ENVIRONMENTAL WORKS

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January 31, 2023

By Email— Daniel.Hedrick@cityutilities.net

Mr. Daniel Hedrick
Director of Environmental Affairs
City Utilities of Springfield, Missouri
PO Box 551
Springfield, MO 65801-0551

Subject: **Submission of Laboratory Results for Fulbright Spring and Fulbright Well #1**
Greenfield Environmental Multistate Trust LLC—Springfield Facility
Former Tronox/Kerr-McGee Facility; 2800 West High St, Springfield, MO
MHWMF Part I Permit No. MOD007129406

Dear Mr. Hedrick:

As an authorized representative of the Greenfield Environmental Multistate Trust LLC, Trustee of the Multistate Environmental Response Trust (the Multistate Trust), I respectfully submit the laboratory results obtained from samples collected on November 17, 2022[1], from the City Utilities of Springfield's (City Utilities) Fulbright Spring and Fulbright Well #1 pursuant to the Missouri Department of Natural Resources (MoDNR)-approved Final Off-Facility Investigation Work Plan (dated July 31, 2019) for the Greenfield Environmental Multistate Trust LLC—Springfield Facility, also known as the Former Tronox/Kerr-McGee Facility located at 2800 West High Street, in Springfield, Missouri with Missouri Hazardous Waste Management Facility (MHWMF) Part I Permit No. MOD007129406.

The samples were submitted to Eurofins Lancaster Laboratories Env, LLC for semivolatile organic compound analysis by U.S. Environmental Protection Agency (EPA) Method 8270D and volatile organic compound analysis by EPA Method 8260C.

A table summarizing the laboratory analytical results (Table 1), the laboratory reports (Level 2 and Level 4), and a data usability summary and validation report are enclosed.

As shown on Table 1, two non-Facility-related chemicals (bis(2-Ethylhexyl)phthalate and di-n-butylphthalate) were detected in samples collected from Fulbright Spring and Fulbright Well #1; however, these compounds were also detected in the laboratory method blank and should be considered biased high. Estimated concentrations[2] of certain Facility-related (see Note 3 and yellow highlighted rows on Table 1) and non-Facility-related chemicals were reported from samples collected from Fulbright Spring and Fulbright Well #1. All estimated concentrations for both Facility-related and non-Facility-related chemicals were below the applicable groundwater protection standards (GWPS).

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[1] The Multistate Trust received the validated data on January 23, 2023.
[2] Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.

Unless City Utilities has any concerns with ongoing sampling in 2023, the Multistate Trust and their contractor, Environmental Works, Inc (EWI), will to coordinate with your staff and continue collect quarterly samples from Fulbright Spring and Fulbright Well #1 in 2023. Because certain Facility-related chemicals were detected during 4Q2022 and had not been detected during the previous quarters, the Multistate Trust will also begin collecting concurrent water quality field parameters[3] (i.e., pH, turbidity, specific conductance, and oxidation-reduction potential [ORP]). This information along with precipitation data will be used to support future data evaluation. The next sampling event is scheduled for the third week of February 2023.

If you have any questions or concerns, please contact me at (417) 616-6539 or bgarcia@environmentalworks.com, or Tasha Lewis, the Multistate Trust Program Director, at (602) 312-6993 or tl@g-etg.com.

Kind regards,

ENVIRONMENTAL WORKS, INC.

Barbara Garcia
Project Manager

Enclosures: Table 1. Summary of Laboratory Analytical Results (Q4-2022)
Laboratory Reports (Level 2 and Level 4)
Data Usability Summary and Validation Report

cc: Cynthia Brooks—Multistate Trust
Tim Davis—Greene County
Jillian Hunt—MoDNR
Craig Kaufman—Multistate Trust
Errin Kemper—City of Springfield
Nathan Kraus—MoDNR
Tasha Lewis—Multistate Trust
Jan Millington—City of Springfield
Richard Nussbaum—MoDNR
Elizabeth Robertson—City Utilities
Abby Sawyer—MoDNR
Robert Wilson—City Utilities

[3] The collection of water quality field parameters is not expected to add any appreciable time to the sample collection time.

Table 1. Summary of Analytical Results (Q4-2022)
Fulbright Spring and Fulbright Well #1
Springfield, Missouri

Station Name	CAS Number	Units	GWPS	Fulbright Spring	Fulbright Spring	Fulbright Well 1	Quality Control Sample	Quality Control Sample	Quality Control Sample
Field Sample ID				DUP-01.112022	FBS010.112022	FBW001.112022	FBW001.FB.112022	Trip Blank	Method Blank[2]
Sample Type				Duplicate Sample	Normal Sample	Normal Sample	Field Blank	Trip Blank	Lab Method Blanks
Sample Date				11/17/22	11/17/22	11/17/22	11/17/22	11/17/22	NA
Volatile Organic Compounds [1]									
1,1,1-Trichloroethane	71-55-6	ug/l		<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
1,1,2,2-Tetrachloroethane	79-34-5	ug/l		<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
1,1,2-Trichloroethane	79-00-5	ug/l		<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
1,1-Dichloroethane	75-34-3	ug/l		<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
1,1-Dichloroethene	75-35-4	ug/l		<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
1,2,4-Trichlorobenzene	120-82-1	ug/l		<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
1,2,4-Trimethylbenzene	95-63-6	ug/l		<1	<1	<1	<1	<1	<1
1,2-Dibromo-3-chloropropane	96-12-8	ug/l		<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
1,2-Dibromoethane	106-93-4	ug/l		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
1,2-Dichlorobenzene	95-50-1	ug/l		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
1,2-Dichloroethane	107-06-2	ug/l		<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
1,2-Dichloropropane	78-87-5	ug/l		<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
1,3,5-Trimethylbenzene	108-67-8	ug/l		<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
1,3-Dichlorobenzene	541-73-1	ug/l		<0.68	<0.68	<0.68	<0.68	<0.68	<0.68
1,4-Dichlorobenzene	106-46-7	ug/l		<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
2-Butanone	78-93-3	ug/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-Hexanone	591-78-6	ug/l		<0.85	<0.85	<0.85	<0.85	<0.85	<0.85
4-Methyl-2-pentanone	108-10-1	ug/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Acetone	67-64-1	ug/l		**0.9 J**	<0.7	<0.7	<0.7	<0.7	<0.7
Benzene[3]	71-43-2	ug/l	5	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Bromodichloromethane	75-27-4	ug/l		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoform	75-25-2	ug/l		<1	<1	<1	<1	<1	<1
Bromomethane	74-83-9	ug/l		<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Carbon Disulfide	75-15-0	ug/l		<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Carbon Tetrachloride	56-23-5	ug/l		<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chlorobenzene	108-90-7	ug/l		<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chloroethane	75-00-3	ug/l		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chloroform	67-66-3	ug/l		<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chloromethane	74-87-3	ug/l		<0.55	<0.55	<0.55	<0.55	<0.55	<0.55
cis-1,2-Dichloroethene	156-59-2	ug/l		<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
cis-1,3-Dichloropropene	10061-01-5	ug/l		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Cyclohexane	110-82-7	ug/l		<1	<1	<1	<1	<1	<1
Dibromochloromethane	124-48-1	ug/l		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Dichlorodifluoromethane	75-71-8	ug/l		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Ethylbenzene[3]	100-41-4	ug/l	700	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4

Table 1. Summary of Analytical Results (Q4-2022)
Fulbright Spring and Fulbright Well #1
Springfield, Missouri

Station Name	CAS Number	Units	GWPS	Fulbright Spring	Fulbright Spring	Fulbright Well 1	Quality Control Sample	Quality Control Sample	Quality Control Sample
Field Sample ID				DUP-01.112022	FBS010.112022	FBW001.112022	FBW001.FB.112022	Trip Blank	Method Blank[2]
Sample Type				Duplicate Sample	Normal Sample	Normal Sample	Field Blank	Trip Blank	Lab Method Blanks
Sample Date				11/17/22	11/17/22	11/17/22	11/17/22	11/17/22	NA
Freon 113	76-13-1	ug/l		<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Isopropylbenzene	98-82-8	ug/l		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methyl Acetate	79-20-9	ug/l		<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Methyl Tertiary Butyl Ether	1634-04-4	ug/l		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylcyclohexane	108-87-2	ug/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Methylene Chloride	75-09-2	ug/l		<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Styrene	100-42-5	ug/l		<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Tetrachloroethene	127-18-4	ug/l		<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Toluene[3]	108-88-3	ug/l	1,000	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
trans-1,2-Dichloroethene	156-60-5	ug/l		<0.7	<0.7	<0.7	<0.7	<0.7	<0.7
trans-1,3-Dichloropropene	10061-02-6	ug/l		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichloroethene	79-01-6	ug/l		<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Trichlorofluoromethane	75-69-4	ug/l		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Vinyl Chloride	75-01-4	ug/l		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Xylenes[3]	1330-20-7	ug/l	10,000	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Semivolatile Organic Compounds[1]									
1,4-Dioxane	123-91-1	ug/l		<0.1	<0.11	<0.1	<0.11	NA	<0.1
1-Methylnaphthalene	90-12-0	ug/l		<0.021	<0.021	<0.021	<0.021	NA	<0.02
2,4-Dimethylphenol[β]	105-67-9	ug/l	540	<3	<3	<3	<3	NA	<3
2,4-Dinitrophenol[β]	51-28-5	ug/l	70	<10	<10	<10	<10	NA	<10
2-Chlorophenol[β]	95-57-8	ug/l	0.5	<0.5	<0.5	<0.5	<0.5	NA	<0.5
2-Methylnaphthalene[3]	91-57-6	ug/l	36	<0.021	<0.021	<0.021	<0.021	NA	<0.02
Acenaphthene[3]	83-32-9	ug/l	1,200	<0.01	<0.011	<0.01	<0.011	NA	<0.01
Acenaphthylene[3]	208-96-8	ug/l		<0.01	<0.011	<0.01	<0.011	NA	<0.01
Anthracene[3]	120-12-7	ug/l	9,600	<0.01	<0.011	**0.013 J**	<0.011	NA	<0.01
Benzo(a)anthracene[3]	56-55-3	ug/l	0.1	<0.01	<0.011	**0.019 J**	<0.011	NA	<0.01
Benzo(a)pyrene[3]	50-32-8	ug/l	0.1	<0.01	<0.011	**0.011 J**	<0.011	NA	<0.01
Benzo(b)fluoranthene[3]	205-99-2	ug/l	0.1	<0.01	<0.011	**0.015 J**	<0.011	NA	<0.01
Benzo(g,h,i)perylene	191-24-2	ug/l		<0.01	<0.011	**0.014 J**	<0.011	NA	<0.01
Benzo(k)fluoranthene[3]	207-08-9	ug/l	0.1	<0.01	<0.011	**0.012 J**	<0.011	NA	<0.01
bis(2-Chloroethyl)ether	111-44-4	ug/l		**0.025 J**	<0.021	<0.021	<0.021	NA	<0.02
bis(2-Ethylhexyl)phthalate	117-81-7	ug/l		**0.66 J ^**	**0.3 J ^**	**0.28 J ^**	**1.1 ^**	NA	**0.0618 J**
Butylbenzylphthalate	85-68-7	ug/l		<0.052	<0.053	<0.051	<0.053	NA	<0.05
Carbazole[3]	86-74-8	ug/l		<0.5	<0.5	<0.5	<0.5	NA	<0.5
Chrysene[3]	218-01-9	ug/l	0.1	<0.01	<0.011	**0.017 J**	<0.011	NA	<0.01

Table 1. Summary of Analytical Results (Q4-2022)
Fulbright Spring and Fulbright Well #1
Springfield, Missouri

Station Name	CAS Number	Units	GWPS	Fulbright Spring	Fulbright Spring	Fulbright Well 1	Quality Control Sample	Quality Control Sample	Quality Control Sample
Field Sample ID				DUP-01.112022	FBS010.112022	FBW001.112022	FBW001.FB.112022	Trip Blank	Method Blank[2]
Sample Type				Duplicate Sample	Normal Sample	Normal Sample	Field Blank	Trip Blank	Lab Method Blanks
Sample Date				11/17/22	11/17/22	11/17/22	11/17/22	11/17/22	NA
Dibenz(a,h)anthracene[3]	53-70-3	ug/l	0.1	<0.021	<0.021	<0.021	<0.021	NA	<0.02
Dibenzofuran[3]	132-64-9	ug/l	7.9	<0.01	<0.011	**0.01 J**	<0.011	NA	<0.01
Diethylphthalate	84-66-2	ug/l		<0.052	<0.053	<0.051	<0.053	NA	<0.05
Dimethylphthalate	131-11-3	ug/l		<0.052	<0.053	<0.051	<0.053	NA	<0.05
Di-n-butylphthalate	84-74-2	ug/l		**1.4 ^**	**0.98 J ^**	**0.6 J ^**	**0.57 J ^**	NA	**0.188 J**
Di-n-octylphthalate	117-84-0	ug/l		<0.052	<0.053	<0.051	<0.053	NA	<0.05
Fluoranthene[3]	206-44-0	ug/l	300	**0.018 J**	**0.03 J**	**0.018 J**	<0.011	NA	<0.01
Fluorene[3]	86-73-7	ug/l	1,300	<0.01	<0.011	**0.012 J**	<0.011	NA	<0.01
Hexachlorobenzene	118-74-1	ug/l		<0.021	<0.021	<0.021	<0.021	NA	<0.02
Indeno(1,2,3-cd)pyrene[3]	193-39-5	ug/l	0.1	<0.021	<0.021	<0.021	<0.021	NA	<0.02
Naphthalene[3]	91-20-3	ug/l	20	<0.031	<0.032	<0.031	<0.032	NA	<0.03
N-Nitrosodimethylamine	62-75-9	ug/l		<0.021	<0.021	<0.021	<0.021	NA	<0.02
Phenanthrene[3]	85-01-8	ug/l		<0.031	<0.032	<0.031	<0.032	NA	<0.03
Phenol[3]	108-95-2	ug/l	300	<0.5	<0.5	<0.5	<0.5	NA	<0.5
Pyrene[3]	129-00-0	ug/l	960	**0.011 J**	**0.022 J**	**0.021 J**	<0.011	NA	<0.01

NOTES:

[1]The Method Detection Limits (MDLs) reported by the laboratory are related to the sample volumes available for extraction. The slightly elevated MDLs are due to smaller sample volumes collected and submitted to the laboratory for analysis.

[2] Laboratory Method Blanks for Volatile Organic Compounds = MB 410-322343/7; for Semi-Volatile Organic Compounds = MB 410-320750/1-A.

[3] Facility-related chemical of concern (yellow highlighting is intentional and to easily identify Facility-related chemicals)

Bold values are detections.

J - Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.

^ = See full lab report for additional details on qualifiers placed on method blanks and laboratory control samples.

ug/L= micrograms per liter

< = less than

GWPS = groundwater protection standards

NA = Not Applicable

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ANALYTICAL REPORT

PREPARED FOR

Attn: Ryley Gardner
Environmental Works, Inc.
1455 East Chestnut Expressway
Springfield, Missouri 65802

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JOB DESCRIPTION

Springfield, MO – OFIWP

JOB NUMBER

410-106360-1

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

See page two for job notes and contact information.

myEOL

Job Notes

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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Authorized for release by
Nicole Brown, Project Manager
Nicole.Brown@et.eurofinsus.com
(717)471-3265

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
cn	Refer to Case Narrative for further detail
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
B	Compound was found in the blank and sample.
cn	Refer to Case Narrative for further detail
F1	MS and/or MSD recovery exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Job ID: 410-106360-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

Job Narrative
410-106360-1

Receipt
The samples were received on 11/18/2022 9:58 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.9°C

Receipt Exceptions
1 40ml HCl vial for the following sample was received broken. FBW001-MSD_112022 (410-106360-3[MSD]).

2 40ml HCl vials for the following sample was received broken. FBW001_FB_112022 (410-106360-4).

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) associated with batch 410-322343 recovered above the upper control limit for Acetone. 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.

GC/MS Semi VOA
Method 8270D_SIM: The continuing calibration verification (CCV) associated with batch 410-321961 recovered above the upper control limit for Butylbenzylphthalate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8270D_SIM: The method blank for preparation batch 410-320750 and analytical batch 410-321961 contained Bis(2-ethylhexyl) phthalate and Di-n-butyl phthalate above the method detection limit (MDL). Associated samples were not re-extracted for this non-conformance because results were less than the reporting limit (RL).

Method 8270D_SIM: Bis(2-ethylhexyl) phthalate and Di-n-butyl phthalate was detected above the reporting limit (RL) in the method blank associated with preparation batch 410-320750 and analytical batch 410-321961 as well as in the following samples: FBS010_112022 (410-106360-1), DUP-01_112022 (410-106360-2), FBW001_112022 (410-106360-3) and FBW001_FB_112022 (410-106360-4). All affected samples were re-extracted outside of holding time. Both sets of data have been reported.

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

Detection Summary

Client: Environmental Works, Inc.
Project/Site: Springfield, MO – OFIWP

Job ID: 410-106360-1

Client Sample ID: FBS010_112022 — Lab Sample ID: 410-106360-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Di-n-butyl phthalate	0.98	J *+ B *1 cn	1.1	0.053	ug/L	1		8270D SIM	Total/NA
Fluoranthene	0.030	J	0.053	0.011	ug/L	1		8270D SIM	Total/NA
Pyrene	0.022	J	0.053	0.011	ug/L	1		8270D SIM	Total/NA
Bis(2-ethylhexyl) phthalate - RA	0.30	J B cn	1.1	0.053	ug/L	1		8270D SIM	Total/NA
Bis(2-ethylhexyl) phthalate - RE	0.17	J H B	1.1	0.056	ug/L	1		8270D SIM	Total/NA
Di-n-butyl phthalate - RE	3.2	H B *+ *1	1.1	0.056	ug/L	1		8270D SIM	Total/NA

Client Sample ID: DUP-01_112022 — Lab Sample ID: 410-106360-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.90	J cn	20	0.70	ug/L	1		8260C	Total/NA
Bis(2-chloroethyl)ether	0.025	J	0.052	0.021	ug/L	1		8270D SIM	Total/NA
Di-n-butyl phthalate	1.4	*+ B *1 cn	1.0	0.052	ug/L	1		8270D SIM	Total/NA
Fluoranthene	0.018	J	0.052	0.010	ug/L	1		8270D SIM	Total/NA
Pyrene	0.011	J	0.052	0.010	ug/L	1		8270D SIM	Total/NA
Bis(2-ethylhexyl) phthalate - RA	0.66	J B cn	1.0	0.052	ug/L	1		8270D SIM	Total/NA
Bis(2-ethylhexyl) phthalate - RE	0.17	J H B	1.1	0.056	ug/L	1		8270D SIM	Total/NA
Di-n-butyl phthalate - RE	3.0	H B *+ *1	1.1	0.056	ug/L	1		8270D SIM	Total/NA

Client Sample ID: FBW001_112022 — Lab Sample ID: 410-106360-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.013	J	0.051	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[a]anthracene	0.019	J	0.051	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[a]pyrene	0.011	J	0.051	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[b]fluoranthene	0.015	J	0.051	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[g,h,i]perylene	0.014	J	0.051	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[k]fluoranthene	0.012	J	0.051	0.010	ug/L	1		8270D SIM	Total/NA
Chrysene	0.017	J	0.051	0.010	ug/L	1		8270D SIM	Total/NA
Dibenzofuran	0.010	J	0.051	0.010	ug/L	1		8270D SIM	Total/NA
Di-n-butyl phthalate	0.60	J *+ F1 B *1 cn	1.0	0.051	ug/L	1		8270D SIM	Total/NA
Fluoranthene	0.018	J	0.051	0.010	ug/L	1		8270D SIM	Total/NA
Fluorene	0.012	J	0.051	0.010	ug/L	1		8270D SIM	Total/NA
Pyrene	0.021	J	0.051	0.010	ug/L	1		8270D SIM	Total/NA
Bis(2-ethylhexyl) phthalate - RA	0.28	J B cn	1.0	0.051	ug/L	1		8270D SIM	Total/NA
Bis(2-ethylhexyl) phthalate - RE	0.16	J H B	1.0	0.051	ug/L	1		8270D SIM	Total/NA
Di-n-butyl phthalate - RE	2.5	H B *+ *1 F1	1.0	0.051	ug/L	1		8270D SIM	Total/NA

Client Sample ID: FBW001_FB_112022 — Lab Sample ID: 410-106360-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Di-n-butyl phthalate	0.57	J *+ B *1 cn	1.1	0.053	ug/L	1		8270D SIM	Total/NA
Bis(2-ethylhexyl) phthalate - RA	1.1	B cn	1.1	0.053	ug/L	1		8270D SIM	Total/NA
Bis(2-ethylhexyl) phthalate - RE	0.74	J H B	1.1	0.053	ug/L	1		8270D SIM	Total/NA
Di-n-butyl phthalate - RE	0.67	J H B *+ *1	1.1	0.053	ug/L	1		8270D SIM	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 410-106360-5

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Environmental Works, Inc.
Project/Site: Springfield, MO – OFIWP

Job ID: 410-106360-1

Client Sample ID: FBS010_112022
Date Collected: 11/17/22 10:33
Date Received: 11/18/22 09:58

Lab Sample ID: 410-106360-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			12/01/22 00:10	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			12/01/22 00:10	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			12/01/22 00:10	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			12/01/22 00:10	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			12/01/22 00:10	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/L			12/01/22 00:10	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			12/01/22 00:10	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.30	ug/L			12/01/22 00:10	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			12/01/22 00:10	1
1,2-Dichlorobenzene	ND		5.0	0.20	ug/L			12/01/22 00:10	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			12/01/22 00:10	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			12/01/22 00:10	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			12/01/22 00:10	1
1,3-Dichlorobenzene	ND		5.0	0.68	ug/L			12/01/22 00:10	1
1,4-Dichlorobenzene	ND		5.0	0.30	ug/L			12/01/22 00:10	1
2-Butanone	ND		10	0.50	ug/L			12/01/22 00:10	1
2-Hexanone	ND		10	0.85	ug/L			12/01/22 00:10	1
4-Methyl-2-pentanone	ND		10	0.50	ug/L			12/01/22 00:10	1
Acetone	ND	cn	20	0.70	ug/L			12/01/22 00:10	1
Benzene	ND		1.0	0.30	ug/L			12/01/22 00:10	1
Bromodichloromethane	ND		1.0	0.20	ug/L			12/01/22 00:10	1
Bromoform	ND		4.0	1.0	ug/L			12/01/22 00:10	1
Bromomethane	ND		1.0	0.30	ug/L			12/01/22 00:10	1
Carbon disulfide	ND		5.0	0.30	ug/L			12/01/22 00:10	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			12/01/22 00:10	1
Chlorobenzene	ND		1.0	0.30	ug/L			12/01/22 00:10	1
Chloroethane	ND		1.0	0.20	ug/L			12/01/22 00:10	1
Chloroform	ND		1.0	0.30	ug/L			12/01/22 00:10	1
Chloromethane	ND		2.0	0.55	ug/L			12/01/22 00:10	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			12/01/22 00:10	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			12/01/22 00:10	1
Cyclohexane	ND		5.0	1.0	ug/L			12/01/22 00:10	1
Dibromochloromethane	ND		1.0	0.20	ug/L			12/01/22 00:10	1
Dichlorodifluoromethane	ND		1.0	0.20	ug/L			12/01/22 00:10	1
Ethylbenzene	ND		1.0	0.40	ug/L			12/01/22 00:10	1
Freon 113	ND		10	0.30	ug/L			12/01/22 00:10	1
Isopropylbenzene	ND		5.0	0.20	ug/L			12/01/22 00:10	1
Methyl acetate	ND		5.0	0.30	ug/L			12/01/22 00:10	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			12/01/22 00:10	1
Methylcyclohexane	ND		5.0	0.50	ug/L			12/01/22 00:10	1
Methylene Chloride	ND		1.0	0.30	ug/L			12/01/22 00:10	1
Styrene	ND		5.0	0.30	ug/L			12/01/22 00:10	1
Tetrachloroethene	ND		1.0	0.30	ug/L			12/01/22 00:10	1
Toluene	ND		1.0	0.20	ug/L			12/01/22 00:10	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			12/01/22 00:10	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			12/01/22 00:10	1
Trichloroethene	ND		1.0	0.30	ug/L			12/01/22 00:10	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			12/01/22 00:10	1
Vinyl chloride	ND		1.0	0.20	ug/L			12/01/22 00:10	1

Client Sample ID: FBS010_112022
Date Collected: 11/17/22 10:33
Date Received: 11/18/22 09:58

Lab Sample ID: 410-106360-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		1.0	0.40	ug/L			12/01/22 00:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*12/01/22 00:10*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*12/01/22 00:10*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*12/01/22 00:10*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*12/01/22 00:10*	*1*

Method: SW846 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.32	0.11	ug/L		11/23/22 17:30	11/30/22 15:32	1
1-Methylnaphthalene	ND		0.053	0.021	ug/L		11/23/22 17:30	11/30/22 15:32	1
2-Methylnaphthalene	ND		0.053	0.021	ug/L		11/23/22 17:30	11/30/22 15:32	1
Acenaphthene	ND		0.053	0.011	ug/L		11/23/22 17:30	11/30/22 15:32	1
Acenaphthylene	ND		0.053	0.011	ug/L		11/23/22 17:30	11/30/22 15:32	1
Anthracene	ND		0.053	0.011	ug/L		11/23/22 17:30	11/30/22 15:32	1
Benzo[a]anthracene	ND		0.053	0.011	ug/L		11/23/22 17:30	11/30/22 15:32	1
Benzo[a]pyrene	ND		0.053	0.011	ug/L		11/23/22 17:30	11/30/22 15:32	1
Benzo[b]fluoranthene	ND		0.053	0.011	ug/L		11/23/22 17:30	11/30/22 15:32	1
Benzo[g,h,i]perylene	ND		0.053	0.011	ug/L		11/23/22 17:30	11/30/22 15:32	1
Benzo[k]fluoranthene	ND		0.053	0.011	ug/L		11/23/22 17:30	11/30/22 15:32	1
Bis(2-chloroethyl)ether	ND		0.053	0.021	ug/L		11/23/22 17:30	11/30/22 15:32	1
Butylbenzylphthalate	ND	cn	1.1	0.053	ug/L		11/23/22 17:30	11/30/22 15:32	1
Chrysene	ND		0.053	0.011	ug/L		11/23/22 17:30	11/30/22 15:32	1
Dibenz(a,h)anthracene	ND		0.053	0.021	ug/L		11/23/22 17:30	11/30/22 15:32	1
Dibenzofuran	ND		0.053	0.011	ug/L		11/23/22 17:30	11/30/22 15:32	1
Diethylphthalate	ND		1.1	0.053	ug/L		11/23/22 17:30	11/30/22 15:32	1
Dimethylphthalate	ND		1.1	0.053	ug/L		11/23/22 17:30	11/30/22 15:32	1
Di-n-butyl phthalate	**0.98**	**J *+ B *1 cn**	1.1	0.053	ug/L		11/23/22 17:30	11/30/22 15:32	1
Di-n-octyl phthalate	ND		1.1	0.053	ug/L		11/23/22 17:30	11/30/22 15:32	1
Fluoranthene	**0.030**	**J**	0.053	0.011	ug/L		11/23/22 17:30	11/30/22 15:32	1
Fluorene	ND		0.053	0.011	ug/L		11/23/22 17:30	11/30/22 15:32	1
Hexachlorobenzene	ND		0.053	0.021	ug/L		11/23/22 17:30	11/30/22 15:32	1
Indeno[1,2,3-cd]pyrene	ND		0.053	0.021	ug/L		11/23/22 17:30	11/30/22 15:32	1
Naphthalene	ND		0.074	0.032	ug/L		11/23/22 17:30	11/30/22 15:32	1
N-Nitrosodimethylamine	ND		0.053	0.021	ug/L		11/23/22 17:30	11/30/22 15:32	1
Phenanthrene	ND		0.074	0.032	ug/L		11/23/22 17:30	11/30/22 15:32	1
Pyrene	**0.022**	**J**	0.053	0.011	ug/L		11/23/22 17:30	11/30/22 15:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Methylnaphthalene-d10 (Surr)	*78*		*36 - 111*	*11/23/22 17:30*	*11/30/22 15:32*	*1*
Benzo(a)pyrene-d12 (Surr)	*73*		*10 - 110*	*11/23/22 17:30*	*11/30/22 15:32*	*1*
Fluoranthene-d10 (Surr)	*71*		*47 - 128*	*11/23/22 17:30*	*11/30/22 15:32*	*1*

Method: SW846 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	**0.30**	**J B cn**	1.1	0.053	ug/L		11/23/22 17:30	12/01/22 07:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Methylnaphthalene-d10 (Surr)	*76*		*36 - 111*	*11/23/22 17:30*	*12/01/22 07:26*	*1*

Client Sample ID: FBS010_112022
Date Collected: 11/17/22 10:33
Date Received: 11/18/22 09:58

Lab Sample ID: 410-106360-1
Matrix: Water

Method: SW846 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) - RA (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*76*		*10 - 110*	*11/23/22 17:30*	*12/01/22 07:26*	*1*
Fluoranthene-d10 (Surr)	*80*		*47 - 128*	*11/23/22 17:30*	*12/01/22 07:26*	*1*

Method: SW846 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND	H	0.33	0.11	ug/L		12/03/22 03:22	12/05/22 10:27	1
1-Methylnaphthalene	ND	H	0.056	0.022	ug/L		12/03/22 03:22	12/05/22 10:27	1
2-Methylnaphthalene	ND	H	0.056	0.022	ug/L		12/03/22 03:22	12/05/22 10:27	1
Acenaphthene	ND	H	0.056	0.011	ug/L		12/03/22 03:22	12/05/22 10:27	1
Acenaphthylene	ND	H	0.056	0.011	ug/L		12/03/22 03:22	12/05/22 10:27	1
Anthracene	ND	H	0.056	0.011	ug/L		12/03/22 03:22	12/05/22 10:27	1
Benzo[a]anthracene	ND	H	0.056	0.011	ug/L		12/03/22 03:22	12/05/22 10:27	1
Benzo[a]pyrene	ND	H	0.056	0.011	ug/L		12/03/22 03:22	12/05/22 10:27	1
Benzo[b]fluoranthene	ND	H	0.056	0.011	ug/L		12/03/22 03:22	12/05/22 10:27	1
Benzo[g,h,i]perylene	ND	H	0.056	0.011	ug/L		12/03/22 03:22	12/05/22 10:27	1
Benzo[k]fluoranthene	ND	H	0.056	0.011	ug/L		12/03/22 03:22	12/05/22 10:27	1
Bis(2-chloroethyl)ether	ND	H	0.056	0.022	ug/L		12/03/22 03:22	12/05/22 10:27	1
Bis(2-ethylhexyl) phthalate	**0.17**	**J H B**	1.1	0.056	ug/L		12/03/22 03:22	12/05/22 10:27	1
Butylbenzylphthalate	ND	H	1.1	0.056	ug/L		12/03/22 03:22	12/05/22 10:27	1
Chrysene	ND	H	0.056	0.011	ug/L		12/03/22 03:22	12/05/22 10:27	1
Dibenz(a,h)anthracene	ND	H	0.056	0.022	ug/L		12/03/22 03:22	12/05/22 10:27	1
Dibenzofuran	ND	H	0.056	0.011	ug/L		12/03/22 03:22	12/05/22 10:27	1
Diethylphthalate	ND	H	1.1	0.056	ug/L		12/03/22 03:22	12/05/22 10:27	1
Dimethylphthalate	ND	H *1	1.1	0.056	ug/L		12/03/22 03:22	12/05/22 10:27	1
Di-n-butyl phthalate	**3.2**	**H B *+ *1**	1.1	0.056	ug/L		12/03/22 03:22	12/05/22 10:27	1
Di-n-octyl phthalate	ND	H	1.1	0.056	ug/L		12/03/22 03:22	12/05/22 10:27	1
Fluoranthene	ND	H	0.056	0.011	ug/L		12/03/22 03:22	12/05/22 10:27	1
Fluorene	ND	H	0.056	0.011	ug/L		12/03/22 03:22	12/05/22 10:27	1
Hexachlorobenzene	ND	H	0.056	0.022	ug/L		12/03/22 03:22	12/05/22 10:27	1
Indeno[1,2,3-cd]pyrene	ND	H	0.056	0.022	ug/L		12/03/22 03:22	12/05/22 10:27	1
Naphthalene	ND	H	0.078	0.033	ug/L		12/03/22 03:22	12/05/22 10:27	1
N-Nitrosodimethylamine	ND	H	0.056	0.022	ug/L		12/03/22 03:22	12/05/22 10:27	1
Phenanthrene	ND	H	0.078	0.033	ug/L		12/03/22 03:22	12/05/22 10:27	1
Pyrene	ND	H	0.056	0.011	ug/L		12/03/22 03:22	12/05/22 10:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Methylnaphthalene-d10 (Surr)	*45*		*36 - 111*	*12/03/22 03:22*	*12/05/22 10:27*	*1*
Benzo(a)pyrene-d12 (Surr)	*68*		*10 - 110*	*12/03/22 03:22*	*12/05/22 10:27*	*1*
Fluoranthene-d10 (Surr)	*77*		*47 - 128*	*12/03/22 03:22*	*12/05/22 10:27*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dimethylphenol	ND		10	3	ug/L		11/23/22 17:30	11/25/22 00:33	1
2,4-Dinitrophenol	ND		30	10	ug/L		11/23/22 17:30	11/25/22 00:33	1
2-Chlorophenol	ND		2	0.5	ug/L		11/23/22 17:30	11/25/22 00:33	1
Carbazole	ND		2	0.5	ug/L		11/23/22 17:30	11/25/22 00:33	1
Phenol	ND		2	0.5	ug/L		11/23/22 17:30	11/25/22 00:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*84*		*10 - 150*	*11/23/22 17:30*	*11/25/22 00:33*	*1*

Client: Environmental Works, Inc.
Project/Site: Springfield, MO – OFIWP

Job ID: 410-106360-1

Client Sample ID: FBS010_112022
Date Collected: 11/17/22 10:33
Date Received: 11/18/22 09:58

Lab Sample ID: 410-106360-1
Matrix: Water

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	77		44 - 120	11/23/22 17:30	11/25/22 00:33	1
2-Fluorophenol (Surr)	43		10 - 120	11/23/22 17:30	11/25/22 00:33	1
Nitrobenzene-d5 (Surr)	77		25 - 125	11/23/22 17:30	11/25/22 00:33	1
Phenol-d5 (Surr)	29		10 - 120	11/23/22 17:30	11/25/22 00:33	1
p-Terphenyl-d14 (Surr)	92		37 - 120	11/23/22 17:30	11/25/22 00:33	1

Client: Environmental Works, Inc.
Project/Site: Springfield, MO – OFIWP

Job ID: 410-106360-1

Client Sample ID: DUP-01_112022
Date Collected: 11/17/22 12:00
Date Received: 11/18/22 09:58

Lab Sample ID: 410-106360-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			12/01/22 00:30	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			12/01/22 00:30	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			12/01/22 00:30	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			12/01/22 00:30	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			12/01/22 00:30	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/L			12/01/22 00:30	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			12/01/22 00:30	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.30	ug/L			12/01/22 00:30	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			12/01/22 00:30	1
1,2-Dichlorobenzene	ND		5.0	0.20	ug/L			12/01/22 00:30	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			12/01/22 00:30	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			12/01/22 00:30	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			12/01/22 00:30	1
1,3-Dichlorobenzene	ND		5.0	0.68	ug/L			12/01/22 00:30	1
1,4-Dichlorobenzene	ND		5.0	0.30	ug/L			12/01/22 00:30	1
2-Butanone	ND		10	0.50	ug/L			12/01/22 00:30	1
2-Hexanone	ND		10	0.85	ug/L			12/01/22 00:30	1
4-Methyl-2-pentanone	ND		10	0.50	ug/L			12/01/22 00:30	1
Acetone	**0.90**	**J cn**	20	0.70	ug/L			12/01/22 00:30	1
Benzene	ND		1.0	0.30	ug/L			12/01/22 00:30	1
Bromodichloromethane	ND		1.0	0.20	ug/L			12/01/22 00:30	1
Bromoform	ND		4.0	1.0	ug/L			12/01/22 00:30	1
Bromomethane	ND		1.0	0.30	ug/L			12/01/22 00:30	1
Carbon disulfide	ND		5.0	0.30	ug/L			12/01/22 00:30	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			12/01/22 00:30	1
Chlorobenzene	ND		1.0	0.30	ug/L			12/01/22 00:30	1
Chloroethane	ND		1.0	0.20	ug/L			12/01/22 00:30	1
Chloroform	ND		1.0	0.30	ug/L			12/01/22 00:30	1
Chloromethane	ND		2.0	0.55	ug/L			12/01/22 00:30	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			12/01/22 00:30	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			12/01/22 00:30	1
Cyclohexane	ND		5.0	1.0	ug/L			12/01/22 00:30	1
Dibromochloromethane	ND		1.0	0.20	ug/L			12/01/22 00:30	1
Dichlorodifluoromethane	ND		1.0	0.20	ug/L			12/01/22 00:30	1
Ethylbenzene	ND		1.0	0.40	ug/L			12/01/22 00:30	1
Freon 113	ND		10	0.30	ug/L			12/01/22 00:30	1
Isopropylbenzene	ND		5.0	0.20	ug/L			12/01/22 00:30	1
Methyl acetate	ND		5.0	0.30	ug/L			12/01/22 00:30	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			12/01/22 00:30	1
Methylcyclohexane	ND		5.0	0.50	ug/L			12/01/22 00:30	1
Methylene Chloride	ND		1.0	0.30	ug/L			12/01/22 00:30	1
Styrene	ND		5.0	0.30	ug/L			12/01/22 00:30	1
Tetrachloroethene	ND		1.0	0.30	ug/L			12/01/22 00:30	1
Toluene	ND		1.0	0.20	ug/L			12/01/22 00:30	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			12/01/22 00:30	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			12/01/22 00:30	1
Trichloroethene	ND		1.0	0.30	ug/L			12/01/22 00:30	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			12/01/22 00:30	1
Vinyl chloride	ND		1.0	0.20	ug/L			12/01/22 00:30	1

Client Sample ID: DUP-01_112022
Date Collected: 11/17/22 12:00
Date Received: 11/18/22 09:58

Lab Sample ID: 410-106360-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		1.0	0.40	ug/L			12/01/22 00:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 120*		*12/01/22 00:30*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*12/01/22 00:30*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*12/01/22 00:30*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*12/01/22 00:30*	*1*

Method: SW846 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.31	0.10	ug/L		11/23/22 17:30	11/30/22 15:54	1
1-Methylnaphthalene	ND		0.052	0.021	ug/L		11/23/22 17:30	11/30/22 15:54	1
2-Methylnaphthalene	ND		0.052	0.021	ug/L		11/23/22 17:30	11/30/22 15:54	1
Acenaphthene	ND		0.052	0.010	ug/L		11/23/22 17:30	11/30/22 15:54	1
Acenaphthylene	ND		0.052	0.010	ug/L		11/23/22 17:30	11/30/22 15:54	1
Anthracene	ND		0.052	0.010	ug/L		11/23/22 17:30	11/30/22 15:54	1
Benzo[a]anthracene	ND		0.052	0.010	ug/L		11/23/22 17:30	11/30/22 15:54	1
Benzo[a]pyrene	ND		0.052	0.010	ug/L		11/23/22 17:30	11/30/22 15:54	1
Benzo[b]fluoranthene	ND		0.052	0.010	ug/L		11/23/22 17:30	11/30/22 15:54	1
Benzo[g,h,i]perylene	ND		0.052	0.010	ug/L		11/23/22 17:30	11/30/22 15:54	1
Benzo[k]fluoranthene	ND		0.052	0.010	ug/L		11/23/22 17:30	11/30/22 15:54	1
Bis(2-chloroethyl)ether	**0.025**	**J**	0.052	0.021	ug/L		11/23/22 17:30	11/30/22 15:54	1
Butylbenzylphthalate	ND	cn	1.0	0.052	ug/L		11/23/22 17:30	11/30/22 15:54	1
Chrysene	ND		0.052	0.010	ug/L		11/23/22 17:30	11/30/22 15:54	1
Dibenz(a,h)anthracene	ND		0.052	0.021	ug/L		11/23/22 17:30	11/30/22 15:54	1
Dibenzofuran	ND		0.052	0.010	ug/L		11/23/22 17:30	11/30/22 15:54	1
Diethylphthalate	ND		1.0	0.052	ug/L		11/23/22 17:30	11/30/22 15:54	1
Dimethylphthalate	ND		1.0	0.052	ug/L		11/23/22 17:30	11/30/22 15:54	1
Di-n-butyl phthalate	**1.4**	***+ B *1 cn**	1.0	0.052	ug/L		11/23/22 17:30	11/30/22 15:54	1
Di-n-octyl phthalate	ND		1.0	0.052	ug/L		11/23/22 17:30	11/30/22 15:54	1
Fluoranthene	**0.018**	**J**	0.052	0.010	ug/L		11/23/22 17:30	11/30/22 15:54	1
Fluorene	ND		0.052	0.010	ug/L		11/23/22 17:30	11/30/22 15:54	1
Hexachlorobenzene	ND		0.052	0.021	ug/L		11/23/22 17:30	11/30/22 15:54	1
Indeno[1,2,3-cd]pyrene	ND		0.052	0.021	ug/L		11/23/22 17:30	11/30/22 15:54	1
Naphthalene	ND		0.073	0.031	ug/L		11/23/22 17:30	11/30/22 15:54	1
N-Nitrosodimethylamine	ND		0.052	0.021	ug/L		11/23/22 17:30	11/30/22 15:54	1
Phenanthrene	ND		0.073	0.031	ug/L		11/23/22 17:30	11/30/22 15:54	1
Pyrene	**0.011**	**J**	0.052	0.010	ug/L		11/23/22 17:30	11/30/22 15:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Methylnaphthalene-d10 (Surr)	*82*		*36 - 111*	*11/23/22 17:30*	*11/30/22 15:54*	*1*
Benzo(a)pyrene-d12 (Surr)	*73*		*10 - 110*	*11/23/22 17:30*	*11/30/22 15:54*	*1*
Fluoranthene-d10 (Surr)	*70*		*47 - 128*	*11/23/22 17:30*	*11/30/22 15:54*	*1*

Method: SW846 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	**0.66**	**J B cn**	1.0	0.052	ug/L		11/23/22 17:30	12/01/22 07:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Methylnaphthalene-d10 (Surr)	*76*		*36 - 111*	*11/23/22 17:30*	*12/01/22 07:47*	*1*
Benzo(a)pyrene-d12 (Surr)	*75*		*10 - 110*	*11/23/22 17:30*	*12/01/22 07:47*	*1*

Client Sample ID: DUP-01_112022
Date Collected: 11/17/22 12:00
Date Received: 11/18/22 09:58

Lab Sample ID: 410-106360-2
Matrix: Water

Method: SW846 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) - RA (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Fluoranthene-d10 (Surr)	*82*		*47 - 128*	*11/23/22 17:30*	*12/01/22 07:47*	*1*

Method: SW846 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND	H	0.33	0.11	ug/L		12/03/22 03:22	12/05/22 10:49	1
1-Methylnaphthalene	ND	H	0.056	0.022	ug/L		12/03/22 03:22	12/05/22 10:49	1
2-Methylnaphthalene	ND	H	0.056	0.022	ug/L		12/03/22 03:22	12/05/22 10:49	1
Acenaphthene	ND	H	0.056	0.011	ug/L		12/03/22 03:22	12/05/22 10:49	1
Acenaphthylene	ND	H	0.056	0.011	ug/L		12/03/22 03:22	12/05/22 10:49	1
Anthracene	ND	H	0.056	0.011	ug/L		12/03/22 03:22	12/05/22 10:49	1
Benzo[a]anthracene	ND	H	0.056	0.011	ug/L		12/03/22 03:22	12/05/22 10:49	1
Benzo[a]pyrene	ND	H	0.056	0.011	ug/L		12/03/22 03:22	12/05/22 10:49	1
Benzo[b]fluoranthene	ND	H	0.056	0.011	ug/L		12/03/22 03:22	12/05/22 10:49	1
Benzo[g,h,i]perylene	ND	H	0.056	0.011	ug/L		12/03/22 03:22	12/05/22 10:49	1
Benzo[k]fluoranthene	ND	H	0.056	0.011	ug/L		12/03/22 03:22	12/05/22 10:49	1
Bis(2-chloroethyl)ether	ND	H	0.056	0.022	ug/L		12/03/22 03:22	12/05/22 10:49	1
Bis(2-ethylhexyl) phthalate	**0.17**	**J H B**	1.1	0.056	ug/L		12/03/22 03:22	12/05/22 10:49	1
Butylbenzylphthalate	ND	H	1.1	0.056	ug/L		12/03/22 03:22	12/05/22 10:49	1
Chrysene	ND	H	0.056	0.011	ug/L		12/03/22 03:22	12/05/22 10:49	1
Dibenz(a,h)anthracene	ND	H	0.056	0.022	ug/L		12/03/22 03:22	12/05/22 10:49	1
Dibenzofuran	ND	H	0.056	0.011	ug/L		12/03/22 03:22	12/05/22 10:49	1
Diethylphthalate	ND	H	1.1	0.056	ug/L		12/03/22 03:22	12/05/22 10:49	1
Dimethylphthalate	ND	H *1	1.1	0.056	ug/L		12/03/22 03:22	12/05/22 10:49	1
Di-n-butyl phthalate	**3.0**	**H B *+ *1**	1.1	0.056	ug/L		12/03/22 03:22	12/05/22 10:49	1
Di-n-octyl phthalate	ND	H	1.1	0.056	ug/L		12/03/22 03:22	12/05/22 10:49	1
Fluoranthene	ND	H	0.056	0.011	ug/L		12/03/22 03:22	12/05/22 10:49	1
Fluorene	ND	H	0.056	0.011	ug/L		12/03/22 03:22	12/05/22 10:49	1
Hexachlorobenzene	ND	H	0.056	0.022	ug/L		12/03/22 03:22	12/05/22 10:49	1
Indeno[1,2,3-cd]pyrene	ND	H	0.056	0.022	ug/L		12/03/22 03:22	12/05/22 10:49	1
Naphthalene	ND	H	0.078	0.033	ug/L		12/03/22 03:22	12/05/22 10:49	1
N-Nitrosodimethylamine	ND	H	0.056	0.022	ug/L		12/03/22 03:22	12/05/22 10:49	1
Phenanthrene	ND	H	0.078	0.033	ug/L		12/03/22 03:22	12/05/22 10:49	1
Pyrene	ND	H	0.056	0.011	ug/L		12/03/22 03:22	12/05/22 10:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene-d10 (Surr)	*54*		*36 - 111*	*12/03/22 03:22*	*12/05/22 10:49*	*1*
Benzo(a)pyrene-d12 (Surr)	*72*		*10 - 110*	*12/03/22 03:22*	*12/05/22 10:49*	*1*
Fluoranthene-d10 (Surr)	*79*		*47 - 128*	*12/03/22 03:22*	*12/05/22 10:49*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dimethylphenol	ND		10	3	ug/L		11/23/22 17:30	11/25/22 00:53	1
2,4-Dinitrophenol	ND		30	10	ug/L		11/23/22 17:30	11/25/22 00:53	1
2-Chlorophenol	ND		2	0.5	ug/L		11/23/22 17:30	11/25/22 00:53	1
Carbazole	ND		2	0.5	ug/L		11/23/22 17:30	11/25/22 00:53	1
Phenol	ND		2	0.5	ug/L		11/23/22 17:30	11/25/22 00:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	*90*		*10 - 150*	*11/23/22 17:30*	*11/25/22 00:53*	*1*
2-Fluorobiphenyl (Surr)	*81*		*44 - 120*	*11/23/22 17:30*	*11/25/22 00:53*	*1*

Client: Environmental Works, Inc.
Project/Site: Springfield, MO – OFIWP

Job ID: 410-106360-1

Client Sample ID: DUP-01_112022
Date Collected: 11/17/22 12:00
Date Received: 11/18/22 09:58

Lab Sample ID: 410-106360-2
Matrix: Water

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	47		10 - 120	11/23/22 17:30	11/25/22 00:53	1
Nitrobenzene-d5 (Surr)	81		25 - 125	11/23/22 17:30	11/25/22 00:53	1
Phenol-d5 (Surr)	31		10 - 120	11/23/22 17:30	11/25/22 00:53	1
p-Terphenyl-d14 (Surr)	97		37 - 120	11/23/22 17:30	11/25/22 00:53	1

Client: Environmental Works, Inc.
Project/Site: Springfield, MO – OFIWP

Job ID: 410-106360-1

Client Sample ID: FBW001_112022
Date Collected: 11/17/22 10:20
Date Received: 11/18/22 09:58

Lab Sample ID: 410-106360-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			11/30/22 22:51	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			11/30/22 22:51	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			11/30/22 22:51	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			11/30/22 22:51	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			11/30/22 22:51	1
1,2,4-Trichlorobenzene	ND	F1	5.0	0.30	ug/L			11/30/22 22:51	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			11/30/22 22:51	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.30	ug/L			11/30/22 22:51	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			11/30/22 22:51	1
1,2-Dichlorobenzene	ND		5.0	0.20	ug/L			11/30/22 22:51	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			11/30/22 22:51	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			11/30/22 22:51	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			11/30/22 22:51	1
1,3-Dichlorobenzene	ND		5.0	0.68	ug/L			11/30/22 22:51	1
1,4-Dichlorobenzene	ND		5.0	0.30	ug/L			11/30/22 22:51	1
2-Butanone	ND		10	0.50	ug/L			11/30/22 22:51	1
2-Hexanone	ND		10	0.85	ug/L			11/30/22 22:51	1
4-Methyl-2-pentanone	ND		10	0.50	ug/L			11/30/22 22:51	1
Acetone	ND	cn	20	0.70	ug/L			11/30/22 22:51	1
Benzene	ND		1.0	0.30	ug/L			11/30/22 22:51	1
Bromodichloromethane	ND		1.0	0.20	ug/L			11/30/22 22:51	1
Bromoform	ND		4.0	1.0	ug/L			11/30/22 22:51	1
Bromomethane	ND		1.0	0.30	ug/L			11/30/22 22:51	1
Carbon disulfide	ND		5.0	0.30	ug/L			11/30/22 22:51	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			11/30/22 22:51	1
Chlorobenzene	ND		1.0	0.30	ug/L			11/30/22 22:51	1
Chloroethane	ND		1.0	0.20	ug/L			11/30/22 22:51	1
Chloroform	ND		1.0	0.30	ug/L			11/30/22 22:51	1
Chloromethane	ND		2.0	0.55	ug/L			11/30/22 22:51	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			11/30/22 22:51	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			11/30/22 22:51	1
Cyclohexane	ND		5.0	1.0	ug/L			11/30/22 22:51	1
Dibromochloromethane	ND		1.0	0.20	ug/L			11/30/22 22:51	1
Dichlorodifluoromethane	ND		1.0	0.20	ug/L			11/30/22 22:51	1
Ethylbenzene	ND		1.0	0.40	ug/L			11/30/22 22:51	1
Freon 113	ND		10	0.30	ug/L			11/30/22 22:51	1
Isopropylbenzene	ND	F1	5.0	0.20	ug/L			11/30/22 22:51	1
Methyl acetate	ND	F2	5.0	0.30	ug/L			11/30/22 22:51	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			11/30/22 22:51	1
Methylcyclohexane	ND	F1	5.0	0.50	ug/L			11/30/22 22:51	1
Methylene Chloride	ND		1.0	0.30	ug/L			11/30/22 22:51	1
Styrene	ND		5.0	0.30	ug/L			11/30/22 22:51	1
Tetrachloroethene	ND	F1	1.0	0.30	ug/L			11/30/22 22:51	1
Toluene	ND		1.0	0.20	ug/L			11/30/22 22:51	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			11/30/22 22:51	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			11/30/22 22:51	1
Trichloroethene	ND		1.0	0.30	ug/L			11/30/22 22:51	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			11/30/22 22:51	1
Vinyl chloride	ND		1.0	0.20	ug/L			11/30/22 22:51	1

Client Sample ID: FBW001_112022
Date Collected: 11/17/22 10:20
Date Received: 11/18/22 09:58

Lab Sample ID: 410-106360-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		1.0	0.40	ug/L			11/30/22 22:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*80 - 120*		*11/30/22 22:51*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*11/30/22 22:51*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*11/30/22 22:51*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*11/30/22 22:51*	*1*

Method: SW846 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.31	0.10	ug/L		11/23/22 17:30	11/30/22 09:38	1
1-Methylnaphthalene	ND		0.051	0.021	ug/L		11/23/22 17:30	11/30/22 09:38	1
2-Methylnaphthalene	ND		0.051	0.021	ug/L		11/23/22 17:30	11/30/22 09:38	1
Acenaphthene	ND		0.051	0.010	ug/L		11/23/22 17:30	11/30/22 09:38	1
Acenaphthylene	ND		0.051	0.010	ug/L		11/23/22 17:30	11/30/22 09:38	1
Anthracene	**0.013**	**J**	0.051	0.010	ug/L		11/23/22 17:30	11/30/22 09:38	1
Benzo[a]anthracene	**0.019**	**J**	0.051	0.010	ug/L		11/23/22 17:30	11/30/22 09:38	1
Benzo[a]pyrene	**0.011**	**J**	0.051	0.010	ug/L		11/23/22 17:30	11/30/22 09:38	1
Benzo[b]fluoranthene	**0.015**	**J**	0.051	0.010	ug/L		11/23/22 17:30	11/30/22 09:38	1
Benzo[g,h,i]perylene	**0.014**	**J**	0.051	0.010	ug/L		11/23/22 17:30	11/30/22 09:38	1
Benzo[k]fluoranthene	**0.012**	**J**	0.051	0.010	ug/L		11/23/22 17:30	11/30/22 09:38	1
Bis(2-chloroethyl)ether	ND		0.051	0.021	ug/L		11/23/22 17:30	11/30/22 09:38	1
Butylbenzylphthalate	ND	cn	1.0	0.051	ug/L		11/23/22 17:30	11/30/22 09:38	1
Chrysene	**0.017**	**J**	0.051	0.010	ug/L		11/23/22 17:30	11/30/22 09:38	1
Dibenz(a,h)anthracene	ND		0.051	0.021	ug/L		11/23/22 17:30	11/30/22 09:38	1
Dibenzofuran	**0.010**	**J**	0.051	0.010	ug/L		11/23/22 17:30	11/30/22 09:38	1
Diethylphthalate	ND		1.0	0.051	ug/L		11/23/22 17:30	11/30/22 09:38	1
Dimethylphthalate	ND		1.0	0.051	ug/L		11/23/22 17:30	11/30/22 09:38	1
Di-n-butyl phthalate	**0.60**	**J *+ F1 B *1 cn**	1.0	0.051	ug/L		11/23/22 17:30	11/30/22 09:38	1
Di-n-octyl phthalate	ND		1.0	0.051	ug/L		11/23/22 17:30	11/30/22 09:38	1
Fluoranthene	**0.018**	**J**	0.051	0.010	ug/L		11/23/22 17:30	11/30/22 09:38	1
Fluorene	**0.012**	**J**	0.051	0.010	ug/L		11/23/22 17:30	11/30/22 09:38	1
Hexachlorobenzene	ND		0.051	0.021	ug/L		11/23/22 17:30	11/30/22 09:38	1
Indeno[1,2,3-cd]pyrene	ND		0.051	0.021	ug/L		11/23/22 17:30	11/30/22 09:38	1
Naphthalene	ND		0.072	0.031	ug/L		11/23/22 17:30	11/30/22 09:38	1
N-Nitrosodimethylamine	ND		0.051	0.021	ug/L		11/23/22 17:30	11/30/22 09:38	1
Phenanthrene	ND		0.072	0.031	ug/L		11/23/22 17:30	11/30/22 09:38	1
Pyrene	**0.021**	**J**	0.051	0.010	ug/L		11/23/22 17:30	11/30/22 09:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Methylnaphthalene-d10 (Surr)	*71*		*36 - 111*	*11/23/22 17:30*	*11/30/22 09:38*	*1*
Benzo(a)pyrene-d12 (Surr)	*54*		*10 - 110*	*11/23/22 17:30*	*11/30/22 09:38*	*1*
Fluoranthene-d10 (Surr)	*63*		*47 - 128*	*11/23/22 17:30*	*11/30/22 09:38*	*1*

Method: SW846 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	**0.28**	**J B cn**	1.0	0.051	ug/L		11/23/22 17:30	12/01/22 06:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Methylnaphthalene-d10 (Surr)	*65*		*36 - 111*	*11/23/22 17:30*	*12/01/22 06:22*	*1*

Client Sample ID: FBW001_112022
Date Collected: 11/17/22 10:20
Date Received: 11/18/22 09:58

Lab Sample ID: 410-106360-3
Matrix: Water

Method: SW846 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) - RA (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Benzo(a)pyrene-d12 (Surr)	*55*		*10 - 110*	*11/23/22 17:30*	*12/01/22 06:22*	*1*
Fluoranthene-d10 (Surr)	*70*		*47 - 128*	*11/23/22 17:30*	*12/01/22 06:22*	*1*

Method: SW846 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND	H	0.31	0.10	ug/L		12/03/22 03:22	12/05/22 11:11	1
1-Methylnaphthalene	ND	H	0.051	0.020	ug/L		12/03/22 03:22	12/05/22 11:11	1
2-Methylnaphthalene	ND	H	0.051	0.020	ug/L		12/03/22 03:22	12/05/22 11:11	1
Acenaphthene	ND	H	0.051	0.010	ug/L		12/03/22 03:22	12/05/22 11:11	1
Acenaphthylene	ND	H	0.051	0.010	ug/L		12/03/22 03:22	12/05/22 11:11	1
Anthracene	ND	H	0.051	0.010	ug/L		12/03/22 03:22	12/05/22 11:11	1
Benzo[a]anthracene	ND	H	0.051	0.010	ug/L		12/03/22 03:22	12/05/22 11:11	1
Benzo[a]pyrene	ND	H	0.051	0.010	ug/L		12/03/22 03:22	12/05/22 11:11	1
Benzo[b]fluoranthene	ND	H	0.051	0.010	ug/L		12/03/22 03:22	12/05/22 11:11	1
Benzo[g,h,i]perylene	ND	H	0.051	0.010	ug/L		12/03/22 03:22	12/05/22 11:11	1
Benzo[k]fluoranthene	ND	H	0.051	0.010	ug/L		12/03/22 03:22	12/05/22 11:11	1
Bis(2-chloroethyl)ether	ND	H F1	0.051	0.020	ug/L		12/03/22 03:22	12/05/22 11:11	1
Bis(2-ethylhexyl) phthalate	**0.16**	**J H B**	1.0	0.051	ug/L		12/03/22 03:22	12/05/22 11:11	1
Butylbenzylphthalate	ND	H	1.0	0.051	ug/L		12/03/22 03:22	12/05/22 11:11	1
Chrysene	ND	H	0.051	0.010	ug/L		12/03/22 03:22	12/05/22 11:11	1
Dibenz(a,h)anthracene	ND	H	0.051	0.020	ug/L		12/03/22 03:22	12/05/22 11:11	1
Dibenzofuran	ND	H	0.051	0.010	ug/L		12/03/22 03:22	12/05/22 11:11	1
Diethylphthalate	ND	H	1.0	0.051	ug/L		12/03/22 03:22	12/05/22 11:11	1
Dimethylphthalate	ND	H *1	1.0	0.051	ug/L		12/03/22 03:22	12/05/22 11:11	1
Di-n-butyl phthalate	**2.5**	**H B *+ *1 F1**	1.0	0.051	ug/L		12/03/22 03:22	12/05/22 11:11	1
Di-n-octyl phthalate	ND	H	1.0	0.051	ug/L		12/03/22 03:22	12/05/22 11:11	1
Fluoranthene	ND	H	0.051	0.010	ug/L		12/03/22 03:22	12/05/22 11:11	1
Fluorene	ND	H	0.051	0.010	ug/L		12/03/22 03:22	12/05/22 11:11	1
Hexachlorobenzene	ND	H	0.051	0.020	ug/L		12/03/22 03:22	12/05/22 11:11	1
Indeno[1,2,3-cd]pyrene	ND	H	0.051	0.020	ug/L		12/03/22 03:22	12/05/22 11:11	1
Naphthalene	ND	H	0.072	0.031	ug/L		12/03/22 03:22	12/05/22 11:11	1
N-Nitrosodimethylamine	ND	H	0.051	0.020	ug/L		12/03/22 03:22	12/05/22 11:11	1
Phenanthrene	ND	H	0.072	0.031	ug/L		12/03/22 03:22	12/05/22 11:11	1
Pyrene	ND	H	0.051	0.010	ug/L		12/03/22 03:22	12/05/22 11:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene-d10 (Surr)	*41*		*36 - 111*	*12/03/22 03:22*	*12/05/22 11:11*	*1*
Benzo(a)pyrene-d12 (Surr)	*65*		*10 - 110*	*12/03/22 03:22*	*12/05/22 11:11*	*1*
Fluoranthene-d10 (Surr)	*57*		*47 - 128*	*12/03/22 03:22*	*12/05/22 11:11*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dimethylphenol	ND		10	3	ug/L		11/23/22 17:30	11/24/22 22:13	1
2,4-Dinitrophenol	ND		30	10	ug/L		11/23/22 17:30	11/24/22 22:13	1
2-Chlorophenol	ND		2	0.5	ug/L		11/23/22 17:30	11/24/22 22:13	1
Carbazole	ND		2	0.5	ug/L		11/23/22 17:30	11/24/22 22:13	1
Phenol	ND		2	0.5	ug/L		11/23/22 17:30	11/24/22 22:13	1

Client: Environmental Works, Inc.
Project/Site: Springfield, MO – OFIWP

Job ID: 410-106360-1

Client Sample ID: FBW001_112022
Date Collected: 11/17/22 10:20
Date Received: 11/18/22 09:58

Lab Sample ID: 410-106360-3
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	83		10 - 150	11/23/22 17:30	11/24/22 22:13	1
2-Fluorobiphenyl (Surr)	74		44 - 120	11/23/22 17:30	11/24/22 22:13	1
2-Fluorophenol (Surr)	34		10 - 120	11/23/22 17:30	11/24/22 22:13	1
Nitrobenzene-d5 (Surr)	75		25 - 125	11/23/22 17:30	11/24/22 22:13	1
Phenol-d5 (Surr)	22		10 - 120	11/23/22 17:30	11/24/22 22:13	1
p-Terphenyl-d14 (Surr)	71		37 - 120	11/23/22 17:30	11/24/22 22:13	1

Client: Environmental Works, Inc.
Project/Site: Springfield, MO – OFIWP

Job ID: 410-106360-1

Client Sample ID: FBW001_FB_112022
Date Collected: 11/17/22 10:14
Date Received: 11/18/22 09:58

Lab Sample ID: 410-106360-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			11/30/22 21:33	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			11/30/22 21:33	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			11/30/22 21:33	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			11/30/22 21:33	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			11/30/22 21:33	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/L			11/30/22 21:33	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			11/30/22 21:33	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.30	ug/L			11/30/22 21:33	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			11/30/22 21:33	1
1,2-Dichlorobenzene	ND		5.0	0.20	ug/L			11/30/22 21:33	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			11/30/22 21:33	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			11/30/22 21:33	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			11/30/22 21:33	1
1,3-Dichlorobenzene	ND		5.0	0.68	ug/L			11/30/22 21:33	1
1,4-Dichlorobenzene	ND		5.0	0.30	ug/L			11/30/22 21:33	1
2-Butanone	ND		10	0.50	ug/L			11/30/22 21:33	1
2-Hexanone	ND		10	0.85	ug/L			11/30/22 21:33	1
4-Methyl-2-pentanone	ND		10	0.50	ug/L			11/30/22 21:33	1
Acetone	ND	cn	20	0.70	ug/L			11/30/22 21:33	1
Benzene	ND		1.0	0.30	ug/L			11/30/22 21:33	1
Bromodichloromethane	ND		1.0	0.20	ug/L			11/30/22 21:33	1
Bromoform	ND		4.0	1.0	ug/L			11/30/22 21:33	1
Bromomethane	ND		1.0	0.30	ug/L			11/30/22 21:33	1
Carbon disulfide	ND		5.0	0.30	ug/L			11/30/22 21:33	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			11/30/22 21:33	1
Chlorobenzene	ND		1.0	0.30	ug/L			11/30/22 21:33	1
Chloroethane	ND		1.0	0.20	ug/L			11/30/22 21:33	1
Chloroform	ND		1.0	0.30	ug/L			11/30/22 21:33	1
Chloromethane	ND		2.0	0.55	ug/L			11/30/22 21:33	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			11/30/22 21:33	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			11/30/22 21:33	1
Cyclohexane	ND		5.0	1.0	ug/L			11/30/22 21:33	1
Dibromochloromethane	ND		1.0	0.20	ug/L			11/30/22 21:33	1
Dichlorodifluoromethane	ND		1.0	0.20	ug/L			11/30/22 21:33	1
Ethylbenzene	ND		1.0	0.40	ug/L			11/30/22 21:33	1
Freon 113	ND		10	0.30	ug/L			11/30/22 21:33	1
Isopropylbenzene	ND		5.0	0.20	ug/L			11/30/22 21:33	1
Methyl acetate	ND		5.0	0.30	ug/L			11/30/22 21:33	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			11/30/22 21:33	1
Methylcyclohexane	ND		5.0	0.50	ug/L			11/30/22 21:33	1
Methylene Chloride	ND		1.0	0.30	ug/L			11/30/22 21:33	1
Styrene	ND		5.0	0.30	ug/L			11/30/22 21:33	1
Tetrachloroethene	ND		1.0	0.30	ug/L			11/30/22 21:33	1
Toluene	ND		1.0	0.20	ug/L			11/30/22 21:33	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			11/30/22 21:33	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			11/30/22 21:33	1
Trichloroethene	ND		1.0	0.30	ug/L			11/30/22 21:33	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			11/30/22 21:33	1
Vinyl chloride	ND		1.0	0.20	ug/L			11/30/22 21:33	1

Client Sample ID: FBW001_FB_112022
Date Collected: 11/17/22 10:14
Date Received: 11/18/22 09:58

Lab Sample ID: 410-106360-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		1.0	0.40	ug/L			11/30/22 21:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*11/30/22 21:33*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*11/30/22 21:33*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*11/30/22 21:33*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*11/30/22 21:33*	*1*

Method: SW846 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.32	0.11	ug/L		11/23/22 17:30	11/30/22 16:15	1
1-Methylnaphthalene	ND		0.053	0.021	ug/L		11/23/22 17:30	11/30/22 16:15	1
2-Methylnaphthalene	ND		0.053	0.021	ug/L		11/23/22 17:30	11/30/22 16:15	1
Acenaphthene	ND		0.053	0.011	ug/L		11/23/22 17:30	11/30/22 16:15	1
Acenaphthylene	ND		0.053	0.011	ug/L		11/23/22 17:30	11/30/22 16:15	1
Anthracene	ND		0.053	0.011	ug/L		11/23/22 17:30	11/30/22 16:15	1
Benzo[a]anthracene	ND		0.053	0.011	ug/L		11/23/22 17:30	11/30/22 16:15	1
Benzo[a]pyrene	ND		0.053	0.011	ug/L		11/23/22 17:30	11/30/22 16:15	1
Benzo[b]fluoranthene	ND		0.053	0.011	ug/L		11/23/22 17:30	11/30/22 16:15	1
Benzo[g,h,i]perylene	ND		0.053	0.011	ug/L		11/23/22 17:30	11/30/22 16:15	1
Benzo[k]fluoranthene	ND		0.053	0.011	ug/L		11/23/22 17:30	11/30/22 16:15	1
Bis(2-chloroethyl)ether	ND		0.053	0.021	ug/L		11/23/22 17:30	11/30/22 16:15	1
Butylbenzylphthalate	ND	cn	1.1	0.053	ug/L		11/23/22 17:30	11/30/22 16:15	1
Chrysene	ND		0.053	0.011	ug/L		11/23/22 17:30	11/30/22 16:15	1
Dibenz(a,h)anthracene	ND		0.053	0.021	ug/L		11/23/22 17:30	11/30/22 16:15	1
Dibenzofuran	ND		0.053	0.011	ug/L		11/23/22 17:30	11/30/22 16:15	1
Diethylphthalate	ND		1.1	0.053	ug/L		11/23/22 17:30	11/30/22 16:15	1
Dimethylphthalate	ND		1.1	0.053	ug/L		11/23/22 17:30	11/30/22 16:15	1
Di-n-butyl phthalate	**0.57**	**J *+ B *1 cn**	1.1	0.053	ug/L		11/23/22 17:30	11/30/22 16:15	1
Di-n-octyl phthalate	ND		1.1	0.053	ug/L		11/23/22 17:30	11/30/22 16:15	1
Fluoranthene	ND		0.053	0.011	ug/L		11/23/22 17:30	11/30/22 16:15	1
Fluorene	ND		0.053	0.011	ug/L		11/23/22 17:30	11/30/22 16:15	1
Hexachlorobenzene	ND		0.053	0.021	ug/L		11/23/22 17:30	11/30/22 16:15	1
Indeno[1,2,3-cd]pyrene	ND		0.053	0.021	ug/L		11/23/22 17:30	11/30/22 16:15	1
Naphthalene	ND		0.074	0.032	ug/L		11/23/22 17:30	11/30/22 16:15	1
N-Nitrosodimethylamine	ND		0.053	0.021	ug/L		11/23/22 17:30	11/30/22 16:15	1
Phenanthrene	ND		0.074	0.032	ug/L		11/23/22 17:30	11/30/22 16:15	1
Pyrene	ND		0.053	0.011	ug/L		11/23/22 17:30	11/30/22 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Methylnaphthalene-d10 (Surr)	*82*		*36 - 111*	*11/23/22 17:30*	*11/30/22 16:15*	*1*
Benzo(a)pyrene-d12 (Surr)	*77*		*10 - 110*	*11/23/22 17:30*	*11/30/22 16:15*	*1*
Fluoranthene-d10 (Surr)	*70*		*47 - 128*	*11/23/22 17:30*	*11/30/22 16:15*	*1*

Method: SW846 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	**1.1**	**B cn**	1.1	0.053	ug/L		11/23/22 17:30	12/01/22 08:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Methylnaphthalene-d10 (Surr)	*75*		*36 - 111*	*11/23/22 17:30*	*12/01/22 08:08*	*1*

Client: Environmental Works, Inc.
Project/Site: Springfield, MO – OFIWP

Job ID: 410-106360-1

Client Sample ID: FBW001_FB_112022
Date Collected: 11/17/22 10:14
Date Received: 11/18/22 09:58

Lab Sample ID: 410-106360-4
Matrix: Water

Method: SW846 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) - RA (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Benzo(a)pyrene-d12 (Surr)	*78*		*10 - 110*	*11/23/22 17:30*	*12/01/22 08:08*	*1*
Fluoranthene-d10 (Surr)	*81*		*47 - 128*	*11/23/22 17:30*	*12/01/22 08:08*	*1*

Method: SW846 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND	H	0.32	0.11	ug/L		12/03/22 03:22	12/05/22 12:16	1
1-Methylnaphthalene	ND	H	0.053	0.021	ug/L		12/03/22 03:22	12/05/22 12:16	1
2-Methylnaphthalene	ND	H	0.053	0.021	ug/L		12/03/22 03:22	12/05/22 12:16	1
Acenaphthene	ND	H	0.053	0.011	ug/L		12/03/22 03:22	12/05/22 12:16	1
Acenaphthylene	ND	H	0.053	0.011	ug/L		12/03/22 03:22	12/05/22 12:16	1
Anthracene	ND	H	0.053	0.011	ug/L		12/03/22 03:22	12/05/22 12:16	1
Benzo[a]anthracene	ND	H	0.053	0.011	ug/L		12/03/22 03:22	12/05/22 12:16	1
Benzo[a]pyrene	ND	H	0.053	0.011	ug/L		12/03/22 03:22	12/05/22 12:16	1
Benzo[b]fluoranthene	ND	H	0.053	0.011	ug/L		12/03/22 03:22	12/05/22 12:16	1
Benzo[g,h,i]perylene	ND	H	0.053	0.011	ug/L		12/03/22 03:22	12/05/22 12:16	1
Benzo[k]fluoranthene	ND	H	0.053	0.011	ug/L		12/03/22 03:22	12/05/22 12:16	1
Bis(2-chloroethyl)ether	ND	H	0.053	0.021	ug/L		12/03/22 03:22	12/05/22 12:16	1
Bis(2-ethylhexyl) phthalate	**0.74**	**J H B**	1.1	0.053	ug/L		12/03/22 03:22	12/05/22 12:16	1
Butylbenzylphthalate	ND	H	1.1	0.053	ug/L		12/03/22 03:22	12/05/22 12:16	1
Chrysene	ND	H	0.053	0.011	ug/L		12/03/22 03:22	12/05/22 12:16	1
Dibenz(a,h)anthracene	ND	H	0.053	0.021	ug/L		12/03/22 03:22	12/05/22 12:16	1
Dibenzofuran	ND	H	0.053	0.011	ug/L		12/03/22 03:22	12/05/22 12:16	1
Diethylphthalate	ND	H	1.1	0.053	ug/L		12/03/22 03:22	12/05/22 12:16	1
Dimethylphthalate	ND	H *1	1.1	0.053	ug/L		12/03/22 03:22	12/05/22 12:16	1
Di-n-butyl phthalate	**0.67**	**J H B *+ *1**	1.1	0.053	ug/L		12/03/22 03:22	12/05/22 12:16	1
Di-n-octyl phthalate	ND	H	1.1	0.053	ug/L		12/03/22 03:22	12/05/22 12:16	1
Fluoranthene	ND	H	0.053	0.011	ug/L		12/03/22 03:22	12/05/22 12:16	1
Fluorene	ND	H	0.053	0.011	ug/L		12/03/22 03:22	12/05/22 12:16	1
Hexachlorobenzene	ND	H	0.053	0.021	ug/L		12/03/22 03:22	12/05/22 12:16	1
Indeno[1,2,3-cd]pyrene	ND	H	0.053	0.021	ug/L		12/03/22 03:22	12/05/22 12:16	1
Naphthalene	ND	H	0.074	0.032	ug/L		12/03/22 03:22	12/05/22 12:16	1
N-Nitrosodimethylamine	ND	H	0.053	0.021	ug/L		12/03/22 03:22	12/05/22 12:16	1
Phenanthrene	ND	H	0.074	0.032	ug/L		12/03/22 03:22	12/05/22 12:16	1
Pyrene	ND	H	0.053	0.011	ug/L		12/03/22 03:22	12/05/22 12:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene-d10 (Surr)	*49*		*36 - 111*	*12/03/22 03:22*	*12/05/22 12:16*	*1*
Benzo(a)pyrene-d12 (Surr)	*83*		*10 - 110*	*12/03/22 03:22*	*12/05/22 12:16*	*1*
Fluoranthene-d10 (Surr)	*76*		*47 - 128*	*12/03/22 03:22*	*12/05/22 12:16*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dimethylphenol	ND		10	3	ug/L		11/23/22 17:30	11/25/22 01:13	1
2,4-Dinitrophenol	ND		30	10	ug/L		11/23/22 17:30	11/25/22 01:13	1
2-Chlorophenol	ND		2	0.5	ug/L		11/23/22 17:30	11/25/22 01:13	1
Carbazole	ND		2	0.5	ug/L		11/23/22 17:30	11/25/22 01:13	1
Phenol	ND		2	0.5	ug/L		11/23/22 17:30	11/25/22 01:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	*85*		*10 - 150*	*11/23/22 17:30*	*11/25/22 01:13*	*1*

Client: Environmental Works, Inc.
Project/Site: Springfield, MO – OFIWP

Job ID: 410-106360-1

Client Sample ID: FBW001_FB_112022
Date Collected: 11/17/22 10:14
Date Received: 11/18/22 09:58

Lab Sample ID: 410-106360-4
Matrix: Water

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	80		44 - 120	11/23/22 17:30	11/25/22 01:13	1
2-Fluorophenol (Surr)	45		10 - 120	11/23/22 17:30	11/25/22 01:13	1
Nitrobenzene-d5 (Surr)	79		25 - 125	11/23/22 17:30	11/25/22 01:13	1
Phenol-d5 (Surr)	30		10 - 120	11/23/22 17:30	11/25/22 01:13	1
p-Terphenyl-d14 (Surr)	91		37 - 120	11/23/22 17:30	11/25/22 01:13	1

Client: Environmental Works, Inc.
Project/Site: Springfield, MO – OFIWP

Job ID: 410-106360-1

Client Sample ID: Trip Blank
Date Collected: 11/17/22 00:00
Date Received: 11/18/22 09:58

Lab Sample ID: 410-106360-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			11/30/22 21:53	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			11/30/22 21:53	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			11/30/22 21:53	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			11/30/22 21:53	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			11/30/22 21:53	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/L			11/30/22 21:53	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			11/30/22 21:53	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.30	ug/L			11/30/22 21:53	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			11/30/22 21:53	1
1,2-Dichlorobenzene	ND		5.0	0.20	ug/L			11/30/22 21:53	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			11/30/22 21:53	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			11/30/22 21:53	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			11/30/22 21:53	1
1,3-Dichlorobenzene	ND		5.0	0.68	ug/L			11/30/22 21:53	1
1,4-Dichlorobenzene	ND		5.0	0.30	ug/L			11/30/22 21:53	1
2-Butanone	ND		10	0.50	ug/L			11/30/22 21:53	1
2-Hexanone	ND		10	0.85	ug/L			11/30/22 21:53	1
4-Methyl-2-pentanone	ND		10	0.50	ug/L			11/30/22 21:53	1
Acetone	ND	cn	20	0.70	ug/L			11/30/22 21:53	1
Benzene	ND		1.0	0.30	ug/L			11/30/22 21:53	1
Bromodichloromethane	ND		1.0	0.20	ug/L			11/30/22 21:53	1
Bromoform	ND		4.0	1.0	ug/L			11/30/22 21:53	1
Bromomethane	ND		1.0	0.30	ug/L			11/30/22 21:53	1
Carbon disulfide	ND		5.0	0.30	ug/L			11/30/22 21:53	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			11/30/22 21:53	1
Chlorobenzene	ND		1.0	0.30	ug/L			11/30/22 21:53	1
Chloroethane	ND		1.0	0.20	ug/L			11/30/22 21:53	1
Chloroform	ND		1.0	0.30	ug/L			11/30/22 21:53	1
Chloromethane	ND		2.0	0.55	ug/L			11/30/22 21:53	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			11/30/22 21:53	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			11/30/22 21:53	1
Cyclohexane	ND		5.0	1.0	ug/L			11/30/22 21:53	1
Dibromochloromethane	ND		1.0	0.20	ug/L			11/30/22 21:53	1
Dichlorodifluoromethane	ND		1.0	0.20	ug/L			11/30/22 21:53	1
Ethylbenzene	ND		1.0	0.40	ug/L			11/30/22 21:53	1
Freon 113	ND		10	0.30	ug/L			11/30/22 21:53	1
Isopropylbenzene	ND		5.0	0.20	ug/L			11/30/22 21:53	1
Methyl acetate	ND		5.0	0.30	ug/L			11/30/22 21:53	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			11/30/22 21:53	1
Methylcyclohexane	ND		5.0	0.50	ug/L			11/30/22 21:53	1
Methylene Chloride	ND		1.0	0.30	ug/L			11/30/22 21:53	1
Styrene	ND		5.0	0.30	ug/L			11/30/22 21:53	1
Tetrachloroethene	ND		1.0	0.30	ug/L			11/30/22 21:53	1
Toluene	ND		1.0	0.20	ug/L			11/30/22 21:53	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			11/30/22 21:53	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			11/30/22 21:53	1
Trichloroethene	ND		1.0	0.30	ug/L			11/30/22 21:53	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			11/30/22 21:53	1
Vinyl chloride	ND		1.0	0.20	ug/L			11/30/22 21:53	1

Client: Environmental Works, Inc.
Project/Site: Springfield, MO – OFIWP

Job ID: 410-106360-1

Client Sample ID: Trip Blank
Date Collected: 11/17/22 00:00
Date Received: 11/18/22 09:58

Lab Sample ID: 410-106360-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		1.0	0.40	ug/L			11/30/22 21:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*11/30/22 21:53*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*11/30/22 21:53*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*11/30/22 21:53*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*11/30/22 21:53*	*1*

Client Sample ID: FBS010_112022

Lab Sample ID: 410-106360-1

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

Analyte	Result	Qualifier	Unit	Limit	RL	Method	Prep Type
Benzene	ND		ug/L	5	1.0	8260C	Total/NA
Ethylbenzene	ND		ug/L	700	1.0	8260C	Total/NA
Toluene	ND		ug/L	1000	1.0	8260C	Total/NA
Xylenes, Total	ND		ug/L	10000	1.0	8260C	Total/NA
2-Methylnaphthalene	ND		ug/L	36	0.053	8270D SIM	Total/NA
Acenaphthene	ND		ug/L	1200	0.053	8270D SIM	Total/NA
Anthracene	ND		ug/L	9600	0.053	8270D SIM	Total/NA
Benzo[a]anthracene	ND		ug/L	0.1	0.053	8270D SIM	Total/NA
Benzo[a]pyrene	ND		ug/L	0.1	0.053	8270D SIM	Total/NA
Benzo[b]fluoranthene	ND		ug/L	0.1	0.053	8270D SIM	Total/NA
Benzo[k]fluoranthene	ND		ug/L	0.1	0.053	8270D SIM	Total/NA
Chrysene	ND		ug/L	0.1	0.053	8270D SIM	Total/NA
Dibenz(a,h)anthracene	ND		ug/L	0.1	0.053	8270D SIM	Total/NA
Dibenzofuran	ND		ug/L	7.9	0.053	8270D SIM	Total/NA
Fluoranthene	0.030	J	ug/L	300	0.053	8270D SIM	Total/NA
Fluorene	ND		ug/L	1300	0.053	8270D SIM	Total/NA
Indeno[1,2,3-cd]pyrene	ND		ug/L	0.1	0.053	8270D SIM	Total/NA
Naphthalene	ND		ug/L	20	0.074	8270D SIM	Total/NA
Pyrene	0.022	J	ug/L	960	0.053	8270D SIM	Total/NA
2-Methylnaphthalene - RE	ND	H	ug/L	36	0.056	8270D SIM	Total/NA
Acenaphthene - RE	ND	H	ug/L	1200	0.056	8270D SIM	Total/NA
Anthracene - RE	ND	H	ug/L	9600	0.056	8270D SIM	Total/NA
Benzo[a]anthracene - RE	ND	H	ug/L	0.1	0.056	8270D SIM	Total/NA
Benzo[a]pyrene - RE	ND	H	ug/L	0.1	0.056	8270D SIM	Total/NA
Benzo[b]fluoranthene - RE	ND	H	ug/L	0.1	0.056	8270D SIM	Total/NA
Benzo[k]fluoranthene - RE	ND	H	ug/L	0.1	0.056	8270D SIM	Total/NA
Chrysene - RE	ND	H	ug/L	0.1	0.056	8270D SIM	Total/NA
Dibenz(a,h)anthracene - RE	ND	H	ug/L	0.1	0.056	8270D SIM	Total/NA
Dibenzofuran - RE	ND	H	ug/L	7.9	0.056	8270D SIM	Total/NA
Fluoranthene - RE	ND	H	ug/L	300	0.056	8270D SIM	Total/NA
Fluorene - RE	ND	H	ug/L	1300	0.056	8270D SIM	Total/NA
Indeno[1,2,3-cd]pyrene - RE	ND	H	ug/L	0.1	0.056	8270D SIM	Total/NA
Naphthalene - RE	ND	H	ug/L	20	0.078	8270D SIM	Total/NA
Pyrene - RE	ND	H	ug/L	960	0.056	8270D SIM	Total/NA
2,4-Dimethylphenol	ND		ug/L	540	10	8270D	Total/NA
2,4-Dinitrophenol	ND		ug/L	70	30	8270D	Total/NA
2-Chlorophenol	ND		ug/L	0.5	2	8270D	Total/NA
Phenol	ND		ug/L	300	2	8270D	Total/NA

Client Sample ID: DUP-01_112022

Lab Sample ID: 410-106360-2

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

Analyte	Result	Qualifier	Unit	Limit	RL	Method	Prep Type
Benzene	ND		ug/L	5	1.0	8260C	Total/NA

Client Sample ID: DUP-01_112022 (Continued)

Lab Sample ID: 410-106360-2

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

Analyte	Result	Qualifier	Unit	Limit	RL	Method	Prep Type
Ethylbenzene	ND		ug/L	700	1.0	8260C	Total/NA
Toluene	ND		ug/L	1000	1.0	8260C	Total/NA
Xylenes, Total	ND		ug/L	10000	1.0	8260C	Total/NA
2-Methylnaphthalene	ND		ug/L	36	0.052	8270D SIM	Total/NA
Acenaphthene	ND		ug/L	1200	0.052	8270D SIM	Total/NA
Anthracene	ND		ug/L	9600	0.052	8270D SIM	Total/NA
Benzo[a]anthracene	ND		ug/L	0.1	0.052	8270D SIM	Total/NA
Benzo[a]pyrene	ND		ug/L	0.1	0.052	8270D SIM	Total/NA
Benzo[b]fluoranthene	ND		ug/L	0.1	0.052	8270D SIM	Total/NA
Benzo[k]fluoranthene	ND		ug/L	0.1	0.052	8270D SIM	Total/NA
Chrysene	ND		ug/L	0.1	0.052	8270D SIM	Total/NA
Dibenz(a,h)anthracene	ND		ug/L	0.1	0.052	8270D SIM	Total/NA
Dibenzofuran	ND		ug/L	7.9	0.052	8270D SIM	Total/NA
Fluoranthene	0.018	J	ug/L	300	0.052	8270D SIM	Total/NA
Fluorene	ND		ug/L	1300	0.052	8270D SIM	Total/NA
Indeno[1,2,3-cd]pyrene	ND		ug/L	0.1	0.052	8270D SIM	Total/NA
Naphthalene	ND		ug/L	20	0.073	8270D SIM	Total/NA
Pyrene	0.011	J	ug/L	960	0.052	8270D SIM	Total/NA
2-Methylnaphthalene - RE	ND	H	ug/L	36	0.056	8270D SIM	Total/NA
Acenaphthene - RE	ND	H	ug/L	1200	0.056	8270D SIM	Total/NA
Anthracene - RE	ND	H	ug/L	9600	0.056	8270D SIM	Total/NA
Benzo[a]anthracene - RE	ND	H	ug/L	0.1	0.056	8270D SIM	Total/NA
Benzo[a]pyrene - RE	ND	H	ug/L	0.1	0.056	8270D SIM	Total/NA
Benzo[b]fluoranthene - RE	ND	H	ug/L	0.1	0.056	8270D SIM	Total/NA
Benzo[k]fluoranthene - RE	ND	H	ug/L	0.1	0.056	8270D SIM	Total/NA
Chrysene - RE	ND	H	ug/L	0.1	0.056	8270D SIM	Total/NA
Dibenz(a,h)anthracene - RE	ND	H	ug/L	0.1	0.056	8270D SIM	Total/NA
Dibenzofuran - RE	ND	H	ug/L	7.9	0.056	8270D SIM	Total/NA
Fluoranthene - RE	ND	H	ug/L	300	0.056	8270D SIM	Total/NA
Fluorene - RE	ND	H	ug/L	1300	0.056	8270D SIM	Total/NA
Indeno[1,2,3-cd]pyrene - RE	ND	H	ug/L	0.1	0.056	8270D SIM	Total/NA
Naphthalene - RE	ND	H	ug/L	20	0.078	8270D SIM	Total/NA
Pyrene - RE	ND	H	ug/L	960	0.056	8270D SIM	Total/NA
2,4-Dimethylphenol	ND		ug/L	540	10	8270D	Total/NA
2,4-Dinitrophenol	ND		ug/L	70	30	8270D	Total/NA
2-Chlorophenol	ND		ug/L	0.5	2	8270D	Total/NA
Phenol	ND		ug/L	300	2	8270D	Total/NA

Client Sample ID: FBW001_112022

Lab Sample ID: 410-106360-3

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

Analyte	Result	Qualifier	Unit	Limit	RL	Method	Prep Type
Benzene	ND		ug/L	5	1.0	8260C	Total/NA
Ethylbenzene	ND		ug/L	700	1.0	8260C	Total/NA

Client Sample ID: FBW001_112022 (Continued)

Lab Sample ID: 410-106360-3

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

Analyte	Result	Qualifier	Unit	Limit	RL	Method	Prep Type
Toluene	ND		ug/L	1000	1.0	8260C	Total/NA
Xylenes, Total	ND		ug/L	10000	1.0	8260C	Total/NA
2-Methylnaphthalene	ND		ug/L	36	0.051	8270D SIM	Total/NA
Acenaphthene	ND		ug/L	1200	0.051	8270D SIM	Total/NA
Anthracene	0.013	J	ug/L	9600	0.051	8270D SIM	Total/NA
Benzo[a]anthracene	0.019	J	ug/L	0.1	0.051	8270D SIM	Total/NA
Benzo[a]pyrene	0.011	J	ug/L	0.1	0.051	8270D SIM	Total/NA
Benzo[b]fluoranthene	0.015	J	ug/L	0.1	0.051	8270D SIM	Total/NA
Benzo[k]fluoranthene	0.012	J	ug/L	0.1	0.051	8270D SIM	Total/NA
Chrysene	0.017	J	ug/L	0.1	0.051	8270D SIM	Total/NA
Dibenz(a,h)anthracene	ND		ug/L	0.1	0.051	8270D SIM	Total/NA
Dibenzofuran	0.010	J	ug/L	7.9	0.051	8270D SIM	Total/NA
Fluoranthene	0.018	J	ug/L	300	0.051	8270D SIM	Total/NA
Fluorene	0.012	J	ug/L	1300	0.051	8270D SIM	Total/NA
Indeno[1,2,3-cd]pyrene	ND		ug/L	0.1	0.051	8270D SIM	Total/NA
Naphthalene	ND		ug/L	20	0.072	8270D SIM	Total/NA
Pyrene	0.021	J	ug/L	960	0.051	8270D SIM	Total/NA
2-Methylnaphthalene - RE	ND	H	ug/L	36	0.051	8270D SIM	Total/NA
Acenaphthene - RE	ND	H	ug/L	1200	0.051	8270D SIM	Total/NA
Anthracene - RE	ND	H	ug/L	9600	0.051	8270D SIM	Total/NA
Benzo[a]anthracene - RE	ND	H	ug/L	0.1	0.051	8270D SIM	Total/NA
Benzo[a]pyrene - RE	ND	H	ug/L	0.1	0.051	8270D SIM	Total/NA
Benzo[b]fluoranthene - RE	ND	H	ug/L	0.1	0.051	8270D SIM	Total/NA
Benzo[k]fluoranthene - RE	ND	H	ug/L	0.1	0.051	8270D SIM	Total/NA
Chrysene - RE	ND	H	ug/L	0.1	0.051	8270D SIM	Total/NA
Dibenz(a,h)anthracene - RE	ND	H	ug/L	0.1	0.051	8270D SIM	Total/NA
Dibenzofuran - RE	ND	H	ug/L	7.9	0.051	8270D SIM	Total/NA
Fluoranthene - RE	ND	H	ug/L	300	0.051	8270D SIM	Total/NA
Fluorene - RE	ND	H	ug/L	1300	0.051	8270D SIM	Total/NA
Indeno[1,2,3-cd]pyrene - RE	ND	H	ug/L	0.1	0.051	8270D SIM	Total/NA
Naphthalene - RE	ND	H	ug/L	20	0.072	8270D SIM	Total/NA
Pyrene - RE	ND	H	ug/L	960	0.051	8270D SIM	Total/NA
2,4-Dimethylphenol	ND		ug/L	540	10	8270D	Total/NA
2,4-Dinitrophenol	ND		ug/L	70	30	8270D	Total/NA
2-Chlorophenol	ND		ug/L	0.5	2	8270D	Total/NA
Phenol	ND		ug/L	300	2	8270D	Total/NA

Client Sample ID: FBW001_FB_112022

Lab Sample ID: 410-106360-4

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

Analyte	Result	Qualifier	Unit	Limit	RL	Method	Prep Type
Benzene	ND		ug/L	5	1.0	8260C	Total/NA
Ethylbenzene	ND		ug/L	700	1.0	8260C	Total/NA
Toluene	ND		ug/L	1000	1.0	8260C	Total/NA

Client Sample ID: FBW001_FB_112022 (Continued)

Lab Sample ID: 410-106360-4

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

Analyte	Result	Qualifier	Unit	Limit	RL	Method	Prep Type
Xylenes, Total	ND		ug/L	10000	1.0	8260C	Total/NA
2-Methylnaphthalene	ND		ug/L	36	0.053	8270D SIM	Total/NA
Acenaphthene	ND		ug/L	1200	0.053	8270D SIM	Total/NA
Anthracene	ND		ug/L	9600	0.053	8270D SIM	Total/NA
Benzo[a]anthracene	ND		ug/L	0.1	0.053	8270D SIM	Total/NA
Benzo[a]pyrene	ND		ug/L	0.1	0.053	8270D SIM	Total/NA
Benzo[b]fluoranthene	ND		ug/L	0.1	0.053	8270D SIM	Total/NA
Benzo[k]fluoranthene	ND		ug/L	0.1	0.053	8270D SIM	Total/NA
Chrysene	ND		ug/L	0.1	0.053	8270D SIM	Total/NA
Dibenz(a,h)anthracene	ND		ug/L	0.1	0.053	8270D SIM	Total/NA
Dibenzofuran	ND		ug/L	7.9	0.053	8270D SIM	Total/NA
Fluoranthene	ND		ug/L	300	0.053	8270D SIM	Total/NA
Fluorene	ND		ug/L	1300	0.053	8270D SIM	Total/NA
Indeno[1,2,3-cd]pyrene	ND		ug/L	0.1	0.053	8270D SIM	Total/NA
Naphthalene	ND		ug/L	20	0.074	8270D SIM	Total/NA
Pyrene	ND		ug/L	960	0.053	8270D SIM	Total/NA
2-Methylnaphthalene - RE	ND	H	ug/L	36	0.053	8270D SIM	Total/NA
Acenaphthene - RE	ND	H	ug/L	1200	0.053	8270D SIM	Total/NA
Anthracene - RE	ND	H	ug/L	9600	0.053	8270D SIM	Total/NA
Benzo[a]anthracene - RE	ND	H	ug/L	0.1	0.053	8270D SIM	Total/NA
Benzo[a]pyrene - RE	ND	H	ug/L	0.1	0.053	8270D SIM	Total/NA
Benzo[b]fluoranthene - RE	ND	H	ug/L	0.1	0.053	8270D SIM	Total/NA
Benzo[k]fluoranthene - RE	ND	H	ug/L	0.1	0.053	8270D SIM	Total/NA
Chrysene - RE	ND	H	ug/L	0.1	0.053	8270D SIM	Total/NA
Dibenz(a,h)anthracene - RE	ND	H	ug/L	0.1	0.053	8270D SIM	Total/NA
Dibenzofuran - RE	ND	H	ug/L	7.9	0.053	8270D SIM	Total/NA
Fluoranthene - RE	ND	H	ug/L	300	0.053	8270D SIM	Total/NA
Fluorene - RE	ND	H	ug/L	1300	0.053	8270D SIM	Total/NA
Indeno[1,2,3-cd]pyrene - RE	ND	H	ug/L	0.1	0.053	8270D SIM	Total/NA
Naphthalene - RE	ND	H	ug/L	20	0.074	8270D SIM	Total/NA
Pyrene - RE	ND	H	ug/L	960	0.053	8270D SIM	Total/NA
2,4-Dimethylphenol	ND		ug/L	540	10	8270D	Total/NA
2,4-Dinitrophenol	ND		ug/L	70	30	8270D	Total/NA
2-Chlorophenol	ND		ug/L	0.5	2	8270D	Total/NA
Phenol	ND		ug/L	300	2	8270D	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 410-106360-5

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

Analyte	Result	Qualifier	Unit	Limit	RL	Method	Prep Type
Benzene	ND		ug/L	5	1.0	8260C	Total/NA
Ethylbenzene	ND		ug/L	700	1.0	8260C	Total/NA
Toluene	ND		ug/L	1000	1.0	8260C	Total/NA
Xylenes, Total	ND		ug/L	10000	1.0	8260C	Total/NA

Surrogate Summary

Client: Environmental Works, Inc.
Project/Site: Springfield, MO – OFIWP

Job ID: 410-106360-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-106360-1	FBS010_112022	101	95	102	104
410-106360-2	DUP-01_112022	99	93	100	101
410-106360-3	FBW001_112022	95	95	101	102
410-106360-3 MS	FBW001-MS_112022	103	93	101	104
410-106360-3 MSD	FBW001-MSD_112022	99	93	101	104
410-106360-4	FBW001_FB_112022	100	94	99	104
410-106360-5	Trip Blank	101	93	99	104
LCS 410-322343/4	Lab Control Sample	100	94	100	104
LCSD 410-322343/5	Lab Control Sample Dup	103	94	101	104
MB 410-322343/7	Method Blank	94	92	99	102

Surrogate Legend

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

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(10-150)	(44-120)	(10-120)	(25-125)	(10-120)	(37-120)
410-106360-1	FBS010_112022	84	77	43	77	29	92
410-106360-2	DUP-01_112022	90	81	47	81	31	97
410-106360-3	FBW001_112022	83	74	34	75	22	71
410-106360-3 MS	FBW001-MS_112022	103	89	63	89	45	106
410-106360-3 MSD	FBW001-MSD_112022	103	90	61	92	44	108
410-106360-4	FBW001_FB_112022	85	80	45	79	30	91
LCS 410-320749/2-A	Lab Control Sample	102	90	62	91	45	107
LCSD 410-320749/3-A	Lab Control Sample Dup	101	86	65	92	46	107
MB 410-320749/1-A	Method Blank	90	76	53	82	35	99

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		MNPd10	BAPd12	FLN10
Lab Sample ID	Client Sample ID	(36-111)	(10-110)	(47-128)
410-106360-1	FBS010_112022	78	73	71
410-106360-1 - RA	FBS010_112022	76	76	80
410-106360-1 - RE	FBS010_112022	45	68	77
410-106360-2	DUP-01_112022	82	73	70

Surrogate Summary

Client: Environmental Works, Inc. Job ID: 410-106360-1
Project/Site: Springfield, MO – OFIWP

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	MNPd10 (36-111)	BAPd12 (10-110)	FLN10 (47-128)
410-106360-2 - RA	DUP-01_112022	76	75	82
410-106360-2 - RE	DUP-01_112022	54	72	79
410-106360-3	FBW001_112022	71	54	63
410-106360-3 - RA	FBW001_112022	65	55	70
410-106360-3 - RE	FBW001_112022	41	65	57
410-106360-3 MS	FBW001-MS_112022	75	78	77
410-106360-3 MS - RE	FBW001-MS_112022	52	78	76
410-106360-3 MSD	FBW001-MSD_112022	75	77	73
410-106360-3 MSD - RE	FBW001-MSD_112022	50	79	75
410-106360-4	FBW001_FB_112022	82	77	70
410-106360-4 - RA	FBW001_FB_112022	75	78	81
410-106360-4 - RE	FBW001_FB_112022	49	83	76
LCS 410-320750/2-A	Lab Control Sample	73	87	74
LCS 410-323309/2-A	Lab Control Sample	68	84	75
LCSD 410-320750/3-A	Lab Control Sample Dup	74	88	75
LCSD 410-323309/3-A	Lab Control Sample Dup	68	89	79
MB 410-320750/1-A	Method Blank	79	84	76
MB 410-323309/1-A	Method Blank	57	66	60

Surrogate Legend

MNPd10 = 1-Methylnaphthalene-d10 (Surr)
BAPd12 = Benzo(a)pyrene-d12 (Surr)
FLN10 = Fluoranthene-d10 (Surr)

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

Lab Sample ID: MB 410-322343/7
Matrix: Water
Analysis Batch: 322343

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-Trichloroethane	ND		1.0	0.30	ug/L			11/30/22 21:13	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			11/30/22 21:13	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			11/30/22 21:13	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			11/30/22 21:13	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			11/30/22 21:13	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/L			11/30/22 21:13	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			11/30/22 21:13	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.30	ug/L			11/30/22 21:13	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			11/30/22 21:13	1
1,2-Dichlorobenzene	ND		5.0	0.20	ug/L			11/30/22 21:13	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			11/30/22 21:13	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			11/30/22 21:13	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			11/30/22 21:13	1
1,3-Dichlorobenzene	ND		5.0	0.68	ug/L			11/30/22 21:13	1
1,4-Dichlorobenzene	ND		5.0	0.30	ug/L			11/30/22 21:13	1
2-Butanone	ND		10	0.50	ug/L			11/30/22 21:13	1
2-Hexanone	ND		10	0.85	ug/L			11/30/22 21:13	1
4-Methyl-2-pentanone	ND		10	0.50	ug/L			11/30/22 21:13	1
Acetone	ND		20	0.70	ug/L			11/30/22 21:13	1
Benzene	ND		1.0	0.30	ug/L			11/30/22 21:13	1
Bromodichloromethane	ND		1.0	0.20	ug/L			11/30/22 21:13	1
Bromoform	ND		4.0	1.0	ug/L			11/30/22 21:13	1
Bromomethane	ND		1.0	0.30	ug/L			11/30/22 21:13	1
Carbon disulfide	ND		5.0	0.30	ug/L			11/30/22 21:13	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			11/30/22 21:13	1
Chlorobenzene	ND		1.0	0.30	ug/L			11/30/22 21:13	1
Chloroethane	ND		1.0	0.20	ug/L			11/30/22 21:13	1
Chloroform	ND		1.0	0.30	ug/L			11/30/22 21:13	1
Chloromethane	ND		2.0	0.55	ug/L			11/30/22 21:13	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			11/30/22 21:13	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			11/30/22 21:13	1
Cyclohexane	ND		5.0	1.0	ug/L			11/30/22 21:13	1
Dibromochloromethane	ND		1.0	0.20	ug/L			11/30/22 21:13	1
Dichlorodifluoromethane	ND		1.0	0.20	ug/L			11/30/22 21:13	1
Ethylbenzene	ND		1.0	0.40	ug/L			11/30/22 21:13	1
Freon 113	ND		10	0.30	ug/L			11/30/22 21:13	1
Isopropylbenzene	ND		5.0	0.20	ug/L			11/30/22 21:13	1
Methyl acetate	ND		5.0	0.30	ug/L			11/30/22 21:13	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			11/30/22 21:13	1
Methylcyclohexane	ND		5.0	0.50	ug/L			11/30/22 21:13	1
Methylene Chloride	ND		1.0	0.30	ug/L			11/30/22 21:13	1
Styrene	ND		5.0	0.30	ug/L			11/30/22 21:13	1
Tetrachloroethene	ND		1.0	0.30	ug/L			11/30/22 21:13	1
Toluene	ND		1.0	0.20	ug/L			11/30/22 21:13	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			11/30/22 21:13	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			11/30/22 21:13	1
Trichloroethene	ND		1.0	0.30	ug/L			11/30/22 21:13	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			11/30/22 21:13	1

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

Lab Sample ID: MB 410-322343/7
Matrix: Water
Analysis Batch: 322343

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		1.0	0.20	ug/L			11/30/22 21:13	1
Xylenes, Total	ND		1.0	0.40	ug/L			11/30/22 21:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*80 - 120*		*11/30/22 21:13*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*11/30/22 21:13*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*11/30/22 21:13*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*11/30/22 21:13*	*1*

Lab Sample ID: LCS 410-322343/4
Matrix: Water
Analysis Batch: 322343

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-Trichloroethane	20.0	18.6		ug/L		93	67 - 126
1,1,2,2-Tetrachloroethane	20.0	20.3		ug/L		102	72 - 120
1,1,2-Trichloroethane	20.0	20.2		ug/L		101	80 - 120
1,1-Dichloroethane	20.0	19.4		ug/L		97	80 - 120
1,1-Dichloroethene	20.0	19.8		ug/L		99	80 - 131
1,2,4-Trichlorobenzene	20.0	22.0		ug/L		110	63 - 120
1,2,4-Trimethylbenzene	20.0	22.1		ug/L		111	75 - 120
1,2-Dibromo-3-Chloropropane	20.0	16.5		ug/L		82	47 - 131
1,2-Dibromoethane	20.0	20.9		ug/L		104	77 - 120
1,2-Dichlorobenzene	20.0	22.0		ug/L		110	80 - 120
1,2-Dichloroethane	20.0	18.6		ug/L		93	73 - 124
1,2-Dichloropropane	20.0	19.1		ug/L		95	80 - 120
1,3,5-Trimethylbenzene	20.0	21.9		ug/L		109	75 - 120
1,3-Dichlorobenzene	20.0	22.0		ug/L		110	80 - 120
1,4-Dichlorobenzene	20.0	21.7		ug/L		109	80 - 120
2-Butanone	250	212		ug/L		85	59 - 135
2-Hexanone	250	245		ug/L		98	56 - 135
4-Methyl-2-pentanone	250	226		ug/L		90	62 - 133
Acetone	250	287		ug/L		115	54 - 157
Benzene	20.0	19.9		ug/L		99	80 - 120
Bromodichloromethane	20.0	17.7		ug/L		89	71 - 120
Bromoform	20.0	18.4		ug/L		92	51 - 120
Bromomethane	20.0	18.6		ug/L		93	53 - 128
Carbon disulfide	20.0	21.2		ug/L		106	65 - 128
Carbon tetrachloride	20.0	18.3		ug/L		91	64 - 134
Chlorobenzene	20.0	21.0		ug/L		105	80 - 120
Chloroethane	20.0	18.6		ug/L		93	55 - 123
Chloroform	20.0	19.2		ug/L		96	80 - 120
Chloromethane	20.0	18.7		ug/L		94	56 - 121
cis-1,2-Dichloroethene	20.0	20.5		ug/L		103	80 - 125
cis-1,3-Dichloropropene	20.0	17.3		ug/L		87	75 - 120
Cyclohexane	20.0	19.9		ug/L		99	68 - 126
Dibromochloromethane	20.0	18.7		ug/L		93	71 - 120
Dichlorodifluoromethane	20.0	13.9		ug/L		70	41 - 127

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

Lab Sample ID: LCS 410-322343/4
Matrix: Water
Analysis Batch: 322343

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ethylbenzene			20.0	21.5		ug/L		108	80 - 120		
Freon 113			20.0	21.0		ug/L		105	73 - 139		
Isopropylbenzene			20.0	22.7		ug/L		113	80 - 120		
Methyl acetate			20.0	18.9		ug/L		95	54 - 136		
Methyl tertiary butyl ether			20.0	19.8		ug/L		99	69 - 122		
Methylcyclohexane			20.0	20.6		ug/L		103	67 - 121		
Methylene Chloride			20.0	19.0		ug/L		95	80 - 120		
Styrene			20.0	20.9		ug/L		105	80 - 120		
Tetrachloroethene			20.0	22.1		ug/L		110	80 - 120		
Toluene			20.0	21.4		ug/L		107	80 - 120		
trans-1,2-Dichloroethene			20.0	18.8		ug/L		94	80 - 126		
trans-1,3-Dichloropropene			20.0	17.7		ug/L		89	67 - 120		
Trichloroethene			20.0	18.9		ug/L		94	80 - 120		
Trichlorofluoromethane			20.0	16.6		ug/L		83	55 - 135		
Vinyl chloride			20.0	17.9		ug/L		90	56 - 120		
Xylenes, Total			60.0	65.2		ug/L		109	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*80 - 120*
Toluene-d8 (Surr)	*104*		*80 - 120*

Lab Sample ID: LCSD 410-322343/5
Matrix: Water
Analysis Batch: 322343

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-Trichloroethane			20.0	18.8		ug/L		94	67 - 126	1	30
1,1,2,2-Tetrachloroethane			20.0	20.5		ug/L		103	72 - 120	1	30
1,1,2-Trichloroethane			20.0	19.4		ug/L		97	80 - 120	4	30
1,1-Dichloroethane			20.0	19.6		ug/L		98	80 - 120	1	30
1,1-Dichloroethene			20.0	19.1		ug/L		95	80 - 131	4	30
1,2,4-Trichlorobenzene			20.0	22.4		ug/L		112	63 - 120	2	30
1,2,4-Trimethylbenzene			20.0	22.0		ug/L		110	75 - 120	0	30
1,2-Dibromo-3-Chloropropane			20.0	16.6		ug/L		83	47 - 131	0	30
1,2-Dibromoethane			20.0	20.9		ug/L		105	77 - 120	0	30
1,2-Dichlorobenzene			20.0	22.2		ug/L		111	80 - 120	1	30
1,2-Dichloroethane			20.0	18.6		ug/L		93	73 - 124	0	30
1,2-Dichloropropane			20.0	19.5		ug/L		98	80 - 120	2	30
1,3,5-Trimethylbenzene			20.0	21.6		ug/L		108	75 - 120	1	30
1,3-Dichlorobenzene			20.0	21.7		ug/L		109	80 - 120	1	30
1,4-Dichlorobenzene			20.0	21.7		ug/L		108	80 - 120	0	30
2-Butanone			250	219		ug/L		87	59 - 135	3	30
2-Hexanone			250	242		ug/L		97	56 - 135	1	30
4-Methyl-2-pentanone			250	230		ug/L		92	62 - 133	2	30
Acetone			250	275		ug/L		110	54 - 157	4	30
Benzene			20.0	20.0		ug/L		100	80 - 120	1	30

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

Lab Sample ID: LCSD 410-322343/5
Matrix: Water
Analysis Batch: 322343

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
Bromodichloromethane			20.0	18.0		ug/L		90	71 - 120	2	30
Bromoform			20.0	17.8		ug/L		89	51 - 120	3	30
Bromomethane			20.0	18.6		ug/L		93	53 - 128	0	30
Carbon disulfide			20.0	20.8		ug/L		104	65 - 128	2	30
Carbon tetrachloride			20.0	18.1		ug/L		91	64 - 134	1	30
Chlorobenzene			20.0	21.0		ug/L		105	80 - 120	0	30
Chloroethane			20.0	18.7		ug/L		94	55 - 123	1	30
Chloroform			20.0	19.2		ug/L		96	80 - 120	0	30
Chloromethane			20.0	19.0		ug/L		95	56 - 121	1	30
cis-1,2-Dichloroethene			20.0	20.6		ug/L		103	80 - 125	0	30
cis-1,3-Dichloropropene			20.0	17.2		ug/L		86	75 - 120	1	30
Cyclohexane			20.0	20.3		ug/L		101	68 - 126	2	30
Dibromochloromethane			20.0	18.6		ug/L		93	71 - 120	1	30
Dichlorodifluoromethane			20.0	14.0		ug/L		70	41 - 127	0	30
Ethylbenzene			20.0	21.7		ug/L		108	80 - 120	1	30
Freon 113			20.0	20.9		ug/L		104	73 - 139	1	30
Isopropylbenzene			20.0	22.3		ug/L		111	80 - 120	2	30
Methyl acetate			20.0	23.2		ug/L		116	54 - 136	20	30
Methyl tertiary butyl ether			20.0	20.1		ug/L		101	69 - 122	2	30
Methylcyclohexane			20.0	21.1		ug/L		105	67 - 121	2	30
Methylene Chloride			20.0	19.3		ug/L		96	80 - 120	1	30
Styrene			20.0	20.7		ug/L		103	80 - 120	1	30
Tetrachloroethene			20.0	22.1		ug/L		111	80 - 120	0	30
Toluene			20.0	20.5		ug/L		103	80 - 120	4	30
trans-1,2-Dichloroethene			20.0	19.8		ug/L		99	80 - 126	5	30
trans-1,3-Dichloropropene			20.0	18.0		ug/L		90	67 - 120	2	30
Trichloroethene			20.0	19.6		ug/L		98	80 - 120	4	30
Trichlorofluoromethane			20.0	16.6		ug/L		83	55 - 135	0	30
Vinyl chloride			20.0	17.8		ug/L		89	56 - 120	1	30
Xylenes, Total			60.0	64.5		ug/L		108	80 - 120	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 120*
Toluene-d8 (Surr)	*104*		*80 - 120*

Lab Sample ID: 410-106360-3 MS
Matrix: Water
Analysis Batch: 322343

Client Sample ID: FBW001-MS_112022
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	ND		20.0	20.0		ug/L		100	67 - 126
1,1,2,2-Tetrachloroethane	ND		20.0	21.1		ug/L		105	72 - 120
1,1,2-Trichloroethane	ND		20.0	20.2		ug/L		101	80 - 120
1,1-Dichloroethane	ND		20.0	21.4		ug/L		107	80 - 120
1,1-Dichloroethene	ND		20.0	22.7		ug/L		113	80 - 131
1,2,4-Trichlorobenzene	ND	F1	20.0	23.9		ug/L		119	63 - 120

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

Lab Sample ID: 410-106360-3 MS
Matrix: Water
Analysis Batch: 322343

Client Sample ID: FBW001-MS_112022
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trimethylbenzene	ND		20.0	23.8		ug/L		119	75 - 120
1,2-Dibromo-3-Chloropropane	ND		20.0	15.7		ug/L		78	47 - 131
1,2-Dibromoethane	ND		20.0	21.2		ug/L		106	77 - 120
1,2-Dichlorobenzene	ND		20.0	23.8		ug/L		119	80 - 120
1,2-Dichloroethane	ND		20.0	19.5		ug/L		97	73 - 124
1,2-Dichloropropane	ND		20.0	20.1		ug/L		101	80 - 120
1,3,5-Trimethylbenzene	ND		20.0	24.0		ug/L		120	75 - 120
1,3-Dichlorobenzene	ND		20.0	22.9		ug/L		115	80 - 120
1,4-Dichlorobenzene	ND		20.0	23.1		ug/L		116	80 - 120
2-Butanone	ND		250	205		ug/L		82	59 - 135
2-Hexanone	ND		250	237		ug/L		95	56 - 135
4-Methyl-2-pentanone	ND		250	221		ug/L		88	62 - 133
Acetone	ND	cn	250	304		ug/L		122	54 - 157
Benzene	ND		20.0	21.3		ug/L		106	80 - 120
Bromodichloromethane	ND		20.0	18.8		ug/L		94	71 - 120
Bromoform	ND		20.0	18.8		ug/L		94	51 - 120
Bromomethane	ND		20.0	19.8		ug/L		99	53 - 128
Carbon disulfide	ND		20.0	23.4		ug/L		117	65 - 128
Carbon tetrachloride	ND		20.0	20.3		ug/L		102	64 - 134
Chlorobenzene	ND		20.0	22.3		ug/L		112	80 - 120
Chloroethane	ND		20.0	20.3		ug/L		102	55 - 123
Chloroform	ND		20.0	20.6		ug/L		103	80 - 120
Chloromethane	ND		20.0	19.8		ug/L		99	56 - 121
cis-1,2-Dichloroethene	ND		20.0	22.0		ug/L		110	80 - 125
cis-1,3-Dichloropropene	ND		20.0	17.4		ug/L		87	75 - 120
Cyclohexane	ND		20.0	24.3		ug/L		122	68 - 126
Dibromochloromethane	ND		20.0	19.8		ug/L		99	71 - 120
Dichlorodifluoromethane	ND		20.0	15.5		ug/L		77	41 - 127
Ethylbenzene	ND		20.0	23.0		ug/L		115	80 - 120
Freon 113	ND		20.0	25.1		ug/L		126	73 - 139
Isopropylbenzene	ND	F1	20.0	24.6	F1	ug/L		123	80 - 120
Methyl acetate	ND	F2	20.0	17.6		ug/L		88	54 - 136
Methyl tertiary butyl ether	ND		20.0	20.1		ug/L		101	69 - 122
Methylcyclohexane	ND	F1	20.0	25.3	F1	ug/L		126	67 - 121
Methylene Chloride	ND		20.0	21.0		ug/L		105	80 - 120
Styrene	ND		20.0	22.4		ug/L		112	80 - 120
Tetrachloroethene	ND	F1	20.0	24.5	F1	ug/L		122	80 - 120
Toluene	ND		20.0	22.7		ug/L		114	80 - 120
trans-1,2-Dichloroethene	ND		20.0	22.2		ug/L		111	80 - 126
trans-1,3-Dichloropropene	ND		20.0	17.9		ug/L		89	67 - 120
Trichloroethene	ND		20.0	21.1		ug/L		105	80 - 120
Trichlorofluoromethane	ND		20.0	19.1		ug/L		95	55 - 135
Vinyl chloride	ND		20.0	19.6		ug/L		98	56 - 120
Xylenes, Total	ND		60.0	71.0		ug/L		118	80 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*

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

Lab Sample ID: 410-106360-3 MS
Matrix: Water
Analysis Batch: 322343

Client Sample ID: FBW001-MS_112022
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
Dibromofluoromethane (Surr)	*101*		*80 - 120*
Toluene-d8 (Surr)	*104*		*80 - 120*

Lab Sample ID: 410-106360-3 MSD
Matrix: Water
Analysis Batch: 322343

Client Sample ID: FBW001-MSD_112022
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		20.0	20.8		ug/L		104	67 - 126	4	30
1,1,2,2-Tetrachloroethane	ND		20.0	20.4		ug/L		102	72 - 120	3	30
1,1,2-Trichloroethane	ND		20.0	20.9		ug/L		104	80 - 120	3	30
1,1-Dichloroethane	ND		20.0	21.7		ug/L		109	80 - 120	2	30
1,1-Dichloroethene	ND		20.0	22.7		ug/L		113	80 - 131	0	30
1,2,4-Trichlorobenzene	ND	F1	20.0	24.4	F1	ug/L		122	63 - 120	2	30
1,2,4-Trimethylbenzene	ND		20.0	23.8		ug/L		119	75 - 120	0	30
1,2-Dibromo-3-Chloropropane	ND		20.0	16.1		ug/L		81	47 - 131	3	30
1,2-Dibromoethane	ND		20.0	21.7		ug/L		108	77 - 120	2	30
1,2-Dichlorobenzene	ND		20.0	23.6		ug/L		118	80 - 120	1	30
1,2-Dichloroethane	ND		20.0	19.6		ug/L		98	73 - 124	0	30
1,2-Dichloropropane	ND		20.0	20.4		ug/L		102	80 - 120	1	30
1,3,5-Trimethylbenzene	ND		20.0	23.9		ug/L		119	75 - 120	1	30
1,3-Dichlorobenzene	ND		20.0	23.5		ug/L		118	80 - 120	3	30
1,4-Dichlorobenzene	ND		20.0	23.1		ug/L		115	80 - 120	0	30
2-Butanone	ND		250	215		ug/L		86	59 - 135	5	30
2-Hexanone	ND		250	250		ug/L		100	56 - 135	5	30
4-Methyl-2-pentanone	ND		250	234		ug/L		94	62 - 133	6	30
Acetone	ND	cn	250	303		ug/L		121	54 - 157	0	30
Benzene	ND		20.0	22.0		ug/L		110	80 - 120	4	30
Bromodichloromethane	ND		20.0	19.3		ug/L		97	71 - 120	3	30
Bromoform	ND		20.0	18.7		ug/L		93	51 - 120	1	30
Bromomethane	ND		20.0	20.2		ug/L		101	53 - 128	2	30
Carbon disulfide	ND		20.0	24.1		ug/L		120	65 - 128	3	30
Carbon tetrachloride	ND		20.0	21.7		ug/L		108	64 - 134	6	30
Chlorobenzene	ND		20.0	22.7		ug/L		114	80 - 120	2	30
Chloroethane	ND		20.0	21.7		ug/L		108	55 - 123	6	30
Chloroform	ND		20.0	20.8		ug/L		104	80 - 120	1	30
Chloromethane	ND		20.0	20.4		ug/L		102	56 - 121	3	30
cis-1,2-Dichloroethene	ND		20.0	22.6		ug/L		113	80 - 125	3	30
cis-1,3-Dichloropropene	ND		20.0	18.5		ug/L		92	75 - 120	6	30
Cyclohexane	ND		20.0	25.3		ug/L		126	68 - 126	4	30
Dibromochloromethane	ND		20.0	19.9		ug/L		100	71 - 120	1	30
Dichlorodifluoromethane	ND		20.0	16.7		ug/L		83	41 - 127	8	30
Ethylbenzene	ND		20.0	24.0		ug/L		120	80 - 120	4	30
Freon 113	ND		20.0	25.7		ug/L		128	73 - 139	2	30
Isopropylbenzene	ND	F1	20.0	25.6	F1	ug/L		128	80 - 120	4	30
Methyl acetate	ND	F2	20.0	27.2	F2	ug/L		136	54 - 136	43	30
Methyl tertiary butyl ether	ND		20.0	20.8		ug/L		104	69 - 122	3	30
Methylcyclohexane	ND	F1	20.0	25.3	F1	ug/L		126	67 - 121	0	30

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

Lab Sample ID: 410-106360-3 MSD
Matrix: Water
Analysis Batch: 322343

Client Sample ID: FBW001-MSD_112022
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methylene Chloride	ND		20.0	20.9		ug/L		104	80 - 120	0	30
Styrene	ND		20.0	22.6		ug/L		113	80 - 120	1	30
Tetrachloroethene	ND	F1	20.0	25.4	F1	ug/L		127	80 - 120	4	30
Toluene	ND		20.0	23.2		ug/L		116	80 - 120	2	30
trans-1,2-Dichloroethene	ND		20.0	22.1		ug/L		110	80 - 126	0	30
trans-1,3-Dichloropropene	ND		20.0	19.0		ug/L		95	67 - 120	6	30
Trichloroethene	ND		20.0	20.6		ug/L		103	80 - 120	2	30
Trichlorofluoromethane	ND		20.0	19.6		ug/L		98	55 - 135	3	30
Vinyl chloride	ND		20.0	20.3		ug/L		102	56 - 120	4	30
Xylenes, Total	ND		60.0	71.8		ug/L		120	80 - 120	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 120*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 120*
Toluene-d8 (Surr)	*104*		*80 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-320749/1-A
Matrix: Water
Analysis Batch: 320818

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 320749

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dimethylphenol	ND		10	3	ug/L		11/23/22 17:30	11/24/22 19:33	1
2,4-Dinitrophenol	ND		30	10	ug/L		11/23/22 17:30	11/24/22 19:33	1
2-Chlorophenol	ND		2	0.5	ug/L		11/23/22 17:30	11/24/22 19:33	1
Carbazole	ND		2	0.5	ug/L		11/23/22 17:30	11/24/22 19:33	1
Phenol	ND		2	0.5	ug/L		11/23/22 17:30	11/24/22 19:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*90*		*10 - 150*	*11/23/22 17:30*	*11/24/22 19:33*	*1*
2-Fluorobiphenyl (Surr)	*76*		*44 - 120*	*11/23/22 17:30*	*11/24/22 19:33*	*1*
2-Fluorophenol (Surr)	*53*		*10 - 120*	*11/23/22 17:30*	*11/24/22 19:33*	*1*
Nitrobenzene-d5 (Surr)	*82*		*25 - 125*	*11/23/22 17:30*	*11/24/22 19:33*	*1*
Phenol-d5 (Surr)	*35*		*10 - 120*	*11/23/22 17:30*	*11/24/22 19:33*	*1*
p-Terphenyl-d14 (Surr)	*99*		*37 - 120*	*11/23/22 17:30*	*11/24/22 19:33*	*1*

Lab Sample ID: LCS 410-320749/2-A
Matrix: Water
Analysis Batch: 320818

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 320749

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dimethylphenol	50.0	55		ug/L		109	62 - 120
2,4-Dinitrophenol	100	100		ug/L		103	43 - 146
2-Chlorophenol	50.0	50		ug/L		99	57 - 120
Carbazole	50.0	56		ug/L		112	74 - 120
Phenol	50.0	28		ug/L		56	22 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-320749/2-A
Matrix: Water
Analysis Batch: 320818

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 320749

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*102*		*10 - 150*
2-Fluorobiphenyl (Surr)	*90*		*44 - 120*
2-Fluorophenol (Surr)	*62*		*10 - 120*
Nitrobenzene-d5 (Surr)	*91*		*25 - 125*
Phenol-d5 (Surr)	*45*		*10 - 120*
p-Terphenyl-d14 (Surr)	*107*		*37 - 120*

Lab Sample ID: LCSD 410-320749/3-A
Matrix: Water
Analysis Batch: 320818

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 320749

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4-Dimethylphenol			50.0	55		ug/L		109	62 - 120	0	30
2,4-Dinitrophenol			100	100		ug/L		101	43 - 146	2	30
2-Chlorophenol			50.0	53		ug/L		107	57 - 120	7	30
Carbazole			50.0	57		ug/L		114	74 - 120	1	30
Phenol			50.0	28		ug/L		57	22 - 120	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*101*		*10 - 150*
2-Fluorobiphenyl (Surr)	*86*		*44 - 120*
2-Fluorophenol (Surr)	*65*		*10 - 120*
Nitrobenzene-d5 (Surr)	*92*		*25 - 125*
Phenol-d5 (Surr)	*46*		*10 - 120*
p-Terphenyl-d14 (Surr)	*107*		*37 - 120*

Lab Sample ID: 410-106360-3 MS
Matrix: Water
Analysis Batch: 320818

Client Sample ID: FBW001-MS_112022
Prep Type: Total/NA
Prep Batch: 320749

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dimethylphenol	ND		52.7	57		ug/L		108	62 - 120
2,4-Dinitrophenol	ND		105	92		ug/L		88	43 - 146
2-Chlorophenol	ND		52.7	52		ug/L		99	57 - 120
Carbazole	ND		52.7	62		ug/L		117	74 - 120
Phenol	ND		52.7	30		ug/L		56	22 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*103*		*10 - 150*
2-Fluorobiphenyl (Surr)	*89*		*44 - 120*
2-Fluorophenol (Surr)	*63*		*10 - 120*
Nitrobenzene-d5 (Surr)	*89*		*25 - 125*
Phenol-d5 (Surr)	*45*		*10 - 120*
p-Terphenyl-d14 (Surr)	*106*		*37 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-106360-3 MSD
Matrix: Water
Analysis Batch: 320818

Client Sample ID: FBW001-MSD_112022
Prep Type: Total/NA
Prep Batch: 320749

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4-Dimethylphenol	ND		51.4	57		ug/L		111	62 - 120	1	30
2,4-Dinitrophenol	ND		103	100		ug/L		100	43 - 146	11	30
2-Chlorophenol	ND		51.4	51		ug/L		100	57 - 120	2	30
Carbazole	ND		51.4	61		ug/L		118	74 - 120	2	30
Phenol	ND		51.4	28		ug/L		55	22 - 120	5	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*103*		*10 - 150*
2-Fluorobiphenyl (Surr)	*90*		*44 - 120*
2-Fluorophenol (Surr)	*61*		*10 - 120*
Nitrobenzene-d5 (Surr)	*92*		*25 - 125*
Phenol-d5 (Surr)	*44*		*10 - 120*
p-Terphenyl-d14 (Surr)	*108*		*37 - 120*

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 410-320750/1-A
Matrix: Water
Analysis Batch: 321961

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 320750

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.30	0.10	ug/L		11/23/22 17:30	11/30/22 06:03	1
1-Methylnaphthalene	ND		0.050	0.020	ug/L		11/23/22 17:30	11/30/22 06:03	1
2-Methylnaphthalene	ND		0.050	0.020	ug/L		11/23/22 17:30	11/30/22 06:03	1
Acenaphthene	ND		0.050	0.010	ug/L		11/23/22 17:30	11/30/22 06:03	1
Acenaphthylene	ND		0.050	0.010	ug/L		11/23/22 17:30	11/30/22 06:03	1
Anthracene	ND		0.050	0.010	ug/L		11/23/22 17:30	11/30/22 06:03	1
Benzo[a]anthracene	ND		0.050	0.010	ug/L		11/23/22 17:30	11/30/22 06:03	1
Benzo[a]pyrene	ND		0.050	0.010	ug/L		11/23/22 17:30	11/30/22 06:03	1
Benzo[b]fluoranthene	ND		0.050	0.010	ug/L		11/23/22 17:30	11/30/22 06:03	1
Benzo[g,h,i]perylene	ND		0.050	0.010	ug/L		11/23/22 17:30	11/30/22 06:03	1
Benzo[k]fluoranthene	ND		0.050	0.010	ug/L		11/23/22 17:30	11/30/22 06:03	1
Bis(2-chloroethyl)ether	ND		0.050	0.020	ug/L		11/23/22 17:30	11/30/22 06:03	1
Bis(2-ethylhexyl) phthalate	0.0618	J	1.0	0.050	ug/L		11/23/22 17:30	11/30/22 06:03	1
Butylbenzylphthalate	ND		1.0	0.050	ug/L		11/23/22 17:30	11/30/22 06:03	1
Chrysene	ND		0.050	0.010	ug/L		11/23/22 17:30	11/30/22 06:03	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		11/23/22 17:30	11/30/22 06:03	1
Dibenzofuran	ND		0.050	0.010	ug/L		11/23/22 17:30	11/30/22 06:03	1
Diethylphthalate	ND		1.0	0.050	ug/L		11/23/22 17:30	11/30/22 06:03	1
Dimethylphthalate	ND		1.0	0.050	ug/L		11/23/22 17:30	11/30/22 06:03	1
Di-n-butyl phthalate	0.188	J	1.0	0.050	ug/L		11/23/22 17:30	11/30/22 06:03	1
Di-n-octyl phthalate	ND		1.0	0.050	ug/L		11/23/22 17:30	11/30/22 06:03	1
Fluoranthene	ND		0.050	0.010	ug/L		11/23/22 17:30	11/30/22 06:03	1
Fluorene	ND		0.050	0.010	ug/L		11/23/22 17:30	11/30/22 06:03	1
Hexachlorobenzene	ND		0.050	0.020	ug/L		11/23/22 17:30	11/30/22 06:03	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.020	ug/L		11/23/22 17:30	11/30/22 06:03	1
Naphthalene	ND		0.070	0.030	ug/L		11/23/22 17:30	11/30/22 06:03	1
N-Nitrosodimethylamine	ND		0.050	0.020	ug/L		11/23/22 17:30	11/30/22 06:03	1

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: MB 410-320750/1-A
Matrix: Water
Analysis Batch: 321961

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 320750

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	ND		0.070	0.030	ug/L		11/23/22 17:30	11/30/22 06:03	1
Pyrene	ND		0.050	0.010	ug/L		11/23/22 17:30	11/30/22 06:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Methylnaphthalene-d10 (Surr)	*79*		*36 - 111*	*11/23/22 17:30*	*11/30/22 06:03*	*1*
Benzo(a)pyrene-d12 (Surr)	*84*		*10 - 110*	*11/23/22 17:30*	*11/30/22 06:03*	*1*
Fluoranthene-d10 (Surr)	*76*		*47 - 128*	*11/23/22 17:30*	*11/30/22 06:03*	*1*

Lab Sample ID: LCS 410-320750/2-A
Matrix: Water
Analysis Batch: 321961

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 320750

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	1.00	0.478		ug/L		48	23 - 120
1-Methylnaphthalene	1.00	0.766		ug/L		77	23 - 124
2-Methylnaphthalene	1.00	0.691		ug/L		69	20 - 133
Acenaphthene	1.00	0.811		ug/L		81	42 - 120
Acenaphthylene	1.00	0.784		ug/L		78	49 - 120
Anthracene	1.00	0.856		ug/L		86	54 - 121
Benzo[a]anthracene	1.00	0.897		ug/L		90	61 - 122
Benzo[a]pyrene	1.00	0.883		ug/L		88	60 - 120
Benzo[b]fluoranthene	1.00	0.893		ug/L		89	58 - 122
Benzo[g,h,i]perylene	1.00	0.904		ug/L		90	50 - 120
Benzo[k]fluoranthene	1.00	0.922		ug/L		92	57 - 128
Bis(2-chloroethyl)ether	1.00	0.961		ug/L		96	59 - 130
Bis(2-ethylhexyl) phthalate	1.00	1.36		ug/L		136	14 - 155
Butylbenzylphthalate	1.00	0.979	J	ug/L		98	10 - 120
Chrysene	1.00	0.916		ug/L		92	55 - 123
Dibenz(a,h)anthracene	1.00	0.810		ug/L		81	50 - 121
Dibenzofuran	1.00	0.783		ug/L		78	48 - 124
Diethylphthalate	1.00	0.914	J	ug/L		91	38 - 120
Dimethylphthalate	1.00	0.900	J	ug/L		90	10 - 121
Di-n-butyl phthalate	1.00	2.33	*+	ug/L		233	46 - 125
Di-n-octyl phthalate	1.00	0.957	J	ug/L		96	22 - 130
Fluoranthene	1.00	0.808		ug/L		81	61 - 123
Fluorene	1.00	0.794		ug/L		79	55 - 120
Hexachlorobenzene	1.00	0.836		ug/L		84	20 - 120
Indeno[1,2,3-cd]pyrene	1.00	0.857		ug/L		86	47 - 143
Naphthalene	1.00	0.764		ug/L		76	20 - 120
N-Nitrosodimethylamine	1.00	0.760		ug/L		76	37 - 120
Phenanthrene	1.00	0.855		ug/L		86	59 - 120
Pyrene	1.00	0.884		ug/L		88	46 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Methylnaphthalene-d10 (Surr)	*73*		*36 - 111*
Benzo(a)pyrene-d12 (Surr)	*87*		*10 - 110*
Fluoranthene-d10 (Surr)	*74*		*47 - 128*

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCSD 410-320750/3-A
Matrix: Water
Analysis Batch: 321961

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 320750

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane			1.00	0.557		ug/L		56	23 - 120	15	30
1-Methylnaphthalene			1.00	0.795		ug/L		79	23 - 124	4	30
2-Methylnaphthalene			1.00	0.704		ug/L		70	20 - 133	2	30
Acenaphthene			1.00	0.806		ug/L		81	42 - 120	1	30
Acenaphthylene			1.00	0.783		ug/L		78	49 - 120	0	30
Anthracene			1.00	0.889		ug/L		89	54 - 121	4	30
Benzo[a]anthracene			1.00	0.919		ug/L		92	61 - 122	2	30
Benzo[a]pyrene			1.00	0.930		ug/L		93	60 - 120	5	30
Benzo[b]fluoranthene			1.00	0.946		ug/L		95	58 - 122	6	30
Benzo[g,h,i]perylene			1.00	0.918		ug/L		92	50 - 120	1	30
Benzo[k]fluoranthene			1.00	0.955		ug/L		96	57 - 128	4	30
Bis(2-chloroethyl)ether			1.00	0.956		ug/L		96	59 - 130	1	30
Bis(2-ethylhexyl) phthalate			1.00	1.19		ug/L		119	14 - 155	13	30
Butylbenzylphthalate			1.00	0.992	J	ug/L		99	10 - 120	1	30
Chrysene			1.00	0.983		ug/L		98	55 - 123	7	30
Dibenz(a,h)anthracene			1.00	0.817		ug/L		82	50 - 121	1	30
Dibenzofuran			1.00	0.791		ug/L		79	48 - 124	1	30
Diethylphthalate			1.00	0.903	J	ug/L		90	38 - 120	1	30
Dimethylphthalate			1.00	0.824	J	ug/L		82	10 - 121	9	30
Di-n-butyl phthalate			1.00	1.32	*+ *1	ug/L		132	46 - 125	55	30
Di-n-octyl phthalate			1.00	0.977	J	ug/L		98	22 - 130	2	30
Fluoranthene			1.00	0.826		ug/L		83	61 - 123	2	30
Fluorene			1.00	0.788		ug/L		79	55 - 120	1	30
Hexachlorobenzene			1.00	0.868		ug/L		87	20 - 120	4	30
Indeno[1,2,3-cd]pyrene			1.00	0.863		ug/L		86	47 - 143	1	30
Naphthalene			1.00	0.792		ug/L		79	20 - 120	4	30
N-Nitrosodimethylamine			1.00	0.787		ug/L		79	37 - 120	4	30
Phenanthrene			1.00	0.860		ug/L		86	59 - 120	1	30
Pyrene			1.00	0.958		ug/L		96	46 - 122	8	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Methylnaphthalene-d10 (Surr)	*74*		*36 - 111*
Benzo(a)pyrene-d12 (Surr)	*88*		*10 - 110*
Fluoranthene-d10 (Surr)	*75*		*47 - 128*

Lab Sample ID: 410-106360-3 MS
Matrix: Water
Analysis Batch: 321961

Client Sample ID: FBW001-MS_112022
Prep Type: Total/NA
Prep Batch: 320750

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	ND		1.04	0.487		ug/L		47	23 - 120
1-Methylnaphthalene	ND		1.04	0.855		ug/L		82	23 - 124
2-Methylnaphthalene	ND		1.04	0.746		ug/L		72	20 - 133
Acenaphthene	ND		1.04	0.823		ug/L		79	42 - 120
Acenaphthylene	ND		1.04	0.838		ug/L		81	49 - 120
Anthracene	0.013	J	1.04	0.927		ug/L		88	54 - 121
Benzo[a]anthracene	0.019	J	1.04	0.890		ug/L		84	61 - 122
Benzo[a]pyrene	0.011	J	1.04	0.855		ug/L		81	60 - 120

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 410-106360-3 MS
Matrix: Water
Analysis Batch: 321961

Client Sample ID: FBW001-MS_112022
Prep Type: Total/NA
Prep Batch: 320750

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzo[b]fluoranthene	0.015	J	1.04	0.876		ug/L		83	58 - 122
Benzo[g,h,i]perylene	0.014	J	1.04	0.759		ug/L		72	50 - 120
Benzo[k]fluoranthene	0.012	J	1.04	0.911		ug/L		86	57 - 128
Bis(2-chloroethyl)ether	ND		1.04	0.961		ug/L		92	59 - 130
Bis(2-ethylhexyl) phthalate	0.13	J B cn	1.04	1.11		ug/L		94	14 - 155
Butylbenzylphthalate	ND	cn	1.04	0.996	J	ug/L		96	10 - 120
Chrysene	0.017	J	1.04	0.883		ug/L		83	55 - 123
Dibenz(a,h)anthracene	ND		1.04	0.665		ug/L		64	50 - 121
Dibenzofuran	0.010	J	1.04	0.886		ug/L		84	48 - 124
Diethylphthalate	ND		1.04	1.08		ug/L		104	38 - 120
Dimethylphthalate	ND		1.04	0.949	J	ug/L		91	10 - 121
Di-n-butyl phthalate	0.60	J *+ F1 B *1 cn	1.04	1.73		ug/L		108	46 - 125
Di-n-octyl phthalate	ND		1.04	0.988	J	ug/L		95	22 - 130
Fluoranthene	0.018	J	1.04	0.875		ug/L		82	61 - 123
Fluorene	0.012	J	1.04	0.886		ug/L		84	55 - 120
Hexachlorobenzene	ND		1.04	0.914		ug/L		88	20 - 120
Indeno[1,2,3-cd]pyrene	ND		1.04	0.695		ug/L		67	47 - 143
Naphthalene	ND		1.04	0.851		ug/L		82	20 - 120
N-Nitrosodimethylamine	ND		1.04	0.709		ug/L		68	37 - 120
Phenanthrene	ND		1.04	0.920		ug/L		89	59 - 120
Pyrene	0.021	J	1.04	0.914		ug/L		86	46 - 122

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Methylnaphthalene-d10 (Surr)	*75*		*36 - 111*
Benzo(a)pyrene-d12 (Surr)	*78*		*10 - 110*
Fluoranthene-d10 (Surr)	*77*		*47 - 128*

Lab Sample ID: 410-106360-3 MSD
Matrix: Water
Analysis Batch: 321961

Client Sample ID: FBW001-MSD_112022
Prep Type: Total/NA
Prep Batch: 320750

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	ND		1.01	0.500		ug/L		49	23 - 120	3	30
1-Methylnaphthalene	ND		1.01	0.809		ug/L		80	23 - 124	5	30
2-Methylnaphthalene	ND		1.01	0.729		ug/L		72	20 - 133	2	30
Acenaphthene	ND		1.01	0.817		ug/L		80	42 - 120	1	30
Acenaphthylene	ND		1.01	0.811		ug/L		80	49 - 120	3	30
Anthracene	0.013	J	1.01	0.881		ug/L		85	54 - 121	5	30
Benzo[a]anthracene	0.019	J	1.01	0.891		ug/L		86	61 - 122	0	30
Benzo[a]pyrene	0.011	J	1.01	0.847		ug/L		82	60 - 120	1	30
Benzo[b]fluoranthene	0.015	J	1.01	0.817		ug/L		79	58 - 122	7	30
Benzo[g,h,i]perylene	0.014	J	1.01	0.753		ug/L		73	50 - 120	1	30
Benzo[k]fluoranthene	0.012	J	1.01	0.911		ug/L		89	57 - 128	0	30
Bis(2-chloroethyl)ether	ND		1.01	0.942		ug/L		93	59 - 130	2	30
Bis(2-ethylhexyl) phthalate	0.13	J B cn	1.01	1.12		ug/L		97	14 - 155	0	30
Butylbenzylphthalate	ND	cn	1.01	0.952	J	ug/L		94	10 - 120	5	30
Chrysene	0.017	J	1.01	0.926		ug/L		90	55 - 123	5	30
Dibenz(a,h)anthracene	ND		1.01	0.619		ug/L		61	50 - 121	7	30

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 410-106360-3 MSD
Matrix: Water
Analysis Batch: 321961

Client Sample ID: FBW001-MSD_112022
Prep Type: Total/NA
Prep Batch: 320750

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dibenzofuran	0.010	J	1.01	0.819		ug/L		80	48 - 124	8	30
Diethylphthalate	ND		1.01	0.959	J	ug/L		95	38 - 120	12	30
Dimethylphthalate	ND		1.01	0.912	J	ug/L		90	10 - 121	4	30
Di-n-butyl phthalate	0.60	J *+ F1 B *1 cn	1.01	1.91	F1	ug/L		129	46 - 125	10	30
Di-n-octyl phthalate	ND		1.01	0.858	J	ug/L		85	22 - 130	14	30
Fluoranthene	0.018	J	1.01	0.801		ug/L		77	61 - 123	9	30
Fluorene	0.012	J	1.01	0.819		ug/L		80	55 - 120	8	30
Hexachlorobenzene	ND		1.01	0.952		ug/L		94	20 - 120	4	30
Indeno[1,2,3-cd]pyrene	ND		1.01	0.676		ug/L		67	47 - 143	3	30
Naphthalene	ND		1.01	0.790		ug/L		78	20 - 120	7	30
N-Nitrosodimethylamine	ND		1.01	0.786		ug/L		77	37 - 120	10	30
Phenanthrene	ND		1.01	0.886		ug/L		87	59 - 120	4	30
Pyrene	0.021	J	1.01	0.941		ug/L		91	46 - 122	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Methylnaphthalene-d10 (Surr)	*75*		*36 - 111*
Benzo(a)pyrene-d12 (Surr)	*77*		*10 - 110*
Fluoranthene-d10 (Surr)	*73*		*47 - 128*

Lab Sample ID: MB 410-323309/1-A
Matrix: Water
Analysis Batch: 323522

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 323309

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.30	0.10	ug/L		12/03/22 03:22	12/05/22 06:30	1
1-Methylnaphthalene	ND		0.050	0.020	ug/L		12/03/22 03:22	12/05/22 06:30	1
2-Methylnaphthalene	ND		0.050	0.020	ug/L		12/03/22 03:22	12/05/22 06:30	1
Acenaphthene	ND		0.050	0.010	ug/L		12/03/22 03:22	12/05/22 06:30	1
Acenaphthylene	ND		0.050	0.010	ug/L		12/03/22 03:22	12/05/22 06:30	1
Anthracene	ND		0.050	0.010	ug/L		12/03/22 03:22	12/05/22 06:30	1
Benzo[a]anthracene	ND		0.050	0.010	ug/L		12/03/22 03:22	12/05/22 06:30	1
Benzo[a]pyrene	ND		0.050	0.010	ug/L		12/03/22 03:22	12/05/22 06:30	1
Benzo[b]fluoranthene	ND		0.050	0.010	ug/L		12/03/22 03:22	12/05/22 06:30	1
Benzo[g,h,i]perylene	ND		0.050	0.010	ug/L		12/03/22 03:22	12/05/22 06:30	1
Benzo[k]fluoranthene	ND		0.050	0.010	ug/L		12/03/22 03:22	12/05/22 06:30	1
Bis(2-chloroethyl)ether	ND		0.050	0.020	ug/L		12/03/22 03:22	12/05/22 06:30	1
Bis(2-ethylhexyl) phthalate	0.317	J	1.0	0.050	ug/L		12/03/22 03:22	12/05/22 06:30	1
Butylbenzylphthalate	ND		1.0	0.050	ug/L		12/03/22 03:22	12/05/22 06:30	1
Chrysene	ND		0.050	0.010	ug/L		12/03/22 03:22	12/05/22 06:30	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		12/03/22 03:22	12/05/22 06:30	1
Dibenzofuran	ND		0.050	0.010	ug/L		12/03/22 03:22	12/05/22 06:30	1
Diethylphthalate	ND		1.0	0.050	ug/L		12/03/22 03:22	12/05/22 06:30	1
Dimethylphthalate	ND		1.0	0.050	ug/L		12/03/22 03:22	12/05/22 06:30	1
Di-n-butyl phthalate	3.21		1.0	0.050	ug/L		12/03/22 03:22	12/05/22 06:30	1
Di-n-octyl phthalate	ND		1.0	0.050	ug/L		12/03/22 03:22	12/05/22 06:30	1
Fluoranthene	ND		0.050	0.010	ug/L		12/03/22 03:22	12/05/22 06:30	1
Fluorene	ND		0.050	0.010	ug/L		12/03/22 03:22	12/05/22 06:30	1
Hexachlorobenzene	ND		0.050	0.020	ug/L		12/03/22 03:22	12/05/22 06:30	1

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: MB 410-323309/1-A
Matrix: Water
Analysis Batch: 323522

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 323309

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	ND		0.050	0.020	ug/L		12/03/22 03:22	12/05/22 06:30	1
Naphthalene	ND		0.070	0.030	ug/L		12/03/22 03:22	12/05/22 06:30	1
N-Nitrosodimethylamine	ND		0.050	0.020	ug/L		12/03/22 03:22	12/05/22 06:30	1
Phenanthrene	ND		0.070	0.030	ug/L		12/03/22 03:22	12/05/22 06:30	1
Pyrene	ND		0.050	0.010	ug/L		12/03/22 03:22	12/05/22 06:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Methylnaphthalene-d10 (Surr)	*57*		*36 - 111*	*12/03/22 03:22*	*12/05/22 06:30*	*1*
Benzo(a)pyrene-d12 (Surr)	*66*		*10 - 110*	*12/03/22 03:22*	*12/05/22 06:30*	*1*
Fluoranthene-d10 (Surr)	*60*		*47 - 128*	*12/03/22 03:22*	*12/05/22 06:30*	*1*

Lab Sample ID: LCS 410-323309/2-A
Matrix: Water
Analysis Batch: 323522

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 323309

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	1.00	0.432		ug/L		43	23 - 120
1-Methylnaphthalene	1.00	0.678		ug/L		68	23 - 124
2-Methylnaphthalene	1.00	0.619		ug/L		62	20 - 133
Acenaphthene	1.00	0.698		ug/L		70	42 - 120
Acenaphthylene	1.00	0.718		ug/L		72	49 - 120
Anthracene	1.00	0.756		ug/L		76	54 - 121
Benzo[a]anthracene	1.00	0.834		ug/L		83	61 - 122
Benzo[a]pyrene	1.00	0.847		ug/L		85	60 - 120
Benzo[b]fluoranthene	1.00	0.777		ug/L		78	58 - 122
Benzo[g,h,i]perylene	1.00	0.811		ug/L		81	50 - 120
Benzo[k]fluoranthene	1.00	0.918		ug/L		92	57 - 128
Bis(2-chloroethyl)ether	1.00	0.847		ug/L		85	59 - 130
Bis(2-ethylhexyl) phthalate	1.00	0.779	J	ug/L		78	14 - 155
Butylbenzylphthalate	1.00	0.420	J	ug/L		42	10 - 120
Chrysene	1.00	0.857		ug/L		86	55 - 123
Dibenz(a,h)anthracene	1.00	0.764		ug/L		76	50 - 121
Dibenzofuran	1.00	0.742		ug/L		74	48 - 124
Diethylphthalate	1.00	0.630	J	ug/L		63	38 - 120
Dimethylphthalate	1.00	0.257	J	ug/L		26	10 - 121
Di-n-butyl phthalate	1.00	1.57	*+	ug/L		157	46 - 125
Di-n-octyl phthalate	1.00	0.730	J	ug/L		73	22 - 130
Fluoranthene	1.00	0.768		ug/L		77	61 - 123
Fluorene	1.00	0.724		ug/L		72	55 - 120
Hexachlorobenzene	1.00	0.762		ug/L		76	20 - 120
Indeno[1,2,3-cd]pyrene	1.00	0.760		ug/L		76	47 - 143
Naphthalene	1.00	0.699		ug/L		70	20 - 120
N-Nitrosodimethylamine	1.00	0.633		ug/L		63	37 - 120
Phenanthrene	1.00	0.776		ug/L		78	59 - 120
Pyrene	1.00	0.863		ug/L		86	46 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Methylnaphthalene-d10 (Surr)	*68*		*36 - 111*

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 410-323309/2-A
Matrix: Water
Analysis Batch: 323522

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 323309

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Benzo(a)pyrene-d12 (Surr)	84		10 - 110
Fluoranthene-d10 (Surr)	75		47 - 128

Lab Sample ID: LCSD 410-323309/3-A
Matrix: Water
Analysis Batch: 323522

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 323309

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane			1.00	0.382		ug/L		38	23 - 120	12	30
1-Methylnaphthalene			1.00	0.700		ug/L		70	23 - 124	3	30
2-Methylnaphthalene			1.00	0.616		ug/L		62	20 - 133	0	30
Acenaphthene			1.00	0.716		ug/L		72	42 - 120	3	30
Acenaphthylene			1.00	0.741		ug/L		74	49 - 120	3	30
Anthracene			1.00	0.796		ug/L		80	54 - 121	5	30
Benzo[a]anthracene			1.00	0.870		ug/L		87	61 - 122	4	30
Benzo[a]pyrene			1.00	0.860		ug/L		86	60 - 120	1	30
Benzo[b]fluoranthene			1.00	0.787		ug/L		79	58 - 122	1	30
Benzo[g,h,i]perylene			1.00	0.868		ug/L		87	50 - 120	7	30
Benzo[k]fluoranthene			1.00	0.953		ug/L		95	57 - 128	4	30
Bis(2-chloroethyl)ether			1.00	0.853		ug/L		85	59 - 130	1	30
Bis(2-ethylhexyl) phthalate			1.00	0.831	J	ug/L		83	14 - 155	6	30
Butylbenzylphthalate			1.00	0.525	J	ug/L		52	10 - 120	22	30
Chrysene			1.00	0.862		ug/L		86	55 - 123	1	30
Dibenz(a,h)anthracene			1.00	0.780		ug/L		78	50 - 121	2	30
Dibenzofuran			1.00	0.763		ug/L		76	48 - 124	3	30
Diethylphthalate			1.00	0.774	J	ug/L		77	38 - 120	21	30
Dimethylphthalate			1.00	0.426	J *1	ug/L		43	10 - 121	49	30
Di-n-butyl phthalate			1.00	0.890	J *1	ug/L		89	46 - 125	55	30
Di-n-octyl phthalate			1.00	0.743	J	ug/L		74	22 - 130	2	30
Fluoranthene			1.00	0.811		ug/L		81	61 - 123	5	30
Fluorene			1.00	0.764		ug/L		76	55 - 120	5	30
Hexachlorobenzene			1.00	0.763		ug/L		76	20 - 120	0	30
Indeno[1,2,3-cd]pyrene			1.00	0.796		ug/L		80	47 - 143	5	30
Naphthalene			1.00	0.713		ug/L		71	20 - 120	2	30
N-Nitrosodimethylamine			1.00	0.578		ug/L		58	37 - 120	9	30
Phenanthrene			1.00	0.801		ug/L		80	59 - 120	3	30
Pyrene			1.00	0.861		ug/L		86	46 - 122	0	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Methylnaphthalene-d10 (Surr)	68		36 - 111
Benzo(a)pyrene-d12 (Surr)	89		10 - 110
Fluoranthene-d10 (Surr)	79		47 - 128

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) - RE

Lab Sample ID: 410-106360-3 MS
Matrix: Water
Analysis Batch: 323522

Client Sample ID: FBW001-MS_112022
Prep Type: Total/NA
Prep Batch: 323309

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane - RE	ND	H	1.05	0.320	H	ug/L		31	23 - 120
1-Methylnaphthalene - RE	ND	H	1.05	0.557	H	ug/L		53	23 - 124
2-Methylnaphthalene - RE	ND	H	1.05	0.477	H	ug/L		46	20 - 133
Acenaphthene - RE	ND	H	1.05	0.574	H	ug/L		55	42 - 120
Acenaphthylene - RE	ND	H	1.05	0.586	H	ug/L		56	49 - 120
Anthracene - RE	ND	H	1.05	0.813	H	ug/L		78	54 - 121
Benzo[a]anthracene - RE	ND	H	1.05	0.841	H	ug/L		80	61 - 122
Benzo[a]pyrene - RE	ND	H	1.05	0.819	H	ug/L		78	60 - 120
Benzo[b]fluoranthene - RE	ND	H	1.05	0.800	H	ug/L		76	58 - 122
Benzo[g,h,i]perylene - RE	ND	H	1.05	0.663	H	ug/L		63	50 - 120
Benzo[k]fluoranthene - RE	ND	H	1.05	0.854	H	ug/L		82	57 - 128
Bis(2-chloroethyl)ether - RE	ND	H F1	1.05	0.671	H	ug/L		64	59 - 130
Bis(2-ethylhexyl) phthalate - RE	0.16	J H B	1.05	0.839	J H	ug/L		65	14 - 155
Butylbenzylphthalate - RE	ND	H	1.05	0.617	J H	ug/L		59	10 - 120
Chrysene - RE	ND	H	1.05	0.879	H	ug/L		84	55 - 123
Dibenz(a,h)anthracene - RE	ND	H	1.05	0.664	H	ug/L		63	50 - 121
Dibenzofuran - RE	ND	H	1.05	0.657	H	ug/L		63	48 - 124
Diethylphthalate - RE	ND	H	1.05	0.745	J H	ug/L		71	38 - 120
Dimethylphthalate - RE	ND	H *1	1.05	0.396	J H	ug/L		38	10 - 121
Di-n-butyl phthalate - RE	2.5	H B *+ *1 F1	1.05	2.50	H F1	ug/L		3	46 - 125
Di-n-octyl phthalate - RE	ND	H	1.05	0.631	J H	ug/L		60	22 - 130
Fluoranthene - RE	ND	H	1.05	0.823	H	ug/L		79	61 - 123
Fluorene - RE	ND	H	1.05	0.701	H	ug/L		67	55 - 120
Hexachlorobenzene - RE	ND	H	1.05	0.702	H	ug/L		67	20 - 120
Indeno[1,2,3-cd]pyrene - RE	ND	H	1.05	0.638	H	ug/L		61	47 - 143
Naphthalene - RE	ND	H	1.05	0.549	H	ug/L		52	20 - 120
N-Nitrosodimethylamine - RE	ND	H	1.05	0.478	H	ug/L		46	37 - 120
Phenanthrene - RE	ND	H	1.05	0.791	H	ug/L		76	59 - 120
Pyrene - RE	ND	H	1.05	0.856	H	ug/L		82	46 - 122

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Methylnaphthalene-d10 (Surr) - RE	*52*		*36 - 111*
Benzo(a)pyrene-d12 (Surr) - RE	*78*		*10 - 110*
Fluoranthene-d10 (Surr) - RE	*76*		*47 - 128*

Lab Sample ID: 410-106360-3 MSD
Matrix: Water
Analysis Batch: 323522

Client Sample ID: FBW001-MSD_112022
Prep Type: Total/NA
Prep Batch: 323309

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane - RE	ND	H	1.06	0.252	J H	ug/L		24	23 - 120	24	30
1-Methylnaphthalene - RE	ND	H	1.06	0.550	H	ug/L		52	23 - 124	1	30
2-Methylnaphthalene - RE	ND	H	1.06	0.478	H	ug/L		45	20 - 133	0	30
Acenaphthene - RE	ND	H	1.06	0.584	H	ug/L		55	42 - 120	2	30
Acenaphthylene - RE	ND	H	1.06	0.576	H	ug/L		54	49 - 120	2	30
Anthracene - RE	ND	H	1.06	0.758	H	ug/L		71	54 - 121	7	30
Benzo[a]anthracene - RE	ND	H	1.06	0.862	H	ug/L		81	61 - 122	2	30

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) - RE (Continued)

Lab Sample ID: 410-106360-3 MSD
Matrix: Water
Analysis Batch: 323522

Client Sample ID: FBW001-MSD_112022
Prep Type: Total/NA
Prep Batch: 323309

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzo[a]pyrene - RE	ND	H	1.06	0.850	H	ug/L		80	60 - 120	4	30
Benzo[b]fluoranthene - RE	ND	H	1.06	0.831	H	ug/L		78	58 - 122	4	30
Benzo[g,h,i]perylene - RE	ND	H	1.06	0.681	H	ug/L		64	50 - 120	3	30
Benzo[k]fluoranthene - RE	ND	H	1.06	0.882	H	ug/L		83	57 - 128	3	30
Bis(2-chloroethyl)ether - RE	ND	H F1	1.06	0.613	H F1	ug/L		58	59 - 130	9	30
Bis(2-ethylhexyl) phthalate - RE	0.16	J H B	1.06	0.826	J H	ug/L		63	14 - 155	2	30
Butylbenzylphthalate - RE	ND	H	1.06	0.463	J H	ug/L		44	10 - 120	29	30
Chrysene - RE	ND	H	1.06	0.886	H	ug/L		83	55 - 123	1	30
Dibenz(a,h)anthracene - RE	ND	H	1.06	0.660	H	ug/L		62	50 - 121	1	30
Dibenzofuran - RE	ND	H	1.06	0.630	H	ug/L		59	48 - 124	4	30
Diethylphthalate - RE	ND	H	1.06	0.670	J H	ug/L		63	38 - 120	11	30
Dimethylphthalate - RE	ND	H *1	1.06	0.297	J H	ug/L		28	10 - 121	29	30
Di-n-butyl phthalate - RE	2.5	H B *+ *1 F1	1.06	2.72	H F1	ug/L		24	46 - 125	9	30
Di-n-octyl phthalate - RE	ND	H	1.06	0.634	J H	ug/L		60	22 - 130	0	30
Fluoranthene - RE	ND	H	1.06	0.800	H	ug/L		75	61 - 123	3	30
Fluorene - RE	ND	H	1.06	0.655	H	ug/L		62	55 - 120	7	30
Hexachlorobenzene - RE	ND	H	1.06	0.667	H	ug/L		63	20 - 120	5	30
Indeno[1,2,3-cd]pyrene - RE	ND	H	1.06	0.634	H	ug/L		60	47 - 143	1	30
Naphthalene - RE	ND	H	1.06	0.510	H	ug/L		48	20 - 120	8	30
N-Nitrosodimethylamine - RE	ND	H	1.06	0.406	H	ug/L		38	37 - 120	16	30
Phenanthrene - RE	ND	H	1.06	0.742	H	ug/L		70	59 - 120	6	30
Pyrene - RE	ND	H	1.06	0.915	H	ug/L		86	46 - 122	7	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Methylnaphthalene-d10 (Surr) - RE	*50*		*36 - 111*
Benzo(a)pyrene-d12 (Surr) - RE	*79*		*10 - 110*
Fluoranthene-d10 (Surr) - RE	*75*		*47 - 128*

GC/MS VOA

Analysis Batch: 322343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-106360-1	FBS010_112022	Total/NA	Water	8260C	
410-106360-2	DUP-01_112022	Total/NA	Water	8260C	
410-106360-3	FBW001_112022	Total/NA	Water	8260C	
410-106360-4	FBW001_FB_112022	Total/NA	Water	8260C	
410-106360-5	Trip Blank	Total/NA	Water	8260C	
MB 410-322343/7	Method Blank	Total/NA	Water	8260C	
LCS 410-322343/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 410-322343/5	Lab Control Sample Dup	Total/NA	Water	8260C	
410-106360-3 MS	FBW001-MS_112022	Total/NA	Water	8260C	
410-106360-3 MSD	FBW001-MSD_112022	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 320749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-106360-1	FBS010_112022	Total/NA	Water	3510C	
410-106360-2	DUP-01_112022	Total/NA	Water	3510C	
410-106360-3	FBW001_112022	Total/NA	Water	3510C	
410-106360-4	FBW001_FB_112022	Total/NA	Water	3510C	
MB 410-320749/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-320749/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 410-320749/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
410-106360-3 MS	FBW001-MS_112022	Total/NA	Water	3510C	
410-106360-3 MSD	FBW001-MSD_112022	Total/NA	Water	3510C	

Prep Batch: 320750

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-106360-1 - RA	FBS010_112022	Total/NA	Water	3510C	
410-106360-1	FBS010_112022	Total/NA	Water	3510C	
410-106360-2 - RA	DUP-01_112022	Total/NA	Water	3510C	
410-106360-2	DUP-01_112022	Total/NA	Water	3510C	
410-106360-3 - RA	FBW001_112022	Total/NA	Water	3510C	
410-106360-3	FBW001_112022	Total/NA	Water	3510C	
410-106360-4 - RA	FBW001_FB_112022	Total/NA	Water	3510C	
410-106360-4	FBW001_FB_112022	Total/NA	Water	3510C	
MB 410-320750/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-320750/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 410-320750/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
410-106360-3 MS	FBW001-MS_112022	Total/NA	Water	3510C	
410-106360-3 MSD	FBW001-MSD_112022	Total/NA	Water	3510C	

Analysis Batch: 320818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-106360-1	FBS010_112022	Total/NA	Water	8270D	320749
410-106360-2	DUP-01_112022	Total/NA	Water	8270D	320749
410-106360-3	FBW001_112022	Total/NA	Water	8270D	320749
410-106360-4	FBW001_FB_112022	Total/NA	Water	8270D	320749
MB 410-320749/1-A	Method Blank	Total/NA	Water	8270D	320749
LCS 410-320749/2-A	Lab Control Sample	Total/NA	Water	8270D	320749
LCSD 410-320749/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	320749
410-106360-3 MS	FBW001-MS_112022	Total/NA	Water	8270D	320749

GC/MS Semi VOA (Continued)

Analysis Batch: 320818 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-106360-3 MSD	FBW001-MSD_112022	Total/NA	Water	8270D	320749

Analysis Batch: 321961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-106360-1	FBS010_112022	Total/NA	Water	8270D SIM	320750
410-106360-2	DUP-01_112022	Total/NA	Water	8270D SIM	320750
410-106360-3	FBW001_112022	Total/NA	Water	8270D SIM	320750
410-106360-4	FBW001_FB_112022	Total/NA	Water	8270D SIM	320750
MB 410-320750/1-A	Method Blank	Total/NA	Water	8270D SIM	320750
LCS 410-320750/2-A	Lab Control Sample	Total/NA	Water	8270D SIM	320750
LCSD 410-320750/3-A	Lab Control Sample Dup	Total/NA	Water	8270D SIM	320750
410-106360-3 MS	FBW001-MS_112022	Total/NA	Water	8270D SIM	320750
410-106360-3 MSD	FBW001-MSD_112022	Total/NA	Water	8270D SIM	320750

Analysis Batch: 322405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-106360-1 - RA	FBS010_112022	Total/NA	Water	8270D SIM	320750
410-106360-2 - RA	DUP-01_112022	Total/NA	Water	8270D SIM	320750
410-106360-3 - RA	FBW001_112022	Total/NA	Water	8270D SIM	320750
410-106360-4 - RA	FBW001_FB_112022	Total/NA	Water	8270D SIM	320750

Prep Batch: 323309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-106360-1 - RE	FBS010_112022	Total/NA	Water	3510C	
410-106360-2 - RE	DUP-01_112022	Total/NA	Water	3510C	
410-106360-3 - RE	FBW001_112022	Total/NA	Water	3510C	
410-106360-4 - RE	FBW001_FB_112022	Total/NA	Water	3510C	
MB 410-323309/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-323309/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 410-323309/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
410-106360-3 MS - RE	FBW001-MS_112022	Total/NA	Water	3510C	
410-106360-3 MSD - RE	FBW001-MSD_112022	Total/NA	Water	3510C	

Analysis Batch: 323522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-106360-1 - RE	FBS010_112022	Total/NA	Water	8270D SIM	323309
410-106360-2 - RE	DUP-01_112022	Total/NA	Water	8270D SIM	323309
410-106360-3 - RE	FBW001_112022	Total/NA	Water	8270D SIM	323309
410-106360-4 - RE	FBW001_FB_112022	Total/NA	Water	8270D SIM	323309
MB 410-323309/1-A	Method Blank	Total/NA	Water	8270D SIM	323309
LCS 410-323309/2-A	Lab Control Sample	Total/NA	Water	8270D SIM	323309
LCSD 410-323309/3-A	Lab Control Sample Dup	Total/NA	Water	8270D SIM	323309
410-106360-3 MS - RE	FBW001-MS_112022	Total/NA	Water	8270D SIM	323309
410-106360-3 MSD - RE	FBW001-MSD_112022	Total/NA	Water	8270D SIM	323309

Lab Chronicle

Client: Environmental Works, Inc.
Project/Site: Springfield, MO – OFIWP

Job ID: 410-106360-1

Client Sample ID: FBS010_112022

Lab Sample ID: 410-106360-1

Date Collected: 11/17/22 10:33

Matrix: Water

Date Received: 11/18/22 09:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	322343	K4WN	ELLE	12/01/22 00:10
Total/NA	Prep	3510C			320749	QJZ6	ELLE	11/23/22 17:30
Total/NA	Analysis	8270D		1	320818	P7EB	ELLE	11/25/22 00:33
Total/NA	Prep	3510C	RA		320750	QJZ6	ELLE	11/23/22 17:30
Total/NA	Analysis	8270D SIM	RA	1	322405	UJM0	ELLE	12/01/22 07:26
Total/NA	Prep	3510C			320750	QJZ6	ELLE	11/23/22 17:30
Total/NA	Analysis	8270D SIM		1	321961	UJM0	ELLE	11/30/22 15:32
Total/NA	Prep	3510C	RE		323309	UKQ8	ELLE	12/03/22 03:22
Total/NA	Analysis	8270D SIM	RE	1	323522	SJ89	ELLE	12/05/22 10:27

Client Sample ID: DUP-01_112022

Lab Sample ID: 410-106360-2

Date Collected: 11/17/22 12:00

Matrix: Water

Date Received: 11/18/22 09:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	322343	K4WN	ELLE	12/01/22 00:30
Total/NA	Prep	3510C			320749	QJZ6	ELLE	11/23/22 17:30
Total/NA	Analysis	8270D		1	320818	P7EB	ELLE	11/25/22 00:53
Total/NA	Prep	3510C	RA		320750	QJZ6	ELLE	11/23/22 17:30
Total/NA	Analysis	8270D SIM	RA	1	322405	UJM0	ELLE	12/01/22 07:47
Total/NA	Prep	3510C			320750	QJZ6	ELLE	11/23/22 17:30
Total/NA	Analysis	8270D SIM		1	321961	UJM0	ELLE	11/30/22 15:54
Total/NA	Prep	3510C	RE		323309	UKQ8	ELLE	12/03/22 03:22
Total/NA	Analysis	8270D SIM	RE	1	323522	SJ89	ELLE	12/05/22 10:49

Client Sample ID: FBW001_112022

Lab Sample ID: 410-106360-3

Date Collected: 11/17/22 10:20

Matrix: Water

Date Received: 11/18/22 09:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	322343	K4WN	ELLE	11/30/22 22:51
Total/NA	Prep	3510C			320749	QJZ6	ELLE	11/23/22 17:30
Total/NA	Analysis	8270D		1	320818	P7EB	ELLE	11/24/22 22:13
Total/NA	Prep	3510C	RA		320750	QJZ6	ELLE	11/23/22 17:30
Total/NA	Analysis	8270D SIM	RA	1	322405	UJM0	ELLE	12/01/22 06:22
Total/NA	Prep	3510C			320750	QJZ6	ELLE	11/23/22 17:30
Total/NA	Analysis	8270D SIM		1	321961	UJM0	ELLE	11/30/22 09:38
Total/NA	Prep	3510C	RE		323309	UKQ8	ELLE	12/03/22 03:22
Total/NA	Analysis	8270D SIM	RE	1	323522	SJ89	ELLE	12/05/22 11:11

Lab Chronicle

Client: Environmental Works, Inc.
Project/Site: Springfield, MO – OFIWP

Job ID: 410-106360-1

Client Sample ID: FBW001_FB_112022

Lab Sample ID: 410-106360-4

Date Collected: 11/17/22 10:14

Matrix: Water

Date Received: 11/18/22 09:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	322343	K4WN	ELLE	11/30/22 21:33
Total/NA	Prep	3510C			320749	QJZ6	ELLE	11/23/22 17:30
Total/NA	Analysis	8270D		1	320818	P7EB	ELLE	11/25/22 01:13
Total/NA	Prep	3510C	RA		320750	QJZ6	ELLE	11/23/22 17:30
Total/NA	Analysis	8270D SIM	RA	1	322405	UJM0	ELLE	12/01/22 08:08
Total/NA	Prep	3510C			320750	QJZ6	ELLE	11/23/22 17:30
Total/NA	Analysis	8270D SIM		1	321961	UJM0	ELLE	11/30/22 16:15
Total/NA	Prep	3510C	RE		323309	UKQ8	ELLE	12/03/22 03:22
Total/NA	Analysis	8270D SIM	RE	1	323522	SJ89	ELLE	12/05/22 12:16

Client Sample ID: Trip Blank

Lab Sample ID: 410-106360-5

Date Collected: 11/17/22 00:00

Matrix: Water

Date Received: 11/18/22 09:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	322343	K4WN	ELLE	11/30/22 21:53

Laboratory References:

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

Accreditation/Certification Summary

Client: Environmental Works, Inc.
Project/Site: Springfield, MO – OFIWP

Job ID: 410-106360-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Missouri	State	450	01-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260C		Water	1,1,1-Trichloroethane
8260C		Water	1,1,2,2-Tetrachloroethane
8260C		Water	1,1,2-Trichloroethane
8260C		Water	1,1-Dichloroethane
8260C		Water	1,1-Dichloroethene
8260C		Water	1,2,4-Trichlorobenzene
8260C		Water	1,2,4-Trimethylbenzene
8260C		Water	1,2-Dibromo-3-Chloropropane
8260C		Water	1,2-Dibromoethane
8260C		Water	1,2-Dichlorobenzene
8260C		Water	1,2-Dichloroethane
8260C		Water	1,2-Dichloropropane
8260C		Water	1,3,5-Trimethylbenzene
8260C		Water	1,3-Dichlorobenzene
8260C		Water	1,4-Dichlorobenzene
8260C		Water	2-Butanone
8260C		Water	2-Hexanone
8260C		Water	4-Methyl-2-pentanone
8260C		Water	Acetone
8260C		Water	Benzene
8260C		Water	Bromodichloromethane
8260C		Water	Bromoform
8260C		Water	Bromomethane
8260C		Water	Carbon disulfide
8260C		Water	Carbon tetrachloride
8260C		Water	Chlorobenzene
8260C		Water	Chloroethane
8260C		Water	Chloroform
8260C		Water	Chloromethane
8260C		Water	cis-1,2-Dichloroethene
8260C		Water	cis-1,3-Dichloropropene
8260C		Water	Cyclohexane
8260C		Water	Dibromochloromethane
8260C		Water	Dichlorodifluoromethane
8260C		Water	Ethylbenzene
8260C		Water	Freon 113
8260C		Water	Isopropylbenzene
8260C		Water	Methyl acetate
8260C		Water	Methyl tertiary butyl ether
8260C		Water	Methylcyclohexane
8260C		Water	Methylene Chloride
8260C		Water	Styrene
8260C		Water	Tetrachloroethene
8260C		Water	Toluene
8260C		Water	trans-1,2-Dichloroethene

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260C		Water	trans-1,3-Dichloropropene
8260C		Water	Trichloroethene
8260C		Water	Trichlorofluoromethane
8260C		Water	Vinyl chloride
8260C		Water	Xylenes, Total
8270D	3510C	Water	2,4-Dimethylphenol
8270D	3510C	Water	2,4-Dinitrophenol
8270D	3510C	Water	2-Chlorophenol
8270D	3510C	Water	Carbazole
8270D	3510C	Water	Phenol
8270D SIM	3510C	Water	1,4-Dioxane
8270D SIM	3510C	Water	1-Methylnaphthalene
8270D SIM	3510C	Water	2-Methylnaphthalene
8270D SIM	3510C	Water	Acenaphthene
8270D SIM	3510C	Water	Acenaphthylene
8270D SIM	3510C	Water	Anthracene
8270D SIM	3510C	Water	Benzo[a]anthracene
8270D SIM	3510C	Water	Benzo[a]pyrene
8270D SIM	3510C	Water	Benzo[b]fluoranthene
8270D SIM	3510C	Water	Benzo[g,h,i]perylene
8270D SIM	3510C	Water	Benzo[k]fluoranthene
8270D SIM	3510C	Water	Bis(2-chloroethyl)ether
8270D SIM	3510C	Water	Bis(2-ethylhexyl) phthalate
8270D SIM	3510C	Water	Butylbenzylphthalate
8270D SIM	3510C	Water	Chrysene
8270D SIM	3510C	Water	Dibenz(a,h)anthracene
8270D SIM	3510C	Water	Dibenzofuran
8270D SIM	3510C	Water	Diethylphthalate
8270D SIM	3510C	Water	Dimethylphthalate
8270D SIM	3510C	Water	Di-n-butyl phthalate
8270D SIM	3510C	Water	Di-n-octyl phthalate
8270D SIM	3510C	Water	Fluoranthene
8270D SIM	3510C	Water	Fluorene
8270D SIM	3510C	Water	Hexachlorobenzene
8270D SIM	3510C	Water	Indeno[1,2,3-cd]pyrene
8270D SIM	3510C	Water	Naphthalene
8270D SIM	3510C	Water	N-Nitrosodimethylamine
8270D SIM	3510C	Water	Phenanthrene
8270D SIM	3510C	Water	Pyrene

Method Summary

Client: Environmental Works, Inc.
Project/Site: Springfield, MO – OFIWP

Job ID: 410-106360-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	ELLE
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	ELLE
8270D SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	ELLE
3510C	Liquid-Liquid Extraction (Separatory Funnel)	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: Environmental Works, Inc.
Project/Site: Springfield, MO – OFIWP

Job ID: 410-106360-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-106360-1	FBS010_112022	Water	11/17/22 10:33	11/18/22 09:58
410-106360-2	DUP-01_112022	Water	11/17/22 12:00	11/18/22 09:58
410-106360-3	FBW001_112022	Water	11/17/22 10:20	11/18/22 09:58
410-106360-4	FBW001_FB_112022	Water	11/17/22 10:14	11/18/22 09:58
410-106360-5	Trip Blank	Water	11/17/22 00:00	11/18/22 09:58

410-106360 Chain of Custody

Chain of Custody Record

eurofins | Environment Testing America

Client Contact: Key Kincannon Ryley Gardner	Sampler: Hailey Mallett	Lab PM: Brown, Nicole	Carrier Tracking No(s): 816724522234	COC No: 410-67994-14132.1
Company: Environmental Works, Inc.	Phone:	E-Mail: Nicole.Brown@et.eurofinsus.com	State of Origin: MO	Page: Page 1 of 1
Address: 1455 East Chestnut Expressway	PWSID:	Analysis Requested		Job #:
City: Springfield	Due Date Requested: Standard			Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify), Other:
State, Zip: MO, 65802	TAT Requested (days): Standard			
Phone: 406-457-2142(Tel)	Compliance Project: Δ Yes Δ No			
Email: rgardner@environmentalworks.com ~~kkincannon@environmentalworks.com~~	PO #: SPRINGFIELD, MO			
Project Name: Springfield, MO – OFIWP	WO #:			
Site:	Project #: 41006923			
	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	8260C - Springfield, MO - 8260C TCL4.3 + TMB	8270D, 8270D_SIM	Total Number of containers	Special Instructions/Note:
FBS010_112022	11/17/22	1033	G	Water		3	4		
DUP-01_112022		1020		Water					
FBW001_112022		1020		Water					
FBW001-MS_112022		1012		Water					
FBW001-MSD_112022		1017		Water					
FBW001_FB_112022		1014		Water					
				Water					
Trip Blank	Lab Prep			Water		2			

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) II, IV

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Edna Hernandez	10/20/22 10:10				
Hailey Mallett	11/17/22	EWI			
				11/16/22 0958	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 0.9

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Environmental Works, Inc.

Job Number: 410-106360-1

Login Number: 106360

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: McBeth, Jessica

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	Refer to Job Narrative for details.
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	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Ryley Gardner
Environmental Works, Inc.
1455 East Chestnut Expressway
Springfield MO 65802

Generated 12/6/2022 9:49 AM

JOB DESCRIPTION

Springfield, MO – OFIWP

JOB NUMBER

410-106360-1

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

See page two for job notes and contact information.

myEOL

Eurofins Lancaster Laboratories Environment Testing, LLC

Job Notes

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

Authorization

Generated
12/6/2022 9:49 AM

Authorized for release by
Nicole Brown, Project Manager
Nicole.Brown@et.eurofinsus.com
717 471-3265

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

Table of Contents

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
cn	Refer to Case Narrative for further detail
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
cn	Refer to Case Narrative for further detail
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
B	Compound was found in the blank and sample.
cn	Refer to Case Narrative for further detail
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Job Narrative
410-106360-1

Receipt
The samples were received on 11/18/2022 9:58 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.9°C

Receipt Exceptions
1 40ml HCl vial for the following sample was received broken. FBW001-MSD_112022 (410-106360-3[MSD]).

2 40ml HCl vials for the following sample was received broken. FBW001_FB_112022 (410-106360-4).

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) associated with batch 410-322343 recovered above the upper control limit for Acetone. 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.

Job Narrative
410-106360-1

Receipt
The samples were received on 11/18/2022 9:58 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.9°C

Receipt Exceptions
1 40ml HCl vial for the following sample was received broken. FBW001-MSD_112022 (410-106360-3[MSD]).

2 40ml HCl vials for the following sample was received broken. FBW001_FB_112022 (410-106360-4).

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) associated with batch 410-322343 recovered above the upper control limit for Acetone. 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.

GC/MS Semi VOA
Method 8270D_SIM: The continuing calibration verification (CCV) associated with batch 410-321961 recovered above the upper control limit for Butylbenzylphthalate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8270D_SIM: The method blank for preparation batch 410-320750 and analytical batch 410-321961 contained Bis(2-ethylhexyl) phthalate and Di-n-butyl phthalate above the method detection limit (MDL). Associated samples were not re-extracted for this non-conformance because results were less than the reporting limit (RL).

Method 8270D_SIM: Bis(2-ethylhexyl) phthalate and Di-n-butyl phthalate was detected above the reporting limit (RL) in the method blank associated with preparation batch 410-320750 and analytical batch 410-321961 as well as in the following samples: FBS010_112022 (410-106360-1), DUP-01_112022 (410-106360-2), FBW001_112022 (410-106360-3) and FBW001_FB_112022 (410-106360-4). All affected samples were re-extracted outside of holding time. Both sets of data have been reported.

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

Detection Summary

Client: Environmental Works, Inc. Job ID: 410-106360-1
Project/Site: Springfield, MO – OFIWP

Client Sample ID: FBS010_112022 Lab Sample ID: 410-106360-1

Sample Analysis Not Complete.

Client Sample ID: DUP-01_112022 Lab Sample ID: 410-106360-2

Sample Analysis Not Complete.

Client Sample ID: FBW001_112022 Lab Sample ID: 410-106360-3

Sample Analysis Not Complete.

Client Sample ID: FBW001_FB_112022 Lab Sample ID: 410-106360-4

Sample Analysis Not Complete.

Client Sample ID: Trip Blank Lab Sample ID: 410-106360-5

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Environmental Works, Inc.
Project/Site: Springfield, MO – OFIWP

Job ID: 410-106360-1

Client Sample ID: FBS010_112022 — Lab Sample ID: 410-106360-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Di-n-butyl phthalate	0.98	J *+ B *1 cn	1.1	0.053	ug/L	1		8270D SIM	Total/NA
Fluoranthene	0.030	J	0.053	0.011	ug/L	1		8270D SIM	Total/NA
Pyrene	0.022	J	0.053	0.011	ug/L	1		8270D SIM	Total/NA
Bis(2-ethylhexyl) phthalate - RA	0.30	J B cn	1.1	0.053	ug/L	1		8270D SIM	Total/NA

Client Sample ID: DUP-01_112022 — Lab Sample ID: 410-106360-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.90	J cn	20	0.70	ug/L	1		8260C	Total/NA
Bis(2-chloroethyl)ether	0.025	J	0.052	0.021	ug/L	1		8270D SIM	Total/NA
Di-n-butyl phthalate	1.4	*+ B *1 cn	1.0	0.052	ug/L	1		8270D SIM	Total/NA
Fluoranthene	0.018	J	0.052	0.010	ug/L	1		8270D SIM	Total/NA
Pyrene	0.011	J	0.052	0.010	ug/L	1		8270D SIM	Total/NA
Bis(2-ethylhexyl) phthalate - RA	0.66	J B cn	1.0	0.052	ug/L	1		8270D SIM	Total/NA

Client Sample ID: FBW001_112022 — Lab Sample ID: 410-106360-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.013	J	0.051	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[a]anthracene	0.019	J	0.051	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[a]pyrene	0.011	J	0.051	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[b]fluoranthene	0.015	J	0.051	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[g,h,i]perylene	0.014	J	0.051	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[k]fluoranthene	0.012	J	0.051	0.010	ug/L	1		8270D SIM	Total/NA
Chrysene	0.017	J	0.051	0.010	ug/L	1		8270D SIM	Total/NA
Dibenzofuran	0.010	J	0.051	0.010	ug/L	1		8270D SIM	Total/NA
Di-n-butyl phthalate	0.60	J *+ F1 B *1 cn	1.0	0.051	ug/L	1		8270D SIM	Total/NA
Fluoranthene	0.018	J	0.051	0.010	ug/L	1		8270D SIM	Total/NA
Fluorene	0.012	J	0.051	0.010	ug/L	1		8270D SIM	Total/NA
Pyrene	0.021	J	0.051	0.010	ug/L	1		8270D SIM	Total/NA
Bis(2-ethylhexyl) phthalate - RA	0.28	J B cn	1.0	0.051	ug/L	1		8270D SIM	Total/NA

Client Sample ID: FBW001_FB_112022 — Lab Sample ID: 410-106360-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Di-n-butyl phthalate	0.57	J *+ B *1 cn	1.1	0.053	ug/L	1		8270D SIM	Total/NA
Bis(2-ethylhexyl) phthalate - RA	1.1	B cn	1.1	0.053	ug/L	1		8270D SIM	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 410-106360-5

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: FBS010_112022 Lab Sample ID: 410-106360-1

Date Collected: 11/17/22 10:33 **Matrix: Water**
Date Received: 11/18/22 09:58

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			12/01/22 00:10	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			12/01/22 00:10	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			12/01/22 00:10	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			12/01/22 00:10	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			12/01/22 00:10	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/L			12/01/22 00:10	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			12/01/22 00:10	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.30	ug/L			12/01/22 00:10	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			12/01/22 00:10	1
1,2-Dichlorobenzene	ND		5.0	0.20	ug/L			12/01/22 00:10	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			12/01/22 00:10	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			12/01/22 00:10	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			12/01/22 00:10	1
1,3-Dichlorobenzene	ND		5.0	0.68	ug/L			12/01/22 00:10	1
1,4-Dichlorobenzene	ND		5.0	0.30	ug/L			12/01/22 00:10	1
2-Butanone	ND		10	0.50	ug/L			12/01/22 00:10	1
2-Hexanone	ND		10	0.85	ug/L			12/01/22 00:10	1
4-Methyl-2-pentanone	ND		10	0.50	ug/L			12/01/22 00:10	1
Acetone	ND	cn	20	0.70	ug/L			12/01/22 00:10	1
Benzene	ND		1.0	0.30	ug/L			12/01/22 00:10	1
Bromodichloromethane	ND		1.0	0.20	ug/L			12/01/22 00:10	1
Bromoform	ND		4.0	1.0	ug/L			12/01/22 00:10	1
Bromomethane	ND		1.0	0.30	ug/L			12/01/22 00:10	1
Carbon disulfide	ND		5.0	0.30	ug/L			12/01/22 00:10	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			12/01/22 00:10	1
Chlorobenzene	ND		1.0	0.30	ug/L			12/01/22 00:10	1
Chloroethane	ND		1.0	0.20	ug/L			12/01/22 00:10	1
Chloroform	ND		1.0	0.30	ug/L			12/01/22 00:10	1
Chloromethane	ND		2.0	0.55	ug/L			12/01/22 00:10	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			12/01/22 00:10	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			12/01/22 00:10	1
Cyclohexane	ND		5.0	1.0	ug/L			12/01/22 00:10	1
Dibromochloromethane	ND		1.0	0.20	ug/L			12/01/22 00:10	1
Dichlorodifluoromethane	ND		1.0	0.20	ug/L			12/01/22 00:10	1
Ethylbenzene	ND		1.0	0.40	ug/L			12/01/22 00:10	1
Freon 113	ND		10	0.30	ug/L			12/01/22 00:10	1
Isopropylbenzene	ND		5.0	0.20	ug/L			12/01/22 00:10	1
Methyl acetate	ND		5.0	0.30	ug/L			12/01/22 00:10	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			12/01/22 00:10	1
Methylcyclohexane	ND		5.0	0.50	ug/L			12/01/22 00:10	1
Methylene Chloride	ND		1.0	0.30	ug/L			12/01/22 00:10	1
Styrene	ND		5.0	0.30	ug/L			12/01/22 00:10	1
Tetrachloroethene	ND		1.0	0.30	ug/L			12/01/22 00:10	1
Toluene	ND		1.0	0.20	ug/L			12/01/22 00:10	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			12/01/22 00:10	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			12/01/22 00:10	1
Trichloroethene	ND		1.0	0.30	ug/L			12/01/22 00:10	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			12/01/22 00:10	1
Vinyl chloride	ND		1.0	0.20	ug/L			12/01/22 00:10	1

Client Sample ID: FBS010_112022 — Lab Sample ID: 410-106360-1

Date Collected: 11/17/22 10:33 — **Matrix: Water**
Date Received: 11/18/22 09:58

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		1.0	0.40	ug/L			12/01/22 00:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*12/01/22 00:10*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*12/01/22 00:10*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*12/01/22 00:10*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*12/01/22 00:10*	*1*

Method: SW846 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.32	0.11	ug/L		11/23/22 17:30	11/30/22 15:32	1
1-Methylnaphthalene	ND		0.053	0.021	ug/L		11/23/22 17:30	11/30/22 15:32	1
2-Methylnaphthalene	ND		0.053	0.021	ug/L		11/23/22 17:30	11/30/22 15:32	1
Acenaphthene	ND		0.053	0.011	ug/L		11/23/22 17:30	11/30/22 15:32	1
Acenaphthylene	ND		0.053	0.011	ug/L		11/23/22 17:30	11/30/22 15:32	1
Anthracene	ND		0.053	0.011	ug/L		11/23/22 17:30	11/30/22 15:32	1
Benzo[a]anthracene	ND		0.053	0.011	ug/L		11/23/22 17:30	11/30/22 15:32	1
Benzo[a]pyrene	ND		0.053	0.011	ug/L		11/23/22 17:30	11/30/22 15:32	1
Benzo[b]fluoranthene	ND		0.053	0.011	ug/L		11/23/22 17:30	11/30/22 15:32	1
Benzo[g,h,i]perylene	ND		0.053	0.011	ug/L		11/23/22 17:30	11/30/22 15:32	1
Benzo[k]fluoranthene	ND		0.053	0.011	ug/L		11/23/22 17:30	11/30/22 15:32	1
Bis(2-chloroethyl)ether	ND		0.053	0.021	ug/L		11/23/22 17:30	11/30/22 15:32	1
Butylbenzylphthalate	ND	cn	1.1	0.053	ug/L		11/23/22 17:30	11/30/22 15:32	1
Chrysene	ND		0.053	0.011	ug/L		11/23/22 17:30	11/30/22 15:32	1
Dibenz(a,h)anthracene	ND		0.053	0.021	ug/L		11/23/22 17:30	11/30/22 15:32	1
Dibenzofuran	ND		0.053	0.011	ug/L		11/23/22 17:30	11/30/22 15:32	1
Diethylphthalate	ND		1.1	0.053	ug/L		11/23/22 17:30	11/30/22 15:32	1
Dimethylphthalate	ND		1.1	0.053	ug/L		11/23/22 17:30	11/30/22 15:32	1
Di-n-butyl phthalate	**0.98**	**J *+ B *1 cn**	1.1	0.053	ug/L		11/23/22 17:30	11/30/22 15:32	1
Di-n-octyl phthalate	ND		1.1	0.053	ug/L		11/23/22 17:30	11/30/22 15:32	1
Fluoranthene	**0.030**	**J**	0.053	0.011	ug/L		11/23/22 17:30	11/30/22 15:32	1
Fluorene	ND		0.053	0.011	ug/L		11/23/22 17:30	11/30/22 15:32	1
Hexachlorobenzene	ND		0.053	0.021	ug/L		11/23/22 17:30	11/30/22 15:32	1
Indeno[1,2,3-cd]pyrene	ND		0.053	0.021	ug/L		11/23/22 17:30	11/30/22 15:32	1
Naphthalene	ND		0.074	0.032	ug/L		11/23/22 17:30	11/30/22 15:32	1
N-Nitrosodimethylamine	ND		0.053	0.021	ug/L		11/23/22 17:30	11/30/22 15:32	1
Phenanthrene	ND		0.074	0.032	ug/L		11/23/22 17:30	11/30/22 15:32	1
Pyrene	**0.022**	**J**	0.053	0.011	ug/L		11/23/22 17:30	11/30/22 15:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Methylnaphthalene-d10 (Surr)	*78*		*36 - 111*	*11/23/22 17:30*	*11/30/22 15:32*	*1*
Benzo(a)pyrene-d12 (Surr)	*73*		*10 - 110*	*11/23/22 17:30*	*11/30/22 15:32*	*1*
Fluoranthene-d10 (Surr)	*71*		*47 - 128*	*11/23/22 17:30*	*11/30/22 15:32*	*1*

Method: SW846 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	**0.30**	**J B cn**	1.1	0.053	ug/L		11/23/22 17:30	12/01/22 07:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Methylnaphthalene-d10 (Surr)	*76*		*36 - 111*	*11/23/22 17:30*	*12/01/22 07:26*	*1*

Client Sample ID: FBS010_112022 — Lab Sample ID: 410-106360-1

Date Collected: 11/17/22 10:33 — **Matrix: Water**
Date Received: 11/18/22 09:58

Method: SW846 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) - RA (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*76*		*10 - 110*	*11/23/22 17:30*	*12/01/22 07:26*	*1*
Fluoranthene-d10 (Surr)	*80*		*47 - 128*	*11/23/22 17:30*	*12/01/22 07:26*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dimethylphenol	ND		10	3	ug/L		11/23/22 17:30	11/25/22 00:33	1
2,4-Dinitrophenol	ND		30	10	ug/L		11/23/22 17:30	11/25/22 00:33	1
2-Chlorophenol	ND		2	0.5	ug/L		11/23/22 17:30	11/25/22 00:33	1
Carbazole	ND		2	0.5	ug/L		11/23/22 17:30	11/25/22 00:33	1
Phenol	ND		2	0.5	ug/L		11/23/22 17:30	11/25/22 00:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*84*		*10 - 150*	*11/23/22 17:30*	*11/25/22 00:33*	*1*
2-Fluorobiphenyl (Surr)	*77*		*44 - 120*	*11/23/22 17:30*	*11/25/22 00:33*	*1*
2-Fluorophenol (Surr)	*43*		*10 - 120*	*11/23/22 17:30*	*11/25/22 00:33*	*1*
Nitrobenzene-d5 (Surr)	*77*		*25 - 125*	*11/23/22 17:30*	*11/25/22 00:33*	*1*
Phenol-d5 (Surr)	*29*		*10 - 120*	*11/23/22 17:30*	*11/25/22 00:33*	*1*
p-Terphenyl-d14 (Surr)	*92*		*37 - 120*	*11/23/22 17:30*	*11/25/22 00:33*	*1*

Client Sample ID: DUP-01_112022 — Lab Sample ID: 410-106360-2

Date Collected: 11/17/22 12:00 — **Matrix: Water**
Date Received: 11/18/22 09:58

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			12/01/22 00:30	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			12/01/22 00:30	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			12/01/22 00:30	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			12/01/22 00:30	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			12/01/22 00:30	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/L			12/01/22 00:30	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			12/01/22 00:30	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.30	ug/L			12/01/22 00:30	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			12/01/22 00:30	1
1,2-Dichlorobenzene	ND		5.0	0.20	ug/L			12/01/22 00:30	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			12/01/22 00:30	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			12/01/22 00:30	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			12/01/22 00:30	1
1,3-Dichlorobenzene	ND		5.0	0.68	ug/L			12/01/22 00:30	1
1,4-Dichlorobenzene	ND		5.0	0.30	ug/L			12/01/22 00:30	1
2-Butanone	ND		10	0.50	ug/L			12/01/22 00:30	1
2-Hexanone	ND		10	0.85	ug/L			12/01/22 00:30	1
4-Methyl-2-pentanone	ND		10	0.50	ug/L			12/01/22 00:30	1
Acetone	**0.90**	**J cn**	20	0.70	ug/L			12/01/22 00:30	1
Benzene	ND		1.0	0.30	ug/L			12/01/22 00:30	1
Bromodichloromethane	ND		1.0	0.20	ug/L			12/01/22 00:30	1
Bromoform	ND		4.0	1.0	ug/L			12/01/22 00:30	1
Bromomethane	ND		1.0	0.30	ug/L			12/01/22 00:30	1
Carbon disulfide	ND		5.0	0.30	ug/L			12/01/22 00:30	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			12/01/22 00:30	1

Client Sample ID: DUP-01_112022 Lab Sample ID: 410-106360-2

Date Collected: 11/17/22 12:00 **Matrix: Water**
Date Received: 11/18/22 09:58

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		1.0	0.30	ug/L			12/01/22 00:30	1
Chloroethane	ND		1.0	0.20	ug/L			12/01/22 00:30	1
Chloroform	ND		1.0	0.30	ug/L			12/01/22 00:30	1
Chloromethane	ND		2.0	0.55	ug/L			12/01/22 00:30	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			12/01/22 00:30	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			12/01/22 00:30	1
Cyclohexane	ND		5.0	1.0	ug/L			12/01/22 00:30	1
Dibromochloromethane	ND		1.0	0.20	ug/L			12/01/22 00:30	1
Dichlorodifluoromethane	ND		1.0	0.20	ug/L			12/01/22 00:30	1
Ethylbenzene	ND		1.0	0.40	ug/L			12/01/22 00:30	1
Freon 113	ND		10	0.30	ug/L			12/01/22 00:30	1
Isopropylbenzene	ND		5.0	0.20	ug/L			12/01/22 00:30	1
Methyl acetate	ND		5.0	0.30	ug/L			12/01/22 00:30	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			12/01/22 00:30	1
Methylcyclohexane	ND		5.0	0.50	ug/L			12/01/22 00:30	1
Methylene Chloride	ND		1.0	0.30	ug/L			12/01/22 00:30	1
Styrene	ND		5.0	0.30	ug/L			12/01/22 00:30	1
Tetrachloroethene	ND		1.0	0.30	ug/L			12/01/22 00:30	1
Toluene	ND		1.0	0.20	ug/L			12/01/22 00:30	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			12/01/22 00:30	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			12/01/22 00:30	1
Trichloroethene	ND		1.0	0.30	ug/L			12/01/22 00:30	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			12/01/22 00:30	1
Vinyl chloride	ND		1.0	0.20	ug/L			12/01/22 00:30	1
Xylenes, Total	ND		1.0	0.40	ug/L			12/01/22 00:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 120*		*12/01/22 00:30*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*12/01/22 00:30*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*12/01/22 00:30*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*12/01/22 00:30*	*1*

Method: SW846 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.31	0.10	ug/L		11/23/22 17:30	11/30/22 15:54	1
1-Methylnaphthalene	ND		0.052	0.021	ug/L		11/23/22 17:30	11/30/22 15:54	1
2-Methylnaphthalene	ND		0.052	0.021	ug/L		11/23/22 17:30	11/30/22 15:54	1
Acenaphthene	ND		0.052	0.010	ug/L		11/23/22 17:30	11/30/22 15:54	1
Acenaphthylene	ND		0.052	0.010	ug/L		11/23/22 17:30	11/30/22 15:54	1
Anthracene	ND		0.052	0.010	ug/L		11/23/22 17:30	11/30/22 15:54	1
Benzo[a]anthracene	ND		0.052	0.010	ug/L		11/23/22 17:30	11/30/22 15:54	1
Benzo[a]pyrene	ND		0.052	0.010	ug/L		11/23/22 17:30	11/30/22 15:54	1
Benzo[b]fluoranthene	ND		0.052	0.010	ug/L		11/23/22 17:30	11/30/22 15:54	1
Benzo[g,h,i]perylene	ND		0.052	0.010	ug/L		11/23/22 17:30	11/30/22 15:54	1
Benzo[k]fluoranthene	ND		0.052	0.010	ug/L		11/23/22 17:30	11/30/22 15:54	1
Bis(2-chloroethyl)ether	**0.025**	**J**	0.052	0.021	ug/L		11/23/22 17:30	11/30/22 15:54	1
Butylbenzylphthalate	ND	cn	1.0	0.052	ug/L		11/23/22 17:30	11/30/22 15:54	1
Chrysene	ND		0.052	0.010	ug/L		11/23/22 17:30	11/30/22 15:54	1
Dibenz(a,h)anthracene	ND		0.052	0.021	ug/L		11/23/22 17:30	11/30/22 15:54	1
Dibenzofuran	ND		0.052	0.010	ug/L		11/23/22 17:30	11/30/22 15:54	1

Client Sample ID: DUP-01_112022 — Lab Sample ID: 410-106360-2

Date Collected: 11/17/22 12:00 **Matrix: Water**
Date Received: 11/18/22 09:58

Method: SW846 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethylphthalate	ND		1.0	0.052	ug/L		11/23/22 17:30	11/30/22 15:54	1
Dimethylphthalate	ND		1.0	0.052	ug/L		11/23/22 17:30	11/30/22 15:54	1
Di-n-butyl phthalate	**1.4**	***+ B *1 cn**	1.0	0.052	ug/L		11/23/22 17:30	11/30/22 15:54	1
Di-n-octyl phthalate	ND		1.0	0.052	ug/L		11/23/22 17:30	11/30/22 15:54	1
Fluoranthene	**0.018**	**J**	0.052	0.010	ug/L		11/23/22 17:30	11/30/22 15:54	1
Fluorene	ND		0.052	0.010	ug/L		11/23/22 17:30	11/30/22 15:54	1
Hexachlorobenzene	ND		0.052	0.021	ug/L		11/23/22 17:30	11/30/22 15:54	1
Indeno[1,2,3-cd]pyrene	ND		0.052	0.021	ug/L		11/23/22 17:30	11/30/22 15:54	1
Naphthalene	ND		0.073	0.031	ug/L		11/23/22 17:30	11/30/22 15:54	1
N-Nitrosodimethylamine	ND		0.052	0.021	ug/L		11/23/22 17:30	11/30/22 15:54	1
Phenanthrene	ND		0.073	0.031	ug/L		11/23/22 17:30	11/30/22 15:54	1
Pyrene	**0.011**	**J**	0.052	0.010	ug/L		11/23/22 17:30	11/30/22 15:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Methylnaphthalene-d10 (Surr)	*82*		*36 - 111*	*11/23/22 17:30*	*11/30/22 15:54*	*1*
Benzo(a)pyrene-d12 (Surr)	*73*		*10 - 110*	*11/23/22 17:30*	*11/30/22 15:54*	*1*
Fluoranthene-d10 (Surr)	*70*		*47 - 128*	*11/23/22 17:30*	*11/30/22 15:54*	*1*

Method: SW846 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	**0.66**	**J B cn**	1.0	0.052	ug/L		11/23/22 17:30	12/01/22 07:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Methylnaphthalene-d10 (Surr)	*76*		*36 - 111*	*11/23/22 17:30*	*12/01/22 07:47*	*1*
Benzo(a)pyrene-d12 (Surr)	*75*		*10 - 110*	*11/23/22 17:30*	*12/01/22 07:47*	*1*
Fluoranthene-d10 (Surr)	*82*		*47 - 128*	*11/23/22 17:30*	*12/01/22 07:47*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dimethylphenol	ND		10	3	ug/L		11/23/22 17:30	11/25/22 00:53	1
2,4-Dinitrophenol	ND		30	10	ug/L		11/23/22 17:30	11/25/22 00:53	1
2-Chlorophenol	ND		2	0.5	ug/L		11/23/22 17:30	11/25/22 00:53	1
Carbazole	ND		2	0.5	ug/L		11/23/22 17:30	11/25/22 00:53	1
Phenol	ND		2	0.5	ug/L		11/23/22 17:30	11/25/22 00:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*90*		*10 - 150*	*11/23/22 17:30*	*11/25/22 00:53*	*1*
2-Fluorobiphenyl (Surr)	*81*		*44 - 120*	*11/23/22 17:30*	*11/25/22 00:53*	*1*
2-Fluorophenol (Surr)	*47*		*10 - 120*	*11/23/22 17:30*	*11/25/22 00:53*	*1*
Nitrobenzene-d5 (Surr)	*81*		*25 - 125*	*11/23/22 17:30*	*11/25/22 00:53*	*1*
Phenol-d5 (Surr)	*31*		*10 - 120*	*11/23/22 17:30*	*11/25/22 00:53*	*1*
p-Terphenyl-d14 (Surr)	*97*		*37 - 120*	*11/23/22 17:30*	*11/25/22 00:53*	*1*

Client Sample ID: FBW001_112022 — Lab Sample ID: 410-106360-3

Date Collected: 11/17/22 10:20 **Matrix: Water**
Date Received: 11/18/22 09:58

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			11/30/22 22:51	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			11/30/22 22:51	1

Client Sample ID: FBW001_112022 — Lab Sample ID: 410-106360-3

Date Collected: 11/17/22 10:20 — **Matrix: Water**
Date Received: 11/18/22 09:58

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			11/30/22 22:51	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			11/30/22 22:51	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			11/30/22 22:51	1
1,2,4-Trichlorobenzene	ND	F1	5.0	0.30	ug/L			11/30/22 22:51	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			11/30/22 22:51	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.30	ug/L			11/30/22 22:51	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			11/30/22 22:51	1
1,2-Dichlorobenzene	ND		5.0	0.20	ug/L			11/30/22 22:51	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			11/30/22 22:51	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			11/30/22 22:51	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			11/30/22 22:51	1
1,3-Dichlorobenzene	ND		5.0	0.68	ug/L			11/30/22 22:51	1
1,4-Dichlorobenzene	ND		5.0	0.30	ug/L			11/30/22 22:51	1
2-Butanone	ND		10	0.50	ug/L			11/30/22 22:51	1
2-Hexanone	ND		10	0.85	ug/L			11/30/22 22:51	1
4-Methyl-2-pentanone	ND		10	0.50	ug/L			11/30/22 22:51	1
Acetone	ND	cn	20	0.70	ug/L			11/30/22 22:51	1
Benzene	ND		1.0	0.30	ug/L			11/30/22 22:51	1
Bromodichloromethane	ND		1.0	0.20	ug/L			11/30/22 22:51	1
Bromoform	ND		4.0	1.0	ug/L			11/30/22 22:51	1
Bromomethane	ND		1.0	0.30	ug/L			11/30/22 22:51	1
Carbon disulfide	ND		5.0	0.30	ug/L			11/30/22 22:51	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			11/30/22 22:51	1
Chlorobenzene	ND		1.0	0.30	ug/L			11/30/22 22:51	1
Chloroethane	ND		1.0	0.20	ug/L			11/30/22 22:51	1
Chloroform	ND		1.0	0.30	ug/L			11/30/22 22:51	1
Chloromethane	ND		2.0	0.55	ug/L			11/30/22 22:51	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			11/30/22 22:51	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			11/30/22 22:51	1
Cyclohexane	ND		5.0	1.0	ug/L			11/30/22 22:51	1
Dibromochloromethane	ND		1.0	0.20	ug/L			11/30/22 22:51	1
Dichlorodifluoromethane	ND		1.0	0.20	ug/L			11/30/22 22:51	1
Ethylbenzene	ND		1.0	0.40	ug/L			11/30/22 22:51	1
Freon 113	ND		10	0.30	ug/L			11/30/22 22:51	1
Isopropylbenzene	ND	F1	5.0	0.20	ug/L			11/30/22 22:51	1
Methyl acetate	ND	F2	5.0	0.30	ug/L			11/30/22 22:51	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			11/30/22 22:51	1
Methylcyclohexane	ND	F1	5.0	0.50	ug/L			11/30/22 22:51	1
Methylene Chloride	ND		1.0	0.30	ug/L			11/30/22 22:51	1
Styrene	ND		5.0	0.30	ug/L			11/30/22 22:51	1
Tetrachloroethene	ND	F1	1.0	0.30	ug/L			11/30/22 22:51	1
Toluene	ND		1.0	0.20	ug/L			11/30/22 22:51	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			11/30/22 22:51	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			11/30/22 22:51	1
Trichloroethene	ND		1.0	0.30	ug/L			11/30/22 22:51	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			11/30/22 22:51	1
Vinyl chloride	ND		1.0	0.20	ug/L			11/30/22 22:51	1
Xylenes, Total	ND		1.0	0.40	ug/L			11/30/22 22:51	1

Client Sample ID: FBW001_112022 Lab Sample ID: 410-106360-3

Date Collected: 11/17/22 10:20 **Matrix: Water**
Date Received: 11/18/22 09:58

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*95*		*80 - 120*		*11/30/22 22:51*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*11/30/22 22:51*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*11/30/22 22:51*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*11/30/22 22:51*	*1*

Method: SW846 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.31	0.10	ug/L		11/23/22 17:30	11/30/22 09:38	1
1-Methylnaphthalene	ND		0.051	0.021	ug/L		11/23/22 17:30	11/30/22 09:38	1
2-Methylnaphthalene	ND		0.051	0.021	ug/L		11/23/22 17:30	11/30/22 09:38	1
Acenaphthene	ND		0.051	0.010	ug/L		11/23/22 17:30	11/30/22 09:38	1
Acenaphthylene	ND		0.051	0.010	ug/L		11/23/22 17:30	11/30/22 09:38	1
Anthracene	**0.013**	**J**	0.051	0.010	ug/L		11/23/22 17:30	11/30/22 09:38	1
Benzo[a]anthracene	**0.019**	**J**	0.051	0.010	ug/L		11/23/22 17:30	11/30/22 09:38	1
Benzo[a]pyrene	**0.011**	**J**	0.051	0.010	ug/L		11/23/22 17:30	11/30/22 09:38	1
Benzo[b]fluoranthene	**0.015**	**J**	0.051	0.010	ug/L		11/23/22 17:30	11/30/22 09:38	1
Benzo[g,h,i]perylene	**0.014**	**J**	0.051	0.010	ug/L		11/23/22 17:30	11/30/22 09:38	1
Benzo[k]fluoranthene	**0.012**	**J**	0.051	0.010	ug/L		11/23/22 17:30	11/30/22 09:38	1
Bis(2-chloroethyl)ether	ND		0.051	0.021	ug/L		11/23/22 17:30	11/30/22 09:38	1
Butylbenzylphthalate	ND	cn	1.0	0.051	ug/L		11/23/22 17:30	11/30/22 09:38	1
Chrysene	**0.017**	**J**	0.051	0.010	ug/L		11/23/22 17:30	11/30/22 09:38	1
Dibenz(a,h)anthracene	ND		0.051	0.021	ug/L		11/23/22 17:30	11/30/22 09:38	1
Dibenzofuran	**0.010**	**J**	0.051	0.010	ug/L		11/23/22 17:30	11/30/22 09:38	1
Diethylphthalate	ND		1.0	0.051	ug/L		11/23/22 17:30	11/30/22 09:38	1
Dimethylphthalate	ND		1.0	0.051	ug/L		11/23/22 17:30	11/30/22 09:38	1
Di-n-butyl phthalate	**0.60**	**J *+ F1 B *1 cn**	1.0	0.051	ug/L		11/23/22 17:30	11/30/22 09:38	1
Di-n-octyl phthalate	ND		1.0	0.051	ug/L		11/23/22 17:30	11/30/22 09:38	1
Fluoranthene	**0.018**	**J**	0.051	0.010	ug/L		11/23/22 17:30	11/30/22 09:38	1
Fluorene	**0.012**	**J**	0.051	0.010	ug/L		11/23/22 17:30	11/30/22 09:38	1
Hexachlorobenzene	ND		0.051	0.021	ug/L		11/23/22 17:30	11/30/22 09:38	1
Indeno[1,2,3-cd]pyrene	ND		0.051	0.021	ug/L		11/23/22 17:30	11/30/22 09:38	1
Naphthalene	ND		0.072	0.031	ug/L		11/23/22 17:30	11/30/22 09:38	1
N-Nitrosodimethylamine	ND		0.051	0.021	ug/L		11/23/22 17:30	11/30/22 09:38	1
Phenanthrene	ND		0.072	0.031	ug/L		11/23/22 17:30	11/30/22 09:38	1
Pyrene	**0.021**	**J**	0.051	0.010	ug/L		11/23/22 17:30	11/30/22 09:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene-d10 (Surr)	*71*		*36 - 111*	*11/23/22 17:30*	*11/30/22 09:38*	*1*
Benzo(a)pyrene-d12 (Surr)	*54*		*10 - 110*	*11/23/22 17:30*	*11/30/22 09:38*	*1*
Fluoranthene-d10 (Surr)	*63*		*47 - 128*	*11/23/22 17:30*	*11/30/22 09:38*	*1*

Method: SW846 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	**0.28**	**J B cn**	1.0	0.051	ug/L		11/23/22 17:30	12/01/22 06:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene-d10 (Surr)	*65*		*36 - 111*	*11/23/22 17:30*	*12/01/22 06:22*	*1*
Benzo(a)pyrene-d12 (Surr)	*55*		*10 - 110*	*11/23/22 17:30*	*12/01/22 06:22*	*1*
Fluoranthene-d10 (Surr)	*70*		*47 - 128*	*11/23/22 17:30*	*12/01/22 06:22*	*1*

Client Sample ID: FBW001_112022 — Lab Sample ID: 410-106360-3

Date Collected: 11/17/22 10:20 — **Matrix: Water**
Date Received: 11/18/22 09:58

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dimethylphenol	ND		10	3	ug/L		11/23/22 17:30	11/24/22 22:13	1
2,4-Dinitrophenol	ND		30	10	ug/L		11/23/22 17:30	11/24/22 22:13	1
2-Chlorophenol	ND		2	0.5	ug/L		11/23/22 17:30	11/24/22 22:13	1
Carbazole	ND		2	0.5	ug/L		11/23/22 17:30	11/24/22 22:13	1
Phenol	ND		2	0.5	ug/L		11/23/22 17:30	11/24/22 22:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*83*		*10 - 150*	*11/23/22 17:30*	*11/24/22 22:13*	*1*
2-Fluorobiphenyl (Surr)	*74*		*44 - 120*	*11/23/22 17:30*	*11/24/22 22:13*	*1*
2-Fluorophenol (Surr)	*34*		*10 - 120*	*11/23/22 17:30*	*11/24/22 22:13*	*1*
Nitrobenzene-d5 (Surr)	*75*		*25 - 125*	*11/23/22 17:30*	*11/24/22 22:13*	*1*
Phenol-d5 (Surr)	*22*		*10 - 120*	*11/23/22 17:30*	*11/24/22 22:13*	*1*
p-Terphenyl-d14 (Surr)	*71*		*37 - 120*	*11/23/22 17:30*	*11/24/22 22:13*	*1*

Client Sample ID: FBW001_FB_112022 — Lab Sample ID: 410-106360-4

Date Collected: 11/17/22 10:14 — **Matrix: Water**
Date Received: 11/18/22 09:58

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			11/30/22 21:33	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			11/30/22 21:33	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			11/30/22 21:33	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			11/30/22 21:33	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			11/30/22 21:33	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/L			11/30/22 21:33	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			11/30/22 21:33	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.30	ug/L			11/30/22 21:33	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			11/30/22 21:33	1
1,2-Dichlorobenzene	ND		5.0	0.20	ug/L			11/30/22 21:33	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			11/30/22 21:33	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			11/30/22 21:33	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			11/30/22 21:33	1
1,3-Dichlorobenzene	ND		5.0	0.68	ug/L			11/30/22 21:33	1
1,4-Dichlorobenzene	ND		5.0	0.30	ug/L			11/30/22 21:33	1
2-Butanone	ND		10	0.50	ug/L			11/30/22 21:33	1
2-Hexanone	ND		10	0.85	ug/L			11/30/22 21:33	1
4-Methyl-2-pentanone	ND		10	0.50	ug/L			11/30/22 21:33	1
Acetone	ND	cn	20	0.70	ug/L			11/30/22 21:33	1
Benzene	ND		1.0	0.30	ug/L			11/30/22 21:33	1
Bromodichloromethane	ND		1.0	0.20	ug/L			11/30/22 21:33	1
Bromoform	ND		4.0	1.0	ug/L			11/30/22 21:33	1
Bromomethane	ND		1.0	0.30	ug/L			11/30/22 21:33	1
Carbon disulfide	ND		5.0	0.30	ug/L			11/30/22 21:33	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			11/30/22 21:33	1
Chlorobenzene	ND		1.0	0.30	ug/L			11/30/22 21:33	1
Chloroethane	ND		1.0	0.20	ug/L			11/30/22 21:33	1
Chloroform	ND		1.0	0.30	ug/L			11/30/22 21:33	1
Chloromethane	ND		2.0	0.55	ug/L			11/30/22 21:33	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			11/30/22 21:33	1

Client Sample ID: FBW001_FB_112022 Lab Sample ID: 410-106360-4

Date Collected: 11/17/22 10:14 **Matrix: Water**
Date Received: 11/18/22 09:58

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			11/30/22 21:33	1
Cyclohexane	ND		5.0	1.0	ug/L			11/30/22 21:33	1
Dibromochloromethane	ND		1.0	0.20	ug/L			11/30/22 21:33	1
Dichlorodifluoromethane	ND		1.0	0.20	ug/L			11/30/22 21:33	1
Ethylbenzene	ND		1.0	0.40	ug/L			11/30/22 21:33	1
Freon 113	ND		10	0.30	ug/L			11/30/22 21:33	1
Isopropylbenzene	ND		5.0	0.20	ug/L			11/30/22 21:33	1
Methyl acetate	ND		5.0	0.30	ug/L			11/30/22 21:33	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			11/30/22 21:33	1
Methylcyclohexane	ND		5.0	0.50	ug/L			11/30/22 21:33	1
Methylene Chloride	ND		1.0	0.30	ug/L			11/30/22 21:33	1
Styrene	ND		5.0	0.30	ug/L			11/30/22 21:33	1
Tetrachloroethene	ND		1.0	0.30	ug/L			11/30/22 21:33	1
Toluene	ND		1.0	0.20	ug/L			11/30/22 21:33	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			11/30/22 21:33	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			11/30/22 21:33	1
Trichloroethene	ND		1.0	0.30	ug/L			11/30/22 21:33	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			11/30/22 21:33	1
Vinyl chloride	ND		1.0	0.20	ug/L			11/30/22 21:33	1
Xylenes, Total	ND		1.0	0.40	ug/L			11/30/22 21:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*11/30/22 21:33*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*11/30/22 21:33*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*11/30/22 21:33*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*11/30/22 21:33*	*1*

Method: SW846 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.32	0.11	ug/L		11/23/22 17:30	11/30/22 16:15	1
1-Methylnaphthalene	ND		0.053	0.021	ug/L		11/23/22 17:30	11/30/22 16:15	1
2-Methylnaphthalene	ND		0.053	0.021	ug/L		11/23/22 17:30	11/30/22 16:15	1
Acenaphthene	ND		0.053	0.011	ug/L		11/23/22 17:30	11/30/22 16:15	1
Acenaphthylene	ND		0.053	0.011	ug/L		11/23/22 17:30	11/30/22 16:15	1
Anthracene	ND		0.053	0.011	ug/L		11/23/22 17:30	11/30/22 16:15	1
Benzo[a]anthracene	ND		0.053	0.011	ug/L		11/23/22 17:30	11/30/22 16:15	1
Benzo[a]pyrene	ND		0.053	0.011	ug/L		11/23/22 17:30	11/30/22 16:15	1
Benzo[b]fluoranthene	ND		0.053	0.011	ug/L		11/23/22 17:30	11/30/22 16:15	1
Benzo[g,h,i]perylene	ND		0.053	0.011	ug/L		11/23/22 17:30	11/30/22 16:15	1
Benzo[k]fluoranthene	ND		0.053	0.011	ug/L		11/23/22 17:30	11/30/22 16:15	1
Bis(2-chloroethyl)ether	ND		0.053	0.021	ug/L		11/23/22 17:30	11/30/22 16:15	1
Butylbenzylphthalate	ND	cn	1.1	0.053	ug/L		11/23/22 17:30	11/30/22 16:15	1
Chrysene	ND		0.053	0.011	ug/L		11/23/22 17:30	11/30/22 16:15	1
Dibenz(a,h)anthracene	ND		0.053	0.021	ug/L		11/23/22 17:30	11/30/22 16:15	1
Dibenzofuran	ND		0.053	0.011	ug/L		11/23/22 17:30	11/30/22 16:15	1
Diethylphthalate	ND		1.1	0.053	ug/L		11/23/22 17:30	11/30/22 16:15	1
Dimethylphthalate	ND		1.1	0.053	ug/L		11/23/22 17:30	11/30/22 16:15	1
Di-n-butyl phthalate	**0.57**	**J *+ B *1 cn**	1.1	0.053	ug/L		11/23/22 17:30	11/30/22 16:15	1
Di-n-octyl phthalate	ND		1.1	0.053	ug/L		11/23/22 17:30	11/30/22 16:15	1

Client Sample ID: FBW001_FB_112022 — Lab Sample ID: 410-106360-4

Date Collected: 11/17/22 10:14 — **Matrix: Water**
Date Received: 11/18/22 09:58

Method: SW846 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		0.053	0.011	ug/L		11/23/22 17:30	11/30/22 16:15	1
Fluorene	ND		0.053	0.011	ug/L		11/23/22 17:30	11/30/22 16:15	1
Hexachlorobenzene	ND		0.053	0.021	ug/L		11/23/22 17:30	11/30/22 16:15	1
Indeno[1,2,3-cd]pyrene	ND		0.053	0.021	ug/L		11/23/22 17:30	11/30/22 16:15	1
Naphthalene	ND		0.074	0.032	ug/L		11/23/22 17:30	11/30/22 16:15	1
N-Nitrosodimethylamine	ND		0.053	0.021	ug/L		11/23/22 17:30	11/30/22 16:15	1
Phenanthrene	ND		0.074	0.032	ug/L		11/23/22 17:30	11/30/22 16:15	1
Pyrene	ND		0.053	0.011	ug/L		11/23/22 17:30	11/30/22 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Methylnaphthalene-d10 (Surr)	*82*		*36 - 111*	*11/23/22 17:30*	*11/30/22 16:15*	*1*
Benzo(a)pyrene-d12 (Surr)	*77*		*10 - 110*	*11/23/22 17:30*	*11/30/22 16:15*	*1*
Fluoranthene-d10 (Surr)	*70*		*47 - 128*	*11/23/22 17:30*	*11/30/22 16:15*	*1*

Method: SW846 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	**1.1**	**B cn**	1.1	0.053	ug/L		11/23/22 17:30	12/01/22 08:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Methylnaphthalene-d10 (Surr)	*75*		*36 - 111*	*11/23/22 17:30*	*12/01/22 08:08*	*1*
Benzo(a)pyrene-d12 (Surr)	*78*		*10 - 110*	*11/23/22 17:30*	*12/01/22 08:08*	*1*
Fluoranthene-d10 (Surr)	*81*		*47 - 128*	*11/23/22 17:30*	*12/01/22 08:08*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dimethylphenol	ND		10	3	ug/L		11/23/22 17:30	11/25/22 01:13	1
2,4-Dinitrophenol	ND		30	10	ug/L		11/23/22 17:30	11/25/22 01:13	1
2-Chlorophenol	ND		2	0.5	ug/L		11/23/22 17:30	11/25/22 01:13	1
Carbazole	ND		2	0.5	ug/L		11/23/22 17:30	11/25/22 01:13	1
Phenol	ND		2	0.5	ug/L		11/23/22 17:30	11/25/22 01:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*85*		*10 - 150*	*11/23/22 17:30*	*11/25/22 01:13*	*1*
2-Fluorobiphenyl (Surr)	*80*		*44 - 120*	*11/23/22 17:30*	*11/25/22 01:13*	*1*
2-Fluorophenol (Surr)	*45*		*10 - 120*	*11/23/22 17:30*	*11/25/22 01:13*	*1*
Nitrobenzene-d5 (Surr)	*79*		*25 - 125*	*11/23/22 17:30*	*11/25/22 01:13*	*1*
Phenol-d5 (Surr)	*30*		*10 - 120*	*11/23/22 17:30*	*11/25/22 01:13*	*1*
p-Terphenyl-d14 (Surr)	*91*		*37 - 120*	*11/23/22 17:30*	*11/25/22 01:13*	*1*

Client Sample ID: Trip Blank — Lab Sample ID: 410-106360-5

Date Collected: 11/17/22 00:00 — **Matrix: Water**
Date Received: 11/18/22 09:58

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			11/30/22 21:53	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			11/30/22 21:53	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			11/30/22 21:53	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			11/30/22 21:53	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			11/30/22 21:53	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/L			11/30/22 21:53	1

Client Sample ID: Trip Blank
Date Collected: 11/17/22 00:00
Date Received: 11/18/22 09:58

Lab Sample ID: 410-106360-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			11/30/22 21:53	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.30	ug/L			11/30/22 21:53	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			11/30/22 21:53	1
1,2-Dichlorobenzene	ND		5.0	0.20	ug/L			11/30/22 21:53	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			11/30/22 21:53	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			11/30/22 21:53	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			11/30/22 21:53	1
1,3-Dichlorobenzene	ND		5.0	0.68	ug/L			11/30/22 21:53	1
1,4-Dichlorobenzene	ND		5.0	0.30	ug/L			11/30/22 21:53	1
2-Butanone	ND		10	0.50	ug/L			11/30/22 21:53	1
2-Hexanone	ND		10	0.85	ug/L			11/30/22 21:53	1
4-Methyl-2-pentanone	ND		10	0.50	ug/L			11/30/22 21:53	1
Acetone	ND	cn	20	0.70	ug/L			11/30/22 21:53	1
Benzene	ND		1.0	0.30	ug/L			11/30/22 21:53	1
Bromodichloromethane	ND		1.0	0.20	ug/L			11/30/22 21:53	1
Bromoform	ND		4.0	1.0	ug/L			11/30/22 21:53	1
Bromomethane	ND		1.0	0.30	ug/L			11/30/22 21:53	1
Carbon disulfide	ND		5.0	0.30	ug/L			11/30/22 21:53	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			11/30/22 21:53	1
Chlorobenzene	ND		1.0	0.30	ug/L			11/30/22 21:53	1
Chloroethane	ND		1.0	0.20	ug/L			11/30/22 21:53	1
Chloroform	ND		1.0	0.30	ug/L			11/30/22 21:53	1
Chloromethane	ND		2.0	0.55	ug/L			11/30/22 21:53	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			11/30/22 21:53	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			11/30/22 21:53	1
Cyclohexane	ND		5.0	1.0	ug/L			11/30/22 21:53	1
Dibromochloromethane	ND		1.0	0.20	ug/L			11/30/22 21:53	1
Dichlorodifluoromethane	ND		1.0	0.20	ug/L			11/30/22 21:53	1
Ethylbenzene	ND		1.0	0.40	ug/L			11/30/22 21:53	1
Freon 113	ND		10	0.30	ug/L			11/30/22 21:53	1
Isopropylbenzene	ND		5.0	0.20	ug/L			11/30/22 21:53	1
Methyl acetate	ND		5.0	0.30	ug/L			11/30/22 21:53	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			11/30/22 21:53	1
Methylcyclohexane	ND		5.0	0.50	ug/L			11/30/22 21:53	1
Methylene Chloride	ND		1.0	0.30	ug/L			11/30/22 21:53	1
Styrene	ND		5.0	0.30	ug/L			11/30/22 21:53	1
Tetrachloroethene	ND		1.0	0.30	ug/L			11/30/22 21:53	1
Toluene	ND		1.0	0.20	ug/L			11/30/22 21:53	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			11/30/22 21:53	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			11/30/22 21:53	1
Trichloroethene	ND		1.0	0.30	ug/L			11/30/22 21:53	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			11/30/22 21:53	1
Vinyl chloride	ND		1.0	0.20	ug/L			11/30/22 21:53	1
Xylenes, Total	ND		1.0	0.40	ug/L			11/30/22 21:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*11/30/22 21:53*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*11/30/22 21:53*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*11/30/22 21:53*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*11/30/22 21:53*	*1*

Action Limit Summary

Client: Environmental Works, Inc.
Project/Site: Springfield, MO – OFIWP

Job ID: 410-106360-1

Client Sample ID: FBS010_112022 — Lab Sample ID: 410-106360-1

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

Analyte	Result	Qualifier	Unit	Limit	RL	Method	Prep Type
Benzene	ND		ug/L	5	1.0	8260C	Total/NA
Ethylbenzene	ND		ug/L	700	1.0	8260C	Total/NA
Toluene	ND		ug/L	1000	1.0	8260C	Total/NA
Xylenes, Total	ND		ug/L	10000	1.0	8260C	Total/NA

Client Sample ID: DUP-01_112022 — Lab Sample ID: 410-106360-2

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

Analyte	Result	Qualifier	Unit	Limit	RL	Method	Prep Type
Benzene	ND		ug/L	5	1.0	8260C	Total/NA
Ethylbenzene	ND		ug/L	700	1.0	8260C	Total/NA
Toluene	ND		ug/L	1000	1.0	8260C	Total/NA
Xylenes, Total	ND		ug/L	10000	1.0	8260C	Total/NA

Client Sample ID: FBW001_112022 — Lab Sample ID: 410-106360-3

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

Analyte	Result	Qualifier	Unit	Limit	RL	Method	Prep Type
Benzene	ND		ug/L	5	1.0	8260C	Total/NA
Ethylbenzene	ND		ug/L	700	1.0	8260C	Total/NA
Toluene	ND		ug/L	1000	1.0	8260C	Total/NA
Xylenes, Total	ND		ug/L	10000	1.0	8260C	Total/NA

Client Sample ID: FBW001_FB_112022 — Lab Sample ID: 410-106360-4

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

Analyte	Result	Qualifier	Unit	Limit	RL	Method	Prep Type
Benzene	ND		ug/L	5	1.0	8260C	Total/NA
Ethylbenzene	ND		ug/L	700	1.0	8260C	Total/NA
Toluene	ND		ug/L	1000	1.0	8260C	Total/NA
Xylenes, Total	ND		ug/L	10000	1.0	8260C	Total/NA

Action Limit Summary

Client: Environmental Works, Inc.
Project/Site: Springfield, MO – OFIWP

Job ID: 410-106360-1

Client Sample ID: Trip Blank

Lab Sample ID: 410-106360-5

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

Analyte	Result	Qualifier	Unit	Limit	RL	Method	Prep Type
Benzene	ND		ug/L	5	1.0	8260C	Total/NA
Ethylbenzene	ND		ug/L	700	1.0	8260C	Total/NA
Toluene	ND		ug/L	1000	1.0	8260C	Total/NA
Xylenes, Total	ND		ug/L	10000	1.0	8260C	Total/NA

Action Limit Summary

Client: Environmental Works, Inc.
Project/Site: Springfield, MO – OFIWP

Job ID: 410-106360-1

Client Sample ID: FBS010_112022

Lab Sample ID: 410-106360-1

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

Analyte	Result	Qualifier	Unit	Limit	RL	Method	Prep Type
Benzene	ND		ug/L	5	1.0	8260C	Total/NA
Ethylbenzene	ND		ug/L	700	1.0	8260C	Total/NA
Toluene	ND		ug/L	1000	1.0	8260C	Total/NA
Xylenes, Total	ND		ug/L	10000	1.0	8260C	Total/NA
2-Methylnaphthalene	ND		ug/L	36	0.053	8270D SIM	Total/NA
Acenaphthene	ND		ug/L	1200	0.053	8270D SIM	Total/NA
Anthracene	ND		ug/L	9600	0.053	8270D SIM	Total/NA
Benzo[a]anthracene	ND		ug/L	0.1	0.053	8270D SIM	Total/NA
Benzo[a]pyrene	ND		ug/L	0.1	0.053	8270D SIM	Total/NA
Benzo[b]fluoranthene	ND		ug/L	0.1	0.053	8270D SIM	Total/NA
Benzo[k]fluoranthene	ND		ug/L	0.1	0.053	8270D SIM	Total/NA
Chrysene	ND		ug/L	0.1	0.053	8270D SIM	Total/NA
Dibenz(a,h)anthracene	ND		ug/L	0.1	0.053	8270D SIM	Total/NA
Dibenzofuran	ND		ug/L	7.9	0.053	8270D SIM	Total/NA
Fluoranthene	0.030	J	ug/L	300	0.053	8270D SIM	Total/NA
Fluorene	ND		ug/L	1300	0.053	8270D SIM	Total/NA
Indeno[1,2,3-cd]pyrene	ND		ug/L	0.1	0.053	8270D SIM	Total/NA
Naphthalene	ND		ug/L	20	0.074	8270D SIM	Total/NA
Pyrene	0.022	J	ug/L	960	0.053	8270D SIM	Total/NA
2,4-Dimethylphenol	ND		ug/L	540	10	8270D	Total/NA
2,4-Dinitrophenol	ND		ug/L	70	30	8270D	Total/NA
2-Chlorophenol	ND		ug/L	0.5	2	8270D	Total/NA
Phenol	ND		ug/L	300	2	8270D	Total/NA

Client Sample ID: DUP-01_112022

Lab Sample ID: 410-106360-2

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

Analyte	Result	Qualifier	Unit	Limit	RL	Method	Prep Type
Benzene	ND		ug/L	5	1.0	8260C	Total/NA
Ethylbenzene	ND		ug/L	700	1.0	8260C	Total/NA
Toluene	ND		ug/L	1000	1.0	8260C	Total/NA
Xylenes, Total	ND		ug/L	10000	1.0	8260C	Total/NA
2-Methylnaphthalene	ND		ug/L	36	0.052	8270D SIM	Total/NA
Acenaphthene	ND		ug/L	1200	0.052	8270D SIM	Total/NA
Anthracene	ND		ug/L	9600	0.052	8270D SIM	Total/NA
Benzo[a]anthracene	ND		ug/L	0.1	0.052	8270D SIM	Total/NA
Benzo[a]pyrene	ND		ug/L	0.1	0.052	8270D SIM	Total/NA
Benzo[b]fluoranthene	ND		ug/L	0.1	0.052	8270D SIM	Total/NA
Benzo[k]fluoranthene	ND		ug/L	0.1	0.052	8270D SIM	Total/NA
Chrysene	ND		ug/L	0.1	0.052	8270D SIM	Total/NA
Dibenz(a,h)anthracene	ND		ug/L	0.1	0.052	8270D SIM	Total/NA
Dibenzofuran	ND		ug/L	7.9	0.052	8270D SIM	Total/NA
Fluoranthene	0.018	J	ug/L	300	0.052	8270D SIM	Total/NA
Fluorene	ND		ug/L	1300	0.052	8270D SIM	Total/NA

Client Sample ID: DUP-01_112022 (Continued) Lab Sample ID: 410-106360-2

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

Analyte	Result	Qualifier	Unit	Limit	RL	Method	Prep Type
Indeno[1,2,3-cd]pyrene	ND		ug/L	0.1	0.052	8270D SIM	Total/NA
Naphthalene	ND		ug/L	20	0.073	8270D SIM	Total/NA
Pyrene	0.011	J	ug/L	960	0.052	8270D SIM	Total/NA
2,4-Dimethylphenol	ND		ug/L	540	10	8270D	Total/NA
2,4-Dinitrophenol	ND		ug/L	70	30	8270D	Total/NA
2-Chlorophenol	ND		ug/L	0.5	2	8270D	Total/NA
Phenol	ND		ug/L	300	2	8270D	Total/NA

Client Sample ID: FBW001_112022 Lab Sample ID: 410-106360-3

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

Analyte	Result	Qualifier	Unit	Limit	RL	Method	Prep Type
Benzene	ND		ug/L	5	1.0	8260C	Total/NA
Ethylbenzene	ND		ug/L	700	1.0	8260C	Total/NA
Toluene	ND		ug/L	1000	1.0	8260C	Total/NA
Xylenes, Total	ND		ug/L	10000	1.0	8260C	Total/NA
2-Methylnaphthalene	ND		ug/L	36	0.051	8270D SIM	Total/NA
Acenaphthene	ND		ug/L	1200	0.051	8270D SIM	Total/NA
Anthracene	0.013	J	ug/L	9600	0.051	8270D SIM	Total/NA
Benzo[a]anthracene	0.019	J	ug/L	0.1	0.051	8270D SIM	Total/NA
Benzo[a]pyrene	0.011	J	ug/L	0.1	0.051	8270D SIM	Total/NA
Benzo[b]fluoranthene	0.015	J	ug/L	0.1	0.051	8270D SIM	Total/NA
Benzo[k]fluoranthene	0.012	J	ug/L	0.1	0.051	8270D SIM	Total/NA
Chrysene	0.017	J	ug/L	0.1	0.051	8270D SIM	Total/NA
Dibenz(a,h)anthracene	ND		ug/L	0.1	0.051	8270D SIM	Total/NA
Dibenzofuran	0.010	J	ug/L	7.9	0.051	8270D SIM	Total/NA
Fluoranthene	0.018	J	ug/L	300	0.051	8270D SIM	Total/NA
Fluorene	0.012	J	ug/L	1300	0.051	8270D SIM	Total/NA
Indeno[1,2,3-cd]pyrene	ND		ug/L	0.1	0.051	8270D SIM	Total/NA
Naphthalene	ND		ug/L	20	0.072	8270D SIM	Total/NA
Pyrene	0.021	J	ug/L	960	0.051	8270D SIM	Total/NA
2,4-Dimethylphenol	ND		ug/L	540	10	8270D	Total/NA
2,4-Dinitrophenol	ND		ug/L	70	30	8270D	Total/NA
2-Chlorophenol	ND		ug/L	0.5	2	8270D	Total/NA
Phenol	ND		ug/L	300	2	8270D	Total/NA

Client Sample ID: FBW001_FB_112022 Lab Sample ID: 410-106360-4

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

Analyte	Result	Qualifier	Unit	Limit	RL	Method	Prep Type
Benzene	ND		ug/L	5	1.0	8260C	Total/NA

Client Sample ID: FBW001_FB_112022 (Continued) Lab Sample ID: 410-106360-4

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

Analyte	Result	Qualifier	Unit	Limit	RL	Method	Prep Type
Ethylbenzene	ND		ug/L	700	1.0	8260C	Total/NA
Toluene	ND		ug/L	1000	1.0	8260C	Total/NA
Xylenes, Total	ND		ug/L	10000	1.0	8260C	Total/NA
2-Methylnaphthalene	ND		ug/L	36	0.053	8270D SIM	Total/NA
Acenaphthene	ND		ug/L	1200	0.053	8270D SIM	Total/NA
Anthracene	ND		ug/L	9600	0.053	8270D SIM	Total/NA
Benzo[a]anthracene	ND		ug/L	0.1	0.053	8270D SIM	Total/NA
Benzo[a]pyrene	ND		ug/L	0.1	0.053	8270D SIM	Total/NA
Benzo[b]fluoranthene	ND		ug/L	0.1	0.053	8270D SIM	Total/NA
Benzo[k]fluoranthene	ND		ug/L	0.1	0.053	8270D SIM	Total/NA
Chrysene	ND		ug/L	0.1	0.053	8270D SIM	Total/NA
Dibenz(a,h)anthracene	ND		ug/L	0.1	0.053	8270D SIM	Total/NA
Dibenzofuran	ND		ug/L	7.9	0.053	8270D SIM	Total/NA
Fluoranthene	ND		ug/L	300	0.053	8270D SIM	Total/NA
Fluorene	ND		ug/L	1300	0.053	8270D SIM	Total/NA
Indeno[1,2,3-cd]pyrene	ND		ug/L	0.1	0.053	8270D SIM	Total/NA
Naphthalene	ND		ug/L	20	0.074	8270D SIM	Total/NA
Pyrene	ND		ug/L	960	0.053	8270D SIM	Total/NA
2,4-Dimethylphenol	ND		ug/L	540	10	8270D	Total/NA
2,4-Dinitrophenol	ND		ug/L	70	30	8270D	Total/NA
2-Chlorophenol	ND		ug/L	0.5	2	8270D	Total/NA
Phenol	ND		ug/L	300	2	8270D	Total/NA

Client Sample ID: Trip Blank Lab Sample ID: 410-106360-5

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

Analyte	Result	Qualifier	Unit	Limit	RL	Method	Prep Type
Benzene	ND		ug/L	5	1.0	8260C	Total/NA
Ethylbenzene	ND		ug/L	700	1.0	8260C	Total/NA
Toluene	ND		ug/L	1000	1.0	8260C	Total/NA
Xylenes, Total	ND		ug/L	10000	1.0	8260C	Total/NA

Default Detection Limits

Client: Environmental Works, Inc.
Project/Site: Springfield, MO – OFIWP

Job ID: 410-106360-1

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

Analyte	RL	MDL	Units
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
1,2,4-Trichlorobenzene	5.0	0.30	ug/L
1,2,4-Trimethylbenzene	5.0	1.0	ug/L
1,2-Dibromo-3-Chloropropane	5.0	0.30	ug/L
1,2-Dibromoethane	1.0	0.20	ug/L
1,2-Dichlorobenzene	5.0	0.20	ug/L
1,2-Dichloroethane	1.0	0.30	ug/L
1,2-Dichloropropane	1.0	0.30	ug/L
1,3,5-Trimethylbenzene	5.0	0.30	ug/L
1,3-Dichlorobenzene	5.0	0.68	ug/L
1,4-Dichlorobenzene	5.0	0.30	ug/L
2-Butanone	10	0.50	ug/L
2-Hexanone	10	0.85	ug/L
4-Methyl-2-pentanone	10	0.50	ug/L
Acetone	20	0.70	ug/L
Benzene	1.0	0.30	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	0.20	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
Cyclohexane	5.0	1.0	ug/L
Dibromochloromethane	1.0	0.20	ug/L
Dichlorodifluoromethane	1.0	0.20	ug/L
Ethylbenzene	1.0	0.40	ug/L
Freon 113	10	0.30	ug/L
Isopropylbenzene	5.0	0.20	ug/L
Methyl acetate	5.0	0.30	ug/L
Methyl tertiary butyl ether	1.0	0.20	ug/L
Methylcyclohexane	5.0	0.50	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	0.20	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
Trichlorofluoromethane	1.0	0.20	ug/L
Vinyl chloride	1.0	0.20	ug/L
Xylenes, Total	1.0	0.40	ug/L

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

Analyte	RL	MDL	Units
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
1,2,4-Trichlorobenzene	5.0	0.30	ug/L
1,2,4-Trimethylbenzene	5.0	1.0	ug/L
1,2-Dibromo-3-Chloropropane	5.0	0.30	ug/L
1,2-Dibromoethane	1.0	0.20	ug/L
1,2-Dichlorobenzene	5.0	0.20	ug/L
1,2-Dichloroethane	1.0	0.30	ug/L
1,2-Dichloropropane	1.0	0.30	ug/L
1,3,5-Trimethylbenzene	5.0	0.30	ug/L
1,3-Dichlorobenzene	5.0	0.68	ug/L
1,4-Dichlorobenzene	5.0	0.30	ug/L
2-Butanone	10	0.50	ug/L
2-Hexanone	10	0.85	ug/L
4-Methyl-2-pentanone	10	0.50	ug/L
Acetone	20	0.70	ug/L
Benzene	1.0	0.30	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	0.20	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
Cyclohexane	5.0	1.0	ug/L
Dibromochloromethane	1.0	0.20	ug/L
Dichlorodifluoromethane	1.0	0.20	ug/L
Ethylbenzene	1.0	0.40	ug/L
Freon 113	10	0.30	ug/L
Isopropylbenzene	5.0	0.20	ug/L
Methyl acetate	5.0	0.30	ug/L
Methyl tertiary butyl ether	1.0	0.20	ug/L
Methylcyclohexane	5.0	0.50	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	0.20	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
Trichlorofluoromethane	1.0	0.20	ug/L
Vinyl chloride	1.0	0.20	ug/L
Xylenes, Total	1.0	0.40	ug/L

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Prep: 3510C

Default Detection Limits

Client: Environmental Works, Inc.
Project/Site: Springfield, MO – OFIWP

Job ID: 410-106360-1

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Prep: 3510C

Analyte	RL	MDL	Units
1,4-Dioxane	0.30	0.10	ug/L
1-Methylnaphthalene	0.050	0.020	ug/L
2-Methylnaphthalene	0.050	0.020	ug/L
Acenaphthene	0.050	0.010	ug/L
Acenaphthylene	0.050	0.010	ug/L
Anthracene	0.050	0.010	ug/L
Benzo[a]anthracene	0.050	0.010	ug/L
Benzo[a]pyrene	0.050	0.010	ug/L
Benzo[b]fluoranthene	0.050	0.010	ug/L
Benzo[g,h,i]perylene	0.050	0.010	ug/L
Benzo[k]fluoranthene	0.050	0.010	ug/L
Bis(2-chloroethyl)ether	0.050	0.020	ug/L
Bis(2-ethylhexyl) phthalate	1.0	0.050	ug/L
Butylbenzylphthalate	1.0	0.050	ug/L
Chrysene	0.050	0.010	ug/L
Dibenz(a,h)anthracene	0.050	0.020	ug/L
Dibenzofuran	0.050	0.010	ug/L
Diethylphthalate	1.0	0.050	ug/L
Dimethylphthalate	1.0	0.050	ug/L
Di-n-butyl phthalate	1.0	0.050	ug/L
Di-n-octyl phthalate	1.0	0.050	ug/L
Fluoranthene	0.050	0.010	ug/L
Fluorene	0.050	0.010	ug/L
Hexachlorobenzene	0.050	0.020	ug/L
Indeno[1,2,3-cd]pyrene	0.050	0.020	ug/L
Naphthalene	0.070	0.030	ug/L
N-Nitrosodimethylamine	0.050	0.020	ug/L
Phenanthrene	0.070	0.030	ug/L
Pyrene	0.050	0.010	ug/L

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Prep: 3510C

Analyte	RL	MDL	Units
2,4-Dimethylphenol	10	3	ug/L
2,4-Dinitrophenol	30	10	ug/L
2-Chlorophenol	2	0.5	ug/L
Carbazole	2	0.5	ug/L
Phenol	2	0.5	ug/L

Surrogate Summary

Client: Environmental Works, Inc.
Project/Site: Springfield, MO – OFIWP

Job ID: 410-106360-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-106360-1	FBS010_112022	101	95	102	104
410-106360-2	DUP-01_112022	99	93	100	101
410-106360-3	FBW001_112022	95	95	101	102
410-106360-3 MS	FBW001-MS_112022	103	93	101	104
410-106360-3 MSD	FBW001-MSD_112022	99	93	101	104
410-106360-4	FBW001_FB_112022	100	94	99	104
410-106360-5	Trip Blank	101	93	99	104
LCS 410-322343/4	Lab Control Sample	100	94	100	104
LCSD 410-322343/5	Lab Control Sample Dup	103	94	101	104
MB 410-322343/7	Method Blank	94	92	99	102

Surrogate Legend

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

Surrogate Summary

Client: Environmental Works, Inc.
Project/Site: Springfield, MO – OFIWP

Job ID: 410-106360-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-106360-1	FBS010_112022	101	95	102	104
410-106360-2	DUP-01_112022	99	93	100	101
410-106360-3	FBW001_112022	95	95	101	102
410-106360-3 MS	FBW001-MS_112022	103	93	101	104
410-106360-3 MSD	FBW001-MSD_112022	99	93	101	104
410-106360-4	FBW001_FB_112022	100	94	99	104
410-106360-5	Trip Blank	101	93	99	104
LCS 410-322343/4	Lab Control Sample	100	94	100	104
LCSD 410-322343/5	Lab Control Sample Dup	103	94	101	104
MB 410-322343/7	Method Blank	94	92	99	102

Surrogate Legend

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

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(10-150)	(44-120)	(10-120)	(25-125)	(10-120)	(37-120)
410-106360-1	FBS010_112022	84	77	43	77	29	92
410-106360-2	DUP-01_112022	90	81	47	81	31	97
410-106360-3	FBW001_112022	83	74	34	75	22	71
410-106360-3 MS	FBW001-MS_112022	103	89	63	89	45	106
410-106360-3 MSD	FBW001-MSD_112022	103	90	61	92	44	108
410-106360-4	FBW001_FB_112022	85	80	45	79	30	91
LCS 410-320749/2-A	Lab Control Sample	102	90	62	91	45	107
LCSD 410-320749/3-A	Lab Control Sample Dup	101	86	65	92	46	107
MB 410-320749/1-A	Method Blank	90	76	53	82	35	99

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		MNPd10	BAPd12	FLN10
Lab Sample ID	Client Sample ID	(36-111)	(10-110)	(47-128)
410-106360-1	FBS010_112022	78	73	71
410-106360-1 - RA	FBS010_112022	76	76	80
410-106360-2	DUP-01_112022	82	73	70
410-106360-2 - RA	DUP-01_112022	76	75	82

Surrogate Summary

Client: Environmental Works, Inc. Job ID: 410-106360-1
Project/Site: Springfield, MO – OFIWP

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		MNPd10	BAPd12	FLN10
Lab Sample ID	Client Sample ID	(36-111)	(10-110)	(47-128)
410-106360-3	FBW001_112022	71	54	63
410-106360-3 - RA	FBW001_112022	65	55	70
410-106360-3 MS	FBW001-MS_112022	75	78	77
410-106360-3 MSD	FBW001-MSD_112022	75	77	73
410-106360-4	FBW001_FB_112022	82	77	70
410-106360-4 - RA	FBW001_FB_112022	75	78	81
LCS 410-320750/2-A	Lab Control Sample	73	87	74
LCSD 410-320750/3-A	Lab Control Sample Dup	74	88	75
MB 410-320750/1-A	Method Blank	79	84	76

Surrogate Legend

MNPd10 = 1-Methylnaphthalene-d10 (Surr)
BAPd12 = Benzo(a)pyrene-d12 (Surr)
FLN10 = Fluoranthene-d10 (Surr)

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

Lab Sample ID: MB 410-322343/7
Matrix: Water
Analysis Batch: 322343

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-Trichloroethane	ND		1.0	0.30	ug/L			11/30/22 21:13	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			11/30/22 21:13	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			11/30/22 21:13	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			11/30/22 21:13	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			11/30/22 21:13	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/L			11/30/22 21:13	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			11/30/22 21:13	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.30	ug/L			11/30/22 21:13	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			11/30/22 21:13	1
1,2-Dichlorobenzene	ND		5.0	0.20	ug/L			11/30/22 21:13	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			11/30/22 21:13	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			11/30/22 21:13	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			11/30/22 21:13	1
1,3-Dichlorobenzene	ND		5.0	0.68	ug/L			11/30/22 21:13	1
1,4-Dichlorobenzene	ND		5.0	0.30	ug/L			11/30/22 21:13	1
2-Butanone	ND		10	0.50	ug/L			11/30/22 21:13	1
2-Hexanone	ND		10	0.85	ug/L			11/30/22 21:13	1
4-Methyl-2-pentanone	ND		10	0.50	ug/L			11/30/22 21:13	1
Acetone	ND		20	0.70	ug/L			11/30/22 21:13	1
Benzene	ND		1.0	0.30	ug/L			11/30/22 21:13	1
Bromodichloromethane	ND		1.0	0.20	ug/L			11/30/22 21:13	1
Bromoform	ND		4.0	1.0	ug/L			11/30/22 21:13	1
Bromomethane	ND		1.0	0.30	ug/L			11/30/22 21:13	1
Carbon disulfide	ND		5.0	0.30	ug/L			11/30/22 21:13	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			11/30/22 21:13	1
Chlorobenzene	ND		1.0	0.30	ug/L			11/30/22 21:13	1
Chloroethane	ND		1.0	0.20	ug/L			11/30/22 21:13	1
Chloroform	ND		1.0	0.30	ug/L			11/30/22 21:13	1
Chloromethane	ND		2.0	0.55	ug/L			11/30/22 21:13	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			11/30/22 21:13	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			11/30/22 21:13	1
Cyclohexane	ND		5.0	1.0	ug/L			11/30/22 21:13	1
Dibromochloromethane	ND		1.0	0.20	ug/L			11/30/22 21:13	1
Dichlorodifluoromethane	ND		1.0	0.20	ug/L			11/30/22 21:13	1
Ethylbenzene	ND		1.0	0.40	ug/L			11/30/22 21:13	1
Freon 113	ND		10	0.30	ug/L			11/30/22 21:13	1
Isopropylbenzene	ND		5.0	0.20	ug/L			11/30/22 21:13	1
Methyl acetate	ND		5.0	0.30	ug/L			11/30/22 21:13	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			11/30/22 21:13	1
Methylcyclohexane	ND		5.0	0.50	ug/L			11/30/22 21:13	1
Methylene Chloride	ND		1.0	0.30	ug/L			11/30/22 21:13	1
Styrene	ND		5.0	0.30	ug/L			11/30/22 21:13	1
Tetrachloroethene	ND		1.0	0.30	ug/L			11/30/22 21:13	1
Toluene	ND		1.0	0.20	ug/L			11/30/22 21:13	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			11/30/22 21:13	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			11/30/22 21:13	1
Trichloroethene	ND		1.0	0.30	ug/L			11/30/22 21:13	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			11/30/22 21:13	1

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

Lab Sample ID: MB 410-322343/7
Matrix: Water
Analysis Batch: 322343

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		1.0	0.20	ug/L			11/30/22 21:13	1
Xylenes, Total	ND		1.0	0.40	ug/L			11/30/22 21:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*80 - 120*		*11/30/22 21:13*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*11/30/22 21:13*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*11/30/22 21:13*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*11/30/22 21:13*	*1*

Lab Sample ID: LCS 410-322343/4
Matrix: Water
Analysis Batch: 322343

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-Trichloroethane	20.0	18.6		ug/L		93	67 - 126
1,1,2,2-Tetrachloroethane	20.0	20.3		ug/L		102	72 - 120
1,1,2-Trichloroethane	20.0	20.2		ug/L		101	80 - 120
1,1-Dichloroethane	20.0	19.4		ug/L		97	80 - 120
1,1-Dichloroethene	20.0	19.8		ug/L		99	80 - 131
1,2,4-Trichlorobenzene	20.0	22.0		ug/L		110	63 - 120
1,2,4-Trimethylbenzene	20.0	22.1		ug/L		111	75 - 120
1,2-Dibromo-3-Chloropropane	20.0	16.5		ug/L		82	47 - 131
1,2-Dibromoethane	20.0	20.9		ug/L		104	77 - 120
1,2-Dichlorobenzene	20.0	22.0		ug/L		110	80 - 120
1,2-Dichloroethane	20.0	18.6		ug/L		93	73 - 124
1,2-Dichloropropane	20.0	19.1		ug/L		95	80 - 120
1,3,5-Trimethylbenzene	20.0	21.9		ug/L		109	75 - 120
1,3-Dichlorobenzene	20.0	22.0		ug/L		110	80 - 120
1,4-Dichlorobenzene	20.0	21.7		ug/L		109	80 - 120
2-Butanone	250	212		ug/L		85	59 - 135
2-Hexanone	250	245		ug/L		98	56 - 135
4-Methyl-2-pentanone	250	226		ug/L		90	62 - 133
Acetone	250	287		ug/L		115	54 - 157
Benzene	20.0	19.9		ug/L		99	80 - 120
Bromodichloromethane	20.0	17.7		ug/L		89	71 - 120
Bromoform	20.0	18.4		ug/L		92	51 - 120
Bromomethane	20.0	18.6		ug/L		93	53 - 128
Carbon disulfide	20.0	21.2		ug/L		106	65 - 128
Carbon tetrachloride	20.0	18.3		ug/L		91	64 - 134
Chlorobenzene	20.0	21.0		ug/L		105	80 - 120
Chloroethane	20.0	18.6		ug/L		93	55 - 123
Chloroform	20.0	19.2		ug/L		96	80 - 120
Chloromethane	20.0	18.7		ug/L		94	56 - 121
cis-1,2-Dichloroethene	20.0	20.5		ug/L		103	80 - 125
cis-1,3-Dichloropropene	20.0	17.3		ug/L		87	75 - 120
Cyclohexane	20.0	19.9		ug/L		99	68 - 126
Dibromochloromethane	20.0	18.7		ug/L		93	71 - 120
Dichlorodifluoromethane	20.0	13.9		ug/L		70	41 - 127

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

Lab Sample ID: LCS 410-322343/4
Matrix: Water
Analysis Batch: 322343

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	20.0	21.5		ug/L		108	80 - 120
Freon 113	20.0	21.0		ug/L		105	73 - 139
Isopropylbenzene	20.0	22.7		ug/L		113	80 - 120
Methyl acetate	20.0	18.9		ug/L		95	54 - 136
Methyl tertiary butyl ether	20.0	19.8		ug/L		99	69 - 122
Methylcyclohexane	20.0	20.6		ug/L		103	67 - 121
Methylene Chloride	20.0	19.0		ug/L		95	80 - 120
Styrene	20.0	20.9		ug/L		105	80 - 120
Tetrachloroethene	20.0	22.1		ug/L		110	80 - 120
Toluene	20.0	21.4		ug/L		107	80 - 120
trans-1,2-Dichloroethene	20.0	18.8		ug/L		94	80 - 126
trans-1,3-Dichloropropene	20.0	17.7		ug/L		89	67 - 120
Trichloroethene	20.0	18.9		ug/L		94	80 - 120
Trichlorofluoromethane	20.0	16.6		ug/L		83	55 - 135
Vinyl chloride	20.0	17.9		ug/L		90	56 - 120
Xylenes, Total	60.0	65.2		ug/L		109	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*80 - 120*
Toluene-d8 (Surr)	*104*		*80 - 120*

Lab Sample ID: LCSD 410-322343/5
Matrix: Water
Analysis Batch: 322343

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-Trichloroethane	20.0	18.8		ug/L		94	67 - 126	1	30
1,1,2,2-Tetrachloroethane	20.0	20.5		ug/L		103	72 - 120	1	30
1,1,2-Trichloroethane	20.0	19.4		ug/L		97	80 - 120	4	30
1,1-Dichloroethane	20.0	19.6		ug/L		98	80 - 120	1	30
1,1-Dichloroethene	20.0	19.1		ug/L		95	80 - 131	4	30
1,2,4-Trichlorobenzene	20.0	22.4		ug/L		112	63 - 120	2	30
1,2,4-Trimethylbenzene	20.0	22.0		ug/L		110	75 - 120	0	30
1,2-Dibromo-3-Chloropropane	20.0	16.6		ug/L		83	47 - 131	0	30
1,2-Dibromoethane	20.0	20.9		ug/L		105	77 - 120	0	30
1,2-Dichlorobenzene	20.0	22.2		ug/L		111	80 - 120	1	30
1,2-Dichloroethane	20.0	18.6		ug/L		93	73 - 124	0	30
1,2-Dichloropropane	20.0	19.5		ug/L		98	80 - 120	2	30
1,3,5-Trimethylbenzene	20.0	21.6		ug/L		108	75 - 120	1	30
1,3-Dichlorobenzene	20.0	21.7		ug/L		109	80 - 120	1	30
1,4-Dichlorobenzene	20.0	21.7		ug/L		108	80 - 120	0	30
2-Butanone	250	219		ug/L		87	59 - 135	3	30
2-Hexanone	250	242		ug/L		97	56 - 135	1	30
4-Methyl-2-pentanone	250	230		ug/L		92	62 - 133	2	30
Acetone	250	275		ug/L		110	54 - 157	4	30
Benzene	20.0	20.0		ug/L		100	80 - 120	1	30

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

Lab Sample ID: LCSD 410-322343/5
Matrix: Water
Analysis Batch: 322343

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
Bromodichloromethane			20.0	18.0		ug/L		90	71 - 120	2	30
Bromoform			20.0	17.8		ug/L		89	51 - 120	3	30
Bromomethane			20.0	18.6		ug/L		93	53 - 128	0	30
Carbon disulfide			20.0	20.8		ug/L		104	65 - 128	2	30
Carbon tetrachloride			20.0	18.1		ug/L		91	64 - 134	1	30
Chlorobenzene			20.0	21.0		ug/L		105	80 - 120	0	30
Chloroethane			20.0	18.7		ug/L		94	55 - 123	1	30
Chloroform			20.0	19.2		ug/L		96	80 - 120	0	30
Chloromethane			20.0	19.0		ug/L		95	56 - 121	1	30
cis-1,2-Dichloroethene			20.0	20.6		ug/L		103	80 - 125	0	30
cis-1,3-Dichloropropene			20.0	17.2		ug/L		86	75 - 120	1	30
Cyclohexane			20.0	20.3		ug/L		101	68 - 126	2	30
Dibromochloromethane			20.0	18.6		ug/L		93	71 - 120	1	30
Dichlorodifluoromethane			20.0	14.0		ug/L		70	41 - 127	0	30
Ethylbenzene			20.0	21.7		ug/L		108	80 - 120	1	30
Freon 113			20.0	20.9		ug/L		104	73 - 139	1	30
Isopropylbenzene			20.0	22.3		ug/L		111	80 - 120	2	30
Methyl acetate			20.0	23.2		ug/L		116	54 - 136	20	30
Methyl tertiary butyl ether			20.0	20.1		ug/L		101	69 - 122	2	30
Methylcyclohexane			20.0	21.1		ug/L		105	67 - 121	2	30
Methylene Chloride			20.0	19.3		ug/L		96	80 - 120	1	30
Styrene			20.0	20.7		ug/L		103	80 - 120	1	30
Tetrachloroethene			20.0	22.1		ug/L		111	80 - 120	0	30
Toluene			20.0	20.5		ug/L		103	80 - 120	4	30
trans-1,2-Dichloroethene			20.0	19.8		ug/L		99	80 - 126	5	30
trans-1,3-Dichloropropene			20.0	18.0		ug/L		90	67 - 120	2	30
Trichloroethene			20.0	19.6		ug/L		98	80 - 120	4	30
Trichlorofluoromethane			20.0	16.6		ug/L		83	55 - 135	0	30
Vinyl chloride			20.0	17.8		ug/L		89	56 - 120	1	30
Xylenes, Total			60.0	64.5		ug/L		108	80 - 120	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 120*
Toluene-d8 (Surr)	*104*		*80 - 120*

Lab Sample ID: 410-106360-3 MS
Matrix: Water
Analysis Batch: 322343

Client Sample ID: FBW001-MS_112022
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	ND		20.0	20.0		ug/L		100	67 - 126
1,1,2,2-Tetrachloroethane	ND		20.0	21.1		ug/L		105	72 - 120
1,1,2-Trichloroethane	ND		20.0	20.2		ug/L		101	80 - 120
1,1-Dichloroethane	ND		20.0	21.4		ug/L		107	80 - 120
1,1-Dichloroethene	ND		20.0	22.7		ug/L		113	80 - 131
1,2,4-Trichlorobenzene	ND	F1	20.0	23.9		ug/L		119	63 - 120

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

Lab Sample ID: 410-106360-3 MS **Client Sample ID: FBW001-MS_112022**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 322343

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trimethylbenzene	ND		20.0	23.8		ug/L		119	75 - 120
1,2-Dibromo-3-Chloropropane	ND		20.0	15.7		ug/L		78	47 - 131
1,2-Dibromoethane	ND		20.0	21.2		ug/L		106	77 - 120
1,2-Dichlorobenzene	ND		20.0	23.8		ug/L		119	80 - 120
1,2-Dichloroethane	ND		20.0	19.5		ug/L		97	73 - 124
1,2-Dichloropropane	ND		20.0	20.1		ug/L		101	80 - 120
1,3,5-Trimethylbenzene	ND		20.0	24.0		ug/L		120	75 - 120
1,3-Dichlorobenzene	ND		20.0	22.9		ug/L		115	80 - 120
1,4-Dichlorobenzene	ND		20.0	23.1		ug/L		116	80 - 120
2-Butanone	ND		250	205		ug/L		82	59 - 135
2-Hexanone	ND		250	237		ug/L		95	56 - 135
4-Methyl-2-pentanone	ND		250	221		ug/L		88	62 - 133
Acetone	ND	cn	250	304		ug/L		122	54 - 157
Benzene	ND		20.0	21.3		ug/L		106	80 - 120
Bromodichloromethane	ND		20.0	18.8		ug/L		94	71 - 120
Bromoform	ND		20.0	18.8		ug/L		94	51 - 120
Bromomethane	ND		20.0	19.8		ug/L		99	53 - 128
Carbon disulfide	ND		20.0	23.4		ug/L		117	65 - 128
Carbon tetrachloride	ND		20.0	20.3		ug/L		102	64 - 134
Chlorobenzene	ND		20.0	22.3		ug/L		112	80 - 120
Chloroethane	ND		20.0	20.3		ug/L		102	55 - 123
Chloroform	ND		20.0	20.6		ug/L		103	80 - 120
Chloromethane	ND		20.0	19.8		ug/L		99	56 - 121
cis-1,2-Dichloroethene	ND		20.0	22.0		ug/L		110	80 - 125
cis-1,3-Dichloropropene	ND		20.0	17.4		ug/L		87	75 - 120
Cyclohexane	ND		20.0	24.3		ug/L		122	68 - 126
Dibromochloromethane	ND		20.0	19.8		ug/L		99	71 - 120
Dichlorodifluoromethane	ND		20.0	15.5		ug/L		77	41 - 127
Ethylbenzene	ND		20.0	23.0		ug/L		115	80 - 120
Freon 113	ND		20.0	25.1		ug/L		126	73 - 139
Isopropylbenzene	ND	F1	20.0	24.6	F1	ug/L		123	80 - 120
Methyl acetate	ND	F2	20.0	17.6		ug/L		88	54 - 136
Methyl tertiary butyl ether	ND		20.0	20.1		ug/L		101	69 - 122
Methylcyclohexane	ND	F1	20.0	25.3	F1	ug/L		126	67 - 121
Methylene Chloride	ND		20.0	21.0		ug/L		105	80 - 120
Styrene	ND		20.0	22.4		ug/L		112	80 - 120
Tetrachloroethene	ND	F1	20.0	24.5	F1	ug/L		122	80 - 120
Toluene	ND		20.0	22.7		ug/L		114	80 - 120
trans-1,2-Dichloroethene	ND		20.0	22.2		ug/L		111	80 - 126
trans-1,3-Dichloropropene	ND		20.0	17.9		ug/L		89	67 - 120
Trichloroethene	ND		20.0	21.1		ug/L		105	80 - 120
Trichlorofluoromethane	ND		20.0	19.1		ug/L		95	55 - 135
Vinyl chloride	ND		20.0	19.6		ug/L		98	56 - 120
Xylenes, Total	ND		60.0	71.0		ug/L		118	80 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*

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

Lab Sample ID: 410-106360-3 MS **Client Sample ID: FBW001-MS_112022**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 322343

Surrogate	MS %Recovery	MS Qualifier	Limits
Dibromofluoromethane (Surr)	*101*		*80 - 120*
Toluene-d8 (Surr)	*104*		*80 - 120*

Lab Sample ID: 410-106360-3 MSD **Client Sample ID: FBW001-MSD_112022**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 322343

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		20.0	20.8		ug/L		104	67 - 126	4	30
1,1,2,2-Tetrachloroethane	ND		20.0	20.4		ug/L		102	72 - 120	3	30
1,1,2-Trichloroethane	ND		20.0	20.9		ug/L		104	80 - 120	3	30
1,1-Dichloroethane	ND		20.0	21.7		ug/L		109	80 - 120	2	30
1,1-Dichloroethene	ND		20.0	22.7		ug/L		113	80 - 131	0	30
1,2,4-Trichlorobenzene	ND	F1	20.0	24.4	F1	ug/L		122	63 - 120	2	30
1,2,4-Trimethylbenzene	ND		20.0	23.8		ug/L		119	75 - 120	0	30
1,2-Dibromo-3-Chloropropane	ND		20.0	16.1		ug/L		81	47 - 131	3	30
1,2-Dibromoethane	ND		20.0	21.7		ug/L		108	77 - 120	2	30
1,2-Dichlorobenzene	ND		20.0	23.6		ug/L		118	80 - 120	1	30
1,2-Dichloroethane	ND		20.0	19.6		ug/L		98	73 - 124	0	30
1,2-Dichloropropane	ND		20.0	20.4		ug/L		102	80 - 120	1	30
1,3,5-Trimethylbenzene	ND		20.0	23.9		ug/L		119	75 - 120	1	30
1,3-Dichlorobenzene	ND		20.0	23.5		ug/L		118	80 - 120	3	30
1,4-Dichlorobenzene	ND		20.0	23.1		ug/L		115	80 - 120	0	30
2-Butanone	ND		250	215		ug/L		86	59 - 135	5	30
2-Hexanone	ND		250	250		ug/L		100	56 - 135	5	30
4-Methyl-2-pentanone	ND		250	234		ug/L		94	62 - 133	6	30
Acetone	ND	cn	250	303		ug/L		121	54 - 157	0	30
Benzene	ND		20.0	22.0		ug/L		110	80 - 120	4	30
Bromodichloromethane	ND		20.0	19.3		ug/L		97	71 - 120	3	30
Bromoform	ND		20.0	18.7		ug/L		93	51 - 120	1	30
Bromomethane	ND		20.0	20.2		ug/L		101	53 - 128	2	30
Carbon disulfide	ND		20.0	24.1		ug/L		120	65 - 128	3	30
Carbon tetrachloride	ND		20.0	21.7		ug/L		108	64 - 134	6	30
Chlorobenzene	ND		20.0	22.7		ug/L		114	80 - 120	2	30
Chloroethane	ND		20.0	21.7		ug/L		108	55 - 123	6	30
Chloroform	ND		20.0	20.8		ug/L		104	80 - 120	1	30
Chloromethane	ND		20.0	20.4		ug/L		102	56 - 121	3	30
cis-1,2-Dichloroethene	ND		20.0	22.6		ug/L		113	80 - 125	3	30
cis-1,3-Dichloropropene	ND		20.0	18.5		ug/L		92	75 - 120	6	30
Cyclohexane	ND		20.0	25.3		ug/L		126	68 - 126	4	30
Dibromochloromethane	ND		20.0	19.9		ug/L		100	71 - 120	1	30
Dichlorodifluoromethane	ND		20.0	16.7		ug/L		83	41 - 127	8	30
Ethylbenzene	ND		20.0	24.0		ug/L		120	80 - 120	4	30
Freon 113	ND		20.0	25.7		ug/L		128	73 - 139	2	30
Isopropylbenzene	ND	F1	20.0	25.6	F1	ug/L		128	80 - 120	4	30
Methyl acetate	ND	F2	20.0	27.2	F2	ug/L		136	54 - 136	43	30
Methyl tertiary butyl ether	ND		20.0	20.8		ug/L		104	69 - 122	3	30
Methylcyclohexane	ND	F1	20.0	25.3	F1	ug/L		126	67 - 121	0	30

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

Lab Sample ID: 410-106360-3 MSD **Client Sample ID: FBW001-MSD_112022**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 322343

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methylene Chloride	ND		20.0	20.9		ug/L		104	80 - 120	0	30
Styrene	ND		20.0	22.6		ug/L		113	80 - 120	1	30
Tetrachloroethene	ND	F1	20.0	25.4	F1	ug/L		127	80 - 120	4	30
Toluene	ND		20.0	23.2		ug/L		116	80 - 120	2	30
trans-1,2-Dichloroethene	ND		20.0	22.1		ug/L		110	80 - 126	0	30
trans-1,3-Dichloropropene	ND		20.0	19.0		ug/L		95	67 - 120	6	30
Trichloroethene	ND		20.0	20.6		ug/L		103	80 - 120	2	30
Trichlorofluoromethane	ND		20.0	19.6		ug/L		98	55 - 135	3	30
Vinyl chloride	ND		20.0	20.3		ug/L		102	56 - 120	4	30
Xylenes, Total	ND		60.0	71.8		ug/L		120	80 - 120	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 120*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 120*
Toluene-d8 (Surr)	*104*		*80 - 120*

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

Lab Sample ID: MB 410-322343/7
Matrix: Water
Analysis Batch: 322343

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-Trichloroethane	ND		1.0	0.30	ug/L			11/30/22 21:13	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			11/30/22 21:13	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			11/30/22 21:13	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			11/30/22 21:13	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			11/30/22 21:13	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/L			11/30/22 21:13	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			11/30/22 21:13	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.30	ug/L			11/30/22 21:13	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			11/30/22 21:13	1
1,2-Dichlorobenzene	ND		5.0	0.20	ug/L			11/30/22 21:13	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			11/30/22 21:13	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			11/30/22 21:13	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			11/30/22 21:13	1
1,3-Dichlorobenzene	ND		5.0	0.68	ug/L			11/30/22 21:13	1
1,4-Dichlorobenzene	ND		5.0	0.30	ug/L			11/30/22 21:13	1
2-Butanone	ND		10	0.50	ug/L			11/30/22 21:13	1
2-Hexanone	ND		10	0.85	ug/L			11/30/22 21:13	1
4-Methyl-2-pentanone	ND		10	0.50	ug/L			11/30/22 21:13	1
Acetone	ND		20	0.70	ug/L			11/30/22 21:13	1
Benzene	ND		1.0	0.30	ug/L			11/30/22 21:13	1
Bromodichloromethane	ND		1.0	0.20	ug/L			11/30/22 21:13	1
Bromoform	ND		4.0	1.0	ug/L			11/30/22 21:13	1
Bromomethane	ND		1.0	0.30	ug/L			11/30/22 21:13	1
Carbon disulfide	ND		5.0	0.30	ug/L			11/30/22 21:13	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			11/30/22 21:13	1
Chlorobenzene	ND		1.0	0.30	ug/L			11/30/22 21:13	1
Chloroethane	ND		1.0	0.20	ug/L			11/30/22 21:13	1
Chloroform	ND		1.0	0.30	ug/L			11/30/22 21:13	1
Chloromethane	ND		2.0	0.55	ug/L			11/30/22 21:13	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			11/30/22 21:13	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			11/30/22 21:13	1
Cyclohexane	ND		5.0	1.0	ug/L			11/30/22 21:13	1
Dibromochloromethane	ND		1.0	0.20	ug/L			11/30/22 21:13	1
Dichlorodifluoromethane	ND		1.0	0.20	ug/L			11/30/22 21:13	1
Ethylbenzene	ND		1.0	0.40	ug/L			11/30/22 21:13	1
Freon 113	ND		10	0.30	ug/L			11/30/22 21:13	1
Isopropylbenzene	ND		5.0	0.20	ug/L			11/30/22 21:13	1
Methyl acetate	ND		5.0	0.30	ug/L			11/30/22 21:13	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			11/30/22 21:13	1
Methylcyclohexane	ND		5.0	0.50	ug/L			11/30/22 21:13	1
Methylene Chloride	ND		1.0	0.30	ug/L			11/30/22 21:13	1
Styrene	ND		5.0	0.30	ug/L			11/30/22 21:13	1
Tetrachloroethene	ND		1.0	0.30	ug/L			11/30/22 21:13	1
Toluene	ND		1.0	0.20	ug/L			11/30/22 21:13	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			11/30/22 21:13	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			11/30/22 21:13	1
Trichloroethene	ND		1.0	0.30	ug/L			11/30/22 21:13	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			11/30/22 21:13	1

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

Lab Sample ID: MB 410-322343/7
Matrix: Water
Analysis Batch: 322343

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		1.0	0.20	ug/L			11/30/22 21:13	1
Xylenes, Total	ND		1.0	0.40	ug/L			11/30/22 21:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*80 - 120*		*11/30/22 21:13*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*11/30/22 21:13*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*11/30/22 21:13*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*11/30/22 21:13*	*1*

Lab Sample ID: LCS 410-322343/4
Matrix: Water
Analysis Batch: 322343

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-Trichloroethane	20.0	18.6		ug/L		93	67 - 126
1,1,2,2-Tetrachloroethane	20.0	20.3		ug/L		102	72 - 120
1,1,2-Trichloroethane	20.0	20.2		ug/L		101	80 - 120
1,1-Dichloroethane	20.0	19.4		ug/L		97	80 - 120
1,1-Dichloroethene	20.0	19.8		ug/L		99	80 - 131
1,2,4-Trichlorobenzene	20.0	22.0		ug/L		110	63 - 120
1,2,4-Trimethylbenzene	20.0	22.1		ug/L		111	75 - 120
1,2-Dibromo-3-Chloropropane	20.0	16.5		ug/L		82	47 - 131
1,2-Dibromoethane	20.0	20.9		ug/L		104	77 - 120
1,2-Dichlorobenzene	20.0	22.0		ug/L		110	80 - 120
1,2-Dichloroethane	20.0	18.6		ug/L		93	73 - 124
1,2-Dichloropropane	20.0	19.1		ug/L		95	80 - 120
1,3,5-Trimethylbenzene	20.0	21.9		ug/L		109	75 - 120
1,3-Dichlorobenzene	20.0	22.0		ug/L		110	80 - 120
1,4-Dichlorobenzene	20.0	21.7		ug/L		109	80 - 120
2-Butanone	250	212		ug/L		85	59 - 135
2-Hexanone	250	245		ug/L		98	56 - 135
4-Methyl-2-pentanone	250	226		ug/L		90	62 - 133
Acetone	250	287		ug/L		115	54 - 157
Benzene	20.0	19.9		ug/L		99	80 - 120
Bromodichloromethane	20.0	17.7		ug/L		89	71 - 120
Bromoform	20.0	18.4		ug/L		92	51 - 120
Bromomethane	20.0	18.6		ug/L		93	53 - 128
Carbon disulfide	20.0	21.2		ug/L		106	65 - 128
Carbon tetrachloride	20.0	18.3		ug/L		91	64 - 134
Chlorobenzene	20.0	21.0		ug/L		105	80 - 120
Chloroethane	20.0	18.6		ug/L		93	55 - 123
Chloroform	20.0	19.2		ug/L		96	80 - 120
Chloromethane	20.0	18.7		ug/L		94	56 - 121
cis-1,2-Dichloroethene	20.0	20.5		ug/L		103	80 - 125
cis-1,3-Dichloropropene	20.0	17.3		ug/L		87	75 - 120
Cyclohexane	20.0	19.9		ug/L		99	68 - 126
Dibromochloromethane	20.0	18.7		ug/L		93	71 - 120
Dichlorodifluoromethane	20.0	13.9		ug/L		70	41 - 127

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

Lab Sample ID: LCS 410-322343/4
Matrix: Water
Analysis Batch: 322343

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	20.0	21.5		ug/L		108	80 - 120
Freon 113	20.0	21.0		ug/L		105	73 - 139
Isopropylbenzene	20.0	22.7		ug/L		113	80 - 120
Methyl acetate	20.0	18.9		ug/L		95	54 - 136
Methyl tertiary butyl ether	20.0	19.8		ug/L		99	69 - 122
Methylcyclohexane	20.0	20.6		ug/L		103	67 - 121
Methylene Chloride	20.0	19.0		ug/L		95	80 - 120
Styrene	20.0	20.9		ug/L		105	80 - 120
Tetrachloroethene	20.0	22.1		ug/L		110	80 - 120
Toluene	20.0	21.4		ug/L		107	80 - 120
trans-1,2-Dichloroethene	20.0	18.8		ug/L		94	80 - 126
trans-1,3-Dichloropropene	20.0	17.7		ug/L		89	67 - 120
Trichloroethene	20.0	18.9		ug/L		94	80 - 120
Trichlorofluoromethane	20.0	16.6		ug/L		83	55 - 135
Vinyl chloride	20.0	17.9		ug/L		90	56 - 120
Xylenes, Total	60.0	65.2		ug/L		109	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*80 - 120*
Toluene-d8 (Surr)	*104*		*80 - 120*

Lab Sample ID: LCSD 410-322343/5
Matrix: Water
Analysis Batch: 322343

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-Trichloroethane	20.0	18.8		ug/L		94	67 - 126	1	30
1,1,2,2-Tetrachloroethane	20.0	20.5		ug/L		103	72 - 120	1	30
1,1,2-Trichloroethane	20.0	19.4		ug/L		97	80 - 120	4	30
1,1-Dichloroethane	20.0	19.6		ug/L		98	80 - 120	1	30
1,1-Dichloroethene	20.0	19.1		ug/L		95	80 - 131	4	30
1,2,4-Trichlorobenzene	20.0	22.4		ug/L		112	63 - 120	2	30
1,2,4-Trimethylbenzene	20.0	22.0		ug/L		110	75 - 120	0	30
1,2-Dibromo-3-Chloropropane	20.0	16.6		ug/L		83	47 - 131	0	30
1,2-Dibromoethane	20.0	20.9		ug/L		105	77 - 120	0	30
1,2-Dichlorobenzene	20.0	22.2		ug/L		111	80 - 120	1	30
1,2-Dichloroethane	20.0	18.6		ug/L		93	73 - 124	0	30
1,2-Dichloropropane	20.0	19.5		ug/L		98	80 - 120	2	30
1,3,5-Trimethylbenzene	20.0	21.6		ug/L		108	75 - 120	1	30
1,3-Dichlorobenzene	20.0	21.7		ug/L		109	80 - 120	1	30
1,4-Dichlorobenzene	20.0	21.7		ug/L		108	80 - 120	0	30
2-Butanone	250	219		ug/L		87	59 - 135	3	30
2-Hexanone	250	242		ug/L		97	56 - 135	1	30
4-Methyl-2-pentanone	250	230		ug/L		92	62 - 133	2	30
Acetone	250	275		ug/L		110	54 - 157	4	30
Benzene	20.0	20.0		ug/L		100	80 - 120	1	30

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

Lab Sample ID: LCSD 410-322343/5
Matrix: Water
Analysis Batch: 322343

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
Bromodichloromethane			20.0	18.0		ug/L		90	71 - 120	2	30
Bromoform			20.0	17.8		ug/L		89	51 - 120	3	30
Bromomethane			20.0	18.6		ug/L		93	53 - 128	0	30
Carbon disulfide			20.0	20.8		ug/L		104	65 - 128	2	30
Carbon tetrachloride			20.0	18.1		ug/L		91	64 - 134	1	30
Chlorobenzene			20.0	21.0		ug/L		105	80 - 120	0	30
Chloroethane			20.0	18.7		ug/L		94	55 - 123	1	30
Chloroform			20.0	19.2		ug/L		96	80 - 120	0	30
Chloromethane			20.0	19.0		ug/L		95	56 - 121	1	30
cis-1,2-Dichloroethene			20.0	20.6		ug/L		103	80 - 125	0	30
cis-1,3-Dichloropropene			20.0	17.2		ug/L		86	75 - 120	1	30
Cyclohexane			20.0	20.3		ug/L		101	68 - 126	2	30
Dibromochloromethane			20.0	18.6		ug/L		93	71 - 120	1	30
Dichlorodifluoromethane			20.0	14.0		ug/L		70	41 - 127	0	30
Ethylbenzene			20.0	21.7		ug/L		108	80 - 120	1	30
Freon 113			20.0	20.9		ug/L		104	73 - 139	1	30
Isopropylbenzene			20.0	22.3		ug/L		111	80 - 120	2	30
Methyl acetate			20.0	23.2		ug/L		116	54 - 136	20	30
Methyl tertiary butyl ether			20.0	20.1		ug/L		101	69 - 122	2	30
Methylcyclohexane			20.0	21.1		ug/L		105	67 - 121	2	30
Methylene Chloride			20.0	19.3		ug/L		96	80 - 120	1	30
Styrene			20.0	20.7		ug/L		103	80 - 120	1	30
Tetrachloroethene			20.0	22.1		ug/L		111	80 - 120	0	30
Toluene			20.0	20.5		ug/L		103	80 - 120	4	30
trans-1,2-Dichloroethene			20.0	19.8		ug/L		99	80 - 126	5	30
trans-1,3-Dichloropropene			20.0	18.0		ug/L		90	67 - 120	2	30
Trichloroethene			20.0	19.6		ug/L		98	80 - 120	4	30
Trichlorofluoromethane			20.0	16.6		ug/L		83	55 - 135	0	30
Vinyl chloride			20.0	17.8		ug/L		89	56 - 120	1	30
Xylenes, Total			60.0	64.5		ug/L		108	80 - 120	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 120*
Toluene-d8 (Surr)	*104*		*80 - 120*

Lab Sample ID: 410-106360-3 MS
Matrix: Water
Analysis Batch: 322343

Client Sample ID: FBW001-MS_112022
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1,1-Trichloroethane	ND		20.0	20.0		ug/L		100	67 - 126		
1,1,2,2-Tetrachloroethane	ND		20.0	21.1		ug/L		105	72 - 120		
1,1,2-Trichloroethane	ND		20.0	20.2		ug/L		101	80 - 120		
1,1-Dichloroethane	ND		20.0	21.4		ug/L		107	80 - 120		
1,1-Dichloroethene	ND		20.0	22.7		ug/L		113	80 - 131		
1,2,4-Trichlorobenzene	ND	F1	20.0	23.9		ug/L		119	63 - 120		

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

Lab Sample ID: 410-106360-3 MS **Client Sample ID: FBW001-MS_112022**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 322343

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trimethylbenzene	ND		20.0	23.8		ug/L		119	75 - 120
1,2-Dibromo-3-Chloropropane	ND		20.0	15.7		ug/L		78	47 - 131
1,2-Dibromoethane	ND		20.0	21.2		ug/L		106	77 - 120
1,2-Dichlorobenzene	ND		20.0	23.8		ug/L		119	80 - 120
1,2-Dichloroethane	ND		20.0	19.5		ug/L		97	73 - 124
1,2-Dichloropropane	ND		20.0	20.1		ug/L		101	80 - 120
1,3,5-Trimethylbenzene	ND		20.0	24.0		ug/L		120	75 - 120
1,3-Dichlorobenzene	ND		20.0	22.9		ug/L		115	80 - 120
1,4-Dichlorobenzene	ND		20.0	23.1		ug/L		116	80 - 120
2-Butanone	ND		250	205		ug/L		82	59 - 135
2-Hexanone	ND		250	237		ug/L		95	56 - 135
4-Methyl-2-pentanone	ND		250	221		ug/L		88	62 - 133
Acetone	ND	cn	250	304		ug/L		122	54 - 157
Benzene	ND		20.0	21.3		ug/L		106	80 - 120
Bromodichloromethane	ND		20.0	18.8		ug/L		94	71 - 120
Bromoform	ND		20.0	18.8		ug/L		94	51 - 120
Bromomethane	ND		20.0	19.8		ug/L		99	53 - 128
Carbon disulfide	ND		20.0	23.4		ug/L		117	65 - 128
Carbon tetrachloride	ND		20.0	20.3		ug/L		102	64 - 134
Chlorobenzene	ND		20.0	22.3		ug/L		112	80 - 120
Chloroethane	ND		20.0	20.3		ug/L		102	55 - 123
Chloroform	ND		20.0	20.6		ug/L		103	80 - 120
Chloromethane	ND		20.0	19.8		ug/L		99	56 - 121
cis-1,2-Dichloroethene	ND		20.0	22.0		ug/L		110	80 - 125
cis-1,3-Dichloropropene	ND		20.0	17.4		ug/L		87	75 - 120
Cyclohexane	ND		20.0	24.3		ug/L		122	68 - 126
Dibromochloromethane	ND		20.0	19.8		ug/L		99	71 - 120
Dichlorodifluoromethane	ND		20.0	15.5		ug/L		77	41 - 127
Ethylbenzene	ND		20.0	23.0		ug/L		115	80 - 120
Freon 113	ND		20.0	25.1		ug/L		126	73 - 139
Isopropylbenzene	ND	F1	20.0	24.6	F1	ug/L		123	80 - 120
Methyl acetate	ND	F2	20.0	17.6		ug/L		88	54 - 136
Methyl tertiary butyl ether	ND		20.0	20.1		ug/L		101	69 - 122
Methylcyclohexane	ND	F1	20.0	25.3	F1	ug/L		126	67 - 121
Methylene Chloride	ND		20.0	21.0		ug/L		105	80 - 120
Styrene	ND		20.0	22.4		ug/L		112	80 - 120
Tetrachloroethene	ND	F1	20.0	24.5	F1	ug/L		122	80 - 120
Toluene	ND		20.0	22.7		ug/L		114	80 - 120
trans-1,2-Dichloroethene	ND		20.0	22.2		ug/L		111	80 - 126
trans-1,3-Dichloropropene	ND		20.0	17.9		ug/L		89	67 - 120
Trichloroethene	ND		20.0	21.1		ug/L		105	80 - 120
Trichlorofluoromethane	ND		20.0	19.1		ug/L		95	55 - 135
Vinyl chloride	ND		20.0	19.6		ug/L		98	56 - 120
Xylenes, Total	ND		60.0	71.0		ug/L		118	80 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*

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

Lab Sample ID: 410-106360-3 MS
Matrix: Water
Analysis Batch: 322343

Client Sample ID: FBW001-MS_112022
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
Dibromofluoromethane (Surr)	*101*		*80 - 120*
Toluene-d8 (Surr)	*104*		*80 - 120*

Lab Sample ID: 410-106360-3 MSD
Matrix: Water
Analysis Batch: 322343

Client Sample ID: FBW001-MSD_112022
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		20.0	20.8		ug/L		104	67 - 126	4	30
1,1,2,2-Tetrachloroethane	ND		20.0	20.4		ug/L		102	72 - 120	3	30
1,1,2-Trichloroethane	ND		20.0	20.9		ug/L		104	80 - 120	3	30
1,1-Dichloroethane	ND		20.0	21.7		ug/L		109	80 - 120	2	30
1,1-Dichloroethene	ND		20.0	22.7		ug/L		113	80 - 131	0	30
1,2,4-Trichlorobenzene	ND	F1	20.0	24.4	F1	ug/L		122	63 - 120	2	30
1,2,4-Trimethylbenzene	ND		20.0	23.8		ug/L		119	75 - 120	0	30
1,2-Dibromo-3-Chloropropane	ND		20.0	16.1		ug/L		81	47 - 131	3	30
1,2-Dibromoethane	ND		20.0	21.7		ug/L		108	77 - 120	2	30
1,2-Dichlorobenzene	ND		20.0	23.6		ug/L		118	80 - 120	1	30
1,2-Dichloroethane	ND		20.0	19.6		ug/L		98	73 - 124	0	30
1,2-Dichloropropane	ND		20.0	20.4		ug/L		102	80 - 120	1	30
1,3,5-Trimethylbenzene	ND		20.0	23.9		ug/L		119	75 - 120	1	30
1,3-Dichlorobenzene	ND		20.0	23.5		ug/L		118	80 - 120	3	30
1,4-Dichlorobenzene	ND		20.0	23.1		ug/L		115	80 - 120	0	30
2-Butanone	ND		250	215		ug/L		86	59 - 135	5	30
2-Hexanone	ND		250	250		ug/L		100	56 - 135	5	30
4-Methyl-2-pentanone	ND		250	234		ug/L		94	62 - 133	6	30
Acetone	ND	cn	250	303		ug/L		121	54 - 157	0	30
Benzene	ND		20.0	22.0		ug/L		110	80 - 120	4	30
Bromodichloromethane	ND		20.0	19.3		ug/L		97	71 - 120	3	30
Bromoform	ND		20.0	18.7		ug/L		93	51 - 120	1	30
Bromomethane	ND		20.0	20.2		ug/L		101	53 - 128	2	30
Carbon disulfide	ND		20.0	24.1		ug/L		120	65 - 128	3	30
Carbon tetrachloride	ND		20.0	21.7		ug/L		108	64 - 134	6	30
Chlorobenzene	ND		20.0	22.7		ug/L		114	80 - 120	2	30
Chloroethane	ND		20.0	21.7		ug/L		108	55 - 123	6	30
Chloroform	ND		20.0	20.8		ug/L		104	80 - 120	1	30
Chloromethane	ND		20.0	20.4		ug/L		102	56 - 121	3	30
cis-1,2-Dichloroethene	ND		20.0	22.6		ug/L		113	80 - 125	3	30
cis-1,3-Dichloropropene	ND		20.0	18.5		ug/L		92	75 - 120	6	30
Cyclohexane	ND		20.0	25.3		ug/L		126	68 - 126	4	30
Dibromochloromethane	ND		20.0	19.9		ug/L		100	71 - 120	1	30
Dichlorodifluoromethane	ND		20.0	16.7		ug/L		83	41 - 127	8	30
Ethylbenzene	ND		20.0	24.0		ug/L		120	80 - 120	4	30
Freon 113	ND		20.0	25.7		ug/L		128	73 - 139	2	30
Isopropylbenzene	ND	F1	20.0	25.6	F1	ug/L		128	80 - 120	4	30
Methyl acetate	ND	F2	20.0	27.2	F2	ug/L		136	54 - 136	43	30
Methyl tertiary butyl ether	ND		20.0	20.8		ug/L		104	69 - 122	3	30
Methylcyclohexane	ND	F1	20.0	25.3	F1	ug/L		126	67 - 121	0	30

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

Lab Sample ID: 410-106360-3 MSD **Client Sample ID: FBW001-MSD_112022**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 322343

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methylene Chloride	ND		20.0	20.9		ug/L		104	80 - 120	0	30
Styrene	ND		20.0	22.6		ug/L		113	80 - 120	1	30
Tetrachloroethene	ND	F1	20.0	25.4	F1	ug/L		127	80 - 120	4	30
Toluene	ND		20.0	23.2		ug/L		116	80 - 120	2	30
trans-1,2-Dichloroethene	ND		20.0	22.1		ug/L		110	80 - 126	0	30
trans-1,3-Dichloropropene	ND		20.0	19.0		ug/L		95	67 - 120	6	30
Trichloroethene	ND		20.0	20.6		ug/L		103	80 - 120	2	30
Trichlorofluoromethane	ND		20.0	19.6		ug/L		98	55 - 135	3	30
Vinyl chloride	ND		20.0	20.3		ug/L		102	56 - 120	4	30
Xylenes, Total	ND		60.0	71.8		ug/L		120	80 - 120	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 120*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 120*
Toluene-d8 (Surr)	*104*		*80 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-320749/1-A **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 320818 **Prep Batch: 320749**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dimethylphenol	ND		10	3	ug/L		11/23/22 17:30	11/24/22 19:33	1
2,4-Dinitrophenol	ND		30	10	ug/L		11/23/22 17:30	11/24/22 19:33	1
2-Chlorophenol	ND		2	0.5	ug/L		11/23/22 17:30	11/24/22 19:33	1
Carbazole	ND		2	0.5	ug/L		11/23/22 17:30	11/24/22 19:33	1
Phenol	ND		2	0.5	ug/L		11/23/22 17:30	11/24/22 19:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*90*		*10 - 150*	*11/23/22 17:30*	*11/24/22 19:33*	*1*
2-Fluorobiphenyl (Surr)	*76*		*44 - 120*	*11/23/22 17:30*	*11/24/22 19:33*	*1*
2-Fluorophenol (Surr)	*53*		*10 - 120*	*11/23/22 17:30*	*11/24/22 19:33*	*1*
Nitrobenzene-d5 (Surr)	*82*		*25 - 125*	*11/23/22 17:30*	*11/24/22 19:33*	*1*
Phenol-d5 (Surr)	*35*		*10 - 120*	*11/23/22 17:30*	*11/24/22 19:33*	*1*
p-Terphenyl-d14 (Surr)	*99*		*37 - 120*	*11/23/22 17:30*	*11/24/22 19:33*	*1*

Lab Sample ID: LCS 410-320749/2-A **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 320818 **Prep Batch: 320749**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dimethylphenol	50.0	55		ug/L		109	62 - 120
2,4-Dinitrophenol	100	100		ug/L		103	43 - 146
2-Chlorophenol	50.0	50		ug/L		99	57 - 120
Carbazole	50.0	56		ug/L		112	74 - 120
Phenol	50.0	28		ug/L		56	22 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-320749/2-A
Matrix: Water
Analysis Batch: 320818

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 320749

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	102		10 - 150
2-Fluorobiphenyl (Surr)	90		44 - 120
2-Fluorophenol (Surr)	62		10 - 120
Nitrobenzene-d5 (Surr)	91		25 - 125
Phenol-d5 (Surr)	45		10 - 120
p-Terphenyl-d14 (Surr)	107		37 - 120

Lab Sample ID: LCSD 410-320749/3-A
Matrix: Water
Analysis Batch: 320818

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 320749

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4-Dimethylphenol			50.0	55		ug/L		109	62 - 120	0	30
2,4-Dinitrophenol			100	100		ug/L		101	43 - 146	2	30
2-Chlorophenol			50.0	53		ug/L		107	57 - 120	7	30
Carbazole			50.0	57		ug/L		114	74 - 120	1	30
Phenol			50.0	28		ug/L		57	22 - 120	1	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	101		10 - 150
2-Fluorobiphenyl (Surr)	86		44 - 120
2-Fluorophenol (Surr)	65		10 - 120
Nitrobenzene-d5 (Surr)	92		25 - 125
Phenol-d5 (Surr)	46		10 - 120
p-Terphenyl-d14 (Surr)	107		37 - 120

Lab Sample ID: 410-106360-3 MS
Matrix: Water
Analysis Batch: 320818

Client Sample ID: FBW001-MS_112022
Prep Type: Total/NA
Prep Batch: 320749

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
2,4-Dimethylphenol	ND		52.7	57		ug/L		108	62 - 120		
2,4-Dinitrophenol	ND		105	92		ug/L		88	43 - 146		
2-Chlorophenol	ND		52.7	52		ug/L		99	57 - 120		
Carbazole	ND		52.7	62		ug/L		117	74 - 120		
Phenol	ND		52.7	30		ug/L		56	22 - 120		

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	103		10 - 150
2-Fluorobiphenyl (Surr)	89		44 - 120
2-Fluorophenol (Surr)	63		10 - 120
Nitrobenzene-d5 (Surr)	89		25 - 125
Phenol-d5 (Surr)	45		10 - 120
p-Terphenyl-d14 (Surr)	106		37 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-106360-3 MSD **Client Sample ID: FBW001-MSD_112022**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 320818 **Prep Batch: 320749**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4-Dimethylphenol	ND		51.4	57		ug/L		111	62 - 120	1	30
2,4-Dinitrophenol	ND		103	100		ug/L		100	43 - 146	11	30
2-Chlorophenol	ND		51.4	51		ug/L		100	57 - 120	2	30
Carbazole	ND		51.4	61		ug/L		118	74 - 120	2	30
Phenol	ND		51.4	28		ug/L		55	22 - 120	5	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*103*		*10 - 150*
2-Fluorobiphenyl (Surr)	*90*		*44 - 120*
2-Fluorophenol (Surr)	*61*		*10 - 120*
Nitrobenzene-d5 (Surr)	*92*		*25 - 125*
Phenol-d5 (Surr)	*44*		*10 - 120*
p-Terphenyl-d14 (Surr)	*108*		*37 - 120*

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 410-320750/1-A **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 321961 **Prep Batch: 320750**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.30	0.10	ug/L		11/23/22 17:30	11/30/22 06:03	1
1-Methylnaphthalene	ND		0.050	0.020	ug/L		11/23/22 17:30	11/30/22 06:03	1
2-Methylnaphthalene	ND		0.050	0.020	ug/L		11/23/22 17:30	11/30/22 06:03	1
Acenaphthene	ND		0.050	0.010	ug/L		11/23/22 17:30	11/30/22 06:03	1
Acenaphthylene	ND		0.050	0.010	ug/L		11/23/22 17:30	11/30/22 06:03	1
Anthracene	ND		0.050	0.010	ug/L		11/23/22 17:30	11/30/22 06:03	1
Benzo[a]anthracene	ND		0.050	0.010	ug/L		11/23/22 17:30	11/30/22 06:03	1
Benzo[a]pyrene	ND		0.050	0.010	ug/L		11/23/22 17:30	11/30/22 06:03	1
Benzo[b]fluoranthene	ND		0.050	0.010	ug/L		11/23/22 17:30	11/30/22 06:03	1
Benzo[g,h,i]perylene	ND		0.050	0.010	ug/L		11/23/22 17:30	11/30/22 06:03	1
Benzo[k]fluoranthene	ND		0.050	0.010	ug/L		11/23/22 17:30	11/30/22 06:03	1
Bis(2-chloroethyl)ether	ND		0.050	0.020	ug/L		11/23/22 17:30	11/30/22 06:03	1
Bis(2-ethylhexyl) phthalate	0.0618	J	1.0	0.050	ug/L		11/23/22 17:30	11/30/22 06:03	1
Butylbenzylphthalate	ND		1.0	0.050	ug/L		11/23/22 17:30	11/30/22 06:03	1
Chrysene	ND		0.050	0.010	ug/L		11/23/22 17:30	11/30/22 06:03	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		11/23/22 17:30	11/30/22 06:03	1
Dibenzofuran	ND		0.050	0.010	ug/L		11/23/22 17:30	11/30/22 06:03	1
Diethylphthalate	ND		1.0	0.050	ug/L		11/23/22 17:30	11/30/22 06:03	1
Dimethylphthalate	ND		1.0	0.050	ug/L		11/23/22 17:30	11/30/22 06:03	1
Di-n-butyl phthalate	0.188	J	1.0	0.050	ug/L		11/23/22 17:30	11/30/22 06:03	1
Di-n-octyl phthalate	ND		1.0	0.050	ug/L		11/23/22 17:30	11/30/22 06:03	1
Fluoranthene	ND		0.050	0.010	ug/L		11/23/22 17:30	11/30/22 06:03	1
Fluorene	ND		0.050	0.010	ug/L		11/23/22 17:30	11/30/22 06:03	1
Hexachlorobenzene	ND		0.050	0.020	ug/L		11/23/22 17:30	11/30/22 06:03	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.020	ug/L		11/23/22 17:30	11/30/22 06:03	1
Naphthalene	ND		0.070	0.030	ug/L		11/23/22 17:30	11/30/22 06:03	1
N-Nitrosodimethylamine	ND		0.050	0.020	ug/L		11/23/22 17:30	11/30/22 06:03	1

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: MB 410-320750/1-A
Matrix: Water
Analysis Batch: 321961

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 320750

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	ND		0.070	0.030	ug/L		11/23/22 17:30	11/30/22 06:03	1
Pyrene	ND		0.050	0.010	ug/L		11/23/22 17:30	11/30/22 06:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Methylnaphthalene-d10 (Surr)	*79*		*36 - 111*	*11/23/22 17:30*	*11/30/22 06:03*	*1*
Benzo(a)pyrene-d12 (Surr)	*84*		*10 - 110*	*11/23/22 17:30*	*11/30/22 06:03*	*1*
Fluoranthene-d10 (Surr)	*76*		*47 - 128*	*11/23/22 17:30*	*11/30/22 06:03*	*1*

Lab Sample ID: LCS 410-320750/2-A
Matrix: Water
Analysis Batch: 321961

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 320750

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	1.00	0.478		ug/L		48	23 - 120
1-Methylnaphthalene	1.00	0.766		ug/L		77	23 - 124
2-Methylnaphthalene	1.00	0.691		ug/L		69	20 - 133
Acenaphthene	1.00	0.811		ug/L		81	42 - 120
Acenaphthylene	1.00	0.784		ug/L		78	49 - 120
Anthracene	1.00	0.856		ug/L		86	54 - 121
Benzo[a]anthracene	1.00	0.897		ug/L		90	61 - 122
Benzo[a]pyrene	1.00	0.883		ug/L		88	60 - 120
Benzo[b]fluoranthene	1.00	0.893		ug/L		89	58 - 122
Benzo[g,h,i]perylene	1.00	0.904		ug/L		90	50 - 120
Benzo[k]fluoranthene	1.00	0.922		ug/L		92	57 - 128
Bis(2-chloroethyl)ether	1.00	0.961		ug/L		96	59 - 130
Bis(2-ethylhexyl) phthalate	1.00	1.36		ug/L		136	14 - 155
Butylbenzylphthalate	1.00	0.979	J	ug/L		98	10 - 120
Chrysene	1.00	0.916		ug/L		92	55 - 123
Dibenz(a,h)anthracene	1.00	0.810		ug/L		81	50 - 121
Dibenzofuran	1.00	0.783		ug/L		78	48 - 124
Diethylphthalate	1.00	0.914	J	ug/L		91	38 - 120
Dimethylphthalate	1.00	0.900	J	ug/L		90	10 - 121
Di-n-butyl phthalate	1.00	2.33	*+	ug/L		233	46 - 125
Di-n-octyl phthalate	1.00	0.957	J	ug/L		96	22 - 130
Fluoranthene	1.00	0.808		ug/L		81	61 - 123
Fluorene	1.00	0.794		ug/L		79	55 - 120
Hexachlorobenzene	1.00	0.836		ug/L		84	20 - 120
Indeno[1,2,3-cd]pyrene	1.00	0.857		ug/L		86	47 - 143
Naphthalene	1.00	0.764		ug/L		76	20 - 120
N-Nitrosodimethylamine	1.00	0.760		ug/L		76	37 - 120
Phenanthrene	1.00	0.855		ug/L		86	59 - 120
Pyrene	1.00	0.884		ug/L		88	46 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Methylnaphthalene-d10 (Surr)	*73*		*36 - 111*
Benzo(a)pyrene-d12 (Surr)	*87*		*10 - 110*
Fluoranthene-d10 (Surr)	*74*		*47 - 128*

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCSD 410-320750/3-A
Matrix: Water
Analysis Batch: 321961

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 320750

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane			1.00	0.557		ug/L		56	23 - 120	15	30
1-Methylnaphthalene			1.00	0.795		ug/L		79	23 - 124	4	30
2-Methylnaphthalene			1.00	0.704		ug/L		70	20 - 133	2	30
Acenaphthene			1.00	0.806		ug/L		81	42 - 120	1	30
Acenaphthylene			1.00	0.783		ug/L		78	49 - 120	0	30
Anthracene			1.00	0.889		ug/L		89	54 - 121	4	30
Benzo[a]anthracene			1.00	0.919		ug/L		92	61 - 122	2	30
Benzo[a]pyrene			1.00	0.930		ug/L		93	60 - 120	5	30
Benzo[b]fluoranthene			1.00	0.946		ug/L		95	58 - 122	6	30
Benzo[g,h,i]perylene			1.00	0.918		ug/L		92	50 - 120	1	30
Benzo[k]fluoranthene			1.00	0.955		ug/L		96	57 - 128	4	30
Bis(2-chloroethyl)ether			1.00	0.956		ug/L		96	59 - 130	1	30
Bis(2-ethylhexyl) phthalate			1.00	1.19		ug/L		119	14 - 155	13	30
Butylbenzylphthalate			1.00	0.992	J	ug/L		99	10 - 120	1	30
Chrysene			1.00	0.983		ug/L		98	55 - 123	7	30
Dibenz(a,h)anthracene			1.00	0.817		ug/L		82	50 - 121	1	30
Dibenzofuran			1.00	0.791		ug/L		79	48 - 124	1	30
Diethylphthalate			1.00	0.903	J	ug/L		90	38 - 120	1	30
Dimethylphthalate			1.00	0.824	J	ug/L		82	10 - 121	9	30
Di-n-butyl phthalate			1.00	1.32	*+ *1	ug/L		132	46 - 125	55	30
Di-n-octyl phthalate			1.00	0.977	J	ug/L		98	22 - 130	2	30
Fluoranthene			1.00	0.826		ug/L		83	61 - 123	2	30
Fluorene			1.00	0.788		ug/L		79	55 - 120	1	30
Hexachlorobenzene			1.00	0.868		ug/L		87	20 - 120	4	30
Indeno[1,2,3-cd]pyrene			1.00	0.863		ug/L		86	47 - 143	1	30
Naphthalene			1.00	0.792		ug/L		79	20 - 120	4	30
N-Nitrosodimethylamine			1.00	0.787		ug/L		79	37 - 120	4	30
Phenanthrene			1.00	0.860		ug/L		86	59 - 120	1	30
Pyrene			1.00	0.958		ug/L		96	46 - 122	8	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Methylnaphthalene-d10 (Surr)	*74*		*36 - 111*
Benzo(a)pyrene-d12 (Surr)	*88*		*10 - 110*
Fluoranthene-d10 (Surr)	*75*		*47 - 128*

Lab Sample ID: 410-106360-3 MS
Matrix: Water
Analysis Batch: 321961

Client Sample ID: FBW001-MS_112022
Prep Type: Total/NA
Prep Batch: 320750

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
1,4-Dioxane	ND		1.04	0.487		ug/L		47	23 - 120		
1-Methylnaphthalene	ND		1.04	0.855		ug/L		82	23 - 124		
2-Methylnaphthalene	ND		1.04	0.746		ug/L		72	20 - 133		
Acenaphthene	ND		1.04	0.823		ug/L		79	42 - 120		
Acenaphthylene	ND		1.04	0.838		ug/L		81	49 - 120		
Anthracene	0.013	J	1.04	0.927		ug/L		88	54 - 121		
Benzo[a]anthracene	0.019	J	1.04	0.890		ug/L		84	61 - 122		
Benzo[a]pyrene	0.011	J	1.04	0.855		ug/L		81	60 - 120		

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 410-106360-3 MS **Client Sample ID: FBW001-MS_112022**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 321961 **Prep Batch: 320750**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzo[b]fluoranthene	0.015	J	1.04	0.876		ug/L		83	58 - 122
Benzo[g,h,i]perylene	0.014	J	1.04	0.759		ug/L		72	50 - 120
Benzo[k]fluoranthene	0.012	J	1.04	0.911		ug/L		86	57 - 128
Bis(2-chloroethyl)ether	ND		1.04	0.961		ug/L		92	59 - 130
Bis(2-ethylhexyl) phthalate	0.13	J B cn	1.04	1.11		ug/L		94	14 - 155
Butylbenzylphthalate	ND	cn	1.04	0.996	J	ug/L		96	10 - 120
Chrysene	0.017	J	1.04	0.883		ug/L		83	55 - 123
Dibenz(a,h)anthracene	ND		1.04	0.665		ug/L		64	50 - 121
Dibenzofuran	0.010	J	1.04	0.886		ug/L		84	48 - 124
Diethylphthalate	ND		1.04	1.08		ug/L		104	38 - 120
Dimethylphthalate	ND		1.04	0.949	J	ug/L		91	10 - 121
Di-n-butyl phthalate	0.60	J *+ F1 B *1 cn	1.04	1.73		ug/L		108	46 - 125
Di-n-octyl phthalate	ND		1.04	0.988	J	ug/L		95	22 - 130
Fluoranthene	0.018	J	1.04	0.875		ug/L		82	61 - 123
Fluorene	0.012	J	1.04	0.886		ug/L		84	55 - 120
Hexachlorobenzene	ND		1.04	0.914		ug/L		88	20 - 120
Indeno[1,2,3-cd]pyrene	ND		1.04	0.695		ug/L		67	47 - 143
Naphthalene	ND		1.04	0.851		ug/L		82	20 - 120
N-Nitrosodimethylamine	ND		1.04	0.709		ug/L		68	37 - 120
Phenanthrene	ND		1.04	0.920		ug/L		89	59 - 120
Pyrene	0.021	J	1.04	0.914		ug/L		86	46 - 122

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Methylnaphthalene-d10 (Surr)	*75*		*36 - 111*
Benzo(a)pyrene-d12 (Surr)	*78*		*10 - 110*
Fluoranthene-d10 (Surr)	*77*		*47 - 128*

Lab Sample ID: 410-106360-3 MSD **Client Sample ID: FBW001-MSD_112022**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 321961 **Prep Batch: 320750**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	ND		1.01	0.500		ug/L		49	23 - 120	3	30
1-Methylnaphthalene	ND		1.01	0.809		ug/L		80	23 - 124	5	30
2-Methylnaphthalene	ND		1.01	0.729		ug/L		72	20 - 133	2	30
Acenaphthene	ND		1.01	0.817		ug/L		80	42 - 120	1	30
Acenaphthylene	ND		1.01	0.811		ug/L		80	49 - 120	3	30
Anthracene	0.013	J	1.01	0.881		ug/L		85	54 - 121	5	30
Benzo[a]anthracene	0.019	J	1.01	0.891		ug/L		86	61 - 122	0	30
Benzo[a]pyrene	0.011	J	1.01	0.847		ug/L		82	60 - 120	1	30
Benzo[b]fluoranthene	0.015	J	1.01	0.817		ug/L		79	58 - 122	7	30
Benzo[g,h,i]perylene	0.014	J	1.01	0.753		ug/L		73	50 - 120	1	30
Benzo[k]fluoranthene	0.012	J	1.01	0.911		ug/L		89	57 - 128	0	30
Bis(2-chloroethyl)ether	ND		1.01	0.942		ug/L		93	59 - 130	2	30
Bis(2-ethylhexyl) phthalate	0.13	J B cn	1.01	1.12		ug/L		97	14 - 155	0	30
Butylbenzylphthalate	ND	cn	1.01	0.952	J	ug/L		94	10 - 120	5	30
Chrysene	0.017	J	1.01	0.926		ug/L		90	55 - 123	5	30
Dibenz(a,h)anthracene	ND		1.01	0.619		ug/L		61	50 - 121	7	30

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 410-106360-3 MSD **Client Sample ID: FBW001-MSD_112022**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 321961 **Prep Batch: 320750**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dibenzofuran	0.010	J	1.01	0.819		ug/L		80	48 - 124	8	30
Diethylphthalate	ND		1.01	0.959	J	ug/L		95	38 - 120	12	30
Dimethylphthalate	ND		1.01	0.912	J	ug/L		90	10 - 121	4	30
Di-n-butyl phthalate	0.60	J *+ F1 B *1 cn	1.01	1.91	F1	ug/L		129	46 - 125	10	30
Di-n-octyl phthalate	ND		1.01	0.858	J	ug/L		85	22 - 130	14	30
Fluoranthene	0.018	J	1.01	0.801		ug/L		77	61 - 123	9	30
Fluorene	0.012	J	1.01	0.819		ug/L		80	55 - 120	8	30
Hexachlorobenzene	ND		1.01	0.952		ug/L		94	20 - 120	4	30
Indeno[1,2,3-cd]pyrene	ND		1.01	0.676		ug/L		67	47 - 143	3	30
Naphthalene	ND		1.01	0.790		ug/L		78	20 - 120	7	30
N-Nitrosodimethylamine	ND		1.01	0.786		ug/L		77	37 - 120	10	30
Phenanthrene	ND		1.01	0.886		ug/L		87	59 - 120	4	30
Pyrene	0.021	J	1.01	0.941		ug/L		91	46 - 122	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Methylnaphthalene-d10 (Surr)	*75*		*36 - 111*
Benzo(a)pyrene-d12 (Surr)	*77*		*10 - 110*
Fluoranthene-d10 (Surr)	*73*		*47 - 128*

QC Association Summary

Client: Environmental Works, Inc.
Project/Site: Springfield, MO – OFIWP

Job ID: 410-106360-1

GC/MS VOA

Analysis Batch: 322343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-106360-1	FBS010_112022	Total/NA	Water	8260C	
410-106360-2	DUP-01_112022	Total/NA	Water	8260C	
410-106360-3	FBW001_112022	Total/NA	Water	8260C	
410-106360-4	FBW001_FB_112022	Total/NA	Water	8260C	
410-106360-5	Trip Blank	Total/NA	Water	8260C	
MB 410-322343/7	Method Blank	Total/NA	Water	8260C	
LCS 410-322343/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 410-322343/5	Lab Control Sample Dup	Total/NA	Water	8260C	
410-106360-3 MS	FBW001-MS_112022	Total/NA	Water	8260C	
410-106360-3 MSD	FBW001-MSD_112022	Total/NA	Water	8260C	

GC/MS VOA

Analysis Batch: 322343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-106360-1	FBS010_112022	Total/NA	Water	8260C	
410-106360-2	DUP-01_112022	Total/NA	Water	8260C	
410-106360-3	FBW001_112022	Total/NA	Water	8260C	
410-106360-4	FBW001_FB_112022	Total/NA	Water	8260C	
410-106360-5	Trip Blank	Total/NA	Water	8260C	
MB 410-322343/7	Method Blank	Total/NA	Water	8260C	
LCS 410-322343/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 410-322343/5	Lab Control Sample Dup	Total/NA	Water	8260C	
410-106360-3 MS	FBW001-MS_112022	Total/NA	Water	8260C	
410-106360-3 MSD	FBW001-MSD_112022	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 320749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-106360-1	FBS010_112022	Total/NA	Water	3510C	
410-106360-2	DUP-01_112022	Total/NA	Water	3510C	
410-106360-3	FBW001_112022	Total/NA	Water	3510C	
410-106360-4	FBW001_FB_112022	Total/NA	Water	3510C	
MB 410-320749/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-320749/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 410-320749/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
410-106360-3 MS	FBW001-MS_112022	Total/NA	Water	3510C	
410-106360-3 MSD	FBW001-MSD_112022	Total/NA	Water	3510C	

Prep Batch: 320750

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-106360-1 - RA	FBS010_112022	Total/NA	Water	3510C	
410-106360-1	FBS010_112022	Total/NA	Water	3510C	
410-106360-2 - RA	DUP-01_112022	Total/NA	Water	3510C	
410-106360-2	DUP-01_112022	Total/NA	Water	3510C	
410-106360-3 - RA	FBW001_112022	Total/NA	Water	3510C	
410-106360-3	FBW001_112022	Total/NA	Water	3510C	
410-106360-4 - RA	FBW001_FB_112022	Total/NA	Water	3510C	
410-106360-4	FBW001_FB_112022	Total/NA	Water	3510C	
MB 410-320750/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-320750/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 410-320750/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
410-106360-3 MS	FBW001-MS_112022	Total/NA	Water	3510C	
410-106360-3 MSD	FBW001-MSD_112022	Total/NA	Water	3510C	

Analysis Batch: 320818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-106360-1	FBS010_112022	Total/NA	Water	8270D	320749
410-106360-2	DUP-01_112022	Total/NA	Water	8270D	320749
410-106360-3	FBW001_112022	Total/NA	Water	8270D	320749
410-106360-4	FBW001_FB_112022	Total/NA	Water	8270D	320749
MB 410-320749/1-A	Method Blank	Total/NA	Water	8270D	320749
LCS 410-320749/2-A	Lab Control Sample	Total/NA	Water	8270D	320749
LCSD 410-320749/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	320749
410-106360-3 MS	FBW001-MS_112022	Total/NA	Water	8270D	320749

GC/MS Semi VOA (Continued)

Analysis Batch: 320818 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-106360-3 MSD	FBW001-MSD_112022	Total/NA	Water	8270D	320749

Analysis Batch: 321961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-106360-1	FBS010_112022	Total/NA	Water	8270D SIM	320750
410-106360-2	DUP-01_112022	Total/NA	Water	8270D SIM	320750
410-106360-3	FBW001_112022	Total/NA	Water	8270D SIM	320750
410-106360-4	FBW001_FB_112022	Total/NA	Water	8270D SIM	320750
MB 410-320750/1-A	Method Blank	Total/NA	Water	8270D SIM	320750
LCS 410-320750/2-A	Lab Control Sample	Total/NA	Water	8270D SIM	320750
LCSD 410-320750/3-A	Lab Control Sample Dup	Total/NA	Water	8270D SIM	320750
410-106360-3 MS	FBW001-MS_112022	Total/NA	Water	8270D SIM	320750
410-106360-3 MSD	FBW001-MSD_112022	Total/NA	Water	8270D SIM	320750

Analysis Batch: 322405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-106360-1 - RA	FBS010_112022	Total/NA	Water	8270D SIM	320750
410-106360-2 - RA	DUP-01_112022	Total/NA	Water	8270D SIM	320750
410-106360-3 - RA	FBW001_112022	Total/NA	Water	8270D SIM	320750
410-106360-4 - RA	FBW001_FB_112022	Total/NA	Water	8270D SIM	320750

Prep Batch: 323309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-106360-1 - RE	FBS010_112022	Total/NA	Water	3510C	
410-106360-2 - RE	DUP-01_112022	Total/NA	Water	3510C	
410-106360-3 - RE	FBW001_112022	Total/NA	Water	3510C	
410-106360-4 - RE	FBW001_FB_112022	Total/NA	Water	3510C	
MB 410-323309/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-323309/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 410-323309/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
410-106360-3 MS - RE	FBW001-MS_112022	Total/NA	Water	3510C	
410-106360-3 MSD - RE	FBW001-MSD_112022	Total/NA	Water	3510C	

Analysis Batch: 323522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-106360-1 - RE	FBS010_112022	Total/NA	Water	8270D SIM	323309
410-106360-2 - RE	DUP-01_112022	Total/NA	Water	8270D SIM	323309
410-106360-3 - RE	FBW001_112022	Total/NA	Water	8270D SIM	323309
410-106360-4 - RE	FBW001_FB_112022	Total/NA	Water	8270D SIM	323309
MB 410-323309/1-A	Method Blank	Total/NA	Water	8270D SIM	323309
LCS 410-323309/2-A	Lab Control Sample	Total/NA	Water	8270D SIM	323309
LCSD 410-323309/3-A	Lab Control Sample Dup	Total/NA	Water	8270D SIM	323309
410-106360-3 MS - RE	FBW001-MS_112022	Total/NA	Water	8270D SIM	323309
410-106360-3 MSD - RE	FBW001-MSD_112022	Total/NA	Water	8270D SIM	323309

Lab Chronicle

Client: Environmental Works, Inc.
Project/Site: Springfield, MO – OFIWP

Job ID: 410-106360-1

Client Sample ID: FBS010_112022
Lab Sample ID: 410-106360-1
Date Collected: 11/17/22 10:33
Matrix: Water
Date Received: 11/18/22 09:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	322343	K4WN	ELLE	12/01/22 00:10

Client Sample ID: DUP-01_112022
Lab Sample ID: 410-106360-2
Date Collected: 11/17/22 12:00
Matrix: Water
Date Received: 11/18/22 09:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	322343	K4WN	ELLE	12/01/22 00:30

Client Sample ID: FBW001_112022
Lab Sample ID: 410-106360-3
Date Collected: 11/17/22 10:20
Matrix: Water
Date Received: 11/18/22 09:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	322343	K4WN	ELLE	11/30/22 22:51

Client Sample ID: FBW001_FB_112022
Lab Sample ID: 410-106360-4
Date Collected: 11/17/22 10:14
Matrix: Water
Date Received: 11/18/22 09:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	322343	K4WN	ELLE	11/30/22 21:33

Client Sample ID: Trip Blank
Lab Sample ID: 410-106360-5
Date Collected: 11/17/22 00:00
Matrix: Water
Date Received: 11/18/22 09:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	322343	K4WN	ELLE	11/30/22 21:53

Laboratory References:

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

Client Sample ID: FBS010_112022 — Lab Sample ID: 410-106360-1

Date Collected: 11/17/22 10:33 **Matrix: Water**
Date Received: 11/18/22 09:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	322343	K4WN	ELLE	12/01/22 00:10
Total/NA	Prep	3510C			320749	QJZ6	ELLE	11/23/22 17:30
Total/NA	Analysis	8270D		1	320818	P7EB	ELLE	11/25/22 00:33
Total/NA	Prep	3510C	RA		320750	QJZ6	ELLE	11/23/22 17:30
Total/NA	Analysis	8270D SIM	RA	1	322405	UJM0	ELLE	12/01/22 07:26
Total/NA	Prep	3510C			320750	QJZ6	ELLE	11/23/22 17:30
Total/NA	Analysis	8270D SIM		1	321961	UJM0	ELLE	11/30/22 15:32
Total/NA	Prep	3510C	RE		323309	UKQ8	ELLE	12/03/22 03:22
Total/NA	Analysis	8270D SIM	RE	1	323522	SJ89	ELLE	12/05/22 10:27

Client Sample ID: DUP-01_112022 — Lab Sample ID: 410-106360-2

Date Collected: 11/17/22 12:00 **Matrix: Water**
Date Received: 11/18/22 09:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	322343	K4WN	ELLE	12/01/22 00:30
Total/NA	Prep	3510C			320749	QJZ6	ELLE	11/23/22 17:30
Total/NA	Analysis	8270D		1	320818	P7EB	ELLE	11/25/22 00:53
Total/NA	Prep	3510C	RA		320750	QJZ6	ELLE	11/23/22 17:30
Total/NA	Analysis	8270D SIM	RA	1	322405	UJM0	ELLE	12/01/22 07:47
Total/NA	Prep	3510C			320750	QJZ6	ELLE	11/23/22 17:30
Total/NA	Analysis	8270D SIM		1	321961	UJM0	ELLE	11/30/22 15:54
Total/NA	Prep	3510C	RE		323309	UKQ8	ELLE	12/03/22 03:22
Total/NA	Analysis	8270D SIM	RE	1	323522	SJ89	ELLE	12/05/22 10:49

Client Sample ID: FBW001_112022 — Lab Sample ID: 410-106360-3

Date Collected: 11/17/22 10:20 **Matrix: Water**
Date Received: 11/18/22 09:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	322343	K4WN	ELLE	11/30/22 22:51
Total/NA	Prep	3510C			320749	QJZ6	ELLE	11/23/22 17:30
Total/NA	Analysis	8270D		1	320818	P7EB	ELLE	11/24/22 22:13
Total/NA	Prep	3510C	RA		320750	QJZ6	ELLE	11/23/22 17:30
Total/NA	Analysis	8270D SIM	RA	1	322405	UJM0	ELLE	12/01/22 06:22
Total/NA	Prep	3510C			320750	QJZ6	ELLE	11/23/22 17:30
Total/NA	Analysis	8270D SIM		1	321961	UJM0	ELLE	11/30/22 09:38
Total/NA	Prep	3510C	RE		323309	UKQ8	ELLE	12/03/22 03:22
Total/NA	Analysis	8270D SIM	RE	1	323522	SJ89	ELLE	12/05/22 11:11

Lab Chronicle

Client: Environmental Works, Inc.
Project/Site: Springfield, MO – OFIWP

Job ID: 410-106360-1

Client Sample ID: FBW001_FB_112022

Lab Sample ID: 410-106360-4

Date Collected: 11/17/22 10:14

Matrix: Water

Date Received: 11/18/22 09:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	322343	K4WN	ELLE	11/30/22 21:33
Total/NA	Prep	3510C			320749	QJZ6	ELLE	11/23/22 17:30
Total/NA	Analysis	8270D		1	320818	P7EB	ELLE	11/25/22 01:13
Total/NA	Prep	3510C	RA		320750	QJZ6	ELLE	11/23/22 17:30
Total/NA	Analysis	8270D SIM	RA	1	322405	UJM0	ELLE	12/01/22 08:08
Total/NA	Prep	3510C			320750	QJZ6	ELLE	11/23/22 17:30
Total/NA	Analysis	8270D SIM		1	321961	UJM0	ELLE	11/30/22 16:15
Total/NA	Prep	3510C	RE		323309	UKQ8	ELLE	12/03/22 03:22
Total/NA	Analysis	8270D SIM	RE	1	323522	SJ89	ELLE	12/05/22 12:16

Client Sample ID: Trip Blank

Lab Sample ID: 410-106360-5

Date Collected: 11/17/22 00:00

Matrix: Water

Date Received: 11/18/22 09:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	322343	K4WN	ELLE	11/30/22 21:53

Laboratory References:

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

Accreditation/Certification Summary

Client: Environmental Works, Inc. Job ID: 410-106360-1
Project/Site: Springfield, MO – OFIWP

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Missouri	State	450	01-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260C		Water	1,1,1-Trichloroethane
8260C		Water	1,1,2,2-Tetrachloroethane
8260C		Water	1,1,2-Trichloroethane
8260C		Water	1,1-Dichloroethane
8260C		Water	1,1-Dichloroethene
8260C		Water	1,2,4-Trichlorobenzene
8260C		Water	1,2,4-Trimethylbenzene
8260C		Water	1,2-Dibromo-3-Chloropropane
8260C		Water	1,2-Dibromoethane
8260C		Water	1,2-Dichlorobenzene
8260C		Water	1,2-Dichloroethane
8260C		Water	1,2-Dichloropropane
8260C		Water	1,3,5-Trimethylbenzene
8260C		Water	1,3-Dichlorobenzene
8260C		Water	1,4-Dichlorobenzene
8260C		Water	2-Butanone
8260C		Water	2-Hexanone
8260C		Water	4-Methyl-2-pentanone
8260C		Water	Acetone
8260C		Water	Benzene
8260C		Water	Bromodichloromethane
8260C		Water	Bromoform
8260C		Water	Bromomethane
8260C		Water	Carbon disulfide
8260C		Water	Carbon tetrachloride
8260C		Water	Chlorobenzene
8260C		Water	Chloroethane
8260C		Water	Chloroform
8260C		Water	Chloromethane
8260C		Water	cis-1,2-Dichloroethene
8260C		Water	cis-1,3-Dichloropropene
8260C		Water	Cyclohexane
8260C		Water	Dibromochloromethane
8260C		Water	Dichlorodifluoromethane
8260C		Water	Ethylbenzene
8260C		Water	Freon 113
8260C		Water	Isopropylbenzene
8260C		Water	Methyl acetate
8260C		Water	Methyl tertiary butyl ether
8260C		Water	Methylcyclohexane
8260C		Water	Methylene Chloride
8260C		Water	Styrene
8260C		Water	Tetrachloroethene
8260C		Water	Toluene
8260C		Water	trans-1,2-Dichloroethene

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260C		Water	trans-1,3-Dichloropropene
8260C		Water	Trichloroethene
8260C		Water	Trichlorofluoromethane
8260C		Water	Vinyl chloride
8260C		Water	Xylenes, Total

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Missouri	State	450	01-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260C		Water	1,1,1-Trichloroethane
8260C		Water	1,1,2,2-Tetrachloroethane
8260C		Water	1,1,2-Trichloroethane
8260C		Water	1,1-Dichloroethane
8260C		Water	1,1-Dichloroethene
8260C		Water	1,2,4-Trichlorobenzene
8260C		Water	1,2,4-Trimethylbenzene
8260C		Water	1,2-Dibromo-3-Chloropropane
8260C		Water	1,2-Dibromoethane
8260C		Water	1,2-Dichlorobenzene
8260C		Water	1,2-Dichloroethane
8260C		Water	1,2-Dichloropropane
8260C		Water	1,3,5-Trimethylbenzene
8260C		Water	1,3-Dichlorobenzene
8260C		Water	1,4-Dichlorobenzene
8260C		Water	2-Butanone
8260C		Water	2-Hexanone
8260C		Water	4-Methyl-2-pentanone
8260C		Water	Acetone
8260C		Water	Benzene
8260C		Water	Bromodichloromethane
8260C		Water	Bromoform
8260C		Water	Bromomethane
8260C		Water	Carbon disulfide
8260C		Water	Carbon tetrachloride
8260C		Water	Chlorobenzene
8260C		Water	Chloroethane
8260C		Water	Chloroform
8260C		Water	Chloromethane
8260C		Water	cis-1,2-Dichloroethene
8260C		Water	cis-1,3-Dichloropropene
8260C		Water	Cyclohexane
8260C		Water	Dibromochloromethane
8260C		Water	Dichlorodifluoromethane
8260C		Water	Ethylbenzene
8260C		Water	Freon 113
8260C		Water	Isopropylbenzene
8260C		Water	Methyl acetate
8260C		Water	Methyl tertiary butyl ether
8260C		Water	Methylcyclohexane
8260C		Water	Methylene Chloride
8260C		Water	Styrene
8260C		Water	Tetrachloroethene
8260C		Water	Toluene
8260C		Water	trans-1,2-Dichloroethene

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260C		Water	trans-1,3-Dichloropropene
8260C		Water	Trichloroethene
8260C		Water	Trichlorofluoromethane
8260C		Water	Vinyl chloride
8260C		Water	Xylenes, Total
8270D	3510C	Water	2,4-Dimethylphenol
8270D	3510C	Water	2,4-Dinitrophenol
8270D	3510C	Water	2-Chlorophenol
8270D	3510C	Water	Carbazole
8270D	3510C	Water	Phenol
8270D SIM	3510C	Water	1,4-Dioxane
8270D SIM	3510C	Water	1-Methylnaphthalene
8270D SIM	3510C	Water	2-Methylnaphthalene
8270D SIM	3510C	Water	Acenaphthene
8270D SIM	3510C	Water	Acenaphthylene
8270D SIM	3510C	Water	Anthracene
8270D SIM	3510C	Water	Benzo[a]anthracene
8270D SIM	3510C	Water	Benzo[a]pyrene
8270D SIM	3510C	Water	Benzo[b]fluoranthene
8270D SIM	3510C	Water	Benzo[g,h,i]perylene
8270D SIM	3510C	Water	Benzo[k]fluoranthene
8270D SIM	3510C	Water	Bis(2-chloroethyl)ether
8270D SIM	3510C	Water	Bis(2-ethylhexyl) phthalate
8270D SIM	3510C	Water	Butylbenzylphthalate
8270D SIM	3510C	Water	Chrysene
8270D SIM	3510C	Water	Dibenz(a,h)anthracene
8270D SIM	3510C	Water	Dibenzofuran
8270D SIM	3510C	Water	Diethylphthalate
8270D SIM	3510C	Water	Dimethylphthalate
8270D SIM	3510C	Water	Di-n-butyl phthalate
8270D SIM	3510C	Water	Di-n-octyl phthalate
8270D SIM	3510C	Water	Fluoranthene
8270D SIM	3510C	Water	Fluorene
8270D SIM	3510C	Water	Hexachlorobenzene
8270D SIM	3510C	Water	Indeno[1,2,3-cd]pyrene
8270D SIM	3510C	Water	Naphthalene
8270D SIM	3510C	Water	N-Nitrosodimethylamine
8270D SIM	3510C	Water	Phenanthrene
8270D SIM	3510C	Water	Pyrene

Method Summary

Client: Environmental Works, Inc. Job ID: 410-106360-1
Project/Site: Springfield, MO – OFIWP

Method	Method Description	Protocol	Laboratory
8260C	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

Method Summary

Client: Environmental Works, Inc. Job ID: 410-106360-1
Project/Site: Springfield, MO – OFIWP

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	ELLE
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	ELLE
8270D SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	ELLE
3510C	Liquid-Liquid Extraction (Separatory Funnel)	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: Environmental Works, Inc.
Project/Site: Springfield, MO – OFIWP

Job ID: 410-106360-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-106360-1	FBS010_112022	Water	11/17/22 10:33	11/18/22 09:58
410-106360-2	DUP-01_112022	Water	11/17/22 12:00	11/18/22 09:58
410-106360-3	FBW001_112022	Water	11/17/22 10:20	11/18/22 09:58
410-106360-4	FBW001_FB_112022	Water	11/17/22 10:14	11/18/22 09:58
410-106360-5	Trip Blank	Water	11/17/22 00:00	11/18/22 09:58

Sample Summary

Client: Environmental Works, Inc.
Project/Site: Springfield, MO – OFIWP

Job ID: 410-106360-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-106360-1	FBS010_112022	Water	11/17/22 10:33	11/18/22 09:58
410-106360-2	DUP-01_112022	Water	11/17/22 12:00	11/18/22 09:58
410-106360-3	FBW001_112022	Water	11/17/22 10:20	11/18/22 09:58
410-106360-4	FBW001_FB_112022	Water	11/17/22 10:14	11/18/22 09:58
410-106360-5	Trip Blank	Water	11/17/22 00:00	11/18/22 09:58

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-106360-1

SDG No.:

Instrument ID: 9137 Analysis Batch Number: 311123

Lab Sample ID: IC 410-311123/5 Client Sample ID:

Date Analyzed: 10/27/22 13:49 Lab File ID: WC27X04.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
cis-1,4-Dichloro-2-butene	9.13	Peak assignment corrected	K4WN	10/29/22 00:21

Lab Sample ID: IC 410-311123/6 Client Sample ID:

Date Analyzed: 10/27/22 14:08 Lab File ID: WC27X05.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
cis-1,4-Dichloro-2-butene	9.12	Peak assignment corrected	K4WN	10/29/22 00:21

Lab Sample ID: IC 410-311123/7 Client Sample ID:

Date Analyzed: 10/27/22 14:28 Lab File ID: WC27X06.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	2.64	Incomplete Integration	K4WN	10/29/22 00:21
Vinyl acetate	3.44	Incomplete Integration	K4WN	10/29/22 00:22
cis-1,4-Dichloro-2-butene	9.12	Incomplete Integration	K4WN	10/29/22 00:22

Lab Sample ID: IC 410-311123/8 Client Sample ID:

Date Analyzed: 10/27/22 14:47 Lab File ID: WC27X07.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chlorodifluoromethane	1.33	Incomplete Integration	K4WN	10/29/22 00:22
Vinyl acetate	3.46	Incomplete Integration	K4WN	10/29/22 00:23
Ethyl acetate	4.04	Incomplete Integration	K4WN	10/29/22 00:23
Butyl acetate	7.67	Incomplete Integration	K4WN	10/29/22 00:23
2,3,4-Trichlorobutene	9.59	Incomplete Integration	K4WN	10/29/22 00:23

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-106360-1

SDG No.:

Instrument ID: 9137 Analysis Batch Number: 311123

Lab Sample ID: IC 410-311123/11 Client Sample ID:

Date Analyzed: 10/27/22 15:47 Lab File ID: WC27X10.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.32	Incomplete Integration	K4WN	10/29/22 00:34
Ethanol	2.20	Incomplete Integration	K4WN	10/29/22 00:34

Lab Sample ID: IC 410-311123/12 Client Sample ID:

Date Analyzed: 10/27/22 16:07 Lab File ID: WC27X11.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.31	Incomplete Integration	K4WN	10/29/22 00:37
Ethanol	2.24	Incomplete Integration	K4WN	10/29/22 00:37
Acrolein	2.25	Incomplete Integration	K4WN	10/29/22 00:55
2-Propanol	2.48	Incomplete Integration	K4WN	10/29/22 00:37

Lab Sample ID: ICIS 410-311123/13 Client Sample ID:

Date Analyzed: 10/27/22 16:27 Lab File ID: WC27X12.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.32	Incomplete Integration	K4WN	10/29/22 00:39
Ethanol	2.22	Incomplete Integration	K4WN	10/29/22 00:39
2-Propanol	2.46	Incomplete Integration	K4WN	10/29/22 00:39
1,3-Diethylbenzene	10.26	Incomplete Integration	K4WN	10/29/22 00:40

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-106360-1

SDG No.:

Instrument ID: 9137 Analysis Batch Number: 311123

Lab Sample ID: IC 410-311123/14 Client Sample ID:

Date Analyzed: 10/27/22 16:46 Lab File ID: WC27X13.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.30	Incomplete Integration	K4WN	10/29/22 00:40
Ethanol	2.19	Incomplete Integration	K4WN	10/29/22 00:41
2-Propanol	2.46	Incomplete Integration	K4WN	10/29/22 00:41

Lab Sample ID: IC 410-311123/15 Client Sample ID:

Date Analyzed: 10/27/22 17:06 Lab File ID: WC27X14.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.32	Incomplete Integration	K4WN	10/29/22 00:42
Chloromethane	1.45	Incomplete Integration	K4WN	10/29/22 00:42
1,3-Butadiene	1.52	Incomplete Integration	K4WN	10/29/22 00:43
Trichlorofluoromethane	1.99	Incomplete Integration	K4WN	10/29/22 00:43
Ethanol	2.22	Incomplete Integration	K4WN	10/29/22 00:43
2-Propanol	2.47	Incomplete Integration	K4WN	10/29/22 00:43
1,3-Diethylbenzene	10.26	Incomplete Integration	K4WN	10/29/22 00:44

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-106360-1

SDG No.:

Instrument ID: 9137 Analysis Batch Number: 311123

Lab Sample ID: IC 410-311123/16 Client Sample ID:

Date Analyzed: 10/27/22 17:26 Lab File ID: WC27X15.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.32	Incomplete Integration	K4WN	10/29/22 00:44
Ethanol	2.23	Incomplete Integration	K4WN	10/29/22 00:46
Acrolein	2.25	Incomplete Integration	K4WN	10/29/22 00:46
Acetone	2.38	Incomplete Integration	K4WN	10/29/22 01:06
2-Propanol	2.47	Incomplete Integration	K4WN	10/29/22 01:01
Methyl acetate	2.66	Incomplete Integration	K4WN	10/29/22 00:46
t-Butyl alcohol	2.91	Incomplete Integration	K4WN	10/29/22 00:47
Methyl tertiary butyl ether	3.02	Incomplete Integration	K4WN	10/29/22 00:47
2-Butanone	3.96	Incomplete Integration	K4WN	10/29/22 00:47
Bromochloromethane	4.17	Incomplete Integration	K4WN	10/29/22 00:47
Isobutyl alcohol	4.75	Incomplete Integration	K4WN	10/29/22 00:47
1,4-Dioxane	5.82	Incomplete Integration	K4WN	10/29/22 00:47

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-106360-1

SDG No.:

Instrument ID: 9137 Analysis Batch Number: 311123

Lab Sample ID: IC 410-311123/17 Client Sample ID:

Date Analyzed: 10/27/22 17:46 Lab File ID: WC27X16.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.30	Incomplete Integration	K4WN	10/29/22 00:48
1,3-Butadiene	1.51	Incomplete Integration	K4WN	10/29/22 00:48
Bromomethane	1.74	Incomplete Integration	K4WN	10/29/22 00:48
Chloroethane	1.77	Incomplete Integration	K4WN	10/29/22 00:48
n-Pentane	1.99	Incomplete Integration	K4WN	10/29/22 00:49
Ethanol	2.17	Incomplete Integration	K4WN	10/29/22 00:49
Freon 123a	2.18	Incomplete Integration	K4WN	10/29/22 00:53
1,1-Dichloroethene	2.33	Incomplete Integration	K4WN	10/29/22 00:49
Acetone	2.43	Incomplete Integration	K4WN	10/29/22 01:06
2-Propanol	2.50	Incomplete Integration	K4WN	10/29/22 00:49
Allyl chloride	2.63	Incomplete Integration	K4WN	10/29/22 00:49
Methyl acetate	2.65	Incomplete Integration	K4WN	10/29/22 00:50
t-Butyl alcohol	2.92	Incomplete Integration	K4WN	10/29/22 00:50
Methyl tertiary butyl ether	3.00	Incomplete Integration	K4WN	10/29/22 00:50
trans-1,2-Dichloroethene	3.00	Incomplete Integration	K4WN	10/29/22 00:50
Ethyl t-butyl ether	3.79	Incomplete Integration	K4WN	10/29/22 00:50
2-Butanone	3.98	Incomplete Integration	K4WN	10/29/22 00:50
Propionitrile	4.01	Incomplete Integration	K4WN	10/29/22 00:50
Bromochloromethane	4.16	Incomplete Integration	K4WN	10/29/22 00:51
Methacrylonitrile	4.16	Incomplete Integration	K4WN	10/29/22 00:51
Tetrahydrofuran	4.23	Incomplete Integration	K4WN	10/29/22 01:02
Chloroform	4.24	Incomplete Integration	K4WN	10/29/22 00:51
Trichloroethene	5.46	Incomplete Integration	K4WN	10/29/22 00:51
Methylcyclohexane	5.66	Incomplete Integration	K4WN	10/29/22 00:51
1,2-Dichloropropane	5.68	Incomplete Integration	K4WN	10/29/22 00:51
t-Amyl ethyl ether	5.73	Incomplete Integration	K4WN	10/29/22 00:51
1,4-Dioxane	5.84	Incomplete Integration	K4WN	10/29/22 00:52
Bromodichloromethane	5.97	Incomplete Integration	K4WN	10/29/22 00:52
trans-1,3-Dichloropropene	7.06	Incomplete Integration	K4WN	10/29/22 00:52
1,1,2-Trichloroethane	7.26	Incomplete Integration	K4WN	10/29/22 00:52

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-106360-1

SDG No.:

Instrument ID: 9137 Analysis Batch Number: 311123

Lab Sample ID: IC 410-311123/17 Client Sample ID:

Date Analyzed: 10/27/22 17:46 Lab File ID: WC27X16.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3,5-Trimethylbenzene	9.53	Incomplete Integration	K4WN	10/29/22 00:52

Lab Sample ID: ICV 410-311123/19 Client Sample ID:

Date Analyzed: 10/27/22 18:25 Lab File ID: WC27X18.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.32	Incomplete Integration	K4WN	10/29/22 01:10
Ethanol	2.24	Incomplete Integration	K4WN	10/29/22 01:10
2-Propanol	2.46	Incomplete Integration	K4WN	10/29/22 01:11
1,4-Dioxane	5.82	Incomplete Integration	K4WN	10/29/22 01:11

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-106360-1

SDG No.:

Instrument ID: 9137 Analysis Batch Number: 322343

Lab Sample ID: CCVIS 410-322343/3 Client Sample ID:

Date Analyzed: 11/30/22 19:54 Lab File ID: WN30X32.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.33	Incomplete Integration	K4WN	11/30/22 20:21

Lab Sample ID: LCS 410-322343/4 Client Sample ID:

Date Analyzed: 11/30/22 20:14 Lab File ID: WN30X33.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.32	Incomplete Integration	K4WN	11/30/22 20:52

Lab Sample ID: LCSD 410-322343/5 Client Sample ID:

Date Analyzed: 11/30/22 20:34 Lab File ID: WN30X34.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.32	Incomplete Integration	K4WN	11/30/22 20:55

Lab Sample ID: 410-106360-3 MSD Client Sample ID: FBW001-MSD_112022 MSD

Date Analyzed: 11/30/22 23:31 Lab File ID: WN30X43.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride	1.53	Baseline	ULCP	12/01/22 14:12

Lab Sample ID: 410-106360-1 Client Sample ID: FBS010_112022

Date Analyzed: 12/01/22 00:10 Lab File ID: WN30X45.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Butanone		Invalid Compound ID	ULCP	12/01/22 14:40
Acetone		Invalid Compound ID	ULCP	12/01/22 14:40
Methyl acetate		Invalid Compound ID	ULCP	12/01/22 14:40

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-106360-1

SDG No.:

Instrument ID: 9137 Analysis Batch Number: 322343

Lab Sample ID: 410-106360-2 Client Sample ID: DUP-01_112022

Date Analyzed: 12/01/22 00:30 Lab File ID: WN30X46.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Butanone		Invalid Compound ID	ULCP	12/01/22 14:58

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-106360-1

SDG No.:

Instrument ID: 9137 Analysis Batch Number: 311123

Lab Sample ID: IC 410-311123/5 Client Sample ID:

Date Analyzed: 10/27/22 13:49 Lab File ID: WC27X04.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
cis-1,4-Dichloro-2-butene	9.13	Peak assignment corrected	K4WN	10/29/22 00:21

Lab Sample ID: IC 410-311123/6 Client Sample ID:

Date Analyzed: 10/27/22 14:08 Lab File ID: WC27X05.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
cis-1,4-Dichloro-2-butene	9.12	Peak assignment corrected	K4WN	10/29/22 00:21

Lab Sample ID: IC 410-311123/7 Client Sample ID:

Date Analyzed: 10/27/22 14:28 Lab File ID: WC27X06.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	2.64	Incomplete Integration	K4WN	10/29/22 00:21
Vinyl acetate	3.44	Incomplete Integration	K4WN	10/29/22 00:22
cis-1,4-Dichloro-2-butene	9.12	Incomplete Integration	K4WN	10/29/22 00:22

Lab Sample ID: IC 410-311123/8 Client Sample ID:

Date Analyzed: 10/27/22 14:47 Lab File ID: WC27X07.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chlorodifluoromethane	1.33	Incomplete Integration	K4WN	10/29/22 00:22
Vinyl acetate	3.46	Incomplete Integration	K4WN	10/29/22 00:23
Ethyl acetate	4.04	Incomplete Integration	K4WN	10/29/22 00:23
Butyl acetate	7.67	Incomplete Integration	K4WN	10/29/22 00:23
2,3,4-Trichlorobutene	9.59	Incomplete Integration	K4WN	10/29/22 00:23

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-106360-1

SDG No.:

Instrument ID: 9137 Analysis Batch Number: 311123

Lab Sample ID: IC 410-311123/11 Client Sample ID:

Date Analyzed: 10/27/22 15:47 Lab File ID: WC27X10.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.32	Incomplete Integration	K4WN	10/29/22 00:34
Ethanol	2.20	Incomplete Integration	K4WN	10/29/22 00:34

Lab Sample ID: IC 410-311123/12 Client Sample ID:

Date Analyzed: 10/27/22 16:07 Lab File ID: WC27X11.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.31	Incomplete Integration	K4WN	10/29/22 00:37
Ethanol	2.24	Incomplete Integration	K4WN	10/29/22 00:37
Acrolein	2.25	Incomplete Integration	K4WN	10/29/22 00:55
2-Propanol	2.48	Incomplete Integration	K4WN	10/29/22 00:37

Lab Sample ID: ICIS 410-311123/13 Client Sample ID:

Date Analyzed: 10/27/22 16:27 Lab File ID: WC27X12.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.32	Incomplete Integration	K4WN	10/29/22 00:39
Ethanol	2.22	Incomplete Integration	K4WN	10/29/22 00:39
2-Propanol	2.46	Incomplete Integration	K4WN	10/29/22 00:39
1,3-Diethylbenzene	10.26	Incomplete Integration	K4WN	10/29/22 00:40

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-106360-1

SDG No.:

Instrument ID: 9137 Analysis Batch Number: 311123

Lab Sample ID: IC 410-311123/14 Client Sample ID:

Date Analyzed: 10/27/22 16:46 Lab File ID: WC27X13.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.30	Incomplete Integration	K4WN	10/29/22 00:40
Ethanol	2.19	Incomplete Integration	K4WN	10/29/22 00:41
2-Propanol	2.46	Incomplete Integration	K4WN	10/29/22 00:41

Lab Sample ID: IC 410-311123/15 Client Sample ID:

Date Analyzed: 10/27/22 17:06 Lab File ID: WC27X14.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.32	Incomplete Integration	K4WN	10/29/22 00:42
Chloromethane	1.45	Incomplete Integration	K4WN	10/29/22 00:42
1,3-Butadiene	1.52	Incomplete Integration	K4WN	10/29/22 00:43
Trichlorofluoromethane	1.99	Incomplete Integration	K4WN	10/29/22 00:43
Ethanol	2.22	Incomplete Integration	K4WN	10/29/22 00:43
2-Propanol	2.47	Incomplete Integration	K4WN	10/29/22 00:43
1,3-Diethylbenzene	10.26	Incomplete Integration	K4WN	10/29/22 00:44

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-106360-1

SDG No.:

Instrument ID: 9137 Analysis Batch Number: 311123

Lab Sample ID: IC 410-311123/16 Client Sample ID:

Date Analyzed: 10/27/22 17:26 Lab File ID: WC27X15.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.32	Incomplete Integration	K4WN	10/29/22 00:44
Ethanol	2.23	Incomplete Integration	K4WN	10/29/22 00:46
Acrolein	2.25	Incomplete Integration	K4WN	10/29/22 00:46
Acetone	2.38	Incomplete Integration	K4WN	10/29/22 01:06
2-Propanol	2.47	Incomplete Integration	K4WN	10/29/22 01:01
Methyl acetate	2.66	Incomplete Integration	K4WN	10/29/22 00:46
t-Butyl alcohol	2.91	Incomplete Integration	K4WN	10/29/22 00:47
Methyl tertiary butyl ether	3.02	Incomplete Integration	K4WN	10/29/22 00:47
2-Butanone	3.96	Incomplete Integration	K4WN	10/29/22 00:47
Bromochloromethane	4.17	Incomplete Integration	K4WN	10/29/22 00:47
Isobutyl alcohol	4.75	Incomplete Integration	K4WN	10/29/22 00:47
1,4-Dioxane	5.82	Incomplete Integration	K4WN	10/29/22 00:47

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-106360-1

SDG No.:

Instrument ID: 9137 Analysis Batch Number: 311123

Lab Sample ID: IC 410-311123/17 Client Sample ID:

Date Analyzed: 10/27/22 17:46 Lab File ID: WC27X16.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.30	Incomplete Integration	K4WN	10/29/22 00:48
1,3-Butadiene	1.51	Incomplete Integration	K4WN	10/29/22 00:48
Bromomethane	1.74	Incomplete Integration	K4WN	10/29/22 00:48
Chloroethane	1.77	Incomplete Integration	K4WN	10/29/22 00:48
n-Pentane	1.99	Incomplete Integration	K4WN	10/29/22 00:49
Ethanol	2.17	Incomplete Integration	K4WN	10/29/22 00:49
Freon 123a	2.18	Incomplete Integration	K4WN	10/29/22 00:53
1,1-Dichloroethene	2.33	Incomplete Integration	K4WN	10/29/22 00:49
Acetone	2.43	Incomplete Integration	K4WN	10/29/22 01:06
2-Propanol	2.50	Incomplete Integration	K4WN	10/29/22 00:49
Allyl chloride	2.63	Incomplete Integration	K4WN	10/29/22 00:49
Methyl acetate	2.65	Incomplete Integration	K4WN	10/29/22 00:50
t-Butyl alcohol	2.92	Incomplete Integration	K4WN	10/29/22 00:50
Methyl tertiary butyl ether	3.00	Incomplete Integration	K4WN	10/29/22 00:50
trans-1,2-Dichloroethene	3.00	Incomplete Integration	K4WN	10/29/22 00:50
Ethyl t-butyl ether	3.79	Incomplete Integration	K4WN	10/29/22 00:50
2-Butanone	3.98	Incomplete Integration	K4WN	10/29/22 00:50
Propionitrile	4.01	Incomplete Integration	K4WN	10/29/22 00:50
Bromochloromethane	4.16	Incomplete Integration	K4WN	10/29/22 00:51
Methacrylonitrile	4.16	Incomplete Integration	K4WN	10/29/22 00:51
Tetrahydrofuran	4.23	Incomplete Integration	K4WN	10/29/22 01:02
Chloroform	4.24	Incomplete Integration	K4WN	10/29/22 00:51
Trichloroethene	5.46	Incomplete Integration	K4WN	10/29/22 00:51
Methylcyclohexane	5.66	Incomplete Integration	K4WN	10/29/22 00:51
1,2-Dichloropropane	5.68	Incomplete Integration	K4WN	10/29/22 00:51
t-Amyl ethyl ether	5.73	Incomplete Integration	K4WN	10/29/22 00:51
1,4-Dioxane	5.84	Incomplete Integration	K4WN	10/29/22 00:52
Bromodichloromethane	5.97	Incomplete Integration	K4WN	10/29/22 00:52
trans-1,3-Dichloropropene	7.06	Incomplete Integration	K4WN	10/29/22 00:52
1,1,2-Trichloroethane	7.26	Incomplete Integration	K4WN	10/29/22 00:52

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-106360-1

SDG No.:

Instrument ID: 9137 Analysis Batch Number: 311123

Lab Sample ID: IC 410-311123/17 Client Sample ID:

Date Analyzed: 10/27/22 17:46 Lab File ID: WC27X16.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3,5-Trimethylbenzene	9.53	Incomplete Integration	K4WN	10/29/22 00:52

Lab Sample ID: ICV 410-311123/19 Client Sample ID:

Date Analyzed: 10/27/22 18:25 Lab File ID: WC27X18.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.32	Incomplete Integration	K4WN	10/29/22 01:10
Ethanol	2.24	Incomplete Integration	K4WN	10/29/22 01:10
2-Propanol	2.46	Incomplete Integration	K4WN	10/29/22 01:11
1,4-Dioxane	5.82	Incomplete Integration	K4WN	10/29/22 01:11

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-106360-1

SDG No.:

Instrument ID: 9137 Analysis Batch Number: 322343

Lab Sample ID: CCVIS 410-322343/3 Client Sample ID:

Date Analyzed: 11/30/22 19:54 Lab File ID: WN30X32.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.33	Incomplete Integration	K4WN	11/30/22 20:21

Lab Sample ID: LCS 410-322343/4 Client Sample ID:

Date Analyzed: 11/30/22 20:14 Lab File ID: WN30X33.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.32	Incomplete Integration	K4WN	11/30/22 20:52

Lab Sample ID: LCSD 410-322343/5 Client Sample ID:

Date Analyzed: 11/30/22 20:34 Lab File ID: WN30X34.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.32	Incomplete Integration	K4WN	11/30/22 20:55

Lab Sample ID: 410-106360-3 MSD Client Sample ID: FBW001-MSD_112022 MSD

Date Analyzed: 11/30/22 23:31 Lab File ID: WN30X43.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride	1.53	Baseline	ULCP	12/01/22 14:12

Lab Sample ID: 410-106360-1 Client Sample ID: FBS010_112022

Date Analyzed: 12/01/22 00:10 Lab File ID: WN30X45.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Butanone		Invalid Compound ID	ULCP	12/01/22 14:40
Acetone		Invalid Compound ID	ULCP	12/01/22 14:40
Methyl acetate		Invalid Compound ID	ULCP	12/01/22 14:40

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-106360-1

SDG No.:

Instrument ID: 9137 Analysis Batch Number: 322343

Lab Sample ID: 410-106360-2 Client Sample ID: DUP-01_112022

Date Analyzed: 12/01/22 00:30 Lab File ID: WN30X46.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Butanone		Invalid Compound ID	ULCP	12/01/22 14:58

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-106360-1

SDG No.:

Instrument ID: HP19760 Analysis Batch Number: 314883

Lab Sample ID: ICIS 410-314883/2 Client Sample ID:

Date Analyzed: 11/07/22 18:52 Lab File ID: DK0701a.D GC Column: DB-5MS 30m 0. ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bis(2-ethylhexyl) phthalate	11.55	Split Peak	SJ89	11/07/22 22:51

Lab Sample ID: IC 410-314883/3 Client Sample ID:

Date Analyzed: 11/07/22 19:20 Lab File ID: DK0702.D GC Column: DB-5MS 30m 0. ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	1.91	Split Peak	SJ89	11/07/22 19:50
N-Nitrosodimethylamine	2.14	Split Peak	SJ89	11/07/22 19:50
N-Nitrosodi-n-butylamine	6.12	Split Peak	SJ89	11/07/22 19:51
Isosafrole Peak 1	6.61	Split Peak	SJ89	11/07/22 19:51
1,4-Dinitrobenzene	7.10	Peak assignment corrected	SJ89	11/07/22 19:52
N,N-dimethylformamide		Invalid Compound ID	SJ89	11/07/22 19:50
N-Nitrosomethylethylamine		Invalid Compound ID	SJ89	11/07/22 19:50
Bis(2-ethylhexyl) phthalate	11.55	Split Peak	SJ89	11/07/22 22:52
Dibenz[a,j]acridine	14.74	Peak assignment corrected	SJ89	11/07/22 19:52
Indeno[1,2,3-cd]pyrene	14.98	Baseline	SJ89	11/07/22 19:53

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-106360-1

SDG No.:

Instrument ID: HP19760 Analysis Batch Number: 314883

Lab Sample ID: IC 410-314883/4 Client Sample ID:

Date Analyzed: 11/07/22 19:41 Lab File ID: DK0703.D GC Column: DB-5MS 30m 0. ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Phenol	4.15	Peak assignment corrected	SJ89	11/07/22 20:39
Isosafrole Peak 1	6.61	Peak assignment corrected	SJ89	11/07/22 20:39
2-Chloronaphthalene	6.87	Peak assignment corrected	SJ89	11/07/22 20:39
5-Nitro-o-toluidine	7.92	Split Peak	SJ89	11/07/22 20:40
N,N-dimethylformamide		Invalid Compound ID	SJ89	11/07/22 20:39
N-Nitrosomethylethylamine		Invalid Compound ID	SJ89	11/07/22 20:39
Bis(2-ethylhexyl) phthalate	11.55	Split Peak	SJ89	11/07/22 22:52
Benzo[a]pyrene	13.36	Split Peak	SJ89	11/07/22 20:40
Dibenz[a,j]acridine	14.74	Split Peak	SJ89	11/07/22 20:40

Lab Sample ID: IC 410-314883/5 Client Sample ID:

Date Analyzed: 11/07/22 20:02 Lab File ID: DK0704.D GC Column: DB-5MS 30m 0. ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bis(2-ethylhexyl) phthalate	11.55	Split Peak	SJ89	11/07/22 22:52

Lab Sample ID: IC 410-314883/6 Client Sample ID:

Date Analyzed: 11/07/22 20:23 Lab File ID: DK0705.D GC Column: DB-5MS 30m 0. ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Chloronaphthalene	6.87	Split Peak	SJ89	11/07/22 20:43
1-Chloronaphthalene	6.89	Split Peak	SJ89	11/07/22 20:43
Bis(2-ethylhexyl) phthalate	11.54	Split Peak	SJ89	11/07/22 22:53

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-106360-1

SDG No.:

Instrument ID: HP19760 Analysis Batch Number: 314883

Lab Sample ID: IC 410-314883/8 Client Sample ID:

Date Analyzed: 11/07/22 21:04 Lab File ID: DK0707.D GC Column: DB-5MS 30m 0. ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bis(2-ethylhexyl) phthalate	11.54	Split Peak	SJ89	11/07/22 22:50

Lab Sample ID: IC 410-314883/9 Client Sample ID:

Date Analyzed: 11/07/22 21:25 Lab File ID: DK0708.D GC Column: DB-5MS 30m 0. ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
N,N-dimethylformamide	2.51	Baseline	SJ89	11/07/22 21:47
Bis(2-ethylhexyl) phthalate	11.54	Split Peak	SJ89	11/07/22 22:50

Lab Sample ID: ICV 410-314883/12 Client Sample ID:

Date Analyzed: 11/07/22 22:28 Lab File ID: DK0711.D GC Column: DB-5MS 30m 0. ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-phenylenediamine	6.13	Peak assignment corrected	W6XI	11/08/22 08:13

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-106360-1

SDG No.:

Instrument ID: HP19760 Analysis Batch Number: 320818

Lab Sample ID: CCVIS 410-320818/2 Client Sample ID:

Date Analyzed: 11/24/22 18:45 Lab File ID: DK2451.D GC Column: DB-5MS 30m 0. ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Chloronaphthalene	6.77	Split Peak	P7EB	11/24/22 19:20
1-Chloronaphthalene	6.78	Split Peak	P7EB	11/24/22 19:20

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-106360-1

SDG No.:

Instrument ID: HP21585 Analysis Batch Number: 280637

Lab Sample ID: ICIS 410-280637/2 Client Sample ID:

Date Analyzed: 07/28/22 19:23 Lab File ID: MG1351b.D GC Column: DB-5MS 30m 0. ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	1.85	Baseline	UJM0	07/29/22 06:35
Indeno[1,2,3-cd]pyrene	15.11	Baseline	UJM0	07/29/22 06:35

Lab Sample ID: IC 410-280637/3 Client Sample ID:

Date Analyzed: 07/28/22 20:06 Lab File ID: MG1352.D GC Column: DB-5MS 30m 0. ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.12	Baseline	UJM0	07/29/22 06:37

Lab Sample ID: IC 410-280637/4 Client Sample ID:

Date Analyzed: 07/28/22 20:27 Lab File ID: MG1353.D GC Column: DB-5MS 30m 0. ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	1.85	Baseline	UJM0	07/29/22 06:37
Indeno[1,2,3-cd]pyrene	15.10	Baseline	UJM0	07/29/22 06:37

Lab Sample ID: IC 410-280637/5 Client Sample ID:

Date Analyzed: 07/28/22 20:49 Lab File ID: MG1354.D GC Column: DB-5MS 30m 0. ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	1.85	Baseline	UJM0	07/29/22 06:38
Indeno[1,2,3-cd]pyrene	15.10	Baseline	UJM0	07/29/22 06:38

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-106360-1

SDG No.:

Instrument ID: HP21585 Analysis Batch Number: 280637

Lab Sample ID: IC 410-280637/6 Client Sample ID:

Date Analyzed: 07/28/22 21:10 Lab File ID: MG1355.D GC Column: DB-5MS 30m 0. ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	1.85	Baseline	UJM0	07/29/22 06:39
Indeno[1,2,3-cd]pyrene	15.10	Baseline	UJM0	07/29/22 06:39

Lab Sample ID: IC 410-280637/7 Client Sample ID:

Date Analyzed: 07/28/22 21:32 Lab File ID: MG1356.D GC Column: DB-5MS 30m 0. ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	1.86	Baseline	UJM0	07/29/22 06:40
N-Nitrosodimethylamine	2.15	Baseline	UJM0	07/29/22 06:40
Indeno[1,2,3-cd]pyrene	15.10	Baseline	UJM0	07/29/22 06:40

Lab Sample ID: ICV 410-280637/9 Client Sample ID:

Date Analyzed: 07/28/22 22:14 Lab File ID: MG1358.D GC Column: DB-5MS 30m 0. ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	1.85	Baseline	UJM0	07/29/22 06:46
Bis(2-chloroethyl)ether	4.31	Baseline	UJM0	07/29/22 06:47
Indeno[1,2,3-cd]pyrene	15.10	Baseline	UJM0	07/29/22 06:47

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-106360-1

SDG No.:

Instrument ID: HP21585 Analysis Batch Number: 322405

Lab Sample ID: CCVIS 410-322405/2 Client Sample ID:

Date Analyzed: 12/01/22 05:47 Lab File ID: ML0011.D GC Column: DB-5MS 30m 0. ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.69	Baseline	UJM0	12/01/22 06:09

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-106360-1

SDG No.:

Instrument ID: HP23263 Analysis Batch Number: 303206

Lab Sample ID: IC 410-303206/4 Client Sample ID:

Date Analyzed: 10/05/22 10:37 Lab File ID: NJ0023.D GC Column: DB-5MS 30m 0. ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Perylene	13.62	Baseline	SJ89	10/05/22 16:11

Lab Sample ID: IC 410-303206/5 Client Sample ID:

Date Analyzed: 10/05/22 10:59 Lab File ID: NJ0024.D GC Column: DB-5MS 30m 0. ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Perylene	13.62	Baseline	SJ89	10/05/22 16:11

Lab Sample ID: IC 410-303206/6 Client Sample ID:

Date Analyzed: 10/05/22 11:20 Lab File ID: NJ0025.D GC Column: DB-5MS 30m 0. ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Perylene	13.62	Baseline	SJ89	10/05/22 16:10

Lab Sample ID: IC 410-303206/7 Client Sample ID:

Date Analyzed: 10/05/22 11:42 Lab File ID: NJ0026.D GC Column: DB-5MS 30m 0. ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Perylene	13.62	Baseline	SJ89	10/05/22 16:10
Indeno[1,2,3-cd]pyrene	15.27	Baseline	SJ89	10/05/22 15:43

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-106360-1

SDG No.:

Instrument ID: HP23263 Analysis Batch Number: 303206

Lab Sample ID: ICV 410-303206/9 Client Sample ID:

Date Analyzed: 10/05/22 12:25 Lab File ID: NJ0028.D GC Column: DB-5MS 30m 0. ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	1.95	Split Peak	SJ89	10/05/22 16:01
Bis(2-chloroethyl)ether	4.37	Split Peak	SJ89	10/05/22 16:14
Naphthalene-d8	5.82	Split Peak	SJ89	10/05/22 16:00
Benzo[e]pyrene	13.42	Peak assignment corrected	SJ89	10/05/22 16:06

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-106360-1

SDG No.:

Instrument ID: HP23263 Analysis Batch Number: 321961

Lab Sample ID: MB 410-320750/1-A Client Sample ID:

Date Analyzed: 11/30/22 06:03 Lab File ID: NK1402.D GC Column: DB-5MS 30m 0. ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane		Invalid Compound ID	UJM0	12/01/22 04:17
Anthracene		Invalid Compound ID	UJM0	12/01/22 04:17
Di-n-octyl phthalate		Invalid Compound ID	UJM0	12/01/22 04:17

Lab Sample ID: LCS 410-320750/2-A Client Sample ID:

Date Analyzed: 11/30/22 06:25 Lab File ID: NK1403.D GC Column: DB-5MS 30m 0. ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	1.68	Baseline	UJM0	12/01/22 04:18
Di-n-octyl phthalate	12.45	Baseline	UJM0	12/01/22 04:18

Lab Sample ID: LCSD 410-320750/3-A Client Sample ID:

Date Analyzed: 11/30/22 06:46 Lab File ID: NK1404.D GC Column: DB-5MS 30m 0. ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Di-n-octyl phthalate	12.45	Baseline	UJM0	12/01/22 04:19

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-106360-1

SDG No.:

Instrument ID: HP23263 Analysis Batch Number: 321961

Lab Sample ID: 410-106360-3 Client Sample ID: FBW001_112022

Date Analyzed: 11/30/22 09:38 Lab File ID: NK1412.D GC Column: DB-5MS 30m 0. ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Methylnaphthalene	6.45	Baseline	UJM0	12/01/22 04:23
1-Methylnaphthalene	6.54	Baseline	UJM0	12/01/22 04:23
Acenaphthene	7.47	Baseline	UJM0	12/01/22 04:23
1,4-Dioxane		Invalid Compound ID	UJM0	12/01/22 04:23
Fluoranthene	10.01	Baseline	UJM0	12/01/22 04:24
Butylbenzylphthalate	10.90	Baseline	UJM0	12/01/22 04:24
Benzo[a]anthracene	11.51	Baseline	UJM0	12/01/22 04:24
Chrysene-d12	11.52	Baseline	UJM0	12/01/22 04:23
Benzo[k]fluoranthene	12.97	Baseline	UJM0	12/01/22 04:24
Benzo[a]pyrene	13.40	Baseline	UJM0	12/01/22 04:25
Indeno[1,2,3-cd]pyrene	15.13	Baseline	UJM0	12/01/22 04:25
Dibenz(a,h)anthracene	15.18	Baseline	UJM0	12/01/22 04:25
Benzo[g,h,i]perylene	15.58	Baseline	UJM0	12/01/22 04:25

Lab Sample ID: 410-106360-3 MS Client Sample ID: FBW001-MS_112022 MS

Date Analyzed: 11/30/22 09:59 Lab File ID: NK1413.D GC Column: DB-5MS 30m 0. ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bis(2-chloroethyl)ether	4.31	Baseline	UJM0	12/01/22 04:25
Di-n-octyl phthalate	12.46	Baseline	UJM0	12/01/22 04:26

Lab Sample ID: 410-106360-1 Client Sample ID: FBS010_112022

Date Analyzed: 11/30/22 15:32 Lab File ID: NK1415.D GC Column: DB-5MS 30m 0. ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Phenanthrene	8.88	Baseline	UJM0	12/01/22 04:27
Anthracene	8.93	Baseline	UJM0	12/01/22 04:27
1,4-Dioxane		Invalid Compound ID	UJM0	12/01/22 04:27

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-106360-1

SDG No.:

Instrument ID: HP23263 Analysis Batch Number: 321961

Lab Sample ID: 410-106360-2 Client Sample ID: DUP-01_112022

Date Analyzed: 11/30/22 15:54 Lab File ID: NK1416.D GC Column: DB-5MS 30m 0. ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane		Invalid Compound ID	UJM0	12/01/22 04:28
Di-n-octyl phthalate		Invalid Compound ID	UJM0	12/01/22 04:28

Lab Sample ID: 410-106360-4 Client Sample ID: FBW001_FB_112022

Date Analyzed: 11/30/22 16:15 Lab File ID: NK1417.D GC Column: DB-5MS 30m 0. ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Anthracene		Invalid Compound ID	UJM0	12/01/22 04:29
Di-n-octyl phthalate		Invalid Compound ID	UJM0	12/01/22 04:29

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-106360-1

SDG No.:

Instrument ID: HP23263 Analysis Batch Number: 323522

Lab Sample ID: MB 410-323309/1-A Client Sample ID:

Date Analyzed: 12/05/22 06:30 Lab File ID: NL0164.D GC Column: DB-5MS 30m 0. ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane		Invalid Compound ID	UJM0	12/05/22 07:03
Di-n-octyl phthalate		Invalid Compound ID	UJM0	12/05/22 07:04

Lab Sample ID: 410-106360-1 RE Client Sample ID: FBS010_112022 RE

Date Analyzed: 12/05/22 10:27 Lab File ID: NL0175.D GC Column: DB-5MS 30m 0. ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bis(2-chloroethyl)ether		Invalid Compound ID	UJM0	12/05/22 10:47
Di-n-octyl phthalate		Invalid Compound ID	UJM0	12/05/22 10:47

Lab Sample ID: 410-106360-3 RE Client Sample ID: FBW001_112022 RE

Date Analyzed: 12/05/22 11:11 Lab File ID: NL0177.D GC Column: DB-5MS 30m 0. ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Di-n-octyl phthalate		Invalid Compound ID	SJ89	12/05/22 15:56

Lab Sample ID: 410-106360-4 RE Client Sample ID: FBW001_FB_112022 RE

Date Analyzed: 12/05/22 12:16 Lab File ID: NL0180.D GC Column: DB-5MS 30m 0. ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Di-n-octyl phthalate		Invalid Compound ID	SJ89	12/05/22 15:57

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
MSV_4ppbEtoh_00452	10/31/22	10/27/22	DI Water, Lot DI 21319	1000 mL	MSV_CCV_2CEVE_00090	4 uL	2-Chloroethyl vinyl ether	0.004 ug/mL
					MSV_CCV_CYC_00004	32 uL	Cyclohexanone	0.200013 ug/mL
					MSV_CCV_ETOH_00003	20 uL	Ethanol	0.250006 ug/mL
					MSV_CCV_GASES_00292	2 uL	1,2-Dichloro-1,1,2-trifluoroethane	0.004 ug/mL
							Bromomethane	0.004 ug/mL
							Butadiene	0.004 ug/mL
							Chloroethane	0.004 ug/mL
							Chloromethane	0.004 ug/mL
							Dichlorodifluoromethane	0.004 ug/mL
							Dichlorofluoromethane	0.004 ug/mL
							Trichlorofluoromethane	0.004 ug/mL
							Vinyl chloride	0.004 ug/mL
					MSV_CCV_VOC#1_00094	4 uL	1,1,1,2-Tetrachloroethane	0.004 ug/mL
							1,1,1-Trichloroethane	0.004 ug/mL
							1,1,2,2-Tetrachloroethane	0.004 ug/mL
							1,1,2-Trichloroethane	0.004 ug/mL
							1,1-Dichloroethane	0.004 ug/mL
							1,1-Dichloroethene	0.004 ug/mL
							1,1-Dichloropropene	0.004 ug/mL
							1,2,3-Trichlorobenzene	0.004 ug/mL
							1,2,3-Trichloropropane	0.004 ug/mL
							1,2,4-Trichlorobenzene	0.004 ug/mL
							1,2,4-Trimethylbenzene	0.004 ug/mL
							1,2-Dibromo-3-Chloropropane	0.004 ug/mL
							1,2-Dibromoethane	0.004 ug/mL
							1,2-Dichlorobenzene	0.004 ug/mL
							1,2-Dichloroethane	0.004 ug/mL
							1,2-Dichloropropane	0.004 ug/mL
							1,3,5-Trimethylbenzene	0.004 ug/mL
							1,3-Dichlorobenzene	0.004 ug/mL
							1,3-Dichloropropane	0.004 ug/mL
							1,4-Dichlorobenzene	0.004 ug/mL
							2,2-Dichloropropane	0.004 ug/mL
							2-Chlorotoluene	0.004 ug/mL
							4-Chlorotoluene	0.004 ug/mL
							4-Isopropyltoluene	0.004 ug/mL
							Benzene	0.004 ug/mL
							Bromobenzene	0.004 ug/mL
							Bromodichloromethane	0.004 ug/mL
							Bromoform	0.004 ug/mL
							Carbon tetrachloride	0.004 ug/mL
							Chlorobenzene	0.004 ug/mL
							Chlorobromomethane	0.004 ug/mL
							Chloroform	0.004 ug/mL
							cis-1,2-Dichloroethene	0.004 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							cis-1,3-Dichloropropene	0.004 ug/mL
							Dibromochloromethane	0.004 ug/mL
							Dibromomethane	0.004 ug/mL
							Ethylbenzene	0.004 ug/mL
							Hexachlorobutadiene	0.004 ug/mL
							Isopropylbenzene	0.004 ug/mL
							m-Xylene & p-Xylene	0.008 ug/mL
							Methylene Chloride	0.004 ug/mL
							n-Butylbenzene	0.004 ug/mL
							N-Propylbenzene	0.004 ug/mL
							Naphthalene	0.004 ug/mL
							o-Xylene	0.004 ug/mL
							sec-Butylbenzene	0.004 ug/mL
							Styrene	0.004 ug/mL
							tert-Butylbenzene	0.004 ug/mL
							Tetrachloroethene	0.004 ug/mL
							Toluene	0.004 ug/mL
							trans-1,2-Dichloroethene	0.004 ug/mL
							trans-1,3-Dichloropropene	0.004 ug/mL
							Trichloroethene	0.004 ug/mL
							1,2,3-Trimethylbenzene	0.004 ug/mL
							1,3,5-Trichlorobenzene	0.004 ug/mL
							1,3-Diethylbenzene	0.004 ug/mL
							1,4-Dioxane	0.2 ug/mL
							1-Chlorohexane	0.004 ug/mL
							2-Chloro-1,3-butadiene	0.004 ug/mL
							2-ethoxy-2-methyl butane	0.004 ug/mL
							2-Methyl-2-propanol	0.08 ug/mL
							2-Methylnaphthalene	0.004 ug/mL
							2-Nitropropane	0.02 ug/mL
							3-Chloro-1-propene	0.004 ug/mL
							Acrylonitrile	0.01 ug/mL
							Benzyl chloride	0.004 ug/mL
							Carbon disulfide	0.004 ug/mL
							Cyclohexane	0.004 ug/mL
							Ethyl methacrylate	0.004 ug/mL
							Freon 113	0.004 ug/mL
							Hexane	0.004 ug/mL
							Iodomethane	0.004 ug/mL
							Isobutyl alcohol	0.2 ug/mL
							Isopropyl alcohol	0.08 ug/mL
							Isopropyl ether	0.004 ug/mL
							Methacrylonitrile	0.04 ug/mL
							Methyl acetate	0.004 ug/mL
							Methyl methacrylate	0.004 ug/mL
							Methyl tertiary butyl ether	0.004 ug/mL
							Methylcyclohexane	0.004 ug/mL
							n-Butanol	0.35 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Heptane	0.004 ug/mL
							o-diethylbenzene	0.004 ug/mL
							p-Diethylbenzene	0.004 ug/mL
							Pentane	0.004 ug/mL
							Propionitrile	0.08 ug/mL
							Tert-amyl methyl ether	0.004 ug/mL
							Tert-butyl ethyl ether	0.004 ug/mL
							Tetrahydrofuran	0.02 ug/mL
							trans-1,4-Dichloro-2-butene	0.04 ug/mL
					MSV_CCV_VOC#3_00094	3.2 uL	Acrolein	0.0400007 ug/mL
							2-Butanone	0.008 ug/mL
							2-Hexanone	0.008 ug/mL
							4-Methyl-2-pentanone	0.008 ug/mL
							Acetone	0.008 ug/mL
					MSV_V_VOA2_00163	12 uL	1,4-Dioxane	0.2 ug/mL
							2-Methyl-2-propanol	0.08 ug/mL
							Isobutyl alcohol	0.2 ug/mL
							Isopropyl alcohol	0.08 ug/mL
							Methacrylonitrile	0.04 ug/mL
							n-Butanol	0.35 ug/mL
							Propionitrile	0.08 ug/mL
							trans-1,4-Dichloro-2-butene	0.04 ug/mL
.MSV_CCV_2CEVE_00090	11/22/22	10/23/22	Methanol, Lot EB679	5 mL	MSV_V_2CLEVE_00093	1 mL	2-Chloroethyl vinyl ether	1000 ug/mL
..MSV_V_2CLEVE_00093	04/30/24		Restek, Lot A0171422		(Purchased Reagent)		2-Chloroethyl vinyl ether	5000 ug/mL
.MSV_CCV_CYC_00004	01/28/23	07/28/22	50/50 MeOH/Water, Lot EB679	100 mL	MSV_VCYC_STK_00008	2.787 mL	Cyclohexanone	6250.4 ug/mL
..MSV_VCYC_STK_00008	01/28/23	07/28/22	50/50 MeOH/Water, Lot EB679	10 mL	MSV_CYC_00007	2.2427 g	Cyclohexanone	224270 ug/mL
...MSV_CYC_00007	05/31/23		Chem Service, Lot 12628400		(Purchased Reagent)		Cyclohexanone	1 g/g
.MSV_CCV_ETOH_00003	04/11/23	10/11/22	Methanol, Lot EB679	200 mL	MSV_VETOH_STK_00011	8.612 mL	Ethanol	12500.3 ug/mL
..MSV_VETOH_STK_00011	04/11/23	10/11/22	Methanol, Lot EB679	10 mL	MSV_EtOH_00034	2.903 g	Ethanol	290300 ug/mL
...MSV_EtOH_00034	08/30/25		Chem Service, Lot 13347300		(Purchased Reagent)		Ethanol	1 g/g
.MSV_CCV_GASES_00292	11/03/22		Restek, Lot A0184815		(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_VOC#1_00094	11/22/22	10/23/22	Methanol, Lot EB679	5 mL	MSV_MegaMIX#1_00094	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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					MSV_MegaMix#2_00091	1 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
							Freon 113	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 tertiary 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_00094	11/22/22		Restek, Lot A0171634		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	5000 ug/mL
							1,1,1-Trichloroethane	5000 ug/mL
							1,1,2,2-Tetrachloroethane	5000 ug/mL
							1,1,2-Trichloroethane	5000 ug/mL
							1,1-Dichloroethane	5000 ug/mL
							1,1-Dichloroethene	5000 ug/mL
							1,1-Dichloropropene	5000 ug/mL
							1,2,3-Trichlorobenzene	5000 ug/mL
							1,2,3-Trichloropropane	5000 ug/mL
							1,2,4-Trichlorobenzene	5000 ug/mL
							1,2,4-Trimethylbenzene	5000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dibromo-3-Chloropropane	5000 ug/mL
							1,2-Dibromoethane	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
							Bromodichloromethane	5000 ug/mL
							Bromoform	5000 ug/mL
							Carbon tetrachloride	5000 ug/mL
							Chlorobenzene	5000 ug/mL
							Chlorobromomethane	5000 ug/mL
							Chloroform	5000 ug/mL
							cis-1,2-Dichloroethene	5000 ug/mL
							cis-1,3-Dichloropropene	5000 ug/mL
							Dibromochloromethane	5000 ug/mL
							Dibromomethane	5000 ug/mL
							Ethylbenzene	5000 ug/mL
							Hexachlorobutadiene	5000 ug/mL
							Isopropylbenzene	5000 ug/mL
							m-Xylene & p-Xylene	10000 ug/mL
							Methylene Chloride	5000 ug/mL
							n-Butylbenzene	5000 ug/mL
							N-Propylbenzene	5000 ug/mL
							Naphthalene	5000 ug/mL
							o-Xylene	5000 ug/mL
							sec-Butylbenzene	5000 ug/mL
							Styrene	5000 ug/mL
							tert-Butylbenzene	5000 ug/mL
							Tetrachloroethene	5000 ug/mL
							Toluene	5000 ug/mL
							trans-1,2-Dichloroethene	5000 ug/mL
							trans-1,3-Dichloropropene	5000 ug/mL
							Trichloroethene	5000 ug/mL
..MSV_MegaMix#2_00091	11/22/22		Restek, Lot A0173454		(Purchased Reagent)		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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							Freon 113	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 tertiary 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#3_00094	11/10/22	10/23/22	Methanol, Lot EB679	5 mL	MSV_CCV_ACR_00006	0.5 mL	Acrolein	12500.2 ug/mL
					MSV_V_Ketones_00089	1 mL	2-Butanone	2500 ug/mL
							2-Hexanone	2500 ug/mL
							4-Methyl-2-pentanone	2500 ug/mL
							Acetone	2500 ug/mL
..MSV_CCV_ACR_00006	11/10/22	09/11/22	Methanol, Lot EB679	10 mL	MSV_VACR_STK_00028	9.232 mL	Acrolein	125002 ug/mL
...MSV_VACR_STK_00028	11/10/22	09/11/22	Methanol, Lot EB679	10 mL	MSV_ACROLEIN_00022	1.4528 g	Acrolein	135401 ug/mL
....MSV_ACROLEIN_00022	02/28/23	Chem Service, Lot 12926800			(Purchased Reagent)		Acrolein	0.932 g/g
..MSV_V_Ketones_00089	01/31/25	Restek, Lot A0180742			(Purchased Reagent)		2-Butanone	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone	12500 ug/mL
							Acetone	12500 ug/mL
.MSV_V_VOA2_00163	11/22/22	10/23/22	Methanol, Lot EB679	5 mL	MSV_V#2B_00292	1 mL	1,4-Dioxane	12500 ug/mL
							2-Methyl-2-propanol	5000 ug/mL
							Isobutyl alcohol	12500 ug/mL
							Isopropyl alcohol	5000 ug/mL
							Methacrylonitrile	2500 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Butanol	25000 ug/mL
							Propionitrile	5000 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
..MSV_V#2B_00292	04/30/24		Restek, Lot A0184378		(Purchased Reagent)		1,4-Dioxane	62500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropyl alcohol	25000 ug/mL
							Methacrylonitrile	12500 ug/mL
							n-Butanol	125000 ug/mL
							Propionitrile	25000 ug/mL
							trans-1,4-Dichloro-2-butene	12500 ug/mL
MSV_CCV_2CEVE_00090	11/22/22	10/23/22	Methanol, Lot EB679	5 mL	MSV_V_2CLEVE_00093	1 mL	2-Chloroethyl vinyl ether	1000 ug/mL
.MSV_V_2CLEVE_00093	04/30/24		Restek, Lot A0171422		(Purchased Reagent)		2-Chloroethyl vinyl ether	5000 ug/mL
MSV_CCV_CYC_00004	01/28/23	07/28/22	50/50 MeOH/Water, Lot EB679	100 mL	MSV_VCYC_STK_00008	2.787 mL	Cyclohexanone	6250.4 ug/mL
.MSV_VCYC_STK_00008	01/28/23	07/28/22	50/50 MeOH/Water, Lot EB679	10 mL	MSV_CYC_00007	2.2427 g	Cyclohexanone	224270 ug/mL
..MSV_CYC_00007	05/31/23		Chem Service, Lot 12628400		(Purchased Reagent)		Cyclohexanone	1 g/g
MSV_CCV_EE_00003	11/20/22	05/20/22	Methanol, Lot EB679	100 mL	MSV_EE_MISCSK_00010	1.73 mL	Ethyl ether	1000.29 ug/mL
.MSV_EE_MISCSK_00010	11/20/22	05/20/22	Methanol, Lot EB679	10 mL	MSV_EE_Neat_00007	0.5782 g	Ethyl ether	57820 ug/mL
..MSV_EE_Neat_00007	12/31/25		Chem Service, Lot 12123300		(Purchased Reagent)		Ethyl ether	1 g/g
MSV_CCV_ETOH_00003	04/11/23	10/11/22	Methanol, Lot EB679	200 mL	MSV_VETOH_STK_00011	8.612 mL	Ethanol	12500.3 ug/mL
.MSV_VETOH_STK_00011	04/11/23	10/11/22	Methanol, Lot EB679	10 mL	MSV_EtOH_00034	2.903 g	Ethanol	290300 ug/mL
..MSV_EtOH_00034	08/30/25		Chem Service, Lot 13347300		(Purchased Reagent)		Ethanol	1 g/g
MSV_CCV_GASES_00292	11/03/22		Restek, Lot A0184815		(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_00320	12/05/22		Restek, Lot A0184815		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_CCV_LKB_00002	12/29/22	08/09/22	Methanol, Lot EB679	50 mL	MSV_V234TCB_S_00006	0.981 mL	2,3,4-Trichlorobutene	999.995 ug/mL
					MSV_V34D1B_SK_00008	0.553 mL	3,4-Dichloro-1-butene	999.271 ug/mL
					MSV_Vc14d_STK_00007	2.139 mL	cis-1,4-Dichloro-2-butene	999.769 ug/mL
.MSV_V234TCB_S_00006	12/29/22	08/09/22	Methanol, Lot DZ644	10 mL	MSV_2,3,4TCB_00006	0.5528 g	2,3,4-Trichlorobutene	50968.2 ug/mL
..MSV_2,3,4TCB_00006	01/31/24		Chem Service, Lot 11793200		(Purchased Reagent)		2,3,4-Trichlorobutene	0.922 g/g
.MSV_V34D1B_SK_00008	12/29/22	08/09/22	Methanol, Lot EB679	10 mL	MSV_3,4DC1Be_00002	0.9035 g	3,4-Dichloro-1-butene	90350 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..MSV_3,4DC1Be_00002	12/29/22		TCI, Lot 6432K		(Purchased Reagent)		3,4-Dichloro-1-butene	1 g/g
.MSV_Vc14d_STK_00007	12/29/22	08/09/22	Methanol, Lot EB679	10 mL	MSV_c14dcb_Nt_00003	0.246 g	cis-1,4-Dichloro-2-butene	23370 ug/mL
..MSV_c14dcb_Nt_00003	08/11/25		Aldrich, Lot SHBH4584V		(Purchased Reagent)		cis-1,4-Dichloro-2-butene	0.95 g/g
MSV_CCV_Penta_00025	11/13/22	10/13/22	Methanol, Lot EB679	1 mL	MSV_V_PentaCL_00025	200 uL	Pentachloroethane	1000 ug/mL
.MSV_V_PentaCL_00025	11/12/22		Restek, Lot A0171341		(Purchased Reagent)		Pentachloroethane	5000 ug/mL
MSV_CCV_V5ACE_00016	10/31/22	10/08/22	Methanol, Lot EB679	10 mL	MSV_AcetatesV_00014	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_00014	10/31/22		Restek, Lot A0171524		(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_00094	11/22/22	10/23/22	Methanol, Lot EB679	5 mL	MSV_MegaMIX#1_00094	1 mL	1,1,1,2-Tetrachloroethane	1000 ug/mL
							1,1,1-Trichloroethane	1000 ug/mL
							1,1,2,2-Tetrachloroethane	1000 ug/mL
							1,1,2-Trichloroethane	1000 ug/mL
							1,1-Dichloroethane	1000 ug/mL
							1,1-Dichloroethene	1000 ug/mL
							1,1-Dichloropropene	1000 ug/mL
							1,2,3-Trichlorobenzene	1000 ug/mL
							1,2,3-Trichloropropane	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2,4-Trimethylbenzene	1000 ug/mL
							1,2-Dibromo-3-Chloropropane	1000 ug/mL
							1,2-Dibromoethane	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
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chlorobromomethane	1000 ug/mL
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL
							Dibromomethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Isopropylbenzene	1000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methylene Chloride	1000 ug/mL
							n-Butylbenzene	1000 ug/mL
							N-Propylbenzene	1000 ug/mL
							Naphthalene	1000 ug/mL
							o-Xylene	1000 ug/mL
							sec-Butylbenzene	1000 ug/mL
							Styrene	1000 ug/mL
							tert-Butylbenzene	1000 ug/mL
							Tetrachloroethene	1000 ug/mL
							Toluene	1000 ug/mL
							trans-1,2-Dichloroethene	1000 ug/mL
							trans-1,3-Dichloropropene	1000 ug/mL
							Trichloroethene	1000 ug/mL
					MSV_MegaMix#2_00091	1 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
							Freon 113	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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methyl tertiary 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_00094	11/22/22		Restek, Lot A0171634		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	5000 ug/mL
							1,1,1-Trichloroethane	5000 ug/mL
							1,1,2,2-Tetrachloroethane	5000 ug/mL
							1,1,2-Trichloroethane	5000 ug/mL
							1,1-Dichloroethane	5000 ug/mL
							1,1-Dichloroethene	5000 ug/mL
							1,1-Dichloropropene	5000 ug/mL
							1,2,3-Trichlorobenzene	5000 ug/mL
							1,2,3-Trichloropropane	5000 ug/mL
							1,2,4-Trichlorobenzene	5000 ug/mL
							1,2,4-Trimethylbenzene	5000 ug/mL
							1,2-Dibromo-3-Chloropropane	5000 ug/mL
							1,2-Dibromoethane	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
							Bromodichloromethane	5000 ug/mL
							Bromoform	5000 ug/mL
							Carbon tetrachloride	5000 ug/mL
							Chlorobenzene	5000 ug/mL
							Chlorobromomethane	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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethylbenzene	5000 ug/mL
							Hexachlorobutadiene	5000 ug/mL
							Isopropylbenzene	5000 ug/mL
							m-Xylene & p-Xylene	10000 ug/mL
							Methylene Chloride	5000 ug/mL
							n-Butylbenzene	5000 ug/mL
							N-Propylbenzene	5000 ug/mL
							Naphthalene	5000 ug/mL
							o-Xylene	5000 ug/mL
							sec-Butylbenzene	5000 ug/mL
							Styrene	5000 ug/mL
							tert-Butylbenzene	5000 ug/mL
							Tetrachloroethene	5000 ug/mL
							Toluene	5000 ug/mL
							trans-1,2-Dichloroethene	5000 ug/mL
							trans-1,3-Dichloropropene	5000 ug/mL
							Trichloroethene	5000 ug/mL
.MSV_MegaMix#2_00091	11/22/22		Restek, Lot A0173454		(Purchased Reagent)		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
							Freon 113	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 tertiary 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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00099	12/27/22	11/27/22	Methanol, Lot EB679	5 mL	MSV_MegaMIX#1_00099	1 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
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2,4-Trimethylbenzene	1000 ug/mL
							1,2-Dibromo-3-Chloropropane	1000 ug/mL
							1,2-Dibromoethane	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
							1,4-Dichlorobenzene	1000 ug/mL
							Benzene	1000 ug/mL
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Isopropylbenzene	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_00096	1 mL	Carbon disulfide	1000 ug/mL
							Cyclohexane	1000 ug/mL
							Freon 113	1000 ug/mL
							Methyl acetate	1000 ug/mL
							Methyl tertiary butyl ether	1000 ug/mL
							Methylcyclohexane	1000 ug/mL
.MSV_MegaMIX#1_00099	12/27/22		Restek, Lot A0184527		(Purchased Reagent)		1,1,1-Trichloroethane	5000 ug/mL
							1,1,2,2-Tetrachloroethane	5000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2-Trichloroethane	5000 ug/mL
							1,1-Dichloroethane	5000 ug/mL
							1,1-Dichloroethene	5000 ug/mL
							1,2,4-Trichlorobenzene	5000 ug/mL
							1,2,4-Trimethylbenzene	5000 ug/mL
							1,2-Dibromo-3-Chloropropane	5000 ug/mL
							1,2-Dibromoethane	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
							1,4-Dichlorobenzene	5000 ug/mL
							Benzene	5000 ug/mL
							Bromodichloromethane	5000 ug/mL
							Bromoform	5000 ug/mL
							Carbon tetrachloride	5000 ug/mL
							Chlorobenzene	5000 ug/mL
							Chloroform	5000 ug/mL
							cis-1,2-Dichloroethene	5000 ug/mL
							cis-1,3-Dichloropropene	5000 ug/mL
							Dibromochloromethane	5000 ug/mL
							Ethylbenzene	5000 ug/mL
							Isopropylbenzene	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_00096	12/27/22	Restek, Lot A0173454			(Purchased Reagent)		Carbon disulfide	5000 ug/mL
							Cyclohexane	5000 ug/mL
							Freon 113	5000 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tertiary butyl ether	5000 ug/mL
							Methylcyclohexane	5000 ug/mL
MSV_CCV_VOC#3_00094	11/10/22	10/23/22	Methanol, Lot EB679	5 mL	MSV_CCV_ACR_00006	0.5 mL	Acrolein	12500.2 ug/mL
					MSV_V_Ketones_00089	1 mL	2-Butanone	2500 ug/mL
							2-Hexanone	2500 ug/mL
							4-Methyl-2-pentanone	2500 ug/mL
							Acetone	2500 ug/mL
.MSV_CCV_ACR_00006	11/10/22	09/11/22	Methanol, Lot EB679	10 mL	MSV_VACR_STK_00028	9.232 mL	Acrolein	125002 ug/mL
..MSV_VACR_STK_00028	11/10/22	09/11/22	Methanol, Lot EB679	10 mL	MSV_ACROLEIN_00022	1.4528 g	Acrolein	135401 ug/mL
...MSV_ACROLEIN_00022	02/28/23	Chem Service, Lot 12926800			(Purchased Reagent)		Acrolein	0.932 g/g
.MSV_V_Ketones_00089	01/31/25	Restek, Lot A0180742			(Purchased Reagent)		2-Butanone	12500 ug/mL
							2-Hexanone	12500 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Methyl-2-pentanone	12500 ug/mL
							Acetone	12500 ug/mL
MSV_CCV_VOC#3_00099	12/27/22	11/27/22	Methanol, Lot EB679	5 mL	MSV_V_Ketones_00093	1 mL	2-Butanone	2500 ug/mL
							2-Hexanone	2500 ug/mL
							4-Methyl-2-pentanone	2500 ug/mL
							Acetone	2500 ug/mL
.MSV_V_Ketones_00093	01/31/25		Restek, Lot A0180742		(Purchased Reagent)		2-Butanone	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone	12500 ug/mL
							Acetone	12500 ug/mL
MSV_Cent_IS_O_00007	04/24/23	10/24/22	Methanol, Lot EB679	50 mL	MSV_Cus826_IS_00502	1 mL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5 (IS)	50 ug/mL
							Fluorobenzene (IS)	50 ug/mL
							t-Butyl alcohol-d10 (IS)	250 ug/mL
.MSV_Cus826_IS_00502	04/24/23		Restek, Lot A0184225		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5 (IS)	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
							t-Butyl alcohol-d10 (IS)	12500 ug/mL
MSV_Cent_ISSS_00011	03/12/23	09/12/22	Methanol, Lot EB679	50 mL	MSV_Cus826_IS_00490	1 mL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5 (IS)	50 ug/mL
							Fluorobenzene (IS)	50 ug/mL
							t-Butyl alcohol-d10 (IS)	250 ug/mL
.MSV_Cus826_IS_00490	04/30/25		Restek, Lot A0184225		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5 (IS)	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
							t-Butyl alcohol-d10 (IS)	12500 ug/mL
MSV_Cent_ISSS_00011	03/12/23	09/12/22	Methanol, Lot EB679	50 mL	MSV_8260_SS_00747	1 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.MSV_8260_SS_00747	04/30/27		Restek, Lot A0184230		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
MSV_Cent_ISSS_00013	04/24/23	10/24/22	Methanol, Lot EB679	50 mL	MSV_8260_SS_00775	1 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
					MSV_Cus826_IS_00502	1 mL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5 (IS)	50 ug/mL
							Fluorobenzene (IS)	50 ug/mL
							t-Butyl alcohol-d10 (IS)	250 ug/mL
.MSV_8260_SS_00775	04/24/23		Restek, Lot A0183565		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.MSV_Cus826_IS_00502	04/24/23		Restek, Lot A0184225		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5 (IS)	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
							t-Butyl alcohol-d10 (IS)	12500 ug/mL
MSV_LCS_Gases_00111	10/30/22	10/23/22	Methanol, Lot EB679	25 mL	MSV_QC_2K_GAS_00114	0.5 mL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Dichlorodifluoromethane	40 ug/mL
							Trichlorofluoromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MSV_QC_2K_GAS_00114	10/30/22		Restek, Lot A0172021		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_LCS_Gases_00116	12/04/22	11/27/22	Methanol, Lot EB679	25 mL	MSV_QC_2K_GAS_00119	0.5 mL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Dichlorodifluoromethane	40 ug/mL
							Trichlorofluoromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MSV_QC_2K_GAS_00119	12/04/22		Restek, Lot A0172021		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_LCS_VOC#1_00079	11/22/22	10/23/22	Methanol, Lot EB679	25 mL	MSV_M_MIX1SEC_00095	1 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
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2,4-Trimethylbenzene	40 ug/mL
							1,2-Dibromo-3-Chloropropane	40 ug/mL
							1,2-Dibromoethane	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Dichloroethane	40 ug/mL
							1,2-Dichloropropane	40 ug/mL
							1,3,5-Trimethylbenzene	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							Benzene	40 ug/mL
							Bromodichloromethane	40 ug/mL
							Bromoform	40 ug/mL
							Carbon tetrachloride	40 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							Isopropylbenzene	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_00093	1 mL	Carbon disulfide	40 ug/mL
							Cyclohexane	40 ug/mL
							Freon 113	40 ug/mL
							Methyl acetate	40 ug/mL
							Methyl tertiary butyl ether	40 ug/mL
							Methylcyclohexane	40 ug/mL
					MSV_Q_Ketones_00092	1 mL	2-Butanone	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone	500 ug/mL
							Acetone	500 ug/mL
.MSV_M_MIX1SEC_00095	04/30/25		Restek, Lot A0184354		(Purchased Reagent)		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
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2,4-Trimethylbenzene	1000 ug/mL
							1,2-Dibromo-3-Chloropropane	1000 ug/mL
							1,2-Dibromoethane	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
							1,4-Dichlorobenzene	1000 ug/mL
							Benzene	1000 ug/mL
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethylbenzene	1000 ug/mL
							Isopropylbenzene	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_00093	04/30/25		Restek, Lot A0184412		(Purchased Reagent)		Carbon disulfide	1000 ug/mL
							Cyclohexane	1000 ug/mL
							Freon 113	1000 ug/mL
							Methyl acetate	1000 ug/mL
							Methyl tertiary butyl ether	1000 ug/mL
							Methylcyclohexane	1000 ug/mL
.MSV_Q_Ketones_00092	11/30/24		Restek, Lot A0178490		(Purchased Reagent)		2-Butanone	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone	12500 ug/mL
							Acetone	12500 ug/mL
MSV_LCS_VOC#1_00084	12/27/22	11/27/22	Methanol, Lot EB679	25 mL	MSV_M_MIX1SEC_00101	1 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
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2,4-Trimethylbenzene	40 ug/mL
							1,2-Dibromo-3-Chloropropane	40 ug/mL
							1,2-Dibromoethane	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Dichloroethane	40 ug/mL
							1,2-Dichloropropane	40 ug/mL
							1,3,5-Trimethylbenzene	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							Benzene	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
							Isopropylbenzene	40 ug/mL
							Methylene Chloride	40 ug/mL
							Styrene	40 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00098	1 mL	Carbon disulfide	40 ug/mL
							Cyclohexane	40 ug/mL
							Freon 113	40 ug/mL
							Methyl acetate	40 ug/mL
							Methyl tertiary butyl ether	40 ug/mL
							Methylcyclohexane	40 ug/mL
					MSV_Q_Ketones_00101	1 mL	2-Butanone	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone	500 ug/mL
							Acetone	500 ug/mL
.MSV_M_MIX1SEC_00101	04/30/25	Restek, Lot A0184354			(Purchased Reagent)		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
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2,4-Trimethylbenzene	1000 ug/mL
							1,2-Dibromo-3-Chloropropane	1000 ug/mL
							1,2-Dibromoethane	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
							1,4-Dichlorobenzene	1000 ug/mL
							Benzene	1000 ug/mL
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Isopropylbenzene	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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.MSV_M_MIX2SEC_00098	04/30/25		Restek, Lot A0184412		(Purchased Reagent)		Carbon disulfide	1000 ug/mL
							Cyclohexane	1000 ug/mL
							Freon 113	1000 ug/mL
							Methyl acetate	1000 ug/mL
							Methyl tertiary butyl ether	1000 ug/mL
							Methylcyclohexane	1000 ug/mL
.MSV_Q_Ketones_00101	11/30/24		Restek, Lot A0178490		(Purchased Reagent)		2-Butanone	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone	12500 ug/mL
							Acetone	12500 ug/mL
MSV_V_BFB_00008							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							divinyl benzene	
							Tentatively Identified Compound	
							Total BTEX	
							Total Diethylbenzene	
							Xylenes, Total	
					MSV_VBFB_STK_00008	0.128 mL	BFB	49.8125 ug/mL
.MSV_VBFB_STK_00008	12/27/22	06/27/22	Methanol, Lot EB679	10 mL	MSV_4BFB_NEAT_00008	0.9729 g	BFB	97290 ug/mL
..MSV_4BFB_NEAT_00008	02/28/25		Chem Service, Lot 13233000		(Purchased Reagent)		BFB	1 g/g
MSV_V_SMFreon_00020	11/24/22		Restek, Lot A0172146		(Purchased Reagent)		2-Chloro-1,1,1-Trifluoroethane	2000 ug/mL
							Chlorodifluoromethane	2000 ug/mL
							Chlorotrifluoroethene	2000 ug/mL
MSV_V_VOA2_00163	11/22/22	10/23/22	Methanol, Lot EB679	5 mL	MSV_V#2B_00292	1 mL	1,4-Dioxane	12500 ug/mL
							2-Methyl-2-propanol	5000 ug/mL
							Isobutyl alcohol	12500 ug/mL
							Isopropyl alcohol	5000 ug/mL
							Methacrylonitrile	2500 ug/mL
							n-Butanol	25000 ug/mL
							Propionitrile	5000 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
.MSV_V#2B_00292	04/30/24		Restek, Lot A0184378		(Purchased Reagent)		1,4-Dioxane	62500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropyl alcohol	25000 ug/mL
							Methacrylonitrile	12500 ug/mL
							n-Butanol	125000 ug/mL
							Propionitrile	25000 ug/mL
							trans-1,4-Dichloro-2-butene	12500 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
MSS_FVICV_HCP_00009	03/26/23	09/26/22	MeCl2, Lot 224289	2 mL	MSS_FV8270_IS_00005	40 uL	1,4-Dichlorobenzene-d4	20 ppm
							Acenaphthene-d10	20 ppm
							Naphthalene-d8	20 ppm
							Perylene-d12	20 ppm
							Phenanthrene-d10	20 ppm
							Pyrene-d10 (IS)	20 ppm
.MSS_FV8270_IS_00005	11/30/23		Restek, Lot A0166482		(Purchased Reagent)		1,4-Dichlorobenzene-d4	1000 ug/mL
							Acenaphthene-d10	1000 ug/mL
							Naphthalene-d8	1000 ug/mL
							Perylene-d12	1000 ug/mL
							Phenanthrene-d10	1000 ug/mL
							Pyrene-d10 (IS)	1000 ug/mL
MSS_RV8270_1_00026	11/30/22	11/03/22	MeCl2, Lot 224977	1 mL	MSS_FV8270_1_00030	250 uL	Benzidine	0.375 ppm
							1,3,5-Trinitrobenzene	0.125 ppm
							1,4-Dinitrobenzene	0.125 ppm
							1-Naphthylamine	0.125 ppm
							2-Acetylaminofluorene	0.125 ppm
							2-Naphthylamine	0.125 ppm
							2-Picoline	0.125 ppm
							2-Toluidine	0.125 ppm
							3,3'-Dimethylbenzidine	0.125 ppm
							4,4'-Methylene bis(2-chloroaniline)	0.125 ppm
							4-Aminobiphenyl	0.125 ppm
							4-Nitroquinoline-1-oxide	0.125 ppm
							Dibenz[a,h]acridine	0.125 ppm
							N-Nitro-o-toluidine	0.125 ppm
							N-Nitrosodi-n-butylamine	0.125 ppm
							N-Nitrosodiethylamine	0.125 ppm
							N-Nitrosomethylethylamine	0.125 ppm
							N-Nitrosomorpholine	0.125 ppm
							N-Nitrosopiperidine	0.125 ppm
							N-Nitrosopyrrolidine	0.125 ppm
							p-Dimethylamino azobenzene	0.125 ppm
							p-Phenylene diamine	0.125 ppm
							Pentachloronitrobenzene	0.125 ppm
							Phenacetin	0.125 ppm
							Pronamide	0.125 ppm
							Quinoline	0.125 ppm
							1,4-Naphthoquinone	0.125 ppm
							1-Chloronaphthalene	0.125 ppm
							7,12-Dimethylbenz(a)anthracene	0.125 ppm
							Chlorobenzilate	0.125 ppm
							Dinoseb	0.125 ppm
							Ethyl methanesulfonate	0.125 ppm
							Hexachloropropene	0.125 ppm
							Isodrin	0.125 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isosafrole Peak 1	0.02 ppm
							Isosafrole Peak 2	0.105 ppm
							Methyl methanesulfonate	0.125 ppm
							Pentachlorobenzene	0.125 ppm
							3-Methylcholanthrene	0.125 ppm
							6-Methylchrysene	0.125 ppm
							cis-Diallate	0.0925 ppm
							Dimethoate	0.125 ppm
							Disulfoton	0.125 ppm
							Ethyl Parathion	0.125 ppm
							Methyl parathion	0.125 ppm
							o,o',o''-Triethylphosphorothioate	0.125 ppm
							Phorate	0.125 ppm
							Safrole, Total	0.125 ppm
							Sulfotepp	0.125 ppm
							Thionazin	0.125 ppm
							trans-Diallate	0.0325 ppm
							2,4,6-Tribromophenol (Surr)	0.25 ppm
							2-Fluorobiphenyl (Surr)	0.25 ppm
							2-Fluorophenol (Surr)	0.25 ppm
							Nitrobenzene-d5 (Surr)	0.25 ppm
							p-Terphenyl-d14 (Surr)	0.25 ppm
							Phenol-d5 (Surr)	0.25 ppm
							Dibenz[a,j]acridine	0.125 ppm
							1,1'-Biphenyl	0.125 ppm
							1,2,4,5-Tetrachlorobenzene	0.125 ppm
							1,2,4-Trichlorobenzene	0.125 ppm
							1,2-Dichlorobenzene	0.125 ppm
							1,2-Diphenylhydrazine	0.125 ppm
							1,3-Dichlorobenzene	0.125 ppm
							1,3-Dinitrobenzene	0.125 ppm
							1,4-Dichlorobenzene	0.125 ppm
							1,4-Dioxane	0.125 ppm
							1-Methylnaphthalene	0.125 ppm
							2,2'-oxybis[1-chloropropane]	0.125 ppm
							2,3,4,6-Tetrachlorophenol	0.125 ppm
							2,4,5-Trichlorophenol	0.125 ppm
							2,4,6-Trichlorophenol	0.125 ppm
							2,4-Dichlorophenol	0.125 ppm
							2,4-Dimethylphenol	0.125 ppm
							2,4-Dinitrophenol	1.25 ppm
							2,4-Dinitrotoluene	0.125 ppm
							2,6-Dichlorophenol	0.125 ppm
							2,6-Dinitrotoluene	0.125 ppm
							2-Chloronaphthalene	0.125 ppm
							2-Chlorophenol	0.125 ppm
							2-Methylnaphthalene	0.125 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Methylphenol	0.125 ppm
							2-Nitroaniline	0.125 ppm
							2-Nitrophenol	0.125 ppm
							3-Nitroaniline	0.125 ppm
							4,6-Dinitro-2-methylphenol	0.75 ppm
							4-Bromophenyl phenyl ether	0.125 ppm
							4-Chloro-3-methylphenol	0.125 ppm
							4-Chloroaniline	0.125 ppm
							4-Chlorophenyl phenyl ether	0.125 ppm
							4-Methylphenol	0.125 ppm
							4-Nitroaniline	0.125 ppm
							4-Nitrophenol	0.75 ppm
							Acenaphthene	0.125 ppm
							Acenaphthylene	0.125 ppm
							Acetophenone	0.125 ppm
							Aniline	0.125 ppm
							Anthracene	0.125 ppm
							Benzo[a]anthracene	0.125 ppm
							Benzo[a]pyrene	0.125 ppm
							Benzo[b]fluoranthene	0.125 ppm
							Benzo[g,h,i]perylene	0.125 ppm
							Benzo[k]fluoranthene	0.125 ppm
							Benzyl alcohol	0.125 ppm
							Bis(2-chloroethoxy)methane	0.125 ppm
							Bis(2-chloroethyl)ether	0.125 ppm
							Bis(2-ethylhexyl) phthalate	0.125 ppm
							Butylbenzylphthalate	0.125 ppm
							Carbazole	0.125 ppm
							Chrysene	0.125 ppm
							Di-n-butyl phthalate	0.125 ppm
							Di-n-octyl phthalate	0.125 ppm
							Dibenz(a,h)anthracene	0.125 ppm
							Dibenzofuran	0.125 ppm
							Diethylphthalate	0.125 ppm
							Dimethylphthalate	0.125 ppm
							Fluoranthene	0.125 ppm
							Fluorene	0.125 ppm
							Hexachlorobenzene	0.125 ppm
							Hexachlorobutadiene	0.125 ppm
							Hexachlorocyclopentadiene	0.125 ppm
							Hexachloroethane	0.125 ppm
							Indeno[1,2,3-cd]pyrene	0.125 ppm
							Isophorone	0.125 ppm
							N-Nitrosodi-n-propylamine	0.125 ppm
							N-Nitrosodimethylamine	0.125 ppm
							N-Nitrosodiphenylamine	0.10625 ppm
							Naphthalene	0.125 ppm
							Nitrobenzene	0.125 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pentachlorophenol	0.625 ppm
							Phenanthrene	0.125 ppm
							Phenol	0.125 ppm
							Pyrene	0.125 ppm
							Pyridine	0.25 ppm
							3,3'-Dichlorobenzidine	0.125 ppm
							Alpha-Terpineol	0.125 ppm
							Dimethylformamide	0.125 ppm
							Octachlorostyrene	0.125 ppm
							Phenyl ether	0.125 ppm
							1,4-Dichlorobenzene-d4	5 ppm
							Acenaphthene-d10	5 ppm
							Naphthalene-d8	5 ppm
							Perylene-d12	5 ppm
							Phenanthrene-d10	5 ppm
							Pyrene-d10 (IS)	5 ppm
.MSS_FV8270_1_00030	04/30/23	11/03/22	MeCl2, Lot 224977	2 mL	MSS_FV8270_2_00027	1000 uL	Benzidine	1.5 ppm
							1,3,5-Trinitrobenzene	0.5 ppm
							1,4-Dinitrobenzene	0.5 ppm
							1-Naphthylamine	0.5 ppm
							2-Acetylaminofluorene	0.5 ppm
							2-Naphthylamine	0.5 ppm
							2-Picoline	0.5 ppm
							2-Toluidine	0.5 ppm
							3,3'-Dimethylbenzidine	0.5 ppm
							4,4'-Methylene bis(2-chloroaniline)	0.5 ppm
							4-Aminobiphenyl	0.5 ppm
							4-Nitroquinoline-1-oxide	0.5 ppm
							Dibenz[a,h]acridine	0.5 ppm
							N-Nitro-o-toluidine	0.5 ppm
							N-Nitrosodi-n-butylamine	0.5 ppm
							N-Nitrosodiethylamine	0.5 ppm
							N-Nitrosomethylethylamine	0.5 ppm
							N-Nitrosomorpholine	0.5 ppm
							N-Nitrosopiperidine	0.5 ppm
							N-Nitrosopyrrolidine	0.5 ppm
							p-Dimethylamino azobenzene	0.5 ppm
							p-Phenylene diamine	0.5 ppm
							Pentachloronitrobenzene	0.5 ppm
							Phenacetin	0.5 ppm
							Pronamide	0.5 ppm
							Quinoline	0.5 ppm
							1,4-Naphthoquinone	0.5 ppm
							1-Chloronaphthalene	0.5 ppm
							7,12-Dimethylbenz(a)anthracene	0.5 ppm
							Chlorobenzilate	0.5 ppm
							Dinoseb	0.5 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethyl methanesulfonate	0.5 ppm
							Hexachloropropene	0.5 ppm
							Isodrin	0.5 ppm
							Isosafrole Peak 1	0.08 ppm
							Isosafrole Peak 2	0.42 ppm
							Methyl methanesulfonate	0.5 ppm
							Pentachlorobenzene	0.5 ppm
							3-Methylcholanthrene	0.5 ppm
							6-Methylchrysene	0.5 ppm
							cis-Diallate	0.37 ppm
							Dimethoate	0.5 ppm
							Disulfoton	0.5 ppm
							Ethyl Parathion	0.5 ppm
							Methyl parathion	0.5 ppm
							o,o',o''-Triethylphosphorothioate	0.5 ppm
							Phorate	0.5 ppm
							Safrole, Total	0.5 ppm
							Sulfotepp	0.5 ppm
							Thionazin	0.5 ppm
							trans-Diallate	0.13 ppm
							2,4,6-Tribromophenol (Surr)	1 ppm
							2-Fluorobiphenyl (Surr)	1 ppm
							2-Fluorophenol (Surr)	1 ppm
							Nitrobenzene-d5 (Surr)	1 ppm
							p-Terphenyl-d14 (Surr)	1 ppm
							Phenol-d5 (Surr)	1 ppm
							Dibenz[a,j]acridine	0.5 ppm
							1,1'-Biphenyl	0.5 ppm
							1,2,4,5-Tetrachlorobenzene	0.5 ppm
							1,2,4-Trichlorobenzene	0.5 ppm
							1,2-Dichlorobenzene	0.5 ppm
							1,2-Diphenylhydrazine	0.5 ppm
							1,3-Dichlorobenzene	0.5 ppm
							1,3-Dinitrobenzene	0.5 ppm
							1,4-Dichlorobenzene	0.5 ppm
							1,4-Dioxane	0.5 ppm
							1-Methylnaphthalene	0.5 ppm
							2,2'-oxybis[1-chloropropane]	0.5 ppm
							2,3,4,6-Tetrachlorophenol	0.5 ppm
							2,4,5-Trichlorophenol	0.5 ppm
							2,4,6-Trichlorophenol	0.5 ppm
							2,4-Dichlorophenol	0.5 ppm
							2,4-Dimethylphenol	0.5 ppm
							2,4-Dinitrophenol	5 ppm
							2,4-Dinitrotoluene	0.5 ppm
							2,6-Dichlorophenol	0.5 ppm
							2,6-Dinitrotoluene	0.5 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Chloronaphthalene	0.5 ppm
							2-Chlorophenol	0.5 ppm
							2-Methylnaphthalene	0.5 ppm
							2-Methylphenol	0.5 ppm
							2-Nitroaniline	0.5 ppm
							2-Nitrophenol	0.5 ppm
							3-Nitroaniline	0.5 ppm
							4,6-Dinitro-2-methylphenol	3 ppm
							4-Bromophenyl phenyl ether	0.5 ppm
							4-Chloro-3-methylphenol	0.5 ppm
							4-Chloroaniline	0.5 ppm
							4-Chlorophenyl phenyl ether	0.5 ppm
							4-Methylphenol	0.5 ppm
							4-Nitroaniline	0.5 ppm
							4-Nitrophenol	3 ppm
							Acenaphthene	0.5 ppm
							Acenaphthylene	0.5 ppm
							Acetophenone	0.5 ppm
							Aniline	0.5 ppm
							Anthracene	0.5 ppm
							Benzo[a]anthracene	0.5 ppm
							Benzo[a]pyrene	0.5 ppm
							Benzo[b]fluoranthene	0.5 ppm
							Benzo[g,h,i]perylene	0.5 ppm
							Benzo[k]fluoranthene	0.5 ppm
							Benzyl alcohol	0.5 ppm
							Bis(2-chloroethoxy)methane	0.5 ppm
							Bis(2-chloroethyl)ether	0.5 ppm
							Bis(2-ethylhexyl) phthalate	0.5 ppm
							Butylbenzylphthalate	0.5 ppm
							Carbazole	0.5 ppm
							Chrysene	0.5 ppm
							Di-n-butyl phthalate	0.5 ppm
							Di-n-octyl phthalate	0.5 ppm
							Dibenz(a,h)anthracene	0.5 ppm
							Dibenzofuran	0.5 ppm
							Diethylphthalate	0.5 ppm
							Dimethylphthalate	0.5 ppm
							Fluoranthene	0.5 ppm
							Fluorene	0.5 ppm
							Hexachlorobenzene	0.5 ppm
							Hexachlorobutadiene	0.5 ppm
							Hexachlorocyclopentadiene	0.5 ppm
							Hexachloroethane	0.5 ppm
							Indeno[1,2,3-cd]pyrene	0.5 ppm
							Isophorone	0.5 ppm
							N-Nitrosodi-n-propylamine	0.5 ppm
							N-Nitrosodimethylamine	0.5 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosodiphenylamine	0.425 ppm
							Naphthalene	0.5 ppm
							Nitrobenzene	0.5 ppm
							Pentachlorophenol	2.5 ppm
							Phenanthrene	0.5 ppm
							Phenol	0.5 ppm
							Pyrene	0.5 ppm
							Pyridine	1 ppm
							3,3'-Dichlorobenzidine	0.5 ppm
							Alpha-Terpineol	0.5 ppm
							Dimethylformamide	0.5 ppm
							Octachlorostyrene	0.5 ppm
							Phenyl ether	0.5 ppm
							1,4-Dichlorobenzene-d4	20 ppm
							Acenaphthene-d10	20 ppm
							Naphthalene-d8	20 ppm
							Perylene-d12	20 ppm
							Phenanthrene-d10	20 ppm
							Pyrene-d10 (IS)	20 ppm
					MSS_FV8270_IS_00005	20 uL	1,4-Dichlorobenzene-d4	20 ppm
							Acenaphthene-d10	20 ppm
							Naphthalene-d8	20 ppm
							Perylene-d12	20 ppm
							Phenanthrene-d10	20 ppm
							Pyrene-d10 (IS)	20 ppm
..MSS_FV8270_2_00027	04/30/23	11/03/22	MeCl2, Lot 224977	5 mL	MSS_8270_APWS_00012	20 uL	Benzidine	3 ppm
							1,3,5-Trinitrobenzene	1 ppm
							1,4-Dinitrobenzene	1 ppm
							1-Naphthylamine	1 ppm
							2-Acetylaminofluorene	1 ppm
							2-Naphthylamine	1 ppm
							2-Picoline	1 ppm
							2-Toluidine	1 ppm
							3,3'-Dimethylbenzidine	1 ppm
							4,4'-Methylene bis(2-chloroaniline)	1 ppm
							4-Aminobiphenyl	1 ppm
							4-Nitroquinoline-1-oxide	1 ppm
							Dibenz[a,h]acridine	1 ppm
							N-Nitro-o-toluidine	1 ppm
							N-Nitrosodi-n-butylamine	1 ppm
							N-Nitrosodiethylamine	1 ppm
							N-Nitrosomethylethylamine	1 ppm
							N-Nitrosomorpholine	1 ppm
							N-Nitrosopiperidine	1 ppm
							N-Nitrosopyrrolidine	1 ppm
							p-Dimethylamino azobenzene	1 ppm
							p-Phenylene diamine	1 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pentachloronitrobenzene	1 ppm
							Phenacetin	1 ppm
							Pronamide	1 ppm
							Quinoline	1 ppm
							1,4-Naphthoquinone	1 ppm
							1-Chloronaphthalene	1 ppm
							7,12-Dimethylbenz(a)anthracene	1 ppm
							Chlorobenzilate	1 ppm
							Dinoseb	1 ppm
							Ethyl methanesulfonate	1 ppm
							Hexachloropropene	1 ppm
							Isodrin	1 ppm
							Isosafrole Peak 1	0.16 ppm
							Isosafrole Peak 2	0.84 ppm
							Methyl methanesulfonate	1 ppm
							Pentachlorobenzene	1 ppm
							3-Methylcholanthrene	1 ppm
							6-Methylchrysene	1 ppm
							cis-Diallate	0.74 ppm
							Dimethoate	1 ppm
							Disulfoton	1 ppm
							Ethyl Parathion	1 ppm
							Methyl parathion	1 ppm
							o,o',o''-Triethylphosphorothioate	1 ppm
							Phorate	1 ppm
							Safrole, Total	1 ppm
							Sulfotepp	1 ppm
							Thionazin	1 ppm
							trans-Diallate	0.26 ppm
					MSS_8270_WS_00013	20 uL	2,4,6-Tribromophenol (Surr)	2 ppm
							2-Fluorobiphenyl (Surr)	2 ppm
							2-Fluorophenol (Surr)	2 ppm
							Nitrobenzene-d5 (Surr)	2 ppm
							p-Terphenyl-d14 (Surr)	2 ppm
							Phenol-d5 (Surr)	2 ppm
							Dibenz[a,j]acridine	1 ppm
							1,1'-Biphenyl	1 ppm
							1,2,4,5-Tetrachlorobenzene	1 ppm
							1,2,4-Trichlorobenzene	1 ppm
							1,2-Dichlorobenzene	1 ppm
							1,2-Diphenylhydrazine	1 ppm
							1,3-Dichlorobenzene	1 ppm
							1,3-Dinitrobenzene	1 ppm
							1,4-Dichlorobenzene	1 ppm
							1,4-Dioxane	1 ppm
							1-Methylnaphthalene	1 ppm
							2,2'-oxybis[1-chloropropane]	1 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,3,4,6-Tetrachlorophenol	1 ppm
							2,4,5-Trichlorophenol	1 ppm
							2,4,6-Trichlorophenol	1 ppm
							2,4-Dichlorophenol	1 ppm
							2,4-Dimethylphenol	1 ppm
							2,4-Dinitrophenol	10 ppm
							2,4-Dinitrotoluene	1 ppm
							2,6-Dichlorophenol	1 ppm
							2,6-Dinitrotoluene	1 ppm
							2-Chloronaphthalene	1 ppm
							2-Chlorophenol	1 ppm
							2-Methylnaphthalene	1 ppm
							2-Methylphenol	1 ppm
							2-Nitroaniline	1 ppm
							2-Nitrophenol	1 ppm
							3-Nitroaniline	1 ppm
							4,6-Dinitro-2-methylphenol	6 ppm
							4-Bromophenyl phenyl ether	1 ppm
							4-Chloro-3-methylphenol	1 ppm
							4-Chloroaniline	1 ppm
							4-Chlorophenyl phenyl ether	1 ppm
							4-Methylphenol	1 ppm
							4-Nitroaniline	1 ppm
							4-Nitrophenol	6 ppm
							Acenaphthene	1 ppm
							Acenaphthylene	1 ppm
							Acetophenone	1 ppm
							Aniline	1 ppm
							Anthracene	1 ppm
							Benzo[a]anthracene	1 ppm
							Benzo[a]pyrene	1 ppm
							Benzo[b]fluoranthene	1 ppm
							Benzo[g,h,i]perylene	1 ppm
							Benzo[k]fluoranthene	1 ppm
							Benzyl alcohol	1 ppm
							Bis(2-chloroethoxy)methane	1 ppm
							Bis(2-chloroethyl)ether	1 ppm
							Bis(2-ethylhexyl) phthalate	1 ppm
							Butylbenzylphthalate	1 ppm
							Carbazole	1 ppm
							Chrysene	1 ppm
							Di-n-butyl phthalate	1 ppm
							Di-n-octyl phthalate	1 ppm
							Dibenz(a,h)anthracene	1 ppm
							Dibenzofuran	1 ppm
							Diethylphthalate	1 ppm
							Dimethylphthalate	1 ppm
							Fluoranthene	1 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluorene	1 ppm
							Hexachlorobenzene	1 ppm
							Hexachlorobutadiene	1 ppm
							Hexachlorocyclopentadiene	1 ppm
							Hexachloroethane	1 ppm
							Indeno[1,2,3-cd]pyrene	1 ppm
							Isophorone	1 ppm
							N-Nitrosodi-n-propylamine	1 ppm
							N-Nitrosodimethylamine	1 ppm
							N-Nitrosodiphenylamine	0.85 ppm
							Naphthalene	1 ppm
							Nitrobenzene	1 ppm
							Pentachlorophenol	5 ppm
							Phenanthrene	1 ppm
							Phenol	1 ppm
							Pyrene	1 ppm
							Pyridine	2 ppm
							3,3'-Dichlorobenzidine	1 ppm
							Benzidine	3 ppm
							Alpha-Terpineol	1 ppm
							Dimethylformamide	1 ppm
							Octachlorostyrene	1 ppm
							Phenyl ether	1 ppm
					MSS_AB_24DNP_00008	40 uL	2,4-Dinitrophenol	10 ppm
					MSS_AB_46D2MP_00005	20 uL	4,6-Dinitro-2-methylphenol	6 ppm
					MSS_AB_4NP_00005	20 uL	4-Nitrophenol	6 ppm
					MSS_AB_PCP_00005	15 uL	Pentachlorophenol	5 ppm
					MSS_FV8270_IS_00005	100 uL	1,4-Dichlorobenzene-d4	20 ppm
							Acenaphthene-d10	20 ppm
							Naphthalene-d8	20 ppm
							Perylene-d12	20 ppm
							Phenanthrene-d10	20 ppm
							Pyrene-d10 (IS)	20 ppm
...MSS_8270_APWS_00012	04/30/23	11/03/22	MeCl2, Lot 224977	10 mL	MSS_AB_BZIDIN_00011	1000 uL	Benzidine	500 ppm
					OP_RES_APPX1_00008	2500 uL	1,3,5-Trinitrobenzene	250 ppm
							1,4-Dinitrobenzene	250 ppm
							1-Naphthylamine	250 ppm
							2-Acetylaminofluorene	250 ppm
							2-Naphthylamine	250 ppm
							2-Picoline	250 ppm
							2-Toluidine	250 ppm
							3,3'-Dimethylbenzidine	250 ppm
							4,4'-Methylene bis(2-chloroaniline)	250 ppm
							4-Aminobiphenyl	250 ppm
							4-Nitroquinoline-1-oxide	250 ppm
							Dibenz[a,h]acridine	250 ppm
							N-Nitro-o-toluidine	250 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosodi-n-butylamine	250 ppm
							N-Nitrosodiethylamine	250 ppm
							N-Nitrosomethylethylamine	250 ppm
							N-Nitrosomorpholine	250 ppm
							N-Nitrosopiperidine	250 ppm
							N-Nitrosopyrrolidine	250 ppm
							p-Dimethylamino azobenzene	250 ppm
							p-Phenylene diamine	250 ppm
							Pentachloronitrobenzene	250 ppm
							Phenacetin	250 ppm
							Pronamide	250 ppm
							Quinoline	250 ppm
					OP_RES_APPX2_00009	2500 uL	1,4-Naphthoquinone	250 ppm
							1-Chloronaphthalene	250 ppm
							7,12-Dimethylbenz(a)anthracene	250 ppm
							Chlorobenzilate	250 ppm
							Dinoseb	250 ppm
							Ethyl methanesulfonate	250 ppm
							Hexachloropropene	250 ppm
							Isodrin	250 ppm
							Isosafrole Peak 1	40 ppm
							Isosafrole Peak 2	210 ppm
							Methyl methanesulfonate	250 ppm
							Pentachlorobenzene	250 ppm
					OP_RES_APPX3_00006	1250 uL	3-Methylcholanthrene	250 ppm
							6-Methylchrysene	250 ppm
					OP_RES_APPX4_00007	2500 uL	cis-Diallate	185 ppm
							Dimethoate	250 ppm
							Disulfoton	250 ppm
							Ethyl Parathion	250 ppm
							Methyl parathion	250 ppm
							o,o',o''-Triethylphosphorothioate	250 ppm
							Phorate	250 ppm
							Safrole, Total	250 ppm
							Sulfotepp	250 ppm
							Thionazin	250 ppm
							trans-Diallate	65 ppm
....MSS_AB_BZIDIN_00011	12/06/24		Absolute, Lot 102722		(Purchased Reagent)		Benzidine	5000 ug/mL
....OP_RES_APPX1_00008	07/31/23		Restek, Lot A0187679		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,4-Dinitrobenzene	1000 ug/mL
							1-Naphthylamine	1000 ug/mL
							2-Acetylaminofluorene	1000 ug/mL
							2-Naphthylamine	1000 ug/mL
							2-Picoline	1000 ug/mL
							2-Toluidine	1000 ug/mL
							3,3'-Dimethylbenzidine	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4,4'-Methylene bis(2-chloroaniline)	1000 ug/mL
							4-Aminobiphenyl	1000 ug/mL
							4-Nitroquinoline-1-oxide	1000 ug/mL
							Dibenz[a,h]acridine	1000 ug/mL
							N-Nitro-o-toluidine	1000 ug/mL
							N-Nitrosodi-n-butylamine	1000 ug/mL
							N-Nitrosodiethylamine	1000 ug/mL
							N-Nitrosomethylethylamine	1000 ug/mL
							N-Nitrosomorpholine	1000 ug/mL
							N-Nitrosopiperidine	1000 ug/mL
							N-Nitrosopyrrolidine	1000 ug/mL
							p-Dimethylamino azobenzene	1000 ug/mL
							p-Phenylene diamine	1000 ug/mL
							Pentachloronitrobenzene	1000 ug/mL
							Phenacetin	1000 ug/mL
							Pronamide	1000 ug/mL
							Quinoline	1000 ug/mL
....OP_RES_APPX2_00009	05/31/23		Restek, Lot A0185039		(Purchased Reagent)		1,4-Naphthoquinone	1000 ug/mL
							1-Chloronaphthalene	1000 ug/mL
							7,12-Dimethylbenz(a)anthracene	1000 ug/mL
							Chlorobenzilate	1000 ug/mL
							Dinoseb	1000 ug/mL
							Ethyl methanesulfonate	1000 ug/mL
							Hexachloropropene	1000 ug/mL
							Isodrin	1000 ug/mL
							Isosafrole Peak 1	160 ug/mL
							Isosafrole Peak 2	840 ug/mL
							Methyl methanesulfonate	1000 ug/mL
							Pentachlorobenzene	1000 ug/mL
....OP_RES_APPX3_00006	04/30/23		Restek, Lot A0184674		(Purchased Reagent)		3-Methylcholanthrene	2000 ug/mL
							6-Methylchrysene	2000 ug/mL
....OP_RES_APPX4_00007	01/31/24		Restek, Lot A0180903		(Purchased Reagent)		cis-Diallate	740 ug/mL
							Dimethoate	1000 ug/mL
							Disulfoton	1000 ug/mL
							Ethyl Parathion	1000 ug/mL
							Methyl parathion	1000 ug/mL
							o,o',o''-Triethylphosphorothioate	1000 ug/mL
							Phorate	1000 ug/mL
							Safrole, Total	1000 ug/mL
							Sulfotepp	1000 ug/mL
							Thionazin	1000 ug/mL
							trans-Diallate	260 ug/mL
...MSS_8270_WS_00013	05/03/23	11/03/22	MeCl2, Lot 224977	10 mL	MSS_8270_SURR_00004	1250 uL	2,4,6-Tribromophenol (Surr)	500 ppm
							2-Fluorobiphenyl (Surr)	500 ppm
							2-Fluorophenol (Surr)	500 ppm
							Nitrobenzene-d5 (Surr)	500 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							p-Terphenyl-d14 (Surr)	500 ppm
							Phenol-d5 (Surr)	500 ppm
					OP_RES_APPX6_00004	1250 uL	Dibenz[a,j]acridine	250 ppm
					OP_RES_LCS1_00008	2500 uL	1,1'-Biphenyl	250 ppm
							1,2,4,5-Tetrachlorobenzene	250 ppm
							1,2,4-Trichlorobenzene	250 ppm
							1,2-Dichlorobenzene	250 ppm
							1,2-Diphenylhydrazine	250 ppm
							1,3-Dichlorobenzene	250 ppm
							1,3-Dinitrobenzene	250 ppm
							1,4-Dichlorobenzene	250 ppm
							1,4-Dioxane	250 ppm
							1-Methylnaphthalene	250 ppm
							2,2'-oxybis[1-chloropropane]	250 ppm
							2,3,4,6-Tetrachlorophenol	250 ppm
							2,4,5-Trichlorophenol	250 ppm
							2,4,6-Trichlorophenol	250 ppm
							2,4-Dichlorophenol	250 ppm
							2,4-Dimethylphenol	250 ppm
							2,4-Dinitrophenol	500 ppm
							2,4-Dinitrotoluene	250 ppm
							2,6-Dichlorophenol	250 ppm
							2,6-Dinitrotoluene	250 ppm
							2-Chloronaphthalene	250 ppm
							2-Chlorophenol	250 ppm
							2-Methylnaphthalene	250 ppm
							2-Methylphenol	250 ppm
							2-Nitroaniline	250 ppm
							2-Nitrophenol	250 ppm
							3-Nitroaniline	250 ppm
							4,6-Dinitro-2-methylphenol	500 ppm
							4-Bromophenyl phenyl ether	250 ppm
							4-Chloro-3-methylphenol	250 ppm
							4-Chloroaniline	250 ppm
							4-Chlorophenyl phenyl ether	250 ppm
							4-Methylphenol	250 ppm
							4-Nitroaniline	250 ppm
							4-Nitrophenol	500 ppm
							Acenaphthene	250 ppm
							Acenaphthylene	250 ppm
							Acetophenone	250 ppm
							Aniline	250 ppm
							Anthracene	250 ppm
							Benzo[a]anthracene	250 ppm
							Benzo[a]pyrene	250 ppm
							Benzo[b]fluoranthene	250 ppm
							Benzo[g,h,i]perylene	250 ppm
							Benzo[k]fluoranthene	250 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzyl alcohol	250 ppm
							Bis(2-chloroethoxy)methane	250 ppm
							Bis(2-chloroethyl)ether	250 ppm
							Bis(2-ethylhexyl) phthalate	250 ppm
							Butylbenzylphthalate	250 ppm
							Carbazole	250 ppm
							Chrysene	250 ppm
							Di-n-butyl phthalate	250 ppm
							Di-n-octyl phthalate	250 ppm
							Dibenz(a,h)anthracene	250 ppm
							Dibenzofuran	250 ppm
							Diethylphthalate	250 ppm
							Dimethylphthalate	250 ppm
							Fluoranthene	250 ppm
							Fluorene	250 ppm
							Hexachlorobenzene	250 ppm
							Hexachlorobutadiene	250 ppm
							Hexachlorocyclopentadiene	250 ppm
							Hexachloroethane	250 ppm
							Indeno[1,2,3-cd]pyrene	250 ppm
							Isophorone	250 ppm
							N-Nitrosodi-n-propylamine	250 ppm
							N-Nitrosodimethylamine	250 ppm
							N-Nitrosodiphenylamine	212.5 ppm
							Naphthalene	250 ppm
							Nitrobenzene	250 ppm
							Pentachlorophenol	500 ppm
							Phenanthrene	250 ppm
							Phenol	250 ppm
							Pyrene	250 ppm
							Pyridine	500 ppm
					OP_RES_LCS2_00008	1250 uL	3,3'-Dichlorobenzidine	250 ppm
							Benzidine	250 ppm
					OP_RES_LCSadd_00001	1250 uL	Alpha-Terpineol	250 ppm
							Dimethylformamide	250 ppm
							Octachlorostyrene	250 ppm
							Phenyl ether	250 ppm
....MSS_8270_SURR_00004	10/31/23	Sigma- Aldrich, Lot LRAC8467			(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	4000 ug/mL
							2-Fluorobiphenyl (Surr)	4000 ug/mL
							2-Fluorophenol (Surr)	4000 ug/mL
							Nitrobenzene-d5 (Surr)	4000 ug/mL
							p-Terphenyl-d14 (Surr)	4000 ug/mL
							Phenol-d5 (Surr)	4000 ug/mL
....OP_RES_APPX6_00004	08/31/24	Restek, Lot A0175669			(Purchased Reagent)		Dibenz[a,j]acridine	2000 ug/mL
....OP_RES_LCS1_00008	06/30/23	Restek, Lot A0179662			(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butylbenzylphthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethylphthalate	1000 ug/mL
							Dimethylphthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	850 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
....OP_RES_LCS2_00008	07/31/23		Restek, Lot A0181121		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
....OP_RES_LCSadd_00001	12/31/23		Restek, Lot A0166837		(Purchased Reagent)		Alpha-Terpineol	2000 ug/mL
							Dimethylformamide	2000 ug/mL
							Octachlorostyrene	2000 ug/mL
							Phenyl ether	2000 ug/mL
...MSS_AB_24DNP_00008	09/21/23		Absolute, Lot 120920		(Purchased Reagent)		2,4-Dinitrophenol	1000 ug/mL
...MSS_AB_46D2MP_00005	09/21/23		Absolute, Lot 111924		(Purchased Reagent)		4,6-Dinitro-2-methylphenol	1000 ug/mL
...MSS_AB_4NP_00005	09/21/23		Absolute, Lot 072418		(Purchased Reagent)		4-Nitrophenol	1000 ug/mL
...MSS_AB_PCP_00005	09/21/23		Absolute, Lot 062222		(Purchased Reagent)		Pentachlorophenol	1000 ug/mL
...MSS_FV8270_IS_00005	11/30/23		Restek, Lot A0166482		(Purchased Reagent)		1,4-Dichlorobenzene-d4	1000 ug/mL
							Acenaphthene-d10	1000 ug/mL
							Naphthalene-d8	1000 ug/mL
							Perylene-d12	1000 ug/mL
							Phenanthrene-d10	1000 ug/mL
							Pyrene-d10 (IS)	1000 ug/mL
							1,4-Dichlorobenzene-d4	1000 ug/mL
							Acenaphthene-d10	1000 ug/mL
							Naphthalene-d8	1000 ug/mL
							Perylene-d12	1000 ug/mL
							Phenanthrene-d10	1000 ug/mL
							Pyrene-d10 (IS)	1000 ug/mL
MSS_RV8270_2_00027	11/30/22	11/03/22	MeCl2, Lot 224977	3 mL	MSS_BAS_WS_00006	7.5 uL	Atrazine	0.25 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzaldehyde	0.25 ppm
							Caprolactam	0.25 ppm
					MSS_FV8270_2_00027	750 uL	Benzidine	0.75 ppm
							1,3,5-Trinitrobenzene	0.25 ppm
							1,4-Dinitrobenzene	0.25 ppm
							1-Naphthylamine	0.25 ppm
							2-Acetylaminofluorene	0.25 ppm
							2-Naphthylamine	0.25 ppm
							2-Picoline	0.25 ppm
							2-Toluidine	0.25 ppm
							3,3'-Dimethylbenzidine	0.25 ppm
							4,4'-Methylene bis(2-chloroaniline)	0.25 ppm
							4-Aminobiphenyl	0.25 ppm
							4-Nitroquinoline-1-oxide	0.25 ppm
							Dibenz[a,h]acridine	0.25 ppm
							N-Nitro-o-toluidine	0.25 ppm
							N-Nitrosodi-n-butylamine	0.25 ppm
							N-Nitrosodiethylamine	0.25 ppm
							N-Nitrosomethylethylamine	0.25 ppm
							N-Nitrosomorpholine	0.25 ppm
							N-Nitrosopiperidine	0.25 ppm
							N-Nitrosopyrrolidine	0.25 ppm
							p-Dimethylamino azobenzene	0.25 ppm
							p-Phenylene diamine	0.25 ppm
							Pentachloronitrobenzene	0.25 ppm
							Phenacetin	0.25 ppm
							Pronamide	0.25 ppm
							Quinoline	0.25 ppm
							1,4-Naphthoquinone	0.25 ppm
							1-Chloronaphthalene	0.25 ppm
							7,12-Dimethylbenz(a)anthracene	0.25 ppm
							Chlorobenzilate	0.25 ppm
							Dinoseb	0.25 ppm
							Ethyl methanesulfonate	0.25 ppm
							Hexachloropropene	0.25 ppm
							Isodrin	0.25 ppm
							Isosafrole Peak 1	0.04 ppm
							Isosafrole Peak 2	0.21 ppm
							Methyl methanesulfonate	0.25 ppm
							Pentachlorobenzene	0.25 ppm
							3-Methylcholanthrene	0.25 ppm
							6-Methylchrysene	0.25 ppm
							cis-Diallate	0.185 ppm
							Dimethoate	0.25 ppm
							Disulfoton	0.25 ppm
							Ethyl Parathion	0.25 ppm
							Methyl parathion	0.25 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							o,o',o''-Triethylphosphorothioate	0.25 ppm
							Phorate	0.25 ppm
							Safrole, Total	0.25 ppm
							Sulfotepp	0.25 ppm
							Thionazin	0.25 ppm
							trans-Diallate	0.065 ppm
							2,4,6-Tribromophenol (Surr)	0.5 ppm
							2-Fluorobiphenyl (Surr)	0.5 ppm
							2-Fluorophenol (Surr)	0.5 ppm
							Nitrobenzene-d5 (Surr)	0.5 ppm
							p-Terphenyl-d14 (Surr)	0.5 ppm
							Phenol-d5 (Surr)	0.5 ppm
							Dibenz[a,j]acridine	0.25 ppm
							1,1'-Biphenyl	0.25 ppm
							1,2,4,5-Tetrachlorobenzene	0.25 ppm
							1,2,4-Trichlorobenzene	0.25 ppm
							1,2-Dichlorobenzene	0.25 ppm
							1,2-Diphenylhydrazine	0.25 ppm
							1,3-Dichlorobenzene	0.25 ppm
							1,3-Dinitrobenzene	0.25 ppm
							1,4-Dichlorobenzene	0.25 ppm
							1,4-Dioxane	0.25 ppm
							1-Methylnaphthalene	0.25 ppm
							2,2'-oxybis[1-chloropropane]	0.25 ppm
							2,3,4,6-Tetrachlorophenol	0.25 ppm
							2,4,5-Trichlorophenol	0.25 ppm
							2,4,6-Trichlorophenol	0.25 ppm
							2,4-Dichlorophenol	0.25 ppm
							2,4-Dimethylphenol	0.25 ppm
							2,4-Dinitrophenol	2.5 ppm
							2,4-Dinitrotoluene	0.25 ppm
							2,6-Dichlorophenol	0.25 ppm
							2,6-Dinitrotoluene	0.25 ppm
							2-Chloronaphthalene	0.25 ppm
							2-Chlorophenol	0.25 ppm
							2-Methylnaphthalene	0.25 ppm
							2-Methylphenol	0.25 ppm
							2-Nitroaniline	0.25 ppm
							2-Nitrophenol	0.25 ppm
							3-Nitroaniline	0.25 ppm
							4,6-Dinitro-2-methylphenol	1.5 ppm
							4-Bromophenyl phenyl ether	0.25 ppm
							4-Chloro-3-methylphenol	0.25 ppm
							4-Chloroaniline	0.25 ppm
							4-Chlorophenyl phenyl ether	0.25 ppm
							4-Methylphenol	0.25 ppm
							4-Nitroaniline	0.25 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Nitrophenol	1.5 ppm
							Acenaphthene	0.25 ppm
							Acenaphthylene	0.25 ppm
							Acetophenone	0.25 ppm
							Aniline	0.25 ppm
							Anthracene	0.25 ppm
							Benzo[a]anthracene	0.25 ppm
							Benzo[a]pyrene	0.25 ppm
							Benzo[b]fluoranthene	0.25 ppm
							Benzo[g,h,i]perylene	0.25 ppm
							Benzo[k]fluoranthene	0.25 ppm
							Benzyl alcohol	0.25 ppm
							Bis(2-chloroethoxy)methane	0.25 ppm
							Bis(2-chloroethyl)ether	0.25 ppm
							Bis(2-ethylhexyl) phthalate	0.25 ppm
							Butylbenzylphthalate	0.25 ppm
							Carbazole	0.25 ppm
							Chrysene	0.25 ppm
							Di-n-butyl phthalate	0.25 ppm
							Di-n-octyl phthalate	0.25 ppm
							Dibenz(a,h)anthracene	0.25 ppm
							Dibenzofuran	0.25 ppm
							Diethylphthalate	0.25 ppm
							Dimethylphthalate	0.25 ppm
							Fluoranthene	0.25 ppm
							Fluorene	0.25 ppm
							Hexachlorobenzene	0.25 ppm
							Hexachlorobutadiene	0.25 ppm
							Hexachlorocyclopentadiene	0.25 ppm
							Hexachloroethane	0.25 ppm
							Indeno[1,2,3-cd]pyrene	0.25 ppm
							Isophorone	0.25 ppm
							N-Nitrosodi-n-propylamine	0.25 ppm
							N-Nitrosodimethylamine	0.25 ppm
							N-Nitrosodiphenylamine	0.2125 ppm
							Naphthalene	0.25 ppm
							Nitrobenzene	0.25 ppm
							Pentachlorophenol	1.25 ppm
							Phenanthrene	0.25 ppm
							Phenol	0.25 ppm
							Pyrene	0.25 ppm
							Pyridine	0.5 ppm
							3,3'-Dichlorobenzidine	0.25 ppm
							Alpha-Terpineol	0.25 ppm
							Dimethylformamide	0.25 ppm
							Octachlorostyrene	0.25 ppm
							Phenyl ether	0.25 ppm
							1,4-Dichlorobenzene-d4	5 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acenaphthene-d10	5 ppm
							Naphthalene-d8	5 ppm
							Perylene-d12	5 ppm
							Phenanthrene-d10	5 ppm
							Pyrene-d10 (IS)	5 ppm
.MSS_BAS_WS_00006	11/30/22	05/18/22	MeCl2, Lot 217990	5 mL	OP_LCSmix2stk_00004	250 uL	Atrazine	100 ppm
							Benzaldehyde	100 ppm
							Caprolactam	100 ppm
..OP_LCSmix2stk_00004	11/30/22		Restek, Lot A0172244		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
.MSS_FV8270_2_00027	04/30/23	11/03/22	MeCl2, Lot 224977	5 mL	MSS_8270_APWS_00012	20 uL	Benzidine	3 ppm
							1,3,5-Trinitrobenzene	1 ppm
							1,4-Dinitrobenzene	1 ppm
							1-Naphthylamine	1 ppm
							2-Acetylaminofluorene	1 ppm
							2-Naphthylamine	1 ppm
							2-Picoline	1 ppm
							2-Toluidine	1 ppm
							3,3'-Dimethylbenzidine	1 ppm
							4,4'-Methylene bis(2-chloroaniline)	1 ppm
							4-Aminobiphenyl	1 ppm
							4-Nitroquinoline-1-oxide	1 ppm
							Dibenz[a,h]acridine	1 ppm
							N-Nitro-o-toluidine	1 ppm
							N-Nitrosodi-n-butylamine	1 ppm
							N-Nitrosodiethylamine	1 ppm
							N-Nitrosomethylethylamine	1 ppm
							N-Nitrosomorpholine	1 ppm
							N-Nitrosopiperidine	1 ppm
							N-Nitrosopyrrolidine	1 ppm
							p-Dimethylamino azobenzene	1 ppm
							p-Phenylene diamine	1 ppm
							Pentachloronitrobenzene	1 ppm
							Phenacetin	1 ppm
							Pronamide	1 ppm
							Quinoline	1 ppm
							1,4-Naphthoquinone	1 ppm
							1-Chloronaphthalene	1 ppm
							7,12-Dimethylbenz(a)anthracene	1 ppm
							Chlorobenzilate	1 ppm
							Dinoseb	1 ppm
							Ethyl methanesulfonate	1 ppm
							Hexachloropropene	1 ppm
							Isodrin	1 ppm
							Isosafrole Peak 1	0.16 ppm
							Isosafrole Peak 2	0.84 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methyl methanesulfonate	1 ppm
							Pentachlorobenzene	1 ppm
							3-Methylcholanthrene	1 ppm
							6-Methylchrysene	1 ppm
							cis-Diallate	0.74 ppm
							Dimethoate	1 ppm
							Disulfoton	1 ppm
							Ethyl Parathion	1 ppm
							Methyl parathion	1 ppm
							o,o',o''-Triethylphosphorothioate	1 ppm
							Phorate	1 ppm
							Safrole, Total	1 ppm
							Sulfotepp	1 ppm
							Thionazin	1 ppm
							trans-Diallate	0.26 ppm
					MSS_8270_WS_00013	20 uL	2,4,6-Tribromophenol (Surr)	2 ppm
							2-Fluorobiphenyl (Surr)	2 ppm
							2-Fluorophenol (Surr)	2 ppm
							Nitrobenzene-d5 (Surr)	2 ppm
							p-Terphenyl-d14 (Surr)	2 ppm
							Phenol-d5 (Surr)	2 ppm
							Dibenz[a,j]acridine	1 ppm
							1,1'-Biphenyl	1 ppm
							1,2,4,5-Tetrachlorobenzene	1 ppm
							1,2,4-Trichlorobenzene	1 ppm
							1,2-Dichlorobenzene	1 ppm
							1,2-Diphenylhydrazine	1 ppm
							1,3-Dichlorobenzene	1 ppm
							1,3-Dinitrobenzene	1 ppm
							1,4-Dichlorobenzene	1 ppm
							1,4-Dioxane	1 ppm
							1-Methylnaphthalene	1 ppm
							2,2'-oxybis[1-chloropropane]	1 ppm
							2,3,4,6-Tetrachlorophenol	1 ppm
							2,4,5-Trichlorophenol	1 ppm
							2,4,6-Trichlorophenol	1 ppm
							2,4-Dichlorophenol	1 ppm
							2,4-Dimethylphenol	1 ppm
							2,4-Dinitrophenol	10 ppm
							2,4-Dinitrotoluene	1 ppm
							2,6-Dichlorophenol	1 ppm
							2,6-Dinitrotoluene	1 ppm
							2-Chloronaphthalene	1 ppm
							2-Chlorophenol	1 ppm
							2-Methylnaphthalene	1 ppm
							2-Methylphenol	1 ppm
							2-Nitroaniline	1 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Nitrophenol	1 ppm
							3-Nitroaniline	1 ppm
							4,6-Dinitro-2-methylphenol	6 ppm
							4-Bromophenyl phenyl ether	1 ppm
							4-Chloro-3-methylphenol	1 ppm
							4-Chloroaniline	1 ppm
							4-Chlorophenyl phenyl ether	1 ppm
							4-Methylphenol	1 ppm
							4-Nitroaniline	1 ppm
							4-Nitrophenol	6 ppm
							Acenaphthene	1 ppm
							Acenaphthylene	1 ppm
							Acetophenone	1 ppm
							Aniline	1 ppm
							Anthracene	1 ppm
							Benzo[a]anthracene	1 ppm
							Benzo[a]pyrene	1 ppm
							Benzo[b]fluoranthene	1 ppm
							Benzo[g,h,i]perylene	1 ppm
							Benzo[k]fluoranthene	1 ppm
							Benzyl alcohol	1 ppm
							Bis(2-chloroethoxy)methane	1 ppm
							Bis(2-chloroethyl)ether	1 ppm
							Bis(2-ethylhexyl) phthalate	1 ppm
							Butylbenzylphthalate	1 ppm
							Carbazole	1 ppm
							Chrysene	1 ppm
							Di-n-butyl phthalate	1 ppm
							Di-n-octyl phthalate	1 ppm
							Dibenz(a,h)anthracene	1 ppm
							Dibenzofuran	1 ppm
							Diethylphthalate	1 ppm
							Dimethylphthalate	1 ppm
							Fluoranthene	1 ppm
							Fluorene	1 ppm
							Hexachlorobenzene	1 ppm
							Hexachlorobutadiene	1 ppm
							Hexachlorocyclopentadiene	1 ppm
							Hexachloroethane	1 ppm
							Indeno[1,2,3-cd]pyrene	1 ppm
							Isophorone	1 ppm
							N-Nitrosodi-n-propylamine	1 ppm
							N-Nitrosodimethylamine	1 ppm
							N-Nitrosodiphenylamine	0.85 ppm
							Naphthalene	1 ppm
							Nitrobenzene	1 ppm
							Pentachlorophenol	5 ppm
							Phenanthrene	1 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenol	1 ppm
							Pyrene	1 ppm
							Pyridine	2 ppm
							3,3'-Dichlorobenzidine	1 ppm
							Benzidine	3 ppm
							Alpha-Terpineol	1 ppm
							Dimethylformamide	1 ppm
							Octachlorostyrene	1 ppm
							Phenyl ether	1 ppm
					MSS_AB_24DNP_00008	40 uL	2,4-Dinitrophenol	10 ppm
					MSS_AB_46D2MP_00005	20 uL	4,6-Dinitro-2-methylphenol	6 ppm
					MSS_AB_4NP_00005	20 uL	4-Nitrophenol	6 ppm
					MSS_AB_PCP_00005	15 uL	Pentachlorophenol	5 ppm
					MSS_FV8270_IS_00005	100 uL	1,4-Dichlorobenzene-d4	20 ppm
							Acenaphthene-d10	20 ppm
							Naphthalene-d8	20 ppm
							Perylene-d12	20 ppm
							Phenanthrene-d10	20 ppm
							Pyrene-d10 (IS)	20 ppm
..MSS_8270_APWS_00012	04/30/23	11/03/22	MeCl2, Lot 224977	10 mL	MSS_AB_BZIDIN_00011	1000 uL	Benzidine	500 ppm
					OP_RES_APPX1_00008	2500 uL	1,3,5-Trinitrobenzene	250 ppm
							1,4-Dinitrobenzene	250 ppm
							1-Naphthylamine	250 ppm
							2-Acetylaminofluorene	250 ppm
							2-Naphthylamine	250 ppm
							2-Picoline	250 ppm
							2-Toluidine	250 ppm
							3,3'-Dimethylbenzidine	250 ppm
							4,4'-Methylene bis(2-chloroaniline)	250 ppm
							4-Aminobiphenyl	250 ppm
							4-Nitroquinoline-1-oxide	250 ppm
							Dibenz[a,h]acridine	250 ppm
							N-Nitro-o-toluidine	250 ppm
							N-Nitrosodi-n-butylamine	250 ppm
							N-Nitrosodiethylamine	250 ppm
							N-Nitrosomethylethylamine	250 ppm
							N-Nitrosomorpholine	250 ppm
							N-Nitrosopiperidine	250 ppm
							N-Nitrosopyrrolidine	250 ppm
							p-Dimethylamino azobenzene	250 ppm
							p-Phenylene diamine	250 ppm
							Pentachloronitrobenzene	250 ppm
							Phenacetin	250 ppm
							Pronamide	250 ppm
							Quinoline	250 ppm
					OP_RES_APPX2_00009	2500 uL	1,4-Naphthoquinone	250 ppm
							1-Chloronaphthalene	250 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							7,12-Dimethylbenz(a)anthracene	250 ppm
							Chlorobenzilate	250 ppm
							Dinoseb	250 ppm
							Ethyl methanesulfonate	250 ppm
							Hexachloropropene	250 ppm
							Isodrin	250 ppm
							Isosafrole Peak 1	40 ppm
							Isosafrole Peak 2	210 ppm
							Methyl methanesulfonate	250 ppm
							Pentachlorobenzene	250 ppm
					OP_RES_APPX3_00006	1250 uL	3-Methylcholanthrene	250 ppm
							6-Methylchrysene	250 ppm
					OP_RES_APPX4_00007	2500 uL	cis-Diallate	185 ppm
							Dimethoate	250 ppm
							Disulfoton	250 ppm
							Ethyl Parathion	250 ppm
							Methyl parathion	250 ppm
							o,o',o''-Triethylphosphorothioate	250 ppm
							Phorate	250 ppm
							Safrole, Total	250 ppm
							Sulfotepp	250 ppm
							Thionazin	250 ppm
							trans-Diallate	65 ppm
...MSS_AB_BZIDIN_00011	12/06/24		Absolute, Lot 102722		(Purchased Reagent)		Benzidine	5000 ug/mL
...OP_RES_APPX1_00008	07/31/23		Restek, Lot A0187679		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,4-Dinitrobenzene	1000 ug/mL
							1-Naphthylamine	1000 ug/mL
							2-Acetylaminofluorene	1000 ug/mL
							2-Naphthylamine	1000 ug/mL
							2-Picoline	1000 ug/mL
							2-Toluidine	1000 ug/mL
							3,3'-Dimethylbenzidine	1000 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	1000 ug/mL
							4-Aminobiphenyl	1000 ug/mL
							4-Nitroquinoline-1-oxide	1000 ug/mL
							Dibenz[a,h]acridine	1000 ug/mL
							N-Nitro-o-toluidine	1000 ug/mL
							N-Nitrosodi-n-butylamine	1000 ug/mL
							N-Nitrosodiethylamine	1000 ug/mL
							N-Nitrosomethylethylamine	1000 ug/mL
							N-Nitrosomorpholine	1000 ug/mL
							N-Nitrosopiperidine	1000 ug/mL
							N-Nitrosopyrrolidine	1000 ug/mL
							p-Dimethylamino azobenzene	1000 ug/mL
							p-Phenylene diamine	1000 ug/mL
							Pentachloronitrobenzene	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenacetin	1000 ug/mL
							Pronamide	1000 ug/mL
							Quinoline	1000 ug/mL
...OP_RES_APPX2_00009	05/31/23		Restek, Lot A0185039		(Purchased Reagent)		1,4-Naphthoquinone	1000 ug/mL
							1-Chloronaphthalene	1000 ug/mL
							7,12-Dimethylbenz(a)anthracene	1000 ug/mL
							Chlorobenzilate	1000 ug/mL
							Dinoseb	1000 ug/mL
							Ethyl methanesulfonate	1000 ug/mL
							Hexachloropropene	1000 ug/mL
							Isodrin	1000 ug/mL
							Isosafrole Peak 1	160 ug/mL
							Isosafrole Peak 2	840 ug/mL
							Methyl methanesulfonate	1000 ug/mL
							Pentachlorobenzene	1000 ug/mL
...OP_RES_APPX3_00006	04/30/23		Restek, Lot A0184674		(Purchased Reagent)		3-Methylcholanthrene	2000 ug/mL
							6-Methylchrysene	2000 ug/mL
...OP_RES_APPX4_00007	01/31/24		Restek, Lot A0180903		(Purchased Reagent)		cis-Diallate	740 ug/mL
							Dimethoate	1000 ug/mL
							Disulfoton	1000 ug/mL
							Ethyl Parathion	1000 ug/mL
							Methyl parathion	1000 ug/mL
							o,o',o''-Triethylphosphorothioate	1000 ug/mL
							Phorate	1000 ug/mL
							Safrole, Total	1000 ug/mL
							Sulfotepp	1000 ug/mL
							Thionazin	1000 ug/mL
							trans-Diallate	260 ug/mL
..MSS_8270_WS_00013	05/03/23	11/03/22	MeCl2, Lot 224977	10 mL	MSS_8270_SURR_00004	1250 uL	2,4,6-Tribromophenol (Surr)	500 ppm
							2-Fluorobiphenyl (Surr)	500 ppm
							2-Fluorophenol (Surr)	500 ppm
							Nitrobenzene-d5 (Surr)	500 ppm
							p-Terphenyl-d14 (Surr)	500 ppm
							Phenol-d5 (Surr)	500 ppm
					OP_RES_APPX6_00004	1250 uL	Dibenz[a,j]acridine	250 ppm
					OP_RES_LCS1_00008	2500 uL	1,1'-Biphenyl	250 ppm
							1,2,4,5-Tetrachlorobenzene	250 ppm
							1,2,4-Trichlorobenzene	250 ppm
							1,2-Dichlorobenzene	250 ppm
							1,2-Diphenylhydrazine	250 ppm
							1,3-Dichlorobenzene	250 ppm
							1,3-Dinitrobenzene	250 ppm
							1,4-Dichlorobenzene	250 ppm
							1,4-Dioxane	250 ppm
							1-Methylnaphthalene	250 ppm
							2,2'-oxybis[1-chloropropane]	250 ppm
							2,3,4,6-Tetrachlorophenol	250 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4,5-Trichlorophenol	250 ppm
							2,4,6-Trichlorophenol	250 ppm
							2,4-Dichlorophenol	250 ppm
							2,4-Dimethylphenol	250 ppm
							2,4-Dinitrophenol	500 ppm
							2,4-Dinitrotoluene	250 ppm
							2,6-Dichlorophenol	250 ppm
							2,6-Dinitrotoluene	250 ppm
							2-Chloronaphthalene	250 ppm
							2-Chlorophenol	250 ppm
							2-Methylnaphthalene	250 ppm
							2-Methylphenol	250 ppm
							2-Nitroaniline	250 ppm
							2-Nitrophenol	250 ppm
							3-Nitroaniline	250 ppm
							4,6-Dinitro-2-methylphenol	500 ppm
							4-Bromophenyl phenyl ether	250 ppm
							4-Chloro-3-methylphenol	250 ppm
							4-Chloroaniline	250 ppm
							4-Chlorophenyl phenyl ether	250 ppm
							4-Methylphenol	250 ppm
							4-Nitroaniline	250 ppm
							4-Nitrophenol	500 ppm
							Acenaphthene	250 ppm
							Acenaphthylene	250 ppm
							Acetophenone	250 ppm
							Aniline	250 ppm
							Anthracene	250 ppm
							Benzo[a]anthracene	250 ppm
							Benzo[a]pyrene	250 ppm
							Benzo[b]fluoranthene	250 ppm
							Benzo[g,h,i]perylene	250 ppm
							Benzo[k]fluoranthene	250 ppm
							Benzyl alcohol	250 ppm
							Bis(2-chloroethoxy)methane	250 ppm
							Bis(2-chloroethyl)ether	250 ppm
							Bis(2-ethylhexyl) phthalate	250 ppm
							Butylbenzylphthalate	250 ppm
							Carbazole	250 ppm
							Chrysene	250 ppm
							Di-n-butyl phthalate	250 ppm
							Di-n-octyl phthalate	250 ppm
							Dibenz(a,h)anthracene	250 ppm
							Dibenzofuran	250 ppm
							Diethylphthalate	250 ppm
							Dimethylphthalate	250 ppm
							Fluoranthene	250 ppm
							Fluorene	250 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorobenzene	250 ppm
							Hexachlorobutadiene	250 ppm
							Hexachlorocyclopentadiene	250 ppm
							Hexachloroethane	250 ppm
							Indeno[1,2,3-cd]pyrene	250 ppm
							Isophorone	250 ppm
							N-Nitrosodi-n-propylamine	250 ppm
							N-Nitrosodimethylamine	250 ppm
							N-Nitrosodiphenylamine	212.5 ppm
							Naphthalene	250 ppm
							Nitrobenzene	250 ppm
							Pentachlorophenol	500 ppm
							Phenanthrene	250 ppm
							Phenol	250 ppm
							Pyrene	250 ppm
							Pyridine	500 ppm
					OP_RES_LCS2_00008	1250 uL	3,3'-Dichlorobenzidine	250 ppm
							Benzidine	250 ppm
					OP_RES_LCSadd_00001	1250 uL	Alpha-Terpineol	250 ppm
							Dimethylformamide	250 ppm
							Octachlorostyrene	250 ppm
							Phenyl ether	250 ppm
...MSS_8270_SURR_00004	10/31/23		Sigma- Aldrich, Lot LRAC8467		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	4000 ug/mL
							2-Fluorobiphenyl (Surr)	4000 ug/mL
							2-Fluorophenol (Surr)	4000 ug/mL
							Nitrobenzene-d5 (Surr)	4000 ug/mL
							p-Terphenyl-d14 (Surr)	4000 ug/mL
							Phenol-d5 (Surr)	4000 ug/mL
...OP_RES_APPX6_00004	08/31/24		Restek, Lot A0175669		(Purchased Reagent)		Dibenz[a,j]acridine	2000 ug/mL
...OP_RES_LCS1_00008	06/30/23		Restek, Lot A0179662		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butylbenzylphthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethylphthalate	1000 ug/mL
							Dimethylphthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	850 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
...OP_RES_LCS2_00008	07/31/23		Restek, Lot A0181121		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
...OP_RES_LCSadd_00001	12/31/23		Restek, Lot A0166837		(Purchased Reagent)		Alpha-Terpineol	2000 ug/mL
							Dimethylformamide	2000 ug/mL
							Octachlorostyrene	2000 ug/mL
							Phenyl ether	2000 ug/mL
..MSS_AB_24DNP_00008	09/21/23		Absolute, Lot 120920		(Purchased Reagent)		2,4-Dinitrophenol	1000 ug/mL
..MSS_AB_46D2MP_00005	09/21/23		Absolute, Lot 111924		(Purchased Reagent)		4,6-Dinitro-2-methylphenol	1000 ug/mL
..MSS_AB_4NP_00005	09/21/23		Absolute, Lot 072418		(Purchased Reagent)		4-Nitrophenol	1000 ug/mL
..MSS_AB_PCP_00005	09/21/23		Absolute, Lot 062222		(Purchased Reagent)		Pentachlorophenol	1000 ug/mL
..MSS_FV8270_IS_00005	11/30/23		Restek, Lot A0166482		(Purchased Reagent)		1,4-Dichlorobenzene-d4	1000 ug/mL
							Acenaphthene-d10	1000 ug/mL
							Naphthalene-d8	1000 ug/mL
							Perylene-d12	1000 ug/mL
							Phenanthrene-d10	1000 ug/mL
							Pyrene-d10 (IS)	1000 ug/mL
MSS_RV8270_3_00024	11/30/22	11/03/22	MeCl2, Lot 224977	1 mL	MSS_BAS_WS_00006	12.5 uL	Atrazine	1.25 ppm
							Benzaldehyde	1.25 ppm
							Caprolactam	1.25 ppm
					MSS_FV8270_3_00028	250 uL	Benzidine	3.75 ppm
							1,3,5-Trinitrobenzene	1.25 ppm
							1,4-Dinitrobenzene	1.25 ppm
							1-Naphthylamine	1.25 ppm
							2-Acetylaminofluorene	1.25 ppm
							2-Naphthylamine	1.25 ppm
							2-Picoline	1.25 ppm
							2-Toluidine	1.25 ppm
							3,3'-Dimethylbenzidine	1.25 ppm
							4,4'-Methylene bis(2-chloroaniline)	1.25 ppm
							4-Aminobiphenyl	1.25 ppm
							4-Nitroquinoline-1-oxide	1.25 ppm
							Dibenz[a,h]acridine	1.25 ppm
							N-Nitro-o-toluidine	1.25 ppm
							N-Nitrosodi-n-butylamine	1.25 ppm
							N-Nitrosodiethylamine	1.25 ppm
							N-Nitrosomethylethylamine	1.25 ppm
							N-Nitrosomorpholine	1.25 ppm
							N-Nitrosopiperidine	1.25 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosopyrrolidine	1.25 ppm
							p-Dimethylamino azobenzene	1.25 ppm
							p-Phenylene diamine	1.25 ppm
							Pentachloronitrobenzene	1.25 ppm
							Phenacetin	1.25 ppm
							Pronamide	1.25 ppm
							Quinoline	1.25 ppm
							1,4-Naphthoquinone	1.25 ppm
							1-Chloronaphthalene	1.25 ppm
							7,12-Dimethylbenz(a)anthracene	1.25 ppm
							Chlorobenzilate	1.25 ppm
							Dinoseb	1.25 ppm
							Ethyl methanesulfonate	1.25 ppm
							Hexachloropropene	1.25 ppm
							Isodrin	1.25 ppm
							Isosafrole Peak 1	0.2 ppm
							Isosafrole Peak 2	1.05 ppm
							Methyl methanesulfonate	1.25 ppm
							Pentachlorobenzene	1.25 ppm
							3-Methylcholanthrene	1.25 ppm
							6-Methylchrysene	1.25 ppm
							cis-Diallate	0.925 ppm
							Dimethoate	1.25 ppm
							Disulfoton	1.25 ppm
							Ethyl Parathion	1.25 ppm
							Methyl parathion	1.25 ppm
							o,o',o''-Triethylphosphorothioate	1.25 ppm
							Phorate	1.25 ppm
							Safrole, Total	1.25 ppm
							Sulfotepp	1.25 ppm
							Thionazin	1.25 ppm
							trans-Diallate	0.325 ppm
							2,4,6-Tribromophenol (Surr)	2.5 ppm
							2-Fluorobiphenyl (Surr)	2.5 ppm
							2-Fluorophenol (Surr)	2.5 ppm
							Nitrobenzene-d5 (Surr)	2.5 ppm
							p-Terphenyl-d14 (Surr)	2.5 ppm
							Phenol-d5 (Surr)	2.5 ppm
							Dibenz[a,j]acridine	1.25 ppm
							1,1'-Biphenyl	1.25 ppm
							1,2,4,5-Tetrachlorobenzene	1.25 ppm
							1,2,4-Trichlorobenzene	1.25 ppm
							1,2-Dichlorobenzene	1.25 ppm
							1,2-Diphenylhydrazine	1.25 ppm
							1,3-Dichlorobenzene	1.25 ppm
							1,3-Dinitrobenzene	1.25 ppm
							1,4-Dichlorobenzene	1.25 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dioxane	1.25 ppm
							1-Methylnaphthalene	1.25 ppm
							2,2'-oxybis[1-chloropropane]	1.25 ppm
							2,3,4,6-Tetrachlorophenol	1.25 ppm
							2,4,5-Trichlorophenol	1.25 ppm
							2,4,6-Trichlorophenol	1.25 ppm
							2,4-Dichlorophenol	1.25 ppm
							2,4-Dimethylphenol	1.25 ppm
							2,4-Dinitrophenol	5 ppm
							2,4-Dinitrotoluene	1.25 ppm
							2,6-Dichlorophenol	1.25 ppm
							2,6-Dinitrotoluene	1.25 ppm
							2-Chloronaphthalene	1.25 ppm
							2-Chlorophenol	1.25 ppm
							2-Methylnaphthalene	1.25 ppm
							2-Methylphenol	1.25 ppm
							2-Nitroaniline	1.25 ppm
							2-Nitrophenol	1.25 ppm
							3-Nitroaniline	1.25 ppm
							4,6-Dinitro-2-methylphenol	3.75 ppm
							4-Bromophenyl phenyl ether	1.25 ppm
							4-Chloro-3-methylphenol	1.25 ppm
							4-Chloroaniline	1.25 ppm
							4-Chlorophenyl phenyl ether	1.25 ppm
							4-Methylphenol	1.25 ppm
							4-Nitroaniline	1.25 ppm
							4-Nitrophenol	3.75 ppm
							Acenaphthene	1.25 ppm
							Acenaphthylene	1.25 ppm
							Acetophenone	1.25 ppm
							Aniline	1.25 ppm
							Anthracene	1.25 ppm
							Benzo[a]anthracene	1.25 ppm
							Benzo[a]pyrene	1.25 ppm
							Benzo[b]fluoranthene	1.25 ppm
							Benzo[g,h,i]perylene	1.25 ppm
							Benzo[k]fluoranthene	1.25 ppm
							Benzyl alcohol	1.25 ppm
							Bis(2-chloroethoxy)methane	1.25 ppm
							Bis(2-chloroethyl)ether	1.25 ppm
							Bis(2-ethylhexyl) phthalate	1.25 ppm
							Butylbenzylphthalate	1.25 ppm
							Carbazole	1.25 ppm
							Chrysene	1.25 ppm
							Di-n-butyl phthalate	1.25 ppm
							Di-n-octyl phthalate	1.25 ppm
							Dibenz(a,h)anthracene	1.25 ppm
							Dibenzofuran	1.25 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Diethylphthalate	1.25 ppm
							Dimethylphthalate	1.25 ppm
							Fluoranthene	1.25 ppm
							Fluorene	1.25 ppm
							Hexachlorobenzene	1.25 ppm
							Hexachlorobutadiene	1.25 ppm
							Hexachlorocyclopentadiene	1.25 ppm
							Hexachloroethane	1.25 ppm
							Indeno[1,2,3-cd]pyrene	1.25 ppm
							Isophorone	1.25 ppm
							N-Nitrosodi-n-propylamine	1.25 ppm
							N-Nitrosodimethylamine	1.25 ppm
							N-Nitrosodiphenylamine	1.0625 ppm
							Naphthalene	1.25 ppm
							Nitrobenzene	1.25 ppm
							Pentachlorophenol	2.5 ppm
							Phenanthrene	1.25 ppm
							Phenol	1.25 ppm
							Pyrene	1.25 ppm
							Pyridine	2.5 ppm
							3,3'-Dichlorobenzidine	1.25 ppm
							Alpha-Terpineol	1.25 ppm
							Dimethylformamide	1.25 ppm
							Octachlorostyrene	1.25 ppm
							Phenyl ether	1.25 ppm
							1,4-Dichlorobenzene-d4	5 ppm
							Acenaphthene-d10	5 ppm
							Naphthalene-d8	5 ppm
							Perylene-d12	5 ppm
							Phenanthrene-d10	5 ppm
							Pyrene-d10 (IS)	5 ppm
.MSS_BAS_WS_00006	11/30/22	05/18/22	MeCl2, Lot 217990	5 mL	OP_LCSmix2stk_00004	250 uL	Atrazine	100 ppm
							Benzaldehyde	100 ppm
							Caprolactam	100 ppm
..OP_LCSmix2stk_00004	11/30/22		Restek, Lot A0172244		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
.MSS_FV8270_3_00028	04/30/23	11/03/22	MeCl2, Lot 223128	2 mL	MSS_8270_APWS_00012	40 uL	Benzidine	15 ppm
							1,3,5-Trinitrobenzene	5 ppm
							1,4-Dinitrobenzene	5 ppm
							1-Naphthylamine	5 ppm
							2-Acetylaminofluorene	5 ppm
							2-Naphthylamine	5 ppm
							2-Picoline	5 ppm
							2-Toluidine	5 ppm
							3,3'-Dimethylbenzidine	5 ppm
							4,4'-Methylene bis(2-chloroaniline)	5 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Aminobiphenyl	5 ppm
							4-Nitroquinoline-1-oxide	5 ppm
							Dibenz[a,h]acridine	5 ppm
							N-Nitro-o-toluidine	5 ppm
							N-Nitrosodi-n-butylamine	5 ppm
							N-Nitrosodiethylamine	5 ppm
							N-Nitrosomethylethylamine	5 ppm
							N-Nitrosomorpholine	5 ppm
							N-Nitrosopiperidine	5 ppm
							N-Nitrosopyrrolidine	5 ppm
							p-Dimethylamino azobenzene	5 ppm
							p-Phenylene diamine	5 ppm
							Pentachloronitrobenzene	5 ppm
							Phenacetin	5 ppm
							Pronamide	5 ppm
							Quinoline	5 ppm
							1,4-Naphthoquinone	5 ppm
							1-Chloronaphthalene	5 ppm
							7,12-Dimethylbenz(a)anthracene	5 ppm
							Chlorobenzilate	5 ppm
							Dinoseb	5 ppm
							Ethyl methanesulfonate	5 ppm
							Hexachloropropene	5 ppm
							Isodrin	5 ppm
							Isosafrole Peak 1	0.8 ppm
							Isosafrole Peak 2	4.2 ppm
							Methyl methanesulfonate	5 ppm
							Pentachlorobenzene	5 ppm
							3-Methylcholanthrene	5 ppm
							6-Methylchrysene	5 ppm
							cis-Diallate	3.7 ppm
							Dimethoate	5 ppm
							Disulfoton	5 ppm
							Ethyl Parathion	5 ppm
							Methyl parathion	5 ppm
							o,o',o''-Triethylphosphorothioate	5 ppm
							Phorate	5 ppm
							Safrole, Total	5 ppm
							Sulfotepp	5 ppm
							Thionazin	5 ppm
							trans-Diallate	1.3 ppm
					MSS_8270_WS_00013	40 uL	2,4,6-Tribromophenol (Surr)	10 ppm
							2-Fluorobiphenyl (Surr)	10 ppm
							2-Fluorophenol (Surr)	10 ppm
							Nitrobenzene-d5 (Surr)	10 ppm
							p-Terphenyl-d14 (Surr)	10 ppm
							Phenol-d5 (Surr)	10 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibenz[a,j]acridine	5 ppm
							1,1'-Biphenyl	5 ppm
							1,2,4,5-Tetrachlorobenzene	5 ppm
							1,2,4-Trichlorobenzene	5 ppm
							1,2-Dichlorobenzene	5 ppm
							1,2-Diphenylhydrazine	5 ppm
							1,3-Dichlorobenzene	5 ppm
							1,3-Dinitrobenzene	5 ppm
							1,4-Dichlorobenzene	5 ppm
							1,4-Dioxane	5 ppm
							1-Methylnaphthalene	5 ppm
							2,2'-oxybis[1-chloropropane]	5 ppm
							2,3,4,6-Tetrachlorophenol	5 ppm
							2,4,5-Trichlorophenol	5 ppm
							2,4,6-Trichlorophenol	5 ppm
							2,4-Dichlorophenol	5 ppm
							2,4-Dimethylphenol	5 ppm
							2,4-Dinitrophenol	20 ppm
							2,4-Dinitrotoluene	5 ppm
							2,6-Dichlorophenol	5 ppm
							2,6-Dinitrotoluene	5 ppm
							2-Chloronaphthalene	5 ppm
							2-Chlorophenol	5 ppm
							2-Methylnaphthalene	5 ppm
							2-Methylphenol	5 ppm
							2-Nitroaniline	5 ppm
							2-Nitrophenol	5 ppm
							3-Nitroaniline	5 ppm
							4,6-Dinitro-2-methylphenol	15 ppm
							4-Bromophenyl phenyl ether	5 ppm
							4-Chloro-3-methylphenol	5 ppm
							4-Chloroaniline	5 ppm
							4-Chlorophenyl phenyl ether	5 ppm
							4-Methylphenol	5 ppm
							4-Nitroaniline	5 ppm
							4-Nitrophenol	15 ppm
							Acenaphthene	5 ppm
							Acenaphthylene	5 ppm
							Acetophenone	5 ppm
							Aniline	5 ppm
							Anthracene	5 ppm
							Benzo[a]anthracene	5 ppm
							Benzo[a]pyrene	5 ppm
							Benzo[b]fluoranthene	5 ppm
							Benzo[g,h,i]perylene	5 ppm
							Benzo[k]fluoranthene	5 ppm
							Benzyl alcohol	5 ppm
							Bis(2-chloroethoxy)methane	5 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bis(2-chloroethyl)ether	5 ppm
							Bis(2-ethylhexyl) phthalate	5 ppm
							Butylbenzylphthalate	5 ppm
							Carbazole	5 ppm
							Chrysene	5 ppm
							Di-n-butyl phthalate	5 ppm
							Di-n-octyl phthalate	5 ppm
							Dibenz(a,h)anthracene	5 ppm
							Dibenzofuran	5 ppm
							Diethylphthalate	5 ppm
							Dimethylphthalate	5 ppm
							Fluoranthene	5 ppm
							Fluorene	5 ppm
							Hexachlorobenzene	5 ppm
							Hexachlorobutadiene	5 ppm
							Hexachlorocyclopentadiene	5 ppm
							Hexachloroethane	5 ppm
							Indeno[1,2,3-cd]pyrene	5 ppm
							Isophorone	5 ppm
							N-Nitrosodi-n-propylamine	5 ppm
							N-Nitrosodimethylamine	5 ppm
							N-Nitrosodiphenylamine	4.25 ppm
							Naphthalene	5 ppm
							Nitrobenzene	5 ppm
							Pentachlorophenol	10 ppm
							Phenanthrene	5 ppm
							Phenol	5 ppm
							Pyrene	5 ppm
							Pyridine	10 ppm
							3,3'-Dichlorobenzidine	5 ppm
							Benzidine	15 ppm
							Alpha-Terpineol	5 ppm
							Dimethylformamide	5 ppm
							Octachlorostyrene	5 ppm
							Phenyl ether	5 ppm
					MSS_AB_24DNP_00008	20 uL	2,4-Dinitrophenol	20 ppm
					MSS_AB_46D2MP_00005	10 uL	4,6-Dinitro-2-methylphenol	15 ppm
					MSS_AB_4NP_00005	10 uL	4-Nitrophenol	15 ppm
					MSS_FV8270_IS_00005	40 uL	1,4-Dichlorobenzene-d4	20 ppm
							Acenaphthene-d10	20 ppm
							Naphthalene-d8	20 ppm
							Perylene-d12	20 ppm
							Phenanthrene-d10	20 ppm
							Pyrene-d10 (IS)	20 ppm
..MSS_8270_APWS_00012	04/30/23	11/03/22	MeCl2, Lot 224977	10 mL	MSS_AB_BZIDIN_00011	1000 uL	Benzidine	500 ppm
					OP_RES_APPX1_00008	2500 uL	1,3,5-Trinitrobenzene	250 ppm
							1,4-Dinitrobenzene	250 ppm
							1-Naphthylamine	250 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Acetylaminofluorene	250 ppm
							2-Naphthylamine	250 ppm
							2-Picoline	250 ppm
							2-Toluidine	250 ppm
							3,3'-Dimethylbenzidine	250 ppm
							4,4'-Methylene bis(2-chloroaniline)	250 ppm
							4-Aminobiphenyl	250 ppm
							4-Nitroquinoline-1-oxide	250 ppm
							Dibenz[a,h]acridine	250 ppm
							N-Nitro-o-toluidine	250 ppm
							N-Nitrosodi-n-butylamine	250 ppm
							N-Nitrosodiethylamine	250 ppm
							N-Nitrosomethylethylamine	250 ppm
							N-Nitrosomorpholine	250 ppm
							N-Nitrosopiperidine	250 ppm
							N-Nitrosopyrrolidine	250 ppm
							p-Dimethylamino azobenzene	250 ppm
							p-Phenylene diamine	250 ppm
							Pentachloronitrobenzene	250 ppm
							Phenacetin	250 ppm
							Pronamide	250 ppm
							Quinoline	250 ppm
					OP_RES_APPX2_00009	2500 uL	1,4-Naphthoquinone	250 ppm
							1-Chloronaphthalene	250 ppm
							7,12-Dimethylbenz(a)anthracene	250 ppm
							Chlorobenzilate	250 ppm
							Dinoseb	250 ppm
							Ethyl methanesulfonate	250 ppm
							Hexachloropropene	250 ppm
							Isodrin	250 ppm
							Isosafrole Peak 1	40 ppm
							Isosafrole Peak 2	210 ppm
							Methyl methanesulfonate	250 ppm
							Pentachlorobenzene	250 ppm
					OP_RES_APPX3_00006	1250 uL	3-Methylcholanthrene	250 ppm
							6-Methylchrysene	250 ppm
					OP_RES_APPX4_00007	2500 uL	cis-Diallate	185 ppm
							Dimethoate	250 ppm
							Disulfoton	250 ppm
							Ethyl Parathion	250 ppm
							Methyl parathion	250 ppm
							o,o',o''-Triethylphosphorothioate	250 ppm
							Phorate	250 ppm
							Safrole, Total	250 ppm
							Sulfotepp	250 ppm
							Thionazin	250 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-Diallate	65 ppm
...MSS_AB_BZIDIN_00011	12/06/24		Absolute, Lot 102722		(Purchased Reagent)		Benzidine	5000 ug/mL
...OP_RES_APPX1_00008	07/31/23		Restek, Lot A0187679		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,4-Dinitrobenzene	1000 ug/mL
							1-Naphthylamine	1000 ug/mL
							2-Acetylaminofluorene	1000 ug/mL
							2-Naphthylamine	1000 ug/mL
							2-Picoline	1000 ug/mL
							2-Toluidine	1000 ug/mL
							3,3'-Dimethylbenzidine	1000 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	1000 ug/mL
							4-Aminobiphenyl	1000 ug/mL
							4-Nitroquinoline-1-oxide	1000 ug/mL
							Dibenz[a,h]acridine	1000 ug/mL
							N-Nitro-o-toluidine	1000 ug/mL
							N-Nitrosodi-n-butylamine	1000 ug/mL
							N-Nitrosodiethylamine	1000 ug/mL
							N-Nitrosomethylethylamine	1000 ug/mL
							N-Nitrosomorpholine	1000 ug/mL
							N-Nitrosopiperidine	1000 ug/mL
							N-Nitrosopyrrolidine	1000 ug/mL
							p-Dimethylamino azobenzene	1000 ug/mL
							p-Phenylene diamine	1000 ug/mL
							Pentachloronitrobenzene	1000 ug/mL
							Phenacetin	1000 ug/mL
							Pronamide	1000 ug/mL
							Quinoline	1000 ug/mL
...OP_RES_APPX2_00009	05/31/23		Restek, Lot A0185039		(Purchased Reagent)		1,4-Naphthoquinone	1000 ug/mL
							1-Chloronaphthalene	1000 ug/mL
							7,12-Dimethylbenz(a)anthracene	1000 ug/mL
							Chlorobenzilate	1000 ug/mL
							Dinoseb	1000 ug/mL
							Ethyl methanesulfonate	1000 ug/mL
							Hexachloropropene	1000 ug/mL
							Isodrin	1000 ug/mL
							Isosafrole Peak 1	160 ug/mL
							Isosafrole Peak 2	840 ug/mL
							Methyl methanesulfonate	1000 ug/mL
							Pentachlorobenzene	1000 ug/mL
...OP_RES_APPX3_00006	04/30/23		Restek, Lot A0184674		(Purchased Reagent)		3-Methylcholanthrene	2000 ug/mL
							6-Methylchrysene	2000 ug/mL
...OP_RES_APPX4_00007	01/31/24		Restek, Lot A0180903		(Purchased Reagent)		cis-Diallate	740 ug/mL
							Dimethoate	1000 ug/mL
							Disulfoton	1000 ug/mL
							Ethyl Parathion	1000 ug/mL
							Methyl parathion	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							o,o',o''-Triethylphosphorothioate	1000 ug/mL
							Phorate	1000 ug/mL
							Safrole, Total	1000 ug/mL
							Sulfotepp	1000 ug/mL
							Thionazin	1000 ug/mL
							trans-Diallate	260 ug/mL
..MSS_8270_WS_00013	05/03/23	11/03/22	MeCl2, Lot 224977	10 mL	MSS_8270_SURR_00004	1250 uL	2,4,6-Tribromophenol (Surr)	500 ppm
							2-Fluorobiphenyl (Surr)	500 ppm
							2-Fluorophenol (Surr)	500 ppm
							Nitrobenzene-d5 (Surr)	500 ppm
							p-Terphenyl-d14 (Surr)	500 ppm
							Phenol-d5 (Surr)	500 ppm
					OP_RES_APPX6_00004	1250 uL	Dibenz[a,j]acridine	250 ppm
					OP_RES_LCS1_00008	2500 uL	1,1'-Biphenyl	250 ppm
							1,2,4,5-Tetrachlorobenzene	250 ppm
							1,2,4-Trichlorobenzene	250 ppm
							1,2-Dichlorobenzene	250 ppm
							1,2-Diphenylhydrazine	250 ppm
							1,3-Dichlorobenzene	250 ppm
							1,3-Dinitrobenzene	250 ppm
							1,4-Dichlorobenzene	250 ppm
							1,4-Dioxane	250 ppm
							1-Methylnaphthalene	250 ppm
							2,2'-oxybis[1-chloropropane]	250 ppm
							2,3,4,6-Tetrachlorophenol	250 ppm
							2,4,5-Trichlorophenol	250 ppm
							2,4,6-Trichlorophenol	250 ppm
							2,4-Dichlorophenol	250 ppm
							2,4-Dimethylphenol	250 ppm
							2,4-Dinitrophenol	500 ppm
							2,4-Dinitrotoluene	250 ppm
							2,6-Dichlorophenol	250 ppm
							2,6-Dinitrotoluene	250 ppm
							2-Chloronaphthalene	250 ppm
							2-Chlorophenol	250 ppm
							2-Methylnaphthalene	250 ppm
							2-Methylphenol	250 ppm
							2-Nitroaniline	250 ppm
							2-Nitrophenol	250 ppm
							3-Nitroaniline	250 ppm
							4,6-Dinitro-2-methylphenol	500 ppm
							4-Bromophenyl phenyl ether	250 ppm
							4-Chloro-3-methylphenol	250 ppm
							4-Chloroaniline	250 ppm
							4-Chlorophenyl phenyl ether	250 ppm
							4-Methylphenol	250 ppm
							4-Nitroaniline	250 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Nitrophenol	500 ppm
							Acenaphthene	250 ppm
							Acenaphthylene	250 ppm
							Acetophenone	250 ppm
							Aniline	250 ppm
							Anthracene	250 ppm
							Benzo[a]anthracene	250 ppm
							Benzo[a]pyrene	250 ppm
							Benzo[b]fluoranthene	250 ppm
							Benzo[g,h,i]perylene	250 ppm
							Benzo[k]fluoranthene	250 ppm
							Benzyl alcohol	250 ppm
							Bis(2-chloroethoxy)methane	250 ppm
							Bis(2-chloroethyl)ether	250 ppm
							Bis(2-ethylhexyl) phthalate	250 ppm
							Butylbenzylphthalate	250 ppm
							Carbazole	250 ppm
							Chrysene	250 ppm
							Di-n-butyl phthalate	250 ppm
							Di-n-octyl phthalate	250 ppm
							Dibenz(a,h)anthracene	250 ppm
							Dibenzofuran	250 ppm
							Diethylphthalate	250 ppm
							Dimethylphthalate	250 ppm
							Fluoranthene	250 ppm
							Fluorene	250 ppm
							Hexachlorobenzene	250 ppm
							Hexachlorobutadiene	250 ppm
							Hexachlorocyclopentadiene	250 ppm
							Hexachloroethane	250 ppm
							Indeno[1,2,3-cd]pyrene	250 ppm
							Isophorone	250 ppm
							N-Nitrosodi-n-propylamine	250 ppm
							N-Nitrosodimethylamine	250 ppm
							N-Nitrosodiphenylamine	212.5 ppm
							Naphthalene	250 ppm
							Nitrobenzene	250 ppm
							Pentachlorophenol	500 ppm
							Phenanthrene	250 ppm
							Phenol	250 ppm
							Pyrene	250 ppm
							Pyridine	500 ppm
					OP_RES_LCS2_00008	1250 uL	3,3'-Dichlorobenzidine	250 ppm
							Benzidine	250 ppm
					OP_RES_LCSadd_00001	1250 uL	Alpha-Terpineol	250 ppm
							Dimethylformamide	250 ppm
							Octachlorostyrene	250 ppm
							Phenyl ether	250 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...MSS_8270_SURR_00004	10/31/23		Sigma- Aldrich, Lot LRAC8467		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	4000 ug/mL
							2-Fluorobiphenyl (Surr)	4000 ug/mL
							2-Fluorophenol (Surr)	4000 ug/mL
							Nitrobenzene-d5 (Surr)	4000 ug/mL
							p-Terphenyl-d14 (Surr)	4000 ug/mL
							Phenol-d5 (Surr)	4000 ug/mL
...OP_RES_APPX6_00004	08/31/24		Restek, Lot A0175669		(Purchased Reagent)		Dibenz[a,j]acridine	2000 ug/mL
...OP_RES_LCS1_00008	06/30/23		Restek, Lot A0179662		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butylbenzylphthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethylphthalate	1000 ug/mL
							Dimethylphthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	850 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
...OP_RES_LCS2_00008	07/31/23		Restek, Lot A0181121		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
...OP_RES_LCSadd_00001	12/31/23		Restek, Lot A0166837		(Purchased Reagent)		Alpha-Terpineol	2000 ug/mL
							Dimethylformamide	2000 ug/mL
							Octachlorostyrene	2000 ug/mL
							Phenyl ether	2000 ug/mL
..MSS_AB_24DNP_00008	09/21/23		Absolute, Lot 120920		(Purchased Reagent)		2,4-Dinitrophenol	1000 ug/mL
..MSS_AB_46D2MP_00005	09/21/23		Absolute, Lot 111924		(Purchased Reagent)		4,6-Dinitro-2-methylphenol	1000 ug/mL
..MSS_AB_4NP_00005	09/21/23		Absolute, Lot 072418		(Purchased Reagent)		4-Nitrophenol	1000 ug/mL
..MSS_FV8270_IS_00005	11/30/23		Restek, Lot A0166482		(Purchased Reagent)		1,4-Dichlorobenzene-d4	1000 ug/mL
							Acenaphthene-d10	1000 ug/mL
							Naphthalene-d8	1000 ug/mL
							Perylene-d12	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenanthrene-d10	1000 ug/mL
							Pyrene-d10 (IS)	1000 ug/mL
MSS_RV8270_4_00024	11/30/22	11/03/22	MeCl2, Lot 224977	3 mL	MSS_BAS_WS_00006	112.5 uL	Atrazine	3.75 ppm
							Benzaldehyde	3.75 ppm
							Caprolactam	3.75 ppm
					MSS_FV8270_4_00026	750 uL	Benzidine	11.25 ppm
							1,3,5-Trinitrobenzene	3.75 ppm
							1,4-Dinitrobenzene	3.75 ppm
							1-Naphthylamine	3.75 ppm
							2-Acetylaminofluorene	3.75 ppm
							2-Naphthylamine	3.75 ppm
							2-Picoline	3.75 ppm
							2-Toluidine	3.75 ppm
							3,3'-Dimethylbenzidine	3.75 ppm
							4,4'-Methylene bis(2-chloroaniline)	3.75 ppm
							4-Aminobiphenyl	3.75 ppm
							4-Nitroquinoline-1-oxide	3.75 ppm
							Dibenz[a,h]acridine	3.75 ppm
							N-Nitro-o-toluidine	3.75 ppm
							N-Nitrosodi-n-butylamine	3.75 ppm
							N-Nitrosodiethylamine	3.75 ppm
							N-Nitrosomethylethylamine	3.75 ppm
							N-Nitrosomorpholine	3.75 ppm
							N-Nitrosopiperidine	3.75 ppm
							N-Nitrosopyrrolidine	3.75 ppm
							p-Dimethylamino azobenzene	3.75 ppm
							p-Phenylene diamine	3.75 ppm
							Pentachloronitrobenzene	3.75 ppm
							Phenacetin	3.75 ppm
							Pronamide	3.75 ppm
							Quinoline	3.75 ppm
							1,4-Naphthoquinone	3.75 ppm
							1-Chloronaphthalene	3.75 ppm
							7,12-Dimethylbenz(a)anthracene	3.75 ppm
							Chlorobenzilate	3.75 ppm
							Dinoseb	3.75 ppm
							Ethyl methanesulfonate	3.75 ppm
							Hexachloropropene	3.75 ppm
							Isodrin	3.75 ppm
							Isosafrole Peak 1	0.6 ppm
							Isosafrole Peak 2	3.15 ppm
							Methyl methanesulfonate	3.75 ppm
							Pentachlorobenzene	3.75 ppm
							3-Methylcholanthrene	3.75 ppm
							6-Methylchrysene	3.75 ppm
							cis-Diallate	2.775 ppm
							Dimethoate	3.75 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Disulfoton	3.75 ppm
							Ethyl Parathion	3.75 ppm
							Methyl parathion	3.75 ppm
							o,o',o''-Triethylphosphorothioate	3.75 ppm
							Phorate	3.75 ppm
							Safrole, Total	3.75 ppm
							Sulfotepp	3.75 ppm
							Thionazin	3.75 ppm
							trans-Diallate	0.975 ppm
							2,4,6-Tribromophenol (Surr)	7.5 ppm
							2-Fluorobiphenyl (Surr)	7.5 ppm
							2-Fluorophenol (Surr)	7.5 ppm
							Nitrobenzene-d5 (Surr)	7.5 ppm
							p-Terphenyl-d14 (Surr)	7.5 ppm
							Phenol-d5 (Surr)	7.5 ppm
							Dibenz[a,j]acridine	3.75 ppm
							1,1'-Biphenyl	3.75 ppm
							1,2,4,5-Tetrachlorobenzene	3.75 ppm
							1,2,4-Trichlorobenzene	3.75 ppm
							1,2-Dichlorobenzene	3.75 ppm
							1,2-Diphenylhydrazine	3.75 ppm
							1,3-Dichlorobenzene	3.75 ppm
							1,3-Dinitrobenzene	3.75 ppm
							1,4-Dichlorobenzene	3.75 ppm
							1,4-Dioxane	3.75 ppm
							1-Methylnaphthalene	3.75 ppm
							2,2'-oxybis[1-chloropropane]	3.75 ppm
							2,3,4,6-Tetrachlorophenol	3.75 ppm
							2,4,5-Trichlorophenol	3.75 ppm
							2,4,6-Trichlorophenol	3.75 ppm
							2,4-Dichlorophenol	3.75 ppm
							2,4-Dimethylphenol	3.75 ppm
							2,4-Dinitrophenol	11.25 ppm
							2,4-Dinitrotoluene	3.75 ppm
							2,6-Dichlorophenol	3.75 ppm
							2,6-Dinitrotoluene	3.75 ppm
							2-Chloronaphthalene	3.75 ppm
							2-Chlorophenol	3.75 ppm
							2-Methylnaphthalene	3.75 ppm
							2-Methylphenol	3.75 ppm
							2-Nitroaniline	3.75 ppm
							2-Nitrophenol	3.75 ppm
							3-Nitroaniline	3.75 ppm
							4,6-Dinitro-2-methylphenol	7.5 ppm
							4-Bromophenyl phenyl ether	3.75 ppm
							4-Chloro-3-methylphenol	3.75 ppm
							4-Chloroaniline	3.75 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Chlorophenyl phenyl ether	3.75 ppm
							4-Methylphenol	3.75 ppm
							4-Nitroaniline	3.75 ppm
							4-Nitrophenol	7.5 ppm
							Acenaphthene	3.75 ppm
							Acenaphthylene	3.75 ppm
							Acetophenone	3.75 ppm
							Aniline	3.75 ppm
							Anthracene	3.75 ppm
							Benzo[a]anthracene	3.75 ppm
							Benzo[a]pyrene	3.75 ppm
							Benzo[b]fluoranthene	3.75 ppm
							Benzo[g,h,i]perylene	3.75 ppm
							Benzo[k]fluoranthene	3.75 ppm
							Benzyl alcohol	3.75 ppm
							Bis(2-chloroethoxy)methane	3.75 ppm
							Bis(2-chloroethyl)ether	3.75 ppm
							Bis(2-ethylhexyl) phthalate	3.75 ppm
							Butylbenzylphthalate	3.75 ppm
							Carbazole	3.75 ppm
							Chrysene	3.75 ppm
							Di-n-butyl phthalate	3.75 ppm
							Di-n-octyl phthalate	3.75 ppm
							Dibenz(a,h)anthracene	3.75 ppm
							Dibenzofuran	3.75 ppm
							Diethylphthalate	3.75 ppm
							Dimethylphthalate	3.75 ppm
							Fluoranthene	3.75 ppm
							Fluorene	3.75 ppm
							Hexachlorobenzene	3.75 ppm
							Hexachlorobutadiene	3.75 ppm
							Hexachlorocyclopentadiene	3.75 ppm
							Hexachloroethane	3.75 ppm
							Indeno[1,2,3-cd]pyrene	3.75 ppm
							Isophorone	3.75 ppm
							N-Nitrosodi-n-propylamine	3.75 ppm
							N-Nitrosodimethylamine	3.75 ppm
							N-Nitrosodiphenylamine	3.1875 ppm
							Naphthalene	3.75 ppm
							Nitrobenzene	3.75 ppm
							Pentachlorophenol	7.5 ppm
							Phenanthrene	3.75 ppm
							Phenol	3.75 ppm
							Pyrene	3.75 ppm
							Pyridine	7.5 ppm
							3,3'-Dichlorobenzidine	3.75 ppm
							Alpha-Terpineol	3.75 ppm
							Dimethylformamide	3.75 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Octachlorostyrene	3.75 ppm
							Phenyl ether	3.75 ppm
							1,4-Dichlorobenzene-d4	5 ppm
							Acenaphthene-d10	5 ppm
							Naphthalene-d8	5 ppm
							Perylene-d12	5 ppm
							Phenanthrene-d10	5 ppm
							Pyrene-d10 (IS)	5 ppm
.MSS_BAS_WS_00006	11/30/22	05/18/22	MeCl2, Lot 217990	5 mL	OP_LCSmix2stk_00004	250 uL	Atrazine	100 ppm
							Benzaldehyde	100 ppm
							Caprolactam	100 ppm
..OP_LCSmix2stk_00004	11/30/22		Restek, Lot A0172244		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
.MSS_FV8270_4_00026	04/30/23	11/03/22	MeCl2, Lot 224977	2 mL	MSS_8270_APWS_00012	120 uL	Benzidine	45 ppm
							1,3,5-Trinitrobenzene	15 ppm
							1,4-Dinitrobenzene	15 ppm
							1-Naphthylamine	15 ppm
							2-Acetylaminofluorene	15 ppm
							2-Naphthylamine	15 ppm
							2-Picoline	15 ppm
							2-Toluidine	15 ppm
							3,3'-Dimethylbenzidine	15 ppm
							4,4'-Methylene bis(2-chloroaniline)	15 ppm
							4-Aminobiphenyl	15 ppm
							4-Nitroquinoline-1-oxide	15 ppm
							Dibenz[a,h]acridine	15 ppm
							N-Nitro-o-toluidine	15 ppm
							N-Nitrosodi-n-butylamine	15 ppm
							N-Nitrosodiethylamine	15 ppm
							N-Nitrosomethylethylamine	15 ppm
							N-Nitrosomorpholine	15 ppm
							N-Nitrosopiperidine	15 ppm
							N-Nitrosopyrrolidine	15 ppm
							p-Dimethylamino azobenzene	15 ppm
							p-Phenylene diamine	15 ppm
							Pentachloronitrobenzene	15 ppm
							Phenacetin	15 ppm
							Pronamide	15 ppm
							Quinoline	15 ppm
							1,4-Naphthoquinone	15 ppm
							1-Chloronaphthalene	15 ppm
							7,12-Dimethylbenz(a)anthracene	15 ppm
							Chlorobenzilate	15 ppm
							Dinoseb	15 ppm
							Ethyl methanesulfonate	15 ppm
							Hexachloropropene	15 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isodrin	15 ppm
							Isosafrole Peak 1	2.4 ppm
							Isosafrole Peak 2	12.6 ppm
							Methyl methanesulfonate	15 ppm
							Pentachlorobenzene	15 ppm
							3-Methylcholanthrene	15 ppm
							6-Methylchrysene	15 ppm
							cis-Diallate	11.1 ppm
							Dimethoate	15 ppm
							Disulfoton	15 ppm
							Ethyl Parathion	15 ppm
							Methyl parathion	15 ppm
							o,o',o''-Triethylphosphorothioate	15 ppm
							Phorate	15 ppm
							Safrole, Total	15 ppm
							Sulfotepp	15 ppm
							Thionazin	15 ppm
							trans-Diallate	3.9 ppm
					MSS_8270_WS_00013	120 uL	2,4,6-Tribromophenol (Surr)	30 ppm
							2-Fluorobiphenyl (Surr)	30 ppm
							2-Fluorophenol (Surr)	30 ppm
							Nitrobenzene-d5 (Surr)	30 ppm
							p-Terphenyl-d14 (Surr)	30 ppm
							Phenol-d5 (Surr)	30 ppm
							Dibenz[a,j]acridine	15 ppm
							1,1'-Biphenyl	15 ppm
							1,2,4,5-Tetrachlorobenzene	15 ppm
							1,2,4-Trichlorobenzene	15 ppm
							1,2-Dichlorobenzene	15 ppm
							1,2-Diphenylhydrazine	15 ppm
							1,3-Dichlorobenzene	15 ppm
							1,3-Dinitrobenzene	15 ppm
							1,4-Dichlorobenzene	15 ppm
							1,4-Dioxane	15 ppm
							1-Methylnaphthalene	15 ppm
							2,2'-oxybis[1-chloropropane]	15 ppm
							2,3,4,6-Tetrachlorophenol	15 ppm
							2,4,5-Trichlorophenol	15 ppm
							2,4,6-Trichlorophenol	15 ppm
							2,4-Dichlorophenol	15 ppm
							2,4-Dimethylphenol	15 ppm
							2,4-Dinitrophenol	45 ppm
							2,4-Dinitrotoluene	15 ppm
							2,6-Dichlorophenol	15 ppm
							2,6-Dinitrotoluene	15 ppm
							2-Chloronaphthalene	15 ppm
							2-Chlorophenol	15 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Methylnaphthalene	15 ppm
							2-Methylphenol	15 ppm
							2-Nitroaniline	15 ppm
							2-Nitrophenol	15 ppm
							3-Nitroaniline	15 ppm
							4,6-Dinitro-2-methylphenol	30 ppm
							4-Bromophenyl phenyl ether	15 ppm
							4-Chloro-3-methylphenol	15 ppm
							4-Chloroaniline	15 ppm
							4-Chlorophenyl phenyl ether	15 ppm
							4-Methylphenol	15 ppm
							4-Nitroaniline	15 ppm
							4-Nitrophenol	30 ppm
							Acenaphthene	15 ppm
							Acenaphthylene	15 ppm
							Acetophenone	15 ppm
							Aniline	15 ppm
							Anthracene	15 ppm
							Benzo[a]anthracene	15 ppm
							Benzo[a]pyrene	15 ppm
							Benzo[b]fluoranthene	15 ppm
							Benzo[g,h,i]perylene	15 ppm
							Benzo[k]fluoranthene	15 ppm
							Benzyl alcohol	15 ppm
							Bis(2-chloroethoxy)methane	15 ppm
							Bis(2-chloroethyl)ether	15 ppm
							Bis(2-ethylhexyl) phthalate	15 ppm
							Butylbenzylphthalate	15 ppm
							Carbazole	15 ppm
							Chrysene	15 ppm
							Di-n-butyl phthalate	15 ppm
							Di-n-octyl phthalate	15 ppm
							Dibenz(a,h)anthracene	15 ppm
							Dibenzofuran	15 ppm
							Diethylphthalate	15 ppm
							Dimethylphthalate	15 ppm
							Fluoranthene	15 ppm
							Fluorene	15 ppm
							Hexachlorobenzene	15 ppm
							Hexachlorobutadiene	15 ppm
							Hexachlorocyclopentadiene	15 ppm
							Hexachloroethane	15 ppm
							Indeno[1,2,3-cd]pyrene	15 ppm
							Isophorone	15 ppm
							N-Nitrosodi-n-propylamine	15 ppm
							N-Nitrosodimethylamine	15 ppm
							N-Nitrosodiphenylamine	12.75 ppm
							Naphthalene	15 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Nitrobenzene	15 ppm
							Pentachlorophenol	30 ppm
							Phenanthrene	15 ppm
							Phenol	15 ppm
							Pyrene	15 ppm
							Pyridine	30 ppm
							3,3'-Dichlorobenzidine	15 ppm
							Benzidine	45 ppm
							Alpha-Terpineol	15 ppm
							Dimethylformamide	15 ppm
							Octachlorostyrene	15 ppm
							Phenyl ether	15 ppm
					MSS_AB_24DNP_00008	30 uL	2,4-Dinitrophenol	45 ppm
					MSS_FV8270_IS_00005	40 uL	1,4-Dichlorobenzene-d4	20 ppm
							Acenaphthene-d10	20 ppm
							Naphthalene-d8	20 ppm
							Perylene-d12	20 ppm
							Phenanthrene-d10	20 ppm
							Pyrene-d10 (IS)	20 ppm
..MSS_8270_APWS_00012	04/30/23	11/03/22	MeCl2, Lot 224977	10 mL	MSS_AB_BZIDIN_00011	1000 uL	Benzidine	500 ppm
					OP_RES_APPX1_00008	2500 uL	1,3,5-Trinitrobenzene	250 ppm
							1,4-Dinitrobenzene	250 ppm
							1-Naphthylamine	250 ppm
							2-Acetylaminofluorene	250 ppm
							2-Naphthylamine	250 ppm
							2-Picoline	250 ppm
							2-Toluidine	250 ppm
							3,3'-Dimethylbenzidine	250 ppm
							4,4'-Methylene bis(2-chloroaniline)	250 ppm
							4-Aminobiphenyl	250 ppm
							4-Nitroquinoline-1-oxide	250 ppm
							Dibenz[a,h]acridine	250 ppm
							N-Nitro-o-toluidine	250 ppm
							N-Nitrosodi-n-butylamine	250 ppm
							N-Nitrosodiethylamine	250 ppm
							N-Nitrosomethylethylamine	250 ppm
							N-Nitrosomorpholine	250 ppm
							N-Nitrosopiperidine	250 ppm
							N-Nitrosopyrrolidine	250 ppm
							p-Dimethylamino azobenzene	250 ppm
							p-Phenylene diamine	250 ppm
							Pentachloronitrobenzene	250 ppm
							Phenacetin	250 ppm
							Pronamide	250 ppm
							Quinoline	250 ppm
					OP_RES_APPX2_00009	2500 uL	1,4-Naphthoquinone	250 ppm
							1-Chloronaphthalene	250 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							7,12-Dimethylbenz(a)anthracene	250 ppm
							Chlorobenzilate	250 ppm
							Dinoseb	250 ppm
							Ethyl methanesulfonate	250 ppm
							Hexachloropropene	250 ppm
							Isodrin	250 ppm
							Isosafrole Peak 1	40 ppm
							Isosafrole Peak 2	210 ppm
							Methyl methanesulfonate	250 ppm
							Pentachlorobenzene	250 ppm
					OP_RES_APPX3_00006	1250 uL	3-Methylcholanthrene	250 ppm
							6-Methylchrysene	250 ppm
					OP_RES_APPX4_00007	2500 uL	cis-Diallate	185 ppm
							Dimethoate	250 ppm
							Disulfoton	250 ppm
							Ethyl Parathion	250 ppm
							Methyl parathion	250 ppm
							o,o',o''-Triethylphosphorothioate	250 ppm
							Phorate	250 ppm
							Safrole, Total	250 ppm
							Sulfotepp	250 ppm
							Thionazin	250 ppm
							trans-Diallate	65 ppm
...MSS_AB_BZIDIN_00011	12/06/24		Absolute, Lot 102722		(Purchased Reagent)		Benzidine	5000 ug/mL
...OP_RES_APPX1_00008	07/31/23		Restek, Lot A0187679		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,4-Dinitrobenzene	1000 ug/mL
							1-Naphthylamine	1000 ug/mL
							2-Acetylaminofluorene	1000 ug/mL
							2-Naphthylamine	1000 ug/mL
							2-Picoline	1000 ug/mL
							2-Toluidine	1000 ug/mL
							3,3'-Dimethylbenzidine	1000 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	1000 ug/mL
							4-Aminobiphenyl	1000 ug/mL
							4-Nitroquinoline-1-oxide	1000 ug/mL
							Dibenz[a,h]acridine	1000 ug/mL
							N-Nitro-o-toluidine	1000 ug/mL
							N-Nitrosodi-n-butylamine	1000 ug/mL
							N-Nitrosodiethylamine	1000 ug/mL
							N-Nitrosomethylethylamine	1000 ug/mL
							N-Nitrosomorpholine	1000 ug/mL
							N-Nitrosopiperidine	1000 ug/mL
							N-Nitrosopyrrolidine	1000 ug/mL
							p-Dimethylamino azobenzene	1000 ug/mL
							p-Phenylene diamine	1000 ug/mL
							Pentachloronitrobenzene	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenacetin	1000 ug/mL
							Pronamide	1000 ug/mL
							Quinoline	1000 ug/mL
...OP_RES_APPX2_00009	05/31/23		Restek, Lot A0185039		(Purchased Reagent)		1,4-Naphthoquinone	1000 ug/mL
							1-Chloronaphthalene	1000 ug/mL
							7,12-Dimethylbenz(a)anthracene	1000 ug/mL
							Chlorobenzilate	1000 ug/mL
							Dinoseb	1000 ug/mL
							Ethyl methanesulfonate	1000 ug/mL
							Hexachloropropene	1000 ug/mL
							Isodrin	1000 ug/mL
							Isosafrole Peak 1	160 ug/mL
							Isosafrole Peak 2	840 ug/mL
							Methyl methanesulfonate	1000 ug/mL
							Pentachlorobenzene	1000 ug/mL
...OP_RES_APPX3_00006	04/30/23		Restek, Lot A0184674		(Purchased Reagent)		3-Methylcholanthrene	2000 ug/mL
							6-Methylchrysene	2000 ug/mL
...OP_RES_APPX4_00007	01/31/24		Restek, Lot A0180903		(Purchased Reagent)		cis-Diallate	740 ug/mL
							Dimethoate	1000 ug/mL
							Disulfoton	1000 ug/mL
							Ethyl Parathion	1000 ug/mL
							Methyl parathion	1000 ug/mL
							o,o',o''-Triethylphosphorothioate	1000 ug/mL
							Phorate	1000 ug/mL
							Safrole, Total	1000 ug/mL
							Sulfotepp	1000 ug/mL
							Thionazin	1000 ug/mL
							trans-Diallate	260 ug/mL
..MSS_8270_WS_00013	05/03/23	11/03/22	MeCl2, Lot 224977	10 mL	MSS_8270_SURR_00004	1250 uL	2,4,6-Tribromophenol (Surr)	500 ppm
							2-Fluorobiphenyl (Surr)	500 ppm
							2-Fluorophenol (Surr)	500 ppm
							Nitrobenzene-d5 (Surr)	500 ppm
							p-Terphenyl-d14 (Surr)	500 ppm
							Phenol-d5 (Surr)	500 ppm
					OP_RES_APPX6_00004	1250 uL	Dibenz[a,j]acridine	250 ppm
					OP_RES_LCS1_00008	2500 uL	1,1'-Biphenyl	250 ppm
							1,2,4,5-Tetrachlorobenzene	250 ppm
							1,2,4-Trichlorobenzene	250 ppm
							1,2-Dichlorobenzene	250 ppm
							1,2-Diphenylhydrazine	250 ppm
							1,3-Dichlorobenzene	250 ppm
							1,3-Dinitrobenzene	250 ppm
							1,4-Dichlorobenzene	250 ppm
							1,4-Dioxane	250 ppm
							1-Methylnaphthalene	250 ppm
							2,2'-oxybis[1-chloropropane]	250 ppm
							2,3,4,6-Tetrachlorophenol	250 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4,5-Trichlorophenol	250 ppm
							2,4,6-Trichlorophenol	250 ppm
							2,4-Dichlorophenol	250 ppm
							2,4-Dimethylphenol	250 ppm
							2,4-Dinitrophenol	500 ppm
							2,4-Dinitrotoluene	250 ppm
							2,6-Dichlorophenol	250 ppm
							2,6-Dinitrotoluene	250 ppm
							2-Chloronaphthalene	250 ppm
							2-Chlorophenol	250 ppm
							2-Methylnaphthalene	250 ppm
							2-Methylphenol	250 ppm
							2-Nitroaniline	250 ppm
							2-Nitrophenol	250 ppm
							3-Nitroaniline	250 ppm
							4,6-Dinitro-2-methylphenol	500 ppm
							4-Bromophenyl phenyl ether	250 ppm
							4-Chloro-3-methylphenol	250 ppm
							4-Chloroaniline	250 ppm
							4-Chlorophenyl phenyl ether	250 ppm
							4-Methylphenol	250 ppm
							4-Nitroaniline	250 ppm
							4-Nitrophenol	500 ppm
							Acenaphthene	250 ppm
							Acenaphthylene	250 ppm
							Acetophenone	250 ppm
							Aniline	250 ppm
							Anthracene	250 ppm
							Benzo[a]anthracene	250 ppm
							Benzo[a]pyrene	250 ppm
							Benzo[b]fluoranthene	250 ppm
							Benzo[g,h,i]perylene	250 ppm
							Benzo[k]fluoranthene	250 ppm
							Benzyl alcohol	250 ppm
							Bis(2-chloroethoxy)methane	250 ppm
							Bis(2-chloroethyl)ether	250 ppm
							Bis(2-ethylhexyl) phthalate	250 ppm
							Butylbenzylphthalate	250 ppm
							Carbazole	250 ppm
							Chrysene	250 ppm
							Di-n-butyl phthalate	250 ppm
							Di-n-octyl phthalate	250 ppm
							Dibenz(a,h)anthracene	250 ppm
							Dibenzofuran	250 ppm
							Diethylphthalate	250 ppm
							Dimethylphthalate	250 ppm
							Fluoranthene	250 ppm
							Fluorene	250 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorobenzene	250 ppm
							Hexachlorobutadiene	250 ppm
							Hexachlorocyclopentadiene	250 ppm
							Hexachloroethane	250 ppm
							Indeno[1,2,3-cd]pyrene	250 ppm
							Isophorone	250 ppm
							N-Nitrosodi-n-propylamine	250 ppm
							N-Nitrosodimethylamine	250 ppm
							N-Nitrosodiphenylamine	212.5 ppm
							Naphthalene	250 ppm
							Nitrobenzene	250 ppm
							Pentachlorophenol	500 ppm
							Phenanthrene	250 ppm
							Phenol	250 ppm
							Pyrene	250 ppm
							Pyridine	500 ppm
					OP_RES_LCS2_00008	1250 uL	3,3'-Dichlorobenzidine	250 ppm
							Benzidine	250 ppm
					OP_RES_LCSadd_00001	1250 uL	Alpha-Terpineol	250 ppm
							Dimethylformamide	250 ppm
							Octachlorostyrene	250 ppm
							Phenyl ether	250 ppm
...MSS_8270_SURR_00004	10/31/23		Sigma- Aldrich, Lot LRAC8467		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	4000 ug/mL
							2-Fluorobiphenyl (Surr)	4000 ug/mL
							2-Fluorophenol (Surr)	4000 ug/mL
							Nitrobenzene-d5 (Surr)	4000 ug/mL
							p-Terphenyl-d14 (Surr)	4000 ug/mL
							Phenol-d5 (Surr)	4000 ug/mL
...OP_RES_APPX6_00004	08/31/24		Restek, Lot A0175669		(Purchased Reagent)		Dibenz[a,j]acridine	2000 ug/mL
...OP_RES_LCS1_00008	06/30/23		Restek, Lot A0179662		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butylbenzylphthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethylphthalate	1000 ug/mL
							Dimethylphthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	850 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
...OP_RES_LCS2_00008	07/31/23		Restek, Lot A0181121		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
...OP_RES_LCSadd_00001	12/31/23		Restek, Lot A0166837		(Purchased Reagent)		Alpha-Terpineol	2000 ug/mL
							Dimethylformamide	2000 ug/mL
							Octachlorostyrene	2000 ug/mL
							Phenyl ether	2000 ug/mL
..MSS_AB_24DNP_00008	09/21/23		Absolute, Lot 120920		(Purchased Reagent)		2,4-Dinitrophenol	1000 ug/mL
..MSS_FV8270_IS_00005	11/30/23		Restek, Lot A0166482		(Purchased Reagent)		1,4-Dichlorobenzene-d4	1000 ug/mL
							Acenaphthene-d10	1000 ug/mL
							Naphthalene-d8	1000 ug/mL
							Perylene-d12	1000 ug/mL
							Phenanthrene-d10	1000 ug/mL
							Pyrene-d10 (IS)	1000 ug/mL
MSS_RV8270_5_00034	11/30/22	11/03/22	MeCl2, Lot 224977	3 mL	MSS_BAS_WS_00006	225 uL	Atrazine	7.5 ppm
							Benzaldehyde	7.5 ppm
							Caprolactam	7.5 ppm
					MSS_FV8270_5_00033	750 uL	Benzidine	22.5 ppm
							1,3,5-Trinitrobenzene	7.5 ppm
							1,4-Dinitrobenzene	7.5 ppm
							1-Naphthylamine	7.5 ppm
							2-Acetylaminofluorene	7.5 ppm
							2-Naphthylamine	7.5 ppm
							2-Picoline	7.5 ppm
							2-Toluidine	7.5 ppm
							3,3'-Dimethylbenzidine	7.5 ppm
							4,4'-Methylene bis(2-chloroaniline)	7.5 ppm
							4-Aminobiphenyl	7.5 ppm
							4-Nitroquinoline-1-oxide	7.5 ppm
							Dibenz[a,h]acridine	7.5 ppm
							N-Nitro-o-toluidine	7.5 ppm
							N-Nitrosodi-n-butylamine	7.5 ppm
							N-Nitrosodiethylamine	7.5 ppm
							N-Nitrosomethylethylamine	7.5 ppm
							N-Nitrosomorpholine	7.5 ppm
							N-Nitrosopiperidine	7.5 ppm
							N-Nitrosopyrrolidine	7.5 ppm
							p-Dimethylamino azobenzene	7.5 ppm
							p-Phenylene diamine	7.5 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pentachloronitrobenzene	7.5 ppm
							Phenacetin	7.5 ppm
							Pronamide	7.5 ppm
							Quinoline	7.5 ppm
							1,4-Naphthoquinone	7.5 ppm
							1-Chloronaphthalene	7.5 ppm
							7,12-Dimethylbenz(a)anthracene	7.5 ppm
							Chlorobenzilate	7.5 ppm
							Dinoseb	7.5 ppm
							Ethyl methanesulfonate	7.5 ppm
							Hexachloropropene	7.5 ppm
							Isodrin	7.5 ppm
							Isosafrole Peak 1	1.2 ppm
							Isosafrole Peak 2	6.3 ppm
							Methyl methanesulfonate	7.5 ppm
							Pentachlorobenzene	7.5 ppm
							3-Methylcholanthrene	7.5 ppm
							6-Methylchrysene	7.5 ppm
							cis-Diallate	5.55 ppm
							Dimethoate	7.5 ppm
							Disulfoton	7.5 ppm
							Ethyl Parathion	7.5 ppm
							Methyl parathion	7.5 ppm
							o,o',o''-Triethylphosphorothioate	7.5 ppm
							Phorate	7.5 ppm
							Safrole, Total	7.5 ppm
							Sulfotepp	7.5 ppm
							Thionazin	7.5 ppm
							trans-Diallate	1.95 ppm
							2,4,6-Tribromophenol (Surr)	15 ppm
							2-Fluorobiphenyl (Surr)	15 ppm
							2-Fluorophenol (Surr)	15 ppm
							Nitrobenzene-d5 (Surr)	15 ppm
							p-Terphenyl-d14 (Surr)	15 ppm
							Phenol-d5 (Surr)	15 ppm
							Dibenz[a,j]acridine	7.5 ppm
							1,1'-Biphenyl	7.5 ppm
							1,2,4,5-Tetrachlorobenzene	7.5 ppm
							1,2,4-Trichlorobenzene	7.5 ppm
							1,2-Dichlorobenzene	7.5 ppm
							1,2-Diphenylhydrazine	7.5 ppm
							1,3-Dichlorobenzene	7.5 ppm
							1,3-Dinitrobenzene	7.5 ppm
							1,4-Dichlorobenzene	7.5 ppm
							1,4-Dioxane	7.5 ppm
							1-Methylnaphthalene	7.5 ppm
							2,2'-oxybis[1-chloropropane]	7.5 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,3,4,6-Tetrachlorophenol	7.5 ppm
							2,4,5-Trichlorophenol	7.5 ppm
							2,4,6-Trichlorophenol	7.5 ppm
							2,4-Dichlorophenol	7.5 ppm
							2,4-Dimethylphenol	7.5 ppm
							2,4-Dinitrophenol	17.5 ppm
							2,4-Dinitrotoluene	7.5 ppm
							2,6-Dichlorophenol	7.5 ppm
							2,6-Dinitrotoluene	7.5 ppm
							2-Chloronaphthalene	7.5 ppm
							2-Chlorophenol	7.5 ppm
							2-Methylnaphthalene	7.5 ppm
							2-Methylphenol	7.5 ppm
							2-Nitroaniline	7.5 ppm
							2-Nitrophenol	7.5 ppm
							3-Nitroaniline	7.5 ppm
							4,6-Dinitro-2-methylphenol	15 ppm
							4-Bromophenyl phenyl ether	7.5 ppm
							4-Chloro-3-methylphenol	7.5 ppm
							4-Chloroaniline	7.5 ppm
							4-Chlorophenyl phenyl ether	7.5 ppm
							4-Methylphenol	7.5 ppm
							4-Nitroaniline	7.5 ppm
							4-Nitrophenol	15 ppm
							Acenaphthene	7.5 ppm
							Acenaphthylene	7.5 ppm
							Acetophenone	7.5 ppm
							Aniline	7.5 ppm
							Anthracene	7.5 ppm
							Benzo[a]anthracene	7.5 ppm
							Benzo[a]pyrene	7.5 ppm
							Benzo[b]fluoranthene	7.5 ppm
							Benzo[g,h,i]perylene	7.5 ppm
							Benzo[k]fluoranthene	7.5 ppm
							Benzyl alcohol	7.5 ppm
							Bis(2-chloroethoxy)methane	7.5 ppm
							Bis(2-chloroethyl)ether	7.5 ppm
							Bis(2-ethylhexyl) phthalate	7.5 ppm
							Butylbenzylphthalate	7.5 ppm
							Carbazole	7.5 ppm
							Chrysene	7.5 ppm
							Di-n-butyl phthalate	7.5 ppm
							Di-n-octyl phthalate	7.5 ppm
							Dibenz(a,h)anthracene	7.5 ppm
							Dibenzofuran	7.5 ppm
							Diethylphthalate	7.5 ppm
							Dimethylphthalate	7.5 ppm
							Fluoranthene	7.5 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluorene	7.5 ppm
							Hexachlorobenzene	7.5 ppm
							Hexachlorobutadiene	7.5 ppm
							Hexachlorocyclopentadiene	7.5 ppm
							Hexachloroethane	7.5 ppm
							Indeno[1,2,3-cd]pyrene	7.5 ppm
							Isophorone	7.5 ppm
							N-Nitrosodi-n-propylamine	7.5 ppm
							N-Nitrosodimethylamine	7.5 ppm
							N-Nitrosodiphenylamine	6.375 ppm
							Naphthalene	7.5 ppm
							Nitrobenzene	7.5 ppm
							Pentachlorophenol	15 ppm
							Phenanthrene	7.5 ppm
							Phenol	7.5 ppm
							Pyrene	7.5 ppm
							Pyridine	15 ppm
							3,3'-Dichlorobenzidine	7.5 ppm
							Alpha-Terpineol	7.5 ppm
							Dimethylformamide	7.5 ppm
							Octachlorostyrene	7.5 ppm
							Phenyl ether	7.5 ppm
							1,4-Dichlorobenzene-d4	5 ppm
							Acenaphthene-d10	5 ppm
							Naphthalene-d8	5 ppm
							Perylene-d12	5 ppm
							Phenanthrene-d10	5 ppm
							Pyrene-d10 (IS)	5 ppm
.MSS_BAS_WS_00006	11/30/22	05/18/22	MeCl2, Lot 217990	5 mL	OP_LCSmix2stk_00004	250 uL	Atrazine	100 ppm
							Benzaldehyde	100 ppm
							Caprolactam	100 ppm
..OP_LCSmix2stk_00004	11/30/22		Restek, Lot A0172244		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
.MSS_FV8270_5_00033	04/30/23	11/03/22	MeCl2, Lot 224977	5 mL	MSS_8270_APWS_00012	600 uL	Benzidine	90 ppm
							1,3,5-Trinitrobenzene	30 ppm
							1,4-Dinitrobenzene	30 ppm
							1-Naphthylamine	30 ppm
							2-Acetylaminofluorene	30 ppm
							2-Naphthylamine	30 ppm
							2-Picoline	30 ppm
							2-Toluidine	30 ppm
							3,3'-Dimethylbenzidine	30 ppm
							4,4'-Methylene bis(2-chloroaniline)	30 ppm
							4-Aminobiphenyl	30 ppm
							4-Nitroquinoline-1-oxide	30 ppm
							Dibenz[a,h]acridine	30 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitro-o-toluidine	30 ppm
							N-Nitrosodi-n-butylamine	30 ppm
							N-Nitrosodiethylamine	30 ppm
							N-Nitrosomethylethylamine	30 ppm
							N-Nitrosomorpholine	30 ppm
							N-Nitrosopiperidine	30 ppm
							N-Nitrosopyrrolidine	30 ppm
							p-Dimethylamino azobenzene	30 ppm
							p-Phenylene diamine	30 ppm
							Pentachloronitrobenzene	30 ppm
							Phenacetin	30 ppm
							Pronamide	30 ppm
							Quinoline	30 ppm
							1,4-Naphthoquinone	30 ppm
							1-Chloronaphthalene	30 ppm
							7,12-Dimethylbenz(a)anthracene	30 ppm
							Chlorobenzilate	30 ppm
							Dinoseb	30 ppm
							Ethyl methanesulfonate	30 ppm
							Hexachloropropene	30 ppm
							Isodrin	30 ppm
							Isosafrole Peak 1	4.8 ppm
							Isosafrole Peak 2	25.2 ppm
							Methyl methanesulfonate	30 ppm
							Pentachlorobenzene	30 ppm
							3-Methylcholanthrene	30 ppm
							6-Methylchrysene	30 ppm
							cis-Diallate	22.2 ppm
							Dimethoate	30 ppm
							Disulfoton	30 ppm
							Ethyl Parathion	30 ppm
							Methyl parathion	30 ppm
							o,o',o''-Triethylphosphorothioate	30 ppm
							Phorate	30 ppm
							Safrole, Total	30 ppm
							Sulfotepp	30 ppm
							Thionazin	30 ppm
							trans-Diallate	7.8 ppm
					MSS_8270_WS_00013	600 uL	2,4,6-Tribromophenol (Surr)	60 ppm
							2-Fluorobiphenyl (Surr)	60 ppm
							2-Fluorophenol (Surr)	60 ppm
							Nitrobenzene-d5 (Surr)	60 ppm
							p-Terphenyl-d14 (Surr)	60 ppm
							Phenol-d5 (Surr)	60 ppm
							Dibenz[a,j]acridine	30 ppm
							1,1'-Biphenyl	30 ppm
							1,2,4,5-Tetrachlorobenzene	30 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trichlorobenzene	30 ppm
							1,2-Dichlorobenzene	30 ppm
							1,2-Diphenylhydrazine	30 ppm
							1,3-Dichlorobenzene	30 ppm
							1,3-Dinitrobenzene	30 ppm
							1,4-Dichlorobenzene	30 ppm
							1,4-Dioxane	30 ppm
							1-Methylnaphthalene	30 ppm
							2,2'-oxybis[1-chloropropane]	30 ppm
							2,3,4,6-Tetrachlorophenol	30 ppm
							2,4,5-Trichlorophenol	30 ppm
							2,4,6-Trichlorophenol	30 ppm
							2,4-Dichlorophenol	30 ppm
							2,4-Dimethylphenol	30 ppm
							2,4-Dinitrophenol	70 ppm
							2,4-Dinitrotoluene	30 ppm
							2,6-Dichlorophenol	30 ppm
							2,6-Dinitrotoluene	30 ppm
							2-Chloronaphthalene	30 ppm
							2-Chlorophenol	30 ppm
							2-Methylnaphthalene	30 ppm
							2-Methylphenol	30 ppm
							2-Nitroaniline	30 ppm
							2-Nitrophenol	30 ppm
							3-Nitroaniline	30 ppm
							4,6-Dinitro-2-methylphenol	60 ppm
							4-Bromophenyl phenyl ether	30 ppm
							4-Chloro-3-methylphenol	30 ppm
							4-Chloroaniline	30 ppm
							4-Chlorophenyl phenyl ether	30 ppm
							4-Methylphenol	30 ppm
							4-Nitroaniline	30 ppm
							4-Nitrophenol	60 ppm
							Acenaphthene	30 ppm
							Acenaphthylene	30 ppm
							Acetophenone	30 ppm
							Aniline	30 ppm
							Anthracene	30 ppm
							Benzo[a]anthracene	30 ppm
							Benzo[a]pyrene	30 ppm
							Benzo[b]fluoranthene	30 ppm
							Benzo[g,h,i]perylene	30 ppm
							Benzo[k]fluoranthene	30 ppm
							Benzyl alcohol	30 ppm
							Bis(2-chloroethoxy)methane	30 ppm
							Bis(2-chloroethyl)ether	30 ppm
							Bis(2-ethylhexyl) phthalate	30 ppm
							Butylbenzylphthalate	30 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbazole	30 ppm
							Chrysene	30 ppm
							Di-n-butyl phthalate	30 ppm
							Di-n-octyl phthalate	30 ppm
							Dibenz(a,h)anthracene	30 ppm
							Dibenzofuran	30 ppm
							Diethylphthalate	30 ppm
							Dimethylphthalate	30 ppm
							Fluoranthene	30 ppm
							Fluorene	30 ppm
							Hexachlorobenzene	30 ppm
							Hexachlorobutadiene	30 ppm
							Hexachlorocyclopentadiene	30 ppm
							Hexachloroethane	30 ppm
							Indeno[1,2,3-cd]pyrene	30 ppm
							Isophorone	30 ppm
							N-Nitrosodi-n-propylamine	30 ppm
							N-Nitrosodimethylamine	30 ppm
							N-Nitrosodiphenylamine	25.5 ppm
							Naphthalene	30 ppm
							Nitrobenzene	30 ppm
							Pentachlorophenol	60 ppm
							Phenanthrene	30 ppm
							Phenol	30 ppm
							Pyrene	30 ppm
							Pyridine	60 ppm
							3,3'-Dichlorobenzidine	30 ppm
							Benzidine	90 ppm
							Alpha-Terpineol	30 ppm
							Dimethylformamide	30 ppm
							Octachlorostyrene	30 ppm
							Phenyl ether	30 ppm
					MSS_AB_24DNP_00008	50 uL	2,4-Dinitrophenol	70 ppm
					MSS_FV8270_IS_00005	100 uL	1,4-Dichlorobenzene-d4	20 ppm
							Acenaphthene-d10	20 ppm
							Naphthalene-d8	20 ppm
							Perylene-d12	20 ppm
							Phenanthrene-d10	20 ppm
							Pyrene-d10 (IS)	20 ppm
..MSS_8270_APWS_00012	04/30/23	11/03/22	MeCl2, Lot 224977	10 mL	MSS_AB_BZIDIN_00011	1000 uL	Benzidine	500 ppm
					OP_RES_APPX1_00008	2500 uL	1,3,5-Trinitrobenzene	250 ppm
							1,4-Dinitrobenzene	250 ppm
							1-Naphthylamine	250 ppm
							2-Acetylaminofluorene	250 ppm
							2-Naphthylamine	250 ppm
							2-Picoline	250 ppm
							2-Toluidine	250 ppm
							3,3'-Dimethylbenzidine	250 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4,4'-Methylene bis(2-chloroaniline)	250 ppm
							4-Aminobiphenyl	250 ppm
							4-Nitroquinoline-1-oxide	250 ppm
							Dibenz[a,h]acridine	250 ppm
							N-Nitro-o-toluidine	250 ppm
							N-Nitrosodi-n-butylamine	250 ppm
							N-Nitrosodiethylamine	250 ppm
							N-Nitrosomethylethylamine	250 ppm
							N-Nitrosomorpholine	250 ppm
							N-Nitrosopiperidine	250 ppm
							N-Nitrosopyrrolidine	250 ppm
							p-Dimethylamino azobenzene	250 ppm
							p-Phenylene diamine	250 ppm
							Pentachloronitrobenzene	250 ppm
							Phenacetin	250 ppm
							Pronamide	250 ppm
							Quinoline	250 ppm
					OP_RES_APPX2_00009	2500 uL	1,4-Naphthoquinone	250 ppm
							1-Chloronaphthalene	250 ppm
							7,12-Dimethylbenz(a)anthracene	250 ppm
							Chlorobenzilate	250 ppm
							Dinoseb	250 ppm
							Ethyl methanesulfonate	250 ppm
							Hexachloropropene	250 ppm
							Isodrin	250 ppm
							Isosafrole Peak 1	40 ppm
							Isosafrole Peak 2	210 ppm
							Methyl methanesulfonate	250 ppm
							Pentachlorobenzene	250 ppm
					OP_RES_APPX3_00006	1250 uL	3-Methylcholanthrene	250 ppm
							6-Methylchrysene	250 ppm
					OP_RES_APPX4_00007	2500 uL	cis-Diallate	185 ppm
							Dimethoate	250 ppm
							Disulfoton	250 ppm
							Ethyl Parathion	250 ppm
							Methyl parathion	250 ppm
							o,o',o''-Triethylphosphorothioate	250 ppm
							Phorate	250 ppm
							Safrole, Total	250 ppm
							Sulfotepp	250 ppm
							Thionazin	250 ppm
							trans-Diallate	65 ppm
...MSS_AB_BZIDIN_00011	12/06/24		Absolute, Lot 102722		(Purchased Reagent)		Benzidine	5000 ug/mL
...OP_RES_APPX1_00008	07/31/23		Restek, Lot A0187679		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,4-Dinitrobenzene	1000 ug/mL
							1-Naphthylamine	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Acetylaminofluorene	1000 ug/mL
							2-Naphthylamine	1000 ug/mL
							2-Picoline	1000 ug/mL
							2-Toluidine	1000 ug/mL
							3,3'-Dimethylbenzidine	1000 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	1000 ug/mL
							4-Aminobiphenyl	1000 ug/mL
							4-Nitroquinoline-1-oxide	1000 ug/mL
							Dibenz[a,h]acridine	1000 ug/mL
							N-Nitro-o-toluidine	1000 ug/mL
							N-Nitrosodi-n-butylamine	1000 ug/mL
							N-Nitrosodiethylamine	1000 ug/mL
							N-Nitrosomethylethylamine	1000 ug/mL
							N-Nitrosomorpholine	1000 ug/mL
							N-Nitrosopiperidine	1000 ug/mL
							N-Nitrosopyrrolidine	1000 ug/mL
							p-Dimethylamino azobenzene	1000 ug/mL
							p-Phenylene diamine	1000 ug/mL
							Pentachloronitrobenzene	1000 ug/mL
							Phenacetin	1000 ug/mL
							Pronamide	1000 ug/mL
							Quinoline	1000 ug/mL
...OP_RES_APPX2_00009	05/31/23		Restek, Lot A0185039		(Purchased Reagent)		1,4-Naphthoquinone	1000 ug/mL
							1-Chloronaphthalene	1000 ug/mL
							7,12-Dimethylbenz(a)anthracene	1000 ug/mL
							Chlorobenzilate	1000 ug/mL
							Dinoseb	1000 ug/mL
							Ethyl methanesulfonate	1000 ug/mL
							Hexachloropropene	1000 ug/mL
							Isodrin	1000 ug/mL
							Isosafrole Peak 1	160 ug/mL
							Isosafrole Peak 2	840 ug/mL
							Methyl methanesulfonate	1000 ug/mL
							Pentachlorobenzene	1000 ug/mL
...OP_RES_APPX3_00006	04/30/23		Restek, Lot A0184674		(Purchased Reagent)		3-Methylcholanthrene	2000 ug/mL
							6-Methylchrysene	2000 ug/mL
...OP_RES_APPX4_00007	01/31/24		Restek, Lot A0180903		(Purchased Reagent)		cis-Diallate	740 ug/mL
							Dimethoate	1000 ug/mL
							Disulfoton	1000 ug/mL
							Ethyl Parathion	1000 ug/mL
							Methyl parathion	1000 ug/mL
							o,o',o''-Triethylphosphorothioate	1000 ug/mL
							Phorate	1000 ug/mL
							Safrole, Total	1000 ug/mL
							Sulfotepp	1000 ug/mL
							Thionazin	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-Diallate	260 ug/mL
..MSS_8270_WS_00013	05/03/23	11/03/22	MeCl2, Lot 224977	10 mL	MSS_8270_SURR_00004	1250 uL	2,4,6-Tribromophenol (Surr)	500 ppm
							2-Fluorobiphenyl (Surr)	500 ppm
							2-Fluorophenol (Surr)	500 ppm
							Nitrobenzene-d5 (Surr)	500 ppm
							p-Terphenyl-d14 (Surr)	500 ppm
							Phenol-d5 (Surr)	500 ppm
					OP_RES_APPX6_00004	1250 uL	Dibenz[a,j]acridine	250 ppm
					OP_RES_LCS1_00008	2500 uL	1,1'-Biphenyl	250 ppm
							1,2,4,5-Tetrachlorobenzene	250 ppm
							1,2,4-Trichlorobenzene	250 ppm
							1,2-Dichlorobenzene	250 ppm
							1,2-Diphenylhydrazine	250 ppm
							1,3-Dichlorobenzene	250 ppm
							1,3-Dinitrobenzene	250 ppm
							1,4-Dichlorobenzene	250 ppm
							1,4-Dioxane	250 ppm
							1-Methylnaphthalene	250 ppm
							2,2'-oxybis[1-chloropropane]	250 ppm
							2,3,4,6-Tetrachlorophenol	250 ppm
							2,4,5-Trichlorophenol	250 ppm
							2,4,6-Trichlorophenol	250 ppm
							2,4-Dichlorophenol	250 ppm
							2,4-Dimethylphenol	250 ppm
							2,4-Dinitrophenol	500 ppm
							2,4-Dinitrotoluene	250 ppm
							2,6-Dichlorophenol	250 ppm
							2,6-Dinitrotoluene	250 ppm
							2-Chloronaphthalene	250 ppm
							2-Chlorophenol	250 ppm
							2-Methylnaphthalene	250 ppm
							2-Methylphenol	250 ppm
							2-Nitroaniline	250 ppm
							2-Nitrophenol	250 ppm
							3-Nitroaniline	250 ppm
							4,6-Dinitro-2-methylphenol	500 ppm
							4-Bromophenyl phenyl ether	250 ppm
							4-Chloro-3-methylphenol	250 ppm
							4-Chloroaniline	250 ppm
							4-Chlorophenyl phenyl ether	250 ppm
							4-Methylphenol	250 ppm
							4-Nitroaniline	250 ppm
							4-Nitrophenol	500 ppm
							Acenaphthene	250 ppm
							Acenaphthylene	250 ppm
							Acetophenone	250 ppm
							Aniline	250 ppm
							Anthracene	250 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[a]anthracene	250 ppm
							Benzo[a]pyrene	250 ppm
							Benzo[b]fluoranthene	250 ppm
							Benzo[g,h,i]perylene	250 ppm
							Benzo[k]fluoranthene	250 ppm
							Benzyl alcohol	250 ppm
							Bis(2-chloroethoxy)methane	250 ppm
							Bis(2-chloroethyl)ether	250 ppm
							Bis(2-ethylhexyl) phthalate	250 ppm
							Butylbenzylphthalate	250 ppm
							Carbazole	250 ppm
							Chrysene	250 ppm
							Di-n-butyl phthalate	250 ppm
							Di-n-octyl phthalate	250 ppm
							Dibenz(a,h)anthracene	250 ppm
							Dibenzofuran	250 ppm
							Diethylphthalate	250 ppm
							Dimethylphthalate	250 ppm
							Fluoranthene	250 ppm
							Fluorene	250 ppm
							Hexachlorobenzene	250 ppm
							Hexachlorobutadiene	250 ppm
							Hexachlorocyclopentadiene	250 ppm
							Hexachloroethane	250 ppm
							Indeno[1,2,3-cd]pyrene	250 ppm
							Isophorone	250 ppm
							N-Nitrosodi-n-propylamine	250 ppm
							N-Nitrosodimethylamine	250 ppm
							N-Nitrosodiphenylamine	212.5 ppm
							Naphthalene	250 ppm
							Nitrobenzene	250 ppm
							Pentachlorophenol	500 ppm
							Phenanthrene	250 ppm
							Phenol	250 ppm
							Pyrene	250 ppm
							Pyridine	500 ppm
					OP_RES_LCS2_00008	1250 uL	3,3'-Dichlorobenzidine	250 ppm
							Benzidine	250 ppm
					OP_RES_LCSadd_00001	1250 uL	Alpha-Terpineol	250 ppm
							Dimethylformamide	250 ppm
							Octachlorostyrene	250 ppm
							Phenyl ether	250 ppm
...MSS_8270_SURR_00004	10/31/23		Sigma- Aldrich, Lot LRAC8467		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	4000 ug/mL
							2-Fluorobiphenyl (Surr)	4000 ug/mL
							2-Fluorophenol (Surr)	4000 ug/mL
							Nitrobenzene-d5 (Surr)	4000 ug/mL
							p-Terphenyl-d14 (Surr)	4000 ug/mL
							Phenol-d5 (Surr)	4000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...OP_RES_APPX6_00004	08/31/24		Restek, Lot A0175669		(Purchased Reagent)		Dibenz[a,j]acridine	2000 ug/mL
...OP_RES_LCS1_00008	06/30/23		Restek, Lot A0179662		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butylbenzylphthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethylphthalate	1000 ug/mL
							Dimethylphthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	850 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
...OP_RES_LCS2_00008	07/31/23		Restek, Lot A0181121		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
...OP_RES_LCSadd_00001	12/31/23		Restek, Lot A0166837		(Purchased Reagent)		Alpha-Terpineol	2000 ug/mL
							Dimethylformamide	2000 ug/mL
							Octachlorostyrene	2000 ug/mL
							Phenyl ether	2000 ug/mL
..MSS_AB_24DNP_00008	09/21/23		Absolute, Lot 120920		(Purchased Reagent)		2,4-Dinitrophenol	1000 ug/mL
..MSS_FV8270_IS_00005	11/30/23		Restek, Lot A0166482		(Purchased Reagent)		1,4-Dichlorobenzene-d4	1000 ug/mL
							Acenaphthene-d10	1000 ug/mL
							Naphthalene-d8	1000 ug/mL
							Perylene-d12	1000 ug/mL
							Phenanthrene-d10	1000 ug/mL
							Pyrene-d10 (IS)	1000 ug/mL
MSS_RV8270_6_00036	11/30/22	11/03/22	MeCl2, Lot 224977	5 mL	MSS_BAS_WS_00006	625 uL	Atrazine	12.5 ppm
							Benzaldehyde	12.5 ppm
							Caprolactam	12.5 ppm
					MSS_FV8270_6_00043	1250 uL	Benzidine	37.5 ppm
							1,3,5-Trinitrobenzene	12.5 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dinitrobenzene	12.5 ppm
							1-Naphthylamine	12.5 ppm
							2-Acetylaminofluorene	12.5 ppm
							2-Naphthylamine	12.5 ppm
							2-Picoline	12.5 ppm
							2-Toluidine	12.5 ppm
							3,3'-Dimethylbenzidine	12.5 ppm
							4,4'-Methylene bis(2-chloroaniline)	12.5 ppm
							4-Aminobiphenyl	12.5 ppm
							4-Nitroquinoline-1-oxide	12.5 ppm
							Dibenz[a,h]acridine	12.5 ppm
							N-Nitro-o-toluidine	12.5 ppm
							N-Nitrosodi-n-butylamine	12.5 ppm
							N-Nitrosodiethylamine	12.5 ppm
							N-Nitrosomethylethylamine	12.5 ppm
							N-Nitrosomorpholine	12.5 ppm
							N-Nitrosopiperidine	12.5 ppm
							N-Nitrosopyrrolidine	12.5 ppm
							p-Dimethylamino azobenzene	12.5 ppm
							p-Phenylene diamine	12.5 ppm
							Pentachloronitrobenzene	12.5 ppm
							Phenacetin	12.5 ppm
							Pronamide	12.5 ppm
							Quinoline	12.5 ppm
							1,4-Naphthoquinone	12.5 ppm
							1-Chloronaphthalene	12.5 ppm
							7,12-Dimethylbenz(a)anthracene	12.5 ppm
							Chlorobenzilate	12.5 ppm
							Dinoseb	12.5 ppm
							Ethyl methanesulfonate	12.5 ppm
							Hexachloropropene	12.5 ppm
							Isodrin	12.5 ppm
							Isosafrole Peak 1	2 ppm
							Isosafrole Peak 2	10.5 ppm
							Methyl methanesulfonate	12.5 ppm
							Pentachlorobenzene	12.5 ppm
							3-Methylcholanthrene	12.5 ppm
							6-Methylchrysene	12.5 ppm
							cis-Diallate	9.25 ppm
							Dimethoate	12.5 ppm
							Disulfoton	12.5 ppm
							Ethyl Parathion	12.5 ppm
							Methyl parathion	12.5 ppm
							o,o',o''-Triethylphosphorothioate	12.5 ppm
							Phorate	12.5 ppm
							Safrole, Total	12.5 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Sulfotepp	12.5 ppm
							Thionazin	12.5 ppm
							trans-Diallate	3.25 ppm
							2,4,6-Tribromophenol (Surr)	25 ppm
							2-Fluorobiphenyl (Surr)	25 ppm
							2-Fluorophenol (Surr)	25 ppm
							Nitrobenzene-d5 (Surr)	25 ppm
							p-Terphenyl-d14 (Surr)	25 ppm
							Phenol-d5 (Surr)	25 ppm
							Dibenz[a,j]acridine	12.5 ppm
							1,1'-Biphenyl	12.5 ppm
							1,2,4,5-Tetrachlorobenzene	12.5 ppm
							1,2,4-Trichlorobenzene	12.5 ppm
							1,2-Dichlorobenzene	12.5 ppm
							1,2-Diphenylhydrazine	12.5 ppm
							1,3-Dichlorobenzene	12.5 ppm
							1,3-Dinitrobenzene	12.5 ppm
							1,4-Dichlorobenzene	12.5 ppm
							1,4-Dioxane	12.5 ppm
							1-Methylnaphthalene	12.5 ppm
							2,2'-oxybis[1-chloropropane]	12.5 ppm
							2,3,4,6-Tetrachlorophenol	12.5 ppm
							2,4,5-Trichlorophenol	12.5 ppm
							2,4,6-Trichlorophenol	12.5 ppm
							2,4-Dichlorophenol	12.5 ppm
							2,4-Dimethylphenol	12.5 ppm
							2,4-Dinitrophenol	25 ppm
							2,4-Dinitrotoluene	12.5 ppm
							2,6-Dichlorophenol	12.5 ppm
							2,6-Dinitrotoluene	12.5 ppm
							2-Chloronaphthalene	12.5 ppm
							2-Chlorophenol	12.5 ppm
							2-Methylnaphthalene	12.5 ppm
							2-Methylphenol	12.5 ppm
							2-Nitroaniline	12.5 ppm
							2-Nitrophenol	12.5 ppm
							3-Nitroaniline	12.5 ppm
							4,6-Dinitro-2-methylphenol	25 ppm
							4-Bromophenyl phenyl ether	12.5 ppm
							4-Chloro-3-methylphenol	12.5 ppm
							4-Chloroaniline	12.5 ppm
							4-Chlorophenyl phenyl ether	12.5 ppm
							4-Methylphenol	12.5 ppm
							4-Nitroaniline	12.5 ppm
							4-Nitrophenol	25 ppm
							Acenaphthene	12.5 ppm
							Acenaphthylene	12.5 ppm
							Acetophenone	12.5 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Aniline	12.5 ppm
							Anthracene	12.5 ppm
							Benzo[a]anthracene	12.5 ppm
							Benzo[a]pyrene	12.5 ppm
							Benzo[b]fluoranthene	12.5 ppm
							Benzo[g,h,i]perylene	12.5 ppm
							Benzo[k]fluoranthene	12.5 ppm
							Benzyl alcohol	12.5 ppm
							Bis(2-chloroethoxy)methane	12.5 ppm
							Bis(2-chloroethyl)ether	12.5 ppm
							Bis(2-ethylhexyl) phthalate	12.5 ppm
							Butylbenzylphthalate	12.5 ppm
							Carbazole	12.5 ppm
							Chrysene	12.5 ppm
							Di-n-butyl phthalate	12.5 ppm
							Di-n-octyl phthalate	12.5 ppm
							Dibenz(a,h)anthracene	12.5 ppm
							Dibenzofuran	12.5 ppm
							Diethylphthalate	12.5 ppm
							Dimethylphthalate	12.5 ppm
							Fluoranthene	12.5 ppm
							Fluorene	12.5 ppm
							Hexachlorobenzene	12.5 ppm
							Hexachlorobutadiene	12.5 ppm
							Hexachlorocyclopentadiene	12.5 ppm
							Hexachloroethane	12.5 ppm
							Indeno[1,2,3-cd]pyrene	12.5 ppm
							Isophorone	12.5 ppm
							N-Nitrosodi-n-propylamine	12.5 ppm
							N-Nitrosodimethylamine	12.5 ppm
							N-Nitrosodiphenylamine	10.625 ppm
							Naphthalene	12.5 ppm
							Nitrobenzene	12.5 ppm
							Pentachlorophenol	25 ppm
							Phenanthrene	12.5 ppm
							Phenol	12.5 ppm
							Pyrene	12.5 ppm
							Pyridine	25 ppm
							3,3'-Dichlorobenzidine	12.5 ppm
							Alpha-Terpineol	12.5 ppm
							Dimethylformamide	12.5 ppm
							Octachlorostyrene	12.5 ppm
							Phenyl ether	12.5 ppm
							1,4-Dichlorobenzene-d4	5 ppm
							Acenaphthene-d10	5 ppm
							Naphthalene-d8	5 ppm
							Perylene-d12	5 ppm
							Phenanthrene-d10	5 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pyrene-d10 (IS)	5 ppm
.MSS_BAS_WS_00006	11/30/22	05/18/22	MeCl2, Lot 217990	5 mL	OP_LCSmix2stk_00004	250 uL	Atrazine	100 ppm
							Benzaldehyde	100 ppm
							Caprolactam	100 ppm
..OP_LCSmix2stk_00004	11/30/22		Restek, Lot A0172244		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
.MSS_FV8270_6_00043	04/30/23	11/03/22	MeCl2, Lot 224977	5 mL	MSS_8270_APWS_00012	1000 uL	Benzidine	150 ppm
							1,3,5-Trinitrobenzene	50 ppm
							1,4-Dinitrobenzene	50 ppm
							1-Naphthylamine	50 ppm
							2-Acetylaminofluorene	50 ppm
							2-Naphthylamine	50 ppm
							2-Picoline	50 ppm
							2-Toluidine	50 ppm
							3,3'-Dimethylbenzidine	50 ppm
							4,4'-Methylene bis(2-chloroaniline)	50 ppm
							4-Aminobiphenyl	50 ppm
							4-Nitroquinoline-1-oxide	50 ppm
							Dibenz[a,h]acridine	50 ppm
							N-Nitro-o-toluidine	50 ppm
							N-Nitrosodi-n-butylamine	50 ppm
							N-Nitrosodiethylamine	50 ppm
							N-Nitrosomethylethylamine	50 ppm
							N-Nitrosomorpholine	50 ppm
							N-Nitrosopiperidine	50 ppm
							N-Nitrosopyrrolidine	50 ppm
							p-Dimethylamino azobenzene	50 ppm
							p-Phenylene diamine	50 ppm
							Pentachloronitrobenzene	50 ppm
							Phenacetin	50 ppm
							Pronamide	50 ppm
							Quinoline	50 ppm
							1,4-Naphthoquinone	50 ppm
							1-Chloronaphthalene	50 ppm
							7,12-Dimethylbenz(a)anthracene	50 ppm
							Chlorobenzilate	50 ppm
							Dinoseb	50 ppm
							Ethyl methanesulfonate	50 ppm
							Hexachloropropene	50 ppm
							Isodrin	50 ppm
							Isosafrole Peak 1	8 ppm
							Isosafrole Peak 2	42 ppm
							Methyl methanesulfonate	50 ppm
							Pentachlorobenzene	50 ppm
							3-Methylcholanthrene	50 ppm
							6-Methylchrysene	50 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							cis-Diallate	37 ppm
							Dimethoate	50 ppm
							Disulfoton	50 ppm
							Ethyl Parathion	50 ppm
							Methyl parathion	50 ppm
							o,o',o''-Triethylphosphorothioate	50 ppm
							Phorate	50 ppm
							Safrole, Total	50 ppm
							Sulfotepp	50 ppm
							Thionazin	50 ppm
							trans-Diallate	13 ppm
					MSS_8270_WS_00013	1000 uL	2,4,6-Tribromophenol (Surr)	100 ppm
							2-Fluorobiphenyl (Surr)	100 ppm
							2-Fluorophenol (Surr)	100 ppm
							Nitrobenzene-d5 (Surr)	100 ppm
							p-Terphenyl-d14 (Surr)	100 ppm
							Phenol-d5 (Surr)	100 ppm
							Dibenz[a,j]acridine	50 ppm
							1,1'-Biphenyl	50 ppm
							1,2,4,5-Tetrachlorobenzene	50 ppm
							1,2,4-Trichlorobenzene	50 ppm
							1,2-Dichlorobenzene	50 ppm
							1,2-Diphenylhydrazine	50 ppm
							1,3-Dichlorobenzene	50 ppm
							1,3-Dinitrobenzene	50 ppm
							1,4-Dichlorobenzene	50 ppm
							1,4-Dioxane	50 ppm
							1-Methylnaphthalene	50 ppm
							2,2'-oxybis[1-chloropropane]	50 ppm
							2,3,4,6-Tetrachlorophenol	50 ppm
							2,4,5-Trichlorophenol	50 ppm
							2,4,6-Trichlorophenol	50 ppm
							2,4-Dichlorophenol	50 ppm
							2,4-Dimethylphenol	50 ppm
							2,4-Dinitrophenol	100 ppm
							2,4-Dinitrotoluene	50 ppm
							2,6-Dichlorophenol	50 ppm
							2,6-Dinitrotoluene	50 ppm
							2-Chloronaphthalene	50 ppm
							2-Chlorophenol	50 ppm
							2-Methylnaphthalene	50 ppm
							2-Methylphenol	50 ppm
							2-Nitroaniline	50 ppm
							2-Nitrophenol	50 ppm
							3-Nitroaniline	50 ppm
							4,6-Dinitro-2-methylphenol	100 ppm
							4-Bromophenyl phenyl ether	50 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Chloro-3-methylphenol	50 ppm
							4-Chloroaniline	50 ppm
							4-Chlorophenyl phenyl ether	50 ppm
							4-Methylphenol	50 ppm
							4-Nitroaniline	50 ppm
							4-Nitrophenol	100 ppm
							Acenaphthene	50 ppm
							Acenaphthylene	50 ppm
							Acetophenone	50 ppm
							Aniline	50 ppm
							Anthracene	50 ppm
							Benzo[a]anthracene	50 ppm
							Benzo[a]pyrene	50 ppm
							Benzo[b]fluoranthene	50 ppm
							Benzo[g,h,i]perylene	50 ppm
							Benzo[k]fluoranthene	50 ppm
							Benzyl alcohol	50 ppm
							Bis(2-chloroethoxy)methane	50 ppm
							Bis(2-chloroethyl)ether	50 ppm
							Bis(2-ethylhexyl) phthalate	50 ppm
							Butylbenzylphthalate	50 ppm
							Carbazole	50 ppm
							Chrysene	50 ppm
							Di-n-butyl phthalate	50 ppm
							Di-n-octyl phthalate	50 ppm
							Dibenz(a,h)anthracene	50 ppm
							Dibenzofuran	50 ppm
							Diethylphthalate	50 ppm
							Dimethylphthalate	50 ppm
							Fluoranthene	50 ppm
							Fluorene	50 ppm
							Hexachlorobenzene	50 ppm
							Hexachlorobutadiene	50 ppm
							Hexachlorocyclopentadiene	50 ppm
							Hexachloroethane	50 ppm
							Indeno[1,2,3-cd]pyrene	50 ppm
							Isophorone	50 ppm
							N-Nitrosodi-n-propylamine	50 ppm
							N-Nitrosodimethylamine	50 ppm
							N-Nitrosodiphenylamine	42.5 ppm
							Naphthalene	50 ppm
							Nitrobenzene	50 ppm
							Pentachlorophenol	100 ppm
							Phenanthrene	50 ppm
							Phenol	50 ppm
							Pyrene	50 ppm
							Pyridine	100 ppm
							3,3'-Dichlorobenzidine	50 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzidine	150 ppm
							Alpha-Terpineol	50 ppm
							Dimethylformamide	50 ppm
							Octachlorostyrene	50 ppm
							Phenyl ether	50 ppm
					MSS_FV8270_IS_00005	100 uL	1,4-Dichlorobenzene-d4	20 ppm
							Acenaphthene-d10	20 ppm
							Naphthalene-d8	20 ppm
							Perylene-d12	20 ppm
							Phenanthrene-d10	20 ppm
							Pyrene-d10 (IS)	20 ppm
..MSS_8270_APWS_00012	04/30/23	11/03/22	MeCl2, Lot 224977	10 mL	MSS_AB_BZIDIN_00011	1000 uL	Benzidine	500 ppm
					OP_RES_APPX1_00008	2500 uL	1,3,5-Trinitrobenzene	250 ppm
							1,4-Dinitrobenzene	250 ppm
							1-Naphthylamine	250 ppm
							2-Acetylaminofluorene	250 ppm
							2-Naphthylamine	250 ppm
							2-Picoline	250 ppm
							2-Toluidine	250 ppm
							3,3'-Dimethylbenzidine	250 ppm
							4,4'-Methylene bis(2-chloroaniline)	250 ppm
							4-Aminobiphenyl	250 ppm
							4-Nitroquinoline-1-oxide	250 ppm
							Dibenz[a,h]acridine	250 ppm
							N-Nitro-o-toluidine	250 ppm
							N-Nitrosodi-n-butylamine	250 ppm
							N-Nitrosodiethylamine	250 ppm
							N-Nitrosomethylethylamine	250 ppm
							N-Nitrosomorpholine	250 ppm
							N-Nitrosopiperidine	250 ppm
							N-Nitrosopyrrolidine	250 ppm
							p-Dimethylamino azobenzene	250 ppm
							p-Phenylene diamine	250 ppm
							Pentachloronitrobenzene	250 ppm
							Phenacetin	250 ppm
							Pronamide	250 ppm
							Quinoline	250 ppm
					OP_RES_APPX2_00009	2500 uL	1,4-Naphthoquinone	250 ppm
							1-Chloronaphthalene	250 ppm
							7,12-Dimethylbenz(a)anthracene	250 ppm
							Chlorobenzilate	250 ppm
							Dinoseb	250 ppm
							Ethyl methanesulfonate	250 ppm
							Hexachloropropene	250 ppm
							Isodrin	250 ppm
							Isosafrole Peak 1	40 ppm
							Isosafrole Peak 2	210 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methyl methanesulfonate	250 ppm
							Pentachlorobenzene	250 ppm
					OP_RES_APPX3_00006	1250 uL	3-Methylcholanthrene	250 ppm
							6-Methylchrysene	250 ppm
					OP_RES_APPX4_00007	2500 uL	cis-Diallate	185 ppm
							Dimethoate	250 ppm
							Disulfoton	250 ppm
							Ethyl Parathion	250 ppm
							Methyl parathion	250 ppm
							o,o',o''-Triethylphosphorothioate	250 ppm
							Phorate	250 ppm
							Safrole, Total	250 ppm
							Sulfotepp	250 ppm
							Thionazin	250 ppm
							trans-Diallate	65 ppm
...MSS_AB_BZIDIN_00011	12/06/24		Absolute, Lot 102722		(Purchased Reagent)		Benzidine	5000 ug/mL
...OP_RES_APPX1_00008	07/31/23		Restek, Lot A0187679		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,4-Dinitrobenzene	1000 ug/mL
							1-Naphthylamine	1000 ug/mL
							2-Acetylaminofluorene	1000 ug/mL
							2-Naphthylamine	1000 ug/mL
							2-Picoline	1000 ug/mL
							2-Toluidine	1000 ug/mL
							3,3'-Dimethylbenzidine	1000 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	1000 ug/mL
							4-Aminobiphenyl	1000 ug/mL
							4-Nitroquinoline-1-oxide	1000 ug/mL
							Dibenz[a,h]acridine	1000 ug/mL
							N-Nitro-o-toluidine	1000 ug/mL
							N-Nitrosodi-n-butylamine	1000 ug/mL
							N-Nitrosodiethylamine	1000 ug/mL
							N-Nitrosomethylethylamine	1000 ug/mL
							N-Nitrosomorpholine	1000 ug/mL
							N-Nitrosopiperidine	1000 ug/mL
							N-Nitrosopyrrolidine	1000 ug/mL
							p-Dimethylamino azobenzene	1000 ug/mL
							p-Phenylene diamine	1000 ug/mL
							Pentachloronitrobenzene	1000 ug/mL
							Phenacetin	1000 ug/mL
							Pronamide	1000 ug/mL
							Quinoline	1000 ug/mL
...OP_RES_APPX2_00009	05/31/23		Restek, Lot A0185039		(Purchased Reagent)		1,4-Naphthoquinone	1000 ug/mL
							1-Chloronaphthalene	1000 ug/mL
							7,12-Dimethylbenz(a)anthracene	1000 ug/mL
							Chlorobenzilate	1000 ug/mL
							Dinoseb	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethyl methanesulfonate	1000 ug/mL
							Hexachloropropene	1000 ug/mL
							Isodrin	1000 ug/mL
							Isosafrole Peak 1	160 ug/mL
							Isosafrole Peak 2	840 ug/mL
							Methyl methanesulfonate	1000 ug/mL
							Pentachlorobenzene	1000 ug/mL
...OP_RES_APPX3_00006	04/30/23		Restek, Lot A0184674		(Purchased Reagent)		3-Methylcholanthrene	2000 ug/mL
							6-Methylchrysene	2000 ug/mL
...OP_RES_APPX4_00007	01/31/24		Restek, Lot A0180903		(Purchased Reagent)		cis-Diallate	740 ug/mL
							Dimethoate	1000 ug/mL
							Disulfoton	1000 ug/mL
							Ethyl Parathion	1000 ug/mL
							Methyl parathion	1000 ug/mL
							o,o',o''-Triethylphosphorothioate	1000 ug/mL
							Phorate	1000 ug/mL
							Safrole, Total	1000 ug/mL
							Sulfotepp	1000 ug/mL
							Thionazin	1000 ug/mL
							trans-Diallate	260 ug/mL
..MSS_8270_WS_00013	05/03/23	11/03/22	MeCl2, Lot 224977	10 mL	MSS_8270_SURR_00004	1250 uL	2,4,6-Tribromophenol (Surr)	500 ppm
							2-Fluorobiphenyl (Surr)	500 ppm
							2-Fluorophenol (Surr)	500 ppm
							Nitrobenzene-d5 (Surr)	500 ppm
							p-Terphenyl-d14 (Surr)	500 ppm
							Phenol-d5 (Surr)	500 ppm
					OP_RES_APPX6_00004	1250 uL	Dibenz[a,j]acridine	250 ppm
					OP_RES_LCS1_00008	2500 uL	1,1'-Biphenyl	250 ppm
							1,2,4,5-Tetrachlorobenzene	250 ppm
							1,2,4-Trichlorobenzene	250 ppm
							1,2-Dichlorobenzene	250 ppm
							1,2-Diphenylhydrazine	250 ppm
							1,3-Dichlorobenzene	250 ppm
							1,3-Dinitrobenzene	250 ppm
							1,4-Dichlorobenzene	250 ppm
							1,4-Dioxane	250 ppm
							1-Methylnaphthalene	250 ppm
							2,2'-oxybis[1-chloropropane]	250 ppm
							2,3,4,6-Tetrachlorophenol	250 ppm
							2,4,5-Trichlorophenol	250 ppm
							2,4,6-Trichlorophenol	250 ppm
							2,4-Dichlorophenol	250 ppm
							2,4-Dimethylphenol	250 ppm
							2,4-Dinitrophenol	500 ppm
							2,4-Dinitrotoluene	250 ppm
							2,6-Dichlorophenol	250 ppm
							2,6-Dinitrotoluene	250 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Chloronaphthalene	250 ppm
							2-Chlorophenol	250 ppm
							2-Methylnaphthalene	250 ppm
							2-Methylphenol	250 ppm
							2-Nitroaniline	250 ppm
							2-Nitrophenol	250 ppm
							3-Nitroaniline	250 ppm
							4,6-Dinitro-2-methylphenol	500 ppm
							4-Bromophenyl phenyl ether	250 ppm
							4-Chloro-3-methylphenol	250 ppm
							4-Chloroaniline	250 ppm
							4-Chlorophenyl phenyl ether	250 ppm
							4-Methylphenol	250 ppm
							4-Nitroaniline	250 ppm
							4-Nitrophenol	500 ppm
							Acenaphthene	250 ppm
							Acenaphthylene	250 ppm
							Acetophenone	250 ppm
							Aniline	250 ppm
							Anthracene	250 ppm
							Benzo[a]anthracene	250 ppm
							Benzo[a]pyrene	250 ppm
							Benzo[b]fluoranthene	250 ppm
							Benzo[g,h,i]perylene	250 ppm
							Benzo[k]fluoranthene	250 ppm
							Benzyl alcohol	250 ppm
							Bis(2-chloroethoxy)methane	250 ppm
							Bis(2-chloroethyl)ether	250 ppm
							Bis(2-ethylhexyl) phthalate	250 ppm
							Butylbenzylphthalate	250 ppm
							Carbazole	250 ppm
							Chrysene	250 ppm
							Di-n-butyl phthalate	250 ppm
							Di-n-octyl phthalate	250 ppm
							Dibenz(a,h)anthracene	250 ppm
							Dibenzofuran	250 ppm
							Diethylphthalate	250 ppm
							Dimethylphthalate	250 ppm
							Fluoranthene	250 ppm
							Fluorene	250 ppm
							Hexachlorobenzene	250 ppm
							Hexachlorobutadiene	250 ppm
							Hexachlorocyclopentadiene	250 ppm
							Hexachloroethane	250 ppm
							Indeno[1,2,3-cd]pyrene	250 ppm
							Isophorone	250 ppm
							N-Nitrosodi-n-propylamine	250 ppm
							N-Nitrosodimethylamine	250 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosodiphenylamine	212.5 ppm
							Naphthalene	250 ppm
							Nitrobenzene	250 ppm
							Pentachlorophenol	500 ppm
							Phenanthrene	250 ppm
							Phenol	250 ppm
							Pyrene	250 ppm
							Pyridine	500 ppm
					OP_RES_LCS2_00008	1250 uL	3,3'-Dichlorobenzidine	250 ppm
							Benzidine	250 ppm
					OP_RES_LCSadd_00001	1250 uL	Alpha-Terpineol	250 ppm
							Dimethylformamide	250 ppm
							Octachlorostyrene	250 ppm
							Phenyl ether	250 ppm
...MSS_8270_SURR_00004	10/31/23		Sigma- Aldrich, Lot LRAC8467		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	4000 ug/mL
							2-Fluorobiphenyl (Surr)	4000 ug/mL
							2-Fluorophenol (Surr)	4000 ug/mL
							Nitrobenzene-d5 (Surr)	4000 ug/mL
							p-Terphenyl-d14 (Surr)	4000 ug/mL
							Phenol-d5 (Surr)	4000 ug/mL
...OP_RES_APPX6_00004	08/31/24		Restek, Lot A0175669		(Purchased Reagent)		Dibenz[a,j]acridine	2000 ug/mL
...OP_RES_LCS1_00008	06/30/23		Restek, Lot A0179662		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butylbenzylphthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethylphthalate	1000 ug/mL
							Dimethylphthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	850 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pyridine	2000 ug/mL
...OP_RES_LCS2_00008	07/31/23		Restek, Lot A0181121		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
...OP_RES_LCSadd_00001	12/31/23		Restek, Lot A0166837		(Purchased Reagent)		Alpha-Terpineol	2000 ug/mL
							Dimethylformamide	2000 ug/mL
							Octachlorostyrene	2000 ug/mL
							Phenyl ether	2000 ug/mL
..MSS_FV8270_IS_00005	11/30/23		Restek, Lot A0166482		(Purchased Reagent)		1,4-Dichlorobenzene-d4	1000 ug/mL
							Acenaphthene-d10	1000 ug/mL
							Naphthalene-d8	1000 ug/mL
							Perylene-d12	1000 ug/mL
							Phenanthrene-d10	1000 ug/mL
							Pyrene-d10 (IS)	1000 ug/mL
MSS_RV8270_6_00037	04/30/23	11/23/22	MeCl2, Lot 222743	5 mL	MSS_FV8270_6_00045	1250 uL	1,4-Dichlorobenzene-d4	5 ppm
							Acenaphthene-d10	5 ppm
							Naphthalene-d8	5 ppm
							Perylene-d12	5 ppm
							Phenanthrene-d10	5 ppm
							Pyrene-d10 (IS)	5 ppm
.MSS_FV8270_6_00045	04/30/23	11/23/22	MeCl2, Lot 222743	5 mL	MSS_FV8270_IS_00005	100 uL	1,4-Dichlorobenzene-d4	20 ppm
							Acenaphthene-d10	20 ppm
							Naphthalene-d8	20 ppm
							Perylene-d12	20 ppm
							Phenanthrene-d10	20 ppm
							Pyrene-d10 (IS)	20 ppm
..MSS_FV8270_IS_00005	11/30/23		Restek, Lot A0166482		(Purchased Reagent)		1,4-Dichlorobenzene-d4	1000 ug/mL
							Acenaphthene-d10	1000 ug/mL
							Naphthalene-d8	1000 ug/mL
							Perylene-d12	1000 ug/mL
							Phenanthrene-d10	1000 ug/mL
							Pyrene-d10 (IS)	1000 ug/mL
MSS_RV8270_6_00037	04/30/23	11/23/22	MeCl2, Lot 222743	5 mL	MSS_FV8270_6_00045	1250 uL	2,4,6-Tribromophenol (Surr)	25 ppm
							2-Fluorobiphenyl (Surr)	25 ppm
							2-Fluorophenol (Surr)	25 ppm
							Nitrobenzene-d5 (Surr)	25 ppm
							p-Terphenyl-d14 (Surr)	25 ppm
							Phenol-d5 (Surr)	25 ppm
							2,4-Dimethylphenol	12.5 ppm
							2,4-Dinitrophenol	25 ppm
							2-Chlorophenol	12.5 ppm
							Carbazole	12.5 ppm
							Phenol	12.5 ppm
.MSS_FV8270_6_00045	04/30/23	11/23/22	MeCl2, Lot 222743	5 mL	MSS_8270_WS_00013	1000 uL	2,4,6-Tribromophenol (Surr)	100 ppm
							2-Fluorobiphenyl (Surr)	100 ppm
							2-Fluorophenol (Surr)	100 ppm
							Nitrobenzene-d5 (Surr)	100 ppm
							p-Terphenyl-d14 (Surr)	100 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenol-d5 (Surr)	100 ppm
							2,4-Dimethylphenol	50 ppm
							2,4-Dinitrophenol	100 ppm
							2-Chlorophenol	50 ppm
							Carbazole	50 ppm
							Phenol	50 ppm
..MSS_8270_WS_00013	05/03/23	11/03/22	MeCl2, Lot 224977	10 mL	MSS_8270_SURR_00004	1250 uL	2,4,6-Tribromophenol (Surr)	500 ppm
							2-Fluorobiphenyl (Surr)	500 ppm
							2-Fluorophenol (Surr)	500 ppm
							Nitrobenzene-d5 (Surr)	500 ppm
							p-Terphenyl-d14 (Surr)	500 ppm
							Phenol-d5 (Surr)	500 ppm
					OP_RES_LCS1_00008	2500 uL	2,4-Dimethylphenol	250 ppm
							2,4-Dinitrophenol	500 ppm
							2-Chlorophenol	250 ppm
							Carbazole	250 ppm
							Phenol	250 ppm
...MSS_8270_SURR_00004	10/31/23	Sigma- Aldrich, Lot LRAC8467			(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	4000 ug/mL
							2-Fluorobiphenyl (Surr)	4000 ug/mL
							2-Fluorophenol (Surr)	4000 ug/mL
							Nitrobenzene-d5 (Surr)	4000 ug/mL
							p-Terphenyl-d14 (Surr)	4000 ug/mL
							Phenol-d5 (Surr)	4000 ug/mL
...OP_RES_LCS1_00008	06/30/23	Restek, Lot A0179662			(Purchased Reagent)		2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2-Chlorophenol	1000 ug/mL
							Carbazole	1000 ug/mL
							Phenol	1000 ug/mL
MSS_RV8270_7_00026	11/30/22	11/03/22	MeCl2, Lot 224977	1 mL	MSS_BAS_WS_00006	200 uL	Atrazine	20 ppm
							Benzaldehyde	20 ppm
							Caprolactam	20 ppm
					MSS_FV8270_7_00028	250 uL	Benzidine	60 ppm
							1,3,5-Trinitrobenzene	20 ppm
							1,4-Dinitrobenzene	20 ppm
							1-Naphthylamine	20 ppm
							2-Acetylaminofluorene	20 ppm
							2-Naphthylamine	20 ppm
							2-Picoline	20 ppm
							2-Toluidine	20 ppm
							3,3'-Dimethylbenzidine	20 ppm
							4,4'-Methylene bis(2-chloroaniline)	20 ppm
							4-Aminobiphenyl	20 ppm
							4-Nitroquinoline-1-oxide	20 ppm
							Dibenz[a,h]acridine	20 ppm
							N-Nitro-o-toluidine	20 ppm
							N-Nitrosodi-n-butylamine	20 ppm
							N-Nitrosodiethylamine	20 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosomethylethylamine	20 ppm
							N-Nitrosomorpholine	20 ppm
							N-Nitrosopiperidine	20 ppm
							N-Nitrosopyrrolidine	20 ppm
							p-Dimethylamino azobenzene	20 ppm
							p-Phenylene diamine	20 ppm
							Pentachloronitrobenzene	20 ppm
							Phenacetin	20 ppm
							Pronamide	20 ppm
							Quinoline	20 ppm
							1,4-Naphthoquinone	20 ppm
							1-Chloronaphthalene	20 ppm
							7,12-Dimethylbenz(a)anthracene	20 ppm
							Chlorobenzilate	20 ppm
							Dinoseb	20 ppm
							Ethyl methanesulfonate	20 ppm
							Hexachloropropene	20 ppm
							Isodrin	20 ppm
							Isosafrole Peak 1	3.2 ppm
							Isosafrole Peak 2	16.8 ppm
							Methyl methanesulfonate	20 ppm
							Pentachlorobenzene	20 ppm
							3-Methylcholanthrene	20 ppm
							6-Methylchrysene	20 ppm
							cis-Diallate	14.8 ppm
							Dimethoate	20 ppm
							Disulfoton	20 ppm
							Ethyl Parathion	20 ppm
							Methyl parathion	20 ppm
							o,o',o''-Triethylphosphorothioate	20 ppm
							Phorate	20 ppm
							Safrole, Total	20 ppm
							Sulfotepp	20 ppm
							Thionazin	20 ppm
							trans-Diallate	5.2 ppm
							2,4,6-Tribromophenol (Surr)	40 ppm
							2-Fluorobiphenyl (Surr)	40 ppm
							2-Fluorophenol (Surr)	40 ppm
							Nitrobenzene-d5 (Surr)	40 ppm
							p-Terphenyl-d14 (Surr)	40 ppm
							Phenol-d5 (Surr)	40 ppm
							Dibenz[a,j]acridine	20 ppm
							1,1'-Biphenyl	20 ppm
							1,2,4,5-Tetrachlorobenzene	20 ppm
							1,2,4-Trichlorobenzene	20 ppm
							1,2-Dichlorobenzene	20 ppm
							1,2-Diphenylhydrazine	20 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dichlorobenzene	20 ppm
							1,3-Dinitrobenzene	20 ppm
							1,4-Dichlorobenzene	20 ppm
							1,4-Dioxane	20 ppm
							1-Methylnaphthalene	20 ppm
							2,2'-oxybis[1-chloropropane]	20 ppm
							2,3,4,6-Tetrachlorophenol	20 ppm
							2,4,5-Trichlorophenol	20 ppm
							2,4,6-Trichlorophenol	20 ppm
							2,4-Dichlorophenol	20 ppm
							2,4-Dimethylphenol	20 ppm
							2,4-Dinitrophenol	40 ppm
							2,4-Dinitrotoluene	20 ppm
							2,6-Dichlorophenol	20 ppm
							2,6-Dinitrotoluene	20 ppm
							2-Chloronaphthalene	20 ppm
							2-Chlorophenol	20 ppm
							2-Methylnaphthalene	20 ppm
							2-Methylphenol	20 ppm
							2-Nitroaniline	20 ppm
							2-Nitrophenol	20 ppm
							3-Nitroaniline	20 ppm
							4,6-Dinitro-2-methylphenol	40 ppm
							4-Bromophenyl phenyl ether	20 ppm
							4-Chloro-3-methylphenol	20 ppm
							4-Chloroaniline	20 ppm
							4-Chlorophenyl phenyl ether	20 ppm
							4-Methylphenol	20 ppm
							4-Nitroaniline	20 ppm
							4-Nitrophenol	40 ppm
							Acenaphthene	20 ppm
							Acenaphthylene	20 ppm
							Acetophenone	20 ppm
							Aniline	20 ppm
							Anthracene	20 ppm
							Benzo[a]anthracene	20 ppm
							Benzo[a]pyrene	20 ppm
							Benzo[b]fluoranthene	20 ppm
							Benzo[g,h,i]perylene	20 ppm
							Benzo[k]fluoranthene	20 ppm
							Benzyl alcohol	20 ppm
							Bis(2-chloroethoxy)methane	20 ppm
							Bis(2-chloroethyl)ether	20 ppm
							Bis(2-ethylhexyl) phthalate	20 ppm
							Butylbenzylphthalate	20 ppm
							Carbazole	20 ppm
							Chrysene	20 ppm
							Di-n-butyl phthalate	20 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Di-n-octyl phthalate	20 ppm
							Dibenz(a,h)anthracene	20 ppm
							Dibenzofuran	20 ppm
							Diethylphthalate	20 ppm
							Dimethylphthalate	20 ppm
							Fluoranthene	20 ppm
							Fluorene	20 ppm
							Hexachlorobenzene	20 ppm
							Hexachlorobutadiene	20 ppm
							Hexachlorocyclopentadiene	20 ppm
							Hexachloroethane	20 ppm
							Indeno[1,2,3-cd]pyrene	20 ppm
							Isophorone	20 ppm
							N-Nitrosodi-n-propylamine	20 ppm
							N-Nitrosodimethylamine	20 ppm
							N-Nitrosodiphenylamine	17 ppm
							Naphthalene	20 ppm
							Nitrobenzene	20 ppm
							Pentachlorophenol	40 ppm
							Phenanthrene	20 ppm
							Phenol	20 ppm
							Pyrene	20 ppm
							Pyridine	40 ppm
							3,3'-Dichlorobenzidine	20 ppm
							Alpha-Terpineol	20 ppm
							Dimethylformamide	20 ppm
							Octachlorostyrene	20 ppm
							Phenyl ether	20 ppm
							1,4-Dichlorobenzene-d4	5 ppm
							Acenaphthene-d10	5 ppm
							Naphthalene-d8	5 ppm
							Perylene-d12	5 ppm
							Phenanthrene-d10	5 ppm
							Pyrene-d10 (IS)	5 ppm
.MSS_BAS_WS_00006	11/30/22	05/18/22	MeCl2, Lot 217990	5 mL	OP_LCSmix2stk_00004	250 uL	Atrazine	100 ppm
							Benzaldehyde	100 ppm
							Caprolactam	100 ppm
..OP_LCSmix2stk_00004	11/30/22		Restek, Lot A0172244		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
.MSS_FV8270_7_00028	04/30/23	11/03/22	MeCl2, Lot 224977	2 mL	MSS_8270_APWS_00012	640 uL	Benzidine	240 ppm
							1,3,5-Trinitrobenzene	80 ppm
							1,4-Dinitrobenzene	80 ppm
							1-Naphthylamine	80 ppm
							2-Acetylaminofluorene	80 ppm
							2-Naphthylamine	80 ppm
							2-Picoline	80 ppm
							2-Toluidine	80 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3,3'-Dimethylbenzidine	80 ppm
							4,4'-Methylene bis(2-chloroaniline)	80 ppm
							4-Aminobiphenyl	80 ppm
							4-Nitroquinoline-1-oxide	80 ppm
							Dibenz[a,h]acridine	80 ppm
							N-Nitro-o-toluidine	80 ppm
							N-Nitrosodi-n-butylamine	80 ppm
							N-Nitrosodiethylamine	80 ppm
							N-Nitrosomethylethylamine	80 ppm
							N-Nitrosomorpholine	80 ppm
							N-Nitrosopiperidine	80 ppm
							N-Nitrosopyrrolidine	80 ppm
							p-Dimethylamino azobenzene	80 ppm
							p-Phenylene diamine	80 ppm
							Pentachloronitrobenzene	80 ppm
							Phenacetin	80 ppm
							Pronamide	80 ppm
							Quinoline	80 ppm
							1,4-Naphthoquinone	80 ppm
							1-Chloronaphthalene	80 ppm
							7,12-Dimethylbenz(a)anthracene	80 ppm
							Chlorobenzilate	80 ppm
							Dinoseb	80 ppm
							Ethyl methanesulfonate	80 ppm
							Hexachloropropene	80 ppm
							Isodrin	80 ppm
							Isosafrole Peak 1	12.8 ppm
							Isosafrole Peak 2	67.2 ppm
							Methyl methanesulfonate	80 ppm
							Pentachlorobenzene	80 ppm
							3-Methylcholanthrene	80 ppm
							6-Methylchrysene	80 ppm
							cis-Diallate	59.2 ppm
							Dimethoate	80 ppm
							Disulfoton	80 ppm
							Ethyl Parathion	80 ppm
							Methyl parathion	80 ppm
							o,o',o''-Triethylphosphorothioate	80 ppm
							Phorate	80 ppm
							Safrole, Total	80 ppm
							Sulfotepp	80 ppm
							Thionazin	80 ppm
							trans-Diallate	20.8 ppm
					MSS_8270_WS_00013	640 uL	2,4,6-Tribromophenol (Surr)	160 ppm
							2-Fluorobiphenyl (Surr)	160 ppm
							2-Fluorophenol (Surr)	160 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Nitrobenzene-d5 (Surr)	160 ppm
							p-Terphenyl-d14 (Surr)	160 ppm
							Phenol-d5 (Surr)	160 ppm
							Dibenz[a,j]acridine	80 ppm
							1,1'-Biphenyl	80 ppm
							1,2,4,5-Tetrachlorobenzene	80 ppm
							1,2,4-Trichlorobenzene	80 ppm
							1,2-Dichlorobenzene	80 ppm
							1,2-Diphenylhydrazine	80 ppm
							1,3-Dichlorobenzene	80 ppm
							1,3-Dinitrobenzene	80 ppm
							1,4-Dichlorobenzene	80 ppm
							1,4-Dioxane	80 ppm
							1-Methylnaphthalene	80 ppm
							2,2'-oxybis[1-chloropropane]	80 ppm
							2,3,4,6-Tetrachlorophenol	80 ppm
							2,4,5-Trichlorophenol	80 ppm
							2,4,6-Trichlorophenol	80 ppm
							2,4-Dichlorophenol	80 ppm
							2,4-Dimethylphenol	80 ppm
							2,4-Dinitrophenol	160 ppm
							2,4-Dinitrotoluene	80 ppm
							2,6-Dichlorophenol	80 ppm
							2,6-Dinitrotoluene	80 ppm
							2-Chloronaphthalene	80 ppm
							2-Chlorophenol	80 ppm
							2-Methylnaphthalene	80 ppm
							2-Methylphenol	80 ppm
							2-Nitroaniline	80 ppm
							2-Nitrophenol	80 ppm
							3-Nitroaniline	80 ppm
							4,6-Dinitro-2-methylphenol	160 ppm
							4-Bromophenyl phenyl ether	80 ppm
							4-Chloro-3-methylphenol	80 ppm
							4-Chloroaniline	80 ppm
							4-Chlorophenyl phenyl ether	80 ppm
							4-Methylphenol	80 ppm
							4-Nitroaniline	80 ppm
							4-Nitrophenol	160 ppm
							Acenaphthene	80 ppm
							Acenaphthylene	80 ppm
							Acetophenone	80 ppm
							Aniline	80 ppm
							Anthracene	80 ppm
							Benzo[a]anthracene	80 ppm
							Benzo[a]pyrene	80 ppm
							Benzo[b]fluoranthene	80 ppm
							Benzo[g,h,i]perylene	80 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[k]fluoranthene	80 ppm
							Benzyl alcohol	80 ppm
							Bis(2-chloroethoxy)methane	80 ppm
							Bis(2-chloroethyl)ether	80 ppm
							Bis(2-ethylhexyl) phthalate	80 ppm
							Butylbenzylphthalate	80 ppm
							Carbazole	80 ppm
							Chrysene	80 ppm
							Di-n-butyl phthalate	80 ppm
							Di-n-octyl phthalate	80 ppm
							Dibenz(a,h)anthracene	80 ppm
							Dibenzofuran	80 ppm
							Diethylphthalate	80 ppm
							Dimethylphthalate	80 ppm
							Fluoranthene	80 ppm
							Fluorene	80 ppm
							Hexachlorobenzene	80 ppm
							Hexachlorobutadiene	80 ppm
							Hexachlorocyclopentadiene	80 ppm
							Hexachloroethane	80 ppm
							Indeno[1,2,3-cd]pyrene	80 ppm
							Isophorone	80 ppm
							N-Nitrosodi-n-propylamine	80 ppm
							N-Nitrosodimethylamine	80 ppm
							N-Nitrosodiphenylamine	68 ppm
							Naphthalene	80 ppm
							Nitrobenzene	80 ppm
							Pentachlorophenol	160 ppm
							Phenanthrene	80 ppm
							Phenol	80 ppm
							Pyrene	80 ppm
							Pyridine	160 ppm
							3,3'-Dichlorobenzidine	80 ppm
							Benzidine	240 ppm
							Alpha-Terpineol	80 ppm
							Dimethylformamide	80 ppm
							Octachlorostyrene	80 ppm
							Phenyl ether	80 ppm
					MSS_FV8270_IS_00005	40 uL	1,4-Dichlorobenzene-d4	20 ppm
							Acenaphthene-d10	20 ppm
							Naphthalene-d8	20 ppm
							Perylene-d12	20 ppm
							Phenanthrene-d10	20 ppm
							Pyrene-d10 (IS)	20 ppm
..MSS_8270_APWS_00012	04/30/23	11/03/22	MeCl2, Lot 224977	10 mL	MSS_AB_BZIDIN_00011	1000 uL	Benzidine	500 ppm
					OP_RES_APPX1_00008	2500 uL	1,3,5-Trinitrobenzene	250 ppm
							1,4-Dinitrobenzene	250 ppm
							1-Naphthylamine	250 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Acetylaminofluorene	250 ppm
							2-Naphthylamine	250 ppm
							2-Picoline	250 ppm
							2-Toluidine	250 ppm
							3,3'-Dimethylbenzidine	250 ppm
							4,4'-Methylene bis(2-chloroaniline)	250 ppm
							4-Aminobiphenyl	250 ppm
							4-Nitroquinoline-1-oxide	250 ppm
							Dibenz[a,h]acridine	250 ppm
							N-Nitro-o-toluidine	250 ppm
							N-Nitrosodi-n-butylamine	250 ppm
							N-Nitrosodiethylamine	250 ppm
							N-Nitrosomethylethylamine	250 ppm
							N-Nitrosomorpholine	250 ppm
							N-Nitrosopiperidine	250 ppm
							N-Nitrosopyrrolidine	250 ppm
							p-Dimethylamino azobenzene	250 ppm
							p-Phenylene diamine	250 ppm
							Pentachloronitrobenzene	250 ppm
							Phenacetin	250 ppm
							Pronamide	250 ppm
							Quinoline	250 ppm
					OP_RES_APPX2_00009	2500 uL	1,4-Naphthoquinone	250 ppm
							1-Chloronaphthalene	250 ppm
							7,12-Dimethylbenz(a)anthracene	250 ppm
							Chlorobenzilate	250 ppm
							Dinoseb	250 ppm
							Ethyl methanesulfonate	250 ppm
							Hexachloropropene	250 ppm
							Isodrin	250 ppm
							Isosafrole Peak 1	40 ppm
							Isosafrole Peak 2	210 ppm
							Methyl methanesulfonate	250 ppm
							Pentachlorobenzene	250 ppm
					OP_RES_APPX3_00006	1250 uL	3-Methylcholanthrene	250 ppm
							6-Methylchrysene	250 ppm
					OP_RES_APPX4_00007	2500 uL	cis-Diallate	185 ppm
							Dimethoate	250 ppm
							Disulfoton	250 ppm
							Ethyl Parathion	250 ppm
							Methyl parathion	250 ppm
							o,o',o''-Triethylphosphorothioate	250 ppm
							Phorate	250 ppm
							Safrole, Total	250 ppm
							Sulfotepp	250 ppm
							Thionazin	250 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-Diallate	65 ppm
...MSS_AB_BZIDIN_00011	12/06/24		Absolute, Lot 102722		(Purchased Reagent)		Benzidine	5000 ug/mL
...OP_RES_APPX1_00008	07/31/23		Restek, Lot A0187679		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,4-Dinitrobenzene	1000 ug/mL
							1-Naphthylamine	1000 ug/mL
							2-Acetylaminofluorene	1000 ug/mL
							2-Naphthylamine	1000 ug/mL
							2-Picoline	1000 ug/mL
							2-Toluidine	1000 ug/mL
							3,3'-Dimethylbenzidine	1000 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	1000 ug/mL
							4-Aminobiphenyl	1000 ug/mL
							4-Nitroquinoline-1-oxide	1000 ug/mL
							Dibenz[a,h]acridine	1000 ug/mL
							N-Nitro-o-toluidine	1000 ug/mL
							N-Nitrosodi-n-butylamine	1000 ug/mL
							N-Nitrosodiethylamine	1000 ug/mL
							N-Nitrosomethylethylamine	1000 ug/mL
							N-Nitrosomorpholine	1000 ug/mL
							N-Nitrosopiperidine	1000 ug/mL
							N-Nitrosopyrrolidine	1000 ug/mL
							p-Dimethylamino azobenzene	1000 ug/mL
							p-Phenylene diamine	1000 ug/mL
							Pentachloronitrobenzene	1000 ug/mL
							Phenacetin	1000 ug/mL
							Pronamide	1000 ug/mL
							Quinoline	1000 ug/mL
...OP_RES_APPX2_00009	05/31/23		Restek, Lot A0185039		(Purchased Reagent)		1,4-Naphthoquinone	1000 ug/mL
							1-Chloronaphthalene	1000 ug/mL
							7,12-Dimethylbenz(a)anthracene	1000 ug/mL
							Chlorobenzilate	1000 ug/mL
							Dinoseb	1000 ug/mL
							Ethyl methanesulfonate	1000 ug/mL
							Hexachloropropene	1000 ug/mL
							Isodrin	1000 ug/mL
							Isosafrole Peak 1	160 ug/mL
							Isosafrole Peak 2	840 ug/mL
							Methyl methanesulfonate	1000 ug/mL
							Pentachlorobenzene	1000 ug/mL
...OP_RES_APPX3_00006	04/30/23		Restek, Lot A0184674		(Purchased Reagent)		3-Methylcholanthrene	2000 ug/mL
							6-Methylchrysene	2000 ug/mL
...OP_RES_APPX4_00007	01/31/24		Restek, Lot A0180903		(Purchased Reagent)		cis-Diallate	740 ug/mL
							Dimethoate	1000 ug/mL
							Disulfoton	1000 ug/mL
							Ethyl Parathion	1000 ug/mL
							Methyl parathion	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							o,o',o''-Triethylphosphorothioate	1000 ug/mL
							Phorate	1000 ug/mL
							Safrole, Total	1000 ug/mL
							Sulfotepp	1000 ug/mL
							Thionazin	1000 ug/mL
							trans-Diallate	260 ug/mL
..MSS_8270_WS_00013	05/03/23	11/03/22	MeCl2, Lot 224977	10 mL	MSS_8270_SURR_00004	1250 uL	2,4,6-Tribromophenol (Surr)	500 ppm
							2-Fluorobiphenyl (Surr)	500 ppm
							2-Fluorophenol (Surr)	500 ppm
							Nitrobenzene-d5 (Surr)	500 ppm
							p-Terphenyl-d14 (Surr)	500 ppm
							Phenol-d5 (Surr)	500 ppm
					OP_RES_APPX6_00004	1250 uL	Dibenz[a,j]acridine	250 ppm
					OP_RES_LCS1_00008	2500 uL	1,1'-Biphenyl	250 ppm
							1,2,4,5-Tetrachlorobenzene	250 ppm
							1,2,4-Trichlorobenzene	250 ppm
							1,2-Dichlorobenzene	250 ppm
							1,2-Diphenylhydrazine	250 ppm
							1,3-Dichlorobenzene	250 ppm
							1,3-Dinitrobenzene	250 ppm
							1,4-Dichlorobenzene	250 ppm
							1,4-Dioxane	250 ppm
							1-Methylnaphthalene	250 ppm
							2,2'-oxybis[1-chloropropane]	250 ppm
							2,3,4,6-Tetrachlorophenol	250 ppm
							2,4,5-Trichlorophenol	250 ppm
							2,4,6-Trichlorophenol	250 ppm
							2,4-Dichlorophenol	250 ppm
							2,4-Dimethylphenol	250 ppm
							2,4-Dinitrophenol	500 ppm
							2,4-Dinitrotoluene	250 ppm
							2,6-Dichlorophenol	250 ppm
							2,6-Dinitrotoluene	250 ppm
							2-Chloronaphthalene	250 ppm
							2-Chlorophenol	250 ppm
							2-Methylnaphthalene	250 ppm
							2-Methylphenol	250 ppm
							2-Nitroaniline	250 ppm
							2-Nitrophenol	250 ppm
							3-Nitroaniline	250 ppm
							4,6-Dinitro-2-methylphenol	500 ppm
							4-Bromophenyl phenyl ether	250 ppm
							4-Chloro-3-methylphenol	250 ppm
							4-Chloroaniline	250 ppm
							4-Chlorophenyl phenyl ether	250 ppm
							4-Methylphenol	250 ppm
							4-Nitroaniline	250 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Nitrophenol	500 ppm
							Acenaphthene	250 ppm
							Acenaphthylene	250 ppm
							Acetophenone	250 ppm
							Aniline	250 ppm
							Anthracene	250 ppm
							Benzo[a]anthracene	250 ppm
							Benzo[a]pyrene	250 ppm
							Benzo[b]fluoranthene	250 ppm
							Benzo[g,h,i]perylene	250 ppm
							Benzo[k]fluoranthene	250 ppm
							Benzyl alcohol	250 ppm
							Bis(2-chloroethoxy)methane	250 ppm
							Bis(2-chloroethyl)ether	250 ppm
							Bis(2-ethylhexyl) phthalate	250 ppm
							Butylbenzylphthalate	250 ppm
							Carbazole	250 ppm
							Chrysene	250 ppm
							Di-n-butyl phthalate	250 ppm
							Di-n-octyl phthalate	250 ppm
							Dibenz(a,h)anthracene	250 ppm
							Dibenzofuran	250 ppm
							Diethylphthalate	250 ppm
							Dimethylphthalate	250 ppm
							Fluoranthene	250 ppm
							Fluorene	250 ppm
							Hexachlorobenzene	250 ppm
							Hexachlorobutadiene	250 ppm
							Hexachlorocyclopentadiene	250 ppm
							Hexachloroethane	250 ppm
							Indeno[1,2,3-cd]pyrene	250 ppm
							Isophorone	250 ppm
							N-Nitrosodi-n-propylamine	250 ppm
							N-Nitrosodimethylamine	250 ppm
							N-Nitrosodiphenylamine	212.5 ppm
							Naphthalene	250 ppm
							Nitrobenzene	250 ppm
							Pentachlorophenol	500 ppm
							Phenanthrene	250 ppm
							Phenol	250 ppm
							Pyrene	250 ppm
							Pyridine	500 ppm
					OP_RES_LCS2_00008	1250 uL	3,3'-Dichlorobenzidine	250 ppm
							Benzidine	250 ppm
					OP_RES_LCSadd_00001	1250 uL	Alpha-Terpineol	250 ppm
							Dimethylformamide	250 ppm
							Octachlorostyrene	250 ppm
							Phenyl ether	250 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...MSS_8270_SURR_00004	10/31/23		Sigma- Aldrich, Lot LRAC8467		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	4000 ug/mL
							2-Fluorobiphenyl (Surr)	4000 ug/mL
							2-Fluorophenol (Surr)	4000 ug/mL
							Nitrobenzene-d5 (Surr)	4000 ug/mL
							p-Terphenyl-d14 (Surr)	4000 ug/mL
							Phenol-d5 (Surr)	4000 ug/mL
...OP_RES_APPX6_00004	08/31/24		Restek, Lot A0175669		(Purchased Reagent)		Dibenz[a,j]acridine	2000 ug/mL
...OP_RES_LCS1_00008	06/30/23		Restek, Lot A0179662		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butylbenzylphthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethylphthalate	1000 ug/mL
							Dimethylphthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	850 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
...OP_RES_LCS2_00008	07/31/23		Restek, Lot A0181121		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
...OP_RES_LCSadd_00001	12/31/23		Restek, Lot A0166837		(Purchased Reagent)		Alpha-Terpineol	2000 ug/mL
							Dimethylformamide	2000 ug/mL
							Octachlorostyrene	2000 ug/mL
							Phenyl ether	2000 ug/mL
..MSS_FV8270_IS_00005	11/30/23		Restek, Lot A0166482		(Purchased Reagent)		1,4-Dichlorobenzene-d4	1000 ug/mL
							Acenaphthene-d10	1000 ug/mL
							Naphthalene-d8	1000 ug/mL
							Perylene-d12	1000 ug/mL
							Phenanthrene-d10	1000 ug/mL
							Pyrene-d10 (IS)	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
MSS_RV8270_8_00027	11/30/22	11/03/22	MeCl2, Lot 224977	1 mL	MSS_BAS_WS_00006	300 uL	Atrazine	30 ppm
							Benzaldehyde	30 ppm
							Caprolactam	30 ppm
					MSS_FV8270_8_00027	250 uL	Benzidine	90 ppm
							1,3,5-Trinitrobenzene	30 ppm
							1,4-Dinitrobenzene	30 ppm
							1-Naphthylamine	30 ppm
							2-Acetylaminofluorene	30 ppm
							2-Naphthylamine	30 ppm
							2-Picoline	30 ppm
							2-Toluidine	30 ppm
							3,3'-Dimethylbenzidine	30 ppm
							4,4'-Methylene bis(2-chloroaniline)	30 ppm
							4-Aminobiphenyl	30 ppm
							4-Nitroquinoline-1-oxide	30 ppm
							Dibenz[a,h]acridine	30 ppm
							N-Nitro-o-toluidine	30 ppm
							N-Nitrosodi-n-butylamine	30 ppm
							N-Nitrosodiethylamine	30 ppm
							N-Nitrosomethylethylamine	30 ppm
							N-Nitrosomorpholine	30 ppm
							N-Nitrosopiperidine	30 ppm
							N-Nitrosopyrrolidine	30 ppm
							p-Dimethylamino azobenzene	30 ppm
							p-Phenylene diamine	30 ppm
							Pentachloronitrobenzene	30 ppm
							Phenacetin	30 ppm
							Pronamide	30 ppm
							Quinoline	30 ppm
							1,4-Naphthoquinone	30 ppm
							1-Chloronaphthalene	30 ppm
							7,12-Dimethylbenz(a)anthracene	30 ppm
							Chlorobenzilate	30 ppm
							Dinoseb	30 ppm
							Ethyl methanesulfonate	30 ppm
							Hexachloropropene	30 ppm
							Isodrin	30 ppm
							Isosafrole Peak 1	4.8 ppm
							Isosafrole Peak 2	25.2 ppm
							Methyl methanesulfonate	30 ppm
							Pentachlorobenzene	30 ppm
							3-Methylcholanthrene	30 ppm
							6-Methylchrysene	30 ppm
							cis-Diallate	22.2 ppm
							Dimethoate	30 ppm
							Disulfoton	30 ppm
							Ethyl Parathion	30 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methyl parathion	30 ppm
							o,o',o''-Triethylphosphorothioate	30 ppm
							Phorate	30 ppm
							Safrole, Total	30 ppm
							Sulfotepp	30 ppm
							Thionazin	30 ppm
							trans-Diallate	7.8 ppm
							2,4,6-Tribromophenol (Surr)	60 ppm
							2-Fluorobiphenyl (Surr)	60 ppm
							2-Fluorophenol (Surr)	60 ppm
							Nitrobenzene-d5 (Surr)	60 ppm
							p-Terphenyl-d14 (Surr)	60 ppm
							Phenol-d5 (Surr)	60 ppm
							Dibenz[a,j]acridine	30 ppm
							1,1'-Biphenyl	30 ppm
							1,2,4,5-Tetrachlorobenzene	30 ppm
							1,2,4-Trichlorobenzene	30 ppm
							1,2-Dichlorobenzene	30 ppm
							1,2-Diphenylhydrazine	30 ppm
							1,3-Dichlorobenzene	30 ppm
							1,3-Dinitrobenzene	30 ppm
							1,4-Dichlorobenzene	30 ppm
							1,4-Dioxane	30 ppm
							1-Methylnaphthalene	30 ppm
							2,2'-oxybis[1-chloropropane]	30 ppm
							2,3,4,6-Tetrachlorophenol	30 ppm
							2,4,5-Trichlorophenol	30 ppm
							2,4,6-Trichlorophenol	30 ppm
							2,4-Dichlorophenol	30 ppm
							2,4-Dimethylphenol	30 ppm
							2,4-Dinitrophenol	60 ppm
							2,4-Dinitrotoluene	30 ppm
							2,6-Dichlorophenol	30 ppm
							2,6-Dinitrotoluene	30 ppm
							2-Chloronaphthalene	30 ppm
							2-Chlorophenol	30 ppm
							2-Methylnaphthalene	30 ppm
							2-Methylphenol	30 ppm
							2-Nitroaniline	30 ppm
							2-Nitrophenol	30 ppm
							3-Nitroaniline	30 ppm
							4,6-Dinitro-2-methylphenol	60 ppm
							4-Bromophenyl phenyl ether	30 ppm
							4-Chloro-3-methylphenol	30 ppm
							4-Chloroaniline	30 ppm
							4-Chlorophenyl phenyl ether	30 ppm
							4-Methylphenol	30 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Nitroaniline	30 ppm
							4-Nitrophenol	60 ppm
							Acenaphthene	30 ppm
							Acenaphthylene	30 ppm
							Acetophenone	30 ppm
							Aniline	30 ppm
							Anthracene	30 ppm
							Benzo[a]anthracene	30 ppm
							Benzo[a]pyrene	30 ppm
							Benzo[b]fluoranthene	30 ppm
							Benzo[g,h,i]perylene	30 ppm
							Benzo[k]fluoranthene	30 ppm
							Benzyl alcohol	30 ppm
							Bis(2-chloroethoxy)methane	30 ppm
							Bis(2-chloroethyl)ether	30 ppm
							Bis(2-ethylhexyl) phthalate	30 ppm
							Butylbenzylphthalate	30 ppm
							Carbazole	30 ppm
							Chrysene	30 ppm
							Di-n-butyl phthalate	30 ppm
							Di-n-octyl phthalate	30 ppm
							Dibenz(a,h)anthracene	30 ppm
							Dibenzofuran	30 ppm
							Diethylphthalate	30 ppm
							Dimethylphthalate	30 ppm
							Fluoranthene	30 ppm
							Fluorene	30 ppm
							Hexachlorobenzene	30 ppm
							Hexachlorobutadiene	30 ppm
							Hexachlorocyclopentadiene	30 ppm
							Hexachloroethane	30 ppm
							Indeno[1,2,3-cd]pyrene	30 ppm
							Isophorone	30 ppm
							N-Nitrosodi-n-propylamine	30 ppm
							N-Nitrosodimethylamine	30 ppm
							N-Nitrosodiphenylamine	25.5 ppm
							Naphthalene	30 ppm
							Nitrobenzene	30 ppm
							Pentachlorophenol	60 ppm
							Phenanthrene	30 ppm
							Phenol	30 ppm
							Pyrene	30 ppm
							Pyridine	60 ppm
							3,3'-Dichlorobenzidine	30 ppm
							Alpha-Terpineol	30 ppm
							Dimethylformamide	30 ppm
							Octachlorostyrene	30 ppm
							Phenyl ether	30 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dichlorobenzene-d4	5 ppm
							Acenaphthene-d10	5 ppm
							Naphthalene-d8	5 ppm
							Perylene-d12	5 ppm
							Phenanthrene-d10	5 ppm
							Pyrene-d10 (IS)	5 ppm
.MSS_BAS_WS_00006	11/30/22	05/18/22	MeCl2, Lot 217990	5 mL	OP_LCSmix2stk_00004	250 uL	Atrazine	100 ppm
							Benzaldehyde	100 ppm
							Caprolactam	100 ppm
..OP_LCSmix2stk_00004	11/30/22		Restek, Lot A0172244		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
.MSS_FV8270_8_00027	04/30/23	11/03/22	MeCl2, Lot 224977	2 mL	MSS_8270_APWS_00012	960 uL	Benzidine	360 ppm
							1,3,5-Trinitrobenzene	120 ppm
							1,4-Dinitrobenzene	120 ppm
							1-Naphthylamine	120 ppm
							2-Acetylaminofluorene	120 ppm
							2-Naphthylamine	120 ppm
							2-Picoline	120 ppm
							2-Toluidine	120 ppm
							3,3'-Dimethylbenzidine	120 ppm
							4,4'-Methylene bis(2-chloroaniline)	120 ppm
							4-Aminobiphenyl	120 ppm
							4-Nitroquinoline-1-oxide	120 ppm
							Dibenz[a,h]acridine	120 ppm
							N-Nitro-o-toluidine	120 ppm
							N-Nitrosodi-n-butylamine	120 ppm
							N-Nitrosodiethylamine	120 ppm
							N-Nitrosomethylethylamine	120 ppm
							N-Nitrosomorpholine	120 ppm
							N-Nitrosopiperidine	120 ppm
							N-Nitrosopyrrolidine	120 ppm
							p-Dimethylamino azobenzene	120 ppm
							p-Phenylene diamine	120 ppm
							Pentachloronitrobenzene	120 ppm
							Phenacetin	120 ppm
							Pronamide	120 ppm
							Quinoline	120 ppm
							1,4-Naphthoquinone	120 ppm
							1-Chloronaphthalene	120 ppm
							7,12-Dimethylbenz(a)anthracene	120 ppm
							Chlorobenzilate	120 ppm
							Dinoseb	120 ppm
							Ethyl methanesulfonate	120 ppm
							Hexachloropropene	120 ppm
							Isodrin	120 ppm
							Isosafrole Peak 1	19.2 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isosafrole Peak 2	100.8 ppm
							Methyl methanesulfonate	120 ppm
							Pentachlorobenzene	120 ppm
							3-Methylcholanthrene	120 ppm
							6-Methylchrysene	120 ppm
							cis-Diallate	88.8 ppm
							Dimethoate	120 ppm
							Disulfoton	120 ppm
							Ethyl Parathion	120 ppm
							Methyl parathion	120 ppm
							o,o',o''-Triethylphosphorothioate	120 ppm
							Phorate	120 ppm
							Safrole, Total	120 ppm
							Sulfotepp	120 ppm
							Thionazin	120 ppm
							trans-Diallate	31.2 ppm
					MSS_8270_WS_00013	960 uL	2,4,6-Tribromophenol (Surr)	240 ppm
							2-Fluorobiphenyl (Surr)	240 ppm
							2-Fluorophenol (Surr)	240 ppm
							Nitrobenzene-d5 (Surr)	240 ppm
							p-Terphenyl-d14 (Surr)	240 ppm
							Phenol-d5 (Surr)	240 ppm
							Dibenz[a,j]acridine	120 ppm
							1,1'-Biphenyl	120 ppm
							1,2,4,5-Tetrachlorobenzene	120 ppm
							1,2,4-Trichlorobenzene	120 ppm
							1,2-Dichlorobenzene	120 ppm
							1,2-Diphenylhydrazine	120 ppm
							1,3-Dichlorobenzene	120 ppm
							1,3-Dinitrobenzene	120 ppm
							1,4-Dichlorobenzene	120 ppm
							1,4-Dioxane	120 ppm
							1-Methylnaphthalene	120 ppm
							2,2'-oxybis[1-chloropropane]	120 ppm
							2,3,4,6-Tetrachlorophenol	120 ppm
							2,4,5-Trichlorophenol	120 ppm
							2,4,6-Trichlorophenol	120 ppm
							2,4-Dichlorophenol	120 ppm
							2,4-Dimethylphenol	120 ppm
							2,4-Dinitrophenol	240 ppm
							2,4-Dinitrotoluene	120 ppm
							2,6-Dichlorophenol	120 ppm
							2,6-Dinitrotoluene	120 ppm
							2-Chloronaphthalene	120 ppm
							2-Chlorophenol	120 ppm
							2-Methylnaphthalene	120 ppm
							2-Methylphenol	120 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Nitroaniline	120 ppm
							2-Nitrophenol	120 ppm
							3-Nitroaniline	120 ppm
							4,6-Dinitro-2-methylphenol	240 ppm
							4-Bromophenyl phenyl ether	120 ppm
							4-Chloro-3-methylphenol	120 ppm
							4-Chloroaniline	120 ppm
							4-Chlorophenyl phenyl ether	120 ppm
							4-Methylphenol	120 ppm
							4-Nitroaniline	120 ppm
							4-Nitrophenol	240 ppm
							Acenaphthene	120 ppm
							Acenaphthylene	120 ppm
							Acetophenone	120 ppm
							Aniline	120 ppm
							Anthracene	120 ppm
							Benzo[a]anthracene	120 ppm
							Benzo[a]pyrene	120 ppm
							Benzo[b]fluoranthene	120 ppm
							Benzo[g,h,i]perylene	120 ppm
							Benzo[k]fluoranthene	120 ppm
							Benzyl alcohol	120 ppm
							Bis(2-chloroethoxy)methane	120 ppm
							Bis(2-chloroethyl)ether	120 ppm
							Bis(2-ethylhexyl) phthalate	120 ppm
							Butylbenzylphthalate	120 ppm
							Carbazole	120 ppm
							Chrysene	120 ppm
							Di-n-butyl phthalate	120 ppm
							Di-n-octyl phthalate	120 ppm
							Dibenz(a,h)anthracene	120 ppm
							Dibenzofuran	120 ppm
							Diethylphthalate	120 ppm
							Dimethylphthalate	120 ppm
							Fluoranthene	120 ppm
							Fluorene	120 ppm
							Hexachlorobenzene	120 ppm
							Hexachlorobutadiene	120 ppm
							Hexachlorocyclopentadiene	120 ppm
							Hexachloroethane	120 ppm
							Indeno[1,2,3-cd]pyrene	120 ppm
							Isophorone	120 ppm
							N-Nitrosodi-n-propylamine	120 ppm
							N-Nitrosodimethylamine	120 ppm
							N-Nitrosodiphenylamine	102 ppm
							Naphthalene	120 ppm
							Nitrobenzene	120 ppm
							Pentachlorophenol	240 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenanthrene	120 ppm
							Phenol	120 ppm
							Pyrene	120 ppm
							Pyridine	240 ppm
							3,3'-Dichlorobenzidine	120 ppm
							Benzidine	360 ppm
							Alpha-Terpineol	120 ppm
							Dimethylformamide	120 ppm
							Octachlorostyrene	120 ppm
							Phenyl ether	120 ppm
					MSS_FV8270_IS_00005	40 uL	1,4-Dichlorobenzene-d4	20 ppm
							Acenaphthene-d10	20 ppm
							Naphthalene-d8	20 ppm
							Perylene-d12	20 ppm
							Phenanthrene-d10	20 ppm
							Pyrene-d10 (IS)	20 ppm
..MSS_8270_APWS_00012	04/30/23	11/03/22	MeCl2, Lot 224977	10 mL	MSS_AB_BZIDIN_00011	1000 uL	Benzidine	500 ppm
					OP_RES_APPX1_00008	2500 uL	1,3,5-Trinitrobenzene	250 ppm
							1,4-Dinitrobenzene	250 ppm
							1-Naphthylamine	250 ppm
							2-Acetylaminofluorene	250 ppm
							2-Naphthylamine	250 ppm
							2-Picoline	250 ppm
							2-Toluidine	250 ppm
							3,3'-Dimethylbenzidine	250 ppm
							4,4'-Methylene bis(2-chloroaniline)	250 ppm
							4-Aminobiphenyl	250 ppm
							4-Nitroquinoline-1-oxide	250 ppm
							Dibenz[a,h]acridine	250 ppm
							N-Nitro-o-toluidine	250 ppm
							N-Nitrosodi-n-butylamine	250 ppm
							N-Nitrosodiethylamine	250 ppm
							N-Nitrosomethylethylamine	250 ppm
							N-Nitrosomorpholine	250 ppm
							N-Nitrosopiperidine	250 ppm
							N-Nitrosopyrrolidine	250 ppm
							p-Dimethylamino azobenzene	250 ppm
							p-Phenylene diamine	250 ppm
							Pentachloronitrobenzene	250 ppm
							Phenacetin	250 ppm
							Pronamide	250 ppm
							Quinoline	250 ppm
					OP_RES_APPX2_00009	2500 uL	1,4-Naphthoquinone	250 ppm
							1-Chloronaphthalene	250 ppm
							7,12-Dimethylbenz(a)anthracene	250 ppm
							Chlorobenzilate	250 ppm
							Dinoseb	250 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethyl methanesulfonate	250 ppm
							Hexachloropropene	250 ppm
							Isodrin	250 ppm
							Isosafrole Peak 1	40 ppm
							Isosafrole Peak 2	210 ppm
							Methyl methanesulfonate	250 ppm
							Pentachlorobenzene	250 ppm
					OP_RES_APPX3_00006	1250 uL	3-Methylcholanthrene	250 ppm
							6-Methylchrysene	250 ppm
					OP_RES_APPX4_00007	2500 uL	cis-Diallate	185 ppm
							Dimethoate	250 ppm
							Disulfoton	250 ppm
							Ethyl Parathion	250 ppm
							Methyl parathion	250 ppm
							o,o',o''-Triethylphosphorothioate	250 ppm
							Phorate	250 ppm
							Safrole, Total	250 ppm
							Sulfotepp	250 ppm
							Thionazin	250 ppm
							trans-Diallate	65 ppm
...MSS_AB_BZIDIN_00011	12/06/24		Absolute, Lot 102722		(Purchased Reagent)		Benzidine	5000 ug/mL
...OP_RES_APPX1_00008	07/31/23		Restek, Lot A0187679		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,4-Dinitrobenzene	1000 ug/mL
							1-Naphthylamine	1000 ug/mL
							2-Acetylaminofluorene	1000 ug/mL
							2-Naphthylamine	1000 ug/mL
							2-Picoline	1000 ug/mL
							2-Toluidine	1000 ug/mL
							3,3'-Dimethylbenzidine	1000 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	1000 ug/mL
							4-Aminobiphenyl	1000 ug/mL
							4-Nitroquinoline-1-oxide	1000 ug/mL
							Dibenz[a,h]acridine	1000 ug/mL
							N-Nitro-o-toluidine	1000 ug/mL
							N-Nitrosodi-n-butylamine	1000 ug/mL
							N-Nitrosodiethylamine	1000 ug/mL
							N-Nitrosomethylethylamine	1000 ug/mL
							N-Nitrosomorpholine	1000 ug/mL
							N-Nitrosopiperidine	1000 ug/mL
							N-Nitrosopyrrolidine	1000 ug/mL
							p-Dimethylamino azobenzene	1000 ug/mL
							p-Phenylene diamine	1000 ug/mL
							Pentachloronitrobenzene	1000 ug/mL
							Phenacetin	1000 ug/mL
							Pronamide	1000 ug/mL
							Quinoline	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...OP_RES_APPX2_00009	05/31/23		Restek, Lot A0185039		(Purchased Reagent)		1,4-Naphthoquinone	1000 ug/mL
							1-Chloronaphthalene	1000 ug/mL
							7,12-Dimethylbenz(a)anthracene	1000 ug/mL
							Chlorobenzilate	1000 ug/mL
							Dinoseb	1000 ug/mL
							Ethyl methanesulfonate	1000 ug/mL
							Hexachloropropene	1000 ug/mL
							Isodrin	1000 ug/mL
							Isosafrole Peak 1	160 ug/mL
							Isosafrole Peak 2	840 ug/mL
							Methyl methanesulfonate	1000 ug/mL
							Pentachlorobenzene	1000 ug/mL
...OP_RES_APPX3_00006	04/30/23		Restek, Lot A0184674		(Purchased Reagent)		3-Methylcholanthrene	2000 ug/mL
							6-Methylchrysene	2000 ug/mL
...OP_RES_APPX4_00007	01/31/24		Restek, Lot A0180903		(Purchased Reagent)		cis-Diallate	740 ug/mL
							Dimethoate	1000 ug/mL
							Disulfoton	1000 ug/mL
							Ethyl Parathion	1000 ug/mL
							Methyl parathion	1000 ug/mL
							o,o',o''-Triethylphosphorothioate	1000 ug/mL
							Phorate	1000 ug/mL
							Safrole, Total	1000 ug/mL
							Sulfotepp	1000 ug/mL
							Thionazin	1000 ug/mL
							trans-Diallate	260 ug/mL
..MSS_8270_WS_00013	05/03/23	11/03/22	MeCl2, Lot 224977	10 mL	MSS_8270_SURR_00004	1250 uL	2,4,6-Tribromophenol (Surr)	500 ppm
							2-Fluorobiphenyl (Surr)	500 ppm
							2-Fluorophenol (Surr)	500 ppm
							Nitrobenzene-d5 (Surr)	500 ppm
							p-Terphenyl-d14 (Surr)	500 ppm
							Phenol-d5 (Surr)	500 ppm
					OP_RES_APPX6_00004	1250 uL	Dibenz[a,j]acridine	250 ppm
					OP_RES_LCS1_00008	2500 uL	1,1'-Biphenyl	250 ppm
							1,2,4,5-Tetrachlorobenzene	250 ppm
							1,2,4-Trichlorobenzene	250 ppm
							1,2-Dichlorobenzene	250 ppm
							1,2-Diphenylhydrazine	250 ppm
							1,3-Dichlorobenzene	250 ppm
							1,3-Dinitrobenzene	250 ppm
							1,4-Dichlorobenzene	250 ppm
							1,4-Dioxane	250 ppm
							1-Methylnaphthalene	250 ppm
							2,2'-oxybis[1-chloropropane]	250 ppm
							2,3,4,6-Tetrachlorophenol	250 ppm
							2,4,5-Trichlorophenol	250 ppm
							2,4,6-Trichlorophenol	250 ppm
							2,4-Dichlorophenol	250 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dimethylphenol	250 ppm
							2,4-Dinitrophenol	500 ppm
							2,4-Dinitrotoluene	250 ppm
							2,6-Dichlorophenol	250 ppm
							2,6-Dinitrotoluene	250 ppm
							2-Chloronaphthalene	250 ppm
							2-Chlorophenol	250 ppm
							2-Methylnaphthalene	250 ppm
							2-Methylphenol	250 ppm
							2-Nitroaniline	250 ppm
							2-Nitrophenol	250 ppm
							3-Nitroaniline	250 ppm
							4,6-Dinitro-2-methylphenol	500 ppm
							4-Bromophenyl phenyl ether	250 ppm
							4-Chloro-3-methylphenol	250 ppm
							4-Chloroaniline	250 ppm
							4-Chlorophenyl phenyl ether	250 ppm
							4-Methylphenol	250 ppm
							4-Nitroaniline	250 ppm
							4-Nitrophenol	500 ppm
							Acenaphthene	250 ppm
							Acenaphthylene	250 ppm
							Acetophenone	250 ppm
							Aniline	250 ppm
							Anthracene	250 ppm
							Benzo[a]anthracene	250 ppm
							Benzo[a]pyrene	250 ppm
							Benzo[b]fluoranthene	250 ppm
							Benzo[g,h,i]perylene	250 ppm
							Benzo[k]fluoranthene	250 ppm
							Benzyl alcohol	250 ppm
							Bis(2-chloroethoxy)methane	250 ppm
							Bis(2-chloroethyl)ether	250 ppm
							Bis(2-ethylhexyl) phthalate	250 ppm
							Butylbenzylphthalate	250 ppm
							Carbazole	250 ppm
							Chrysene	250 ppm
							Di-n-butyl phthalate	250 ppm
							Di-n-octyl phthalate	250 ppm
							Dibenz(a,h)anthracene	250 ppm
							Dibenzofuran	250 ppm
							Diethylphthalate	250 ppm
							Dimethylphthalate	250 ppm
							Fluoranthene	250 ppm
							Fluorene	250 ppm
							Hexachlorobenzene	250 ppm
							Hexachlorobutadiene	250 ppm
							Hexachlorocyclopentadiene	250 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachloroethane	250 ppm
							Indeno[1,2,3-cd]pyrene	250 ppm
							Isophorone	250 ppm
							N-Nitrosodi-n-propylamine	250 ppm
							N-Nitrosodimethylamine	250 ppm
							N-Nitrosodiphenylamine	212.5 ppm
							Naphthalene	250 ppm
							Nitrobenzene	250 ppm
							Pentachlorophenol	500 ppm
							Phenanthrene	250 ppm
							Phenol	250 ppm
							Pyrene	250 ppm
							Pyridine	500 ppm
					OP_RES_LCS2_00008	1250 uL	3,3'-Dichlorobenzidine	250 ppm
							Benzidine	250 ppm
					OP_RES_LCSadd_00001	1250 uL	Alpha-Terpineol	250 ppm
							Dimethylformamide	250 ppm
							Octachlorostyrene	250 ppm
							Phenyl ether	250 ppm
...MSS_8270_SURR_00004	10/31/23		Sigma- Aldrich, Lot LRAC8467		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	4000 ug/mL
							2-Fluorobiphenyl (Surr)	4000 ug/mL
							2-Fluorophenol (Surr)	4000 ug/mL
							Nitrobenzene-d5 (Surr)	4000 ug/mL
							p-Terphenyl-d14 (Surr)	4000 ug/mL
							Phenol-d5 (Surr)	4000 ug/mL
...OP_RES_APPX6_00004	08/31/24		Restek, Lot A0175669		(Purchased Reagent)		Dibenz[a,j]acridine	2000 ug/mL
...OP_RES_LCS1_00008	06/30/23		Restek, Lot A0179662		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butylbenzylphthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethylphthalate	1000 ug/mL
							Dimethylphthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	850 ug/mL
							Naphthalene	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
...OP_RES_LCS2_00008	07/31/23		Restek, Lot A0181121		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
...OP_RES_LCSadd_00001	12/31/23		Restek, Lot A0166837		(Purchased Reagent)		Alpha-Terpineol	2000 ug/mL
							Dimethylformamide	2000 ug/mL
							Octachlorostyrene	2000 ug/mL
							Phenyl ether	2000 ug/mL
..MSS_FV8270_IS_00005	11/30/23		Restek, Lot A0166482		(Purchased Reagent)		1,4-Dichlorobenzene-d4	1000 ug/mL
							Acenaphthene-d10	1000 ug/mL
							Naphthalene-d8	1000 ug/mL
							Perylene-d12	1000 ug/mL
							Phenanthrene-d10	1000 ug/mL
							Pyrene-d10 (IS)	1000 ug/mL
MSS_RV8270_IS_00038	11/30/23	01/27/22	MeCl2, Lot 216836	25 mL	MSS_FV8270_IS_00005	6250 uL	1,4-Dichlorobenzene-d4	250 ppm
							Acenaphthene-d10	250 ppm
							Naphthalene-d8	250 ppm
							Perylene-d12	250 ppm
							Phenanthrene-d10	250 ppm
							Pyrene-d10 (IS)	250 ppm
.MSS_FV8270_IS_00005	11/30/23		Restek, Lot A0166482		(Purchased Reagent)		1,4-Dichlorobenzene-d4	1000 ug/mL
							Acenaphthene-d10	1000 ug/mL
							Naphthalene-d8	1000 ug/mL
							Perylene-d12	1000 ug/mL
							Phenanthrene-d10	1000 ug/mL
							Pyrene-d10 (IS)	1000 ug/mL
MSS_RV8270ICV_00018	12/31/22	10/02/22	MeCl2, Lot 224289	3 mL	MSS_FV8270ICV_00021	750 uL	1,4-Dichlorobenzene-d4	5 ppm
							Acenaphthene-d10	5 ppm
							Naphthalene-d8	5 ppm
							Perylene-d12	5 ppm
							Phenanthrene-d10	5 ppm
							Pyrene-d10 (IS)	5 ppm
.MSS_FV8270ICV_00021	12/31/22	10/02/22	MeCl2, Lot 224289	5 mL	MSS_FV8270_IS_00005	100 uL	1,4-Dichlorobenzene-d4	20 ppm
							Acenaphthene-d10	20 ppm
							Naphthalene-d8	20 ppm
							Perylene-d12	20 ppm
							Phenanthrene-d10	20 ppm
							Pyrene-d10 (IS)	20 ppm
..MSS_FV8270_IS_00005	11/30/23		Restek, Lot A0166482		(Purchased Reagent)		1,4-Dichlorobenzene-d4	1000 ug/mL
							Acenaphthene-d10	1000 ug/mL
							Naphthalene-d8	1000 ug/mL
							Perylene-d12	1000 ug/mL
							Phenanthrene-d10	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pyrene-d10 (IS)	1000 ug/mL
MSS_RV8270ICV_00018	12/31/22	10/02/22	MeCl2, Lot 224289	3 mL	MSS_FV8270ICV_00021	750 uL	2,4-Dimethylphenol	12.5 ppm
							2,4-Dinitrophenol	25 ppm
							2-Chlorophenol	12.5 ppm
							Carbazole	12.5 ppm
							Phenol	12.5 ppm
.MSS_FV8270ICV_00021	12/31/22	10/02/22	MeCl2, Lot 224289	5 mL	MS_RES_ICV1_00005	250 uL	2,4-Dimethylphenol	50 ppm
							2,4-Dinitrophenol	100 ppm
							2-Chlorophenol	50 ppm
							Carbazole	50 ppm
							Phenol	50 ppm
..MS_RES_ICV1_00005	07/31/23		Restek, Lot A0180323		(Purchased Reagent)		2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2-Chlorophenol	1000 ug/mL
							Carbazole	1000 ug/mL
							Phenol	1000 ug/mL
MSS_RVBAS_ICV_00011	04/05/23	10/05/22	MeCl2, Lot 214960	2 mL	MSS_FVICV_BAS_00007	500 uL	1,4-Dichlorobenzene-d4	5 ppm
							Acenaphthene-d10	5 ppm
							Naphthalene-d8	5 ppm
							Perylene-d12	5 ppm
							Phenanthrene-d10	5 ppm
							Pyrene-d10 (IS)	5 ppm
.MSS_FVICV_BAS_00007	04/05/23	10/05/22	MeCl2, Lot 224848	5 mL	MSS_FV8270_IS_00005	100 uL	1,4-Dichlorobenzene-d4	20 ppm
							Acenaphthene-d10	20 ppm
							Naphthalene-d8	20 ppm
							Perylene-d12	20 ppm
							Phenanthrene-d10	20 ppm
							Pyrene-d10 (IS)	20 ppm
..MSS_FV8270_IS_00005	11/30/23		Restek, Lot A0166482		(Purchased Reagent)		1,4-Dichlorobenzene-d4	1000 ug/mL
							Acenaphthene-d10	1000 ug/mL
							Naphthalene-d8	1000 ug/mL
							Perylene-d12	1000 ug/mL
							Phenanthrene-d10	1000 ug/mL
							Pyrene-d10 (IS)	1000 ug/mL
MSS_RVDFTPP_00011							4,4'-DDD	
							4,4'-DDE	
							Aramite, Total	
							Diallate	
							Isosafrole	
							m&p-Methylphenol	
							Tentatively Identified Compound	
							Total Cresols	
							Total PAH	
					MSS_AB_DFTPP_00015	650 uL	4,4'-DDT	13 ppm
							Benzidine_T	13 ppm
							DFTPP	13 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pentachlorophenol_T	13 ppm
.MSS_AB_DFTPP_00015	05/24/24		Absolute, Lot 052421		(Purchased Reagent)		4,4'-DDT	500 ug/mL
							Benzidine_T	500 ug/mL
							DFTPP	500 ug/mL
							Pentachlorophenol_T	500 ug/mL
MSS_RVSIM_1_00018	10/26/22	07/28/22	MeCl2, Lot 222593	2 mL	MSS_PHTH_WS1_00011	2 uL	Bis(2-ethylhexyl) phthalate	0.1 ppm
							Butylbenzylphthalate	0.1 ppm
							Di-n-butyl phthalate	0.1 ppm
							Di-n-octyl phthalate	0.1 ppm
							Diethylphthalate	0.1 ppm
							Dimethylphthalate	0.1 ppm
					MSS_RVSIM_IS_00029	20 uL	1,4-Dichlorobenzene-d4	0.25 ppm
							Acenaphthene-d10	0.25 ppm
							Chrysene-d12	0.25 ppm
							Naphthalene-d8	0.25 ppm
							Perylene-d12	0.25 ppm
							Phenanthrene-d10	0.25 ppm
					MSS_RVSIM_WS1_00014	2 uL	1,4-Dioxane	0.01 ppm
							Bis(2-chloroethyl)ether	0.01 ppm
							Hexachlorobenzene	0.01 ppm
							N-Nitrosodimethylamine	0.01 ppm
							N-Nitrosodiphenylamine	0.01 ppm
							1-Methylnaphthalene	0.01 ppm
							2-Methylnaphthalene	0.01 ppm
							Acenaphthene	0.01 ppm
							Acenaphthylene	0.01 ppm
							Anthracene	0.01 ppm
							Benzo[a]anthracene	0.01 ppm
							Benzo[a]pyrene	0.01 ppm
							Benzo[b]fluoranthene	0.01 ppm
							Benzo[e]pyrene	0.01 ppm
							Benzo[g,h,i]perylene	0.01 ppm
							Benzo[k]fluoranthene	0.01 ppm
							Chrysene	0.01 ppm
							Dibenz(a,h)anthracene	0.01 ppm
							Dibenzofuran	0.01 ppm
							Fluoranthene	0.01 ppm
							Fluorene	0.01 ppm
							Indeno[1,2,3-cd]pyrene	0.01 ppm
							Naphthalene	0.01 ppm
							Perylene	0.01 ppm
							Phenanthrene	0.01 ppm
							Pyrene	0.01 ppm
							Quinoline	0.01 ppm
							1-Methylnaphthalene-d10 (Surr)	0.01 ppm
							Benzo(a)pyrene-d12 (Surr)	0.01 ppm
							Fluoranthene-d10 (Surr)	0.01 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.MSS_PHTH_WS1_00011	10/26/22	04/26/22	MeCl2, Lot 219045	2 mL	MSS_AB_PHTHAL_00004	100 uL	Bis(2-ethylhexyl) phthalate	100 ppm
							Butylbenzylphthalate	100 ppm
							Di-n-butyl phthalate	100 ppm
							Di-n-octyl phthalate	100 ppm
							Diethylphthalate	100 ppm
							Dimethylphthalate	100 ppm
..MSS_AB_PHTHAL_00004	10/20/23		Absolute, Lot 102720		(Purchased Reagent)		Bis(2-ethylhexyl) phthalate	2000 ug/mL
							Butylbenzylphthalate	2000 ug/mL
							Di-n-butyl phthalate	2000 ug/mL
							Di-n-octyl phthalate	2000 ug/mL
							Diethylphthalate	2000 ug/mL
							Dimethylphthalate	2000 ug/mL
.MSS_RVSIM_IS_00029	12/08/22	06/08/22	MeCl2, Lot 221500	10 mL	MSS_SIMTEL_IS_00010	125 uL	1,4-Dichlorobenzene-d4	25 ppm
							Acenaphthene-d10	25 ppm
							Chrysene-d12	25 ppm
							Naphthalene-d8	25 ppm
							Perylene-d12	25 ppm
							Phenanthrene-d10	25 ppm
..MSS_SIMTEL_IS_00010	02/28/27		Restek, Lot A0170322		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.MSS_RVSIM_WS1_00014	12/13/22	06/13/22	MeCl2, Lot 222145	5 mL	MSS_AB_14DIOX_00007	50 uL	1,4-Dioxane	10 ppm
					MSS_AB_B2CEE_00003	50 uL	Bis(2-chloroethyl)ether	10 ppm
					MSS_AB_HCB_00009	50 uL	Hexachlorobenzene	10 ppm
					MSS_AB_NITROS_00006	25 uL	N-Nitrosodimethylamine	10 ppm
							N-Nitrosodiphenylamine	10 ppm
					MSS_AB_PAHSTD_00009	50 uL	1-Methylnaphthalene	10 ppm
							2-Methylnaphthalene	10 ppm
							Acenaphthene	10 ppm
							Acenaphthylene	10 ppm
							Anthracene	10 ppm
							Benzo[a]anthracene	10 ppm
							Benzo[a]pyrene	10 ppm
							Benzo[b]fluoranthene	10 ppm
							Benzo[e]pyrene	10 ppm
							Benzo[g,h,i]perylene	10 ppm
							Benzo[k]fluoranthene	10 ppm
							Chrysene	10 ppm
							Dibenz(a,h)anthracene	10 ppm
							Dibenzofuran	10 ppm
							Fluoranthene	10 ppm
							Fluorene	10 ppm
							Indeno[1,2,3-cd]pyrene	10 ppm
							Naphthalene	10 ppm
							Perylene	10 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenanthrene	10 ppm
							Pyrene	10 ppm
					MSS_AB_QUIN_00007	50 uL	Quinoline	10 ppm
					MSS_SIM_SURR_00006	50 uL	1-Methylnaphthalene-d10 (Surr)	10 ppm
							Benzo(a)pyrene-d12 (Surr)	10 ppm
							Fluoranthene-d10 (Surr)	10 ppm
..MSS_AB_14DIOX_00007	12/16/24		Absolute, Lot 121619		(Purchased Reagent)		1,4-Dioxane	1000 ug/mL
..MSS_AB_B2CEE_00003	03/23/23		Absolute, Lot 032318		(Purchased Reagent)		Bis(2-chloroethyl)ether	1000 ug/mL
..MSS_AB_HCB_00009	06/23/26		Absolute, Lot 062321		(Purchased Reagent)		Hexachlorobenzene	1000 ug/mL
..MSS_AB_NITROS_00006	04/23/23		Absolute, Lot 042320		(Purchased Reagent)		N-Nitrosodimethylamine	2000 ug/mL
							N-Nitrosodiphenylamine	2000 ug/mL
..MSS_AB_PAHSTD_00009	06/05/23		Absolute, Lot 060518		(Purchased Reagent)		1-Methylnaphthalene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[e]pyrene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Naphthalene	1000 ug/mL
							Perylene	1000 ug/mL
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL
..MSS_AB_QUIN_00007	06/18/23		Absolute, Lot 061820		(Purchased Reagent)		Quinoline	1000 ug/mL
..MSS_SIM_SURR_00006	02/09/27		Restek, Lot A0168817		(Purchased Reagent)		1-Methylnaphthalene-d10 (Surr)	1000 ug/mL
							Benzo(a)pyrene-d12 (Surr)	1000 ug/mL
							Fluoranthene-d10 (Surr)	1000 ug/mL
MSS_RVSIM_2_00018	10/26/22	06/13/22	MeCl2, Lot 222145	1 mL	MSS_PHTH_WS1_00011	5 uL	Bis(2-ethylhexyl) phthalate	0.5 ppm
							Butylbenzylphthalate	0.5 ppm
							Di-n-butyl phthalate	0.5 ppm
							Di-n-octyl phthalate	0.5 ppm
							Diethylphthalate	0.5 ppm
							Dimethylphthalate	0.5 ppm
					MSS_RVSIM_IS_00029	10 uL	1,4-Dichlorobenzene-d4	0.25 ppm
							Acenaphthene-d10	0.25 ppm
							Chrysene-d12	0.25 ppm
							Naphthalene-d8	0.25 ppm
							Perylene-d12	0.25 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenanthrene-d10	0.25 ppm
					MSS_RVSIM_WS1_00014	5 uL	1,4-Dioxane	0.05 ppm
							Bis(2-chloroethyl)ether	0.05 ppm
							Hexachlorobenzene	0.05 ppm
							N-Nitrosodimethylamine	0.05 ppm
							N-Nitrosodiphenylamine	0.05 ppm
							1-Methylnaphthalene	0.05 ppm
							2-Methylnaphthalene	0.05 ppm
							Acenaphthene	0.05 ppm
							Acenaphthylene	0.05 ppm
							Anthracene	0.05 ppm
							Benzo[a]anthracene	0.05 ppm
							Benzo[a]pyrene	0.05 ppm
							Benzo[b]fluoranthene	0.05 ppm
							Benzo[e]pyrene	0.05 ppm
							Benzo[g,h,i]perylene	0.05 ppm
							Benzo[k]fluoranthene	0.05 ppm
							Chrysene	0.05 ppm
							Dibenz(a,h)anthracene	0.05 ppm
							Dibenzofuran	0.05 ppm
							Fluoranthene	0.05 ppm
							Fluorene	0.05 ppm
							Indeno[1,2,3-cd]pyrene	0.05 ppm
							Naphthalene	0.05 ppm
							Perylene	0.05 ppm
							Phenanthrene	0.05 ppm
							Pyrene	0.05 ppm
							Quinoline	0.05 ppm
							1-Methylnaphthalene-d10 (Surr)	0.05 ppm
							Benzo(a)pyrene-d12 (Surr)	0.05 ppm
							Fluoranthene-d10 (Surr)	0.05 ppm
.MSS_PHTH_WS1_00011	10/26/22	04/26/22	MeCl2, Lot 219045	2 mL	MSS_AB_PHTHAL_00004	100 uL	Bis(2-ethylhexyl) phthalate	100 ppm
							Butylbenzylphthalate	100 ppm
							Di-n-butyl phthalate	100 ppm
							Di-n-octyl phthalate	100 ppm
							Diethylphthalate	100 ppm
							Dimethylphthalate	100 ppm
..MSS_AB_PHTHAL_00004	10/20/23	Absolute, Lot 102720			(Purchased Reagent)		Bis(2-ethylhexyl) phthalate	2000 ug/mL
							Butylbenzylphthalate	2000 ug/mL
							Di-n-butyl phthalate	2000 ug/mL
							Di-n-octyl phthalate	2000 ug/mL
							Diethylphthalate	2000 ug/mL
							Dimethylphthalate	2000 ug/mL
.MSS_RVSIM_IS_00029	12/08/22	06/08/22	MeCl2, Lot 221500	10 mL	MSS_SIMTEL_IS_00010	125 uL	1,4-Dichlorobenzene-d4	25 ppm
							Acenaphthene-d10	25 ppm
							Chrysene-d12	25 ppm
							Naphthalene-d8	25 ppm
							Perylene-d12	25 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenanthrene-d10	25 ppm
..MSS_SIMTEL_IS_00010	02/28/27		Restek, Lot A0170322		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.MSS_RVSIM_WS1_00014	12/13/22	06/13/22	MeCl2, Lot 222145	5 mL	MSS_AB_14DIOX_00007	50 uL	1,4-Dioxane	10 ppm
					MSS_AB_B2CEE_00003	50 uL	Bis(2-chloroethyl)ether	10 ppm
					MSS_AB_HCB_00009	50 uL	Hexachlorobenzene	10 ppm
					MSS_AB_NITROS_00006	25 uL	N-Nitrosodimethylamine	10 ppm
							N-Nitrosodiphenylamine	10 ppm
					MSS_AB_PAHSTD_00009	50 uL	1-Methylnaphthalene	10 ppm
							2-Methylnaphthalene	10 ppm
							Acenaphthene	10 ppm
							Acenaphthylene	10 ppm
							Anthracene	10 ppm
							Benzo[a]anthracene	10 ppm
							Benzo[a]pyrene	10 ppm
							Benzo[b]fluoranthene	10 ppm
							Benzo[e]pyrene	10 ppm
							Benzo[g,h,i]perylene	10 ppm
							Benzo[k]fluoranthene	10 ppm
							Chrysene	10 ppm
							Dibenz(a,h)anthracene	10 ppm
							Dibenzofuran	10 ppm
							Fluoranthene	10 ppm
							Fluorene	10 ppm
							Indeno[1,2,3-cd]pyrene	10 ppm
							Naphthalene	10 ppm
							Perylene	10 ppm
							Phenanthrene	10 ppm
							Pyrene	10 ppm
					MSS_AB_QUIN_00007	50 uL	Quinoline	10 ppm
					MSS_SIM_SURR_00006	50 uL	1-Methylnaphthalene-d10 (Surr)	10 ppm
							Benzo(a)pyrene-d12 (Surr)	10 ppm
							Fluoranthene-d10 (Surr)	10 ppm
..MSS_AB_14DIOX_00007	12/16/24		Absolute, Lot 121619		(Purchased Reagent)		1,4-Dioxane	1000 ug/mL
..MSS_AB_B2CEE_00003	03/23/23		Absolute, Lot 032318		(Purchased Reagent)		Bis(2-chloroethyl)ether	1000 ug/mL
..MSS_AB_HCB_00009	06/23/26		Absolute, Lot 062321		(Purchased Reagent)		Hexachlorobenzene	1000 ug/mL
..MSS_AB_NITROS_00006	04/23/23		Absolute, Lot 042320		(Purchased Reagent)		N-Nitrosodimethylamine	2000 ug/mL
							N-Nitrosodiphenylamine	2000 ug/mL
..MSS_AB_PAHSTD_00009	06/05/23		Absolute, Lot 060518		(Purchased Reagent)		1-Methylnaphthalene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[e]pyrene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Naphthalene	1000 ug/mL
							Perylene	1000 ug/mL
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL
..MSS_AB_QUIN_00007	06/18/23		Absolute, Lot 061820		(Purchased Reagent)		Quinoline	1000 ug/mL
..MSS_SIM_SURR_00006	02/09/27		Restek, Lot A0168817		(Purchased Reagent)		1-Methylnaphthalene-d10 (Surr)	1000 ug/mL
							Benzo(a)pyrene-d12 (Surr)	1000 ug/mL
							Fluoranthene-d10 (Surr)	1000 ug/mL
MSS_RVSIM_3_00017	10/26/22	06/13/22	MeCl2, Lot 222145	1 mL	MSS_PHTH_WS1_00011	10 uL	Bis(2-ethylhexyl) phthalate	1 ppm
							Butylbenzylphthalate	1 ppm
							Di-n-butyl phthalate	1 ppm
							Di-n-octyl phthalate	1 ppm
							Diethylphthalate	1 ppm
							Dimethylphthalate	1 ppm
					MSS_RVSIM_IS_00029	10 uL	1,4-Dichlorobenzene-d4	0.25 ppm
							Acenaphthene-d10	0.25 ppm
							Chrysene-d12	0.25 ppm
							Naphthalene-d8	0.25 ppm
							Perylene-d12	0.25 ppm
							Phenanthrene-d10	0.25 ppm
					MSS_RVSIM_WS1_00014	10 uL	1,4-Dioxane	0.1 ppm
							Bis(2-chloroethyl)ether	0.1 ppm
							Hexachlorobenzene	0.1 ppm
							N-Nitrosodimethylamine	0.1 ppm
							N-Nitrosodiphenylamine	0.1 ppm
							1-Methylnaphthalene	0.1 ppm
							2-Methylnaphthalene	0.1 ppm
							Acenaphthene	0.1 ppm
							Acenaphthylene	0.1 ppm
							Anthracene	0.1 ppm
							Benzo[a]anthracene	0.1 ppm
							Benzo[a]pyrene	0.1 ppm
							Benzo[b]fluoranthene	0.1 ppm
							Benzo[e]pyrene	0.1 ppm
							Benzo[g,h,i]perylene	0.1 ppm
							Benzo[k]fluoranthene	0.1 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chrysene	0.1 ppm
							Dibenz(a,h)anthracene	0.1 ppm
							Dibenzofuran	0.1 ppm
							Fluoranthene	0.1 ppm
							Fluorene	0.1 ppm
							Indeno[1,2,3-cd]pyrene	0.1 ppm
							Naphthalene	0.1 ppm
							Perylene	0.1 ppm
							Phenanthrene	0.1 ppm
							Pyrene	0.1 ppm
							Quinoline	0.1 ppm
							1-Methylnaphthalene-d10 (Surr)	0.1 ppm
							Benzo(a)pyrene-d12 (Surr)	0.1 ppm
							Fluoranthene-d10 (Surr)	0.1 ppm
.MSS_PHTH_WS1_00011	10/26/22	04/26/22	MeCl2, Lot 219045	2 mL	MSS_AB_PHTHAL_00004	100 uL	Bis(2-ethylhexyl) phthalate	100 ppm
							Butylbenzylphthalate	100 ppm
							Di-n-butyl phthalate	100 ppm
							Di-n-octyl phthalate	100 ppm
							Diethylphthalate	100 ppm
							Dimethylphthalate	100 ppm
..MSS_AB_PHTHAL_00004	10/20/23		Absolute, Lot 102720		(Purchased Reagent)		Bis(2-ethylhexyl) phthalate	2000 ug/mL
							Butylbenzylphthalate	2000 ug/mL
							Di-n-butyl phthalate	2000 ug/mL
							Di-n-octyl phthalate	2000 ug/mL
							Diethylphthalate	2000 ug/mL
							Dimethylphthalate	2000 ug/mL
.MSS_RVSIM_IS_00029	12/08/22	06/08/22	MeCl2, Lot 221500	10 mL	MSS_SIMTEL_IS_00010	125 uL	1,4-Dichlorobenzene-d4	25 ppm
							Acenaphthene-d10	25 ppm
							Chrysene-d12	25 ppm
							Naphthalene-d8	25 ppm
							Perylene-d12	25 ppm
							Phenanthrene-d10	25 ppm
..MSS_SIMTEL_IS_00010	02/28/27		Restek, Lot A0170322		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.MSS_RVSIM_WS1_00014	12/13/22	06/13/22	MeCl2, Lot 222145	5 mL	MSS_AB_14DIOX_00007	50 uL	1,4-Dioxane	10 ppm
					MSS_AB_B2CEE_00003	50 uL	Bis(2-chloroethyl)ether	10 ppm
					MSS_AB_HCB_00009	50 uL	Hexachlorobenzene	10 ppm
					MSS_AB_NITROS_00006	25 uL	N-Nitrosodimethylamine	10 ppm
							N-Nitrosodiphenylamine	10 ppm
					MSS_AB_PAHSTD_00009	50 uL	1-Methylnaphthalene	10 ppm
							2-Methylnaphthalene	10 ppm
							Acenaphthene	10 ppm
							Acenaphthylene	10 ppm
							Anthracene	10 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[a]anthracene	10 ppm
							Benzo[a]pyrene	10 ppm
							Benzo[b]fluoranthene	10 ppm
							Benzo[e]pyrene	10 ppm
							Benzo[g,h,i]perylene	10 ppm
							Benzo[k]fluoranthene	10 ppm
							Chrysene	10 ppm
							Dibenz(a,h)anthracene	10 ppm
							Dibenzofuran	10 ppm
							Fluoranthene	10 ppm
							Fluorene	10 ppm
							Indeno[1,2,3-cd]pyrene	10 ppm
							Naphthalene	10 ppm
							Perylene	10 ppm
							Phenanthrene	10 ppm
							Pyrene	10 ppm
					MSS_AB_QUIN_00007	50 uL	Quinoline	10 ppm
					MSS_SIM_SURR_00006	50 uL	1-Methylnaphthalene-d10 (Surr)	10 ppm
							Benzo(a)pyrene-d12 (Surr)	10 ppm
							Fluoranthene-d10 (Surr)	10 ppm
..MSS_AB_14DIOX_00007	12/16/24		Absolute, Lot 121619		(Purchased Reagent)		1,4-Dioxane	1000 ug/mL
..MSS_AB_B2CEE_00003	03/23/23		Absolute, Lot 032318		(Purchased Reagent)		Bis(2-chloroethyl)ether	1000 ug/mL
..MSS_AB_HCB_00009	06/23/26		Absolute, Lot 062321		(Purchased Reagent)		Hexachlorobenzene	1000 ug/mL
..MSS_AB_NITROS_00006	04/23/23		Absolute, Lot 042320		(Purchased Reagent)		N-Nitrosodimethylamine	2000 ug/mL
							N-Nitrosodiphenylamine	2000 ug/mL
..MSS_AB_PAHSTD_00009	06/05/23		Absolute, Lot 060518		(Purchased Reagent)		1-Methylnaphthalene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[e]pyrene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Naphthalene	1000 ug/mL
							Perylene	1000 ug/mL
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL
..MSS_AB_QUIN_00007	06/18/23		Absolute, Lot 061820		(Purchased Reagent)		Quinoline	1000 ug/mL
..MSS_SIM_SURR_00006	02/09/27		Restek, Lot A0168817		(Purchased Reagent)		1-Methylnaphthalene-d10 (Surr)	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo(a)pyrene-d12 (Surr)	1000 ug/mL
							Fluoranthene-d10 (Surr)	1000 ug/mL
MSS_RVSIM_4_00024	10/26/22	06/13/22	MeCl2, Lot 222145	5 mL	MSS_PHTH_WS1_00011	125 uL	Bis(2-ethylhexyl) phthalate	2.5 ppm
							Butylbenzylphthalate	2.5 ppm
							Di-n-butyl phthalate	2.5 ppm
							Di-n-octyl phthalate	2.5 ppm
							Diethylphthalate	2.5 ppm
							Dimethylphthalate	2.5 ppm
					MSS_RVSIM_IS_00029	50 uL	1,4-Dichlorobenzene-d4	0.25 ppm
							Acenaphthene-d10	0.25 ppm
							Chrysene-d12	0.25 ppm
							Naphthalene-d8	0.25 ppm
							Perylene-d12	0.25 ppm
							Phenanthrene-d10	0.25 ppm
					MSS_RVSIM_WS1_00014	250 uL	1,4-Dioxane	0.5 ppm
							Bis(2-chloroethyl)ether	0.5 ppm
							Hexachlorobenzene	0.5 ppm
							N-Nitrosodimethylamine	0.5 ppm
							N-Nitrosodiphenylamine	0.5 ppm
							1-Methylnaphthalene	0.5 ppm
							2-Methylnaphthalene	0.5 ppm
							Acenaphthene	0.5 ppm
							Acenaphthylene	0.5 ppm
							Anthracene	0.5 ppm
							Benzo[a]anthracene	0.5 ppm
							Benzo[a]pyrene	0.5 ppm
							Benzo[b]fluoranthene	0.5 ppm
							Benzo[e]pyrene	0.5 ppm
							Benzo[g,h,i]perylene	0.5 ppm
							Benzo[k]fluoranthene	0.5 ppm
							Chrysene	0.5 ppm
							Dibenz(a,h)anthracene	0.5 ppm
							Dibenzofuran	0.5 ppm
							Fluoranthene	0.5 ppm
							Fluorene	0.5 ppm
							Indeno[1,2,3-cd]pyrene	0.5 ppm
							Naphthalene	0.5 ppm
							Perylene	0.5 ppm
							Phenanthrene	0.5 ppm
							Pyrene	0.5 ppm
							Quinoline	0.5 ppm
							1-Methylnaphthalene-d10 (Surr)	0.5 ppm
							Benzo(a)pyrene-d12 (Surr)	0.5 ppm
							Fluoranthene-d10 (Surr)	0.5 ppm
.MSS_PHTH_WS1_00011	10/26/22	04/26/22	MeCl2, Lot 219045	2 mL	MSS_AB_PHTHAL_00004	100 uL	Bis(2-ethylhexyl) phthalate	100 ppm
							Butylbenzylphthalate	100 ppm
							Di-n-butyl phthalate	100 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Di-n-octyl phthalate	100 ppm
							Diethylphthalate	100 ppm
							Dimethylphthalate	100 ppm
..MSS_AB_PHTHAL_00004	10/20/23		Absolute, Lot 102720		(Purchased Reagent)		Bis(2-ethylhexyl) phthalate	2000 ug/mL
							Butylbenzylphthalate	2000 ug/mL
							Di-n-butyl phthalate	2000 ug/mL
							Di-n-octyl phthalate	2000 ug/mL
							Diethylphthalate	2000 ug/mL
							Dimethylphthalate	2000 ug/mL
.MSS_RVSIM_IS_00029	12/08/22	06/08/22	MeCl2, Lot 221500	10 mL	MSS_SIMTEL_IS_00010	125 uL	1,4-Dichlorobenzene-d4	25 ppm
							Acenaphthene-d10	25 ppm
							Chrysene-d12	25 ppm
							Naphthalene-d8	25 ppm
							Perylene-d12	25 ppm
							Phenanthrene-d10	25 ppm
..MSS_SIMTEL_IS_00010	02/28/27		Restek, Lot A0170322		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.MSS_RVSIM_WS1_00014	12/13/22	06/13/22	MeCl2, Lot 222145	5 mL	MSS_AB_14DIOX_00007	50 uL	1,4-Dioxane	10 ppm
					MSS_AB_B2CEE_00003	50 uL	Bis(2-chloroethyl)ether	10 ppm
					MSS_AB_HCB_00009	50 uL	Hexachlorobenzene	10 ppm
					MSS_AB_NITROS_00006	25 uL	N-Nitrosodimethylamine	10 ppm
							N-Nitrosodiphenylamine	10 ppm
					MSS_AB_PAHSTD_00009	50 uL	1-Methylnaphthalene	10 ppm
							2-Methylnaphthalene	10 ppm
							Acenaphthene	10 ppm
							Acenaphthylene	10 ppm
							Anthracene	10 ppm
							Benzo[a]anthracene	10 ppm
							Benzo[a]pyrene	10 ppm
							Benzo[b]fluoranthene	10 ppm
							Benzo[e]pyrene	10 ppm
							Benzo[g,h,i]perylene	10 ppm
							Benzo[k]fluoranthene	10 ppm
							Chrysene	10 ppm
							Dibenz(a,h)anthracene	10 ppm
							Dibenzofuran	10 ppm
							Fluoranthene	10 ppm
							Fluorene	10 ppm
							Indeno[1,2,3-cd]pyrene	10 ppm
							Naphthalene	10 ppm
							Perylene	10 ppm
							Phenanthrene	10 ppm
							Pyrene	10 ppm
					MSS_AB_QUIN_00007	50 uL	Quinoline	10 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					MSS_SIM_SURR_00006	50 uL	1-Methylnaphthalene-d10 (Surr)	10 ppm
							Benzo(a)pyrene-d12 (Surr)	10 ppm
							Fluoranthene-d10 (Surr)	10 ppm
..MSS_AB_14DIOX_00007	12/16/24		Absolute, Lot 121619		(Purchased Reagent)		1,4-Dioxane	1000 ug/mL
..MSS_AB_B2CEE_00003	03/23/23		Absolute, Lot 032318		(Purchased Reagent)		Bis(2-chloroethyl)ether	1000 ug/mL
..MSS_AB_HCB_00009	06/23/26		Absolute, Lot 062321		(Purchased Reagent)		Hexachlorobenzene	1000 ug/mL
..MSS_AB_NITROS_00006	04/23/23		Absolute, Lot 042320		(Purchased Reagent)		N-Nitrosodimethylamine	2000 ug/mL
							N-Nitrosodiphenylamine	2000 ug/mL
..MSS_AB_PAHSTD_00009	06/05/23		Absolute, Lot 060518		(Purchased Reagent)		1-Methylnaphthalene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[e]pyrene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Naphthalene	1000 ug/mL
							Perylene	1000 ug/mL
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL
..MSS_AB_QUIN_00007	06/18/23		Absolute, Lot 061820		(Purchased Reagent)		Quinoline	1000 ug/mL
..MSS_SIM_SURR_00006	02/09/27		Restek, Lot A0168817		(Purchased Reagent)		1-Methylnaphthalene-d10 (Surr)	1000 ug/mL
							Benzo(a)pyrene-d12 (Surr)	1000 ug/mL
							Fluoranthene-d10 (Surr)	1000 ug/mL
MSS_RVSIM_4_00025	12/13/22	10/27/22	MeCl2, Lot 224977	5 mL	MSS_RVSIM_IS_00033	50 uL	1,4-Dichlorobenzene-d4	0.25 ppm
							Acenaphthene-d10	0.25 ppm
							Chrysene-d12	0.25 ppm
							Naphthalene-d8	0.25 ppm
							Perylene-d12	0.25 ppm
							Phenanthrene-d10	0.25 ppm
.MSS_RVSIM_IS_00033	04/12/23	10/12/22	MeCl2, Lot 224289	10 mL	MSS_SIMTEL_IS_00010	125 uL	1,4-Dichlorobenzene-d4	25 ppm
							Acenaphthene-d10	25 ppm
							Chrysene-d12	25 ppm
							Naphthalene-d8	25 ppm
							Perylene-d12	25 ppm
							Phenanthrene-d10	25 ppm
..MSS_SIMTEL_IS_00010	02/28/27		Restek, Lot A0170322		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
MSS_RVSIM_4_00025	12/13/22	10/27/22	MeCl2, Lot 224977	5 mL	MSS_PHTH_WS1_00012	125 uL	Bis(2-ethylhexyl) phthalate	2.5 ppm
							Butylbenzylphthalate	2.5 ppm
							Di-n-butyl phthalate	2.5 ppm
							Di-n-octyl phthalate	2.5 ppm
							Diethylphthalate	2.5 ppm
							Dimethylphthalate	2.5 ppm
					MSS_RVSIM_WS1_00014	250 uL	1,4-Dioxane	0.5 ppm
							Bis(2-chloroethyl)ether	0.5 ppm
							Hexachlorobenzene	0.5 ppm
							N-Nitrosodimethylamine	0.5 ppm
							1-Methylnaphthalene	0.5 ppm
							2-Methylnaphthalene	0.5 ppm
							Acenaphthene	0.5 ppm
							Acenaphthylene	0.5 ppm
							Anthracene	0.5 ppm
							Benzo[a]anthracene	0.5 ppm
							Benzo[a]pyrene	0.5 ppm
							Benzo[b]fluoranthene	0.5 ppm
							Benzo[g,h,i]perylene	0.5 ppm
							Benzo[k]fluoranthene	0.5 ppm
							Chrysene	0.5 ppm
							Dibenz(a,h)anthracene	0.5 ppm
							Dibenzofuran	0.5 ppm
							Fluoranthene	0.5 ppm
							Fluorene	0.5 ppm
							Indeno[1,2,3-cd]pyrene	0.5 ppm
							Naphthalene	0.5 ppm
							Phenanthrene	0.5 ppm
							Pyrene	0.5 ppm
							1-Methylnaphthalene-d10 (Surr)	0.5 ppm
							Benzo(a)pyrene-d12 (Surr)	0.5 ppm
							Fluoranthene-d10 (Surr)	0.5 ppm
.MSS_PHTH_WS1_00012	04/27/23	10/27/22	MeCl2, Lot 224977	2 mL	MSS_AB_PHTHAL_00008	100 uL	Bis(2-ethylhexyl) phthalate	100 ppm
							Butylbenzylphthalate	100 ppm
							Di-n-butyl phthalate	100 ppm
							Di-n-octyl phthalate	100 ppm
							Diethylphthalate	100 ppm
							Dimethylphthalate	100 ppm
..MSS_AB_PHTHAL_00008	06/18/24	Absolute, Lot 061821			(Purchased Reagent)		Bis(2-ethylhexyl) phthalate	2000 ug/mL
							Butylbenzylphthalate	2000 ug/mL
							Di-n-butyl phthalate	2000 ug/mL
							Di-n-octyl phthalate	2000 ug/mL
							Diethylphthalate	2000 ug/mL
							Dimethylphthalate	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.MSS_RVSIM_WS1_00014	12/13/22	06/13/22	MeCl2, Lot 222145	5 mL	MSS_AB_14DIOX_00007	50 uL	1,4-Dioxane	10 ppm
					MSS_AB_B2CEE_00003	50 uL	Bis(2-chloroethyl)ether	10 ppm
					MSS_AB_HCB_00009	50 uL	Hexachlorobenzene	10 ppm
					MSS_AB_NITROS_00006	25 uL	N-Nitrosodimethylamine	10 ppm
					MSS_AB_PAHSTD_00009	50 uL	1-Methylnaphthalene	10 ppm
							2-Methylnaphthalene	10 ppm
							Acenaphthene	10 ppm
							Acenaphthylene	10 ppm
							Anthracene	10 ppm
							Benzo[a]anthracene	10 ppm
							Benzo[a]pyrene	10 ppm
							Benzo[b]fluoranthene	10 ppm
							Benzo[g,h,i]perylene	10 ppm
							Benzo[k]fluoranthene	10 ppm
							Chrysene	10 ppm
							Dibenz(a,h)anthracene	10 ppm
							Dibenzofuran	10 ppm
							Fluoranthene	10 ppm
							Fluorene	10 ppm
							Indeno[1,2,3-cd]pyrene	10 ppm
							Naphthalene	10 ppm
							Phenanthrene	10 ppm
							Pyrene	10 ppm
					MSS_SIM_SURR_00006	50 uL	1-Methylnaphthalene-d10 (Surr)	10 ppm
							Benzo(a)pyrene-d12 (Surr)	10 ppm
							Fluoranthene-d10 (Surr)	10 ppm
..MSS_AB_14DIOX_00007	12/16/24		Absolute, Lot 121619		(Purchased Reagent)		1,4-Dioxane	1000 ug/mL
..MSS_AB_B2CEE_00003	03/23/23		Absolute, Lot 032318		(Purchased Reagent)		Bis(2-chloroethyl)ether	1000 ug/mL
..MSS_AB_HCB_00009	06/23/26		Absolute, Lot 062321		(Purchased Reagent)		Hexachlorobenzene	1000 ug/mL
..MSS_AB_NITROS_00006	04/23/23		Absolute, Lot 042320		(Purchased Reagent)		N-Nitrosodimethylamine	2000 ug/mL
..MSS_AB_PAHSTD_00009	06/05/23		Absolute, Lot 060518		(Purchased Reagent)		1-Methylnaphthalene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Naphthalene	1000 ug/mL
							Phenanthrene	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pyrene	1000 ug/mL
..MSS_SIM_SURR_00006	02/09/27	Restek, Lot A0168817			(Purchased Reagent)		1-Methylnaphthalene-d10 (Surr)	1000 ug/mL
							Benzo(a)pyrene-d12 (Surr)	1000 ug/mL
							Fluoranthene-d10 (Surr)	1000 ug/mL
MSS_RVSIM_5_00018	10/26/22	06/13/22	MeCl2, Lot 222145	1 mL	MSS_PHTH_WS1_00011	50 uL	Bis(2-ethylhexyl) phthalate	5 ppm
							Butylbenzylphthalate	5 ppm
							Di-n-butyl phthalate	5 ppm
							Di-n-octyl phthalate	5 ppm
							Diethylphthalate	5 ppm
							Dimethylphthalate	5 ppm
					MSS_RVSIM_IS_00029	10 uL	1,4-Dichlorobenzene-d4	0.25 ppm
							Acenaphthene-d10	0.25 ppm
							Chrysene-d12	0.25 ppm
							Naphthalene-d8	0.25 ppm
							Perylene-d12	0.25 ppm
							Phenanthrene-d10	0.25 ppm
					MSS_RVSIM_WS1_00014	100 uL	1,4-Dioxane	1 ppm
							Bis(2-chloroethyl)ether	1 ppm
							Hexachlorobenzene	1 ppm
							N-Nitrosodimethylamine	1 ppm
							N-Nitrosodiphenylamine	1 ppm
							1-Methylnaphthalene	1 ppm
							2-Methylnaphthalene	1 ppm
							Acenaphthene	1 ppm
							Acenaphthylene	1 ppm
							Anthracene	1 ppm
							Benzo[a]anthracene	1 ppm
							Benzo[a]pyrene	1 ppm
							Benzo[b]fluoranthene	1 ppm
							Benzo[e]pyrene	1 ppm
							Benzo[g,h,i]perylene	1 ppm
							Benzo[k]fluoranthene	1 ppm
							Chrysene	1 ppm
							Dibenz(a,h)anthracene	1 ppm
							Dibenzofuran	1 ppm
							Fluoranthene	1 ppm
							Fluorene	1 ppm
							Indeno[1,2,3-cd]pyrene	1 ppm
							Naphthalene	1 ppm
							Perylene	1 ppm
							Phenanthrene	1 ppm
							Pyrene	1 ppm
							Quinoline	1 ppm
							1-Methylnaphthalene-d10 (Surr)	1 ppm
							Benzo(a)pyrene-d12 (Surr)	1 ppm
							Fluoranthene-d10 (Surr)	1 ppm
.MSS_PHTH_WS1_00011	10/26/22	04/26/22	MeCl2, Lot 219045	2 mL	MSS_AB_PHTHAL_00004	100 uL	Bis(2-ethylhexyl) phthalate	100 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Butylbenzylphthalate	100 ppm
							Di-n-butyl phthalate	100 ppm
							Di-n-octyl phthalate	100 ppm
							Diethylphthalate	100 ppm
							Dimethylphthalate	100 ppm
..MSS_AB_PHTHAL_00004	10/20/23		Absolute, Lot 102720		(Purchased Reagent)		Bis(2-ethylhexyl) phthalate	2000 ug/mL
							Butylbenzylphthalate	2000 ug/mL
							Di-n-butyl phthalate	2000 ug/mL
							Di-n-octyl phthalate	2000 ug/mL
							Diethylphthalate	2000 ug/mL
							Dimethylphthalate	2000 ug/mL
.MSS_RVSIM_IS_00029	12/08/22	06/08/22	MeCl2, Lot 221500	10 mL	MSS_SIMTEL_IS_00010	125 uL	1,4-Dichlorobenzene-d4	25 ppm
							Acenaphthene-d10	25 ppm
							Chrysene-d12	25 ppm
							Naphthalene-d8	25 ppm
							Perylene-d12	25 ppm
							Phenanthrene-d10	25 ppm
..MSS_SIMTEL_IS_00010	02/28/27		Restek, Lot A0170322		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.MSS_RVSIM_WS1_00014	12/13/22	06/13/22	MeCl2, Lot 222145	5 mL	MSS_AB_14DIOX_00007	50 uL	1,4-Dioxane	10 ppm
					MSS_AB_B2CEE_00003	50 uL	Bis(2-chloroethyl)ether	10 ppm
					MSS_AB_HCB_00009	50 uL	Hexachlorobenzene	10 ppm
					MSS_AB_NITROS_00006	25 uL	N-Nitrosodimethylamine	10 ppm
							N-Nitrosodiphenylamine	10 ppm
					MSS_AB_PAHSTD_00009	50 uL	1-Methylnaphthalene	10 ppm
							2-Methylnaphthalene	10 ppm
							Acenaphthene	10 ppm
							Acenaphthylene	10 ppm
							Anthracene	10 ppm
							Benzo[a]anthracene	10 ppm
							Benzo[a]pyrene	10 ppm
							Benzo[b]fluoranthene	10 ppm
							Benzo[e]pyrene	10 ppm
							Benzo[g,h,i]perylene	10 ppm
							Benzo[k]fluoranthene	10 ppm
							Chrysene	10 ppm
							Dibenz(a,h)anthracene	10 ppm
							Dibenzofuran	10 ppm
							Fluoranthene	10 ppm
							Fluorene	10 ppm
							Indeno[1,2,3-cd]pyrene	10 ppm
							Naphthalene	10 ppm
							Perylene	10 ppm
							Phenanthrene	10 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pyrene	10 ppm
					MSS_AB_QUIN_00007	50 uL	Quinoline	10 ppm
					MSS_SIM_SURR_00006	50 uL	1-Methylnaphthalene-d10 (Surr)	10 ppm
							Benzo(a)pyrene-d12 (Surr)	10 ppm
							Fluoranthene-d10 (Surr)	10 ppm
..MSS_AB_14DIOX_00007	12/16/24		Absolute, Lot 121619		(Purchased Reagent)		1,4-Dioxane	1000 ug/mL
..MSS_AB_B2CEE_00003	03/23/23		Absolute, Lot 032318		(Purchased Reagent)		Bis(2-chloroethyl)ether	1000 ug/mL
..MSS_AB_HCB_00009	06/23/26		Absolute, Lot 062321		(Purchased Reagent)		Hexachlorobenzene	1000 ug/mL
..MSS_AB_NITROS_00006	04/23/23		Absolute, Lot 042320		(Purchased Reagent)		N-Nitrosodimethylamine	2000 ug/mL
							N-Nitrosodiphenylamine	2000 ug/mL
..MSS_AB_PAHSTD_00009	06/05/23		Absolute, Lot 060518		(Purchased Reagent)		1-Methylnaphthalene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[e]pyrene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Naphthalene	1000 ug/mL
							Perylene	1000 ug/mL
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL
..MSS_AB_QUIN_00007	06/18/23		Absolute, Lot 061820		(Purchased Reagent)		Quinoline	1000 ug/mL
..MSS_SIM_SURR_00006	02/09/27		Restek, Lot A0168817		(Purchased Reagent)		1-Methylnaphthalene-d10 (Surr)	1000 ug/mL
							Benzo(a)pyrene-d12 (Surr)	1000 ug/mL
							Fluoranthene-d10 (Surr)	1000 ug/mL
MSS_RVSIM_6_00015	10/26/22	06/13/22	MeCl2, Lot 222145	1 mL	MSS_PHTH_WS1_00011	100 uL	Bis(2-ethylhexyl) phthalate	10 ppm
							Butylbenzylphthalate	10 ppm
							Di-n-butyl phthalate	10 ppm
							Di-n-octyl phthalate	10 ppm
							Diethylphthalate	10 ppm
							Dimethylphthalate	10 ppm
					MSS_RVSIM_IS_00029	10 uL	1,4-Dichlorobenzene-d4	0.25 ppm
							Acenaphthene-d10	0.25 ppm
							Chrysene-d12	0.25 ppm
							Naphthalene-d8	0.25 ppm
							Perylene-d12	0.25 ppm
							Phenanthrene-d10	0.25 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					MSS_RVSIM_WS1_00014	250 uL	1,4-Dioxane	2.5 ppm
							Bis(2-chloroethyl)ether	2.5 ppm
							Hexachlorobenzene	2.5 ppm
							N-Nitrosodimethylamine	2.5 ppm
							N-Nitrosodiphenylamine	2.5 ppm
							1-Methylnaphthalene	2.5 ppm
							2-Methylnaphthalene	2.5 ppm
							Acenaphthene	2.5 ppm
							Acenaphthylene	2.5 ppm
							Anthracene	2.5 ppm
							Benzo[a]anthracene	2.5 ppm
							Benzo[a]pyrene	2.5 ppm
							Benzo[b]fluoranthene	2.5 ppm
							Benzo[e]pyrene	2.5 ppm
							Benzo[g,h,i]perylene	2.5 ppm
							Benzo[k]fluoranthene	2.5 ppm
							Chrysene	2.5 ppm
							Dibenz(a,h)anthracene	2.5 ppm
							Dibenzofuran	2.5 ppm
							Fluoranthene	2.5 ppm
							Fluorene	2.5 ppm
							Indeno[1,2,3-cd]pyrene	2.5 ppm
							Naphthalene	2.5 ppm
							Perylene	2.5 ppm
							Phenanthrene	2.5 ppm
							Pyrene	2.5 ppm
							Quinoline	2.5 ppm
							1-Methylnaphthalene-d10 (Surr)	2.5 ppm
							Benzo(a)pyrene-d12 (Surr)	2.5 ppm
							Fluoranthene-d10 (Surr)	2.5 ppm
.MSS_PHTH_WS1_00011	10/26/22	04/26/22	MeCl2, Lot 219045	2 mL	MSS_AB_PHTHAL_00004	100 uL	Bis(2-ethylhexyl) phthalate	100 ppm
							Butylbenzylphthalate	100 ppm
							Di-n-butyl phthalate	100 ppm
							Di-n-octyl phthalate	100 ppm
							Diethylphthalate	100 ppm
							Dimethylphthalate	100 ppm
..MSS_AB_PHTHAL_00004	10/20/23	Absolute, Lot 102720			(Purchased Reagent)		Bis(2-ethylhexyl) phthalate	2000 ug/mL
							Butylbenzylphthalate	2000 ug/mL
							Di-n-butyl phthalate	2000 ug/mL
							Di-n-octyl phthalate	2000 ug/mL
							Diethylphthalate	2000 ug/mL
							Dimethylphthalate	2000 ug/mL
.MSS_RVSIM_IS_00029	12/08/22	06/08/22	MeCl2, Lot 221500	10 mL	MSS_SIMTEL_IS_00010	125 uL	1,4-Dichlorobenzene-d4	25 ppm
							Acenaphthene-d10	25 ppm
							Chrysene-d12	25 ppm
							Naphthalene-d8	25 ppm
							Perylene-d12	25 ppm
							Phenanthrene-d10	25 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..MSS_SIMTEL_IS_00010	02/28/27		Restek, Lot A0170322		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.MSS_RVSIM_WS1_00014	12/13/22	06/13/22	MeCl2, Lot 222145	5 mL	MSS_AB_14DIOX_00007	50 uL	1,4-Dioxane	10 ppm
					MSS_AB_B2CEE_00003	50 uL	Bis(2-chloroethyl)ether	10 ppm
					MSS_AB_HCB_00009	50 uL	Hexachlorobenzene	10 ppm
					MSS_AB_NITROS_00006	25 uL	N-Nitrosodimethylamine	10 ppm
							N-Nitrosodiphenylamine	10 ppm
					MSS_AB_PAHSTD_00009	50 uL	1-Methylnaphthalene	10 ppm
							2-Methylnaphthalene	10 ppm
							Acenaphthene	10 ppm
							Acenaphthylene	10 ppm
							Anthracene	10 ppm
							Benzo[a]anthracene	10 ppm
							Benzo[a]pyrene	10 ppm
							Benzo[b]fluoranthene	10 ppm
							Benzo[e]pyrene	10 ppm
							Benzo[g,h,i]perylene	10 ppm
							Benzo[k]fluoranthene	10 ppm
							Chrysene	10 ppm
							Dibenz(a,h)anthracene	10 ppm
							Dibenzofuran	10 ppm
							Fluoranthene	10 ppm
							Fluorene	10 ppm
							Indeno[1,2,3-cd]pyrene	10 ppm
							Naphthalene	10 ppm
							Perylene	10 ppm
							Phenanthrene	10 ppm
							Pyrene	10 ppm
					MSS_AB_QUIN_00007	50 uL	Quinoline	10 ppm
					MSS_SIM_SURR_00006	50 uL	1-Methylnaphthalene-d10 (Surr)	10 ppm
							Benzo(a)pyrene-d12 (Surr)	10 ppm
							Fluoranthene-d10 (Surr)	10 ppm
..MSS_AB_14DIOX_00007	12/16/24		Absolute, Lot 121619		(Purchased Reagent)		1,4-Dioxane	1000 ug/mL
..MSS_AB_B2CEE_00003	03/23/23		Absolute, Lot 032318		(Purchased Reagent)		Bis(2-chloroethyl)ether	1000 ug/mL
..MSS_AB_HCB_00009	06/23/26		Absolute, Lot 062321		(Purchased Reagent)		Hexachlorobenzene	1000 ug/mL
..MSS_AB_NITROS_00006	04/23/23		Absolute, Lot 042320		(Purchased Reagent)		N-Nitrosodimethylamine	2000 ug/mL
							N-Nitrosodiphenylamine	2000 ug/mL
..MSS_AB_PAHSTD_00009	06/05/23		Absolute, Lot 060518		(Purchased Reagent)		1-Methylnaphthalene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[e]pyrene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Naphthalene	1000 ug/mL
							Perylene	1000 ug/mL
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL
..MSS_AB_QUIN_00007	06/18/23		Absolute, Lot 061820		(Purchased Reagent)		Quinoline	1000 ug/mL
..MSS_SIM_SURR_00006	02/09/27		Restek, Lot A0168817		(Purchased Reagent)		1-Methylnaphthalene-d10 (Surr)	1000 ug/mL
							Benzo(a)pyrene-d12 (Surr)	1000 ug/mL
							Fluoranthene-d10 (Surr)	1000 ug/mL
MSS_RVSIM_ICV_00031	09/08/22	05/20/22	MeCl2, Lot 212252	1 mL	MSS_FVSIM_ICV_00015	250 uL	1,4-Dichlorobenzene-d4	0.25 ppm
							Acenaphthene-d10	0.25 ppm
							Chrysene-d12	0.25 ppm
							Naphthalene-d8	0.25 ppm
							Perylene-d12	0.25 ppm
							Phenanthrene-d10	0.25 ppm
.MSS_FVSIM_ICV_00015	09/08/22	05/20/22	MeCl2, Lot 212252	10 mL	MSS_FVSIM_IS_00015	100 uL	1,4-Dichlorobenzene-d4	1 ppm
							Acenaphthene-d10	1 ppm
							Chrysene-d12	1 ppm
							Naphthalene-d8	1 ppm
							Perylene-d12	1 ppm
							Phenanthrene-d10	1 ppm
..MSS_FVSIM_IS_00015	09/08/22	03/08/22	MeCl2, Lot 218658	20 mL	MSS_SIMTEL_IS_00010	1000 uL	1,4-Dichlorobenzene-d4	100 ppm
							Acenaphthene-d10	100 ppm
							Chrysene-d12	100 ppm
							Naphthalene-d8	100 ppm
							Perylene-d12	100 ppm
							Phenanthrene-d10	100 ppm
...MSS_SIMTEL_IS_00010	02/28/27		Restek, Lot A0170322		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
MSS_RVSIM_ICV_00031	09/08/22	05/20/22	MeCl2, Lot 212252	1 mL	MSS_FVSIM_ICV_00015	250 uL	1,4-Dioxane	0.25 ppm
							1-Methylnaphthalene	0.25 ppm
							2-Methylnaphthalene	0.25 ppm
							Acenaphthene	0.25 ppm
							Acenaphthylene	0.25 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Anthracene	0.25 ppm
							Benzo[a]anthracene	0.25 ppm
							Benzo[a]pyrene	0.25 ppm
							Benzo[b]fluoranthene	0.25 ppm
							Benzo[g,h,i]perylene	0.25 ppm
							Benzo[k]fluoranthene	0.25 ppm
							Bis(2-chloroethyl)ether	0.25 ppm
							Bis(2-ethylhexyl) phthalate	0.25 ppm
							Butylbenzylphthalate	0.25 ppm
							Chrysene	0.25 ppm
							Di-n-butyl phthalate	0.25 ppm
							Di-n-octyl phthalate	0.25 ppm
							Dibenz(a,h)anthracene	0.25 ppm
							Dibenzofuran	0.25 ppm
							Diethylphthalate	0.25 ppm
							Dimethylphthalate	0.25 ppm
							Fluoranthene	0.25 ppm
							Fluorene	0.25 ppm
							Hexachlorobenzene	0.25 ppm
							Indeno[1,2,3-cd]pyrene	0.25 ppm
							N-Nitrosodimethylamine	0.25 ppm
							Naphthalene	0.25 ppm
							Phenanthrene	0.25 ppm
							Pyrene	0.25 ppm
.MSS_FVSIM_ICV_00015	09/08/22	05/20/22	MeCl2, Lot 212252	10 mL	MS_RES_ICV1_00002	10 uL	1,4-Dioxane	1 ppm
							1-Methylnaphthalene	1 ppm
							2-Methylnaphthalene	1 ppm
							Acenaphthene	1 ppm
							Acenaphthylene	1 ppm
							Anthracene	1 ppm
							Benzo[a]anthracene	1 ppm
							Benzo[a]pyrene	1 ppm
							Benzo[b]fluoranthene	1 ppm
							Benzo[g,h,i]perylene	1 ppm
							Benzo[k]fluoranthene	1 ppm
							Bis(2-chloroethyl)ether	1 ppm
							Bis(2-ethylhexyl) phthalate	1 ppm
							Butylbenzylphthalate	1 ppm
							Chrysene	1 ppm
							Di-n-butyl phthalate	1 ppm
							Di-n-octyl phthalate	1 ppm
							Dibenz(a,h)anthracene	1 ppm
							Dibenzofuran	1 ppm
							Diethylphthalate	1 ppm
							Dimethylphthalate	1 ppm
							Fluoranthene	1 ppm
							Fluorene	1 ppm
							Hexachlorobenzene	1 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Indeno[1,2,3-cd]pyrene	1 ppm
							N-Nitrosodimethylamine	1 ppm
							Naphthalene	1 ppm
							Phenanthrene	1 ppm
							Pyrene	1 ppm
..MS_RES_ICV1_00002	09/30/22		Restek, Lot A0169665		(Purchased Reagent)		1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butylbenzylphthalate	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethylphthalate	1000 ug/mL
							Dimethylphthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							Naphthalene	1000 ug/mL
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL
MSS_RVSIM_IS_00032	03/19/23	09/19/22	MeCl2, Lot 223824	10 mL	MSS_SIMTEL_IS_00010	125 uL	1,4-Dichlorobenzene-d4	25 ppm
							Acenaphthene-d10	25 ppm
							Chrysene-d12	25 ppm
							Naphthalene-d8	25 ppm
							Perylene-d12	25 ppm
							Phenanthrene-d10	25 ppm
.MSS_SIMTEL_IS_00010	02/28/27		Restek, Lot A0170322		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
MSS_RVSIM_IS_00033	04/12/23	10/12/22	MeCl2, Lot 224289	10 mL	MSS_SIMTEL_IS_00010	125 uL	1,4-Dichlorobenzene-d4	25 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acenaphthene-d10	25 ppm
							Chrysene-d12	25 ppm
							Naphthalene-d8	25 ppm
							Perylene-d12	25 ppm
							Phenanthrene-d10	25 ppm
.MSS_SIMTEL_IS_00010	02/28/27		Restek, Lot A0170322		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
MSV_4ppbEtoh_00452	10/31/22	10/27/22	DI Water, Lot DI 21319	1000 mL	MSV_CCV_2CEVE_00090	4 uL	2-Chloroethyl vinyl ether	0.004 ug/mL
					MSV_CCV_CYC_00004	32 uL	Cyclohexanone	0.200013 ug/mL
					MSV_CCV_ETOH_00003	20 uL	Ethanol	0.250006 ug/mL
					MSV_CCV_GASES_00292	2 uL	1,2-Dichloro-1,1,2-trifluoroethane	0.004 ug/mL
							Bromomethane	0.004 ug/mL
							Butadiene	0.004 ug/mL
							Chloroethane	0.004 ug/mL
							Chloromethane	0.004 ug/mL
							Dichlorodifluoromethane	0.004 ug/mL
							Dichlorofluoromethane	0.004 ug/mL
							Trichlorofluoromethane	0.004 ug/mL
							Vinyl chloride	0.004 ug/mL
					MSV_CCV_VOC#1_00094	4 uL	1,1,1,2-Tetrachloroethane	0.004 ug/mL
							1,1,1-Trichloroethane	0.004 ug/mL
							1,1,2,2-Tetrachloroethane	0.004 ug/mL
							1,1,2-Trichloroethane	0.004 ug/mL
							1,1-Dichloroethane	0.004 ug/mL
							1,1-Dichloroethene	0.004 ug/mL
							1,1-Dichloropropene	0.004 ug/mL
							1,2,3-Trichlorobenzene	0.004 ug/mL
							1,2,3-Trichloropropane	0.004 ug/mL
							1,2,4-Trichlorobenzene	0.004 ug/mL
							1,2,4-Trimethylbenzene	0.004 ug/mL
							1,2-Dibromo-3-Chloropropane	0.004 ug/mL
							1,2-Dibromoethane	0.004 ug/mL
							1,2-Dichlorobenzene	0.004 ug/mL
							1,2-Dichloroethane	0.004 ug/mL
							1,2-Dichloropropane	0.004 ug/mL
							1,3,5-Trimethylbenzene	0.004 ug/mL
							1,3-Dichlorobenzene	0.004 ug/mL
							1,3-Dichloropropane	0.004 ug/mL
							1,4-Dichlorobenzene	0.004 ug/mL
							2,2-Dichloropropane	0.004 ug/mL
							2-Chlorotoluene	0.004 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Chlorotoluene	0.004 ug/mL
							4-Isopropyltoluene	0.004 ug/mL
							Benzene	0.004 ug/mL
							Bromobenzene	0.004 ug/mL
							Bromodichloromethane	0.004 ug/mL
							Bromoform	0.004 ug/mL
							Carbon tetrachloride	0.004 ug/mL
							Chlorobenzene	0.004 ug/mL
							Chlorobromomethane	0.004 ug/mL
							Chloroform	0.004 ug/mL
							cis-1,2-Dichloroethene	0.004 ug/mL
							cis-1,3-Dichloropropene	0.004 ug/mL
							Dibromochloromethane	0.004 ug/mL
							Dibromomethane	0.004 ug/mL
							Ethylbenzene	0.004 ug/mL
							Hexachlorobutadiene	0.004 ug/mL
							Isopropylbenzene	0.004 ug/mL
							m-Xylene & p-Xylene	0.008 ug/mL
							Methylene Chloride	0.004 ug/mL
							n-Butylbenzene	0.004 ug/mL
							N-Propylbenzene	0.004 ug/mL
							Naphthalene	0.004 ug/mL
							o-Xylene	0.004 ug/mL
							sec-Butylbenzene	0.004 ug/mL
							Styrene	0.004 ug/mL
							tert-Butylbenzene	0.004 ug/mL
							Tetrachloroethene	0.004 ug/mL
							Toluene	0.004 ug/mL
							trans-1,2-Dichloroethene	0.004 ug/mL
							trans-1,3-Dichloropropene	0.004 ug/mL
							Trichloroethene	0.004 ug/mL
							1,2,3-Trimethylbenzene	0.004 ug/mL
							1,3,5-Trichlorobenzene	0.004 ug/mL
							1,3-Diethylbenzene	0.004 ug/mL
							1,4-Dioxane	0.2 ug/mL
							1-Chlorohexane	0.004 ug/mL
							2-Chloro-1,3-butadiene	0.004 ug/mL
							2-ethoxy-2-methyl butane	0.004 ug/mL
							2-Methyl-2-propanol	0.08 ug/mL
							2-Methylnaphthalene	0.004 ug/mL
							2-Nitropropane	0.02 ug/mL
							3-Chloro-1-propene	0.004 ug/mL
							Acrylonitrile	0.01 ug/mL
							Benzyl chloride	0.004 ug/mL
							Carbon disulfide	0.004 ug/mL
							Cyclohexane	0.004 ug/mL
							Ethyl methacrylate	0.004 ug/mL
							Freon 113	0.004 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexane	0.004 ug/mL
							Iodomethane	0.004 ug/mL
							Isobutyl alcohol	0.2 ug/mL
							Isopropyl alcohol	0.08 ug/mL
							Isopropyl ether	0.004 ug/mL
							Methacrylonitrile	0.04 ug/mL
							Methyl acetate	0.004 ug/mL
							Methyl methacrylate	0.004 ug/mL
							Methyl tertiary butyl ether	0.004 ug/mL
							Methylcyclohexane	0.004 ug/mL
							n-Butanol	0.35 ug/mL
							n-Heptane	0.004 ug/mL
							o-diethylbenzene	0.004 ug/mL
							p-Diethylbenzene	0.004 ug/mL
							Pentane	0.004 ug/mL
							Propionitrile	0.08 ug/mL
							Tert-amyl methyl ether	0.004 ug/mL
							Tert-butyl ethyl ether	0.004 ug/mL
							Tetrahydrofuran	0.02 ug/mL
							trans-1,4-Dichloro-2-butene	0.04 ug/mL
					MSV_CCV_VOC#3_00094	3.2 uL	Acrolein	0.0400007 ug/mL
							2-Butanone	0.008 ug/mL
							2-Hexanone	0.008 ug/mL
							4-Methyl-2-pentanone	0.008 ug/mL
							Acetone	0.008 ug/mL
					MSV_V_VOA2_00163	12 uL	1,4-Dioxane	0.2 ug/mL
							2-Methyl-2-propanol	0.08 ug/mL
							Isobutyl alcohol	0.2 ug/mL
							Isopropyl alcohol	0.08 ug/mL
							Methacrylonitrile	0.04 ug/mL
							n-Butanol	0.35 ug/mL
							Propionitrile	0.08 ug/mL
							trans-1,4-Dichloro-2-butene	0.04 ug/mL
.MSV_CCV_2CEVE_00090	11/22/22	10/23/22	Methanol, Lot EB679	5 mL	MSV_V_2CLEVE_00093	1 mL	2-Chloroethyl vinyl ether	1000 ug/mL
..MSV_V_2CLEVE_00093	04/30/24		Restek, Lot A0171422		(Purchased Reagent)		2-Chloroethyl vinyl ether	5000 ug/mL
.MSV_CCV_CYC_00004	01/28/23	07/28/22	50/50 MeOH/Water, Lot EB679	100 mL	MSV_VCYC_STK_00008	2.787 mL	Cyclohexanone	6250.4 ug/mL
..MSV_VCYC_STK_00008	01/28/23	07/28/22	50/50 MeOH/Water, Lot EB679	10 mL	MSV_CYC_00007	2.2427 g	Cyclohexanone	224270 ug/mL
...MSV_CYC_00007	05/31/23		Chem Service, Lot 12628400		(Purchased Reagent)		Cyclohexanone	1 g/g
.MSV_CCV_ETOH_00003	04/11/23	10/11/22	Methanol, Lot EB679	200 mL	MSV_VETOH_STK_00011	8.612 mL	Ethanol	12500.3 ug/mL
..MSV_VETOH_STK_00011	04/11/23	10/11/22	Methanol, Lot EB679	10 mL	MSV_EtOH_00034	2.903 g	Ethanol	290300 ug/mL
...MSV_EtOH_00034	08/30/25		Chem Service, Lot 13347300		(Purchased Reagent)		Ethanol	1 g/g
.MSV_CCV_GASES_00292	11/03/22		Restek, Lot A0184815		(Purchased Reagent)		1,2-Dichloro-1,1,2-trifluoroethane	2000 ug/mL
							Bromomethane	2000 ug/mL
							Butadiene	2000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_VOC#1_00094	11/22/22	10/23/22	Methanol, Lot EB679	5 mL	MSV_MegaMIX#1_00094	1 mL	1,1,1,2-Tetrachloroethane	1000 ug/mL
							1,1,1-Trichloroethane	1000 ug/mL
							1,1,2,2-Tetrachloroethane	1000 ug/mL
							1,1,2-Trichloroethane	1000 ug/mL
							1,1-Dichloroethane	1000 ug/mL
							1,1-Dichloroethene	1000 ug/mL
							1,1-Dichloropropene	1000 ug/mL
							1,2,3-Trichlorobenzene	1000 ug/mL
							1,2,3-Trichloropropane	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2,4-Trimethylbenzene	1000 ug/mL
							1,2-Dibromo-3-Chloropropane	1000 ug/mL
							1,2-Dibromoethane	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
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL
							Chlorobromomethane	1000 ug/mL
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL
							Dibromomethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Isopropylbenzene	1000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methylene Chloride	1000 ug/mL
							n-Butylbenzene	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00091	1 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
							Freon 113	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 tertiary 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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..MSV_MegaMIX#1_00094	11/22/22		Restek, Lot A0171634		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	5000 ug/mL
							1,1,1-Trichloroethane	5000 ug/mL
							1,1,2,2-Tetrachloroethane	5000 ug/mL
							1,1,2-Trichloroethane	5000 ug/mL
							1,1-Dichloroethane	5000 ug/mL
							1,1-Dichloroethene	5000 ug/mL
							1,1-Dichloropropene	5000 ug/mL
							1,2,3-Trichlorobenzene	5000 ug/mL
							1,2,3-Trichloropropane	5000 ug/mL
							1,2,4-Trichlorobenzene	5000 ug/mL
							1,2,4-Trimethylbenzene	5000 ug/mL
							1,2-Dibromo-3-Chloropropane	5000 ug/mL
							1,2-Dibromoethane	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
							Bromodichloromethane	5000 ug/mL
							Bromoform	5000 ug/mL
							Carbon tetrachloride	5000 ug/mL
							Chlorobenzene	5000 ug/mL
							Chlorobromomethane	5000 ug/mL
							Chloroform	5000 ug/mL
							cis-1,2-Dichloroethene	5000 ug/mL
							cis-1,3-Dichloropropene	5000 ug/mL
							Dibromochloromethane	5000 ug/mL
							Dibromomethane	5000 ug/mL
							Ethylbenzene	5000 ug/mL
							Hexachlorobutadiene	5000 ug/mL
							Isopropylbenzene	5000 ug/mL
							m-Xylene & p-Xylene	10000 ug/mL
							Methylene Chloride	5000 ug/mL
							n-Butylbenzene	5000 ug/mL
							N-Propylbenzene	5000 ug/mL
							Naphthalene	5000 ug/mL
							o-Xylene	5000 ug/mL
							sec-Butylbenzene	5000 ug/mL
							Styrene	5000 ug/mL
							tert-Butylbenzene	5000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00091	11/22/22		Restek, Lot A0173454		(Purchased Reagent)		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
							Freon 113	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 tertiary 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#3_00094	11/10/22	10/23/22	Methanol, Lot EB679	5 mL	MSV_CCV_ACR_00006	0.5 mL	Acrolein	12500.2 ug/mL
					MSV_V_Ketones_00089	1 mL	2-Butanone	2500 ug/mL
							2-Hexanone	2500 ug/mL
							4-Methyl-2-pentanone	2500 ug/mL
							Acetone	2500 ug/mL
..MSV_CCV_ACR_00006	11/10/22	09/11/22	Methanol, Lot EB679	10 mL	MSV_VACR_STK_00028	9.232 mL	Acrolein	125002 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...MSV_VACR_STK_00028	11/10/22	09/11/22	Methanol, Lot EB679	10 mL	MSV_ACROLEIN_00022	1.4528 g	Acrolein	135401 ug/mL
....MSV_ACROLEIN_00022	02/28/23	Chem Service, Lot 12926800			(Purchased Reagent)		Acrolein	0.932 g/g
..MSV_V_Ketones_00089	01/31/25	Restek, Lot A0180742			(Purchased Reagent)		2-Butanone	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone	12500 ug/mL
							Acetone	12500 ug/mL
.MSV_V_VOA2_00163	11/22/22	10/23/22	Methanol, Lot EB679	5 mL	MSV_V#2B_00292	1 mL	1,4-Dioxane	12500 ug/mL
							2-Methyl-2-propanol	5000 ug/mL
							Isobutyl alcohol	12500 ug/mL
							Isopropyl alcohol	5000 ug/mL
							Methacrylonitrile	2500 ug/mL
							n-Butanol	25000 ug/mL
							Propionitrile	5000 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
..MSV_V#2B_00292	04/30/24	Restek, Lot A0184378			(Purchased Reagent)		1,4-Dioxane	62500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropyl alcohol	25000 ug/mL
							Methacrylonitrile	12500 ug/mL
							n-Butanol	125000 ug/mL
							Propionitrile	25000 ug/mL
							trans-1,4-Dichloro-2-butene	12500 ug/mL
MSV_CCV_2CEVE_00090	11/22/22	10/23/22	Methanol, Lot EB679	5 mL	MSV_V_2CLEVE_00093	1 mL	2-Chloroethyl vinyl ether	1000 ug/mL
.MSV_V_2CLEVE_00093	04/30/24	Restek, Lot A0171422			(Purchased Reagent)		2-Chloroethyl vinyl ether	5000 ug/mL
MSV_CCV_CYC_00004	01/28/23	07/28/22	50/50 MeOH/Water, Lot EB679	100 mL	MSV_VCYC_STK_00008	2.787 mL	Cyclohexanone	6250.4 ug/mL
.MSV_VCYC_STK_00008	01/28/23	07/28/22	50/50 MeOH/Water, Lot EB679	10 mL	MSV_CYC_00007	2.2427 g	Cyclohexanone	224270 ug/mL
..MSV_CYC_00007	05/31/23	Chem Service, Lot 12628400			(Purchased Reagent)		Cyclohexanone	1 g/g
MSV_CCV_EE_00003	11/20/22	05/20/22	Methanol, Lot EB679	100 mL	MSV_EE_MISCSK_00010	1.73 mL	Ethyl ether	1000.29 ug/mL
.MSV_EE_MISCSK_00010	11/20/22	05/20/22	Methanol, Lot EB679	10 mL	MSV_EE_Neat_00007	0.5782 g	Ethyl ether	57820 ug/mL
..MSV_EE_Neat_00007	12/31/25	Chem Service, Lot 12123300			(Purchased Reagent)		Ethyl ether	1 g/g
MSV_CCV_ETOH_00003	04/11/23	10/11/22	Methanol, Lot EB679	200 mL	MSV_VETOH_STK_00011	8.612 mL	Ethanol	12500.3 ug/mL
.MSV_VETOH_STK_00011	04/11/23	10/11/22	Methanol, Lot EB679	10 mL	MSV_EtOH_00034	2.903 g	Ethanol	290300 ug/mL
..MSV_EtOH_00034	08/30/25	Chem Service, Lot 13347300			(Purchased Reagent)		Ethanol	1 g/g
MSV_CCV_GASES_00292	11/03/22	Restek, Lot A0184815			(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_00320	12/05/22	Restek, Lot A0184815			(Purchased Reagent)		Bromomethane	2000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_CCV_LKB_00002	12/29/22	08/09/22	Methanol, Lot EB679	50 mL	MSV_V234TCB_S_00006	0.981 mL	2,3,4-Trichlorobutene	999.995 ug/mL
					MSV_V34D1B_SK_00008	0.553 mL	3,4-Dichloro-1-butene	999.271 ug/mL
					MSV_Vc14d_STK_00007	2.139 mL	cis-1,4-Dichloro-2-butene	999.769 ug/mL
.MSV_V234TCB_S_00006	12/29/22	08/09/22	Methanol, Lot DZ644	10 mL	MSV_2,3,4TCB_00006	0.5528 g	2,3,4-Trichlorobutene	50968.2 ug/mL
..MSV_2,3,4TCB_00006	01/31/24	Chem Service, Lot 11793200			(Purchased Reagent)		2,3,4-Trichlorobutene	0.922 g/g
.MSV_V34D1B_SK_00008	12/29/22	08/09/22	Methanol, Lot EB679	10 mL	MSV_3,4DC1Be_00002	0.9035 g	3,4-Dichloro-1-butene	90350 ug/mL
..MSV_3,4DC1Be_00002	12/29/22	TCI, Lot 6432K			(Purchased Reagent)		3,4-Dichloro-1-butene	1 g/g
.MSV_Vc14d_STK_00007	12/29/22	08/09/22	Methanol, Lot EB679	10 mL	MSV_c14dcb_Nt_00003	0.246 g	cis-1,4-Dichloro-2-butene	23370 ug/mL
..MSV_c14dcb_Nt_00003	08/11/25	Aldrich, Lot SHBH4584V			(Purchased Reagent)		cis-1,4-Dichloro-2-butene	0.95 g/g
MSV_CCV_Penta_00025	11/13/22	10/13/22	Methanol, Lot EB679	1 mL	MSV_V_PentaCL_00025	200 uL	Pentachloroethane	1000 ug/mL
.MSV_V_PentaCL_00025	11/12/22	Restek, Lot A0171341			(Purchased Reagent)		Pentachloroethane	5000 ug/mL
MSV_CCV_V5ACE_00016	10/31/22	10/08/22	Methanol, Lot EB679	10 mL	MSV_AcetatesV_00014	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_00014	10/31/22	Restek, Lot A0171524			(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_00094	11/22/22	10/23/22	Methanol, Lot EB679	5 mL	MSV_MegaMIX#1_00094	1 mL	1,1,1,2-Tetrachloroethane	1000 ug/mL
							1,1,1-Trichloroethane	1000 ug/mL
							1,1,2,2-Tetrachloroethane	1000 ug/mL
							1,1,2-Trichloroethane	1000 ug/mL
							1,1-Dichloroethane	1000 ug/mL
							1,1-Dichloroethene	1000 ug/mL
							1,1-Dichloropropene	1000 ug/mL
							1,2,3-Trichlorobenzene	1000 ug/mL
							1,2,3-Trichloropropane	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2,4-Trimethylbenzene	1000 ug/mL
							1,2-Dibromo-3-Chloropropane	1000 ug/mL
							1,2-Dibromoethane	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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL
							Chlorobromomethane	1000 ug/mL
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL
							Dibromomethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Isopropylbenzene	1000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methylene Chloride	1000 ug/mL
							n-Butylbenzene	1000 ug/mL
							N-Propylbenzene	1000 ug/mL
							Naphthalene	1000 ug/mL
							o-Xylene	1000 ug/mL
							sec-Butylbenzene	1000 ug/mL
							Styrene	1000 ug/mL
							tert-Butylbenzene	1000 ug/mL
							Tetrachloroethene	1000 ug/mL
							Toluene	1000 ug/mL
							trans-1,2-Dichloroethene	1000 ug/mL
							trans-1,3-Dichloropropene	1000 ug/mL
							Trichloroethene	1000 ug/mL
					MSV_MegaMix#2_00091	1 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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbon disulfide	1000 ug/mL
							Cyclohexane	1000 ug/mL
							Ethyl methacrylate	1000 ug/mL
							Freon 113	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 tertiary 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_00094	11/22/22		Restek, Lot A0171634		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	5000 ug/mL
							1,1,1-Trichloroethane	5000 ug/mL
							1,1,2,2-Tetrachloroethane	5000 ug/mL
							1,1,2-Trichloroethane	5000 ug/mL
							1,1-Dichloroethane	5000 ug/mL
							1,1-Dichloroethene	5000 ug/mL
							1,1-Dichloropropene	5000 ug/mL
							1,2,3-Trichlorobenzene	5000 ug/mL
							1,2,3-Trichloropropane	5000 ug/mL
							1,2,4-Trichlorobenzene	5000 ug/mL
							1,2,4-Trimethylbenzene	5000 ug/mL
							1,2-Dibromo-3-Chloropropane	5000 ug/mL
							1,2-Dibromoethane	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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzene	5000 ug/mL
							Bromobenzene	5000 ug/mL
							Bromodichloromethane	5000 ug/mL
							Bromoform	5000 ug/mL
							Carbon tetrachloride	5000 ug/mL
							Chlorobenzene	5000 ug/mL
							Chlorobromomethane	5000 ug/mL
							Chloroform	5000 ug/mL
							cis-1,2-Dichloroethene	5000 ug/mL
							cis-1,3-Dichloropropene	5000 ug/mL
							Dibromochloromethane	5000 ug/mL
							Dibromomethane	5000 ug/mL
							Ethylbenzene	5000 ug/mL
							Hexachlorobutadiene	5000 ug/mL
							Isopropylbenzene	5000 ug/mL
							m-Xylene & p-Xylene	10000 ug/mL
							Methylene Chloride	5000 ug/mL
							n-Butylbenzene	5000 ug/mL
							N-Propylbenzene	5000 ug/mL
							Naphthalene	5000 ug/mL
							o-Xylene	5000 ug/mL
							sec-Butylbenzene	5000 ug/mL
							Styrene	5000 ug/mL
							tert-Butylbenzene	5000 ug/mL
							Tetrachloroethene	5000 ug/mL
							Toluene	5000 ug/mL
							trans-1,2-Dichloroethene	5000 ug/mL
							trans-1,3-Dichloropropene	5000 ug/mL
							Trichloroethene	5000 ug/mL
.MSV_MegaMix#2_00091	11/22/22		Restek, Lot A0173454		(Purchased Reagent)		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
							Freon 113	5000 ug/mL
							Hexane	5000 ug/mL
							Iodomethane	5000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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 tertiary 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_00099	12/27/22	11/27/22	Methanol, Lot EB679	5 mL	MSV_MegaMIX#1_00099	1 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
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2,4-Trimethylbenzene	1000 ug/mL
							1,2-Dibromo-3-Chloropropane	1000 ug/mL
							1,2-Dibromoethane	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
							1,4-Dichlorobenzene	1000 ug/mL
							Benzene	1000 ug/mL
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Isopropylbenzene	1000 ug/mL
							Methylene Chloride	1000 ug/mL
							Styrene	1000 ug/mL
							Tetrachloroethene	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Toluene	1000 ug/mL
							trans-1,2-Dichloroethene	1000 ug/mL
							trans-1,3-Dichloropropene	1000 ug/mL
							Trichloroethene	1000 ug/mL
					MSV_MegaMix#2_00096	1 mL	Carbon disulfide	1000 ug/mL
							Cyclohexane	1000 ug/mL
							Freon 113	1000 ug/mL
							Methyl acetate	1000 ug/mL
							Methyl tertiary butyl ether	1000 ug/mL
							Methylcyclohexane	1000 ug/mL
.MSV_MegaMIX#1_00099	12/27/22		Restek, Lot A0184527		(Purchased Reagent)		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
							1,2,4-Trichlorobenzene	5000 ug/mL
							1,2,4-Trimethylbenzene	5000 ug/mL
							1,2-Dibromo-3-Chloropropane	5000 ug/mL
							1,2-Dibromoethane	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
							1,4-Dichlorobenzene	5000 ug/mL
							Benzene	5000 ug/mL
							Bromodichloromethane	5000 ug/mL
							Bromoform	5000 ug/mL
							Carbon tetrachloride	5000 ug/mL
							Chlorobenzene	5000 ug/mL
							Chloroform	5000 ug/mL
							cis-1,2-Dichloroethene	5000 ug/mL
							cis-1,3-Dichloropropene	5000 ug/mL
							Dibromochloromethane	5000 ug/mL
							Ethylbenzene	5000 ug/mL
							Isopropylbenzene	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_00096	12/27/22		Restek, Lot A0173454		(Purchased Reagent)		Carbon disulfide	5000 ug/mL
							Cyclohexane	5000 ug/mL
							Freon 113	5000 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tertiary butyl ether	5000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methylcyclohexane	5000 ug/mL
MSV_CCV_VOC#3_00094	11/10/22	10/23/22	Methanol, Lot EB679	5 mL	MSV_CCV_ACR_00006	0.5 mL	Acrolein	12500.2 ug/mL
					MSV_V_Ketones_00089	1 mL	2-Butanone	2500 ug/mL
							2-Hexanone	2500 ug/mL
							4-Methyl-2-pentanone	2500 ug/mL
							Acetone	2500 ug/mL
.MSV_CCV_ACR_00006	11/10/22	09/11/22	Methanol, Lot EB679	10 mL	MSV_VACR_STK_00028	9.232 mL	Acrolein	125002 ug/mL
..MSV_VACR_STK_00028	11/10/22	09/11/22	Methanol, Lot EB679	10 mL	MSV_ACROLEIN_00022	1.4528 g	Acrolein	135401 ug/mL
...MSV_ACROLEIN_00022	02/28/23	Chem Service, Lot 12926800			(Purchased Reagent)		Acrolein	0.932 g/g
.MSV_V_Ketones_00089	01/31/25	Restek, Lot A0180742			(Purchased Reagent)		2-Butanone	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone	12500 ug/mL
							Acetone	12500 ug/mL
MSV_CCV_VOC#3_00099	12/27/22	11/27/22	Methanol, Lot EB679	5 mL	MSV_V_Ketones_00093	1 mL	2-Butanone	2500 ug/mL
							2-Hexanone	2500 ug/mL
							4-Methyl-2-pentanone	2500 ug/mL
							Acetone	2500 ug/mL
.MSV_V_Ketones_00093	01/31/25	Restek, Lot A0180742			(Purchased Reagent)		2-Butanone	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone	12500 ug/mL
							Acetone	12500 ug/mL
MSV_Cent_IS_O_00007	04/24/23	10/24/22	Methanol, Lot EB679	50 mL	MSV_Cus826_IS_00502	1 mL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5 (IS)	50 ug/mL
							Fluorobenzene (IS)	50 ug/mL
							t-Butyl alcohol-d10 (IS)	250 ug/mL
.MSV_Cus826_IS_00502	04/24/23	Restek, Lot A0184225			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5 (IS)	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
							t-Butyl alcohol-d10 (IS)	12500 ug/mL
MSV_Cent_ISSS_00011	03/12/23	09/12/22	Methanol, Lot EB679	50 mL	MSV_Cus826_IS_00490	1 mL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5 (IS)	50 ug/mL
							Fluorobenzene (IS)	50 ug/mL
							t-Butyl alcohol-d10 (IS)	250 ug/mL
.MSV_Cus826_IS_00490	04/30/25	Restek, Lot A0184225			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5 (IS)	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
							t-Butyl alcohol-d10 (IS)	12500 ug/mL
MSV_Cent_ISSS_00011	03/12/23	09/12/22	Methanol, Lot EB679	50 mL	MSV_8260_SS_00747	1 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.MSV_8260_SS_00747	04/30/27	Restek, Lot A0184230			(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
MSV_Cent_ISSS_00013	04/24/23	10/24/22	Methanol, Lot EB679	50 mL	MSV_8260_SS_00775	1 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
					MSV_Cus826_IS_00502	1 mL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5 (IS)	50 ug/mL
							Fluorobenzene (IS)	50 ug/mL
							t-Butyl alcohol-d10 (IS)	250 ug/mL
.MSV_8260_SS_00775	04/24/23		Restek, Lot A0183565		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
.MSV_Cus826_IS_00502	04/24/23		Restek, Lot A0184225		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5 (IS)	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
							t-Butyl alcohol-d10 (IS)	12500 ug/mL
MSV_LCS_Gases_00111	10/30/22	10/23/22	Methanol, Lot EB679	25 mL	MSV_QC_2K_GAS_00114	0.5 mL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Dichlorodifluoromethane	40 ug/mL
							Trichlorofluoromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MSV_QC_2K_GAS_00114	10/30/22		Restek, Lot A0172021		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_LCS_Gases_00116	12/04/22	11/27/22	Methanol, Lot EB679	25 mL	MSV_QC_2K_GAS_00119	0.5 mL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Dichlorodifluoromethane	40 ug/mL
							Trichlorofluoromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MSV_QC_2K_GAS_00119	12/04/22		Restek, Lot A0172021		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_LCS_VOC#1_00079	11/22/22	10/23/22	Methanol, Lot EB679	25 mL	MSV_M_MIX1SEC_00095	1 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
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2,4-Trimethylbenzene	40 ug/mL
							1,2-Dibromo-3-Chloropropane	40 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dibromoethane	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Dichloroethane	40 ug/mL
							1,2-Dichloropropane	40 ug/mL
							1,3,5-Trimethylbenzene	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							Benzene	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
							Isopropylbenzene	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_00093	1 mL	Carbon disulfide	40 ug/mL
							Cyclohexane	40 ug/mL
							Freon 113	40 ug/mL
							Methyl acetate	40 ug/mL
							Methyl tertiary butyl ether	40 ug/mL
							Methylcyclohexane	40 ug/mL
					MSV_Q_Ketones_00092	1 mL	2-Butanone	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone	500 ug/mL
							Acetone	500 ug/mL
.MSV_M_MIX1SEC_00095	04/30/25		Restek, Lot A0184354		(Purchased Reagent)		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
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2,4-Trimethylbenzene	1000 ug/mL
							1,2-Dibromo-3-Chloropropane	1000 ug/mL
							1,2-Dibromoethane	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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dichlorobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							Benzene	1000 ug/mL
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Isopropylbenzene	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_00093	04/30/25		Restek, Lot A0184412		(Purchased Reagent)		Carbon disulfide	1000 ug/mL
							Cyclohexane	1000 ug/mL
							Freon 113	1000 ug/mL
							Methyl acetate	1000 ug/mL
							Methyl tertiary butyl ether	1000 ug/mL
							Methylcyclohexane	1000 ug/mL
.MSV_Q_Ketones_00092	11/30/24		Restek, Lot A0178490		(Purchased Reagent)		2-Butanone	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone	12500 ug/mL
							Acetone	12500 ug/mL
MSV_LCS_VOC#1_00084	12/27/22	11/27/22	Methanol, Lot EB679	25 mL	MSV_M_MIX1SEC_00101	1 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
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2,4-Trimethylbenzene	40 ug/mL
							1,2-Dibromo-3-Chloropropane	40 ug/mL
							1,2-Dibromoethane	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Dichloroethane	40 ug/mL
							1,2-Dichloropropane	40 ug/mL
							1,3,5-Trimethylbenzene	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							Benzene	40 ug/mL
							Bromodichloromethane	40 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							Isopropylbenzene	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_00098	1 mL	Carbon disulfide	40 ug/mL
							Cyclohexane	40 ug/mL
							Freon 113	40 ug/mL
							Methyl acetate	40 ug/mL
							Methyl tertiary butyl ether	40 ug/mL
							Methylcyclohexane	40 ug/mL
					MSV_Q_Ketones_00101	1 mL	2-Butanone	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone	500 ug/mL
							Acetone	500 ug/mL
.MSV_M_MIX1SEC_00101	04/30/25		Restek, Lot A0184354		(Purchased Reagent)		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
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2,4-Trimethylbenzene	1000 ug/mL
							1,2-Dibromo-3-Chloropropane	1000 ug/mL
							1,2-Dibromoethane	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
							1,4-Dichlorobenzene	1000 ug/mL
							Benzene	1000 ug/mL
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Isopropylbenzene	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_00098	04/30/25		Restek, Lot A0184412		(Purchased Reagent)		Carbon disulfide	1000 ug/mL
							Cyclohexane	1000 ug/mL
							Freon 113	1000 ug/mL
							Methyl acetate	1000 ug/mL
							Methyl tertiary butyl ether	1000 ug/mL
							Methylcyclohexane	1000 ug/mL
.MSV_Q_Ketones_00101	11/30/24		Restek, Lot A0178490		(Purchased Reagent)		2-Butanone	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone	12500 ug/mL
							Acetone	12500 ug/mL
MSV_V_BFB_00008							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							divinyl benzene	
							Tentatively Identified Compound	
							Total BTEX	
							Total Diethylbenzene	
							Xylenes, Total	
					MSV_VBFB_STK_00008	0.128 mL	BFB	49.8125 ug/mL
.MSV_VBFB_STK_00008	12/27/22	06/27/22	Methanol, Lot EB679	10 mL	MSV_4BFB_NEAT_00008	0.9729 g	BFB	97290 ug/mL
..MSV_4BFB_NEAT_00008	02/28/25		Chem Service, Lot 13233000		(Purchased Reagent)		BFB	1 g/g
MSV_V_SMFreon_00020	11/24/22		Restek, Lot A0172146		(Purchased Reagent)		2-Chloro-1,1,1-Trifluoroethane	2000 ug/mL
							Chlorodifluoromethane	2000 ug/mL
							Chlorotrifluoroethene	2000 ug/mL
MSV_V_VOA2_00163	11/22/22	10/23/22	Methanol, Lot EB679	5 mL	MSV_V#2B_00292	1 mL	Isopropyl alcohol	5000 ug/mL
							n-Butanol	25000 ug/mL
							Propionitrile	5000 ug/mL
.MSV_V#2B_00292	04/30/24		Restek, Lot A0184378		(Purchased Reagent)		Isopropyl alcohol	25000 ug/mL
							n-Butanol	125000 ug/mL
							Propionitrile	25000 ug/mL
OP_MINIBNA_SS_00075	04/02/23	11/21/22	Methanol, Lot 221032	1000 mL	OP_BNA_SS_00046	250 mL	1-Methylnaphthalene-d10 (Surr)	250 ppb
							2,4,6-Tribromophenol (Surr)	50000 ppb
							2-Fluorobiphenyl (Surr)	25000 ppb
							2-Fluorophenol (Surr)	50000 ppb
							Benzo(a)pyrene-d12 (Surr)	250 ppb
							Fluoranthene-d10 (Surr)	250 ppb

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Nitrobenzene-d5 (Surr)	25000 ppb
							p-Terphenyl-d14 (Surr)	25000 ppb
							Phenol-d5 (Surr)	50000 ppb
.OP_BNA_SS_00046	04/02/23	10/03/22	Methanol, Lot 221032	2000 mL	OP_BNA_STK_00045	2000 mL	1-Methylnaphthalene-d10 (Surr)	1000 ppb
							2,4,6-Tribromophenol (Surr)	200000 ppb
							2-Fluorobiphenyl (Surr)	100000 ppb
							2-Fluorophenol (Surr)	200000 ppb
							Benzo(a)pyrene-d12 (Surr)	1000 ppb
							Fluoranthene-d10 (Surr)	1000 ppb
							Nitrobenzene-d5 (Surr)	100000 ppb
							p-Terphenyl-d14 (Surr)	100000 ppb
							Phenol-d5 (Surr)	200000 ppb
..OP_BNA_STK_00045	04/02/23		Agilent, Lot 0006682928		(Purchased Reagent)		1-Methylnaphthalene-d10 (Surr)	1 ug/mL
							2,4,6-Tribromophenol (Surr)	200 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol (Surr)	200 ug/mL
							Benzo(a)pyrene-d12 (Surr)	1 ug/mL
							Fluoranthene-d10 (Surr)	1 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							p-Terphenyl-d14 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	200 ug/mL
OP_MINLCS1_MS_00141	12/17/22	11/19/22	ACETONE, Lot ED774-US	100 mL	OP_LCS1_MS_00049	25 mL	1,1'-Biphenyl	12500 ppb
							1,2,4,5-Tetrachlorobenzene	12500 ppb
							1,2,4-Trichlorobenzene	12500 ppb
							1,2-Dichlorobenzene	12500 ppb
							1,2-Diphenylhydrazine	12500 ppb
							1,3-Dichlorobenzene	12500 ppb
							1,3-Dinitrobenzene	12500 ppb
							1,4-Dichlorobenzene	12500 ppb
							1,4-Dioxane	12500 ppb
							1-Methylnaphthalene	12500 ppb
							2,2'-oxybis[1-chloropropane]	12500 ppb
							2,3,4,6-Tetrachlorophenol	12500 ppb
							2,4,5-Trichlorophenol	12500 ppb
							2,4,6-Trichlorophenol	12500 ppb
							2,4-Dichlorophenol	12500 ppb
							2,4-Dimethylphenol	12500 ppb
							2,4-Dinitrophenol	25000 ppb
							2,4-Dinitrotoluene	12500 ppb
							2,6-Dichlorophenol	12500 ppb
							2,6-Dinitrotoluene	12500 ppb
							2-Chloronaphthalene	12500 ppb
							2-Chlorophenol	12500 ppb
							2-Methylnaphthalene	12500 ppb
							2-Methylphenol	12500 ppb
							2-Nitroaniline	12500 ppb
							2-Nitrophenol	12500 ppb

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3-Nitroaniline	12500 ppb
							4,6-Dinitro-2-methylphenol	25000 ppb
							4-Bromophenyl phenyl ether	12500 ppb
							4-Chloro-3-methylphenol	12500 ppb
							4-Chloroaniline	12500 ppb
							4-Chlorophenyl phenyl ether	12500 ppb
							4-Methylphenol	12500 ppb
							4-Nitroaniline	12500 ppb
							4-Nitrophenol	25000 ppb
							Acenaphthene	12500 ppb
							Acenaphthylene	12500 ppb
							Acetophenone	12500 ppb
							Aniline	12500 ppb
							Anthracene	12500 ppb
							Benzo[a]anthracene	12500 ppb
							Benzo[a]pyrene	12500 ppb
							Benzo[b]fluoranthene	12500 ppb
							Benzo[g,h,i]perylene	12500 ppb
							Benzo[k]fluoranthene	12500 ppb
							Benzyl alcohol	12500 ppb
							Bis(2-chloroethoxy)methane	12500 ppb
							Bis(2-chloroethyl)ether	12500 ppb
							Bis(2-ethylhexyl) phthalate	12500 ppb
							Butylbenzylphthalate	12500 ppb
							Carbazole	12500 ppb
							Chrysene	12500 ppb
							Di-n-butyl phthalate	12500 ppb
							Di-n-octyl phthalate	12500 ppb
							Dibenz(a,h)anthracene	12500 ppb
							Dibenzofuran	12500 ppb
							Diethylphthalate	12500 ppb
							Dimethylphthalate	12500 ppb
							Fluoranthene	12500 ppb
							Fluorene	12500 ppb
							Hexachlorobenzene	12500 ppb
							Hexachlorobutadiene	12500 ppb
							Hexachlorocyclopentadiene	12500 ppb
							Hexachloroethane	12500 ppb
							Hexadecane	12500 ppb
							Indeno[1,2,3-cd]pyrene	12500 ppb
							Isophorone	12500 ppb
							n-Decane	12500 ppb
							N-Nitrosodi-n-propylamine	12500 ppb
							N-Nitrosodimethylamine	12500 ppb
							N-Nitrosodiphenylamine	10625 ppb
							n-Octadecane	12500 ppb
							Naphthalene	12500 ppb
							Nitrobenzene	12500 ppb

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pentachlorophenol	25000 ppb
							Phenanthrene	12500 ppb
							Phenol	12500 ppb
							Pyrene	12500 ppb
							Pyridine	25000 ppb
							3,3'-Dichlorobenzidine	25000 ppb
							Benzidine	25000 ppb
							Benzoic acid	12500 ppb
							Indene	12500 ppb
							1-Methylphenanthrene	12500 ppb
							2,3-Dichlorobenzenamine	12500 ppb
							Alpha Methyl Styrene	12500 ppb
							Alpha-Terpineol	12500 ppb
							Dimethylformamide	12500 ppb
							icosane	12500 ppb
							n-Docosane	12500 ppb
							n-Tetradecane	12500 ppb
							Octachlorostyrene	12500 ppb
							Phenyl ether	12500 ppb
.OP_LCS1_MS_00049	12/17/22	11/16/22	Acetone, Lot ED774-US	400 mL	OP_RES_LCS1_00008	20 mL	1,1'-Biphenyl	50000 ppb
							1,2,4,5-Tetrachlorobenzene	50000 ppb
							1,2,4-Trichlorobenzene	50000 ppb
							1,2-Dichlorobenzene	50000 ppb
							1,2-Diphenylhydrazine	50000 ppb
							1,3-Dichlorobenzene	50000 ppb
							1,3-Dinitrobenzene	50000 ppb
							1,4-Dichlorobenzene	50000 ppb
							1,4-Dioxane	50000 ppb
							1-Methylnaphthalene	50000 ppb
							2,2'-oxybis[1-chloropropane]	50000 ppb
							2,3,4,6-Tetrachlorophenol	50000 ppb
							2,4,5-Trichlorophenol	50000 ppb
							2,4,6-Trichlorophenol	50000 ppb
							2,4-Dichlorophenol	50000 ppb
							2,4-Dimethylphenol	50000 ppb
							2,4-Dinitrophenol	100000 ppb
							2,4-Dinitrotoluene	50000 ppb
							2,6-Dichlorophenol	50000 ppb
							2,6-Dinitrotoluene	50000 ppb
							2-Chloronaphthalene	50000 ppb
							2-Chlorophenol	50000 ppb
							2-Methylnaphthalene	50000 ppb
							2-Methylphenol	50000 ppb
							2-Nitroaniline	50000 ppb
							2-Nitrophenol	50000 ppb
							3-Nitroaniline	50000 ppb
							4,6-Dinitro-2-methylphenol	100000 ppb
							4-Bromophenyl phenyl ether	50000 ppb

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Chloro-3-methylphenol	50000 ppb
							4-Chloroaniline	50000 ppb
							4-Chlorophenyl phenyl ether	50000 ppb
							4-Methylphenol	50000 ppb
							4-Nitroaniline	50000 ppb
							4-Nitrophenol	100000 ppb
							Acenaphthene	50000 ppb
							Acenaphthylene	50000 ppb
							Acetophenone	50000 ppb
							Aniline	50000 ppb
							Anthracene	50000 ppb
							Benzo[a]anthracene	50000 ppb
							Benzo[a]pyrene	50000 ppb
							Benzo[b]fluoranthene	50000 ppb
							Benzo[g,h,i]perylene	50000 ppb
							Benzo[k]fluoranthene	50000 ppb
							Benzyl alcohol	50000 ppb
							Bis(2-chloroethoxy)methane	50000 ppb
							Bis(2-chloroethyl)ether	50000 ppb
							Bis(2-ethylhexyl) phthalate	50000 ppb
							Butylbenzylphthalate	50000 ppb
							Carbazole	50000 ppb
							Chrysene	50000 ppb
							Di-n-butyl phthalate	50000 ppb
							Di-n-octyl phthalate	50000 ppb
							Dibenz(a,h)anthracene	50000 ppb
							Dibenzofuran	50000 ppb
							Diethylphthalate	50000 ppb
							Dimethylphthalate	50000 ppb
							Fluoranthene	50000 ppb
							Fluorene	50000 ppb
							Hexachlorobenzene	50000 ppb
							Hexachlorobutadiene	50000 ppb
							Hexachlorocyclopentadiene	50000 ppb
							Hexachloroethane	50000 ppb
							Hexadecane	50000 ppb
							Indeno[1,2,3-cd]pyrene	50000 ppb
							Isophorone	50000 ppb
							n-Decane	50000 ppb
							N-Nitrosodi-n-propylamine	50000 ppb
							N-Nitrosodimethylamine	50000 ppb
							N-Nitrosodiphenylamine	42500 ppb
							n-Octadecane	50000 ppb
							Naphthalene	50000 ppb
							Nitrobenzene	50000 ppb
							Pentachlorophenol	100000 ppb
							Phenanthrene	50000 ppb
							Phenol	50000 ppb

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pyrene	50000 ppb
							Pyridine	100000 ppb
					OP_RES_LCS2_00008	20 mL	3,3'-Dichlorobenzidine	100000 ppb
							Benzidine	100000 ppb
					OP_RES_LCS3_00005	10 mL	Benzoic acid	50000 ppb
							Indene	50000 ppb
					OP_RES_LCSadd_00001	10 mL	1-Methylphenanthrene	50000 ppb
							2,3-Dichlorobenzenamine	50000 ppb
							Alpha Methyl Styrene	50000 ppb
							Alpha-Terpineol	50000 ppb
							Dimethylformamide	50000 ppb
							icosane	50000 ppb
							n-Docosane	50000 ppb
							n-Tetradecane	50000 ppb
							Octachlorostyrene	50000 ppb
							Phenyl ether	50000 ppb
..OP_RES_LCS1_00008	06/30/23		Restek, Lot A0179662		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butylbenzylphthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethylphthalate	1000 ug/mL
							Dimethylphthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	850 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
..OP_RES_LCS2_00008	07/31/23		Restek, Lot A0181121		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzidine	2000 ug/mL
..OP_RES_LCS3_00005	07/31/23		Restek, Lot A0180656		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..OP_RES_LCSadd_00001	12/31/23		Restek, Lot A0166837		(Purchased Reagent)		1-Methylphenanthrene	2000 ug/mL
							2,3-Dichlorobenzenamine	2000 ug/mL
							Alpha Methyl Styrene	2000 ug/mL
							Alpha-Terpineol	2000 ug/mL
							Dimethylformamide	2000 ug/mL
							icosane	2000 ug/mL
							n-Docosane	2000 ug/mL
							n-Tetradecane	2000 ug/mL
							Octachlorostyrene	2000 ug/mL
							Phenyl ether	2000 ug/mL
OP_MINLCS2_MS_00080	11/29/22	11/11/22	ACETONE, Lot ED774-US	100 mL	OP_LCS 2_MS_00038	25 mL	Atrazine	12500 ppb
							Benzaldehyde	12500 ppb
							Caprolactam	12500 ppb
.OP_LCS 2_MS_00038	11/29/22	10/28/22	ACETONE, Lot ED774-US	400 mL	OP_LCSmix2stk_00004	10 mL	Atrazine	50000 ppb
							Benzaldehyde	50000 ppb
							Caprolactam	50000 ppb
..OP_LCSmix2stk_00004	11/30/22		Restek, Lot A0172244		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
OP_SIMLCS_MS_00080	12/17/22	11/16/22	ACETONE, Lot ED774-US	100 mL	OP_B(E)P_STK_00010	0.1 mL	Benzo[e]pyrene	1078 ppb
					OP_LCS1_MS_00049	2 mL	1,1'-Biphenyl	1000 ppb
							1,2,4,5-Tetrachlorobenzene	1000 ppb
							1,2,4-Trichlorobenzene	1000 ppb
							1,2-Dichlorobenzene	1000 ppb
							1,2-Diphenylhydrazine	1000 ppb
							1,3-Dichlorobenzene	1000 ppb
							1,3-Dinitrobenzene	1000 ppb
							1,4-Dichlorobenzene	1000 ppb
							1,4-Dioxane	1000 ppb
							1-Methylnaphthalene	1000 ppb
							2,2'-oxybis[1-chloropropane]	1000 ppb
							2,3,4,6-Tetrachlorophenol	1000 ppb
							2,4,5-Trichlorophenol	1000 ppb
							2,4,6-Trichlorophenol	1000 ppb
							2,4-Dichlorophenol	1000 ppb
							2,4-Dimethylphenol	1000 ppb
							2,4-Dinitrophenol	2000 ppb
							2,4-Dinitrotoluene	1000 ppb
							2,6-Dichlorophenol	1000 ppb
							2,6-Dinitrotoluene	1000 ppb
							2-Chloronaphthalene	1000 ppb
							2-Chlorophenol	1000 ppb
							2-Methylnaphthalene	1000 ppb
							2-Methylphenol	1000 ppb

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Nitroaniline	1000 ppb
							2-Nitrophenol	1000 ppb
							3-Nitroaniline	1000 ppb
							4,6-Dinitro-2-methylphenol	2000 ppb
							4-Bromophenyl phenyl ether	1000 ppb
							4-Chloro-3-methylphenol	1000 ppb
							4-Chloroaniline	1000 ppb
							4-Chlorophenyl phenyl ether	1000 ppb
							4-Methylphenol	1000 ppb
							4-Nitroaniline	1000 ppb
							4-Nitrophenol	2000 ppb
							Acenaphthene	1000 ppb
							Acenaphthylene	1000 ppb
							Acetophenone	1000 ppb
							Aniline	1000 ppb
							Anthracene	1000 ppb
							Benzo[a]anthracene	1000 ppb
							Benzo[a]pyrene	1000 ppb
							Benzo[b]fluoranthene	1000 ppb
							Benzo[g,h,i]perylene	1000 ppb
							Benzo[k]fluoranthene	1000 ppb
							Benzyl alcohol	1000 ppb
							Bis(2-chloroethoxy)methane	1000 ppb
							Bis(2-chloroethyl)ether	1000 ppb
							Bis(2-ethylhexyl) phthalate	1000 ppb
							Butylbenzylphthalate	1000 ppb
							Carbazole	1000 ppb
							Chrysene	1000 ppb
							Di-n-butyl phthalate	1000 ppb
							Di-n-octyl phthalate	1000 ppb
							Dibenz(a,h)anthracene	1000 ppb
							Dibenzofuran	1000 ppb
							Diethylphthalate	1000 ppb
							Dimethylphthalate	1000 ppb
							Fluoranthene	1000 ppb
							Fluorene	1000 ppb
							Hexachlorobenzene	1000 ppb
							Hexachlorobutadiene	1000 ppb
							Hexachlorocyclopentadiene	1000 ppb
							Hexachloroethane	1000 ppb
							Hexadecane	1000 ppb
							Indeno[1,2,3-cd]pyrene	1000 ppb
							Isophorone	1000 ppb
							n-Decane	1000 ppb
							N-Nitrosodi-n-propylamine	1000 ppb
							N-Nitrosodimethylamine	1000 ppb
							N-Nitrosodiphenylamine	850 ppb
							n-Octadecane	1000 ppb

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Naphthalene	1000 ppb
							Nitrobenzene	1000 ppb
							Pentachlorophenol	2000 ppb
							Phenanthrene	1000 ppb
							Phenol	1000 ppb
							Pyrene	1000 ppb
							Pyridine	2000 ppb
							3,3'-Dichlorobenzidine	2000 ppb
							Benzidine	2000 ppb
							Benzoic acid	1000 ppb
							Indene	1000 ppb
							1-Methylphenanthrene	1000 ppb
							2,3-Dichlorobenzenamine	1000 ppb
							Alpha Methyl Styrene	1000 ppb
							Alpha-Terpineol	1000 ppb
							Dimethylformamide	1000 ppb
							icosane	1000 ppb
							n-Docosane	1000 ppb
							n-Tetradecane	1000 ppb
							Octachlorostyrene	1000 ppb
							Phenyl ether	1000 ppb
					OP_PERYL_STK_00002	0.05 mL	Perylene	1000.15 ppb
.OP_B(E)P_STK_00010	06/15/23	06/22/22	MeCl2, Lot 221499	10 mL	OP_BEP_NEAT_00004	0.011 g	Benzo[e]pyrene	1078000 ppb
..OP_BEP_NEAT_00004	06/22/27		ALDRICH, Lot MKCP5010		(Purchased Reagent)		Benzo[e]pyrene	98 %
.OP_LCS1_MS_00049	12/17/22	11/16/22	Acetone, Lot ED774-US	400 mL	OP_RES_LCS1_00008	20 mL	1,1'-Biphenyl	50000 ppb
							1,2,4,5-Tetrachlorobenzene	50000 ppb
							1,2,4-Trichlorobenzene	50000 ppb
							1,2-Dichlorobenzene	50000 ppb
							1,2-Diphenylhydrazine	50000 ppb
							1,3-Dichlorobenzene	50000 ppb
							1,3-Dinitrobenzene	50000 ppb
							1,4-Dichlorobenzene	50000 ppb
							1,4-Dioxane	50000 ppb
							1-Methylnaphthalene	50000 ppb
							2,2'-oxybis[1-chloropropane]	50000 ppb
							2,3,4,6-Tetrachlorophenol	50000 ppb
							2,4,5-Trichlorophenol	50000 ppb
							2,4,6-Trichlorophenol	50000 ppb
							2,4-Dichlorophenol	50000 ppb
							2,4-Dimethylphenol	50000 ppb
							2,4-Dinitrophenol	100000 ppb
							2,4-Dinitrotoluene	50000 ppb
							2,6-Dichlorophenol	50000 ppb
							2,6-Dinitrotoluene	50000 ppb
							2-Chloronaphthalene	50000 ppb
							2-Chlorophenol	50000 ppb
							2-Methylnaphthalene	50000 ppb
							2-Methylphenol	50000 ppb

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Nitroaniline	50000 ppb
							2-Nitrophenol	50000 ppb
							3-Nitroaniline	50000 ppb
							4,6-Dinitro-2-methylphenol	100000 ppb
							4-Bromophenyl phenyl ether	50000 ppb
							4-Chloro-3-methylphenol	50000 ppb
							4-Chloroaniline	50000 ppb
							4-Chlorophenyl phenyl ether	50000 ppb
							4-Methylphenol	50000 ppb
							4-Nitroaniline	50000 ppb
							4-Nitrophenol	100000 ppb
							Acenaphthene	50000 ppb
							Acenaphthylene	50000 ppb
							Acetophenone	50000 ppb
							Aniline	50000 ppb
							Anthracene	50000 ppb
							Benzo[a]anthracene	50000 ppb
							Benzo[a]pyrene	50000 ppb
							Benzo[b]fluoranthene	50000 ppb
							Benzo[g,h,i]perylene	50000 ppb
							Benzo[k]fluoranthene	50000 ppb
							Benzyl alcohol	50000 ppb
							Bis(2-chloroethoxy)methane	50000 ppb
							Bis(2-chloroethyl)ether	50000 ppb
							Bis(2-ethylhexyl) phthalate	50000 ppb
							Butylbenzylphthalate	50000 ppb
							Carbazole	50000 ppb
							Chrysene	50000 ppb
							Di-n-butyl phthalate	50000 ppb
							Di-n-octyl phthalate	50000 ppb
							Dibenz(a,h)anthracene	50000 ppb
							Dibenzofuran	50000 ppb
							Diethylphthalate	50000 ppb
							Dimethylphthalate	50000 ppb
							Fluoranthene	50000 ppb
							Fluorene	50000 ppb
							Hexachlorobenzene	50000 ppb
							Hexachlorobutadiene	50000 ppb
							Hexachlorocyclopentadiene	50000 ppb
							Hexachloroethane	50000 ppb
							Hexadecane	50000 ppb
							Indeno[1,2,3-cd]pyrene	50000 ppb
							Isophorone	50000 ppb
							n-Decane	50000 ppb
							N-Nitrosodi-n-propylamine	50000 ppb
							N-Nitrosodimethylamine	50000 ppb
							N-Nitrosodiphenylamine	42500 ppb
							n-Octadecane	50000 ppb

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Naphthalene	50000 ppb
							Nitrobenzene	50000 ppb
							Pentachlorophenol	100000 ppb
							Phenanthrene	50000 ppb
							Phenol	50000 ppb
							Pyrene	50000 ppb
							Pyridine	100000 ppb
					OP_RES_LCS2_00008	20 mL	3,3'-Dichlorobenzidine	100000 ppb
							Benzidine	100000 ppb
					OP_RES_LCS3_00005	10 mL	Benzoic acid	50000 ppb
							Indene	50000 ppb
					OP_RES_LCSadd_00001	10 mL	1-Methylphenanthrene	50000 ppb
							2,3-Dichlorobenzenamine	50000 ppb
							Alpha Methyl Styrene	50000 ppb
							Alpha-Terpineol	50000 ppb
							Dimethylformamide	50000 ppb
							icosane	50000 ppb
							n-Docosane	50000 ppb
							n-Tetradecane	50000 ppb
							Octachlorostyrene	50000 ppb
							Phenyl ether	50000 ppb
..OP_RES_LCS1_00008	06/30/23		Restek, Lot A0179662		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butylbenzylphthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethylphthalate	1000 ug/mL
							Dimethylphthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	850 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
..OP_RES_LCS2_00008	07/31/23		Restek, Lot A0181121		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..OP_RES_LCS3_00005	07/31/23		Restek, Lot A0180656		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..OP_RES_LCSadd_00001	12/31/23		Restek, Lot A0166837		(Purchased Reagent)		1-Methylphenanthrene	2000 ug/mL
							2,3-Dichlorobenzenamine	2000 ug/mL
							Alpha Methyl Styrene	2000 ug/mL
							Alpha-Terpineol	2000 ug/mL
							Dimethylformamide	2000 ug/mL
							icosane	2000 ug/mL
							n-Docosane	2000 ug/mL
							n-Tetradecane	2000 ug/mL
							Octachlorostyrene	2000 ug/mL
							Phenyl ether	2000 ug/mL
.OP_PERYL_STK_00002	07/18/23		ABSOLUTE, Lot 071818		(Purchased Reagent)		Perylene	2000.3 ug/mL
SIMLCS_MS_icv_00001	10/20/22	10/05/22	ACETONE, Lot ED774-US	100 mL	OP_LCS1_MS_00047	2 mL	1,4-Dioxane	1000 ppb
							1-Methylnaphthalene	1000 ppb
							2-Methylnaphthalene	1000 ppb
							Acenaphthene	1000 ppb
							Acenaphthylene	1000 ppb
							Anthracene	1000 ppb
							Benzo[a]anthracene	1000 ppb
							Benzo[a]pyrene	1000 ppb
							Benzo[b]fluoranthene	1000 ppb
							Benzo[g,h,i]perylene	1000 ppb
							Benzo[k]fluoranthene	1000 ppb
							Bis(2-chloroethyl)ether	1000 ppb
							Bis(2-ethylhexyl) phthalate	1000 ppb
							Butylbenzylphthalate	1000 ppb
							Chrysene	1000 ppb
							Di-n-butyl phthalate	1000 ppb
							Di-n-octyl phthalate	1000 ppb
							Dibenz(a,h)anthracene	1000 ppb
							Dibenzofuran	1000 ppb
							Diethylphthalate	1000 ppb
							Dimethylphthalate	1000 ppb
							Fluoranthene	1000 ppb
							Fluorene	1000 ppb
							Hexachlorobenzene	1000 ppb
							Indeno[1,2,3-cd]pyrene	1000 ppb
							N-Nitrosodimethylamine	1000 ppb
							Naphthalene	1000 ppb
							Phenanthrene	1000 ppb

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pyrene	1000 ppb
.OP_LCS1_MS_00047	10/20/22	09/19/22	Acetone, Lot ED774-US	400 mL	OP_RES_LCS1_00008	20 mL	1,4-Dioxane	50000 ppb
							1-Methylnaphthalene	50000 ppb
							2-Methylnaphthalene	50000 ppb
							Acenaphthene	50000 ppb
							Acenaphthylene	50000 ppb
							Anthracene	50000 ppb
							Benzo[a]anthracene	50000 ppb
							Benzo[a]pyrene	50000 ppb
							Benzo[b]fluoranthene	50000 ppb
							Benzo[g,h,i]perylene	50000 ppb
							Benzo[k]fluoranthene	50000 ppb
							Bis(2-chloroethyl)ether	50000 ppb
							Bis(2-ethylhexyl) phthalate	50000 ppb
							Butylbenzylphthalate	50000 ppb
							Chrysene	50000 ppb
							Di-n-butyl phthalate	50000 ppb
							Di-n-octyl phthalate	50000 ppb
							Dibenz(a,h)anthracene	50000 ppb
							Dibenzofuran	50000 ppb
							Diethylphthalate	50000 ppb
							Dimethylphthalate	50000 ppb
							Fluoranthene	50000 ppb
							Fluorene	50000 ppb
							Hexachlorobenzene	50000 ppb
							Indeno[1,2,3-cd]pyrene	50000 ppb
							N-Nitrosodimethylamine	50000 ppb
							Naphthalene	50000 ppb
							Phenanthrene	50000 ppb
							Pyrene	50000 ppb
..OP_RES_LCS1_00008	06/30/23		Restek, Lot A0179662		(Purchased Reagent)		1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butylbenzylphthalate	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibenzofuran	1000 ug/mL
							Diethylphthalate	1000 ug/mL
							Dimethylphthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							Naphthalene	1000 ug/mL
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL

Reagent

MS_RES_ICV1_00002

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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. : 571995.SEC **Lot No.:** A0169665

Description : 8270 List 1 / Std #1 MegaMix (2017)

8270 List 1 / Std #1 MegaMix (2017) 500-2000 µg/mL, Methylene chloride, 5mL/ampul

Container Size : 10 mL **Pkg Amt:** > 5 mL

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

Handling: Carcinogen/reproductive toxin. Photosensitive. Sonicate. **Ship:** Ambient

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

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,4-Dioxane	1,000.8 µg/mL	+/- 5.8322 µg/mL	Gravimetric
	CAS # 123-91-1.SEC (Lot KLE2K)		+/- 11.9702 µg/mL	Unstressed
	Purity 99%		+/- 19.0440 µg/mL	Stressed
2	N-Nitrosodimethylamine	1,003.6 µg/mL	+/- 5.8485 µg/mL	Gravimetric
	CAS # 62-75-9.SEC (Lot 71L89)		+/- 12.0037 µg/mL	Unstressed
	Purity 99%		+/- 19.0973 µg/mL	Stressed
3	Pyridine	2,001.0 µg/mL	+/- 11.6340 µg/mL	Gravimetric
	CAS # 110-86-1.SEC (Lot QN8DK)		+/- 23.9201 µg/mL	Unstressed
	Purity 99%		+/- 38.0684 µg/mL	Stressed
4	Phenol	1,003.0 µg/mL	+/- 5.8450 µg/mL	Gravimetric
	CAS # 108-95-2.SEC (Lot EDPYN)		+/- 11.9965 µg/mL	Unstressed
	Purity 99%		+/- 19.0859 µg/mL	Stressed
5	Aniline	1,005.2 µg/mL	+/- 5.8578 µg/mL	Gravimetric
	CAS # 62-53-3.SEC (Lot ZCD3N)		+/- 12.0228 µg/mL	Unstressed
	Purity 99%		+/- 19.1278 µg/mL	Stressed
6	Bis(2-chloroethyl)ether	1,005.4 µg/mL	+/- 5.8590 µg/mL	Gravimetric
	CAS # 111-44-4.SEC (Lot FA010143)		+/- 12.0252 µg/mL	Unstressed
	Purity 99%		+/- 19.1316 µg/mL	Stressed
7	n-Decane (C10)	1,004.2 µg/mL	+/- 5.8520 µg/mL	Gravimetric
	CAS # 124-18-5.SEC (Lot UCVNN)		+/- 12.0108 µg/mL	Unstressed
	Purity 99%		+/- 19.1087 µg/mL	Stressed

8	2-Chlorophenol		1,000.2	µg/mL	+/-	5.8287	µg/mL	Gravimetric
	CAS # 95-57-8.SEC	(Lot GJ01)			+/-	11.9630	µg/mL	Unstressed
	Purity 99%				+/-	19.0326	µg/mL	Stressed
9	1,3-Dichlorobenzene		1,003.0	µg/mL	+/-	5.8450	µg/mL	Gravimetric
	CAS # 541-73-1.SEC	(Lot ZA2ZI)			+/-	11.9965	µg/mL	Unstressed
	Purity 99%				+/-	19.0859	µg/mL	Stressed
10	1,4-Dichlorobenzene		1,001.4	µg/mL	+/-	5.8357	µg/mL	Gravimetric
	CAS # 106-46-7.SEC	(Lot J5GVD)			+/-	11.9773	µg/mL	Unstressed
	Purity 99%				+/-	19.0555	µg/mL	Stressed
11	Benzyl alcohol		1,001.6	µg/mL	+/-	5.8368	µg/mL	Gravimetric
	CAS # 100-51-6.SEC	(Lot QZBUO)			+/-	11.9797	µg/mL	Unstressed
	Purity 99%				+/-	19.0593	µg/mL	Stressed
12	1,2-Dichlorobenzene		1,001.6	µg/mL	+/-	5.8368	µg/mL	Gravimetric
	CAS # 95-50-1.SEC	(Lot R6QDM)			+/-	11.9797	µg/mL	Unstressed
	Purity 99%				+/-	19.0593	µg/mL	Stressed
13	2-Methylphenol (o-cresol)		1,006.6	µg/mL	+/-	5.8660	µg/mL	Gravimetric
	CAS # 95-48-7.SEC	(Lot NC7HL)			+/-	12.0395	µg/mL	Unstressed
	Purity 99%				+/-	19.1544	µg/mL	Stressed
14	2,2'-oxybis(1-chloropropane)		1,003.6	µg/mL	+/-	5.8485	µg/mL	Gravimetric
	CAS # 108-60-1.SEC	(Lot 2-KMW-57-8)			+/-	12.0037	µg/mL	Unstressed
	Purity 99%				+/-	19.0973	µg/mL	Stressed
15	Acetophenone		1,000.4	µg/mL	+/-	5.8299	µg/mL	Gravimetric
	CAS # 98-86-2.SEC	(Lot NSGTI)			+/-	11.9654	µg/mL	Unstressed
	Purity 99%				+/-	19.0364	µg/mL	Stressed
16	3-Methylphenol (m-cresol)		500.4	µg/mL	+/-	2.9161	µg/mL	Gravimetric
	CAS # 108-39-4.SEC	(Lot 6LHTM)			+/-	5.9851	µg/mL	Unstressed
	Purity 99%				+/-	9.5220	µg/mL	Stressed
17	4-Methylphenol (p-cresol)		502.2	µg/mL	+/-	2.9266	µg/mL	Gravimetric
	CAS # 106-44-5.SEC	(Lot 65S2E)			+/-	6.0066	µg/mL	Unstressed
	Purity 99%				+/-	9.5563	µg/mL	Stressed
18	N-Nitroso-di-n-propylamine		1,002.0	µg/mL	+/-	5.8392	µg/mL	Gravimetric
	CAS # 621-64-7.SEC	(Lot 9566100)			+/-	11.9845	µg/mL	Unstressed
	Purity 99%				+/-	19.0669	µg/mL	Stressed
19	Hexachloroethane		1,005.2	µg/mL	+/-	5.8578	µg/mL	Gravimetric
	CAS # 67-72-1.SEC	(Lot 10173016)			+/-	12.0228	µg/mL	Unstressed
	Purity 99%				+/-	19.1278	µg/mL	Stressed
20	Nitrobenzene		1,000.0	µg/mL	+/-	5.8275	µg/mL	Gravimetric
	CAS # 98-95-3.SEC	(Lot FLYIG)			+/-	11.9606	µg/mL	Unstressed
	Purity 99%				+/-	19.0288	µg/mL	Stressed
21	Isophorone		999.6	µg/mL	+/-	5.8252	µg/mL	Gravimetric
	CAS # 78-59-1.SEC	(Lot XHGJI)			+/-	11.9558	µg/mL	Unstressed
	Purity 98%				+/-	19.0212	µg/mL	Stressed
22	2-Nitrophenol		1,003.2	µg/mL	+/-	5.8462	µg/mL	Gravimetric
	CAS # 88-75-5.SEC	(Lot GXJ7J)			+/-	11.9989	µg/mL	Unstressed
	Purity 99%				+/-	19.0897	µg/mL	Stressed
23	2,4-Dimethylphenol		1,000.6	µg/mL	+/-	5.8310	µg/mL	Gravimetric
	CAS # 105-67-9.SEC	(Lot MKBL3650V)			+/-	11.9678	µg/mL	Unstressed
	Purity 99%				+/-	19.0402	µg/mL	Stressed

24	Bis(2-chloroethoxy)methane		1,000.8	µg/mL	+/-	5.8322	µg/mL	Gravimetric
	CAS # 111-91-1 *	(Lot 9890600)			+/-	11.9702	µg/mL	Unstressed
	Purity 99%				+/-	19.0440	µg/mL	Stressed
25	2,4-Dichlorophenol		1,002.2	µg/mL	+/-	5.8403	µg/mL	Gravimetric
	CAS # 120-83-2.SEC	(Lot FHM01)			+/-	11.9869	µg/mL	Unstressed
	Purity 99%				+/-	19.0707	µg/mL	Stressed
26	1,2,4-Trichlorobenzene		1,001.6	µg/mL	+/-	5.8368	µg/mL	Gravimetric
	CAS # 120-82-1.SEC	(Lot IGLFA)			+/-	11.9797	µg/mL	Unstressed
	Purity 99%				+/-	19.0593	µg/mL	Stressed
27	Naphthalene		1,000.0	µg/mL	+/-	5.8275	µg/mL	Gravimetric
	CAS # 91-20-3.SEC	(Lot AM5NG)			+/-	11.9606	µg/mL	Unstressed
	Purity 99%				+/-	19.0288	µg/mL	Stressed
28	2,6-Dichlorophenol		1,000.6	µg/mL	+/-	5.8310	µg/mL	Gravimetric
	CAS # 87-65-0.SEC	(Lot SIDBB)			+/-	11.9678	µg/mL	Unstressed
	Purity 99%				+/-	19.0402	µg/mL	Stressed
29	4-Chloroaniline		1,003.4	µg/mL	+/-	5.8473	µg/mL	Gravimetric
	CAS # 106-47-8.SEC	(Lot 10171860)			+/-	12.0013	µg/mL	Unstressed
	Purity 99%				+/-	19.0935	µg/mL	Stressed
30	Hexachlorobutadiene		999.9	µg/mL	+/-	5.8268	µg/mL	Gravimetric
	CAS # 87-68-3.SEC	(Lot 11135200)			+/-	11.9591	µg/mL	Unstressed
	Purity 97%				+/-	19.0265	µg/mL	Stressed
31	4-Chloro-3-methylphenol		1,001.0	µg/mL	+/-	5.8333	µg/mL	Gravimetric
	CAS # 59-50-7.SEC	(Lot FDO02)			+/-	11.9726	µg/mL	Unstressed
	Purity 99%				+/-	19.0478	µg/mL	Stressed
32	2-Methylnaphthalene		1,000.4	µg/mL	+/-	5.8299	µg/mL	Gravimetric
	CAS # 91-57-6.SEC	(Lot 76023-1)			+/-	11.9654	µg/mL	Unstressed
	Purity 99%				+/-	19.0364	µg/mL	Stressed
33	1-Methylnaphthalene		999.8	µg/mL	+/-	5.8263	µg/mL	Gravimetric
	CAS # 90-12-0.SEC	(Lot OEE3F)			+/-	11.9582	µg/mL	Unstressed
	Purity 98%				+/-	19.0249	µg/mL	Stressed
34	1,2,4,5-Tetrachlorobenzene		1,004.8	µg/mL	+/-	5.8555	µg/mL	Gravimetric
	CAS # 95-94-3.SEC	(Lot AF02)			+/-	12.0180	µg/mL	Unstressed
	Purity 99%				+/-	19.1202	µg/mL	Stressed
35	Hexachlorocyclopentadiene		1,000.0	µg/mL	+/-	5.8275	µg/mL	Gravimetric
	CAS # 77-47-4.SEC	(Lot 9707900)			+/-	11.9606	µg/mL	Unstressed
	Purity 99%				+/-	19.0288	µg/mL	Stressed
36	2,4,6-Trichlorophenol		1,002.6	µg/mL	+/-	5.8427	µg/mL	Gravimetric
	CAS # 88-06-2.SEC	(Lot UUMYM)			+/-	11.9917	µg/mL	Unstressed
	Purity 99%				+/-	19.0783	µg/mL	Stressed
37	2,4,5-Trichlorophenol		1,005.3	µg/mL	+/-	5.8585	µg/mL	Gravimetric
	CAS # 95-95-4.SEC	(Lot MKBQ9937V)			+/-	12.0241	µg/mL	Unstressed
	Purity 97%				+/-	19.1298	µg/mL	Stressed
38	2-Chloronaphthalene		1,005.0	µg/mL	+/-	5.8567	µg/mL	Gravimetric
	CAS # 91-58-7.SEC	(Lot 9711100)			+/-	12.0204	µg/mL	Unstressed
	Purity 99%				+/-	19.1240	µg/mL	Stressed
39	Biphenyl		1,000.2	µg/mL	+/-	5.8287	µg/mL	Gravimetric
	CAS # 92-52-4.SEC	(Lot 33OQE)			+/-	11.9630	µg/mL	Unstressed
	Purity 99%				+/-	19.0326	µg/mL	Stressed

40	2-Nitroaniline		1,001.4	µg/mL	+/-	5.8357	µg/mL	Gravimetric
	CAS # 88-74-4.SEC	(Lot T6E7B)			+/-	11.9773	µg/mL	Unstressed
	Purity 99%				+/-	19.0555	µg/mL	Stressed
41	Acenaphthylene		1,000.7	µg/mL	+/-	5.8316	µg/mL	Gravimetric
	CAS # 208-96-8.SEC	(Lot 0012014)			+/-	11.9690	µg/mL	Unstressed
	Purity 96%				+/-	19.0422	µg/mL	Stressed
42	1,3-Dinitrobenzene		1,004.0	µg/mL	+/-	5.8508	µg/mL	Gravimetric
	CAS # 99-65-0.SEC	(Lot 3XXLB)			+/-	12.0084	µg/mL	Unstressed
	Purity 99%				+/-	19.1049	µg/mL	Stressed
43	Dimethylphthalate		1,001.8	µg/mL	+/-	5.8380	µg/mL	Gravimetric
	CAS # 131-11-3.SEC	(Lot 483WC)			+/-	11.9821	µg/mL	Unstressed
	Purity 99%				+/-	19.0631	µg/mL	Stressed
44	2,6-Dinitrotoluene		1,005.2	µg/mL	+/-	5.8578	µg/mL	Gravimetric
	CAS # 606-20-2.SEC	(Lot GE01)			+/-	12.0228	µg/mL	Unstressed
	Purity 99%				+/-	19.1278	µg/mL	Stressed
45	3-Nitroaniline		1,002.4	µg/mL	+/-	5.8415	µg/mL	Gravimetric
	CAS # 99-09-2.SEC	(Lot FGN03)			+/-	11.9893	µg/mL	Unstressed
	Purity 99%				+/-	19.0745	µg/mL	Stressed
46	Acenaphthene		1,003.6	µg/mL	+/-	5.8485	µg/mL	Gravimetric
	CAS # 83-32-9.SEC	(Lot BWZJE)			+/-	12.0037	µg/mL	Unstressed
	Purity 99%				+/-	19.0973	µg/mL	Stressed
47	2,4-Dinitrophenol		2,005.3	µg/mL	+/-	11.6588	µg/mL	Gravimetric
	CAS # 51-28-5.SEC	(Lot YTR6B)			+/-	23.9712	µg/mL	Unstressed
	Purity 98%				+/-	38.1498	µg/mL	Stressed
48	Dibenzofuran		1,000.8	µg/mL	+/-	5.8322	µg/mL	Gravimetric
	CAS # 132-64-9.SEC	(Lot 27ZGC)			+/-	11.9702	µg/mL	Unstressed
	Purity 99%				+/-	19.0440	µg/mL	Stressed
49	4-Nitrophenol		2,005.6	µg/mL	+/-	11.6607	µg/mL	Gravimetric
	CAS # 100-02-7.SEC	(Lot H75QG)			+/-	23.9751	µg/mL	Unstressed
	Purity 99%				+/-	38.1560	µg/mL	Stressed
50	2,4-Dinitrotoluene		1,000.8	µg/mL	+/-	5.8322	µg/mL	Gravimetric
	CAS # 121-14-2.SEC	(Lot SHRSA)			+/-	11.9702	µg/mL	Unstressed
	Purity 99%				+/-	19.0440	µg/mL	Stressed
51	2,3,4,6-Tetrachlorophenol		1,001.4	µg/mL	+/-	5.8357	µg/mL	Gravimetric
	CAS # 58-90-2.SEC	(Lot LRAC4175)			+/-	11.9773	µg/mL	Unstressed
	Purity 99%				+/-	19.0555	µg/mL	Stressed
52	Fluorene		1,002.0	µg/mL	+/-	5.8392	µg/mL	Gravimetric
	CAS # 86-73-7.SEC	(Lot 10342200)			+/-	11.9845	µg/mL	Unstressed
	Purity 99%				+/-	19.0669	µg/mL	Stressed
53	n-Hexadecane (C16)		1,001.6	µg/mL	+/-	5.8368	µg/mL	Gravimetric
	CAS # 544-76-3.SEC	(Lot A0328141)			+/-	11.9797	µg/mL	Unstressed
	Purity 99%				+/-	19.0593	µg/mL	Stressed
54	Diethylphthalate		1,001.8	µg/mL	+/-	5.8380	µg/mL	Gravimetric
	CAS # 84-66-2.SEC	(Lot UMBJC)			+/-	11.9821	µg/mL	Unstressed
	Purity 99%				+/-	19.0631	µg/mL	Stressed
55	4-Chlorophenyl phenyl ether		1,000.4	µg/mL	+/-	5.8298	µg/mL	Gravimetric
	CAS # 7005-72-3.SEC	(Lot P31G)			+/-	11.9652	µg/mL	Unstressed
	Purity 98%				+/-	19.0361	µg/mL	Stressed

56	4-Nitroaniline		1,002.0	µg/mL	+/-	5.8392	µg/mL	Gravimetric
	CAS # 100-01-6.SEC	(Lot 5ITRC)			+/-	11.9845	µg/mL	Unstressed
	Purity 99%				+/-	19.0669	µg/mL	Stressed
57	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)		2,009.4	µg/mL	+/-	11.6828	µg/mL	Gravimetric
	CAS # 534-52-1.SEC	(Lot DR11288300)			+/-	24.0205	µg/mL	Unstressed
	Purity 99%				+/-	38.2283	µg/mL	Stressed
58	Diphenylamine		851.0	µg/mL	+/-	4.9592	µg/mL	Gravimetric
	CAS # 122-39-4.SEC	(Lot 10164691)			+/-	10.1785	µg/mL	Unstressed
	Purity 99%				+/-	16.1935	µg/mL	Stressed
59	Azobenzene		1,000.4	µg/mL	+/-	5.8299	µg/mL	Gravimetric
	CAS # 103-33-3.SEC	(Lot JUWAG)			+/-	11.9654	µg/mL	Unstressed
	Purity 99%				+/-	19.0364	µg/mL	Stressed
60	4-Bromophenyl phenyl ether		1,001.4	µg/mL	+/-	5.8357	µg/mL	Gravimetric
	CAS # 101-55-3.SEC	(Lot 84C6D)			+/-	11.9773	µg/mL	Unstressed
	Purity 99%				+/-	19.0555	µg/mL	Stressed
61	Hexachlorobenzene		1,001.0	µg/mL	+/-	5.8333	µg/mL	Gravimetric
	CAS # 118-74-1.SEC	(Lot G137934)			+/-	11.9726	µg/mL	Unstressed
	Purity 99%				+/-	19.0478	µg/mL	Stressed
62	Pentachlorophenol		2,002.0	µg/mL	+/-	11.6398	µg/mL	Gravimetric
	CAS # 87-86-5.SEC	(Lot 8636800)			+/-	23.9320	µg/mL	Unstressed
	Purity 99%				+/-	38.0875	µg/mL	Stressed
63	n-Octadecane (C18)		1,004.8	µg/mL	+/-	5.8555	µg/mL	Gravimetric
	CAS # 593-45-3.SEC	(Lot G14U045)			+/-	12.0180	µg/mL	Unstressed
	Purity 99%				+/-	19.1202	µg/mL	Stressed
64	Phenanthrene		1,004.3	µg/mL	+/-	5.8526	µg/mL	Gravimetric
	CAS # 85-01-8.SEC	(Lot 8637000)			+/-	12.0121	µg/mL	Unstressed
	Purity 98%				+/-	19.1107	µg/mL	Stressed
65	Anthracene		1,003.0	µg/mL	+/-	5.8450	µg/mL	Gravimetric
	CAS # 120-12-7.SEC	(Lot WDFNJ)			+/-	11.9965	µg/mL	Unstressed
	Purity 99%				+/-	19.0859	µg/mL	Stressed
66	Carbazole		1,004.8	µg/mL	+/-	5.8555	µg/mL	Gravimetric
	CAS # 86-74-8.SEC	(Lot 7MR7O)			+/-	12.0180	µg/mL	Unstressed
	Purity 99%				+/-	19.1202	µg/mL	Stressed
67	Di-n-butylphthalate		1,001.4	µg/mL	+/-	5.8357	µg/mL	Gravimetric
	CAS # 84-74-2.SEC	(Lot 42FSG)			+/-	11.9773	µg/mL	Unstressed
	Purity 99%				+/-	19.0555	µg/mL	Stressed
68	Fluoranthene		1,003.2	µg/mL	+/-	5.8462	µg/mL	Gravimetric
	CAS # 206-44-0.SEC	(Lot FREGF)			+/-	11.9989	µg/mL	Unstressed
	Purity 99%				+/-	19.0897	µg/mL	Stressed
69	Pyrene		1,004.2	µg/mL	+/-	5.8520	µg/mL	Gravimetric
	CAS # 129-00-0.SEC	(Lot ROVJC)			+/-	12.0108	µg/mL	Unstressed
	Purity 99%				+/-	19.1087	µg/mL	Stressed
70	Benzyl butyl phthalate		1,006.9	µg/mL	+/-	5.8675	µg/mL	Gravimetric
	CAS # 85-68-7.SEC	(Lot GX3GL)			+/-	12.0426	µg/mL	Unstressed
	Purity 98%				+/-	19.1592	µg/mL	Stressed
71	Benz(a)anthracene		1,002.3	µg/mL	+/-	5.8412	µg/mL	Gravimetric
	CAS # 56-55-3.SEC	(Lot MTENF)			+/-	11.9886	µg/mL	Unstressed
	Purity 98%				+/-	19.0734	µg/mL	Stressed

72	chrysene		1,004.0	µg/mL	+/-	5.8508	µg/mL	Gravimetric
	CAS # 218-01-9.SEC	(Lot NICZC)			+/-	12.0084	µg/mL	Unstressed
	Purity 99%				+/-	19.1049	µg/mL	Stressed
73	Bis(2-ethylhexyl)phthalate		1,001.8	µg/mL	+/-	5.8380	µg/mL	Gravimetric
	CAS # 117-81-7.SEC	(Lot MT8AG)			+/-	11.9821	µg/mL	Unstressed
	Purity 99%				+/-	19.0631	µg/mL	Stressed
74	Di-n-octyl phthalate		1,003.4	µg/mL	+/-	5.8473	µg/mL	Gravimetric
	CAS # 117-84-0.SEC	(Lot O8DLD)			+/-	12.0013	µg/mL	Unstressed
	Purity 99%				+/-	19.0935	µg/mL	Stressed
75	Benzo(b)fluoranthene		1,003.6	µg/mL	+/-	5.8485	µg/mL	Gravimetric
	CAS # 205-99-2.SEC	(Lot I4OWH)			+/-	12.0037	µg/mL	Unstressed
	Purity 99%				+/-	19.0973	µg/mL	Stressed
76	Benzo(k)fluoranthene		1,004.0	µg/mL	+/-	5.8508	µg/mL	Gravimetric
	CAS # 207-08-9.SEC	(Lot 11288200)			+/-	12.0084	µg/mL	Unstressed
	Purity 99%				+/-	19.1049	µg/mL	Stressed
77	Benzo(a)pyrene		1,004.6	µg/mL	+/-	5.8543	µg/mL	Gravimetric
	CAS # 50-32-8.SEC	(Lot SLCD4874)			+/-	12.0156	µg/mL	Unstressed
	Purity 99%				+/-	19.1164	µg/mL	Stressed
78	Indeno(1,2,3-cd)pyrene		1,000.6	µg/mL	+/-	5.8310	µg/mL	Gravimetric
	CAS # 193-39-5.SEC	(Lot 022015)			+/-	11.9678	µg/mL	Unstressed
	Purity 99%				+/-	19.0402	µg/mL	Stressed
79	Dibenz(a,h)anthracene		1,000.4	µg/mL	+/-	5.8299	µg/mL	Gravimetric
	CAS # 53-70-3.SEC	(Lot 0012011)			+/-	11.9654	µg/mL	Unstressed
	Purity 99%				+/-	19.0364	µg/mL	Stressed
80	Benzo(g,h,i)perylene		1,005.3	µg/mL	+/-	5.8585	µg/mL	Gravimetric
	CAS # 191-24-2.SEC	(Lot 0022012)			+/-	12.0241	µg/mL	Unstressed
	Purity 96%				+/-	19.1299	µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
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.**

Specific Reference Material Notes:

N-nitrosodiphenylamine 1000 ug/mL equivalent when used for GC analysis. Actual formulation is diphenylamine 855 ug/mL.
N-Nitrosodiphenylamine is prone to breakdown in the injection port and will be converted to diphenylamine.
N-Nitrosodiphenylamine is also a reactive species that can initiate premature decomposition of other compounds in the mix. For these reasons diphenylamine is used in the preparation of this mixture. When comparing the response of this compound to mixtures manufactured using N-nitrosodiphenylamine, a difference in response will be observed.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

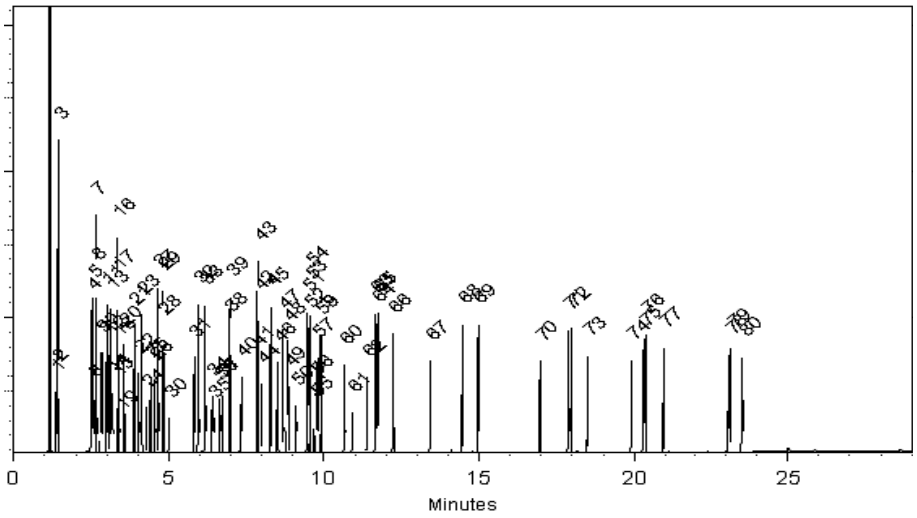
Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

Inj. Temp:
250°C

Det. Temp:
340°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.

Matt Fragassi - Mix Technician

Date Mixed: 02-Mar-2021 **Balance:** 1128342314

Marlina Cowan - Operations Tech I

Date Passed: 11-Mar-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MS_RES_ICV1_00005

CERTIFIED REFERENCE MATERIAL

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

Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 5719995.SEC **Lot No.:** A0180323

Description : 8270 List 1 / Std #1 MegaMix (2017)
8270 List 1 / Std #1 MegaMix (2017) 500-2000 µg/mL, Methylene chloride, 5mL/ampul

Container Size : 10 mL **Pkg Amt:** > 5 mL

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

Handling: Carcinogen/reproductive toxin. Photosensitive. Sonicate. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Gravimetric Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)		
1	1,4-Dioxane	1,005.5	µg/mL	+/- 5.8596	µg/mL	Gravimetric
	CAS # 123-91-1.SEC	(Lot KLE2K)		+/- 12.0264	µg/mL	Unstressed
	Purity 99%			+/- 19.1335	µg/mL	Stressed
2	N-Nitrosodimethylamine	1,008.0	µg/mL	+/- 5.8741	µg/mL	Gravimetric
	CAS # 62-75-9.SEC	(Lot 71L89)		+/- 12.0563	µg/mL	Unstressed
	Purity 99%			+/- 19.1811	µg/mL	Stressed
3	Pyridine	2,001.5	µg/mL	+/- 11.6638	µg/mL	Gravimetric
	CAS # 110-86-1.SEC	(Lot QN8DK)		+/- 23.9391	µg/mL	Unstressed
	Purity 99%			+/- 38.0862	µg/mL	Stressed
4	Phenol	1,002.8	µg/mL	+/- 5.8435	µg/mL	Gravimetric
	CAS # 108-95-2.SEC	(Lot EDPYN)		+/- 11.9935	µg/mL	Unstressed
	Purity 99%			+/- 19.0811	µg/mL	Stressed
5	Aniline	1,005.8	µg/mL	+/- 5.8610	µg/mL	Gravimetric
	CAS # 62-53-3.SEC	(Lot ZCD3N)		+/- 12.0294	µg/mL	Unstressed
	Purity 99%			+/- 19.1382	µg/mL	Stressed
6	Bis(2-chloroethyl)ether	1,005.8	µg/mL	+/- 5.8610	µg/mL	Gravimetric
	CAS # 111-44-4.SEC	(Lot FA01043)		+/- 12.0294	µg/mL	Unstressed
	Purity 99%			+/- 19.1382	µg/mL	Stressed
7	n-Decane (C10)	1,004.3	µg/mL	+/- 5.8523	µg/mL	Gravimetric
	CAS # 124-18-5.SEC	(Lot UCVNN)		+/- 12.0114	µg/mL	Unstressed
	Purity 99%			+/- 19.1097	µg/mL	Stressed

Reagent

MSS_8270_SURR_00004

Certificate of Analysis

EPA 8270 Surrogate Standard

Certified Reference Material

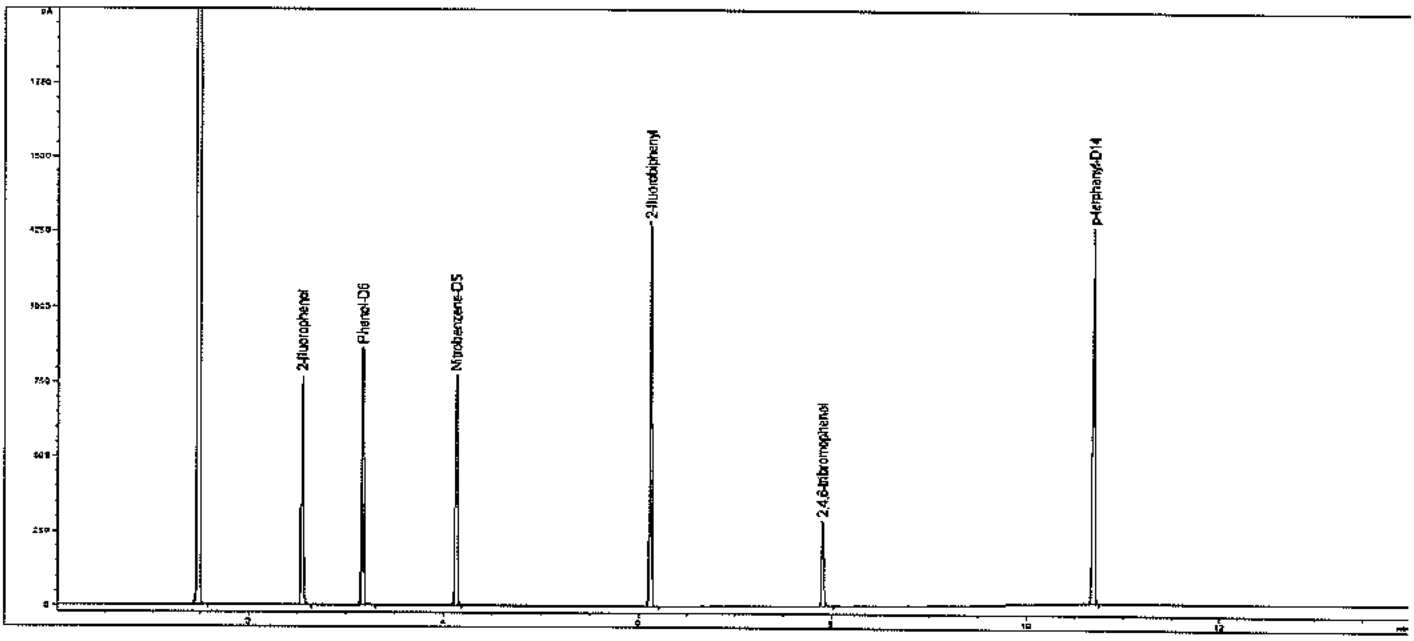
Description

Product ID CRM47960
Lot LRAC8467
Expiration Date October 2023
Manufacturing Date October 2020
Storage Conditions Refrigerate
Solvent/Matrix DICHLOROMETHANE

Certified Values

Analyte	*Certified Value* [1,4]	*Units*	*Raw Material Purity,%*	*Elution order*	*Raw Material Lot*	*CAS*
2-FLUOROPHENOL	4003 ± 110	µg/mL	99.9	01	LB92543	367-12-4
PHENOL-D6	4002 ± 75	µg/mL	99.5	02	MBBC6771	13127-88-3
NITROBENZENE-D5	4001 ± 50	µg/mL	99.9	03	LB83753	4165-60-0
2-FLUOROBIPHENYL	4001 ± 79	µg/mL	99.9	04	MKCK0527	321-60-8
2,4,6-TRIBROMOPHENOL	4004 ± 92	µg/mL	99.7	05	LB81262	118-79-6
P-TERPHENYL-D14	4047 ± 131	µg/mL	99.5	06	PR-27278/121 715	1718-51-0

Informational Values



Additional Information:

Analytical Method Parameters:
Column: SPB-5, 30 m × 0.53 mm I.D., 1.5 µm film thickness (Column #214)
Carrier Gas: H2, Flow: 4.5 mL/min
Inlet Temperature: 270 °C, Injection Volume: 1.0 µL
Injection Mode: Split, Split Ratio: 40: 1
Temperature Program: 100 °C (Hold 1 min) @ 20 °C/min to 280 °C (Hold 4 min)

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER

SIGMA-ALDRICH®
2931 Soldier Springs Rd. Laramie, Wyoming 82070 USA
800-325-5832
TechService@milliporesigma.com www.sigma-aldrich.com

Reagent

MSS_AB_14DIOX_00007

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 70373
Lot Number: 121619
Description: 1,4-Dioxane

Expiration Date: 121624
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 6UTB

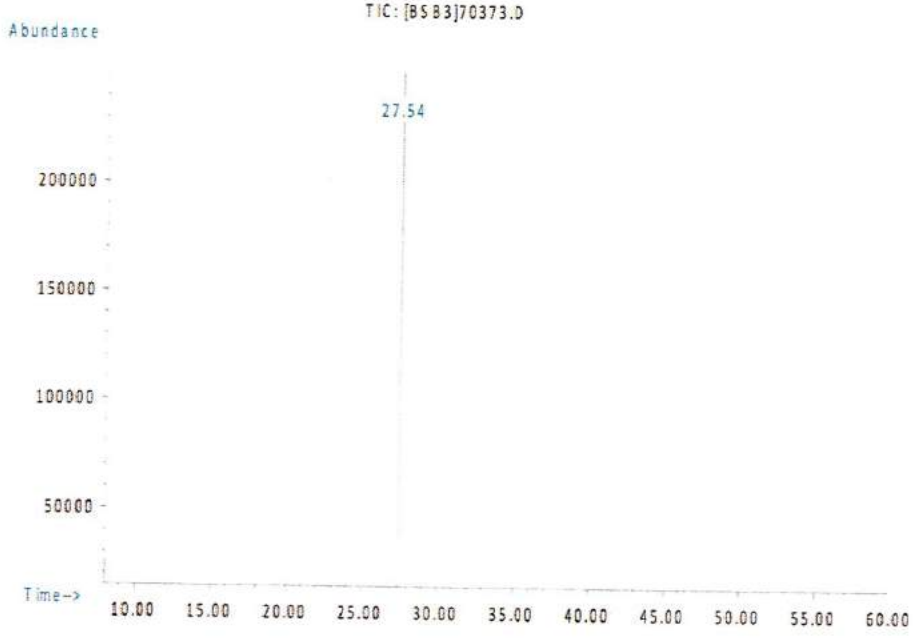
Solvent:	Lot#
Methanol	DV182-US

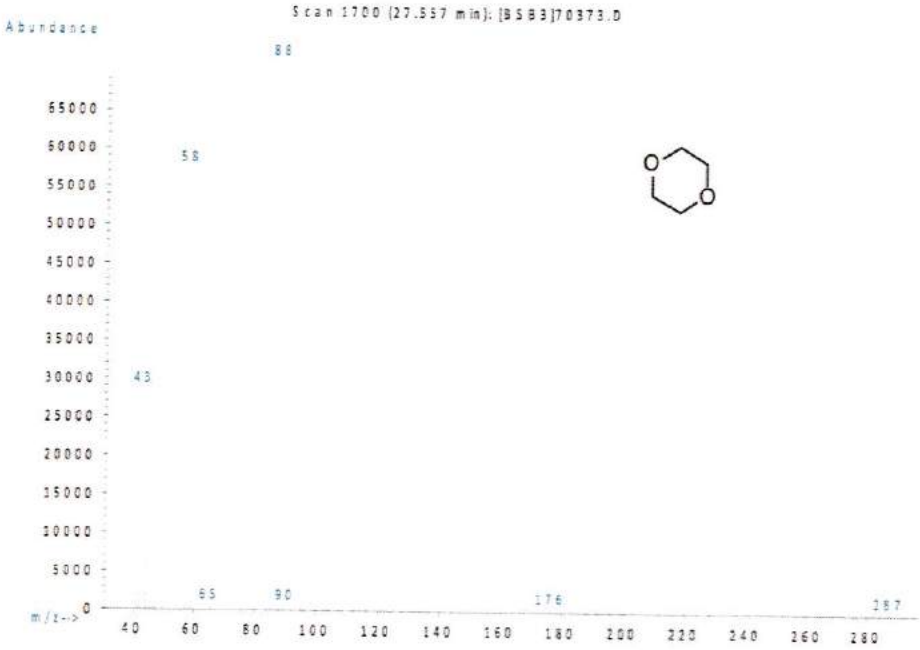
Weight(s) shown below were combined and diluted to (mL): 200.0 | 5E-05 Balance Uncertainty | 0.058 Flask Uncertainty

Formulated By: Eli Aliaga	121619 DATE
Reviewed By: Pedro L. Rentas	121619 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity (%)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 1,4-Dioxane	373	03853KE	1000	99	0.2	0.20201	0.20220	1000.9	4.1	123-91-1	25 ppm (90mg/m3/8H)(skin)	orl-mus 5700mg/kg

Method GC6MSD-1: Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Temp. 1 = 35°C (10min.), Temp. 2 = 200°C (8.75 min.), Rate = 4°C/min., Injector Temp.= 200°C, Detector Temp. = 220°C. Analysis performed by Candice Warren.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Reagent

MSS_AB_B2CEE_00003

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Analytical Reference Material ARM

ISO 9001 QS Registered
ISO 17025-34-35-43 Accredited
Scopes: http://AbsoluteStandards.com

CERTIFIED WEIGHT REPORT

Part Number: 70075
Lot Number: 032318
Description: bis(2-Chloroethyl) ether

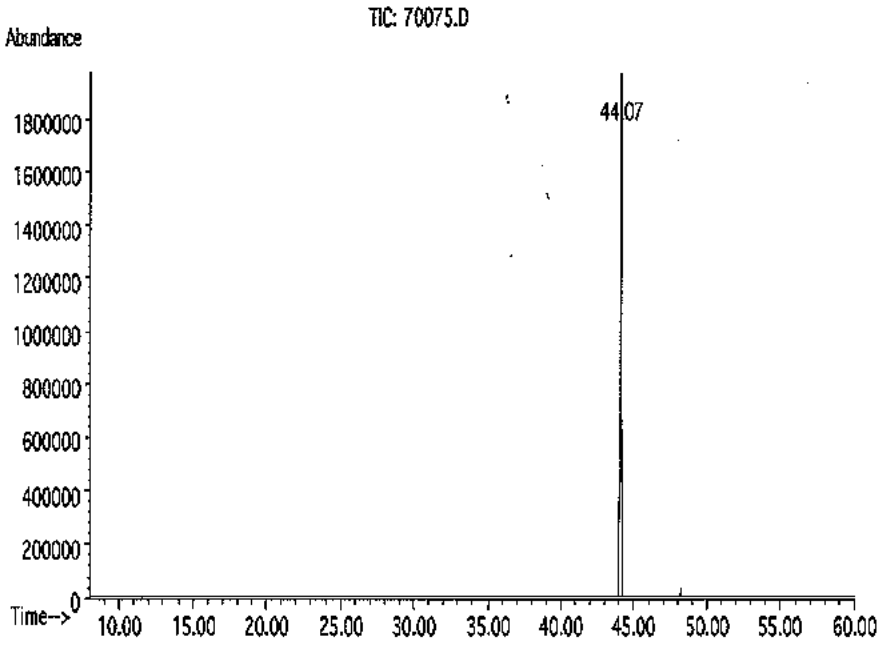
Solvent(s): **Lot#**
Methanol DS435

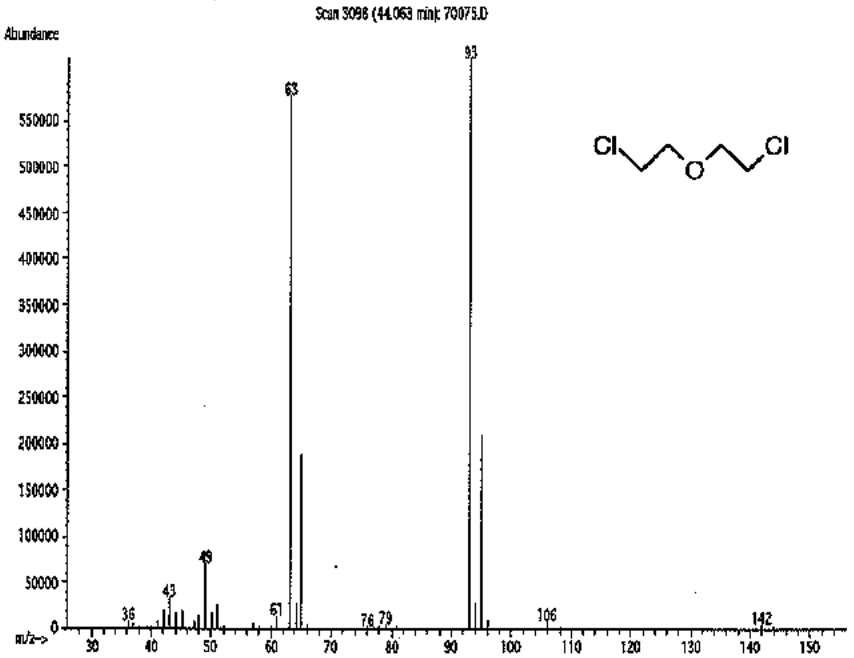
Expiration Date: 032323
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 2506734D 5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.007 Flask Uncertainty

Formulated By:	Mario Luis	032318 DATE
Reviewed By:	Pedro L. Rentas	032318 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. bis(2-Chloroethyl) ether	75	98224AW	1000	99	0.2	0.05050	0.05063	1002.5	4.5	111-44-4	15 ppm (90mg/m3/8H)(skin)	orl-rat 75mg/kg

Method: GC6MSD1. **Detector:** MSD (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1=35°C (10 min.), Temp. 2=200°C (8.75 min.), Rate=4°C/min., Injector Temp.=200°C, Detector Temp.=200°C. **Analyst:** Candice Warren.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Reagent

MSS_AB_BZIDIN_00011

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 43124
Lot Number: 102722
Description: Benzidine

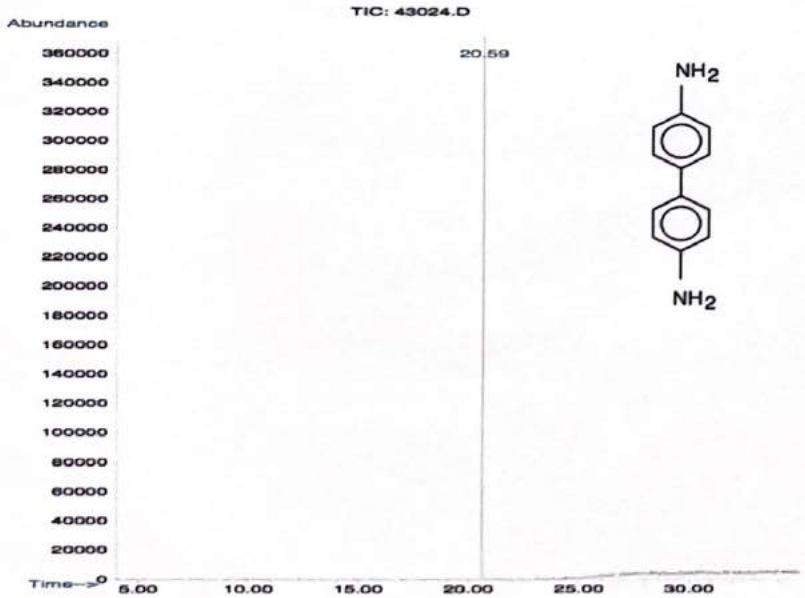
Solvent: Methylene chloride Lot# C21F09CAS0000DCM

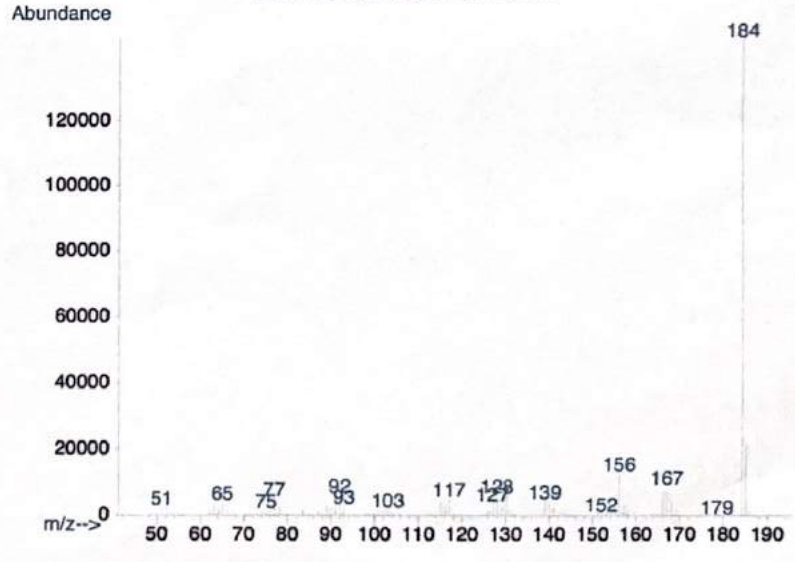
Expiration Date: 102725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB 5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 30.0 0.0003 Flask Uncertainty

Formulated By:	Prashant Chauhan	102722 DATE
Reviewed By:	Pedro L. Rentas	102722 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity (%)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) µg/mL	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Benzidine	27	SLBH5327V	5000	98	0.2	0.15314	0.15324	5003.1	20.7	92-87-5	N/A	orl-rat 309mg/kg

Method GC8MSD-3.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B= 200°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by Nicole Davis.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Reagent

MSS_AB_DFTPP_00015

CERTIFIED WEIGHT REPORT

Part Number: 43030
Lot Number: 052421
Description: CLP Semi-Volatile Tuning Standard
4 components
Expiration Date: 052424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 500
NIST Test ID#: 6UTB

Solvent(s): Methylene chloride **Lot#** 105345

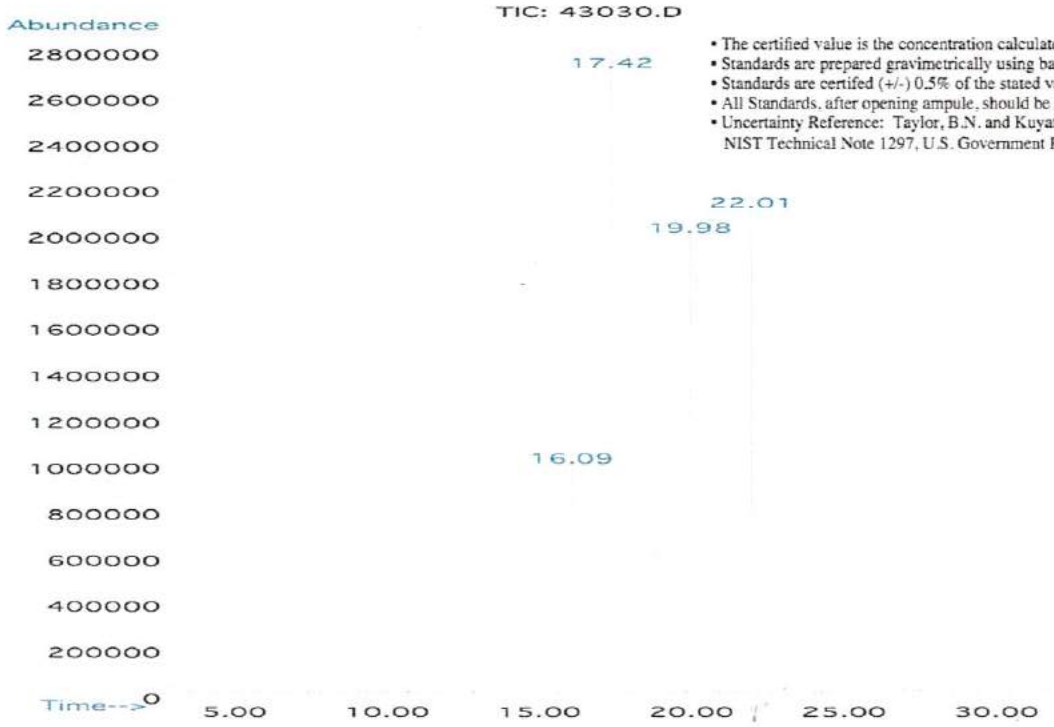
Formulated By:	Prashant Chauhan	052421 DATE
Reviewed By:	Pedro L. Rentas	052421 DATE

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 200.0 0.058 Flask Uncertainty

CAUTION: Sonicate Before Use

	Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	Benzidine	27	SLBH5327V	500	98	0.2	0.10205	0.10225	501.0	2.1	92-87-5	N/A	orl-rat 309mg/kg
2.	4,4'-DDT	101	04029MM	500	99	0.2	0.10102	0.10120	500.9	2.1	50-29-3	N/A	orl-rat 87mg/kg
3.	Decafluorotriphenylphosphine	105	10220909	500	97	0.2	0.10311	0.10324	500.7	2.1	5074-71-5	N/A	N/A
4.	Pentachlorophenol	243	06324ED	500	98	0.2	0.10205	0.10221	500.8	2.1	87-86-5	0.5mg/m3/8H (skin)	orl-rat 27mg/kg

Method GC8MSD-3.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B= 200°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Gina McLane.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Retention Time (min.)

Pentachlorophenol	16.09
Decafluorotriphenylphosphine	17.42
Benzidine	19.98
4,4'-DDT	22.01

Reagent

MSS_AB_HCB_00009

12/06/2022

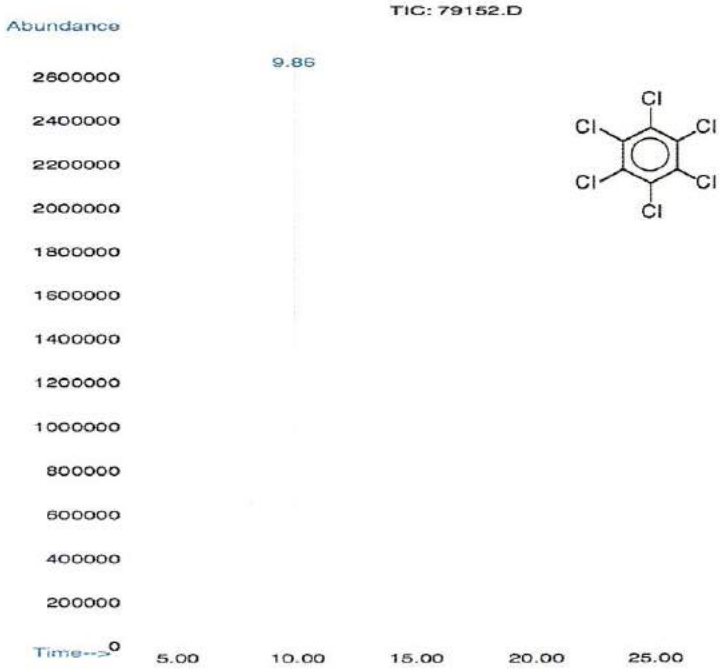
CERTIFIED WEIGHT REPORT

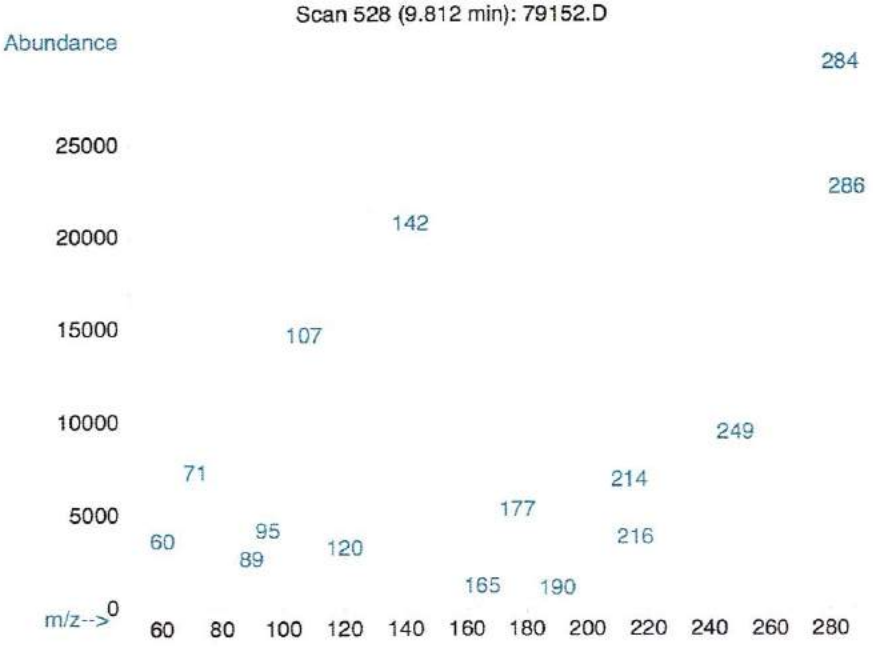
Part Number:	**79152**	**Solvent(s):**	**Lot#**
Lot Number:	062321	Methylene chloride	105345
Description:	Hexachlorobenzene		
Expiration Date:	062326		
Recommended Storage:	Refrigerate (4 °C)		
Nominal Concentration (µg/mL):	1000		
NIST Test ID#:	6UTB	5E-05	Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL):	30.0	0.0003	Flask Uncertainty

	062321	
Formulated By:	Prashant Chauhan	DATE
	062321	
Reviewed By:	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Hexachlorobenzene	195	051697	1000	99	0.2	0.03032	0.03045	1004.3	5.2	118-74-1	N/A	orl-rat 10g/kg

Method GC7MSD-1.M: Column: SPB-608 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 150°C (4min.), Temp 2 = 290°C (13.5 min.), Rate = 8°C/min., Injector B= 200°C, Detector B = 290°C. Split Ratio = 100:1, Scan Rate = 2. Analysis performed by Nicole Davis.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Reagent

MSS_AB_NITROS_00006

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www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 19222
Lot Number: 042320
Description: EPA Method 8070 - Nitrosamines
3 components
Expiration Date: 042323
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 6UTB

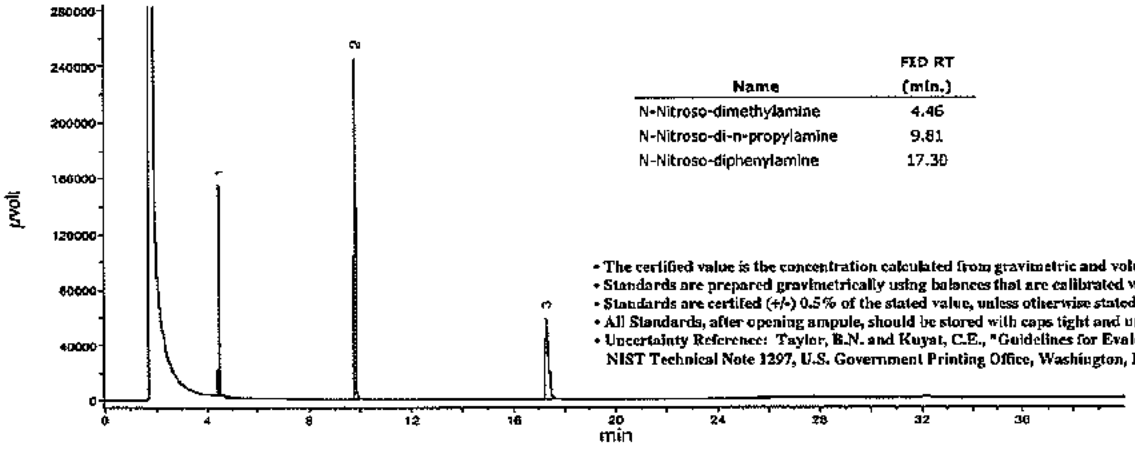
Solvent(s): **Lot#**
Methanol DX932-US

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 25.0 0.002 Flask Uncertainty

Formulated By:	Mario Luis	042320 DATE
Reviewed By:	Pedro L. Rentas	042320 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. N-Nitrosodimethylamine	233	101317	2000	98.5	0.2	0.05077	0.05080	2001.2	9.0	62-75-9	N/A	orl-rat 58mg/kg
2. N-Nitrosodi-n-propylamine	232	OPAGF	2000	98	0.2	0.05103	0.05110	2002.8	9.1	621-64-7	N/A	orl-rat 480mg/kg
3. N-Nitrosodiphenylamine	234	FGE01	2000	98	0.2	0.05103	0.05120	2006.7	9.1	86-30-6	N/A	orl-rat 2140mg/kg

Comments
GC4-M2 Analysis by Candice Warren
Column ID SPB-5 30 meter x 0.53mm x 0.5um Film Thickness.
Flow rates; Total Flow = 300 ml/min, Helium (carrier) = 6.5 mL, Helium (make-up) = 25 mL.
Hydrogen (detector) = 30 mL, Air (detector) =360 mLOven Temp 1 = 50°C (1 min).
Rate = 10°C/min, Oven Temp 2 = 300°C (14 min), Total Run Time = 40 Minutes. Injector Temp = 250°C.
FID Temp = 300°C, FID Signal = eDaq Channel 1.
Gas Chromatograph = HP 5890, Auto Sampler = HP 7673, Standard Injection = 0.5 uL, Range = 4



Name	FID RT (min.)
N-Nitroso-dimethylamine	4.46
N-Nitroso-di-n-propylamine	9.81
N-Nitroso-diphenylamine	17.30

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- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Reagent

MSS_AB_PAHSTD_00009

CERTIFIED WEIGHT REPORT

Part Number: 93462
Lot Number: 060518
Description: PAH Standard
30 components
Expiration Date: 060523
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 2684186

Solvent(s):	Lot#
Methylene chloride	76782

5E-05 Balance Uncertainty

Volume(s) shown below were combined and diluted to (mL): 20.0 0.002 Flask Uncertainty

Formulated By:	Mario Luis	060518 DATE
Reviewed By:	Pedro L. Rentas	060518 DATE

	Compound	Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Uncertainty Pipette	Initial Conc.(ug/mL)	Final Conc.(ug/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	Acenaphthene	10007	060118	0.50	10.00	0.006	2000.1	1000.8	4.2	83-32-9	N/A	ipr-rat 600mg/kg
2.	Acenaphthylene	10007	060118	0.50	10.00	0.006	2000.2	1000.8	4.2	208-96-8	N/A	N/A
3.	Anthracene	10007	060118	0.50	10.00	0.006	2000.3	1000.9	4.2	120-12-7	0.2mg/m3 (8H)	ipr-mus 430mg/kg
4.	Benzo(a)anthracene	10007	060118	0.50	10.00	0.006	2000.9	1001.2	4.2	56-55-3	N/A	N/A
5.	Benzo(a)pyrene	10007	060118	0.50	10.00	0.006	2000.3	1000.9	4.2	50-32-8	0.2mg/m3 (8H)	scu-rat 50mg/kg
6.	Benzo(b)fluoranthene	10007	060118	0.50	10.00	0.006	2000.7	1001.1	4.2	205-99-2	N/A	N/A
7.	Benzo(k)fluoranthene	10007	060118	0.50	10.00	0.006	2000.6	1001.0	4.2	207-08-9	N/A	N/A
8.	Benzo(g,h,i)perylene	10007	060118	0.50	10.00	0.006	2000.4	1000.9	4.2	191-24-2	N/A	N/A
9.	Carbazole	10007	060118	0.50	10.00	0.006	2000.7	1001.1	4.3	86-74-8	N/A	ipr-mus 200mg/kg
10.	Chrysene	10007	060118	0.50	10.00	0.006	2000.4	1001.0	4.3	218-01-9	0.2mg/m3	N/A
11.	Dibenzo(a,h)anthracene	10007	060118	0.50	10.00	0.006	2000.5	1001.0	4.2	53-70-3	0.2mg/m3	N/A
12.	Fluoranthene	10007	060118	0.50	10.00	0.006	2000.5	1001.0	4.3	206-44-0	N/A	orl-rat 2000mg/kg
13.	Fluorene	10007	060118	0.50	10.00	0.006	2000.4	1001.0	4.3	86-73-7	N/A	ipr-mus 2 g/kg
14.	Indeno(1,2,3-cd)pyrene	10007	060118	0.50	10.00	0.006	2000.3	1000.9	4.2	193-39-5	N/A	N/A
15.	Naphthalene	10007	060118	0.50	10.00	0.006	2000.8	1001.2	4.2	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
16.	Phenanthrene	10007	060118	0.50	10.00	0.006	2000.8	1001.2	4.2	85-01-8	0.2mg/m3/8H	orl-mus 700mg/kg
17.	Pyrene	10007	060118	0.50	10.00	0.006	2000.0	1000.8	4.3	129-00-0	0.2mg/m3/8H	orl-rat 2700mg/kg
18.	Benzo(e)pyrene	94851	031416	0.50	10.00	0.006	2001.9	1001.7	4.3	192-97-2	N/A	N/A
19.	Biphenyl	94851	031416	0.50	10.00	0.006	2000.7	1001.1	4.3	92-52-4	0.2 ppm(1mg/m3/8H)	orl-rat 2400mg/kg
20.	Decalin (49% cis, 51% trans)	94851	031416	0.50	10.00	0.006	2002.1	1001.8	4.4	91-17-8	N/A	N/A
21.	Dibenzofuran	94851	031416	0.50	10.00	0.006	2001.3	1001.4	4.4	132-64-9	N/A	N/A
22.	Dibenzothiophene	94851	031416	0.50	10.00	0.006	2001.3	1001.4	4.4	132-65-0	N/A	orl-mus 470 mg/kg
23.	2,6-Dimethylnaphthalene	94851	031416	0.50	10.00	0.006	2004.9	1003.2	4.4	581-42-0	N/A	N/A
24.	1-Methylnaphthalene	94851	031416	0.50	10.00	0.006	2003.5	1002.5	4.4	90-12-0	N/A	orl-rat 1840mg/kg
25.	2-Methylnaphthalene	94851	031416	0.50	10.00	0.006	2006.1	1003.8	4.4	91-57-6	N/A	orl-rat 1630mg/kg
26.	1-Methylphenanthrene	94851	031416	0.50	10.00	0.006	2004.4	1002.9	10.2	832-69-9	N/A	N/A
27.	Pentachlorophenol	94851	031416	0.50	10.00	0.006	2006.6	1004.0	4.4	87-86-5	0.5mg/m3/8H (skin)	orl-rat 27mg/kg
28.	Perylene	94851	031416	0.50	10.00	0.006	2002.1	1001.8	4.4	198-55-0	N/A	N/A
29.	Thianaphthene	94851	031416	0.50	10.00	0.006	2003.9	1002.7	4.4	95-15-8	N/A	N/A
30.	2,3,5-Trimethylnaphthalene	94851	031416	0.50	10.00	0.006	2002.9	1002.2	4.5	2245-38-7	N/A	N/A

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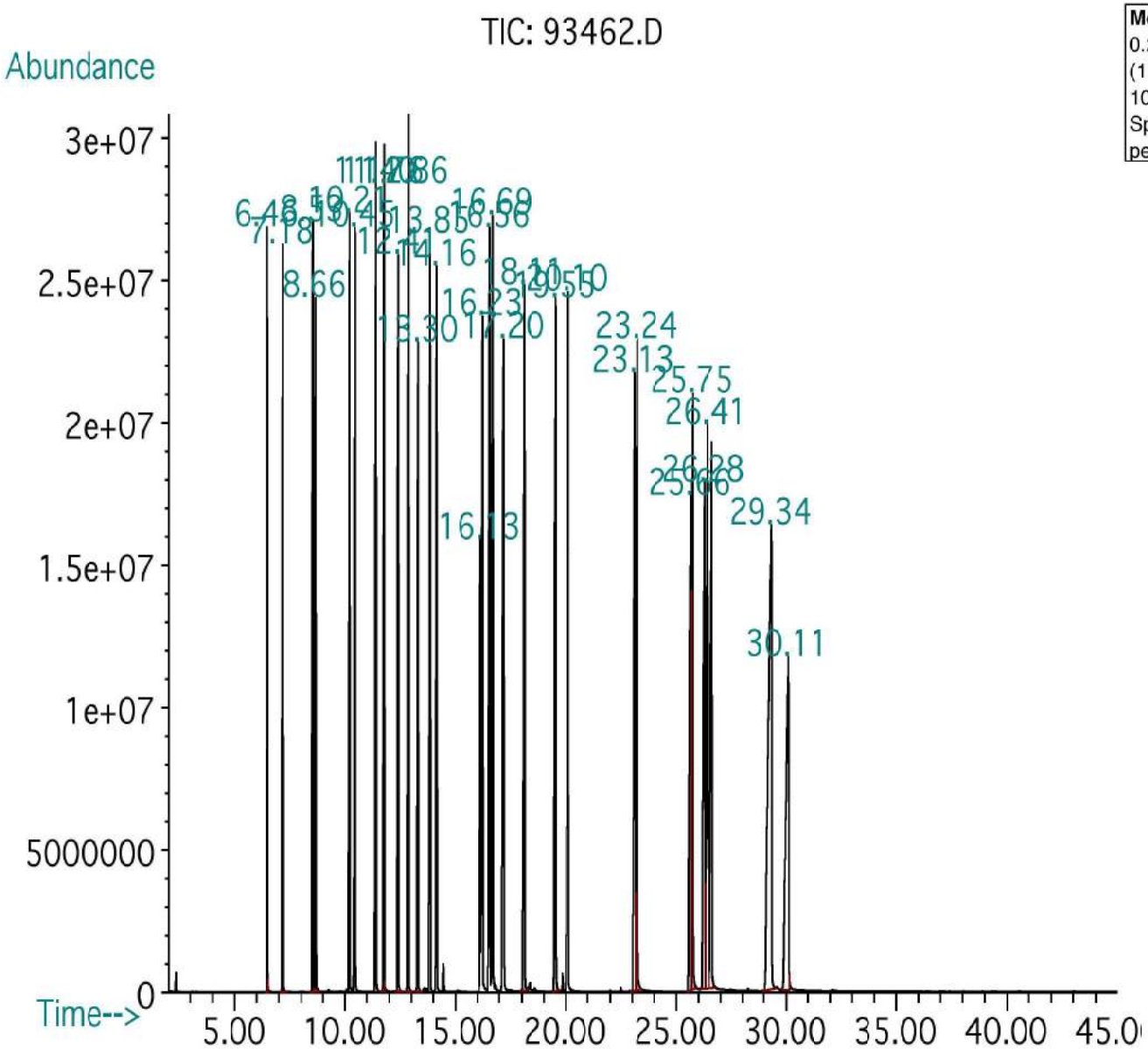
- **Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.**
- **All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.**
- **Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).**



Method GC8MSD-2Long: Column:SPB-5 (30m X 0.25mm ID X 0.25μm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (14min.), Rate = 10°C/min., Injector B= 250°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Gina McLane.

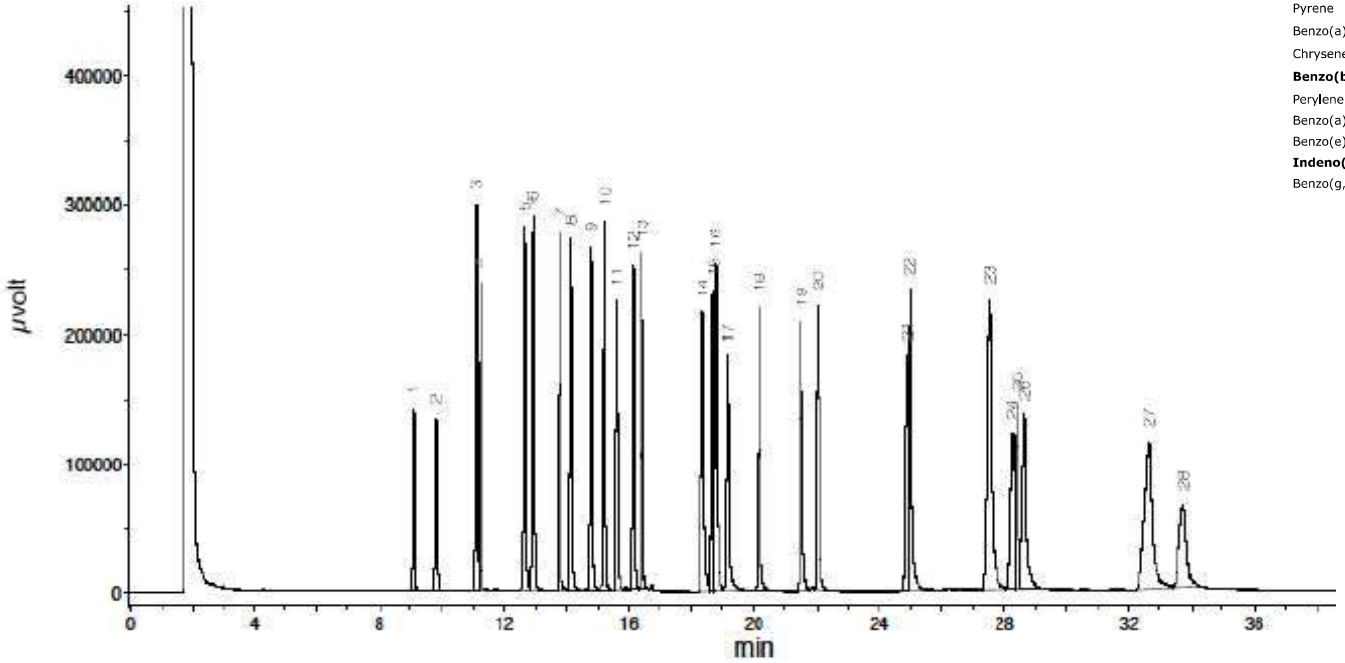
Retention Time (min.)	
Decahydronaphthalene (Decalin) (isomer)	6.46
Decahydronaphthalene (Decalin) (isomer)	7.18
Naphthalene	8.53
Thianaphthene	8.66
2-Methylnaphthalene	10.21
1-Methylnaphthalene	10.45
Biphenyl	11.4
2,6-Dimethylnaphthalene	11.76
Acenaphthylene	12.41
Acenaphthene	12.86
Dibenzofuran	13.3
2,3,5-Trimethylnaphthalene	13.85
Fluorene	14.16
Pentachlorophenol	16.13
Dibenzothiophene	16.23
Phenanthrene	16.56
Anthracene	16.69
Carbazole	17.2
1-Methylphenanthrene	18.11
Fluoranthene	19.55
Pyrene	20.1
Benzo(a)anthracene	23.13
Chrysene	23.24
Benzo(b)fluoranthene	25.66
Benzo(k)fluoranthene	25.75
Perylene	26.28
Benzo(a)pyrene	26.41
Benzo(e)pyrene	26.61
Indeno(1,2,3-cd)pyrene	29.34
Dibenzo(a,h)anthracene	29.34
Benzo(g,h,i)perylene	30.11

Run 3, "P93462 L060518 [1000µg/mL in MeCl2]"

Run Length: 40.00 min, 23999 points at 10 points/second.
Created: Wed, Jun 6, 2018 at 1:01:41 PM.
Sampled: Sequence "060618-GC9M2", Method "GC9-M2".
Analyzed using Method "GC9-M2".

Comments

GC9-M2 Analysis by Candice Warren
Column ID SPB-5 30 meter x 0.53mm x 1.5um Film Thickness.
Flow rates; Total Flow = 300 ml/min, Helium (carrier) = 6.5 mL, Helium (make-up) = 25 mL.
Hydrogen (detector) = 30 mL, Air (detector) =360 mLOven Temp 1 = 50°C (1 min).
Rate = 10°C/min, Oven Temp 2 = 300°C (14 min), Total Run Time = 40 Minutes. Injector Temp = 250°C.
FID Temp = 300°C, FID Signal = eDaq Channel 1.
Gas Chromatograph = HP 5890, Auto Sampler = HP 7673, Standard Injection = 0.5 uL, Range = 4



Name	FID RT (min.)
Decahydronaphthalene (Decalin) (isomer)	9.10
Decahydronaphthalene (Decalin) (isomer)	9.81
Naphthalene	11.10
Thianaphthene	11.23
2-Methylnaphthalene	12.67
1-Methylnaphthalene	12.93
Biphenyl	13.77
2,6-Dimethylnaphthalene	14.13
Acenaphthylene	14.78
Acenaphthene	15.22
Dibenzofuran	15.59
2,3,5-Trimethylnaphthalene	16.12
Fluorene	16.41
Pentachlorophenol/Dibenzothiophene	**18.36**
Phenanthrene	18.66
Anthracene	18.77
Carbazole	19.15
1-Methylphenanthrene	20.14
Fluoranthene	21.50
Pyrene	22.03
Benzo(a)anthracene	24.89
Chrysene	24.99
Benzo(b)fluoranthene/Benzo(k)fluoranthene	**27.54**
Perylene	28.26
Benzo(a)pyrene	28.40
Benzo(e)pyrene	28.65
Indeno(1,2,3-cd)pyrene/Dibenzo(a,h)anthracene	**32.63**
Benzo(g,h,i)perylene	33.73

Reagent

MSS_AB_PHTHAL_00004

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Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
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CERTIFIED WEIGHT REPORT

Part Number: **19242**
Lot Number: 102720
Description: EPA Method 606 - Phthalate Esters
6 components
Expiration Date: 102723
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 23060

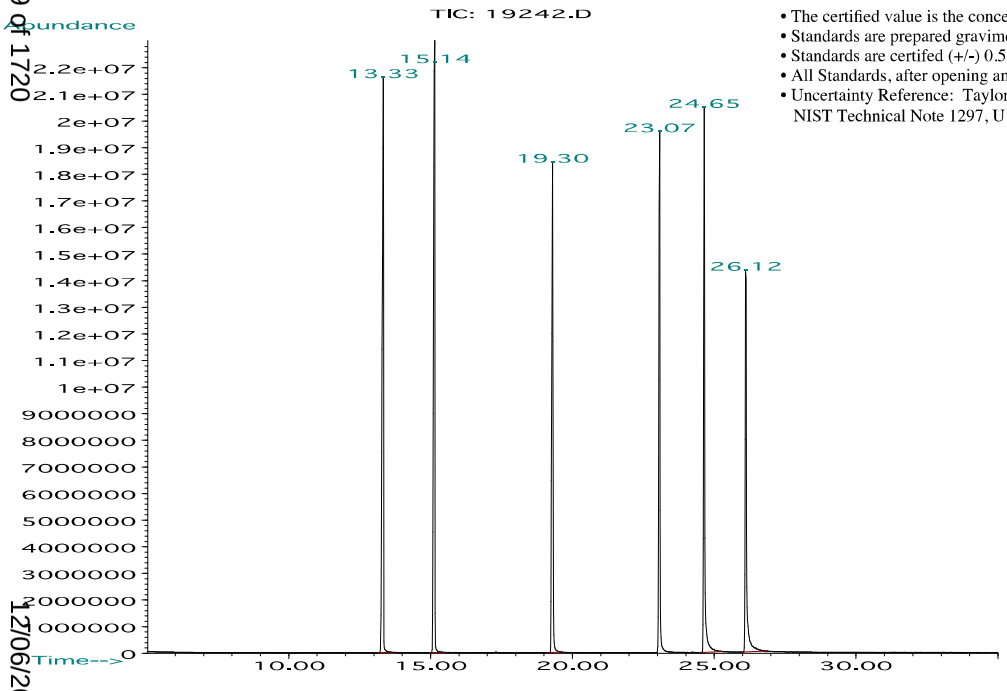
Solvent(s): **Lot#**
Methanol DX932-US

		102720
Formulated By:	Benson Chan	DATE
		102720
Reviewed By:	Pedro L. Rentas	DATE

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 25.0 0.002 Flask Uncertainty

	Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity (%)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	bis(2-Ethylhexyl) phthalate	179	05312JE	2000	99	0.2	0.05051	0.05059	2003.1	9.0	117-81-7	5mg/m3/8H	orl-rat 30000mg/kg
2.	Di-n-butyl phthalate	58	09119LX	2000	99	0.2	0.05051	0.05059	2003.1	9.0	84-74-2	5mg/m3/8H	orl-rat 8000mg/kg
3.	Dimethyl phthalate	157	07416AT	2000	99	0.2	0.05051	0.05080	2011.4	9.0	131-11-3	5mg/m3/8H	orl-rat 6800mg/kg
4.	Benzyl butyl phthalate	36	MKBH8959V	2000	98	0.2	0.05103	0.05110	2002.8	9.1	85-68-7	N/A	orl-rat 2330mg/kg
5.	Diethyl phthalate	154	10517MW	2000	99	0.2	0.05051	0.05062	2004.3	9.0	84-66-2	5mg/m3/8H	orl-rat 8600mg/kg
6.	Di-n-octyl phthalate	107	FIE01	2000	99	0.2	0.05051	0.05057	2002.3	9.0	117-84-0	N/A	orl-rat 47000mg/kg

Method GC8MSD-3.M: Column: SPB-5 (30m X 0.25mm ID X 0.25µm film thickness), Temp 1 = 50°C (1 min.), Temp 2 = 300°C 9 min.), Rate = 10°C/min., Injector B= 200°C, Detector B = 300°C.Split Ratio = 100:1, Sample Rate=2. 0.5µL Standard injection Analysis performed by Melissa Stonier.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Peak No.	Name	MSD RT (min.)
1	Dimethyl phthalate	13.33
2	Diethyl phthalate	15.14
3	Di-n-butyl phthalate	19.30
4	Benzyl butyl phthalate	23.07
5	bis(2-Ethylhexyl) phthalate	24.65
6	Di-n-octyl phthalate	26.12

Reagent

MSS_AB_PHTHAL_00008

CERTIFIED WEIGHT REPORT

Part Number: 19242
Lot Number: 061821
Description: EPA Method 606 - Phthalate Esters
6 components
Expiration Date: 061824
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 6UTB

Solvent(s): Methanol **Lot#** DY186-US

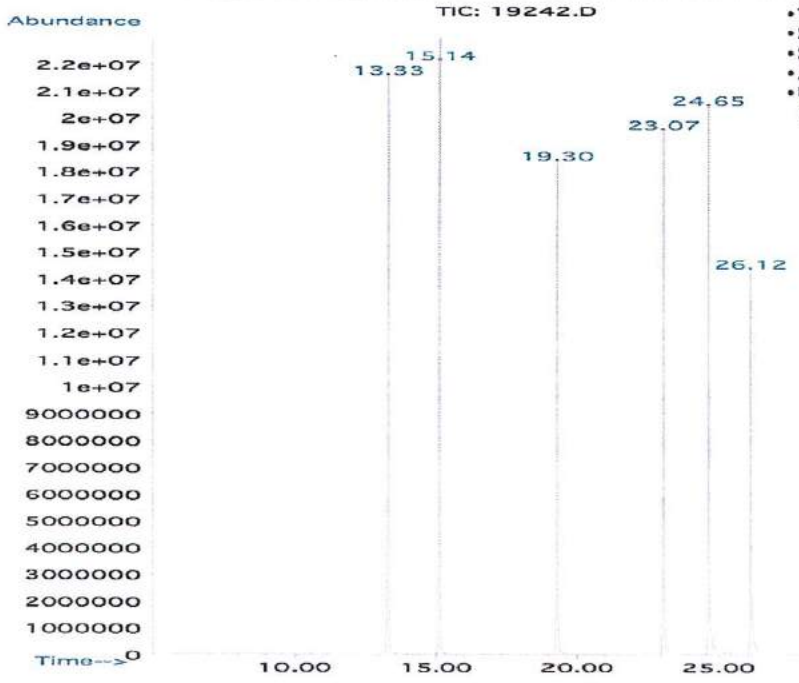
Formulated By:	Benson Chan	061821 DATE
Reviewed By:	Pedro L. Rentas	061821 DATE

Weight(s) shown below were combined and diluted to (mL): 25.0 0.000 Flask Uncertainty

5E-05 Balance Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity (%)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. bis(2-Ethylhexyl) phthalate	179	MKCD5517	2000	99.6	0.2	0.05029	0.05054	2010.0	9.0	117-81-7	5mg/m3/8H	orl-rat 30000mg/kg
2. Di-n-butyl phthalate	58	09119LX	2000	99	0.2	0.05059	0.05081	2008.6	9.0	84-74-2	5mg/m3/8H	orl-rat 8000mg/kg
3. Dimethyl phthalate	157	07416AT	2000	99	0.2	0.05059	0.05085	2010.2	9.0	131-11-3	5mg/m3/8H	orl-rat 6800mg/kg
4. Benzyl butyl phthalate	36	MKBH8959V	2000	98	0.2	0.05111	0.05125	2005.5	9.1	85-68-7	N/A	orl-rat 2330mg/kg
5. Diethyl phthalate	154	10517MW	2000	99	0.2	0.05059	0.05078	2007.4	9.0	84-66-2	5mg/m3/8H	orl-rat 8600mg/kg
6. Di-n-octyl phthalate	107	FIE01	2000	99	0.2	0.05059	0.05075	2006.2	9.0	117-84-0	N/A	orl-rat 47000mg/kg

Method GC8MSD-3.M: Column: SPB-5 (30m X 0.25mm ID X 0.25µm film thickness), Temp 1 = 50°C (1 min.), Temp 2 = 300°C 9 min.), Rate = 10°C/min., Injector B= 200°C, Detector B = 300°C.Split Ratio = 100:1, Sample Rate=2. 0.5µL Standard injection Analysis performed by Melissa Stonier.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Peak No.	Name	MSD RT (min.)
1	Dimethyl phthalate	13.33
2	Diethyl phthalate	15.14
3	Di-n-butyl phthalate	19.30
4	Benzyl butyl phthalate	23.07
5	bis(2-Ethylhexyl) phthalate	24.65
6	Di-n-octyl phthalate	26.12

Reagent

MSS_AB_QUIN_00007

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 70353
Lot Number: 061820
Description: Quinoline

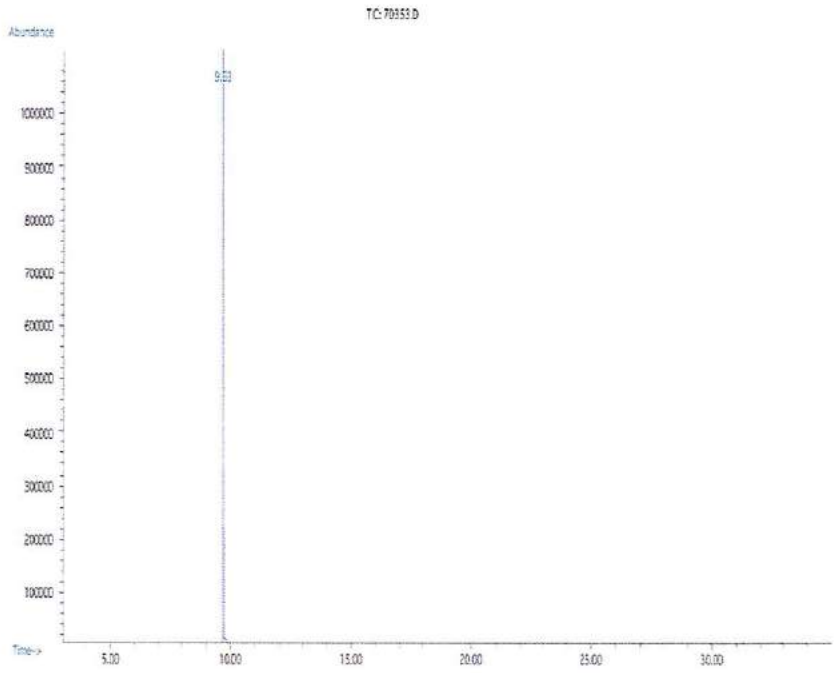
Solvent(s): **Lot#**
Methylene chloride 104929

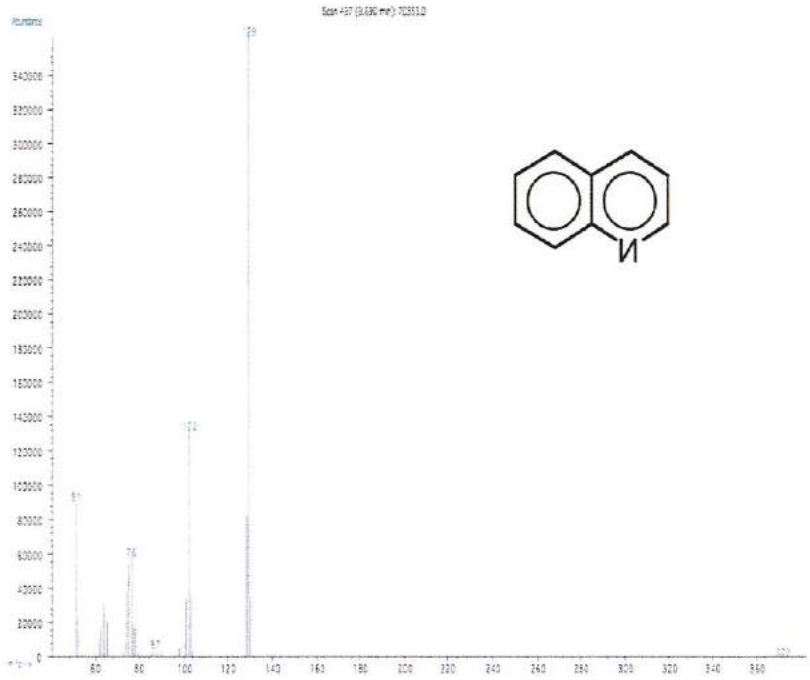
Expiration Date: 061823
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 23060 5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 100.0 0.003 Flask Uncertainty

061820	
Formulated By: Prashant Chauhan	DATE
061820	
Reviewed By: Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Quinoline	353	01501KY	1000	98	0.2	0.10205	0.10215	1001.0	4.2	91-22-5	N/A	N/A

Method GC8MSD-3.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B= 200°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Candice Warren.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Reagent

MSS_FV8270_IS_00005

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Composition

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. : 576940 **Lot No.:** A0166482

Description : Custom Internal Standard

Custom Internal Standard 1,000µg/mL, Methylene chloride, 1mL/ampul

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

Expiration Date : November 30, 2023 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1,4-Dichlorobenzene-d4	1,001.3 µg/mL	+/- 5.8215	µg/mL	Gravimetric
	CAS # 3855-82-1 (Lot PR-30447)		+/- 45.0977	µg/mL	Unstressed
	Purity 99%		+/- 50.0414	µg/mL	Stressed
2	Naphthalene-d8	1,003.7 µg/mL	+/- 5.8358	µg/mL	Gravimetric
	CAS # 1146-65-2 (Lot M-1452)		+/- 45.2087	µg/mL	Unstressed
	Purity 99%		+/- 50.1647	µg/mL	Stressed
3	Acenaphthene-d10	1,005.7 µg/mL	+/- 5.8474	µg/mL	Gravimetric
	CAS # 15067-26-2 (Lot PR-30913)		+/- 45.2988	µg/mL	Unstressed
	Purity 99%		+/- 50.2646	µg/mL	Stressed
4	Phenanthrene-d10	1,006.9 µg/mL	+/- 5.8540	µg/mL	Gravimetric
	CAS # 1517-22-2 (Lot PR-29119)		+/- 45.3499	µg/mL	Unstressed
	Purity 99%		+/- 50.3213	µg/mL	Stressed
5	Pyrene-d10	1,008.7 µg/mL	+/- 5.8649	µg/mL	Gravimetric
	CAS # 1718-52-1 (Lot PR-30304)		+/- 45.4340	µg/mL	Unstressed
	Purity 99%		+/- 50.4146	µg/mL	Stressed
6	Perylene-d12	1,004.0 µg/mL	+/- 5.8373	µg/mL	Gravimetric
	CAS # 1520-96-3 (Lot PR-30020)		+/- 45.2208	µg/mL	Unstressed
	Purity 99%		+/- 50.1780	µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

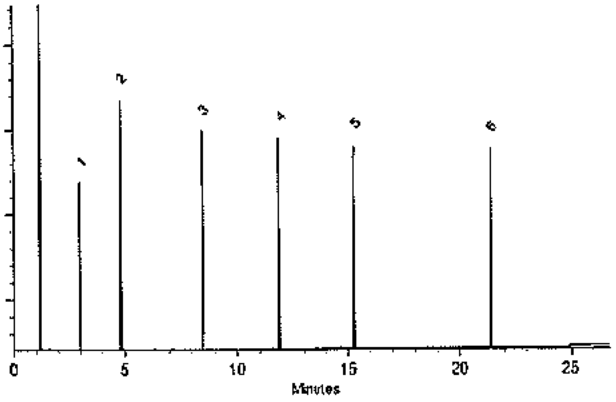
Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID



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

Tom Suckar - Mix Technician

Date Mixed: 18-Nov-2020 **Balance:** B442140311

Justine Albertson - Operations Tech-ARM QC

Date Passed: 19-Nov-2020

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

Reagent

MSS_SIM_SURR_00006

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Gravimetric Certificate

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. : 569089 **Lot No.:** A0168817

Description : Custom SIM Surrogates Standard

Custom SIM Surrogates Standard 1,000µg/mL, Methylene Chloride, 1mL/ampul

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

Expiration Date : January 31, 2027 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

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

Component #	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1-Methylnaphthalene-d10	1,004.0 µg/mL	+/- 10.1140 µg/mL	Gravimetric
	CAS # 38072-94-5 (Lot M-483)		+/- 45.9689 µg/mL	Unstressed
	Purity 99%		+/- 50.8532 µg/mL	Stressed
2	Benzo(a)pyrene-d12	1,004.0 µg/mL	+/- 10.1140 µg/mL	Gravimetric
	CAS # 63466-71-7 (Lot PR-30235)		+/- 45.9689 µg/mL	Unstressed
	Purity 99%		+/- 50.8532 µg/mL	Stressed
3	Fluoranthene-d10	1,004.0 µg/mL	+/- 10.1140 µg/mL	Gravimetric
	CAS # 93951-69-0 (Lot PR-20668)		+/- 45.9689 µg/mL	Unstressed
	Purity 99%		+/- 50.8532 µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tom Suckar - Mix Technician

Date Mixed: 05-Feb-2021 **Balance:** B442140311

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

MSS_SIMTEL_IS_00010

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Bellefonte, PA 16823-8812
Tel: (800)356-1688
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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. : 31206 **Lot No.:** A0170322

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

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

Expiration Date : February 28, 2027 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

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

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1,4-Dichlorobenzene-d4		2,019.3 µg/mL	+/- 11.7406	µg/mL	Gravimetric
	CAS # 3855-82-1	(Lot PR-30447)		+/- 90.9520	µg/mL	Unstressed
	Purity 99%			+/- 100.9225	µg/mL	Stressed
2	Naphthalene-d8		2,015.3 µg/mL	+/- 11.7173	µg/mL	Gravimetric
	CAS # 1146-65-2	(Lot M-1452)		+/- 90.7718	µg/mL	Unstressed
	Purity 99%			+/- 100.7225	µg/mL	Stressed
3	Acenaphthene-d10		2,010.0 µg/mL	+/- 11.6863	µg/mL	Gravimetric
	CAS # 15067-26-2	(Lot PR-30913)		+/- 90.5316	µg/mL	Unstressed
	Purity 99%			+/- 100.4560	µg/mL	Stressed
4	Phenanthrene-d10		2,012.7 µg/mL	+/- 11.7018	µg/mL	Gravimetric
	CAS # 1517-22-2	(Lot PR-29119)		+/- 90.6517	µg/mL	Unstressed
	Purity 99%			+/- 100.5893	µg/mL	Stressed
5	Chrysene-d12		2,020.0 µg/mL	+/- 11.7445	µg/mL	Gravimetric
	CAS # 1719-03-5	(Lot PR-31391)		+/- 90.9820	µg/mL	Unstressed
	Purity 99%			+/- 100.9558	µg/mL	Stressed
6	Perylene-d12		2,018.0 µg/mL	+/- 11.7328	µg/mL	Gravimetric
	CAS # 1520-96-3	(Lot PR-30020)		+/- 90.8919	µg/mL	Unstressed
	Purity 99%			+/- 100.8558	µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

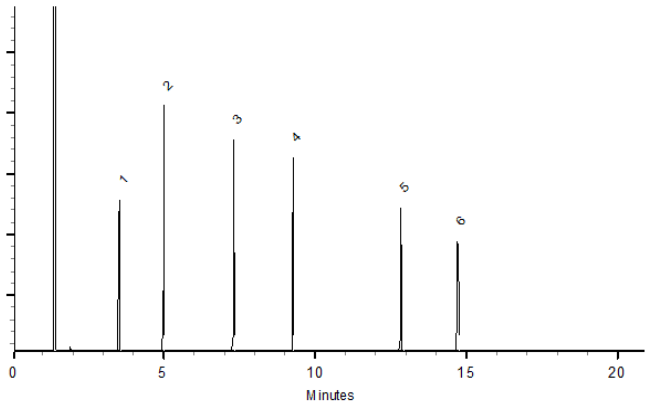
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



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

Cory Meyer - Operations Tech I

Date Mixed: 18-Mar-2021 **Balance:** B345965662

Justine Albertson - Operations Tech-ARM QC

Date Passed: 23-Mar-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_2,3,4TCB_00006

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

2,3,4-Trichlorobutene

CATALOG NUMBER	RPN-14214-1G
LOT NUMBER	11793200
DATE CERTIFIED	01/27/21
EXPIRATION DATE	01/31/24
CAS NUMBER	2431-50-7
MOLECULAR FORMULA	C4H5Cl3
MOLECULAR WEIGHT	159.4
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)	92.2

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

Certified By:

Mary Beth O'Donnell

Mary Beth O'Donnell
CSM/TC

COA Form
Revision 3 (3/2015)

PJLA Testing

Print Date: 05/11/21

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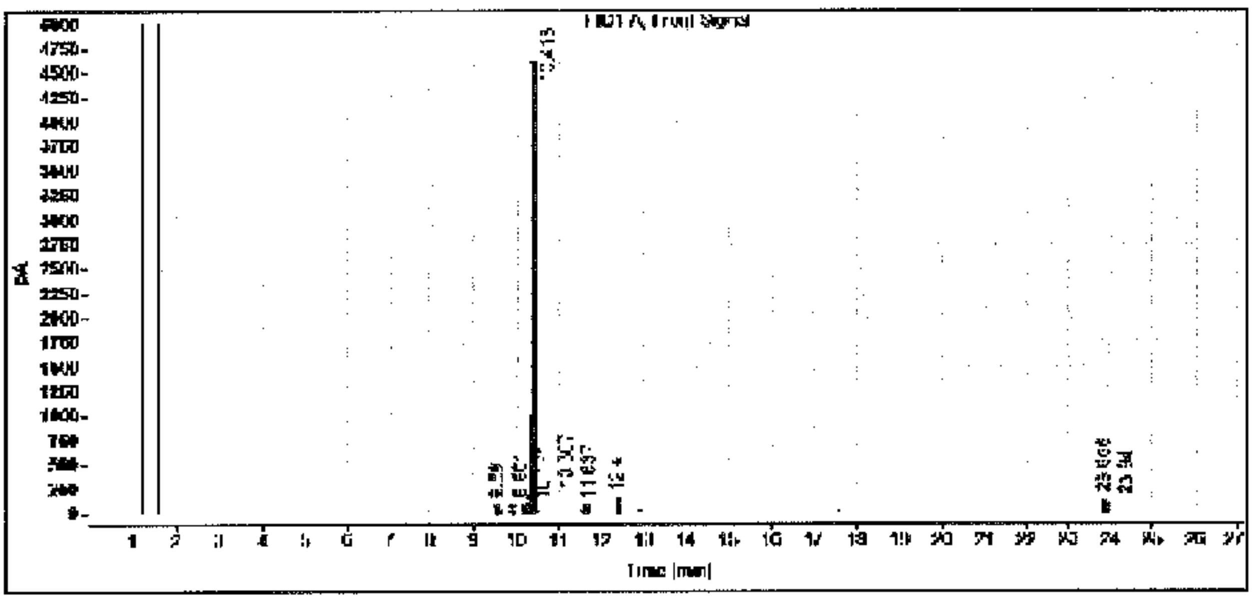
CERTIFICATE OF ANALYSIS

Gas Chromatography / Flame Ionization Detector (GC/FID)

Data file: C:\CHEM32\1\DATA\2021 DATA\0121\FID043183.D

Sample name: N-14214

Instrument:	GC 1	**Sample type:**	Sample
Injection date:	1/27/2021 12:13:47 PM	**Location:**	Vial 13
Acq. method:	MIX1.M	**Injection volume:**	1.0uL
Column name:	DB-624 (30m x 0.53mm x 3.0um)		



Signal: FID1 A, Front Signal

RT [min]	Type	Width [min]	Area	Height	Area%
9.580	VB	0.0339	48.6971	22.7906	0.4134
9.901	BB	0.0321	78.2557	37.8827	0.6643
10.171	BV	0.0308	19.5861	10.0011	0.1663
10.307	VV	0.0332	280.3033	129.7073	2.3793
10.413	VV	0.0368	10866.7959	4554.9258	92.2405
11.637	VV	0.0367	43.0805	16.3721	0.3657
12.400	VB	0.0338	197.2606	92.7570	1.6744
23.666	VV	0.0353	149.6531	66.4677	1.2703
23.940	VV	0.034[illegible]	[illegible]	[illegible]	[illegible]

Sun

PJLA Testing

Reagent

MSV_3,4DC1Be_00002

Certificate of Analysis

Oct 16, 2019 (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: 6432K	

Tests	Results	Specifications
Purity(GC)	99.3 %	min. 98.0 %
Specific gravity (20/20)	1.1562	1.1530 to 1.1570
Refractive index n20/D	1.4655	1.4640 to 1.4670

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

Ryo Ogawa
Quality Assurance Dep. Manager

Reagent

MSV_8260_SS_00775

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 55671 **Lot No.:** A0183565

Description : 8260A Surrogate Mix

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

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

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

Ship: Ambient

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

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

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

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

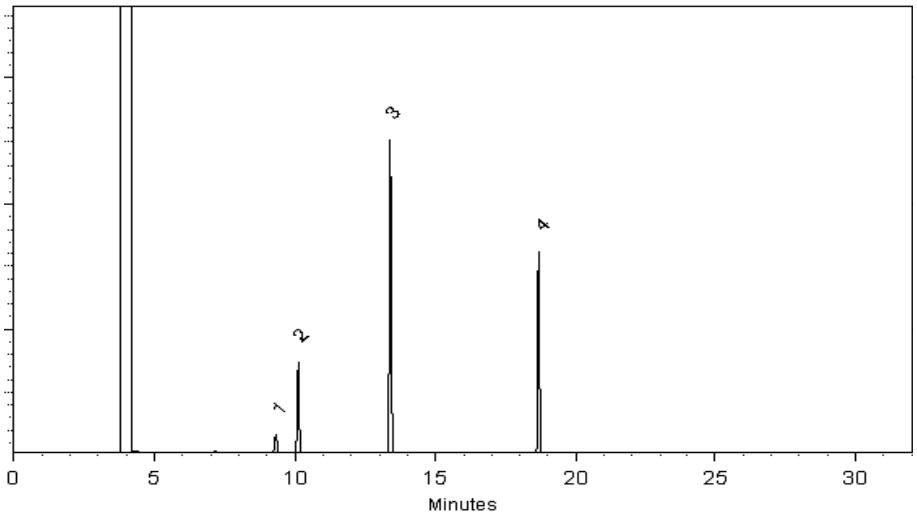
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Russ Bookhamer - Operations Technician I

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

Fang-Yun Lo - QC Analyst

Date Passed: 04-Apr-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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_AcetatesV_00014

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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. : 577489 **Lot No.:** A0171524

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 : October 31, 2022 **Storage:** -20°C or colder

Ship: On Ice

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	Acetonitrile	50,228.0 µg/mL	+/- 294.0960 µg/mL	Gravimetric
	CAS # 75-05-8 (Lot SHBH6233)		+/- 2,484.9148 µg/mL	Unstressed
	Purity 99%		+/- 2,546.6923 µg/mL	Stressed
2	Vinyl acetate	10,008.0 µg/mL	+/- 58.7326 µg/mL	Gravimetric
	CAS # 108-05-4 (Lot RD200601)		+/- 495.1386 µg/mL	Unstressed
	Purity 99%		+/- 507.4475 µg/mL	Stressed
3	Ethyl acetate	10,056.0 µg/mL	+/- 59.0142 µg/mL	Gravimetric
	CAS # 141-78-6 (Lot SHBM3421)		+/- 497.5134 µg/mL	Unstressed
	Purity 99%		+/- 509.8813 µg/mL	Stressed
4	Isopropyl acetate	10,052.0 µg/mL	+/- 58.9908 µg/mL	Gravimetric
	CAS # 108-21-4 (Lot BCBZ4645)		+/- 497.3155 µg/mL	Unstressed
	Purity 99%		+/- 509.6785 µg/mL	Stressed
5	Propyl acetate	10,016.0 µg/mL	+/- 58.7795 µg/mL	Gravimetric
	CAS # 109-60-4 (Lot ZJZVG)		+/- 495.5344 µg/mL	Unstressed
	Purity 99%		+/- 507.8531 µg/mL	Stressed
6	Butyl acetate	10,074.0 µg/mL	+/- 59.1199 µg/mL	Gravimetric
	CAS # 123-86-4 (Lot SHBL9111)		+/- 498.4039 µg/mL	Unstressed
	Purity 99%		+/- 510.7940 µg/mL	Stressed

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.

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

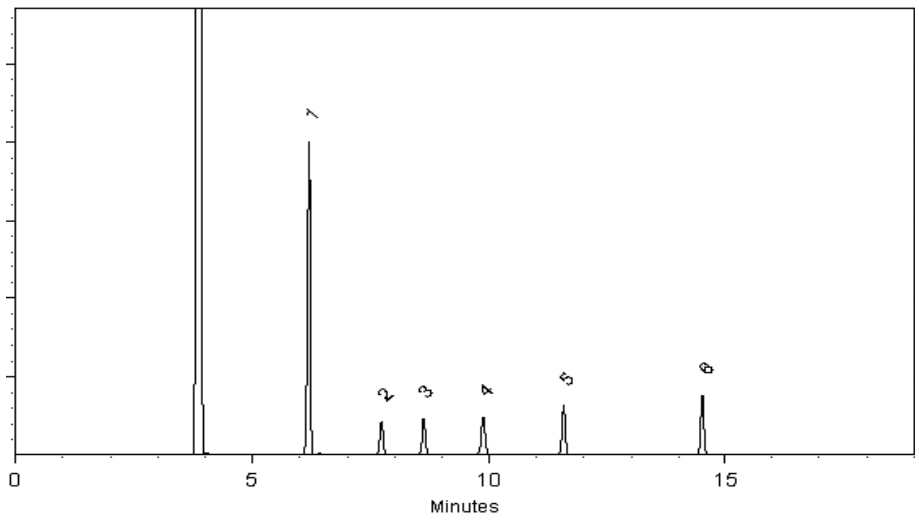
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Sam Moodler - Operations Tech I

Date Mixed: 21-Apr-2021 **Balance:** B251644995

Alexis Shelow - Operations Tech I

Date Passed: 23-Apr-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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Reagent

MSV_c14dcb_Nt_00003

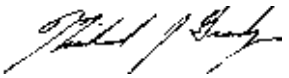
SIGMA-ALDRICH®
sigma-aldrich.com
3050 Spruce Street, Saint Louis, MO 63103, USA
Website: www.sigmaaldrich.com
Email USA: techserv@sial.com
Outside USA: eurtechserv@sial.com

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_00292

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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. : 577488 **Lot No.:** A0184815

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, 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)	2,008.5 µg/mL	+/- 16.4522 µg/mL	Gravimetric
	CAS # 75-71-8 (Lot 00012554)		+/- 113.2099 µg/mL	Unstressed
	Purity 99%		+/- 115.8314 µg/mL	Stressed
2	Chloromethane (methyl chloride)	2,017.9 µg/mL	+/- 17.1593 µg/mL	Gravimetric
	CAS # 74-87-3 (Lot SHBK6571)		+/- 113.8303 µg/mL	Unstressed
	Purity 99%		+/- 116.4619 µg/mL	Stressed
3	Vinyl chloride	2,023.8 µg/mL	+/- 20.0801 µg/mL	Gravimetric
	CAS # 75-01-4 (Lot 00015559)		+/- 114.6342 µg/mL	Unstressed
	Purity 99%		+/- 117.2631 µg/mL	Stressed
4	1,3-Butadiene	2,021.2 µg/mL	+/- 16.5562 µg/mL	Gravimetric
	CAS # 106-99-0 (Lot 00019375)		+/- 113.9252 µg/mL	Unstressed
	Purity 99%		+/- 116.5633 µg/mL	Stressed
5	Bromomethane (methyl bromide)	2,003.9 µg/mL	+/- 16.6513 µg/mL	Gravimetric
	CAS # 74-83-9 (Lot 101604)		+/- 112.9858 µg/mL	Unstressed
	Purity 99%		+/- 115.6006 µg/mL	Stressed
6	Chloroethane (ethyl chloride)	2,024.9 µg/mL	+/- 16.7845 µg/mL	Gravimetric
	CAS # 75-00-3 (Lot 107-401039114-1)		+/- 114.1621 µg/mL	Unstressed
	Purity 99%		+/- 116.8044 µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)	2,000.0 µg/mL	+/- 11.6550 µg/mL	Gravimetric
	CAS # 75-43-4 (Lot 12841600)		+/- 112.1408 µg/mL	Unstressed
	Purity 99%		+/- 114.7646 µg/mL	Stressed

8	Trichlorofluoromethane (CFC-11)		2,015.0	µg/mL	+/-	11.7425	µg/mL	Gravimetric
	CAS # 75-69-4	(Lot MKCL8411)			+/-	112.9819	µg/mL	Unstressed
	Purity 99%				+/-	115.6254	µg/mL	Stressed
9	1,2-Dichloro-1,1,2-trifluoroethane (CFC-123a)		2,002.3	µg/mL	+/-	20.4087	µg/mL	Gravimetric
	CAS # 354-23-4	(Lot Q9B-64)			+/-	113.5126	µg/mL	Unstressed
	Purity 99%				+/-	116.1114	µg/mL	Stressed

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

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

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

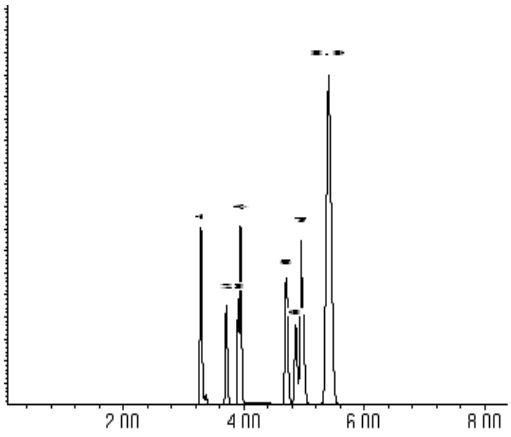
Carrier Gas:
helium-constant flow 2.0 mL/min.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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

Miranda Kline - Operations Technician I

Date Mixed: 03-May-2022 **Balance:** B707717271

Christie Mills - Operations Technician II

Date Passed: 09-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_CCV_GASES_00320

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

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577488 **Lot No.:** A0184815

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, 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)	2,008.5 µg/mL	+/- 16.4522 µg/mL	Gravimetric
	CAS # 75-71-8 (Lot 00012554)		+/- 113.2099 µg/mL	Unstressed
	Purity 99%		+/- 115.8314 µg/mL	Stressed
2	Chloromethane (methyl chloride)	2,017.9 µg/mL	+/- 17.1593 µg/mL	Gravimetric
	CAS # 74-87-3 (Lot SHBK6571)		+/- 113.8303 µg/mL	Unstressed
	Purity 99%		+/- 116.4619 µg/mL	Stressed
3	Vinyl chloride	2,023.8 µg/mL	+/- 20.0801 µg/mL	Gravimetric
	CAS # 75-01-4 (Lot 00015559)		+/- 114.6342 µg/mL	Unstressed
	Purity 99%		+/- 117.2631 µg/mL	Stressed
4	1,3-Butadiene	2,021.2 µg/mL	+/- 16.5562 µg/mL	Gravimetric
	CAS # 106-99-0 (Lot 00019375)		+/- 113.9252 µg/mL	Unstressed
	Purity 99%		+/- 116.5633 µg/mL	Stressed
5	Bromomethane (methyl bromide)	2,003.9 µg/mL	+/- 16.6513 µg/mL	Gravimetric
	CAS # 74-83-9 (Lot 101604)		+/- 112.9858 µg/mL	Unstressed
	Purity 99%		+/- 115.6006 µg/mL	Stressed
6	Chloroethane (ethyl chloride)	2,024.9 µg/mL	+/- 16.7845 µg/mL	Gravimetric
	CAS # 75-00-3 (Lot 107-401039114-1)		+/- 114.1621 µg/mL	Unstressed
	Purity 99%		+/- 116.8044 µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)	2,000.0 µg/mL	+/- 11.6550 µg/mL	Gravimetric
	CAS # 75-43-4 (Lot 12841600)		+/- 112.1408 µg/mL	Unstressed
	Purity 99%		+/- 114.7646 µg/mL	Stressed

8	Trichlorofluoromethane (CFC-11)		2,015.0	µg/mL	+/-	11.7425	µg/mL	Gravimetric
	CAS # 75-69-4	(Lot MKCL8411)			+/-	112.9819	µg/mL	Unstressed
	Purity 99%				+/-	115.6254	µg/mL	Stressed
9	1,2-Dichloro-1,1,2-trifluoroethane (CFC-123a)		2,002.3	µg/mL	+/-	20.4087	µg/mL	Gravimetric
	CAS # 354-23-4	(Lot Q9B-64)			+/-	113.5126	µg/mL	Unstressed
	Purity 99%				+/-	116.1114	µg/mL	Stressed

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

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

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

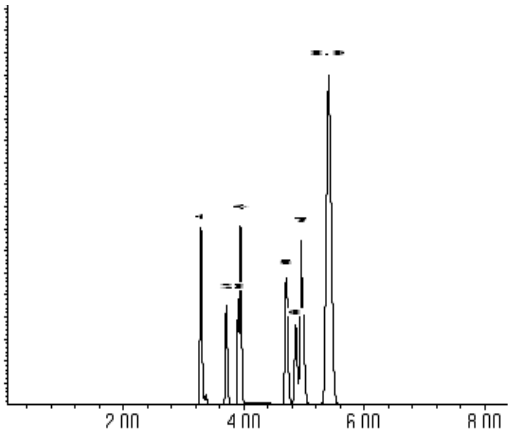
Carrier Gas:
helium-constant flow 2.0 mL/min.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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

Miranda Kline - Operations Technician I

Date Mixed: 03-May-2022 **Balance:** B707717271

Christie Mills - Operations Technician II

Date Passed: 09-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_CYC_00007

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CERTIFICATE OF ANALYSIS

Cyclohexanone

CATALOG NUMBER	N-11531-1G
LOT NUMBER	12628400
DATE CERTIFIED	05/15/18
EXPIRATION DATE	05/31/23
CAS NUMBER	108-94-1
MOLECULAR FORMULA	C6H10O
MOLECULAR WEIGHT	98.16
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
PHYSICAL APPEARANCE	COLORLESS LIQUID

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

Certified By:

Mary Beth O'Donnell

Mary Beth O'Donnell
CSM/TC

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

PJLA Testing

PJLA Reference Material Producer

COA Form
Revision 3 (3/2015)

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CERTIFICATE OF ANALYSIS

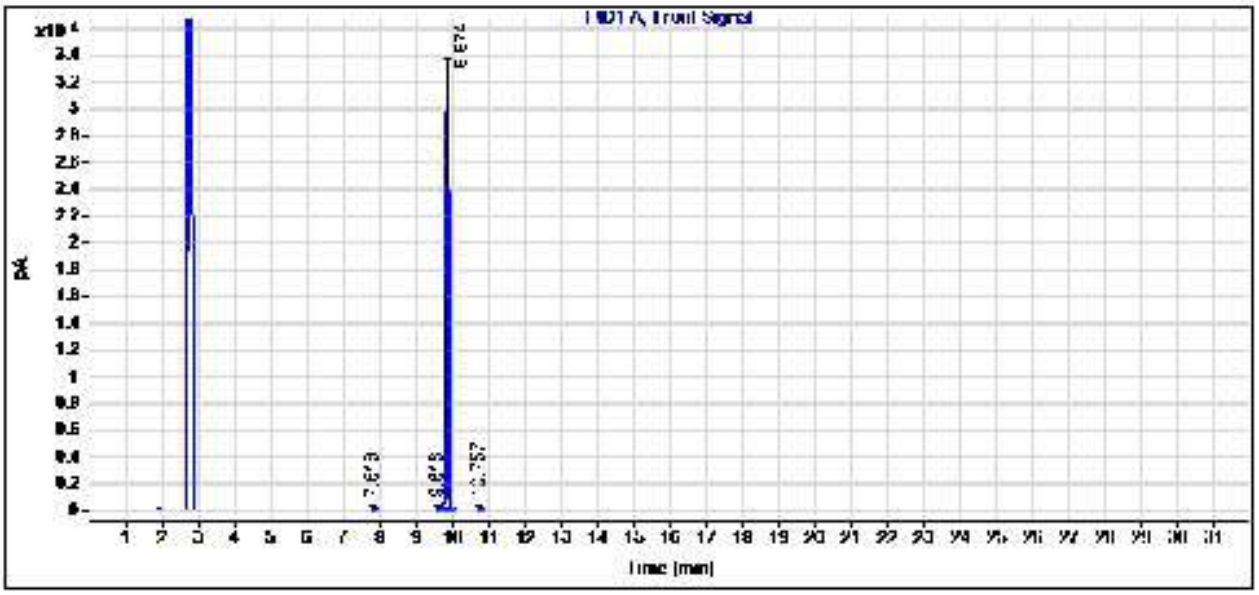
Gas Chromatography / Flame Ionization Detector (GC/FID)

Data file: C:\CHEM32\1\DATA\2018 DATA\0518\SIG1010143.D

Sample name: N-11531/ACETONE

Instrument: GC 1
Injection date: 5/15/2018 8:14:17 AM
Acq. method: MIX1.M
Column name: DB-624 (30m x 0.53mm x 3.0um)

Sample type: Sample
Location: Vial 1
Injection volume: 1.0uL



Signal: FID1 A, Front Signal

RT [min]	Type	Width [min]	Area	Height	Area%
7.818	BB	0.0567	12.4787	2.6631	0.0090
9.616	BB	0.0420	22.9558	6.9935	0.0165
9.874	BB S	0.0575	138838.7188	33378.9727	99.9600
10.757	BB	0.0524	20.1641	4.8068	0.0145
		Sum	138894.3173		

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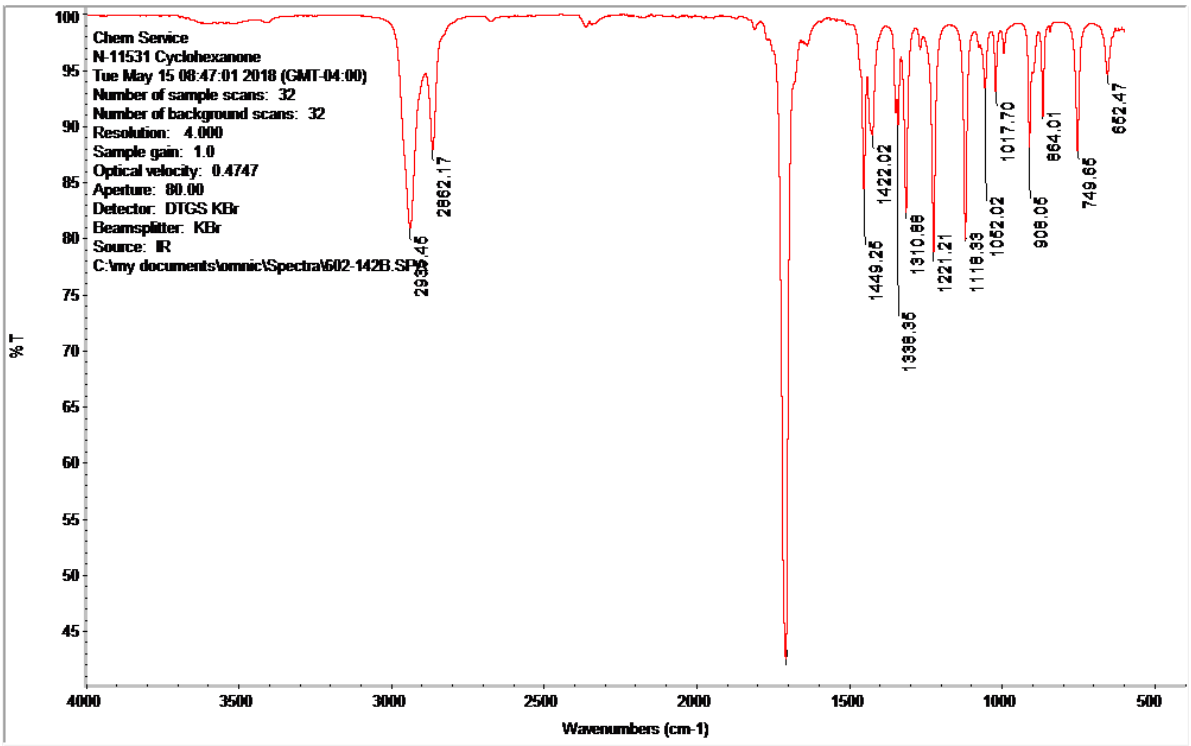
CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number: N-11531-1G
Description: Cyclohexanone
Lot Number: 12628400
Expiration Date: 05/31/23



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

Reagent

MSV_EE_Neat_00007

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CERTIFICATE OF ANALYSIS

Ethyl ether

CATALOG NUMBER	N-11897-1G
LOT NUMBER	12123300
DATE CERTIFIED	12/04/20
EXPIRATION DATE	12/31/25
CAS NUMBER	60-29-7
MOLECULAR FORMULA	C4H10O
MOLECULAR WEIGHT	74.12
STORAGE	Refrigerator storage (2 - 8 °C)
HANDLING	See Safety Data Sheet
INTENDED USE	For laboratory use only.

Analytical Test	Value
% PURITY (GC/TCD)	99.5

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

Certified By:

Mary Beth O'Donnell
CSM/TC

COA Form
Revision 3 (3/2015)

PJLA Testing
Accreditation #63520

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CERTIFICATE OF ANALYSIS

Gas Chromatography / Flame Ionization Detector (GC/FID)

Data file: C:\CHEM32\1\DATA\2020 DATA\1220\SIG2022771.D

Sample name: Ethylether

Instrument:	GC 1	**Sample type:**	Sample
Injection date:	12/4/2020 10:52:03 AM	**Location:**	Vial 21
Acq. method:	TCD SCREEN.M	**Injection volume:**	1.0uL
Column name:	DB-624 (30m x 0.53mm x 3.0um)		

Signal: TCD2 B, Back Signal

RT [min]	Type	Width [min]	Area	Height	Area%
1.206	BB	0.0364	16.2548	6.6698	0.0305
1.560	BB	0.0278	55.8996	29.9782	0.1049
1.892	BB	0.0328	64.6527	28.1084	0.1214
2.224	BB	0.0347	9.6188	4.3673	0.0181
2.545	BB S	0.0880	53125.6797	7942.5742	99.7251
		Sum	53272.1055		

PJLA Testing

Reagent

MSV_EtOH_00034

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CERTIFICATE OF ANALYSIS

Ethyl alcohol

CATALOG NUMBER	N-11885-1G
LOT NUMBER	13347300
DATE CERTIFIED	08/21/19
EXPIRATION DATE	08/30/25
CAS NUMBER	64-17-5
MOLECULAR FORMULA	C2H6O
MOLECULAR WEIGHT	46.07
STORAGE	Store at room temperature (20 - 25 °C).
HANDLING	See Safety Data Sheet
INTENDED USE	For laboratory use only.

Analytical Test	Value
% PURITY (GC/TCD)	99.5
% PURITY (GC/FID)	100.0
FT-IR SPECTROSCOPY	CONFORMS TO STRUCTURE
PHYSICAL APPEARANCE	COLORLESS LIQUID
% PURITY	99.8
ISO 17034:2016	CERTIFIED REFERENCE MATERIAL

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

PJLA Testing

PJLA Reference Material Producer

COA Form
Revision 3 (3/2015)

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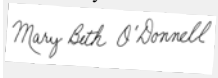
Chem Service, Inc. guarantees the purity to be +/- 0.5% deviation prior to the expiration date shown on the label and exclusive of any customer contamination.

Certified By:



Mary Beth O'Donnell
CSM/TC

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CERTIFICATE OF ANALYSIS

Gas Chromatography / Flame Ionization Detector (GC/FID)

Data file: C:\CHEM32\1\DATA\2019 DATA\0719\SIG2022556.D

Sample name: N-11885 NEAT TCD

Instrument:	GC 1	**Sample type:**	Sample
Injection date:	7/31/2019 11:37:41 AM	**Location:**	Vial 101
Acq. method:	N-11885 TCD.M	**Injection volume:**	1.0uL
Column name:	DB-624 (30m x 0.53mm x 3.0um)		

Signal: TCD2 B, Back Signal

RT [min]	Type	Width [min]	Area	Height	Area%
0.572	BB	0.0212	35.3817	25.4750	0.3006
0.769	BB	0.0375	16.7108	5.8171	0.1420
1.422	BB	0.1103	11708.3486	1361.3082	99.4587
1.727	BB	0.0260	11.6247	7.1305	0.0987
		Sum	11772.0658		

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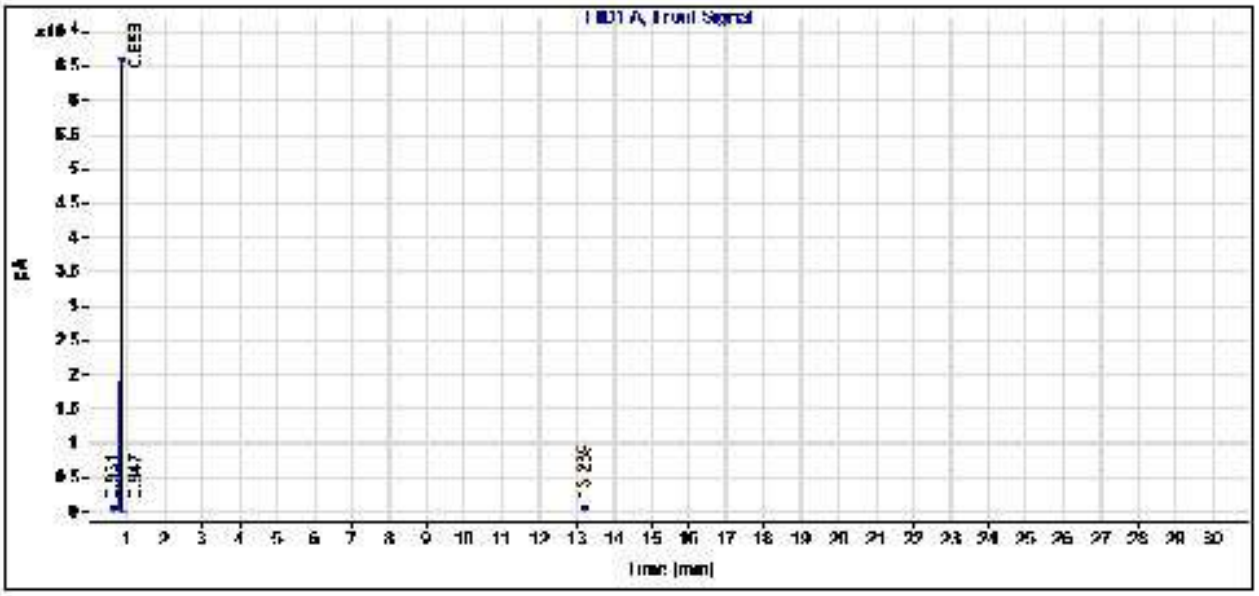
CERTIFICATE OF ANALYSIS

Gas Chromatography / Flame Ionization Detector (GC/FID)

Data file: C:\CHEM32\1\DATA\2019 DATA\073019\073019B 2019-07-30 16-13-42 \101F0403.D

Sample name: N-11885 neat

Instrument:	GC 1	**Sample type:**	Sample
Injection date:	7/31/2019 3:39:30 AM	**Location:**	Vial 101
Acq. method:	N-11885.M	**Injection volume:**	1.0uL
Column name:	DB-624 (30m x 0.53mm x 3.0um)		



Signal: FID1 A, Front Signal

RT [min]	Type	Width [min]	Area	Height	Area%
0.631	BV	0.0075	0.2668	0.5372	0.0002
0.647	VB	0.0112	27.4219	37.6672	0.0185
0.868	BB S	0.0287	148490.7656	65443.6719	99.9813
13.239	BB	0.0025	0.0186	0.1089	0.0000
		Sum	148518.4729		

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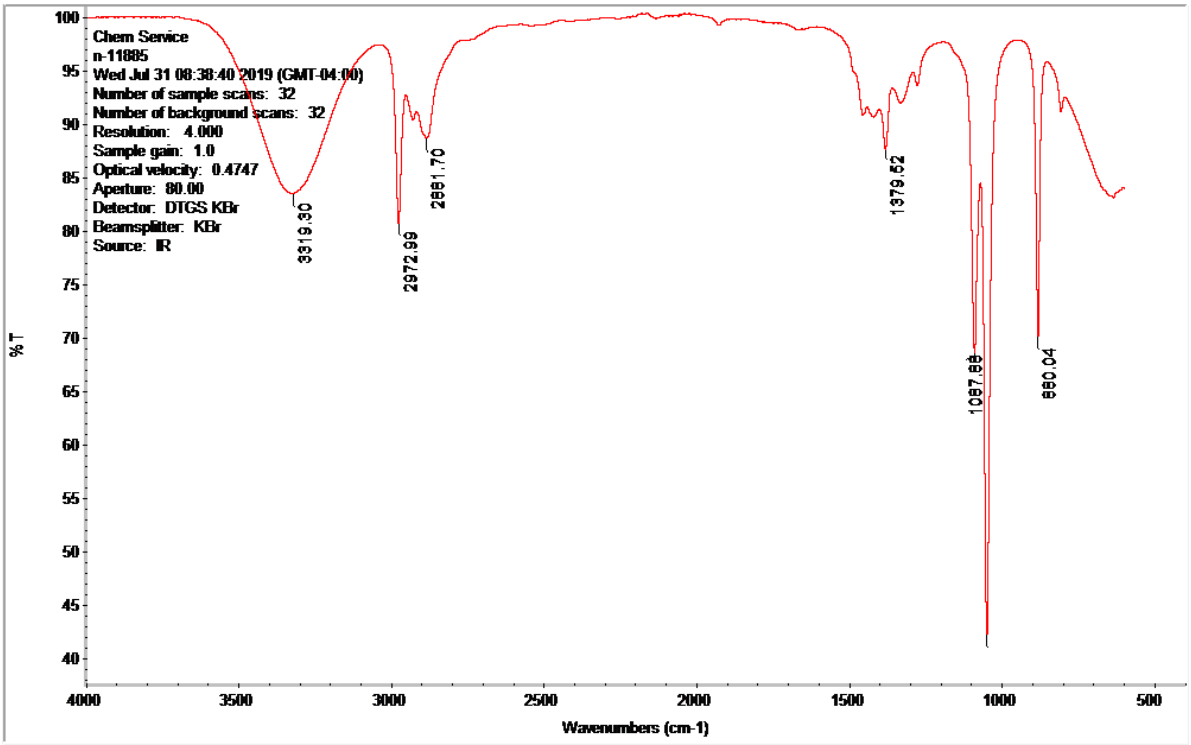
CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number: N-11885-1G
Description: Ethyl alcohol
Lot Number: 13347300
Expiration Date: 08/30/25



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

Reagent

MSV_M_MIX1SEC_00095

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110 Benner Circle
Bellefonte, PA 16823-8812
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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. : 577493 **Lot No.:** A0184354

Description : Custom VOC MegaMix®.SEC #1 Standard

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

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

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

Ship: Ambient

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

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

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

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

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

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

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

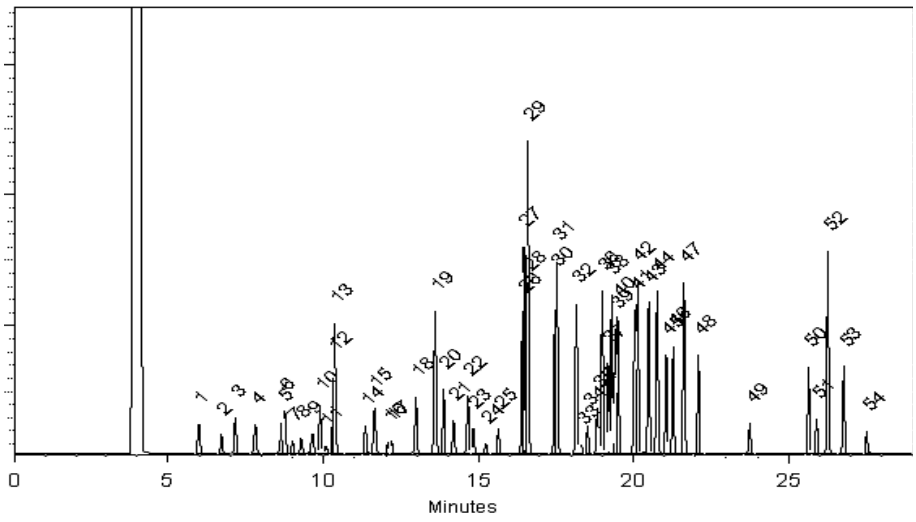
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Katelyn McGinni - Operations Tech I

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

Marlina Cowan - Operations Tech I

Date Passed: 27-Apr-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_M_MIX1SEC_00101

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Custom VOC MegaMix®.SEC #1 Standard

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

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

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

Ship: Ambient

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

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

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

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

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

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

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

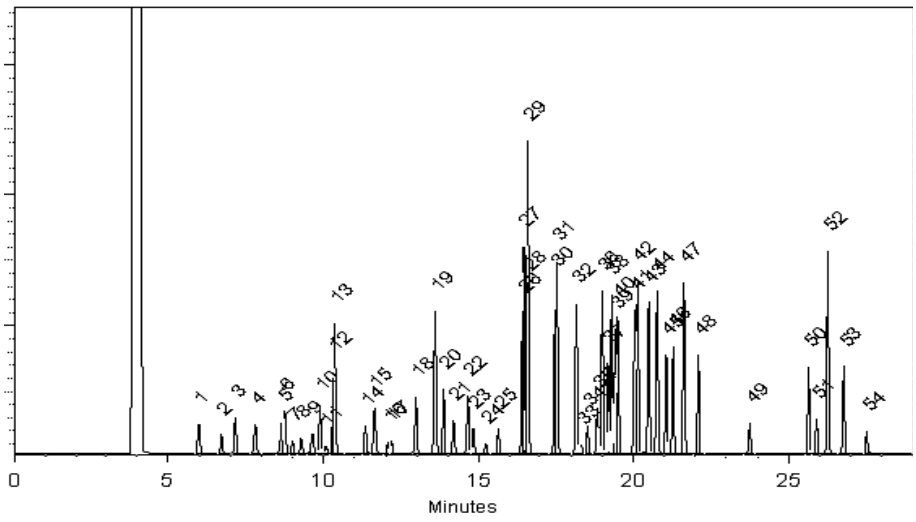
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Katelyn McGinni - Operations Tech I

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

Marlina Cowan - Operations Tech I

Date Passed: 27-Apr-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_M_MIX2SEC_00093

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Custom VOC MegaMix®.SEC #2 Standard

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

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

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

Ship: Ambient

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

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

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

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

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

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

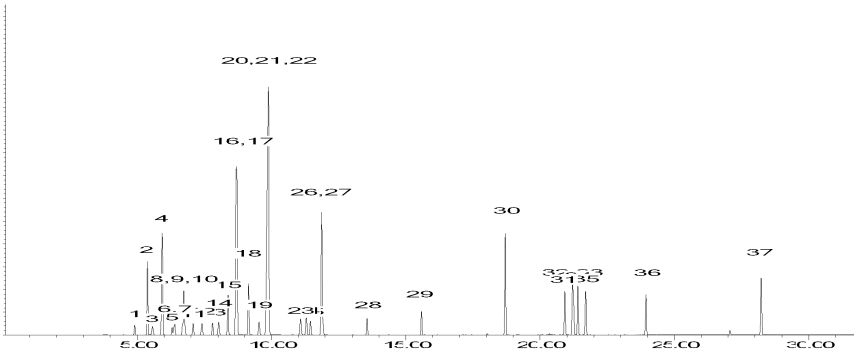
Carrier Gas:
helium-constant pressure 30 psi

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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

Lane Kibe - Mix Technician

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

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 27-Apr-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_M_MIX2SEC_00098

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Custom VOC MegaMix®.SEC #2 Standard

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

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

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

Ship: Ambient

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

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

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

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

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

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

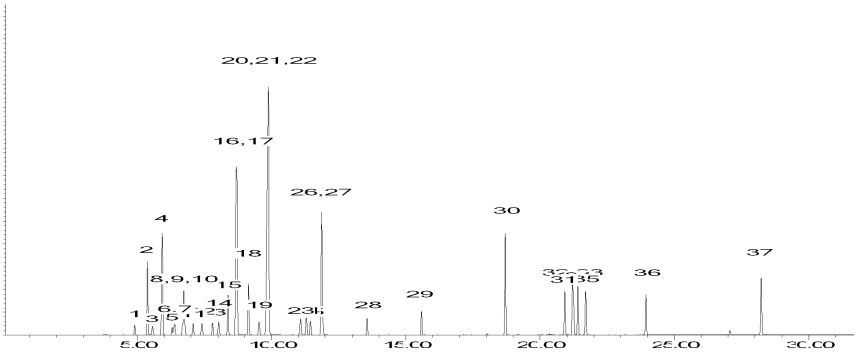
Carrier Gas:
helium-constant pressure 30 psi

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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

Lane Kibe - Mix Technician

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

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 27-Apr-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_MegaMIX#1_00094

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

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577486 **Lot No.:** A0171634

Description : Custom VOC MegaMix® #1 Standard

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

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

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

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,1-dichloroethene	5,000.3 µg/mL	+/- 31.7051 µg/mL	Gravimetric
	CAS # 75-35-4 (Lot SHBK2437)		+/- 280.6478 µg/mL	Unstressed
	Purity 99%		+/- 287.2014 µg/mL	Stressed
2	Methylene chloride (dichloromethane)	5,000.3 µg/mL	+/- 31.7051 µg/mL	Gravimetric
	CAS # 75-09-2 (Lot SHBL6169)		+/- 280.6478 µg/mL	Unstressed
	Purity 99%		+/- 287.2014 µg/mL	Stressed
3	trans-1,2-Dichloroethene	5,000.3 µg/mL	+/- 31.7051 µg/mL	Gravimetric
	CAS # 156-60-5 (Lot MKBH9850V)		+/- 280.6478 µg/mL	Unstressed
	Purity 99%		+/- 287.2014 µg/mL	Stressed
4	1,1-Dichloroethane	5,000.8 µg/mL	+/- 31.7079 µg/mL	Gravimetric
	CAS # 75-34-3 (Lot 580900)		+/- 280.6723 µg/mL	Unstressed
	Purity 99%		+/- 287.2265 µg/mL	Stressed
5	2,2-Dichloropropane	5,000.8 µg/mL	+/- 31.8970 µg/mL	Gravimetric
	CAS # 594-20-7 (Lot RD201111)		+/- 280.6965 µg/mL	Unstressed
	Purity 99%		+/- 287.2503 µg/mL	Stressed
6	cis-1,2-Dichloroethene	5,000.6 µg/mL	+/- 31.8957 µg/mL	Gravimetric
	CAS # 156-59-2 (Lot MKCK1803)		+/- 280.6853 µg/mL	Unstressed
	Purity 99%		+/- 287.2388 µg/mL	Stressed
7	chloroform	5,000.6 µg/mL	+/- 31.7067 µg/mL	Gravimetric
	CAS # 67-66-3 (Lot SHBL6923)		+/- 280.6618 µg/mL	Unstressed
	Purity 99%		+/- 287.2158 µg/mL	Stressed

8	Bromochloromethane		5,000.9	µg/mL	+/-	31.8976	µg/mL	Gravimetric
	CAS # 74-97-5	(Lot 00008541)			+/-	280.7022	µg/mL	Unstressed
	Purity 99%				+/-	287.2560	µg/mL	Stressed
9	1,1,1-trichloroethane		5,000.1	µg/mL	+/-	31.7041	µg/mL	Gravimetric
	CAS # 71-55-6	(Lot 190123CG)			+/-	280.6383	µg/mL	Unstressed
	Purity 98%				+/-	287.1917	µg/mL	Stressed
10	1,1-Dichloropropene		5,000.9	µg/mL	+/-	31.8976	µg/mL	Gravimetric
	CAS # 563-58-6	(Lot 201106JLM)			+/-	280.7022	µg/mL	Unstressed
	Purity 99%				+/-	287.2560	µg/mL	Stressed
11	carbon tetrachloride		5,000.5	µg/mL	+/-	31.7063	µg/mL	Gravimetric
	CAS # 56-23-5	(Lot SHBJ2110)			+/-	280.6583	µg/mL	Unstressed
	Purity 99%				+/-	287.2122	µg/mL	Stressed
12	1,2-Dichloroethane		5,000.4	µg/mL	+/-	31.7059	µg/mL	Gravimetric
	CAS # 107-06-2	(Lot MKCM8716)			+/-	280.6548	µg/mL	Unstressed
	Purity 99%				+/-	287.2086	µg/mL	Stressed
13	Benzene		5,001.0	µg/mL	+/-	31.8982	µg/mL	Gravimetric
	CAS # 71-43-2	(Lot SHBM3620)			+/-	280.7078	µg/mL	Unstressed
	Purity 99%				+/-	287.2618	µg/mL	Stressed
14	Trichloroethene		5,000.8	µg/mL	+/-	31.7079	µg/mL	Gravimetric
	CAS # 79-01-6	(Lot SHBL5816)			+/-	280.6723	µg/mL	Unstressed
	Purity 99%				+/-	287.2265	µg/mL	Stressed
15	1,2-Dichloropropane		5,001.1	µg/mL	+/-	31.7099	µg/mL	Gravimetric
	CAS # 78-87-5	(Lot BCBR0882V)			+/-	280.6899	µg/mL	Unstressed
	Purity 99%				+/-	287.2445	µg/mL	Stressed
16	bromodichloromethane		5,000.2	µg/mL	+/-	31.7043	µg/mL	Gravimetric
	CAS # 75-27-4	(Lot MKCK3742)			+/-	280.6408	µg/mL	Unstressed
	Purity 99%				+/-	287.1942	µg/mL	Stressed
17	Dibromomethane		5,000.2	µg/mL	+/-	31.8931	µg/mL	Gravimetric
	CAS # 74-95-3	(Lot 10215970)			+/-	280.6629	µg/mL	Unstressed
	Purity 99%				+/-	287.2158	µg/mL	Stressed
18	cis-1,3-Dichloropropene		5,001.9	µg/mL	+/-	31.7154	µg/mL	Gravimetric
	CAS # 10061-01-5	(Lot D26147-1217)			+/-	280.7390	µg/mL	Unstressed
	Purity 99%				+/-	287.2947	µg/mL	Stressed
19	Toluene		5,001.3	µg/mL	+/-	31.9001	µg/mL	Gravimetric
	CAS # 108-88-3	(Lot SHBM6128)			+/-	280.7246	µg/mL	Unstressed
	Purity 99%				+/-	287.2790	µg/mL	Stressed
20	trans-1,3-Dichloropropene		5,000.5	µg/mL	+/-	31.7063	µg/mL	Gravimetric
	CAS # 10061-02-6	(Lot RP201030)			+/-	280.6583	µg/mL	Unstressed
	Purity 99%				+/-	287.2122	µg/mL	Stressed
21	1,1,2-Trichloroethane		5,000.9	µg/mL	+/-	31.7087	µg/mL	Gravimetric
	CAS # 79-00-5	(Lot FGB01)			+/-	280.6794	µg/mL	Unstressed
	Purity 99%				+/-	287.2337	µg/mL	Stressed
22	1,3-Dichloropropane		5,000.5	µg/mL	+/-	31.8950	µg/mL	Gravimetric
	CAS # 142-28-9	(Lot BCBC6265)			+/-	280.6797	µg/mL	Unstressed
	Purity 99%				+/-	287.2331	µg/mL	Stressed
23	Tetrachloroethene		5,000.8	µg/mL	+/-	31.7079	µg/mL	Gravimetric
	CAS # 127-18-4	(Lot SHBJ7422)			+/-	280.6723	µg/mL	Unstressed
	Purity 99%				+/-	287.2265	µg/mL	Stressed

24	dibromochloromethane		5,001.1	µg/mL	+/-	31.7099	µg/mL	Gravimetric
	CAS # 124-48-1	(Lot MKCK6472)			+/-	280.6899	µg/mL	Unstressed
	Purity 99%				+/-	287.2445	µg/mL	Stressed
25	1,2-Dibromoethane (EDB)		5,000.5	µg/mL	+/-	31.8950	µg/mL	Gravimetric
	CAS # 106-93-4	(Lot BCBP2268V)			+/-	280.6797	µg/mL	Unstressed
	Purity 99%				+/-	287.2331	µg/mL	Stressed
26	Chlorobenzene		5,000.2	µg/mL	+/-	31.7043	µg/mL	Gravimetric
	CAS # 108-90-7	(Lot SHBL8110)			+/-	280.6408	µg/mL	Unstressed
	Purity 99%				+/-	287.1942	µg/mL	Stressed
27	1,1,1,2-Tetrachloroethane		5,000.9	µg/mL	+/-	31.8976	µg/mL	Gravimetric
	CAS # 630-20-6	(Lot GC01)			+/-	280.7022	µg/mL	Unstressed
	Purity 99%				+/-	287.2560	µg/mL	Stressed
28	Ethylbenzene		5,000.8	µg/mL	+/-	31.8970	µg/mL	Gravimetric
	CAS # 100-41-4	(Lot SHBL9192)			+/-	280.6965	µg/mL	Unstressed
	Purity 99%				+/-	287.2503	µg/mL	Stressed
29	m-Xylene		5,001.8	µg/mL	+/-	31.9033	µg/mL	Gravimetric
	CAS # 108-38-3	(Lot SHBM4841)			+/-	280.7527	µg/mL	Unstressed
	Purity 99%				+/-	287.3077	µg/mL	Stressed
30	p-Xylene		5,000.5	µg/mL	+/-	31.8950	µg/mL	Gravimetric
	CAS # 106-42-3	(Lot SHBJ7329)			+/-	280.6797	µg/mL	Unstressed
	Purity 99%				+/-	287.2331	µg/mL	Stressed
31	o-Xylene		5,001.8	µg/mL	+/-	31.9035	µg/mL	Gravimetric
	CAS # 95-47-6	(Lot SHBL3963)			+/-	280.7539	µg/mL	Unstressed
	Purity 98%				+/-	287.3090	µg/mL	Stressed
32	Styrene		5,001.7	µg/mL	+/-	31.9027	µg/mL	Gravimetric
	CAS # 100-42-5	(Lot MKCM3200)			+/-	280.7471	µg/mL	Unstressed
	Purity 99%				+/-	287.3020	µg/mL	Stressed
33	Isopropylbenzene (cumene)		5,001.0	µg/mL	+/-	31.8982	µg/mL	Gravimetric
	CAS # 98-82-8	(Lot P15E008)			+/-	280.7078	µg/mL	Unstressed
	Purity 99%				+/-	287.2618	µg/mL	Stressed
34	bromoform		5,000.4	µg/mL	+/-	31.7055	µg/mL	Gravimetric
	CAS # 75-25-2	(Lot SHBJ4835)			+/-	280.6513	µg/mL	Unstressed
	Purity 99%				+/-	287.2050	µg/mL	Stressed
35	1,1,2,2-Tetrachloroethane		5,000.4	µg/mL	+/-	31.7059	µg/mL	Gravimetric
	CAS # 79-34-5	(Lot CFA4D)			+/-	280.6548	µg/mL	Unstressed
	Purity 99%				+/-	287.2086	µg/mL	Stressed
36	1,2,3-Trichloropropane		5,000.0	µg/mL	+/-	31.8918	µg/mL	Gravimetric
	CAS # 96-18-4	(Lot BCBH8722V)			+/-	280.6516	µg/mL	Unstressed
	Purity 99%				+/-	287.2044	µg/mL	Stressed
37	n-Propylbenzene		5,001.6	µg/mL	+/-	31.9021	µg/mL	Gravimetric
	CAS # 103-65-1	(Lot MKCM4174)			+/-	280.7414	µg/mL	Unstressed
	Purity 99%				+/-	287.2963	µg/mL	Stressed
38	Bromobenzene		5,001.1	µg/mL	+/-	31.8989	µg/mL	Gravimetric
	CAS # 108-86-1	(Lot WXBC5147V)			+/-	280.7134	µg/mL	Unstressed
	Purity 99%				+/-	287.2675	µg/mL	Stressed
39	1,3,5-Trimethylbenzene		5,001.6	µg/mL	+/-	31.9021	µg/mL	Gravimetric
	CAS # 108-67-8	(Lot BCCD0427)			+/-	280.7414	µg/mL	Unstressed
	Purity 99%				+/-	287.2963	µg/mL	Stressed

40	2-Chlorotoluene		5,000.2	µg/mL	+/-	31.8931	µg/mL	Gravimetric
	CAS # 95-49-8	(Lot MKCF5243)			+/-	280.6629	µg/mL	Unstressed
	Purity 99%				+/-	287.2158	µg/mL	Stressed
41	4-Chlorotoluene		5,000.1	µg/mL	+/-	31.8925	µg/mL	Gravimetric
	CAS # 106-43-4	(Lot MKCC8496)			+/-	280.6572	µg/mL	Unstressed
	Purity 99%				+/-	287.2101	µg/mL	Stressed
42	tert-Butylbenzene		5,001.3	µg/mL	+/-	31.9001	µg/mL	Gravimetric
	CAS # 98-06-6	(Lot STBJ1937)			+/-	280.7246	µg/mL	Unstressed
	Purity 99%				+/-	287.2790	µg/mL	Stressed
43	1,2,4-Trimethylbenzene		5,000.6	µg/mL	+/-	31.8960	µg/mL	Gravimetric
	CAS # 95-63-6	(Lot WXBC9428V)			+/-	280.6879	µg/mL	Unstressed
	Purity 98%				+/-	287.2415	µg/mL	Stressed
44	sec-Butylbenzene		5,000.2	µg/mL	+/-	31.8931	µg/mL	Gravimetric
	CAS # 135-98-8	(Lot MKCN2920)			+/-	280.6629	µg/mL	Unstressed
	Purity 99%				+/-	287.2158	µg/mL	Stressed
45	p-Isopropyltoluene (p-Cymene)		5,001.1	µg/mL	+/-	31.8989	µg/mL	Gravimetric
	CAS # 99-87-6	(Lot MKCN1411)			+/-	280.7134	µg/mL	Unstressed
	Purity 99%				+/-	287.2675	µg/mL	Stressed
46	1,3-Dichlorobenzene		5,000.5	µg/mL	+/-	31.7063	µg/mL	Gravimetric
	CAS # 541-73-1	(Lot BCBZ7498)			+/-	280.6583	µg/mL	Unstressed
	Purity 99%				+/-	287.2122	µg/mL	Stressed
47	1,4-Dichlorobenzene		5,000.8	µg/mL	+/-	31.7083	µg/mL	Gravimetric
	CAS # 106-46-7	(Lot MKBS4401V)			+/-	280.6759	µg/mL	Unstressed
	Purity 99%				+/-	287.2301	µg/mL	Stressed
48	n-Butylbenzene		5,001.6	µg/mL	+/-	31.9021	µg/mL	Gravimetric
	CAS # 104-51-8	(Lot 09804AE)			+/-	280.7414	µg/mL	Unstressed
	Purity 99%				+/-	287.2963	µg/mL	Stressed
49	1,2-Dichlorobenzene		5,000.1	µg/mL	+/-	31.7036	µg/mL	Gravimetric
	CAS # 95-50-1	(Lot SHBK7741)			+/-	280.6338	µg/mL	Unstressed
	Purity 99%				+/-	287.1871	µg/mL	Stressed
50	1,2-Dibromo-3-chloropropane		5,000.3	µg/mL	+/-	31.8935	µg/mL	Gravimetric
	CAS # 96-12-8	(Lot FBL01)			+/-	280.6658	µg/mL	Unstressed
	Purity 97%				+/-	287.2189	µg/mL	Stressed
51	1,2,4-Trichlorobenzene		5,000.8	µg/mL	+/-	31.8970	µg/mL	Gravimetric
	CAS # 120-82-1	(Lot SHBJ9215)			+/-	280.6965	µg/mL	Unstressed
	Purity 99%				+/-	287.2503	µg/mL	Stressed
52	Hexachlorobutadiene		5,001.3	µg/mL	+/-	31.9001	µg/mL	Gravimetric
	CAS # 87-68-3	(Lot 664800)			+/-	280.7246	µg/mL	Unstressed
	Purity 99%				+/-	287.2790	µg/mL	Stressed
53	Naphthalene		5,000.8	µg/mL	+/-	31.8970	µg/mL	Gravimetric
	CAS # 91-20-3	(Lot MKBZ8680V)			+/-	280.6965	µg/mL	Unstressed
	Purity 99%				+/-	287.2503	µg/mL	Stressed
54	1,2,3-Trichlorobenzene		5,000.4	µg/mL	+/-	31.8944	µg/mL	Gravimetric
	CAS # 87-61-6	(Lot MKBX7627V)			+/-	280.6741	µg/mL	Unstressed
	Purity 99%				+/-	287.2273	µg/mL	Stressed

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

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

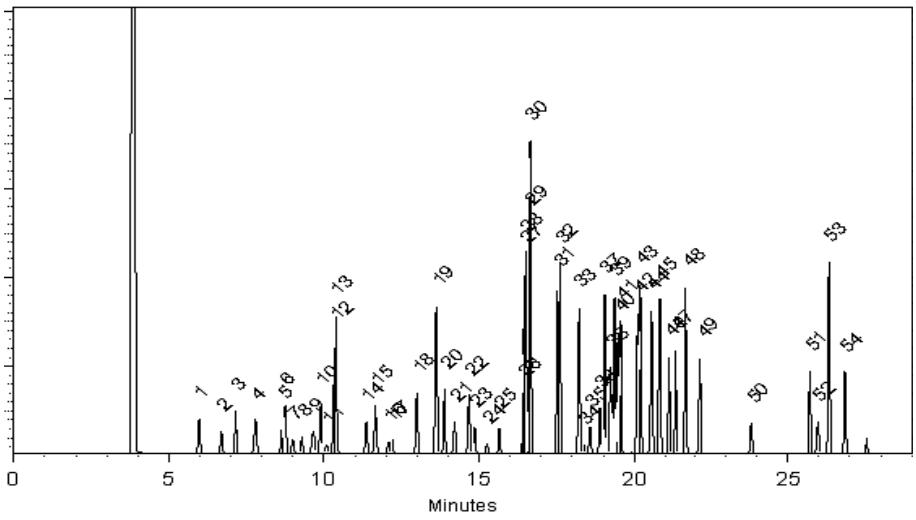
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Walker Workman - Operations Technician I

Date Mixed: 22-Apr-2021 **Balance:** 1128360905

Alexis Shelow - Operations Tech I

Date Passed: 26-Apr-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_MegaMIX#1_00099

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577486 **Lot No.:** A0184527

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, 2025 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,1-dichloroethene	5,048.5 µg/mL	+/- 35.8563 µg/mL	Gravimetric
	CAS # 75-35-4 (Lot SHBK2437)		+/- 283.8125 µg/mL	Unstressed
	Purity 99%		+/- 290.4188 µg/mL	Stressed
2	Methylene chloride (dichloromethane)	5,038.2 µg/mL	+/- 35.7831 µg/mL	Gravimetric
	CAS # 75-09-2 (Lot 218028)		+/- 283.2328 µg/mL	Unstressed
	Purity 99%		+/- 289.8256 µg/mL	Stressed
3	trans-1,2-Dichloroethene	5,048.7 µg/mL	+/- 35.8576 µg/mL	Gravimetric
	CAS # 156-60-5 (Lot MKBH9850V)		+/- 283.8231 µg/mL	Unstressed
	Purity 99%		+/- 290.4296 µg/mL	Stressed
4	1,1-Dichloroethane	5,046.4 µg/mL	+/- 35.8412 µg/mL	Gravimetric
	CAS # 75-34-3 (Lot 580900)		+/- 283.6931 µg/mL	Unstressed
	Purity 99%		+/- 290.2966 µg/mL	Stressed
5	2,2-Dichloropropane	5,049.3 µg/mL	+/- 36.0322 µg/mL	Gravimetric
	CAS # 594-20-7 (Lot RD220222)		+/- 283.8791 µg/mL	Unstressed
	Purity 99%		+/- 290.4859 µg/mL	Stressed
6	cis-1,2-Dichloroethene	5,049.4 µg/mL	+/- 36.0329 µg/mL	Gravimetric
	CAS # 156-59-2 (Lot MKCP7830)		+/- 283.8847 µg/mL	Unstressed
	Purity 99%		+/- 290.4917 µg/mL	Stressed
7	chloroform	5,045.8 µg/mL	+/- 35.8368 µg/mL	Gravimetric
	CAS # 67-66-3 (Lot SHBN8469)		+/- 283.6579 µg/mL	Unstressed
	Purity 99%		+/- 290.2606 µg/mL	Stressed

8	Bromochloromethane		5,049.4	µg/mL	+/-	36.0329	µg/mL	Gravimetric
	CAS # 74-97-5	(Lot 00008541)			+/-	283.8847	µg/mL	Unstressed
	Purity 99%				+/-	290.4917	µg/mL	Stressed
9	1,1,1-trichloroethane		5,044.1	µg/mL	+/-	35.8248	µg/mL	Gravimetric
	CAS # 71-55-6	(Lot RD220215)			+/-	283.5631	µg/mL	Unstressed
	Purity 99%				+/-	290.1636	µg/mL	Stressed
10	1,1-Dichloropropene		5,042.1	µg/mL	+/-	35.9808	µg/mL	Gravimetric
	CAS # 563-58-6	(Lot 220217JLM)			+/-	283.4743	µg/mL	Unstressed
	Purity 99%				+/-	290.0717	µg/mL	Stressed
11	carbon tetrachloride		5,046.6	µg/mL	+/-	35.8430	µg/mL	Gravimetric
	CAS # 56-23-5	(Lot SHBL8097)			+/-	283.7071	µg/mL	Unstressed
	Purity 99%				+/-	290.3110	µg/mL	Stressed
12	1,2-Dichloroethane		5,046.8	µg/mL	+/-	35.8439	µg/mL	Gravimetric
	CAS # 107-06-2	(Lot MKCN9758)			+/-	283.7142	µg/mL	Unstressed
	Purity 99%				+/-	290.3182	µg/mL	Stressed
13	Benzene		5,048.9	µg/mL	+/-	36.0293	µg/mL	Gravimetric
	CAS # 71-43-2	(Lot MKCM9242)			+/-	283.8566	µg/mL	Unstressed
	Purity 99%				+/-	290.4629	µg/mL	Stressed
14	Trichloroethene		5,049.6	µg/mL	+/-	35.8643	µg/mL	Gravimetric
	CAS # 79-01-6	(Lot SHBL5816)			+/-	283.8758	µg/mL	Unstressed
	Purity 99%				+/-	290.4835	µg/mL	Stressed
15	1,2-Dichloropropane		5,045.3	µg/mL	+/-	35.8337	µg/mL	Gravimetric
	CAS # 78-87-5	(Lot BCBR0882V)			+/-	283.6333	µg/mL	Unstressed
	Purity 99%				+/-	290.2355	µg/mL	Stressed
16	bromodichloromethane		5,047.1	µg/mL	+/-	35.8461	µg/mL	Gravimetric
	CAS # 75-27-4	(Lot MKCM7156)			+/-	283.7317	µg/mL	Unstressed
	Purity 99%				+/-	290.3361	µg/mL	Stressed
17	Dibromomethane		5,049.9	µg/mL	+/-	36.0365	µg/mL	Gravimetric
	CAS # 74-95-3	(Lot 10215970)			+/-	283.9128	µg/mL	Unstressed
	Purity 99%				+/-	290.5204	µg/mL	Stressed
18	cis-1,3-Dichloropropene		5,044.3	µg/mL	+/-	35.8261	µg/mL	Gravimetric
	CAS # 10061-01-5	(Lot RD211111)			+/-	283.5736	µg/mL	Unstressed
	Purity 99%				+/-	290.1743	µg/mL	Stressed
19	Toluene		5,048.6	µg/mL	+/-	36.0272	µg/mL	Gravimetric
	CAS # 108-88-3	(Lot MKCQ2779)			+/-	283.8397	µg/mL	Unstressed
	Purity 99%				+/-	290.4456	µg/mL	Stressed
20	trans-1,3-Dichloropropene		5,049.6	µg/mL	+/-	35.8639	µg/mL	Gravimetric
	CAS # 10061-02-6	(Lot RD220207A)			+/-	283.8728	µg/mL	Unstressed
	Purity 98%				+/-	290.4805	µg/mL	Stressed
21	1,1,2-Trichloroethane		5,048.6	µg/mL	+/-	35.8567	µg/mL	Gravimetric
	CAS # 79-00-5	(Lot FGB01)			+/-	283.8160	µg/mL	Unstressed
	Purity 99%				+/-	290.4224	µg/mL	Stressed
22	1,3-Dichloropropane		5,049.7	µg/mL	+/-	36.0350	µg/mL	Gravimetric
	CAS # 142-28-9	(Lot BCCB9817)			+/-	283.9016	µg/mL	Unstressed
	Purity 99%				+/-	290.5089	µg/mL	Stressed
23	Tetrachloroethene		5,049.5	µg/mL	+/-	35.8634	µg/mL	Gravimetric
	CAS # 127-18-4	(Lot SHBJ7422)			+/-	283.8688	µg/mL	Unstressed
	Purity 99%				+/-	290.4763	µg/mL	Stressed

24	dibromochloromethane		5,048.9	µg/mL	+/-	35.8590	µg/mL	Gravimetric
	CAS # 124-48-1	(Lot MKCM8659)			+/-	283.8336	µg/mL	Unstressed
	Purity 99%				+/-	290.4404	µg/mL	Stressed
25	1,2-Dibromoethane (EDB)		5,048.0	µg/mL	+/-	36.0229	µg/mL	Gravimetric
	CAS # 106-93-4	(Lot BCBP2268V)			+/-	283.8060	µg/mL	Unstressed
	Purity 99%				+/-	290.4111	µg/mL	Stressed
26	Chlorobenzene		5,047.7	µg/mL	+/-	35.8505	µg/mL	Gravimetric
	CAS # 108-90-7	(Lot SHBL8110)			+/-	283.7669	µg/mL	Unstressed
	Purity 99%				+/-	290.3721	µg/mL	Stressed
27	1,1,1,2-Tetrachloroethane		5,049.1	µg/mL	+/-	36.0308	µg/mL	Gravimetric
	CAS # 630-20-6	(Lot GC01)			+/-	283.8678	µg/mL	Unstressed
	Purity 99%				+/-	290.4744	µg/mL	Stressed
28	Ethylbenzene		5,049.7	µg/mL	+/-	36.0350	µg/mL	Gravimetric
	CAS # 100-41-4	(Lot SHBM4308)			+/-	283.9016	µg/mL	Unstressed
	Purity 99%				+/-	290.5089	µg/mL	Stressed
29	m-Xylene		5,048.2	µg/mL	+/-	36.0243	µg/mL	Gravimetric
	CAS # 108-38-3	(Lot SHBM4841)			+/-	283.8172	µg/mL	Unstressed
	Purity 99%				+/-	290.4226	µg/mL	Stressed
30	p-Xylene		5,046.5	µg/mL	+/-	36.0122	µg/mL	Gravimetric
	CAS # 106-42-3	(Lot 10234437)			+/-	283.7216	µg/mL	Unstressed
	Purity 99%				+/-	290.3248	µg/mL	Stressed
31	o-Xylene		5,049.3	µg/mL	+/-	36.0322	µg/mL	Gravimetric
	CAS # 95-47-6	(Lot SHBM0472)			+/-	283.8791	µg/mL	Unstressed
	Purity 99%				+/-	290.4859	µg/mL	Stressed
32	Styrene		5,049.0	µg/mL	+/-	36.0301	µg/mL	Gravimetric
	CAS # 100-42-5	(Lot MKCP3941)			+/-	283.8622	µg/mL	Unstressed
	Purity 99%				+/-	290.4686	µg/mL	Stressed
33	Isopropylbenzene (cumene)		5,046.5	µg/mL	+/-	36.0122	µg/mL	Gravimetric
	CAS # 98-82-8	(Lot Z20D022)			+/-	283.7216	µg/mL	Unstressed
	Purity 99%				+/-	290.3248	µg/mL	Stressed
34	bromoform		5,045.7	µg/mL	+/-	35.8365	µg/mL	Gravimetric
	CAS # 75-25-2	(Lot SHBK4455)			+/-	283.6559	µg/mL	Unstressed
	Purity 98%				+/-	290.2585	µg/mL	Stressed
35	1,1,2,2-Tetrachloroethane		5,045.8	µg/mL	+/-	35.8368	µg/mL	Gravimetric
	CAS # 79-34-5	(Lot CFA4D)			+/-	283.6579	µg/mL	Unstressed
	Purity 99%				+/-	290.2606	µg/mL	Stressed
36	1,2,3-Trichloropropane		5,049.4	µg/mL	+/-	36.0329	µg/mL	Gravimetric
	CAS # 96-18-4	(Lot 332900)			+/-	283.8847	µg/mL	Unstressed
	Purity 99%				+/-	290.4917	µg/mL	Stressed
37	n-Propylbenzene		5,044.7	µg/mL	+/-	35.9994	µg/mL	Gravimetric
	CAS # 103-65-1	(Lot MKCM4174)			+/-	283.6204	µg/mL	Unstressed
	Purity 99%				+/-	290.2213	µg/mL	Stressed
38	Bromobenzene		5,047.8	µg/mL	+/-	36.0215	µg/mL	Gravimetric
	CAS # 108-86-1	(Lot WXBC5147V)			+/-	283.7947	µg/mL	Unstressed
	Purity 99%				+/-	290.3996	µg/mL	Stressed
39	1,3,5-Trimethylbenzene		5,046.6	µg/mL	+/-	36.0129	µg/mL	Gravimetric
	CAS # 108-67-8	(Lot BCCD0427)			+/-	283.7273	µg/mL	Unstressed
	Purity 99%				+/-	290.3306	µg/mL	Stressed

40	2-Chlorotoluene		5,049.7	µg/mL	+/-	36.0350	µg/mL	Gravimetric
	CAS # 95-49-8	(Lot MKCF5243)			+/-	283.9016	µg/mL	Unstressed
	Purity 99%				+/-	290.5089	µg/mL	Stressed
41	4-Chlorotoluene		5,047.7	µg/mL	+/-	36.0208	µg/mL	Gravimetric
	CAS # 106-43-4	(Lot MKCC8496)			+/-	283.7891	µg/mL	Unstressed
	Purity 99%				+/-	290.3939	µg/mL	Stressed
42	tert-Butylbenzene		5,048.3	µg/mL	+/-	36.0251	µg/mL	Gravimetric
	CAS # 98-06-6	(Lot STBJ1937)			+/-	283.8228	µg/mL	Unstressed
	Purity 99%				+/-	290.4284	µg/mL	Stressed
43	1,2,4-Trimethylbenzene		5,048.0	µg/mL	+/-	36.0228	µg/mL	Gravimetric
	CAS # 95-63-6	(Lot WXBC9428V)			+/-	283.8049	µg/mL	Unstressed
	Purity 98%				+/-	290.4100	µg/mL	Stressed
44	sec-Butylbenzene		5,045.8	µg/mL	+/-	36.0072	µg/mL	Gravimetric
	CAS # 135-98-8	(Lot MKCN2920)			+/-	283.6823	µg/mL	Unstressed
	Purity 99%				+/-	290.2846	µg/mL	Stressed
45	p-Isopropyltoluene (p-Cymene)		5,048.3	µg/mL	+/-	36.0251	µg/mL	Gravimetric
	CAS # 99-87-6	(Lot MKCP6638)			+/-	283.8228	µg/mL	Unstressed
	Purity 99%				+/-	290.4284	µg/mL	Stressed
46	1,3-Dichlorobenzene		5,045.8	µg/mL	+/-	35.8368	µg/mL	Gravimetric
	CAS # 541-73-1	(Lot BCBZ7498)			+/-	283.6579	µg/mL	Unstressed
	Purity 99%				+/-	290.2606	µg/mL	Stressed
47	1,4-Dichlorobenzene		5,018.0	µg/mL	+/-	35.6397	µg/mL	Gravimetric
	CAS # 106-46-7	(Lot MKBS4401V)			+/-	282.0979	µg/mL	Unstressed
	Purity 99%				+/-	288.6643	µg/mL	Stressed
48	n-Butylbenzene		5,045.6	µg/mL	+/-	36.0058	µg/mL	Gravimetric
	CAS # 104-51-8	(Lot 09418JJ)			+/-	283.6710	µg/mL	Unstressed
	Purity 99%				+/-	290.2730	µg/mL	Stressed
49	1,2-Dichlorobenzene		5,045.0	µg/mL	+/-	35.8314	µg/mL	Gravimetric
	CAS # 95-50-1	(Lot SHBN3835)			+/-	283.6158	µg/mL	Unstressed
	Purity 99%				+/-	290.2175	µg/mL	Stressed
50	1,2-Dibromo-3-chloropropane		5,046.4	µg/mL	+/-	36.0117	µg/mL	Gravimetric
	CAS # 96-12-8	(Lot HBMVB)			+/-	283.7174	µg/mL	Unstressed
	Purity 97%				+/-	290.3205	µg/mL	Stressed
51	1,2,4-Trichlorobenzene		5,049.9	µg/mL	+/-	36.0365	µg/mL	Gravimetric
	CAS # 120-82-1	(Lot SHBM0526)			+/-	283.9128	µg/mL	Unstressed
	Purity 99%				+/-	290.5204	µg/mL	Stressed
52	Hexachlorobutadiene		5,043.1	µg/mL	+/-	35.9880	µg/mL	Gravimetric
	CAS # 87-68-3	(Lot X05J)			+/-	283.5305	µg/mL	Unstressed
	Purity 99%				+/-	290.1292	µg/mL	Stressed
53	Naphthalene		5,047.6	µg/mL	+/-	36.0201	µg/mL	Gravimetric
	CAS # 91-20-3	(Lot MKCH0219)			+/-	283.7835	µg/mL	Unstressed
	Purity 99%				+/-	290.3881	µg/mL	Stressed
54	1,2,3-Trichlorobenzene		5,047.7	µg/mL	+/-	36.0208	µg/mL	Gravimetric
	CAS # 87-61-6	(Lot MKBX7627V)			+/-	283.7891	µg/mL	Unstressed
	Purity 99%				+/-	290.3939	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)

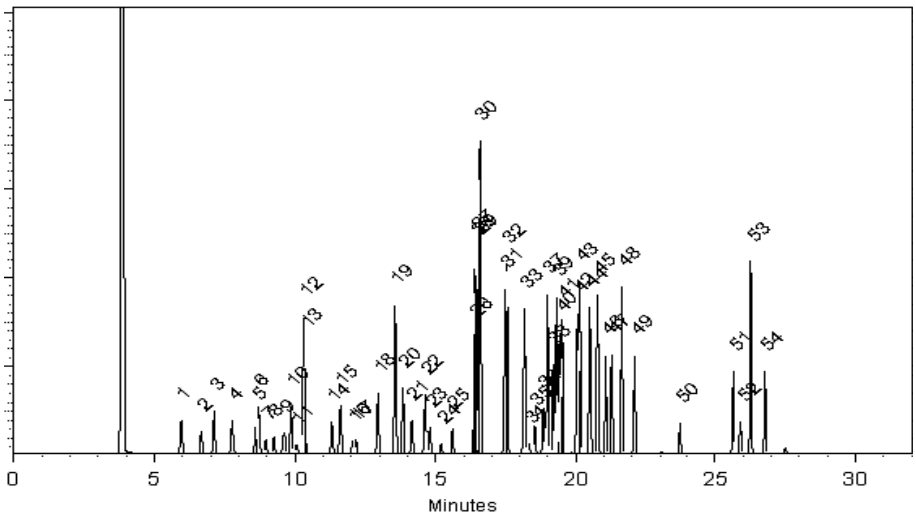
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Bethany Lowery - Operations Tech I

Date Mixed: 26-Apr-2022 **Balance:** B251644995

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 28-Apr-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_MegaMix#2_00091

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577487 **Lot No.:** A0173454

Description : Custom VOC MegaMix® #2 Standard

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

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

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

Ship: Ambient

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

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	n-Pentane (C5)	5,000.8 µg/mL	+/- 34.9563 µg/mL	Gravimetric
	CAS # 109-66-0 (Lot SHBM6577)		+/- 248.1404 µg/mL	Unstressed
	Purity 99%		+/- 254.2734 µg/mL	Stressed
2	2-Propanol (isopropanol)	25,000.0 µg/mL	+/- 146.3805 µg/mL	Gravimetric
	CAS # 67-63-0 (Lot SHBH7211)		+/- 1,236.8175 µg/mL	Unstressed
	Purity 99%		+/- 1,267.5661 µg/mL	Stressed
3	1,1,2-Trichlorotrifluoroethane (CFC-113)	5,000.0 µg/mL	+/- 34.9505 µg/mL	Gravimetric
	CAS # 76-13-1 (Lot 00016133)		+/- 248.0991 µg/mL	Unstressed
	Purity 99%		+/- 254.2310 µg/mL	Stressed
4	tert-Butanol (TBA)	25,010.0 µg/mL	+/- 146.4390 µg/mL	Gravimetric
	CAS # 75-65-0 (Lot SHBM7694)		+/- 1,237.3122 µg/mL	Unstressed
	Purity 99%		+/- 1,268.0731 µg/mL	Stressed
5	Methyl acetate	5,000.2 µg/mL	+/- 34.9516 µg/mL	Gravimetric
	CAS # 79-20-9 (Lot SHBM1320)		+/- 248.1073 µg/mL	Unstressed
	Purity 99%		+/- 254.2395 µg/mL	Stressed
6	Iodomethane (methyl iodide)	5,001.7 µg/mL	+/- 34.9621 µg/mL	Gravimetric
	CAS # 74-88-4 (Lot RD210503)		+/- 248.1818 µg/mL	Unstressed
	Purity 99%		+/- 254.3157 µg/mL	Stressed
7	Allyl chloride (3-chloropropene)	5,000.7 µg/mL	+/- 34.9551 µg/mL	Gravimetric
	CAS # 107-05-1 (Lot RD210402)		+/- 248.1321 µg/mL	Unstressed
	Purity 99%		+/- 254.2649 µg/mL	Stressed

8	Carbon disulfide		5,004.2	µg/mL	+/-	34.9796	µg/mL	Gravimetric
	CAS # 75-15-0	(Lot N28F701)			+/-	248.3058	µg/mL	Unstressed
	Purity 99%				+/-	254.4428	µg/mL	Stressed
9	Acrylonitrile		12,506.0	µg/mL	+/-	73.2254	µg/mL	Gravimetric
	CAS # 107-13-1	(Lot M25F024)			+/-	618.7056	µg/mL	Unstressed
	Purity 99%				+/-	634.0873	µg/mL	Stressed
10	Methyl-tert-butyl ether (MTBE)		5,000.8	µg/mL	+/-	34.9563	µg/mL	Gravimetric
	CAS # 1634-04-4	(Lot SHBM3541)			+/-	248.1404	µg/mL	Unstressed
	Purity 99%				+/-	254.2734	µg/mL	Stressed
11	n-Hexane (C6)		5,000.5	µg/mL	+/-	34.9540	µg/mL	Gravimetric
	CAS # 110-54-3	(Lot SHBL9879)			+/-	248.1239	µg/mL	Unstressed
	Purity 99%				+/-	254.2564	µg/mL	Stressed
12	Diisopropyl ether (DIPE)		5,003.3	µg/mL	+/-	34.9738	µg/mL	Gravimetric
	CAS # 108-20-3	(Lot SHBH1927V)			+/-	248.2645	µg/mL	Unstressed
	Purity 99%				+/-	254.4005	µg/mL	Stressed
13	Chloroprene (2-chloro-1,3-butadiene)		5,001.2	µg/mL	+/-	34.9586	µg/mL	Gravimetric
	CAS # 126-99-8	(Lot 210413JLM)			+/-	248.1570	µg/mL	Unstressed
	Purity 99%				+/-	254.2903	µg/mL	Stressed
14	Ethyl-tert-butyl ether (ETBE)		5,001.7	µg/mL	+/-	34.9621	µg/mL	Gravimetric
	CAS # 637-92-3	(Lot MKCM3774)			+/-	248.1818	µg/mL	Unstressed
	Purity 99%				+/-	254.3157	µg/mL	Stressed
15	Propionitrile		25,006.7	µg/mL	+/-	146.4195	µg/mL	Gravimetric
	CAS # 107-12-0	(Lot BCCC1173)			+/-	1,237.1473	µg/mL	Unstressed
	Purity 99%				+/-	1,267.9041	µg/mL	Stressed
16	Methacrylonitrile		12,500.7	µg/mL	+/-	73.1942	µg/mL	Gravimetric
	CAS # 126-98-7	(Lot 1012020)			+/-	618.4417	µg/mL	Unstressed
	Purity 99%				+/-	633.8168	µg/mL	Stressed
17	Isobutanol (2-Methyl-1-propanol)		62,500.7	µg/mL	+/-	365.9551	µg/mL	Gravimetric
	CAS # 78-83-1	(Lot SHBM4836)			+/-	3,092.0767	µg/mL	Unstressed
	Purity 99%				+/-	3,168.9490	µg/mL	Stressed
18	Tetrahydrofuran		25,010.0	µg/mL	+/-	146.4390	µg/mL	Gravimetric
	CAS # 109-99-9	(Lot SHBM8962)			+/-	1,237.3122	µg/mL	Unstressed
	Purity 99%				+/-	1,268.0731	µg/mL	Stressed
19	Cyclohexane		5,001.7	µg/mL	+/-	34.9621	µg/mL	Gravimetric
	CAS # 110-82-7	(Lot MKCF5831)			+/-	248.1818	µg/mL	Unstressed
	Purity 99%				+/-	254.3157	µg/mL	Stressed
20	1-Butanol		62,504.0	µg/mL	+/-	365.9747	µg/mL	Gravimetric
	CAS # 71-36-3	(Lot SHBM5061)			+/-	3,092.2416	µg/mL	Unstressed
	Purity 99%				+/-	3,169.1180	µg/mL	Stressed
21	tert-Amyl methyl ether (TAME)		5,001.7	µg/mL	+/-	34.9621	µg/mL	Gravimetric
	CAS # 994-05-8	(Lot HMBG7745V)			+/-	248.1818	µg/mL	Unstressed
	Purity 99%				+/-	254.3157	µg/mL	Stressed
22	n-Heptane (C7)		5,002.3	µg/mL	+/-	34.9668	µg/mL	Gravimetric
	CAS # 142-82-5	(Lot SHBL9221)			+/-	248.2148	µg/mL	Unstressed
	Purity 99%				+/-	254.3496	µg/mL	Stressed
23	tert-Amyl ethyl ether (TAEE)		5,000.2	µg/mL	+/-	34.9516	µg/mL	Gravimetric
	CAS # 919-94-8	(Lot 76U3A)			+/-	248.1073	µg/mL	Unstressed
	Purity 99%				+/-	254.2395	µg/mL	Stressed

24	Methylcyclohexane		5,000.2	µg/mL	+/-	34.9516	µg/mL	Gravimetric
	CAS # 108-87-2	(Lot SHBL0078)			+/-	248.1073	µg/mL	Unstressed
	Purity 99%				+/-	254.2395	µg/mL	Stressed
25	Methyl methacrylate		5,001.0	µg/mL	+/-	34.9574	µg/mL	Gravimetric
	CAS # 80-62-6	(Lot MKCN3027)			+/-	248.1487	µg/mL	Unstressed
	Purity 99%				+/-	254.2818	µg/mL	Stressed
26	1,4-Dioxane		62,503.3	µg/mL	+/-	365.9708	µg/mL	Gravimetric
	CAS # 123-91-1	(Lot SHBM5092)			+/-	3,092.2086	µg/mL	Unstressed
	Purity 99%				+/-	3,169.0842	µg/mL	Stressed
27	2-Nitropropane		25,000.8	µg/mL	+/-	146.3851	µg/mL	Gravimetric
	CAS # 79-46-9	(Lot BCCB9352)			+/-	1,236.8561	µg/mL	Unstressed
	Purity 97%				+/-	1,267.6056	µg/mL	Stressed
28	Ethyl methacrylate		5,000.8	µg/mL	+/-	34.9563	µg/mL	Gravimetric
	CAS # 97-63-2	(Lot MKCL0907)			+/-	248.1404	µg/mL	Unstressed
	Purity 99%				+/-	254.2734	µg/mL	Stressed
29	1-Chlorohexane		5,000.0	µg/mL	+/-	34.9502	µg/mL	Gravimetric
	CAS # 544-10-5	(Lot BCBS3368V)			+/-	248.0971	µg/mL	Unstressed
	Purity 98%				+/-	254.2290	µg/mL	Stressed
30	trans-1,4-dichloro-2-butene		12,510.9	µg/mL	+/-	73.2539	µg/mL	Gravimetric
	CAS # 110-57-6	(Lot RD210617)			+/-	618.9463	µg/mL	Unstressed
	Purity 95%				+/-	634.3340	µg/mL	Stressed
31	1,2,3-Trimethylbenzene		5,000.0	µg/mL	+/-	34.9502	µg/mL	Gravimetric
	CAS # 526-73-8	(Lot 8776.10-36)			+/-	248.0971	µg/mL	Unstressed
	Purity 98%				+/-	254.2290	µg/mL	Stressed
32	1,3-Diethylbenzene		5,000.9	µg/mL	+/-	34.9570	µg/mL	Gravimetric
	CAS # 141-93-5	(Lot BCBT8967)			+/-	248.1457	µg/mL	Unstressed
	Purity 98%				+/-	254.2788	µg/mL	Stressed
33	Benzyl chloride		5,000.8	µg/mL	+/-	34.9563	µg/mL	Gravimetric
	CAS # 100-44-7	(Lot SHBH2102V)			+/-	248.1404	µg/mL	Unstressed
	Purity 99%				+/-	254.2734	µg/mL	Stressed
34	1,4-Diethylbenzene		5,001.4	µg/mL	+/-	34.9605	µg/mL	Gravimetric
	CAS # 105-05-5	(Lot RLHJK)			+/-	248.1700	µg/mL	Unstressed
	Purity 98%				+/-	254.3037	µg/mL	Stressed
35	1,2-Diethylbenzene		5,000.5	µg/mL	+/-	34.9540	µg/mL	Gravimetric
	CAS # 135-01-3	(Lot ECH2970181)			+/-	248.1239	µg/mL	Unstressed
	Purity 99%				+/-	254.2564	µg/mL	Stressed
36	1,3,5-Trichlorobenzene		5,000.2	µg/mL	+/-	34.9516	µg/mL	Gravimetric
	CAS # 108-70-3	(Lot 11319AS)			+/-	248.1073	µg/mL	Unstressed
	Purity 99%				+/-	254.2395	µg/mL	Stressed
37	2-Methylnaphthalene		5,001.0	µg/mL	+/-	34.9574	µg/mL	Gravimetric
	CAS # 91-57-6	(Lot STBG8884)			+/-	248.1487	µg/mL	Unstressed
	Purity 99%				+/-	254.2818	µg/mL	Stressed

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

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

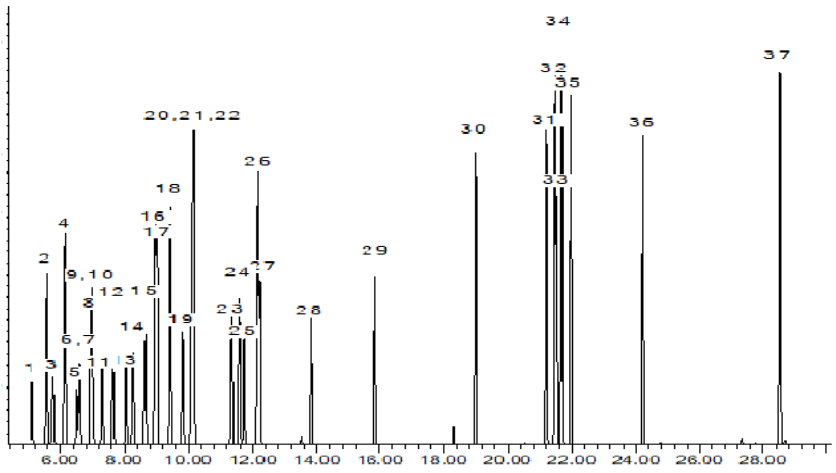
Carrier Gas:
helium-constant pressure 30 psi

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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

Russ Bookhamer - Operations Technician I

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

Alexis Shelow - Operations Tech I

Date Passed: 30-Jun-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_MegaMix#2_00096

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577487 **Lot No.:** A0173454

Description : Custom VOC MegaMix® #2 Standard

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

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

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

Ship: Ambient

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

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	n-Pentane (C5)	5,000.8 µg/mL	+/- 34.9563 µg/mL	Gravimetric
	CAS # 109-66-0 (Lot SHBM6577)		+/- 248.1404 µg/mL	Unstressed
	Purity 99%		+/- 254.2734 µg/mL	Stressed
2	2-Propanol (isopropanol)	25,000.0 µg/mL	+/- 146.3805 µg/mL	Gravimetric
	CAS # 67-63-0 (Lot SHBH7211)		+/- 1,236.8175 µg/mL	Unstressed
	Purity 99%		+/- 1,267.5661 µg/mL	Stressed
3	1,1,2-Trichlorotrifluoroethane (CFC-113)	5,000.0 µg/mL	+/- 34.9505 µg/mL	Gravimetric
	CAS # 76-13-1 (Lot 00016133)		+/- 248.0991 µg/mL	Unstressed
	Purity 99%		+/- 254.2310 µg/mL	Stressed
4	tert-Butanol (TBA)	25,010.0 µg/mL	+/- 146.4390 µg/mL	Gravimetric
	CAS # 75-65-0 (Lot SHBM7694)		+/- 1,237.3122 µg/mL	Unstressed
	Purity 99%		+/- 1,268.0731 µg/mL	Stressed
5	Methyl acetate	5,000.2 µg/mL	+/- 34.9516 µg/mL	Gravimetric
	CAS # 79-20-9 (Lot SHBM1320)		+/- 248.1073 µg/mL	Unstressed
	Purity 99%		+/- 254.2395 µg/mL	Stressed
6	Iodomethane (methyl iodide)	5,001.7 µg/mL	+/- 34.9621 µg/mL	Gravimetric
	CAS # 74-88-4 (Lot RD210503)		+/- 248.1818 µg/mL	Unstressed
	Purity 99%		+/- 254.3157 µg/mL	Stressed
7	Allyl chloride (3-chloropropene)	5,000.7 µg/mL	+/- 34.9551 µg/mL	Gravimetric
	CAS # 107-05-1 (Lot RD210402)		+/- 248.1321 µg/mL	Unstressed
	Purity 99%		+/- 254.2649 µg/mL	Stressed

8	Carbon disulfide		5,004.2	µg/mL	+/-	34.9796	µg/mL	Gravimetric
	CAS # 75-15-0	(Lot N28F701)			+/-	248.3058	µg/mL	Unstressed
	Purity 99%				+/-	254.4428	µg/mL	Stressed
9	Acrylonitrile		12,506.0	µg/mL	+/-	73.2254	µg/mL	Gravimetric
	CAS # 107-13-1	(Lot M25F024)			+/-	618.7056	µg/mL	Unstressed
	Purity 99%				+/-	634.0873	µg/mL	Stressed
10	Methyl-tert-butyl ether (MTBE)		5,000.8	µg/mL	+/-	34.9563	µg/mL	Gravimetric
	CAS # 1634-04-4	(Lot SHBM3541)			+/-	248.1404	µg/mL	Unstressed
	Purity 99%				+/-	254.2734	µg/mL	Stressed
11	n-Hexane (C6)		5,000.5	µg/mL	+/-	34.9540	µg/mL	Gravimetric
	CAS # 110-54-3	(Lot SHBL9879)			+/-	248.1239	µg/mL	Unstressed
	Purity 99%				+/-	254.2564	µg/mL	Stressed
12	Diisopropyl ether (DIPE)		5,003.3	µg/mL	+/-	34.9738	µg/mL	Gravimetric
	CAS # 108-20-3	(Lot SHBH1927V)			+/-	248.2645	µg/mL	Unstressed
	Purity 99%				+/-	254.4005	µg/mL	Stressed
13	Chloroprene (2-chloro-1,3-butadiene)		5,001.2	µg/mL	+/-	34.9586	µg/mL	Gravimetric
	CAS # 126-99-8	(Lot 210413JLM)			+/-	248.1570	µg/mL	Unstressed
	Purity 99%				+/-	254.2903	µg/mL	Stressed
14	Ethyl-tert-butyl ether (ETBE)		5,001.7	µg/mL	+/-	34.9621	µg/mL	Gravimetric
	CAS # 637-92-3	(Lot MKCM3774)			+/-	248.1818	µg/mL	Unstressed
	Purity 99%				+/-	254.3157	µg/mL	Stressed
15	Propionitrile		25,006.7	µg/mL	+/-	146.4195	µg/mL	Gravimetric
	CAS # 107-12-0	(Lot BCCC1173)			+/-	1,237.1473	µg/mL	Unstressed
	Purity 99%				+/-	1,267.9041	µg/mL	Stressed
16	Methacrylonitrile		12,500.7	µg/mL	+/-	73.1942	µg/mL	Gravimetric
	CAS # 126-98-7	(Lot 1012020)			+/-	618.4417	µg/mL	Unstressed
	Purity 99%				+/-	633.8168	µg/mL	Stressed
17	Isobutanol (2-Methyl-1-propanol)		62,500.7	µg/mL	+/-	365.9551	µg/mL	Gravimetric
	CAS # 78-83-1	(Lot SHBM4836)			+/-	3,092.0767	µg/mL	Unstressed
	Purity 99%				+/-	3,168.9490	µg/mL	Stressed
18	Tetrahydrofuran		25,010.0	µg/mL	+/-	146.4390	µg/mL	Gravimetric
	CAS # 109-99-9	(Lot SHBM8962)			+/-	1,237.3122	µg/mL	Unstressed
	Purity 99%				+/-	1,268.0731	µg/mL	Stressed
19	Cyclohexane		5,001.7	µg/mL	+/-	34.9621	µg/mL	Gravimetric
	CAS # 110-82-7	(Lot MKCF5831)			+/-	248.1818	µg/mL	Unstressed
	Purity 99%				+/-	254.3157	µg/mL	Stressed
20	1-Butanol		62,504.0	µg/mL	+/-	365.9747	µg/mL	Gravimetric
	CAS # 71-36-3	(Lot SHBM5061)			+/-	3,092.2416	µg/mL	Unstressed
	Purity 99%				+/-	3,169.1180	µg/mL	Stressed
21	tert-Amyl methyl ether (TAME)		5,001.7	µg/mL	+/-	34.9621	µg/mL	Gravimetric
	CAS # 994-05-8	(Lot HMBG7745V)			+/-	248.1818	µg/mL	Unstressed
	Purity 99%				+/-	254.3157	µg/mL	Stressed
22	n-Heptane (C7)		5,002.3	µg/mL	+/-	34.9668	µg/mL	Gravimetric
	CAS # 142-82-5	(Lot SHBL9221)			+/-	248.2148	µg/mL	Unstressed
	Purity 99%				+/-	254.3496	µg/mL	Stressed
23	tert-Amyl ethyl ether (TAEE)		5,000.2	µg/mL	+/-	34.9516	µg/mL	Gravimetric
	CAS # 919-94-8	(Lot 76U3A)			+/-	248.1073	µg/mL	Unstressed
	Purity 99%				+/-	254.2395	µg/mL	Stressed

24	Methylcyclohexane		5,000.2	µg/mL	+/-	34.9516	µg/mL	Gravimetric
	CAS # 108-87-2	(Lot SHBL0078)			+/-	248.1073	µg/mL	Unstressed
	Purity 99%				+/-	254.2395	µg/mL	Stressed
25	Methyl methacrylate		5,001.0	µg/mL	+/-	34.9574	µg/mL	Gravimetric
	CAS # 80-62-6	(Lot MKCN3027)			+/-	248.1487	µg/mL	Unstressed
	Purity 99%				+/-	254.2818	µg/mL	Stressed
26	1,4-Dioxane		62,503.3	µg/mL	+/-	365.9708	µg/mL	Gravimetric
	CAS # 123-91-1	(Lot SHBM5092)			+/-	3,092.2086	µg/mL	Unstressed
	Purity 99%				+/-	3,169.0842	µg/mL	Stressed
27	2-Nitropropane		25,000.8	µg/mL	+/-	146.3851	µg/mL	Gravimetric
	CAS # 79-46-9	(Lot BCCB9352)			+/-	1,236.8561	µg/mL	Unstressed
	Purity 97%				+/-	1,267.6056	µg/mL	Stressed
28	Ethyl methacrylate		5,000.8	µg/mL	+/-	34.9563	µg/mL	Gravimetric
	CAS # 97-63-2	(Lot MKCL0907)			+/-	248.1404	µg/mL	Unstressed
	Purity 99%				+/-	254.2734	µg/mL	Stressed
29	1-Chlorohexane		5,000.0	µg/mL	+/-	34.9502	µg/mL	Gravimetric
	CAS # 544-10-5	(Lot BCBS3368V)			+/-	248.0971	µg/mL	Unstressed
	Purity 98%				+/-	254.2290	µg/mL	Stressed
30	trans-1,4-dichloro-2-butene		12,510.9	µg/mL	+/-	73.2539	µg/mL	Gravimetric
	CAS # 110-57-6	(Lot RD210617)			+/-	618.9463	µg/mL	Unstressed
	Purity 95%				+/-	634.3340	µg/mL	Stressed
31	1,2,3-Trimethylbenzene		5,000.0	µg/mL	+/-	34.9502	µg/mL	Gravimetric
	CAS # 526-73-8	(Lot 8776.10-36)			+/-	248.0971	µg/mL	Unstressed
	Purity 98%				+/-	254.2290	µg/mL	Stressed
32	1,3-Diethylbenzene		5,000.9	µg/mL	+/-	34.9570	µg/mL	Gravimetric
	CAS # 141-93-5	(Lot BCBT8967)			+/-	248.1457	µg/mL	Unstressed
	Purity 98%				+/-	254.2788	µg/mL	Stressed
33	Benzyl chloride		5,000.8	µg/mL	+/-	34.9563	µg/mL	Gravimetric
	CAS # 100-44-7	(Lot SHBH2102V)			+/-	248.1404	µg/mL	Unstressed
	Purity 99%				+/-	254.2734	µg/mL	Stressed
34	1,4-Diethylbenzene		5,001.4	µg/mL	+/-	34.9605	µg/mL	Gravimetric
	CAS # 105-05-5	(Lot RLHJK)			+/-	248.1700	µg/mL	Unstressed
	Purity 98%				+/-	254.3037	µg/mL	Stressed
35	1,2-Diethylbenzene		5,000.5	µg/mL	+/-	34.9540	µg/mL	Gravimetric
	CAS # 135-01-3	(Lot ECH2970181)			+/-	248.1239	µg/mL	Unstressed
	Purity 99%				+/-	254.2564	µg/mL	Stressed
36	1,3,5-Trichlorobenzene		5,000.2	µg/mL	+/-	34.9516	µg/mL	Gravimetric
	CAS # 108-70-3	(Lot 11319AS)			+/-	248.1073	µg/mL	Unstressed
	Purity 99%				+/-	254.2395	µg/mL	Stressed
37	2-Methylnaphthalene		5,001.0	µg/mL	+/-	34.9574	µg/mL	Gravimetric
	CAS # 91-57-6	(Lot STBG8884)			+/-	248.1487	µg/mL	Unstressed
	Purity 99%				+/-	254.2818	µg/mL	Stressed

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

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

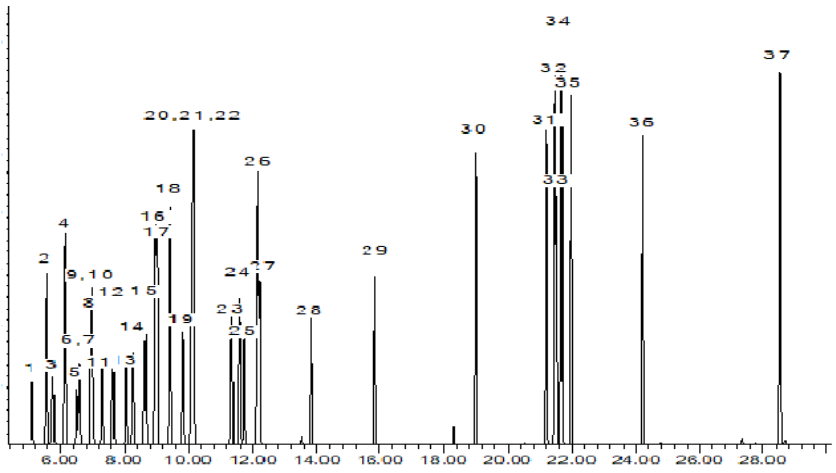
Carrier Gas:
helium-constant pressure 30 psi

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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

Russ Bookhamer - Operations Technician I

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

Alexis Shelow - Operations Tech I

Date Passed: 30-Jun-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_Q_Ketones_00092

110 Benner Circle
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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. : 569721.SEC **Lot No.:** A0178490

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

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

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

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

Ship: Ambient

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

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone	12,504.0 µg/mL	+/- 73.2137 µg/mL	Gravimetric
	CAS # 67-64-1.SEC (Lot S25F025)		+/- 754.4715 µg/mL	Unstressed
	Purity 99%		+/- 756.2625 µg/mL	Stressed
2	2-Butanone (MEK)	12,502.0 µg/mL	+/- 73.2020 µg/mL	Gravimetric
	CAS # 78-93-3.SEC (Lot RGZ2A)		+/- 754.3508 µg/mL	Unstressed
	Purity 99%		+/- 756.1415 µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	12,508.7 µg/mL	+/- 73.2410 µg/mL	Gravimetric
	CAS # 108-10-1.SEC (Lot E29T040)		+/- 754.7530 µg/mL	Unstressed
	Purity 99%		+/- 756.5447 µg/mL	Stressed
4	2-Hexanone	12,507.3 µg/mL	+/- 73.2332 µg/mL	Gravimetric
	CAS # 591-78-6.SEC (Lot Y3TUO)		+/- 754.6726 µg/mL	Unstressed
	Purity 99%		+/- 756.4641 µg/mL	Stressed

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

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

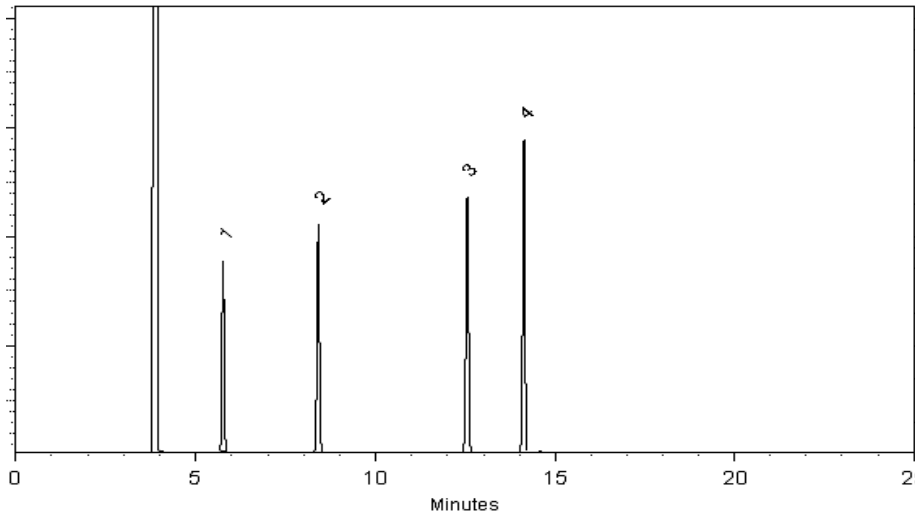
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Jeff Rhoades - Mix Technician

Date Mixed: 15-Nov-2021 **Balance:** 1127510105

Clara Windle - Operations Technician I

Date Passed: 16-Nov-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_Q_Ketones_00101

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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. : 569721.SEC **Lot No.:** A0178490

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

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

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

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

Ship: Ambient

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

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone	12,504.0 µg/mL	+/- 73.2137 µg/mL	Gravimetric
	CAS # 67-64-1.SEC (Lot S25F025)		+/- 754.4715 µg/mL	Unstressed
	Purity 99%		+/- 756.2625 µg/mL	Stressed
2	2-Butanone (MEK)	12,502.0 µg/mL	+/- 73.2020 µg/mL	Gravimetric
	CAS # 78-93-3.SEC (Lot RGZ2A)		+/- 754.3508 µg/mL	Unstressed
	Purity 99%		+/- 756.1415 µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	12,508.7 µg/mL	+/- 73.2410 µg/mL	Gravimetric
	CAS # 108-10-1.SEC (Lot E29T040)		+/- 754.7530 µg/mL	Unstressed
	Purity 99%		+/- 756.5447 µg/mL	Stressed
4	2-Hexanone	12,507.3 µg/mL	+/- 73.2332 µg/mL	Gravimetric
	CAS # 591-78-6.SEC (Lot Y3TUO)		+/- 754.6726 µg/mL	Unstressed
	Purity 99%		+/- 756.4641 µg/mL	Stressed

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

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

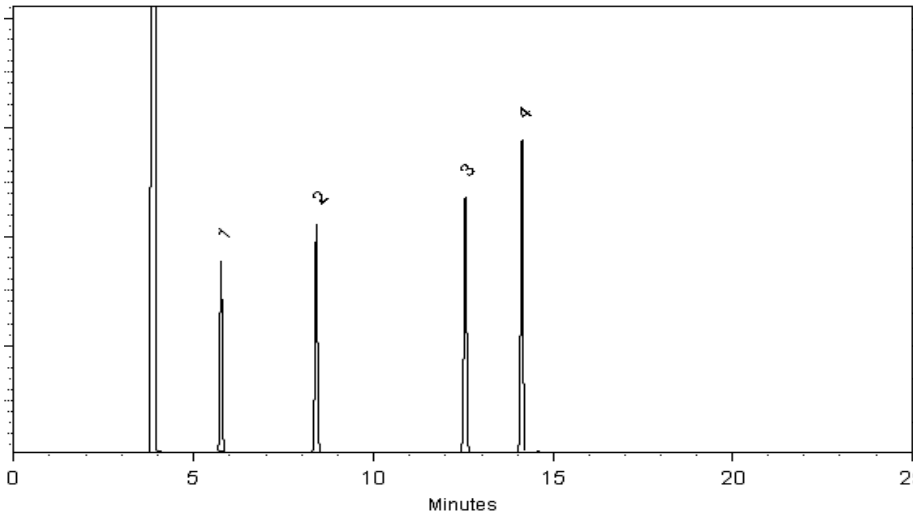
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Jeff Rhoades - Mix Technician

Date Mixed: 15-Nov-2021 **Balance:** 1127510105

Clara Windle - Operations Technician I

Date Passed: 16-Nov-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_QC_2K_GAS_00114

RESTEK
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Fax: (814)353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577488.SEC **Lot No.:** A0172021

Description : Custom Gases.SEC Standard

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

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

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

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dichlorodifluoromethane (CFC-12)	2,014.7 µg/mL	+/- 21.3347 µg/mL	Gravimetric
	CAS # 75-71-8.SEC (Lot 26871)		+/- 114.3626 µg/mL	Unstressed
	Purity 99%		+/- 116.9742 µg/mL	Stressed
2	Chloromethane (methyl chloride)	2,018.4 µg/mL	+/- 22.6573 µg/mL	Gravimetric
	CAS # 74-87-3.SEC (Lot 18343)		+/- 114.8157 µg/mL	Unstressed
	Purity 99%		+/- 117.4265 µg/mL	Stressed
3	Vinyl chloride	2,011.6 µg/mL	+/- 18.1502 µg/mL	Gravimetric
	CAS # 75-01-4.SEC (Lot MKBK6872V)		+/- 113.6387 µg/mL	Unstressed
	Purity 99%		+/- 116.2584 µg/mL	Stressed
4	1,3-Butadiene	2,020.9 µg/mL	+/- 15.6985 µg/mL	Gravimetric
	CAS # 106-99-0.SEC (Lot 26996)		+/- 113.7849 µg/mL	Unstressed
	Purity 99%		+/- 116.4253 µg/mL	Stressed
5	Bromomethane (methyl bromide)	2,014.3 µg/mL	+/- 52.5641 µg/mL	Gravimetric
	CAS # 74-83-9.SEC (Lot 00017022)		+/- 124.0186 µg/mL	Unstressed
	Purity 99%		+/- 126.4297 µg/mL	Stressed
6	Chloroethane (ethyl chloride)	2,009.7 µg/mL	+/- 28.6335 µg/mL	Gravimetric
	CAS # 75-00-3.SEC (Lot 00004202)		+/- 115.6738 µg/mL	Unstressed
	Purity 99%		+/- 118.2437 µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)	2,000.0 µg/mL	+/- 11.7371 µg/mL	Gravimetric
	CAS # 75-43-4 * (Lot 10930400)		+/- 112.1494 µg/mL	Unstressed
	Purity 99%		+/- 114.7730 µg/mL	Stressed

8	Trichlorofluoromethane (CFC-11)		2,010.6	µg/mL	+/-	32.3019	µg/mL	Gravimetric
	CAS # 75-69-4.SEC	(Lot 253600)			+/-	116.6827	µg/mL	Unstressed
	Purity 99%				+/-	119.2330	µg/mL	Stressed
9	1,2-Dichloro-1,1,2-trifluoroethane (CFC-123a)		2,020.4	µg/mL	+/-	21.8150	µg/mL	Gravimetric
	CAS # 354-23-4 *	(Lot Q9B-64)			+/-	114.7647	µg/mL	Unstressed
	Purity 99%				+/-	117.3819	µg/mL	Stressed

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

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

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

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

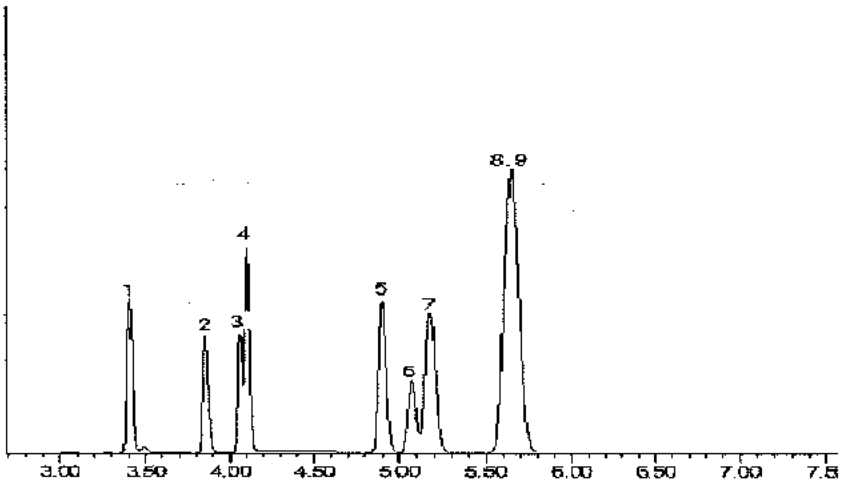
Carrier Gas:
helium-constant flow 2.0 mL/min.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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

Lane Kibe - Mix Technician

Date Mixed: 04-May-2021 **Balance:** 1127510105

Alexis Shelow - Operations Tech 1

Date Passed: 17-May-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_QC_2K_GAS_00119

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577488.SEC **Lot No.:** A0172021

Description : Custom Gases.SEC Standard

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

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

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

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dichlorodifluoromethane (CFC-12)	2,014.7 µg/mL	+/- 21.3347 µg/mL	Gravimetric
	CAS # 75-71-8.SEC (Lot 26871)		+/- 114.3626 µg/mL	Unstressed
	Purity 99%		+/- 116.9742 µg/mL	Stressed
2	Chloromethane (methyl chloride)	2,018.4 µg/mL	+/- 22.6573 µg/mL	Gravimetric
	CAS # 74-87-3.SEC (Lot 18343)		+/- 114.8157 µg/mL	Unstressed
	Purity 99%		+/- 117.4265 µg/mL	Stressed
3	Vinyl chloride	2,011.6 µg/mL	+/- 18.1502 µg/mL	Gravimetric
	CAS # 75-01-4.SEC (Lot MKBK6872V)		+/- 113.6387 µg/mL	Unstressed
	Purity 99%		+/- 116.2584 µg/mL	Stressed
4	1,3-Butadiene	2,020.9 µg/mL	+/- 15.6985 µg/mL	Gravimetric
	CAS # 106-99-0.SEC (Lot 26996)		+/- 113.7849 µg/mL	Unstressed
	Purity 99%		+/- 116.4253 µg/mL	Stressed
5	Bromomethane (methyl bromide)	2,014.3 µg/mL	+/- 52.5641 µg/mL	Gravimetric
	CAS # 74-83-9.SEC (Lot 00017022)		+/- 124.0186 µg/mL	Unstressed
	Purity 99%		+/- 126.4297 µg/mL	Stressed
6	Chloroethane (ethyl chloride)	2,009.7 µg/mL	+/- 28.6335 µg/mL	Gravimetric
	CAS # 75-00-3.SEC (Lot 00004202)		+/- 115.6738 µg/mL	Unstressed
	Purity 99%		+/- 118.2437 µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)	2,000.0 µg/mL	+/- 11.7371 µg/mL	Gravimetric
	CAS # 75-43-4 * (Lot 10930400)		+/- 112.1494 µg/mL	Unstressed
	Purity 99%		+/- 114.7730 µg/mL	Stressed

8	Trichlorofluoromethane (CFC-11)		2,010.6	µg/mL	+/- 32.3019	µg/mL	Gravimetric
	CAS # 75-69-4.SEC	(Lot 253600)			+/- 116.6827	µg/mL	Unstressed
	Purity 99%				+/- 119.2330	µg/mL	Stressed
9	1,2-Dichloro-1,1,2-trifluoroethane (CFC-123a)		2,020.4	µg/mL	+/- 21.8150	µg/mL	Gravimetric
	CAS # 354-23-4 *	(Lot Q9B-64)			+/- 114.7647	µg/mL	Unstressed
	Purity 99%				+/- 117.3819	µg/mL	Stressed

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

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

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

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

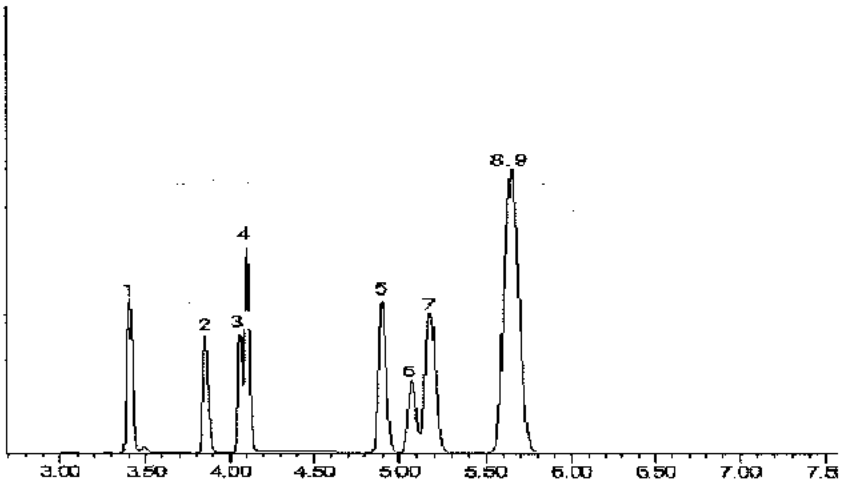
Carrier Gas:
helium-constant flow 2.0 mL/min.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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

Lane Kibe - Mix Technician

Date Mixed: 04-May-2021 **Balance:** 1127510105

Alexis Shelow - Operations Tech 1

Date Passed: 17-May-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_V#2B_00292

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

www.restek.com

Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 56734 **Lot No.:** A0184378

Description : Custom V # 2B Standard

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

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

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

Ship: Ambient

Elution Order	Compound	CAS #	Percent Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2-Propanol (isopropanol)	67-63-0	99%	25,003.0 µg/mL	+/- 146.3981 µg/mL
2	tert-Butanol (TBA)	75-65-0	99%	25,000.0 µg/mL	+/- 146.3805 µg/mL
3	Propionitrile	107-12-0	99%	25,003.0 µg/mL	+/- 146.3981 µg/mL
4	Methacrylonitrile	126-98-7	99%	12,502.0 µg/mL	+/- 73.2020 µg/mL
5	Isobutanol (2-Methyl-1-propanol)	78-83-1	99%	62,503.0 µg/mL	+/- 365.9688 µg/mL
6	1-Butanol	71-36-3	98%	124,982.3 µg/mL	+/- 731.7613 µg/mL
7	1,4-Dioxane	123-91-1	99%	62,530.0 µg/mL	+/- 366.1269 µg/mL
8	trans-1,4-dichloro-2-butene	110-57-6	95%	12,496.3 µg/mL	+/- 73.1686 µg/mL
Solvent:	P&T Methanol	67-56-1	99%		

Specific Reference Material Notes:

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

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

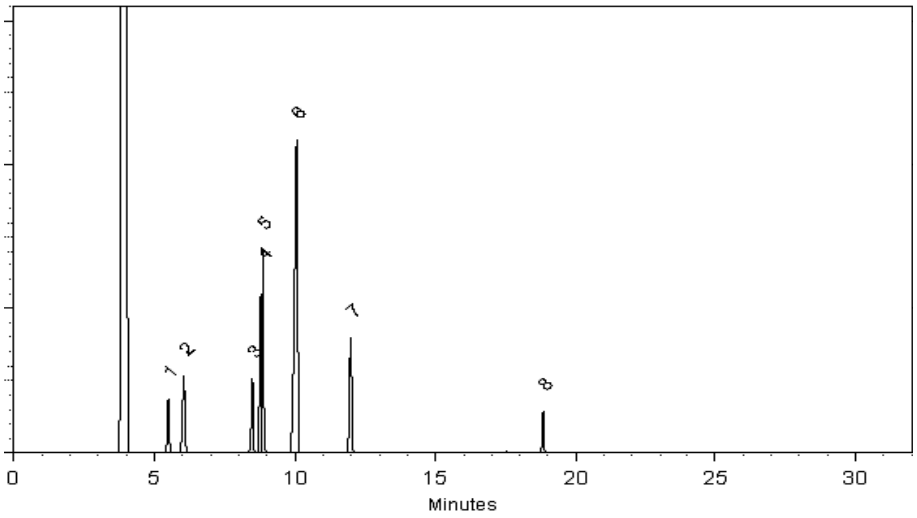
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Josh McCloskey - Operations Technician I

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

Christie Mills - Operations Technician II

Date Passed: 27-Apr-2022

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

General Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Uncertainty Value Notes:

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_V_2CLEVE_00093

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577492 **Lot No.:** A0171422

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, 2024 **Storage:** 0°C or colder

Ship: Ambient

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

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Chloroethyl vinyl ether	5,010.5 µg/mL	+/- 29.3376 µg/mL	Gravimetric
	CAS # 110-75-8 (Lot MKBS6526V)		+/- 107.3316 µg/mL	Unstressed
	Purity 99%		+/- 110.4487 µg/mL	Stressed

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.

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

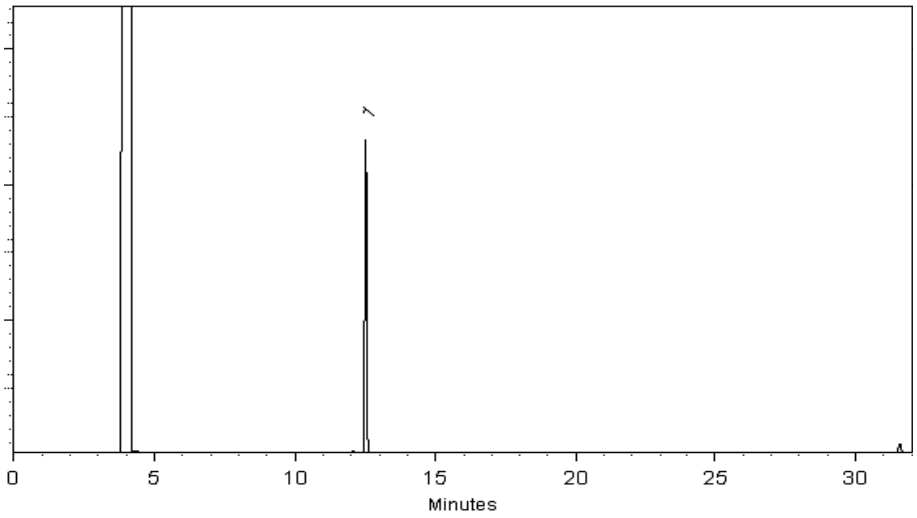
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Russ Bookhamer - Operations Technician I

Date Mixed: 16-Apr-2021 **Balance:** 1128360905

Marlina Cowan - Operations Tech I

Date Passed: 26-Apr-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 569721 **Lot No.:** A0174287

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

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

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

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

Ship: Ambient

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

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone	12,526.4 µg/mL	+/- 73.3448 µg/mL	Gravimetric
	CAS # 67-64-1 (Lot SHBN3661)		+/- 755.8230 µg/mL	Unstressed
	Purity 99%		+/- 757.6173 µg/mL	Stressed
2	2-Butanone (MEK)	12,543.6 µg/mL	+/- 73.4455 µg/mL	Gravimetric
	CAS # 78-93-3 (Lot SHBL5543)		+/- 756.8609 µg/mL	Unstressed
	Purity 99%		+/- 758.6575 µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	12,534.8 µg/mL	+/- 73.3940 µg/mL	Gravimetric
	CAS # 108-10-1 (Lot SHBM7956)		+/- 756.3299 µg/mL	Unstressed
	Purity 99%		+/- 758.1253 µg/mL	Stressed
4	2-Hexanone	12,617.6 µg/mL	+/- 73.8788 µg/mL	Gravimetric
	CAS # 591-78-6 (Lot MKCL1599)		+/- 761.3259 µg/mL	Unstressed
	Purity 99%		+/- 763.1332 µg/mL	Stressed

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

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

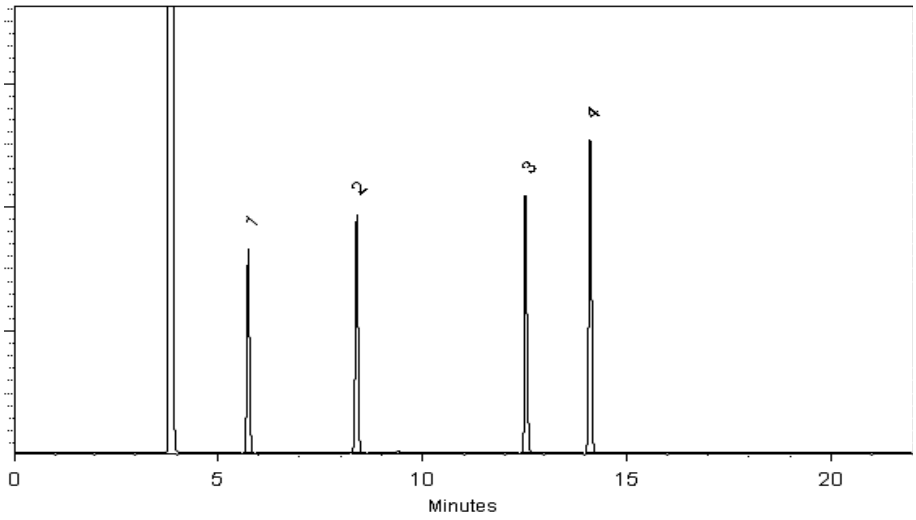
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Sam Moodler - Operations Tech I

Date Mixed: 11-Jul-2021 **Balance:** B707717271

Marlina Cowan - Operations Tech I

Date Passed: 13-Jul-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 569721 **Lot No.:** A0180742

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, 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	Acetone	12,524.0 µg/mL	+/- 73.3308 µg/mL	Gravimetric
	CAS # 67-64-1 (Lot MKCP0755)		+/- 755.6782 µg/mL	Unstressed
	Purity 99%		+/- 757.4721 µg/mL	Stressed
2	2-Butanone (MEK)	12,529.5 µg/mL	+/- 73.3630 µg/mL	Gravimetric
	CAS # 78-93-3 (Lot SHBN2844)		+/- 756.0101 µg/mL	Unstressed
	Purity 99%		+/- 757.8048 µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	12,541.5 µg/mL	+/- 73.4332 µg/mL	Gravimetric
	CAS # 108-10-1 (Lot SHBN3601)		+/- 756.7342 µg/mL	Unstressed
	Purity 99%		+/- 758.5305 µg/mL	Stressed
4	2-Hexanone	12,548.0 µg/mL	+/- 73.4713 µg/mL	Gravimetric
	CAS # 591-78-6 (Lot MKCL1599)		+/- 757.1264 µg/mL	Unstressed
	Purity 99%		+/- 758.9237 µg/mL	Stressed

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

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

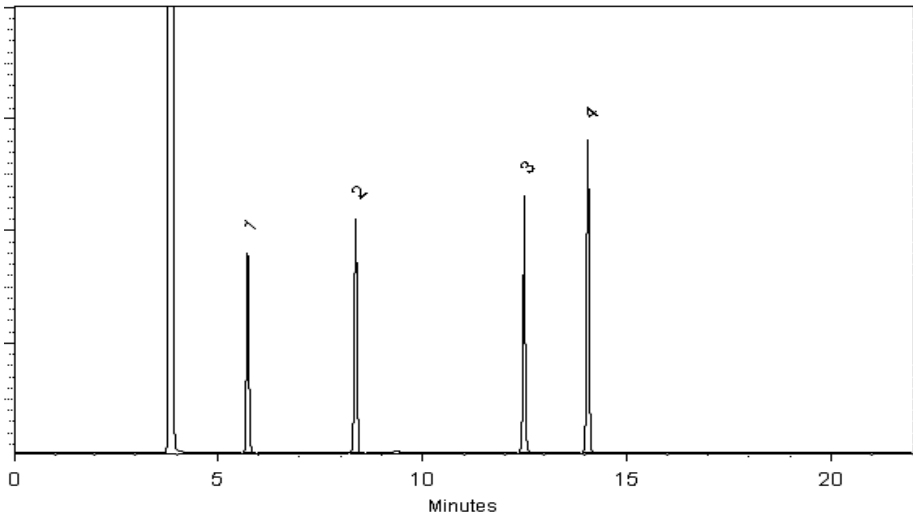
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Penelope Riglin - Operations Tech I

Date Mixed: 18-Jan-2022 **Balance:** B707717271

Marlina Cowan - Operations Tech I

Date Passed: 20-Jan-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577491 **Lot No.:** A0171341

Description : Custom Pentachloroethane Standard

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

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

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

Ship: Ambient

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

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Pentachloroethane	5,006.0 µg/mL	+/- 29.3780 µg/mL	Gravimetric
	CAS # 76-01-7 (Lot 10518800)		+/- 280.7099 µg/mL	Unstressed
	Purity 99%		+/- 287.2768 µg/mL	Stressed

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

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

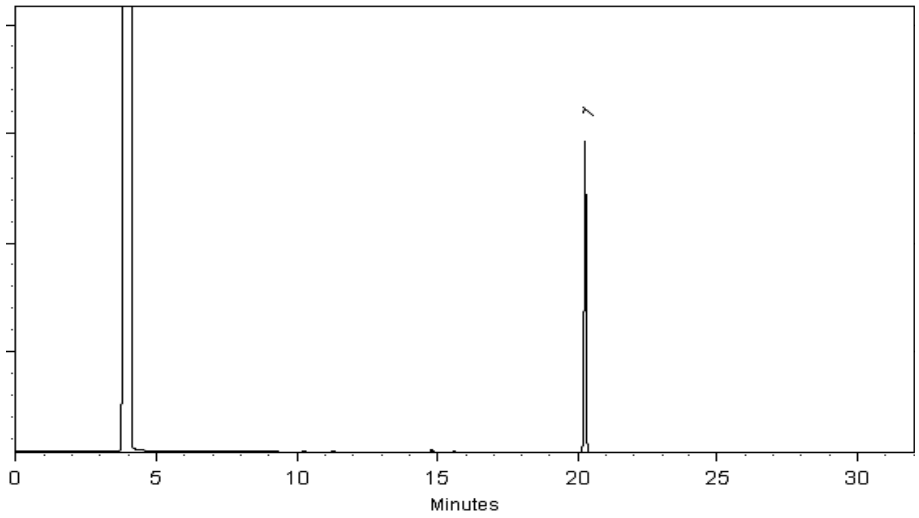
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Jeremy Warefield - Operations Tech I

Date Mixed: 14-Apr-2021 **Balance:** 1127510105

Alexis Shelow - Operations Tech I

Date Passed: 19-Apr-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

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Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 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)

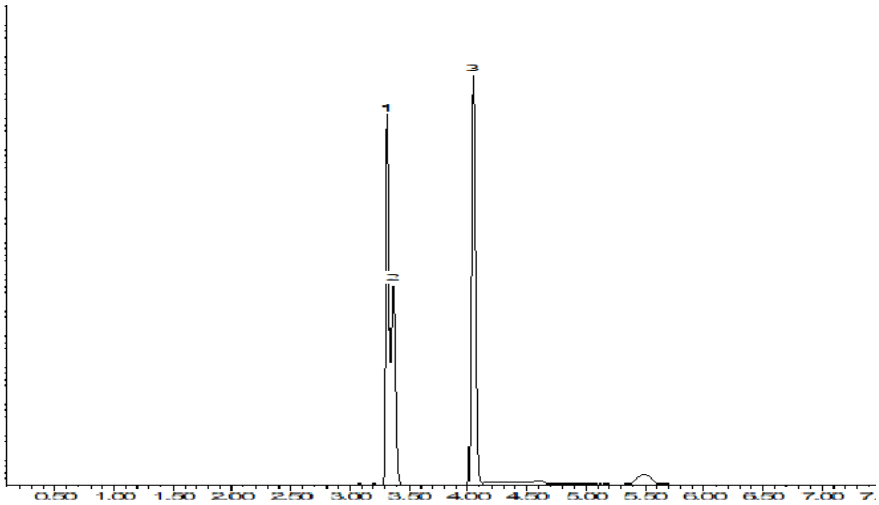
Carrier Gas:
helium-constant flow 2.0 mL/min.

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.

Reagent

OP_BEP_NEAT_00004

OR BEP-NEAT-00004

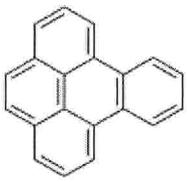
Sigma-Aldrich.

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:
Benzo[e]pyrene - 98%

Product Number:	**B10102**
Batch Number:	**MKCP5010**
Brand:	ALDRICH
CAS Number:	192-97-2
MDL Number:	MFCD00003605
Formula:	C20H12
Formula Weight:	252.31 g/mol
Quality Release Date:	24 MAY 2021



Test	Specification	Result
Appearance (Color) White to Yellow-Green to Orange	Conforms to Requirements	Light Orange
Appearance (Form)	Powder or Crystals	Powder
Infrared Spectrum	Conforms to Structure	Conforms
Purity (HPLC)	≥ 97.5 %	97.7 %
Solubility (Turbidity)	Clear to Very Slightly Hazy	Clear
Solubility (Color) c = 20 mg/mL, Toluene	Yellow to Yellow-Green	Green-Yellow

Michael Grady, Manager
Quality Control
Milwaukee, WI US

Reagent

OP_BNA_STK_00045

OP-BNA-STK-00045
OP-BNA-SS-00046

Agilent

Trusted Answers

ISO 17034

Reference Material Certificate

Product Information Sheet

Product Name: Custom Standard

Product Number: LAN-252

Storage Conditions: Store at Room Temperature (15° to 30°C).

Lot Number: 0006682928

Lot Issue Date: 12-May-2022

Expiration Date: 30-Jun-2024

2-fluorobiphenyl	100.3	±	0.5 µg/mL	000321-60-8	RM19298
nitrobenzene-d5	100.0	±	0.5 µg/mL	004165-60-0	RM15771
p-terphenyl-d14	100.2	±	0.5 µg/mL	001718-51-0	RM17200
2,4,6-tribromophenol	200.8	±	1.0 µg/mL	000118-79-6	RM10846
2-fluorophenol	200.9	±	1.0 µg/mL	000367-12-4	RM12613
phenol-d6	200.2	±	1.0 µg/mL	013127-88-3	RM18135
benzo[a]pyrene-d12	1.00	±	0.01 µg/mL	063466-71-7	RM18134
fluoranthene-d10	1.00	±	0.01 µg/mL	093951-69-0	RM13262
1-methylnaphthalene-d10	1.00	±	0.01 µg/mL	038072-94-5	RM03607

Matrix: methanol (methyl alcohol)

Description:
This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Reagent

OP_LCSmix2stk_00004

OP-LCSmix25K-00004
ST21326A

RESTEK® CERTIFIED REFERENCE MATERIAL

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Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 569732 **Lot No.:** A0172244

Description : 8270 List 1 / Std #11

8270 List 1 / Std #11 2,000µg/mL, Methylene chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : November 30, 2022 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Benzaldehyde **CAS #** 100-52-7 (Lot RD210106) **Purity** 99%	2,015.7 µg/mL	+/- 11.7193 µg/mL +/- 40.2434 µg/mL +/- 90.3286 µg/mL	Gravimetric Unstressed Stressed
2	epsilon-Caprolactam **CAS #** 105-60-2 (Lot I16X016) **Purity** 99%	2,008.5 µg/mL	+/- 11.6776 µg/mL +/- 40.1003 µg/mL +/- 90.0074 µg/mL	Gravimetric Unstressed Stressed
3	Atrazine **CAS #** 1912-24-9 (Lot PI8FG) **Purity** 99%	2,008.5 µg/mL	+/- 11.6776 µg/mL +/- 40.1003 µg/mL +/- 90.0074 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

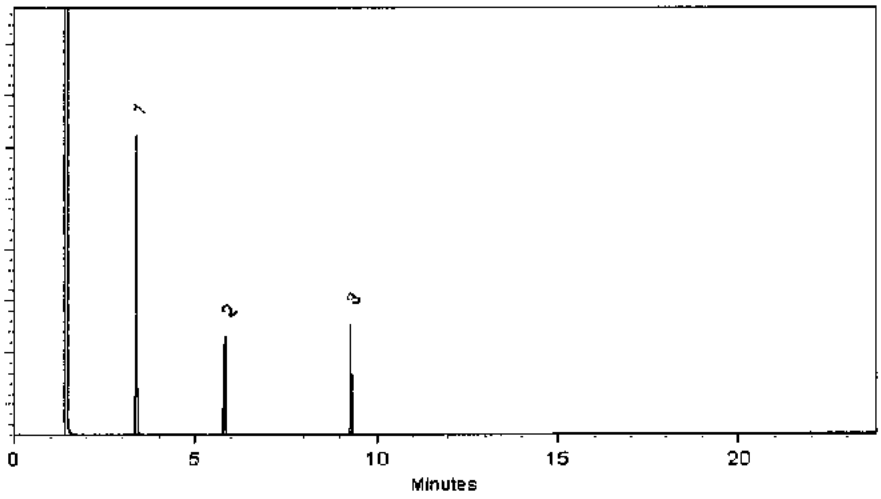
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



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

Sam Moodler - Operations Tech I

Date Mixed: 11-May-2021 **Balance:** 1128360905

Marlina Cowan - Operations Tech I

Date Passed: 12-May-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

OP_RES_APPX1_00008

OP-RES-APPX1-00008

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Tel: (800)356-1688
Fax: (814)353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 570667 **Lot No.:** A0187679

Description : 8270 Supplemental Standard #1

8270 Supplemental Standard #1 1,000µg/mL, Methylene chloride, 1mL/ampul
Also described as 8270 List 2 / Std #1

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

Expiration Date : July 31, 2023 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Picoline **CAS #** 109-06-8 (Lot STBD4888V) **Purity** 99%	1,001.3 µg/mL	+/- 5.9476 µg/mL +/- 12.0317 µg/mL +/- 19.0889 µg/mL	Gravimetric Unstressed Stressed
2	N-Nitrosomethylethylamine **CAS #** 10595-95-6 (Lot 13236100) **Purity** 99%	1,003.3 µg/mL	+/- 5.9595 µg/mL +/- 12.0557 µg/mL +/- 19.1270 µg/mL	Gravimetric Unstressed Stressed
3	Acrylamide **CAS #** 79-06-1 (Lot 01402JA) **Purity** 99%	1,000.0 µg/mL	+/- 5.9397 µg/mL +/- 12.0157 µg/mL +/- 19.0635 µg/mL	Gravimetric Unstressed Stressed
4	N-Nitrosodiethylamine **CAS #** 55-18-5 (Lot UT2EJ) **Purity** 99%	1,002.7 µg/mL	+/- 5.9555 µg/mL +/- 12.0477 µg/mL +/- 19.1143 µg/mL	Gravimetric Unstressed Stressed
5	N-Nitrosopyrrolidine **CAS #** 930-55-2 (Lot 35-SSR-30-1) **Purity** 99%	1,002.7 µg/mL	+/- 5.9555 µg/mL +/- 12.0477 µg/mL +/- 19.1143 µg/mL	Gravimetric Unstressed Stressed
6	o-Toluidine **CAS #** 95-53-4 (Lot 03417PZ) **Purity** 99%	1,002.0 µg/mL	+/- 5.9516 µg/mL +/- 12.0397 µg/mL +/- 19.1016 µg/mL	Gravimetric Unstressed Stressed
7	N-Nitrosomorpholine **CAS #** 59-89-2 (Lot GOJNI) **Purity** 99%	1,003.3 µg/mL	+/- 5.9595 µg/mL +/- 12.0557 µg/mL +/- 19.1270 µg/mL	Gravimetric Unstressed Stressed

8	N-Nitrosopiperidine **CAS #** 100-75-4 **Purity** 99%	(Lot 12724500)	1,002.7	µg/mL	+/- +/- +/-	5.9555 12.0477 19.1143	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	Phentermine (a,a-Dimethylphenethylamine) **CAS #** 122-09-8 **Purity** 98%	(Lot 220713RSR)	1,004.2	µg/mL	+/- +/- +/-	5.9645 12.0658 19.1430	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	Quinoline **CAS #** 91-22-5 **Purity** 99%	(Lot UU6EC)	1,002.0	µg/mL	+/- +/- +/-	5.9516 12.0397 19.1016	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
11	N-Nitrosodi-n-butylamine **CAS #** 924-16-3 **Purity** 99%	(Lot 7BSAG)	1,000.7	µg/mL	+/- +/- +/-	5.9437 12.0237 19.0762	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
12	1,4-Phenylenediamine **CAS #** 106-50-3 **Purity** 99%	(Lot 13110400)	1,000.0	µg/mL	+/- +/- +/-	5.9397 12.0157 19.0635	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
13	1,4-Dinitrobenzene **CAS #** 100-25-4 **Purity** 99%	(Lot STBF8844V)	1,001.3	µg/mL	+/- +/- +/-	5.9476 12.0317 19.0889	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
14	1-Naphthylamine (1-aminonaphthalene) **CAS #** 134-32-7 **Purity** 99%	(Lot R7NAN-IP)	1,002.0	µg/mL	+/- +/- +/-	5.9516 12.0397 19.1016	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
15	2-Naphthylamine (2-aminonaphthalene) **CAS #** 91-59-8 **Purity** 99%	(Lot SLCD9388)	1,000.7	µg/mL	+/- +/- +/-	5.9437 12.0237 19.0762	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
16	5-Nitro-o-toluidine **CAS #** 99-55-8 **Purity** 99%	(Lot H67GL)	1,002.0	µg/mL	+/- +/- +/-	5.9516 12.0397 19.1016	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
17	1,3,5-Trinitrobenzene **CAS #** 99-35-4 **Purity** 99%	(Lot A6TDK)	1,004.7	µg/mL	+/- +/- +/-	5.9674 12.0717 19.1524	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
18	Phenacetin **CAS #** 62-44-2 **Purity** 99%	(Lot 317935/11192)	1,002.0	µg/mL	+/- +/- +/-	5.9516 12.0397 19.1016	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
19	4-Aminobiphenyl **CAS #** 92-67-1 **Purity** 99%	(Lot SLCD6545)	1,002.0	µg/mL	+/- +/- +/-	5.9516 12.0397 19.1016	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
20	Propyzamide **CAS #** 23950-58-5 **Purity** 99%	(Lot 13291100)	1,004.0	µg/mL	+/- +/- +/-	5.9635 12.0637 19.1397	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
21	Pentachloronitrobenzene (quintozene) **CAS #** 82-68-8 **Purity** 98%	(Lot 9889800)	999.6	µg/mL	+/- +/- +/-	5.9373 12.0109 19.0558	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
22	4-Nitroquinoline-N-oxide **CAS #** 56-57-5 **Purity** 98%	(Lot WXBD5722V)	1,002.9	µg/mL	+/- +/- +/-	5.9567 12.0501 19.1181	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
23	p-Dimethylaminoazobenzene **CAS #** 60-11-7 **Purity** 98%	(Lot BCBP8840V)	1,001.6	µg/mL	+/- +/- +/-	5.9490 12.0344 19.0932	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

24	3,3'-Dimethylbenzidine (o-tolidine) **CAS #** 119-93-7 **Purity** 99%	(Lot ELVJM)	1,000.7	µg/mL	+/- 5.9437 +/- 12.0237 +/- 19.0762	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
25	2-Acetylaminofluorene **CAS #** 53-96-3 **Purity** 99%	(Lot WZDQE)	1,000.0	µg/mL	+/- 5.9397 +/- 12.0157 +/- 19.0635	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
26	4,4'-Methylene-bis(2-chloroaniline) **CAS #** 101-14-4 **Purity** 97%	(Lot RP220401)	999.7	µg/mL	+/- 5.9382 +/- 12.0126 +/- 19.0586	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
27	Dibenz(a,h)acridine **CAS #** 226-36-8 **Purity** 99%	(Lot 012016)	1,003.3	µg/mL	+/- 5.9595 +/- 12.0557 +/- 19.1270	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

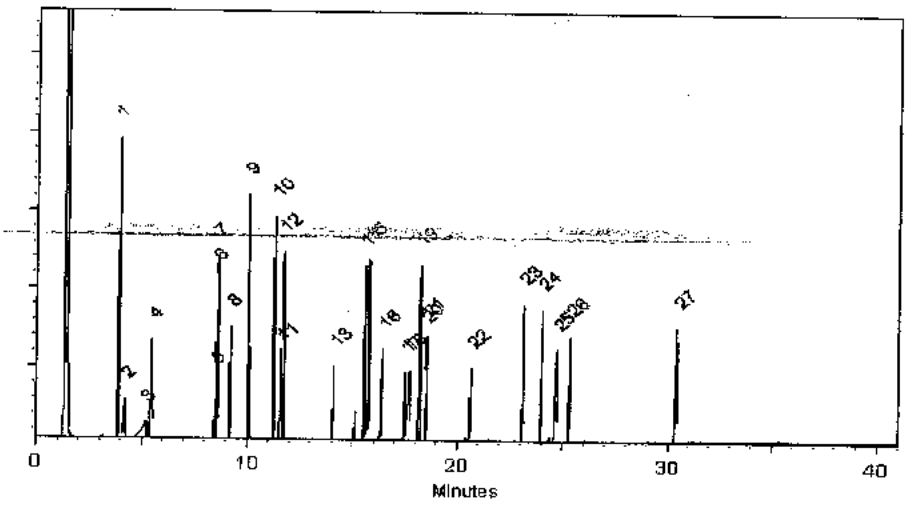
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



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

Cathleen Soltis - Mix Technician

Date Mixed: 24-Jul-2022 **Balance:** B442140311

Christie Mills - Operations Tech II - ARM QC

Date Passed: 19-Sep-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

OP_RES_APPX2_00009

OP-RES-APPX2-00009

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CERTIFIED REFERENCE MATERIAL

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 569733 **Lot No.:** A0185039

Description : 8270 List 2 / Std #2 (2015)

8270 List 2 / Std #2 (2015) 1,000µg/mL, Methylene chloride, 1mL/ampul

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

Expiration Date : May 31, 2023 **Storage:** -20°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Methyl methanesulfonate		1,005.3 µg/mL	+/- 5.9714	µg/mL	Gravimetric
	CAS # 66-27-3	(Lot MKCL6261)		+/- 46.1961	µg/mL	Unstressed
	Purity 99%			+/- 47.3779	µg/mL	Stressed
2	Ethyl methanesulfonate		1,002.7 µg/mL	+/- 5.9555	µg/mL	Gravimetric
	CAS # 62-50-0	(Lot DGMLA)		+/- 46.0736	µg/mL	Unstressed
	Purity 99%			+/- 47.2522	µg/mL	Stressed
3	Pentachloroethane		1,001.3 µg/mL	+/- 5.9476	µg/mL	Gravimetric
	CAS # 76-01-7	(Lot 8170200)		+/- 46.0123	µg/mL	Unstressed
	Purity 99%			+/- 47.1893	µg/mL	Stressed
4	Hexachloropropene		1,004.7 µg/mL	+/- 5.9674	µg/mL	Gravimetric
	CAS # 1888-71-7	(Lot 44391/3)		+/- 46.1655	µg/mL	Unstressed
	Purity 99%			+/- 47.3464	µg/mL	Stressed
5	Isosafrole (cis & trans)		1,006.9 µg/mL	+/- 5.9804	µg/mL	Gravimetric
	CAS # 120-58-1	(Lot MKBZ0058V)		+/- 46.2662	µg/mL	Unstressed
	Purity 97%	16% cis; 84% trans		+/- 47.4498	µg/mL	Stressed
6	1-Chloronaphthalene		1,000.7 µg/mL	+/- 5.9437	µg/mL	Gravimetric
	CAS # 90-13-1	(Lot K2OBC)		+/- 45.9817	µg/mL	Unstressed
	Purity 99%			+/- 47.1579	µg/mL	Stressed
7	1,4-Naphthoquinone		1,004.7 µg/mL	+/- 5.9674	µg/mL	Gravimetric
	CAS # 130-15-4	(Lot 11385600)		+/- 46.1655	µg/mL	Unstressed
	Purity 99%			+/- 47.3464	µg/mL	Stressed

8	Pentachlorobenzene		1,005.3	µg/mL	+/-	5.9714	µg/mL	Gravimetric
	CAS # 608-93-5	(Lot MKCD4132)			+/-	46.1961	µg/mL	Unstressed
	Purity 99%				+/-	47.3779	µg/mL	Stressed
9	2,3,5,6-Tetrachlorophenol		1,004.0	µg/mL	+/-	5.9635	µg/mL	Gravimetric
	CAS # 935-95-5	(Lot 012016)			+/-	46.1348	µg/mL	Unstressed
	Purity 99%				+/-	47.3150	µg/mL	Stressed
10	Dinoseb		1,008.7	µg/mL	+/-	5.9912	µg/mL	Gravimetric
	CAS # 88-85-7	(Lot 50001)			+/-	46.3493	µg/mL	Unstressed
	Purity 99%				+/-	47.5349	µg/mL	Stressed
11	Isodrin		1,004.0	µg/mL	+/-	5.9635	µg/mL	Gravimetric
	CAS # 465-73-6	(Lot 13019000)			+/-	46.1348	µg/mL	Unstressed
	Purity 99%				+/-	47.3150	µg/mL	Stressed
12	Chlorobenzilate		1,001.3	µg/mL	+/-	5.9476	µg/mL	Gravimetric
	CAS # 510-15-6	(Lot 32633)			+/-	46.0123	µg/mL	Unstressed
	Purity 99%				+/-	47.1893	µg/mL	Stressed
13	7,12-Dimethylbenz(a)anthracene		1,002.2	µg/mL	+/-	5.9528	µg/mL	Gravimetric
	CAS # 57-97-6	(Lot SVZLK)			+/-	46.0527	µg/mL	Unstressed
	Purity 98%				+/-	47.2308	µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

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.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

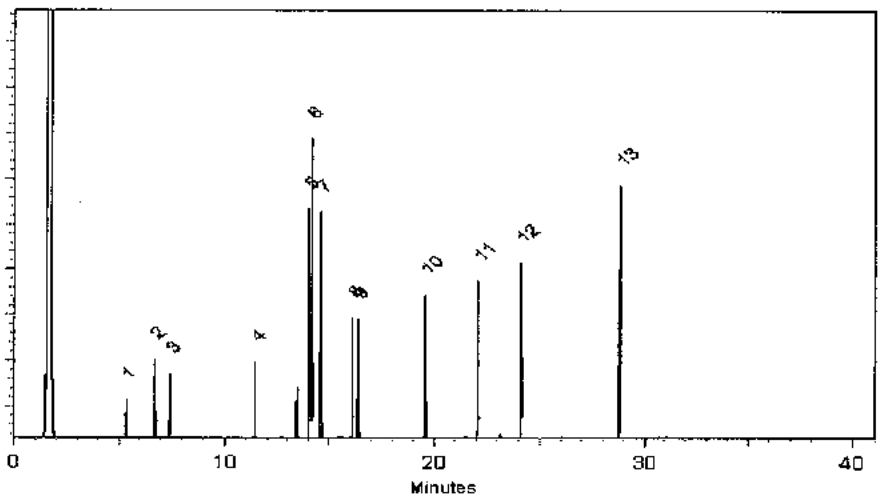
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



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

Sam Moodler - Operations Tech I

Christie Mills - Operations Technician II

Date Mixed: 08-May-2022 **Balance:** B442140311

Date Passed: 24-May-2022

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

Reagent

OP_RES_APPX3_00006

OP-RESA883-00006

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
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Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 567680 **Lot No.:** A0184674

Description : 8270 List 2 / Std #3

8270 List 2 / Std #3 2,000µg/mL, Methylene chloride, 1mL/ampul

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

Expiration Date : April 30, 2023 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	6-Methylchrysene **CAS #** 1705-85-7 (Lot 1) **Purity** 99%	2,003.0 µg/mL	+/- 11.7547 µg/mL +/- 90.2305 µg/mL +/- 100.1189 µg/mL	Gravimetric Unstressed Stressed
2	3-Methylcholanthrene **CAS #** 56-49-5 (Lot MKCM7171) **Purity** 98%	2,000.2 µg/mL	+/- 11.7382 µg/mL +/- 90.1034 µg/mL +/- 99.9779 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

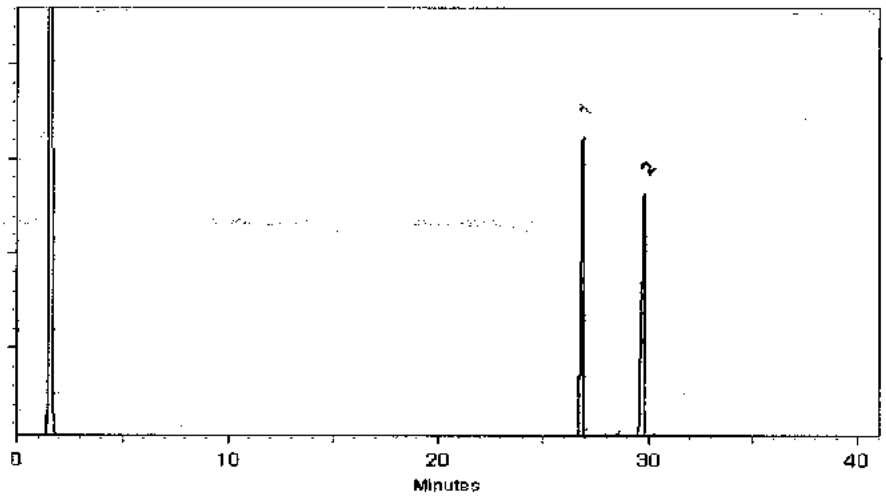
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



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

Josh McCloskey - Operations Technician I

Date Mixed: 28-Apr-2022 **Balance:** B442140311

Christie Mills - Operations Technician II

Date Passed: 03-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

OP_RES_APPX4_00007

OP-RES-APPX4-00007

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

12/06/2022

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. : 567681 **Lot No.:** A0180903

Description : 8270 List 2 / Std #4

8270 List 2 / Std #4 1,000µg/mL, Methylene chloride, 1mL/ampul

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

Expiration Date : January 31, 2024 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)		
1	o,o,o-Triethyl phosphorothioate		1,003.1	µg/mL	+/- 5.8869	µg/mL	Gravimetric
	CAS # 126-68-1	(Lot 2-KRR-57-1)			+/- 43.0285	µg/mL	Unstressed
	Purity 98%				+/- 43.0471	µg/mL	Stressed
2	Safrole		1,007.6	µg/mL	+/- 5.9132	µg/mL	Gravimetric
	CAS # 94-59-7	(Lot 322225/11292)			+/- 43.2204	µg/mL	Unstressed
	Purity 99%				+/- 43.2390	µg/mL	Stressed
3	Zinophos (thionazine)		1,002.4	µg/mL	+/- 5.8826	µg/mL	Gravimetric
	CAS # 297-97-2	(Lot 12739700)			+/- 42.9973	µg/mL	Unstressed
	Purity 99%				+/- 43.0159	µg/mL	Stressed
4	Sulfotepp		994.8	µg/mL	+/- 5.8382	µg/mL	Gravimetric
	CAS # 3689-24-5	(Lot 12741000)			+/- 42.6727	µg/mL	Unstressed
	Purity 97%				+/- 42.6911	µg/mL	Stressed
5	Diallate (cis and trans)		1,006.8	µg/mL	+/- 5.9087	µg/mL	Gravimetric
	CAS # 2303-16-4	(Lot 12562400)			+/- 43.1881	µg/mL	Unstressed
	Purity 96%	74% Cis isomer; 26% Trans isomer			+/- 43.2067	µg/mL	Stressed
6	Phorate		991.0	µg/mL	+/- 5.8155	µg/mL	Gravimetric
	CAS # 298-02-2	(Lot 12740900)			+/- 42.5063	µg/mL	Unstressed
	Purity 97%				+/- 42.5246	µg/mL	Stressed
7	Dimethoate		1,000.0	µg/mL	+/- 5.8686	µg/mL	Gravimetric
	CAS # 60-51-5	(Lot 12741200)			+/- 42.8944	µg/mL	Unstressed
	Purity 99%				+/- 42.9129	µg/mL	Stressed

8	Disulfoton		1,006.1	µg/mL	+/-	5.9042	µg/mL	Gravimetric
	CAS # 298-04-4	(Lot 12578200)			+/-	43.1552	µg/mL	Unstressed
	Purity 96%				+/-	43.1738	µg/mL	Stressed
9	Methyl parathion		1,000.0	µg/mL	+/-	5.8686	µg/mL	Gravimetric
	CAS # 298-00-0	(Lot 12741300)			+/-	42.8944	µg/mL	Unstressed
	Purity 99%				+/-	42.9129	µg/mL	Stressed
10	Parathion (Ethyl parathion)		1,004.4	µg/mL	+/-	5.8944	µg/mL	Gravimetric
	CAS # 56-38-2	(Lot 12740700)			+/-	43.0831	µg/mL	Unstressed
	Purity 99%				+/-	43.1017	µg/mL	Stressed
11	Aramite		1,005.3	µg/mL	+/-	5.8997	µg/mL	Gravimetric
	CAS # 140-57-8	(Lot 012019)			+/-	43.1222	µg/mL	Unstressed
	Purity 96%	2% Isomer I; 3% Isomer II; 48% Isomer III; 47% Isomer IV			+/-	43.1408	µg/mL	Stressed
12	Famphur		1,000.4	µg/mL	+/-	5.8708	µg/mL	Gravimetric
	CAS # 52-85-7	(Lot 12326000)			+/-	42.9108	µg/mL	Unstressed
	Purity 98%				+/-	42.9293	µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

8	Disulfoton		1,006.1	µg/mL	+/-	5.9042	µg/mL	Gravimetric
	CAS # 298-04-4	(Lot 12578200)			+/-	43.1552	µg/mL	Unstressed
	Purity 96%				+/-	43.1738	µg/mL	Stressed
9	Methyl parathion		1,000.0	µg/mL	+/-	5.8686	µg/mL	Gravimetric
	CAS # 298-00-0	(Lot 12741300)			+/-	42.8944	µg/mL	Unstressed
	Purity 99%				+/-	42.9129	µg/mL	Stressed
10	Parathion (Ethyl parathion)		1,004.4	µg/mL	+/-	5.8944	µg/mL	Gravimetric
	CAS # 56-38-2	(Lot 12740700)			+/-	43.0831	µg/mL	Unstressed
	Purity 99%				+/-	43.1017	µg/mL	Stressed
11	Aramite		1,005.3	µg/mL	+/-	5.8997	µg/mL	Gravimetric
	CAS # 140-57-8	(Lot 012019)			+/-	43.1222	µg/mL	Unstressed
	Purity 96%	2% Isomer I; 3% Isomer II; 48% Isomer III; 47% Isomer IV			+/-	43.1408	µg/mL	Stressed
12	Famphur		1,000.4	µg/mL	+/-	5.8708	µg/mL	Gravimetric
	CAS # 52-85-7	(Lot 12326000)			+/-	42.9108	µg/mL	Unstressed
	Purity 98%				+/-	42.9293	µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

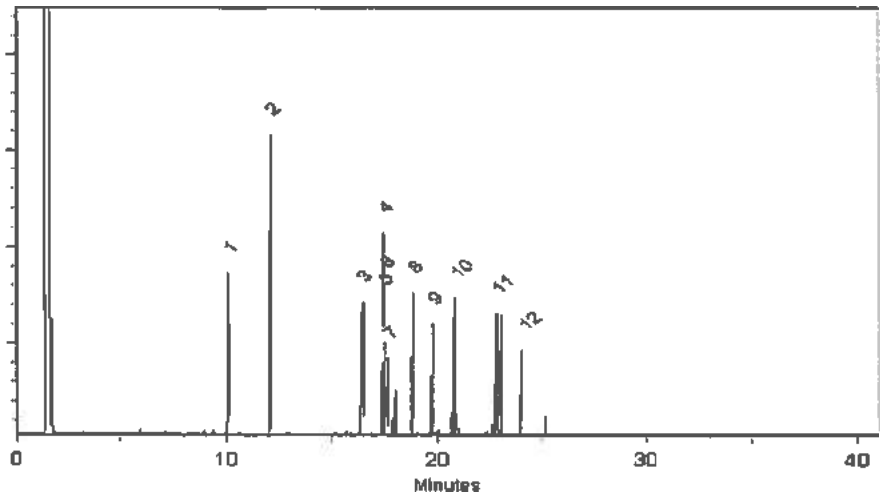
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°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.

Morgan Craighead - Mix Technician

Date Mixed: 21-Jan-2022 **Balance:** B442140311

John Lidgett

John Lidgett - AD Chemist

Date Passed: 31-Jan-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 31661, which includes complete instructions.

Reagent

OP_RES_APPX6_00004

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STN133426B

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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. : 568727 **Lot No.:** A0175669

Description : 8270 List 2/ Std #8 Dibenz(a,j)acridine

8270 List 2/ Std #8 Dibenz(a,j)acridine 2,000µg/mL, Methylene chloride, 1mL/ampul

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

Expiration Date : August 31, 2024 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dibenz(a,j)acridine	2,011.8 µg/mL	+/- 11.8063	µg/mL	Gravimetric
	CAS # 224-42-0 (Lot 0012019)		+/- 90.6260	µg/mL	Unstressed
	Purity 97%		+/- 100.5578	µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

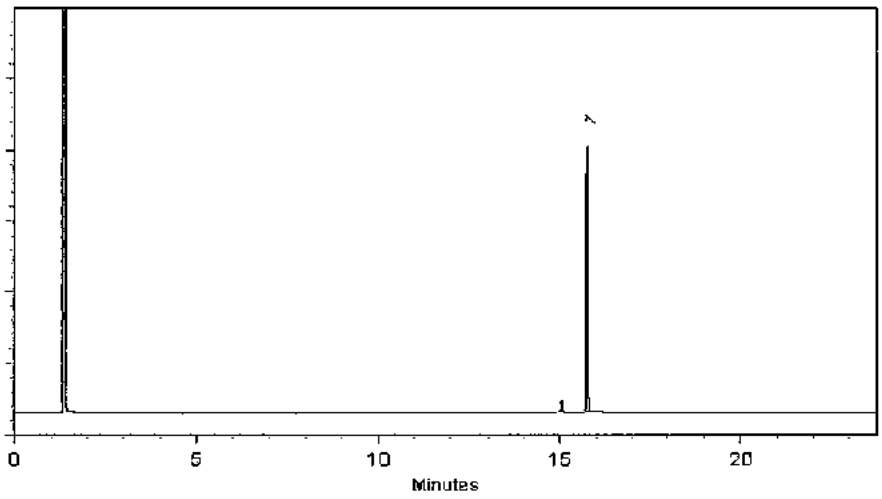
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



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

Walker Workman - Operations Technician I

Date Mixed: 23-Aug-2021 **Balance:** 1128360905

Martina Cowan - Operations Tech I

Date Passed: 25-Aug-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

OP_RES_LCS1_00008

OP-RES-LCSI-00008

RESTEK® CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 571995 **Lot No.:** A0179662

Description : 8270 List 1 / Std #1 MegaMix (2017)

8270 List 1 / Std #1 MegaMix (2017) 500-2000 µg/mL, Methylene chloride, 5mL/ampul

Container Size : 10 mL **Pkg Amt:** > 5 mL

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

Handling: Carcinogen/reproductive toxin. Photosensitive. Sonicate. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,4-Dioxane **CAS #** 123-91-1 **Purity** 99%	(Lot SHBM9675)	1,003.2 µg/mL	+/- 5.8327 µg/mL +/- 11.9923 µg/mL +/- 19.0856 µg/mL	Gravimetric Unstressed Stressed
2	N-Nitrosodimethylamine **CAS #** 62-75-9 **Purity** 99%	(Lot 210512JLM)	1,008.7 µg/mL	+/- 5.8645 µg/mL +/- 12.0577 µg/mL +/- 19.1896 µg/mL	Gravimetric Unstressed Stressed
3	Pyridine **CAS #** 110-86-1 **Purity** 99%	(Lot SHBL0433)	2,012.7 µg/mL	+/- 11.7018 µg/mL +/- 24.0595 µg/mL +/- 38.2904 µg/mL	Gravimetric Unstressed Stressed
4	Phenol **CAS #** 108-95-2 **Purity** 99%	(Lot MKCK1120)	1,004.1 µg/mL	+/- 5.8377 µg/mL +/- 12.0027 µg/mL +/- 19.1021 µg/mL	Gravimetric Unstressed Stressed
5	Aniline **CAS #** 62-53-3 **Purity** 99%	(Lot X22F726)	1,004.5 µg/mL	+/- 5.8404 µg/mL +/- 12.0083 µg/mL +/- 19.1110 µg/mL	Gravimetric Unstressed Stressed
6	Bis(2-chloroethyl)ether **CAS #** 111-44-4 **Purity** 99%	(Lot SHBL6942)	1,006.9 µg/mL	+/- 5.8544 µg/mL +/- 12.0369 µg/mL +/- 19.1566 µg/mL	Gravimetric Unstressed Stressed
7	n-Decane (C10) **CAS #** 124-18-5 **Purity** 99%	(Lot SHBM1113)	1,006.1 µg/mL	+/- 5.8497 µg/mL +/- 12.0274 µg/mL +/- 19.1414 µg/mL	Gravimetric Unstressed Stressed

Reagent

OP_RES_LCS2_00008

OP-RES-LCS2-00008

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Certificate #3222.01

ilac-MRA

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Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 569730 **Lot No.:** A0181121

Description : 8270 List 1 / Std #9

8270 List 1 / Std #9 2000 µg/mL, Methylene chloride, 5mL/ampul

Container Size : 10 mL **Pkg Amt:** > 5 mL

Expiration Date : July 31, 2023 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Benzidine **CAS #** 92-87-5 **Purity** 99%	(Lot 211228JLM)	2,010.0 µg/mL	+/- 11.6863 µg/mL +/- 24.0277 µg/mL +/- 38.2397 µg/mL		Gravimetric Unstressed Stressed
2	3,3'-Dichlorobenzidine **CAS #** 91-94-1 **Purity** 98%	(Lot 220202JLM)	2,000.0 µg/mL	+/- 11.6281 µg/mL +/- 23.9079 µg/mL +/- 38.0491 µg/mL		Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Reagent

OP_RES_LCS3_00005

OP-RES-LCS3-00005

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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Reference Material Producer
Certificate #3222.01

ilac-MRA

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Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 569731 **Lot No.:** A0180656

Description : 8270 List 1 / Std #10

8270 List 1 / Std #10 2000 µg/mL, Methylene chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : July 31, 2023 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Indene	2,001.4 µg/mL	+/- 11.6361 µg/mL	Gravimetric
	CAS # 95-13-6 (Lot DMKCB7043-1211)		+/- 112.2140 µg/mL	Unstressed
	Purity 98%		+/- 114.8397 µg/mL	Stressed
2	Benzoic acid	2,000.7 µg/mL	+/- 11.6324 µg/mL	Gravimetric
	CAS # 65-85-0 (Lot MKCL7479)		+/- 112.1791 µg/mL	Unstressed
	Purity 99%		+/- 114.8040 µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Reagent

OP_RES_LCSadd_00001

RESTEK
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Bellefonte, PA 16823-8812
Tel: (800)356-1688
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CERTIFIED REFERENCE MATERIAL

Certificate of Composition

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. : 576938 **Lot No.:** A0166837

Description : Custom 8270/625 Add-in Standard

Custom 8270/625 Add-ins Standard 2,000µg/mL, Methylene chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : December 31, 2023 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	N,N-Dimethylformamide **CAS #** 68-12-2 **Purity** 99% (Lot SHBL5825)	2,011.8 µg/mL	+/- 11.7235 µg/mL +/- 91.6231 µg/mL +/- 132.2992 µg/mL	Gravimetric Unstressed Stressed
2	alpha-Methylstyrene **CAS #** 98-83-9 **Purity** 99% (Lot MKBS2502V)	2,006.0 µg/mL	+/- 11.6900 µg/mL +/- 91.3612 µg/mL +/- 131.9211 µg/mL	Gravimetric Unstressed Stressed
3	a-Terpineol **CAS #** 98-55-5 **Purity** 96% (Lot ASB00020105-001)	2,011.4 µg/mL	+/- 11.7217 µg/mL +/- 91.6089 µg/mL +/- 132.2788 µg/mL	Gravimetric Unstressed Stressed
4	2,3-Dichloroaniline **CAS #** 608-27-5 **Purity** 99% (Lot FBV01)	1,986.8 µg/mL	+/- 11.5778 µg/mL +/- 90.4845 µg/mL +/- 130.6551 µg/mL	Gravimetric Unstressed Stressed
5	n-Tetradecane (C14) **CAS #** 629-59-4 **Purity** 99% (Lot STBJ3715)	2,003.0 µg/mL	+/- 11.6725 µg/mL +/- 91.2245 µg/mL +/- 131.7238 µg/mL	Gravimetric Unstressed Stressed
6	Diphenyl ether **CAS #** 101-84-8 **Purity** 99% (Lot SHBL5909)	2,004.5 µg/mL	+/- 11.6813 µg/mL +/- 91.2929 µg/mL +/- 131.8224 µg/mL	Gravimetric Unstressed Stressed
7	1-Methylphenanthrene **CAS #** 832-69-9 **Purity** 99% (Lot 10916300)	2,011.8 µg/mL	+/- 11.7235 µg/mL +/- 91.6231 µg/mL +/- 132.2992 µg/mL	Gravimetric Unstressed Stressed

8	n-Eicosane (C20) **CAS #** 112-95-8 **Purity** 99%	(Lot MKCF7888)	2,010.5	µg/mL	+/- 11.7162 +/- 91.5661 +/- 132.2170	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	Octachlorostyrene **CAS #** 29082-74-4 **Purity** 99%	(Lot NT058409)	2,008.5	µg/mL	+/- 11.7046 +/- 91.4750 +/- 132.0855	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	n-Docosane (C22) **CAS #** 629-97-0 **Purity** 99%	(Lot MKCH2086)	2,010.8	µg/mL	+/- 11.7177 +/- 91.5775 +/- 132.2335	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

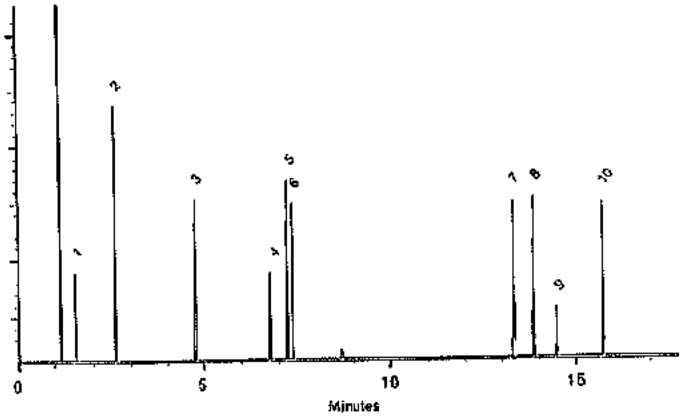
Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID



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

Bradley Meyer

Date Mixed: 03-Dec-2020 **Balance:** 1128353505

Justine Albertson - Operations Tech-ARM QC

Date Passed: 07-Dec-2020

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Method 8260C

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-106360-1

SDG No.:

Matrix: Water Level: Low

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

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
FBS010_112022	410-106360-1	102	101	104	95
DUP-01_112022	410-106360-2	100	99	101	93
FBW001_112022	410-106360-3	101	95	102	95
FBW001_FB_112022	410-106360-4	99	100	104	94
Trip Blank	410-106360-5	99	101	104	93
	MB 410-322343/7	99	94	102	92
	LCS 410-322343/4	100	100	104	94
	LCSD 410-322343/5	101	103	104	94
FBW001-MS_112022 MS	410-106360-3 MS	101	103	104	93
FBW001-MSD_112022 MSD	410-106360-3 MSD	101	99	104	93

	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 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-106360-1

SDG No.:

Matrix: Water Level: Low Lab File ID: WN30X33.D

Lab ID: LCS 410-322343/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	18.6	93	67-126	
1,1,2,2-Tetrachloroethane	20.0	20.3	102	72-120	
1,1,2-Trichloroethane	20.0	20.2	101	80-120	
1,1-Dichloroethane	20.0	19.4	97	80-120	
1,1-Dichloroethene	20.0	19.8	99	80-131	
1,2,4-Trichlorobenzene	20.0	22.0	110	63-120	
1,2,4-Trimethylbenzene	20.0	22.1	111	75-120	
1,2-Dibromo-3-Chloropropane	20.0	16.5	82	47-131	
1,2-Dibromoethane	20.0	20.9	104	77-120	
1,2-Dichlorobenzene	20.0	22.0	110	80-120	
1,2-Dichloroethane	20.0	18.6	93	73-124	
1,2-Dichloropropane	20.0	19.1	95	80-120	
1,3,5-Trimethylbenzene	20.0	21.9	109	75-120	
1,3-Dichlorobenzene	20.0	22.0	110	80-120	
1,4-Dichlorobenzene	20.0	21.7	109	80-120	
2-Butanone	250	212	85	59-135	
2-Hexanone	250	245	98	56-135	
4-Methyl-2-pentanone	250	226	90	62-133	
Acetone	250	287	115	54-157	
Benzene	20.0	19.9	99	80-120	
Bromodichloromethane	20.0	17.7	89	71-120	
Bromoform	20.0	18.4	92	51-120	
Bromomethane	20.0	18.6	93	53-128	
Carbon disulfide	20.0	21.2	106	65-128	
Carbon tetrachloride	20.0	18.3	91	64-134	
Chlorobenzene	20.0	21.0	105	80-120	
Chloroethane	20.0	18.6	93	55-123	
Chloroform	20.0	19.2	96	80-120	
Chloromethane	20.0	18.7	94	56-121	
cis-1,2-Dichloroethene	20.0	20.5	103	80-125	
cis-1,3-Dichloropropene	20.0	17.3	87	75-120	
Cyclohexane	20.0	19.9	99	68-126	
Dibromochloromethane	20.0	18.7	93	71-120	
Dichlorodifluoromethane	20.0	13.9	70	41-127	
Ethylbenzene	20.0	21.5	108	80-120	
Freon 113	20.0	21.0	105	73-139	
Isopropylbenzene	20.0	22.7	113	80-120	
Methyl acetate	20.0	18.9	95	54-136	
Methyl tertiary butyl ether	20.0	19.8	99	69-122	
Methylcyclohexane	20.0	20.6	103	67-121	
Methylene Chloride	20.0	19.0	95	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-106360-1

SDG No.:

Matrix: Water Level: Low Lab File ID: WN30X33.D

Lab ID: LCS 410-322343/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Styrene	20.0	20.9	105	80-120	
Tetrachloroethene	20.0	22.1	110	80-120	
Toluene	20.0	21.4	107	80-120	
trans-1,2-Dichloroethene	20.0	18.8	94	80-126	
trans-1,3-Dichloropropene	20.0	17.7	89	67-120	
Trichloroethene	20.0	18.9	94	80-120	
Trichlorofluoromethane	20.0	16.6	83	55-135	
Vinyl chloride	20.0	17.9	90	56-120	
Xylenes, Total	60.0	65.2	109	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-106360-1

SDG No.:

Matrix: Water Level: Low Lab File ID: WN30X34.D

Lab ID: LCSD 410-322343/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	18.8	94	1	30	67-126	
1,1,2,2-Tetrachloroethane	20.0	20.5	103	1	30	72-120	
1,1,2-Trichloroethane	20.0	19.4	97	4	30	80-120	
1,1-Dichloroethane	20.0	19.6	98	1	30	80-120	
1,1-Dichloroethene	20.0	19.1	95	4	30	80-131	
1,2,4-Trichlorobenzene	20.0	22.4	112	2	30	63-120	
1,2,4-Trimethylbenzene	20.0	22.0	110	0	30	75-120	
1,2-Dibromo-3-Chloropropane	20.0	16.6	83	0	30	47-131	
1,2-Dibromoethane	20.0	20.9	105	0	30	77-120	
1,2-Dichlorobenzene	20.0	22.2	111	1	30	80-120	
1,2-Dichloroethane	20.0	18.6	93	0	30	73-124	
1,2-Dichloropropane	20.0	19.5	98	2	30	80-120	
1,3,5-Trimethylbenzene	20.0	21.6	108	1	30	75-120	
1,3-Dichlorobenzene	20.0	21.7	109	1	30	80-120	
1,4-Dichlorobenzene	20.0	21.7	108	0	30	80-120	
2-Butanone	250	219	87	3	30	59-135	
2-Hexanone	250	242	97	1	30	56-135	
4-Methyl-2-pentanone	250	230	92	2	30	62-133	
Acetone	250	275	110	4	30	54-157	
Benzene	20.0	20.0	100	1	30	80-120	
Bromodichloromethane	20.0	18.0	90	2	30	71-120	
Bromoform	20.0	17.8	89	3	30	51-120	
Bromomethane	20.0	18.6	93	0	30	53-128	
Carbon disulfide	20.0	20.8	104	2	30	65-128	
Carbon tetrachloride	20.0	18.1	91	1	30	64-134	
Chlorobenzene	20.0	21.0	105	0	30	80-120	
Chloroethane	20.0	18.7	94	1	30	55-123	
Chloroform	20.0	19.2	96	0	30	80-120	
Chloromethane	20.0	19.0	95	1	30	56-121	
cis-1,2-Dichloroethene	20.0	20.6	103	0	30	80-125	
cis-1,3-Dichloropropene	20.0	17.2	86	1	30	75-120	
Cyclohexane	20.0	20.3	101	2	30	68-126	
Dibromochloromethane	20.0	18.6	93	1	30	71-120	
Dichlorodifluoromethane	20.0	14.0	70	0	30	41-127	
Ethylbenzene	20.0	21.7	108	1	30	80-120	
Freon 113	20.0	20.9	104	1	30	73-139	
Isopropylbenzene	20.0	22.3	111	2	30	80-120	
Methyl acetate	20.0	23.2	116	20	30	54-136	
Methyl tertiary butyl ether	20.0	20.1	101	2	30	69-122	
Methylcyclohexane	20.0	21.1	105	2	30	67-121	
Methylene Chloride	20.0	19.3	96	1	30	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-106360-1

SDG No.:

Matrix: Water Level: Low Lab File ID: WN30X34.D

Lab ID: LCSD 410-322343/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Styrene	20.0	20.7	103	1	30	80-120	
Tetrachloroethene	20.0	22.1	111	0	30	80-120	
Toluene	20.0	20.5	103	4	30	80-120	
trans-1,2-Dichloroethene	20.0	19.8	99	5	30	80-126	
trans-1,3-Dichloropropene	20.0	18.0	90	2	30	67-120	
Trichloroethene	20.0	19.6	98	4	30	80-120	
Trichlorofluoromethane	20.0	16.6	83	0	30	55-135	
Vinyl chloride	20.0	17.8	89	1	30	56-120	
Xylenes, Total	60.0	64.5	108	1	30	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-106360-1

SDG No.:

Matrix: Water Level: Low Lab File ID: WN30X42.D

Lab ID: 410-106360-3 MS Client ID: FBW001-MS_112022 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	ND	20.0	100	67-126	
1,1,2,2-Tetrachloroethane	20.0	ND	21.1	105	72-120	
1,1,2-Trichloroethane	20.0	ND	20.2	101	80-120	
1,1-Dichloroethane	20.0	ND	21.4	107	80-120	
1,1-Dichloroethene	20.0	ND	22.7	113	80-131	
1,2,4-Trichlorobenzene	20.0	ND	23.9	119	63-120	
1,2,4-Trimethylbenzene	20.0	ND	23.8	119	75-120	
1,2-Dibromo-3-Chloropropane	20.0	ND	15.7	78	47-131	
1,2-Dibromoethane	20.0	ND	21.2	106	77-120	
1,2-Dichlorobenzene	20.0	ND	23.8	119	80-120	
1,2-Dichloroethane	20.0	ND	19.5	97	73-124	
1,2-Dichloropropane	20.0	ND	20.1	101	80-120	
1,3,5-Trimethylbenzene	20.0	ND	24.0	120	75-120	
1,3-Dichlorobenzene	20.0	ND	22.9	115	80-120	
1,4-Dichlorobenzene	20.0	ND	23.1	116	80-120	
2-Butanone	250	ND	205	82	59-135	
2-Hexanone	250	ND	237	95	56-135	
4-Methyl-2-pentanone	250	ND	221	88	62-133	
Acetone	250	ND	304	122	54-157	
Benzene	20.0	ND	21.3	106	80-120	
Bromodichloromethane	20.0	ND	18.8	94	71-120	
Bromoform	20.0	ND	18.8	94	51-120	
Bromomethane	20.0	ND	19.8	99	53-128	
Carbon disulfide	20.0	ND	23.4	117	65-128	
Carbon tetrachloride	20.0	ND	20.3	102	64-134	
Chlorobenzene	20.0	ND	22.3	112	80-120	
Chloroethane	20.0	ND	20.3	102	55-123	
Chloroform	20.0	ND	20.6	103	80-120	
Chloromethane	20.0	ND	19.8	99	56-121	
cis-1,2-Dichloroethene	20.0	ND	22.0	110	80-125	
cis-1,3-Dichloropropene	20.0	ND	17.4	87	75-120	
Cyclohexane	20.0	ND	24.3	122	68-126	
Dibromochloromethane	20.0	ND	19.8	99	71-120	
Dichlorodifluoromethane	20.0	ND	15.5	77	41-127	
Ethylbenzene	20.0	ND	23.0	115	80-120	
Freon 113	20.0	ND	25.1	126	73-139	
Isopropylbenzene	20.0	ND	24.6	123	80-120	F1
Methyl acetate	20.0	ND	17.6	88	54-136	
Methyl tertiary butyl ether	20.0	ND	20.1	101	69-122	
Methylcyclohexane	20.0	ND	25.3	126	67-121	F1
Methylene Chloride	20.0	ND	21.0	105	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-106360-1

SDG No.:

Matrix: Water Level: Low Lab File ID: WN30X42.D

Lab ID: 410-106360-3 MS Client ID: FBW001-MS_112022 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Styrene	20.0	ND	22.4	112	80-120	
Tetrachloroethene	20.0	ND	24.5	122	80-120	F1
Toluene	20.0	ND	22.7	114	80-120	
trans-1,2-Dichloroethene	20.0	ND	22.2	111	80-126	
trans-1,3-Dichloropropene	20.0	ND	17.9	89	67-120	
Trichloroethene	20.0	ND	21.1	105	80-120	
Trichlorofluoromethane	20.0	ND	19.1	95	55-135	
Vinyl chloride	20.0	ND	19.6	98	56-120	
Xylenes, Total	60.0	ND	71.0	118	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-106360-1

SDG No.:

Matrix: Water Level: Low Lab File ID: WN30X43.D

Lab ID: 410-106360-3 MSD Client ID: FBW001-MSD_112022 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	20.8	104	4	30	67-126	
1,1,2,2-Tetrachloroethane	20.0	20.4	102	3	30	72-120	
1,1,2-Trichloroethane	20.0	20.9	104	3	30	80-120	
1,1-Dichloroethane	20.0	21.7	109	2	30	80-120	
1,1-Dichloroethene	20.0	22.7	113	0	30	80-131	
1,2,4-Trichlorobenzene	20.0	24.4	122	2	30	63-120	F1
1,2,4-Trimethylbenzene	20.0	23.8	119	0	30	75-120	
1,2-Dibromo-3-Chloropropane	20.0	16.1	81	3	30	47-131	
1,2-Dibromoethane	20.0	21.7	108	2	30	77-120	
1,2-Dichlorobenzene	20.0	23.6	118	1	30	80-120	
1,2-Dichloroethane	20.0	19.6	98	0	30	73-124	
1,2-Dichloropropane	20.0	20.4	102	1	30	80-120	
1,3,5-Trimethylbenzene	20.0	23.9	119	1	30	75-120	
1,3-Dichlorobenzene	20.0	23.5	118	3	30	80-120	
1,4-Dichlorobenzene	20.0	23.1	115	0	30	80-120	
2-Butanone	250	215	86	5	30	59-135	
2-Hexanone	250	250	100	5	30	56-135	
4-Methyl-2-pentanone	250	234	94	6	30	62-133	
Acetone	250	303	121	0	30	54-157	
Benzene	20.0	22.0	110	4	30	80-120	
Bromodichloromethane	20.0	19.3	97	3	30	71-120	
Bromoform	20.0	18.7	93	1	30	51-120	
Bromomethane	20.0	20.2	101	2	30	53-128	
Carbon disulfide	20.0	24.1	120	3	30	65-128	
Carbon tetrachloride	20.0	21.7	108	6	30	64-134	
Chlorobenzene	20.0	22.7	114	2	30	80-120	
Chloroethane	20.0	21.7	108	6	30	55-123	
Chloroform	20.0	20.8	104	1	30	80-120	
Chloromethane	20.0	20.4	102	3	30	56-121	
cis-1,2-Dichloroethene	20.0	22.6	113	3	30	80-125	
cis-1,3-Dichloropropene	20.0	18.5	92	6	30	75-120	
Cyclohexane	20.0	25.3	126	4	30	68-126	
Dibromochloromethane	20.0	19.9	100	1	30	71-120	
Dichlorodifluoromethane	20.0	16.7	83	8	30	41-127	
Ethylbenzene	20.0	24.0	120	4	30	80-120	
Freon 113	20.0	25.7	128	2	30	73-139	
Isopropylbenzene	20.0	25.6	128	4	30	80-120	F1
Methyl acetate	20.0	27.2	136	43	30	54-136	F2
Methyl tertiary butyl ether	20.0	20.8	104	3	30	69-122	
Methylcyclohexane	20.0	25.3	126	0	30	67-121	F1
Methylene Chloride	20.0	20.9	104	0	30	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-106360-1

SDG No.:

Matrix: Water Level: Low Lab File ID: WN30X43.D

Lab ID: 410-106360-3 MSD Client ID: FBW001-MSD_112022 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Styrene	20.0	22.6	113	1	30	80-120	
Tetrachloroethene	20.0	25.4	127	4	30	80-120	F1
Toluene	20.0	23.2	116	2	30	80-120	
trans-1,2-Dichloroethene	20.0	22.1	110	0	30	80-126	
trans-1,3-Dichloropropene	20.0	19.0	95	6	30	67-120	
Trichloroethene	20.0	20.6	103	2	30	80-120	
Trichlorofluoromethane	20.0	19.6	98	3	30	55-135	
Vinyl chloride	20.0	20.3	102	4	30	56-120	
Xylenes, Total	60.0	71.8	120	1	30	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-106360-1

SDG No.:

Lab File ID: WN30X36.D Lab Sample ID: MB 410-322343/7

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

Instrument ID: 9137 Date Analyzed: 11/30/2022 21:13

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 410-322343/4	WN30X33.D	11/30/2022 20:14
	LCSD 410-322343/5	WN30X34.D	11/30/2022 20:34
FBW001_FB_112022	410-106360-4	WN30X37.D	11/30/2022 21:33
Trip Blank	410-106360-5	WN30X38.D	11/30/2022 21:53
FBW001_112022	410-106360-3	WN30X41.D	11/30/2022 22:51
FBW001-MS_112022 MS	410-106360-3 MS	WN30X42.D	11/30/2022 23:11
FBW001-MSD_112022 MSD	410-106360-3 MSD	WN30X43.D	11/30/2022 23:31
FBS010_112022	410-106360-1	WN30X45.D	12/01/2022 00:10
DUP-01_112022	410-106360-2	WN30X46.D	12/01/2022 00:30

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-106360-1

SDG No.:

Lab File ID: WO27T01.D BFB Injection Date: 10/27/2022

Instrument ID: 9137 BFB Injection Time: 12:27

Analysis Batch No.: 311123

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.8	
75	30.0 - 60.0 % of mass 95	46.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.4	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	77.7	
175	5.0 - 9.0 % of mass 174	6.2	(7.9) 1
176	95.0 - 101.0 % of mass 174	76.5	(98.5) 1
177	5.0 - 9.0 % of mass 176	5.1	(6.6) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 410-311123/3	WC27X02.D	10/27/2022	13:09
	IC 410-311123/4	WC27X03.D	10/27/2022	13:29
	IC 410-311123/5	WC27X04.D	10/27/2022	13:49
	IC 410-311123/6	WC27X05.D	10/27/2022	14:08
	IC 410-311123/7	WC27X06.D	10/27/2022	14:28
	IC 410-311123/8	WC27X07.D	10/27/2022	14:47
	IC 410-311123/11	WC27X10.D	10/27/2022	15:47
	IC 410-311123/12	WC27X11.D	10/27/2022	16:07
	ICIS 410-311123/13	WC27X12.D	10/27/2022	16:27
	IC 410-311123/14	WC27X13.D	10/27/2022	16:46
	IC 410-311123/15	WC27X14.D	10/27/2022	17:06
	IC 410-311123/16	WC27X15.D	10/27/2022	17:26
	IC 410-311123/17	WC27X16.D	10/27/2022	17:46
	ICV 410-311123/19	WC27X18.D	10/27/2022	18:25

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-106360-1

SDG No.:

Lab File ID: WO27T01.D BFB Injection Date: 10/27/2022

Instrument ID: 9137 BFB Injection Time: 12:27

Analysis Batch No.: 311125

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.8	
75	30.0 - 60.0 % of mass 95	46.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.4	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	77.7	
175	5.0 - 9.0 % of mass 174	6.2	(7.9) 1
176	95.0 - 101.0 % of mass 174	76.5	(98.5) 1
177	5.0 - 9.0 % of mass 176	5.1	(6.6) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	ICV 410-311123/9	WC27X08.D	10/27/2022	15:07

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-106360-1

SDG No.:

Lab File ID: WN30T31.D BFB Injection Date: 11/30/2022

Instrument ID: 9137 BFB Injection Time: 19:20

Analysis Batch No.: 322343

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.4	
75	30.0 - 60.0 % of mass 95	46.9	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.8	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	78.8	
175	5.0 - 9.0 % of mass 174	6.1	(7.7) 1
176	95.0 - 101.0 % of mass 174	77.6	(98.5) 1
177	5.0 - 9.0 % of mass 176	5.3	(6.8) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 410-322343/3	WN30X32.D	11/30/2022	19:54
	LCS 410-322343/4	WN30X33.D	11/30/2022	20:14
	LCSD 410-322343/5	WN30X34.D	11/30/2022	20:34
	MB 410-322343/7	WN30X36.D	11/30/2022	21:13
FBW001_FB_112022	410-106360-4	WN30X37.D	11/30/2022	21:33
Trip Blank	410-106360-5	WN30X38.D	11/30/2022	21:53
FBW001_112022	410-106360-3	WN30X41.D	11/30/2022	22:51
FBW001-MS_112022 MS	410-106360-3 MS	WN30X42.D	11/30/2022	23:11
FBW001-MSD_112022 MSD	410-106360-3 MSD	WN30X43.D	11/30/2022	23:31
FBS010_112022	410-106360-1	WN30X45.D	12/01/2022	0:10
DUP-01_112022	410-106360-2	WN30X46.D	12/01/2022	0:30

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-106360-1

SDG No.:

Sample No.: ICIS 410-311123/13 Date Analyzed: 10/27/2022 16:27

Instrument ID: 9137 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): WC27X12.D Heated Purge: (Y/N) N

Calibration ID: 43695

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		746464	2.85	1392317	5.07	1069167	8.19
UPPER LIMIT		1492928	3.35	2784634	5.57	2138334	8.69
LOWER LIMIT		373232	2.35	696159	4.57	534584	7.69
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-311123/19		720290	2.87	1423689	5.07	1043902	8.19
CCVIS 410-322343/3		534778	2.84	1365788	5.08	933545	8.19

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

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

Column used to flag values outside QC limits

FORM VIII 8260C

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-106360-1

SDG No.:

Sample No.: ICIS 410-311123/13 Date Analyzed: 10/27/2022 16:27

Instrument ID: 9137 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): WC27X12.D Heated Purge: (Y/N) N

Calibration ID: 43695

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MID-POINT		576823	10.06				
UPPER LIMIT		1153646	10.56				
LOWER LIMIT		288412	9.56				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-311123/19		565845	10.06				
CCVIS 410-322343/3		507580	10.06				

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 8260C

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-106360-1

SDG No.:

Sample No.: CCVIS 410-322343/3 Date Analyzed: 11/30/2022 19:54

Instrument ID: 9137 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): WN30X32.D Heated Purge: (Y/N) N

Calibration ID: 43695

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		534778	2.84	1365788	5.08	933545	8.19
UPPER LIMIT		1069556	3.34	2731576	5.58	1867090	8.69
LOWER LIMIT		267389	2.34	682894	4.58	466773	7.69
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-322343/4		501832	2.83	1337120	5.07	943648	8.19
LCSD 410-322343/5		538436	2.75	1326599	5.07	957141	8.19
MB 410-322343/7		471799	2.75	1314783	5.08	931496	8.19
410-106360-4	FBW001_FB_112022	546834	2.78	1298698	5.07	905670	8.19
410-106360-5	Trip Blank	487670	2.82	1268823	5.07	874519	8.19
410-106360-3	FBW001_112022	454533	2.75	1258250	5.07	866310	8.19
410-106360-3 MS	FBW001-MS_112022 MS	483732	2.77	1364258	5.08	948699	8.19
410-106360-3 MSD	FBW001-MSD_112022 MSD	474863	2.77	1291981	5.07	922653	8.19
410-106360-1	FBS010_112022	461617	2.75	1259739	5.06	875307	8.19
410-106360-2	DUP-01_112022	450523	2.76	1264894	5.07	893502	8.19

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

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

Column used to flag values outside QC limits

FORM VIII 8260C

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-106360-1

SDG No.:

Sample No.: CCVIS 410-322343/3 Date Analyzed: 11/30/2022 19:54

Instrument ID: 9137 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): WN30X32.D Heated Purge: (Y/N) N

Calibration ID: 43695

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		507580	10.06				
UPPER LIMIT		1015160	10.56				
LOWER LIMIT		253790	9.56				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-322343/4		511358	10.06				
LCSD 410-322343/5		515667	10.06				
MB 410-322343/7		509139	10.06				
410-106360-4	FBW001_FB_112022	498648	10.06				
410-106360-5	Trip Blank	492128	10.07				
410-106360-3	FBW001_112022	478447	10.06				
410-106360-3 MS	FBW001-MS_112022 MS	513428	10.06				
410-106360-3 MSD	FBW001-MSD_112022 MSD	510020	10.06				
410-106360-1	FBS010_112022	489340	10.06				
410-106360-2	DUP-01_112022	485044	10.06				

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 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-106360-1

SDG No.:

Client Sample ID: FBS010_112022 Lab Sample ID: 410-106360-1

Matrix: Water Lab File ID: WN30X45.D

Analysis Method: 8260C Date Collected: 11/17/2022 10:33

Sample wt/vol: 5(mL) Date Analyzed: 12/01/2022 00:10

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.: 322343 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
120-82-1	1,2,4-Trichlorobenzene	ND		5.0	0.30
95-63-6	1,2,4-Trimethylbenzene	ND		5.0	1.0
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	0.30
106-93-4	1,2-Dibromoethane	ND		1.0	0.20
95-50-1	1,2-Dichlorobenzene	ND		5.0	0.20
107-06-2	1,2-Dichloroethane	ND		1.0	0.30
78-87-5	1,2-Dichloropropane	ND		1.0	0.30
108-67-8	1,3,5-Trimethylbenzene	ND		5.0	0.30
541-73-1	1,3-Dichlorobenzene	ND		5.0	0.68
106-46-7	1,4-Dichlorobenzene	ND		5.0	0.30
78-93-3	2-Butanone	ND		10	0.50
591-78-6	2-Hexanone	ND		10	0.85
108-10-1	4-Methyl-2-pentanone	ND		10	0.50
67-64-1	Acetone	ND	cn	20	0.70
71-43-2	Benzene	ND		1.0	0.30
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	0.20
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
110-82-7	Cyclohexane	ND		5.0	1.0
124-48-1	Dibromochloromethane	ND		1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-106360-1

SDG No.:

Client Sample ID: FBS010_112022 Lab Sample ID: 410-106360-1

Matrix: Water Lab File ID: WN30X45.D

Analysis Method: 8260C Date Collected: 11/17/2022 10:33

Sample wt/vol: 5(mL) Date Analyzed: 12/01/2022 00:10

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.: 322343 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
76-13-1	Freon 113	ND		10	0.30
98-82-8	Isopropylbenzene	ND		5.0	0.20
79-20-9	Methyl acetate	ND		5.0	0.30
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20
108-87-2	Methylcyclohexane	ND		5.0	0.50
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
108-88-3	Toluene	ND		1.0	0.20
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
75-69-4	Trichlorofluoromethane	ND		1.0	0.20
75-01-4	Vinyl chloride	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		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)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	102		80-120
2037-26-5	Toluene-d8 (Surr)	104		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20221130-72248.b\WN30X45.D
Lims ID: 410-106360-E-1
Client ID: FBS010_112022
Sample Type: Client
Inject. Date: 01-Dec-2022 00:10:30 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0072248-016
Operator ID: mec29284 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20221130-72248.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 01-Dec-2022 14:59:15 Calib Date: 27-Oct-2022 17:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1606

First Level Reviewer: ULCP Date: 01-Dec-2022 14:40:51

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Dichlorodifluoromethane	85		1.325				ND	
6 Chloromethane	50		1.457				ND	7
7 Vinyl chloride	62		1.530				ND	
10 Bromomethane	94		1.755				ND	7
11 Chloroethane	64		1.787				ND	7
14 Trichlorofluoromethane	101		2.002				ND	
19 1,1-Dichloroethene	96		2.342				ND	
20 Acetone	58		2.368				ND	U
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.381				ND	
24 Carbon disulfide	76		2.541				ND	7
27 Methyl acetate	43		2.660				ND	U
28 Methylene Chloride	84		2.753				ND	
* 29 t-Butyl alcohol-d10 (IS)	65	2.747	2.840	-0.093	44	461617	250.0	
33 trans-1,2-Dichloroethene	96		3.003				ND	
32 Methyl tert-butyl ether	73		3.013				ND	
35 1,1-Dichloroethane	63		3.388				ND	7
40 cis-1,2-Dichloroethene	96		3.937				ND	
41 2-Butanone (MEK)	43		3.947				ND	U
48 Chloroform	83		4.245				ND	
$ 50 Dibromofluoromethane (Surr)	113	4.393	4.406	-0.013	93	296745	50.9	
51 1,1,1-Trichloroethane	97		4.434				ND	
52 Cyclohexane	56		4.502				ND	
54 Carbon tetrachloride	117		4.598				ND	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	4.726	4.730	-0.004	70	78972	50.5	
57 Benzene	78		4.797				ND	7
58 1,2-Dichloroethane	62		4.810				ND	7
* 61 Fluorobenzene (IS)	96	5.063	5.076	-0.013	99	1259739	50.0	
64 Trichloroethene	95		5.452				ND	
65 Methylcyclohexane	83		5.657				ND	7
66 1,2-Dichloropropane	63		5.676				ND	
72 Dichlorobromomethane	83		5.965				ND	
77 cis-1,3-Dichloropropene	75		6.446				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
78 4-Methyl-2-pentanone (MIBK)	43		6.623				ND	7
$ 79 Toluene-d8 (Surr)	98	6.735	6.738	-0.003	93	1208126	52.1	
80 Toluene	92		6.806				ND	7
81 trans-1,3-Dichloropropene	75		7.053				ND	7
84 1,1,2-Trichloroethane	97		7.249				ND	
86 Tetrachloroethene	166		7.403				ND	
90 2-Hexanone	43		7.521				ND	7
91 Chlorodibromomethane	129		7.647				ND	
93 Ethylene Dibromide	107		7.749				ND	
* 94 Chlorobenzene-d5 (IS)	117	8.189	8.192	-0.003	89	875307	50.0	
96 Chlorobenzene	112		8.218				ND	7
98 Ethylbenzene	91		8.327				ND	
99 m-Xylene & p-Xylene	106		8.430				ND	
100 o-Xylene	106		8.766				ND	
101 Styrene	104		8.779				ND	
102 Bromoform	173		8.921				ND	
103 Isopropylbenzene	105		9.075				ND	
$ 106 4-Bromofluorobenzene (Surr)	95	9.190	9.190	0.000	89	429802	47.6	
108 1,1,2,2-Tetrachloroethane	83		9.306				ND	
113 1,3,5-Trimethylbenzene	105		9.533				ND	
118 1,2,4-Trimethylbenzene	105		9.813				ND	
141 1,3-Dichlorobenzene	146		10.018				ND	7
* 144 1,4-Dichlorobenzene-d4	152	10.063	10.063	0.000	95	489340	50.0	
145 1,4-Dichlorobenzene	146		10.079				ND	7
151 1,2-Dichlorobenzene	146		10.345				ND	
153 1,2-Dibromo-3-Chloropropane	75		10.881				ND	
S 155 Xylenes, Total	106		11.245				ND	7
156 1,2,4-Trichlorobenzene	180		11.436				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MSV_Cent_ISSS_00011 Amount Added: 5.00 Units: uL Run Reagent

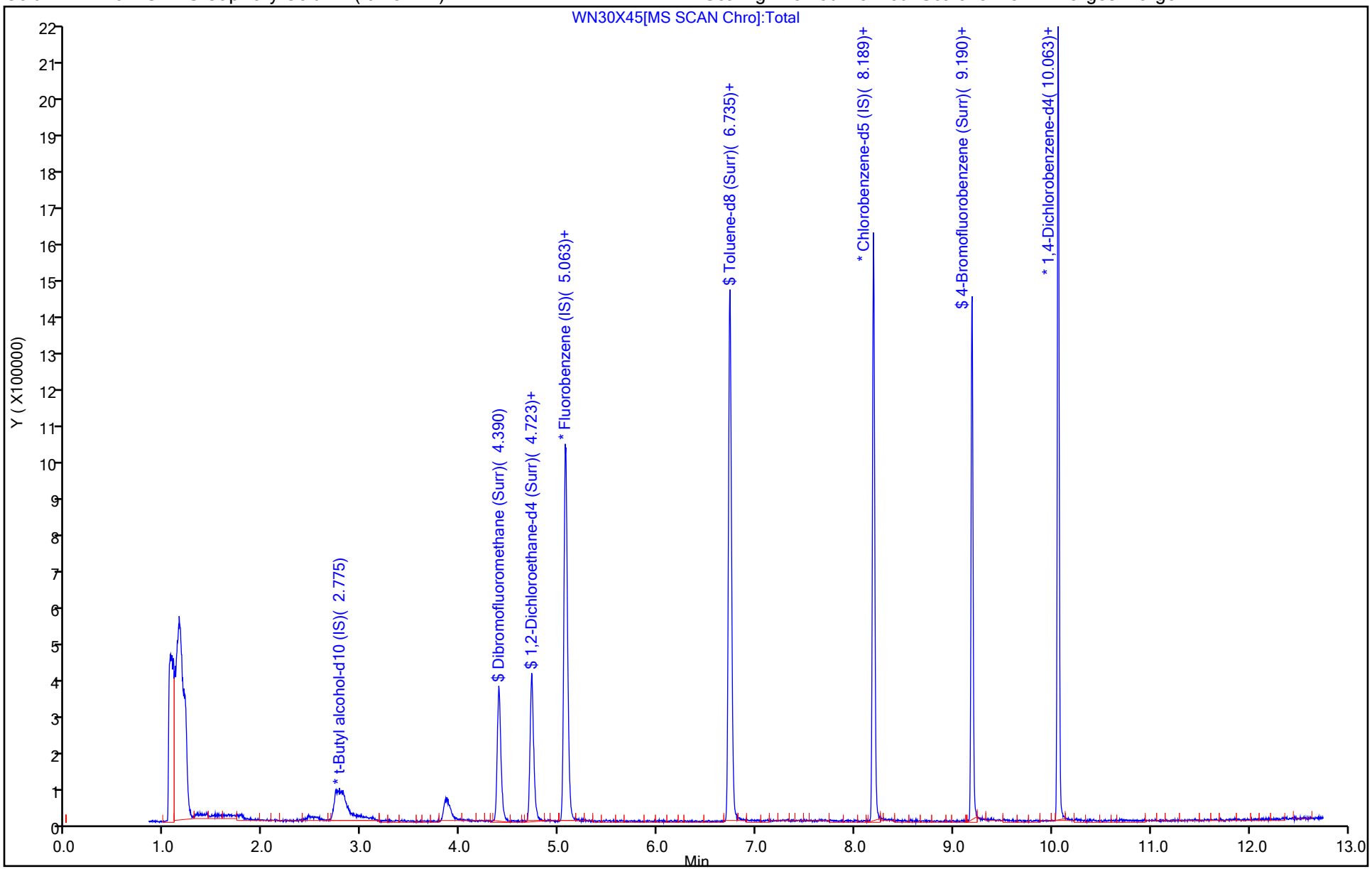
Report Date: 01-Dec-2022 14:59:56 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20221130-72248.b\WN30X45.D

Injection Date:	01-Dec-2022 00:10:30	Instrument ID:	9137	Operator ID:	mec29284
Lims ID:	410-106360-E-1	Lab Sample ID:	410-106360-1	Worklist Smp#:	16
Client ID:	FBS010_112022				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	MSVoa_9137	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\9137\20221130-72248.b\WN30X45.D
Lims ID: 410-106360-E-1
Client ID: FBS010_112022
Sample Type: Client
Inject. Date: 01-Dec-2022 00:10:30 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0072248-016
Operator ID: mec29284 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20221130-72248.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 01-Dec-2022 14:59:15 Calib Date: 27-Oct-2022 17:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1606

First Level Reviewer: ULCP Date: 01-Dec-2022 14:40:51

Compound	Amount Added	Amount Recovered	% Rec.
$ 50 Dibromofluoromethane (Surr)	50.0	50.9	101.74
$ 56 1,2-Dichloroethane-d4 (Surr)	50.0	50.5	101.09
$ 79 Toluene-d8 (Surr)	50.0	52.1	104.25
$ 106 4-Bromofluorobenzene (Surr)	50.0	47.6	95.23

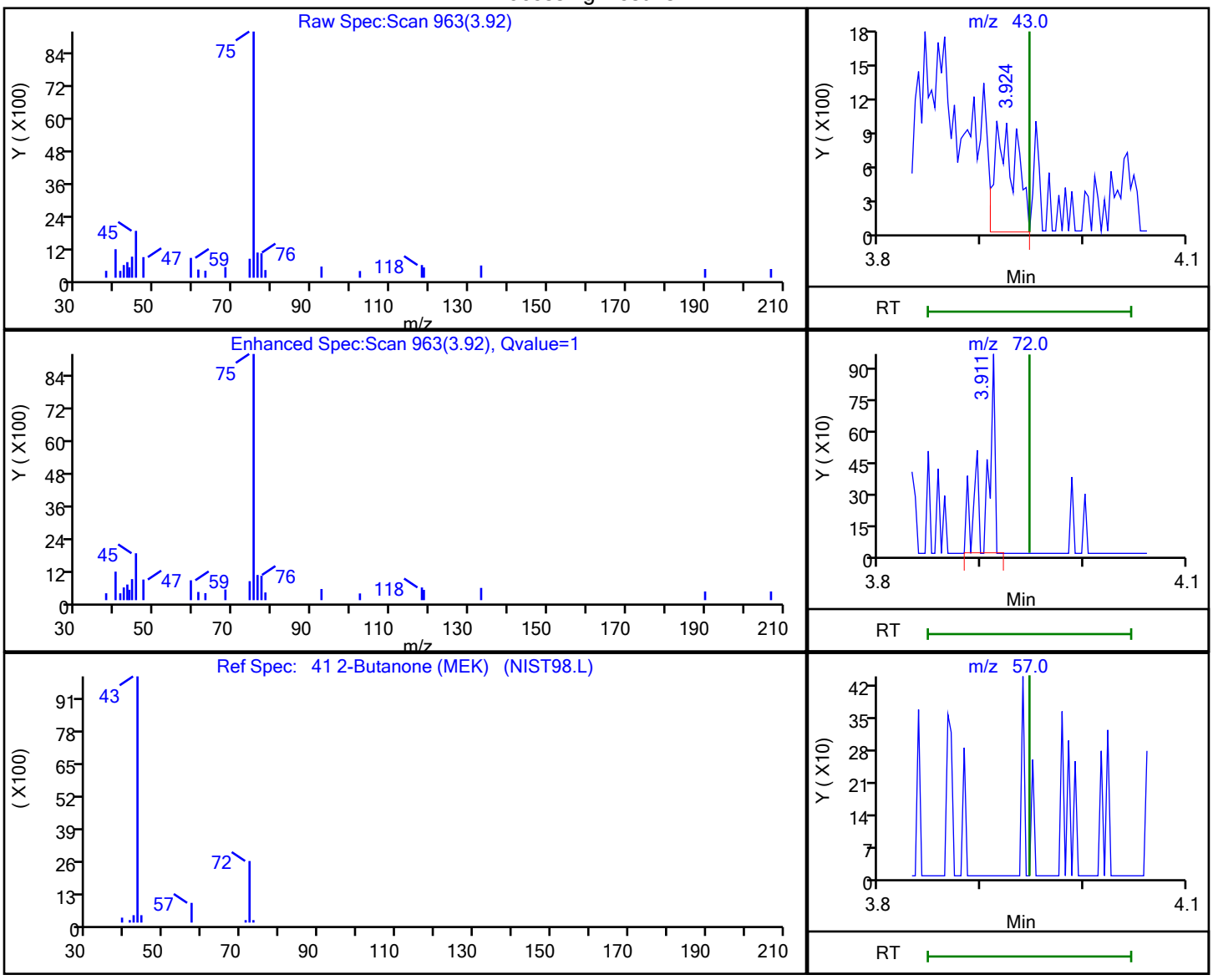
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\9137\20221130-72248.b\WN30X45.D				
Injection Date:	01-Dec-2022 00:10:30	Instrument ID:	9137		
Lims ID:	410-106360-E-1	Lab Sample ID:	410-106360-1		
Client ID:	FBS010_112022				
Operator ID:	mec29284	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

41 2-Butanone (MEK), CAS: 78-93-3

Processing Results



RT	Mass	Response	Amount
3.92	43.00	1408	0.177116
3.91	72.00	541	
3.95	57.00	0	

Reviewer: ULCP, 01-Dec-2022 14:40:37

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

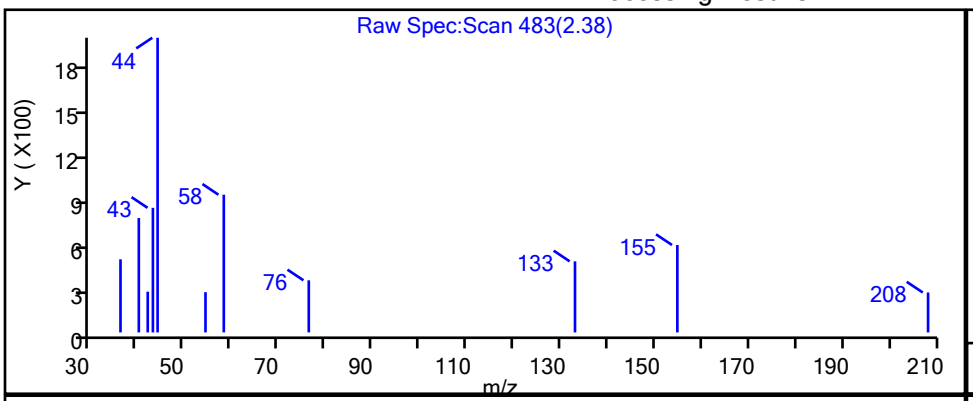
User Disabled Compound Report

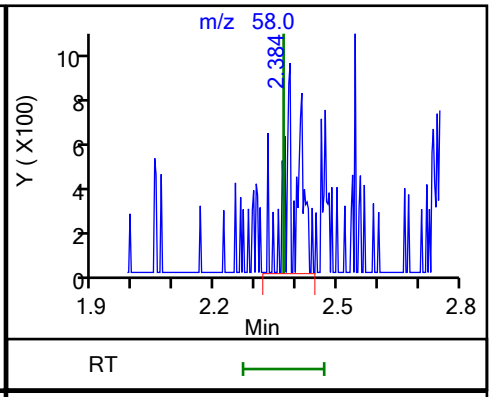
Eurofins Lancaster Laboratories Environment Testing, LLC

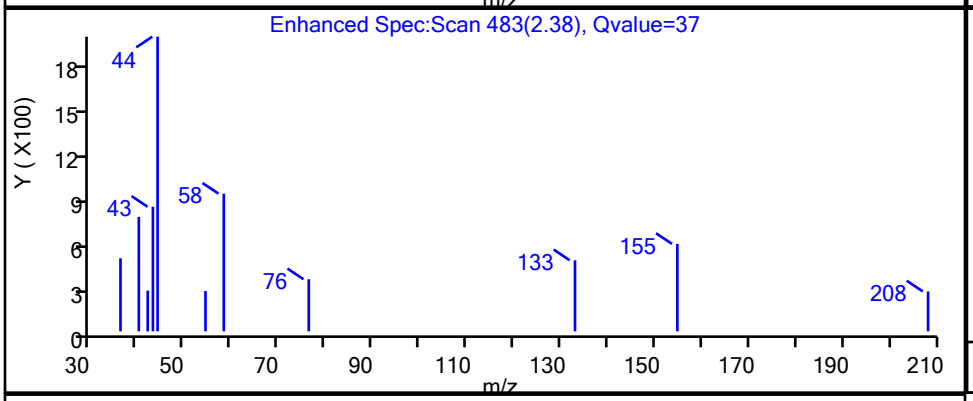
Data File:	\\chromfs\Lancaster\ChromData\9137\20221130-72248.b\WN30X45.D				
Injection Date:	01-Dec-2022 00:10:30	Instrument ID:	9137		
Lims ID:	410-106360-E-1	Lab Sample ID:	410-106360-1		
Client ID:	FBS010_112022				
Operator ID:	mec29284	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

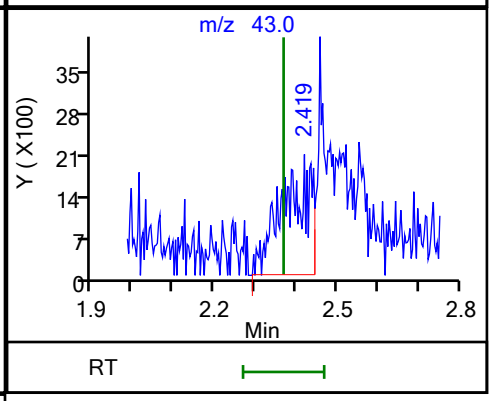
20 Acetone, CAS: 67-64-1

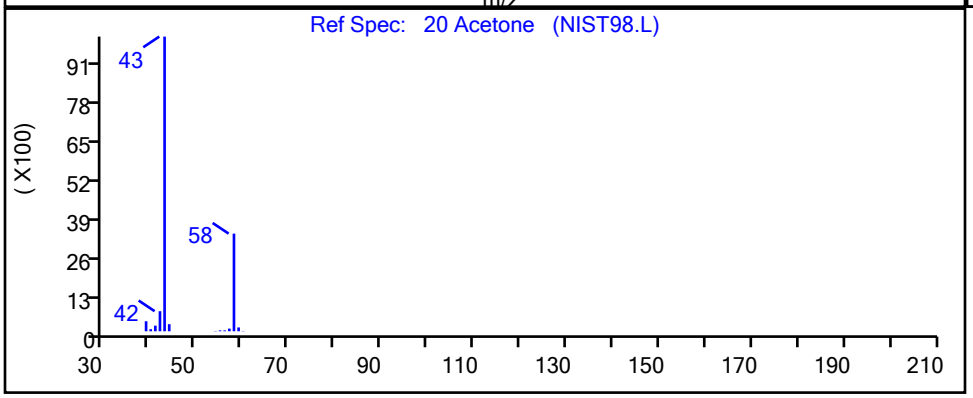
Processing Results











RT	Mass	Response	Amount
2.38	58.00	1788	1.506574
2.42	43.00	9329	

Reviewer: ULCP, 01-Dec-2022 14:40:28

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

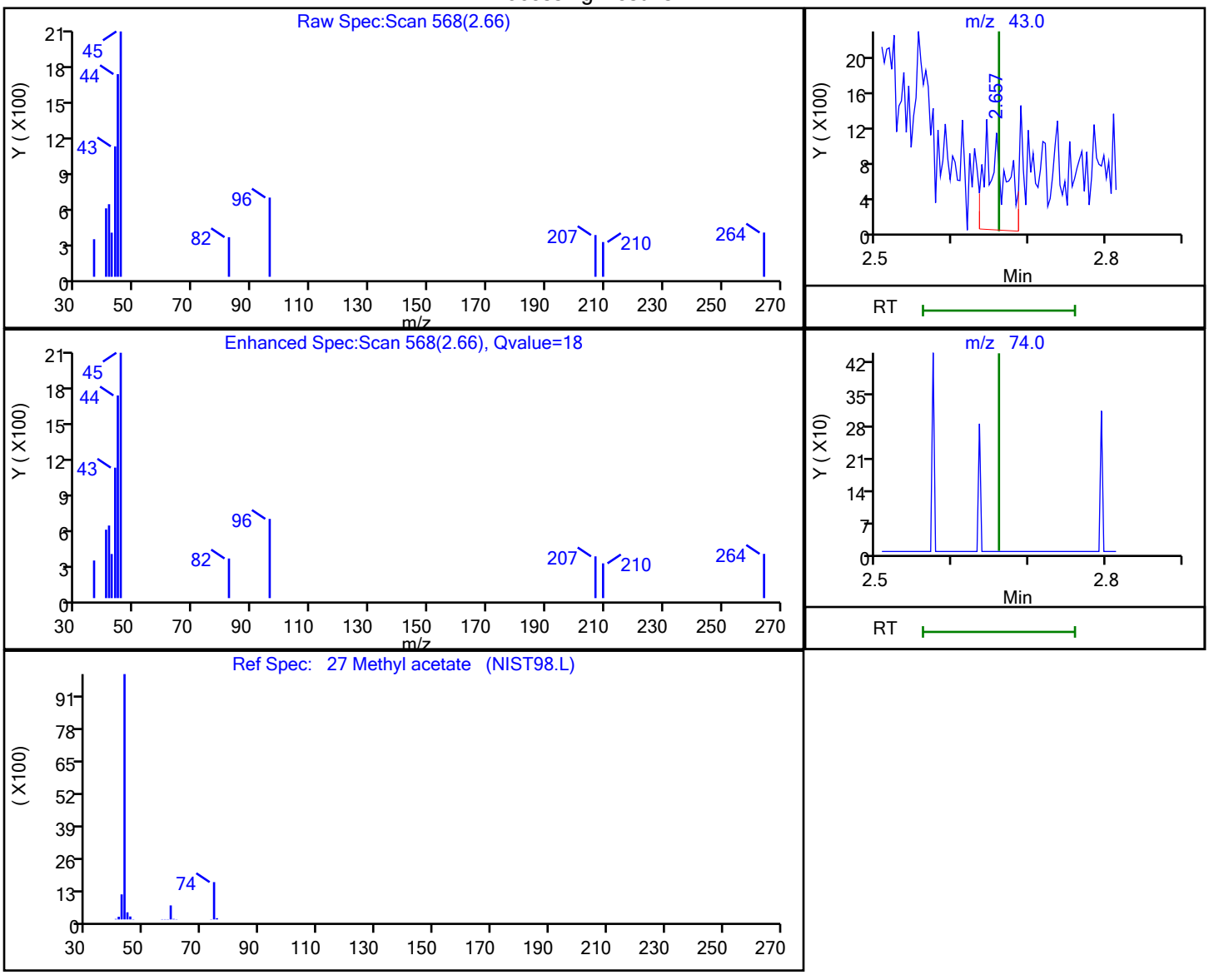
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\9137\20221130-72248.b\WN30X45.D				
Injection Date:	01-Dec-2022 00:10:30	Instrument ID:	9137		
Lims ID:	410-106360-E-1	Lab Sample ID:	410-106360-1		
Client ID:	FBS010_112022				
Operator ID:	mec29284	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

27 Methyl acetate, CAS: 79-20-9

Processing Results



RT	Mass	Response	Amount
2.66	43.00	2010	0.192293
2.66	74.00	0	

Reviewer: ULCP, 01-Dec-2022 14:40:32

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.: 410-106360-1

SDG No.:

Client Sample ID: DUP-01_112022 Lab Sample ID: 410-106360-2

Matrix: Water Lab File ID: WN30X46.D

Analysis Method: 8260C Date Collected: 11/17/2022 12:00

Sample wt/vol: 5(mL) Date Analyzed: 12/01/2022 00:30

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.: 322343 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
120-82-1	1,2,4-Trichlorobenzene	ND		5.0	0.30
95-63-6	1,2,4-Trimethylbenzene	ND		5.0	1.0
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	0.30
106-93-4	1,2-Dibromoethane	ND		1.0	0.20
95-50-1	1,2-Dichlorobenzene	ND		5.0	0.20
107-06-2	1,2-Dichloroethane	ND		1.0	0.30
78-87-5	1,2-Dichloropropane	ND		1.0	0.30
108-67-8	1,3,5-Trimethylbenzene	ND		5.0	0.30
541-73-1	1,3-Dichlorobenzene	ND		5.0	0.68
106-46-7	1,4-Dichlorobenzene	ND		5.0	0.30
78-93-3	2-Butanone	ND		10	0.50
591-78-6	2-Hexanone	ND		10	0.85
108-10-1	4-Methyl-2-pentanone	ND		10	0.50
67-64-1	Acetone	0.90	J cn	20	0.70
71-43-2	Benzene	ND		1.0	0.30
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	0.20
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
110-82-7	Cyclohexane	ND		5.0	1.0
124-48-1	Dibromochloromethane	ND		1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-106360-1

SDG No.:

Client Sample ID: DUP-01_112022 Lab Sample ID: 410-106360-2

Matrix: Water Lab File ID: WN30X46.D

Analysis Method: 8260C Date Collected: 11/17/2022 12:00

Sample wt/vol: 5(mL) Date Analyzed: 12/01/2022 00:30

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.: 322343 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
76-13-1	Freon 113	ND		10	0.30
98-82-8	Isopropylbenzene	ND		5.0	0.20
79-20-9	Methyl acetate	ND		5.0	0.30
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20
108-87-2	Methylcyclohexane	ND		5.0	0.50
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
108-88-3	Toluene	ND		1.0	0.20
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
75-69-4	Trichlorofluoromethane	ND		1.0	0.20
75-01-4	Vinyl chloride	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		80-120
460-00-4	4-Bromofluorobenzene (Surr)	93		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		80-120
2037-26-5	Toluene-d8 (Surr)	101		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20221130-72248.b\WN30X46.D
Lims ID: 410-106360-E-2
Client ID: DUP-01_112022
Sample Type: Client
Inject. Date: 01-Dec-2022 00:30:30 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0072248-017
Operator ID: mec29284 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20221130-72248.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 01-Dec-2022 14:59:15 Calib Date: 27-Oct-2022 17:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1606

First Level Reviewer: ULCP Date: 01-Dec-2022 14:41:17

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Dichlorodifluoromethane	85		1.325				ND	
6 Chloromethane	50		1.457				ND	7
7 Vinyl chloride	62		1.530				ND	
10 Bromomethane	94		1.755				ND	7
11 Chloroethane	64		1.787				ND	7
14 Trichlorofluoromethane	101		2.002				ND	
19 1,1-Dichloroethene	96		2.342				ND	
20 Acetone	58	2.365	2.368	-0.003	38	1041	0.8987	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.381				ND	
24 Carbon disulfide	76		2.541				ND	7
27 Methyl acetate	43		2.660				ND	7
28 Methylene Chloride	84		2.753				ND	
* 29 t-Butyl alcohol-d10 (IS)	65	2.760	2.840	-0.080	1	450523	250.0	
33 trans-1,2-Dichloroethene	96		3.003				ND	
32 Methyl tert-butyl ether	73		3.013				ND	
35 1,1-Dichloroethane	63		3.388				ND	
40 cis-1,2-Dichloroethene	96		3.937				ND	7
41 2-Butanone (MEK)	43		3.947				ND	U
48 Chloroform	83		4.245				ND	
$ 50 Dibromofluoromethane (Surr)	113	4.399	4.406	-0.007	94	293267	50.1	
51 1,1,1-Trichloroethane	97		4.434				ND	
52 Cyclohexane	56		4.502				ND	
54 Carbon tetrachloride	117		4.598				ND	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	4.730	4.730	0.000	70	77869	49.6	
57 Benzene	78		4.797				ND	7
58 1,2-Dichloroethane	62		4.810				ND	7
* 61 Fluorobenzene (IS)	96	5.073	5.076	-0.003	99	1264894	50.0	
64 Trichloroethene	95		5.452				ND	
65 Methylcyclohexane	83		5.657				ND	
66 1,2-Dichloropropane	63		5.676				ND	
72 Dichlorobromomethane	83		5.965				ND	
77 cis-1,3-Dichloropropene	75		6.446				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
78 4-Methyl-2-pentanone (MIBK)	43		6.623				ND	7
$ 79 Toluene-d8 (Surr)	98	6.739	6.738	0.001	93	1197152	50.6	
80 Toluene	92		6.806				ND	
81 trans-1,3-Dichloropropene	75		7.053				ND	7
84 1,1,2-Trichloroethane	97		7.249				ND	
86 Tetrachloroethene	166		7.403				ND	
90 2-Hexanone	43		7.521				ND	7
91 Chlorodibromomethane	129		7.647				ND	
93 Ethylene Dibromide	107		7.749				ND	
* 94 Chlorobenzene-d5 (IS)	117	8.192	8.192	0.000	86	893502	50.0	
96 Chlorobenzene	112		8.218				ND	
98 Ethylbenzene	91		8.327				ND	7
99 m-Xylene & p-Xylene	106		8.430				ND	7
100 o-Xylene	106		8.766				ND	
101 Styrene	104		8.779				ND	7
102 Bromoform	173		8.921				ND	
103 Isopropylbenzene	105		9.075				ND	
$ 106 4-Bromofluorobenzene (Surr)	95	9.190	9.190	0.000	90	430203	46.7	
108 1,1,2,2-Tetrachloroethane	83		9.306				ND	
113 1,3,5-Trimethylbenzene	105		9.533				ND	
118 1,2,4-Trimethylbenzene	105		9.813				ND	
141 1,3-Dichlorobenzene	146		10.018				ND	7
* 144 1,4-Dichlorobenzene-d4	152	10.063	10.063	0.000	95	485044	50.0	
145 1,4-Dichlorobenzene	146		10.079				ND	
151 1,2-Dichlorobenzene	146		10.345				ND	
153 1,2-Dibromo-3-Chloropropane	75		10.881				ND	
S 155 Xylenes, Total	106		11.245				ND	7
156 1,2,4-Trichlorobenzene	180		11.436				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MSV_Cent_ISSS_00011 Amount Added: 5.00 Units: uL Run Reagent

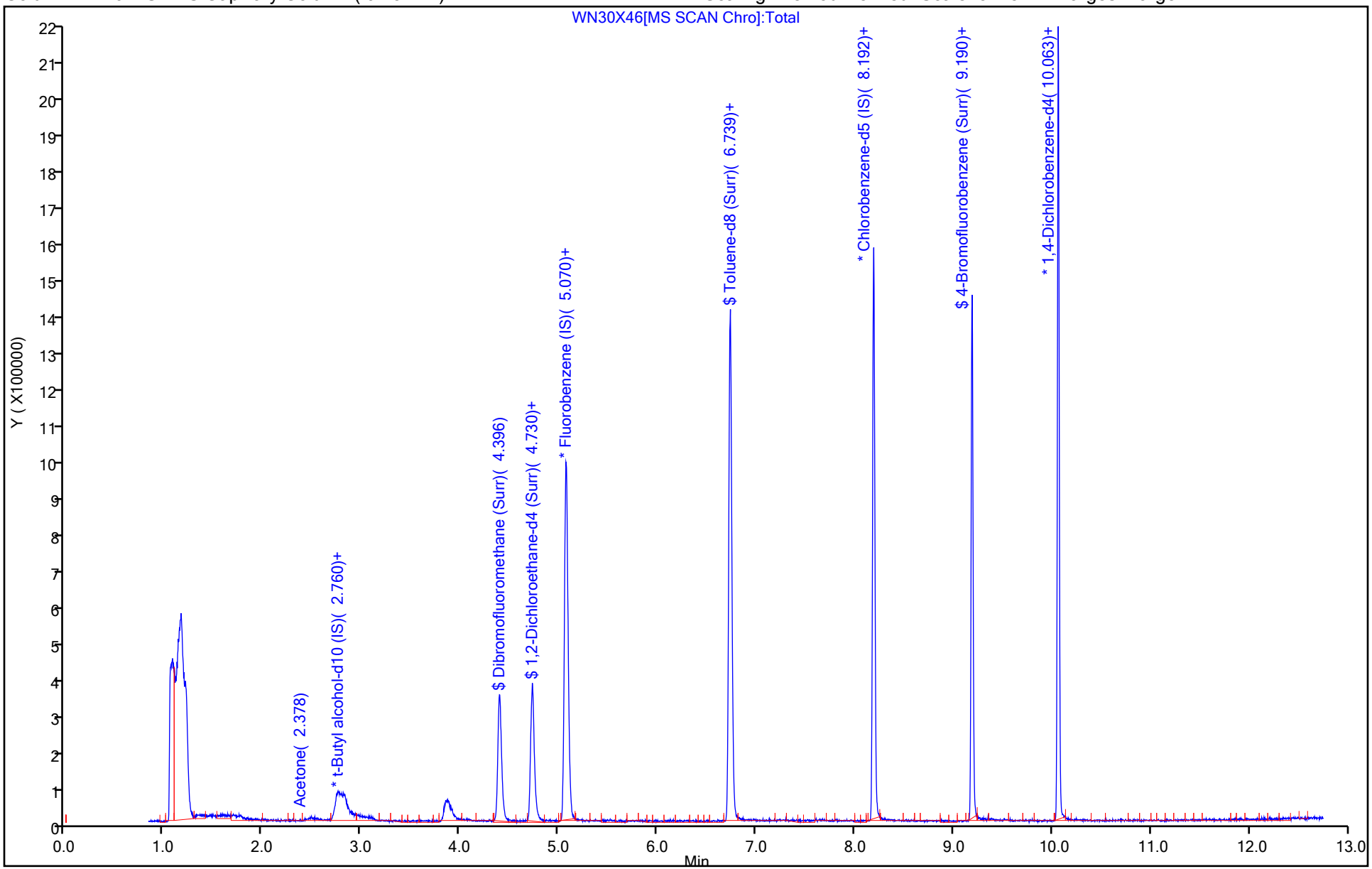
Report Date: 01-Dec-2022 14:59:57 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20221130-72248.b\WN30X46.D

Injection Date:	01-Dec-2022 00:30:30	Instrument ID:	9137	Operator ID:	mec29284
Lims ID:	410-106360-E-2	Lab Sample ID:	410-106360-2	Worklist Smp#:	17
Client ID:	DUP-01_112022				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	MSVoa_9137	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\9137\20221130-72248.b\WN30X46.D
Lims ID: 410-106360-E-2
Client ID: DUP-01_112022
Sample Type: Client
Inject. Date: 01-Dec-2022 00:30:30 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0072248-017
Operator ID: mec29284 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20221130-72248.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 01-Dec-2022 14:59:15 Calib Date: 27-Oct-2022 17:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1606

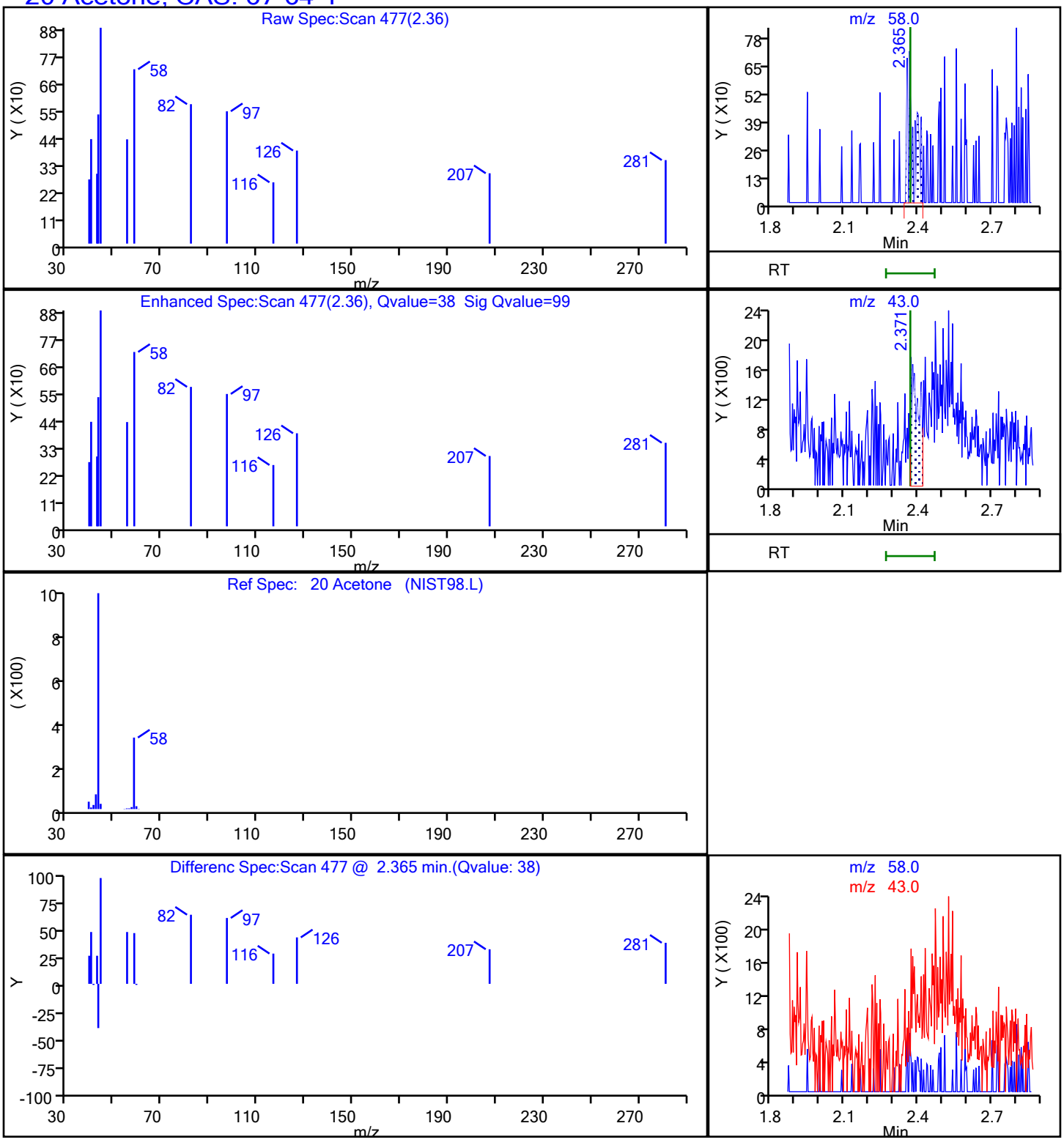
First Level Reviewer: ULCP Date: 01-Dec-2022 14:41:17

Compound	Amount Added	Amount Recovered	% Rec.
$ 50 Dibromofluoromethane (Surr)	50.0	50.1	100.14
$ 56 1,2-Dichloroethane-d4 (Surr)	50.0	49.6	99.27
$ 79 Toluene-d8 (Surr)	50.0	50.6	101.20
$ 106 4-Bromofluorobenzene (Surr)	50.0	46.7	93.37

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\9137\20221130-72248.b\WN30X46.D				
Injection Date:	01-Dec-2022 00:30:30	Instrument ID:	9137		
Lims ID:	410-106360-E-2	Lab Sample ID:	410-106360-2		
Client ID:	DUP-01_112022				
Operator ID:	mec29284	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

20 Acetone, CAS: 67-64-1



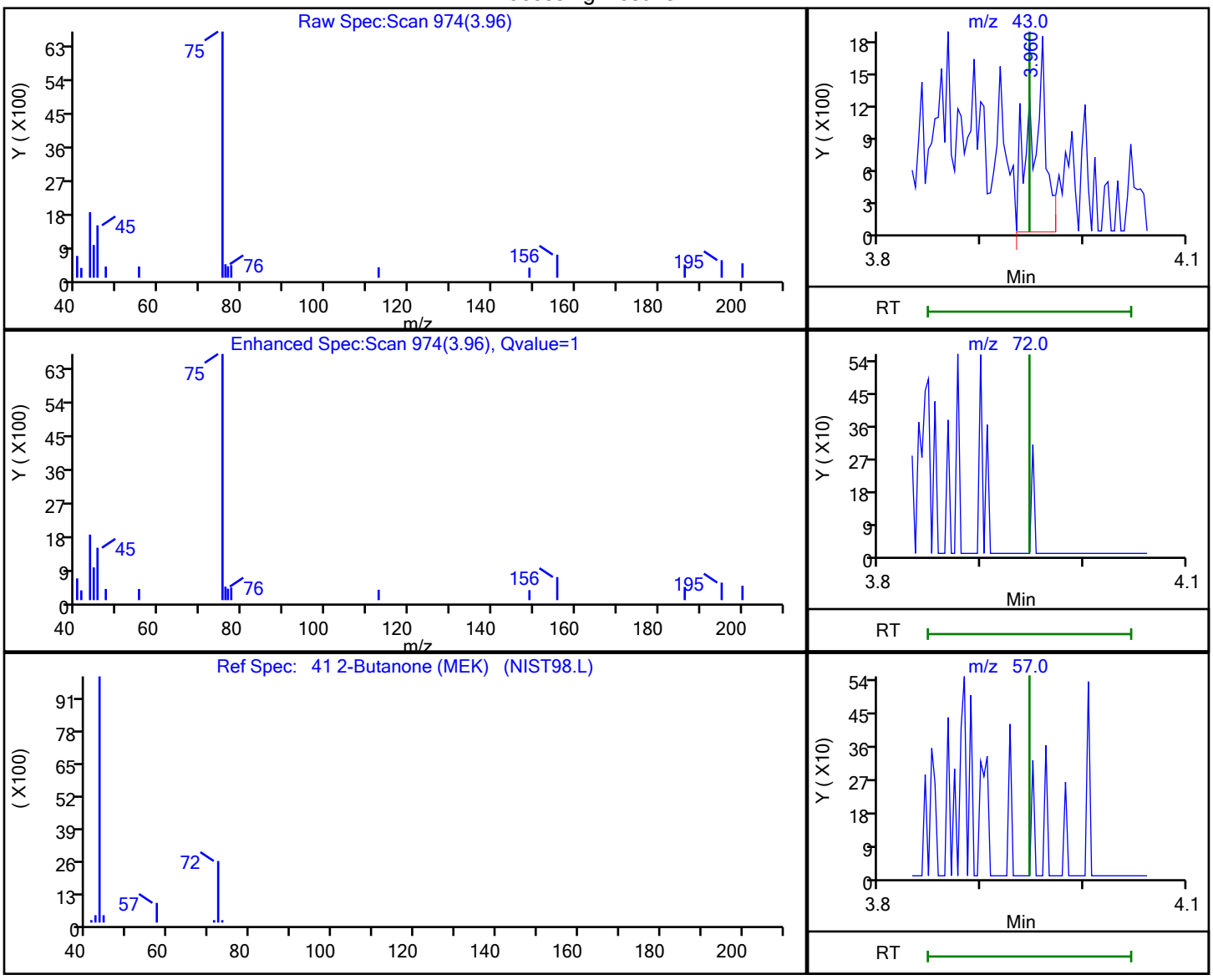
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\9137\20221130-72248.b\WN30X46.D				
Injection Date:	01-Dec-2022 00:30:30	Instrument ID:	9137		
Lims ID:	410-106360-E-2	Lab Sample ID:	410-106360-2		
Client ID:	DUP-01_112022				
Operator ID:	mec29284	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

41 2-Butanone (MEK), CAS: 78-93-3

Processing Results



RT	Mass	Response	Amount
3.96	43.00	1783	0.223374
3.95	72.00	0	
3.95	57.00	0	

Reviewer: ULCP, 01-Dec-2022 14:58:12

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.: 410-106360-1

SDG No.:

Client Sample ID: FBW001_112022 Lab Sample ID: 410-106360-3

Matrix: Water Lab File ID: WN30X41.D

Analysis Method: 8260C Date Collected: 11/17/2022 10:20

Sample wt/vol: 5(mL) Date Analyzed: 11/30/2022 22:51

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.: 322343 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
120-82-1	1,2,4-Trichlorobenzene	ND	F1	5.0	0.30
95-63-6	1,2,4-Trimethylbenzene	ND		5.0	1.0
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	0.30
106-93-4	1,2-Dibromoethane	ND		1.0	0.20
95-50-1	1,2-Dichlorobenzene	ND		5.0	0.20
107-06-2	1,2-Dichloroethane	ND		1.0	0.30
78-87-5	1,2-Dichloropropane	ND		1.0	0.30
108-67-8	1,3,5-Trimethylbenzene	ND		5.0	0.30
541-73-1	1,3-Dichlorobenzene	ND		5.0	0.68
106-46-7	1,4-Dichlorobenzene	ND		5.0	0.30
78-93-3	2-Butanone	ND		10	0.50
591-78-6	2-Hexanone	ND		10	0.85
108-10-1	4-Methyl-2-pentanone	ND		10	0.50
67-64-1	Acetone	ND	cn	20	0.70
71-43-2	Benzene	ND		1.0	0.30
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	0.20
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
110-82-7	Cyclohexane	ND		5.0	1.0
124-48-1	Dibromochloromethane	ND		1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-106360-1

SDG No.:

Client Sample ID: FBW001_112022 Lab Sample ID: 410-106360-3

Matrix: Water Lab File ID: WN30X41.D

Analysis Method: 8260C Date Collected: 11/17/2022 10:20

Sample wt/vol: 5(mL) Date Analyzed: 11/30/2022 22:51

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.: 322343 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
76-13-1	Freon 113	ND		10	0.30
98-82-8	Isopropylbenzene	ND	F1	5.0	0.20
79-20-9	Methyl acetate	ND	F2	5.0	0.30
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20
108-87-2	Methylcyclohexane	ND	F1	5.0	0.50
75-09-2	Methylene Chloride	ND		1.0	0.30
100-42-5	Styrene	ND		5.0	0.30
127-18-4	Tetrachloroethene	ND	F1	1.0	0.30
108-88-3	Toluene	ND		1.0	0.20
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
75-69-4	Trichlorofluoromethane	ND		1.0	0.20
75-01-4	Vinyl chloride	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	101		80-120
2037-26-5	Toluene-d8 (Surr)	102		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20221130-72248.b\WN30X41.D
Lims ID: 410-106360-E-3
Client ID: FBW001_112022
Sample Type: Client
Inject. Date: 30-Nov-2022 22:51:30 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0072248-012
Operator ID: mec29284 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20221130-72248.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 01-Dec-2022 14:43:17 Calib Date: 27-Oct-2022 17:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1606

First Level Reviewer: ULCP Date: 01-Dec-2022 14:10:10

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
A 1 C4-C10	1		(0.000-0.100)				ND	
A 2 C4-C12	1		(0.000-0.250)				ND	
3 Chlorotrifluoroethene	116		1.296				ND	
4 Chlorodifluoromethane	51		1.319				ND	7
5 Dichlorodifluoromethane	85		1.325				ND	
6 Chloromethane	50		1.457				ND	7
8 Butadiene	39		1.527				ND	7
7 Vinyl chloride	62		1.530				ND	
9 2-Chloro-1,1,1-Trifluoroethane	118		1.562				ND	7
10 Bromomethane	94		1.755				ND	7
11 Chloroethane	64		1.787				ND	7
12 Dichlorofluoromethane	67		1.941				ND	7
13 Pentane	43		1.999				ND	7
14 Trichlorofluoromethane	101		2.002				ND	
16 Ethanol	45		2.115				ND	
15 Ethyl ether	59		2.150				ND	
17 1,2-Dichloro-1,1,2-trifluoroetha	67		2.188				ND	
18 Acrolein	56		2.252				ND	7
19 1,1-Dichloroethene	96		2.342				ND	
20 Acetone	58	2.378	2.368	0.010	35	717	0.6136	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.381				ND	
23 Isopropyl alcohol	45		2.477				ND	
22 Iodomethane	142		2.483				ND	
24 Carbon disulfide	76		2.541				ND	7
25 3-Chloro-1-propene	41		2.647				ND	7
27 Methyl acetate	43		2.660				ND	7
26 Acetonitrile	41		2.666				ND	7
28 Methylene Chloride	84		2.753				ND	
* 29 t-Butyl alcohol-d10 (IS)	65	2.747	2.840	-0.093	44	454533	250.0	
30 2-Methyl-2-propanol	59		2.904				ND	7
31 Acrylonitrile	53		2.968				ND	
33 trans-1,2-Dichloroethene	96		3.003				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
32 Methyl tert-butyl ether	73		3.013				ND	7
34 Hexane	57		3.260				ND	
35 1,1-Dichloroethane	63		3.388				ND	
36 Vinyl acetate	43		3.436				ND	7
37 Isopropyl ether	45		3.456				ND	
38 2-Chloro-1,3-butadiene	53		3.472				ND	
39 Tert-butyl ethyl ether	59		3.802				ND	7
40 cis-1,2-Dichloroethene	96		3.937				ND	
41 2-Butanone (MEK)	43		3.947				ND	7
42 2,2-Dichloropropane	77		3.966				ND	7
44 Propionitrile	54		4.004				ND	7
43 Ethyl acetate	43		4.014				ND	7
45 Methacrylonitrile	67		4.146				ND	7
46 Chlorobromomethane	128		4.158				ND	
47 Tetrahydrofuran	71		4.216				ND	
48 Chloroform	83		4.245				ND	7
$ 50 Dibromofluoromethane (Surr)	113	4.396	4.406	-0.010	93	292890	50.3	
51 1,1,1-Trichloroethane	97		4.434				ND	
52 Cyclohexane	56		4.502				ND	
53 1,1-Dichloropropene	75		4.598				ND	
54 Carbon tetrachloride	117		4.598				ND	
55 Isobutyl alcohol	41		4.710				ND	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	4.727	4.730	-0.003	70	74490	47.7	
57 Benzene	78		4.797				ND	7
58 1,2-Dichloroethane	62		4.810				ND	7
59 Isopropyl acetate	43		4.881				ND	7
60 Tert-amyl methyl ether	73		4.916				ND	
* 61 Fluorobenzene (IS)	96	5.070	5.076	-0.006	99	1258250	50.0	
62 n-Heptane	43		5.079				ND	7
63 n-Butanol	56		5.384				ND	
64 Trichloroethene	95		5.452				ND	
65 Methylcyclohexane	83		5.657				ND	
66 1,2-Dichloropropane	63		5.676				ND	7
67 2-ethoxy-2-methyl butane	87		5.731				ND	
68 Dibromomethane	93		5.795				ND	
69 Methyl methacrylate	69		5.814				ND	
70 1,4-Dioxane	88		5.821				ND	
71 n-Propyl acetate	61		5.885				ND	7
72 Dichlorobromomethane	83		5.965				ND	
S 73 1,2-Dichloroethene, Total	100		6.155				ND	7
74 2-Nitropropane	41		6.209				ND	7
75 2-Chloroethyl vinyl ether	63		6.299				ND	
A 76 C6-C10	1	6.394	(2.952-9.836)		0	3858693	NC	
77 cis-1,3-Dichloropropene	75		6.446				ND	
78 4-Methyl-2-pentanone (MIBK)	43		6.623				ND	7
$ 79 Toluene-d8 (Surr)	98	6.735	6.738	-0.003	93	1175282	51.2	
80 Toluene	92		6.806				ND	7
81 trans-1,3-Dichloropropene	75		7.053				ND	
A 82 C5-C12	1	7.153	(2.686-11.621)		0	4066541	NC	
83 Ethyl methacrylate	69		7.178				ND	
84 1,1,2-Trichloroethane	97		7.249				ND	7
A 85 C6-C12	1	7.286	(2.952-11.621)		0	4066541	NC	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
86 Tetrachloroethene	166		7.403				ND	
87 1,3-Dichloropropane	76		7.422				ND	7
89 3,4-Dichloro-1-butene	75		7.470				ND	
88 t-Amyl alcohol	73		7.493				ND	
90 2-Hexanone	43		7.521				ND	7
91 Chlorodibromomethane	129		7.647				ND	
92 n-Butyl acetate	43		7.666				ND	7
93 Ethylene Dibromide	107		7.749				ND	
* 94 Chlorobenzene-d5 (IS)	117	8.192	8.192	0.000	86	866310	50.0	
95 1-Chlorohexane	91		8.211				ND	U
96 Chlorobenzene	112		8.218				ND	
97 1,1,1,2-Tetrachloroethane	131		8.295				ND	
98 Ethylbenzene	91		8.327				ND	
99 m-Xylene & p-Xylene	106		8.430				ND	
100 o-Xylene	106		8.766				ND	
101 Styrene	104		8.779				ND	
102 Bromoform	173		8.921				ND	
103 Isopropylbenzene	105		9.075				ND	
104 cis-1,4-Dichloro-2-butene	88		9.126				ND	
105 Cyclohexanone	55		9.139				ND	7
$ 106 4-Bromofluorobenzene (Surr)	95	9.190	9.190	0.000	90	426132	47.7	
107 Bromobenzene	156		9.306				ND	
108 1,1,2,2-Tetrachloroethane	83		9.306				ND	
109 1,2,3-Trichloropropane	110		9.334				ND	
110 trans-1,4-Dichloro-2-butene	53		9.351				ND	
111 N-Propylbenzene	91		9.395				ND	
112 2-Chlorotoluene	126		9.460				ND	
113 1,3,5-Trimethylbenzene	105		9.533				ND	
114 4-Chlorotoluene	126		9.543				ND	
115 2,3,4-Trichlorobutene	109		9.582				ND	
116 tert-Butylbenzene	134		9.781				ND	
117 Pentachloroethane	167		9.790				ND	
118 1,2,4-Trimethylbenzene	105		9.813				ND	
119 sec-Butylbenzene	105		9.941				ND	
T 127 n-Butyl acrylate TIC	55	10.057	10.000	0.057	24	1086	0.0432	
T 126 2,3-Dichloro-1,3-butadiene TIC	51	10.005	10.000	0.005	1	105	0.004172	
T 125 1-Bromo-2-chloroethane TIC	63	10.037	10.000	0.037	1	128	0.005086	
T 135 Propane TIC	43		10.000				ND	
T 124 Propanol TIC	57		10.000				ND	
T 134 Propene oxide TIC	58	10.092	10.000	0.092	1	170	0.006755	
T 123 Ethyl acrylate TIC	55	10.057	10.000	0.057	7	1086	0.0432	
T 120 tert-amyl alcohol TIC	59	10.053	10.000	0.053	18	56	0.002225	
T 128 Ethyl Acetate TIC	43		10.000				ND	
T 129 Hexachloroethane TIC	117	10.060	10.000	0.060	1	90575	3.60	
T 131 Propionaldehyde TIC	58	10.092	10.000	0.092	1	170	0.006755	
T 137 Vinyl acetate (TIC)	43		10.000				ND	
T 122 2,3,4-Trichlorobutene TIC	109	10.066	10.000	0.066	99	1647	0.0654	
T 130 1-Chlorobutane TIC	56	10.060	10.000	0.060	32	28631	1.14	
T 133 Isooctane TIC	57	10.012	10.000	0.012	1	104	0.004133	
T 136 Tetranitromethane TIC	46	10.602	10.000	0.602	1	167	0.006636	
T 132 Ethylene oxide TIC	43		10.000				ND	
T 138 Chloroacetaldehyde TIC	49	10.066	10.000	0.066	41	3210	0.1276	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
T 140 1,3-Dichlorobutene-2(total) TIC	89	10.063	10.000	0.063	23	13655	0.5426	
T 121 Bromoethane TIC	108	10.060	10.000	0.060	5	1379	0.0548	
T 139 Diethoxymethane TIC	59	10.053	10.000	0.053	8	56	0.002225	
141 1,3-Dichlorobenzene	146		10.018				ND	7
143 4-Isopropyltoluene	119		10.047				ND	
S 142 1,3-Dichloropropene, Total	100		10.060				ND	7
* 144 1,4-Dichlorobenzene-d4	152	10.063	10.063	0.000	95	478447	50.0	
145 1,4-Dichlorobenzene	146		10.079				ND	7
146 1,2,3-Trimethylbenzene	105		10.121				ND	
147 Benzyl chloride	91		10.178				ND	7
148 1,3-Diethylbenzene	119		10.262				ND	
149 p-Diethylbenzene	119		10.320				ND	
150 n-Butylbenzene	92		10.339				ND	
151 1,2-Dichlorobenzene	146		10.345				ND	
152 o-diethylbenzene	119		10.403				ND	
153 1,2-Dibromo-3-Chloropropane	75		10.881				ND	7
154 1,3,5-Trichlorobenzene	180		11.032				ND	
S 155 Xylenes, Total	106		11.245				ND	7
156 1,2,4-Trichlorobenzene	180		11.436				ND	
157 Hexachlorobutadiene	225		11.549				ND	
158 Naphthalene	128		11.600				ND	7
159 1,2,3-Trichlorobenzene	180		11.757				ND	
160 2-Methylnaphthalene	142		12.322				ND	
161 Hexachloroethane	201		13.560				ND	
162 tert-Butyl Formate	1		0.000				ND	
163 Methyl acrylate	1		0.000				ND	
164 2,3-Dichloro-1,3-butadiene	1		0.000				ND	
S 165 Total BTEX	1		0.000				ND	
166 3-chloro-1-Butene	1		0.000				ND	
167 1,1-Dichloro-1-fluoroethane	1		0.000				ND	
168 cis-1,2,3-Trichlorobutene-2	1		0.000				ND	
169 1-Chlorobutane	1		0.000				ND	
S 170 divinyl benzene	1		0.000				ND	7
171 1-Bromo-2-chloroethane	1		0.000				ND	
S 172 Total Diethylbenzene	1		0.000				ND	7
173 Ethyl bromide	1		0.000				ND	
174 Ethyl acrylate	55		0.000				ND	
175 1,3-Divinylbenzene	1		0.000				ND	
176 Propene oxide	1		0.000				ND	
177 trans-1,2,3-Trichlorobutene-2	1		0.000				ND	
178 3-Methyl-1-butene	1		0.000				ND	
179 Propanol	1		0.000				ND	
180 n-Nonane	1		0.000				ND	
181 Isobutyl acetate	43		0.000				ND	
182 n-Octane	1		0.000				ND	
183 Undecane	1		0.000				ND	
184 4-Ethyltoluene	1		0.000				ND	
185 sec-Butyl Alcohol	45		0.000				ND	
186 Diethoxymethane	1		0.000				ND	
187 1,4-Divinylbenzene	1		0.000				ND	
188 1,1,2,2-Tetrachloro-1,2-difluoro	1		0.000				ND	
192 Methylal	1		0.000				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
193 Chloroacetonitrile	1		0.000				ND	

QC Flag Legend

Processing Flags
- NC - Not Calibrated
- 7 - Failed Limit of Detection

Review Flags
- U - Marked Undetected

Reagents:

MSV_Cent_ISSS_00011 Amount Added: 5.00 Units: uL Run Reagent

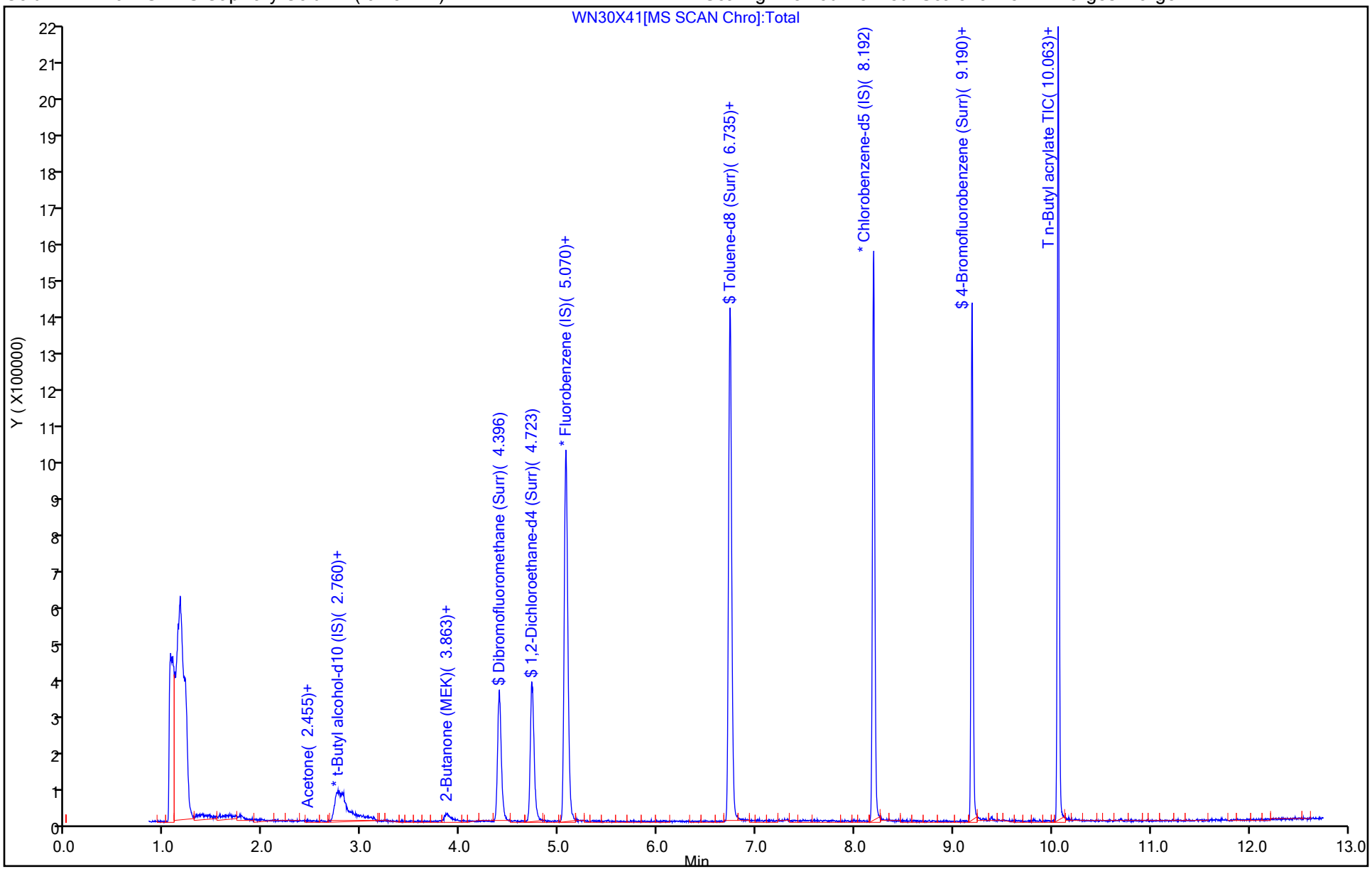
Report Date: 01-Dec-2022 14:47:21 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20221130-72248.b\WN30X41.D

Injection Date:	30-Nov-2022 22:51:30	Instrument ID:	9137	Operator ID:	mec29284
Lims ID:	410-106360-E-3	Lab Sample ID:	410-106360-3	Worklist Smp#:	12
Client ID:	FBW001_112022				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	MSVoa_9137	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\9137\20221130-72248.b\WN30X41.D				
Lims ID:	410-106360-E-3				
Client ID:	FBW001_112022				
Sample Type:	Client				
Inject. Date:	30-Nov-2022 22:51:30	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0072248-012				
Operator ID:	mec29284	Instrument ID:	9137		
Method:	\\chromfs\Lancaster\ChromData\9137\20221130-72248.b\MSVoa_9137.m				
Limit Group:	MSV - 8260C_D				
Last Update:	01-Dec-2022 14:43:17	Calib Date:	27-Oct-2022 17:46:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1606				

First Level Reviewer: ULCP Date: 01-Dec-2022 14:10:10

Compound	Amount Added	Amount Recovered	% Rec.
$ 50 Dibromofluoromethane (Surr)	50.0	50.3	100.54
$ 56 1,2-Dichloroethane-d4 (Surr)	50.0	47.7	95.46
$ 79 Toluene-d8 (Surr)	50.0	51.2	102.47
$ 106 4-Bromofluorobenzene (Surr)	50.0	47.7	95.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-106360-1

SDG No.:

Client Sample ID: FBW001_FB_112022 Lab Sample ID: 410-106360-4

Matrix: Water Lab File ID: WN30X37.D

Analysis Method: 8260C Date Collected: 11/17/2022 10:14

Sample wt/vol: 5(mL) Date Analyzed: 11/30/2022 21:33

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.: 322343 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
120-82-1	1,2,4-Trichlorobenzene	ND		5.0	0.30
95-63-6	1,2,4-Trimethylbenzene	ND		5.0	1.0
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	0.30
106-93-4	1,2-Dibromoethane	ND		1.0	0.20
95-50-1	1,2-Dichlorobenzene	ND		5.0	0.20
107-06-2	1,2-Dichloroethane	ND		1.0	0.30
78-87-5	1,2-Dichloropropane	ND		1.0	0.30
108-67-8	1,3,5-Trimethylbenzene	ND		5.0	0.30
541-73-1	1,3-Dichlorobenzene	ND		5.0	0.68
106-46-7	1,4-Dichlorobenzene	ND		5.0	0.30
78-93-3	2-Butanone	ND		10	0.50
591-78-6	2-Hexanone	ND		10	0.85
108-10-1	4-Methyl-2-pentanone	ND		10	0.50
67-64-1	Acetone	ND	cn	20	0.70
71-43-2	Benzene	ND		1.0	0.30
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	0.20
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
110-82-7	Cyclohexane	ND		5.0	1.0
124-48-1	Dibromochloromethane	ND		1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-106360-1

SDG No.:

Client Sample ID: FBW001_FB_112022 Lab Sample ID: 410-106360-4

Matrix: Water Lab File ID: WN30X37.D

Analysis Method: 8260C Date Collected: 11/17/2022 10:14

Sample wt/vol: 5(mL) Date Analyzed: 11/30/2022 21:33

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.: 322343 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
76-13-1	Freon 113	ND		10	0.30
98-82-8	Isopropylbenzene	ND		5.0	0.20
79-20-9	Methyl acetate	ND		5.0	0.30
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20
108-87-2	Methylcyclohexane	ND		5.0	0.50
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
108-88-3	Toluene	ND		1.0	0.20
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
75-69-4	Trichlorofluoromethane	ND		1.0	0.20
75-01-4	Vinyl chloride	ND		1.0	0.20
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)	99		80-120
2037-26-5	Toluene-d8 (Surr)	104		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20221130-72248.b\WN30X37.D
Lims ID: 410-106360-E-4
Client ID: FBW001_FB_112022
Sample Type: Client
Inject. Date: 30-Nov-2022 21:33:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0072248-008
Operator ID: mec29284 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20221130-72248.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 01-Dec-2022 14:43:17 Calib Date: 27-Oct-2022 17:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1606

First Level Reviewer: ULCP Date: 01-Dec-2022 14:08:07

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Dichlorodifluoromethane	85		1.325				ND	
6 Chloromethane	50		1.457				ND	7
7 Vinyl chloride	62		1.530				ND	
10 Bromomethane	94		1.755				ND	7
11 Chloroethane	64		1.787				ND	
14 Trichlorofluoromethane	101		2.002				ND	
19 1,1-Dichloroethene	96		2.342				ND	
20 Acetone	58		2.368				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.381				ND	
24 Carbon disulfide	76		2.541				ND	7
27 Methyl acetate	43		2.660				ND	7
28 Methylene Chloride	84		2.753				ND	7
* 29 t-Butyl alcohol-d10 (IS)	65	2.776	2.840	-0.064	45	546834	250.0	
33 trans-1,2-Dichloroethene	96		3.003				ND	
32 Methyl tert-butyl ether	73		3.013				ND	
35 1,1-Dichloroethane	63		3.388				ND	
40 cis-1,2-Dichloroethene	96		3.937				ND	
41 2-Butanone (MEK)	43		3.947				ND	7
48 Chloroform	83		4.245				ND	
$ 50 Dibromofluoromethane (Surr)	113	4.396	4.406	-0.010	93	297362	49.4	
51 1,1,1-Trichloroethane	97		4.434				ND	
52 Cyclohexane	56		4.502				ND	
54 Carbon tetrachloride	117		4.598				ND	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	4.727	4.730	-0.003	70	80264	49.8	
57 Benzene	78		4.797				ND	
58 1,2-Dichloroethane	62		4.810				ND	7
* 61 Fluorobenzene (IS)	96	5.070	5.076	-0.006	99	1298698	50.0	
64 Trichloroethene	95		5.452				ND	
65 Methylcyclohexane	83		5.657				ND	
66 1,2-Dichloropropane	63		5.676				ND	
72 Dichlorobromomethane	83		5.965				ND	
77 cis-1,3-Dichloropropene	75		6.446				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
78 4-Methyl-2-pentanone (MIBK)	43		6.623				ND	7
$ 79 Toluene-d8 (Surr)	98	6.735	6.738	-0.003	94	1245069	51.9	
80 Toluene	92		6.806				ND	
81 trans-1,3-Dichloropropene	75		7.053				ND	
84 1,1,2-Trichloroethane	97		7.249				ND	
86 Tetrachloroethene	166		7.403				ND	
90 2-Hexanone	43		7.521				ND	7
91 Chlorodibromomethane	129		7.647				ND	7
93 Ethylene Dibromide	107		7.749				ND	
* 94 Chlorobenzene-d5 (IS)	117	8.189	8.192	-0.003	86	905670	50.0	
96 Chlorobenzene	112		8.218				ND	
98 Ethylbenzene	91		8.327				ND	7
99 m-Xylene & p-Xylene	106		8.430				ND	7
100 o-Xylene	106		8.766				ND	
101 Styrene	104		8.779				ND	7
102 Bromoform	173		8.921				ND	
103 Isopropylbenzene	105		9.075				ND	
$ 106 4-Bromofluorobenzene (Surr)	95	9.187	9.190	-0.003	90	440207	47.1	
108 1,1,2,2-Tetrachloroethane	83		9.306				ND	
113 1,3,5-Trimethylbenzene	105		9.533				ND	
118 1,2,4-Trimethylbenzene	105		9.813				ND	
141 1,3-Dichlorobenzene	146		10.018				ND	7
* 144 1,4-Dichlorobenzene-d4	152	10.063	10.063	0.000	95	498648	50.0	
145 1,4-Dichlorobenzene	146		10.079				ND	7
151 1,2-Dichlorobenzene	146		10.345				ND	
153 1,2-Dibromo-3-Chloropropane	75		10.881				ND	
S 155 Xylenes, Total	106		11.245				ND	7
156 1,2,4-Trichlorobenzene	180		11.436				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

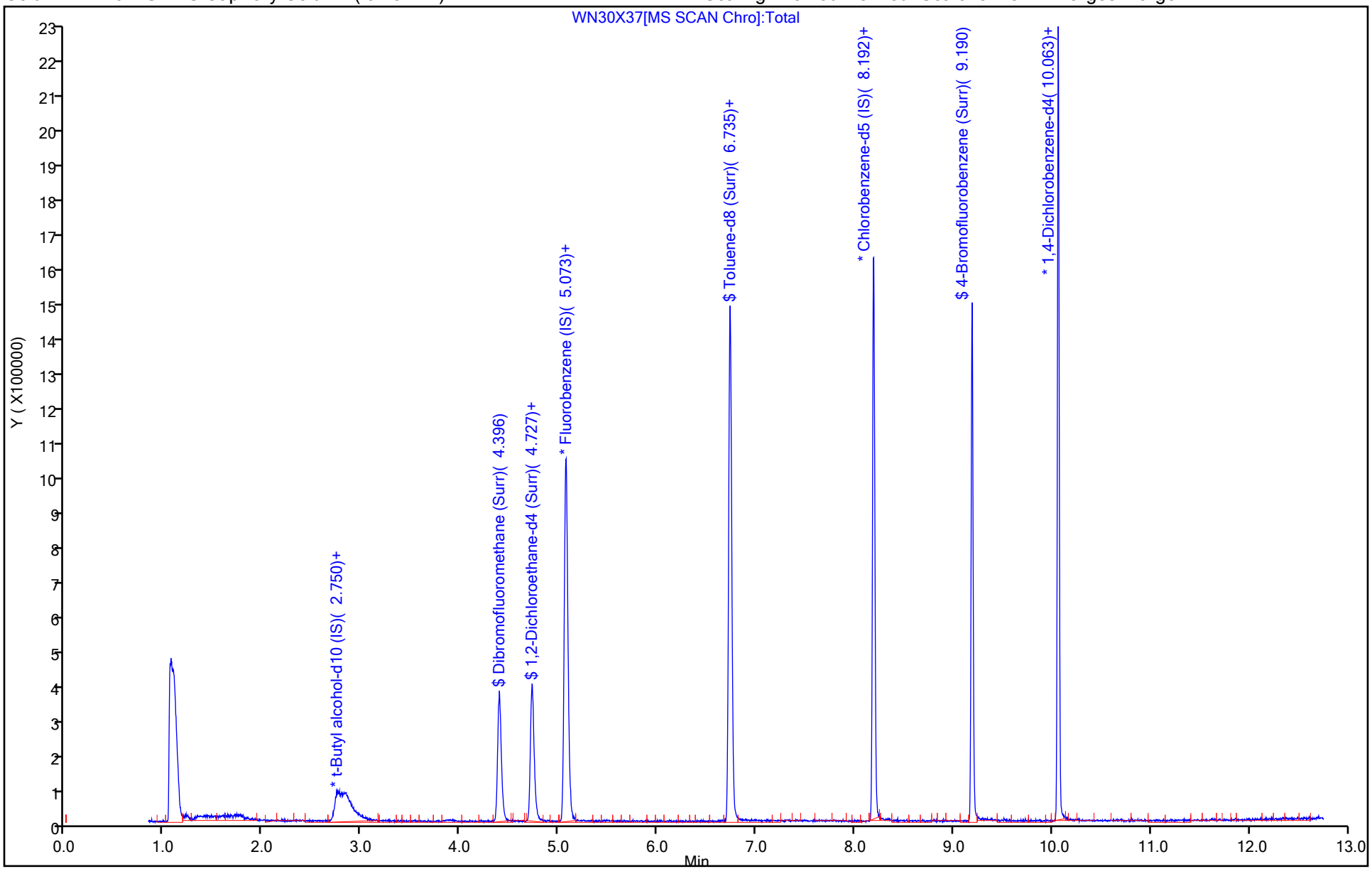
MSV_Cent_ISSS_00011 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 01-Dec-2022 14:47:08 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\9137\20221130-72248.b\WN30X37.D				
Injection Date:	30-Nov-2022 21:33:30	Instrument ID:	9137	Operator ID:	mec29284
Lims ID:	410-106360-E-4	Lab Sample ID:	410-106360-4	Worklist Smp#:	8
Client ID:	FBW001_FB_112022				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	MSVoa_9137	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\9137\20221130-72248.b\WN30X37.D				
Lims ID:	410-106360-E-4				
Client ID:	FBW001_FB_112022				
Sample Type:	Client				
Inject. Date:	30-Nov-2022 21:33:30	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0072248-008				
Operator ID:	mec29284	Instrument ID:	9137		
Method:	\\chromfs\Lancaster\ChromData\9137\20221130-72248.b\MSVoa_9137.m				
Limit Group:	MSV - 8260C_D				
Last Update:	01-Dec-2022 14:43:17	Calib Date:	27-Oct-2022 17:46:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1606				

First Level Reviewer: ULCP Date: 01-Dec-2022 14:08:07

Compound	Amount Added	Amount Recovered	% Rec.
$ 50 Dibromofluoromethane (Surr)	50.0	49.4	98.90
$ 56 1,2-Dichloroethane-d4 (Surr)	50.0	49.8	99.66
$ 79 Toluene-d8 (Surr)	50.0	51.9	103.84
$ 106 4-Bromofluorobenzene (Surr)	50.0	47.1	94.26

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-106360-1

SDG No.:

Client Sample ID: Trip Blank Lab Sample ID: 410-106360-5

Matrix: Water Lab File ID: WN30X38.D

Analysis Method: 8260C Date Collected: 11/17/2022 00:00

Sample wt/vol: 5(mL) Date Analyzed: 11/30/2022 21:53

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.: 322343 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
120-82-1	1,2,4-Trichlorobenzene	ND		5.0	0.30
95-63-6	1,2,4-Trimethylbenzene	ND		5.0	1.0
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	0.30
106-93-4	1,2-Dibromoethane	ND		1.0	0.20
95-50-1	1,2-Dichlorobenzene	ND		5.0	0.20
107-06-2	1,2-Dichloroethane	ND		1.0	0.30
78-87-5	1,2-Dichloropropane	ND		1.0	0.30
108-67-8	1,3,5-Trimethylbenzene	ND		5.0	0.30
541-73-1	1,3-Dichlorobenzene	ND		5.0	0.68
106-46-7	1,4-Dichlorobenzene	ND		5.0	0.30
78-93-3	2-Butanone	ND		10	0.50
591-78-6	2-Hexanone	ND		10	0.85
108-10-1	4-Methyl-2-pentanone	ND		10	0.50
67-64-1	Acetone	ND	cn	20	0.70
71-43-2	Benzene	ND		1.0	0.30
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	0.20
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
110-82-7	Cyclohexane	ND		5.0	1.0
124-48-1	Dibromochloromethane	ND		1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-106360-1

SDG No.:

Client Sample ID: Trip Blank Lab Sample ID: 410-106360-5

Matrix: Water Lab File ID: WN30X38.D

Analysis Method: 8260C Date Collected: 11/17/2022 00:00

Sample wt/vol: 5(mL) Date Analyzed: 11/30/2022 21:53

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.: 322343 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
76-13-1	Freon 113	ND		10	0.30
98-82-8	Isopropylbenzene	ND		5.0	0.20
79-20-9	Methyl acetate	ND		5.0	0.30
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20
108-87-2	Methylcyclohexane	ND		5.0	0.50
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
108-88-3	Toluene	ND		1.0	0.20
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
75-69-4	Trichlorofluoromethane	ND		1.0	0.20
75-01-4	Vinyl chloride	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		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)	93		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		80-120
2037-26-5	Toluene-d8 (Surr)	104		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20221130-72248.b\WN30X38.D
Lims ID: 410-106360-A-5
Client ID: Trip Blank
Sample Type: Client
Inject. Date: 30-Nov-2022 21:53:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0072248-009
Operator ID: mec29284 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20221130-72248.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 01-Dec-2022 14:43:17 Calib Date: 27-Oct-2022 17:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1606

First Level Reviewer: ULCP Date: 01-Dec-2022 14:08:25

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Dichlorodifluoromethane	85		1.325				ND	
6 Chloromethane	50		1.457				ND	7
7 Vinyl chloride	62		1.530				ND	
10 Bromomethane	94		1.755				ND	7
11 Chloroethane	64		1.787				ND	7
14 Trichlorofluoromethane	101		2.002				ND	
19 1,1-Dichloroethene	96		2.342				ND	
20 Acetone	58		2.368				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.381				ND	
24 Carbon disulfide	76		2.541				ND	7
27 Methyl acetate	43		2.660				ND	7
28 Methylene Chloride	84		2.753				ND	
* 29 t-Butyl alcohol-d10 (IS)	65	2.824	2.840	-0.016	1	487670	250.0	
33 trans-1,2-Dichloroethene	96		3.003				ND	7
32 Methyl tert-butyl ether	73		3.013				ND	
35 1,1-Dichloroethane	63		3.388				ND	
40 cis-1,2-Dichloroethene	96		3.937				ND	
41 2-Butanone (MEK)	43		3.947				ND	7
48 Chloroform	83		4.245				ND	7
$ 50 Dibromofluoromethane (Surr)	113	4.393	4.406	-0.013	94	289799	49.3	
51 1,1,1-Trichloroethane	97		4.434				ND	
52 Cyclohexane	56		4.502				ND	7
54 Carbon tetrachloride	117		4.598				ND	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	4.720	4.730	-0.010	70	79157	50.3	
57 Benzene	78		4.797				ND	7
58 1,2-Dichloroethane	62		4.810				ND	7
* 61 Fluorobenzene (IS)	96	5.070	5.076	-0.006	99	1268823	50.0	
64 Trichloroethene	95		5.452				ND	
65 Methylcyclohexane	83		5.657				ND	
66 1,2-Dichloropropane	63		5.676				ND	
72 Dichlorobromomethane	83		5.965				ND	
77 cis-1,3-Dichloropropene	75		6.446				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
78 4-Methyl-2-pentanone (MIBK)	43		6.623				ND	7
$ 79 Toluene-d8 (Surr)	98	6.735	6.738	-0.003	94	1199188	51.8	
80 Toluene	92		6.806				ND	
81 trans-1,3-Dichloropropene	75		7.053				ND	
84 1,1,2-Trichloroethane	97		7.249				ND	7
86 Tetrachloroethene	166		7.403				ND	
90 2-Hexanone	43		7.521				ND	7
91 Chlorodibromomethane	129		7.647				ND	
93 Ethylene Dibromide	107		7.749				ND	
* 94 Chlorobenzene-d5 (IS)	117	8.189	8.192	-0.003	86	874519	50.0	
96 Chlorobenzene	112		8.218				ND	
98 Ethylbenzene	91		8.327				ND	7
99 m-Xylene & p-Xylene	106		8.430				ND	
100 o-Xylene	106		8.766				ND	
101 Styrene	104		8.779				ND	
102 Bromoform	173		8.921				ND	
103 Isopropylbenzene	105		9.075				ND	
$ 106 4-Bromofluorobenzene (Surr)	95	9.190	9.190	0.000	90	419998	46.6	
108 1,1,2,2-Tetrachloroethane	83		9.306				ND	
113 1,3,5-Trimethylbenzene	105		9.533				ND	
118 1,2,4-Trimethylbenzene	105		9.813				ND	
141 1,3-Dichlorobenzene	146		10.018				ND	
* 144 1,4-Dichlorobenzene-d4	152	10.066	10.063	0.003	95	492128	50.0	
145 1,4-Dichlorobenzene	146		10.079				ND	
151 1,2-Dichlorobenzene	146		10.345				ND	
153 1,2-Dibromo-3-Chloropropane	75		10.881				ND	7
S 155 Xylenes, Total	106		11.245				ND	7
156 1,2,4-Trichlorobenzene	180		11.436				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

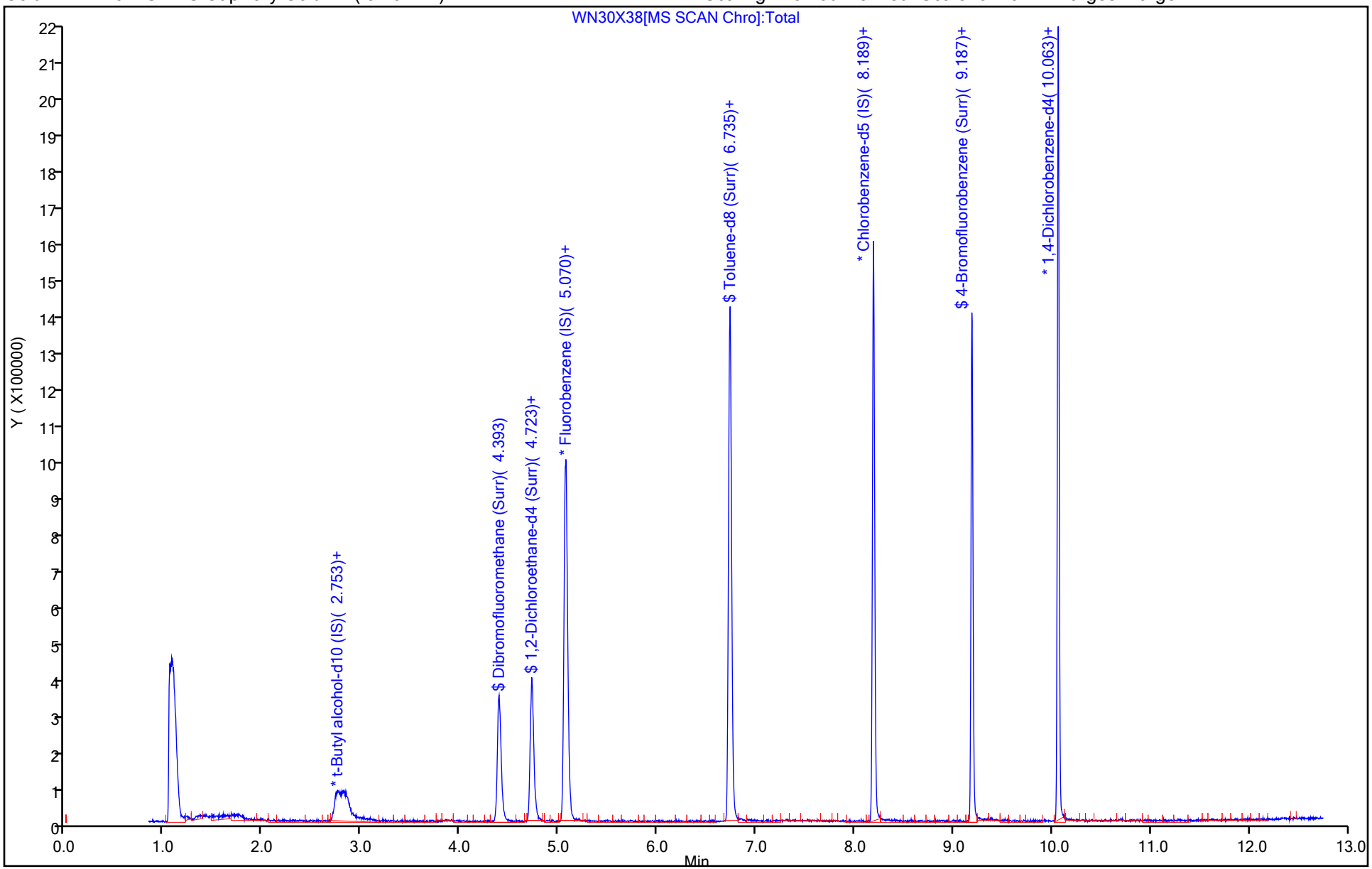
MSV_Cent_ISSS_00011 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 01-Dec-2022 14:47:11 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\9137\20221130-72248.b\WN30X38.D				
Injection Date:	30-Nov-2022 21:53:30	Instrument ID:	9137	Operator ID:	mec29284
Lims ID:	410-106360-A-5	Lab Sample ID:	410-106360-5	Worklist Smp#:	9
Client ID:	Trip Blank				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	MSVoa_9137	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\9137\20221130-72248.b\WN30X38.D				
Lims ID:	410-106360-A-5				
Client ID:	Trip Blank				
Sample Type:	Client				
Inject. Date:	30-Nov-2022 21:53:30	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0072248-009				
Operator ID:	mec29284	Instrument ID:	9137		
Method:	\\chromfs\Lancaster\ChromData\9137\20221130-72248.b\MSVoa_9137.m				
Limit Group:	MSV - 8260C_D				
Last Update:	01-Dec-2022 14:43:17	Calib Date:	27-Oct-2022 17:46:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1606				

First Level Reviewer: ULCP Date: 01-Dec-2022 14:08:25

Compound	Amount Added	Amount Recovered	% Rec.
$ 50 Dibromofluoromethane (Surr)	50.0	49.3	98.65
$ 56 1,2-Dichloroethane-d4 (Surr)	50.0	50.3	100.60
$ 79 Toluene-d8 (Surr)	50.0	51.8	103.58
$ 106 4-Bromofluorobenzene (Surr)	50.0	46.6	93.14

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1 Analy Batch No.: 311123

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/27/2022 13:09 Calibration End Date: 10/27/2022 14:47 Calibration ID: 43692

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-311123/8	WC27X07.D
Level 2	IC 410-311123/7	WC27X06.D
Level 3	IC 410-311123/6	WC27X05.D
Level 4	IC 410-311123/5	WC27X04.D
Level 5	IC 410-311123/4	WC27X03.D
Level 6	IC 410-311123/3	WC27X02.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Chlorotrifluoroethene	0.3375 0.3390	0.2947	0.3190	0.3138	0.3282	Ave		0.3220				5.2		20.0			
Chlorodifluoromethane	6.4371 5.5095	5.7769	5.4343	5.3103	5.2992	Ave		5.6279				7.7		20.0			
Freon 133a	0.4738 0.4700	0.4322	0.4411	0.4538	0.4601	Ave		0.4552				3.6		20.0			
Ethyl ether	0.2761 0.2849	0.2762	0.2749	0.2859	0.2810	Ave		0.2798				1.7		20.0			
Acetonitrile	1.2504 0.9672	1.2893	1.0424	1.0376	0.9874	Ave		1.0957				12.6		20.0			
Vinyl acetate	0.7466 0.8070	0.8025	0.7453	0.8063	0.8086	Ave		0.7860				4.0		20.0			
Ethyl acetate	0.5074 0.5619	0.5059	0.5095	0.5538	0.5456	Ave		0.5307				4.9		20.0			
Isopropyl acetate	0.8626 0.9926	0.8869	0.9254	0.9893	0.9755	Ave		0.9387				5.9		20.0			
n-Propyl acetate	0.1749 0.2231	0.1814	0.1888	0.2168	0.2117	Ave		0.1995				10.2		20.0			
3,4-Dichloro-1-butene	0.4307 0.4732	0.4355	0.4408	0.4876	0.4694	Ave		0.4562				5.2		20.0			
Butyl acetate	0.9296 0.9780	0.9556	0.9451	1.0212	1.0016	Ave		0.9719				3.6		20.0			
cis-1,4-Dichloro-2-butene	0.1801 0.2169	0.1777	0.1928	0.2199	0.2097	Ave		0.1995				9.3		20.0			
2,3,4-Trichlorobutene	0.6544 0.7123	0.6368	0.6387	0.7370	0.7066	Ave		0.6810				6.3		20.0			
Pentachloroethane	0.3903 0.4405	0.3818	0.3985	0.4356	0.4430	Ave		0.4150				6.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1 Analy Batch No.: 311123

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/27/2022 13:09 Calibration End Date: 10/27/2022 14:47 Calibration ID: 43692

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-311123/8	WC27X07.D
Level 2	IC 410-311123/7	WC27X06.D
Level 3	IC 410-311123/6	WC27X05.D
Level 4	IC 410-311123/5	WC27X04.D
Level 5	IC 410-311123/4	WC27X03.D
Level 6	IC 410-311123/3	WC27X02.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	36307 2568342	77224	169320	409260	851734	4.00 300	10.0	20.0	50.0	100
Chlorodifluoromethane	TBAd10	Ave	78053 5126568	179631	338913	848964	1700651	4.00 300	10.0	20.0	50.0	100
Freon 133a	FB	Ave	50975 3560323	113245	234144	591870	1194268	4.00 300	10.0	20.0	50.0	100
Ethyl ether	FB	Ave	29708 2158639	72389	145960	373061	729557	4.00 300	10.0	20.0	50.0	100
Acetonitrile	TBAd10	Ave	75807 4499703	200447	325036	829426	1584420	20.0 1500	50.0	100	250	500
Vinyl acetate	FB	Ave	80314 6113272	210299	395615	1051614	2098746	4.00 300	10.0	20.0	50.0	100
Ethyl acetate	FB	Ave	54587 4256375	132564	270449	722318	1416232	4.00 300	10.0	20.0	50.0	100
Isopropyl acetate	FB	Ave	92793 7519398	232400	491195	1290294	2532011	4.00 300	10.0	20.0	50.0	100
n-Propyl acetate	FB	Ave	18817 1690270	47546	100226	282759	549476	4.00 300	10.0	20.0	50.0	100
3,4-Dichloro-1-butene	CBZd5	Ave	35247 3021027	88966	184830	512772	993073	4.00 300	9.99	20.0	50.0	99.9
Butyl acetate	CBZd5	Ave	76122 6248580	195367	396607	1074698	2120690	4.00 300	10.0	20.0	50.0	100

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1 Analy Batch No.: 311123

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/27/2022 13:09 Calibration End Date: 10/27/2022 14:47 Calibration ID: 43692

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
cis-1,4-Dichloro-2-butene	CBZd 5	Ave	14746 1385301	36322	80872	231357	443795	4.00 300	10.00	20.0	50.0	100.0
2,3,4-Trichlorobutene	DCBd 4	Ave	30607 2566038	73371	151510	441705	847420	4.00 300	10.00	20.0	50.0	100.0
Pentachloroethane	DCBd 4	Ave	18256 1586977	43988	94543	261059	531232	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 Env Job No.: 410-106360-1 Analy Batch No.: 311123

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/27/2022 13:09 Calibration End Date: 10/27/2022 14:47 Calibration ID: 43692

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-311123/8	WC27X07.D
Level 2	IC 410-311123/7	WC27X06.D
Level 3	IC 410-311123/6	WC27X05.D
Level 4	IC 410-311123/5	WC27X04.D
Level 5	IC 410-311123/4	WC27X03.D
Level 6	IC 410-311123/3	WC27X02.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	4.8	-8.5	-0.9	-2.6	1.9	5.3	50	30	30	30	30	30
Chlorodifluoromethane	14.4	2.6	-3.4	-5.6	-5.8	-2.1	50	30	30	30	30	30
Freon 133a	4.1	-5.1	-3.1	-0.3	1.1	3.3	50	30	30	30	30	30
Ethyl ether	-1.3	-1.3	-1.8	2.2	0.4	1.8	50	30	30	30	30	30
Acetonitrile	14.1	17.7	-4.9	-5.3	-9.9	-11.7	50	30	30	30	30	30
Vinyl acetate	-5.0	2.1	-5.2	2.6	2.9	2.7	50	30	30	30	30	30
Ethyl acetate	-4.4	-4.7	-4.0	4.4	2.8	5.9	50	30	30	30	30	30
Isopropyl acetate	-8.1	-5.5	-1.4	5.4	3.9	5.7	50	30	30	30	30	30
n-Propyl acetate	-12.3	-9.0	-5.3	8.7	6.1	11.9	50	30	30	30	30	30
3,4-Dichloro-1-butene	-5.6	-4.5	-3.4	6.9	2.9	3.7	50	30	30	30	30	30
Butyl acetate	-4.4	-1.7	-2.8	5.1	3.1	0.6	50	30	30	30	30	30
cis-1,4-Dichloro-2-butene	-9.7	-10.9	-3.4	10.2	5.1	8.7	50	30	30	30	30	30
2,3,4-Trichlorobutene	-3.9	-6.5	-6.2	8.2	3.8	4.6	50	30	30	30	30	30
Pentachloroethane	-5.9	-8.0	-4.0	5.0	6.7	6.2	50	30	30	30	30	30

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X02.D
Lims ID: IC sm v300
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 27-Oct-2022 13:09:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0069757-003
Misc. Info.: IC SM V300
Operator ID: lcp00895 Instrument ID: 9137
Sublist: chrom-MSVoa_9137*sub38

Method: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 29-Oct-2022 01:14:26 Calib Date: 27-Oct-2022 17:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1618

First Level Reviewer: ULCP Date: 27-Oct-2022 15:46:50

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Chlorotrifluoroethene	116	1.287	1.296	-0.010	96	2568342	300.0	315.9	
4 Chlorodifluoromethane	51	1.319	1.319	0.000	99	5126568	300.0	293.7	
9 2-Chloro-1,1,1-Trifluoroethane	118	1.556	1.562	-0.006	46	3560323	300.0	309.8	
15 Ethyl ether	59	2.146	2.150	-0.004	94	2158639	300.1	305.5	
26 Acetonitrile	41	2.612	2.666	-0.054	99	4499703	1500.0	1324.0	
* 29 t-Butyl alcohol-d10 (IS)	65	2.843	2.849	-0.006	30	775418	250.0	250.0	
36 Vinyl acetate	43	3.430	3.436	-0.006	97	6113272	300.0	308.0	
43 Ethyl acetate	43	4.008	4.014	-0.006	99	4256375	300.0	317.6	
59 Isopropyl acetate	43	4.884	4.881	0.004	98	7519398	300.0	317.2	
* 61 Fluorobenzene (IS)	96	5.079	5.073	0.006	99	1262537	50.0	50.0	
71 n-Propyl acetate	61	5.882	5.885	-0.003	99	1690270	300.0	335.6	
89 3,4-Dichloro-1-butene	75	7.467	7.470	-0.003	93	3021027	299.8	310.9	
92 n-Butyl acetate	43	7.663	7.666	-0.003	99	6248580	300.0	301.9	
* 94 Chlorobenzene-d5 (IS)	117	8.192	8.192	0.000	87	1064873	50.0	50.0	
104 cis-1,4-Dichloro-2-butene	88	9.123	9.126	-0.003	30	1385301	299.9	326.0	
115 2,3,4-Trichlorobutene	109	9.582	9.582	0.000	0	2566038	300.0	313.8	
117 Pentachloroethane	167	9.790	9.790	0.000	94	1586977	300.0	318.5	
* 144 1,4-Dichlorobenzene-d4	152	10.066	10.063	0.003	96	600434	50.0	50.0	

QC Flag Legend
Processing Flags

Reagents:

MSV_CCV_Penta_00025	Amount Added:	15.00	Units: uL
MSV_CCV_EE_00003	Amount Added:	15.00	Units: uL
MSV_CCV_V5ACE_00016	Amount Added:	15.00	Units: uL
MSV_Cent_IS_O_00007	Amount Added:	5.00	Units: uL
MSV_CCV_LKB_00002	Amount Added:	15.00	Units: uL
MSV_V_SMFreon_00020	Amount Added:	7.50	Units: uL

Report Date: 29-Oct-2022 01:14:26 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X02.D

Injection Date: 27-Oct-2022 13:09:30 Instrument ID: 9137 Operator ID: lcp00895

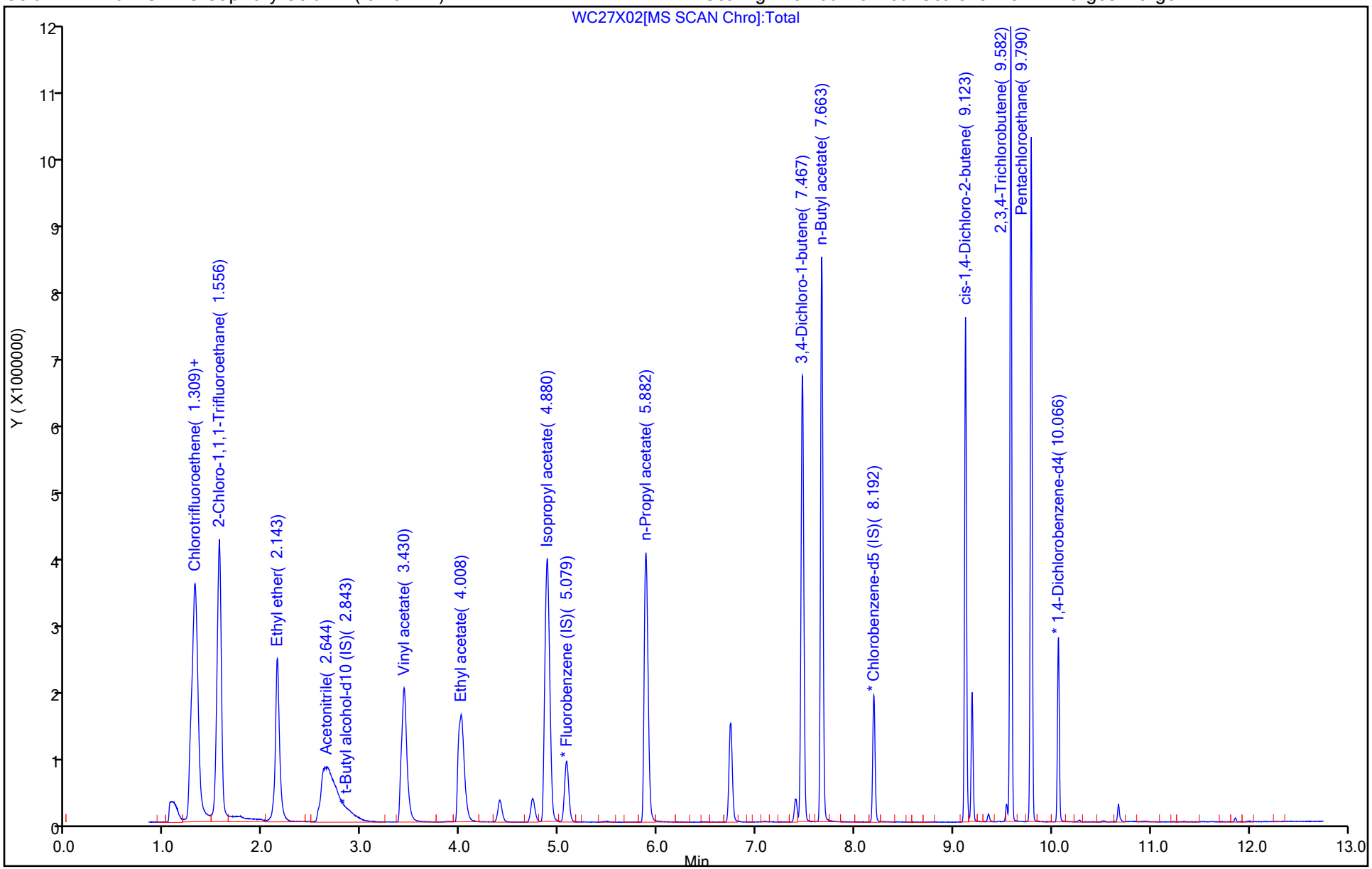
Lims ID: IC sm v300 Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 2

Method: MSVoa_9137 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\9137\20221027-69757.b\WC27X03.D
Lims ID: IC sm v100
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 27-Oct-2022 13:29:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0069757-004
Misc. Info.: IC SM V100
Operator ID: lcp00895 Instrument ID: 9137
Sublist: chrom-MSVoa_9137*sub38

Method: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 29-Oct-2022 01:14:27 Calib Date: 27-Oct-2022 17:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1618

First Level Reviewer: ULCP Date: 27-Oct-2022 15:57:58

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Chlorotrifluoroethene	116	1.284	1.284	0.000	94	851734	100.0	101.9	
4 Chlorodifluoromethane	51	1.309	1.309	0.000	99	1700651	100.0	94.2	
9 2-Chloro-1,1,1-Trifluoroethane	118	1.556	1.556	0.000	67	1194268	100.0	101.1	
15 Ethyl ether	59	2.140	2.140	0.000	93	729557	100.0	100.4	
26 Acetonitrile	41	2.628	2.628	0.000	97	1584420	500.0	450.6	
* 29 t-Butyl alcohol-d10 (IS)	65	2.853	2.853	0.000	15	802315	250.0	250.0	
36 Vinyl acetate	43	3.427	3.427	0.000	97	2098746	100.0	102.9	
43 Ethyl acetate	43	3.995	3.995	0.000	99	1416232	100.0	102.8	
59 Isopropyl acetate	43	4.877	4.877	0.000	98	2532011	100.0	103.9	
* 61 Fluorobenzene (IS)	96	5.076	5.076	0.000	99	1297763	50.0	50.0	
71 n-Propyl acetate	61	5.882	5.882	0.000	99	549476	100.0	106.1	
89 3,4-Dichloro-1-butene	75	7.467	7.467	0.000	92	993073	99.9	102.8	
92 n-Butyl acetate	43	7.663	7.663	0.000	98	2120690	100.0	103.1	
* 94 Chlorobenzene-d5 (IS)	117	8.192	8.192	0.000	87	1058623	50.0	50.0	
104 cis-1,4-Dichloro-2-butene	88	9.123	9.123	0.000	30	443795	100.0	105.1	
115 2,3,4-Trichlorobutene	109	9.582	9.582	0.000	0	847420	100.0	103.8	
117 Pentachloroethane	167	9.790	9.790	0.000	94	531232	100.0	106.7	
* 144 1,4-Dichlorobenzene-d4	152	10.063	10.063	0.000	96	599638	50.0	50.0	

QC Flag Legend
Processing Flags

Reagents:

MSV_CCV_Penta_00025	Amount Added:	5.00	Units: uL
MSV_CCV_EE_00003	Amount Added:	5.00	Units: uL
MSV_CCV_V5ACE_00016	Amount Added:	5.00	Units: uL
MSV_Cent_IS_O_00007	Amount Added:	5.00	Units: uL
MSV_CCV_LKB_00002	Amount Added:	5.00	Units: uL
MSV_V_SMFreon_00020	Amount Added:	2.50	Units: uL

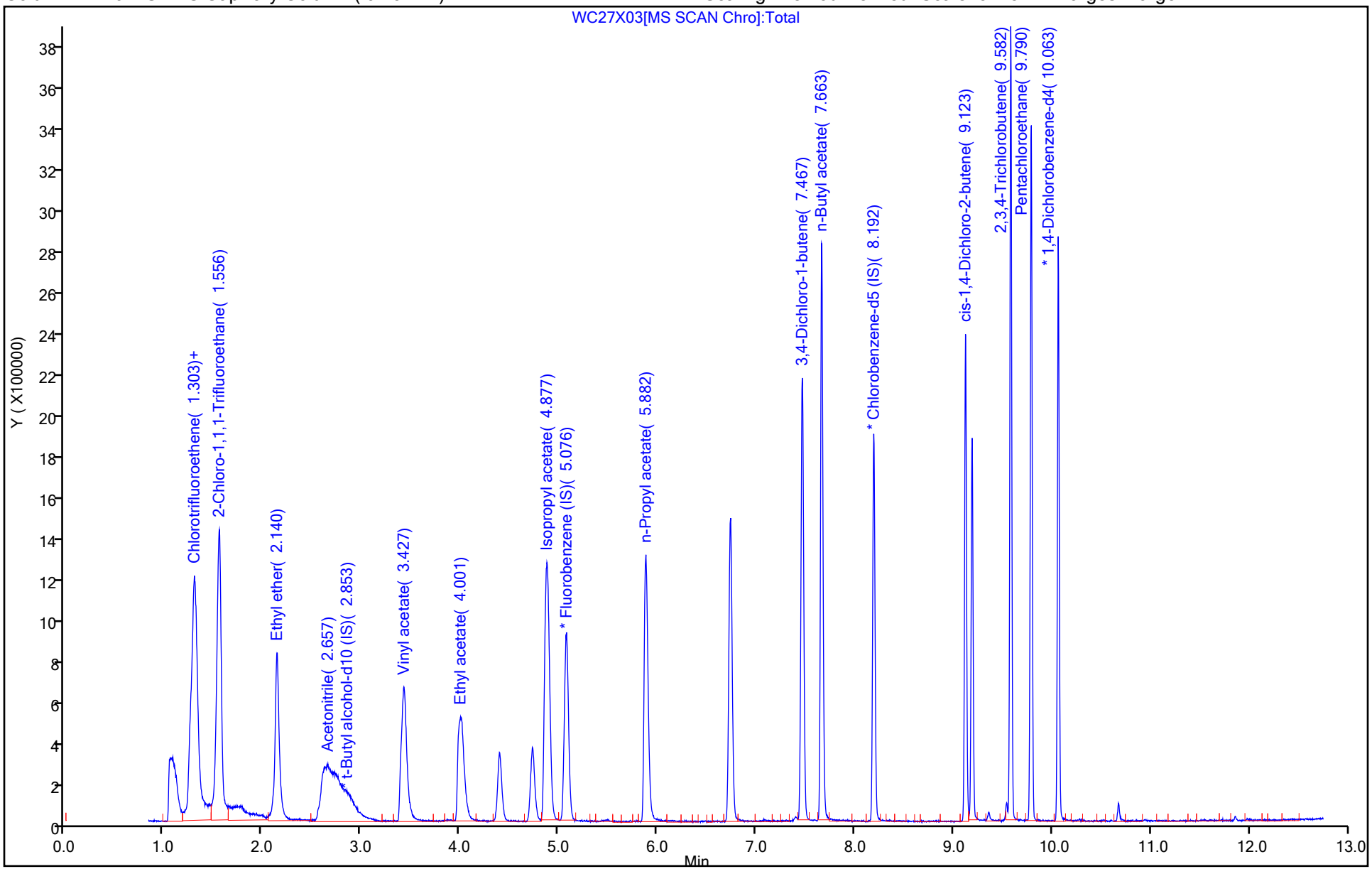
Report Date: 29-Oct-2022 01:14:27 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X03.D

Injection Date:	27-Oct-2022 13:29:30	Instrument ID:	9137	Operator ID:	lcp00895
Lims ID:	IC sm v100			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	MSVoa_9137	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\9137\20221027-69757.b\WC27X04.D
Lims ID: IC sm v50
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 27-Oct-2022 13:49:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0069757-005
Misc. Info.: IC SM V50
Operator ID: lcp00895 Instrument ID: 9137
Sublist: chrom-MSVoa_9137*sub38

Method: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 29-Oct-2022 01:14:29 Calib Date: 27-Oct-2022 17:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1618

First Level Reviewer: ULCP Date: 27-Oct-2022 16:01:39

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Chlorotrifluoroethene	116	1.296	1.296	0.000	94	409260	50.0	48.7	
4 Chlorodifluoromethane	51	1.319	1.319	0.000	99	848964	50.0	47.2	
9 2-Chloro-1,1,1-Trifluoroethane	118	1.562	1.562	0.000	81	591870	50.0	49.8	
15 Ethyl ether	59	2.150	2.150	0.000	93	373061	50.0	51.1	
26 Acetonitrile	41	2.666	2.666	0.000	98	829426	250.0	236.7	
* 29 t-Butyl alcohol-d10 (IS)	65	2.865	2.865	0.000	44	799352	250.0	250.0	
36 Vinyl acetate	43	3.436	3.436	0.000	97	1051614	50.0	51.3	
43 Ethyl acetate	43	4.014	4.014	0.000	99	722318	50.0	52.2	
59 Isopropyl acetate	43	4.881	4.881	0.000	98	1290294	50.0	52.7	
* 61 Fluorobenzene (IS)	96	5.076	5.076	0.000	99	1304315	50.0	50.0	
71 n-Propyl acetate	61	5.885	5.885	0.000	99	282759	50.0	54.3	
89 3,4-Dichloro-1-butene	75	7.470	7.470	0.000	92	512772	50.0	53.4	
92 n-Butyl acetate	43	7.666	7.666	0.000	99	1074698	50.0	52.5	
* 94 Chlorobenzene-d5 (IS)	117	8.195	8.195	0.000	87	1052360	50.0	50.0	
104 cis-1,4-Dichloro-2-butene	88	9.126	9.126	0.000	33	231357	50.0	55.1	a
115 2,3,4-Trichlorobutene	109	9.582	9.582	0.000	0	441705	50.0	54.1	
117 Pentachloroethane	167	9.790	9.790	0.000	93	261059	50.0	52.5	
* 144 1,4-Dichlorobenzene-d4	152	10.066	10.066	0.000	96	599296	50.0	50.0	

QC Flag Legend

Processing Flags
Review Flags
a - User Assigned ID

Reagents:

MSV_CCV_Penta_00025	Amount Added:	5.00	Units: uL
MSV_CCV_EE_00003	Amount Added:	5.00	Units: uL
MSV_CCV_V5ACE_00016	Amount Added:	5.00	Units: uL
MSV_Cent_IS_O_00007	Amount Added:	5.00	Units: uL
MSV_CCV_LKB_00002	Amount Added:	5.00	Units: uL
MSV_V_SMFreon_00020	Amount Added:	2.50	Units: uL

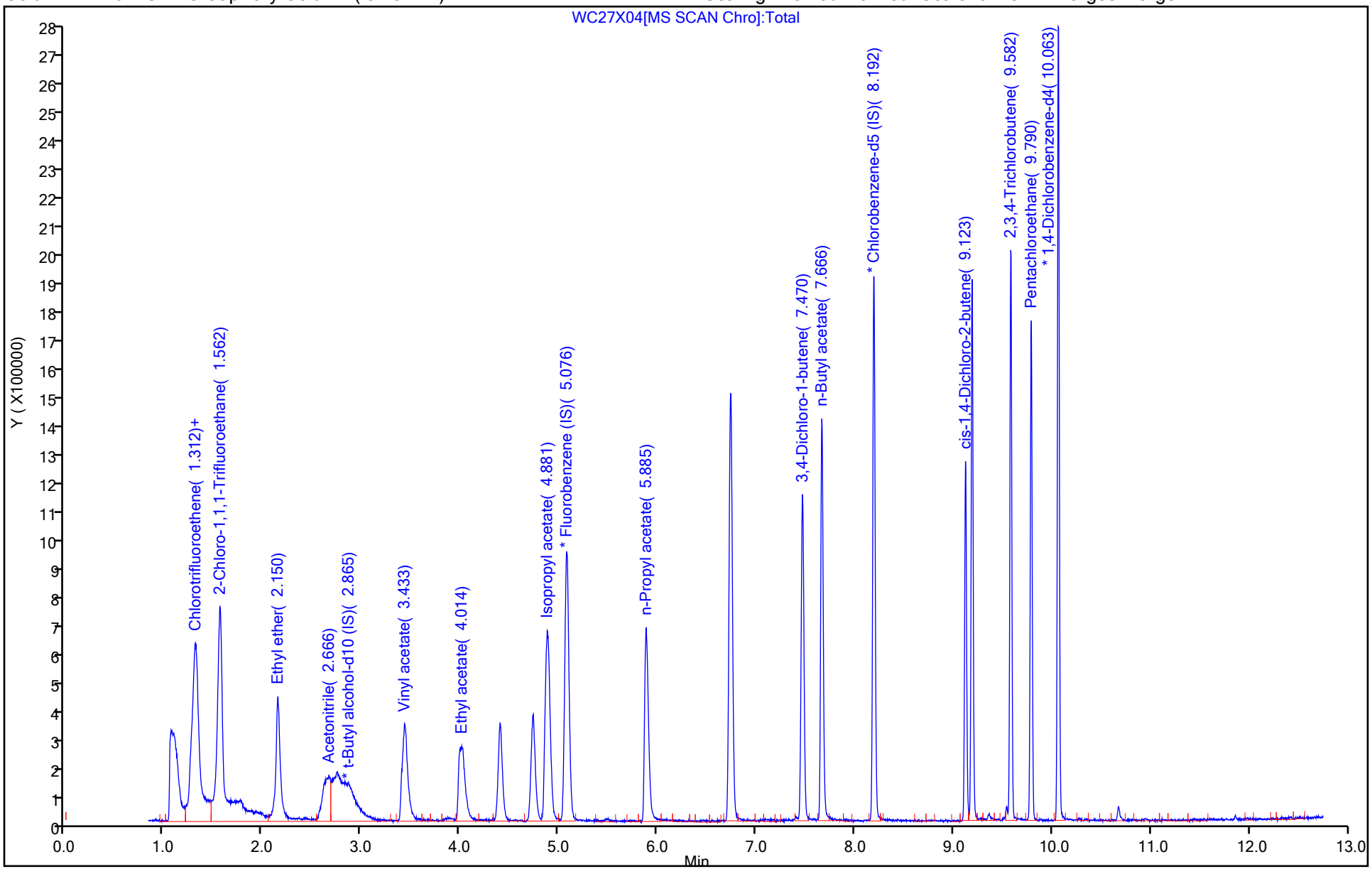
Report Date: 29-Oct-2022 01:14:29 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X04.D

Injection Date:	27-Oct-2022 13:49:30	Instrument ID:	9137	Operator ID:	lcp00895
Lims ID:	IC sm v50			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	MSVoa_9137	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

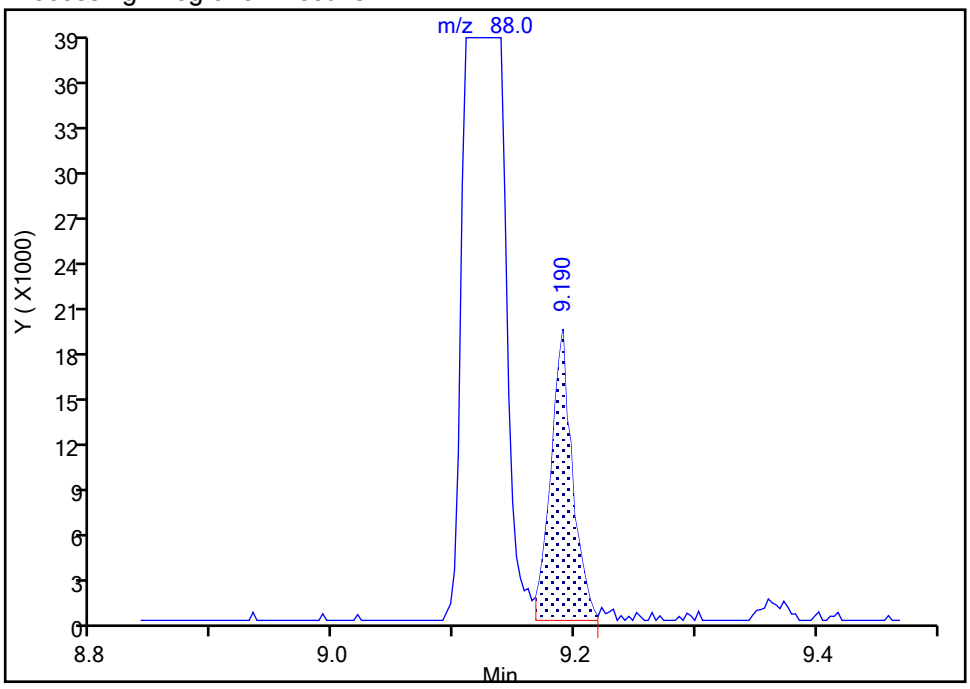
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X04.D
Injection Date: 27-Oct-2022 13:49:30 Instrument ID: 9137
Lims ID: IC sm v50
Client ID:
Operator ID: lcp00895 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

104 cis-1,4-Dichloro-2-butene, CAS: 1476-11-5

Signal: 1

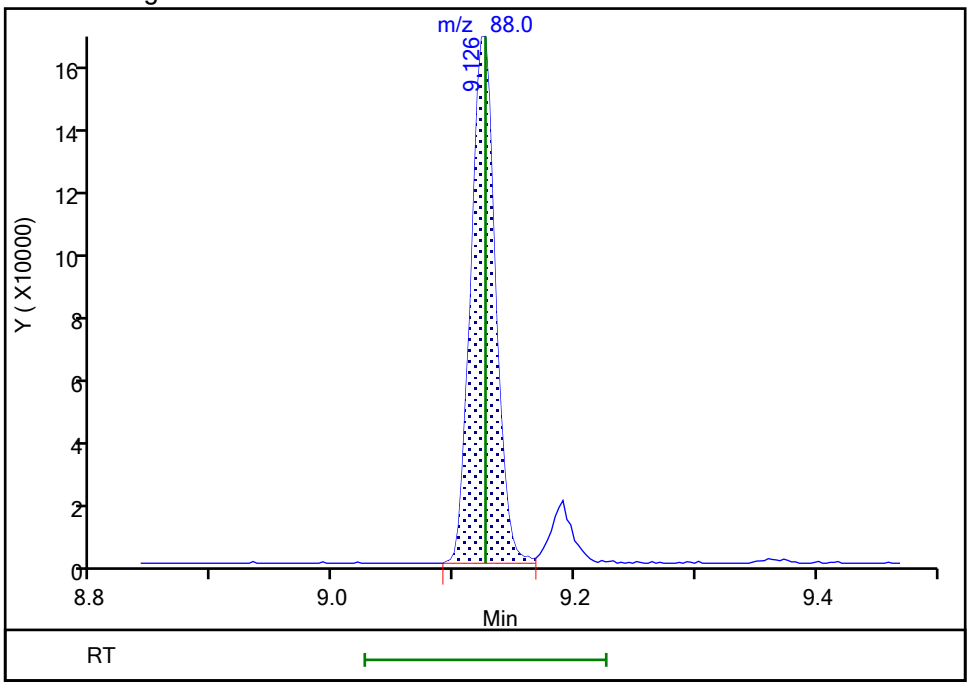
Processing Integration Results

RT: 9.19
Area: 23989
Amount: 8.589094
Amount Units: ug/l



Manual Integration Results

RT: 9.13
Area: 231357
Amount: 55.099154
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:21:00
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X05.D
Lims ID: IC sm v20
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 27-Oct-2022 14:08:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0069757-006
Misc. Info.: IC SM V20
Operator ID: lcp00895 Instrument ID: 9137
Sublist: chrom-MSVoa_9137*sub38

Method: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 29-Oct-2022 01:14:30 Calib Date: 27-Oct-2022 17:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1618

First Level Reviewer: K4WN Date: 29-Oct-2022 00:21:21

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Chlorotrifluoroethene	116	1.287	1.296	-0.009	95	169320	20.0	19.8	
4 Chlorodifluoromethane	51	1.312	1.319	-0.007	97	338913	20.0	19.3	
9 2-Chloro-1,1,1-Trifluoroethane	118	1.559	1.562	-0.003	35	234144	20.0	19.4	
15 Ethyl ether	59	2.150	2.150	0.000	93	145960	20.0	19.7	
26 Acetonitrile	41	2.644	2.666	-0.022	93	325036	100.0	95.1	
* 29 t-Butyl alcohol-d10 (IS)	65	2.856	2.865	-0.009	10	779565	250.0	250.0	
36 Vinyl acetate	43	3.437	3.436	0.001	97	395615	20.0	19.0	
43 Ethyl acetate	43	4.021	4.014	0.007	99	270449	20.0	19.2	
59 Isopropyl acetate	43	4.881	4.881	0.001	98	491195	20.0	19.7	
* 61 Fluorobenzene (IS)	96	5.076	5.076	0.000	99	1326999	50.0	50.0	
71 n-Propyl acetate	61	5.891	5.885	0.006	99	100226	20.0	18.9	
89 3,4-Dichloro-1-butene	75	7.467	7.470	-0.003	92	184830	20.0	19.3	
92 n-Butyl acetate	43	7.666	7.666	0.000	98	396607	20.0	19.4	
* 94 Chlorobenzene-d5 (IS)	117	8.192	8.195	-0.003	87	1049101	50.0	50.0	
104 cis-1,4-Dichloro-2-butene	88	9.123	9.126	-0.003	24	80872	20.0	19.3	a
115 2,3,4-Trichlorobutene	109	9.582	9.582	0.000	0	151510	20.0	18.8	
117 Pentachloroethane	167	9.790	9.790	0.000	92	94543	20.0	19.2	
* 144 1,4-Dichlorobenzene-d4	152	10.066	10.066	0.000	97	593067	50.0	50.0	

QC Flag Legend

Processing Flags
Review Flags
a - User Assigned ID

Reagents:

MSV_CCV_Penta_00025	Amount Added:	4.00	Units: uL
MSV_CCV_EE_00003	Amount Added:	4.00	Units: uL
MSV_CCV_V5ACE_00016	Amount Added:	4.00	Units: uL
MSV_Cent_IS_O_00007	Amount Added:	5.00	Units: uL
MSV_CCV_LKB_00002	Amount Added:	4.00	Units: uL
MSV_V_SMFreon_00020	Amount Added:	2.00	Units: uL

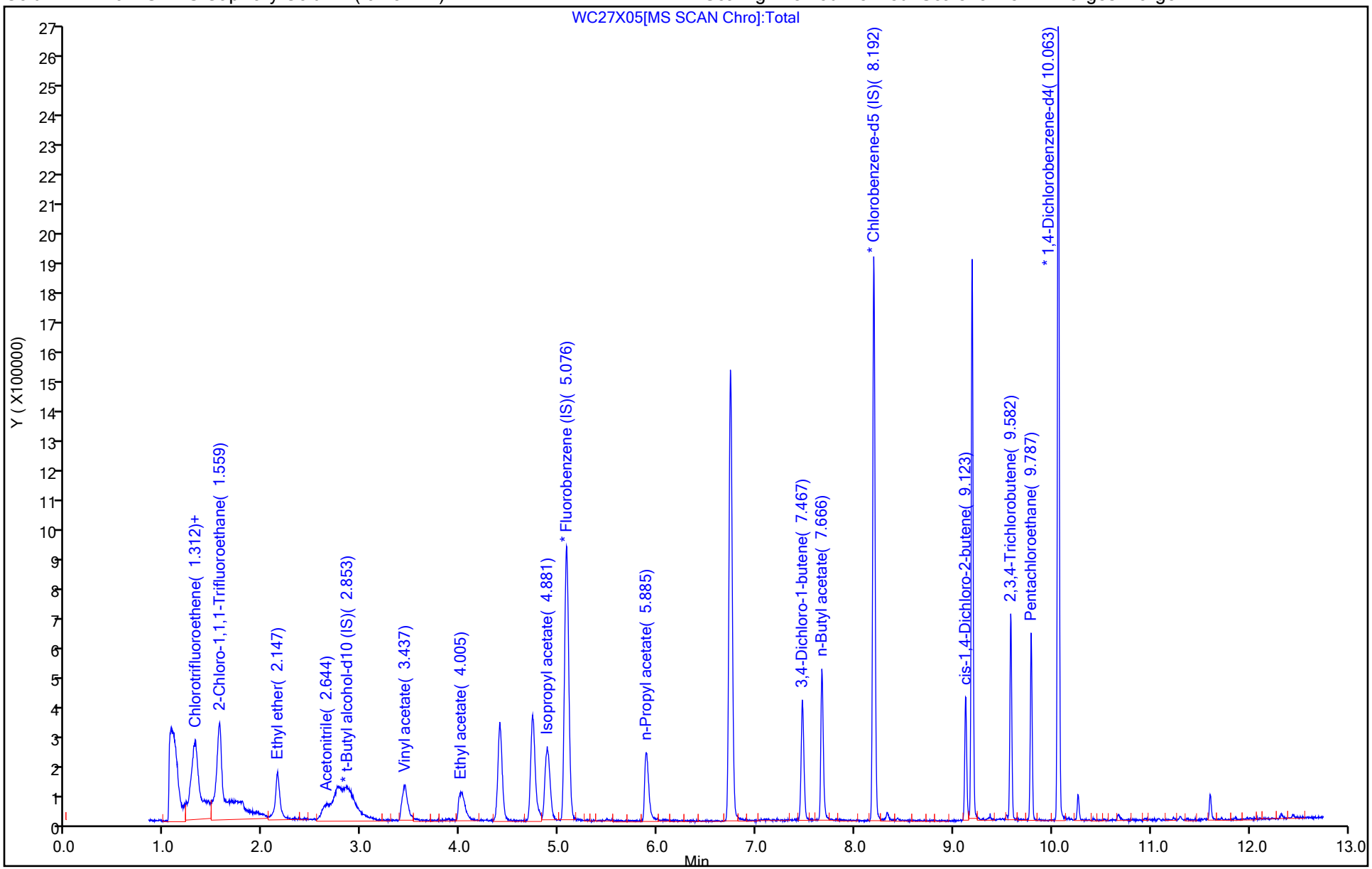
Report Date: 29-Oct-2022 01:14:31 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X05.D

Injection Date:	27-Oct-2022 14:08:30	Instrument ID:	9137	Operator ID:	lcp00895
Lims ID:	IC sm v20			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	MSVoa_9137	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

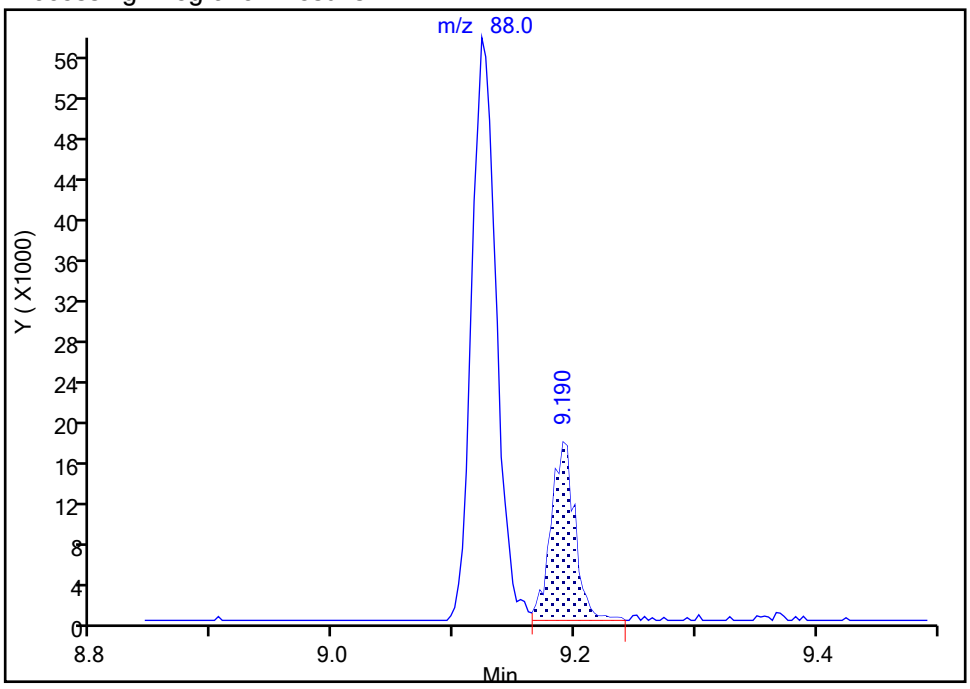
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X05.D
Injection Date: 27-Oct-2022 14:08:30 Instrument ID: 9137
Lims ID: IC sm v20
Client ID:
Operator ID: lcp00895 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

104 cis-1,4-Dichloro-2-butene, CAS: 1476-11-5

Signal: 1

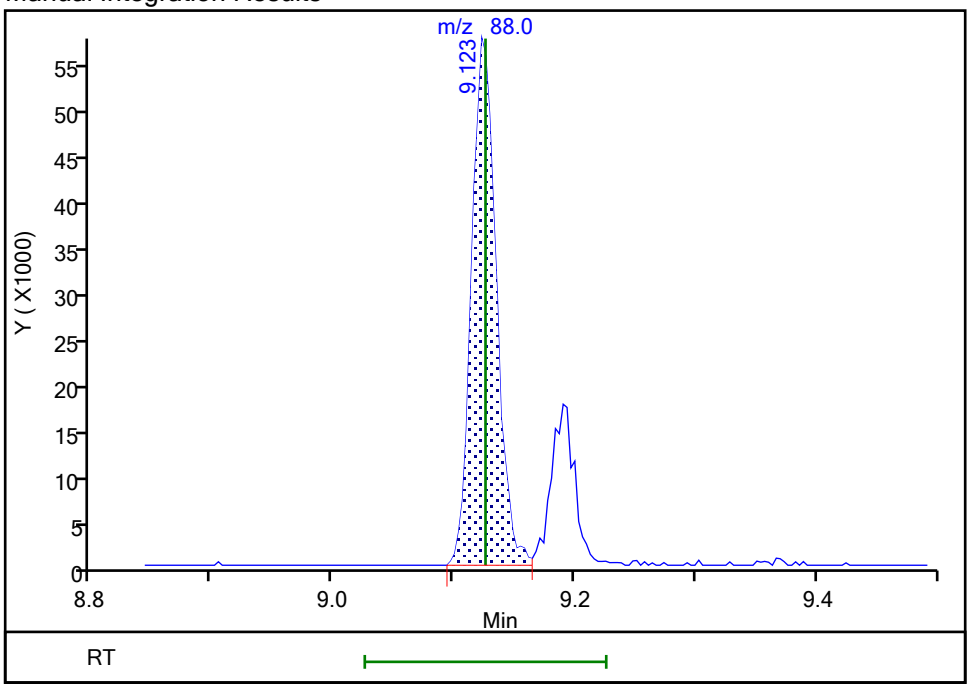
Processing Integration Results

RT: 9.19
Area: 23868
Amount: 6.871343
Amount Units: ug/l



Manual Integration Results

RT: 9.12
Area: 80872
Amount: 19.320017
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:21:17
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X06.D
Lims ID: IC sm v10
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 27-Oct-2022 14:28:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0069757-007
Misc. Info.: IC SM V10
Operator ID: lcp00895 Instrument ID: 9137
Sublist: chrom-MSVoa_9137*sub38

Method: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 29-Oct-2022 01:14:32 Calib Date: 27-Oct-2022 17:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1618

First Level Reviewer: ULCP Date: 27-Oct-2022 16:02:14

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Chlorotrifluoroethene	116	1.287	1.296	-0.009	92	77224	10.0	9.15	
4 Chlorodifluoromethane	51	1.303	1.319	-0.016	98	179631	10.0	10.3	
9 2-Chloro-1,1,1-Trifluoroethane	118	1.563	1.562	0.001	41	113245	10.0	9.49	
15 Ethyl ether	59	2.140	2.150	-0.010	94	72389	10.0	9.87	
26 Acetonitrile	41	2.641	2.666	-0.025	95	200447	50.0	58.8	M
* 29 t-Butyl alcohol-d10 (IS)	65	2.862	2.865	-0.003	8	777373	250.0	250.0	
36 Vinyl acetate	43	3.437	3.436	0.001	97	210299	10.0	10.2	M
43 Ethyl acetate	43	4.014	4.014	0.000	99	132564	10.0	9.53	
59 Isopropyl acetate	43	4.877	4.881	-0.003	99	232400	10.0	9.45	
* 61 Fluorobenzene (IS)	96	5.076	5.076	0.000	99	1310237	50.0	50.0	
71 n-Propyl acetate	61	5.885	5.885	0.000	99	47546	10.0	9.10	
89 3,4-Dichloro-1-butene	75	7.464	7.470	-0.006	92	88966	10.0	9.54	
92 n-Butyl acetate	43	7.666	7.666	0.000	98	195367	10.0	9.83	
* 94 Chlorobenzene-d5 (IS)	117	8.192	8.195	-0.003	87	1022208	50.0	50.0	
104 cis-1,4-Dichloro-2-butene	88	9.123	9.126	-0.003	24	36322	10.0	8.91	a
115 2,3,4-Trichlorobutene	109	9.582	9.582	0.000	0	73371	10.0	9.35	
117 Pentachloroethane	167	9.787	9.790	-0.003	92	43988	10.0	9.20	
* 144 1,4-Dichlorobenzene-d4	152	10.066	10.066	0.000	96	576070	50.0	50.0	

QC Flag Legend

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

Reagents:

MSV_CCV_Penta_00025	Amount Added:	2.00	Units: uL
MSV_CCV_EE_00003	Amount Added:	2.00	Units: uL
MSV_CCV_V5ACE_00016	Amount Added:	2.00	Units: uL
MSV_Cent_IS_O_00007	Amount Added:	5.00	Units: uL
MSV_CCV_LKB_00002	Amount Added:	2.00	Units: uL
MSV_V_SMFreon_00020	Amount Added:	1.00	Units: uL

Report Date: 29-Oct-2022 01:14:32 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X06.D

Injection Date: 27-Oct-2022 14:28:30 Instrument ID: 9137 Operator ID: lcp00895

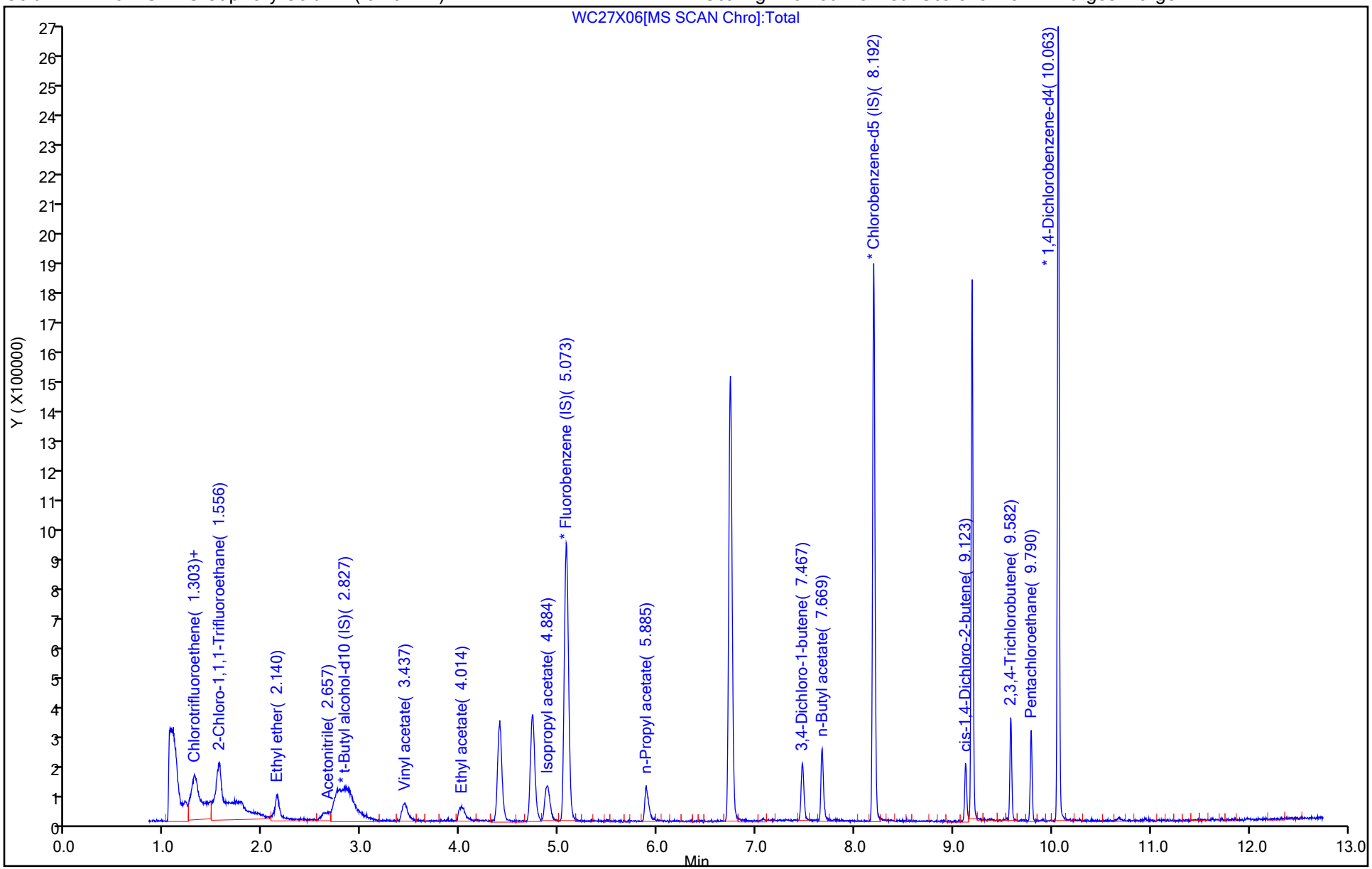
Lims ID: IC sm v10 Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 6

Method: MSVoa_9137 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

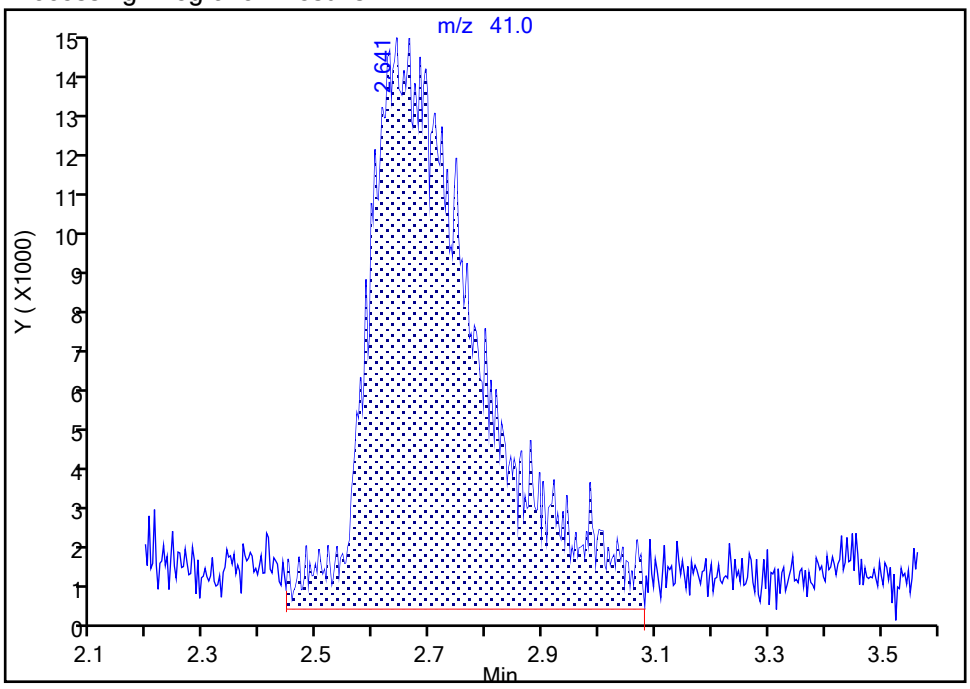
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X06.D
Injection Date: 27-Oct-2022 14:28:30 Instrument ID: 9137
Lims ID: IC sm v10
Client ID:
Operator ID: lcp00895 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

26 Acetonitrile, CAS: 75-05-8

Signal: 1

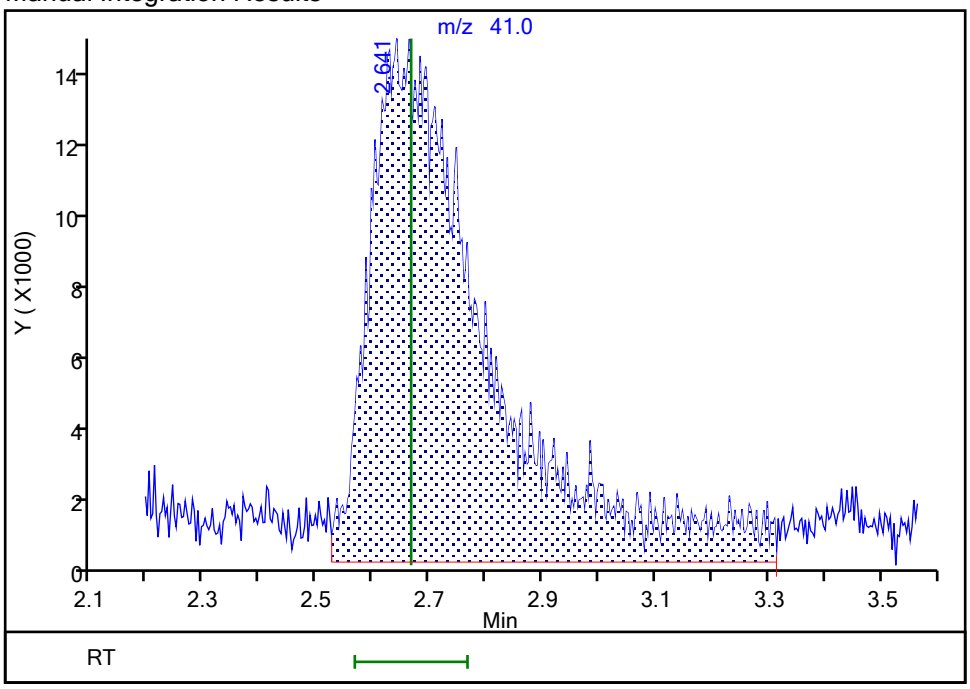
Processing Integration Results

RT: 2.64
Area: 183672
Amount: 54.808802
Amount Units: ug/l



Manual Integration Results

RT: 2.64
Area: 200447
Amount: 58.832883
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:21:48
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

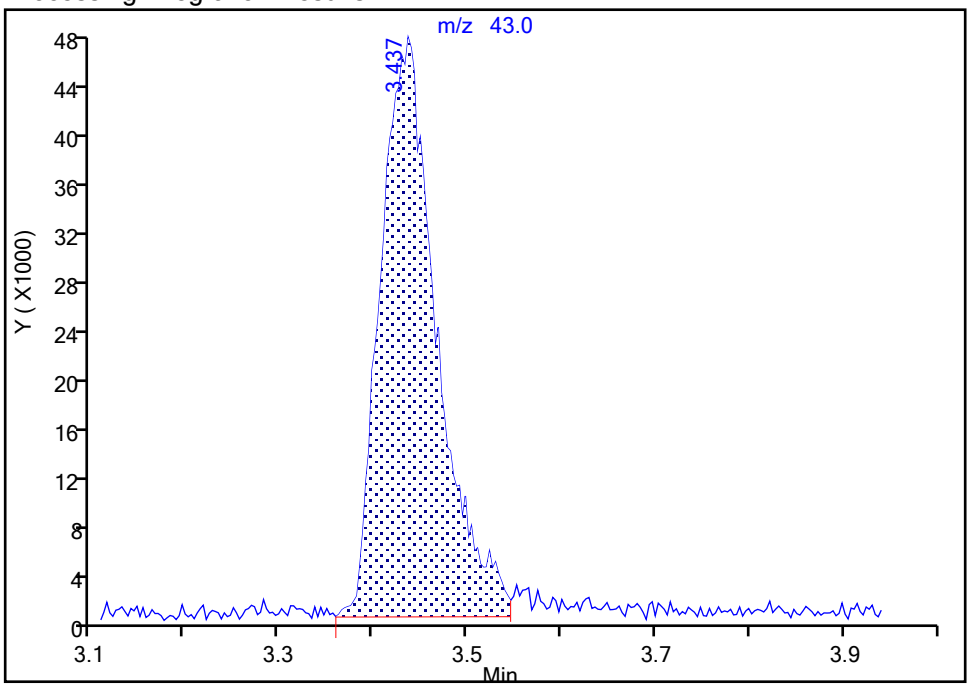
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X06.D
Injection Date: 27-Oct-2022 14:28:30 Instrument ID: 9137
Lims ID: IC sm v10
Client ID:
Operator ID: lcp00895 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

36 Vinyl acetate, CAS: 108-05-4

Signal: 1

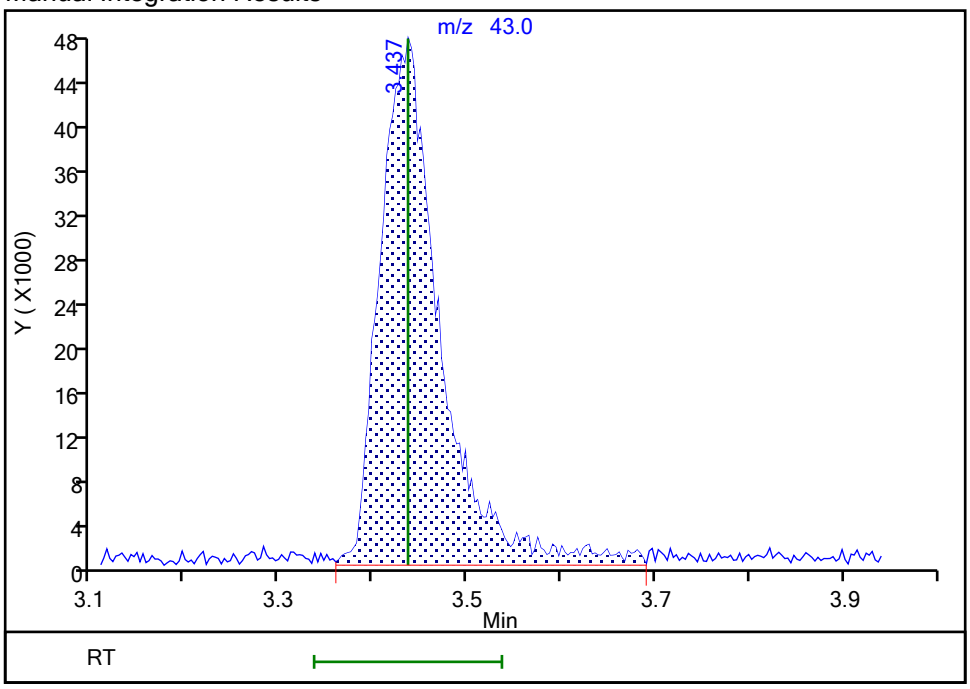
Processing Integration Results

RT: 3.44
Area: 195813
Amount: 9.895019
Amount Units: ug/l



Manual Integration Results

RT: 3.44
Area: 210299
Amount: 10.209596
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:22:01
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

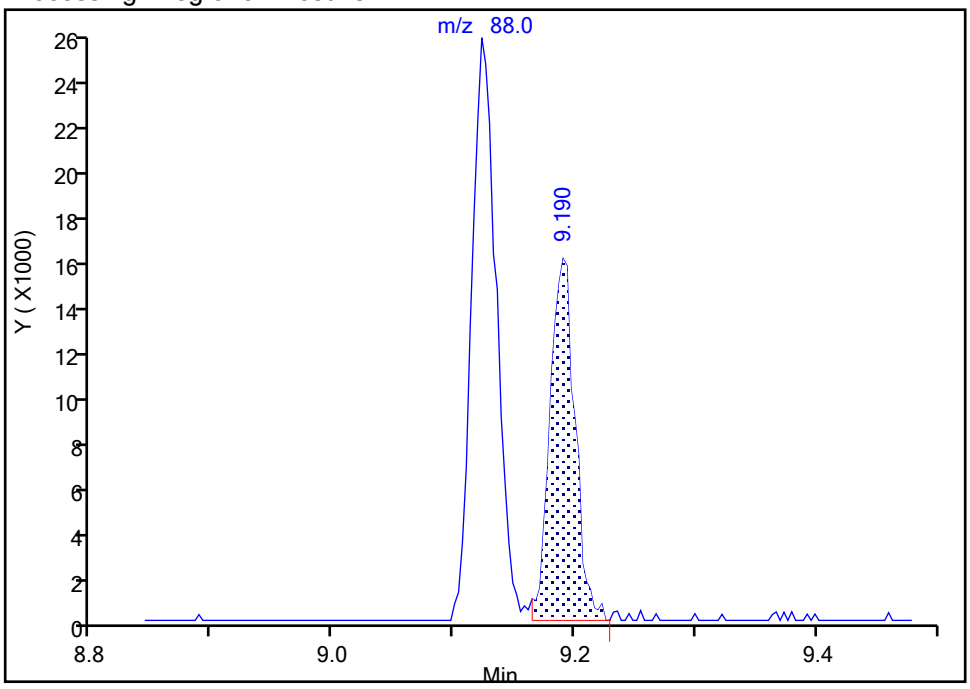
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X06.D
Injection Date: 27-Oct-2022 14:28:30 Instrument ID: 9137
Lims ID: IC sm v10
Client ID:
Operator ID: lcp00895 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

104 cis-1,4-Dichloro-2-butene, CAS: 1476-11-5

Signal: 1

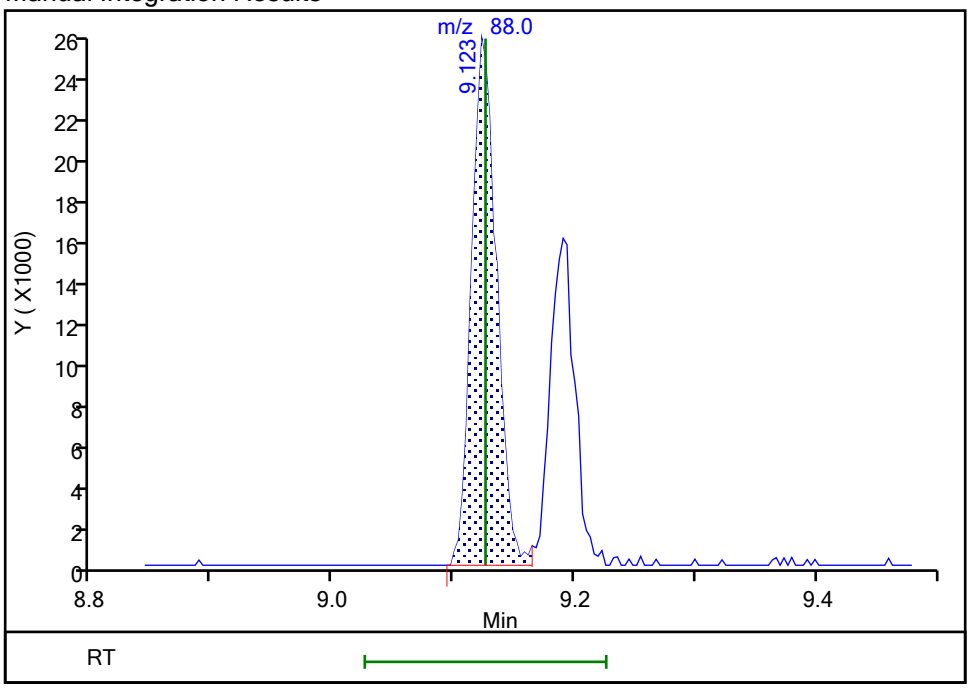
Processing Integration Results

RT: 9.19
Area: 22457
Amount: 7.323760
Amount Units: ug/l



Manual Integration Results

RT: 9.12
Area: 36322
Amount: 8.905475
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:22:07
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X07.D
Lims ID: IC sm v4
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 27-Oct-2022 14:47:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0069757-008
Misc. Info.: IC SM V4
Operator ID: lcp00895 Instrument ID: 9137
Sublist: chrom-MSVoa_9137*sub38

Method: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 29-Oct-2022 01:14:33 Calib Date: 27-Oct-2022 17:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1618

First Level Reviewer: ULCP Date: 27-Oct-2022 16:11:56

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Chlorotrifluoroethene	116	1.290	1.296	-0.006	90	36307	4.00	4.19	
4 Chlorodifluoromethane	51	1.332	1.319	0.013	97	78053	4.00	4.58	M
9 2-Chloro-1,1,1-Trifluoroethane	118	1.572	1.562	0.010	36	50975	4.00	4.16	
15 Ethyl ether	59	2.147	2.150	-0.003	90	29708	4.00	3.95	
26 Acetonitrile	41	2.644	2.666	-0.022	94	75807	20.0	22.8	
* 29 t-Butyl alcohol-d10 (IS)	65	2.862	2.865	-0.003	42	757847	250.0	250.0	
36 Vinyl acetate	43	3.456	3.436	0.020	96	80314	4.00	3.80	M
43 Ethyl acetate	43	4.037	4.014	0.023	96	54587	4.00	3.82	M
59 Isopropyl acetate	43	4.897	4.881	0.017	96	92793	4.00	3.68	
* 61 Fluorobenzene (IS)	96	5.080	5.076	0.004	98	1344707	50.0	50.0	
71 n-Propyl acetate	61	5.901	5.885	0.016	98	18817	4.00	3.51	
89 3,4-Dichloro-1-butene	75	7.473	7.470	0.003	91	35247	4.00	3.77	
92 n-Butyl acetate	43	7.672	7.666	0.006	99	76122	4.00	3.83	M
* 94 Chlorobenzene-d5 (IS)	117	8.195	8.195	0.000	87	1023634	50.0	50.0	
104 cis-1,4-Dichloro-2-butene	88	9.126	9.126	0.000	24	14746	4.00	3.61	
115 2,3,4-Trichlorobutene	109	9.585	9.582	0.003	0	30607	4.00	3.84	M
117 Pentachloroethane	167	9.790	9.790	0.000	91	18256	4.00	3.76	
* 144 1,4-Dichlorobenzene-d4	152	10.066	10.066	0.000	97	584661	50.0	50.0	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

MSV_CCV_Penta_00025	Amount Added:	4.00	Units: uL
MSV_CCV_EE_00003	Amount Added:	4.00	Units: uL
MSV_CCV_V5ACE_00016	Amount Added:	4.00	Units: uL
MSV_Cent_IS_O_00007	Amount Added:	5.00	Units: uL
MSV_CCV_LKB_00002	Amount Added:	4.00	Units: uL
MSV_V_SMFreon_00020	Amount Added:	2.00	Units: uL

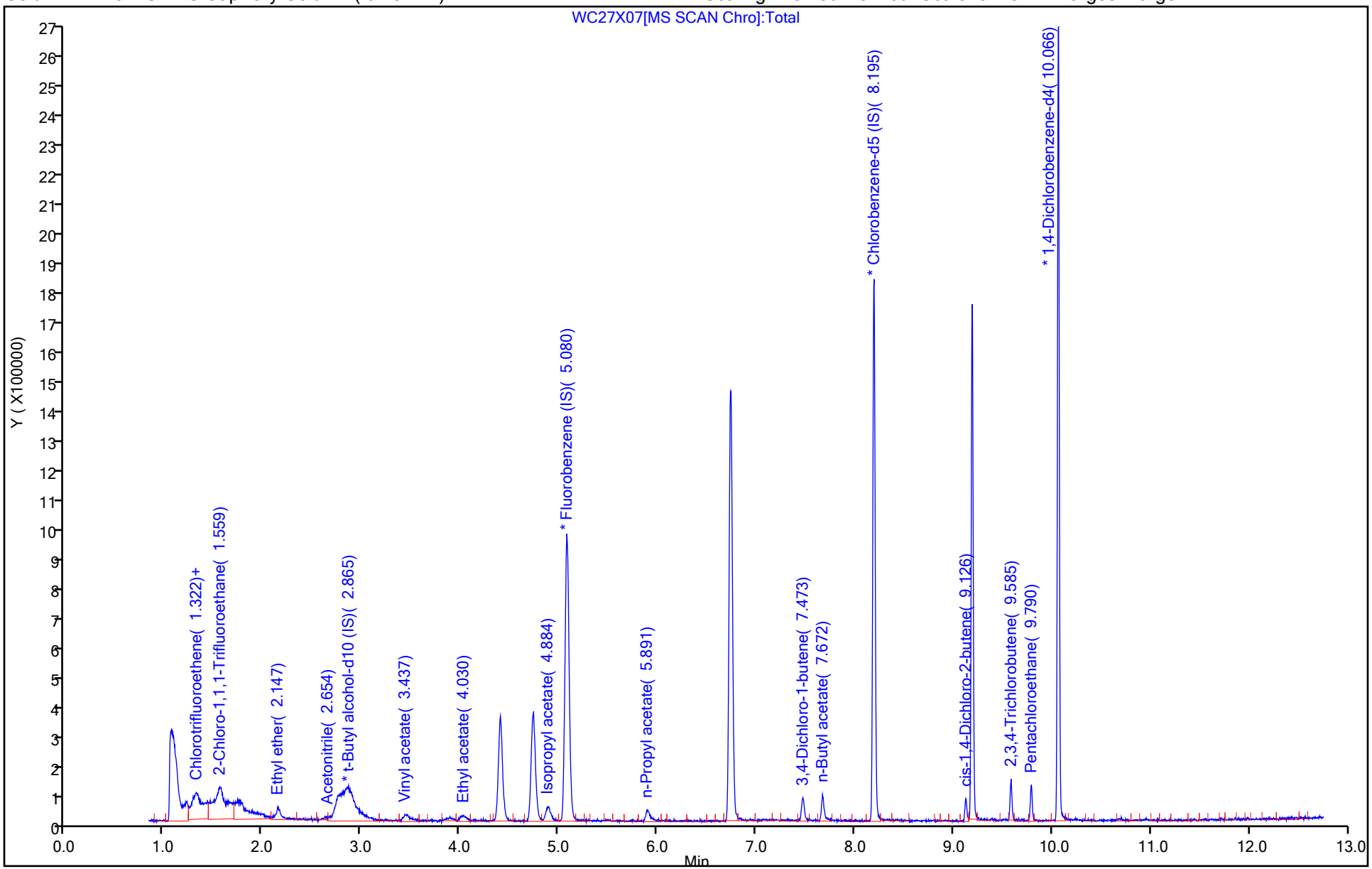
Report Date: 29-Oct-2022 01:14:34 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X07.D

Injection Date:	27-Oct-2022 14:47:30	Instrument ID:	9137	Operator ID:	lcp00895
Lims ID:	IC sm v4			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	MSVoa_9137	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

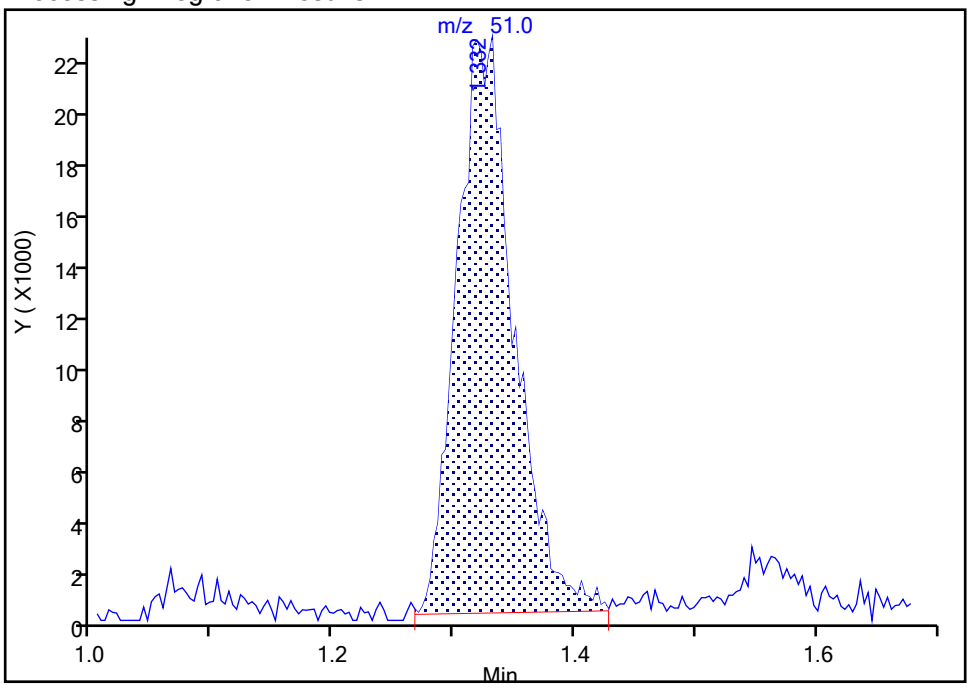
Data File:	\\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X07.D				
Injection Date:	27-Oct-2022 14:47:30	Instrument ID:	9137		
Lims ID:	IC sm v4				
Client ID:					
Operator ID:	lcp00895	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

4 Chlorodifluoromethane, CAS: 75-45-6

Signal: 1

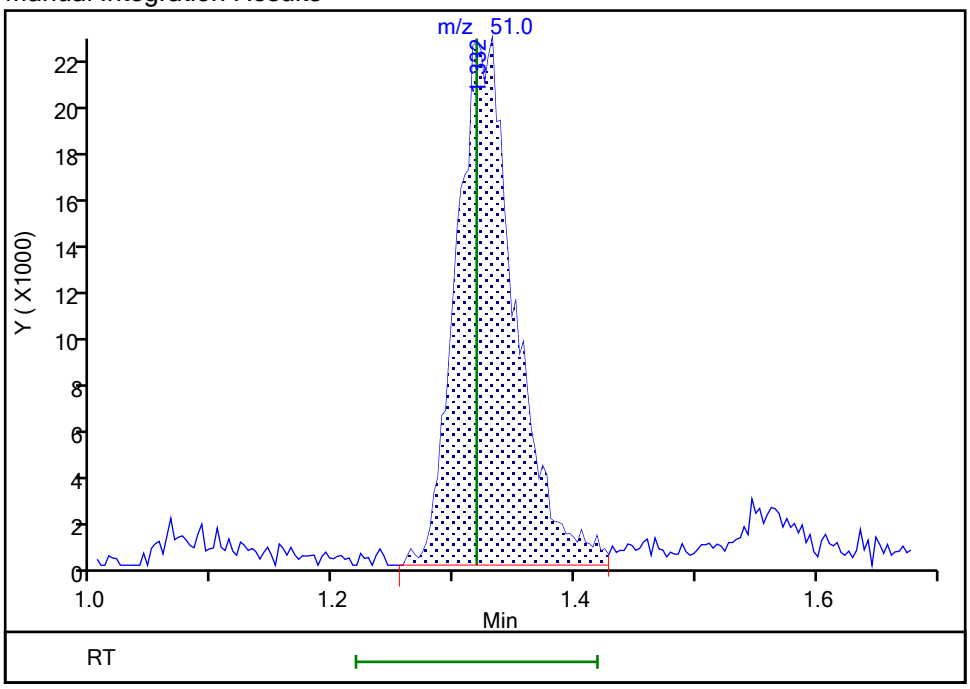
Processing Integration Results

RT: 1.33
Area: 74913
Amount: 5.159351
Amount Units: ug/l



Manual Integration Results

RT: 1.33
Area: 78053
Amount: 4.575132
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:22:29
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

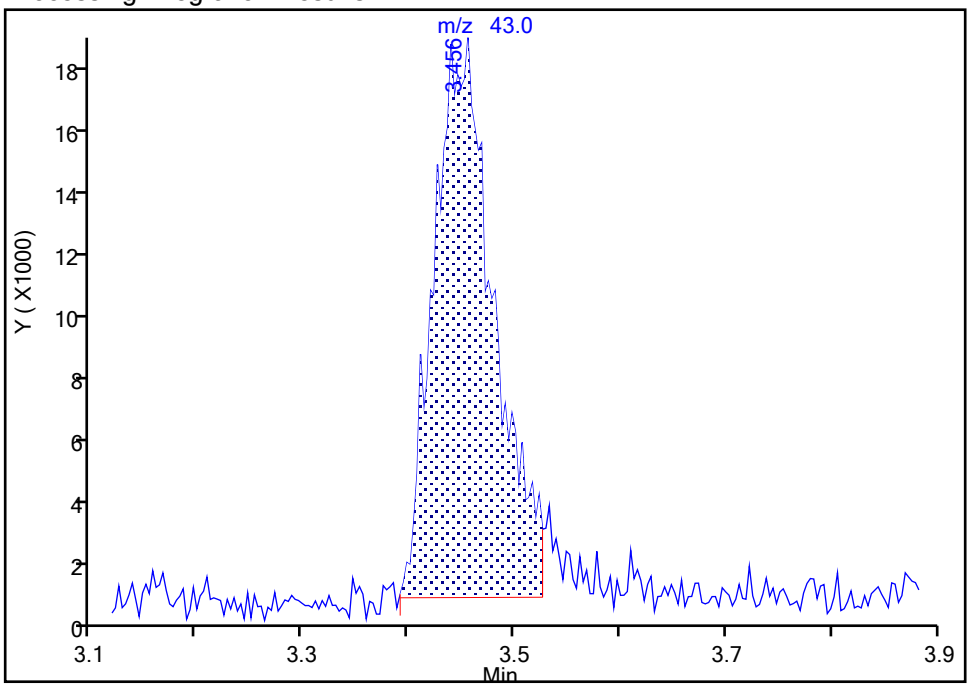
Data File:	\\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X07.D				
Injection Date:	27-Oct-2022 14:47:30	Instrument ID:	9137		
Lims ID:	IC sm v4				
Client ID:					
Operator ID:	lcp00895	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

36 Vinyl acetate, CAS: 108-05-4

Signal: 1

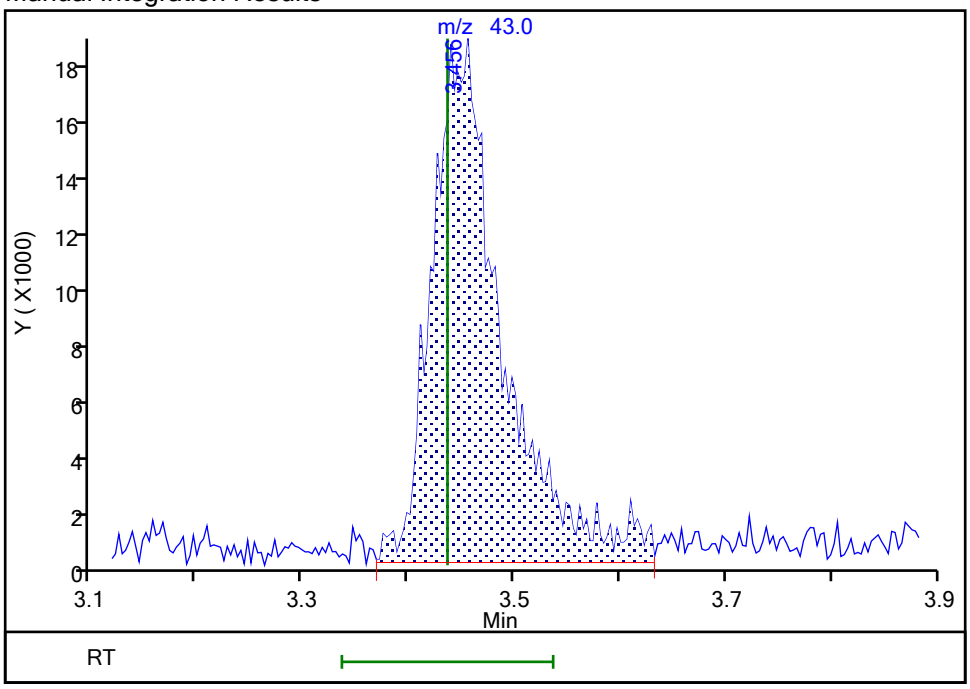
Processing Integration Results

RT: 3.46
Area: 66331
Amount: 3.226617
Amount Units: ug/l



Manual Integration Results

RT: 3.46
Area: 80314
Amount: 3.799136
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:23:07

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

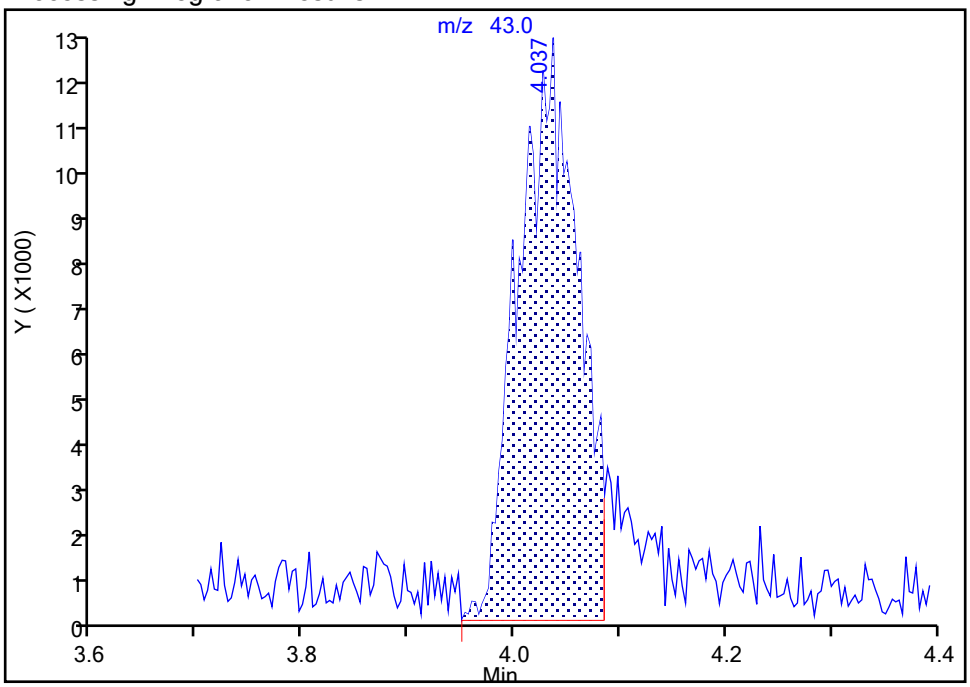
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X07.D
Injection Date: 27-Oct-2022 14:47:30 Instrument ID: 9137
Lims ID: IC sm v4
Client ID:
Operator ID: lcp00895 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

43 Ethyl acetate, CAS: 141-78-6

Signal: 1

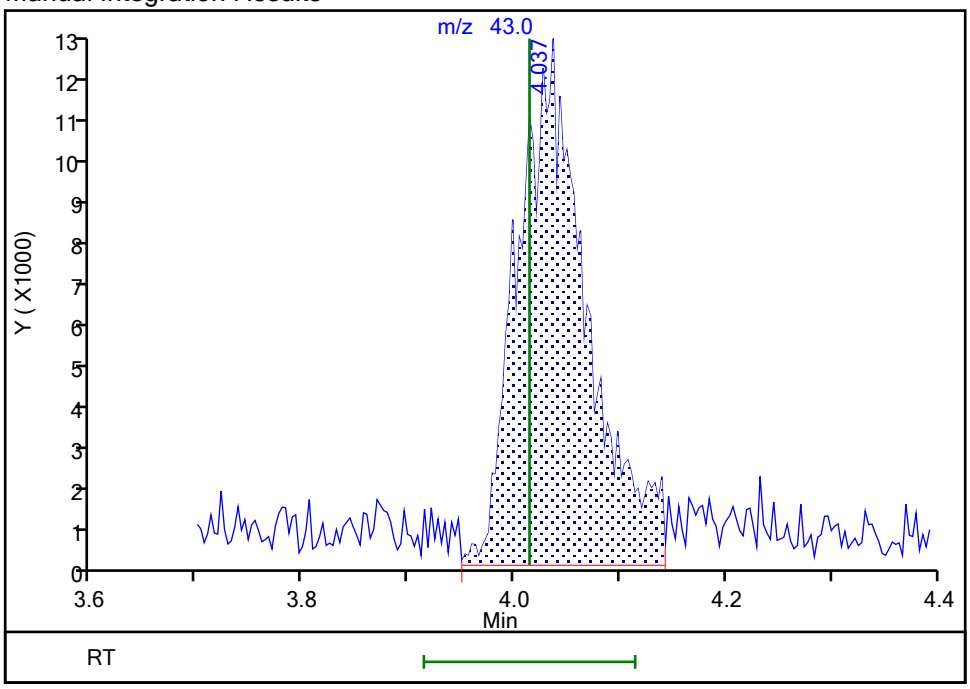
Processing Integration Results

RT: 4.04
Area: 46855
Amount: 3.358723
Amount Units: ug/l



Manual Integration Results

RT: 4.04
Area: 54587
Amount: 3.824652
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:23:30
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

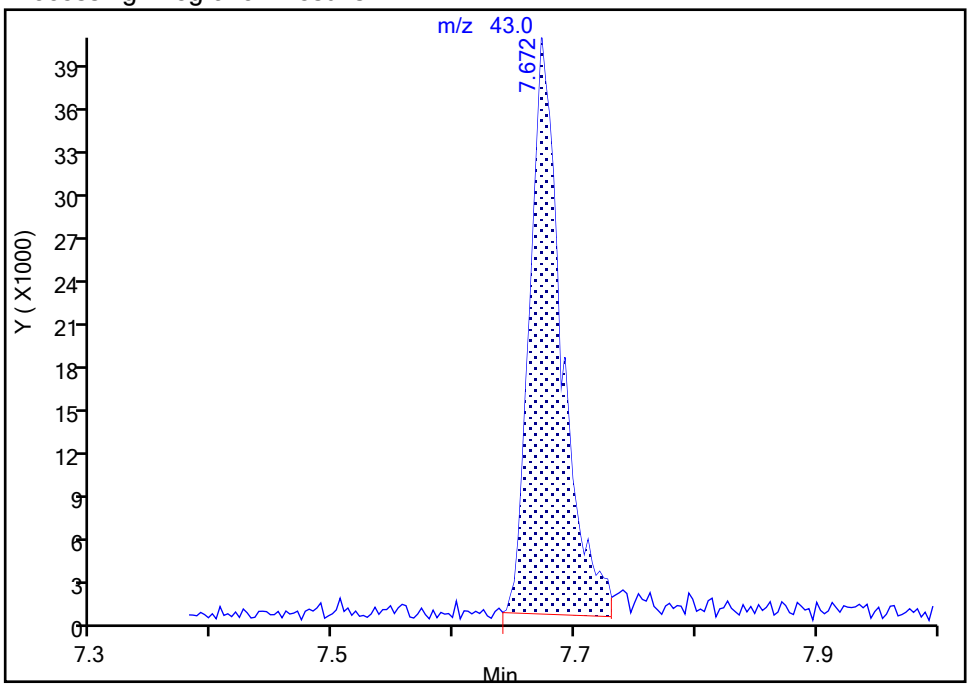
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X07.D
Injection Date: 27-Oct-2022 14:47:30 Instrument ID: 9137
Lims ID: IC sm v4
Client ID:
Operator ID: lcp00895 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

92 n-Butyl acetate, CAS: 123-86-4

Signal: 1

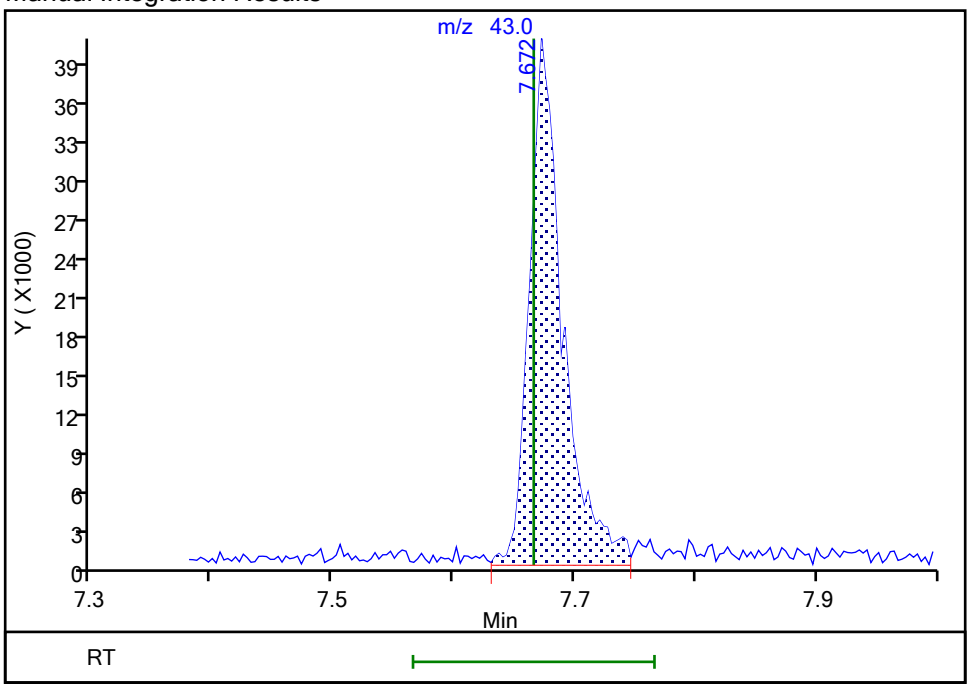
Processing Integration Results

RT: 7.67
Area: 71677
Amount: 3.636354
Amount Units: ug/l



Manual Integration Results

RT: 7.67
Area: 76122
Amount: 3.825911
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:23:43
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

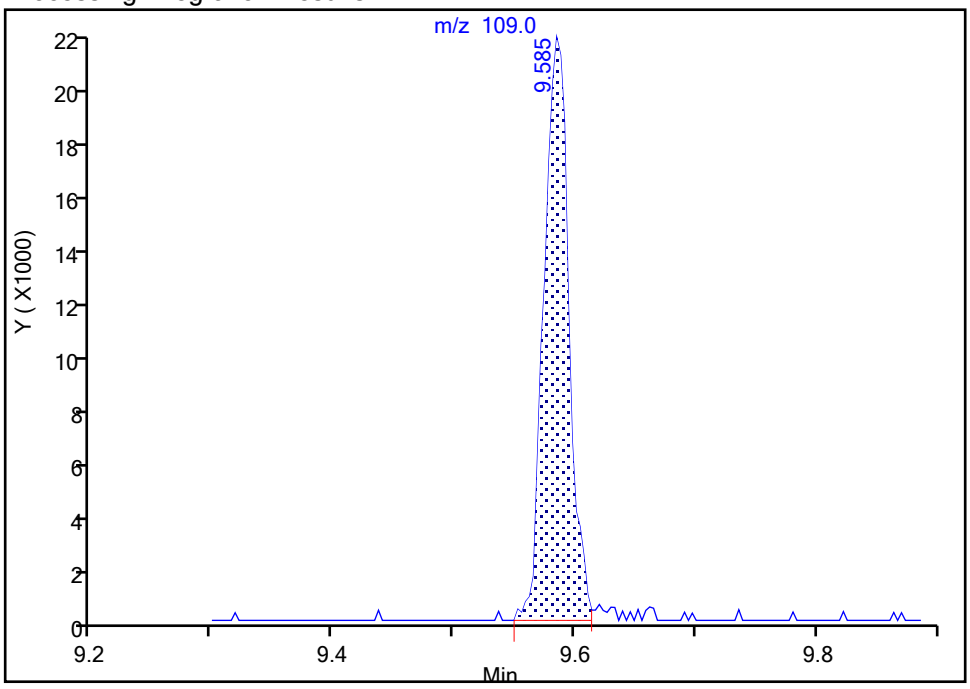
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X07.D
Injection Date: 27-Oct-2022 14:47:30 Instrument ID: 9137
Lims ID: IC sm v4
Client ID:
Operator ID: lcp00895 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

115 2,3,4-Trichlorobutene, CAS: 2431-50-7

Signal: 1

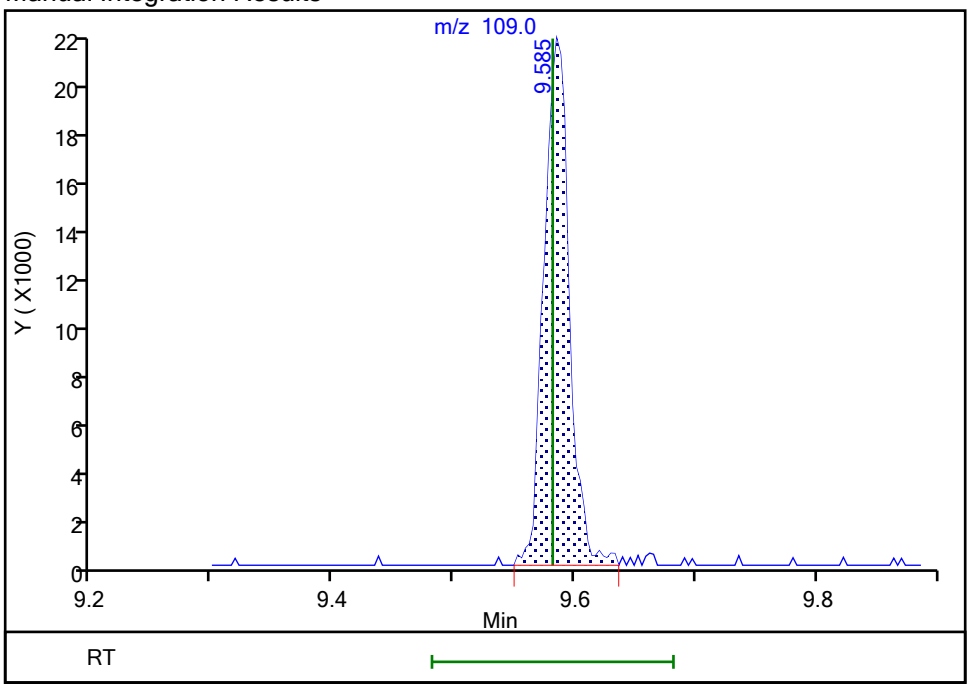
Processing Integration Results

RT: 9.58
Area: 30123
Amount: 3.792611
Amount Units: ug/l



Manual Integration Results

RT: 9.58
Area: 30607
Amount: 3.843789
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:23:52
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

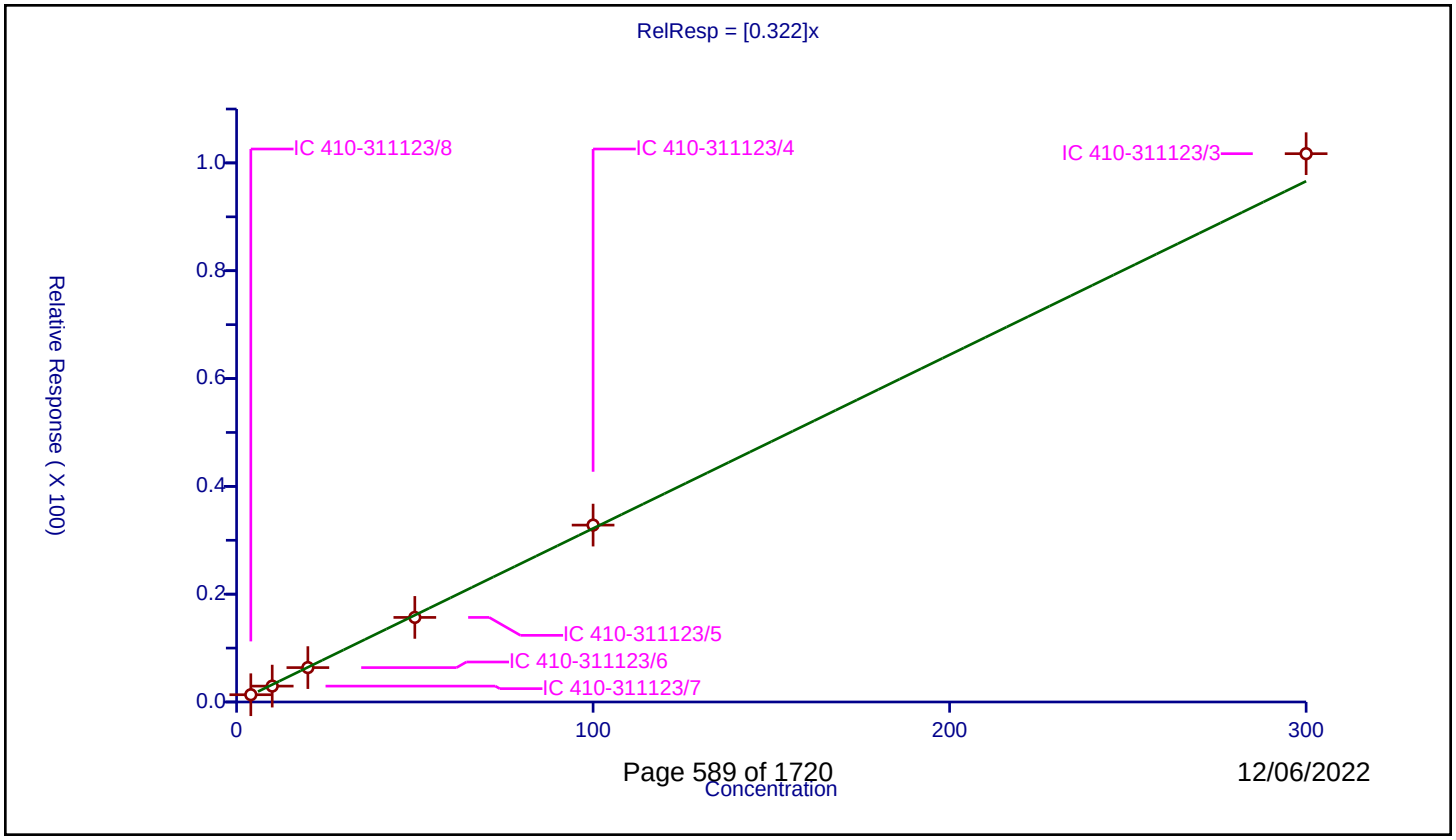
Curve Coefficients

Intercept:	0
Slope:	0.322

Error Coefficients

Standard Error:	1230000
Relative Standard Error:	5.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/8	4.0	1.349997	50.0	1344707.0	0.337499	Y
2	IC 410-311123/7	10.0	2.946948	50.0	1310237.0	0.294695	Y
3	IC 410-311123/6	20.0	6.379809	50.0	1326999.0	0.31899	Y
4	IC 410-311123/5	50.0	15.688695	50.0	1304315.0	0.313774	Y
5	IC 410-311123/4	100.0	32.815468	50.0	1297763.0	0.328155	Y
6	IC 410-311123/3	300.0	101.713534	50.0	1262537.0	0.339045	Y



Calibration / Chlorodifluoromethane

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

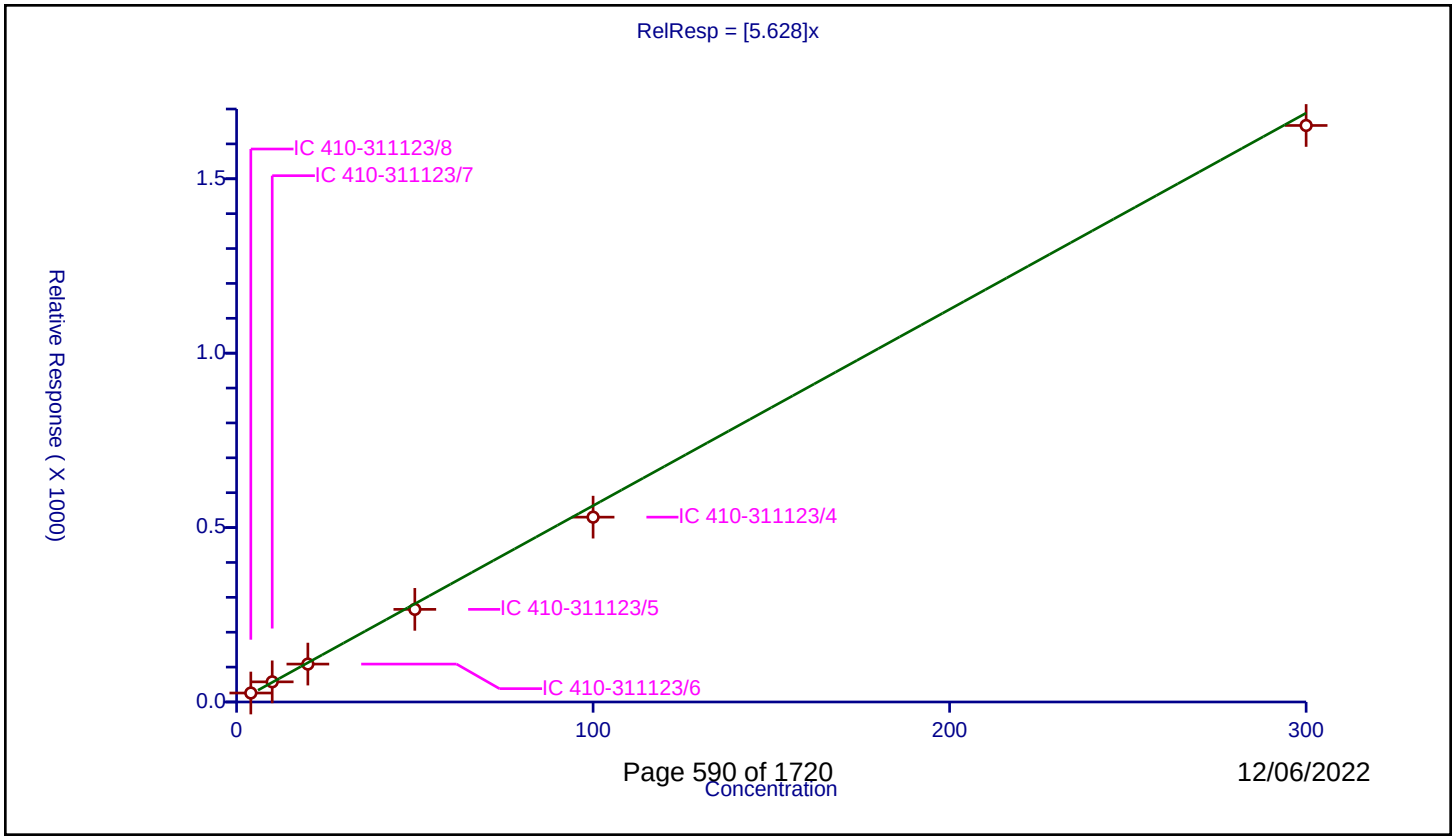
Curve Coefficients

Intercept:	0
Slope:	5.628

Error Coefficients

Standard Error:	2450000
Relative Standard Error:	7.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/8	4.0	25.748271	250.0	757847.0	6.437068	Y
2	IC 410-311123/7	10.0	57.7686	250.0	777373.0	5.77686	Y
3	IC 410-311123/6	20.0	108.686575	250.0	779565.0	5.434329	Y
4	IC 410-311123/5	50.0	265.516318	250.0	799352.0	5.310326	Y
5	IC 410-311123/4	100.0	529.919982	250.0	802315.0	5.2992	Y
6	IC 410-311123/3	300.0	1652.840146	250.0	775418.0	5.509467	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

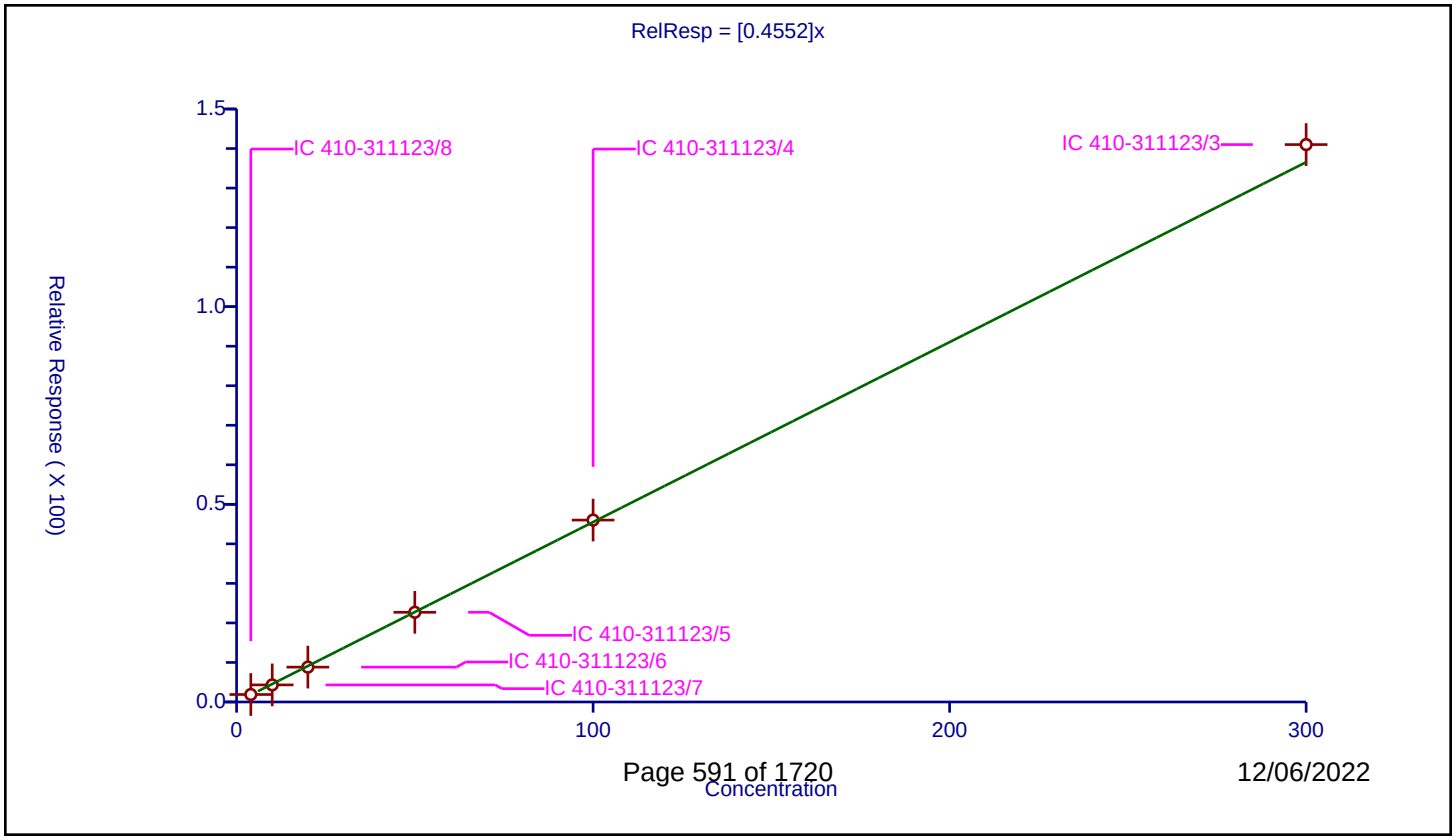
Curve Coefficients

Intercept:	0
Slope:	0.4552

Error Coefficients

Standard Error:	1700000
Relative Standard Error:	3.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/8	4.0	1.895394	50.0	1344707.0	0.473849	Y
2	IC 410-311123/7	10.0	4.321546	50.0	1310237.0	0.432155	Y
3	IC 410-311123/6	20.0	8.822313	50.0	1326999.0	0.441116	Y
4	IC 410-311123/5	50.0	22.688921	50.0	1304315.0	0.453778	Y
5	IC 410-311123/4	100.0	46.012562	50.0	1297763.0	0.460126	Y
6	IC 410-311123/3	300.0	140.998759	50.0	1262537.0	0.469996	Y



Calibration / Ethyl ether

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

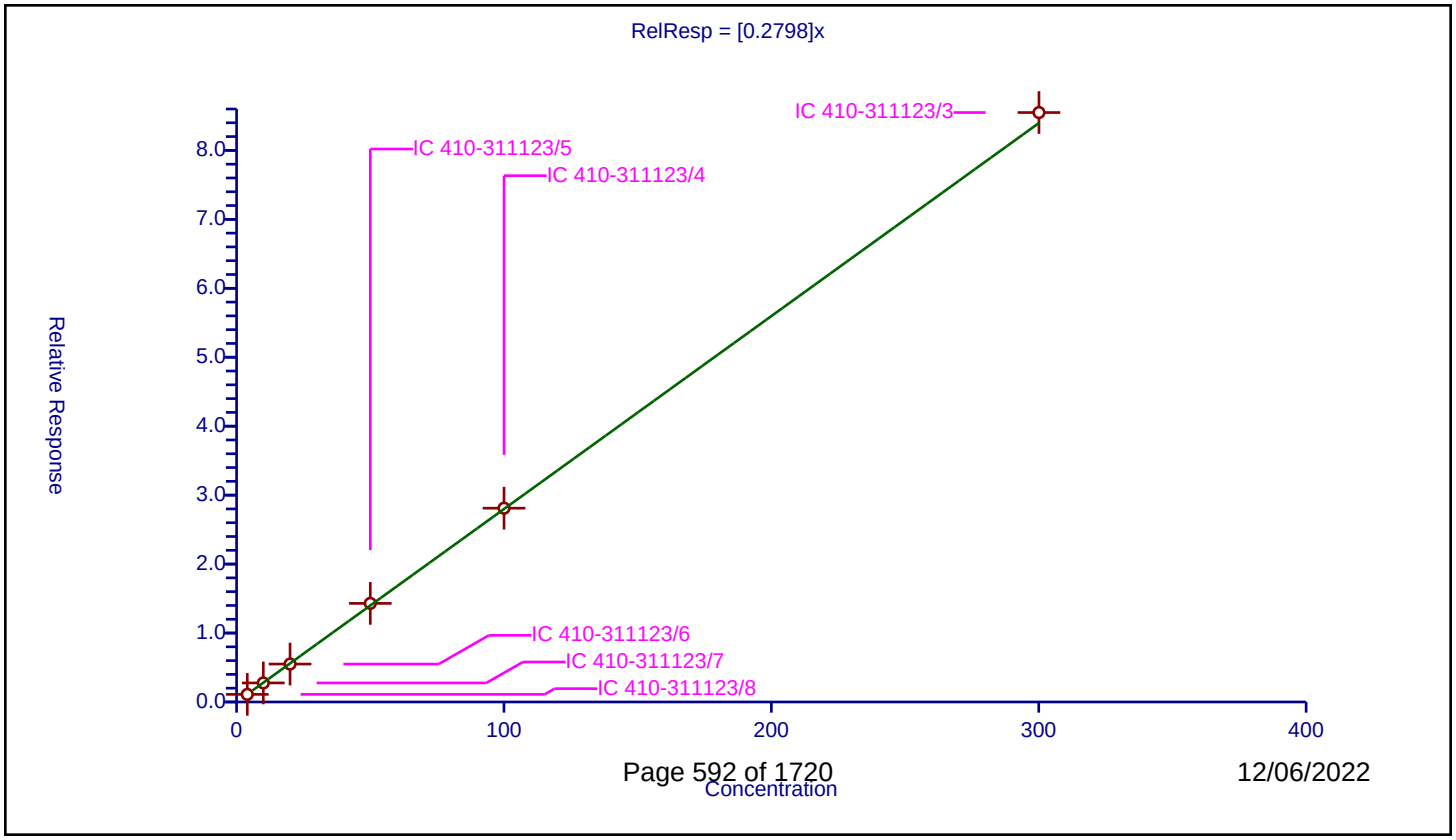
Curve Coefficients

Intercept:	0
Slope:	0.2798

Error Coefficients

Standard Error:	1040000
Relative Standard Error:	1.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/8	4.001144	1.104627	50.0	1344707.0	0.276078	Y
2	IC 410-311123/7	10.00286	2.762439	50.0	1310237.0	0.276165	Y
3	IC 410-311123/6	20.00572	5.499627	50.0	1326999.0	0.274903	Y
4	IC 410-311123/5	50.0143	14.301032	50.0	1304315.0	0.285939	Y
5	IC 410-311123/4	100.0286	28.108252	50.0	1297763.0	0.281002	Y
6	IC 410-311123/3	300.0858	85.488148	50.0	1262537.0	0.284879	Y



Calibration / Acetonitrile

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

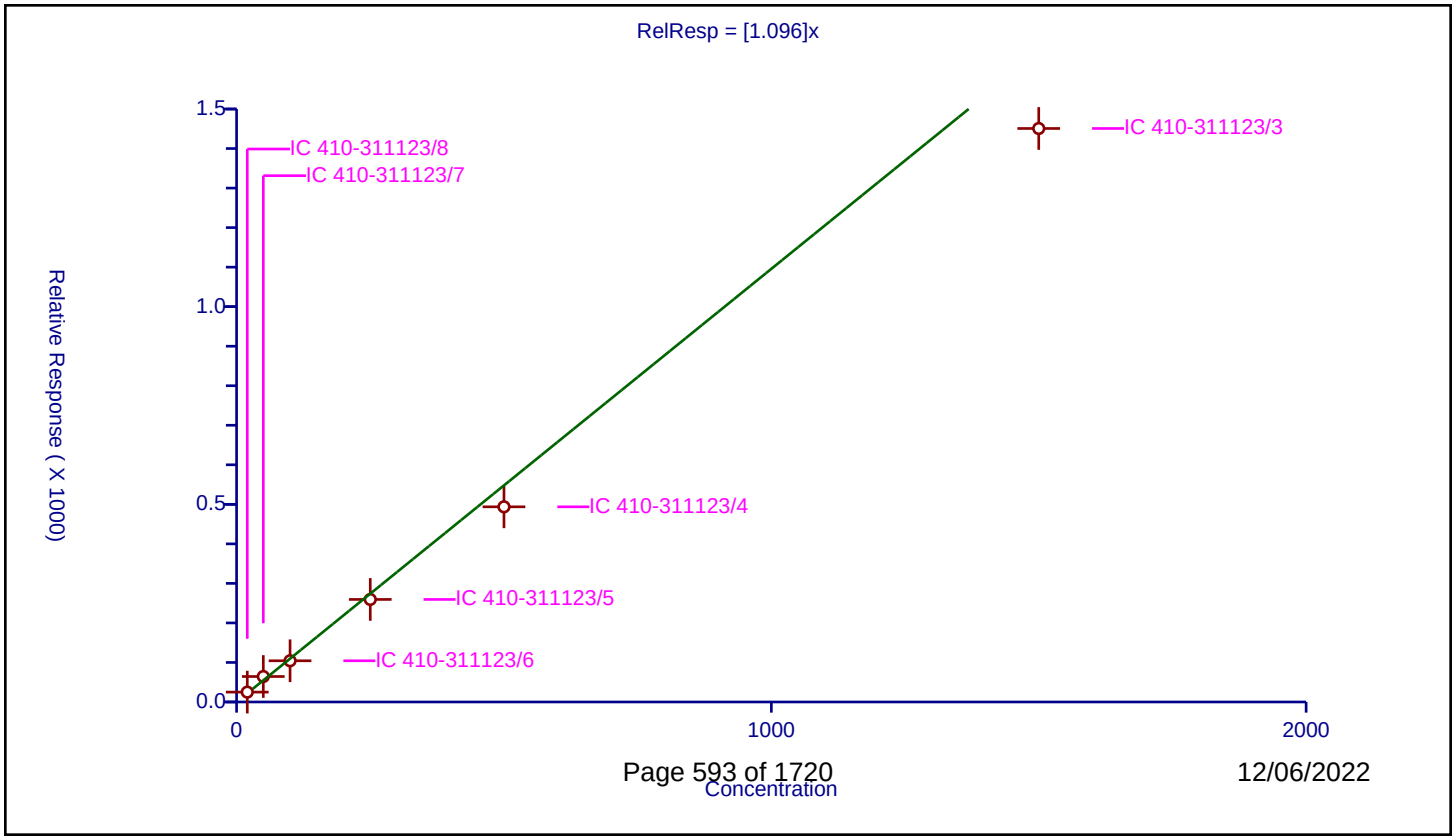
Curve Coefficients

Intercept:	0
Slope:	1.096

Error Coefficients

Standard Error:	2170000
Relative Standard Error:	12.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.973

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/8	20.0	25.007356	250.0	757847.0	1.250368	Y
2	IC 410-311123/7	50.0	64.462941	250.0	777373.0	1.289259	Y
3	IC 410-311123/6	100.0	104.236337	250.0	779565.0	1.042363	Y
4	IC 410-311123/5	250.0	259.405744	250.0	799352.0	1.037623	Y
5	IC 410-311123/4	500.0	493.702598	250.0	802315.0	0.987405	Y
6	IC 410-311123/3	1500.0	1450.734636	250.0	775418.0	0.967156	Y



Calibration / Vinyl acetate

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

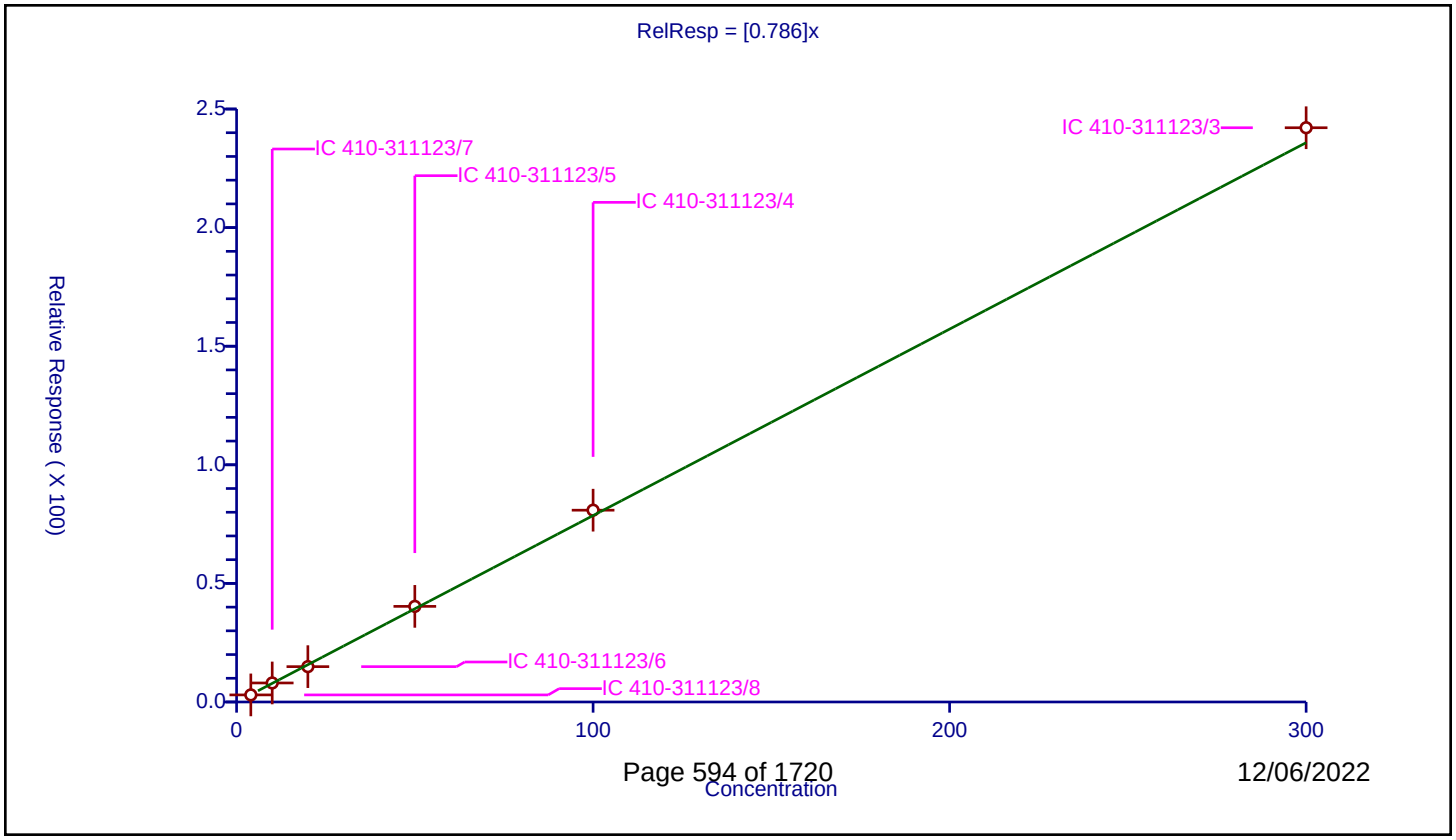
Curve Coefficients

Intercept:	0
Slope:	0.786

Error Coefficients

Standard Error:	2940000
Relative Standard Error:	4.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/8	4.0	2.986301	50.0	1344707.0	0.746575	Y
2	IC 410-311123/7	10.0	8.025227	50.0	1310237.0	0.802523	Y
3	IC 410-311123/6	20.0	14.906379	50.0	1326999.0	0.745319	Y
4	IC 410-311123/5	50.0	40.312885	50.0	1304315.0	0.806258	Y
5	IC 410-311123/4	100.0	80.860142	50.0	1297763.0	0.808601	Y
6	IC 410-311123/3	300.0	242.102687	50.0	1262537.0	0.807009	Y



Calibration / Ethyl acetate

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

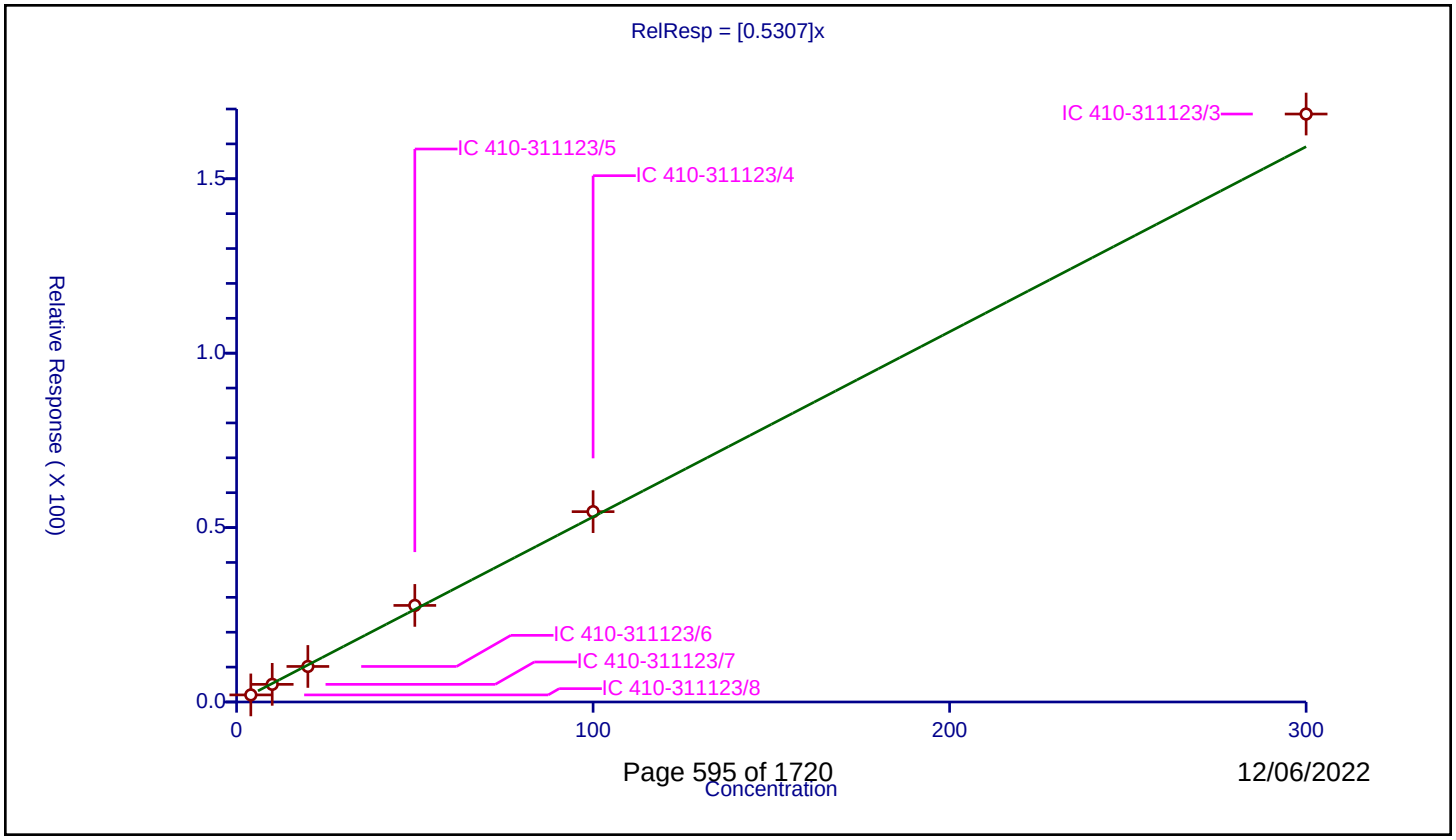
Curve Coefficients

Intercept:	0
Slope:	0.5307

Error Coefficients

Standard Error:	2040000
Relative Standard Error:	4.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/8	4.0	2.029699	50.0	1344707.0	0.507425	Y
2	IC 410-311123/7	10.0	5.058779	50.0	1310237.0	0.505878	Y
3	IC 410-311123/6	20.0	10.190249	50.0	1326999.0	0.509512	Y
4	IC 410-311123/5	50.0	27.689554	50.0	1304315.0	0.553791	Y
5	IC 410-311123/4	100.0	54.564354	50.0	1297763.0	0.545644	Y
6	IC 410-311123/3	300.0	168.564367	50.0	1262537.0	0.561881	Y



Calibration / Isopropyl acetate

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

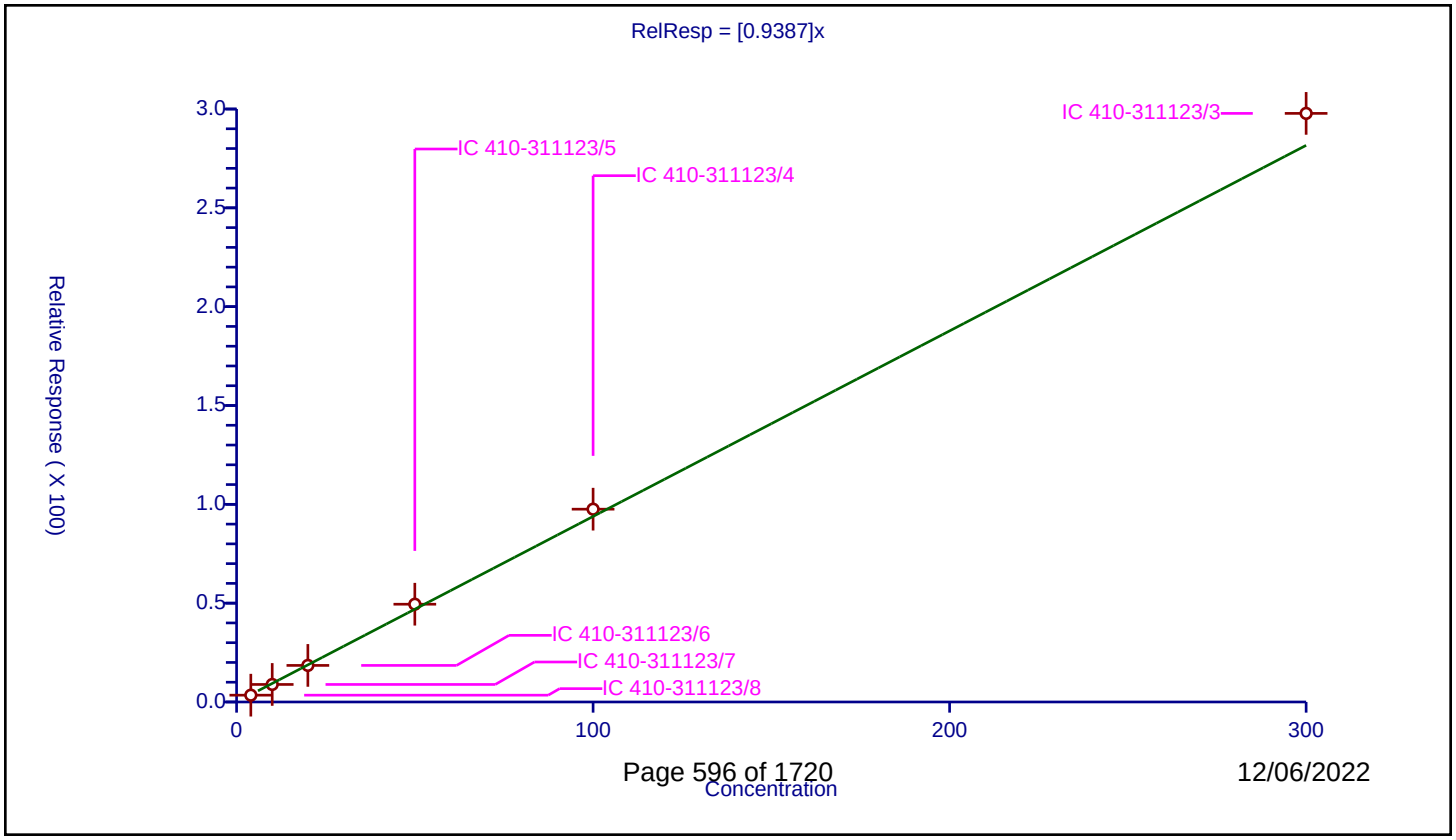
Curve Coefficients

Intercept:	0
Slope:	0.9387

Error Coefficients

Standard Error:	3600000
Relative Standard Error:	5.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/8	4.0	3.450306	50.0	1344707.0	0.862576	Y
2	IC 410-311123/7	10.0	8.868625	50.0	1310237.0	0.886862	Y
3	IC 410-311123/6	20.0	18.507738	50.0	1326999.0	0.925387	Y
4	IC 410-311123/5	50.0	49.462515	50.0	1304315.0	0.98925	Y
5	IC 410-311123/4	100.0	97.552904	50.0	1297763.0	0.975529	Y
6	IC 410-311123/3	300.0	297.789213	50.0	1262537.0	0.992631	Y



Calibration / n-Propyl acetate

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

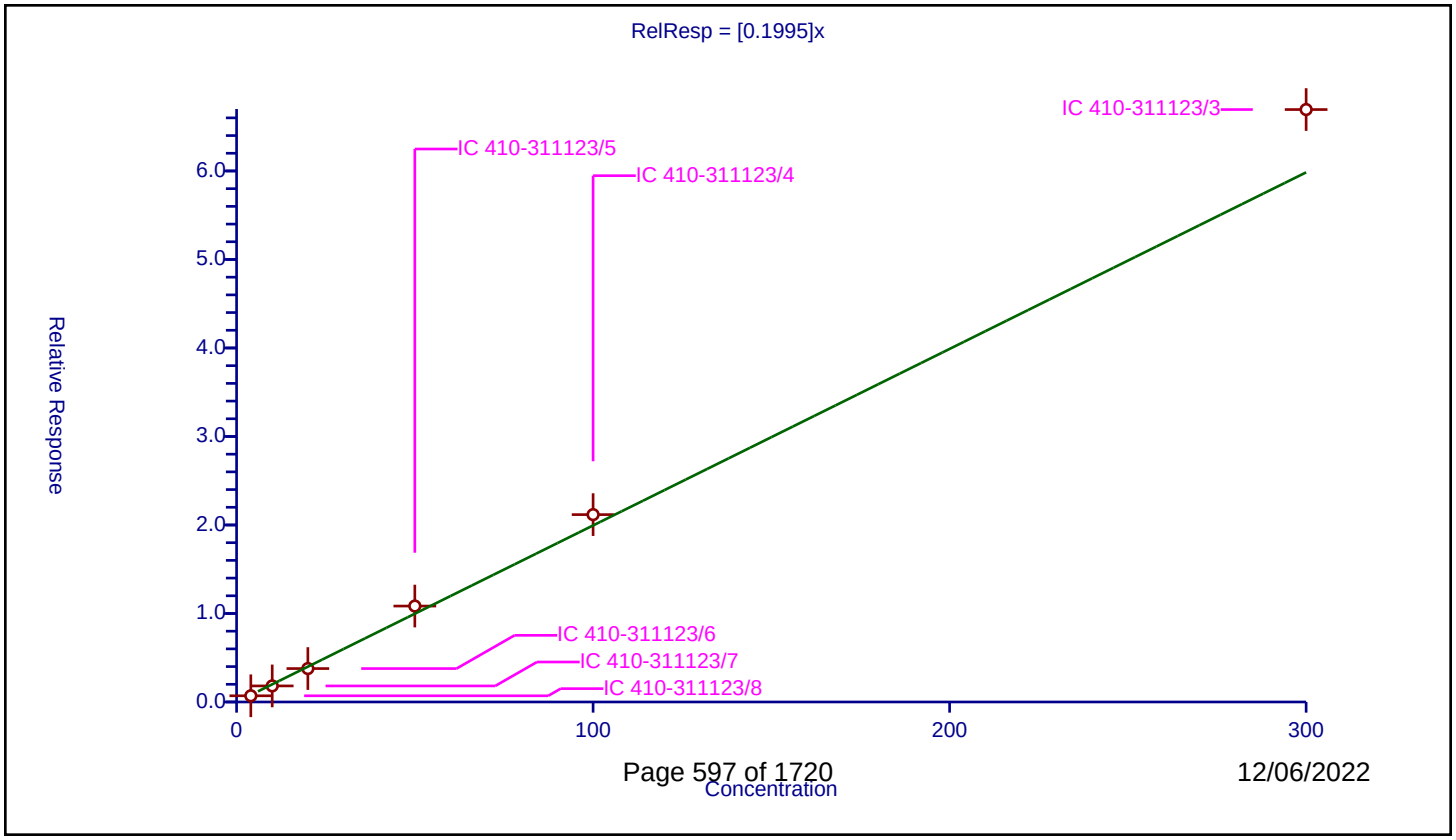
Curve Coefficients

Intercept:	0
Slope:	0.1995

Error Coefficients

Standard Error:	806000
Relative Standard Error:	10.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/8	4.0	0.699669	50.0	1344707.0	0.174917	Y
2	IC 410-311123/7	10.0	1.814405	50.0	1310237.0	0.18144	Y
3	IC 410-311123/6	20.0	3.776416	50.0	1326999.0	0.188821	Y
4	IC 410-311123/5	50.0	10.839368	50.0	1304315.0	0.216787	Y
5	IC 410-311123/4	100.0	21.170121	50.0	1297763.0	0.211701	Y
6	IC 410-311123/3	300.0	66.939424	50.0	1262537.0	0.223131	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

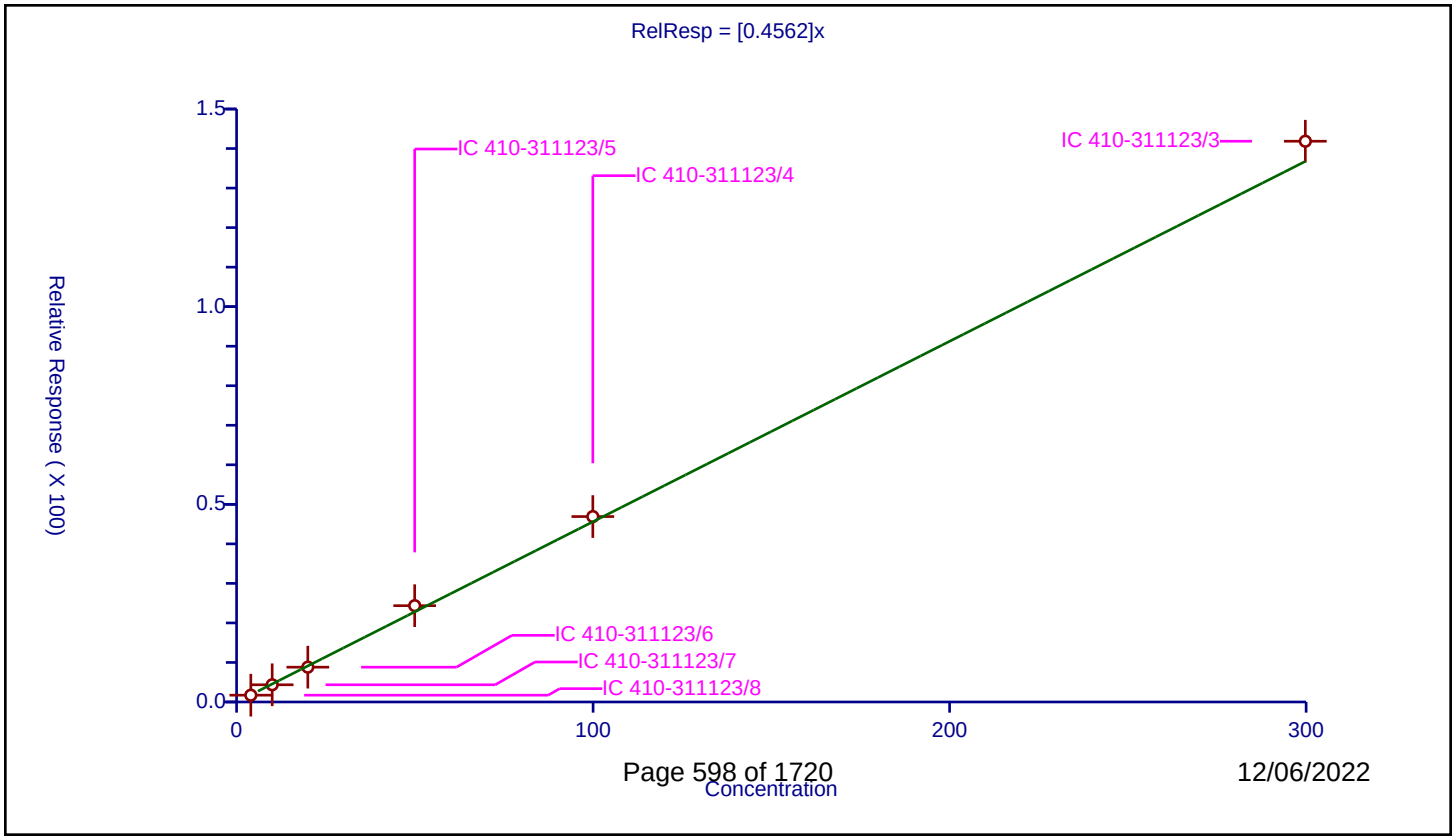
Curve Coefficients

Intercept:	0
Slope:	0.4562

Error Coefficients

Standard Error:	1440000
Relative Standard Error:	5.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/8	3.997084	1.72166	50.0	1023634.0	0.430729	Y
2	IC 410-311123/7	9.99271	4.351658	50.0	1022208.0	0.435483	Y
3	IC 410-311123/6	19.98542	8.808971	50.0	1049101.0	0.44077	Y
4	IC 410-311123/5	49.96355	24.362956	50.0	1052360.0	0.487615	Y
5	IC 410-311123/4	99.9271	46.903997	50.0	1058623.0	0.469382	Y
6	IC 410-311123/3	299.7813	141.849169	50.0	1064873.0	0.473176	Y



Calibration / n-Butyl acetate

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

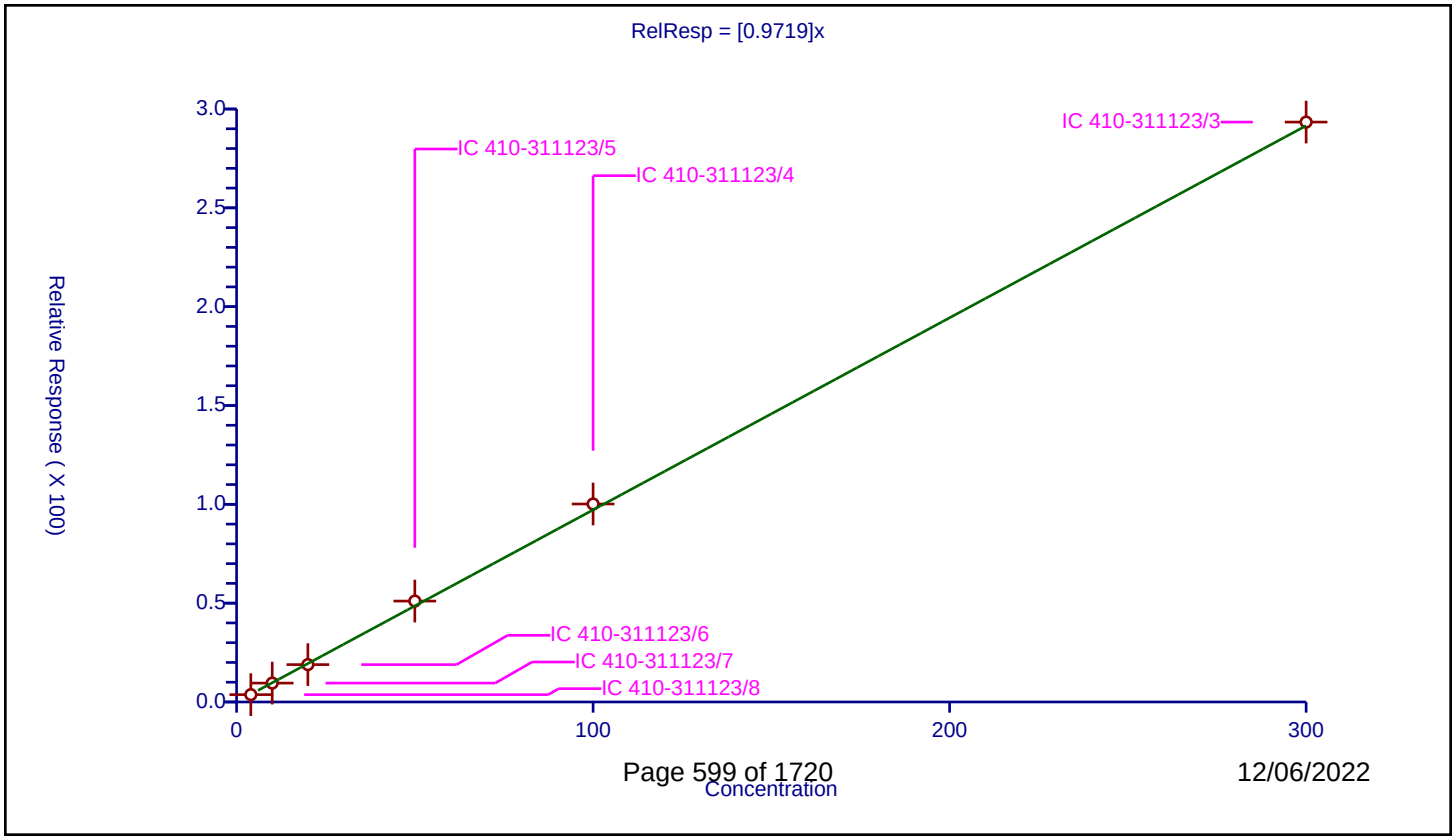
Curve Coefficients

Intercept:	0
Slope:	0.9719

Error Coefficients

Standard Error:	3000000
Relative Standard Error:	3.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/8	4.0	3.718224	50.0	1023634.0	0.929556	Y
2	IC 410-311123/7	10.0	9.556128	50.0	1022208.0	0.955613	Y
3	IC 410-311123/6	20.0	18.902232	50.0	1049101.0	0.945112	Y
4	IC 410-311123/5	50.0	51.061329	50.0	1052360.0	1.021227	Y
5	IC 410-311123/4	100.0	100.162664	50.0	1058623.0	1.001627	Y
6	IC 410-311123/3	300.0	293.39555	50.0	1064873.0	0.977985	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

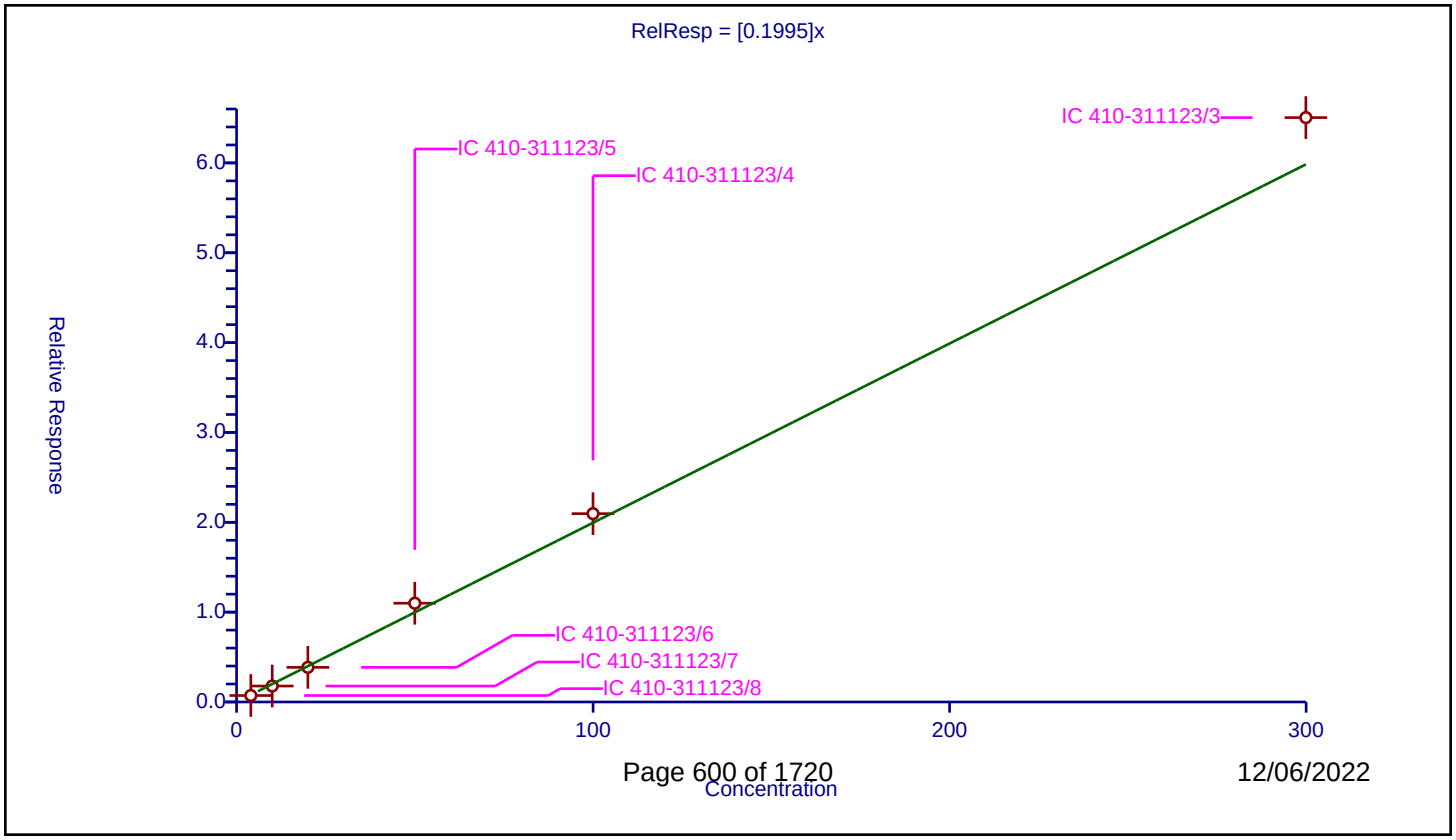
Curve Coefficients

Intercept:	0
Slope:	0.1995

Error Coefficients

Standard Error:	660000
Relative Standard Error:	9.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/8	3.999074	0.720277	50.0	1023634.0	0.180111	Y
2	IC 410-311123/7	9.997686	1.776644	50.0	1022208.0	0.177706	Y
3	IC 410-311123/6	19.995372	3.854348	50.0	1049101.0	0.192762	Y
4	IC 410-311123/5	49.98843	10.992294	50.0	1052360.0	0.219897	Y
5	IC 410-311123/4	99.97686	20.960956	50.0	1058623.0	0.209658	Y
6	IC 410-311123/3	299.93058	65.045362	50.0	1064873.0	0.216868	Y



Calibration / 2,3,4-Trichlorobutene

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

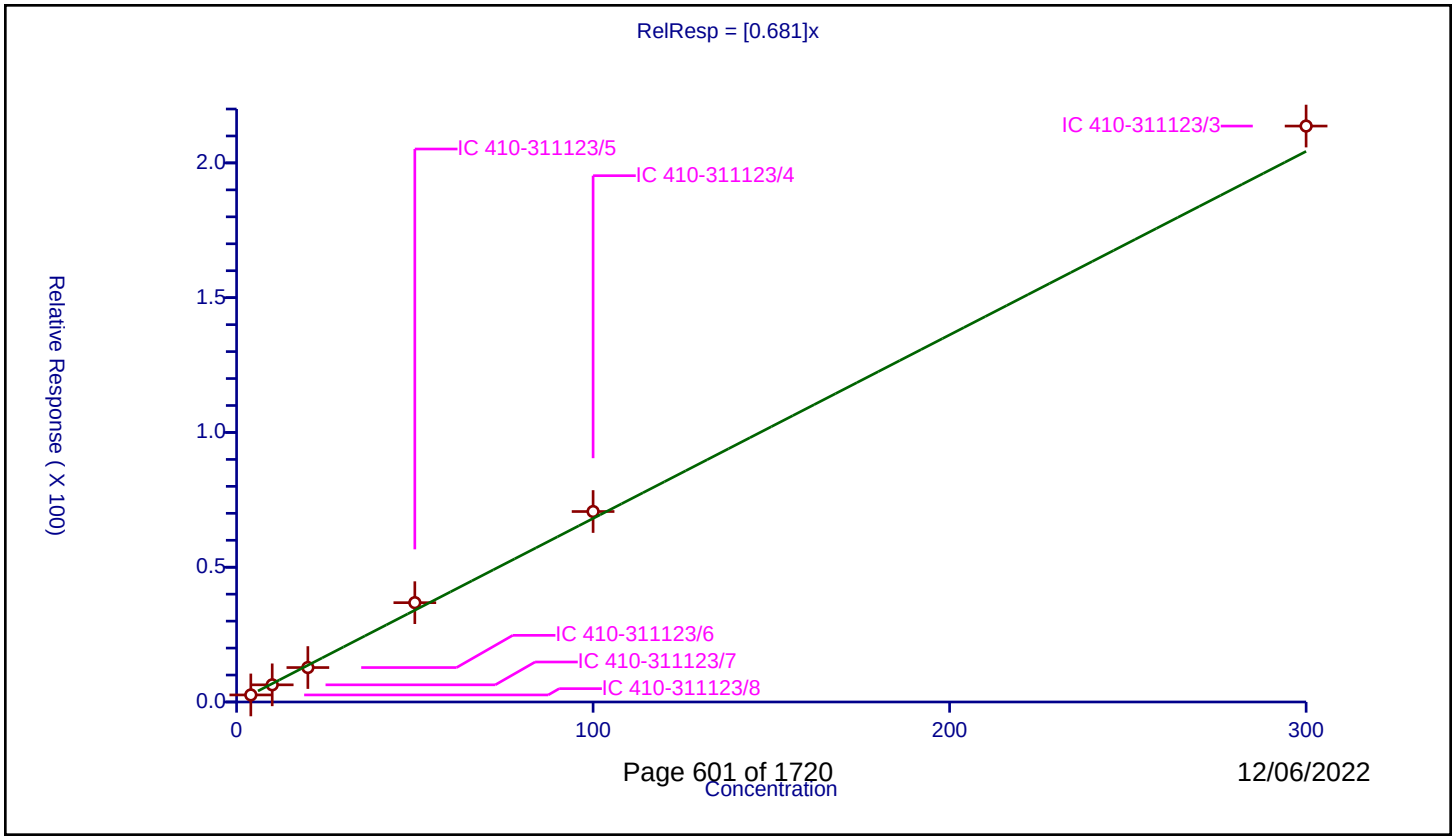
Curve Coefficients

Intercept:	0
Slope:	0.681

Error Coefficients

Standard Error:	1230000
Relative Standard Error:	6.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/8	3.999981	2.6175	50.0	584661.0	0.654378	Y
2	IC 410-311123/7	9.999953	6.368236	50.0	576070.0	0.636827	Y
3	IC 410-311123/6	19.999906	12.77343	50.0	593067.0	0.638675	Y
4	IC 410-311123/5	49.999765	36.85199	50.0	599296.0	0.737043	Y
5	IC 410-311123/4	99.99953	70.660965	50.0	599638.0	0.706613	Y
6	IC 410-311123/3	299.99859	213.681937	50.0	600434.0	0.712276	Y



Calibration / Pentachloroethane

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

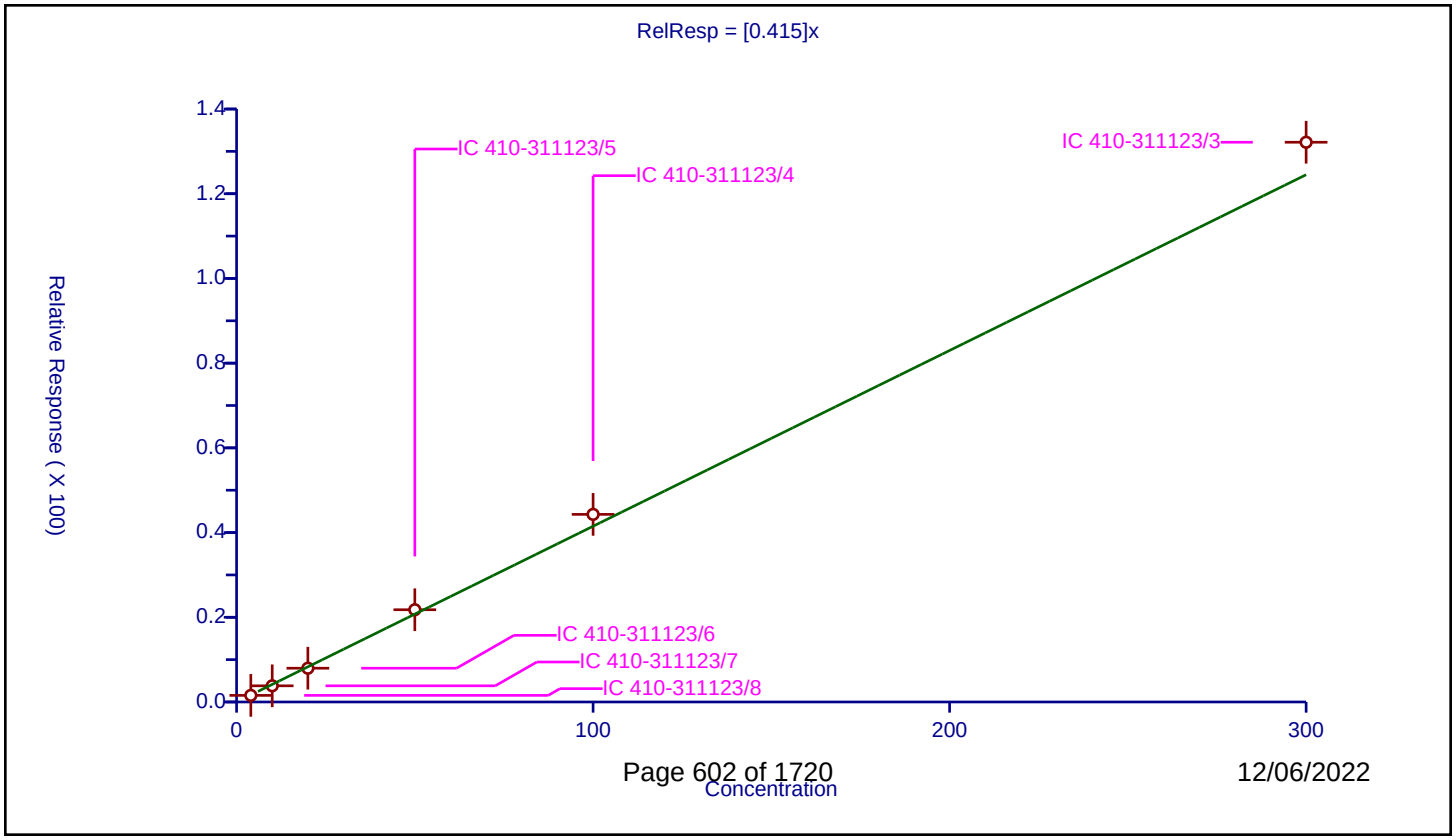
Curve Coefficients

Intercept:	0
Slope:	0.415

Error Coefficients

Standard Error:	759000
Relative Standard Error:	6.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/8	4.0	1.561247	50.0	584661.0	0.390312	Y
2	IC 410-311123/7	10.0	3.817939	50.0	576070.0	0.381794	Y
3	IC 410-311123/6	20.0	7.970685	50.0	593067.0	0.398534	Y
4	IC 410-311123/5	50.0	21.780472	50.0	599296.0	0.435609	Y
5	IC 410-311123/4	100.0	44.296059	50.0	599638.0	0.442961	Y
6	IC 410-311123/3	300.0	132.152493	50.0	600434.0	0.440508	Y



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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1 Analy Batch No.: 311123

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/27/2022 15:47 Calibration End Date: 10/27/2022 17:46 Calibration ID: 43695

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-311123/17	WC27X16.D
Level 2	IC 410-311123/16	WC27X15.D
Level 3	IC 410-311123/15	WC27X14.D
Level 4	IC 410-311123/14	WC27X13.D
Level 5	ICIS 410-311123/13	WC27X12.D
Level 6	IC 410-311123/12	WC27X11.D
Level 7	IC 410-311123/11	WC27X10.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.7489 0.5963	0.7127 0.5691	0.6679	0.5814	0.5896	Ave		0.6380			0.1000	11.2		20.0			
Chloromethane	0.7014 0.6529	0.7039 0.6309	0.6661	0.6220	0.6684	Ave		0.6636			0.1000	4.8		20.0			
1,3-Butadiene	0.6694 0.5947	0.7441 0.5812	0.6459	0.5972	0.5953	Ave		0.6326				9.3		20.0			
Vinyl chloride	0.6156 0.6253	0.6785 0.6066	0.6381	0.6225	0.6293	Ave		0.6308			0.1000	3.7		20.0			
Bromomethane	0.4070 0.3511	0.3894 0.3342	0.3492	0.3531	0.3546	Ave		0.3626			0.1000	7.1		20.0			
Chloroethane	0.2972 0.3125	0.3466 0.3104	0.3186	0.3074	0.3089	Ave		0.3145			0.1000	4.9		20.0			
Dichlorofluoromethane	0.7819 0.7055	0.7489 0.6932	0.7361	0.7038	0.7112	Ave		0.7258			0.1000	4.3		20.0			
Trichlorofluoromethane	0.5514 0.6366	0.6865 0.6313	0.6429	0.6142	0.6305	Ave		0.6276			0.1000	6.4		20.0			
n-Pentane	0.6320 0.5386	0.5210 0.4852	0.4876	0.5437	0.5211	Ave		0.5327				9.2		20.0			
Freon 123a	0.5354 0.4019	0.4537 0.4036	0.4127	0.4022	0.3875	Ave		0.4281				12.1		20.0			
Ethanol	0.1154 0.0898	0.1011 0.0786	0.0882	0.0885	0.0966	Ave		0.0940				12.6		20.0			
Acrolein	+++++ 0.8800	1.3114 1.2021	1.1137	1.1987	1.2004	Ave		1.1510				12.8		20.0			
1,1-Dichloroethene	0.3053 0.2840	0.3058 0.2774	0.2721	0.2720	0.2825	Ave		0.2856			0.1000	5.0		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1 Analy Batch No.: 311123

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/27/2022 15:47 Calibration End Date: 10/27/2022 17:46 Calibration ID: 43695

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Freon 113	0.2663 0.3290	0.3139 0.2903	0.2946	0.3144	0.3224	Ave		0.3044			0.1000	7.2		20.0			
Acetone	+++++ 0.4699	0.7731 0.6292	0.6521	0.7034	0.6287	Ave		0.6427			0.1000	15.7		20.0			
2-Propanol	0.7283 0.7274	0.6655 0.7032	0.6916	0.6813	0.6828	Ave		0.6972				3.4		20.0			
Methyl iodide	0.3910 0.4481	0.4494 0.4322	0.4291	0.4432	0.4452	Ave		0.4340				4.7		20.0			
Carbon disulfide	0.7938 0.8902	0.9065 0.8408	0.8332	0.8815	0.8895	Ave		0.8622			0.1000	4.7		20.0			
Allyl chloride	0.5552 0.5066	0.4976 0.4980	0.4947	0.4827	0.5187	Ave		0.5076				4.7		20.0			
Methyl acetate	0.4618 0.4270	0.3683 0.3663	0.4197	0.4421	0.4189	Ave		0.4149			0.1000	8.6		20.0			
Methylene Chloride	0.3441 0.3108	0.3447 0.3016	0.3091	0.3151	0.3109	Ave		0.3195			0.1000	5.5		20.0			
t-Butyl alcohol	1.1893 1.1417	1.1446 1.1148	1.1227	1.1533	1.1702	Ave		1.1481				2.3		20.0			
Acrylonitrile	0.2273 0.2207	0.2272 0.2121	0.2146	0.2217	0.2215	Ave		0.2207				2.6		20.0			
trans-1,2-Dichloroethene	0.2857 0.2913	0.2856 0.2823	0.2736	0.2859	0.2901	Ave		0.2849			0.1000	2.0		20.0			
Methyl tertiary butyl ether	0.9650 1.0077	1.0456 0.9313	0.9628	0.9840	0.9978	Ave		0.9849			0.1000	3.7		20.0			
n-Hexane	0.5339 0.4193	0.4011 0.3314	0.4006	0.4151	0.4121	Ave		0.4162				14.4		20.0			
1,1-Dichloroethane	0.4644 0.5449	0.5534 0.5255	0.5152	0.5414	0.5371	Ave		0.5260			0.2000	5.7		20.0			
di-Isopropyl ether	1.0141 1.0805	1.0551 1.0214	1.0560	1.0695	1.0727	Ave		1.0527				2.4		20.0			
2-Chloro-1,3-butadiene	0.4609 0.4936	0.5120 0.4766	0.4719	0.4959	0.4905	Ave		0.4859				3.5		20.0			
Ethyl t-butyl ether	0.9370 1.0260	1.0056 0.9959	0.9978	1.0072	1.0190	Ave		0.9984				2.9		20.0			
cis-1,2-Dichloroethene	0.3309 0.3126	0.3029 0.2997	0.3008	0.3120	0.3117	Ave		0.3101			0.1000	3.5		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1 Analy Batch No.: 311123

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/27/2022 15:47 Calibration End Date: 10/27/2022 17:46 Calibration ID: 43695

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
2,2-Dichloropropane	0.5253 0.5353	0.5577 0.5030	0.4992	0.5174	0.5176	Ave		0.5222				3.8		20.0			
2-Butanone	0.3937 0.2292	0.3576 0.2963	0.2865	0.3251	0.3203	Ave		0.3155			0.1000	16.7		20.0			
Propionitrile	1.1488 0.9664	0.9380 0.9639	0.9349	0.9246	0.9638	Ave		0.9772				7.9		20.0			
Methacrylonitrile	0.2007 0.2048	0.2005 0.1964	0.1970	0.2023	0.2036	Ave		0.2008				1.6		20.0			
Bromochloromethane	0.1532 0.1439	0.1425 0.1400	0.1444	0.1421	0.1429	Ave		0.1442				2.9		20.0			
Tetrahydrofuran	0.8432 0.7461	0.7435 0.7506	0.7345	0.7547	0.7323	Ave		0.7578				5.1		20.0			
Chloroform	0.5096 0.4878	0.5254 0.4668	0.4720	0.4894	0.4869	Ave		0.4911			0.2000	4.2		20.0			
1,1,1-Trichloroethane	0.4967 0.4974	0.4759 0.4735	0.4725	0.4926	0.4894	Ave		0.4854			0.1000	2.3		20.0			
Cyclohexane	0.6413 0.6775	0.6254 0.5846	0.6132	0.6586	0.6558	Ave		0.6366			0.1000	4.9		20.0			
1,1-Dichloropropene	0.3956 0.4355	0.4513 0.4066	0.3992	0.4242	0.4257	Ave		0.4197				4.8		20.0			
Carbon tetrachloride	0.3330 0.4054	0.3748 0.3791	0.3701	0.3842	0.3925	Ave		0.3770			0.1000	6.0		20.0			
Isobutyl alcohol	0.3473 0.3321	0.3340 0.3270	0.3220	0.3369	0.3279	Ave		0.3325				2.5		20.0			
Benzene	1.2055 1.2645	1.2035 1.1917	1.2001	1.2545	1.2542	Ave		1.2249			0.5000	2.6		20.0			
1,2-Dichloroethane	0.3726 0.3860	0.3686 0.3715	0.3837	0.3739	0.3842	Ave		0.3772			0.1000	1.9		20.0			
t-Amyl methyl ether	0.9020 0.9972	0.9479 0.9778	0.9392	0.9709	0.9828	Ave		0.9597				3.4		20.0			
n-Heptane	0.4576 0.3967	0.3753 0.2907	0.3587	0.4004	0.3930	Ave		0.3818				13.2		20.0			
n-Butanol	0.2771 0.2909	0.2871 0.2848	0.2794	0.2959	0.2958	Ave		0.2873				2.6		20.0			
Trichloroethene	0.2793 0.3106	0.3048 0.2958	0.2901	0.2956	0.3052	Ave		0.2973			0.2000	3.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1 Analy Batch No.: 311123

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/27/2022 15:47 Calibration End Date: 10/27/2022 17:46 Calibration ID: 43695

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Methylcyclohexane	0.4564 0.5496	0.5240 0.4448	0.5059	0.5337	0.5299	Ave		0.5063			0.1000	8.0		20.0			
1,2-Dichloropropane	0.3142 0.3357	0.3223 0.3224	0.3097	0.3267	0.3298	Ave		0.3230			0.1000	2.8		20.0			
t-Amyl ethyl ether	0.4086 0.4609	0.4317 0.4577	0.4245	0.4382	0.4445	Ave		0.4380				4.2		20.0			
Dibromomethane	0.2108 0.1909	0.1835 0.1854	0.1834	0.1839	0.1925	Ave		0.1901				5.2		20.0			
Methyl methacrylate	0.3241 0.3176	0.3142 0.3033	0.3013	0.3070	0.3183	Ave		0.3123				2.7		20.0			
1,4-Dioxane	0.0559 0.0688	0.0695 0.0655	0.0690	0.0721	0.0722	Ave		0.0676			0.0050	8.3		20.0			
Bromodichloromethane	0.3559 0.3671	0.3600 0.3601	0.3331	0.3553	0.3591	Ave		0.3558			0.2000	3.0		20.0			
2-Nitropropane	1.5820 1.4093	1.3749 1.4197	1.2608	1.3339	1.3674	Ave		1.3926				7.1		20.0			
2-Chloroethyl vinyl ether	0.2284 0.2509	0.2129 0.2429	0.2267	0.2392	0.2549	Ave		0.2366				6.3		20.0			
cis-1,3-Dichloropropene	0.4210 0.5022	0.4542 0.4837	0.4481	0.4695	0.4897	Ave		0.4669			0.2000	6.0		20.0			
4-Methyl-2-pentanone	0.6361 0.4792	0.6314 0.5977	0.5900	0.6605	0.6576	Ave		0.6075			0.1000	10.3		20.0			
Toluene	0.8502 0.9937	0.9919 0.9293	0.9760	1.0011	0.9855	Ave		0.9611			0.4000	5.7		20.0			
trans-1,3-Dichloropropene	0.5686 0.5794	0.5455 0.5464	0.5368	0.5716	0.5730	Ave		0.5602			0.1000	3.0		20.0			
Ethyl methacrylate	0.5784 0.6740	0.6497 0.6295	0.6294	0.6606	0.6873	Ave		0.6441				5.6		20.0			
1,1,2-Trichloroethane	0.4052 0.3421	0.3840 0.3307	0.3409	0.3472	0.3468	Ave		0.3567			0.1000	7.6		20.0			
Tetrachloroethene	0.3232 0.3868	0.3816 0.3488	0.3673	0.3831	0.3830	Ave		0.3677			0.2000	6.4		20.0			
1,3-Dichloropropane	0.6048 0.6075	0.5961 0.5755	0.5849	0.6011	0.6095	Ave		0.5970				2.1		20.0			
2-Hexanone	0.4976 0.4289	0.6055 0.5186	0.5523	0.6119	0.5928	Ave		0.5439			0.1000	12.3		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1 Analy Batch No.: 311123

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/27/2022 15:47 Calibration End Date: 10/27/2022 17:46 Calibration ID: 43695

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dibromochloromethane	0.3258 0.3567	0.3285 0.3492	0.3277	0.3325	0.3463	Ave		0.3381				3.7		20.0			
1,2-Dibromoethane	0.3315 0.3729	0.3493 0.3517	0.3533	0.3590	0.3720	Ave		0.3557			0.1000	4.0		20.0			
1-Chlorohexane	0.5956 0.5168	0.5530 0.4327	0.4977	0.5217	0.5091	Ave		0.5181				9.7		20.0			
Chlorobenzene	1.0086 0.9949	0.9601 0.9346	0.9652	0.9879	0.9889	Ave		0.9772			0.5000	2.6		20.0			
1,1,1,2-Tetrachloroethane	0.3657 0.3838	0.3552 0.3622	0.3616	0.3646	0.3780	Ave		0.3673				2.7		20.0			
Ethylbenzene	1.7012 1.8750	1.8644 1.6283	1.8213	1.9042	1.8928	Ave		1.8125			0.1000	5.9		20.0			
m&p-Xylene	0.6133 0.7082	0.7009 0.6274	0.6912	0.7167	0.7096	Ave		0.6810			0.1000	6.2		20.0			
o-Xylene	0.6688 0.7428	0.7282 0.6745	0.7251	0.7528	0.7306	Ave		0.7175			0.3000	4.6		20.0			
Styrene	0.9818 1.1812	1.1127 1.0783	1.1249	1.1596	1.1795	Ave		1.1168			0.3000	6.3		20.0			
Bromoform	0.2074 0.2748	0.2448 0.2707	0.2404	0.2599	0.2721	Ave		0.2529			0.1000	9.6		20.0			
Isopropylbenzene	1.5799 1.8780	1.8671 1.5423	1.8837	1.9349	1.9017	Ave		1.7982			0.1000	9.1		20.0			
Cyclohexanone	0.2711 0.3005	0.3027 0.2776	0.2988	0.3277	0.3345	Ave		0.3019				7.7		20.0			
Bromobenzene	0.6815 0.7534	0.7167 0.7128	0.7335	0.7379	0.7502	Ave		0.7266				3.5		20.0			
1,1,2,2-Tetrachloroethane	1.2146 1.2142	1.2316 1.1483	1.2115	1.2424	1.2466	Ave		1.2156			0.3000	2.7		20.0			
1,2,3-Trichloropropane	0.4016 0.3364	0.3492 0.3213	0.3327	0.3510	0.3494	Ave		0.3488				7.4		20.0			
trans-1,4-Dichloro-2-butene	0.3540 0.3783	0.3917 0.3522	0.3627	0.3894	0.3821	Ave		0.3729				4.4		20.0			
N-Propylbenzene	3.3981 3.8375	3.9190 3.0053	3.7161	3.9343	3.9331	Ave		3.6776				9.6		20.0			
2-Chlorotoluene	0.6972 0.7765	0.7619 0.7063	0.7467	0.7725	0.7674	Ave		0.7469				4.3		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1 Analy Batch No.: 311123

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/27/2022 15:47 Calibration End Date: 10/27/2022 17:46 Calibration ID: 43695

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,3,5-Trimethylbenzene	2.4316 2.8232	2.7873 2.3626	2.7057	2.8722	2.8579	Ave		2.6915				7.8		20.0			
4-Chlorotoluene	0.7565 0.7395	0.7331 0.6958	0.7170	0.7401	0.7453	Ave		0.7325				2.7		20.0			
tert-Butylbenzene	0.4459 0.5361	0.4913 0.4578	0.4815	0.5122	0.5380	Ave		0.4947				7.3		20.0			
1,2,4-Trimethylbenzene	2.5941 2.8637	2.8106 2.4102	2.7879	2.9370	2.9170	Ave		2.7601				6.9		20.0			
sec-Butylbenzene	2.8355 3.2713	3.2020 2.5155	3.1617	3.3513	3.3221	Ave		3.0942				9.9		20.0			
1,3-Dichlorobenzene	1.3487 1.3779	1.4090 1.2504	1.3517	1.4122	1.3961	Ave		1.3637			0.6000	4.1		20.0			
p-Isopropyltoluene	2.3682 2.7891	2.7233 2.1887	2.6716	2.8432	2.8297	Ave		2.6305				9.6		20.0			
1,4-Dichlorobenzene	1.4716 1.4170	1.4661 1.2785	1.4254	1.4666	1.4420	Ave		1.4239			0.5000	4.7		20.0			
1,2,3-Trimethylbenzene	2.5691 2.9926	2.8815 2.5439	2.9094	3.0356	3.0412	Ave		2.8533				7.4		20.0			
Benzyl chloride	2.2403 2.4549	2.4033 2.1908	2.3641	2.4780	2.5125	Ave		2.3777				5.1		20.0			
1,3-Diethylbenzene	1.5181 1.6816	1.5354 1.3474	1.6091	1.7055	1.6954	Ave		1.5847				8.1		20.0			
1,4-Diethylbenzene	1.3888 1.6842	1.7015 1.3429	1.6502	1.7453	1.7037	Ave		1.6024				10.3		20.0			
n-Butylbenzene	1.1440 1.3817	1.4082 1.0902	1.3386	1.4128	1.4151	Ave		1.3130				10.5		20.0			
1,2-Dichlorobenzene	1.2693 1.4425	1.4571 1.3128	1.4070	1.4523	1.4655	Ave		1.4009			0.4000	5.6		20.0			
1,2-Diethylbenzene	1.1769 1.4132	1.4145 1.1661	1.3226	1.3999	1.4068	Ave		1.3286				8.4		20.0			
1,2-Dibromo-3-Chloropropane	0.3335 0.3407	0.3617 0.3183	0.3417	0.3468	0.3445	Ave		0.3410			0.0500	3.9		20.0			
1,3,5-Trichlorobenzene	0.8842 0.9680	0.9826 0.8006	0.9635	1.0273	0.9836	Ave		0.9443				8.1		20.0			
1,2,4-Trichlorobenzene	0.8458 0.9679	0.9814 0.8174	0.9703	1.0008	0.9911	Ave		0.9393			0.2000	8.0		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1 Analy Batch No.: 311123

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/27/2022 15:47 Calibration End Date: 10/27/2022 17:46 Calibration ID: 43695

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Hexachlorobutadiene	0.2530 0.3500	0.3537 0.2710	0.3365	0.3556	0.3648	Ave		0.3264				13.8		20.0			
Naphthalene	4.1717 4.0925	4.4037 3.2925	4.2728	4.3818	4.3093	Ave		4.1320				9.3		20.0			
1,2,3-Trichlorobenzene	0.9083 1.0065	1.0068 0.8522	0.9983	1.0523	1.0334	Ave		0.9797				7.4		20.0			
2-Methylnaphthalene	2.2576 2.3050	2.3389 1.8444	2.2419	2.4087	2.3952	Ave		2.2559				8.5		20.0			
Dibromofluoromethane (Surr)	0.2314 0.2297	0.2327 0.2321	0.2284	0.2348	0.2316	Ave		0.2315				0.9		20.0			
1,2-Dichloroethane-d4 (Surr)	0.0620 0.0616	0.0605 0.0626	0.0636	0.0610	0.0628	Ave		0.0620				1.7		20.0			
Toluene-d8 (Surr)	1.3336 1.3140	1.3359 1.2906	1.3443	1.3315	1.3174	Ave		1.3239				1.4		20.0			
4-Bromofluorobenzene (Surr)	0.5139 0.5212	0.5145 0.5133	0.5205	0.5172	0.5090	Ave		0.5156				0.8		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1 Analy Batch No.: 311123

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/27/2022 15:47 Calibration End Date: 10/27/2022 17:46 Calibration ID: 43695

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-311123/17	WC27X16.D
Level 2	IC 410-311123/16	WC27X15.D
Level 3	IC 410-311123/15	WC27X14.D
Level 4	IC 410-311123/14	WC27X13.D
Level 5	ICIS 410-311123/13	WC27X12.D
Level 6	IC 410-311123/12	WC27X11.D
Level 7	IC 410-311123/11	WC27X10.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	20914 1682704	77064 4987486	188491	323573	820919	1.00 100	4.00 300	10.0	20.0	50.0
Chloromethane	FB	Ave	19586 1842326	76108 5528704	187979	346149	930603	1.00 100	4.00 300	10.0	20.0	50.0
1,3-Butadiene	FB	Ave	18694 1678201	80457 5093451	182269	332369	828906	1.00 100	4.00 300	10.0	20.0	50.0
Vinyl chloride	FB	Ave	17191 1764424	73362 5315788	180064	346466	876213	1.00 100	4.00 300	10.0	20.0	50.0
Bromomethane	FB	Ave	11365 990820	42101 2928513	98533	196531	493663	1.00 100	4.00 300	10.0	20.0	50.0
Chloroethane	FB	Ave	8298 881777	37481 2720257	89921	171054	430107	1.00 100	4.00 300	10.0	20.0	50.0
Dichlorofluoromethane	FB	Ave	21833 1990867	80976 6074386	207724	391693	990279	1.00 100	4.00 300	10.0	20.0	50.0
Trichlorofluoromethane	FB	Ave	15397 1796354	74233 5532583	181424	341847	877853	1.00 100	4.00 300	10.0	20.0	50.0
n-Pentane	FB	Ave	17647 1519741	56336 4252043	137615	302574	725550	1.00 100	4.00 300	10.0	20.0	50.0
Freon 123a	FB	Ave	14951 1134189	49054 3536520	116461	223838	539492	1.00 100	4.00 300	10.0	20.0	50.0
Ethanol	TBAd 10	Ave	17366 680826	73163 1742147	132557	265630	360529	62.5 2500	250 7500	500	1000	1250
Acrolein	TBAd 10	Ave	+++++ 2668722	151814 10663546	334755	719847	1792076	+++++ 1000	40.0 3000	100	200	500
1,1-Dichloroethene	FB	Ave	8525	33065	76792	151395	393335	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 Env Job No.: 410-106360-1 Analy Batch No.: 311123

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/27/2022 15:47 Calibration End Date: 10/27/2022 17:46 Calibration ID: 43695

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
			801281	2430806				100	300			
Freon 113	FB	Ave	7435 928319	33938 2543664	83125	174962	448815	1.00 100	4.00 300	10.0	20.0	50.0
Acetone	TBAd 10	Ave	+++++ 285002	17901 1116301	39203	84473	187723	+++++ 200	8.00 600	20.0	40.0	100
2-Propanol	TBAd 10	Ave	35061 1102986	154084 3118728	207893	409133	509694	20.0 500	80.0 1500	100	200	250
Methyl iodide	FB	Ave	10919 1264411	48591 3787520	121091	246657	619840	1.00 100	4.00 300	10.0	20.0	50.0
Carbon disulfide	FB	Ave	22167 2511921	98015 7367861	235138	490588	1238460	1.00 100	4.00 300	10.0	20.0	50.0
Allyl chloride	FB	Ave	15505 1429509	53799 4364206	139602	268636	722239	1.00 100	4.00 300	10.0	20.0	50.0
Methyl acetate	FB	Ave	12896 1205050	39819 3210157	118454	246044	583190	1.00 100	4.00 300	10.0	20.0	50.0
Methylene Chloride	FB	Ave	9608 876944	37274 2643271	87238	175356	432882	1.00 100	4.00 300	10.0	20.0	50.0
t-Butyl alcohol	TBAd 10	Ave	57249 1731191	265023 4944593	337455	692531	873513	20.0 500	80.0 1500	100	200	250
Acrylonitrile	FB	Ave	15870 1557022	61415 4646001	151390	308528	770888	2.50 250	10.0 750	25.0	50.0	125
trans-1,2-Dichloroethene	FB	Ave	7977 821966	30884 2474044	77205	159104	403884	1.00 100	4.00 300	10.0	20.0	50.0
Methyl tertiary butyl ether	FB	Ave	26948 2843444	113058 8160893	271712	547641	1389284	1.00 100	4.00 300	10.0	20.0	50.0
n-Hexane	FB	Ave	14910 1183149	43366 2904061	113062	231030	573793	1.00 100	4.00 300	10.0	20.0	50.0
1,1-Dichloroethane	FB	Ave	12967 1537728	59832 4605218	145388	301312	747824	1.00 100	4.00 300	10.0	20.0	50.0
di-Isopropyl ether	FB	Ave	28318 3048866	114083 8950895	297999	595228	1493472	1.00 100	4.00 300	10.0	20.0	50.0
2-Chloro-1,3-butadiene	FB	Ave	12870 1392830	55362 4176878	133179	276005	682901	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 Env Job No.: 410-106360-1 Analy Batch No.: 311123

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/27/2022 15:47 Calibration End Date: 10/27/2022 17:46 Calibration ID: 43695

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
Ethyl t-butyl ether	FB	Ave	26166 2895229	108727 8727152	281579	560543	1418797	1.00 100	4.00 300	10.0	20.0	50.0
cis-1,2-Dichloroethene	FB	Ave	9240 882032	32746 2626092	84880	173651	434017	1.00 100	4.00 300	10.0	20.0	50.0
2,2-Dichloropropane	FB	Ave	14668 1510427	60297 4408157	140886	287961	720637	1.00 100	4.00 300	10.0	20.0	50.0
2-Butanone	FB	Ave	21985 1293415	77336 5192417	161720	361873	891970	2.00 200	8.00 600	20.0	40.0	100
Propionitrile	TBAd 10	Ave	55301 1465381	217179 4275069	280999	555237	719432	20.0 500	80.0 1500	100	200	250
Methacrylonitrile	FB	Ave	56042 1445043	216800 4303088	278009	562961	708607	10.0 250	40.0 750	50.0	100	125
Bromochloromethane	FB	Ave	4277 406090	15413 1226914	40759	79087	199031	1.00 100	4.00 300	10.0	20.0	50.0
Tetrahydrofuran	TBAd 10	Ave	10147 1131320	43039 3329167	110389	226588	546635	5.00 500	20.0 1500	50.0	100	250
Chloroform	FB	Ave	14231 1376536	56812 4090985	133194	272385	677874	1.00 100	4.00 300	10.0	20.0	50.0
1,1,1-Trichloroethane	FB	Ave	13870 1403473	51458 4149636	133327	274126	681355	1.00 100	4.00 300	10.0	20.0	50.0
Cyclohexane	FB	Ave	17907 1911773	67617 5122813	173060	366526	913036	1.00 100	4.00 300	10.0	20.0	50.0
1,1-Dichloropropene	FB	Ave	11046 1228807	48799 3563041	112650	236104	592671	1.00 100	4.00 300	10.0	20.0	50.0
Carbon tetrachloride	FB	Ave	9299 1144078	40524 3321791	104445	213810	546455	1.00 100	4.00 300	10.0	20.0	50.0
Isobutyl alcohol	TBAd 10	Ave	41794 1259148	193349 3625941	241982	505747	611993	50.0 1250	200 3750	250	500	625
Benzene	FB	Ave	33663 3568284	130130 10443368	338677	698188	1746274	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Dichloroethane	FB	Ave	10406 1089238	39851 3255827	108281	208096	534907	1.00 100	4.00 300	10.0	20.0	50.0
t-Amyl methyl ether	FB	Ave	25189	102491	265036	540363	1368403	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 Env Job No.: 410-106360-1 Analy Batch No.: 311123

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/27/2022 15:47 Calibration End Date: 10/27/2022 17:46 Calibration ID: 43695

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
			2813852	8568908				100	300			
n-Heptane	FB	Ave	12778 1119483	40584 2547290	101235	222833	547201	1.00 100	4.00 300	10.0	20.0	50.0
n-Butanol	TBAd 10	Ave	58349 1102678	290836 3158321	314895	666328	552036	87.5 1250	350 3750	375	750	625
Trichloroethene	FB	Ave	7798 876483	32958 2591817	81867	164490	424990	1.00 100	4.00 300	10.0	20.0	50.0
Methylcyclohexane	FB	Ave	12746 1550749	56658 3898134	142777	297023	737751	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Dichloropropane	FB	Ave	8775 947390	34847 2824857	87401	181849	459227	1.00 100	4.00 300	10.0	20.0	50.0
t-Amyl ethyl ether	FB	Ave	11409 1300434	46673 4010619	119793	243863	618884	1.00 100	4.00 300	10.0	20.0	50.0
Dibromomethane	FB	Ave	5886 538723	19842 1624472	51761	102367	268025	1.00 100	4.00 300	10.0	20.0	50.0
Methyl methacrylate	FB	Ave	9049 896153	33974 2658225	85027	170874	443105	1.00 100	4.00 300	10.0	20.0	50.0
1,4-Dioxane	TBAd 10	Ave	6728 260864	40211 725972	51815	108219	134681	50.0 1250	200 3750	250	500	625
Bromodichloromethane	FB	Ave	9937 1036026	38924 3155891	94012	197749	499996	1.00 100	4.00 300	10.0	20.0	50.0
2-Nitropropane	TBAd 10	Ave	19038 2136952	79584 6296747	189493	400493	1020702	5.00 500	20.0 1500	50.0	100	250
2-Chloroethyl vinyl ether	FB	Ave	6377 708014	23015 2128705	63966	133150	354964	1.00 100	4.00 300	10.0	20.0	50.0
cis-1,3-Dichloropropene	FB	Ave	11756 1417036	49110 4239134	126446	261313	681750	1.00 100	4.00 300	10.0	20.0	50.0
4-Methyl-2-pentanone	FB	Ave	35526 2704642	136543 10476341	332998	735226	1831210	2.00 200	8.00 600	20.0	40.0	100
Toluene	CBZd 5	Ave	17246 2205962	79139 6495277	204487	417177	1053635	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 Env Job No.: 410-106360-1 Analy Batch No.: 311123

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/27/2022 15:47 Calibration End Date: 10/27/2022 17:46 Calibration ID: 43695

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
trans-1,3-Dichloropropene	CBZd 5	Ave	11535 1286321	43525 3818808	112470	238197	612673	1.00 100	4.00 300	10.0	20.0	50.0
Ethyl methacrylate	CBZd 5	Ave	11732 1496202	51839 4399946	131872	275310	734796	1.00 100	4.00 300	10.0	20.0	50.0
1,1,2-Trichloroethane	CBZd 5	Ave	8219 759521	30642 2311736	71422	144687	370758	1.00 100	4.00 300	10.0	20.0	50.0
Tetrachloroethene	CBZd 5	Ave	6556 858650	30449 2437661	76962	159671	409481	1.00 100	4.00 300	10.0	20.0	50.0
1,3-Dichloropropane	CBZd 5	Ave	12268 1348554	47561 4022180	122541	250513	651709	1.00 100	4.00 300	10.0	20.0	50.0
2-Hexanone	CBZd 5	Ave	20188 1904313	96617 7249833	231424	509964	1267704	2.00 200	8.00 600	20.0	40.0	100
Dibromochloromethane	CBZd 5	Ave	6609 791788	26211 2440611	68656	138559	370265	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Dibromoethane	CBZd 5	Ave	6724 827799	27871 2458233	74026	149624	397744	1.00 100	4.00 300	10.0	20.0	50.0
1-Chlorohexane	CBZd 5	Ave	12082 1147181	44121 3024206	104279	217400	544314	1.00 100	4.00 300	10.0	20.0	50.0
Chlorobenzene	CBZd 5	Ave	20459 2208696	76605 6531997	202223	411673	1057331	1.00 100	4.00 300	10.0	20.0	50.0
1,1,1,2-Tetrachloroethane	CBZd 5	Ave	7418 852100	28341 2531746	75772	151961	404176	1.00 100	4.00 300	10.0	20.0	50.0
Ethylbenzene	CBZd 5	Ave	34508 4162396	148757 11380857	381603	793562	2023739	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 Env Job No.: 410-106360-1 Analy Batch No.: 311123

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/27/2022 15:47 Calibration End Date: 10/27/2022 17:46 Calibration ID: 43695

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
m&p-Xylene	CBZd 5	Ave	24880 3144185	111842 8770241	289631	597322	1517465	2.00 200	8.00 600	20.0	40.0	100
o-Xylene	CBZd 5	Ave	13566 1649104	58102 4714223	151926	313705	781165	1.00 100	4.00 300	10.0	20.0	50.0
Styrene	CBZd 5	Ave	19915 2622321	88777 7536756	235689	483241	1261068	1.00 100	4.00 300	10.0	20.0	50.0
Bromoform	CBZd 5	Ave	4208 609968	19531 1891866	50367	108319	290913	1.00 100	4.00 300	10.0	20.0	50.0
Isopropylbenzene	CBZd 5	Ave	32048 4169189	148971 10779694	394666	806346	2033265	1.00 100	4.00 300	10.0	20.0	50.0
Cyclohexanone	TBAd 10	Ave	32626 1139175	175227 3078709	224557	492023	624328	50.0 1250	200 3750	250	500	625
Bromobenzene	DCBd 4	Ave	7484 913000	31284 2686550	85107	168076	432721	1.00 100	4.00 300	10.0	20.0	50.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	13339 1471260	53756 4327787	140566	283006	719087	1.00 100	4.00 300	10.0	20.0	50.0
1,2,3-Trichloropropane	DCBd 4	Ave	4411 407676	15240 1211022	38601	79941	201533	1.00 100	4.00 300	10.0	20.0	50.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	38872 1146042	170952 3318263	210381	443489	551079	10.0 250	40.0 750	50.0	100	125
N-Propylbenzene	DCBd 4	Ave	37319 4650145	171056 11326590	431150	896168	2268708	1.00 100	4.00 300	10.0	20.0	50.0
2-Chlorotoluene	DCBd 4	Ave	7657 940925	33255 2661884	86636	175962	442679	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 Env Job No.: 410-106360-1 Analy Batch No.: 311123

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/27/2022 15:47 Calibration End Date: 10/27/2022 17:46 Calibration ID: 43695

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
1,3,5-Trimethylbenzene	DCBd 4	Ave	26704 3421018	121662 8904362	313919	654238	1648496	1.00 100	4.00 300	10.0	20.0	50.0
4-Chlorotoluene	DCBd 4	Ave	8308 896061	32000 2622388	83193	168578	429925	1.00 100	4.00 300	10.0	20.0	50.0
tert-Butylbenzene	DCBd 4	Ave	4897 649672	21444 1725485	55862	116667	310343	1.00 100	4.00 300	10.0	20.0	50.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	28489 3470104	122679 9083933	323459	669005	1682572	1.00 100	4.00 300	10.0	20.0	50.0
sec-Butylbenzene	DCBd 4	Ave	31140 3964066	139761 9480659	366834	763369	1916287	1.00 100	4.00 300	10.0	20.0	50.0
1,3-Dichlorobenzene	DCBd 4	Ave	14812 1669725	61499 4712603	156828	321682	805329	1.00 100	4.00 300	10.0	20.0	50.0
p-Isopropyltoluene	DCBd 4	Ave	26008 3379732	118865 8249178	309969	647632	1632249	1.00 100	4.00 300	10.0	20.0	50.0
1,4-Dichlorobenzene	DCBd 4	Ave	16162 1717046	63991 4818472	165383	334066	831765	1.00 100	4.00 300	10.0	20.0	50.0
1,2,3-Trimethylbenzene	DCBd 4	Ave	28215 3626370	125771 9587587	337555	691457	1754239	1.00 100	4.00 300	10.0	20.0	50.0
Benzyl chloride	DCBd 4	Ave	24604 2974702	104901 8256866	274284	564448	1449263	1.00 100	4.00 300	10.0	20.0	50.0
1,3-Diethylbenzene	DCBd 4	Ave	16672 2037736	67018 5078371	186697	388478	977973	1.00 100	4.00 300	10.0	20.0	50.0
1,4-Diethylbenzene	DCBd 4	Ave	15252 2040889	74267 5061176	191458	397560	982712	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 Env Job No.: 410-106360-1 Analy Batch No.: 311123

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/27/2022 15:47 Calibration End Date: 10/27/2022 17:46 Calibration ID: 43695

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
n-Butylbenzene	DCBd 4	Ave	12564 1674299	61467 4108729	155308	321822	816271	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Dichlorobenzene	DCBd 4	Ave	13940 1747965	63599 4947875	163238	330808	845336	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Diethylbenzene	DCBd 4	Ave	12925 1712479	61740 4394983	153454	318873	811501	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	3663 412844	15788 1199813	39648	79003	198700	1.00 100	4.00 300	10.0	20.0	50.0
1,3,5-Trichlorobenzene	DCBd 4	Ave	9711 1172976	42889 3017474	111789	233996	567341	1.00 100	4.00 300	10.0	20.0	50.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	9289 1172869	42837 3080698	112578	227971	571707	1.00 100	4.00 300	10.0	20.0	50.0
Hexachlorobutadiene	DCBd 4	Ave	2779 424132	15438 1021473	39038	80995	210437	1.00 100	4.00 300	10.0	20.0	50.0
Naphthalene	DCBd 4	Ave	45815 4959099	192212 12409272	495746	998095	2485699	1.00 100	4.00 300	10.0	20.0	50.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	9975 1219697	43943 3211748	115826	239694	596085	1.00 100	4.00 300	10.0	20.0	50.0
2-Methylnaphthalene	DCBd 4	Ave	24793 2793126	102086 6951326	260110	548664	1381609	1.00 100	4.00 300	10.0	20.0	50.0
Dibromofluoromethane (Surr)	FB	Ave	323109 324034	314484 339016	322290	326631	322484	50.0 50.0	50.0 50.0	50.0	50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	86576 86847	81804 91442	89788	84867	87397	50.0 50.0	50.0 50.0	50.0	50.0	50.0
Toluene-d8 (Surr)	CBZd 5	Ave	1352577	1332369	1408324	1387248	1408544	50.0	50.0	50.0	50.0	50.0

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1 Analy Batch No.: 311123

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/27/2022 15:47 Calibration End Date: 10/27/2022 17:46 Calibration ID: 43695

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
			1458469	1503460				50.0	50.0			
4-Bromofluorobenzene (Surr)	CBZd 5	Ave	521176 578485	513121 597904	545285	538873	544213	50.0 50.0	50.0 50.0	50.0	50.0	50.0

Curve Type Legend
Ave = Average ISTD

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1 Analy Batch No.: 311123

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/27/2022 15:47 Calibration End Date: 10/27/2022 17:46 Calibration ID: 43695

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-311123/17	WC27X16.D
Level 2	IC 410-311123/16	WC27X15.D
Level 3	IC 410-311123/15	WC27X14.D
Level 4	IC 410-311123/14	WC27X13.D
Level 5	ICIS 410-311123/13	WC27X12.D
Level 6	IC 410-311123/12	WC27X11.D
Level 7	IC 410-311123/11	WC27X10.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	17.4 -10.8	11.7	4.7	-8.9	-7.6	-6.5	50 30	30	30	30	30	30
Chloromethane	5.7 -4.9	6.1	0.4	-6.3	0.7	-1.6	50 30	30	30	30	30	30
1,3-Butadiene	5.8 -8.1	17.6	2.1	-5.6	-5.9	-6.0	50 30	30	30	30	30	30
Vinyl chloride	-2.4 -3.8	7.6	1.1	-1.3	-0.2	-0.9	50 30	30	30	30	30	30
Bromomethane	12.2 -7.8	7.4	-3.7	-2.6	-2.2	-3.2	50 30	30	30	30	30	30
Chloroethane	-5.5 -1.3	10.2	1.3	-2.3	-1.8	-0.6	50 30	30	30	30	30	30
Dichlorofluoromethane	7.7 -4.5	3.2	1.4	-3.0	-2.0	-2.8	50 30	30	30	30	30	30
Trichlorofluoromethane	-12.2 0.6	9.4	2.4	-2.1	0.5	1.4	50 30	30	30	30	30	30
n-Pentane	18.6 -8.9	-2.2	-8.5	2.1	-2.2	1.1	50 30	30	30	30	30	30
Freon 123a	25.1 -5.7	6.0	-3.6	-6.1	-9.5	-6.1	50 30	30	30	30	30	30
Ethanol	22.8 -16.4	7.5	-6.2	-5.9	2.7	-4.5	50 30	30	30	30	30	30
Acrolein	+++++ 4.4	13.9	-3.2	4.1	4.3	-23.6	30	50	30	30	30	30
1,1-Dichloroethene	6.9 -2.9	7.1	-4.7	-4.7	-1.1	-0.6	50 30	30	30	30	30	30
Freon 113	-12.5 -4.6	3.1	-3.2	3.3	5.9	8.1	50 30	30	30	30	30	30

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1 Analy Batch No.: 311123

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/27/2022 15:47 Calibration End Date: 10/27/2022 17:46 Calibration ID: 43695

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
Acetone	+++++ -2.1	20.3	1.5	9.4	-2.2	-26.9	30	50	30	30	30	30
2-Propanol	4.5 0.9	-4.5	-0.8	-2.3	-2.1	4.3	50 30	30	30	30	30	30
Methyl iodide	-9.9 -0.4	3.5	-1.1	2.1	2.6	3.2	50 30	30	30	30	30	30
Carbon disulfide	-7.9 -2.5	5.1	-3.4	2.2	3.2	3.2	50 30	30	30	30	30	30
Allyl chloride	9.4 -1.9	-2.0	-2.6	-4.9	2.2	-0.2	50 30	30	30	30	30	30
Methyl acetate	11.3 -11.7	-11.2	1.2	6.6	1.0	2.9	50 30	30	30	30	30	30
Methylene Chloride	7.7 -5.6	7.9	-3.2	-1.4	-2.7	-2.7	50 30	30	30	30	30	30
t-Butyl alcohol	3.6 -2.9	-0.3	-2.2	0.5	1.9	-0.6	50 30	30	30	30	30	30
Acrylonitrile	3.0 -3.9	2.9	-2.8	0.5	0.3	0.0	50 30	30	30	30	30	30
trans-1,2-Dichloroethene	0.3 -0.9	0.2	-4.0	0.3	1.8	2.2	50 30	30	30	30	30	30
Methyl tertiary butyl ether	-2.0 -5.4	6.2	-2.2	-0.1	1.3	2.3	50 30	30	30	30	30	30
n-Hexane	28.3 -20.4	-3.6	-3.7	-0.3	-1.0	0.7	50 30	30	30	30	30	30
1,1-Dichloroethane	-11.7 -0.1	5.2	-2.1	2.9	2.1	3.6	50 30	30	30	30	30	30
di-Isopropyl ether	-3.7 -3.0	0.2	0.3	1.6	1.9	2.6	50 30	30	30	30	30	30
2-Chloro-1,3-butadiene	-5.2 -1.9	5.4	-2.9	2.1	0.9	1.6	50 30	30	30	30	30	30
Ethyl t-butyl ether	-6.1 -0.2	0.7	-0.1	0.9	2.1	2.8	50 30	30	30	30	30	30
cis-1,2-Dichloroethene	6.7 -3.4	-2.3	-3.0	0.6	0.5	0.8	50 30	30	30	30	30	30
2,2-Dichloropropane	0.6 -3.7	6.8	-4.4	-0.9	-0.9	2.5	50 30	30	30	30	30	30
2-Butanone	24.8 -6.1	13.3	-9.2	3.0	1.5	-27.4	50 30	30	30	30	30	30

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1 Analy Batch No.: 311123

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/27/2022 15:47 Calibration End Date: 10/27/2022 17:46 Calibration ID: 43695

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
Propionitrile	17.6 -1.4	-4.0	-4.3	-5.4	-1.4	-1.1	50 30	30	30	30	30	30
Methacrylonitrile	0.0 -2.2	-0.1	-1.9	0.8	1.4	2.0	50 30	30	30	30	30	30
Bromochloromethane	6.2 -2.9	-1.1	0.2	-1.4	-0.8	-0.2	50 30	30	30	30	30	30
Tetrahydrofuran	11.3 -1.0	-1.9	-3.1	-0.4	-3.4	-1.6	50 30	30	30	30	30	30
Chloroform	3.8 -4.9	7.0	-3.9	-0.3	-0.9	-0.7	50 30	30	30	30	30	30
1,1,1-Trichloroethane	2.3 -2.4	-2.0	-2.7	1.5	0.8	2.5	50 30	30	30	30	30	30
Cyclohexane	0.7 -8.2	-1.8	-3.7	3.5	3.0	6.4	50 30	30	30	30	30	30
1,1-Dichloropropene	-5.8 -3.1	7.5	-4.9	1.1	1.4	3.8	50 30	30	30	30	30	30
Carbon tetrachloride	-11.7 0.5	-0.6	-1.8	1.9	4.1	7.5	50 30	30	30	30	30	30
Isobutyl alcohol	4.5 -1.6	0.5	-3.1	1.3	-1.4	-0.1	50 30	30	30	30	30	30
Benzene	-1.6 -2.7	-1.7	-2.0	2.4	2.4	3.2	50 30	30	30	30	30	30
1,2-Dichloroethane	-1.2 -1.5	-2.3	1.7	-0.9	1.8	2.3	50 30	30	30	30	30	30
t-Amyl methyl ether	-6.0 1.9	-1.2	-2.1	1.2	2.4	3.9	50 30	30	30	30	30	30
n-Heptane	19.9 -23.9	-1.7	-6.0	4.9	2.9	3.9	50 30	30	30	30	30	30
n-Butanol	-3.6 -0.8	-0.1	-2.8	3.0	3.0	1.3	50 30	30	30	30	30	30
Trichloroethene	-6.1 -0.5	2.5	-2.4	-0.6	2.7	4.5	50 30	30	30	30	30	30
Methylcyclohexane	-9.9 -12.1	3.5	-0.1	5.4	4.6	8.5	50 30	30	30	30	30	30
1,2-Dichloropropane	-2.7 -0.2	-0.2	-4.1	1.2	2.1	3.9	50 30	30	30	30	30	30
t-Amyl ethyl ether	-6.7 4.5	-1.4	-3.1	0.0	1.5	5.2	50 30	30	30	30	30	30

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1 Analy Batch No.: 311123

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/27/2022 15:47 Calibration End Date: 10/27/2022 17:46 Calibration ID: 43695

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
Dibromomethane	10.9 -2.5	-3.4	-3.5	-3.2	1.3	0.4	50 30	30	30	30	30	30
Methyl methacrylate	3.8 -2.9	0.6	-3.5	-1.7	1.9	1.7	50 30	30	30	30	30	30
1,4-Dioxane	-17.2 -3.1	2.8	2.1	6.7	6.8	1.9	50 30	30	30	30	30	30
Bromodichloromethane	0.0 1.2	1.2	-6.4	-0.1	0.9	3.2	50 30	30	30	30	30	30
2-Nitropropane	13.6 1.9	-1.3	-9.5	-4.2	-1.8	1.2	50 30	30	30	30	30	30
2-Chloroethyl vinyl ether	-3.5 2.7	-10.0	-4.2	1.1	7.8	6.1	50 30	30	30	30	30	30
cis-1,3-Dichloropropene	-9.8 3.6	-2.7	-4.0	0.6	4.9	7.6	50 30	30	30	30	30	30
4-Methyl-2-pentanone	4.7 -1.6	3.9	-2.9	8.7	8.2	-21.1	50 30	30	30	30	30	30
Toluene	-11.5 -3.3	3.2	1.6	4.2	2.5	3.4	50 30	30	30	30	30	30
trans-1,3-Dichloropropene	1.5 -2.5	-2.6	-4.2	2.0	2.3	3.4	50 30	30	30	30	30	30
Ethyl methacrylate	-10.2 -2.3	0.9	-2.3	2.6	6.7	4.6	50 30	30	30	30	30	30
1,1,2-Trichloroethane	13.6 -7.3	7.7	-4.4	-2.7	-2.8	-4.1	50 30	30	30	30	30	30
Tetrachloroethene	-12.1 -5.1	3.8	-0.1	4.2	4.2	5.2	50 30	30	30	30	30	30
1,3-Dichloropropane	1.3 -3.6	-0.2	-2.0	0.7	2.1	1.7	50 30	30	30	30	30	30
2-Hexanone	-8.5 -4.7	11.3	1.5	12.5	9.0	-21.1	50 30	30	30	30	30	30
Dibromochloromethane	-3.6 3.3	-2.8	-3.1	-1.7	2.4	5.5	50 30	30	30	30	30	30
1,2-Dibromoethane	-6.8 -1.1	-1.8	-0.7	0.9	4.6	4.8	50 30	30	30	30	30	30
1-Chlorohexane	15.0 -16.5	6.7	-3.9	0.7	-1.7	-0.3	50 30	30	30	30	30	30
Chlorobenzene	3.2 -4.4	-1.7	-1.2	1.1	1.2	1.8	50 30	30	30	30	30	30

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1 Analy Batch No.: 311123

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/27/2022 15:47 Calibration End Date: 10/27/2022 17:46 Calibration ID: 43695

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
1,1,1,2-Tetrachloroethane	-0.4 -1.4	-3.3	-1.5	-0.7	2.9	4.5	50 30	30	30	30	30	30
Ethylbenzene	-6.1 -10.2	2.9	0.5	5.1	4.4	3.4	50 30	30	30	30	30	30
m&p-Xylene	-10.0 -7.9	2.9	1.5	5.2	4.2	4.0	50 30	30	30	30	30	30
o-Xylene	-6.8 -6.0	1.5	1.1	4.9	1.8	3.5	50 30	30	30	30	30	30
Styrene	-12.1 -3.5	-0.4	0.7	3.8	5.6	5.8	50 30	30	30	30	30	30
Bromoform	-18.0 7.0	-3.2	-4.9	2.8	7.6	8.7	50 30	30	30	30	30	30
Isopropylbenzene	-12.1 -14.2	3.8	4.8	7.6	5.8	4.4	50 30	30	30	30	30	30
Cyclohexanone	-10.2 -8.0	0.3	-1.0	8.6	10.8	-0.5	50 30	30	30	30	30	30
Bromobenzene	-6.2 -1.9	-1.4	1.0	1.6	3.2	3.7	50 30	30	30	30	30	30
1,1,2,2-Tetrachloroethane	-0.1 -5.5	1.3	-0.3	2.2	2.6	-0.1	50 30	30	30	30	30	30
1,2,3-Trichloropropane	15.2 -7.9	0.1	-4.6	0.6	0.2	-3.5	50 30	30	30	30	30	30
trans-1,4-Dichloro-2-butene	-5.1 -5.6	5.0	-2.7	4.4	2.5	1.5	50 30	30	30	30	30	30
N-Propylbenzene	-7.6 -18.3	6.6	1.0	7.0	6.9	4.3	50 30	30	30	30	30	30
2-Chlorotoluene	-6.7 -5.4	2.0	0.0	3.4	2.7	4.0	50 30	30	30	30	30	30
1,3,5-Trimethylbenzene	-9.7 -12.2	3.6	0.5	6.7	6.2	4.9	50 30	30	30	30	30	30
4-Chlorotoluene	3.3 -5.0	0.1	-2.1	1.0	1.8	1.0	50 30	30	30	30	30	30
tert-Butylbenzene	-9.9 -7.5	-0.7	-2.7	3.5	8.8	8.4	50 30	30	30	30	30	30
1,2,4-Trimethylbenzene	-6.0 -12.7	1.8	1.0	6.4	5.7	3.8	50 30	30	30	30	30	30
sec-Butylbenzene	-8.4 -18.7	3.5	2.2	8.3	7.4	5.7	50 30	30	30	30	30	30

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1 Analy Batch No.: 311123

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/27/2022 15:47 Calibration End Date: 10/27/2022 17:46 Calibration ID: 43695

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
1,3-Dichlorobenzene	-1.1 -8.3	3.3	-0.9	3.6	2.4	1.0	50 30	30	30	30	30	30
p-Isopropyltoluene	-10.0 -16.8	3.5	1.6	8.1	7.6	6.0	50 30	30	30	30	30	30
1,4-Dichlorobenzene	3.4 -10.2	3.0	0.1	3.0	1.3	-0.5	50 30	30	30	30	30	30
1,2,3-Trimethylbenzene	-10.0 -10.8	1.0	2.0	6.4	6.6	4.9	50 30	30	30	30	30	30
Benzyl chloride	-5.8 -7.9	1.1	-0.6	4.2	5.7	3.2	50 30	30	30	30	30	30
1,3-Diethylbenzene	-4.2 -15.0	-3.1	1.5	7.6	7.0	6.1	50 30	30	30	30	30	30
1,4-Diethylbenzene	-13.3 -16.2	6.2	3.0	8.9	6.3	5.1	50 30	30	30	30	30	30
n-Butylbenzene	-12.9 -17.0	7.3	2.0	7.6	7.8	5.2	50 30	30	30	30	30	30
1,2-Dichlorobenzene	-9.4 -6.3	4.0	0.4	3.7	4.6	3.0	50 30	30	30	30	30	30
1,2-Diethylbenzene	-11.4 -12.2	6.5	-0.4	5.4	5.9	6.4	50 30	30	30	30	30	30
1,2-Dibromo-3-Chloropropane	-2.2 -6.7	6.1	0.2	1.7	1.0	-0.1	50 30	30	30	30	30	30
1,3,5-Trichlorobenzene	-6.4 -15.2	4.1	2.0	8.8	4.2	2.5	50 30	30	30	30	30	30
1,2,4-Trichlorobenzene	-9.9 -13.0	4.5	3.3	6.6	5.5	3.0	50 30	30	30	30	30	30
Hexachlorobutadiene	-22.5 -17.0	8.4	3.1	8.9	11.8	7.2	50 30	30	30	30	30	30
Naphthalene	1.0 -20.3	6.6	3.4	6.0	4.3	-1.0	50 30	30	30	30	30	30
1,2,3-Trichlorobenzene	-7.3 -13.0	2.8	1.9	7.4	5.5	2.7	50 30	30	30	30	30	30
2-Methylnaphthalene	0.1 -18.2	3.7	-0.6	6.8	6.2	2.2	50 30	30	30	30	30	30
Dibromofluoromethane (Surr)	0.0 0.3	0.5	-1.3	1.4	0.0	-0.8	50 30	30	30	30	30	30
1,2-Dichloroethane-d4 (Surr)	0.0 1.0	-2.4	2.6	-1.6	1.2	-0.7	50 30	30	30	30	30	30

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1 Analy Batch No.: 311123

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/27/2022 15:47 Calibration End Date: 10/27/2022 17:46 Calibration ID: 43695

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
Toluene-d8 (Surr)	0.7 -2.5	0.9	1.5	0.6	-0.5	-0.8	50 30	30	30	30	30	30
4-Bromofluorobenzene (Surr)	-0.3 -0.5	-0.2	0.9	0.3	-1.3	1.1	50 30	30	30	30	30	30

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X10.D
Lims ID: IC v300
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 27-Oct-2022 15:47:30 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0069757-011
Misc. Info.: IC V300
Operator ID: lcp00895 Instrument ID: 9137
Sublist: chrom-MSVoa_9137*sub28

Method: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 29-Oct-2022 01:14:35 Calib Date: 27-Oct-2022 17:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1618

First Level Reviewer: ULCP Date: 27-Oct-2022 16:35:38

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 Dichlorodifluoromethane	85	1.322	1.316	0.006	99	4987486	300.0	267.6	M
6 Chloromethane	50	1.457	1.447	0.010	100	5528704	300.0	285.2	
7 Vinyl chloride	62	1.527	1.514	0.013	99	5315788	300.0	288.5	
8 Butadiene	39	1.530	1.521	0.009	93	5093451	300.0	275.7	
10 Bromomethane	94	1.749	1.746	0.003	90	2928513	300.0	276.5	
11 Chloroethane	64	1.787	1.781	0.006	100	2720257	300.0	296.1	
12 Dichlorofluoromethane	67	1.941	1.935	0.006	99	6074386	300.0	286.5	
13 Pentane	43	1.999	1.986	0.013	98	4252043	300.0	273.2	
14 Trichlorofluoromethane	101	1.999	1.993	0.006	86	5532583	300.0	301.8	
17 1,2-Dichloro-1,1,2-trifluoroetha	67	2.185	2.172	0.013	94	3536520	300.0	282.8	
16 Ethanol	45	2.201	2.220	-0.019	92	1742147	7500.2	6266.5	a
18 Acrolein	56	2.256	2.249	0.007	99	10663546	3000.1	3133.2	
19 1,1-Dichloroethene	96	2.352	2.339	0.013	98	2430806	300.0	291.4	
20 Acetone	58	2.387	2.368	0.019	87	1116301	600.0	587.4	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.381	2.374	0.007	94	2543664	300.0	286.1	
23 Isopropyl alcohol	45	2.471	2.464	0.007	43	3118728	1500.0	1512.9	
22 Iodomethane	142	2.487	2.468	0.019	97	3787520	300.0	298.7	
24 Carbon disulfide	76	2.548	2.538	0.010	99	7367861	300.0	292.5	
25 3-Chloro-1-propene	41	2.647	2.641	0.006	93	4364206	300.0	294.3	
27 Methyl acetate	43	2.657	2.654	0.003	99	3210157	300.0	264.9	
28 Methylene Chloride	84	2.759	2.744	0.015	95	2643271	300.0	283.2	
* 29 t-Butyl alcohol-d10 (IS)	65	2.856	2.865	-0.009	81	739202	250.0	250.0	
30 2-Methyl-2-propanol	59	2.920	2.907	0.013	98	4944593	1500.0	1456.6	
31 Acrylonitrile	53	2.971	2.965	0.006	99	4646001	750.0	720.6	
33 trans-1,2-Dichloroethene	96	3.003	2.994	0.009	99	2474044	300.0	297.3	
32 Methyl tert-butyl ether	73	3.003	3.000	0.003	97	8160893	300.0	283.7	
34 Hexane	57	3.263	3.251	0.013	93	2904061	300.0	238.9	
35 1,1-Dichloroethane	63	3.388	3.382	0.006	97	4605218	300.0	299.7	
37 Isopropyl ether	45	3.465	3.453	0.012	94	8950895	300.0	291.1	
38 2-Chloro-1,3-butadiene	53	3.478	3.472	0.006	91	4176878	300.0	294.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Tert-butyl ethyl ether	59	3.805	3.793	0.012	98	8727152	300.0	299.3	
40 cis-1,2-Dichloroethene	96	3.937	3.931	0.006	84	2626092	300.0	289.9	
42 2,2-Dichloropropane	77	3.960	3.950	0.010	89	4408157	300.0	289.0	
41 2-Butanone (MEK)	43	3.956	3.950	0.006	98	5192417	600.0	563.4	
44 Propionitrile	54	4.011	4.011	0.000	98	4275069	1500.0	1479.6	
45 Methacrylonitrile	67	4.158	4.146	0.012	92	4303088	750.0	733.7	
46 Chlorobromomethane	128	4.171	4.168	0.003	94	1226914	300.0	291.4	
47 Tetrahydrofuran	71	4.223	4.213	0.010	89	3329167	1500.0	1485.7	
48 Chloroform	83	4.248	4.245	0.003	95	4090985	300.0	285.2	
$ 50 Dibromofluoromethane (Surr)	113	4.406	4.403	0.004	93	339016	50.0	50.1	
51 1,1,1-Trichloroethane	97	4.444	4.438	0.006	99	4149636	300.0	292.7	
52 Cyclohexane	56	4.508	4.499	0.009	94	5122813	300.0	275.5	
53 1,1-Dichloropropene	75	4.595	4.589	0.006	97	3563041	300.0	290.6	
54 Carbon tetrachloride	117	4.608	4.595	0.013	99	3321791	300.0	301.6	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	4.742	4.733	0.009	90	91442	50.0	50.5	
55 Isobutyl alcohol	41	4.739	4.739	0.000	94	3625941	3750.0	3688.4	
57 Benzene	78	4.800	4.797	0.003	97	10443368	300.0	291.9	
58 1,2-Dichloroethane	62	4.813	4.807	0.006	97	3255827	300.0	295.5	
60 Tert-amyl methyl ether	73	4.922	4.919	0.003	99	8568908	300.0	305.7	
* 61 Fluorobenzene (IS)	96	5.079	5.076	0.003	98	1460539	50.0	50.0	
62 n-Heptane	43	5.089	5.083	0.006	94	2547290	300.0	228.4	
63 n-Butanol	56	5.391	5.394	-0.003	90	3158321	3750.0	3718.1	
64 Trichloroethene	95	5.455	5.449	0.006	99	2591817	300.0	298.4	
65 Methylcyclohexane	83	5.667	5.664	0.003	94	3898134	300.0	263.6	
66 1,2-Dichloropropane	63	5.686	5.683	0.003	98	2824857	300.0	299.4	
67 2-ethoxy-2-methyl butane	87	5.734	5.725	0.009	92	4010619	300.0	313.5	
68 Dibromomethane	93	5.801	5.795	0.006	98	1624472	300.0	292.6	
69 Methyl methacrylate	69	5.821	5.814	0.007	95	2658225	300.0	291.4	
70 1,4-Dioxane	88	5.824	5.818	0.006	31	725972	3750.0	3634.6	
72 Dichlorobromomethane	83	5.975	5.968	0.007	100	3155891	300.0	303.6	
S 73 1,2-Dichloroethene, Total	100				0			587.2	
74 2-Nitropropane	41	6.215	6.206	0.009	98	6296747	1500.0	1529.2	
75 2-Chloroethyl vinyl ether	63	6.302	6.296	0.006	92	2128705	300.0	308.1	
77 cis-1,3-Dichloropropene	75	6.450	6.447	0.003	95	4239134	300.0	310.8	
78 4-Methyl-2-pentanone (MIBK)	43	6.629	6.626	0.003	97	10476341	600.0	590.3	
$ 79 Toluene-d8 (Surr)	98	6.745	6.739	0.006	93	1503460	50.0	48.7	
80 Toluene	92	6.815	6.812	0.003	98	6495277	300.0	290.1	
81 trans-1,3-Dichloropropene	75	7.056	7.056	0.000	97	3818808	300.0	292.6	
83 Ethyl methacrylate	69	7.178	7.175	0.003	93	4399946	300.0	293.2	
84 1,1,2-Trichloroethane	97	7.252	7.252	0.000	91	2311736	300.0	278.2	
86 Tetrachloroethene	166	7.403	7.400	0.003	97	2437661	300.0	284.6	
87 1,3-Dichloropropane	76	7.422	7.422	0.000	93	4022180	300.0	289.2	
90 2-Hexanone	43	7.525	7.525	0.000	96	7249833	600.0	572.1	
91 Chlorodibromomethane	129	7.647	7.647	0.000	91	2440611	300.0	309.8	
93 Ethylene Dibromide	107	7.752	7.749	0.003	99	2458233	300.0	296.7	
* 94 Chlorobenzene-d5 (IS)	117	8.195	8.195	0.000	87	1164900	50.0	50.0	
95 1-Chlorohexane	91	8.215	8.215	0.000	93	3024206	300.0	250.6	
96 Chlorobenzene	112	8.221	8.218	0.003	92	6531997	300.0	286.9	
97 1,1,1,2-Tetrachloroethane	131	8.301	8.298	0.003	97	2531746	300.0	295.8	
98 Ethylbenzene	91	8.327	8.324	0.003	98	11380857	300.0	269.5	
99 m-Xylene & p-Xylene	106	8.430	8.430	0.000	93	8770241	600.0	552.8	e
100 o-Xylene	106	8.770	8.767	0.003	95	4714223	300.0	282.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
101 Styrene	104	8.779	8.779	0.000	95	7536756	300.0	289.6	
102 Bromoform	173	8.920	8.921	-0.001	97	1891866	300.0	321.1	
103 Isopropylbenzene	105	9.075	9.075	0.000	97	10779694	300.0	257.3	
105 Cyclohexanone	55	9.139	9.142	-0.003	94	3078709	3750.2	3449.4	
$ 106 4-Bromofluorobenzene (Surr)	95	9.190	9.187	0.003	87	597904	50.0	49.8	
107 Bromobenzene	156	9.306	9.306	0.000	96	2686550	300.0	294.3	
108 1,1,2,2-Tetrachloroethane	83	9.309	9.309	0.000	95	4327787	300.0	283.4	
109 1,2,3-Trichloropropane	110	9.338	9.338	0.000	86	1211022	300.0	276.4	
110 trans-1,4-Dichloro-2-butene	53	9.354	9.351	0.003	96	3318263	750.0	708.3	
111 N-Propylbenzene	91	9.399	9.399	0.000	99	11326590	300.0	245.2	e
112 2-Chlorotoluene	126	9.463	9.460	0.003	96	2661884	300.0	283.7	
113 1,3,5-Trimethylbenzene	105	9.537	9.534	0.003	96	8904362	300.0	263.3	
114 4-Chlorotoluene	126	9.543	9.543	0.000	98	2622388	300.0	285.0	
116 tert-Butylbenzene	134	9.780	9.781	-0.001	94	1725485	300.0	277.6	
118 1,2,4-Trimethylbenzene	105	9.816	9.813	0.003	98	9083933	300.0	262.0	
119 sec-Butylbenzene	105	9.941	9.941	0.000	95	9480659	300.0	243.9	
141 1,3-Dichlorobenzene	146	10.018	10.018	0.000	97	4712603	300.0	275.1	
143 4-Isopropyltoluene	119	10.047	10.047	0.000	96	8249178	300.0	249.6	
S 142 1,3-Dichloropropene, Total	100				0			603.4	
* 144 1,4-Dichlorobenzene-d4	152	10.063	10.066	-0.003	96	628153	50.0	50.0	
145 1,4-Dichlorobenzene	146	10.082	10.082	0.000	93	4818472	300.0	269.4	
146 1,2,3-Trimethylbenzene	105	10.121	10.121	0.000	98	9587587	300.0	267.5	
147 Benzyl chloride	91	10.178	10.179	-0.001	99	8256866	300.0	276.4	
148 1,3-Diethylbenzene	119	10.262	10.259	0.003	94	5078371	300.0	255.1	
149 p-Diethylbenzene	119	10.323	10.320	0.003	93	5061176	300.0	251.4	
150 n-Butylbenzene	92	10.339	10.336	0.003	98	4108729	300.0	249.1	
151 1,2-Dichlorobenzene	146	10.348	10.345	0.003	96	4947875	300.0	281.1	
152 o-diethylbenzene	119	10.403	10.403	0.000	96	4394983	300.0	263.3	
153 1,2-Dibromo-3-Chloropropane	75	10.884	10.881	0.003	89	1199813	300.0	280.0	
154 1,3,5-Trichlorobenzene	180	11.029	11.029	0.000	97	3017474	300.0	254.4	
S 155 Xylenes, Total	106				0			834.7	
156 1,2,4-Trichlorobenzene	180	11.436	11.440	-0.004	95	3080698	300.0	261.1	
157 Hexachlorobutadiene	225	11.549	11.549	0.000	98	1021473	300.0	249.1	
158 Naphthalene	128	11.600	11.600	0.000	99	12409272	300.0	239.0	e
159 1,2,3-Trichlorobenzene	180	11.757	11.757	0.000	95	3211748	300.0	261.0	
160 2-Methylnaphthalene	142	12.322	12.322	0.000	91	6951326	300.0	245.3	
S 172 Total Diethylbenzene	1				0			769.8	

QC Flag Legend

Processing Flags

e - Potential Peak Saturated

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_CCV_VOC#1_00094	Amount Added:	15.00	Units: uL	
MSV_CCV_CYC_00004	Amount Added:	30.00	Units: uL	
MSV_CCV_VOC#3_00094	Amount Added:	12.00	Units: uL	
MSV_CCV_2CEVE_00090	Amount Added:	15.00	Units: uL	
MSV_CCV_ETOH_00003	Amount Added:	30.00	Units: uL	
MSV_CCV_GASES_00292	Amount Added:	7.50	Units: uL	
MSV_Cent_ISSS_00013	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 29-Oct-2022 01:14:36 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X10.D

Injection Date: 27-Oct-2022 15:47:30 Instrument ID: 9137 Operator ID: lcp00895

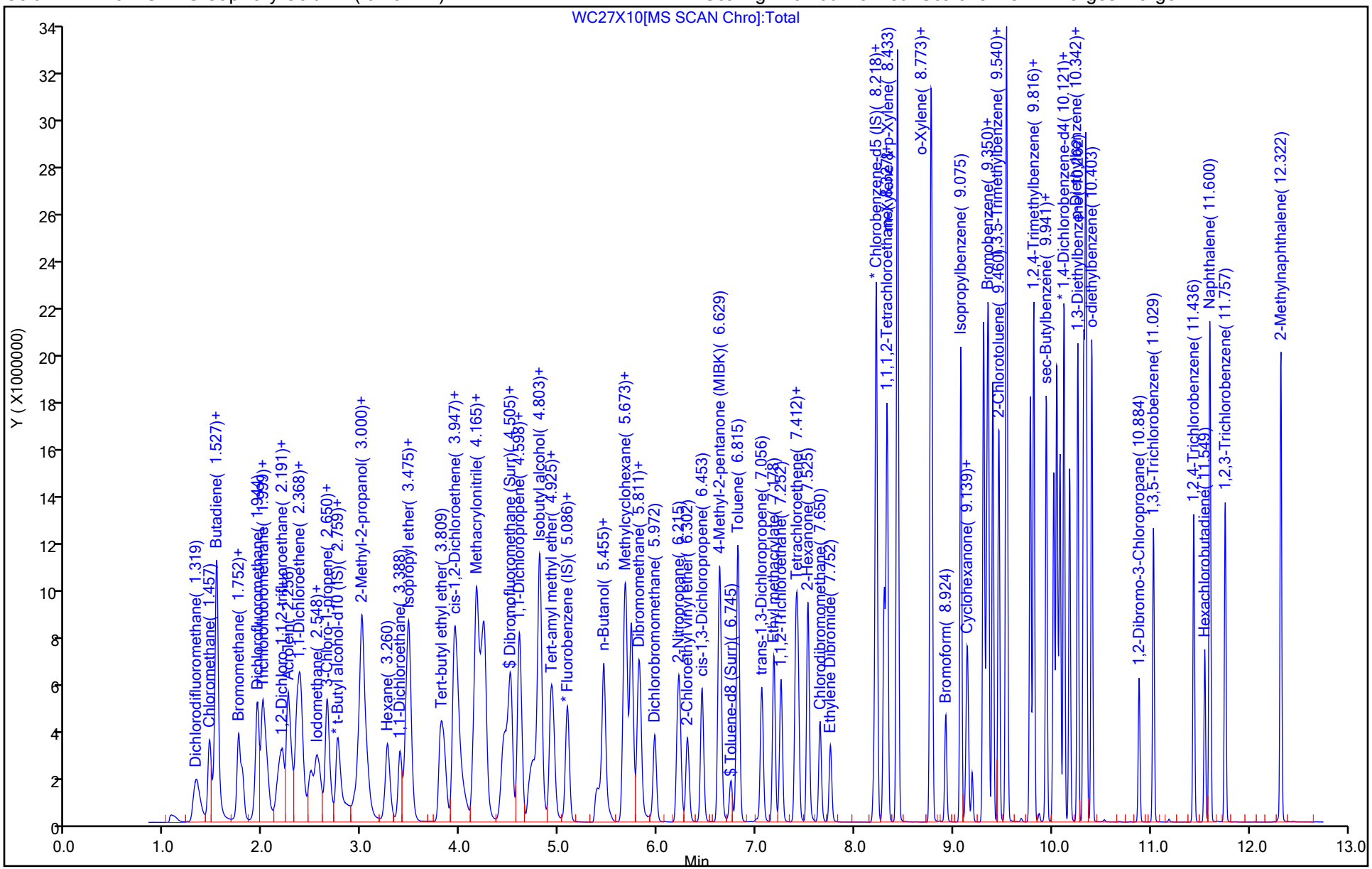
Lims ID: IC v300 Worklist Smp#: 11

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 10

Method: MSVoa_9137 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

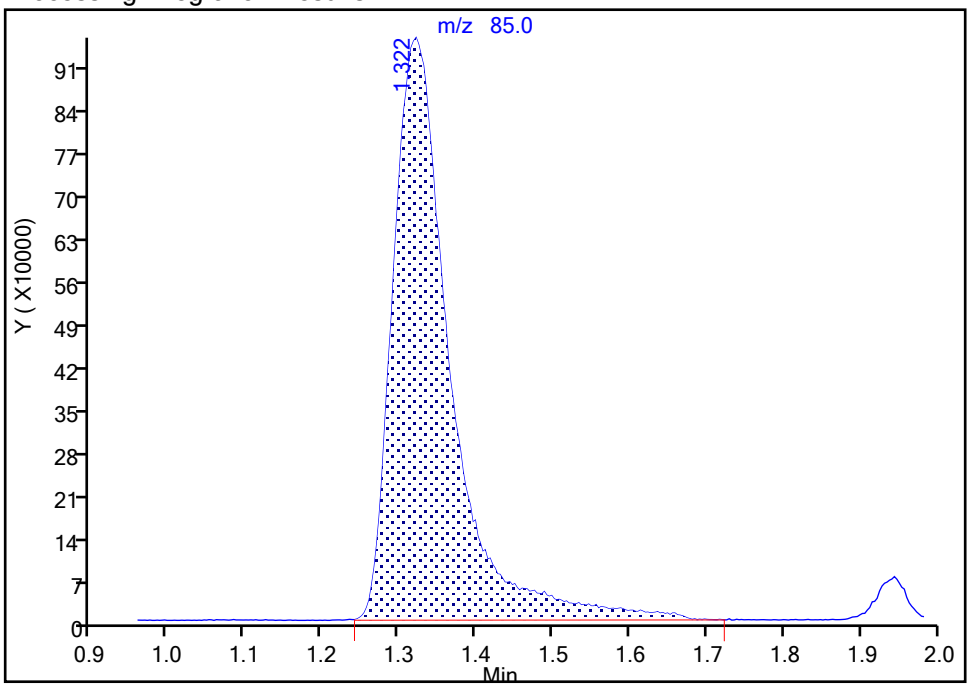
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X10.D
Injection Date: 27-Oct-2022 15:47:30 Instrument ID: 9137
Lims ID: IC v300
Client ID:
Operator ID: lcp00895 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

5 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

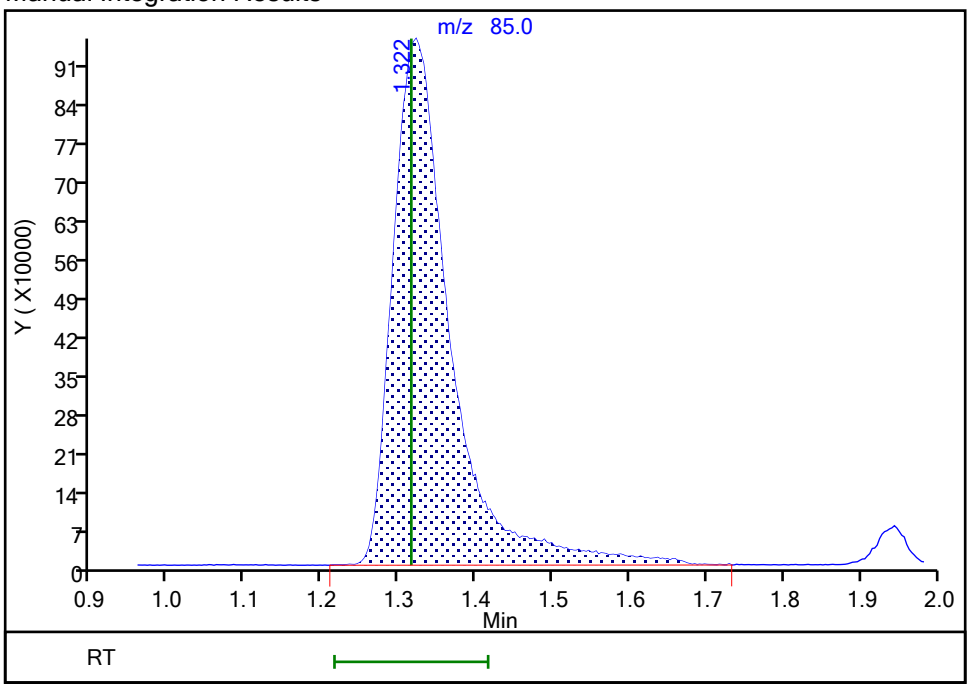
Processing Integration Results

RT: 1.32
Area: 4977962
Amount: 292.6363
Amount Units: ug/l



Manual Integration Results

RT: 1.32
Area: 4987486
Amount: 267.6154
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:34:00
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

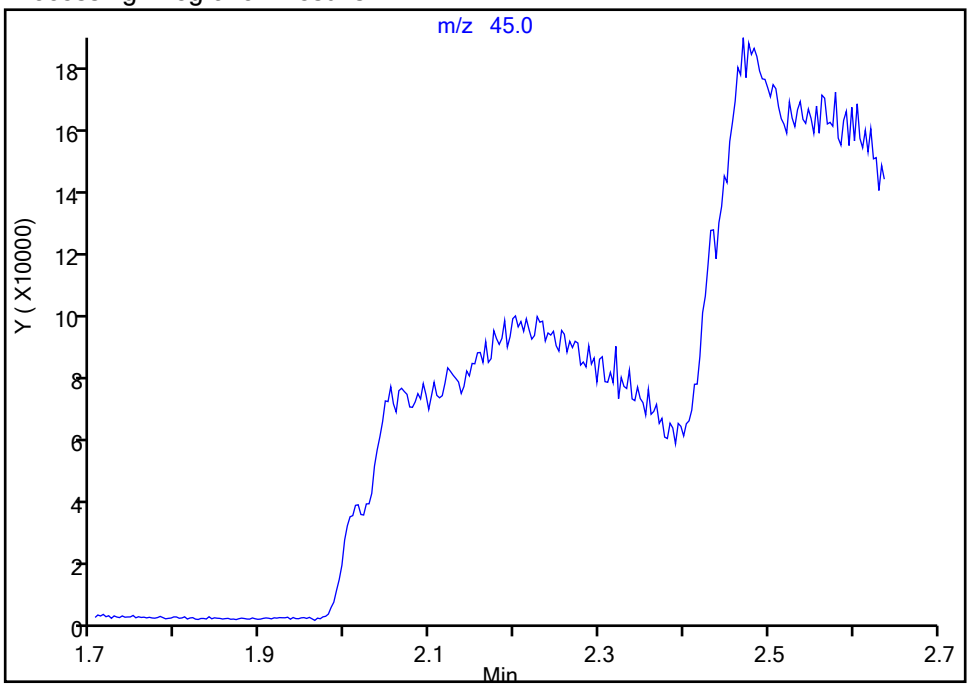
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X10.D
Injection Date: 27-Oct-2022 15:47:30 Instrument ID: 9137
Lims ID: IC v300
Client ID:
Operator ID: lcp00895 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

16 Ethanol, CAS: 64-17-5

Signal: 1

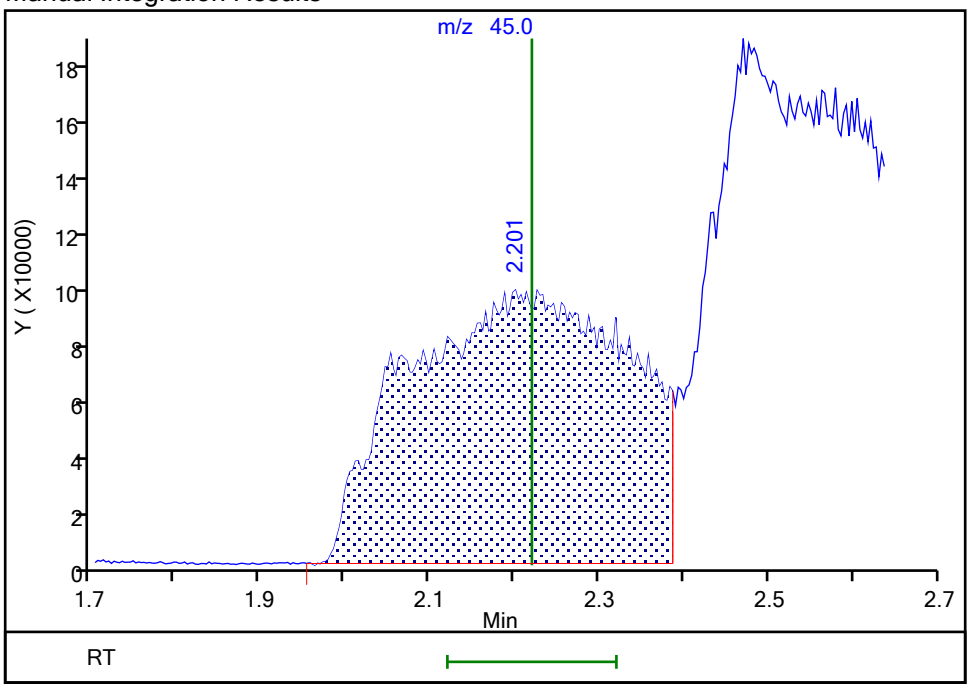
Not Detected
Expected RT: 2.22

Processing Integration Results



Manual Integration Results

RT: 2.20
Area: 1742147
Amount: 6266.4752
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:34:15
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X11.D
Lims ID: IC v100
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 27-Oct-2022 16:07:30 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0069757-012
Misc. Info.: IC V100
Operator ID: lcp00895 Instrument ID: 9137
Sublist: chrom-MSVoa_9137*sub28

Method: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 29-Oct-2022 01:14:41 Calib Date: 27-Oct-2022 17:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1618

First Level Reviewer: ULCP Date: 27-Oct-2022 16:42:31

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 Dichlorodifluoromethane	85	1.312	1.316	-0.004	99	1682704	100.0	93.5	M
6 Chloromethane	50	1.450	1.447	0.003	100	1842326	100.0	98.4	
7 Vinyl chloride	62	1.521	1.514	0.007	91	1764424	100.0	99.1	
8 Butadiene	39	1.524	1.521	0.003	91	1678201	100.0	94.0	
10 Bromomethane	94	1.742	1.746	-0.004	90	990820	100.0	96.8	
11 Chloroethane	64	1.781	1.781	0.000	95	881777	100.0	99.4	
12 Dichlorofluoromethane	67	1.935	1.935	0.000	98	1990867	100.0	97.2	
13 Pentane	43	1.996	1.986	0.010	97	1519741	100.0	101.1	
14 Trichlorofluoromethane	101	1.996	1.993	0.003	73	1796354	100.0	101.4	
17 1,2-Dichloro-1,1,2-trifluoroetha	67	2.172	2.172	0.000	95	1134189	100.0	93.9	
16 Ethanol	45	2.240	2.220	0.020	33	680826	2500.1	2387.6	a
18 Acrolein	56	2.246	2.249	-0.003	100	2668722	1000.0	764.5	M
19 1,1-Dichloroethene	96	2.345	2.339	0.006	99	801281	100.0	99.4	
20 Acetone	58	2.368	2.368	0.000	87	285002	200.0	146.2	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.378	2.374	0.004	96	928319	100.0	108.1	
23 Isopropyl alcohol	45	2.477	2.464	0.013	51	1102986	500.0	521.7	M
22 Iodomethane	142	2.477	2.468	0.009	97	1264411	100.0	103.2	
24 Carbon disulfide	76	2.544	2.538	0.006	99	2511921	100.0	103.2	
25 3-Chloro-1-propene	41	2.644	2.641	0.003	93	1429509	100.0	99.8	
27 Methyl acetate	43	2.657	2.654	0.003	98	1205050	100.0	102.9	
28 Methylene Chloride	84	2.750	2.744	0.006	94	876944	100.0	97.3	
* 29 t-Butyl alcohol-d10 (IS)	65	2.846	2.865	-0.019	81	758183	250.0	250.0	
30 2-Methyl-2-propanol	59	2.923	2.907	0.016	98	1731191	500.0	497.2	
31 Acrylonitrile	53	2.965	2.965	0.000	100	1557022	250.0	250.0	
33 trans-1,2-Dichloroethene	96	3.003	2.994	0.009	97	821966	100.0	102.2	
32 Methyl tert-butyl ether	73	3.000	3.000	0.000	91	2843444	100.0	102.3	
34 Hexane	57	3.260	3.251	0.010	94	1183149	100.0	100.7	
35 1,1-Dichloroethane	63	3.382	3.382	0.000	96	1537728	100.0	103.6	
37 Isopropyl ether	45	3.456	3.453	0.003	94	3048866	100.0	102.6	
38 2-Chloro-1,3-butadiene	53	3.472	3.472	0.000	91	1392830	100.0	101.6	

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	3.802	3.793	0.009	99	2895229	100.0	102.8	
40 cis-1,2-Dichloroethene	96	3.937	3.931	0.006	88	882032	100.0	100.8	
42 2,2-Dichloropropane	77	3.953	3.950	0.003	89	1510427	100.0	102.5	
41 2-Butanone (MEK)	43	3.947	3.950	-0.003	74	1293415	200.0	145.3	
44 Propionitrile	54	4.004	4.011	-0.007	99	1465381	500.0	494.5	
45 Methacrylonitrile	67	4.152	4.146	0.006	92	1445043	250.0	255.1	
46 Chlorobromomethane	128	4.162	4.168	-0.006	96	406090	100.0	99.8	
47 Tetrahydrofuran	71	4.216	4.213	0.003	89	1131320	500.0	492.2	
48 Chloroform	83	4.242	4.245	-0.003	94	1376536	100.0	99.3	
$ 50 Dibromofluoromethane (Surr)	113	4.399	4.403	-0.003	93	324034	50.0	49.6	
51 1,1,1-Trichloroethane	97	4.441	4.438	0.003	99	1403473	100.0	102.5	
52 Cyclohexane	56	4.508	4.499	0.009	93	1911773	100.0	106.4	
53 1,1-Dichloropropene	75	4.592	4.589	0.003	97	1228807	100.0	103.8	
54 Carbon tetrachloride	117	4.601	4.595	0.006	99	1144078	100.0	107.5	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	4.730	4.733	-0.003	81	86847	50.0	49.6	
55 Isobutyl alcohol	41	4.710	4.739	-0.029	95	1259148	1250.0	1248.8	
57 Benzene	78	4.800	4.797	0.003	97	3568284	100.0	103.2	
58 1,2-Dichloroethane	62	4.813	4.807	0.006	57	1089238	100.0	102.3	
60 Tert-amyl methyl ether	73	4.919	4.919	0.000	98	2813852	100.0	103.9	
* 61 Fluorobenzene (IS)	96	5.079	5.076	0.003	99	1410907	50.0	50.0	
62 n-Heptane	43	5.086	5.083	0.003	94	1119483	100.0	103.9	
63 n-Butanol	56	5.381	5.394	-0.013	89	1102678	1250.0	1265.6	
64 Trichloroethene	95	5.452	5.449	0.003	98	876483	100.0	104.5	
65 Methylcyclohexane	83	5.660	5.664	-0.004	93	1550749	100.0	108.5	
66 1,2-Dichloropropane	63	5.676	5.683	-0.007	97	947390	100.0	103.9	
67 2-ethoxy-2-methyl butane	87	5.728	5.725	0.003	92	1300434	100.0	105.2	
68 Dibromomethane	93	5.798	5.795	0.003	97	538723	100.0	100.4	
69 Methyl methacrylate	69	5.811	5.814	-0.003	93	896153	100.0	101.7	
70 1,4-Dioxane	88	5.830	5.818	0.012	59	260864	1250.0	1273.3	
72 Dichlorobromomethane	83	5.968	5.968	0.000	100	1036026	100.0	103.2	
S 73 1,2-Dichloroethene, Total	100				0			203.0	
74 2-Nitropropane	41	6.209	6.206	0.003	97	2136952	500.0	506.0	
75 2-Chloroethyl vinyl ether	63	6.296	6.296	0.000	91	708014	100.0	106.1	
77 cis-1,3-Dichloropropene	75	6.450	6.447	0.003	95	1417036	100.0	107.6	
78 4-Methyl-2-pentanone (MIBK)	43	6.626	6.626	0.000	97	2704642	200.0	157.8	
$ 79 Toluene-d8 (Surr)	98	6.742	6.739	0.003	93	1458469	50.0	49.6	
80 Toluene	92	6.812	6.812	0.000	98	2205962	100.0	103.4	
81 trans-1,3-Dichloropropene	75	7.053	7.056	-0.003	94	1286321	100.0	103.4	
83 Ethyl methacrylate	69	7.175	7.175	0.000	91	1496202	100.0	104.6	
84 1,1,2-Trichloroethane	97	7.252	7.252	0.000	91	759521	100.0	95.9	
86 Tetrachloroethene	166	7.399	7.400	-0.001	98	858650	100.0	105.2	
87 1,3-Dichloropropane	76	7.422	7.422	0.000	94	1348554	100.0	101.7	
90 2-Hexanone	43	7.521	7.525	-0.004	97	1904313	200.0	157.7	
91 Chlorodibromomethane	129	7.647	7.647	0.000	91	791788	100.0	105.5	
93 Ethylene Dibromide	107	7.752	7.749	0.003	98	827799	100.0	104.8	
* 94 Chlorobenzene-d5 (IS)	117	8.195	8.195	0.000	88	1109987	50.0	50.0	
95 1-Chlorohexane	91	8.215	8.215	0.000	94	1147181	100.0	99.7	
96 Chlorobenzene	112	8.218	8.218	0.000	94	2208696	100.0	101.8	
97 1,1,1,2-Tetrachloroethane	131	8.298	8.298	0.000	96	852100	100.0	104.5	
98 Ethylbenzene	91	8.327	8.324	0.003	98	4162396	100.0	103.4	
99 m-Xylene & p-Xylene	106	8.430	8.430	0.000	99	3144185	200.0	208.0	
100 o-Xylene	106	8.770	8.767	0.003	96	1649104	100.0	103.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
101 Styrene	104	8.779	8.779	0.000	95	2622321	100.0	105.8	
102 Bromoform	173	8.921	8.921	-0.001	96	609968	100.0	108.7	
103 Isopropylbenzene	105	9.075	9.075	0.000	96	4169189	100.0	104.4	
105 Cyclohexanone	55	9.139	9.142	-0.003	93	1139175	1250.1	1244.4	
$ 106 4-Bromofluorobenzene (Surr)	95	9.190	9.187	0.003	87	578485	50.0	50.5	
107 Bromobenzene	156	9.306	9.306	0.000	95	913000	100.0	103.7	
108 1,1,2,2-Tetrachloroethane	83	9.306	9.309	-0.003	93	1471260	100.0	99.9	
109 1,2,3-Trichloropropane	110	9.338	9.338	0.000	84	407676	100.0	96.5	
110 trans-1,4-Dichloro-2-butene	53	9.351	9.351	-0.001	95	1146042	250.0	253.6	
111 N-Propylbenzene	91	9.399	9.399	0.000	99	4650145	100.0	104.3	
112 2-Chlorotoluene	126	9.460	9.460	0.000	96	940925	100.0	104.0	
113 1,3,5-Trimethylbenzene	105	9.533	9.534	-0.001	95	3421018	100.0	104.9	
114 4-Chlorotoluene	126	9.543	9.543	0.000	99	896061	100.0	101.0	
116 tert-Butylbenzene	134	9.780	9.781	-0.001	94	649672	100.0	108.4	
118 1,2,4-Trimethylbenzene	105	9.813	9.813	0.000	98	3470104	100.0	103.8	
119 sec-Butylbenzene	105	9.941	9.941	0.000	94	3964066	100.0	105.7	
141 1,3-Dichlorobenzene	146	10.015	10.018	-0.003	98	1669725	100.0	101.0	
143 4-Isopropyltoluene	119	10.047	10.047	0.000	97	3379732	100.0	106.0	
S 142 1,3-Dichloropropene, Total	100				0			211.0	
* 144 1,4-Dichlorobenzene-d4	152	10.063	10.066	-0.003	95	605880	50.0	50.0	
145 1,4-Dichlorobenzene	146	10.082	10.082	0.000	94	1717046	100.0	99.5	
146 1,2,3-Trimethylbenzene	105	10.121	10.121	0.000	99	3626370	100.0	104.9	
147 Benzyl chloride	91	10.178	10.179	-0.001	99	2974702	100.0	103.2	
148 1,3-Diethylbenzene	119	10.262	10.259	0.003	96	2037736	100.0	106.1	
149 p-Diethylbenzene	119	10.320	10.320	0.000	95	2040889	100.0	105.1	
150 n-Butylbenzene	92	10.339	10.336	0.003	98	1674299	100.0	105.2	
151 1,2-Dichlorobenzene	146	10.348	10.345	0.003	97	1747965	100.0	103.0	
152 o-diethylbenzene	119	10.403	10.403	0.000	96	1712479	100.0	106.4	
153 1,2-Dibromo-3-Chloropropane	75	10.884	10.881	0.003	85	412844	100.0	99.9	
154 1,3,5-Trichlorobenzene	180	11.029	11.029	0.000	98	1172976	100.0	102.5	
S 155 Xylenes, Total	106				0			311.5	
156 1,2,4-Trichlorobenzene	180	11.436	11.440	-0.004	94	1172869	100.0	103.0	
157 Hexachlorobutadiene	225	11.549	11.549	0.000	97	424132	100.0	107.2	
158 Naphthalene	128	11.600	11.600	0.000	98	4959099	100.0	99.0	
159 1,2,3-Trichlorobenzene	180	11.757	11.757	0.000	95	1219697	100.0	102.7	
160 2-Methylnaphthalene	142	12.322	12.322	0.000	92	2793126	100.0	102.2	
S 172 Total Diethylbenzene	1				0			317.6	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_CCV_VOC#1_00094	Amount Added:	5.00	Units: uL	
MSV_CCV_CYC_00004	Amount Added:	10.00	Units: uL	
MSV_CCV_VOC#3_00094	Amount Added:	4.00	Units: uL	
MSV_CCV_2CEVE_00090	Amount Added:	5.00	Units: uL	
MSV_CCV_ETOH_00003	Amount Added:	10.00	Units: uL	
MSV_CCV_GASES_00292	Amount Added:	2.50	Units: uL	
MSV_Cent_ISSS_00013	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 29-Oct-2022 01:14:42 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X11.D

Injection Date: 27-Oct-2022 16:07:30 Instrument ID: 9137 Operator ID: lcp00895

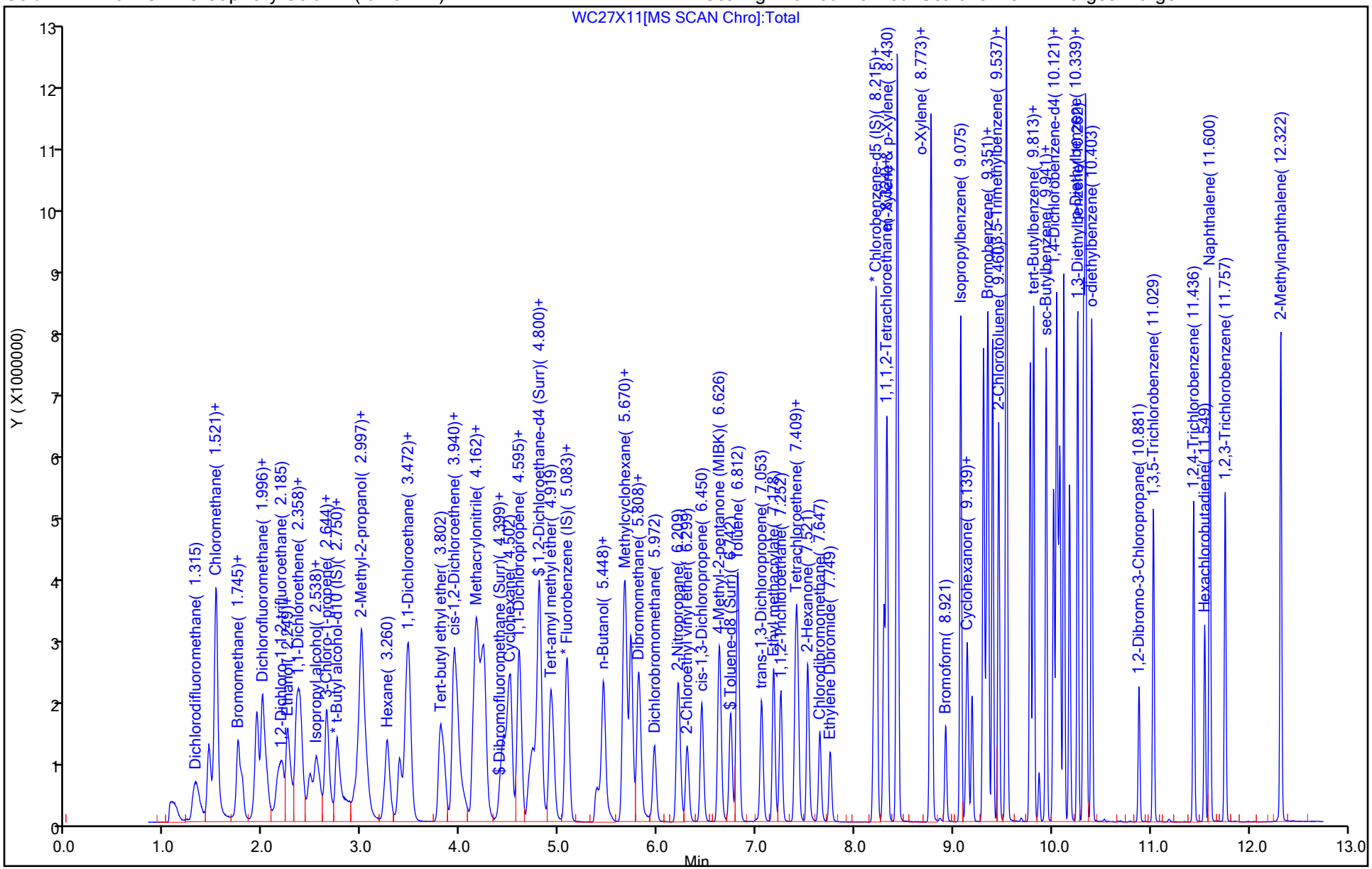
Lims ID: IC v100 Worklist Smp#: 12

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 11

Method: MSVoa_9137 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

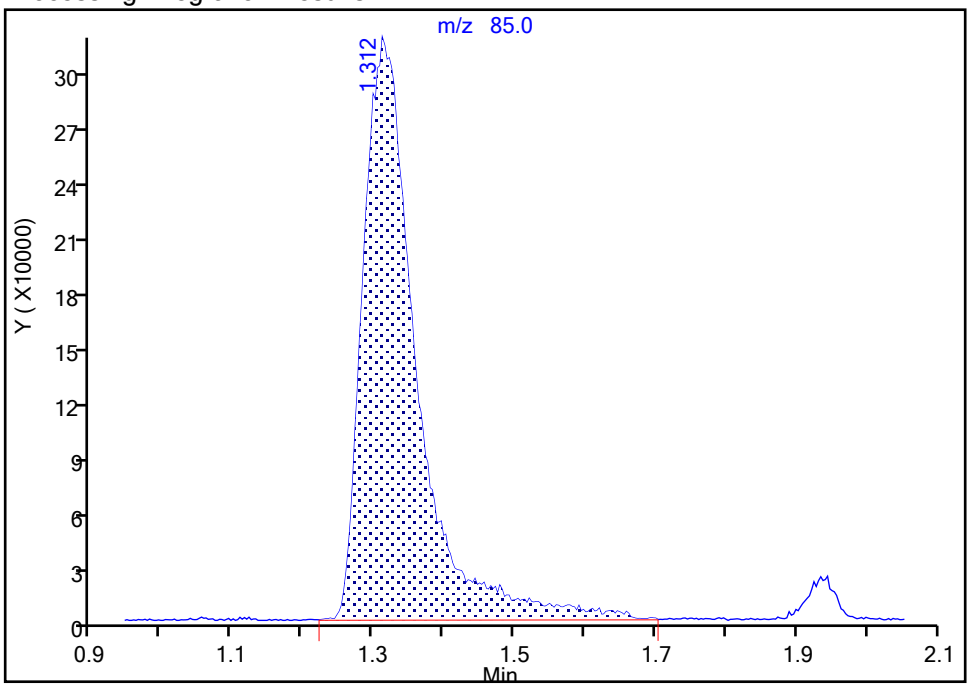
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X11.D
Injection Date: 27-Oct-2022 16:07:30 Instrument ID: 9137
Lims ID: IC v100
Client ID:
Operator ID: lcp00895 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

5 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

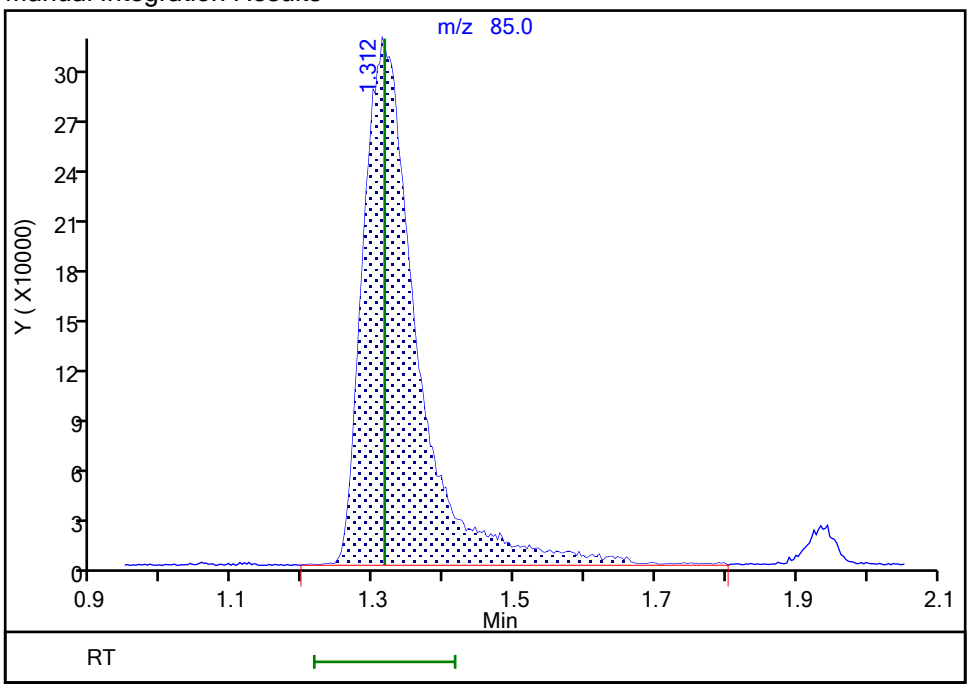
Processing Integration Results

RT: 1.31
Area: 1672208
Amount: 101.7339
Amount Units: ug/l



Manual Integration Results

RT: 1.31
Area: 1682704
Amount: 93.465610
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:37:22
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

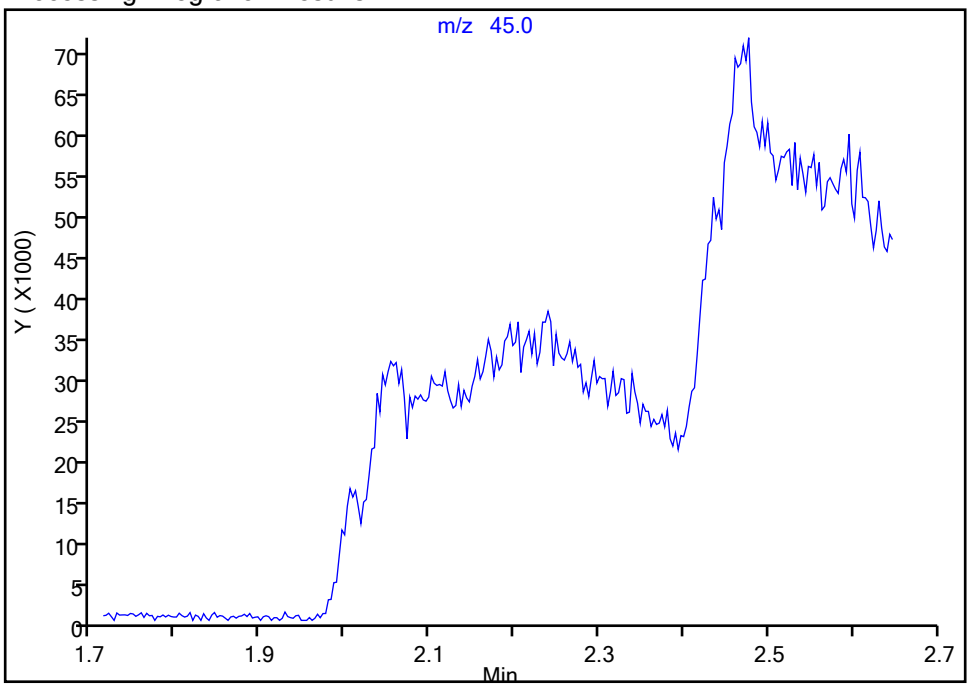
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X11.D
Injection Date: 27-Oct-2022 16:07:30 Instrument ID: 9137
Lims ID: IC v100
Client ID:
Operator ID: lcp00895 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

16 Ethanol, CAS: 64-17-5

Signal: 1

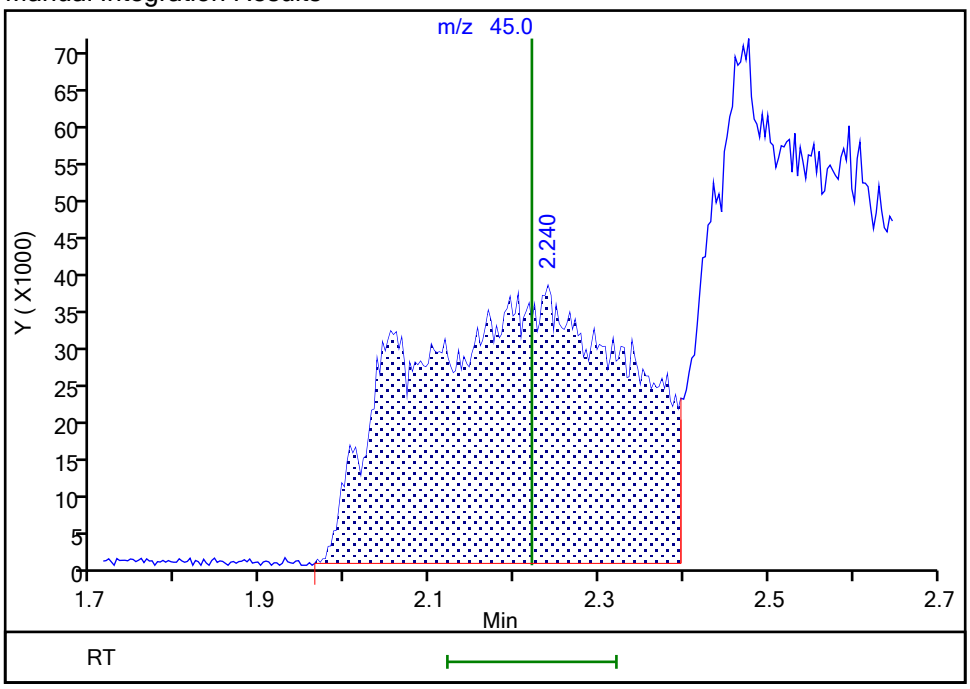
Not Detected
Expected RT: 2.22

Processing Integration Results



Manual Integration Results

RT: 2.24
Area: 680826
Amount: 2387.6120
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:37:27
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

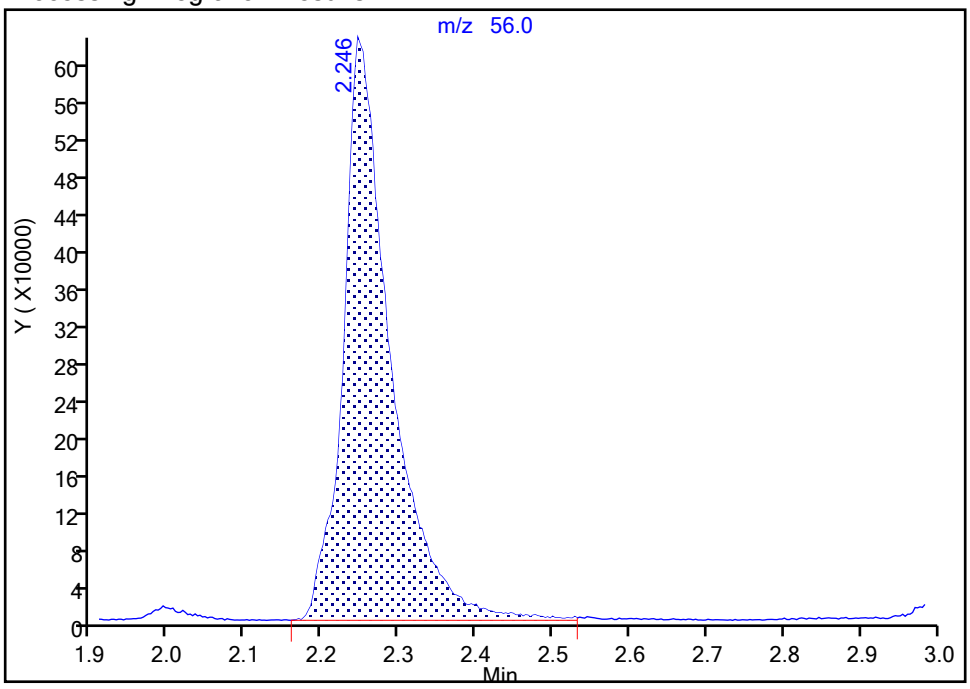
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X11.D
Injection Date: 27-Oct-2022 16:07:30 Instrument ID: 9137
Lims ID: IC v100
Client ID:
Operator ID: lcp00895 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

18 Acrolein, CAS: 107-02-8

Signal: 1

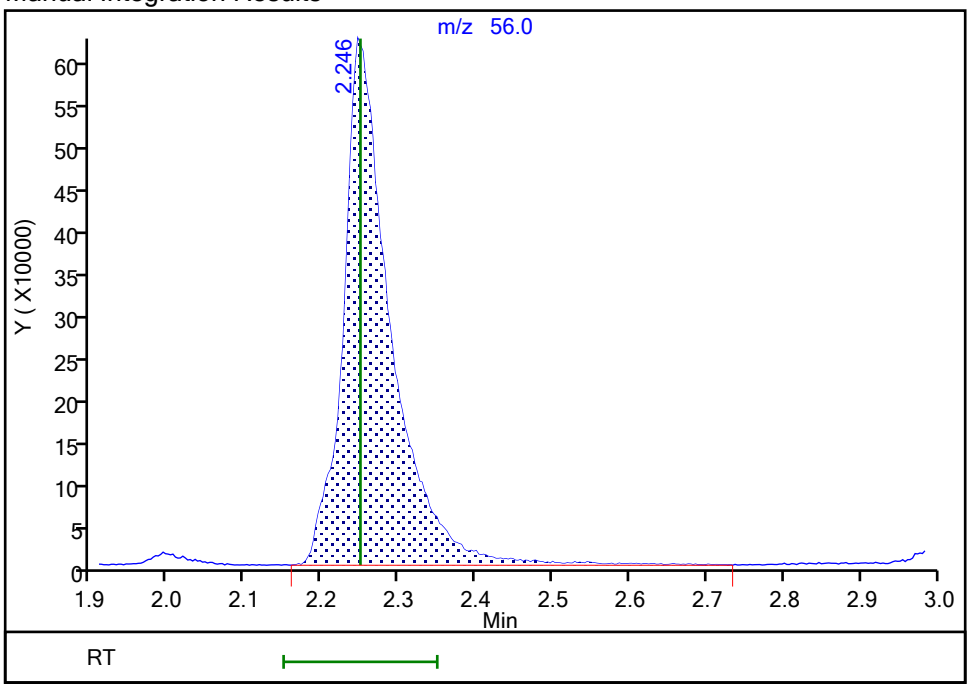
Processing Integration Results

RT: 2.25
Area: 2649860
Amount: 707.0416
Amount Units: ug/l



Manual Integration Results

RT: 2.25
Area: 2668722
Amount: 764.5069
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:55:10
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

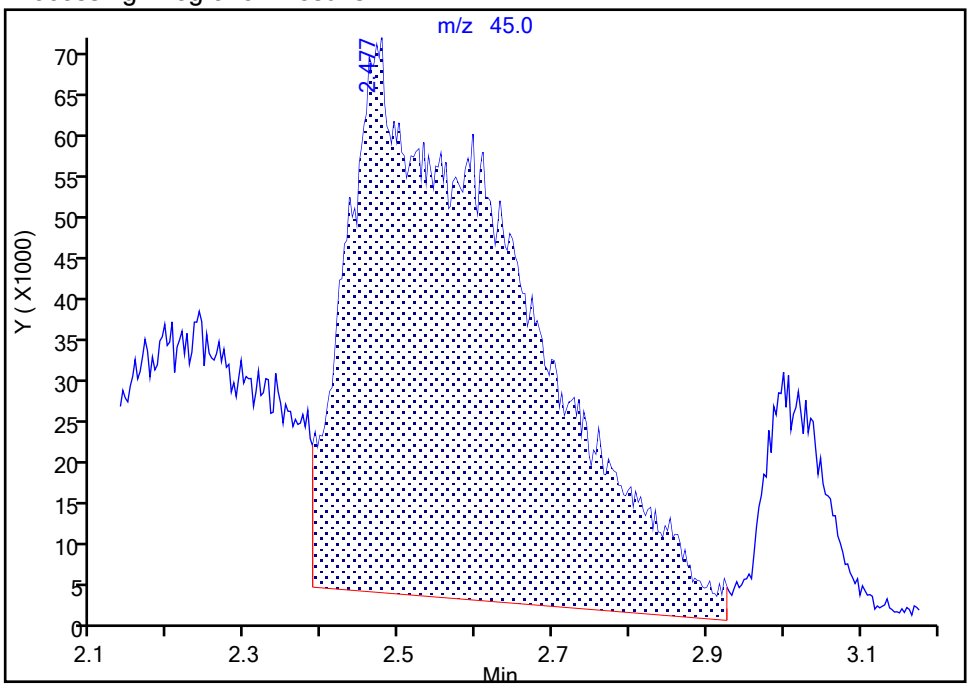
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X11.D
Injection Date: 27-Oct-2022 16:07:30 Instrument ID: 9137
Lims ID: IC v100
Client ID:
Operator ID: lcp00895 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

23 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

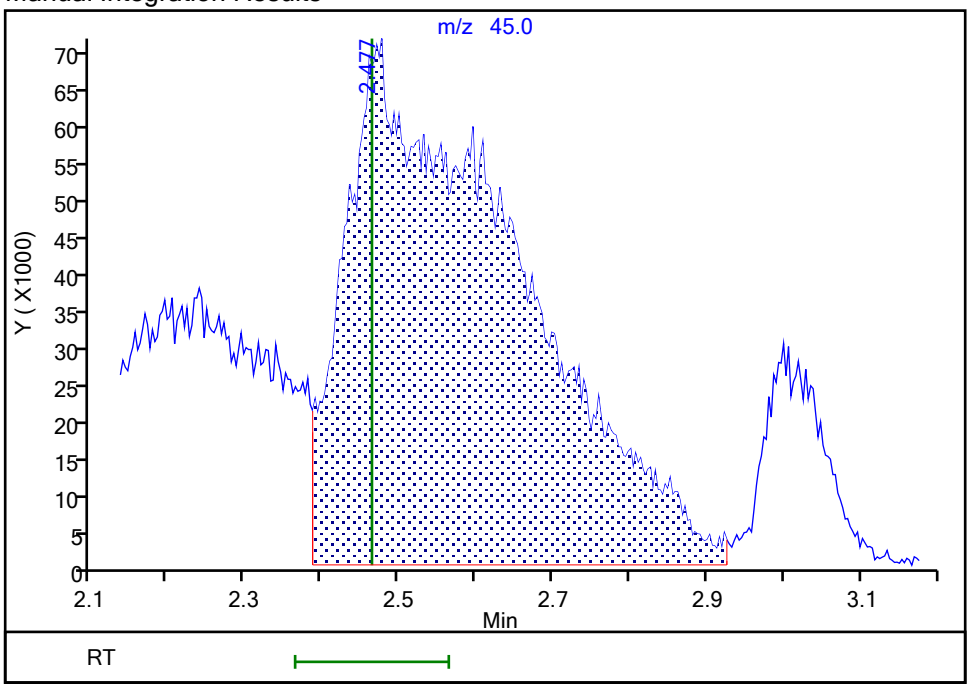
Processing Integration Results

RT: 2.48
Area: 1058880
Amount: 721.5836
Amount Units: ug/l



Manual Integration Results

RT: 2.48
Area: 1102986
Amount: 521.6729
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:37:58
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X12.D
Lims ID: ICIS v50
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 27-Oct-2022 16:27:30 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0069757-013
Misc. Info.: ICIS V50
Operator ID: lcp00895 Instrument ID: 9137
Sublist: chrom-MSVoa_9137*sub28

Method: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 29-Oct-2022 01:14:47 Calib Date: 27-Oct-2022 17:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1618

First Level Reviewer: K4WN Date: 29-Oct-2022 00:40:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 Dichlorodifluoromethane	85	1.316	1.316	0.000	99	820919	50.0	46.2	M
6 Chloromethane	50	1.447	1.447	0.000	100	930603	50.0	50.4	
7 Vinyl chloride	62	1.514	1.514	0.000	93	876213	50.0	49.9	
8 Butadiene	39	1.521	1.521	0.000	92	828906	50.0	47.1	
10 Bromomethane	94	1.746	1.746	0.000	91	493663	50.0	48.9	
11 Chloroethane	64	1.781	1.781	0.000	99	430107	50.0	49.1	
12 Dichlorofluoromethane	67	1.935	1.935	0.000	97	990279	50.0	49.0	
13 Pentane	43	1.986	1.986	0.000	97	725550	50.0	48.9	
14 Trichlorofluoromethane	101	1.993	1.993	0.000	76	877853	50.0	50.2	
17 1,2-Dichloro-1,1,2-trifluoroetha	67	2.172	2.172	0.000	96	539492	50.0	45.3	
16 Ethanol	45	2.220	2.220	0.000	39	360529	1250.0	1284.2	a
18 Acrolein	56	2.249	2.249	0.000	100	1792076	500.0	521.4	
19 1,1-Dichloroethene	96	2.339	2.339	0.000	98	393335	50.0	49.5	
20 Acetone	58	2.368	2.368	0.000	87	187723	100.0	97.8	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.374	2.374	0.000	93	448815	50.0	53.0	
23 Isopropyl alcohol	45	2.464	2.464	0.000	39	509694	250.0	244.9	M
22 Iodomethane	142	2.468	2.468	0.000	98	619840	50.0	51.3	
24 Carbon disulfide	76	2.538	2.538	0.000	99	1238460	50.0	51.6	
25 3-Chloro-1-propene	41	2.641	2.641	0.000	92	722239	50.0	51.1	
27 Methyl acetate	43	2.654	2.654	0.000	99	583190	50.0	50.5	
28 Methylene Chloride	84	2.744	2.744	0.000	95	432882	50.0	48.7	
* 29 t-Butyl alcohol-d10 (IS)	65	2.849	2.849	0.000	83	746464	250.0	250.0	
30 2-Methyl-2-propanol	59	2.907	2.907	0.000	98	873513	250.0	254.8	
31 Acrylonitrile	53	2.965	2.965	0.000	100	770888	125.0	125.4	
33 trans-1,2-Dichloroethene	96	2.994	2.994	0.000	98	403884	50.0	50.9	
32 Methyl tert-butyl ether	73	3.000	3.000	0.000	97	1389284	50.0	50.7	
34 Hexane	57	3.251	3.251	0.000	93	573793	50.0	49.5	
35 1,1-Dichloroethane	63	3.382	3.382	0.000	97	747824	50.0	51.1	
37 Isopropyl ether	45	3.453	3.453	0.000	95	1493472	50.0	50.9	
38 2-Chloro-1,3-butadiene	53	3.472	3.472	0.000	93	682901	50.0	50.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Tert-butyl ethyl ether	59	3.793	3.793	0.000	98	1418797	50.0	51.0	
40 cis-1,2-Dichloroethene	96	3.931	3.931	0.000	84	434017	50.0	50.3	
42 2,2-Dichloropropane	77	3.950	3.950	0.000	77	720637	50.0	49.6	
41 2-Butanone (MEK)	43	3.950	3.950	0.000	98	891970	100.0	101.5	
44 Propionitrile	54	4.011	4.011	0.000	99	719432	250.0	246.6	
45 Methacrylonitrile	67	4.146	4.146	0.000	92	708607	125.0	126.7	
46 Chlorobromomethane	128	4.168	4.168	0.000	98	199031	50.0	49.6	
47 Tetrahydrofuran	71	4.213	4.213	0.000	90	546635	250.0	241.6	
48 Chloroform	83	4.245	4.245	0.000	95	677874	50.0	49.6	
$ 50 Dibromofluoromethane (Surr)	113	4.403	4.403	0.000	93	322484	50.0	50.0	
51 1,1,1-Trichloroethane	97	4.438	4.438	0.000	93	681355	50.0	50.4	
52 Cyclohexane	56	4.499	4.499	0.000	93	913036	50.0	51.5	
53 1,1-Dichloropropene	75	4.589	4.589	0.000	95	592671	50.0	50.7	
54 Carbon tetrachloride	117	4.595	4.595	0.000	97	546455	50.0	52.1	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	4.733	4.733	0.000	94	87397	50.0	50.6	
55 Isobutyl alcohol	41	4.739	4.739	0.000	95	611993	625.0	616.5	
57 Benzene	78	4.797	4.797	0.000	97	1746274	50.0	51.2	
58 1,2-Dichloroethane	62	4.807	4.807	0.000	96	534907	50.0	50.9	
60 Tert-amyl methyl ether	73	4.919	4.919	0.000	98	1368403	50.0	51.2	
* 61 Fluorobenzene (IS)	96	5.073	5.073	0.000	97	1392317	50.0	50.0	
62 n-Heptane	43	5.083	5.083	0.000	70	547201	50.0	51.5	
63 n-Butanol	56	5.394	5.394	0.000	89	552036	625.0	643.6	
64 Trichloroethene	95	5.449	5.449	0.000	98	424990	50.0	51.3	
65 Methylcyclohexane	83	5.664	5.664	0.000	93	737751	50.0	52.3	
66 1,2-Dichloropropane	63	5.683	5.683	0.000	97	459227	50.0	51.1	
67 2-ethoxy-2-methyl butane	87	5.725	5.725	0.000	91	618884	50.0	50.7	
68 Dibromomethane	93	5.795	5.795	0.000	97	268025	50.0	50.6	
69 Methyl methacrylate	69	5.814	5.814	0.000	94	443105	50.0	51.0	
70 1,4-Dioxane	88	5.818	5.818	0.000	32	134681	625.0	667.7	
72 Dichlorobromomethane	83	5.968	5.968	0.000	99	499996	50.0	50.5	
74 2-Nitropropane	41	6.206	6.206	0.000	97	1020702	250.0	245.5	
75 2-Chloroethyl vinyl ether	63	6.296	6.296	0.000	90	354964	50.0	53.9	
77 cis-1,3-Dichloropropene	75	6.447	6.447	0.000	96	681750	50.0	52.4	
78 4-Methyl-2-pentanone (MIBK)	43	6.626	6.626	0.000	97	1831210	100.0	108.2	
$ 79 Toluene-d8 (Surr)	98	6.739	6.739	0.000	93	1408544	50.0	49.8	
80 Toluene	92	6.812	6.812	0.000	98	1053635	50.0	51.3	
81 trans-1,3-Dichloropropene	75	7.056	7.056	0.000	95	612673	50.0	51.1	
83 Ethyl methacrylate	69	7.175	7.175	0.000	92	734796	50.0	53.3	
84 1,1,2-Trichloroethane	97	7.252	7.252	0.000	90	370758	50.0	48.6	
86 Tetrachloroethene	166	7.400	7.400	0.000	97	409481	50.0	52.1	
87 1,3-Dichloropropane	76	7.422	7.422	0.000	93	651709	50.0	51.0	
90 2-Hexanone	43	7.525	7.525	0.000	97	1267704	100.0	109.0	
91 Chlorodibromomethane	129	7.647	7.647	0.000	90	370265	50.0	51.2	
93 Ethylene Dibromide	107	7.749	7.749	0.000	97	397744	50.0	52.3	
* 94 Chlorobenzene-d5 (IS)	117	8.192	8.192	0.000	87	1069167	50.0	50.0	
95 1-Chlorohexane	91	8.215	8.215	0.000	96	544314	50.0	49.1	
96 Chlorobenzene	112	8.218	8.218	0.000	94	1057331	50.0	50.6	
97 1,1,1,2-Tetrachloroethane	131	8.298	8.298	0.000	96	404176	50.0	51.5	
98 Ethylbenzene	91	8.324	8.324	0.000	98	2023739	50.0	52.2	
99 m-Xylene & p-Xylene	106	8.430	8.430	0.000	99	1517465	100.0	104.2	
100 o-Xylene	106	8.767	8.767	0.000	97	781165	50.0	50.9	
101 Styrene	104	8.779	8.779	0.000	95	1261068	50.0	52.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
102 Bromoform	173	8.921	8.921	0.000	97	290913	50.0	53.8	
103 Isopropylbenzene	105	9.075	9.075	0.000	96	2033265	50.0	52.9	
105 Cyclohexanone	55	9.142	9.142	0.000	94	624328	625.0	692.7	
$ 106 4-Bromofluorobenzene (Surr)	95	9.187	9.187	0.000	88	544213	50.0	49.4	
107 Bromobenzene	156	9.306	9.306	0.000	95	432721	50.0	51.6	
108 1,1,2,2-Tetrachloroethane	83	9.309	9.309	0.000	94	719087	50.0	51.3	
109 1,2,3-Trichloropropane	110	9.338	9.338	0.000	84	201533	50.0	50.1	
110 trans-1,4-Dichloro-2-butene	53	9.351	9.351	0.000	96	551079	125.0	128.1	
111 N-Propylbenzene	91	9.399	9.399	0.000	99	2268708	50.0	53.5	
112 2-Chlorotoluene	126	9.460	9.460	0.000	96	442679	50.0	51.4	
113 1,3,5-Trimethylbenzene	105	9.534	9.534	0.000	95	1648496	50.0	53.1	
114 4-Chlorotoluene	126	9.543	9.543	0.000	99	429925	50.0	50.9	
116 tert-Butylbenzene	134	9.781	9.781	0.000	94	310343	50.0	54.4	
118 1,2,4-Trimethylbenzene	105	9.813	9.813	0.000	98	1682572	50.0	52.8	
119 sec-Butylbenzene	105	9.941	9.941	0.000	94	1916287	50.0	53.7	
141 1,3-Dichlorobenzene	146	10.018	10.018	0.000	98	805329	50.0	51.2	
143 4-Isopropyltoluene	119	10.047	10.047	0.000	97	1632249	50.0	53.8	
* 144 1,4-Dichlorobenzene-d4	152	10.063	10.063	0.000	97	576823	50.0	50.0	
145 1,4-Dichlorobenzene	146	10.082	10.082	0.000	95	831765	50.0	50.6	
146 1,2,3-Trimethylbenzene	105	10.121	10.121	0.000	99	1754239	50.0	53.3	
147 Benzyl chloride	91	10.179	10.179	0.000	99	1449263	50.0	52.8	
148 1,3-Diethylbenzene	119	10.259	10.259	0.000	95	977973	50.0	53.5	a
149 p-Diethylbenzene	119	10.320	10.320	0.000	95	982712	50.0	53.2	
150 n-Butylbenzene	92	10.336	10.336	0.000	98	816271	50.0	53.9	
151 1,2-Dichlorobenzene	146	10.345	10.345	0.000	97	845336	50.0	52.3	
152 o-diethylbenzene	119	10.403	10.403	0.000	96	811501	50.0	52.9	
153 1,2-Dibromo-3-Chloropropane	75	10.881	10.881	0.000	84	198700	50.0	50.5	
154 1,3,5-Trichlorobenzene	180	11.029	11.029	0.000	97	567341	50.0	52.1	
156 1,2,4-Trichlorobenzene	180	11.440	11.440	0.000	94	571707	50.0	52.8	
157 Hexachlorobutadiene	225	11.549	11.549	0.000	97	210437	50.0	55.9	
158 Naphthalene	128	11.600	11.600	0.000	97	2485699	50.0	52.1	
159 1,2,3-Trichlorobenzene	180	11.757	11.757	0.000	95	596085	50.0	52.7	
160 2-Methylnaphthalene	142	12.322	12.322	0.000	94	1381609	50.0	53.1	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_CCV_VOC#1_00094	Amount Added:	5.00	Units: uL	
MSV_CCV_CYC_00004	Amount Added:	10.00	Units: uL	
MSV_CCV_VOC#3_00094	Amount Added:	4.00	Units: uL	
MSV_CCV_2CEVE_00090	Amount Added:	5.00	Units: uL	
MSV_CCV_ETOH_00003	Amount Added:	10.00	Units: uL	
MSV_CCV_GASES_00292	Amount Added:	2.50	Units: uL	
MSV_Cent_ISSS_00013	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 29-Oct-2022 01:14:47 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X12.D

Injection Date: 27-Oct-2022 16:27:30 Instrument ID: 9137 Operator ID: lcp00895

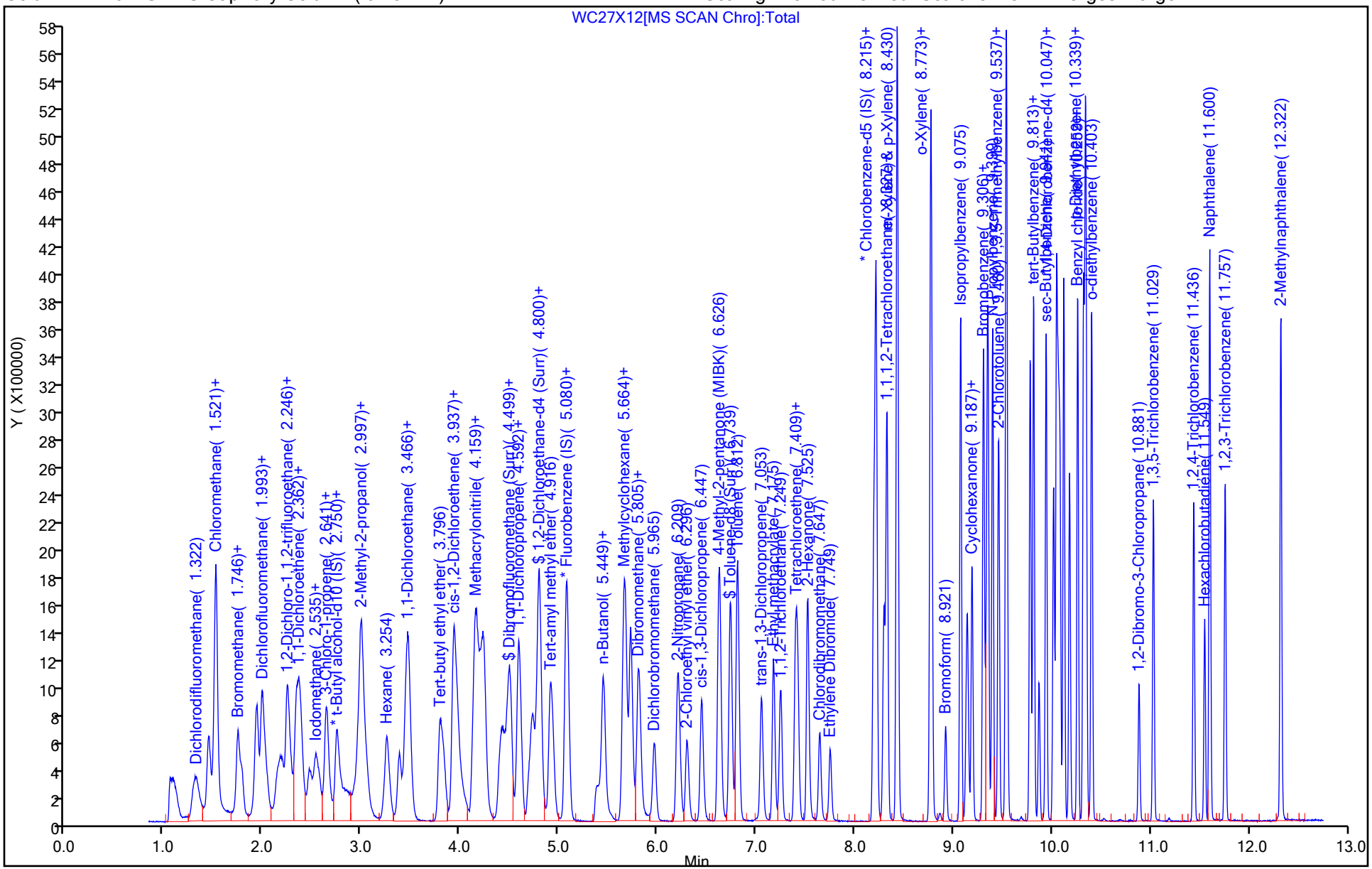
Lims ID: ICIS v50 Worklist Smp#: 13

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 12

Method: MSVoa_9137 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

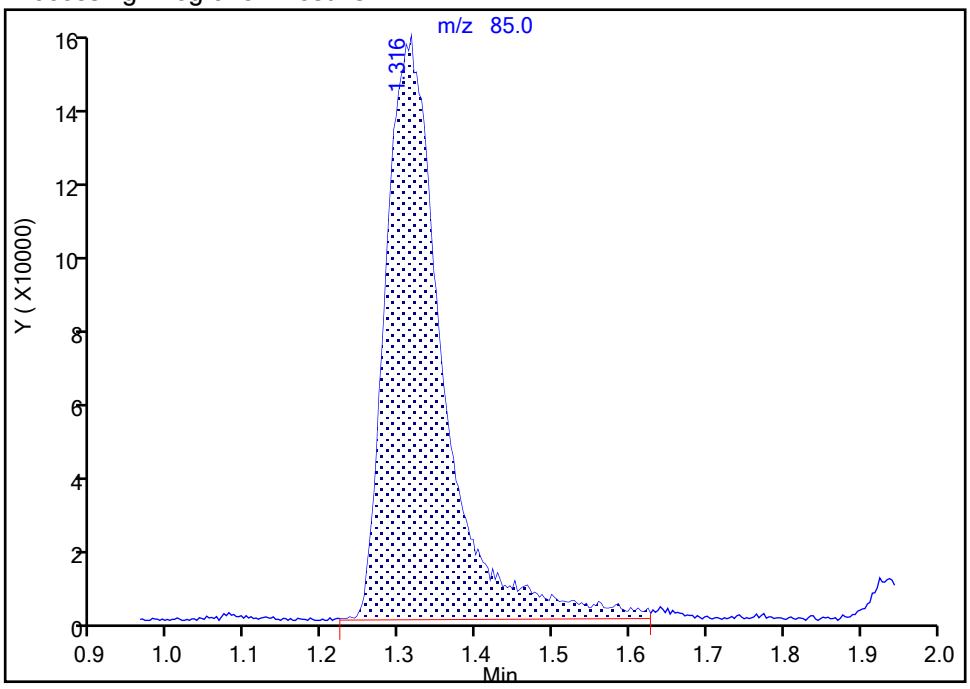
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X12.D
Injection Date: 27-Oct-2022 16:27:30 Instrument ID: 9137
Lims ID: ICIS v50
Client ID:
Operator ID: lcp00895 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

5 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

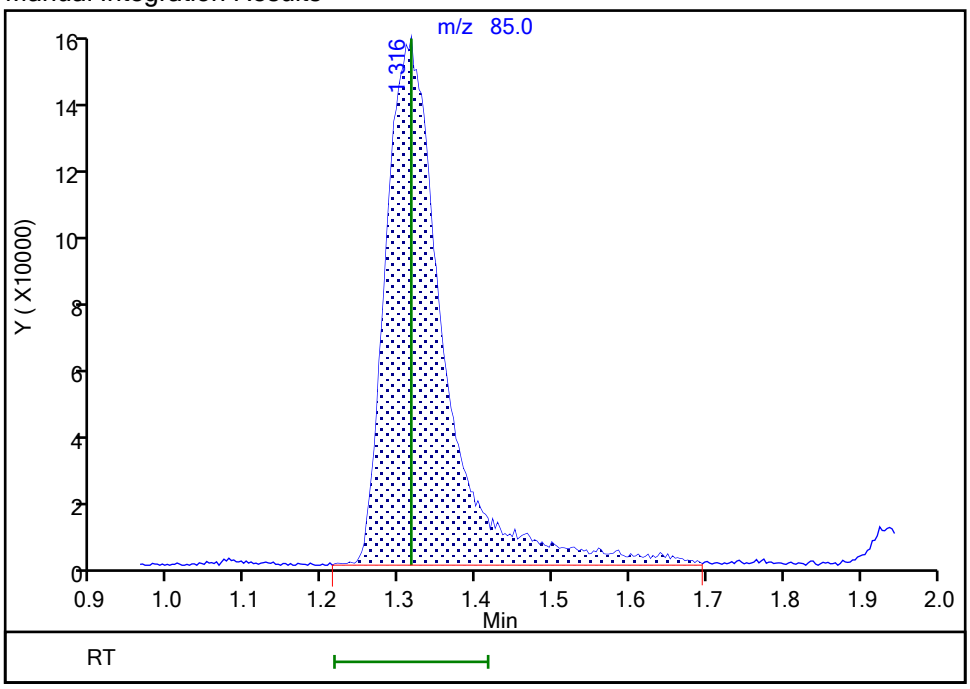
Processing Integration Results

RT: 1.32
Area: 807051
Amount: 49.732799
Amount Units: ug/l



Manual Integration Results

RT: 1.32
Area: 820919
Amount: 46.206672
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:39:01
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

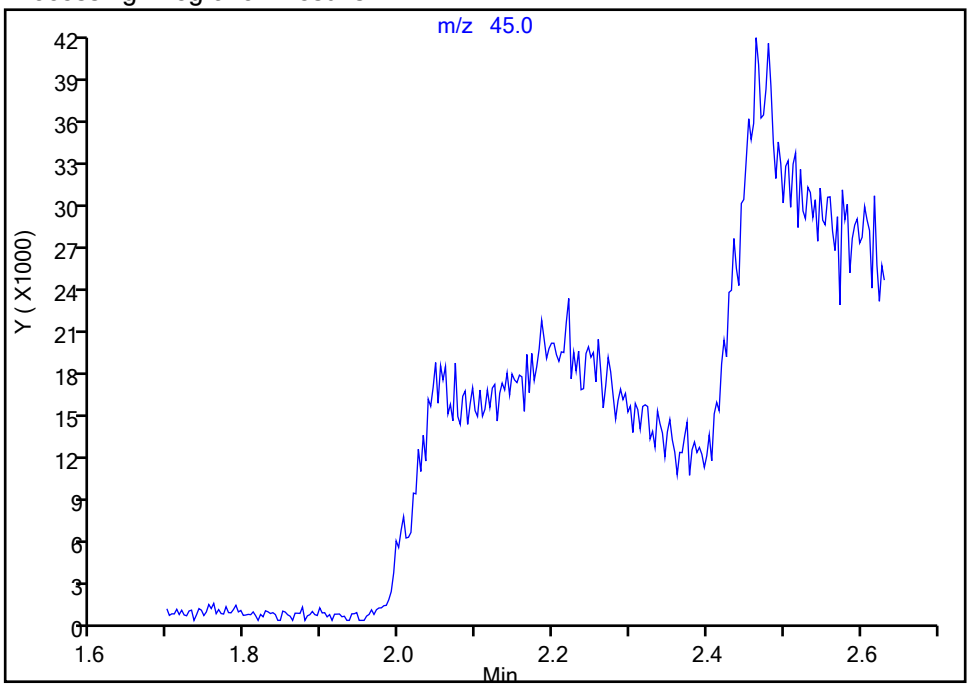
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X12.D
Injection Date: 27-Oct-2022 16:27:30 Instrument ID: 9137
Lims ID: ICIS v50
Client ID:
Operator ID: lcp00895 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

16 Ethanol, CAS: 64-17-5

Signal: 1

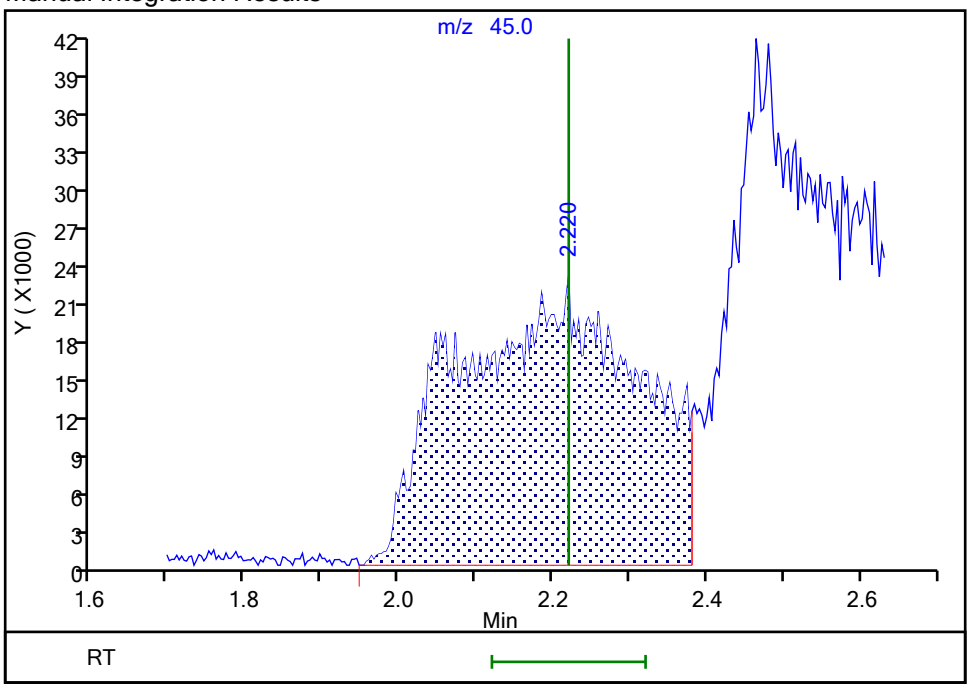
Not Detected
Expected RT: 2.22

Processing Integration Results



Manual Integration Results

RT: 2.22
Area: 360529
Amount: 1284.2010
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:39:07
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

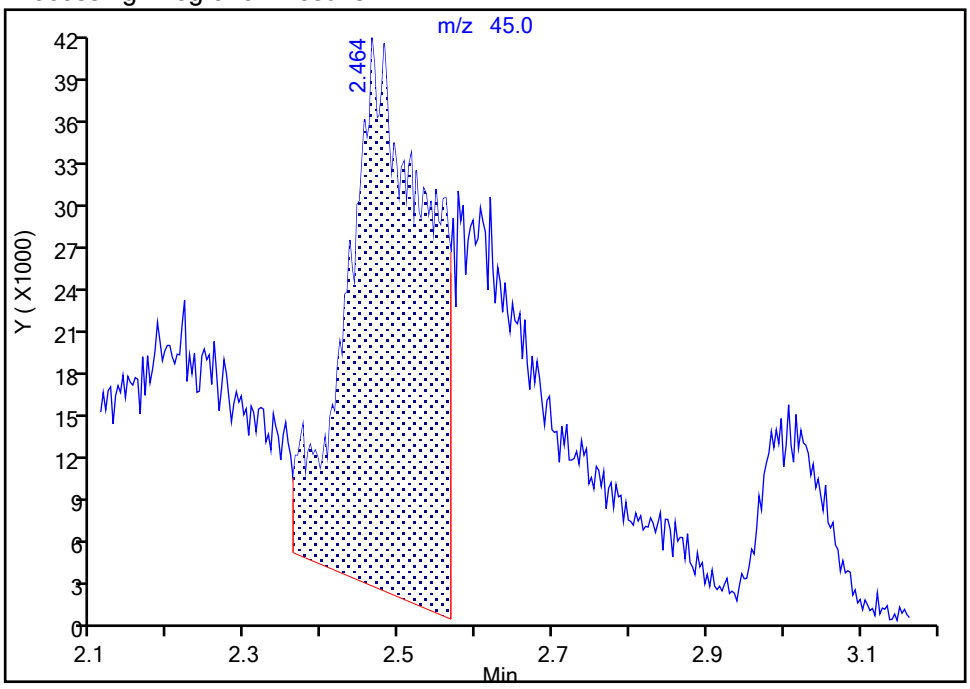
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X12.D
Injection Date: 27-Oct-2022 16:27:30 Instrument ID: 9137
Lims ID: ICIS v50
Client ID:
Operator ID: lcp00895 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

23 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

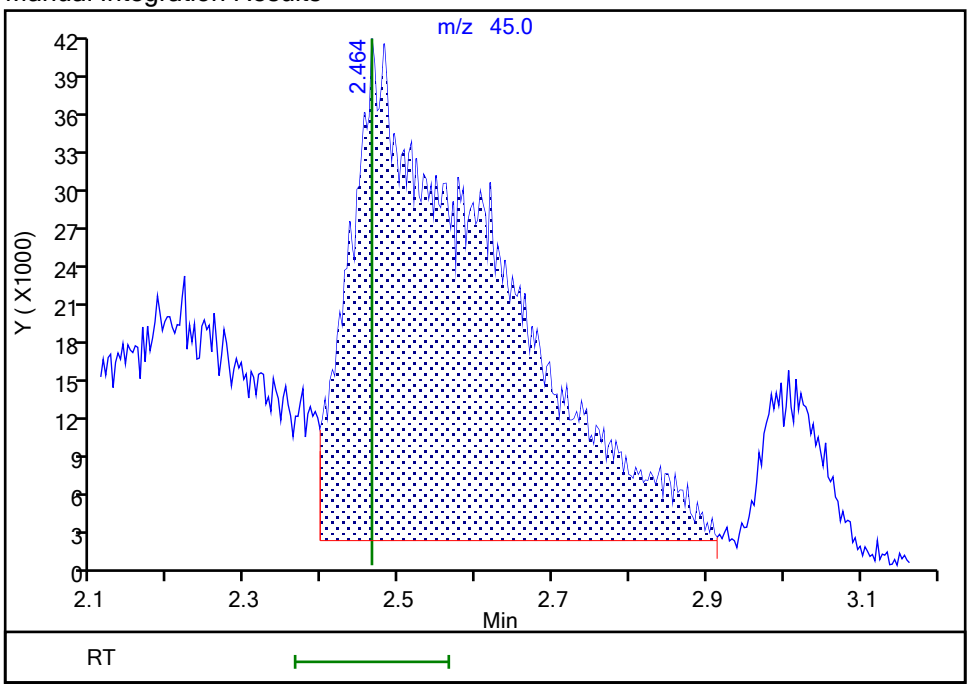
Processing Integration Results

RT: 2.46
Area: 285390
Amount: 195.9386
Amount Units: ug/l



Manual Integration Results

RT: 2.46
Area: 509694
Amount: 244.8516
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:39:37
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

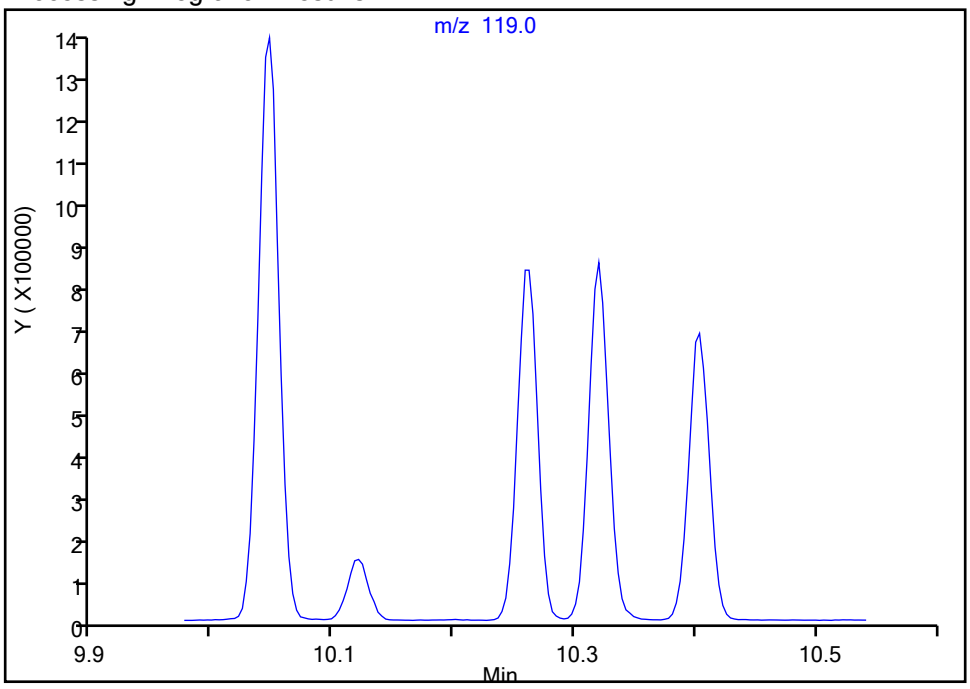
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X12.D
Injection Date: 27-Oct-2022 16:27:30 Instrument ID: 9137
Lims ID: ICIS v50
Client ID:
Operator ID: lcp00895 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

148 1,3-Diethylbenzene, CAS: 141-93-5

Signal: 1

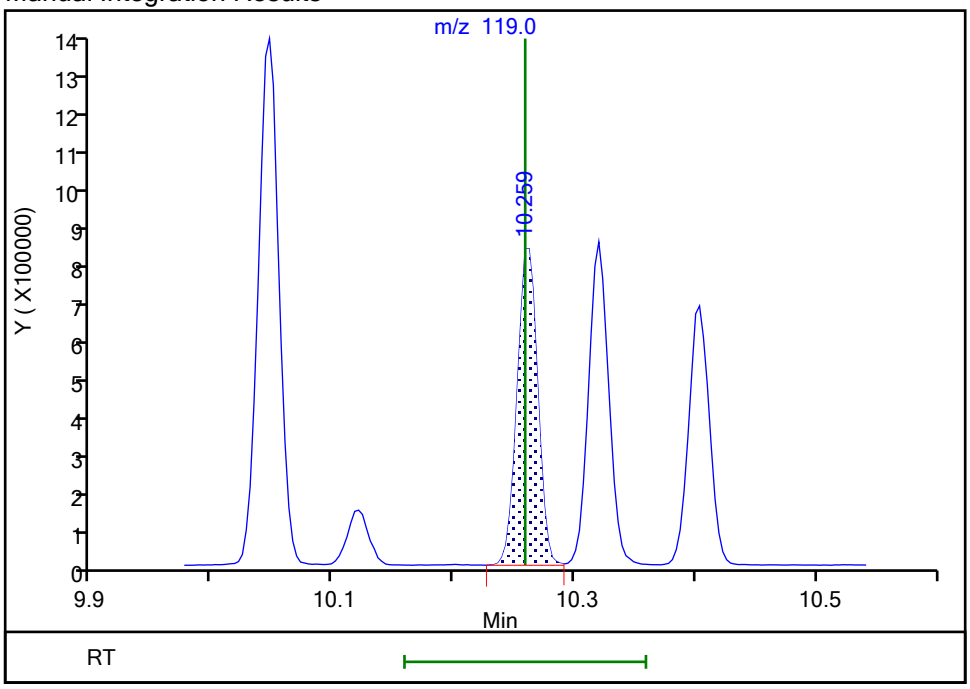
Not Detected
Expected RT: 10.26

Processing Integration Results



Manual Integration Results

RT: 10.26
Area: 977973
Amount: 53.495515
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:40:14
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X13.D
Lims ID: IC v20
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 27-Oct-2022 16:46:30 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0069757-014
Misc. Info.: IC V20
Operator ID: lcp00895 Instrument ID: 9137
Sublist: chrom-MSVoa_9137*sub28

Method: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 29-Oct-2022 01:14:52 Calib Date: 27-Oct-2022 17:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1618

First Level Reviewer: K4WN Date: 29-Oct-2022 00:42:11

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 Dichlorodifluoromethane	85	1.303	1.316	-0.013	97	323573	20.0	18.2	M
6 Chloromethane	50	1.437	1.447	-0.010	99	346149	20.0	18.7	
7 Vinyl chloride	62	1.515	1.514	0.000	89	346466	20.0	19.7	
8 Butadiene	39	1.515	1.521	-0.007	96	332369	20.0	18.9	
10 Bromomethane	94	1.736	1.746	-0.010	90	196531	20.0	19.5	
11 Chloroethane	64	1.778	1.781	-0.003	100	171054	20.0	19.5	
12 Dichlorofluoromethane	67	1.925	1.935	-0.010	98	391693	20.0	19.4	
13 Pentane	43	1.986	1.986	0.000	97	302574	20.0	20.4	
14 Trichlorofluoromethane	101	1.989	1.993	-0.004	75	341847	20.0	19.6	
17 1,2-Dichloro-1,1,2-trifluoroetha	67	2.172	2.172	0.000	95	223838	20.0	18.8	
16 Ethanol	45	2.188	2.220	-0.032	27	265630	1000.0	940.9	M
18 Acrolein	56	2.243	2.249	-0.006	99	719847	200.0	208.3	
19 1,1-Dichloroethene	96	2.333	2.339	-0.006	97	151395	20.0	19.1	
20 Acetone	58	2.368	2.368	0.000	91	84473	40.0	43.8	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.374	2.374	0.000	94	174962	20.0	20.7	
23 Isopropyl alcohol	45	2.464	2.464	0.000	41	409133	200.0	195.5	M
22 Iodomethane	142	2.461	2.468	-0.007	97	246657	20.0	20.4	
24 Carbon disulfide	76	2.538	2.538	0.000	99	490588	20.0	20.4	
25 3-Chloro-1-propene	41	2.634	2.641	-0.007	92	268636	20.0	19.0	
27 Methyl acetate	43	2.654	2.654	0.000	98	246044	20.0	21.3	
28 Methylene Chloride	84	2.744	2.744	0.000	95	175356	20.0	19.7	
* 29 t-Butyl alcohol-d10 (IS)	65	2.849	2.849	0.000	85	750620	250.0	250.0	
30 2-Methyl-2-propanol	59	2.920	2.907	0.013	97	692531	200.0	200.9	
31 Acrylonitrile	53	2.962	2.965	-0.003	99	308528	50.0	50.2	
33 trans-1,2-Dichloroethene	96	2.991	2.994	-0.003	97	159104	20.0	20.1	
32 Methyl tert-butyl ether	73	2.987	3.000	-0.013	96	547641	20.0	20.0	
34 Hexane	57	3.251	3.251	0.001	95	231030	20.0	19.9	
35 1,1-Dichloroethane	63	3.382	3.382	0.000	96	301312	20.0	20.6	
37 Isopropyl ether	45	3.453	3.453	0.000	97	595228	20.0	20.3	
38 2-Chloro-1,3-butadiene	53	3.466	3.472	-0.006	91	276005	20.0	20.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Tert-butyl ethyl ether	59	3.796	3.793	0.003	98	560543	20.0	20.2	
40 cis-1,2-Dichloroethene	96	3.931	3.931	0.000	86	173651	20.0	20.1	
42 2,2-Dichloropropane	77	3.953	3.950	0.003	86	287961	20.0	19.8	
41 2-Butanone (MEK)	43	3.947	3.950	-0.003	97	361873	40.0	41.2	
44 Propionitrile	54	3.998	4.011	-0.013	99	555237	200.0	189.2	
45 Methacrylonitrile	67	4.149	4.146	0.003	93	562961	100.0	100.8	
46 Chlorobromomethane	128	4.162	4.168	-0.006	94	79087	20.0	19.7	
47 Tetrahydrofuran	71	4.213	4.213	0.000	86	226588	100.0	99.6	
48 Chloroform	83	4.236	4.245	-0.009	93	272385	20.0	19.9	
$ 50 Dibromofluoromethane (Surr)	113	4.396	4.403	-0.006	93	326631	50.0	50.7	
51 1,1,1-Trichloroethane	97	4.435	4.438	-0.003	96	274126	20.0	20.3	
52 Cyclohexane	56	4.492	4.499	-0.007	94	366526	20.0	20.7	
53 1,1-Dichloropropene	75	4.589	4.589	0.000	94	236104	20.0	20.2	
54 Carbon tetrachloride	117	4.592	4.595	-0.003	89	213810	20.0	20.4	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	4.730	4.733	-0.003	96	84867	50.0	49.2	
55 Isobutyl alcohol	41	4.736	4.739	-0.003	89	505747	500.0	506.6	
57 Benzene	78	4.797	4.797	0.000	96	698188	20.0	20.5	
58 1,2-Dichloroethane	62	4.804	4.807	-0.003	57	208096	20.0	19.8	
60 Tert-amyl methyl ether	73	4.916	4.919	-0.003	98	540363	20.0	20.2	
* 61 Fluorobenzene (IS)	96	5.070	5.073	-0.003	98	1391350	50.0	50.0	
62 n-Heptane	43	5.080	5.083	-0.003	92	222833	20.0	21.0	
63 n-Butanol	56	5.378	5.394	-0.016	89	666328	750.0	772.5	
64 Trichloroethene	95	5.445	5.449	-0.004	99	164490	20.0	19.9	
65 Methylcyclohexane	83	5.657	5.664	-0.007	93	297023	20.0	21.1	
66 1,2-Dichloropropane	63	5.680	5.683	-0.003	97	181849	20.0	20.2	
67 2-ethoxy-2-methyl butane	87	5.725	5.725	0.000	90	243863	20.0	20.0	
68 Dibromomethane	93	5.798	5.795	0.003	96	102367	20.0	19.4	
69 Methyl methacrylate	69	5.808	5.814	-0.006	94	170874	20.0	19.7	
70 1,4-Dioxane	88	5.811	5.818	-0.007	49	108219	500.0	533.6	
72 Dichlorobromomethane	83	5.965	5.968	-0.003	98	197749	20.0	20.0	
S 73 1,2-Dichloroethene, Total	100				0			40.2	
74 2-Nitropropane	41	6.203	6.206	-0.003	98	400493	100.0	95.8	
75 2-Chloroethyl vinyl ether	63	6.302	6.296	0.006	91	133150	20.0	20.2	
77 cis-1,3-Dichloropropene	75	6.443	6.447	-0.004	95	261313	20.0	20.1	
78 4-Methyl-2-pentanone (MIBK)	43	6.623	6.626	-0.003	97	735226	40.0	43.5	
$ 79 Toluene-d8 (Surr)	98	6.739	6.739	0.000	93	1387248	50.0	50.3	
80 Toluene	92	6.812	6.812	0.000	97	417177	20.0	20.8	
81 trans-1,3-Dichloropropene	75	7.050	7.056	-0.006	94	238197	20.0	20.4	
83 Ethyl methacrylate	69	7.178	7.175	0.003	92	275310	20.0	20.5	
84 1,1,2-Trichloroethane	97	7.249	7.252	-0.003	90	144687	20.0	19.5	
86 Tetrachloroethene	166	7.396	7.400	-0.004	96	159671	20.0	20.8	
87 1,3-Dichloropropane	76	7.419	7.422	-0.003	94	250513	20.0	20.1	
90 2-Hexanone	43	7.522	7.525	-0.003	97	509964	40.0	45.0	
91 Chlorodibromomethane	129	7.644	7.647	-0.003	91	138559	20.0	19.7	
93 Ethylene Dibromide	107	7.753	7.749	0.004	98	149624	20.0	20.2	
* 94 Chlorobenzene-d5 (IS)	117	8.195	8.192	0.003	88	1041836	50.0	50.0	
95 1-Chlorohexane	91	8.212	8.215	-0.003	97	217400	20.0	20.1	
96 Chlorobenzene	112	8.218	8.218	0.000	95	411673	20.0	20.2	
97 1,1,1,2-Tetrachloroethane	131	8.298	8.298	0.000	96	151961	20.0	19.9	
98 Ethylbenzene	91	8.327	8.324	0.003	98	793562	20.0	21.0	
99 m-Xylene & p-Xylene	106	8.433	8.430	0.003	99	597322	40.0	42.1	
100 o-Xylene	106	8.770	8.767	0.003	97	313705	20.0	21.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
101 Styrene	104	8.779	8.779	0.000	95	483241	20.0	20.8	
102 Bromoform	173	8.921	8.921	0.000	97	108319	20.0	20.6	
103 Isopropylbenzene	105	9.075	9.075	0.000	96	806346	20.0	21.5	
105 Cyclohexanone	55	9.139	9.142	-0.003	93	492023	500.0	542.9	
$ 106 4-Bromofluorobenzene (Surr)	95	9.190	9.187	0.003	87	538873	50.0	50.2	
107 Bromobenzene	156	9.306	9.306	0.000	94	168076	20.0	20.3	
108 1,1,2,2-Tetrachloroethane	83	9.306	9.309	-0.003	93	283006	20.0	20.4	
109 1,2,3-Trichloropropane	110	9.338	9.338	0.000	83	79941	20.0	20.1	
110 trans-1,4-Dichloro-2-butene	53	9.351	9.351	0.000	95	443489	100.0	104.4	
111 N-Propylbenzene	91	9.396	9.399	-0.003	99	896168	20.0	21.4	
112 2-Chlorotoluene	126	9.460	9.460	0.000	96	175962	20.0	20.7	
113 1,3,5-Trimethylbenzene	105	9.534	9.534	0.000	94	654238	20.0	21.3	
114 4-Chlorotoluene	126	9.540	9.543	-0.003	99	168578	20.0	20.2	
116 tert-Butylbenzene	134	9.777	9.781	-0.004	94	116667	20.0	20.7	
118 1,2,4-Trimethylbenzene	105	9.813	9.813	0.000	97	669005	20.0	21.3	
119 sec-Butylbenzene	105	9.941	9.941	0.000	94	763369	20.0	21.7	
141 1,3-Dichlorobenzene	146	10.018	10.018	0.000	97	321682	20.0	20.7	
143 4-Isopropyltoluene	119	10.047	10.047	0.000	97	647632	20.0	21.6	
S 142 1,3-Dichloropropene, Total	100				0			40.5	
* 144 1,4-Dichlorobenzene-d4	152	10.063	10.063	0.000	96	569458	50.0	50.0	
145 1,4-Dichlorobenzene	146	10.082	10.082	0.000	96	334066	20.0	20.6	
146 1,2,3-Trimethylbenzene	105	10.121	10.121	0.000	99	691457	20.0	21.3	
147 Benzyl chloride	91	10.179	10.179	0.000	99	564448	20.0	20.8	
148 1,3-Diethylbenzene	119	10.262	10.259	0.003	95	388478	20.0	21.5	
149 p-Diethylbenzene	119	10.320	10.320	0.000	93	397560	20.0	21.8	
150 n-Butylbenzene	92	10.336	10.336	0.000	97	321822	20.0	21.5	
151 1,2-Dichlorobenzene	146	10.345	10.345	0.000	97	330808	20.0	20.7	
152 o-diethylbenzene	119	10.403	10.403	0.000	96	318873	20.0	21.1	
153 1,2-Dibromo-3-Chloropropane	75	10.885	10.881	0.004	83	79003	20.0	20.3	
154 1,3,5-Trichlorobenzene	180	11.029	11.029	0.000	97	233996	20.0	21.8	
S 155 Xylenes, Total	106				0			63.1	
156 1,2,4-Trichlorobenzene	180	11.436	11.440	-0.004	94	227971	20.0	21.3	
157 Hexachlorobutadiene	225	11.546	11.549	-0.003	98	80995	20.0	21.8	
158 Naphthalene	128	11.600	11.600	0.000	97	998095	20.0	21.2	
159 1,2,3-Trichlorobenzene	180	11.757	11.757	0.000	96	239694	20.0	21.5	
160 2-Methylnaphthalene	142	12.322	12.322	0.000	92	548664	20.0	21.4	
S 172 Total Diethylbenzene	1				0			64.4	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_VOC#1_00094	Amount Added:	4.00	Units: uL	
MSV_CCV_CYC_00004	Amount Added:	16.00	Units: uL	
MSV_CCV_VOC#3_00094	Amount Added:	3.20	Units: uL	
MSV_CCV_2CEVE_00090	Amount Added:	4.00	Units: uL	
MSV_CCV_ETOH_00003	Amount Added:	16.00	Units: uL	
MSV_CCV_GASES_00292	Amount Added:	2.00	Units: uL	
MSV_V_VOA2_00163	Amount Added:	4.00	Units: uL	
MSV_Cent_ISSS_00013	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 29-Oct-2022 01:14:53 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X13.D

Injection Date: 27-Oct-2022 16:46:30 Instrument ID: 9137 Operator ID: lcp00895

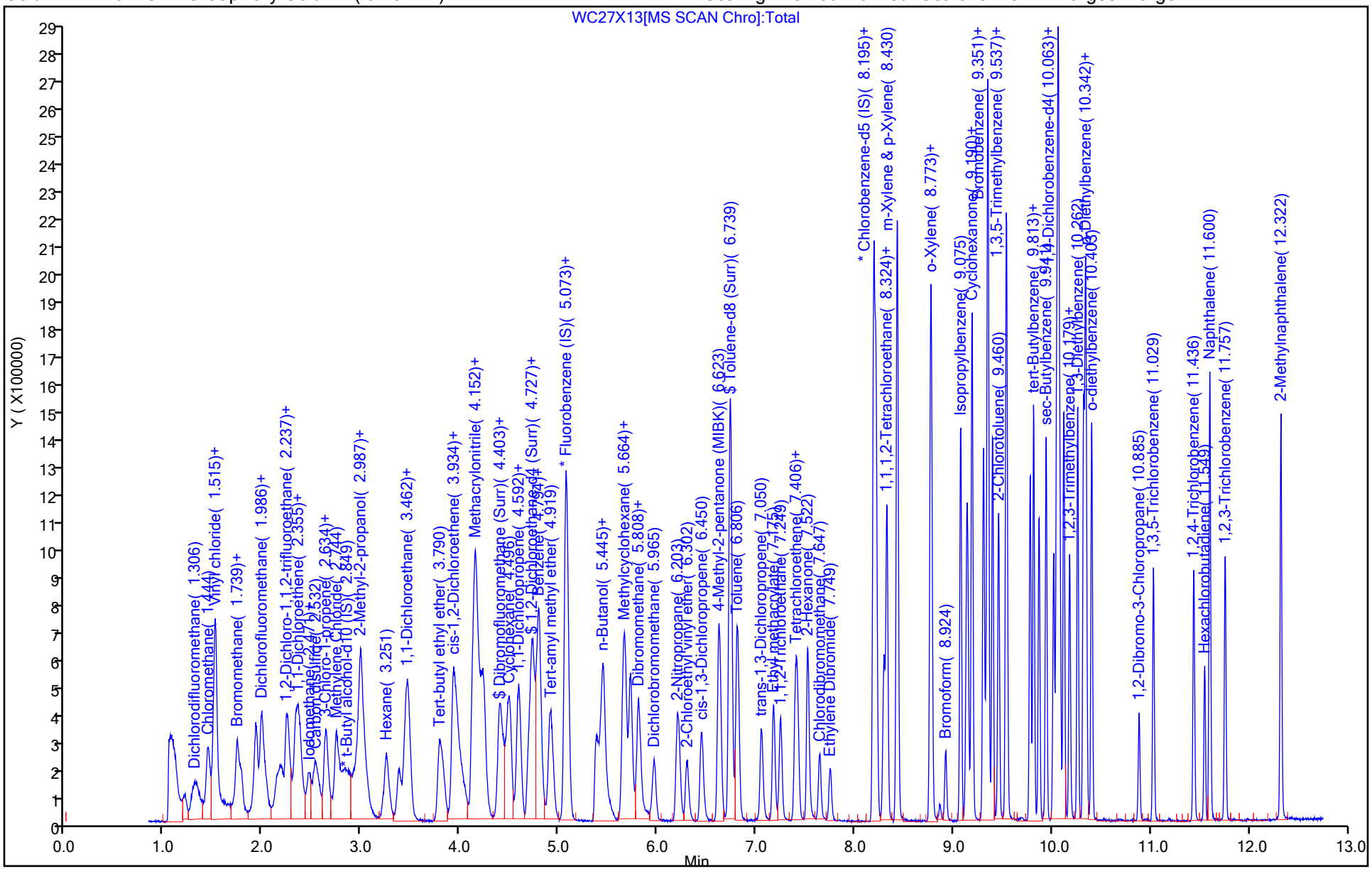
Lims ID: IC v20 Worklist Smp#: 14

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 13

Method: MSVoa_9137 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

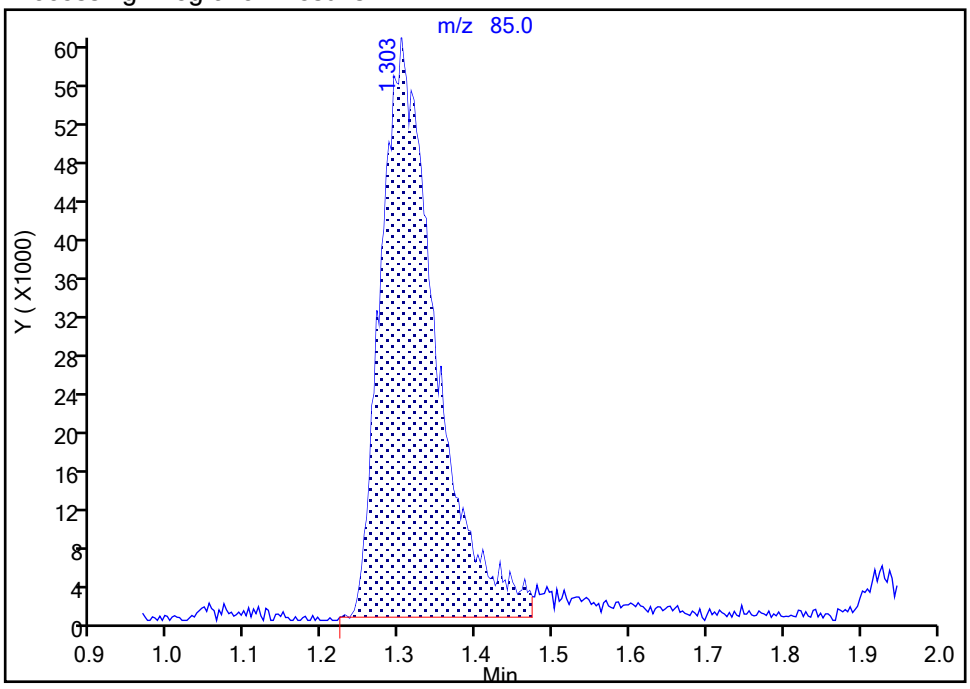
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X13.D
Injection Date: 27-Oct-2022 16:46:30 Instrument ID: 9137
Lims ID: IC v20
Client ID:
Operator ID: lcp00895 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

5 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

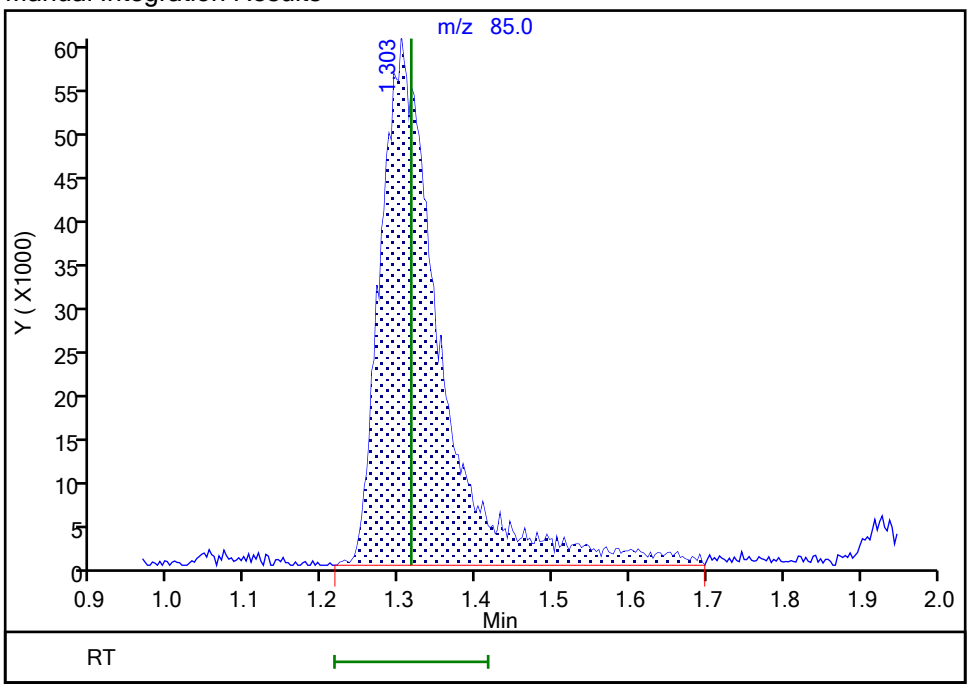
Processing Integration Results

RT: 1.30
Area: 296016
Amount: 18.209572
Amount Units: ug/l



Manual Integration Results

RT: 1.30
Area: 323573
Amount: 18.225455
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:40:47
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

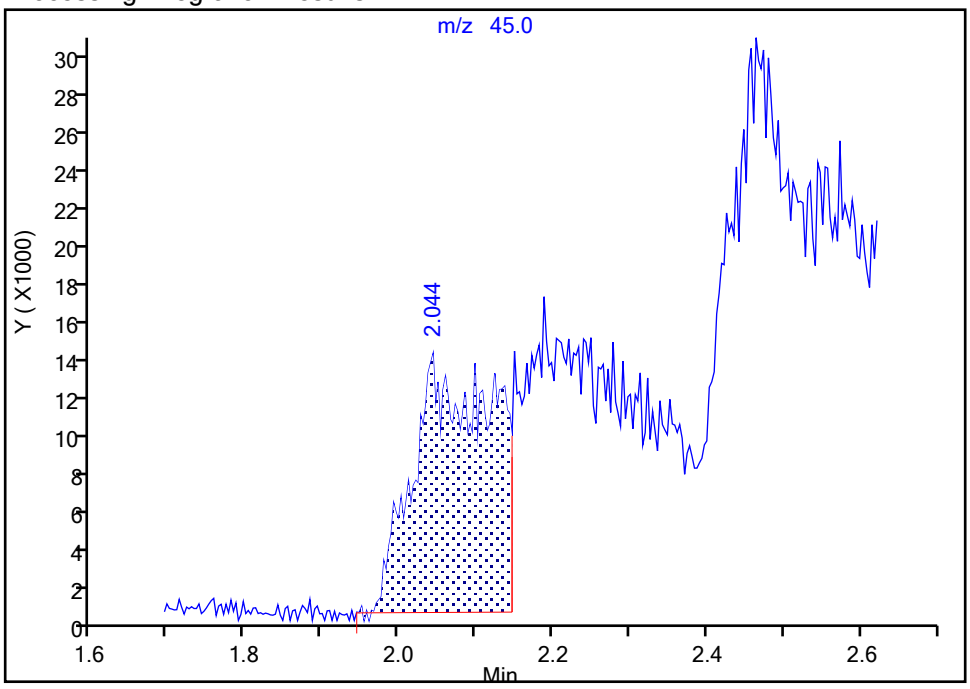
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X13.D
Injection Date: 27-Oct-2022 16:46:30 Instrument ID: 9137
Lims ID: IC v20
Client ID:
Operator ID: lcp00895 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

16 Ethanol, CAS: 64-17-5

Signal: 1

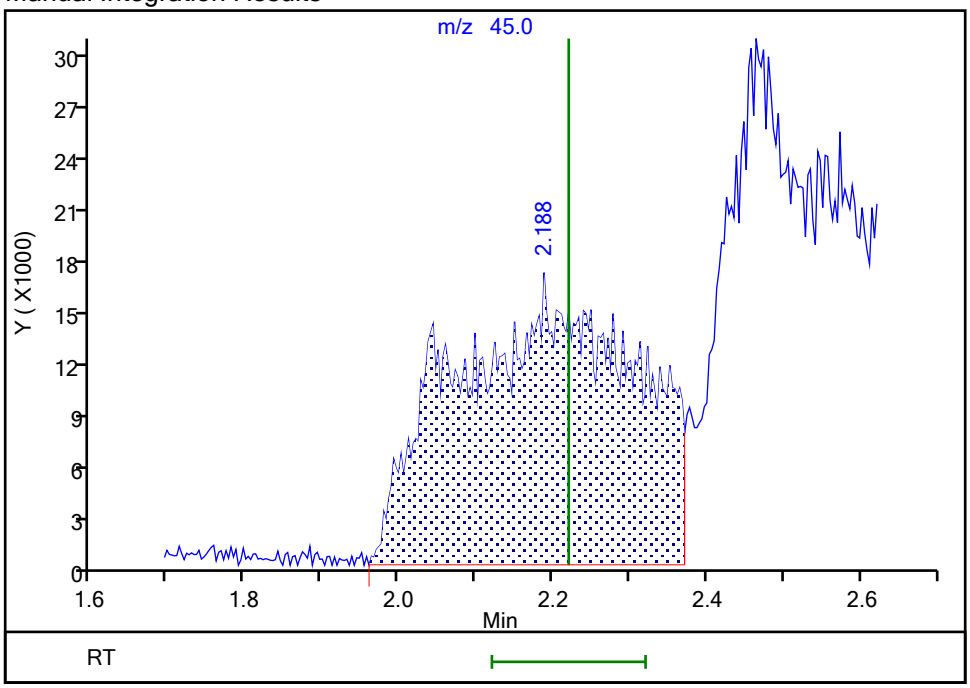
Processing Integration Results

RT: 2.04
Area: 95423
Amount: 576.0651
Amount Units: ug/l



Manual Integration Results

RT: 2.19
Area: 265630
Amount: 940.9329
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:41:14
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

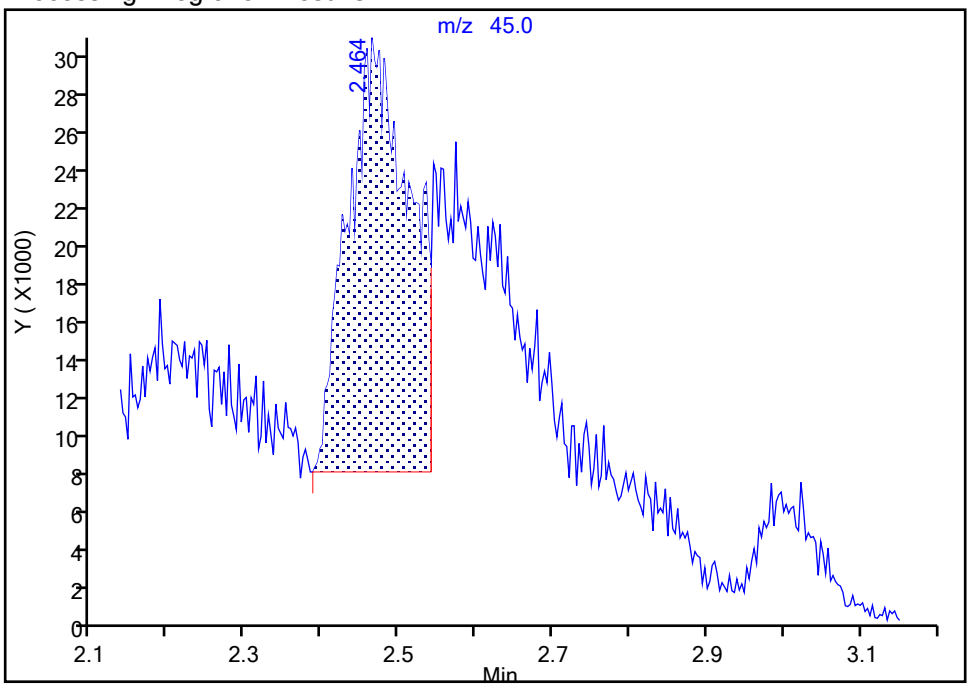
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X13.D
Injection Date: 27-Oct-2022 16:46:30 Instrument ID: 9137
Lims ID: IC v20
Client ID:
Operator ID: lcp00895 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

23 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

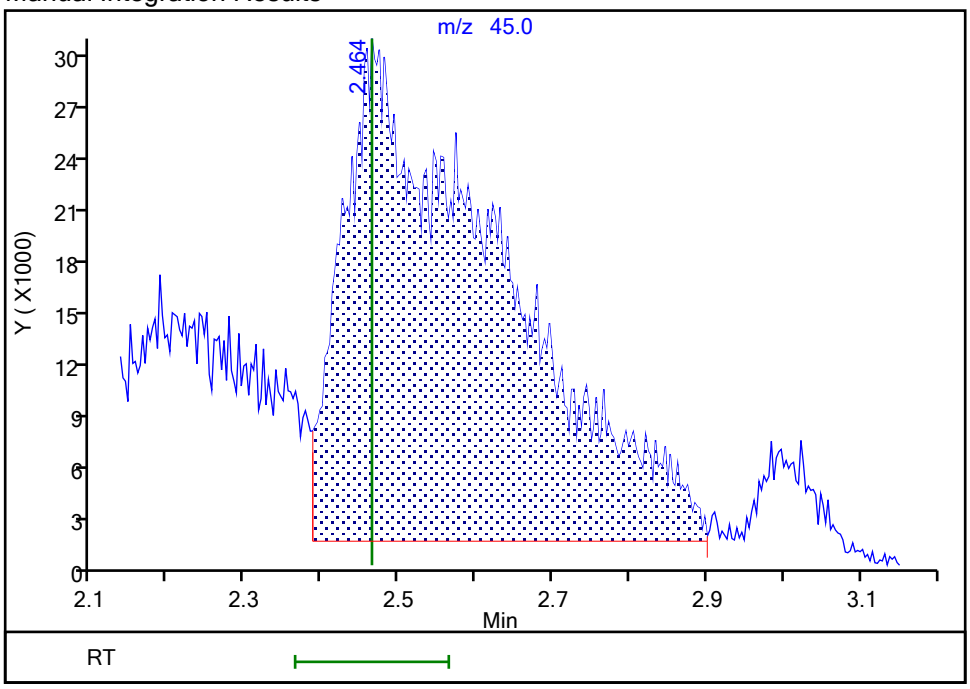
Processing Integration Results

RT: 2.46
Area: 125755
Amount: 78.916276
Amount Units: ug/l



Manual Integration Results

RT: 2.46
Area: 409133
Amount: 195.4550
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:41:35
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X14.D
Lims ID: IC v10
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 27-Oct-2022 17:06:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0069757-015
Misc. Info.: IC V10
Operator ID: lcp00895 Instrument ID: 9137
Sublist: chrom-MSVoa_9137*sub28

Method: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 29-Oct-2022 01:14:57 Calib Date: 27-Oct-2022 17:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1618

First Level Reviewer: K4WN Date: 29-Oct-2022 00:44:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 Dichlorodifluoromethane	85	1.316	1.316	0.000	93	188491	10.0	10.5	M
6 Chloromethane	50	1.447	1.447	0.000	99	187979	10.0	10.0	M
7 Vinyl chloride	62	1.518	1.514	0.004	89	180064	10.0	10.1	
8 Butadiene	39	1.521	1.521	0.000	90	182269	10.0	10.2	M
10 Bromomethane	94	1.749	1.746	0.003	91	98533	10.0	9.63	
11 Chloroethane	64	1.774	1.781	-0.007	99	89921	10.0	10.1	
12 Dichlorofluoromethane	67	1.938	1.935	0.003	97	207724	10.0	10.1	
13 Pentane	43	1.993	1.986	0.007	94	137615	10.0	9.15	
14 Trichlorofluoromethane	101	1.986	1.993	-0.007	58	181424	10.0	10.2	M
17 1,2-Dichloro-1,1,2-trifluoroetha	67	2.169	2.172	-0.003	92	116461	10.0	9.64	
16 Ethanol	45	2.221	2.220	0.000	37	132557	500.0	469.0	M
18 Acrolein	56	2.256	2.249	0.007	99	334755	100.0	96.8	
19 1,1-Dichloroethene	96	2.339	2.339	0.000	97	76792	10.0	9.53	
20 Acetone	58	2.394	2.368	0.026	98	39203	20.0	20.3	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.378	2.374	0.004	91	83125	10.0	9.68	
23 Isopropyl alcohol	45	2.468	2.464	0.004	36	207893	100.0	99.2	M
22 Iodomethane	142	2.477	2.468	0.009	95	121091	10.0	9.89	
24 Carbon disulfide	76	2.535	2.538	-0.003	100	235138	10.0	9.66	
25 3-Chloro-1-propene	41	2.638	2.641	-0.003	93	139602	10.0	9.74	
27 Methyl acetate	43	2.667	2.654	0.013	91	118454	10.0	10.1	
28 Methylene Chloride	84	2.753	2.744	0.009	96	87238	10.0	9.68	
* 29 t-Butyl alcohol-d10 (IS)	65	2.859	2.849	0.010	90	751450	250.0	250.0	
30 2-Methyl-2-propanol	59	2.914	2.907	0.007	79	337455	100.0	97.8	
31 Acrylonitrile	53	2.975	2.965	0.010	98	151390	25.0	24.3	
33 trans-1,2-Dichloroethene	96	3.000	2.994	0.006	95	77205	10.0	9.60	
32 Methyl tert-butyl ether	73	3.016	3.000	0.016	92	271712	10.0	9.78	
34 Hexane	57	3.260	3.251	0.010	93	113062	10.0	9.63	
35 1,1-Dichloroethane	63	3.389	3.382	0.007	97	145388	10.0	9.79	
37 Isopropyl ether	45	3.459	3.453	0.006	96	297999	10.0	10.0	
38 2-Chloro-1,3-butadiene	53	3.478	3.472	0.006	92	133179	10.0	9.71	

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	3.799	3.793	0.006	98	281579	10.0	10.0	
40 cis-1,2-Dichloroethene	96	3.937	3.931	0.006	86	84880	10.0	9.70	
42 2,2-Dichloropropane	77	3.963	3.950	0.013	85	140886	10.0	9.56	
41 2-Butanone (MEK)	43	3.963	3.950	0.013	93	161720	20.0	18.2	
44 Propionitrile	54	4.005	4.011	-0.006	99	280999	100.0	95.7	
45 Methacrylonitrile	67	4.149	4.146	0.003	93	278009	50.0	49.1	
46 Chlorobromomethane	128	4.165	4.168	-0.003	89	40759	10.0	10.0	
47 Tetrahydrofuran	71	4.223	4.213	0.010	87	110389	50.0	48.5	
48 Chloroform	83	4.249	4.245	0.004	95	133194	10.0	9.61	
$ 50 Dibromofluoromethane (Surr)	113	4.399	4.403	-0.003	93	322290	50.0	49.3	
51 1,1,1-Trichloroethane	97	4.435	4.438	-0.003	99	133327	10.0	9.73	
52 Cyclohexane	56	4.502	4.499	0.003	93	173060	10.0	9.63	
53 1,1-Dichloropropene	75	4.592	4.589	0.003	95	112650	10.0	9.51	
54 Carbon tetrachloride	117	4.611	4.595	0.016	95	104445	10.0	9.82	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	4.736	4.733	0.003	80	89788	50.0	51.3	
55 Isobutyl alcohol	41	4.746	4.739	0.007	64	241982	250.0	242.1	
57 Benzene	78	4.807	4.797	0.010	95	338677	10.0	9.80	
58 1,2-Dichloroethane	62	4.810	4.807	0.003	94	108281	10.0	10.2	
60 Tert-amyl methyl ether	73	4.919	4.919	0.000	98	265036	10.0	9.79	
* 61 Fluorobenzene (IS)	96	5.080	5.073	0.007	98	1411017	50.0	50.0	
62 n-Heptane	43	5.083	5.083	0.000	65	101235	10.0	9.40	
63 n-Butanol	56	5.388	5.394	-0.006	91	314895	375.0	364.7	
64 Trichloroethene	95	5.452	5.449	0.003	99	81867	10.0	9.76	
65 Methylcyclohexane	83	5.654	5.664	-0.010	93	142777	10.0	10.0	
66 1,2-Dichloropropane	63	5.686	5.683	0.003	94	87401	10.0	9.59	
67 2-ethoxy-2-methyl butane	87	5.731	5.725	0.006	91	119793	10.0	9.69	
68 Dibromomethane	93	5.802	5.795	0.007	95	51761	10.0	9.65	
69 Methyl methacrylate	69	5.824	5.814	0.010	95	85027	10.0	9.65	
70 1,4-Dioxane	88	5.821	5.818	0.003	35	51815	250.0	255.2	
72 Dichlorobromomethane	83	5.965	5.968	-0.003	98	94012	10.0	9.36	
S 73 1,2-Dichloroethene, Total	100				0			19.3	
74 2-Nitropropane	41	6.206	6.206	0.000	98	189493	50.0	45.3	
75 2-Chloroethyl vinyl ether	63	6.302	6.296	0.006	90	63966	10.0	9.58	
77 cis-1,3-Dichloropropene	75	6.447	6.447	0.000	95	126446	10.0	9.60	
78 4-Methyl-2-pentanone (MIBK)	43	6.630	6.626	0.004	97	332998	20.0	19.4	
$ 79 Toluene-d8 (Surr)	98	6.739	6.739	0.000	94	1408324	50.0	50.8	
80 Toluene	92	6.816	6.812	0.004	98	204487	10.0	10.2	
81 trans-1,3-Dichloropropene	75	7.056	7.056	0.000	94	112470	10.0	9.58	
83 Ethyl methacrylate	69	7.178	7.175	0.003	92	131872	10.0	9.77	
84 1,1,2-Trichloroethane	97	7.249	7.252	-0.003	91	71422	10.0	9.56	
86 Tetrachloroethene	166	7.403	7.400	0.003	97	76962	10.0	10.0	
87 1,3-Dichloropropane	76	7.425	7.422	0.003	93	122541	10.0	9.80	
90 2-Hexanone	43	7.528	7.525	0.003	98	231424	20.0	20.3	
91 Chlorodibromomethane	129	7.650	7.647	0.003	90	68656	10.0	9.69	
93 Ethylene Dibromide	107	7.756	7.749	0.007	99	74026	10.0	9.93	
* 94 Chlorobenzene-d5 (IS)	117	8.192	8.192	0.000	87	1047605	50.0	50.0	
95 1-Chlorohexane	91	8.212	8.215	-0.003	94	104279	10.0	9.61	
96 Chlorobenzene	112	8.221	8.218	0.003	96	202223	10.0	9.88	
97 1,1,1,2-Tetrachloroethane	131	8.298	8.298	0.000	96	75772	10.0	9.85	
98 Ethylbenzene	91	8.327	8.324	0.003	99	381603	10.0	10.0	
99 m-Xylene & p-Xylene	106	8.433	8.430	0.003	99	289631	20.0	20.3	
100 o-Xylene	106	8.770	8.767	0.003	97	151926	10.0	10.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
101 Styrene	104	8.783	8.779	0.004	95	235689	10.0	10.1	
102 Bromoform	173	8.921	8.921	0.000	95	50367	10.0	9.51	
103 Isopropylbenzene	105	9.075	9.075	0.000	96	394666	10.0	10.5	
105 Cyclohexanone	55	9.142	9.142	0.000	94	224557	250.0	247.5	
$ 106 4-Bromofluorobenzene (Surr)	95	9.190	9.187	0.003	87	545285	50.0	50.5	
107 Bromobenzene	156	9.306	9.306	0.000	94	85107	10.0	10.1	
108 1,1,2,2-Tetrachloroethane	83	9.306	9.309	-0.003	94	140566	10.0	9.97	
109 1,2,3-Trichloropropane	110	9.341	9.338	0.003	82	38601	10.0	9.54	
110 trans-1,4-Dichloro-2-butene	53	9.351	9.351	0.000	94	210381	50.0	48.6	
111 N-Propylbenzene	91	9.399	9.399	0.000	99	431150	10.0	10.1	
112 2-Chlorotoluene	126	9.460	9.460	0.000	96	86636	10.0	10.0	
113 1,3,5-Trimethylbenzene	105	9.537	9.534	0.003	94	313919	10.0	10.1	
114 4-Chlorotoluene	126	9.543	9.543	0.000	99	83193	10.0	9.79	
116 tert-Butylbenzene	134	9.781	9.781	0.000	94	55862	10.0	9.73	
118 1,2,4-Trimethylbenzene	105	9.816	9.813	0.003	98	323459	10.0	10.1	
119 sec-Butylbenzene	105	9.941	9.941	0.000	94	366834	10.0	10.2	
141 1,3-Dichlorobenzene	146	10.018	10.018	0.000	98	156828	10.0	9.91	
143 4-Isopropyltoluene	119	10.047	10.047	0.000	97	309969	10.0	10.2	
S 142 1,3-Dichloropropene, Total	100				0			19.2	
* 144 1,4-Dichlorobenzene-d4	152	10.066	10.063	0.003	96	580113	50.0	50.0	
145 1,4-Dichlorobenzene	146	10.082	10.082	0.000	96	165383	10.0	10.0	
146 1,2,3-Trimethylbenzene	105	10.121	10.121	0.000	99	337555	10.0	10.2	
147 Benzyl chloride	91	10.182	10.179	0.003	98	274284	10.0	9.94	
148 1,3-Diethylbenzene	119	10.259	10.259	0.000	95	186697	10.0	10.2	a
149 p-Diethylbenzene	119	10.320	10.320	0.000	95	191458	10.0	10.3	
150 n-Butylbenzene	92	10.339	10.336	0.003	98	155308	10.0	10.2	
151 1,2-Dichlorobenzene	146	10.349	10.345	0.004	98	163238	10.0	10.0	
152 o-diethylbenzene	119	10.403	10.403	0.000	97	153454	10.0	9.96	
153 1,2-Dibromo-3-Chloropropane	75	10.881	10.881	0.000	83	39648	10.0	10.0	
154 1,3,5-Trichlorobenzene	180	11.032	11.029	0.003	97	111789	10.0	10.2	
S 155 Xylenes, Total	106				0			30.4	
156 1,2,4-Trichlorobenzene	180	11.440	11.440	0.000	95	112578	10.0	10.3	
157 Hexachlorobutadiene	225	11.549	11.549	0.000	96	39038	10.0	10.3	
158 Naphthalene	128	11.600	11.600	0.000	97	495746	10.0	10.3	
159 1,2,3-Trichlorobenzene	180	11.757	11.757	0.000	94	115826	10.0	10.2	
160 2-Methylnaphthalene	142	12.322	12.322	0.000	92	260110	10.0	9.94	
S 172 Total Diethylbenzene	1				0			30.4	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_CCV_VOC#1_00094	Amount Added:	2.00	Units: uL	
MSV_CCV_CYC_00004	Amount Added:	8.00	Units: uL	
MSV_CCV_VOC#3_00094	Amount Added:	1.60	Units: uL	
MSV_CCV_2CEVE_00090	Amount Added:	2.00	Units: uL	
MSV_CCV_ETOH_00003	Amount Added:	8.00	Units: uL	
MSV_CCV_GASES_00292	Amount Added:	1.00	Units: uL	
MSV_V_VOA2_00163	Amount Added:	2.00	Units: uL	
MSV_Cent_ISSS_00013	Amount Added:	5.00	Units: uL	Run Reagent

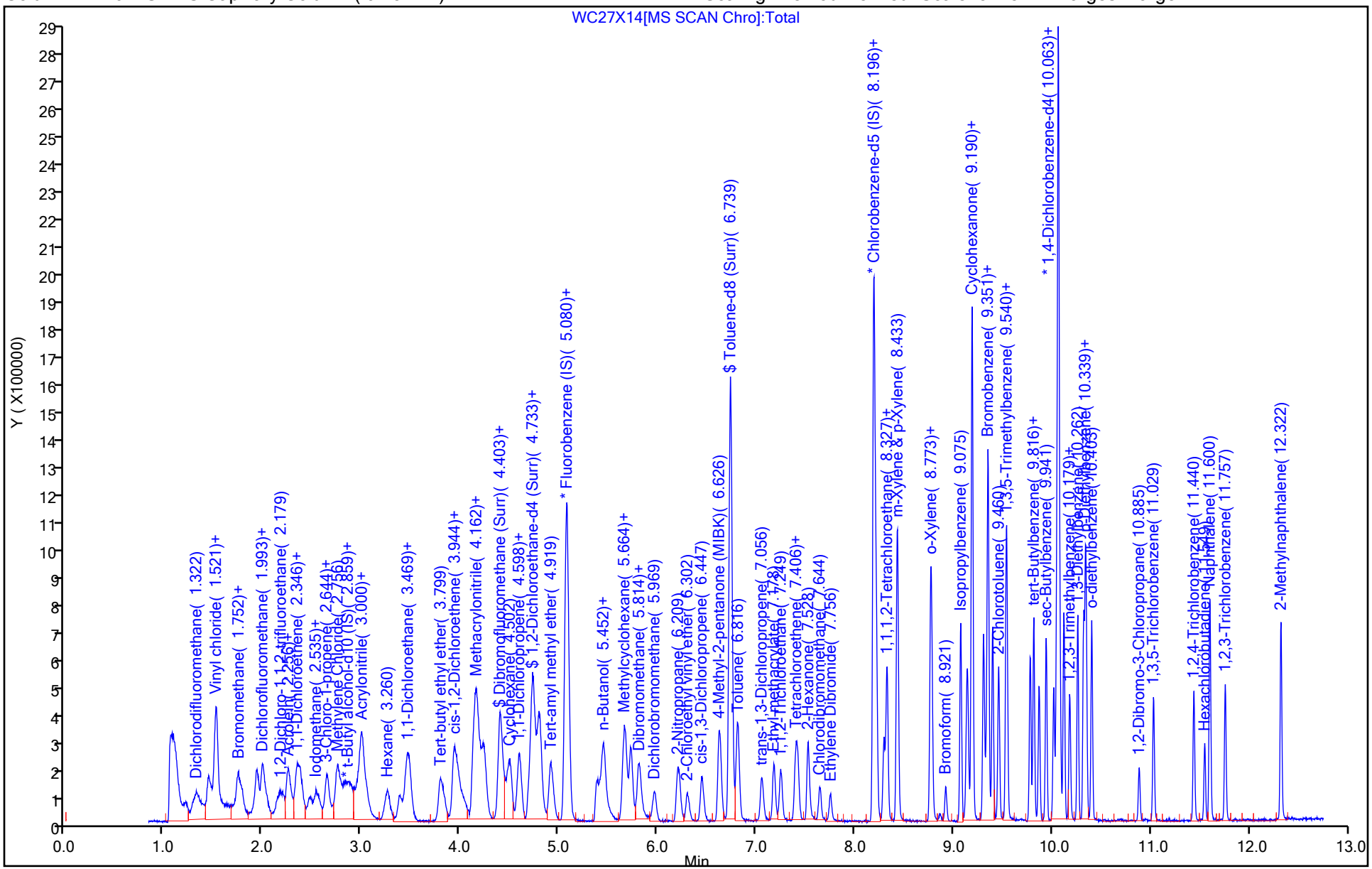
Report Date: 29-Oct-2022 01:14:58 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X14.D

Injection Date:	27-Oct-2022 17:06:30	Instrument ID:	9137	Operator ID:	lcp00895
Lims ID:	IC v10			Worklist Smp#:	15
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	MSVoa_9137	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

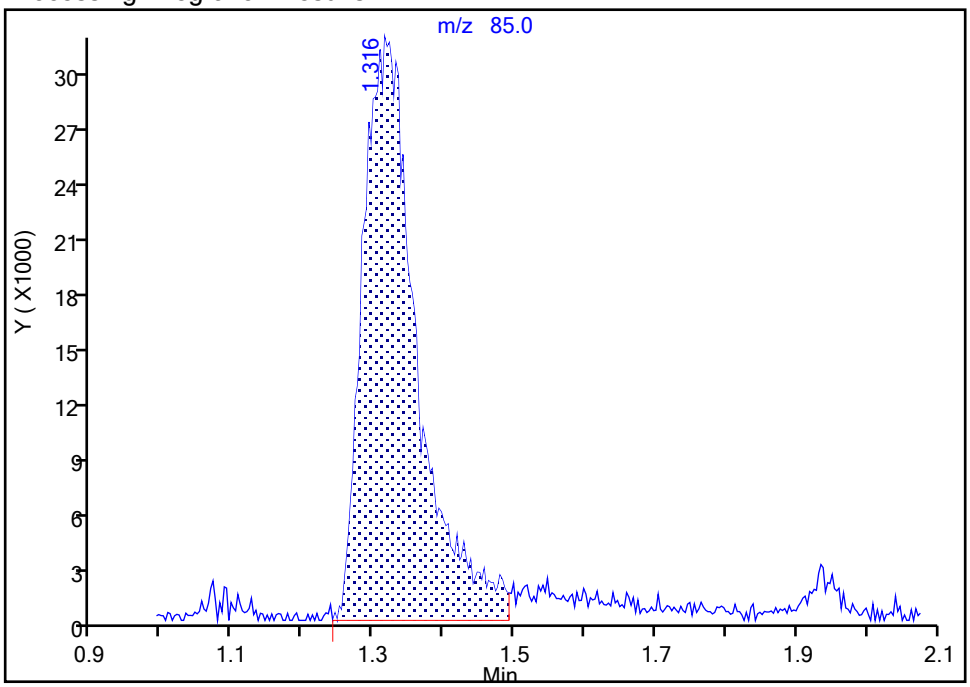
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X14.D
Injection Date: 27-Oct-2022 17:06:30 Instrument ID: 9137
Lims ID: IC v10
Client ID:
Operator ID: lcp00895 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

5 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

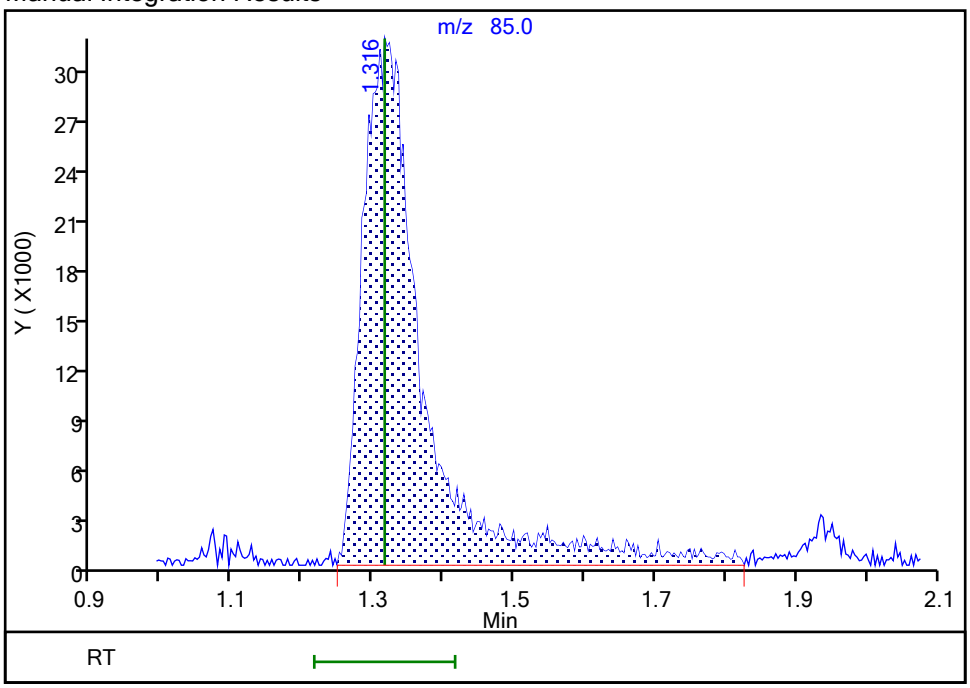
Processing Integration Results

RT: 1.32
Area: 169389
Amount: 10.151889
Amount Units: ug/l



Manual Integration Results

RT: 1.32
Area: 188491
Amount: 10.468896
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:42:31
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

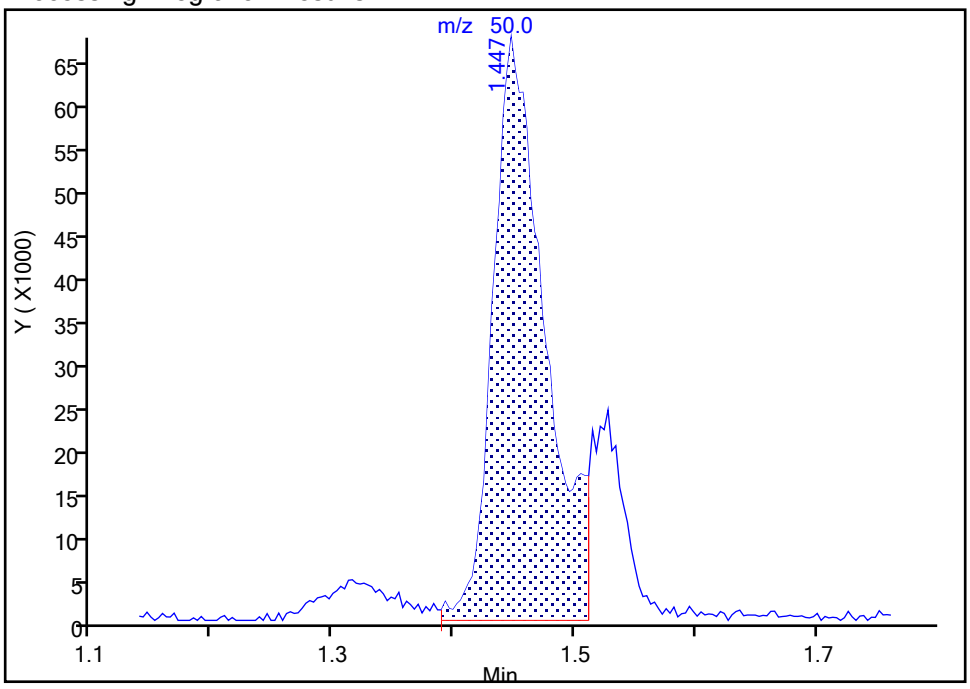
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X14.D
Injection Date: 27-Oct-2022 17:06:30 Instrument ID: 9137
Lims ID: IC v10
Client ID:
Operator ID: lcp00895 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

6 Chloromethane, CAS: 74-87-3

Signal: 1

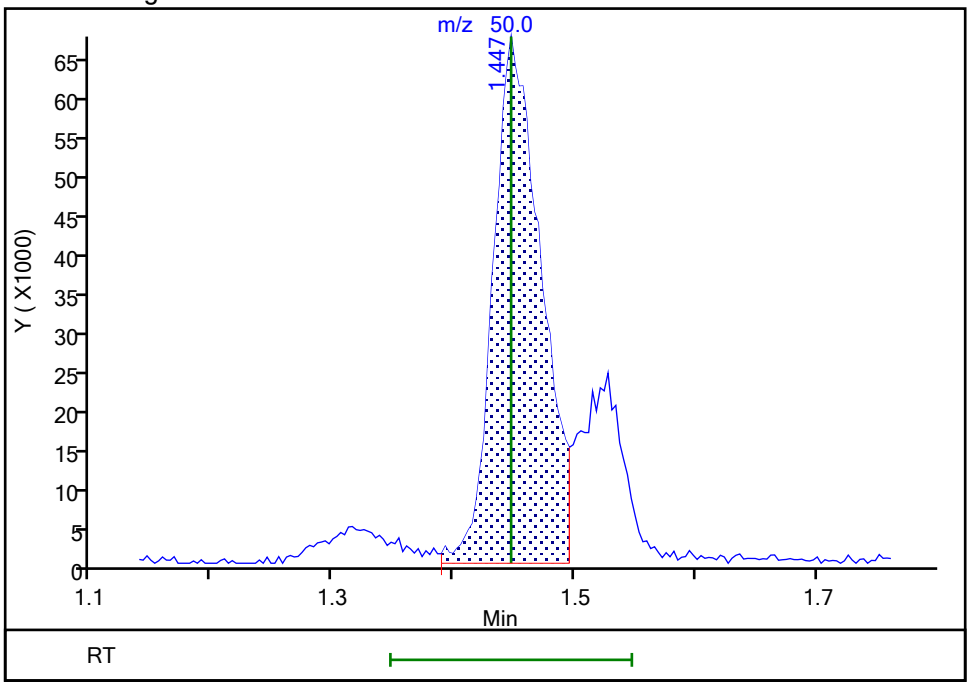
Processing Integration Results

RT: 1.45
Area: 203883
Amount: 10.755854
Amount Units: ug/l



Manual Integration Results

RT: 1.45
Area: 187979
Amount: 10.037143
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:42:38
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

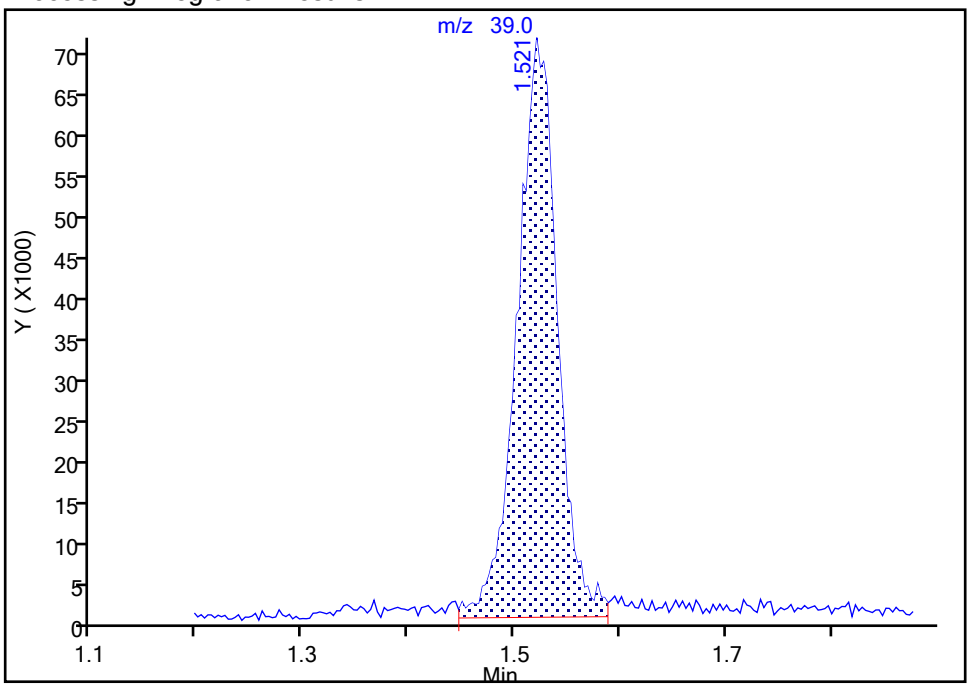
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X14.D
Injection Date: 27-Oct-2022 17:06:30 Instrument ID: 9137
Lims ID: IC v10
Client ID:
Operator ID: lcp00895 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

8 Butadiene, CAS: 106-99-0

Signal: 1

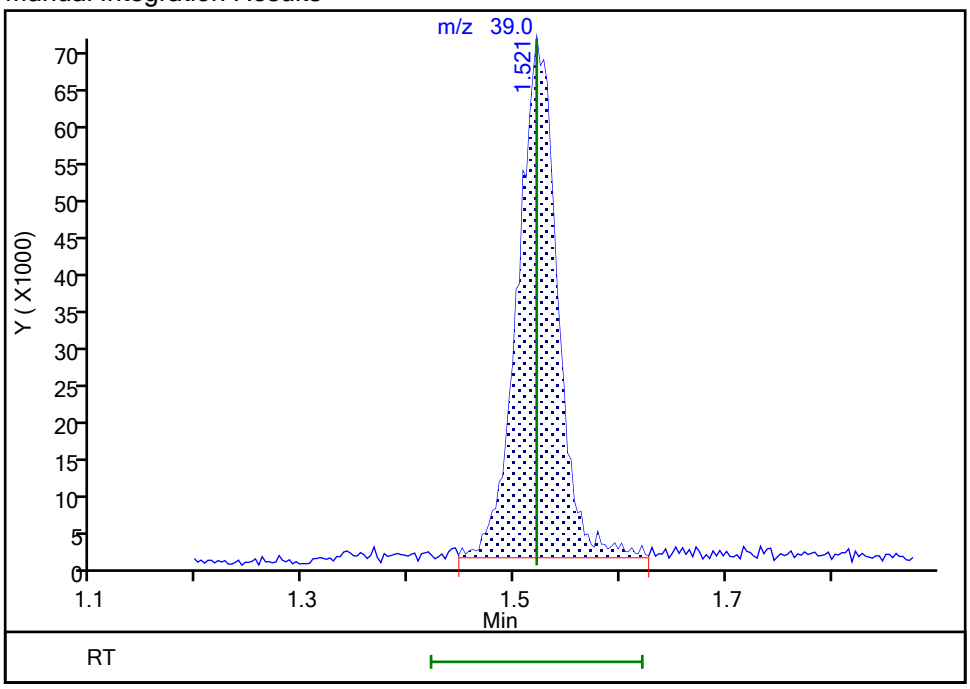
Processing Integration Results

RT: 1.52
Area: 185353
Amount: 10.264617
Amount Units: ug/l



Manual Integration Results

RT: 1.52
Area: 182269
Amount: 10.210497
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:43:02
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

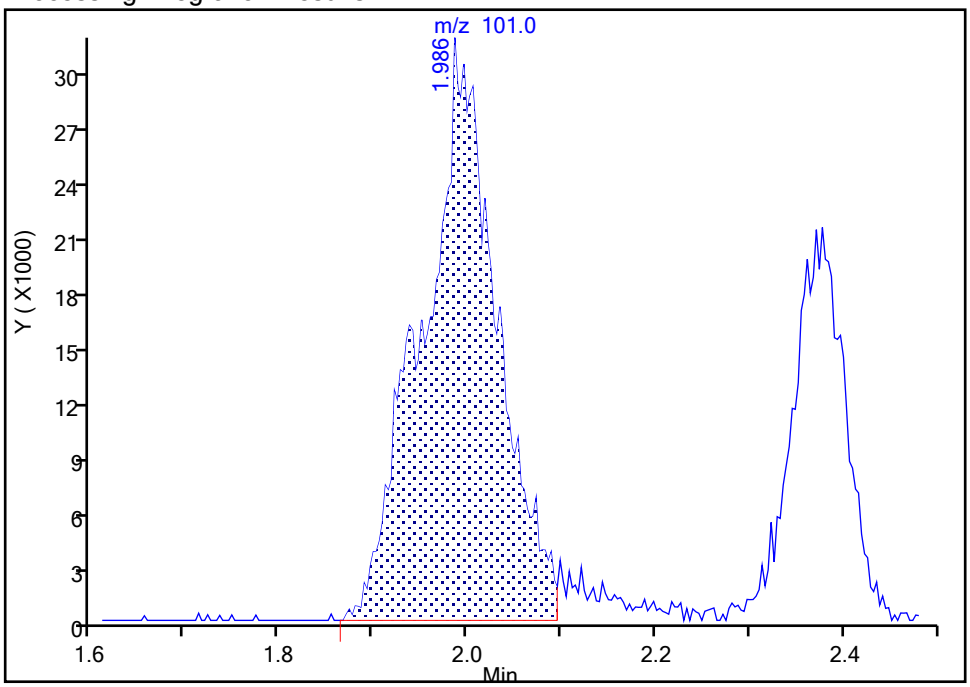
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X14.D
Injection Date: 27-Oct-2022 17:06:30 Instrument ID: 9137
Lims ID: IC v10
Client ID:
Operator ID: lcp00895 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

14 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

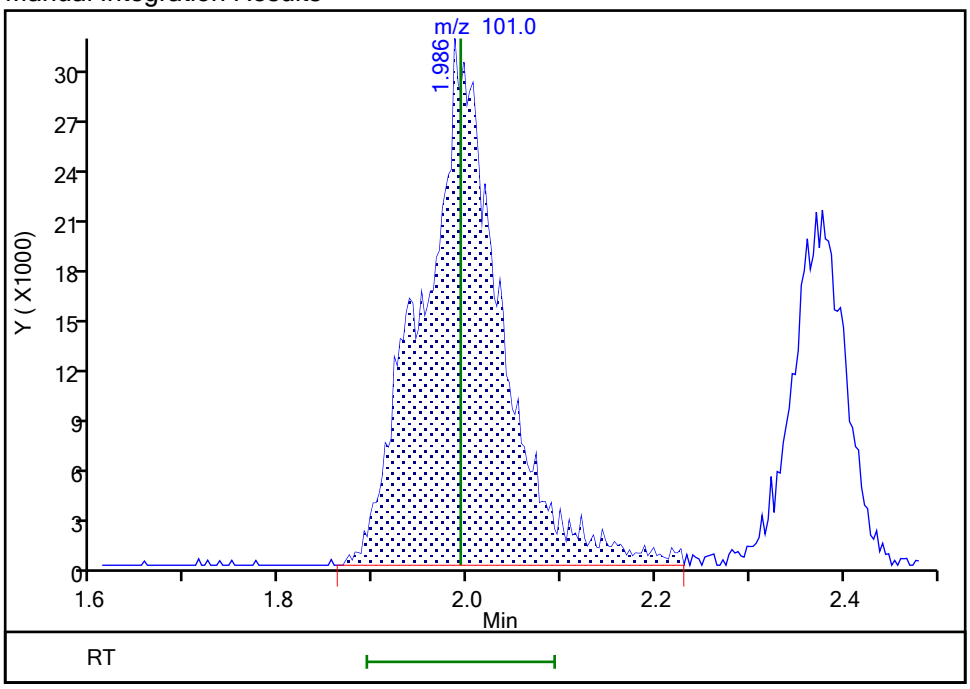
Processing Integration Results

RT: 1.99
Area: 171945
Amount: 9.782494
Amount Units: ug/l



Manual Integration Results

RT: 1.99
Area: 181424
Amount: 10.242872
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:43:14
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

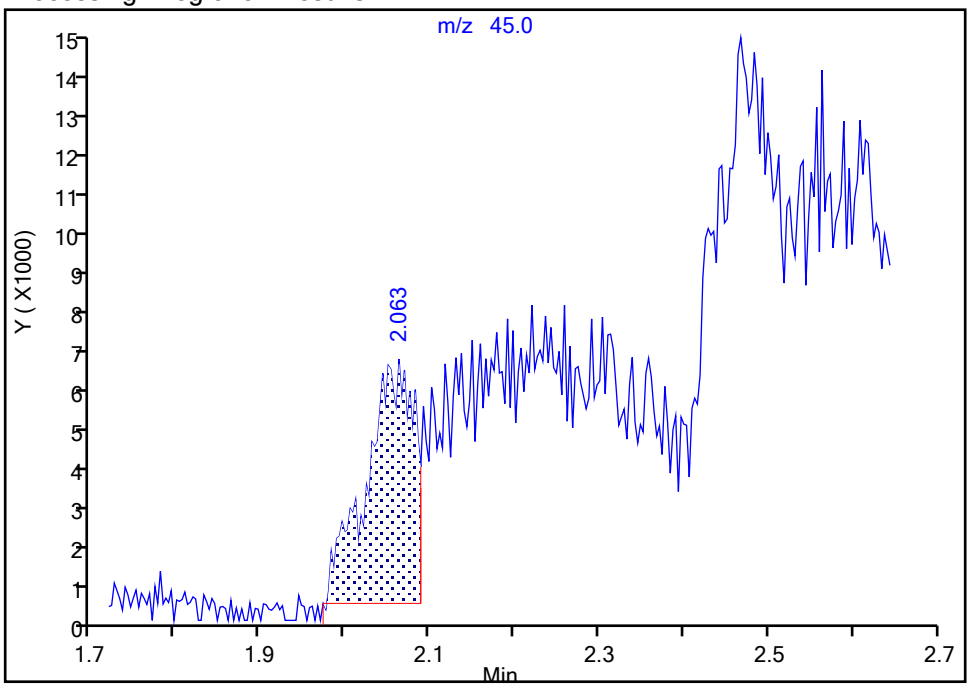
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X14.D
Injection Date: 27-Oct-2022 17:06:30 Instrument ID: 9137
Lims ID: IC v10
Client ID:
Operator ID: lcp00895 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

16 Ethanol, CAS: 64-17-5

Signal: 1

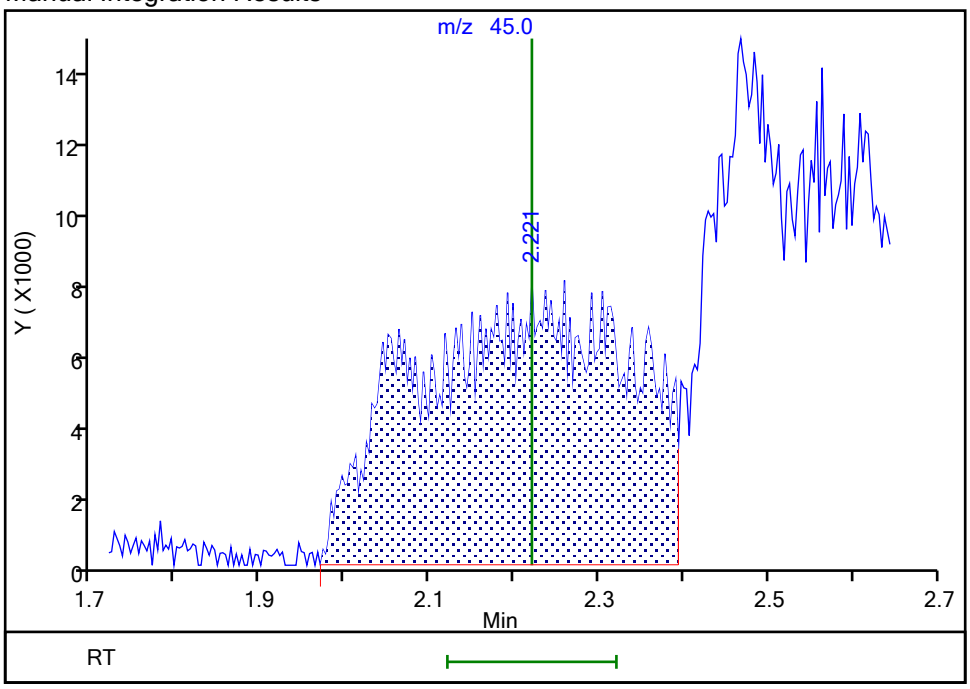
Processing Integration Results

RT: 2.06
Area: 23626
Amount: 124.2356
Amount Units: ug/l



Manual Integration Results

RT: 2.22
Area: 132557
Amount: 469.0339
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:43:28
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

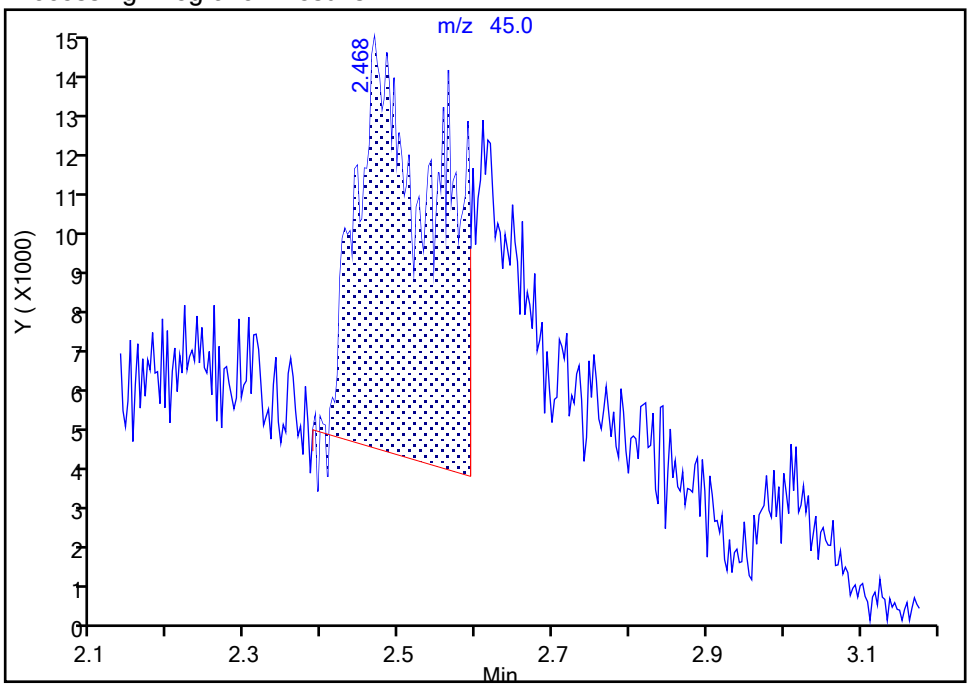
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X14.D
Injection Date: 27-Oct-2022 17:06:30 Instrument ID: 9137
Lims ID: IC v10
Client ID:
Operator ID: lcp00895 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

23 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

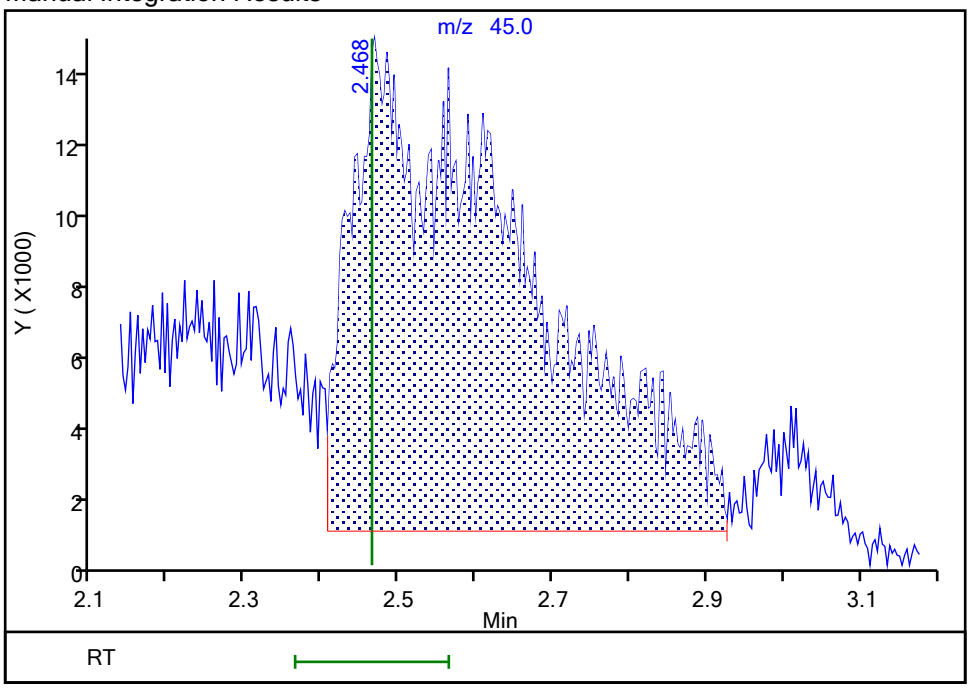
Processing Integration Results

RT: 2.47
Area: 73013
Amount: 40.609637
Amount Units: ug/l



Manual Integration Results

RT: 2.47
Area: 207893
Amount: 99.206958
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:43:50
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

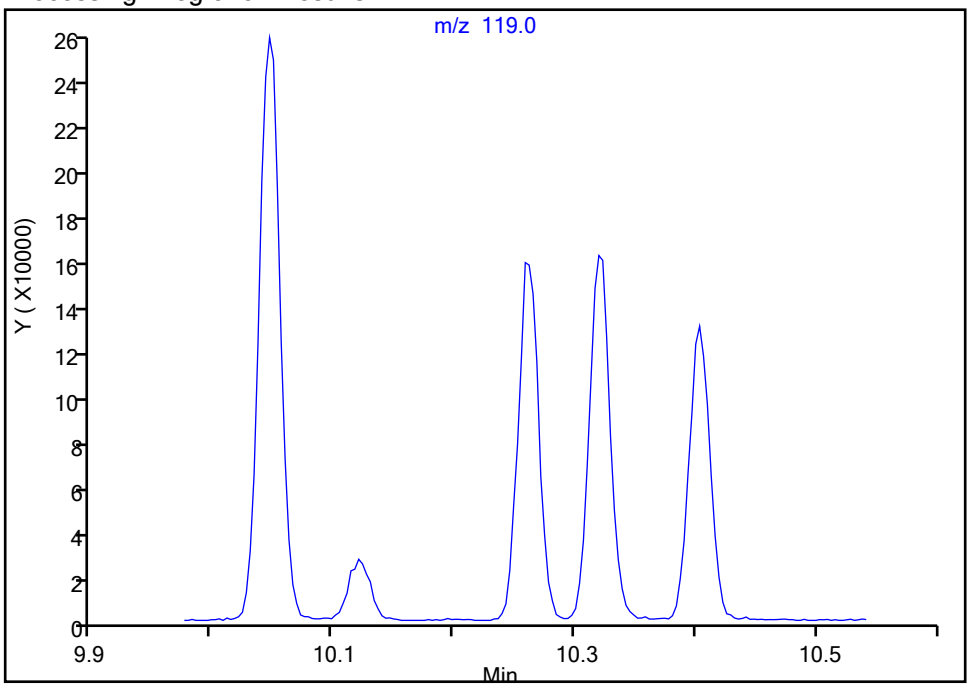
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X14.D
Injection Date: 27-Oct-2022 17:06:30 Instrument ID: 9137
Lims ID: IC v10
Client ID:
Operator ID: lcp00895 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

148 1,3-Diethylbenzene, CAS: 141-93-5

Signal: 1

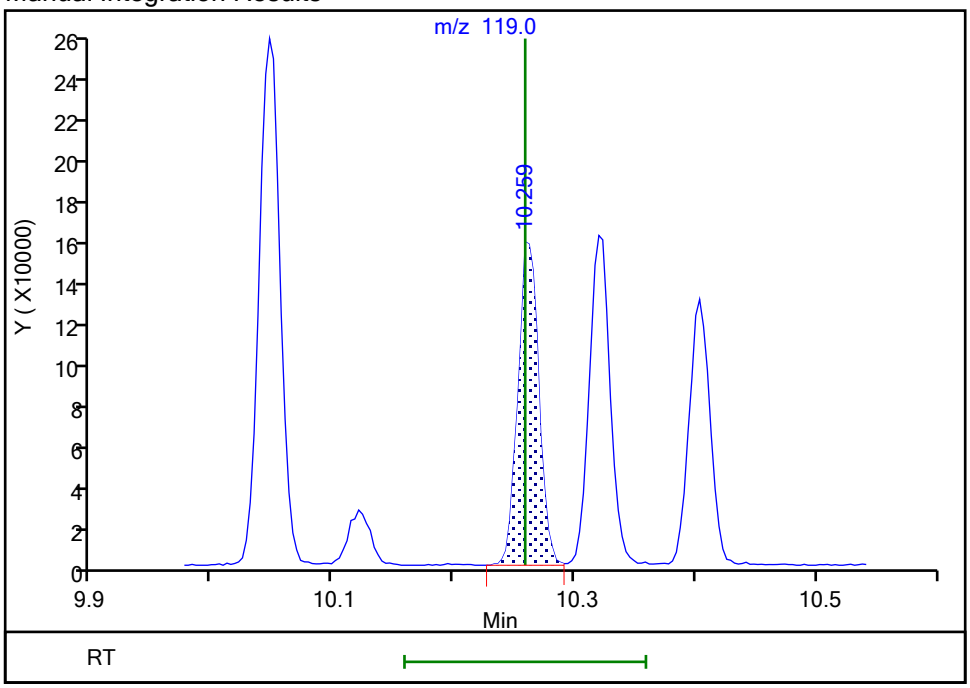
Not Detected
Expected RT: 10.26

Processing Integration Results



Manual Integration Results

RT: 10.26
Area: 186697
Amount: 10.154483
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:44:21
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X15.D
Lims ID: IC v4
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 27-Oct-2022 17:26:30 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0069757-016
Misc. Info.: IC V4
Operator ID: lcp00895 Instrument ID: 9137
Sublist: chrom-MSVoa_9137*sub28

Method: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 29-Oct-2022 01:15:02 Calib Date: 27-Oct-2022 17:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1618

First Level Reviewer: K4WN Date: 29-Oct-2022 00:48:12

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 Dichlorodifluoromethane	85	1.319	1.316	0.003	31	77064	4.00	4.47	M
6 Chloromethane	50	1.444	1.447	-0.003	99	76108	4.00	4.24	
7 Vinyl chloride	62	1.521	1.514	0.007	90	73362	4.00	4.30	
8 Butadiene	39	1.511	1.521	-0.010	96	80457	4.00	4.71	
10 Bromomethane	94	1.739	1.746	-0.007	91	42101	4.00	4.29	
11 Chloroethane	64	1.771	1.781	-0.010	99	37481	4.00	4.41	
12 Dichlorofluoromethane	67	1.938	1.935	0.003	97	80976	4.00	4.13	
13 Pentane	43	1.989	1.986	0.003	98	56336	4.00	3.91	
14 Trichlorofluoromethane	101	1.980	1.993	-0.013	84	74233	4.00	4.38	
17 1,2-Dichloro-1,1,2-trifluoroetha	67	2.172	2.172	0.000	83	49054	4.00	4.24	
16 Ethanol	45	2.230	2.220	0.010	28	73163	250.0	268.9	M
18 Acrolein	56	2.249	2.249	0.000	99	151814	40.0	45.6	M
19 1,1-Dichloroethene	96	2.333	2.339	-0.006	96	33065	4.00	4.28	
20 Acetone	58	2.381	2.368	0.013	55	17901	8.00	9.62	M
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.381	2.374	0.007	89	33938	4.00	4.12	
23 Isopropyl alcohol	45	2.471	2.464	0.007	53	154084	80.0	76.4	M
22 Iodomethane	142	2.477	2.468	0.009	99	48591	4.00	4.14	
24 Carbon disulfide	76	2.538	2.538	0.000	98	98015	4.00	4.21	
25 3-Chloro-1-propene	41	2.641	2.641	0.000	91	53799	4.00	3.92	
27 Methyl acetate	43	2.663	2.654	0.009	22	39819	4.00	3.55	M
28 Methylene Chloride	84	2.753	2.744	0.009	91	37274	4.00	4.32	
* 29 t-Butyl alcohol-d10 (IS)	65	2.849	2.849	0.000	89	723545	250.0	250.0	
30 2-Methyl-2-propanol	59	2.910	2.907	0.003	72	265023	80.0	79.8	M
31 Acrylonitrile	53	2.978	2.965	0.013	89	61415	10.0	10.3	
33 trans-1,2-Dichloroethene	96	2.994	2.994	0.000	97	30884	4.00	4.01	
32 Methyl tert-butyl ether	73	3.023	3.000	0.023	69	113058	4.00	4.25	M
34 Hexane	57	3.260	3.251	0.010	92	43366	4.00	3.85	
35 1,1-Dichloroethane	63	3.382	3.382	0.000	96	59832	4.00	4.21	
37 Isopropyl ether	45	3.446	3.453	-0.007	96	114083	4.00	4.01	
38 2-Chloro-1,3-butadiene	53	3.475	3.472	0.003	94	55362	4.00	4.21	

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	3.802	3.793	0.009	98	108727	4.00	4.03	
40 cis-1,2-Dichloroethene	96	3.934	3.931	0.003	87	32746	4.00	3.91	
42 2,2-Dichloropropane	77	3.950	3.950	0.000	84	60297	4.00	4.27	
41 2-Butanone (MEK)	43	3.963	3.950	0.013	95	77336	8.00	9.07	M
44 Propionitrile	54	4.008	4.011	-0.003	98	217179	80.0	76.8	
45 Methacrylonitrile	67	4.152	4.146	0.006	92	216800	40.0	39.9	
46 Chlorobromomethane	128	4.165	4.168	-0.003	70	15413	4.00	3.96	M
47 Tetrahydrofuran	71	4.207	4.213	-0.006	64	43039	20.0	19.6	
48 Chloroform	83	4.239	4.245	-0.006	92	56812	4.00	4.28	
$ 50 Dibromofluoromethane (Surr)	113	4.399	4.403	-0.003	93	314484	50.0	50.3	
51 1,1,1-Trichloroethane	97	4.428	4.438	-0.010	96	51458	4.00	3.92	
52 Cyclohexane	56	4.496	4.499	-0.003	92	67617	4.00	3.93	
53 1,1-Dichloropropene	75	4.592	4.589	0.003	95	48799	4.00	4.30	
54 Carbon tetrachloride	117	4.601	4.595	0.006	92	40524	4.00	3.98	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	4.730	4.733	-0.003	80	81804	50.0	48.8	
55 Isobutyl alcohol	41	4.752	4.739	0.013	65	193349	200.0	200.9	M
57 Benzene	78	4.794	4.797	-0.003	96	130130	4.00	3.93	
58 1,2-Dichloroethane	62	4.807	4.807	0.000	58	39851	4.00	3.91	
60 Tert-amyl methyl ether	73	4.922	4.919	0.003	99	102491	4.00	3.95	
* 61 Fluorobenzene (IS)	96	5.076	5.073	0.003	98	1351563	50.0	50.0	
62 n-Heptane	43	5.080	5.083	-0.003	38	40584	4.00	3.93	
63 n-Butanol	56	5.394	5.394	0.000	88	290836	350.0	349.8	
64 Trichloroethene	95	5.455	5.449	0.006	98	32958	4.00	4.10	
65 Methylcyclohexane	83	5.660	5.664	-0.004	89	56658	4.00	4.14	
66 1,2-Dichloropropane	63	5.670	5.683	-0.013	93	34847	4.00	3.99	
67 2-ethoxy-2-methyl butane	87	5.734	5.725	0.009	93	46673	4.00	3.94	
68 Dibromomethane	93	5.789	5.795	-0.006	94	19842	4.00	3.86	
69 Methyl methacrylate	69	5.821	5.814	0.007	95	33974	4.00	4.03	
70 1,4-Dioxane	88	5.818	5.818	0.000	46	40211	200.0	205.7	M
72 Dichlorobromomethane	83	5.965	5.968	-0.003	97	38924	4.00	4.05	
S 73 1,2-Dichloroethene, Total	100				0			7.92	
74 2-Nitropropane	41	6.212	6.206	0.006	99	79584	20.0	19.7	
75 2-Chloroethyl vinyl ether	63	6.302	6.296	0.006	91	23015	4.00	3.60	
77 cis-1,3-Dichloropropene	75	6.443	6.447	-0.004	93	49110	4.00	3.89	
78 4-Methyl-2-pentanone (MIBK)	43	6.633	6.626	0.007	97	136543	8.00	8.31	
$ 79 Toluene-d8 (Surr)	98	6.735	6.739	-0.004	93	1332369	50.0	50.5	
80 Toluene	92	6.812	6.812	0.000	97	79139	4.00	4.13	
81 trans-1,3-Dichloropropene	75	7.056	7.056	0.000	94	43525	4.00	3.90	
83 Ethyl methacrylate	69	7.181	7.175	0.006	92	51839	4.00	4.03	
84 1,1,2-Trichloroethane	97	7.252	7.252	0.000	87	30642	4.00	4.31	
86 Tetrachloroethene	166	7.400	7.400	0.000	95	30449	4.00	4.15	
87 1,3-Dichloropropane	76	7.422	7.422	0.000	91	47561	4.00	3.99	
90 2-Hexanone	43	7.528	7.525	0.003	96	96617	8.00	8.90	
91 Chlorodibromomethane	129	7.647	7.647	0.000	90	26211	4.00	3.89	
93 Ethylene Dibromide	107	7.759	7.749	0.010	99	27871	4.00	3.93	
* 94 Chlorobenzene-d5 (IS)	117	8.195	8.192	0.003	87	997359	50.0	50.0	
95 1-Chlorohexane	91	8.211	8.215	-0.004	95	44121	4.00	4.27	
96 Chlorobenzene	112	8.221	8.218	0.003	90	76605	4.00	3.93	
97 1,1,1,2-Tetrachloroethane	131	8.288	8.298	-0.010	95	28341	4.00	3.87	
98 Ethylbenzene	91	8.324	8.324	0.000	98	148757	4.00	4.11	
99 m-Xylene & p-Xylene	106	8.430	8.430	0.000	99	111842	8.00	8.23	
100 o-Xylene	106	8.770	8.767	0.003	97	58102	4.00	4.06	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
101 Styrene	104	8.783	8.779	0.004	95	88777	4.00	3.98	
102 Bromoform	173	8.921	8.921	0.000	95	19531	4.00	3.87	
103 Isopropylbenzene	105	9.075	9.075	0.000	96	148971	4.00	4.15	
105 Cyclohexanone	55	9.142	9.142	0.000	94	175227	200.0	200.6	
$ 106 4-Bromofluorobenzene (Surr)	95	9.190	9.187	0.003	87	513121	50.0	49.9	
107 Bromobenzene	156	9.306	9.306	0.000	94	31284	4.00	3.95	
108 1,1,2,2-Tetrachloroethane	83	9.306	9.309	-0.003	94	53756	4.00	4.05	
109 1,2,3-Trichloropropane	110	9.335	9.338	-0.003	83	15240	4.00	4.00	
110 trans-1,4-Dichloro-2-butene	53	9.351	9.351	0.000	94	170952	40.0	42.0	
111 N-Propylbenzene	91	9.399	9.399	0.000	99	171056	4.00	4.26	
112 2-Chlorotoluene	126	9.463	9.460	0.003	96	33255	4.00	4.08	
113 1,3,5-Trimethylbenzene	105	9.534	9.534	0.000	94	121662	4.00	4.14	
114 4-Chlorotoluene	126	9.543	9.543	0.000	99	32000	4.00	4.00	
116 tert-Butylbenzene	134	9.781	9.781	0.000	94	21444	4.00	3.97	
118 1,2,4-Trimethylbenzene	105	9.816	9.813	0.003	98	122679	4.00	4.07	
119 sec-Butylbenzene	105	9.941	9.941	0.000	94	139761	4.00	4.14	
141 1,3-Dichlorobenzene	146	10.018	10.018	0.000	97	61499	4.00	4.13	
143 4-Isopropyltoluene	119	10.047	10.047	0.000	97	118865	4.00	4.14	
S 142 1,3-Dichloropropene, Total	100				0			7.79	
* 144 1,4-Dichlorobenzene-d4	152	10.066	10.063	0.003	96	545599	50.0	50.0	
145 1,4-Dichlorobenzene	146	10.079	10.082	-0.003	94	63991	4.00	4.12	
146 1,2,3-Trimethylbenzene	105	10.121	10.121	0.000	99	125771	4.00	4.04	
147 Benzyl chloride	91	10.182	10.179	0.003	99	104901	4.00	4.04	
148 1,3-Diethylbenzene	119	10.262	10.259	0.003	95	67018	4.00	3.88	
149 p-Diethylbenzene	119	10.320	10.320	0.000	93	74267	4.00	4.25	
150 n-Butylbenzene	92	10.339	10.336	0.003	98	61467	4.00	4.29	
151 1,2-Dichlorobenzene	146	10.352	10.345	0.007	95	63599	4.00	4.16	
152 o-diethylbenzene	119	10.406	10.403	0.003	95	61740	4.00	4.26	
153 1,2-Dibromo-3-Chloropropane	75	10.881	10.881	0.000	80	15788	4.00	4.24	
154 1,3,5-Trichlorobenzene	180	11.029	11.029	0.000	96	42889	4.00	4.16	
S 155 Xylenes, Total	106				0			12.3	
156 1,2,4-Trichlorobenzene	180	11.436	11.440	-0.004	96	42837	4.00	4.18	
157 Hexachlorobutadiene	225	11.549	11.549	0.000	95	15438	4.00	4.33	
158 Naphthalene	128	11.600	11.600	0.000	97	192212	4.00	4.26	
159 1,2,3-Trichlorobenzene	180	11.760	11.757	0.003	95	43943	4.00	4.11	
160 2-Methylnaphthalene	142	12.322	12.322	0.000	92	102086	4.00	4.15	
S 172 Total Diethylbenzene	1				0			12.4	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_VOC#1_00094	Amount Added:	4.00	Units: uL	
MSV_CCV_CYC_00004	Amount Added:	32.00	Units: uL	
MSV_CCV_VOC#3_00094	Amount Added:	3.20	Units: uL	
MSV_CCV_2CEVE_00090	Amount Added:	4.00	Units: uL	
MSV_CCV_ETOH_00003	Amount Added:	20.00	Units: uL	
MSV_CCV_GASES_00292	Amount Added:	2.00	Units: uL	
MSV_V_VOA2_00163	Amount Added:	12.00	Units: uL	
MSV_Cent_ISSS_00013	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 29-Oct-2022 01:15:03 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X15.D

Injection Date: 27-Oct-2022 17:26:30 Instrument ID: 9137 Operator ID: lcp00895

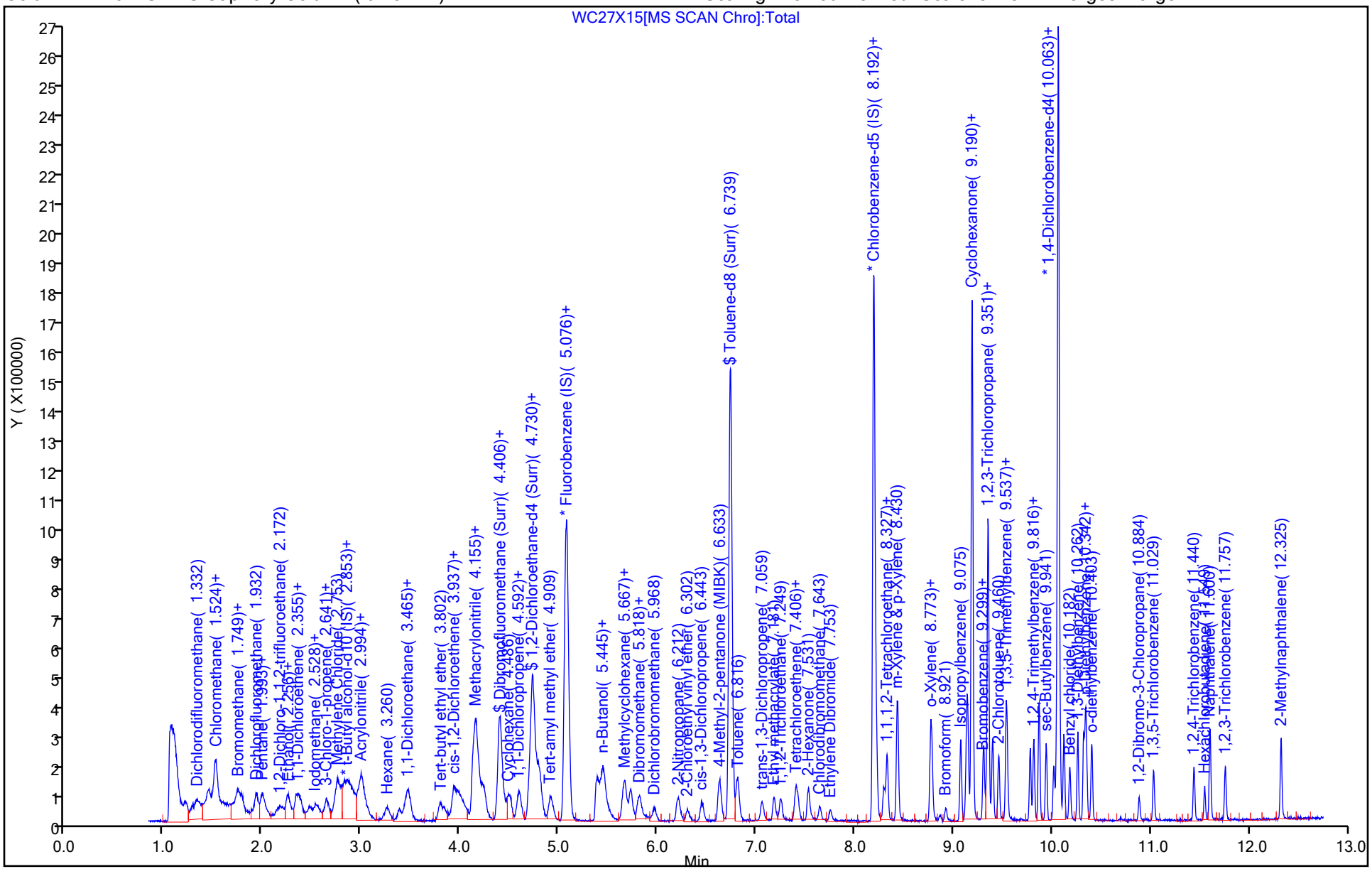
Lims ID: IC v4 Worklist Smp#: 16

Client ID:

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

Method: MSVoa_9137 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

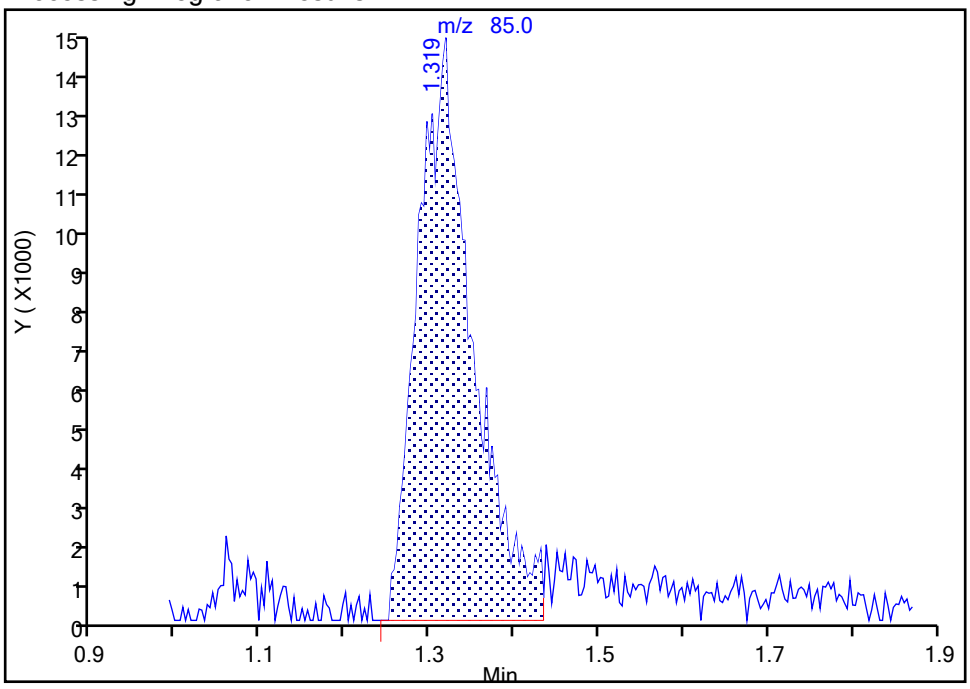
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X15.D
Injection Date: 27-Oct-2022 17:26:30 Instrument ID: 9137
Lims ID: IC v4
Client ID:
Operator ID: lcp00895 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

5 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

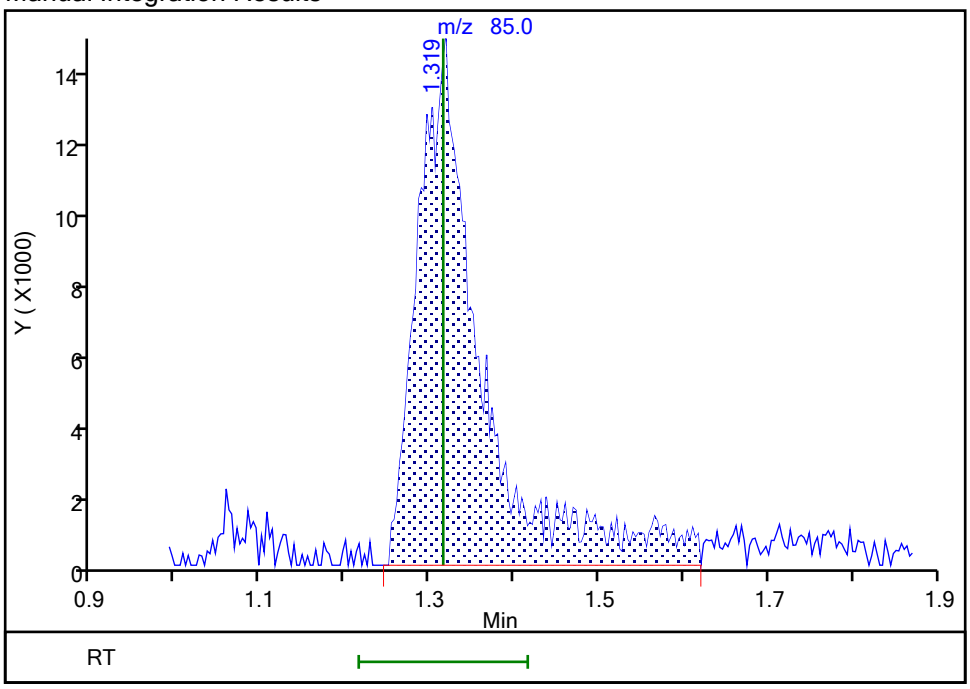
Processing Integration Results

RT: 1.32
Area: 66351
Amount: 4.084696
Amount Units: ug/l



Manual Integration Results

RT: 1.32
Area: 77064
Amount: 4.468459
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:44:53
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

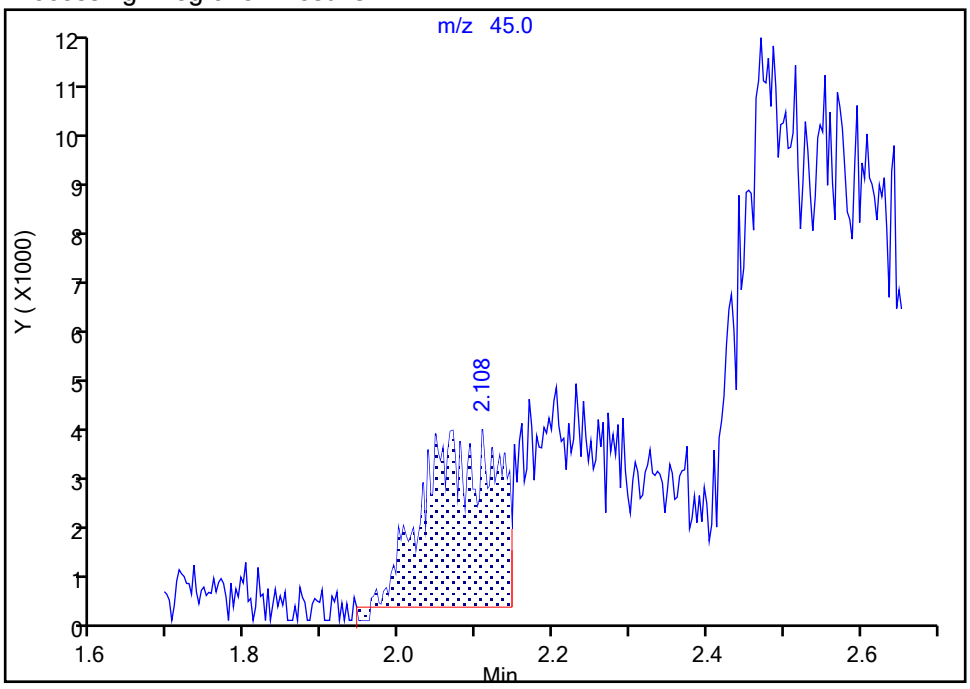
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X15.D
Injection Date: 27-Oct-2022 17:26:30 Instrument ID: 9137
Lims ID: IC v4
Client ID:
Operator ID: lcp00895 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

16 Ethanol, CAS: 64-17-5

Signal: 1

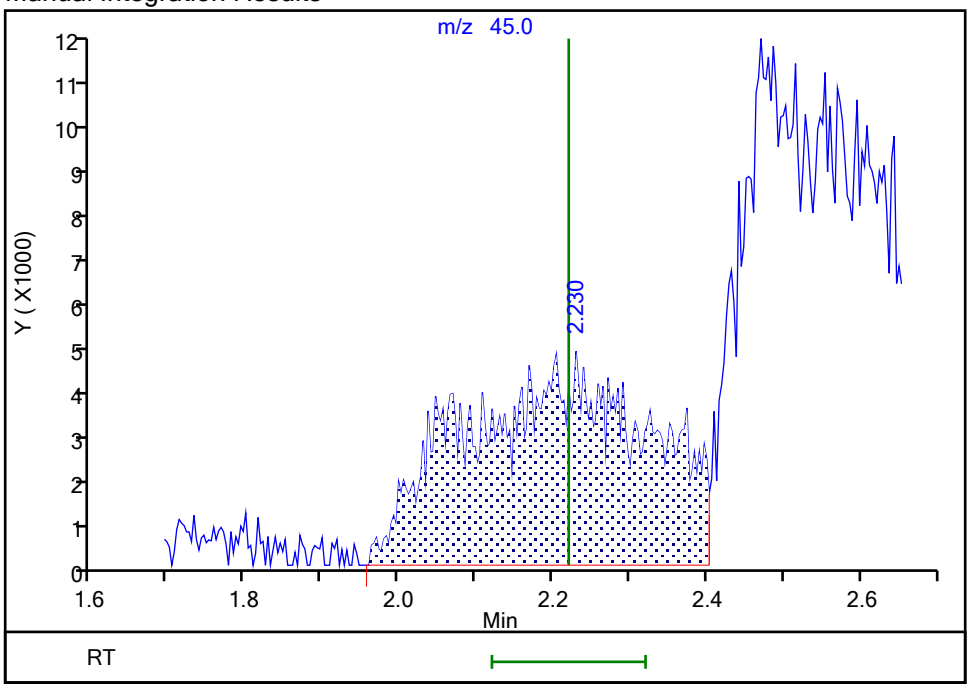
Processing Integration Results

RT: 2.11
Area: 21857
Amount: 102.5786
Amount Units: ug/l



Manual Integration Results

RT: 2.23
Area: 73163
Amount: 268.8609
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:46:01
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

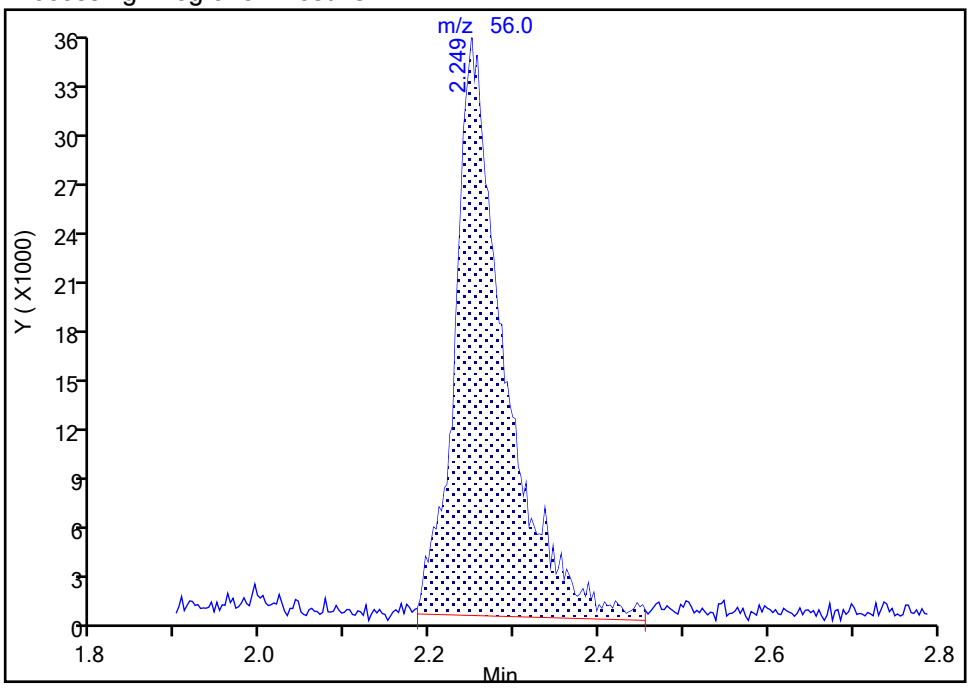
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X15.D
Injection Date: 27-Oct-2022 17:26:30 Instrument ID: 9137
Lims ID: IC v4
Client ID:
Operator ID: lcp00895 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

18 Acrolein, CAS: 107-02-8

Signal: 1

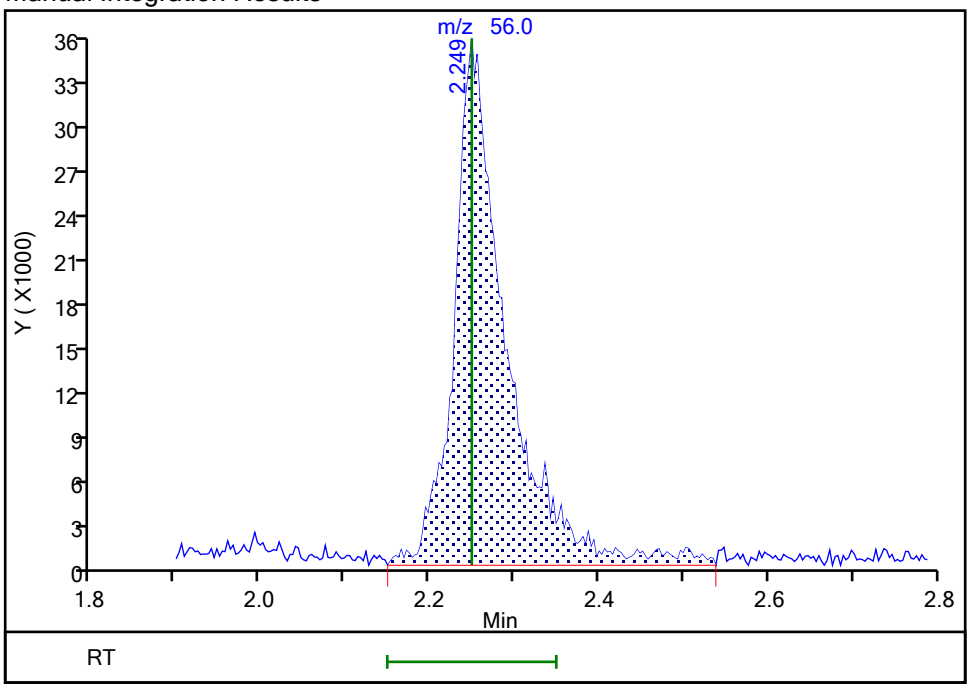
Processing Integration Results

RT: 2.25
Area: 144003
Amount: 40.579122
Amount Units: ug/l



Manual Integration Results

RT: 2.25
Area: 151814
Amount: 45.572030
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:46:09
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

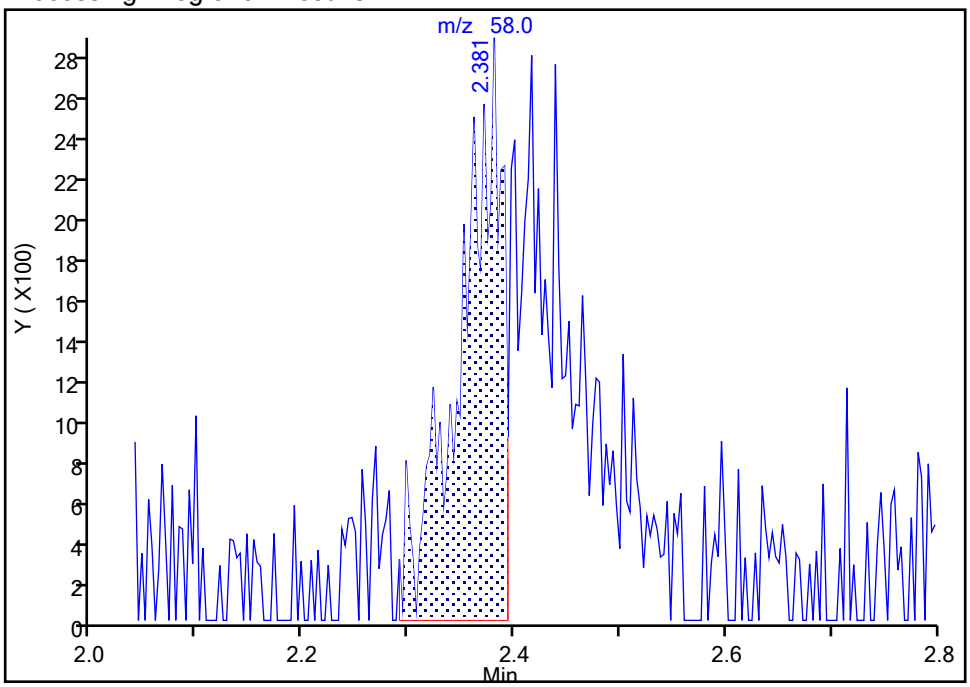
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X15.D
Injection Date: 27-Oct-2022 17:26:30 Instrument ID: 9137
Lims ID: IC v4
Client ID:
Operator ID: lcp00895 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

20 Acetone, CAS: 67-64-1

Signal: 1

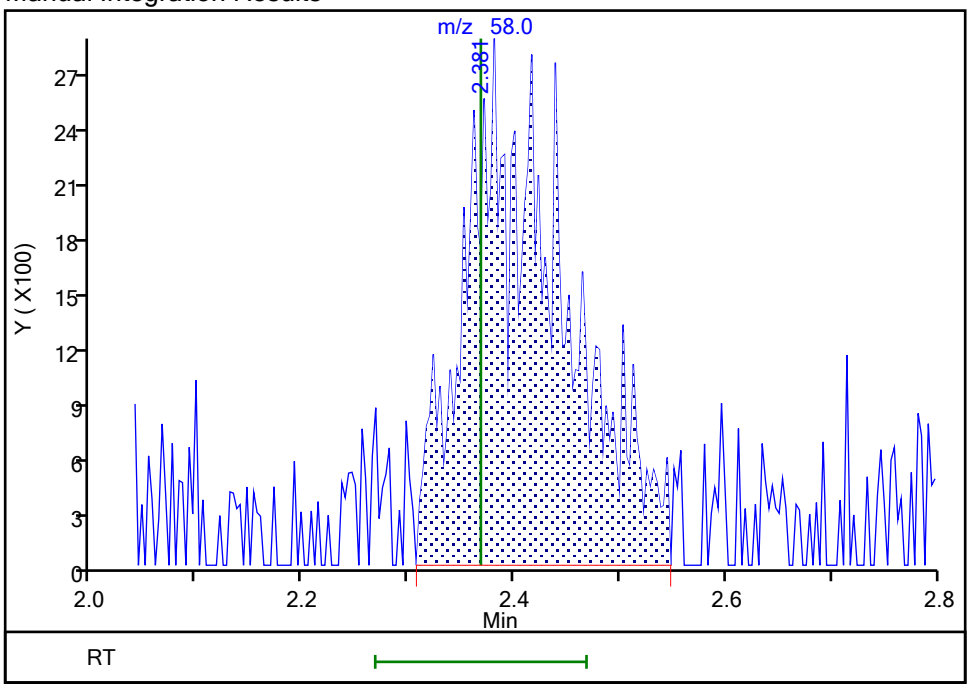
Processing Integration Results

RT: 2.38
Area: 7767
Amount: 4.351940
Amount Units: ug/l



Manual Integration Results

RT: 2.38
Area: 17901
Amount: 9.623132
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 01:06:43
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

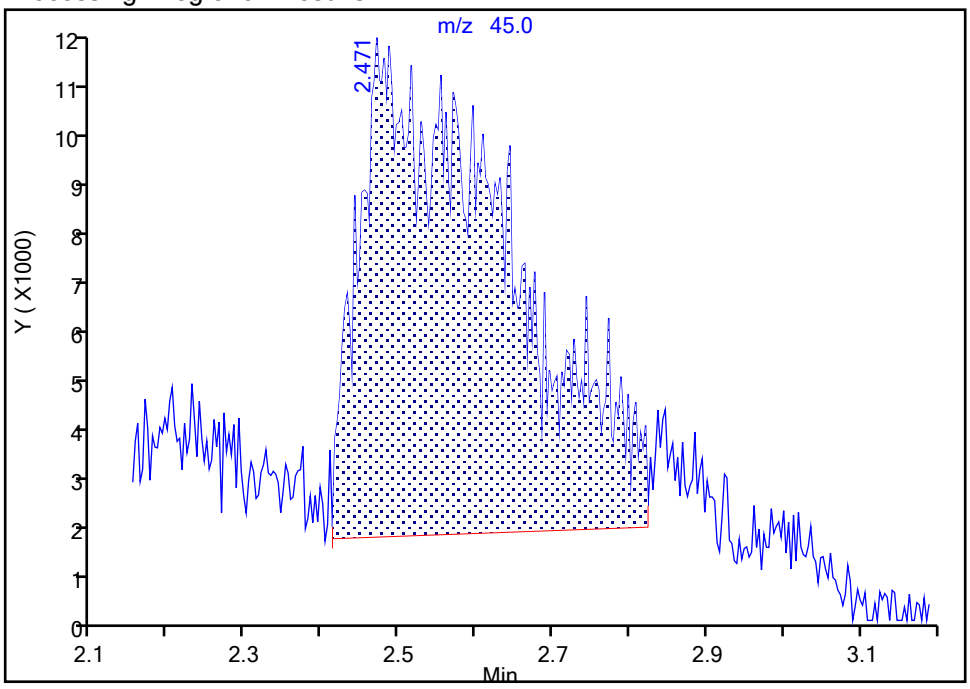
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X15.D
Injection Date: 27-Oct-2022 17:26:30 Instrument ID: 9137
Lims ID: IC v4
Client ID:
Operator ID: lcp00895 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

23 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

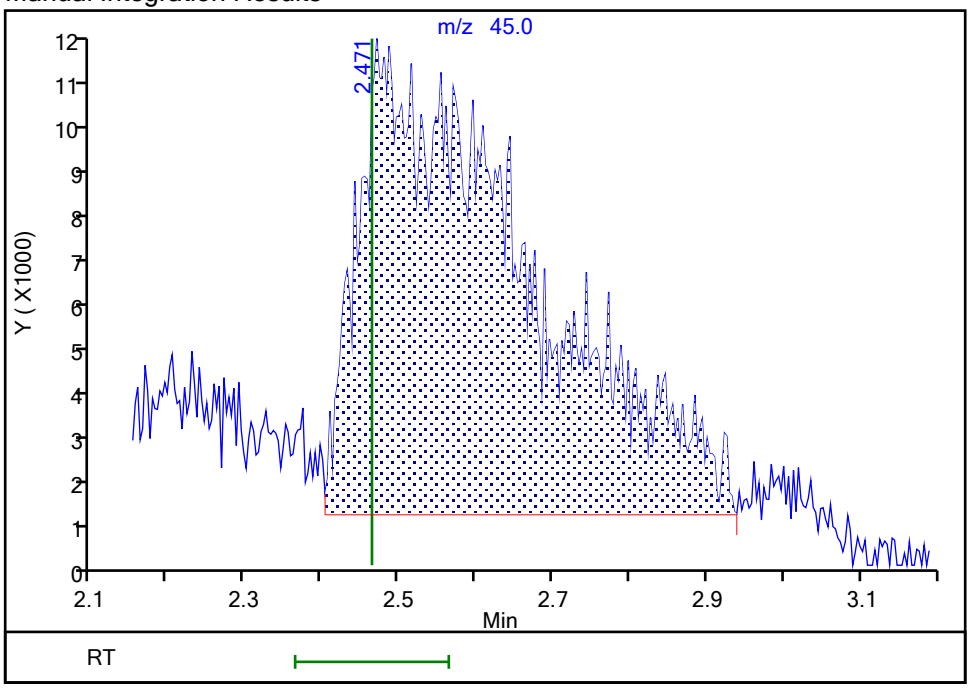
Processing Integration Results

RT: 2.47
Area: 126941
Amount: 66.229361
Amount Units: ug/l



Manual Integration Results

RT: 2.47
Area: 154084
Amount: 76.364999
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 01:01:35
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

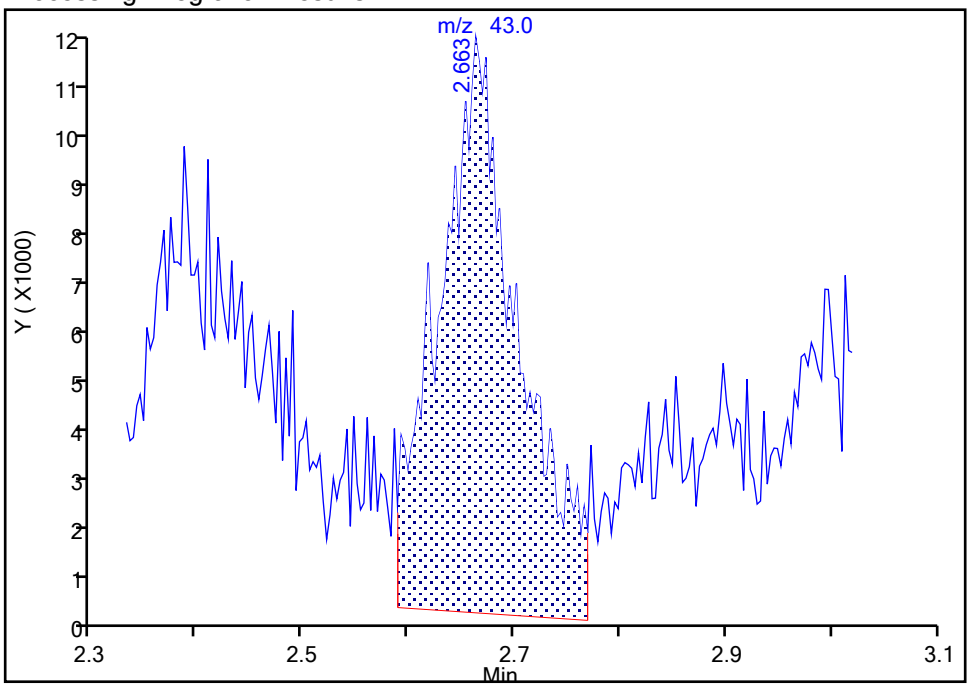
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X15.D
Injection Date: 27-Oct-2022 17:26:30 Instrument ID: 9137
Lims ID: IC v4
Client ID:
Operator ID: lcp00895 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

27 Methyl acetate, CAS: 79-20-9

Signal: 1

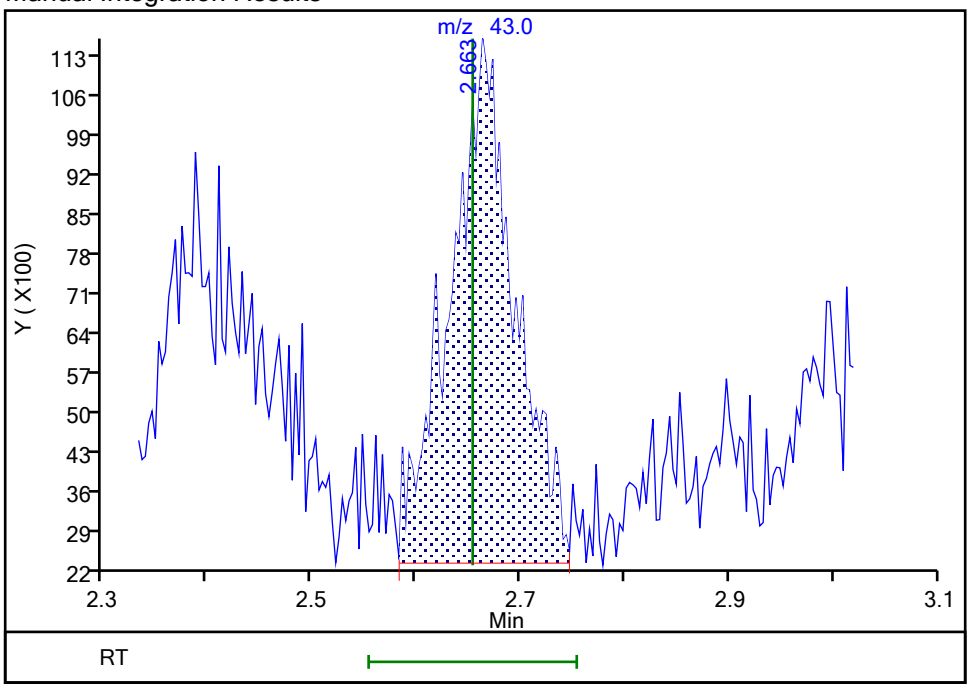
Processing Integration Results

RT: 2.66
Area: 55247
Amount: 4.966464
Amount Units: ug/l



Manual Integration Results

RT: 2.66
Area: 39819
Amount: 3.550599
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:46:52
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

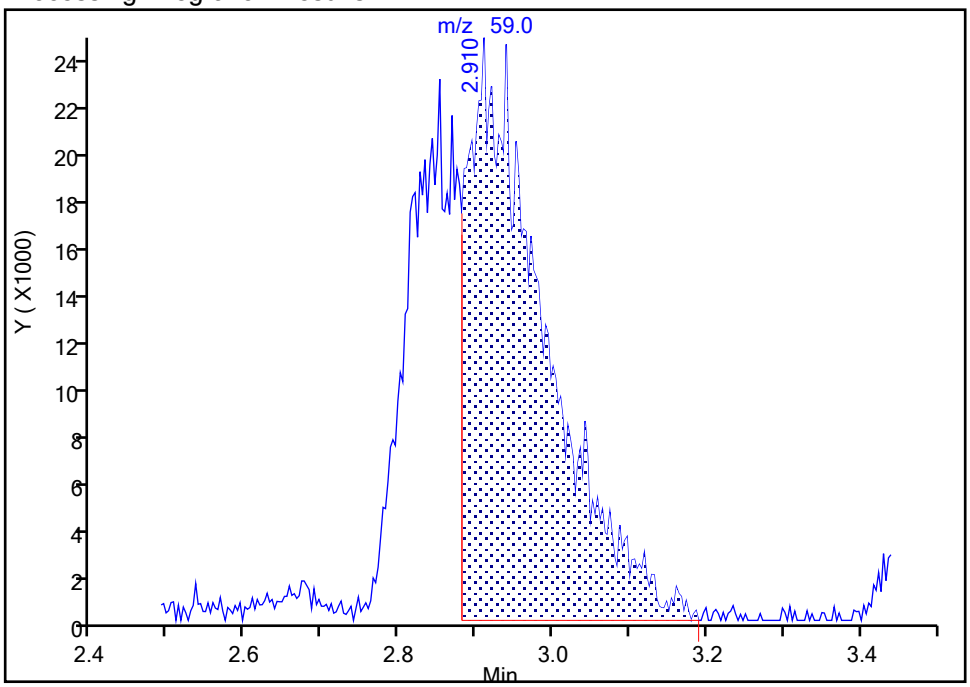
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X15.D
Injection Date: 27-Oct-2022 17:26:30 Instrument ID: 9137
Lims ID: IC v4
Client ID:
Operator ID: lcp00895 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

30 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

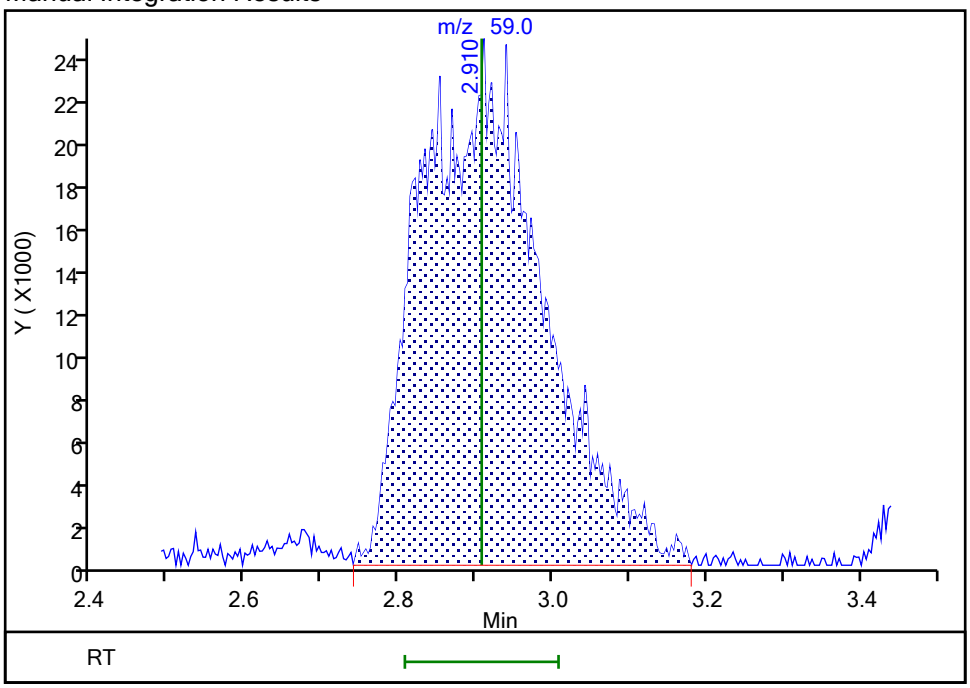
Processing Integration Results

RT: 2.91
Area: 169104
Amount: 56.503735
Amount Units: ug/l



Manual Integration Results

RT: 2.91
Area: 265023
Amount: 79.759919
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:47:00
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

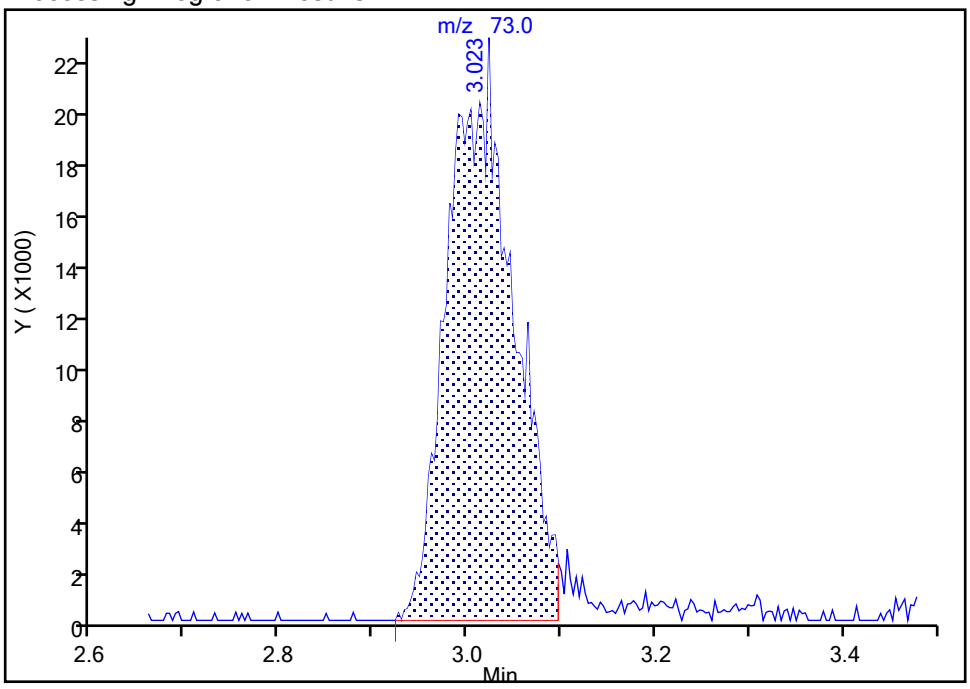
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X15.D
Injection Date: 27-Oct-2022 17:26:30 Instrument ID: 9137
Lims ID: IC v4
Client ID:
Operator ID: lcp00895 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

32 Methyl tert-butyl ether, CAS: 1634-04-4

Signal: 1

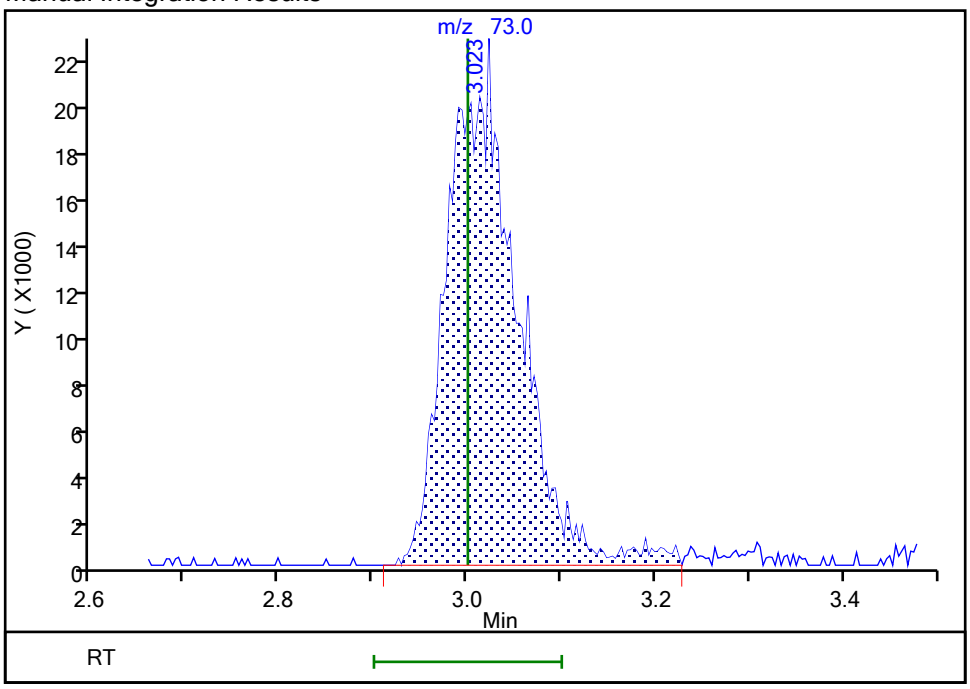
Processing Integration Results

RT: 3.02
Area: 107058
Amount: 4.295750
Amount Units: ug/l



Manual Integration Results

RT: 3.02
Area: 113058
Amount: 4.246652
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:47:07
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

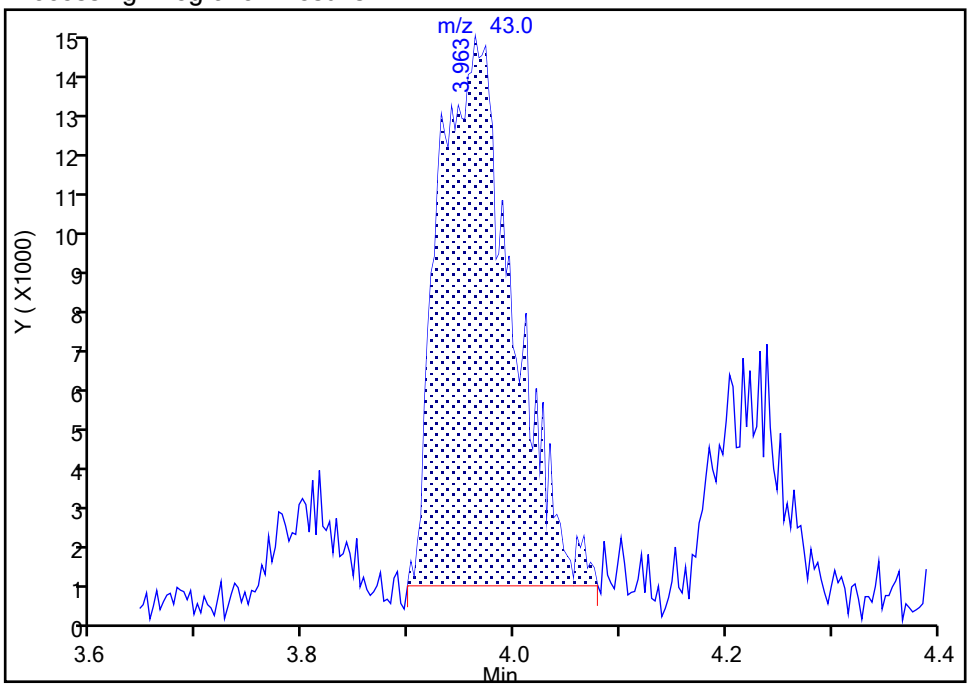
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X15.D
Injection Date: 27-Oct-2022 17:26:30 Instrument ID: 9137
Lims ID: IC v4
Client ID:
Operator ID: lcp00895 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

41 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

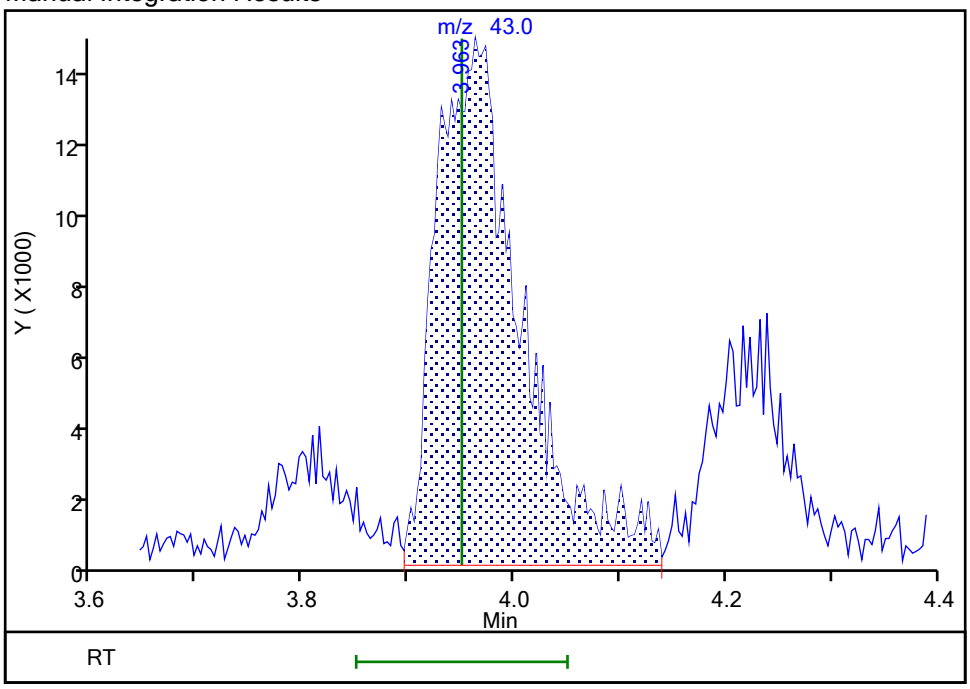
Processing Integration Results

RT: 3.96
Area: 62947
Amount: 8.026601
Amount Units: ug/l



Manual Integration Results

RT: 3.96
Area: 77336
Amount: 9.067372
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:47:20
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

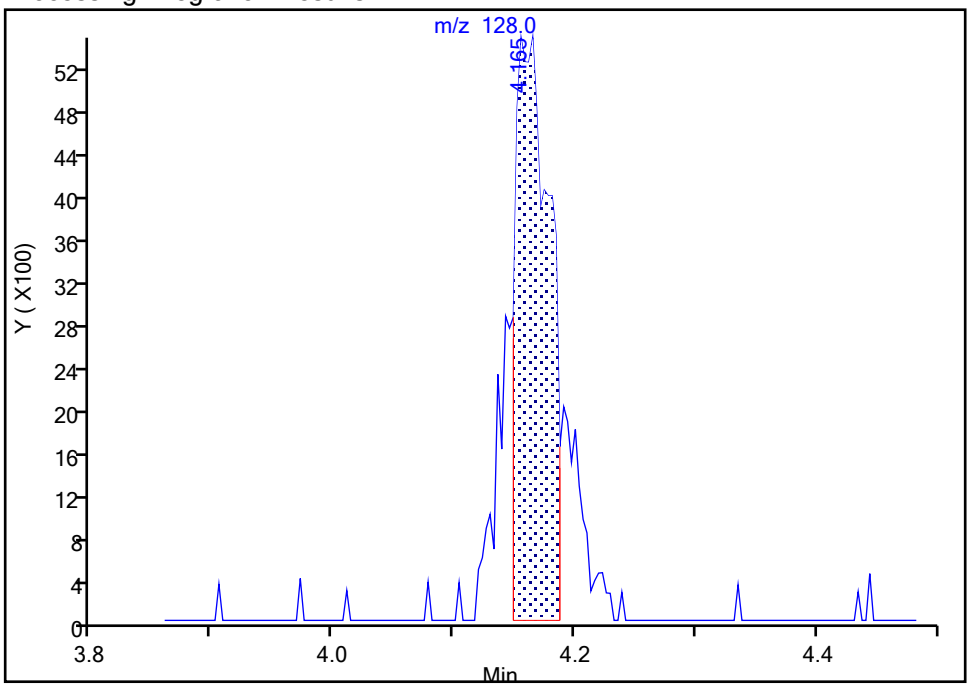
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X15.D
Injection Date: 27-Oct-2022 17:26:30 Instrument ID: 9137
Lims ID: IC v4
Client ID:
Operator ID: lcp00895 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

46 Chlorobromomethane, CAS: 74-97-5

Signal: 1

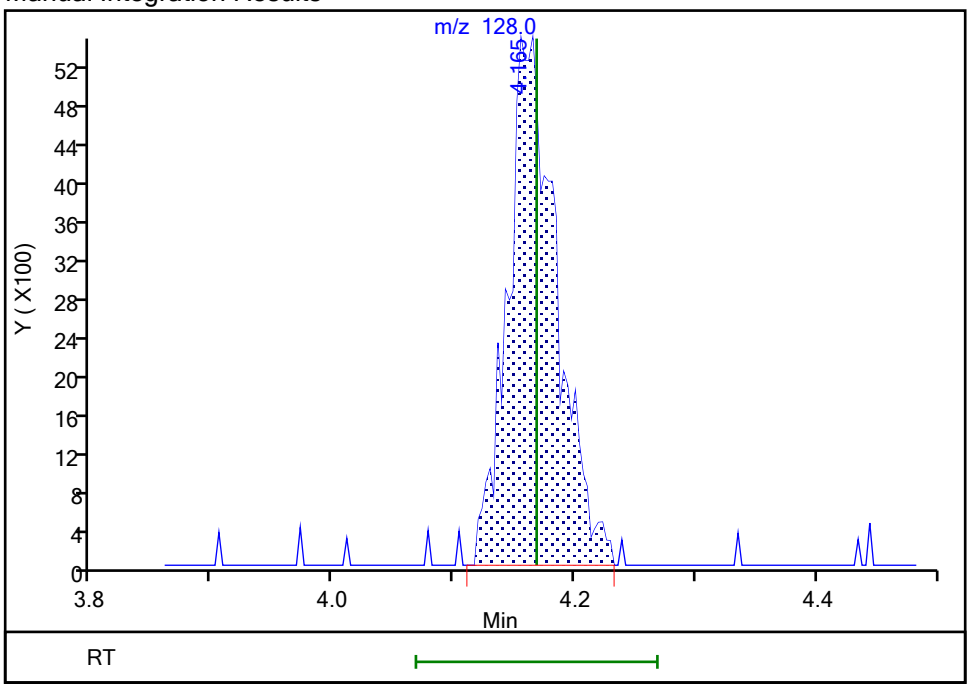
Processing Integration Results

RT: 4.17
Area: 10550
Amount: 3.040899
Amount Units: ug/l



Manual Integration Results

RT: 4.17
Area: 15413
Amount: 3.955291
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:47:30
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

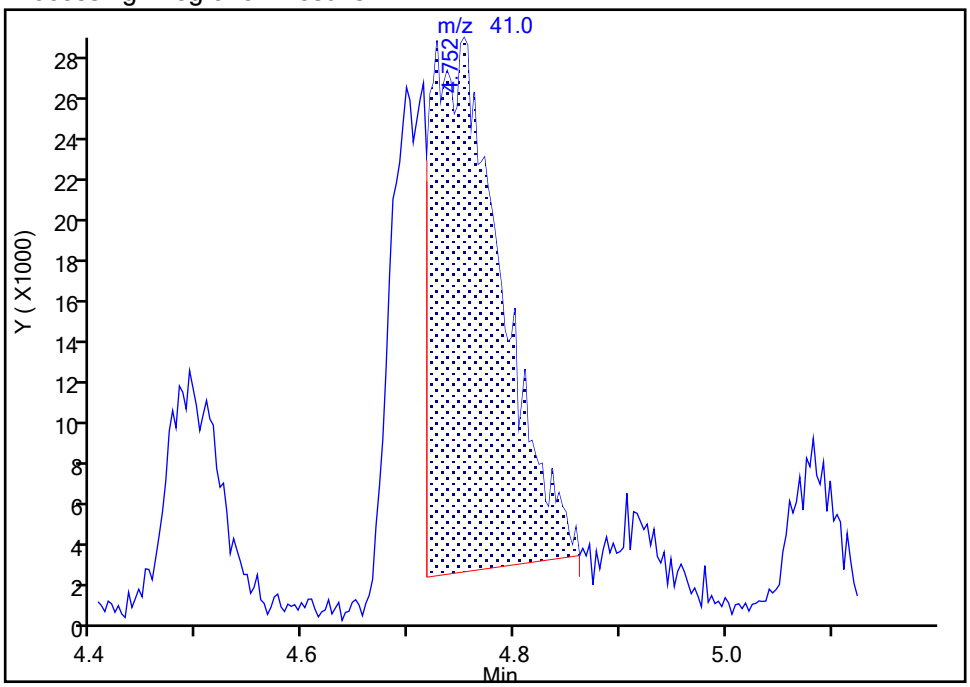
Data File:	\\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X15.D				
Injection Date:	27-Oct-2022 17:26:30	Instrument ID:	9137		
Lims ID:	IC v4				
Client ID:					
Operator ID:	lcp00895	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

55 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

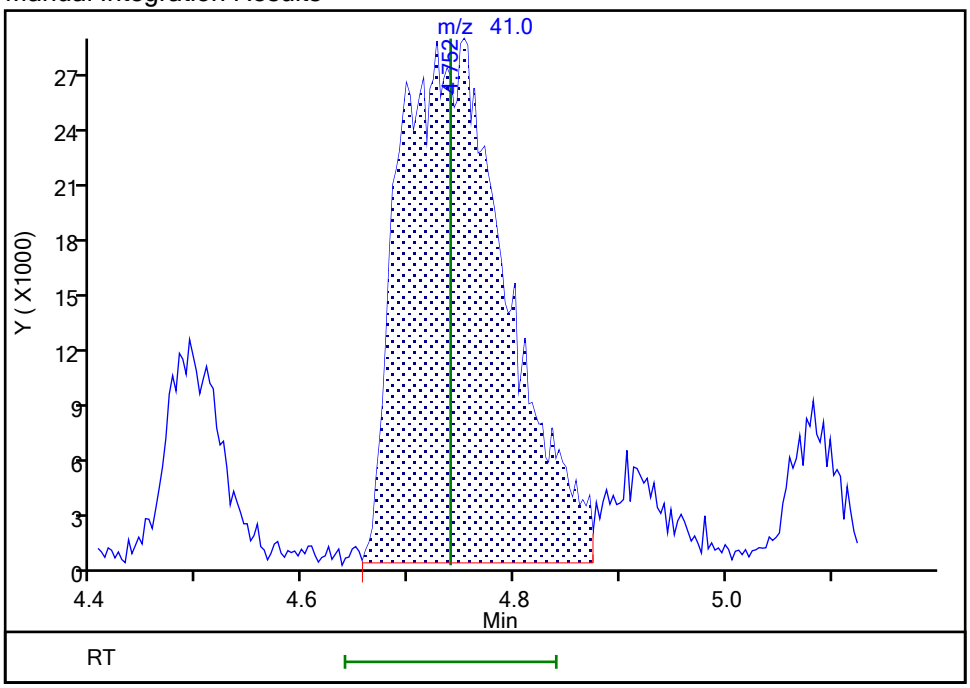
Processing Integration Results

RT: 4.75
Area: 115375
Amount: 127.2684
Amount Units: ug/l



Manual Integration Results

RT: 4.75
Area: 193349
Amount: 200.9354
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:47:44
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

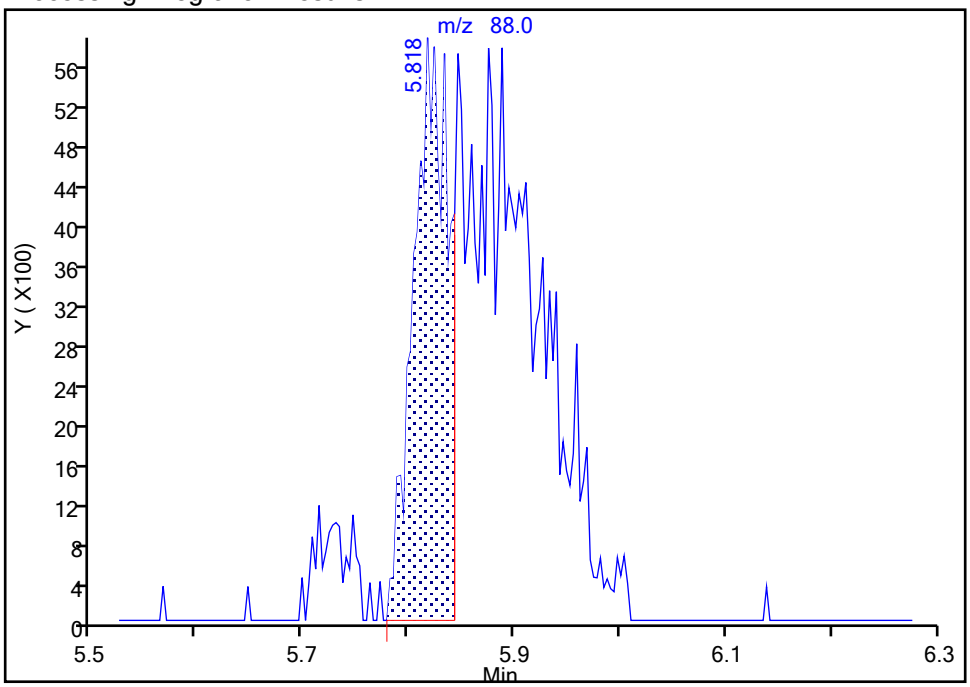
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X15.D
Injection Date: 27-Oct-2022 17:26:30 Instrument ID: 9137
Lims ID: IC v4
Client ID:
Operator ID: lcp00895 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

70 1,4-Dioxane, CAS: 123-91-1

Signal: 1

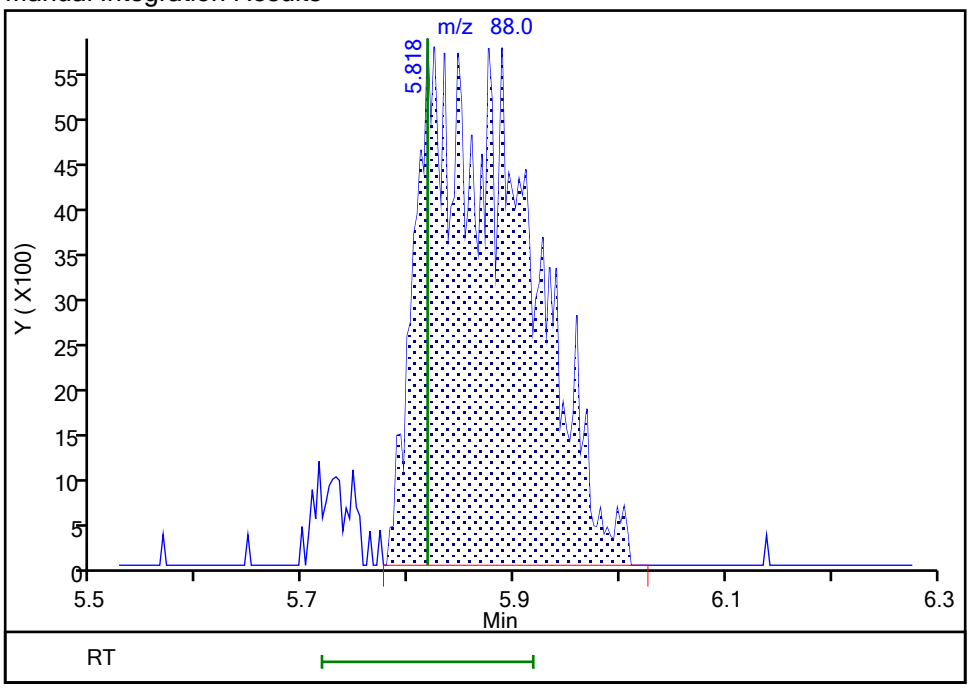
Processing Integration Results

RT: 5.82
Area: 13280
Amount: 81.084873
Amount Units: ug/l



Manual Integration Results

RT: 5.82
Area: 40211
Amount: 205.6716
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:47:56
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D
Lims ID: IC v1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 27-Oct-2022 17:46:30 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0069757-017
Misc. Info.: IC V1
Operator ID: lcp00895 Instrument ID: 9137
Sublist: chrom-MSVoa_9137*sub28

Method: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 29-Oct-2022 01:15:08 Calib Date: 27-Oct-2022 17:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1618

First Level Reviewer: K4WN Date: 29-Oct-2022 00:54:21

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 Dichlorodifluoromethane	85	1.296	1.316	-0.020	17	20914	1.00	1.17	M
6 Chloromethane	50	1.444	1.447	-0.003	48	19586	1.00	1.06	
7 Vinyl chloride	62	1.518	1.514	0.004	89	17191	1.00	0.9759	
8 Butadiene	39	1.511	1.521	-0.010	94	18694	1.00	1.06	M
10 Bromomethane	94	1.739	1.746	-0.007	54	11365	1.00	1.12	M
11 Chloroethane	64	1.774	1.781	-0.007	31	8298	1.00	0.9448	M
12 Dichlorofluoromethane	67	1.928	1.935	-0.007	94	21833	1.00	1.08	
13 Pentane	43	1.986	1.986	0.000	90	17647	1.00	1.19	M
14 Trichlorofluoromethane	101	1.983	1.993	-0.010	39	15397	1.00	0.8785	
17 1,2-Dichloro-1,1,2-trifluoroetha	67	2.175	2.172	0.003	49	14951	1.00	1.25	M
16 Ethanol	45	2.169	2.220	-0.051	50	17366	62.5	76.7	M
18 Acrolein	56	2.240	2.249	-0.009	91	42134	10.0	15.2	
19 1,1-Dichloroethene	96	2.326	2.339	-0.013	44	8525	1.00	1.07	M
20 Acetone	58	2.426	2.368	0.058	76	5477	2.00	3.54	M
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.374	2.374	0.000	32	7435	1.00	0.8747	
23 Isopropyl alcohol	45	2.499	2.464	0.035	25	35061	20.0	20.9	M
22 Iodomethane	142	2.487	2.468	0.019	69	10919	1.00	0.9009	
24 Carbon disulfide	76	2.535	2.538	-0.003	95	22167	1.00	0.9207	
25 3-Chloro-1-propene	41	2.634	2.641	-0.007	83	15505	1.00	1.09	M
27 Methyl acetate	43	2.654	2.654	0.000	91	12896	1.00	1.11	M
28 Methylene Chloride	84	2.756	2.744	0.012	81	9608	1.00	1.08	
* 29 t-Butyl alcohol-d10 (IS)	65	2.846	2.849	-0.003	69	601720	250.0	250.0	
30 2-Methyl-2-propanol	59	2.923	2.907	0.016	28	57249	20.0	20.7	M
31 Acrylonitrile	53	2.994	2.965	0.029	61	15870	2.50	2.57	
33 trans-1,2-Dichloroethene	96	3.003	2.994	0.009	90	7977	1.00	1.00	M
32 Methyl tert-butyl ether	73	3.003	3.000	0.003	73	26948	1.00	0.9798	M
34 Hexane	57	3.260	3.251	0.010	70	14910	1.00	1.28	
35 1,1-Dichloroethane	63	3.395	3.382	0.013	14	12967	1.00	0.8828	
37 Isopropyl ether	45	3.462	3.453	0.009	79	28318	1.00	0.9633	
38 2-Chloro-1,3-butadiene	53	3.475	3.472	0.003	42	12870	1.00	0.9485	

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	3.789	3.793	-0.004	93	26166	1.00	0.9386	M
40 cis-1,2-Dichloroethene	96	3.944	3.931	0.013	77	9240	1.00	1.07	
42 2,2-Dichloropropane	77	3.947	3.950	-0.003	69	14668	1.00	1.01	
41 2-Butanone (MEK)	43	3.979	3.950	0.029	20	21985	2.00	2.50	M
44 Propionitrile	54	4.008	4.011	-0.003	31	55301	20.0	23.5	M
45 Methacrylonitrile	67	4.159	4.146	0.012	93	56042	10.0	10.0	M
46 Chlorobromomethane	128	4.162	4.168	-0.006	41	4277	1.00	1.06	M
47 Tetrahydrofuran	71	4.226	4.213	0.013	47	10147	5.00	5.56	M
48 Chloroform	83	4.242	4.245	-0.003	73	14231	1.00	1.04	M
$ 50 Dibromofluoromethane (Surr)	113	4.396	4.403	-0.006	93	323109	50.0	50.0	
51 1,1,1-Trichloroethane	97	4.434	4.438	-0.004	35	13870	1.00	1.02	
52 Cyclohexane	56	4.492	4.499	-0.007	74	17907	1.00	1.01	
53 1,1-Dichloropropene	75	4.592	4.589	0.003	92	11046	1.00	0.9425	
54 Carbon tetrachloride	117	4.588	4.595	-0.007	74	9299	1.00	0.8833	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	4.733	4.733	0.000	70	86576	50.0	50.0	
55 Isobutyl alcohol	41	4.759	4.739	0.020	64	41794	50.0	52.2	
57 Benzene	78	4.794	4.797	-0.003	90	33663	1.00	0.9842	
58 1,2-Dichloroethane	62	4.810	4.807	0.003	47	10406	1.00	0.9879	
60 Tert-amyl methyl ether	73	4.906	4.919	-0.013	98	25189	1.00	0.9399	
* 61 Fluorobenzene (IS)	96	5.076	5.073	0.003	99	1396224	50.0	50.0	
62 n-Heptane	43	5.073	5.083	-0.010	42	12778	1.00	1.20	
63 n-Butanol	56	5.420	5.394	0.026	83	58349	87.5	84.4	
64 Trichloroethene	95	5.455	5.449	0.006	91	7798	1.00	0.9392	M
65 Methylcyclohexane	83	5.657	5.664	-0.007	76	12746	1.00	0.9015	M
66 1,2-Dichloropropane	63	5.680	5.683	-0.003	47	8775	1.00	0.9729	M
67 2-ethoxy-2-methyl butane	87	5.728	5.725	0.003	91	11409	1.00	0.9328	M
68 Dibromomethane	93	5.795	5.795	0.000	57	5886	1.00	1.11	
69 Methyl methacrylate	69	5.808	5.814	-0.006	57	9049	1.00	1.04	
70 1,4-Dioxane	88	5.840	5.818	0.022	36	6728	50.0	41.4	M
72 Dichlorobromomethane	83	5.972	5.968	0.004	62	9937	1.00	1.00	M
S 73 1,2-Dichloroethene, Total	100				0			2.07	
74 2-Nitropropane	41	6.209	6.206	0.003	87	19038	5.00	5.68	
75 2-Chloroethyl vinyl ether	63	6.315	6.296	0.019	47	6377	1.00	0.9654	
77 cis-1,3-Dichloropropene	75	6.453	6.447	0.006	94	11756	1.00	0.9017	
78 4-Methyl-2-pentanone (MIBK)	43	6.623	6.626	-0.003	94	35526	2.00	2.09	
$ 79 Toluene-d8 (Surr)	98	6.738	6.739	-0.001	93	1352577	50.0	50.4	
80 Toluene	92	6.812	6.812	0.000	94	17246	1.00	0.8846	
81 trans-1,3-Dichloropropene	75	7.056	7.056	0.000	90	11535	1.00	1.02	M
83 Ethyl methacrylate	69	7.185	7.175	0.009	69	11732	1.00	0.8979	
84 1,1,2-Trichloroethane	97	7.255	7.252	0.003	81	8219	1.00	1.14	M
86 Tetrachloroethene	166	7.393	7.400	-0.007	79	6556	1.00	0.8790	
87 1,3-Dichloropropane	76	7.428	7.422	0.006	88	12268	1.00	1.01	
90 2-Hexanone	43	7.534	7.525	0.009	98	20188	2.00	1.83	
91 Chlorodibromomethane	129	7.650	7.647	0.003	92	6609	1.00	0.9637	
93 Ethylene Dibromide	107	7.756	7.749	0.007	89	6724	1.00	0.9320	
* 94 Chlorobenzene-d5 (IS)	117	8.192	8.192	0.000	87	1014254	50.0	50.0	
95 1-Chlorohexane	91	8.208	8.215	-0.007	52	12082	1.00	1.15	
96 Chlorobenzene	112	8.215	8.218	-0.003	79	20459	1.00	1.03	
97 1,1,1,2-Tetrachloroethane	131	8.301	8.298	0.003	68	7418	1.00	1.00	
98 Ethylbenzene	91	8.330	8.324	0.006	98	34508	1.00	0.9386	
99 m-Xylene & p-Xylene	106	8.430	8.430	0.000	99	24880	2.00	1.80	
100 o-Xylene	106	8.773	8.767	0.006	96	13566	1.00	0.9320	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
101 Styrene	104	8.795	8.779	0.016	86	19915	1.00	0.8790	
102 Bromoform	173	8.927	8.921	0.006	96	4208	1.00	0.8204	
103 Isopropylbenzene	105	9.078	9.075	0.003	97	32048	1.00	0.8786	
105 Cyclohexanone	55	9.136	9.142	-0.006	92	32626	50.0	44.9	
$ 106 4-Bromofluorobenzene (Surr)	95	9.190	9.187	0.003	87	521176	50.0	49.8	
107 Bromobenzene	156	9.312	9.306	0.006	93	7484	1.00	0.9379	
108 1,1,2,2-Tetrachloroethane	83	9.309	9.309	0.000	93	13339	1.00	1.00	
109 1,2,3-Trichloropropane	110	9.344	9.338	0.006	75	4411	1.00	1.15	
110 trans-1,4-Dichloro-2-butene	53	9.354	9.351	0.003	95	38872	10.0	9.49	
111 N-Propylbenzene	91	9.399	9.399	0.000	99	37319	1.00	0.9240	
112 2-Chlorotoluene	126	9.460	9.460	0.000	96	7657	1.00	0.9334	
113 1,3,5-Trimethylbenzene	105	9.533	9.534	-0.001	94	26704	1.00	0.9034	M
114 4-Chlorotoluene	126	9.549	9.543	0.006	96	8308	1.00	1.03	
116 tert-Butylbenzene	134	9.781	9.781	-0.001	93	4897	1.00	0.9014	
118 1,2,4-Trimethylbenzene	105	9.816	9.813	0.003	95	28489	1.00	0.9399	
119 sec-Butylbenzene	105	9.941	9.941	0.000	94	31140	1.00	0.9164	
141 1,3-Dichlorobenzene	146	10.018	10.018	0.000	98	14812	1.00	0.9890	
143 4-Isopropyltoluene	119	10.050	10.047	0.003	95	26008	1.00	0.9003	
S 142 1,3-Dichloropropene, Total	100				0			1.92	
* 144 1,4-Dichlorobenzene-d4	152	10.063	10.063	0.000	97	549112	50.0	50.0	
145 1,4-Dichlorobenzene	146	10.085	10.082	0.003	94	16162	1.00	1.03	
146 1,2,3-Trimethylbenzene	105	10.124	10.121	0.003	97	28215	1.00	0.9004	
147 Benzyl chloride	91	10.185	10.179	0.006	97	24604	1.00	0.9422	
148 1,3-Diethylbenzene	119	10.262	10.259	0.003	93	16672	1.00	0.9580	
149 p-Diethylbenzene	119	10.323	10.320	0.003	94	15252	1.00	0.8667	
150 n-Butylbenzene	92	10.339	10.336	0.003	98	12564	1.00	0.8713	
151 1,2-Dichlorobenzene	146	10.352	10.345	0.007	94	13940	1.00	0.9061	
152 o-diethylbenzene	119	10.403	10.403	0.000	94	12925	1.00	0.8858	
153 1,2-Dibromo-3-Chloropropane	75	10.894	10.881	0.013	84	3663	1.00	0.9780	
154 1,3,5-Trichlorobenzene	180	11.032	11.029	0.003	94	9711	1.00	0.9364	
S 155 Xylenes, Total	106				0			2.73	
156 1,2,4-Trichlorobenzene	180	11.446	11.440	0.006	92	9289	1.00	0.9005	
157 Hexachlorobutadiene	225	11.545	11.549	-0.004	90	2779	1.00	0.7753	
158 Naphthalene	128	11.603	11.600	0.003	97	45815	1.00	1.01	
159 1,2,3-Trichlorobenzene	180	11.760	11.757	0.003	96	9975	1.00	0.9271	
160 2-Methylnaphthalene	142	12.325	12.322	0.003	92	24793	1.00	1.00	
S 172 Total Diethylbenzene	1				0			2.71	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_4ppbEtoh_00452	Amount Added: 12.50	Units: mL	
MSV_Cent_ISSS_00013	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 29-Oct-2022 01:15:08 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D

Injection Date: 27-Oct-2022 17:46:30 Instrument ID: 9137 Operator ID: lcp00895

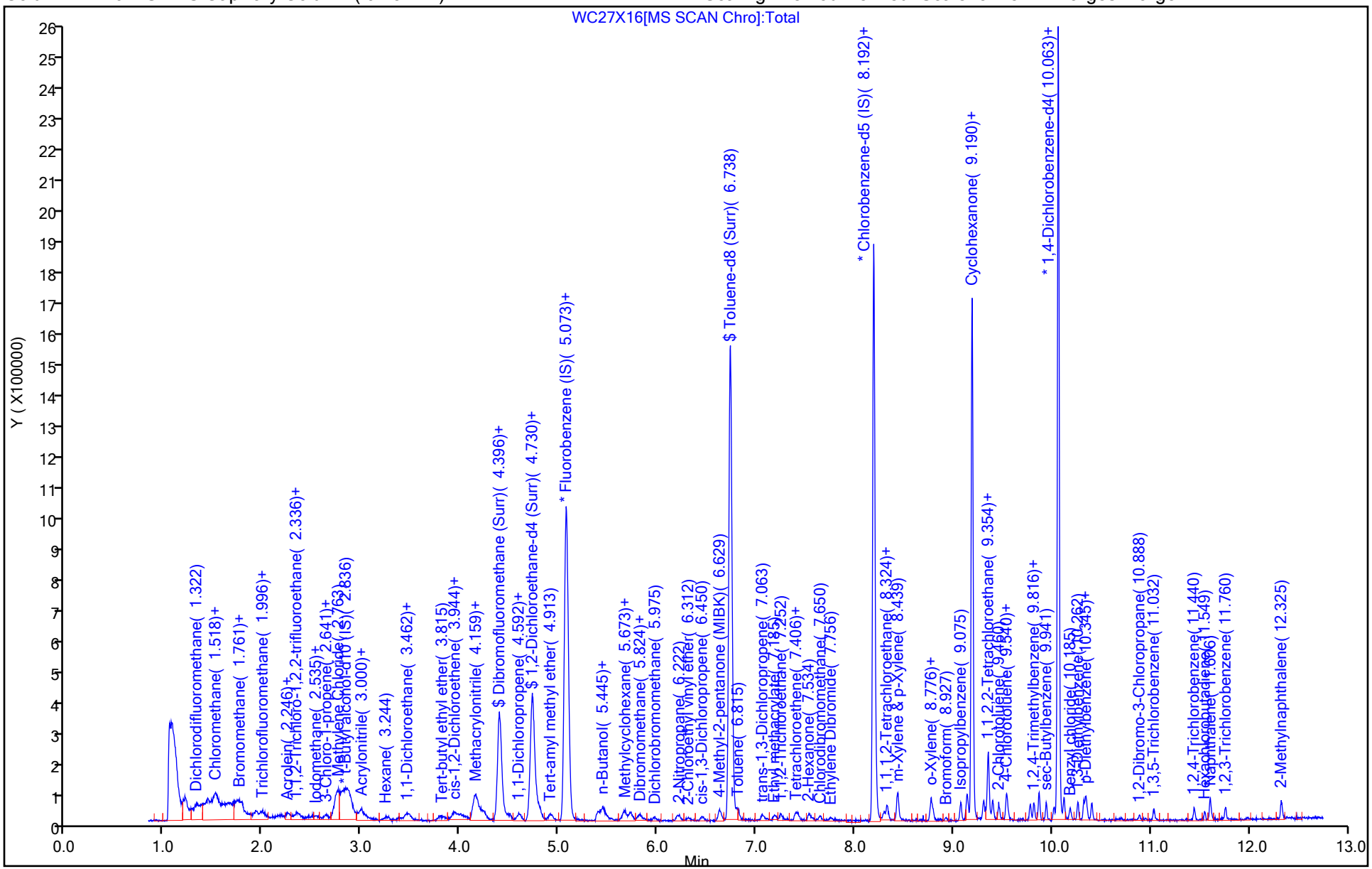
Lims ID: IC v1 Worklist Smp#: 17

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 16

Method: MSVoa_9137 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

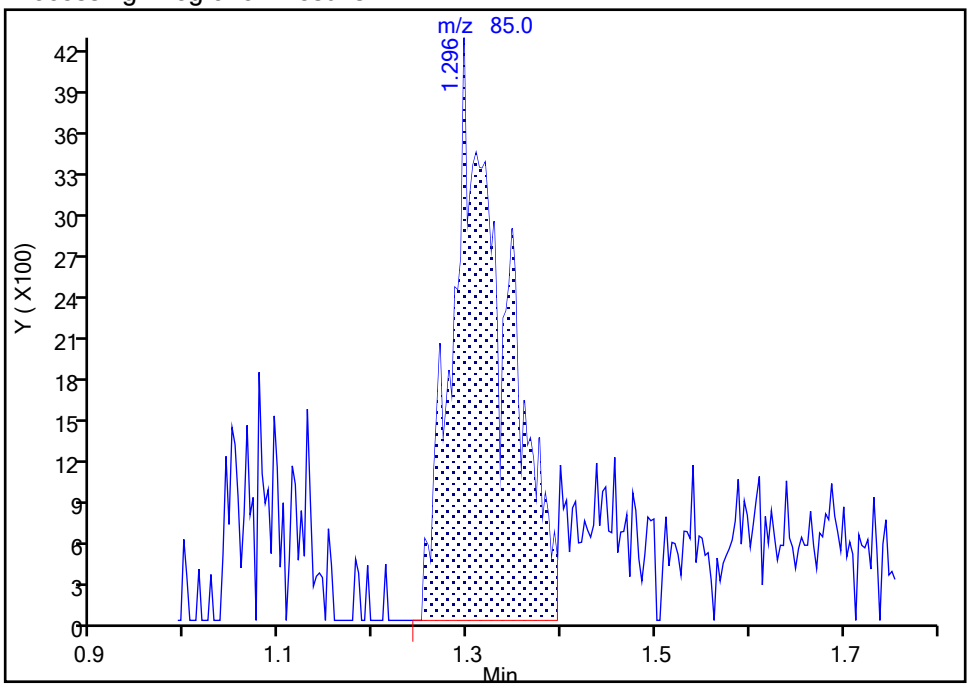
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D
Injection Date: 27-Oct-2022 17:46:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: lcp00895 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

5 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

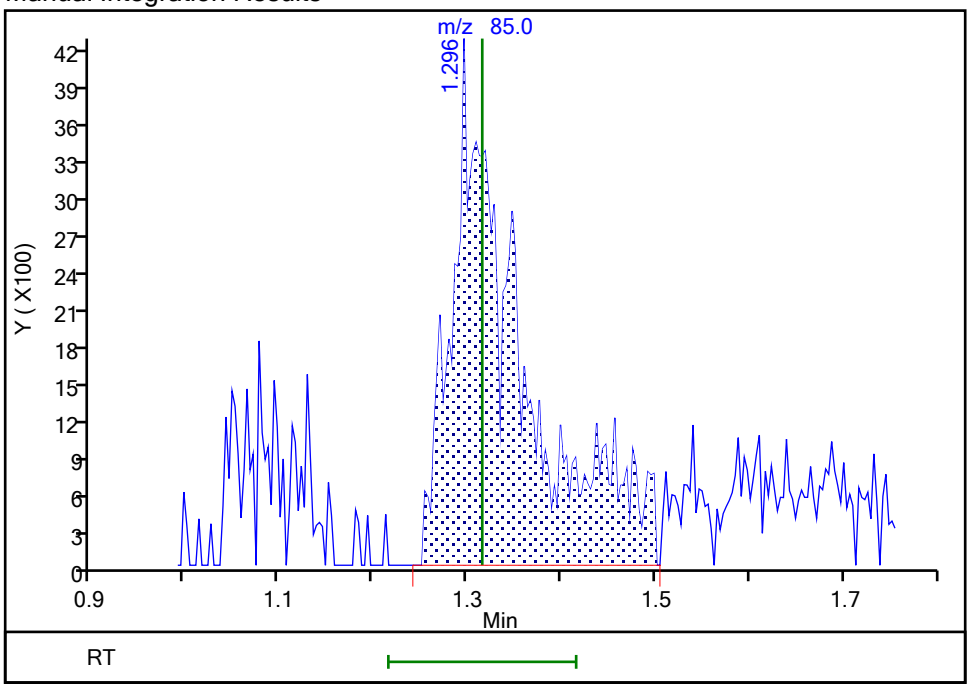
Processing Integration Results

RT: 1.30
Area: 16432
Amount: 0.956694
Amount Units: ug/l



Manual Integration Results

RT: 1.30
Area: 20914
Amount: 1.173882
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:48:25
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

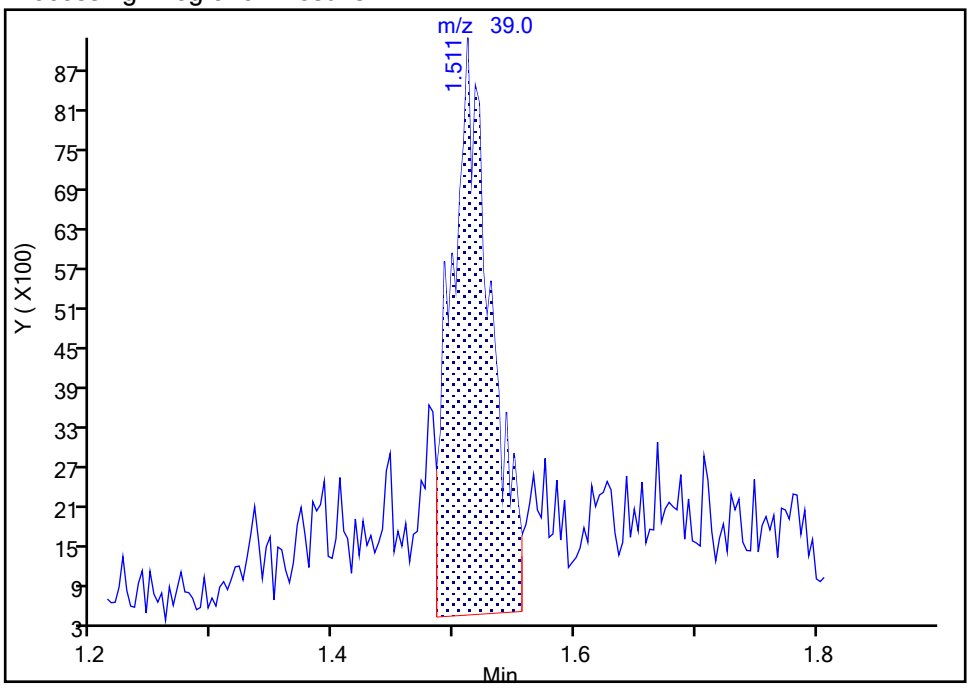
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D
Injection Date: 27-Oct-2022 17:46:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: lcp00895 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

8 Butadiene, CAS: 106-99-0

Signal: 1

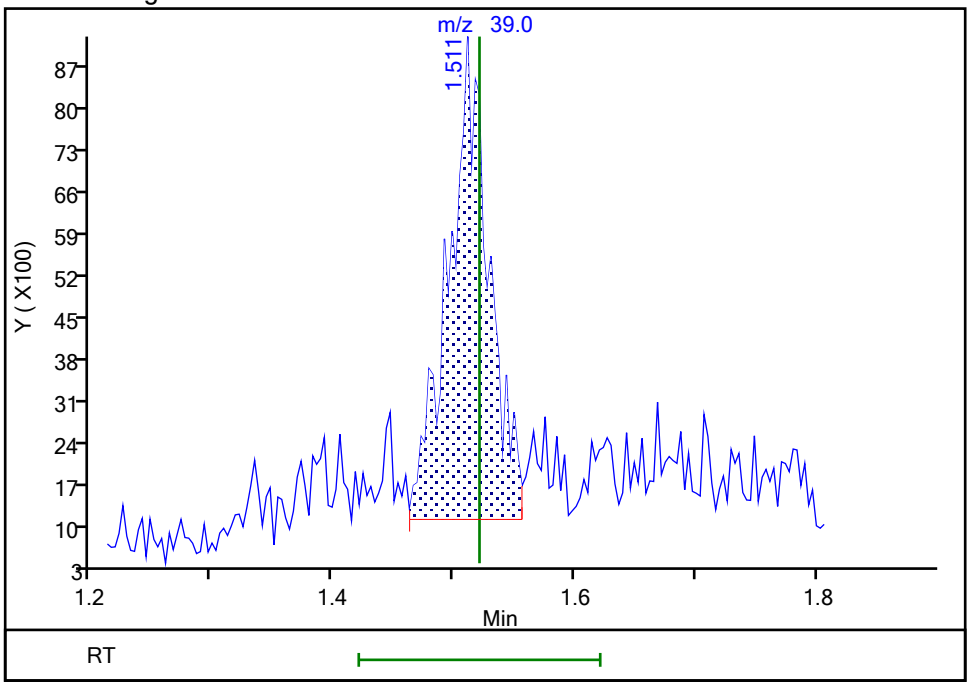
Processing Integration Results

RT: 1.51
Area: 19818
Amount: 1.111837
Amount Units: ug/l



Manual Integration Results

RT: 1.51
Area: 18694
Amount: 1.058311
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:48:38
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

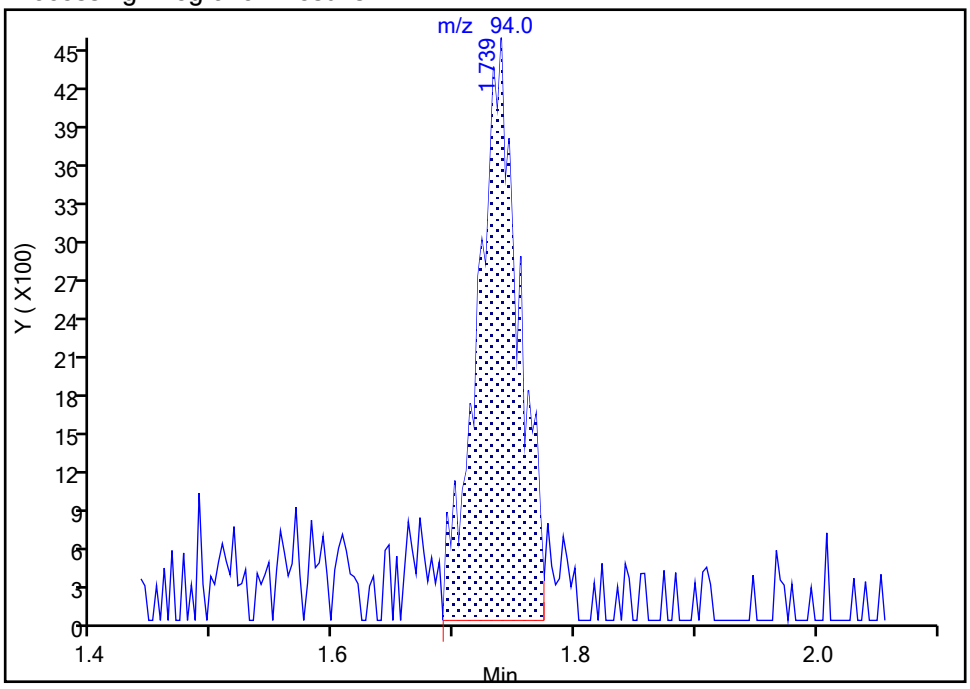
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D
Injection Date: 27-Oct-2022 17:46:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: lcp00895 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

10 Bromomethane, CAS: 74-83-9

Signal: 1

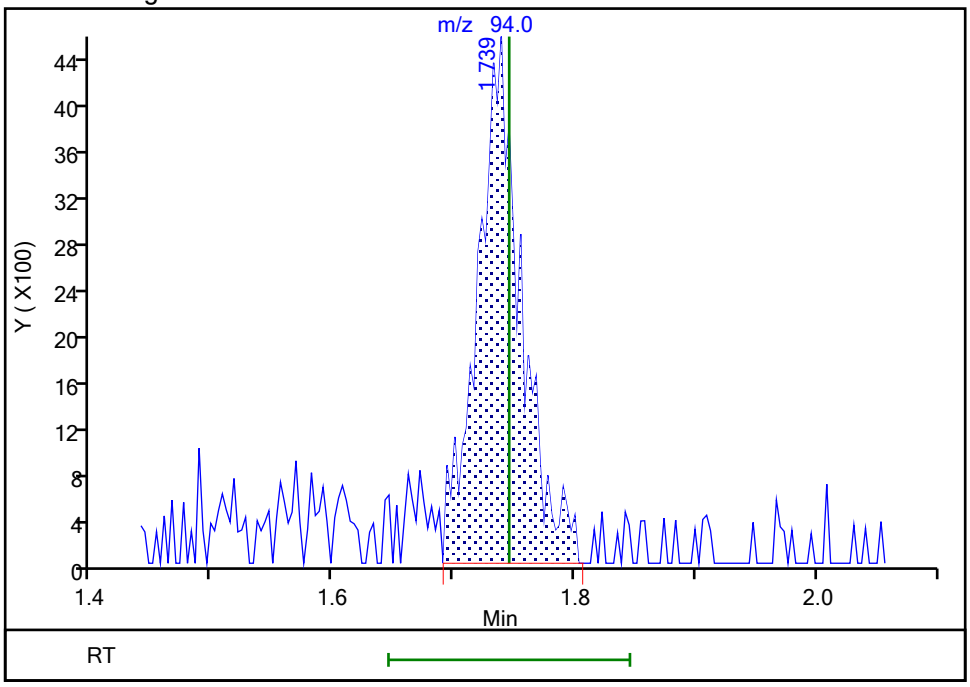
Processing Integration Results

RT: 1.74
Area: 10672
Amount: 1.064252
Amount Units: ug/l



Manual Integration Results

RT: 1.74
Area: 11365
Amount: 1.122280
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:48:44
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

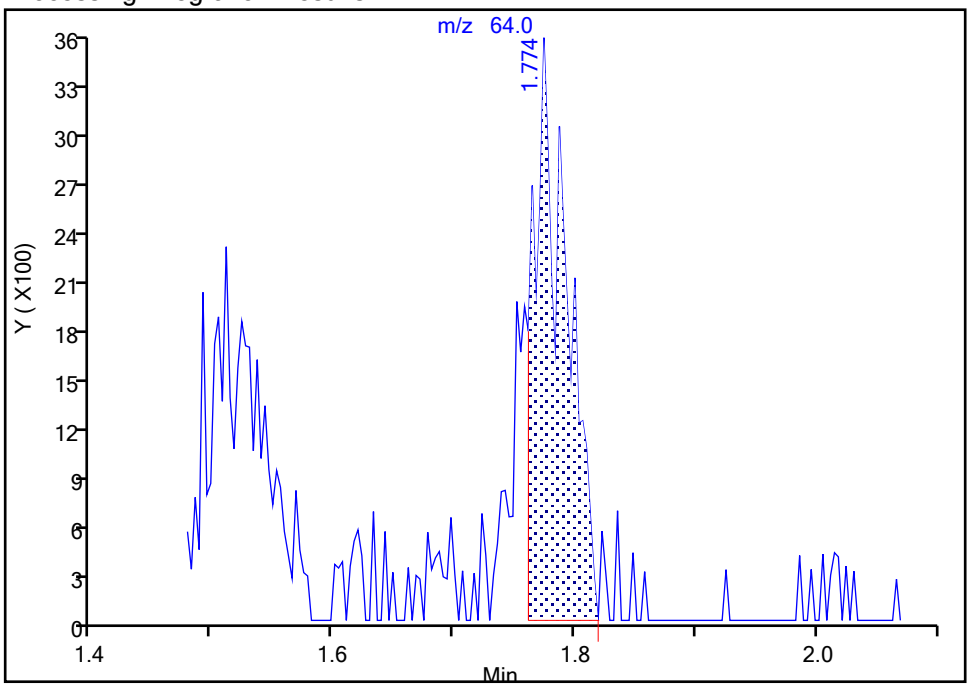
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D
Injection Date: 27-Oct-2022 17:46:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: lcp00895 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

11 Chloroethane, CAS: 75-00-3

Signal: 1

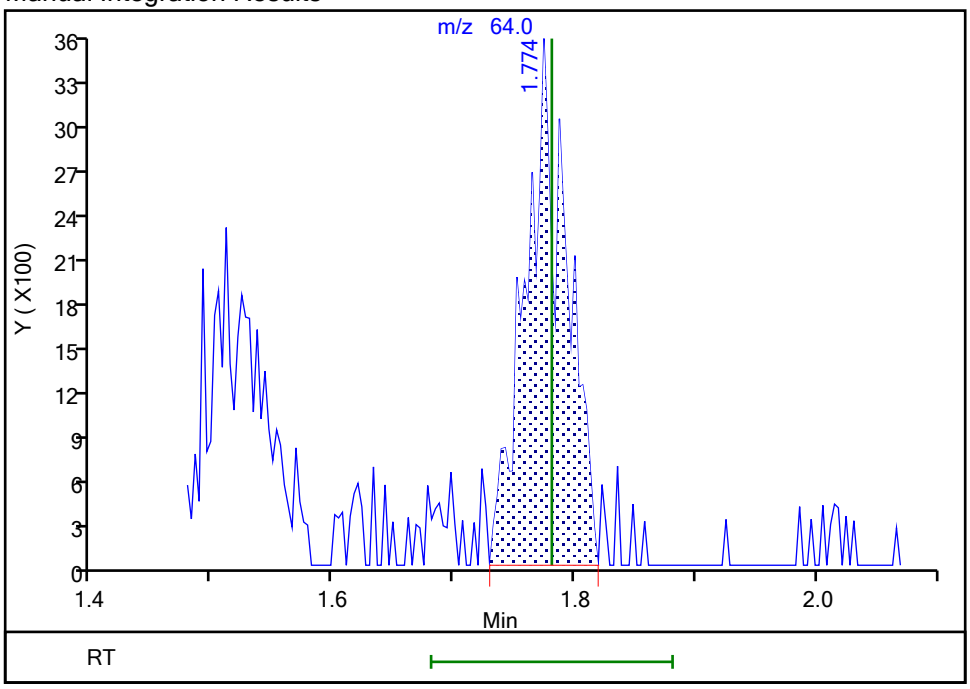
Processing Integration Results

RT: 1.77
Area: 6557
Amount: 0.768340
Amount Units: ug/l



Manual Integration Results

RT: 1.77
Area: 8298
Amount: 0.944812
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:48:49
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

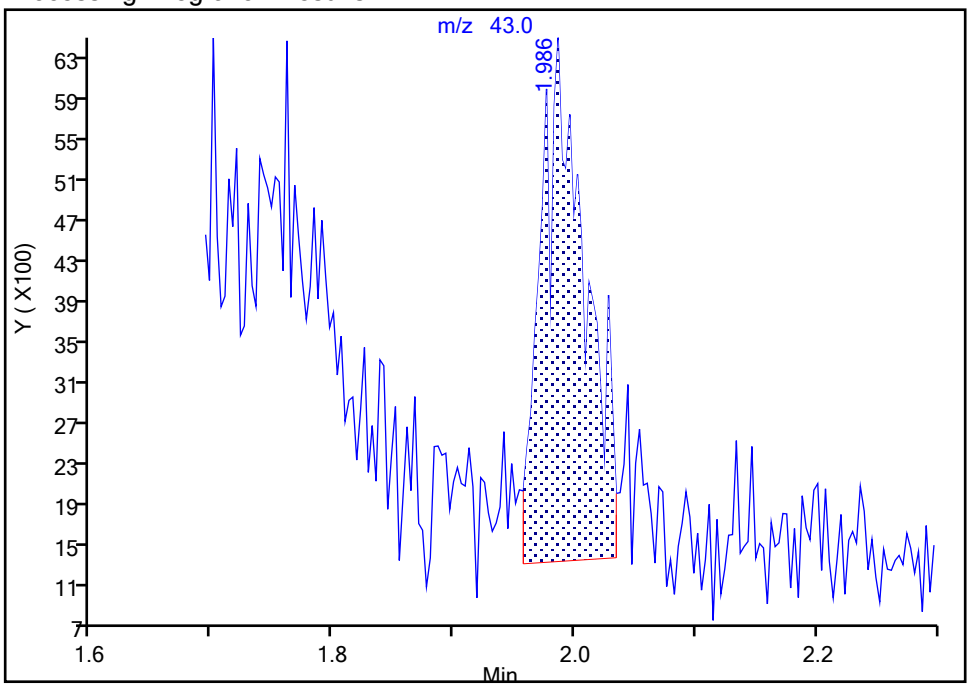
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D
Injection Date: 27-Oct-2022 17:46:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: lcp00895 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

13 Pentane, CAS: 109-66-0

Signal: 1

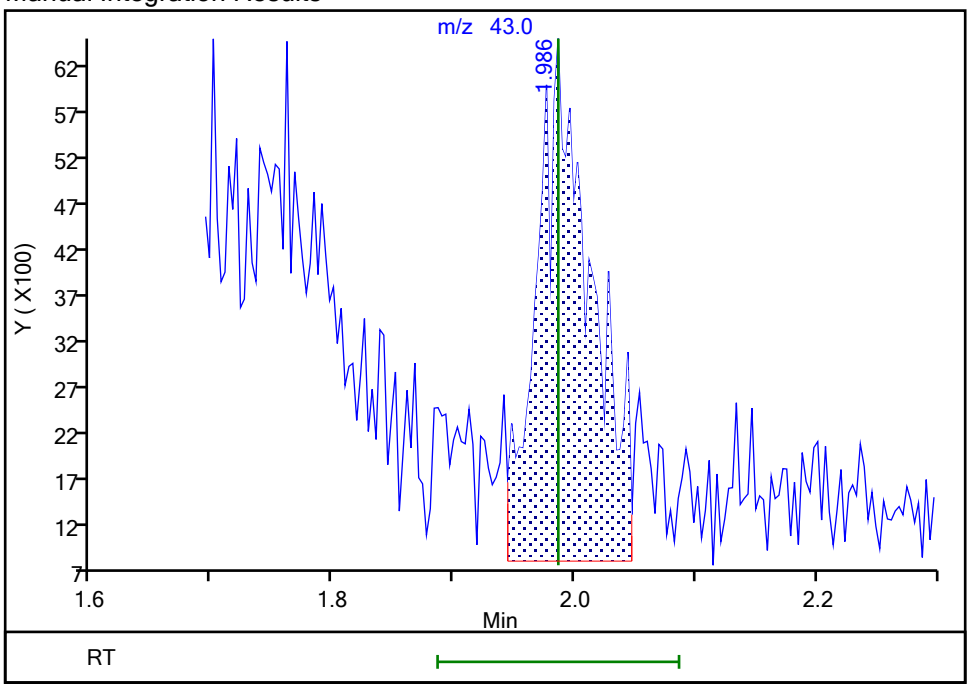
Processing Integration Results

RT: 1.99
Area: 13068
Amount: 0.918834
Amount Units: ug/l



Manual Integration Results

RT: 1.99
Area: 17647
Amount: 1.186232
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:49:02
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

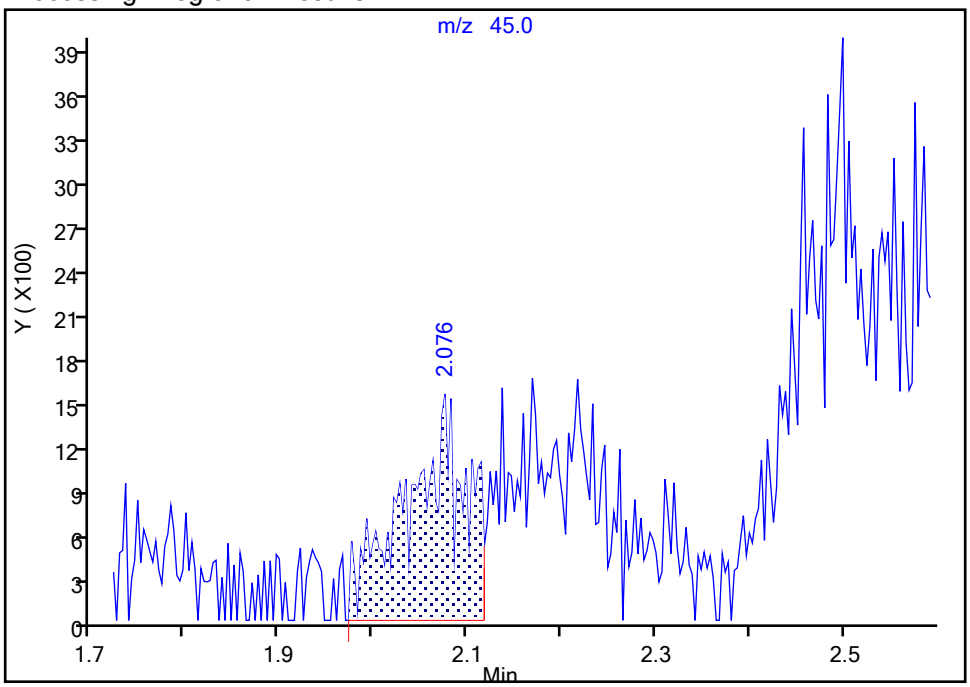
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D
Injection Date: 27-Oct-2022 17:46:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: lcp00895 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

16 Ethanol, CAS: 64-17-5

Signal: 1

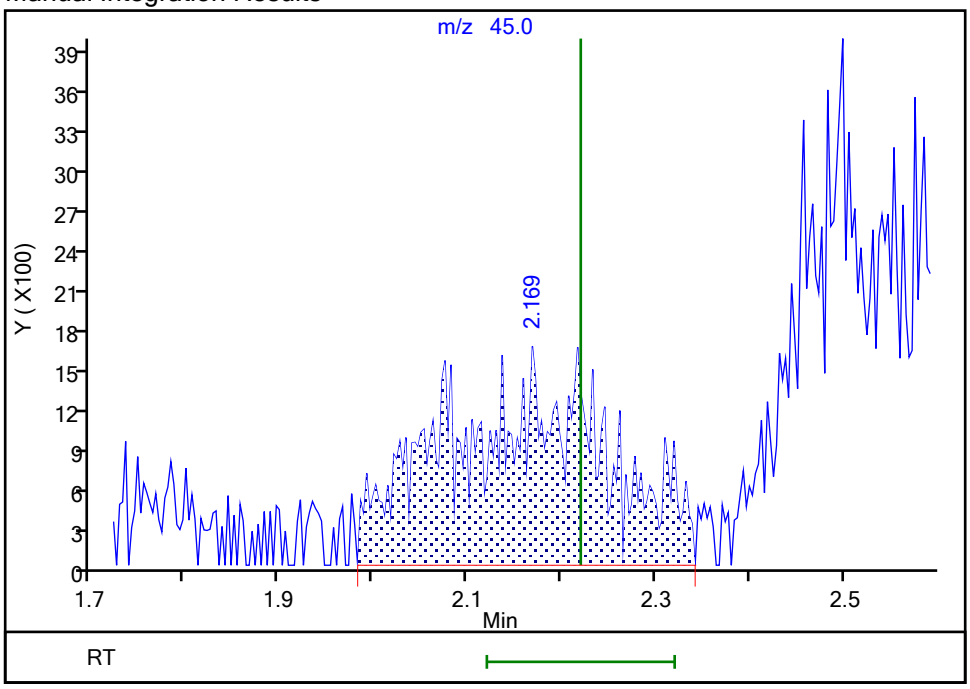
Processing Integration Results

RT: 2.08
Area: 6549
Amount: 32.756327
Amount Units: ug/l



Manual Integration Results

RT: 2.17
Area: 17366
Amount: 76.737388
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:49:12
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

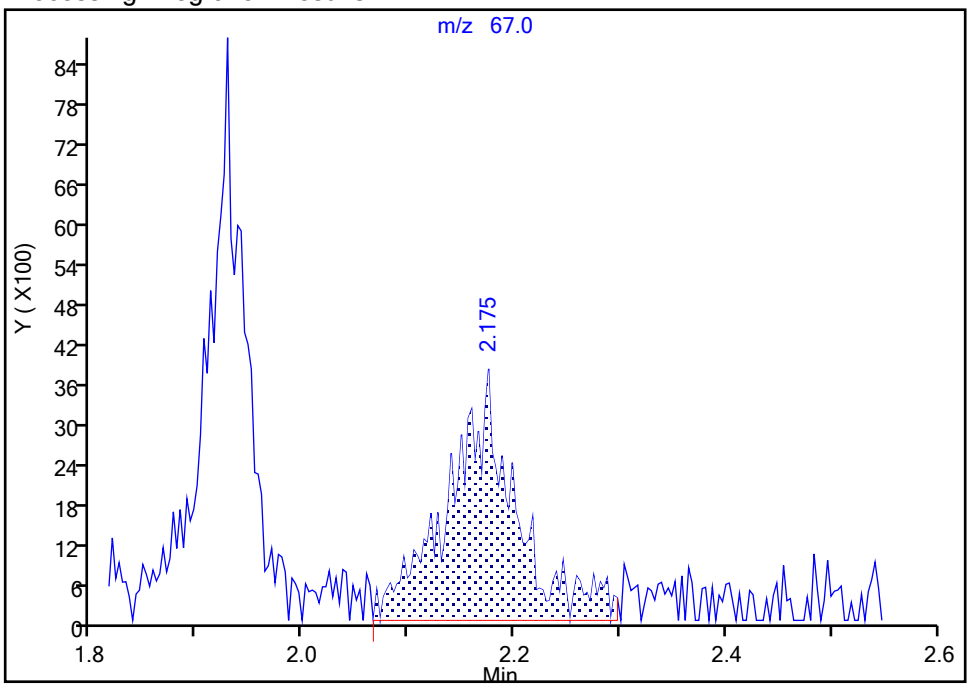
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D
Injection Date: 27-Oct-2022 17:46:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: lcp00895 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

17 1,2-Dichloro-1,1,2-trifluoroetha, CAS: 354-23-4

Signal: 1

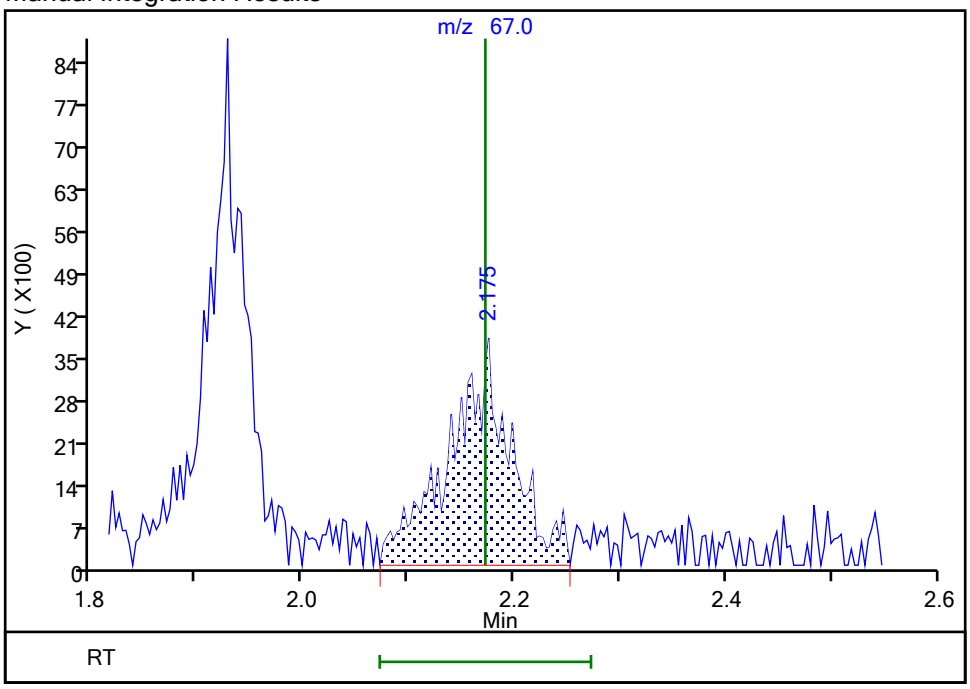
Processing Integration Results

RT: 2.18
Area: 16205
Amount: 1.335439
Amount Units: ug/l



Manual Integration Results

RT: 2.18
Area: 14951
Amount: 1.250560
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:53:49
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

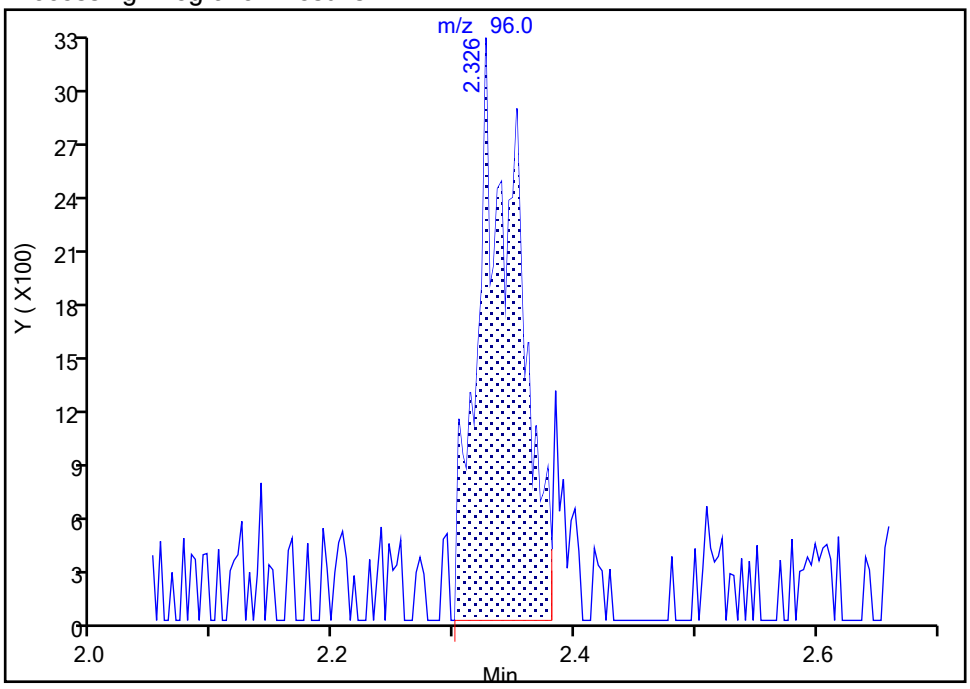
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D
Injection Date: 27-Oct-2022 17:46:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: lcp00895 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

19 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

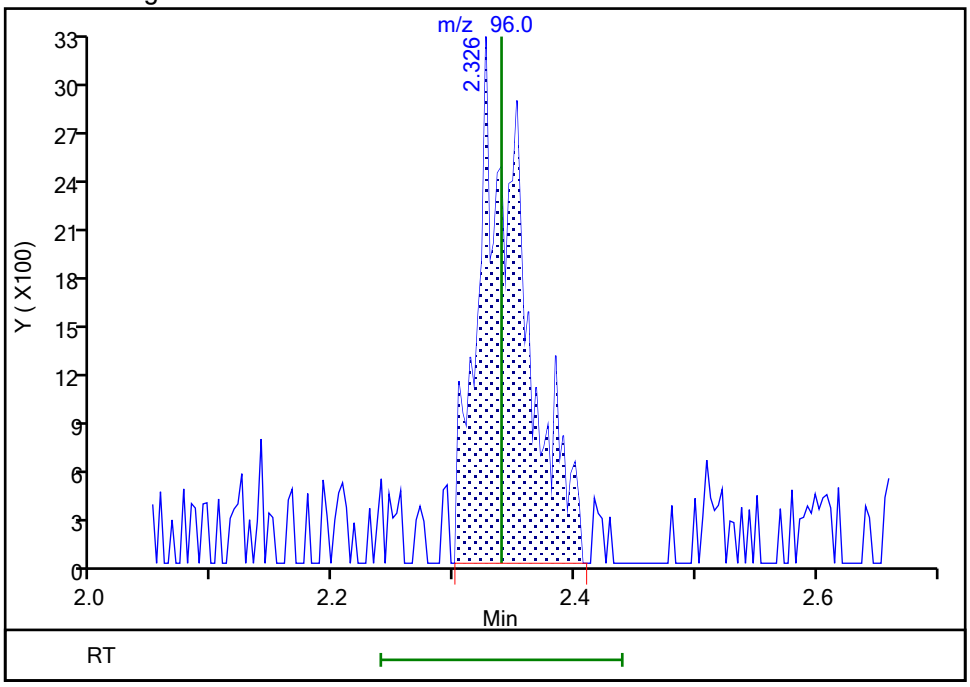
Processing Integration Results

RT: 2.33
Area: 7642
Amount: 0.973673
Amount Units: ug/l



Manual Integration Results

RT: 2.33
Area: 8525
Amount: 1.068995
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:49:18
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

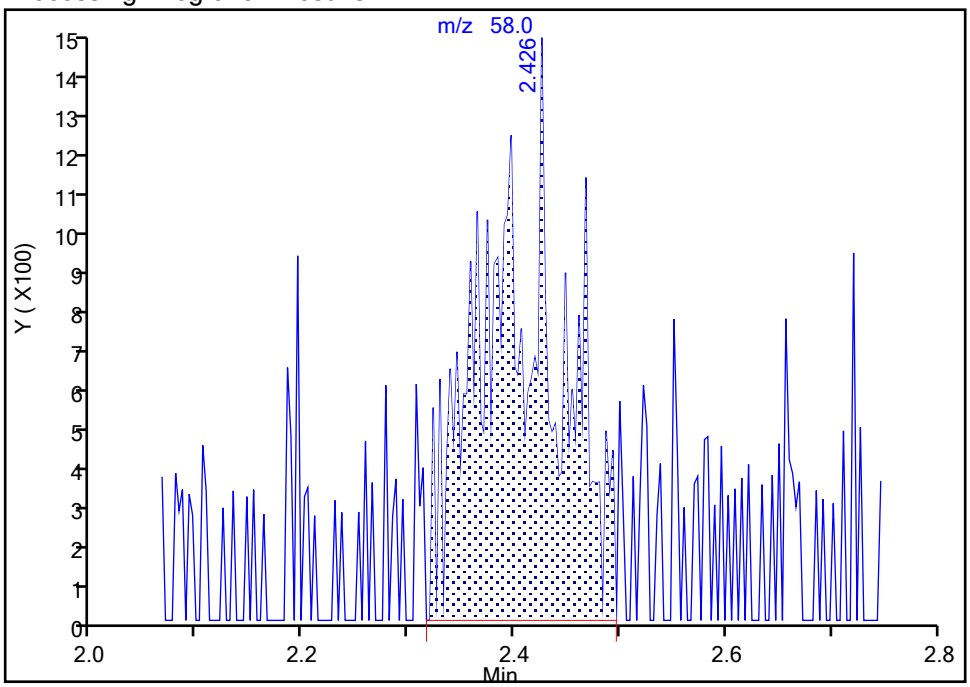
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D
Injection Date: 27-Oct-2022 17:46:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: lcp00895 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

20 Acetone, CAS: 67-64-1

Signal: 1

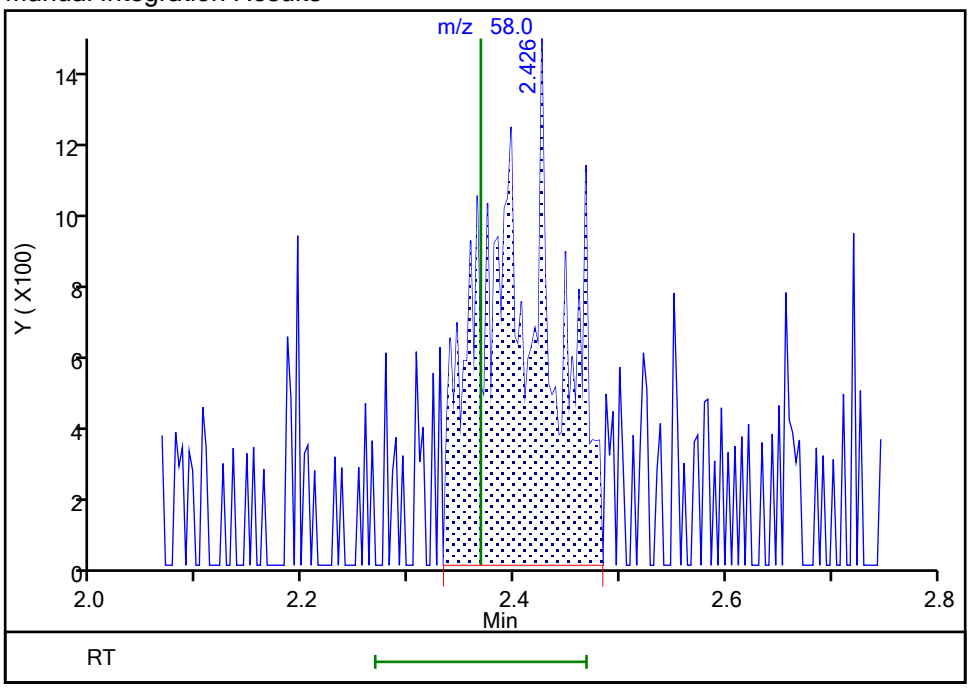
Processing Integration Results

RT: 2.43
Area: 5912
Amount: 3.983228
Amount Units: ug/l



Manual Integration Results

RT: 2.43
Area: 5477
Amount: 3.540405
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 01:06:11
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

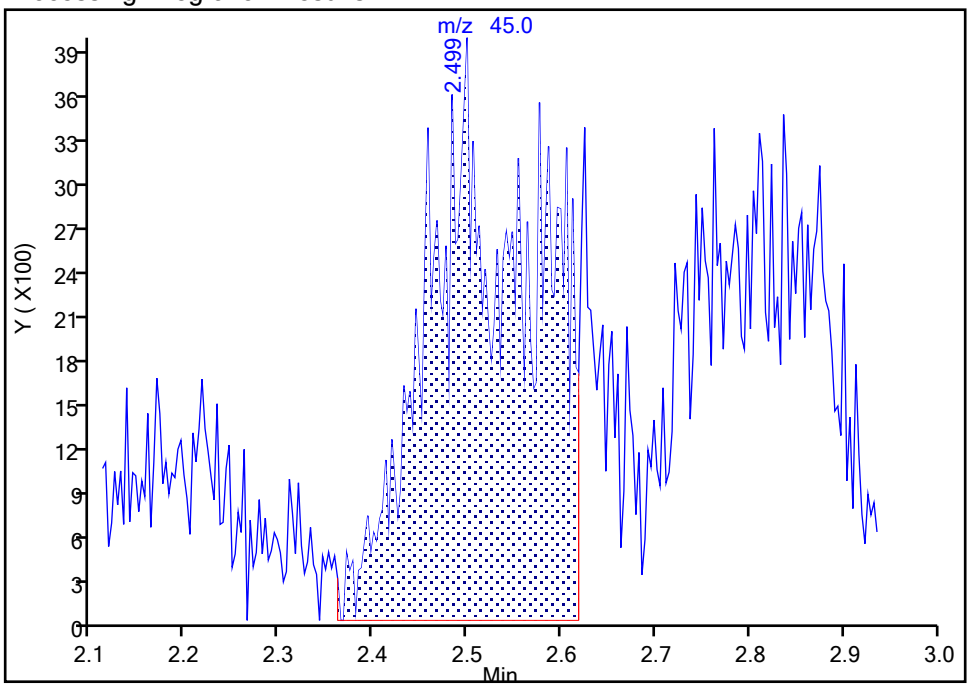
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D
Injection Date: 27-Oct-2022 17:46:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: lcp00895 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

23 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

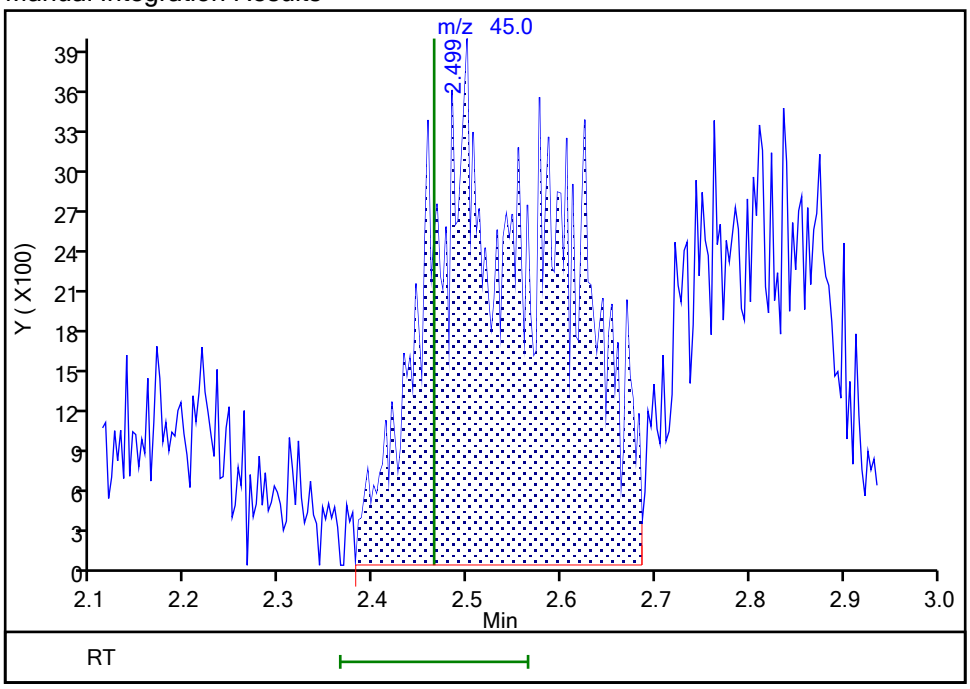
Processing Integration Results

RT: 2.50
Area: 28940
Amount: 16.992210
Amount Units: ug/l



Manual Integration Results

RT: 2.50
Area: 35061
Amount: 20.894511
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:49:35
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

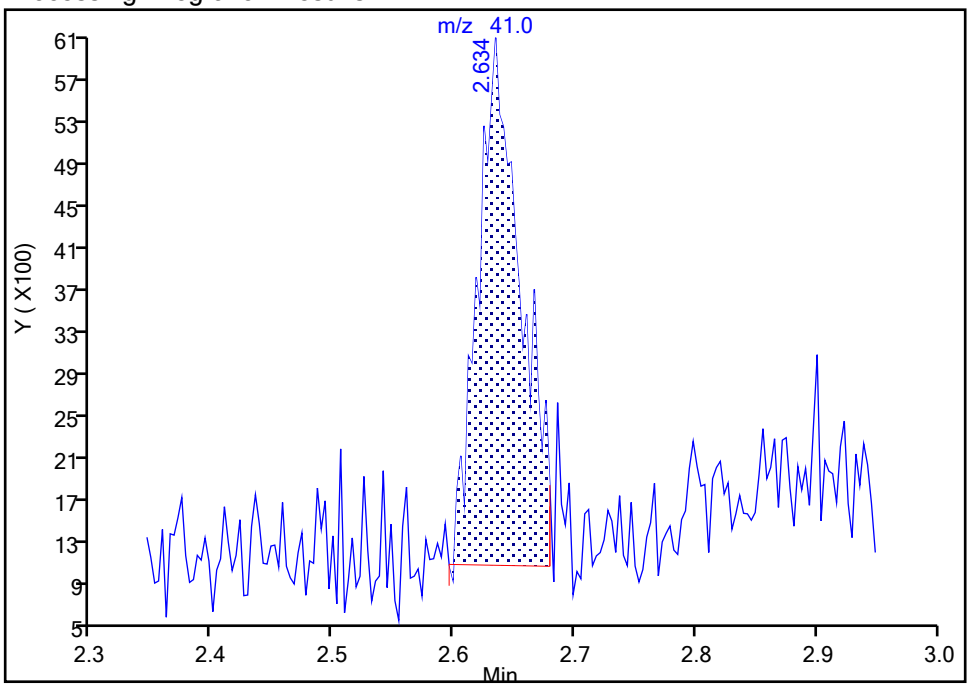
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D
Injection Date: 27-Oct-2022 17:46:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: lcp00895 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

25 3-Chloro-1-propene, CAS: 107-05-1

Signal: 1

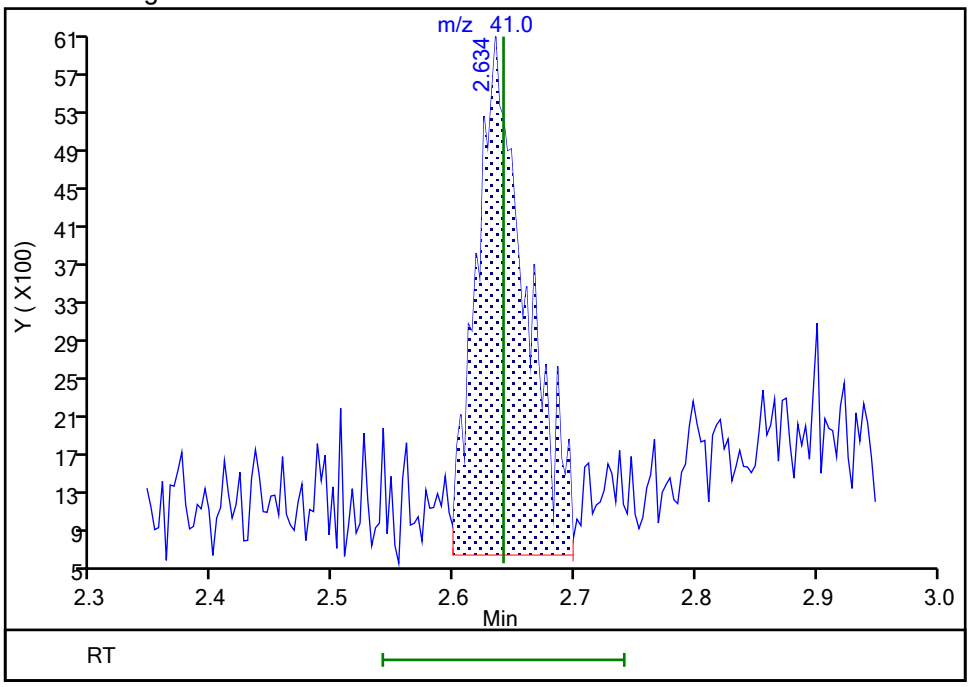
Processing Integration Results

RT: 2.63
Area: 12280
Amount: 0.895367
Amount Units: ug/l



Manual Integration Results

RT: 2.63
Area: 15505
Amount: 1.093769
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:49:51
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

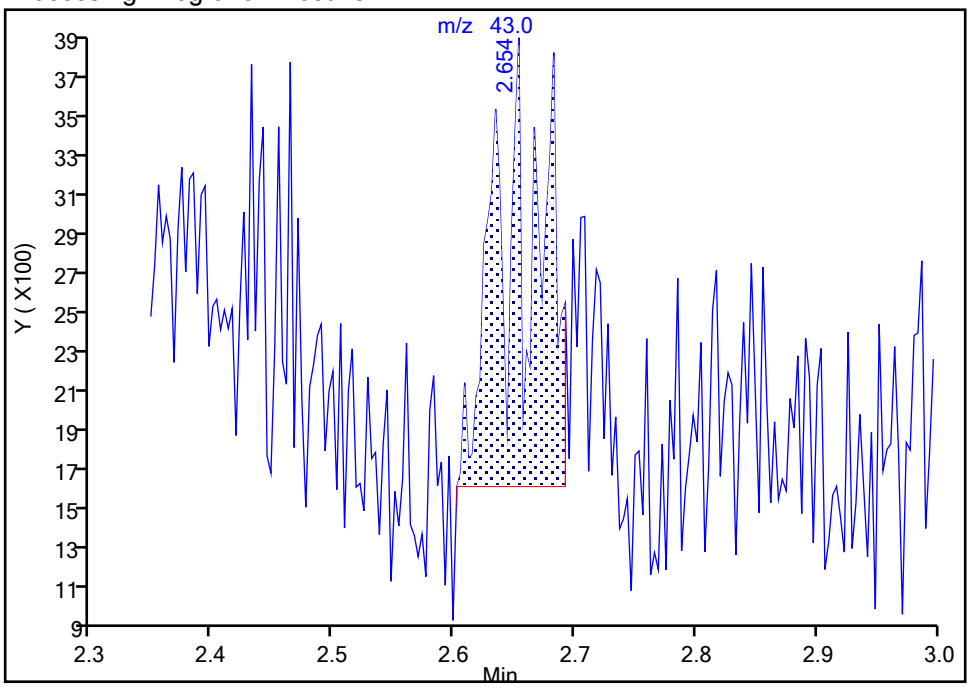
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D
Injection Date: 27-Oct-2022 17:46:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: lcp00895 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

27 Methyl acetate, CAS: 79-20-9

Signal: 1

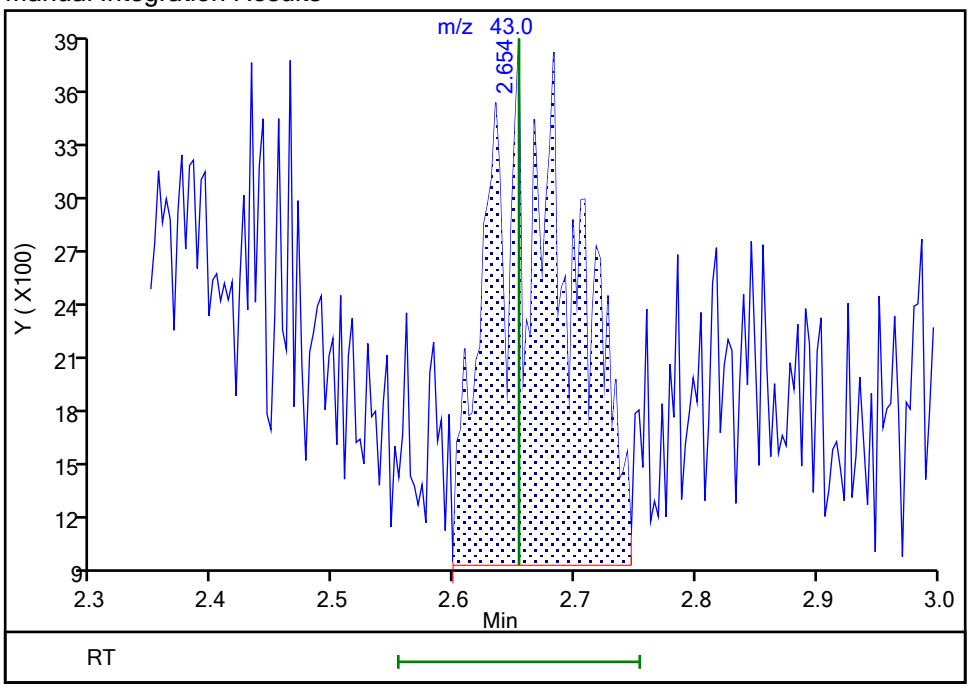
Processing Integration Results

RT: 2.65
Area: 5396
Amount: 0.990825
Amount Units: ug/l



Manual Integration Results

RT: 2.65
Area: 12896
Amount: 1.113134
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:50:04
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

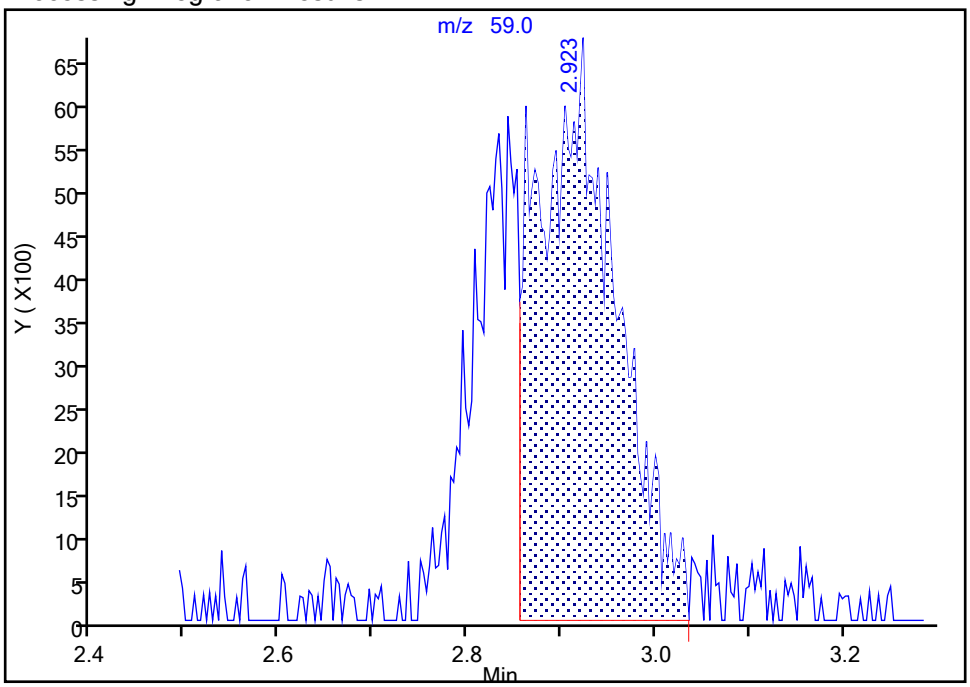
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D
Injection Date: 27-Oct-2022 17:46:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: lcp00895 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

30 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

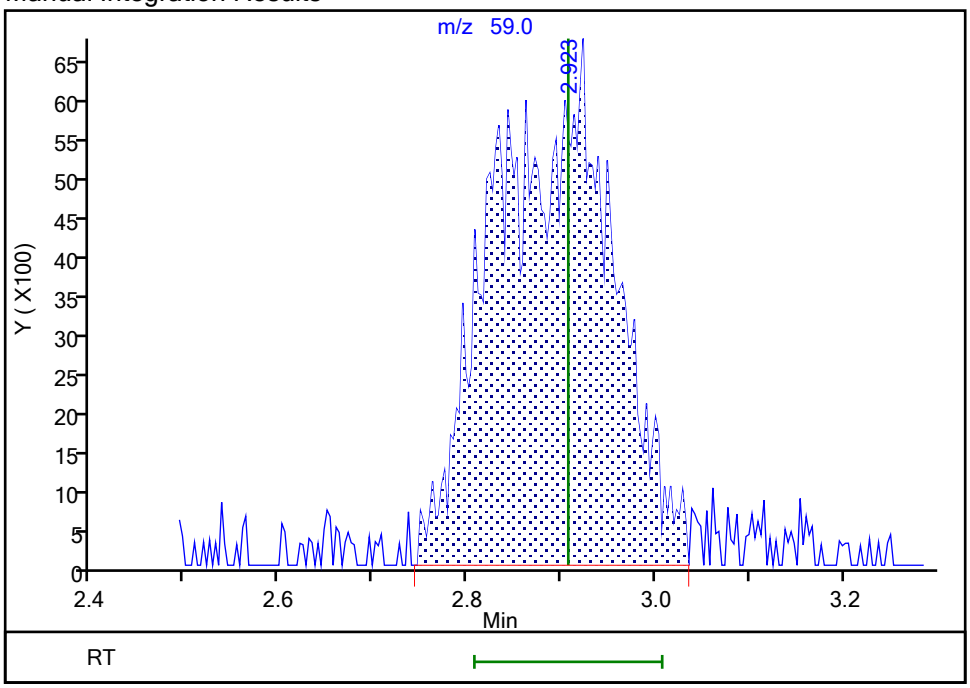
Processing Integration Results

RT: 2.92
Area: 38774
Amount: 14.735492
Amount Units: ug/l



Manual Integration Results

RT: 2.92
Area: 57249
Amount: 20.717633
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:50:13
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

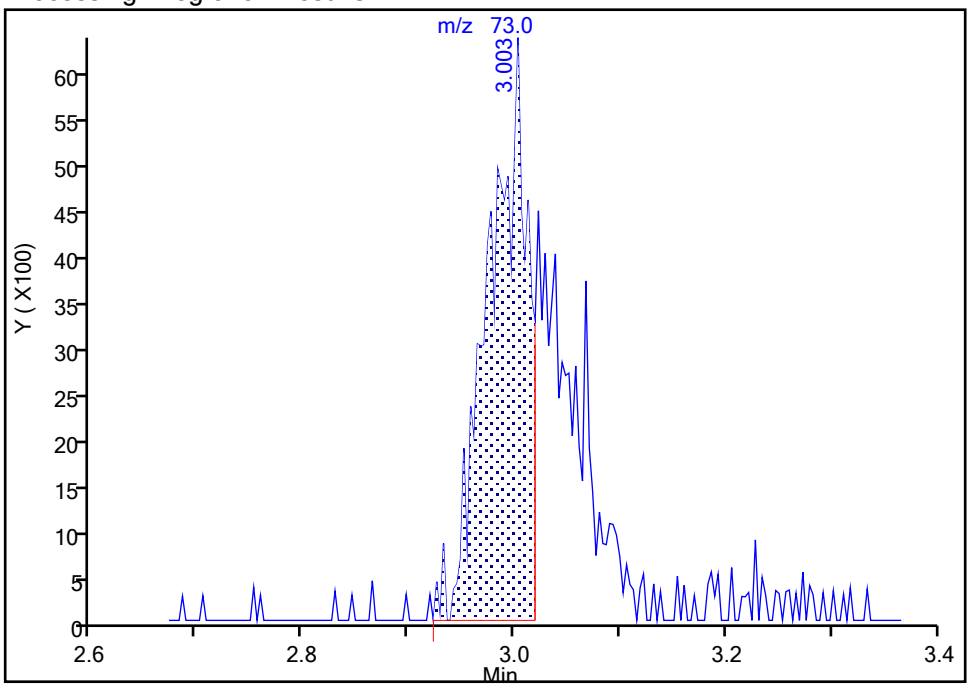
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D
Injection Date: 27-Oct-2022 17:46:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: lcp00895 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

32 Methyl tert-butyl ether, CAS: 1634-04-4

Signal: 1

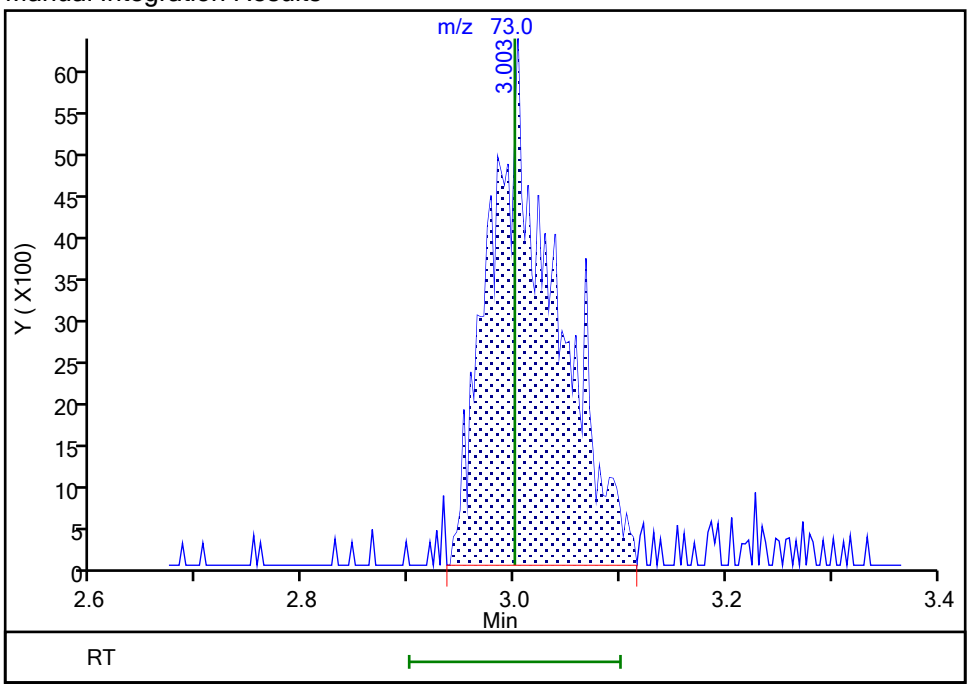
Processing Integration Results

RT: 3.00
Area: 16197
Amount: 0.623760
Amount Units: ug/l



Manual Integration Results

RT: 3.00
Area: 26948
Amount: 0.979835
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:50:23
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

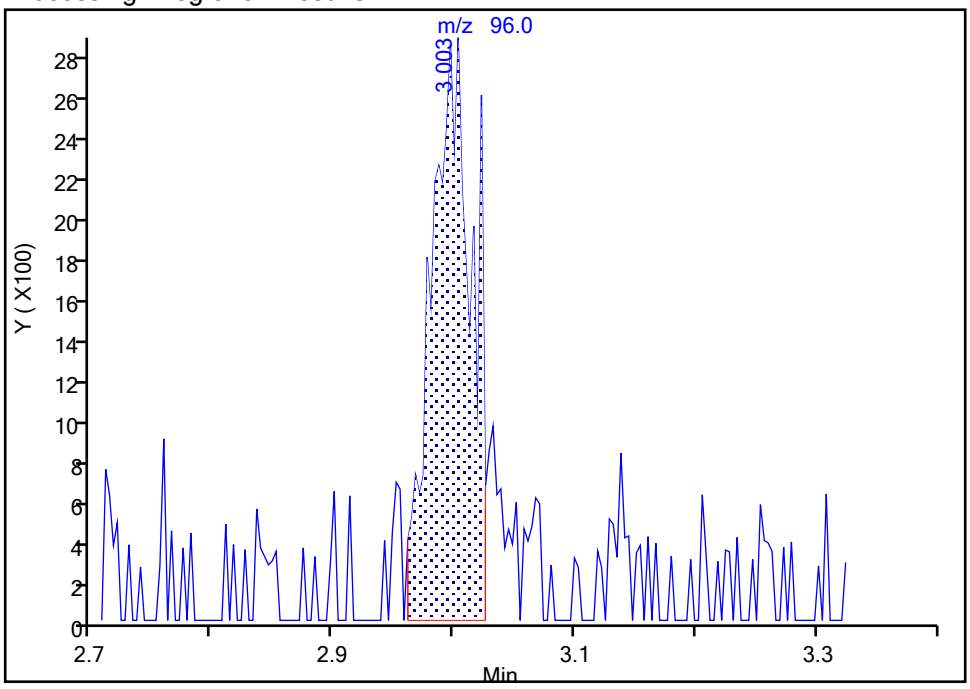
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D
Injection Date: 27-Oct-2022 17:46:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: lcp00895 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

33 trans-1,2-Dichloroethene, CAS: 156-60-5

Signal: 1

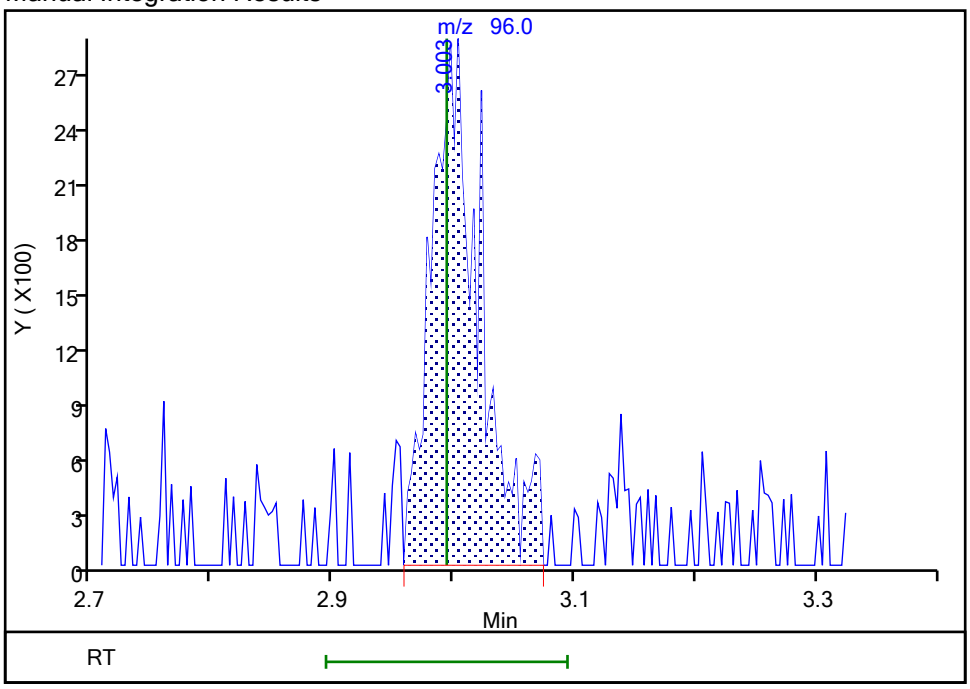
Processing Integration Results

RT: 3.00
Area: 6584
Amount: 0.848752
Amount Units: ug/l



Manual Integration Results

RT: 3.00
Area: 7977
Amount: 1.002605
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:50:19
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

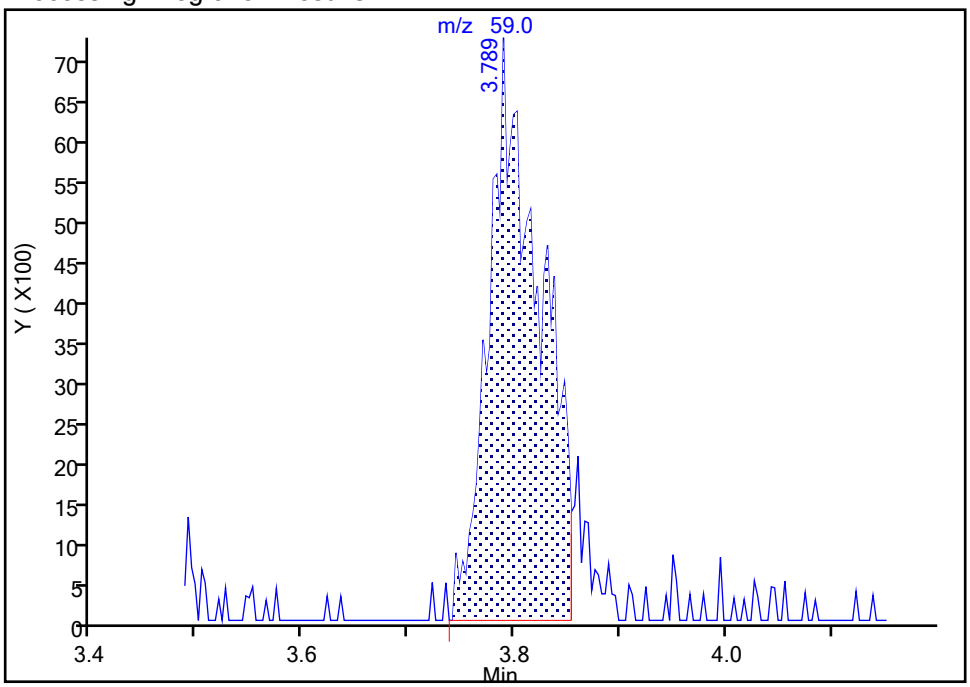
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D
Injection Date: 27-Oct-2022 17:46:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: lcp00895 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

39 Tert-butyl ethyl ether, CAS: 637-92-3

Signal: 1

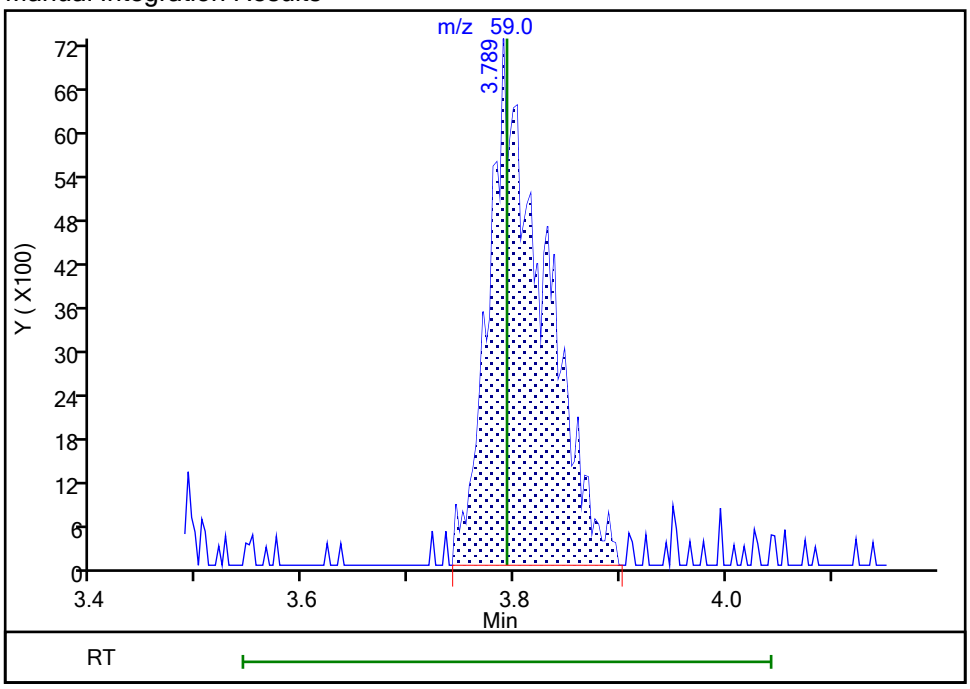
Processing Integration Results

RT: 3.79
Area: 24189
Amount: 0.876535
Amount Units: ug/l



Manual Integration Results

RT: 3.79
Area: 26166
Amount: 0.938570
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:50:31
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

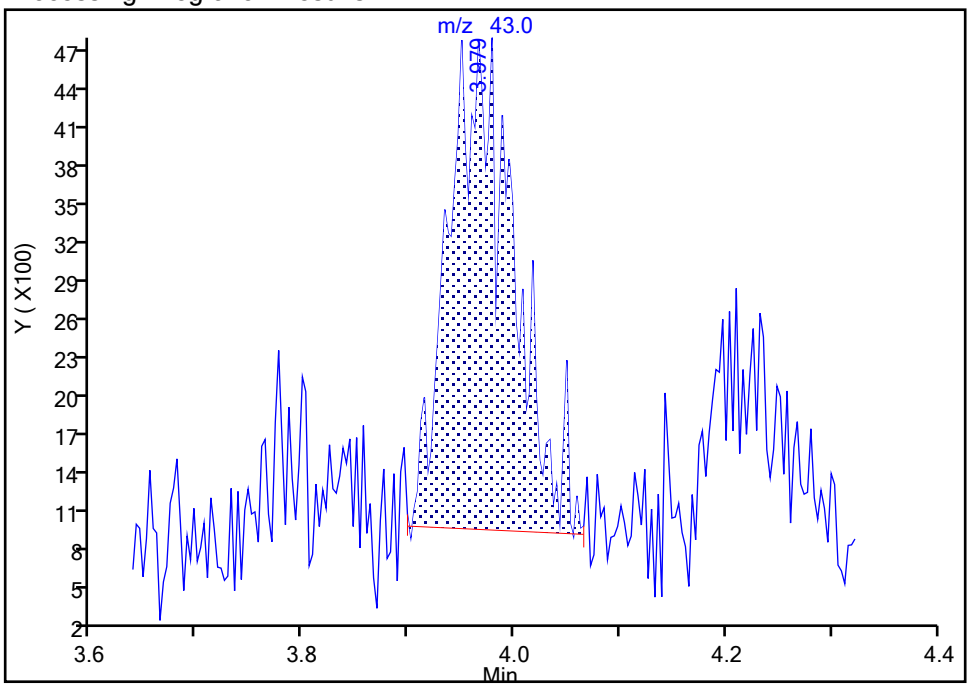
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D
Injection Date: 27-Oct-2022 17:46:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: lcp00895 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

41 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

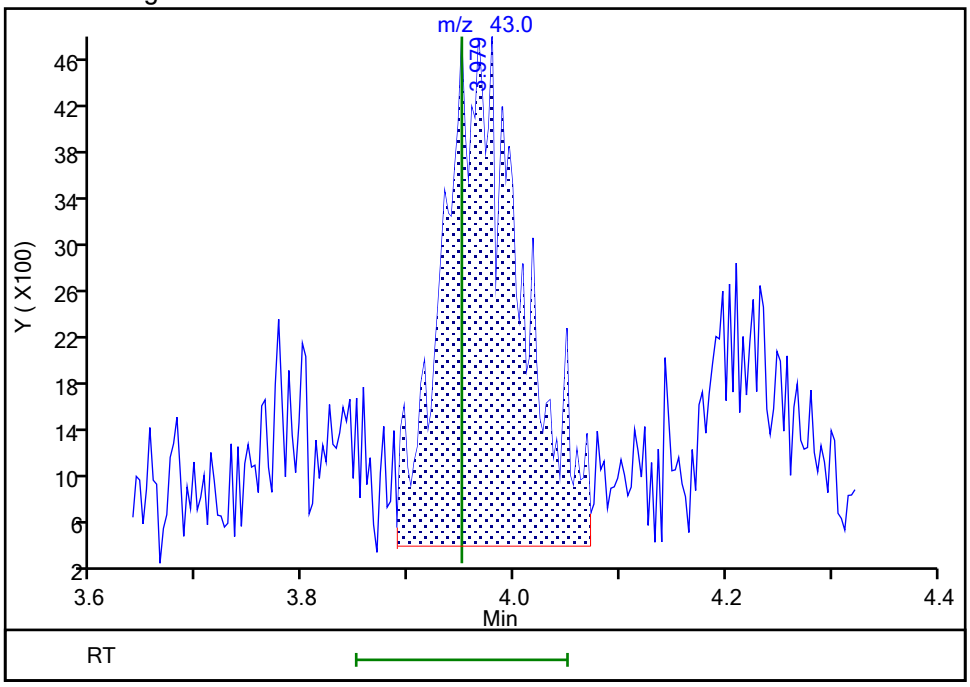
Processing Integration Results

RT: 3.98
Area: 15769
Amount: 1.884694
Amount Units: ug/l



Manual Integration Results

RT: 3.98
Area: 21985
Amount: 2.495212
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:50:49
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

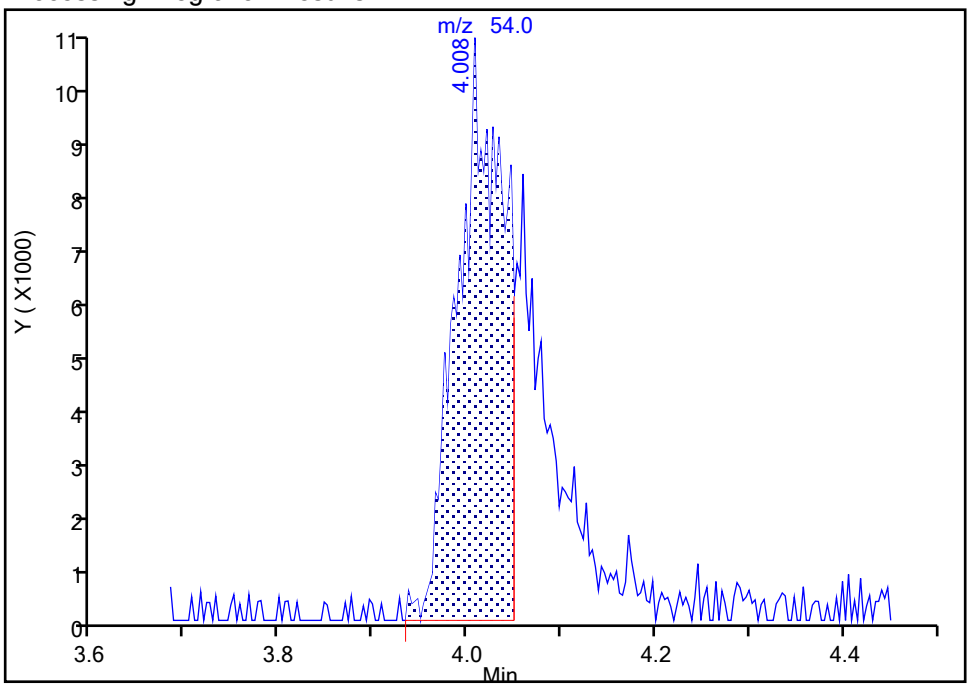
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D
Injection Date: 27-Oct-2022 17:46:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: lcp00895 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

44 Propionitrile, CAS: 107-12-0

Signal: 1

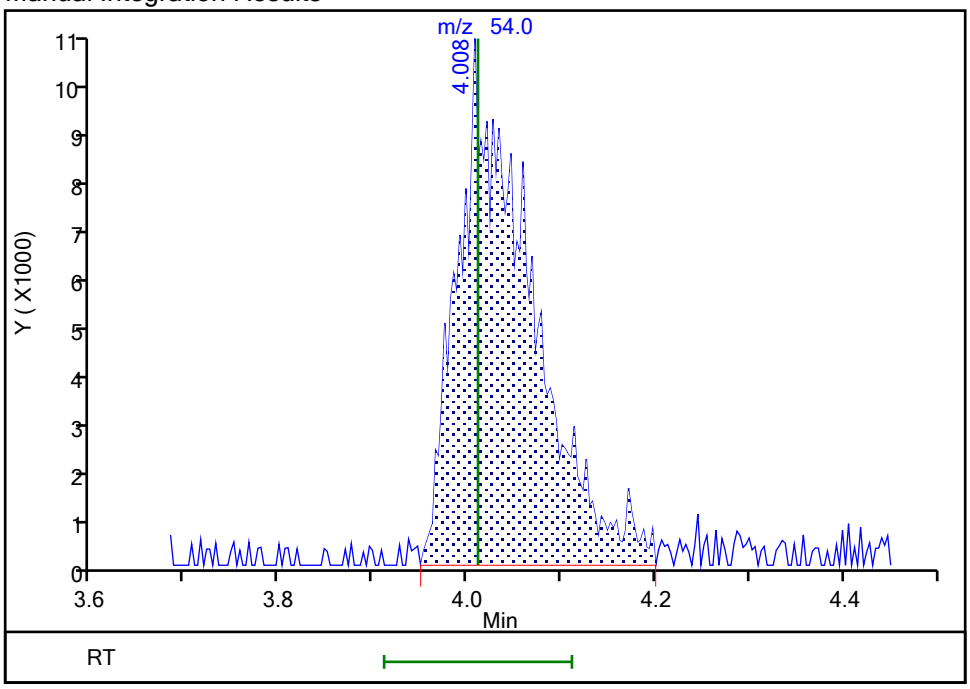
Processing Integration Results

RT: 4.01
Area: 35114
Amount: 15.904564
Amount Units: ug/l



Manual Integration Results

RT: 4.01
Area: 55301
Amount: 23.512461
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:50:59
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

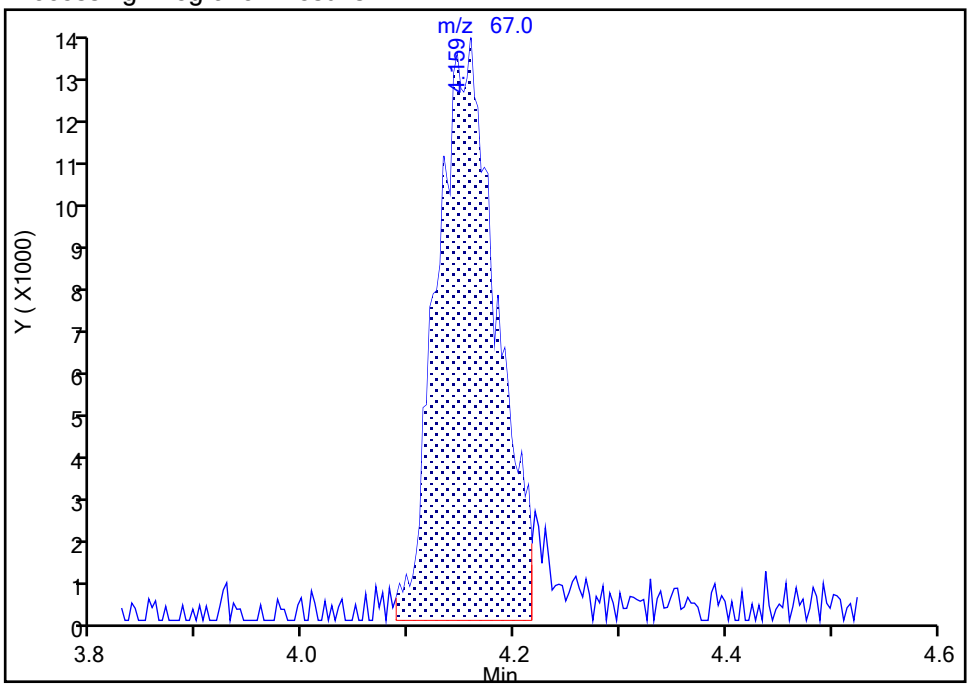
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D
Injection Date: 27-Oct-2022 17:46:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: lcp00895 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

45 Methacrylonitrile, CAS: 126-98-7

Signal: 1

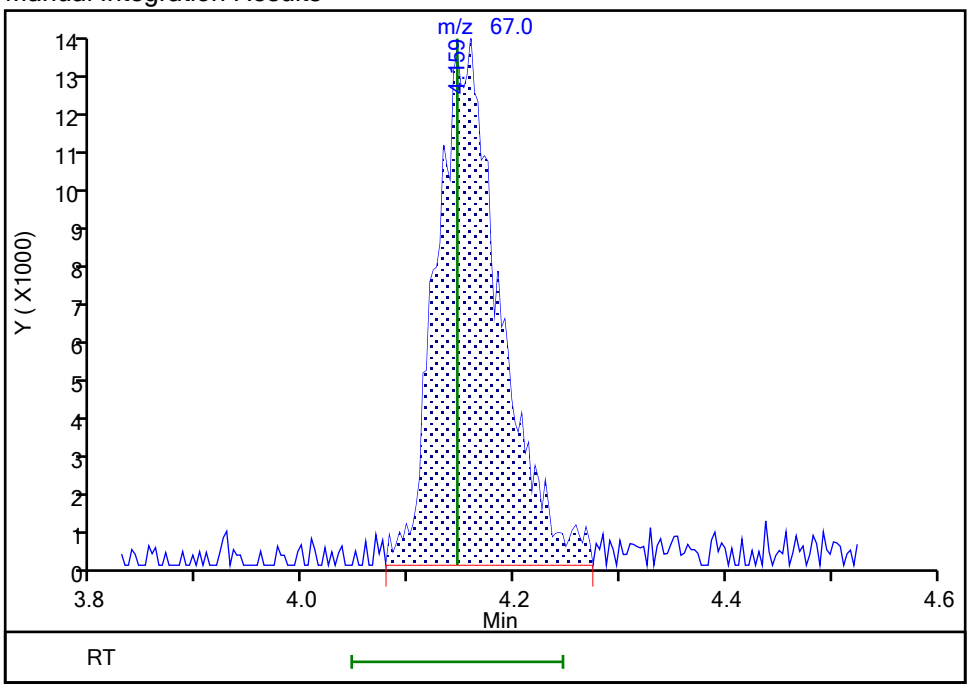
Processing Integration Results

RT: 4.16
Area: 52279
Amount: 9.415326
Amount Units: ug/l



Manual Integration Results

RT: 4.16
Area: 56042
Amount: 9.996254
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:51:06
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

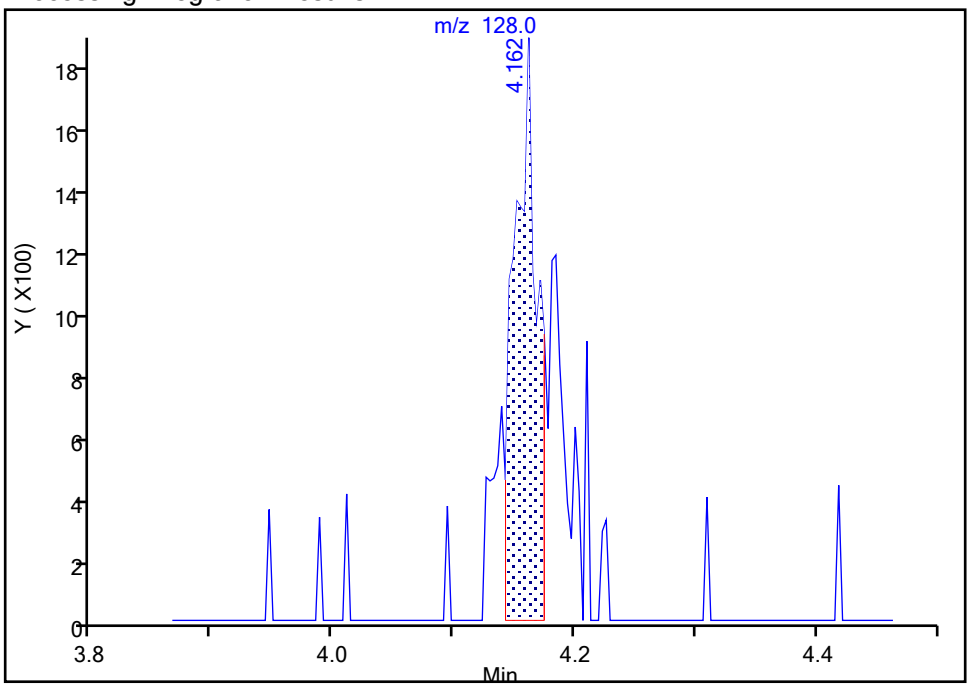
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D
Injection Date: 27-Oct-2022 17:46:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: lcp00895 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

46 Chlorobromomethane, CAS: 74-97-5

Signal: 1

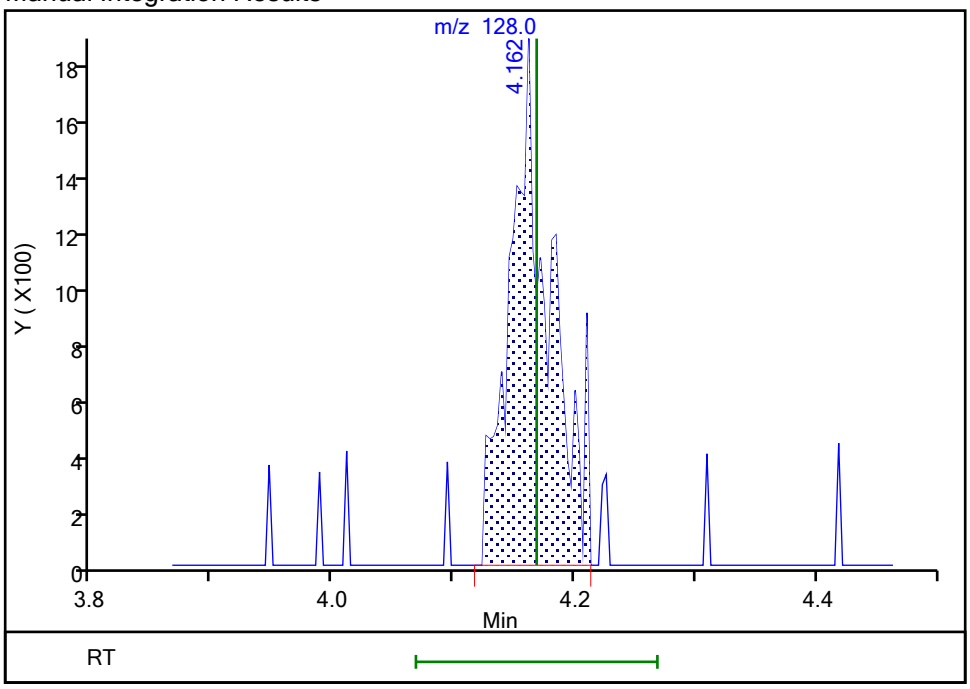
Processing Integration Results

RT: 4.16
Area: 2442
Amount: 0.648876
Amount Units: ug/l



Manual Integration Results

RT: 4.16
Area: 4277
Amount: 1.062458
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:51:13
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

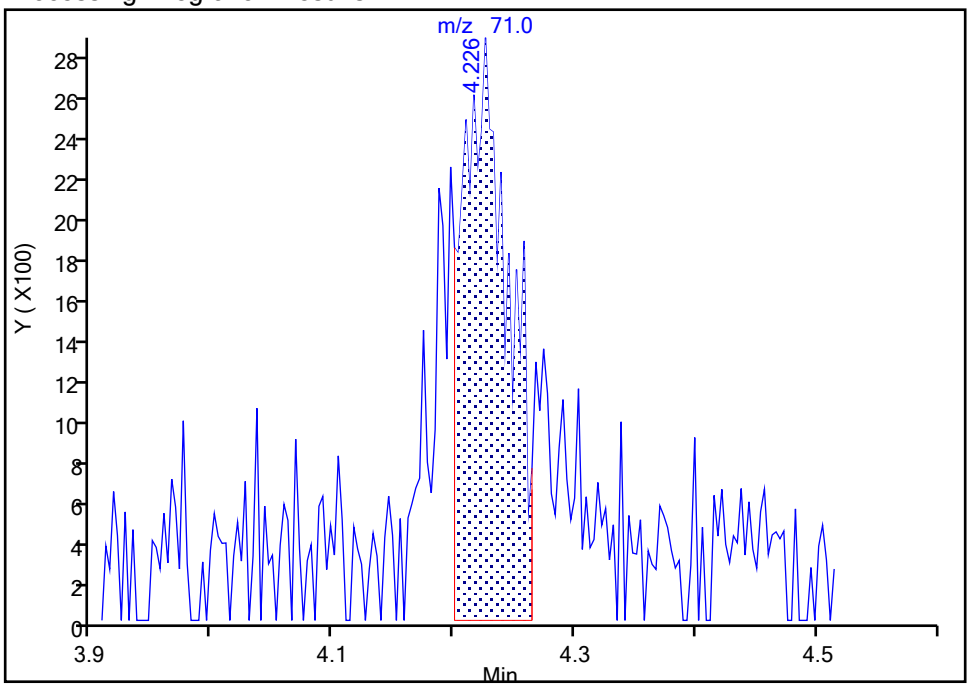
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D
Injection Date: 27-Oct-2022 17:46:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: lcp00895 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

47 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

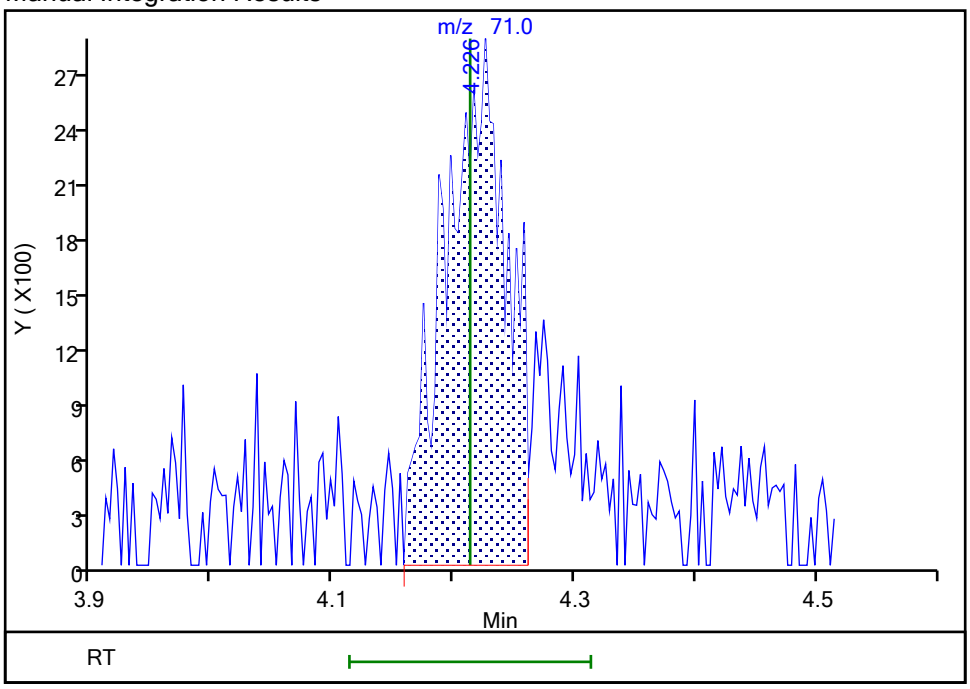
Processing Integration Results

RT: 4.23
Area: 7616
Amount: 4.347737
Amount Units: ug/l



Manual Integration Results

RT: 4.23
Area: 10147
Amount: 5.562956
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 01:02:49
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

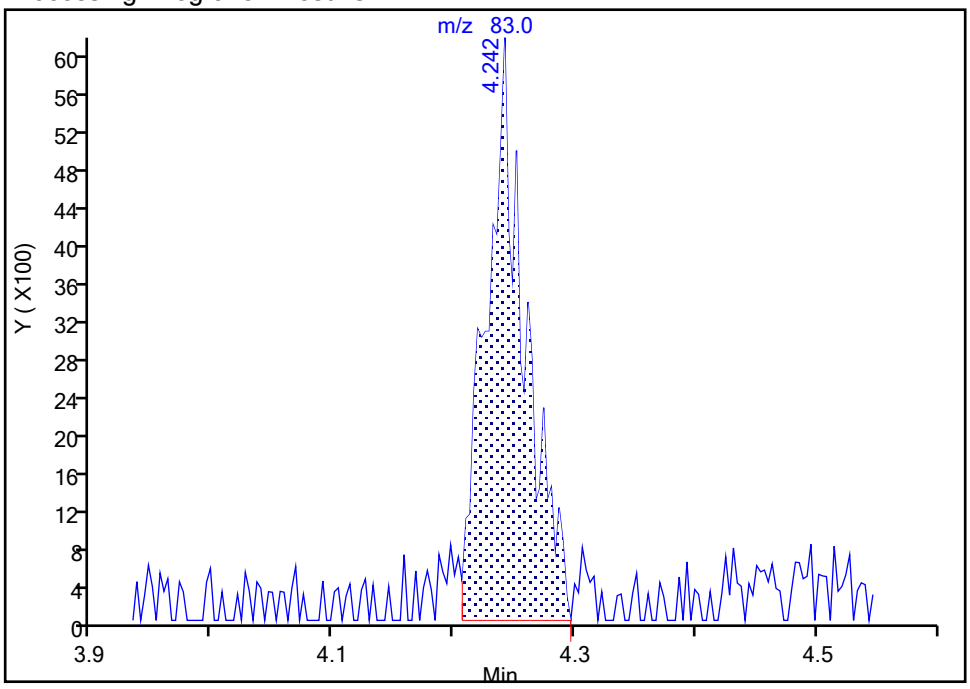
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D
Injection Date: 27-Oct-2022 17:46:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: lcp00895 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

48 Chloroform, CAS: 67-66-3

Signal: 1

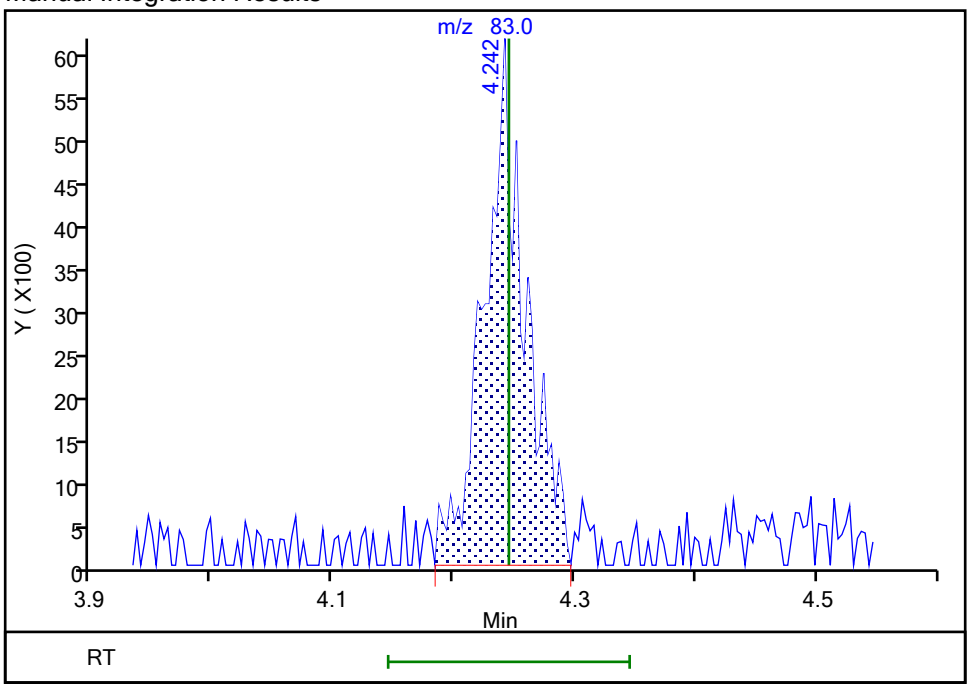
Processing Integration Results

RT: 4.24
Area: 13553
Amount: 0.995229
Amount Units: ug/l



Manual Integration Results

RT: 4.24
Area: 14231
Amount: 1.037636
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:51:27
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

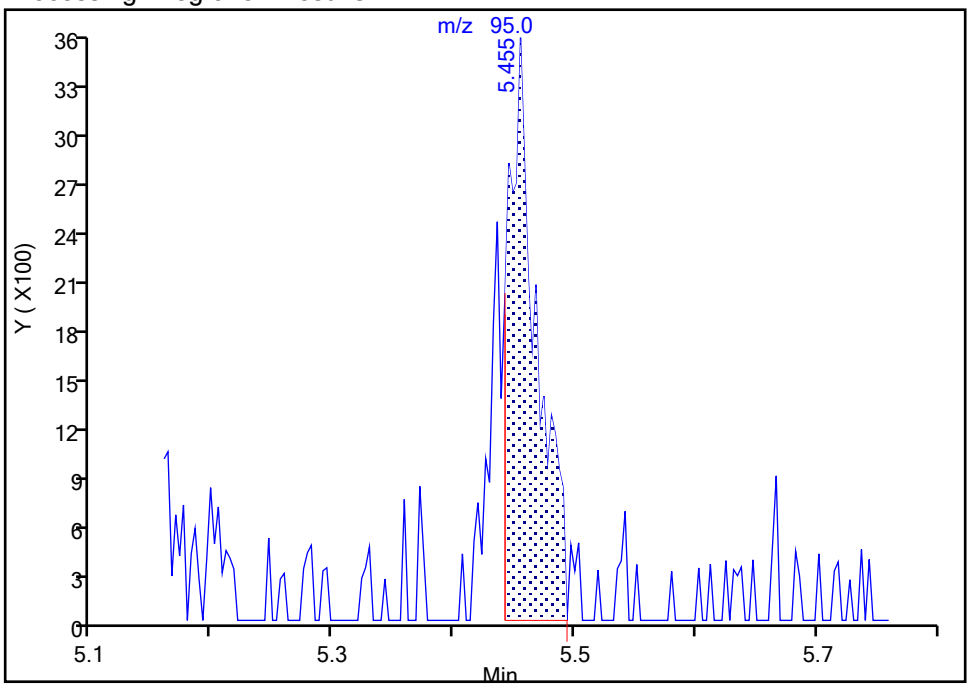
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D
Injection Date: 27-Oct-2022 17:46:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: lcp00895 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

64 Trichloroethene, CAS: 79-01-6

Signal: 1

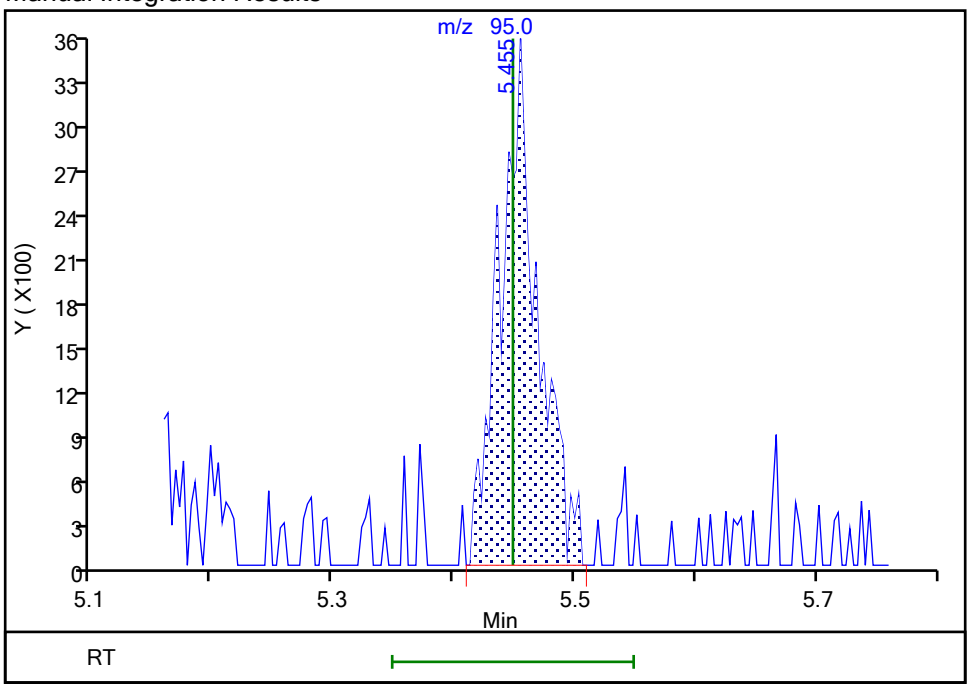
Processing Integration Results

RT: 5.45
Area: 5795
Amount: 0.722863
Amount Units: ug/l



Manual Integration Results

RT: 5.45
Area: 7798
Amount: 0.939192
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:51:43
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

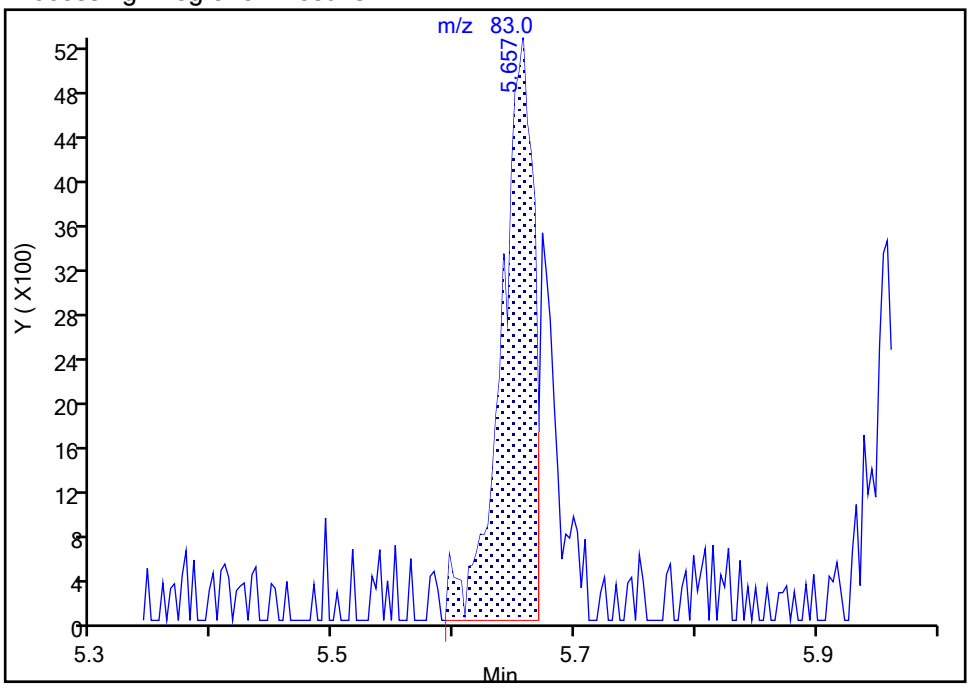
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D
Injection Date: 27-Oct-2022 17:46:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: lcp00895 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

65 Methylcyclohexane, CAS: 108-87-2

Signal: 1

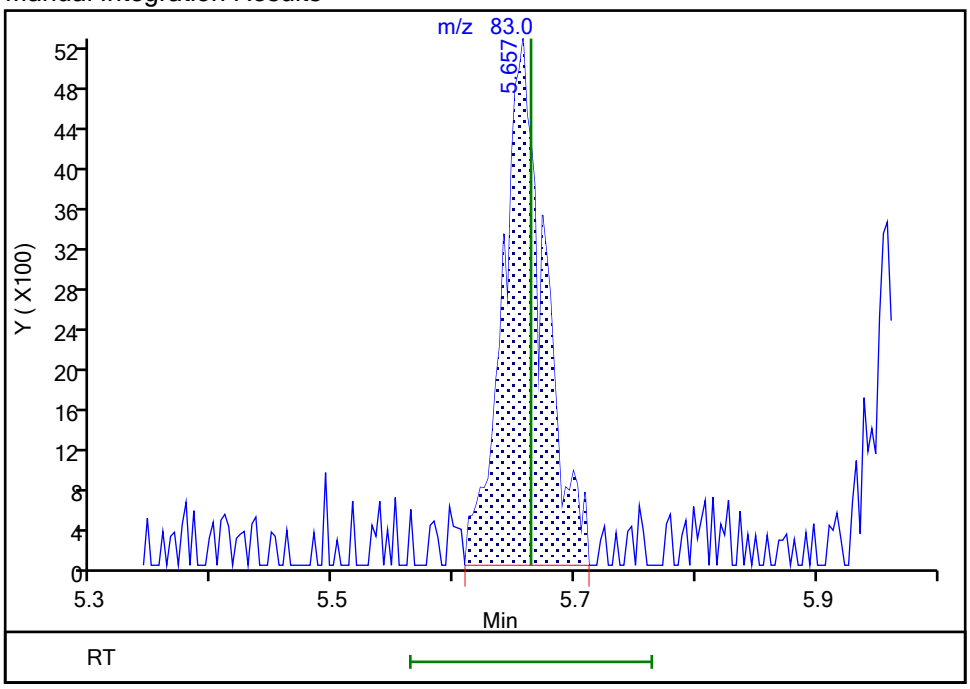
Processing Integration Results

RT: 5.66
Area: 9700
Amount: 0.707824
Amount Units: ug/l



Manual Integration Results

RT: 5.66
Area: 12746
Amount: 0.901470
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:51:48
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

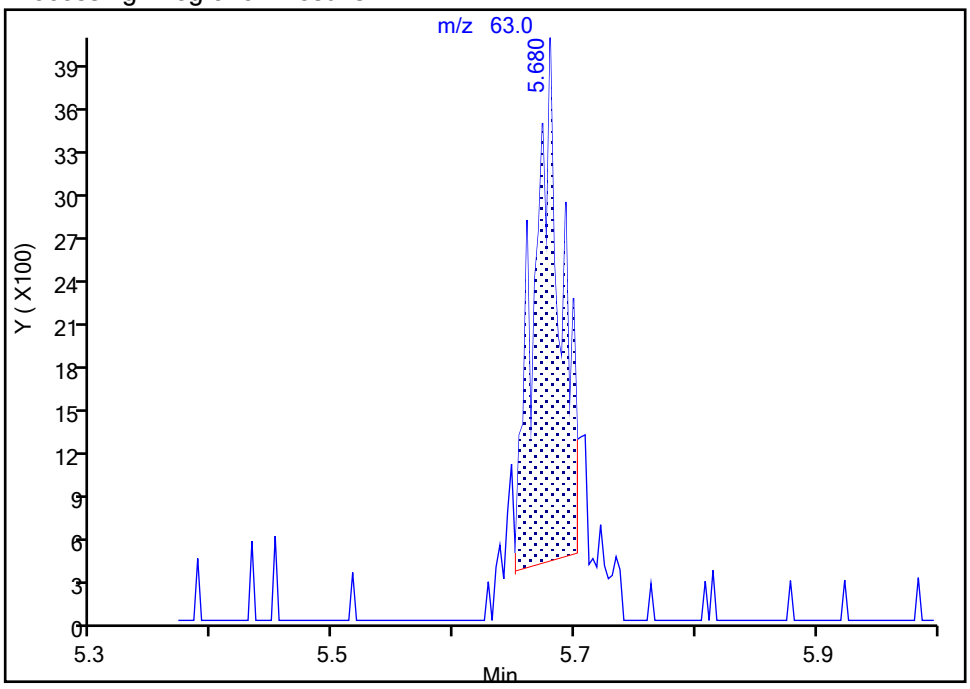
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D
Injection Date: 27-Oct-2022 17:46:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: lcp00895 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

66 1,2-Dichloropropane, CAS: 78-87-5

Signal: 1

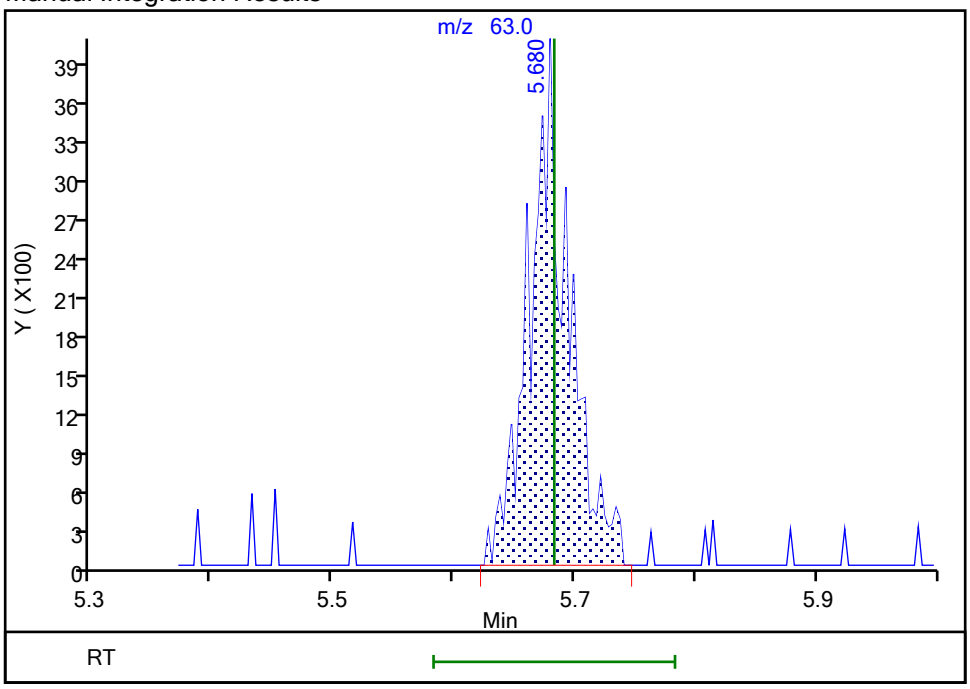
Processing Integration Results

RT: 5.68
Area: 5640
Amount: 0.658005
Amount Units: ug/l



Manual Integration Results

RT: 5.68
Area: 8775
Amount: 0.972922
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:51:52
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

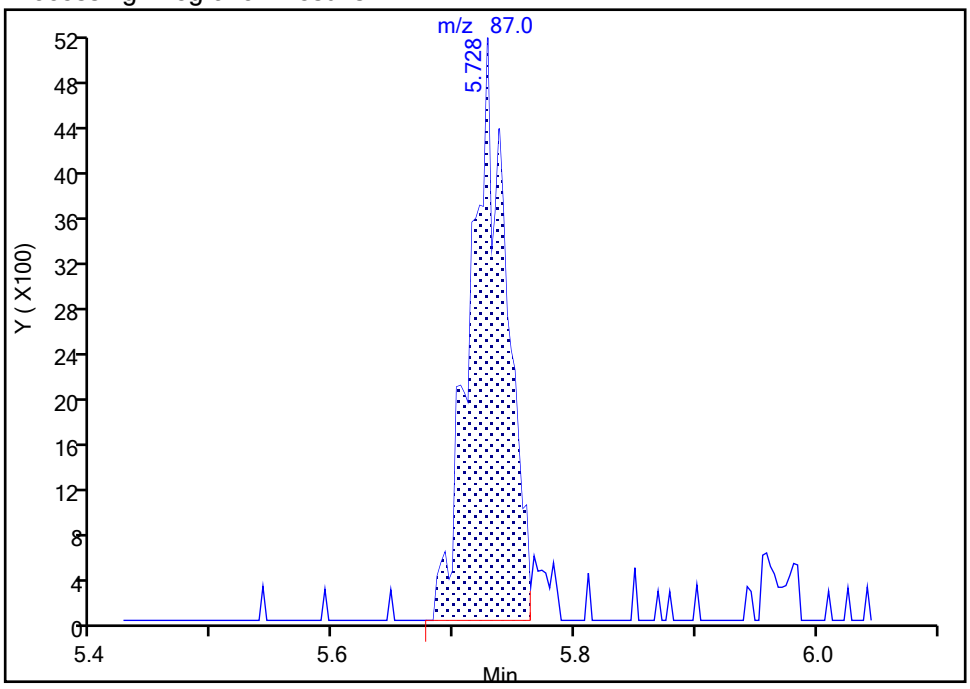
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D
Injection Date: 27-Oct-2022 17:46:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: lcp00895 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

67 2-ethoxy-2-methyl butane, CAS: 919-94-8

Signal: 1

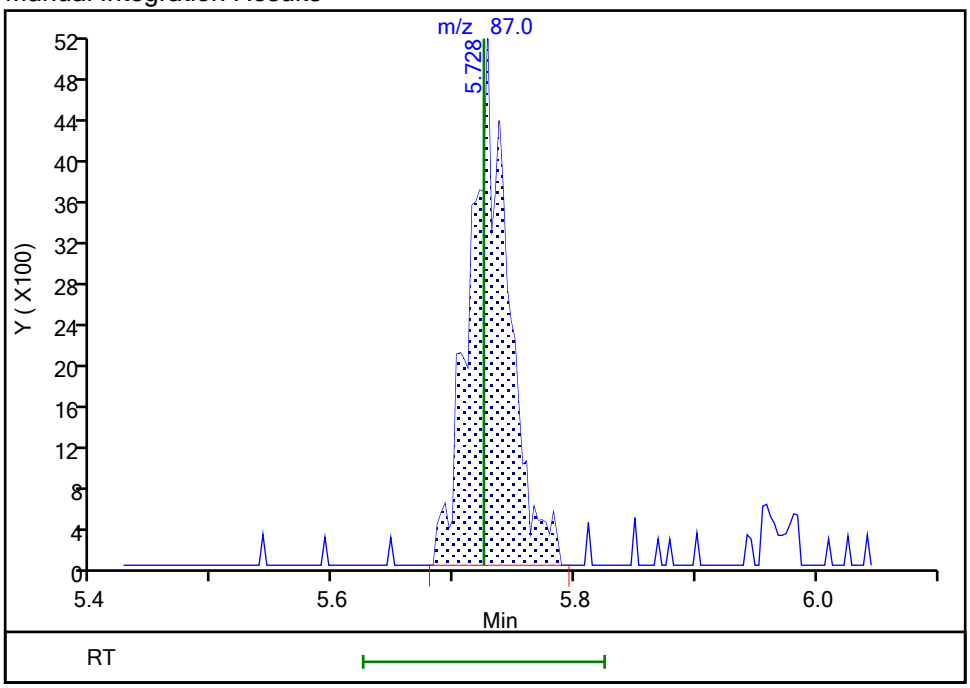
Processing Integration Results

RT: 5.73
Area: 10841
Amount: 0.892307
Amount Units: ug/l



Manual Integration Results

RT: 5.73
Area: 11409
Amount: 0.932828
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:51:57
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

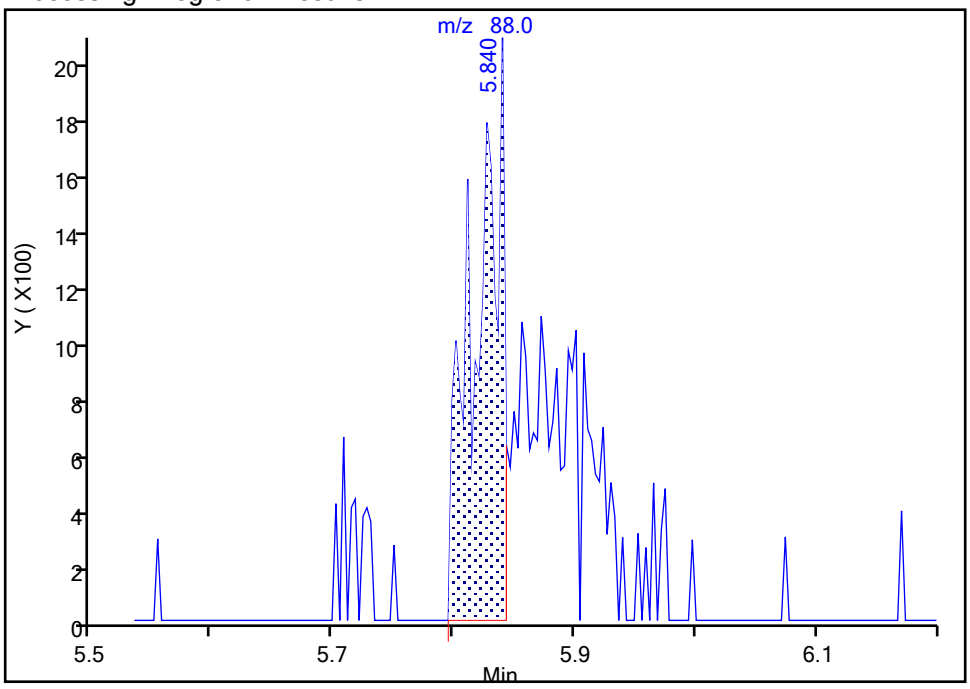
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D
Injection Date: 27-Oct-2022 17:46:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: lcp00895 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

70 1,4-Dioxane, CAS: 123-91-1

Signal: 1

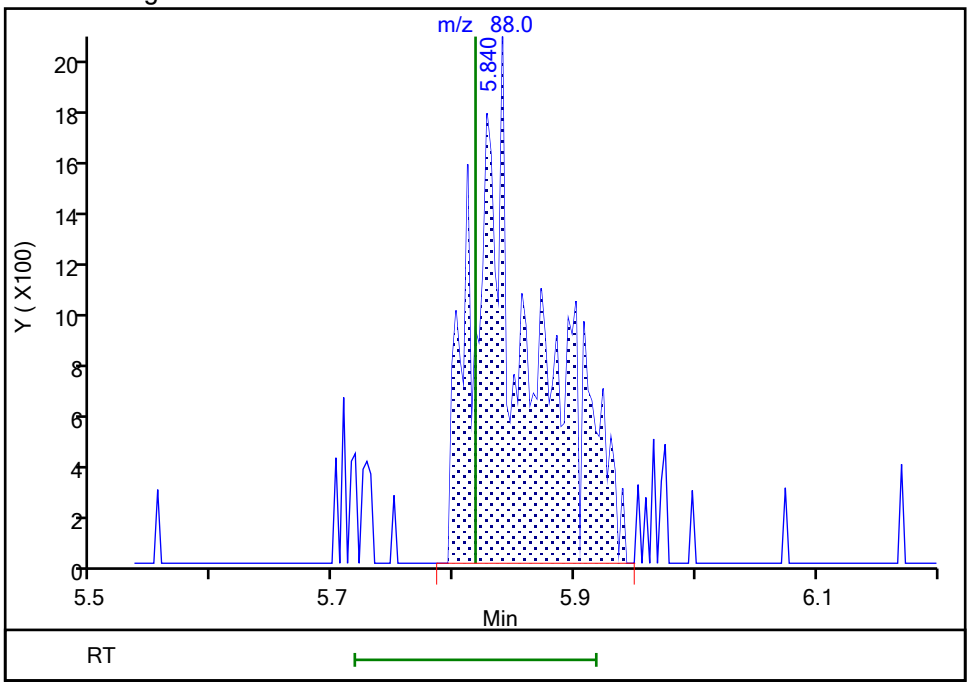
Processing Integration Results

RT: 5.84
Area: 3091
Amount: 48.289330
Amount Units: ug/l



Manual Integration Results

RT: 5.84
Area: 6728
Amount: 41.379620
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:52:02
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

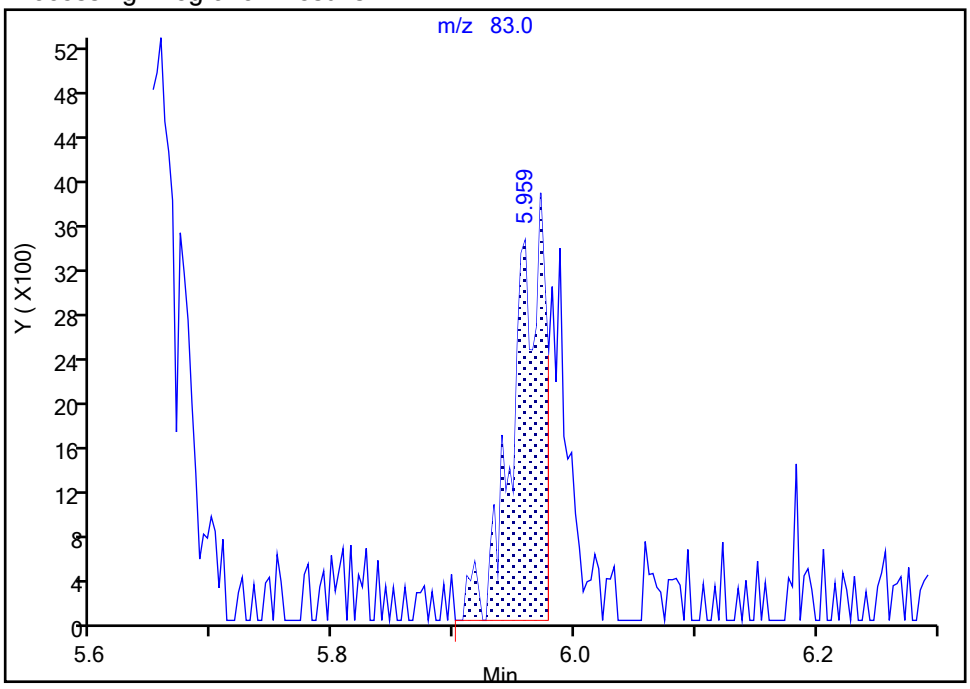
Data File:	\\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D				
Injection Date:	27-Oct-2022 17:46:30	Instrument ID:	9137		
Lims ID:	IC v1				
Client ID:					
Operator ID:	lcp00895	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

72 Dichlorobromomethane, CAS: 75-27-4

Signal: 1

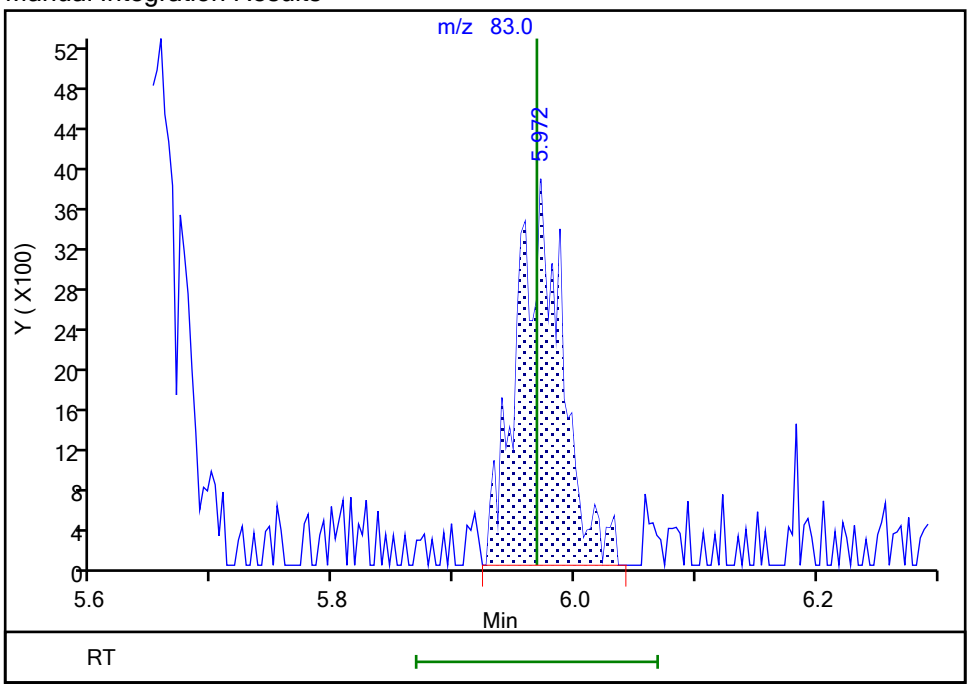
Processing Integration Results

RT: 5.96
Area: 6747
Amount: 0.711697
Amount Units: ug/l



Manual Integration Results

RT: 5.97
Area: 9937
Amount: 1.000114
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:52:10
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

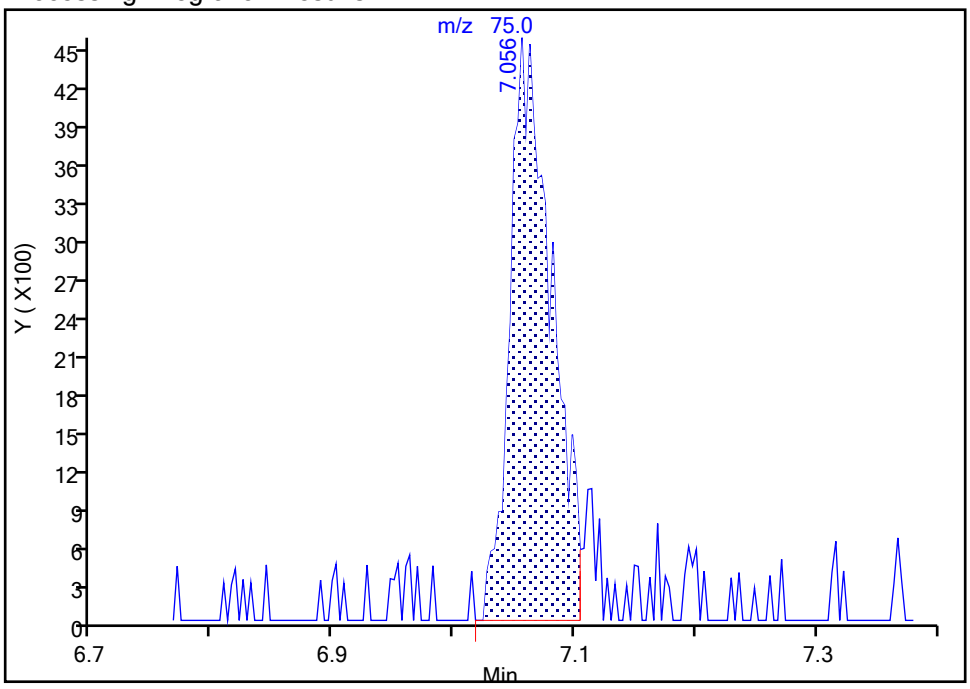
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D
Injection Date: 27-Oct-2022 17:46:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: lcp00895 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

81 trans-1,3-Dichloropropene, CAS: 10061-02-6

Signal: 1

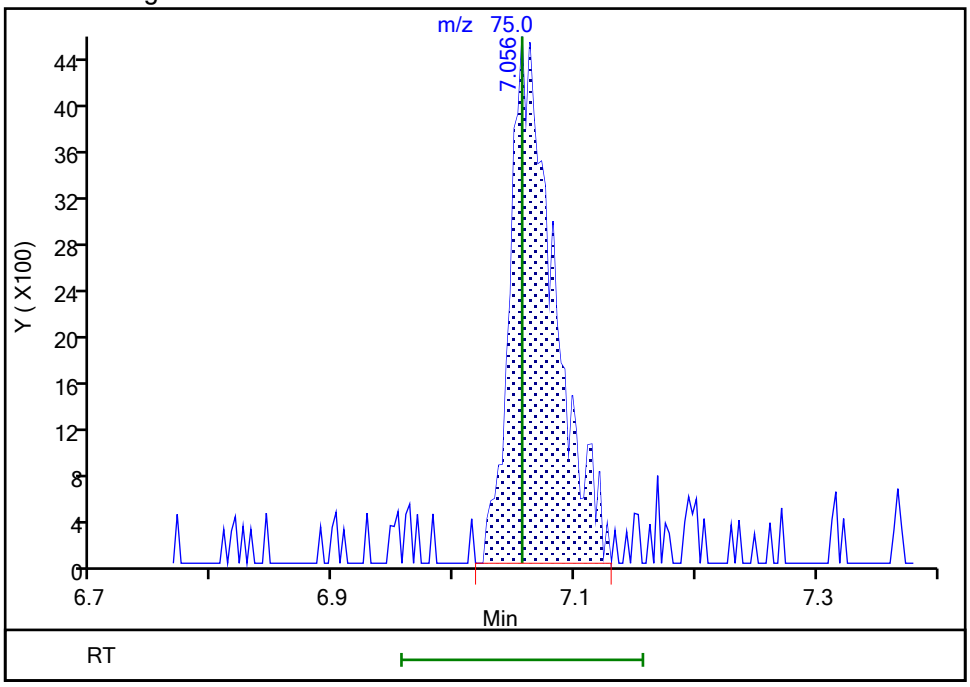
Processing Integration Results

RT: 7.06
Area: 10763
Amount: 0.956430
Amount Units: ug/l



Manual Integration Results

RT: 7.06
Area: 11535
Amount: 1.015084
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:52:20
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

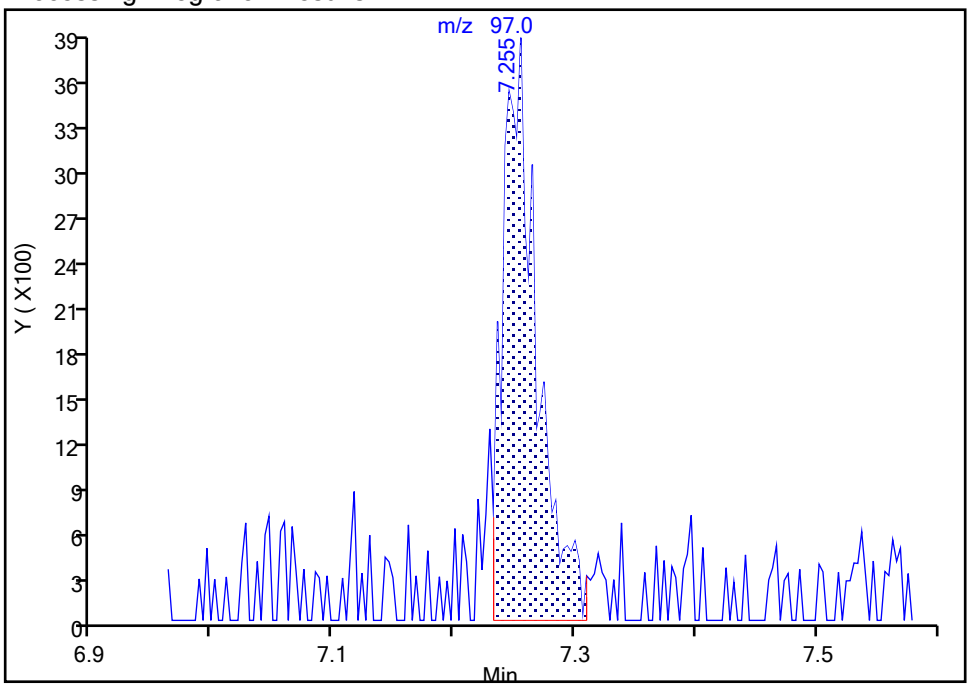
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D
Injection Date: 27-Oct-2022 17:46:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: lcp00895 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

84 1,1,2-Trichloroethane, CAS: 79-00-5

Signal: 1

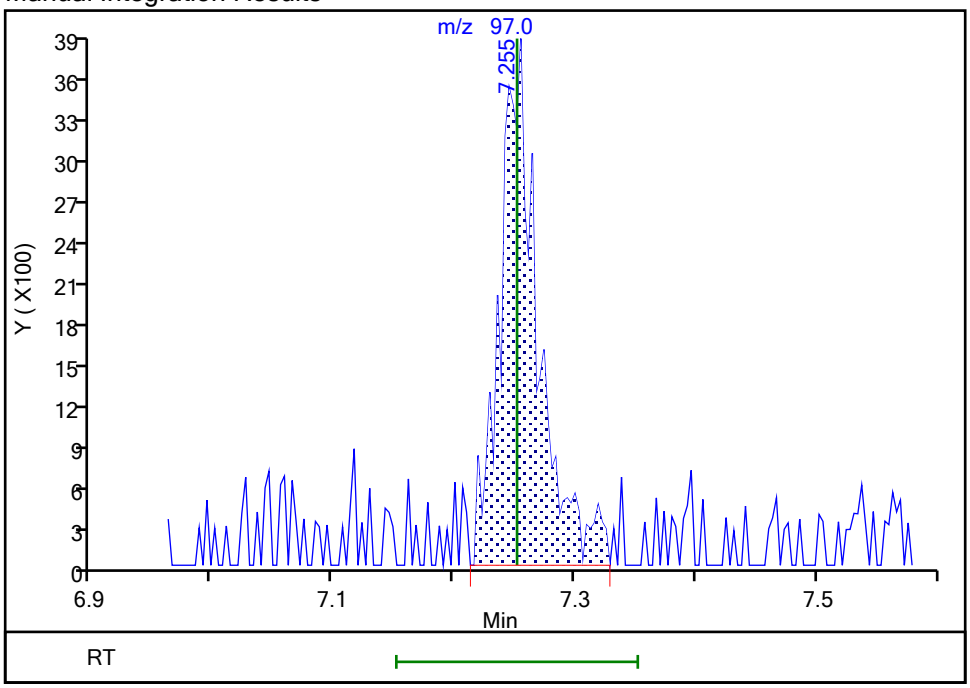
Processing Integration Results

RT: 7.26
Area: 7325
Amount: 1.030516
Amount Units: ug/l



Manual Integration Results

RT: 7.26
Area: 8219
Amount: 1.135879
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:52:25
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

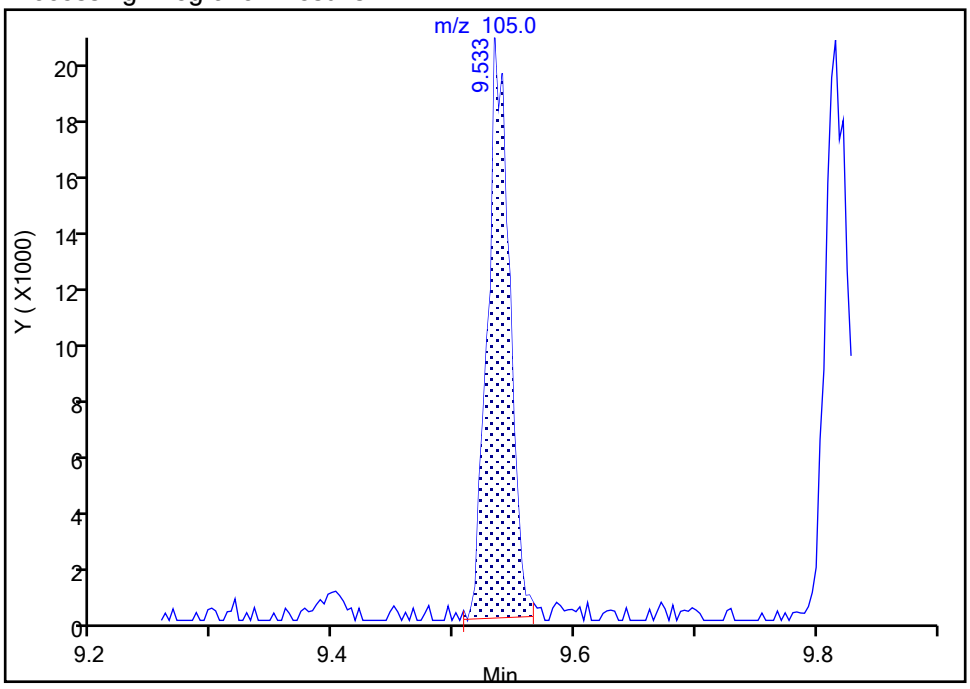
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D
Injection Date: 27-Oct-2022 17:46:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: lcp00895 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

113 1,3,5-Trimethylbenzene, CAS: 108-67-8

Signal: 1

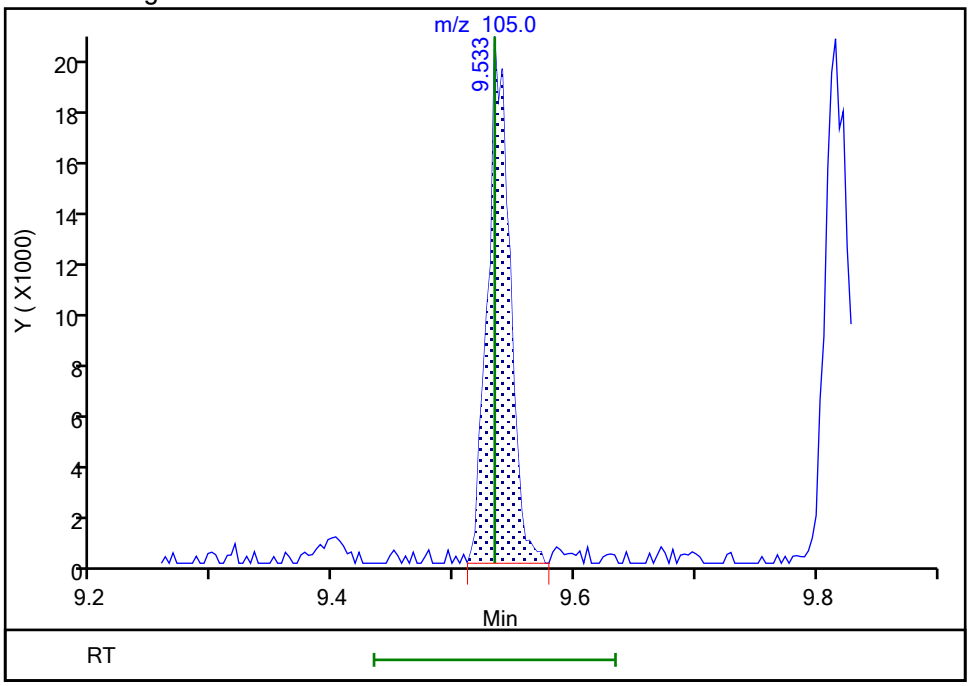
Processing Integration Results

RT: 9.53
Area: 26278
Amount: 0.890848
Amount Units: ug/l



Manual Integration Results

RT: 9.53
Area: 26704
Amount: 0.903426
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 00:52:45
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Calibration / Dichlorodifluoromethane

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

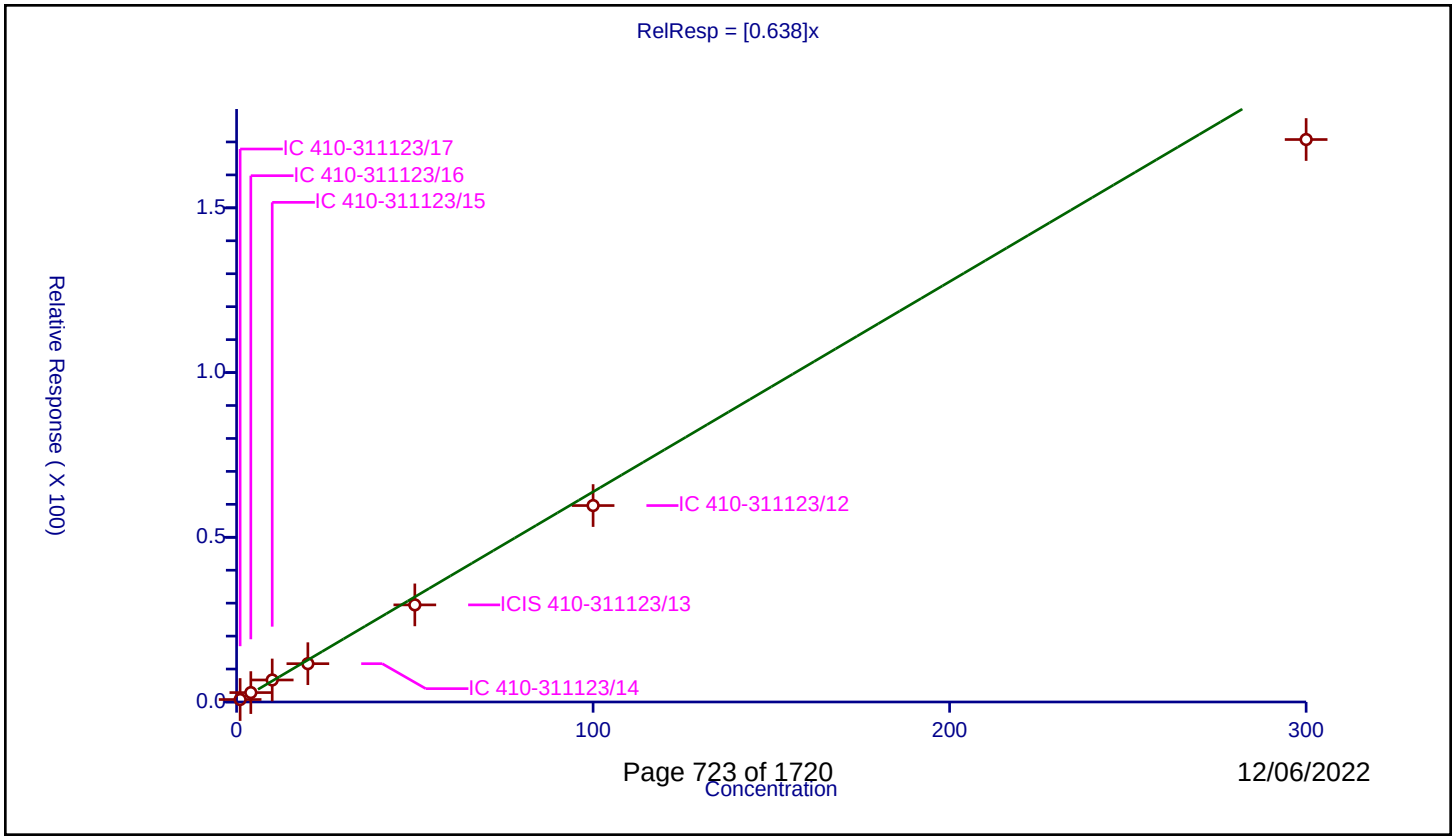
Curve Coefficients

Intercept:	0
Slope:	0.638

Error Coefficients

Standard Error:	2180000
Relative Standard Error:	11.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.748949	50.0	1396224.0	0.748949	Y
2	IC 410-311123/16	4.0	2.850921	50.0	1351563.0	0.71273	Y
3	IC 410-311123/15	10.0	6.67926	50.0	1411017.0	0.667926	Y
4	IC 410-311123/14	20.0	11.628023	50.0	1391350.0	0.581401	Y
5	ICIS 410-311123/13	50.0	29.480319	50.0	1392317.0	0.589606	Y
6	IC 410-311123/12	100.0	59.631996	50.0	1410907.0	0.59632	Y
7	IC 410-311123/11	300.0	170.741281	50.0	1460539.0	0.569138	Y



Calibration / Chloromethane

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

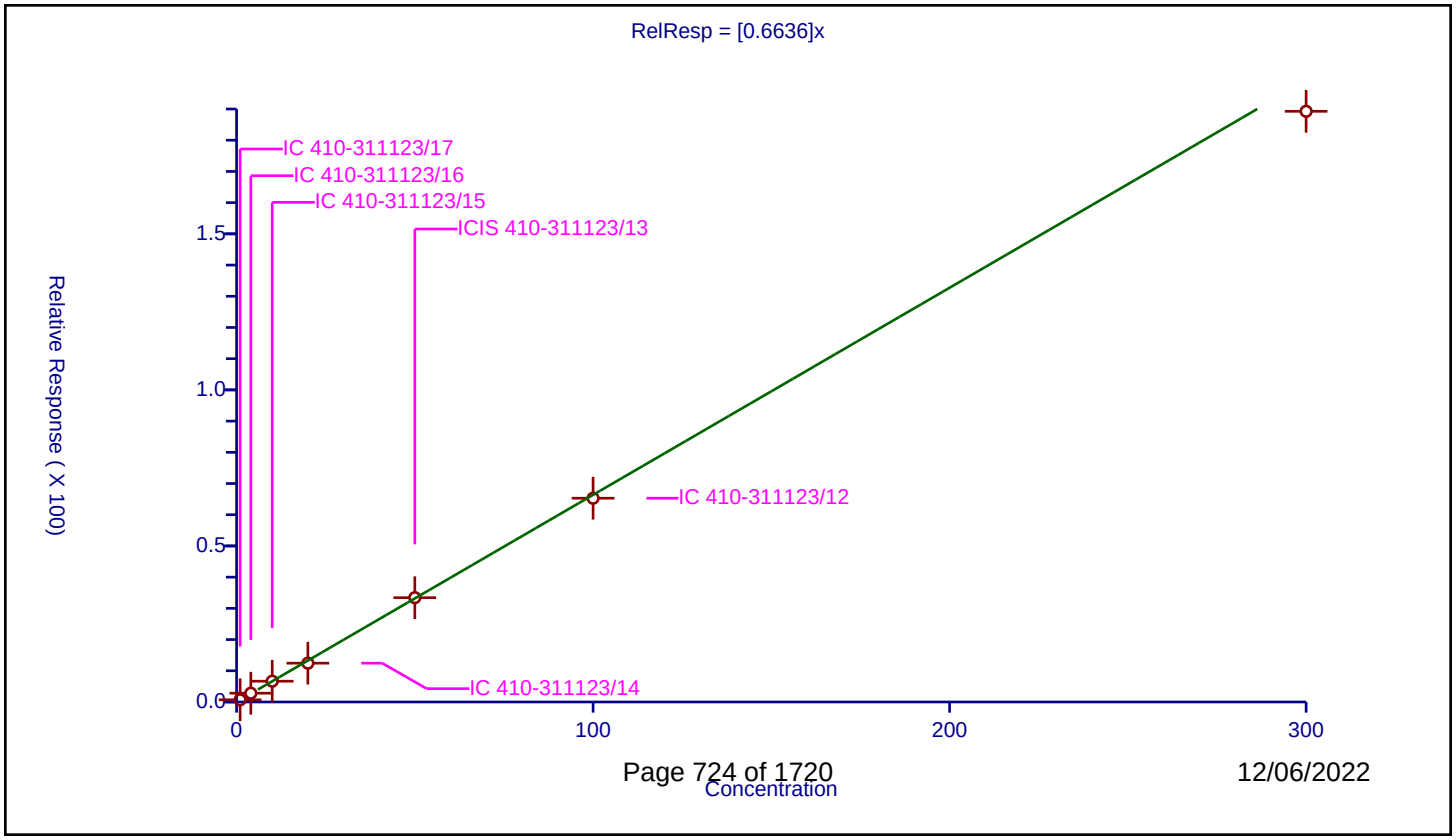
Curve Coefficients

Intercept:	0
Slope:	0.6636

Error Coefficients

Standard Error:	2410000
Relative Standard Error:	4.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.701392	50.0	1396224.0	0.701392	Y
2	IC 410-311123/16	4.0	2.815555	50.0	1351563.0	0.703889	Y
3	IC 410-311123/15	10.0	6.661117	50.0	1411017.0	0.666112	Y
4	IC 410-311123/14	20.0	12.439322	50.0	1391350.0	0.621966	Y
5	ICIS 410-311123/13	50.0	33.419221	50.0	1392317.0	0.668384	Y
6	IC 410-311123/12	100.0	65.288711	50.0	1410907.0	0.652887	Y
7	IC 410-311123/11	300.0	189.269304	50.0	1460539.0	0.630898	Y



Calibration / Butadiene

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

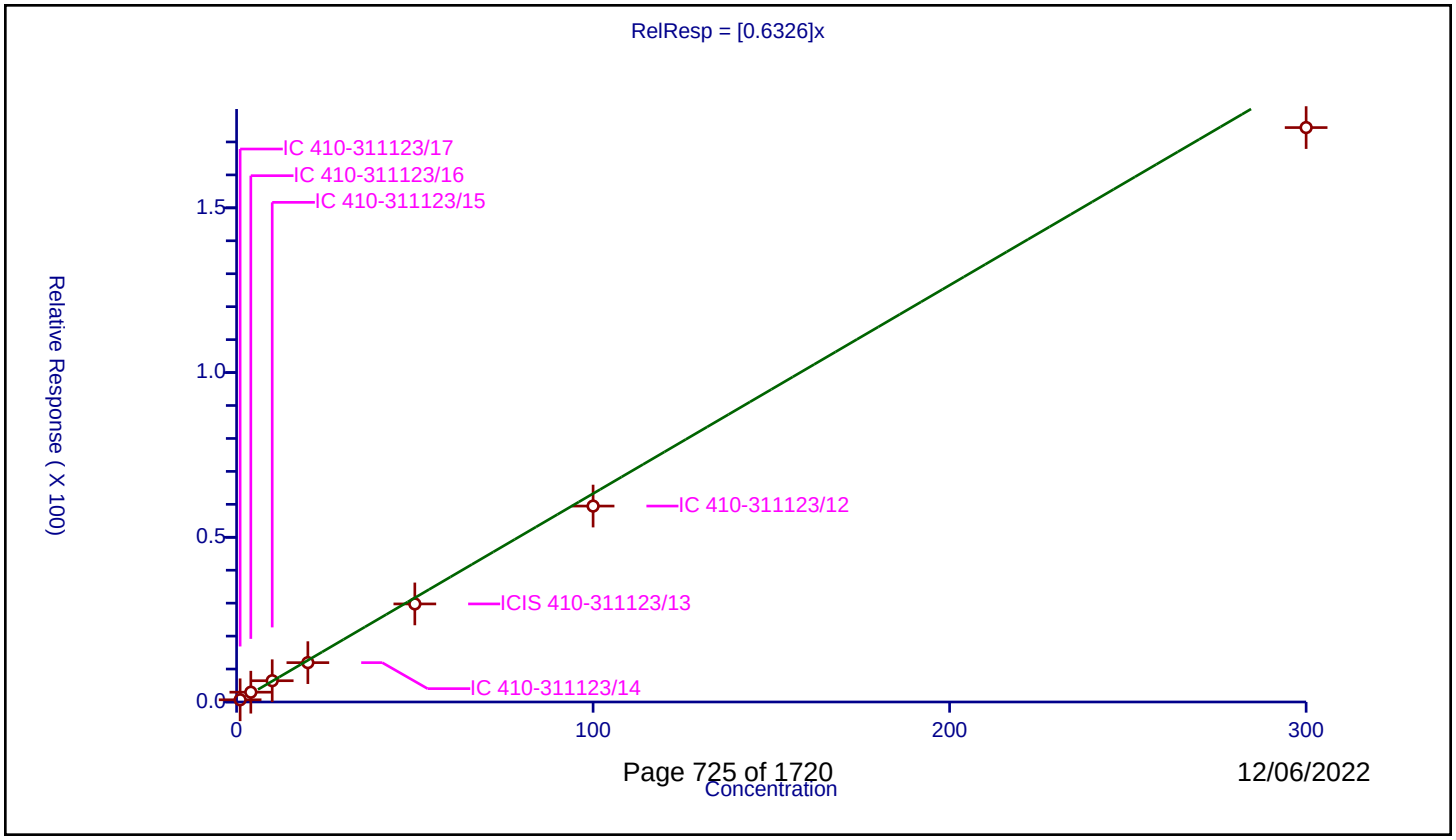
Curve Coefficients

Intercept:	0
Slope:	0.6326

Error Coefficients

Standard Error:	2220000
Relative Standard Error:	9.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.669448	50.0	1396224.0	0.669448	Y
2	IC 410-311123/16	4.0	2.976443	50.0	1351563.0	0.744111	Y
3	IC 410-311123/15	10.0	6.458781	50.0	1411017.0	0.645878	Y
4	IC 410-311123/14	20.0	11.944119	50.0	1391350.0	0.597206	Y
5	ICIS 410-311123/13	50.0	29.767144	50.0	1392317.0	0.595343	Y
6	IC 410-311123/12	100.0	59.472417	50.0	1410907.0	0.594724	Y
7	IC 410-311123/11	300.0	174.36888	50.0	1460539.0	0.58123	Y



Calibration / Vinyl chloride

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

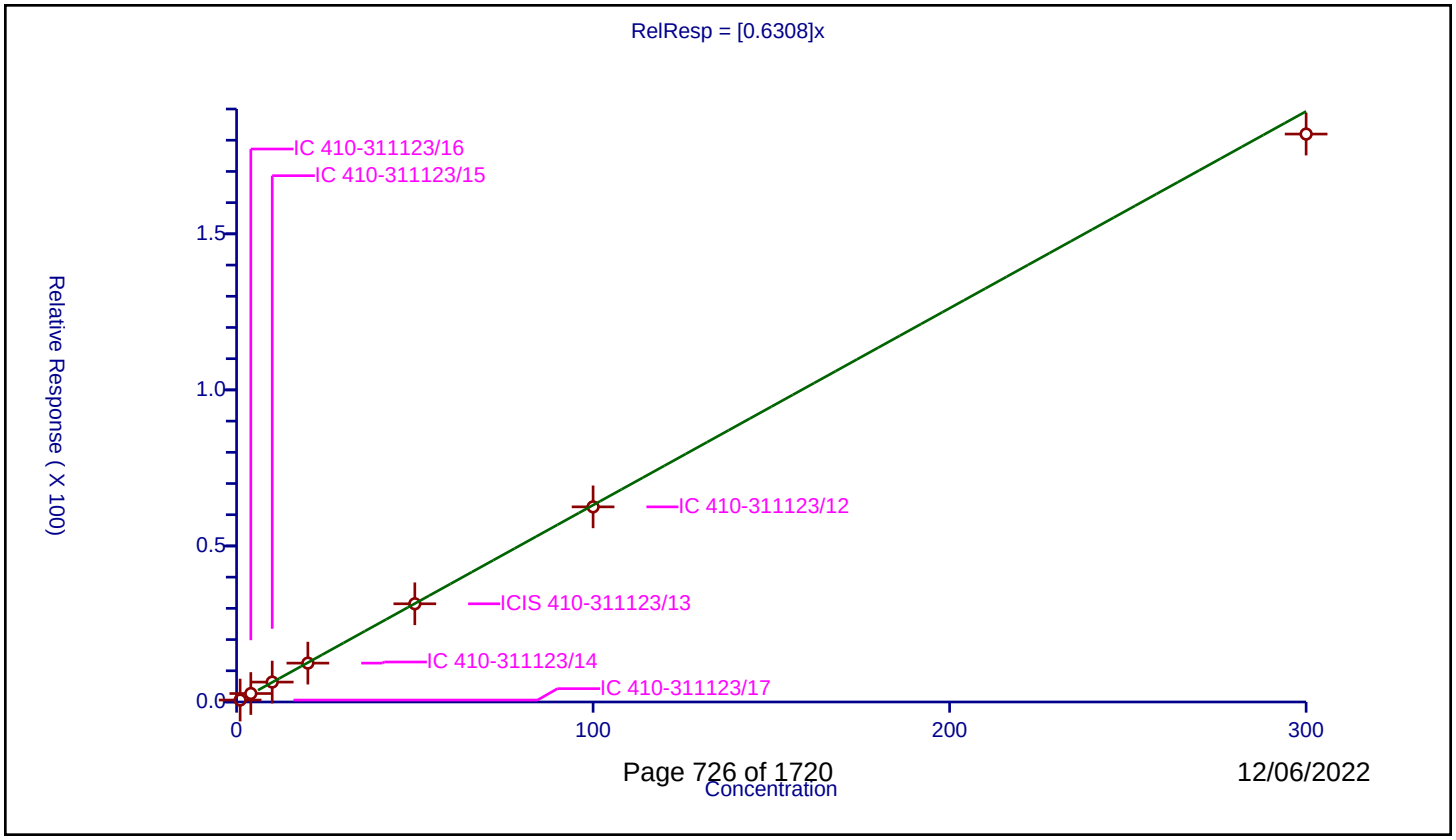
Curve Coefficients

Intercept:	0
Slope:	0.6308

Error Coefficients

Standard Error:	2320000
Relative Standard Error:	3.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.615625	50.0	1396224.0	0.615625	Y
2	IC 410-311123/16	4.0	2.713969	50.0	1351563.0	0.678492	Y
3	IC 410-311123/15	10.0	6.380646	50.0	1411017.0	0.638065	Y
4	IC 410-311123/14	20.0	12.450713	50.0	1391350.0	0.622536	Y
5	ICIS 410-311123/13	50.0	31.466002	50.0	1392317.0	0.62932	Y
6	IC 410-311123/12	100.0	62.528005	50.0	1410907.0	0.62528	Y
7	IC 410-311123/11	300.0	181.980351	50.0	1460539.0	0.606601	Y



Calibration / Bromomethane

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

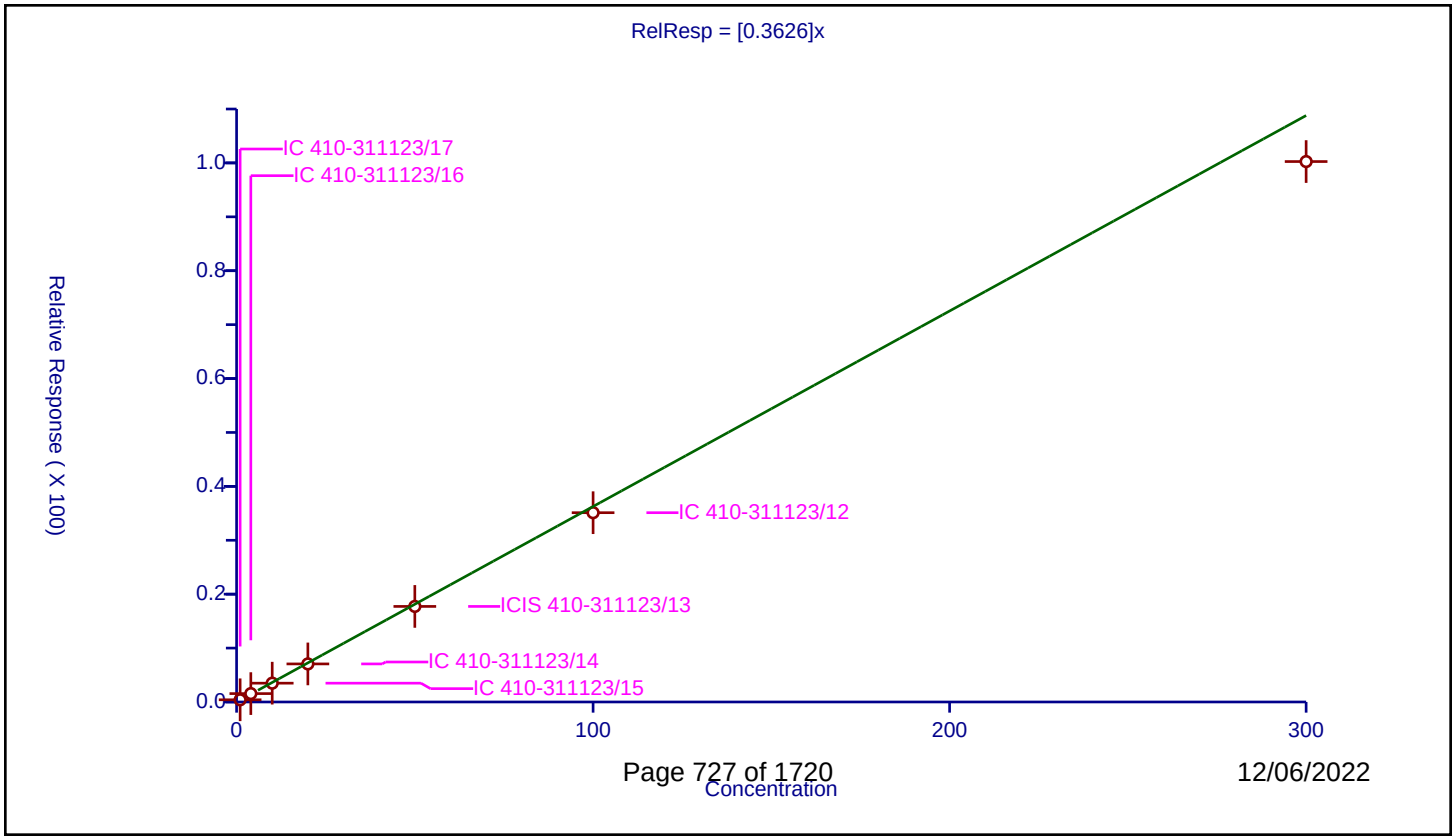
Curve Coefficients

Intercept:	0
Slope:	0.3626

Error Coefficients

Standard Error:	1280000
Relative Standard Error:	7.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.406991	50.0	1396224.0	0.406991	Y
2	IC 410-311123/16	4.0	1.557493	50.0	1351563.0	0.389373	Y
3	IC 410-311123/15	10.0	3.49156	50.0	1411017.0	0.349156	Y
4	IC 410-311123/14	20.0	7.062601	50.0	1391350.0	0.35313	Y
5	ICIS 410-311123/13	50.0	17.728111	50.0	1392317.0	0.354562	Y
6	IC 410-311123/12	100.0	35.112874	50.0	1410907.0	0.351129	Y
7	IC 410-311123/11	300.0	100.254529	50.0	1460539.0	0.334182	Y



12/06/2022

Calibration / Chloroethane

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

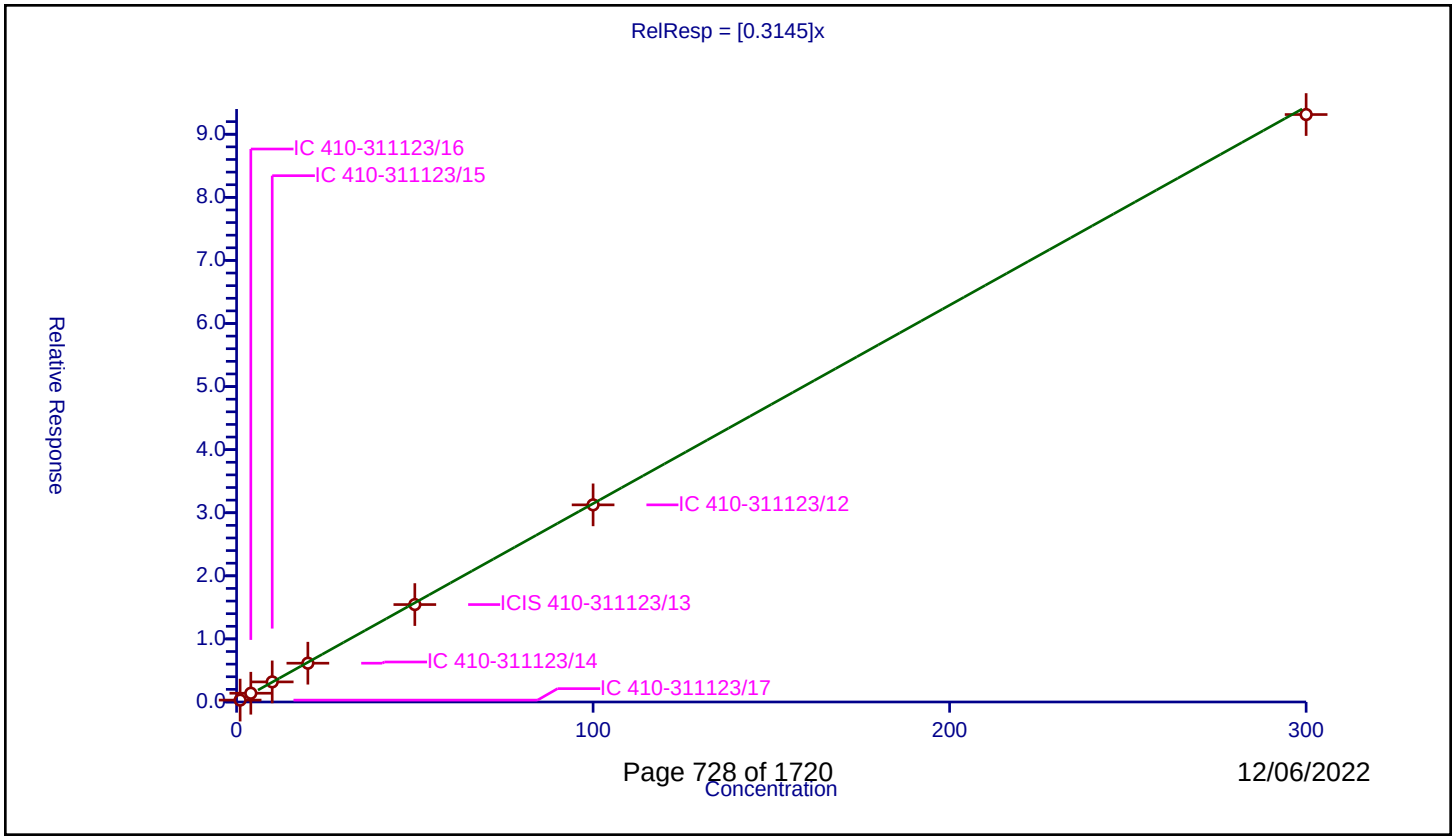
Curve Coefficients

Intercept:	0
Slope:	0.3145

Error Coefficients

Standard Error:	1180000
Relative Standard Error:	4.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.297159	50.0	1396224.0	0.297159	Y
2	IC 410-311123/16	4.0	1.38658	50.0	1351563.0	0.346645	Y
3	IC 410-311123/15	10.0	3.18639	50.0	1411017.0	0.318639	Y
4	IC 410-311123/14	20.0	6.147051	50.0	1391350.0	0.307353	Y
5	ICIS 410-311123/13	50.0	15.445728	50.0	1392317.0	0.308915	Y
6	IC 410-311123/12	100.0	31.248587	50.0	1410907.0	0.312486	Y
7	IC 410-311123/11	300.0	93.125107	50.0	1460539.0	0.310417	Y



Calibration / Dichlorofluoromethane

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

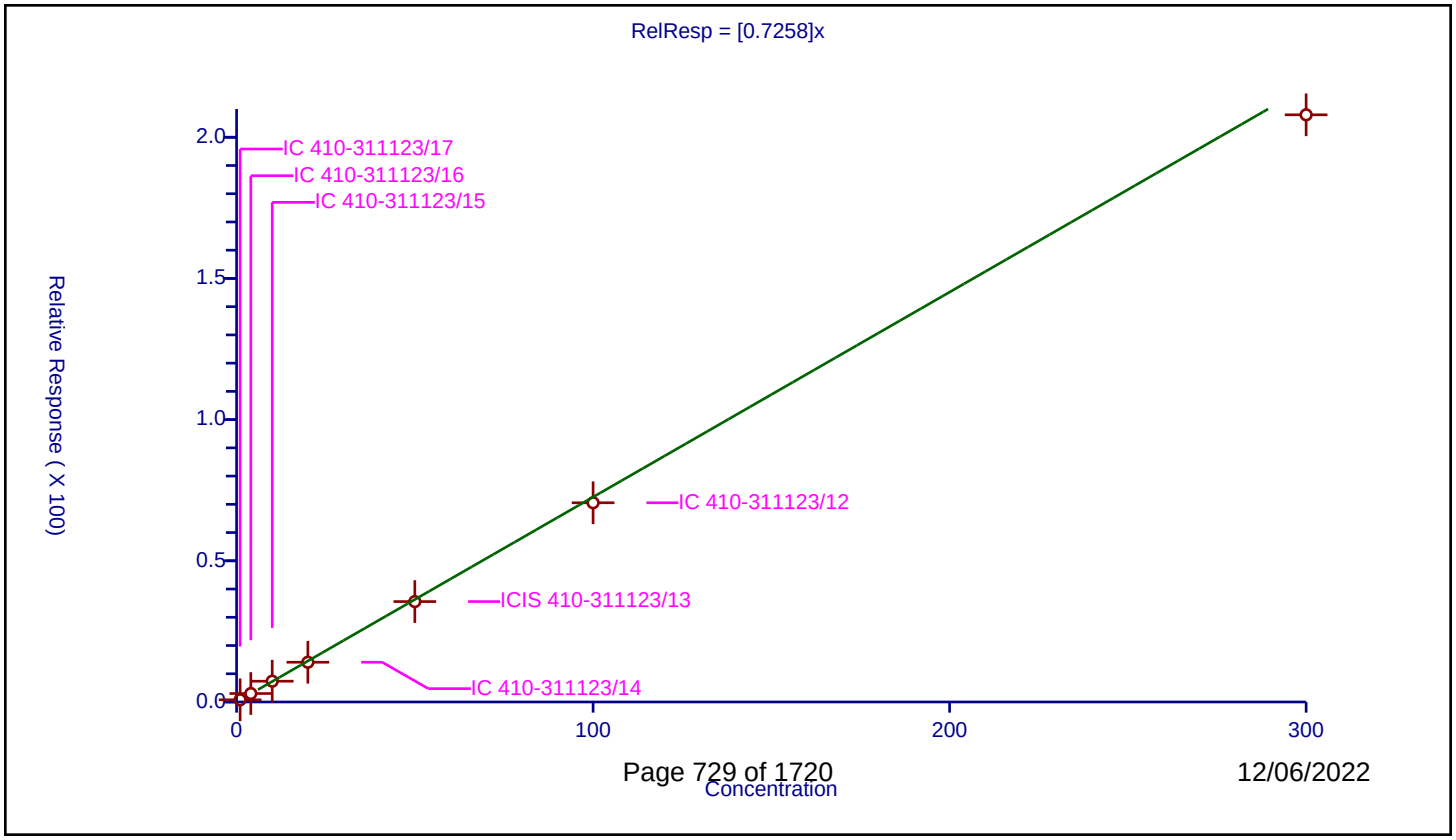
Curve Coefficients

Intercept:	0
Slope:	0.7258

Error Coefficients

Standard Error:	2650000
Relative Standard Error:	4.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.781859	50.0	1396224.0	0.781859	Y
2	IC 410-311123/16	4.0	2.995643	50.0	1351563.0	0.748911	Y
3	IC 410-311123/15	10.0	7.36079	50.0	1411017.0	0.736079	Y
4	IC 410-311123/14	20.0	14.076005	50.0	1391350.0	0.7038	Y
5	ICIS 410-311123/13	50.0	35.562268	50.0	1392317.0	0.711245	Y
6	IC 410-311123/12	100.0	70.552737	50.0	1410907.0	0.705527	Y
7	IC 410-311123/11	300.0	207.950147	50.0	1460539.0	0.693167	Y



Calibration / Trichlorofluoromethane

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

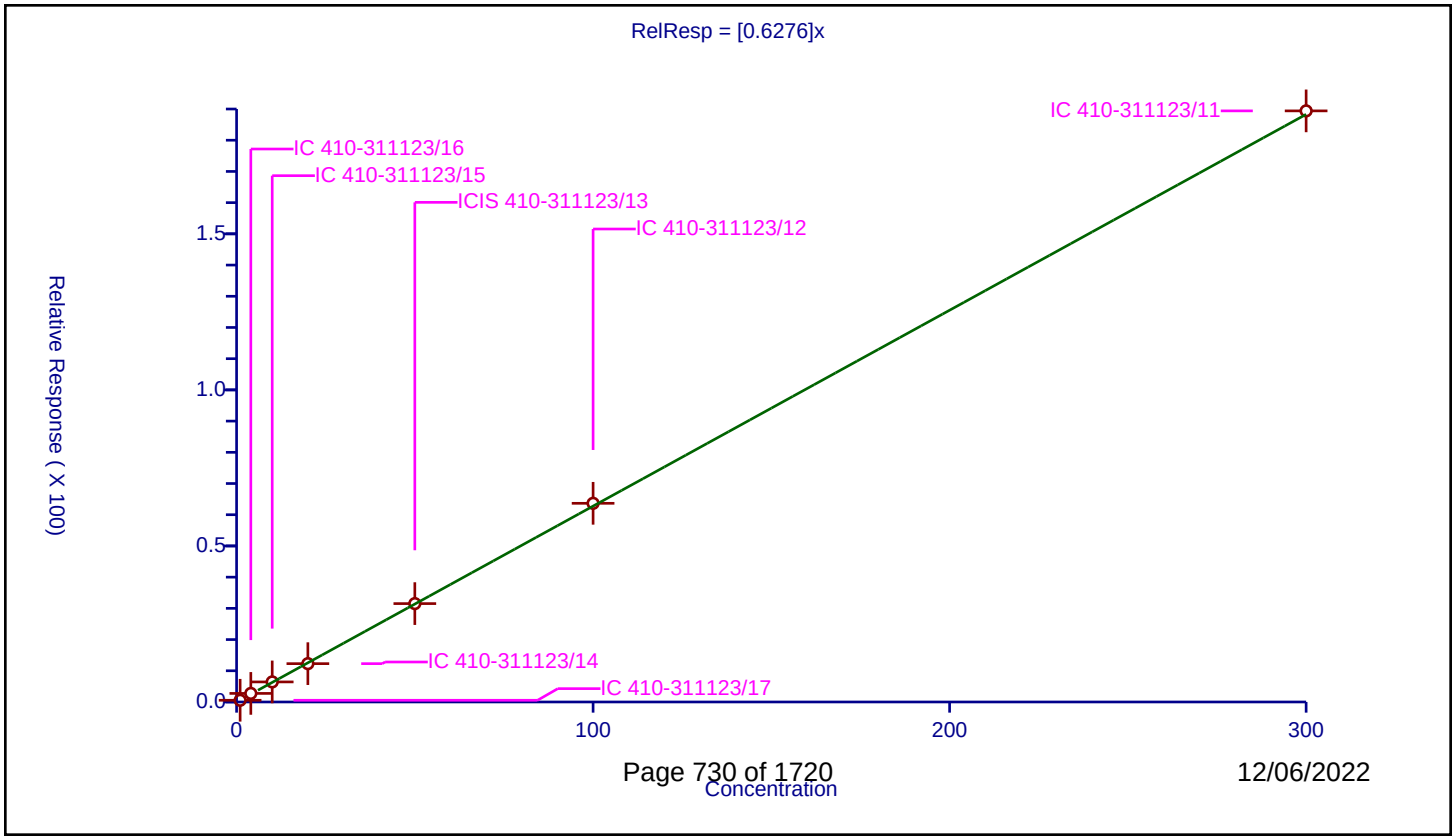
Curve Coefficients

Intercept:	0
Slope:	0.6276

Error Coefficients

Standard Error:	2410000
Relative Standard Error:	6.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.55138	50.0	1396224.0	0.55138	Y
2	IC 410-311123/16	4.0	2.746191	50.0	1351563.0	0.686548	Y
3	IC 410-311123/15	10.0	6.428838	50.0	1411017.0	0.642884	Y
4	IC 410-311123/14	20.0	12.284723	50.0	1391350.0	0.614236	Y
5	ICIS 410-311123/13	50.0	31.524897	50.0	1392317.0	0.630498	Y
6	IC 410-311123/12	100.0	63.659547	50.0	1410907.0	0.636595	Y
7	IC 410-311123/11	300.0	189.402097	50.0	1460539.0	0.63134	Y



Calibration / Pentane

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

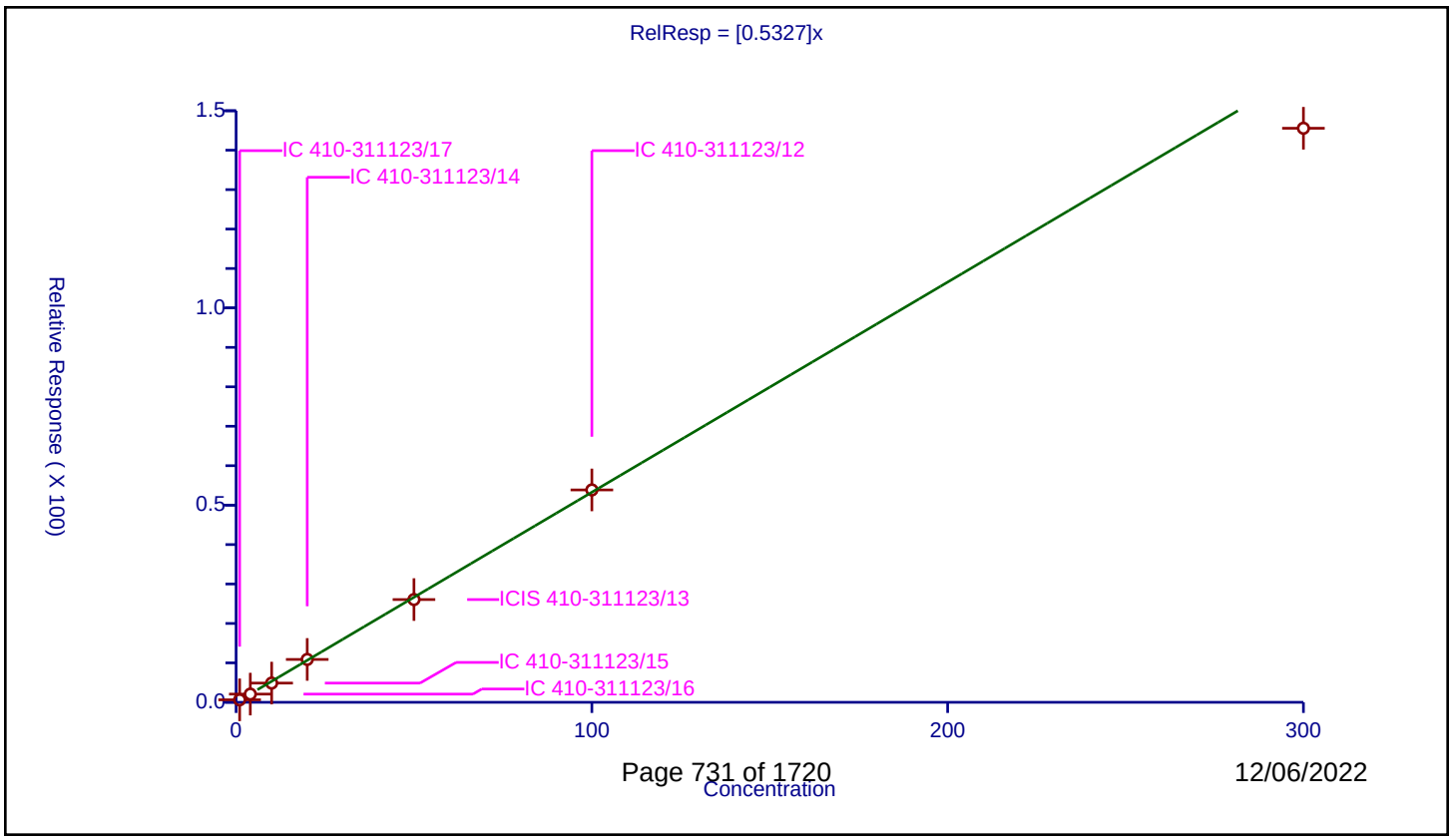
Curve Coefficients

Intercept:	0
Slope:	0.5327

Error Coefficients

Standard Error:	1870000
Relative Standard Error:	9.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.631954	50.0	1396224.0	0.631954	Y
2	IC 410-311123/16	4.0	2.084106	50.0	1351563.0	0.521026	Y
3	IC 410-311123/15	10.0	4.876447	50.0	1411017.0	0.487645	Y
4	IC 410-311123/14	20.0	10.873396	50.0	1391350.0	0.54367	Y
5	ICIS 410-311123/13	50.0	26.055489	50.0	1392317.0	0.52111	Y
6	IC 410-311123/12	100.0	53.856881	50.0	1410907.0	0.538569	Y
7	IC 410-311123/11	300.0	145.564172	50.0	1460539.0	0.485214	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

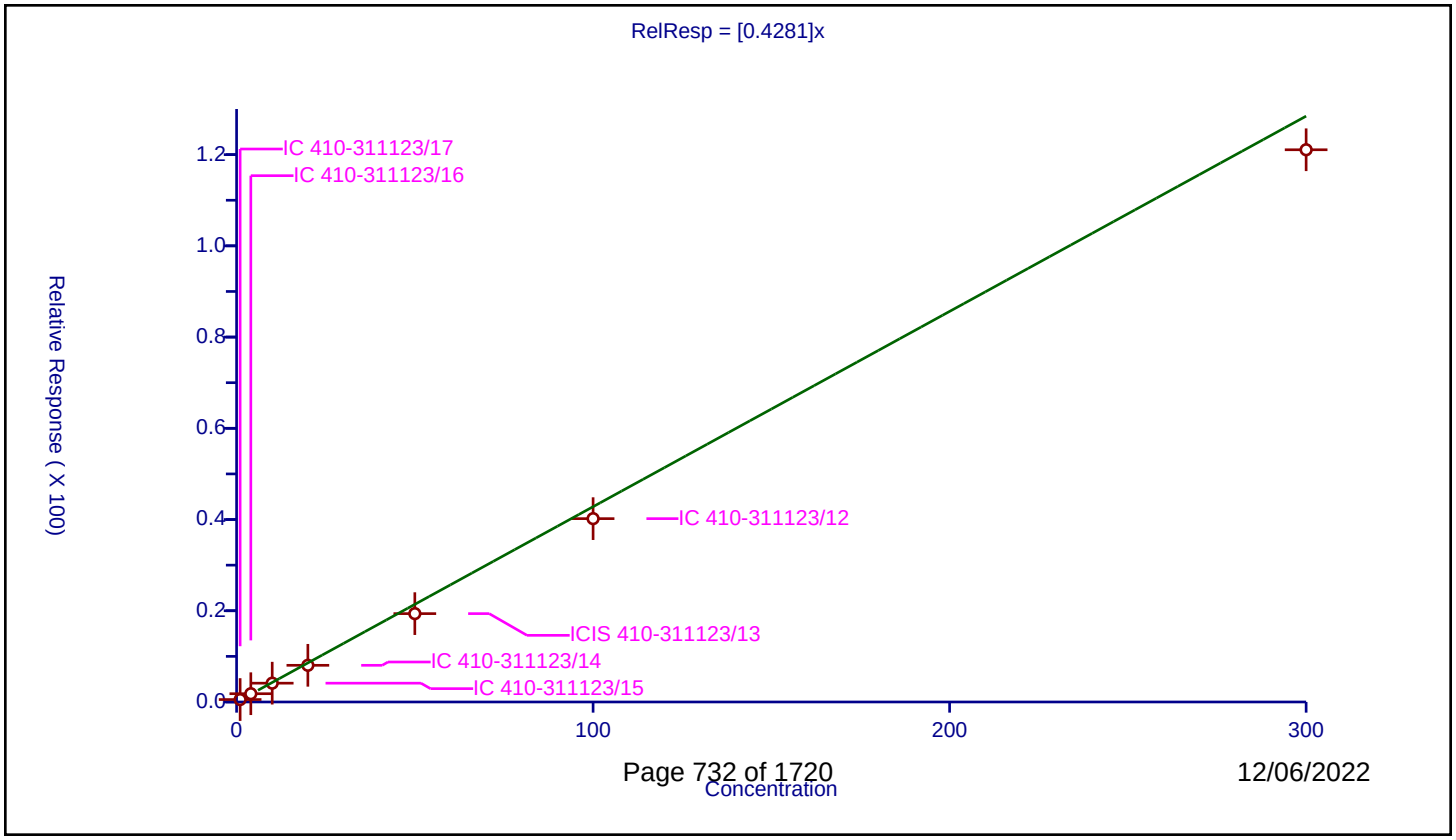
Curve Coefficients

Intercept:	0
Slope:	0.4281

Error Coefficients

Standard Error:	1540000
Relative Standard Error:	12.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.535408	50.0	1396224.0	0.535408	Y
2	IC 410-311123/16	4.0	1.814714	50.0	1351563.0	0.453678	Y
3	IC 410-311123/15	10.0	4.126846	50.0	1411017.0	0.412685	Y
4	IC 410-311123/14	20.0	8.043914	50.0	1391350.0	0.402196	Y
5	ICIS 410-311123/13	50.0	19.373893	50.0	1392317.0	0.387478	Y
6	IC 410-311123/12	100.0	40.193613	50.0	1410907.0	0.401936	Y
7	IC 410-311123/11	300.0	121.069003	50.0	1460539.0	0.403563	Y



Calibration / Ethanol

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

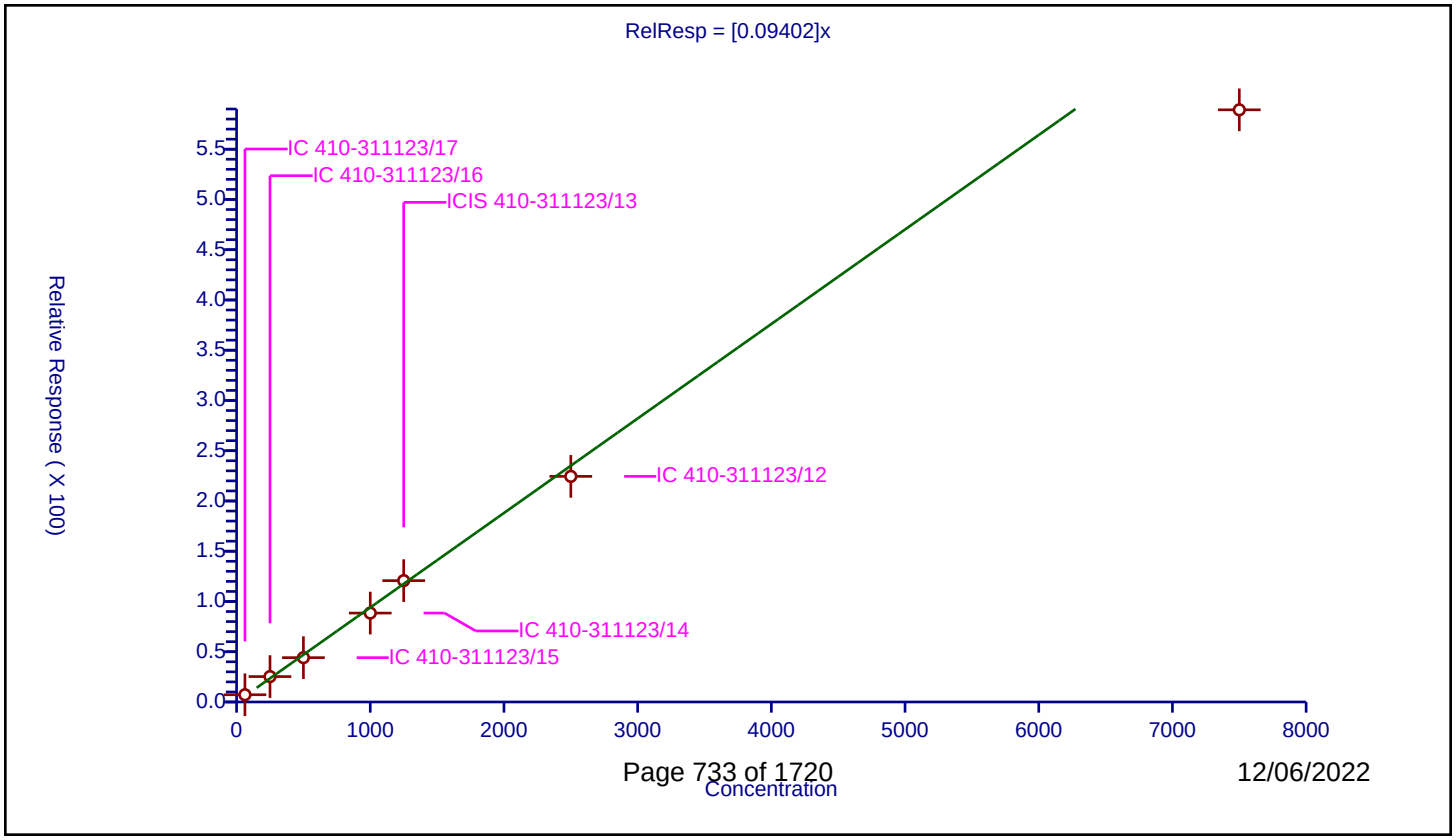
Curve Coefficients

Intercept:	0
Slope:	0.09402

Error Coefficients

Standard Error:	787000
Relative Standard Error:	12.6
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	62.50159	7.21515	250.0	601720.0	0.115439	Y
2	IC 410-311123/16	250.00636	25.279354	250.0	723545.0	0.101115	Y
3	IC 410-311123/15	500.01272	44.100406	250.0	751450.0	0.088199	Y
4	IC 410-311123/14	1000.02544	88.470198	250.0	750620.0	0.088468	Y
5	ICIS 410-311123/13	1250.0318	120.745609	250.0	746464.0	0.096594	Y
6	IC 410-311123/12	2500.0636	224.492636	250.0	758183.0	0.089795	Y
7	IC 410-311123/11	7500.1908	589.198555	250.0	739202.0	0.078558	Y



Calibration / Acrolein

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

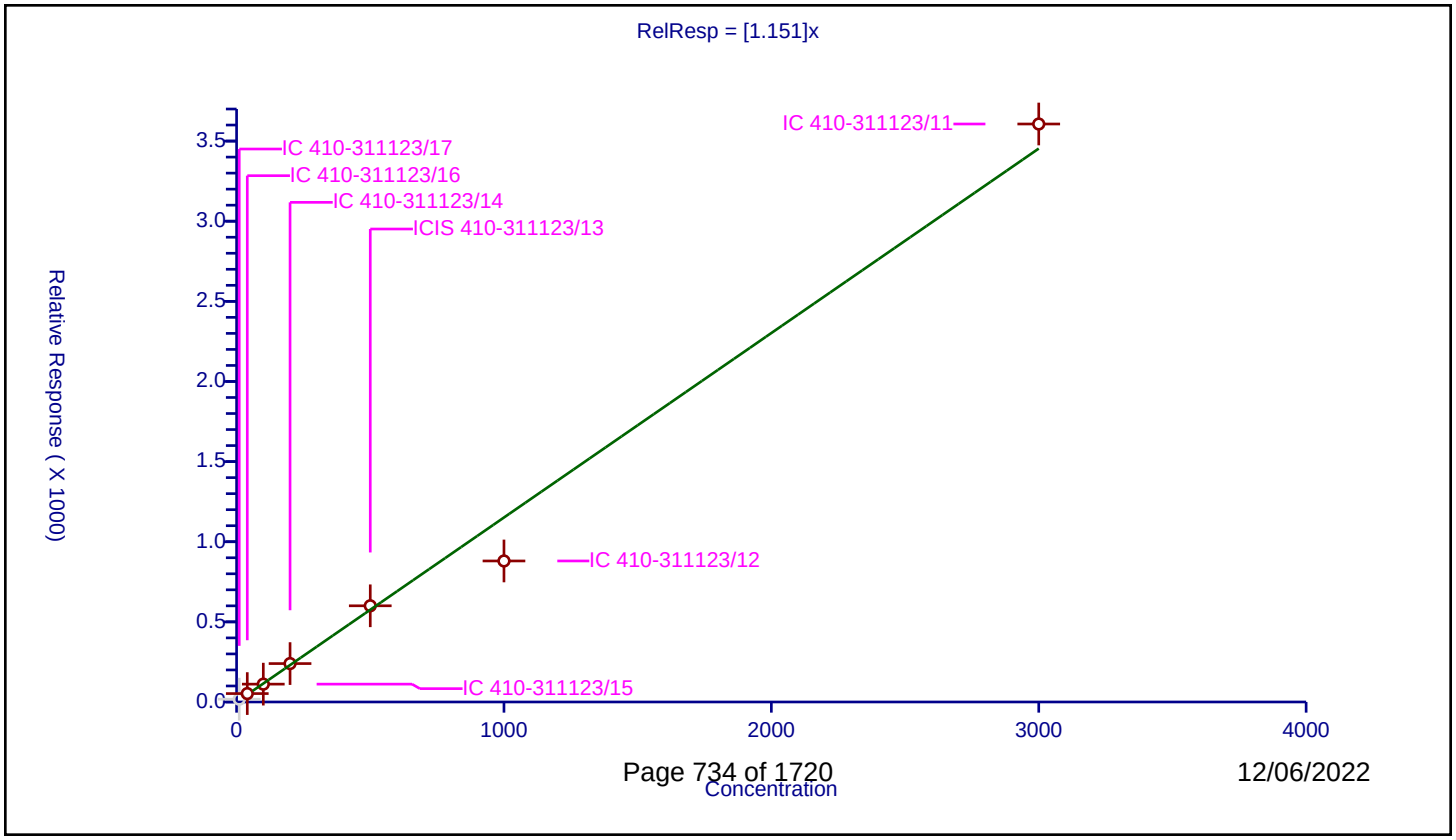
Curve Coefficients

Intercept:	0
Slope:	1.151

Error Coefficients

Standard Error:	4990000
Relative Standard Error:	12.8
Correlation Coefficient:	0.992
Coefficient of Determination (Adjusted):	0.975

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	10.000173	17.50565	250.0	601720.0	1.750535	N
2	IC 410-311123/16	40.000693	52.454927	250.0	723545.0	1.31135	Y
3	IC 410-311123/15	100.001733	111.369685	250.0	751450.0	1.113678	Y
4	IC 410-311123/14	200.003466	239.750806	250.0	750620.0	1.198733	Y
5	ICIS 410-311123/13	500.008665	600.188355	250.0	746464.0	1.200356	Y
6	IC 410-311123/12	1000.01733	879.972909	250.0	758183.0	0.879958	Y
7	IC 410-311123/11	3000.051991	3606.43843	250.0	739202.0	1.202125	Y



Calibration / 1,1-Dichloroethene

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

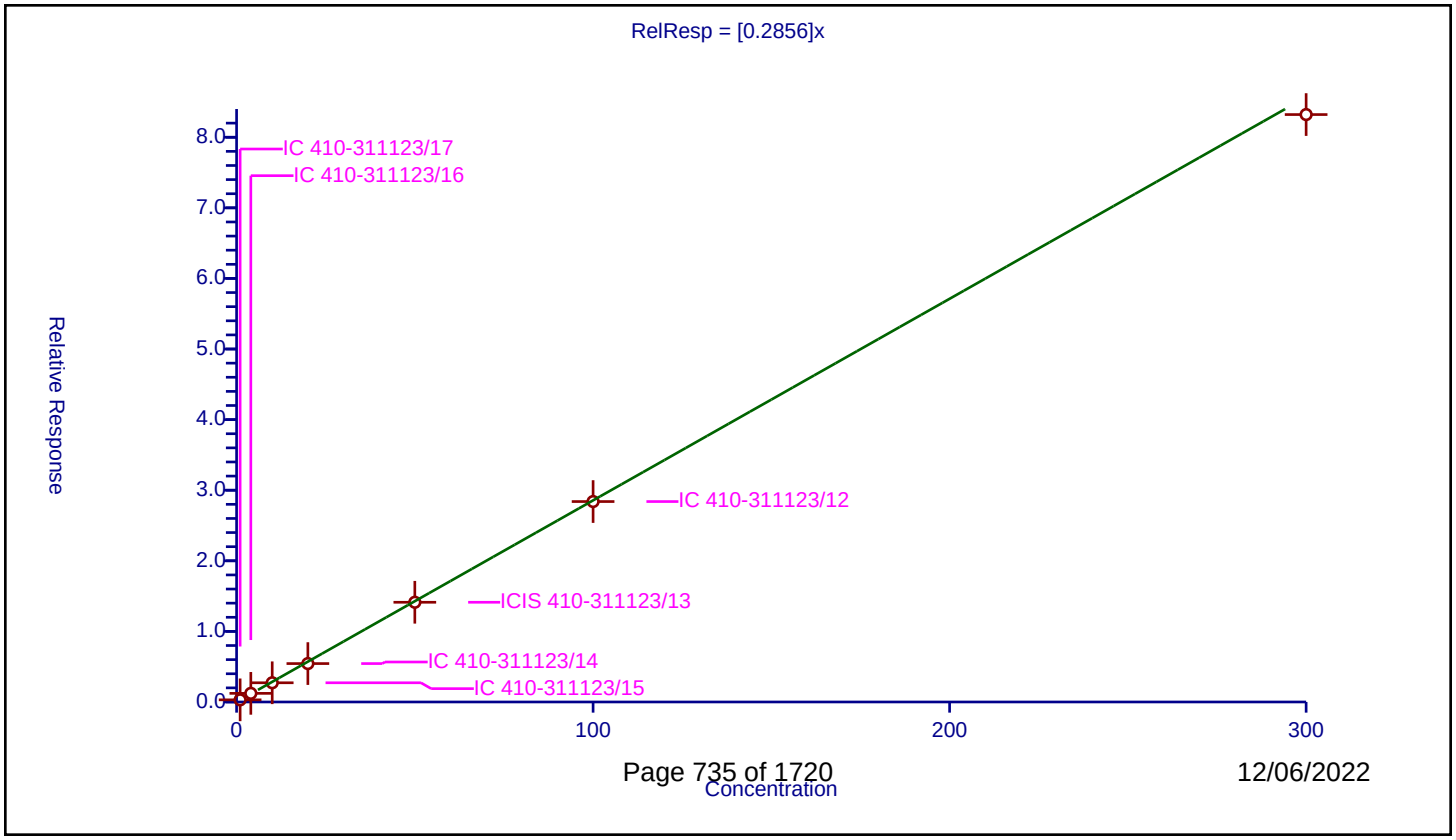
Curve Coefficients

Intercept:	0
Slope:	0.2856

Error Coefficients

Standard Error:	1060000
Relative Standard Error:	5.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.305288	50.0	1396224.0	0.305288	Y
2	IC 410-311123/16	4.0	1.223213	50.0	1351563.0	0.305803	Y
3	IC 410-311123/15	10.0	2.721158	50.0	1411017.0	0.272116	Y
4	IC 410-311123/14	20.0	5.440579	50.0	1391350.0	0.272029	Y
5	ICIS 410-311123/13	50.0	14.125196	50.0	1392317.0	0.282504	Y
6	IC 410-311123/12	100.0	28.395954	50.0	1410907.0	0.28396	Y
7	IC 410-311123/11	300.0	83.216059	50.0	1460539.0	0.277387	Y



Calibration / Acetone

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

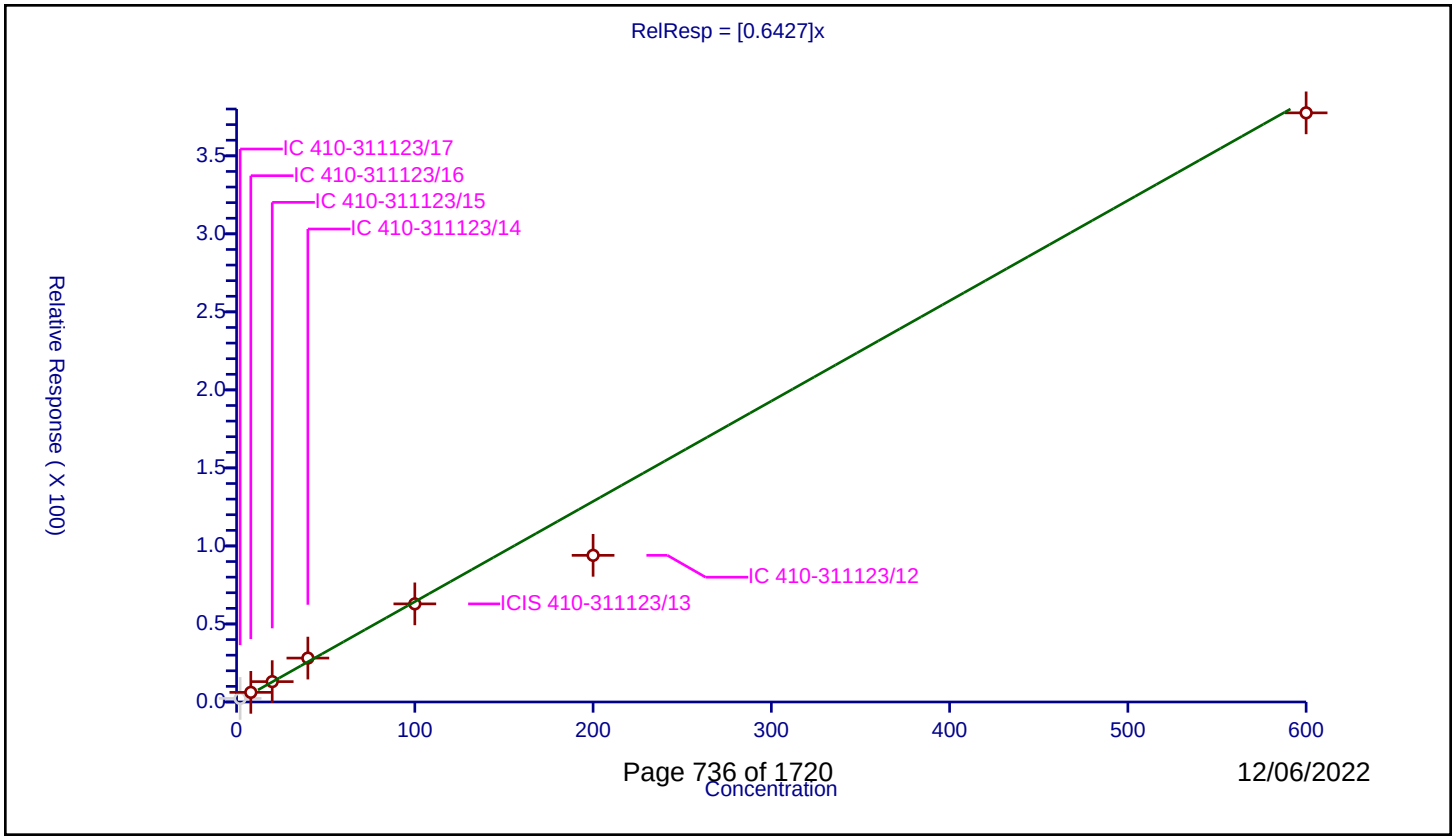
Curve Coefficients

Intercept:	0
Slope:	0.6427

Error Coefficients

Standard Error:	524000
Relative Standard Error:	15.7
Correlation Coefficient:	0.992
Coefficient of Determination (Adjusted):	0.959

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	2.0	2.27556	250.0	601720.0	1.13778	N
2	IC 410-311123/16	8.0	6.185172	250.0	723545.0	0.773146	Y
3	IC 410-311123/15	20.0	13.042451	250.0	751450.0	0.652123	Y
4	IC 410-311123/14	40.0	28.134409	250.0	750620.0	0.70336	Y
5	ICIS 410-311123/13	100.0	62.870748	250.0	746464.0	0.628707	Y
6	IC 410-311123/12	200.0	93.975333	250.0	758183.0	0.469877	Y
7	IC 410-311123/11	600.0	377.535843	250.0	739202.0	0.629226	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

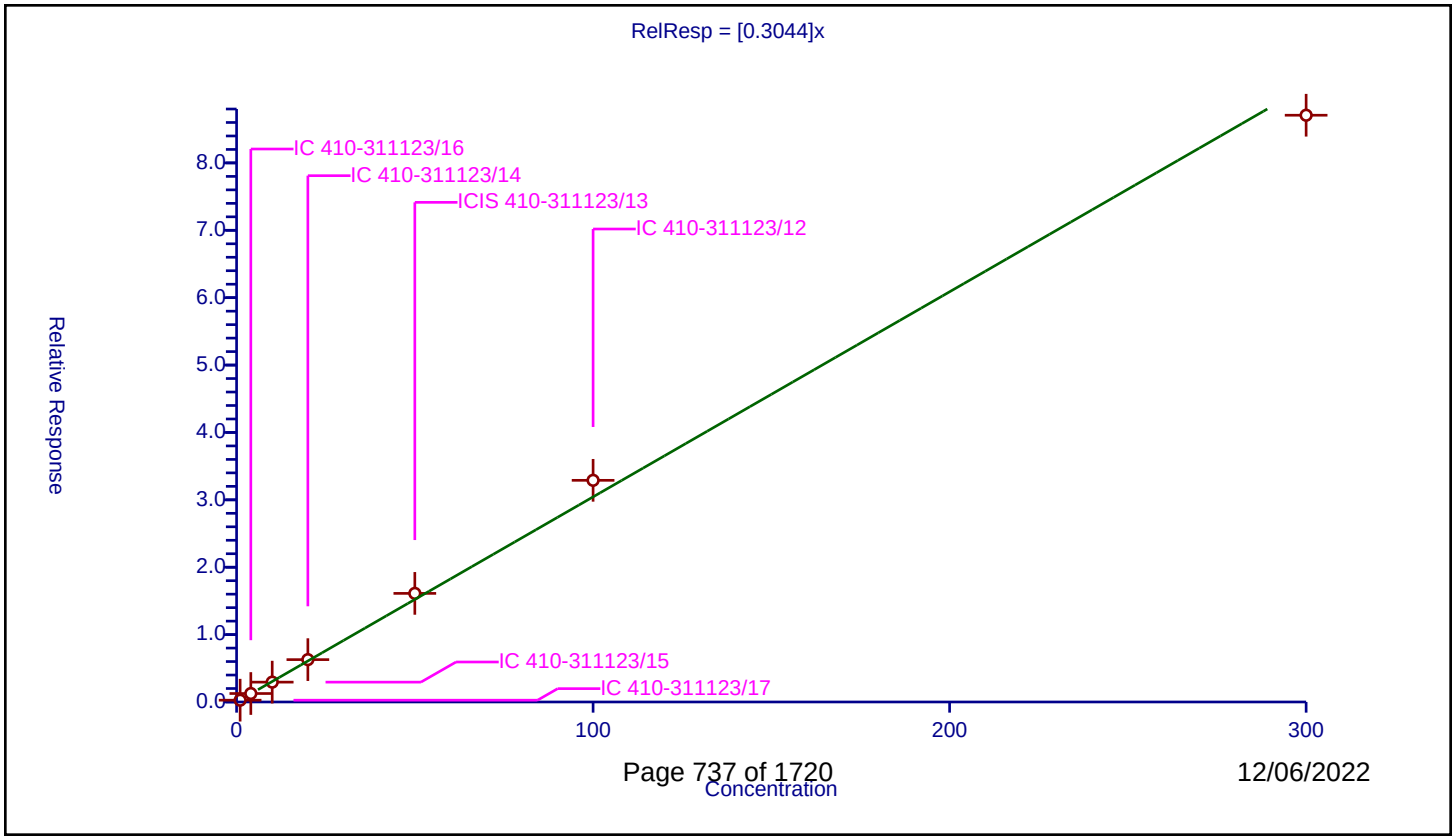
Curve Coefficients

Intercept:	0
Slope:	0.3044

Error Coefficients

Standard Error:	1120000
Relative Standard Error:	7.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.266254	50.0	1396224.0	0.266254	Y
2	IC 410-311123/16	4.0	1.255509	50.0	1351563.0	0.313877	Y
3	IC 410-311123/15	10.0	2.94557	50.0	1411017.0	0.294557	Y
4	IC 410-311123/14	20.0	6.287491	50.0	1391350.0	0.314375	Y
5	ICIS 410-311123/13	50.0	16.117558	50.0	1392317.0	0.322351	Y
6	IC 410-311123/12	100.0	32.897951	50.0	1410907.0	0.32898	Y
7	IC 410-311123/11	300.0	87.079633	50.0	1460539.0	0.290265	Y



Calibration / Iodomethane

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

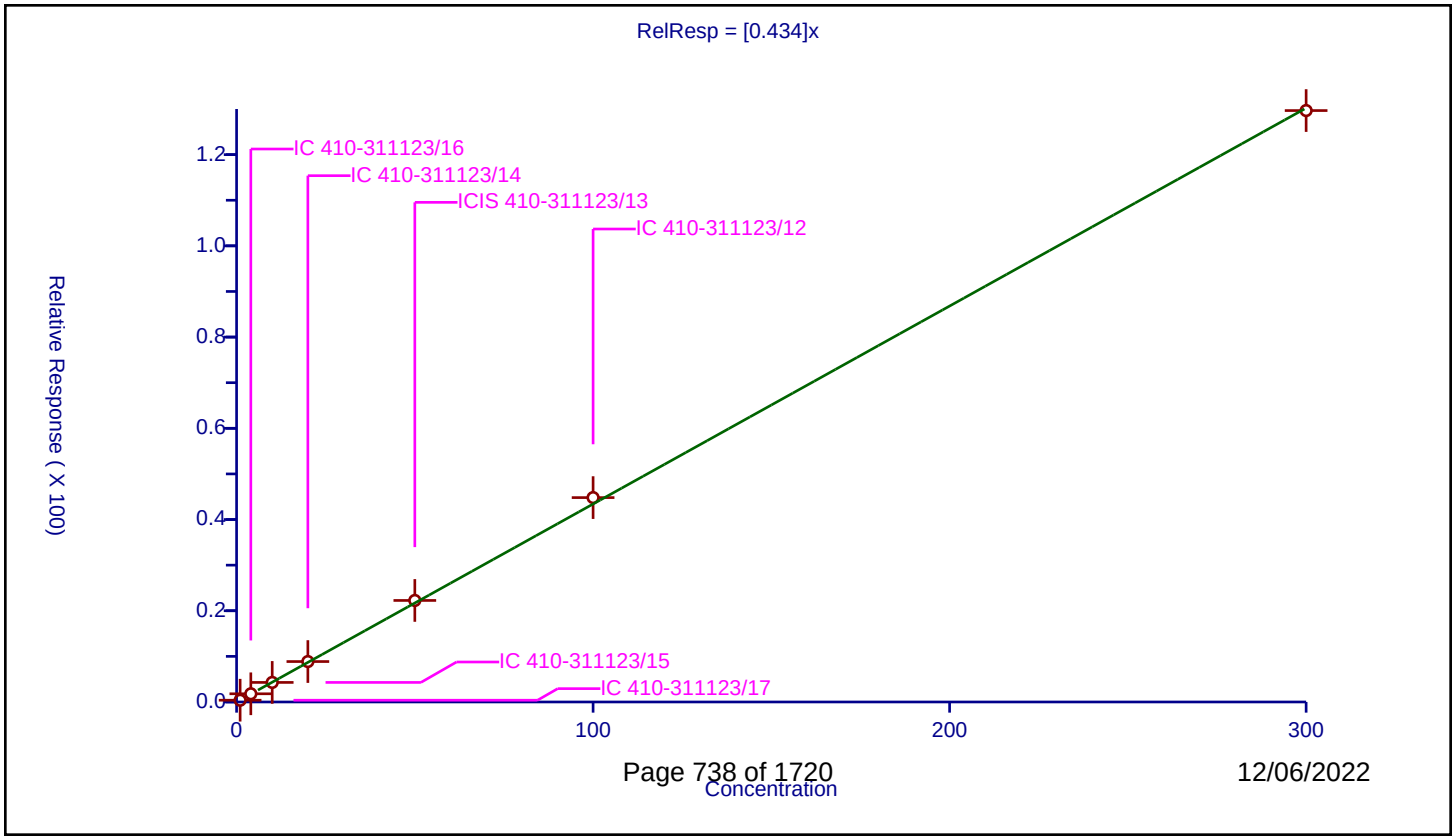
Curve Coefficients

Intercept:	0
Slope:	0.434

Error Coefficients

Standard Error:	1650000
Relative Standard Error:	4.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.391019	50.0	1396224.0	0.391019	Y
2	IC 410-311123/16	4.0	1.797585	50.0	1351563.0	0.449396	Y
3	IC 410-311123/15	10.0	4.290912	50.0	1411017.0	0.429091	Y
4	IC 410-311123/14	20.0	8.863945	50.0	1391350.0	0.443197	Y
5	ICIS 410-311123/13	50.0	22.259299	50.0	1392317.0	0.445186	Y
6	IC 410-311123/12	100.0	44.808446	50.0	1410907.0	0.448084	Y
7	IC 410-311123/11	300.0	129.661721	50.0	1460539.0	0.432206	Y



Calibration / Isopropyl alcohol

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

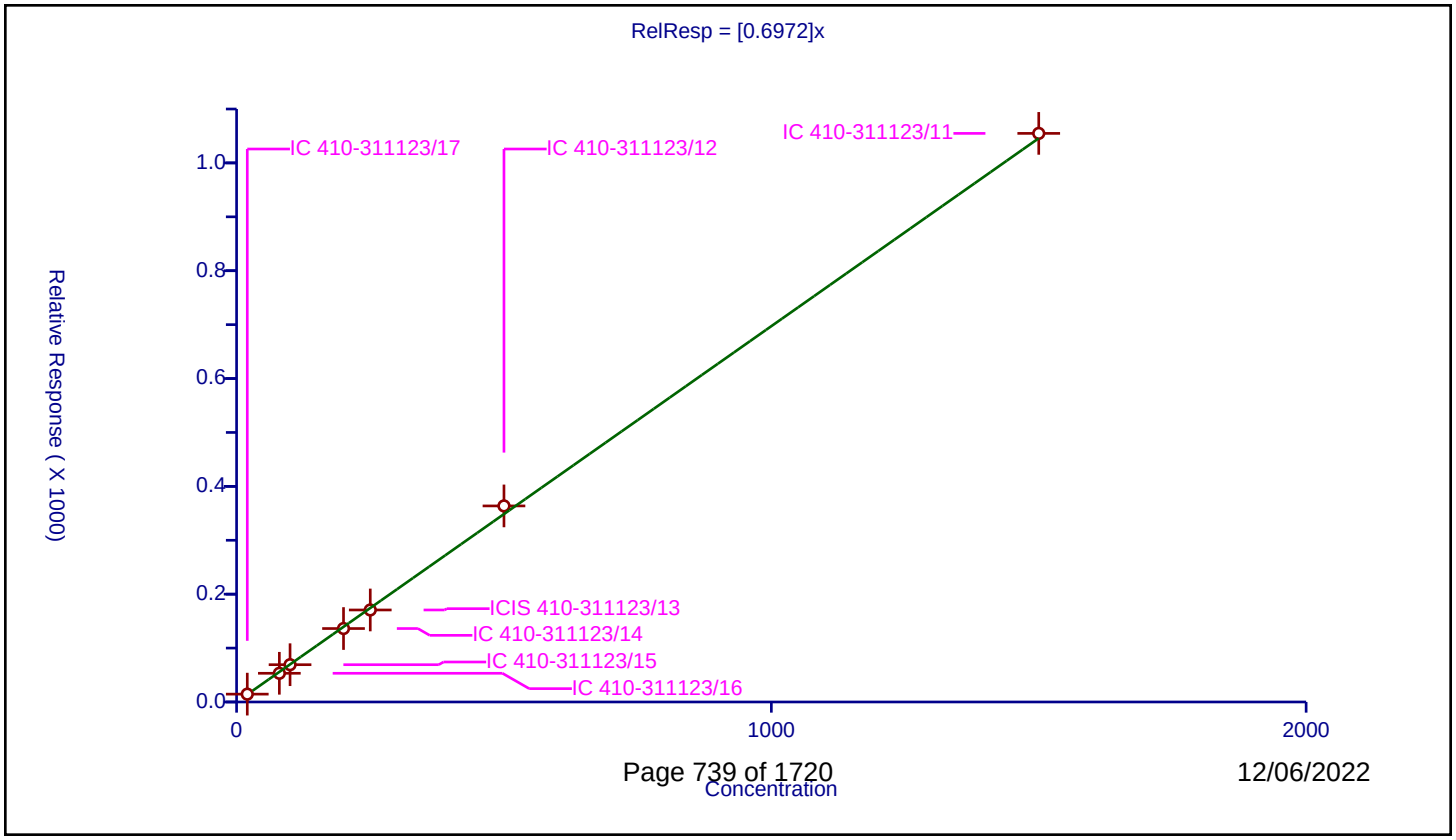
Curve Coefficients

Intercept:	0
Slope:	0.6972

Error Coefficients

Standard Error:	1380000
Relative Standard Error:	3.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	20.0	14.566991	250.0	601720.0	0.72835	Y
2	IC 410-311123/16	80.0	53.239259	250.0	723545.0	0.665491	Y
3	IC 410-311123/15	100.0	69.16395	250.0	751450.0	0.691639	Y
4	IC 410-311123/14	200.0	136.265021	250.0	750620.0	0.681325	Y
5	ICIS 410-311123/13	250.0	170.702807	250.0	746464.0	0.682811	Y
6	IC 410-311123/12	500.0	363.693858	250.0	758183.0	0.727388	Y
7	IC 410-311123/11	1500.0	1054.761757	250.0	739202.0	0.703175	Y



Calibration / Carbon disulfide

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

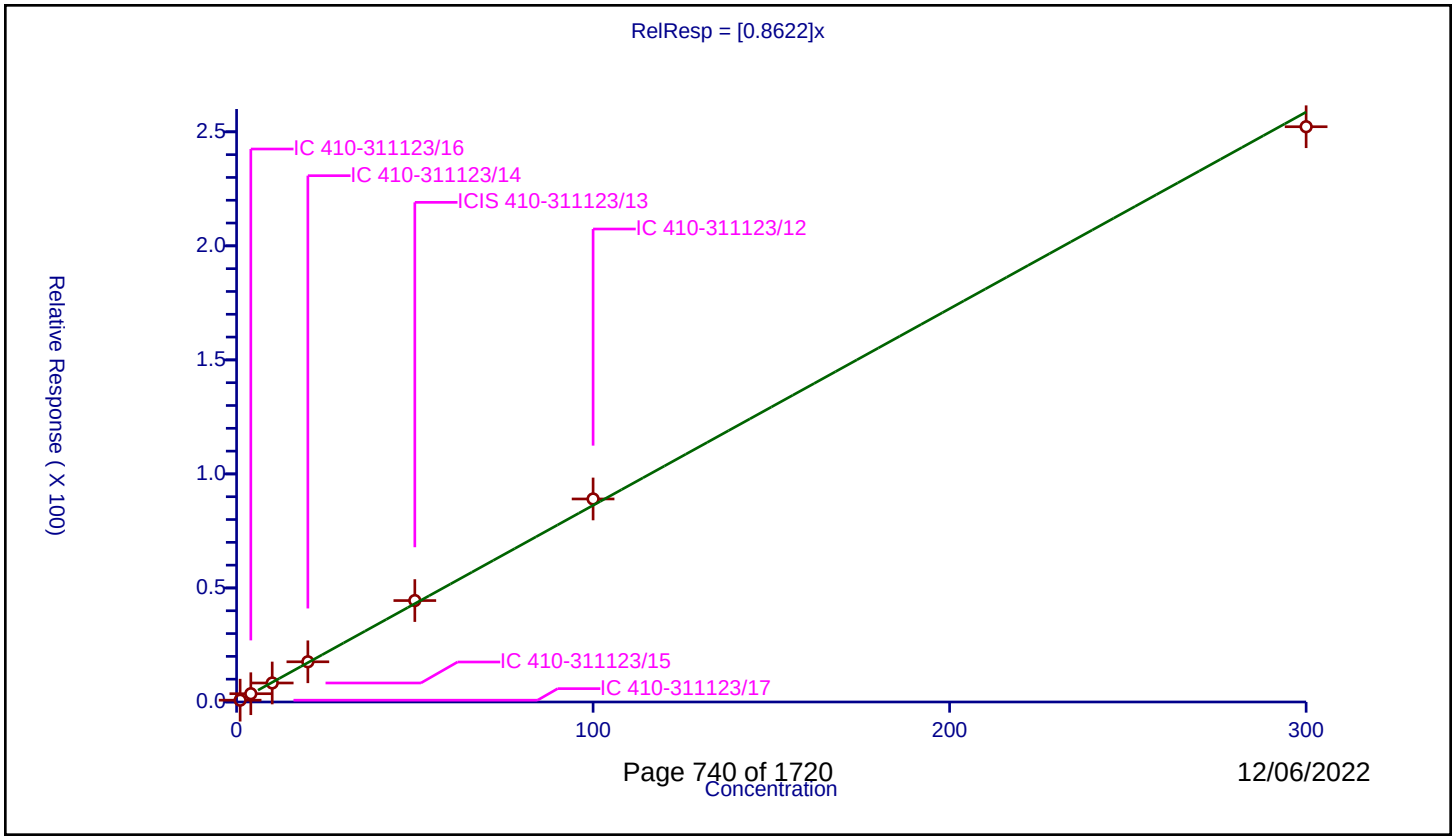
Curve Coefficients

Intercept:	0
Slope:	0.8622

Error Coefficients

Standard Error:	3230000
Relative Standard Error:	4.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.79382	50.0	1396224.0	0.79382	Y
2	IC 410-311123/16	4.0	3.625987	50.0	1351563.0	0.906497	Y
3	IC 410-311123/15	10.0	8.332217	50.0	1411017.0	0.833222	Y
4	IC 410-311123/14	20.0	17.629928	50.0	1391350.0	0.881496	Y
5	ICIS 410-311123/13	50.0	44.474786	50.0	1392317.0	0.889496	Y
6	IC 410-311123/12	100.0	89.017951	50.0	1410907.0	0.89018	Y
7	IC 410-311123/11	300.0	252.230889	50.0	1460539.0	0.84077	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

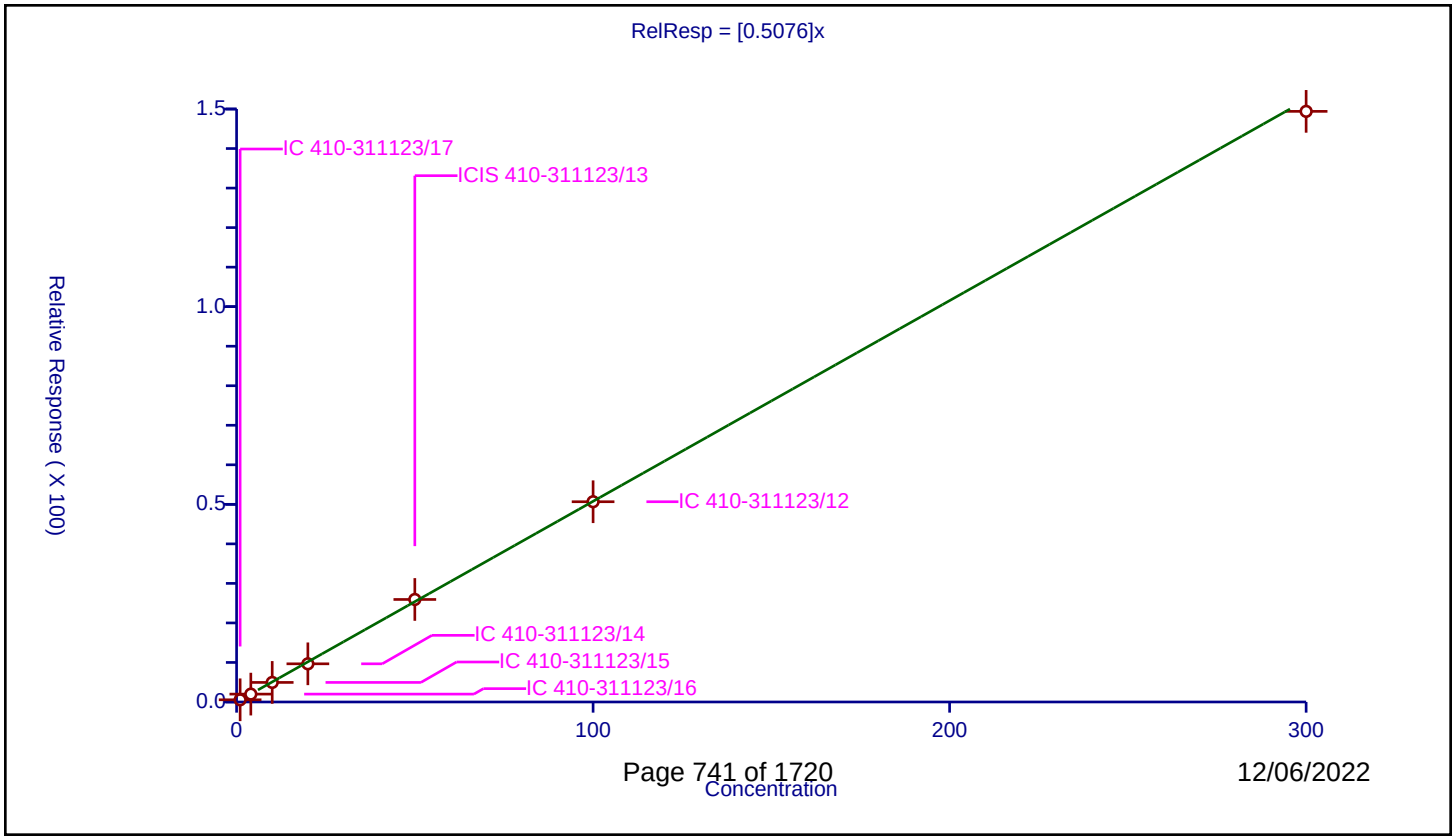
Curve Coefficients

Intercept:	0
Slope:	0.5076

Error Coefficients

Standard Error:	1900000
Relative Standard Error:	4.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.555248	50.0	1396224.0	0.555248	Y
2	IC 410-311123/16	4.0	1.990251	50.0	1351563.0	0.497563	Y
3	IC 410-311123/15	10.0	4.946857	50.0	1411017.0	0.494686	Y
4	IC 410-311123/14	20.0	9.653789	50.0	1391350.0	0.482689	Y
5	ICIS 410-311123/13	50.0	25.936586	50.0	1392317.0	0.518732	Y
6	IC 410-311123/12	100.0	50.659221	50.0	1410907.0	0.506592	Y
7	IC 410-311123/11	300.0	149.403953	50.0	1460539.0	0.498013	Y



Calibration / Methyl acetate

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

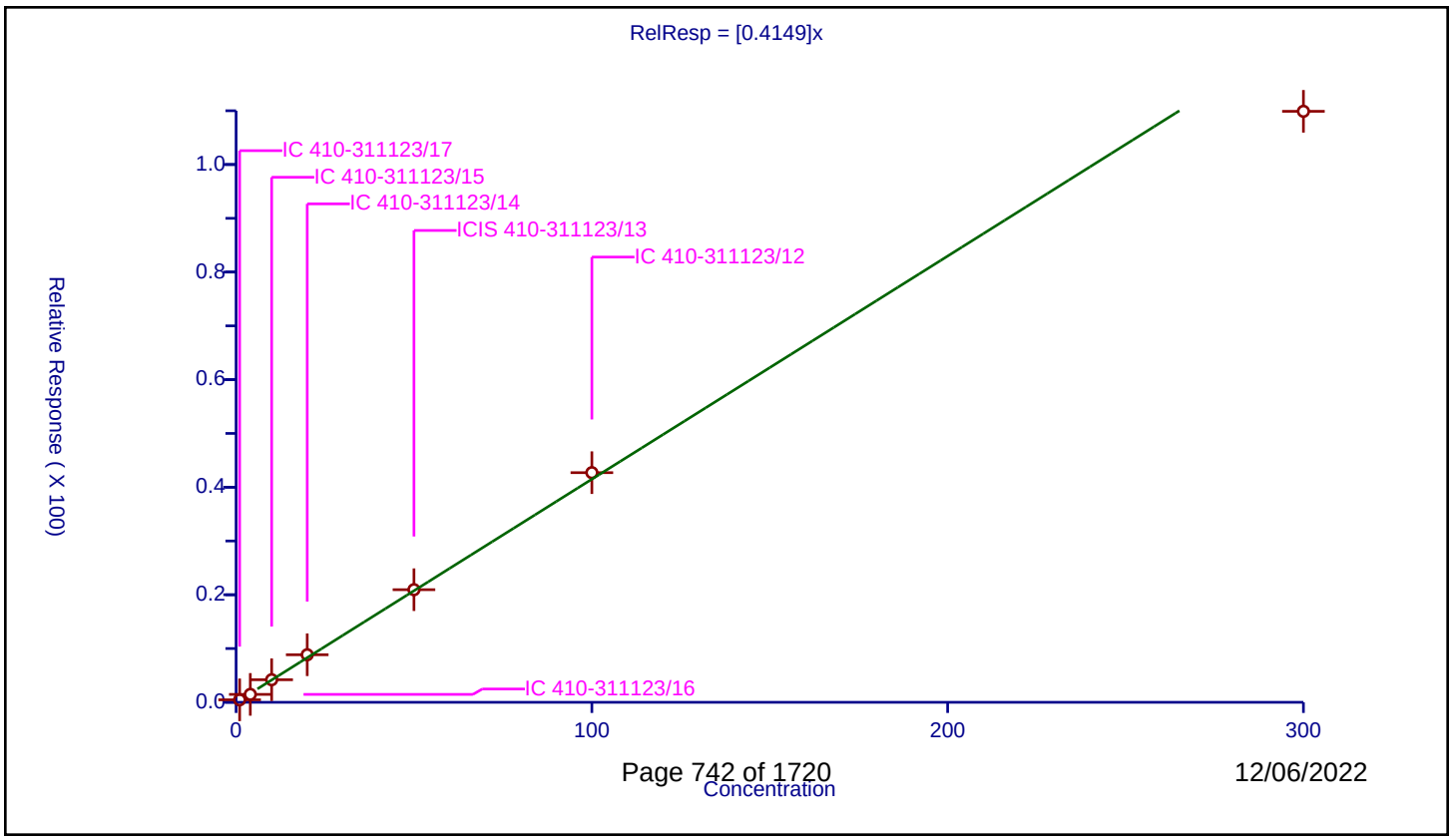
Curve Coefficients

Intercept:	0
Slope:	0.4149

Error Coefficients

Standard Error:	1420000
Relative Standard Error:	8.6
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.461817	50.0	1396224.0	0.461817	Y
2	IC 410-311123/16	4.0	1.473072	50.0	1351563.0	0.368268	Y
3	IC 410-311123/15	10.0	4.197469	50.0	1411017.0	0.419747	Y
4	IC 410-311123/14	20.0	8.841916	50.0	1391350.0	0.442096	Y
5	ICIS 410-311123/13	50.0	20.943147	50.0	1392317.0	0.418863	Y
6	IC 410-311123/12	100.0	42.704799	50.0	1410907.0	0.427048	Y
7	IC 410-311123/11	300.0	109.896312	50.0	1460539.0	0.366321	Y



Calibration / Methylene Chloride

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

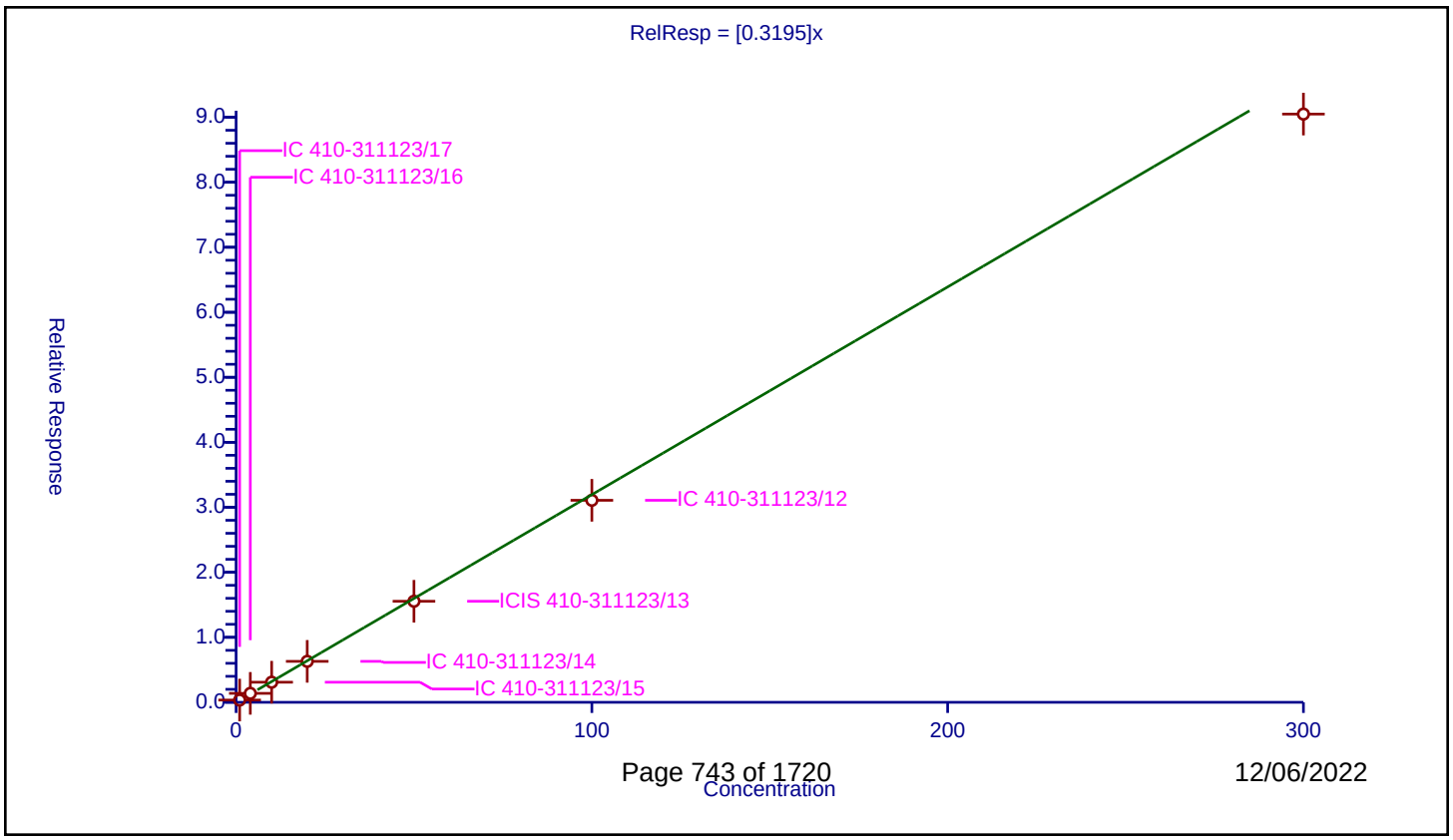
Curve Coefficients

Intercept:	0
Slope:	0.3195

Error Coefficients

Standard Error:	1150000
Relative Standard Error:	5.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.344071	50.0	1396224.0	0.344071	Y
2	IC 410-311123/16	4.0	1.378922	50.0	1351563.0	0.344731	Y
3	IC 410-311123/15	10.0	3.091316	50.0	1411017.0	0.309132	Y
4	IC 410-311123/14	20.0	6.301649	50.0	1391350.0	0.315082	Y
5	ICIS 410-311123/13	50.0	15.545382	50.0	1392317.0	0.310908	Y
6	IC 410-311123/12	100.0	31.077314	50.0	1410907.0	0.310773	Y
7	IC 410-311123/11	300.0	90.489573	50.0	1460539.0	0.301632	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

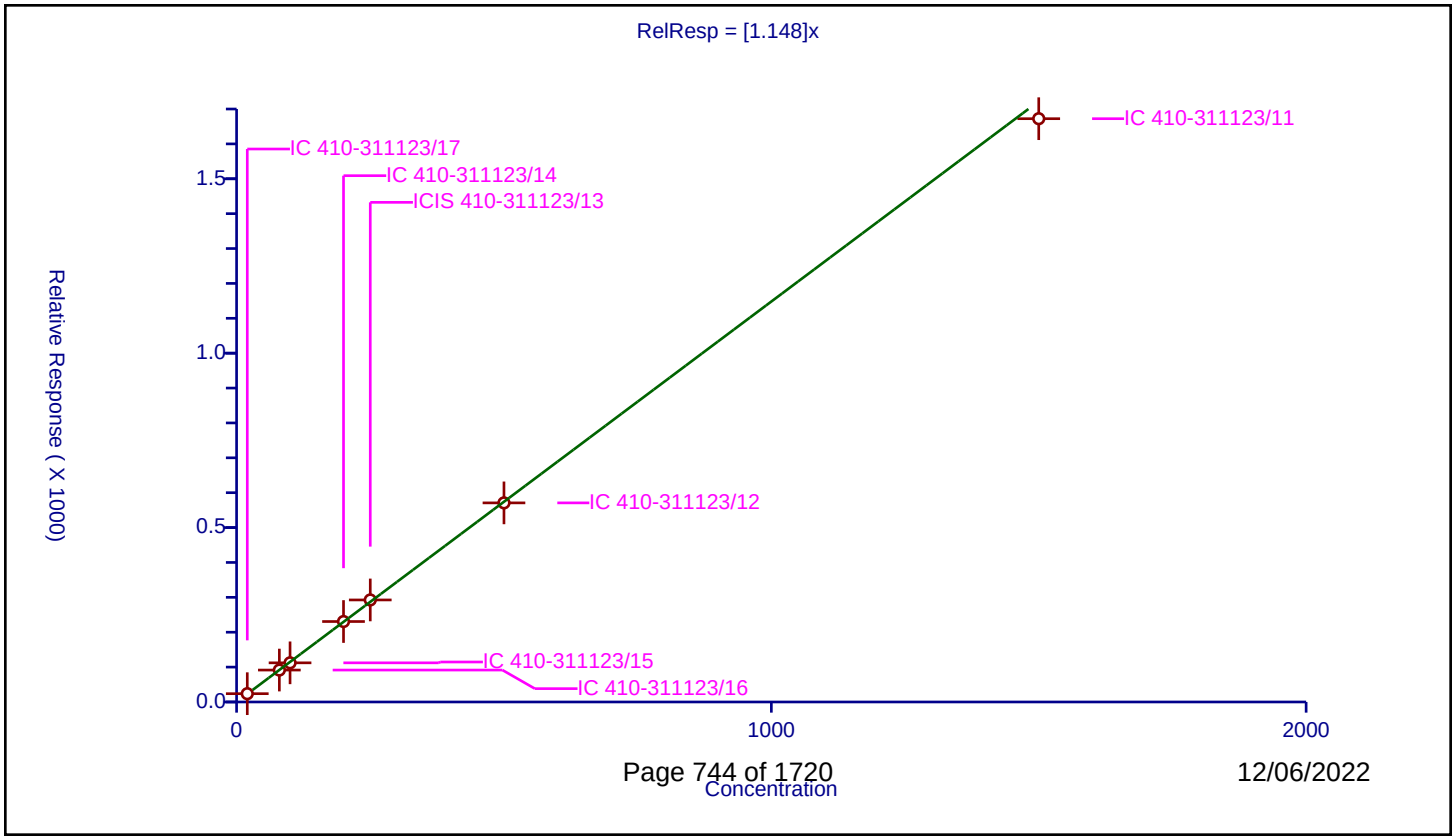
Curve Coefficients

Intercept:	0
Slope:	1.148

Error Coefficients

Standard Error:	2190000
Relative Standard Error:	2.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	20.0	23.785565	250.0	601720.0	1.189278	Y
2	IC 410-311123/16	80.0	91.571015	250.0	723545.0	1.144638	Y
3	IC 410-311123/15	100.0	112.267949	250.0	751450.0	1.122679	Y
4	IC 410-311123/14	200.0	230.652994	250.0	750620.0	1.153265	Y
5	ICIS 410-311123/13	250.0	292.550277	250.0	746464.0	1.170201	Y
6	IC 410-311123/12	500.0	570.835471	250.0	758183.0	1.141671	Y
7	IC 410-311123/11	1500.0	1672.273952	250.0	739202.0	1.114849	Y



Calibration / Acrylonitrile

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

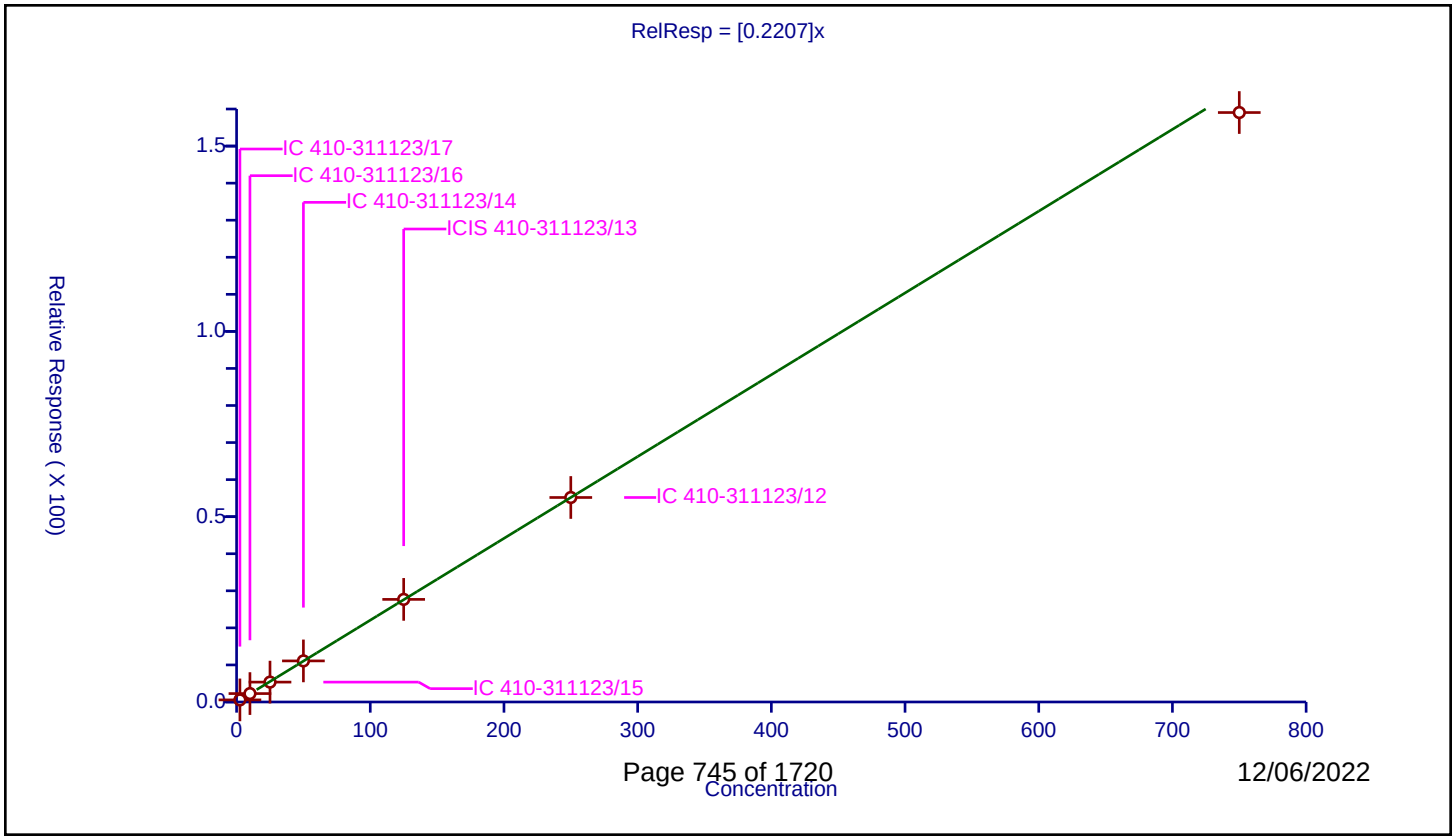
Curve Coefficients

Intercept:	0
Slope:	0.2207

Error Coefficients

Standard Error:	2030000
Relative Standard Error:	2.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	2.5	0.568319	50.0	1396224.0	0.227327	Y
2	IC 410-311123/16	10.0	2.271999	50.0	1351563.0	0.2272	Y
3	IC 410-311123/15	25.0	5.36457	50.0	1411017.0	0.214583	Y
4	IC 410-311123/14	50.0	11.087361	50.0	1391350.0	0.221747	Y
5	ICIS 410-311123/13	125.0	27.683638	50.0	1392317.0	0.221469	Y
6	IC 410-311123/12	250.0	55.178052	50.0	1410907.0	0.220712	Y
7	IC 410-311123/11	750.0	159.050905	50.0	1460539.0	0.212068	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

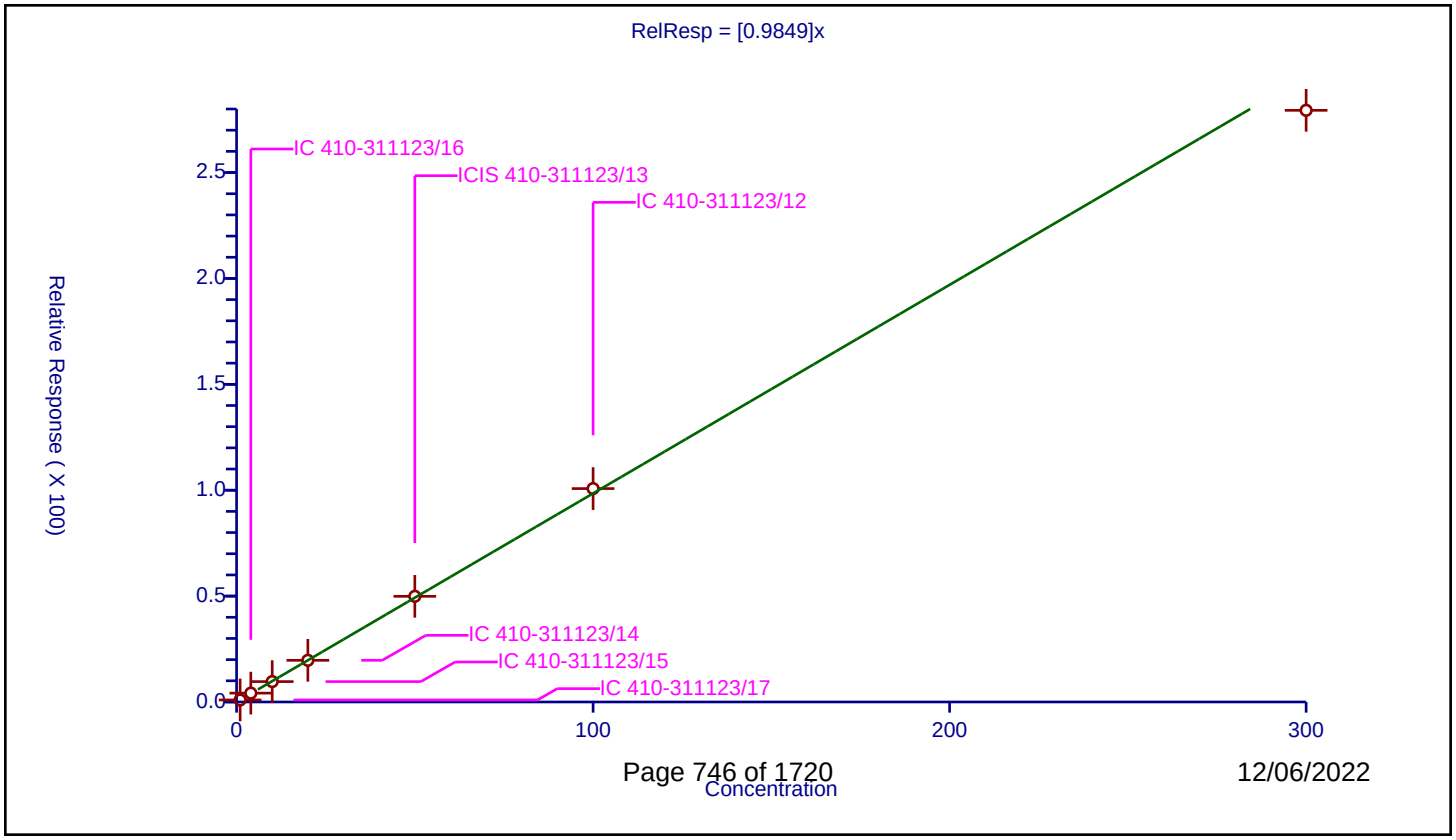
Curve Coefficients

Intercept:	0
Slope:	0.9849

Error Coefficients

Standard Error:	3580000
Relative Standard Error:	3.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.965031	50.0	1396224.0	0.965031	Y
2	IC 410-311123/16	4.0	4.182491	50.0	1351563.0	1.045623	Y
3	IC 410-311123/15	10.0	9.628233	50.0	1411017.0	0.962823	Y
4	IC 410-311123/14	20.0	19.680203	50.0	1391350.0	0.98401	Y
5	ICIS 410-311123/13	50.0	49.891081	50.0	1392317.0	0.997822	Y
6	IC 410-311123/12	100.0	100.766528	50.0	1410907.0	1.007665	Y
7	IC 410-311123/11	300.0	279.379496	50.0	1460539.0	0.931265	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

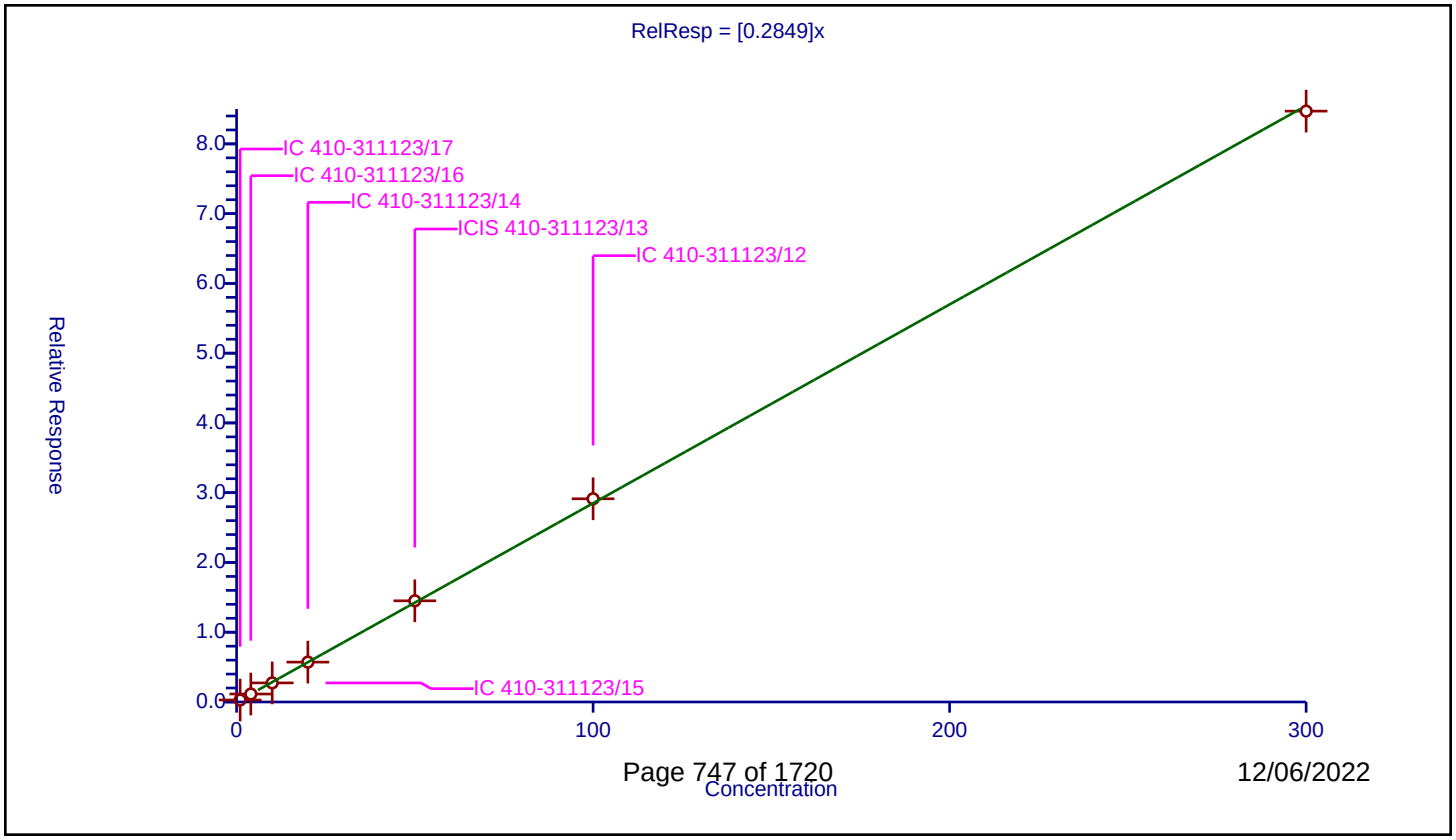
Curve Coefficients

Intercept:	0
Slope:	0.2849

Error Coefficients

Standard Error:	1080000
Relative Standard Error:	2.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.285663	50.0	1396224.0	0.285663	Y
2	IC 410-311123/16	4.0	1.142529	50.0	1351563.0	0.285632	Y
3	IC 410-311123/15	10.0	2.735793	50.0	1411017.0	0.273579	Y
4	IC 410-311123/14	20.0	5.717612	50.0	1391350.0	0.285881	Y
5	ICIS 410-311123/13	50.0	14.504025	50.0	1392317.0	0.29008	Y
6	IC 410-311123/12	100.0	29.128993	50.0	1410907.0	0.29129	Y
7	IC 410-311123/11	300.0	84.696266	50.0	1460539.0	0.282321	Y



Calibration / Hexane

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

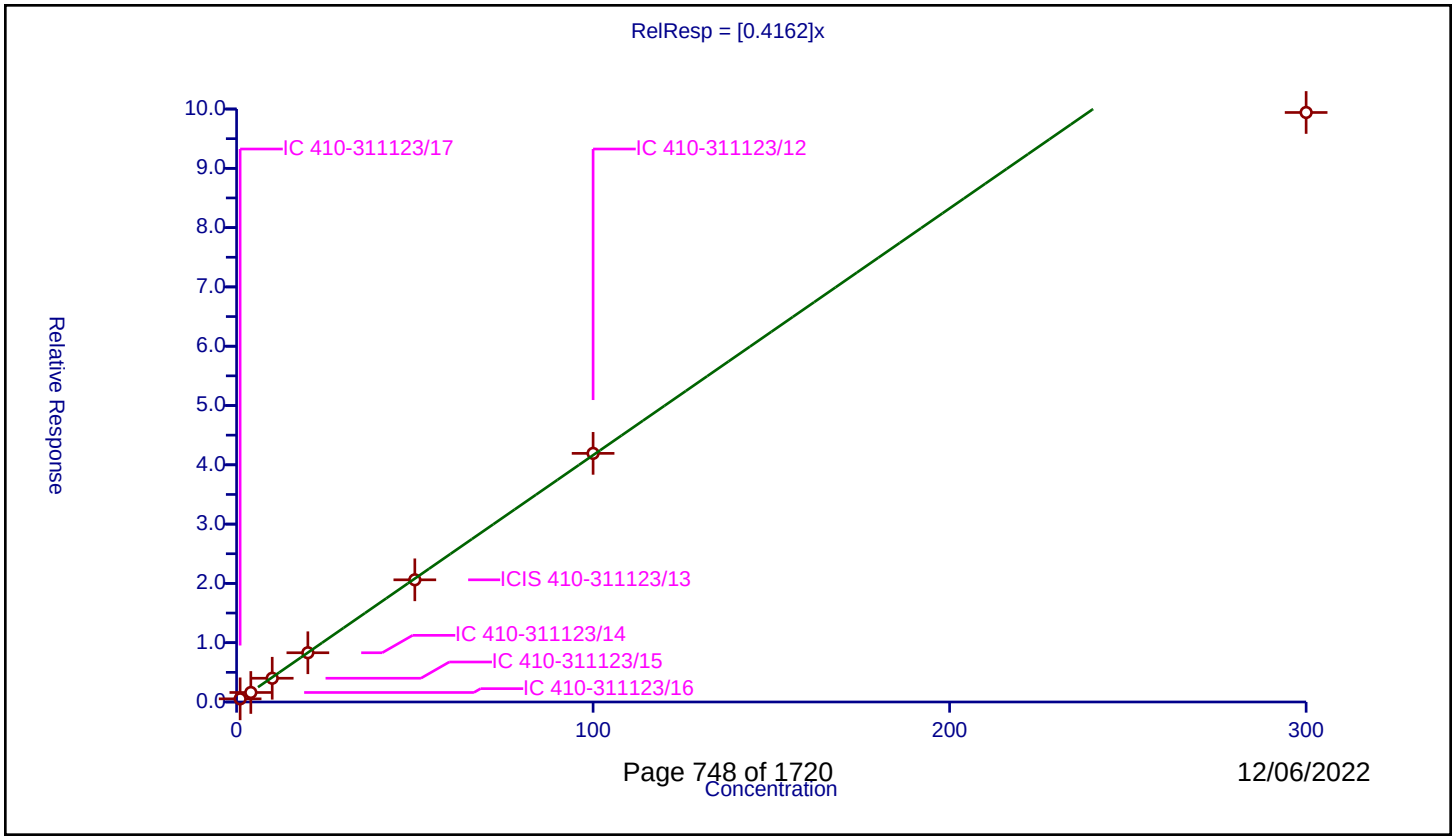
Curve Coefficients

Intercept:	0
Slope:	0.4162

Error Coefficients

Standard Error:	1310000
Relative Standard Error:	14.4
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.972

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.53394	50.0	1396224.0	0.53394	Y
2	IC 410-311123/16	4.0	1.604291	50.0	1351563.0	0.401073	Y
3	IC 410-311123/15	10.0	4.006401	50.0	1411017.0	0.40064	Y
4	IC 410-311123/14	20.0	8.302368	50.0	1391350.0	0.415118	Y
5	ICIS 410-311123/13	50.0	20.605688	50.0	1392317.0	0.412114	Y
6	IC 410-311123/12	100.0	41.928667	50.0	1410907.0	0.419287	Y
7	IC 410-311123/11	300.0	99.417441	50.0	1460539.0	0.331391	Y



Calibration / 1,1-Dichloroethane

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

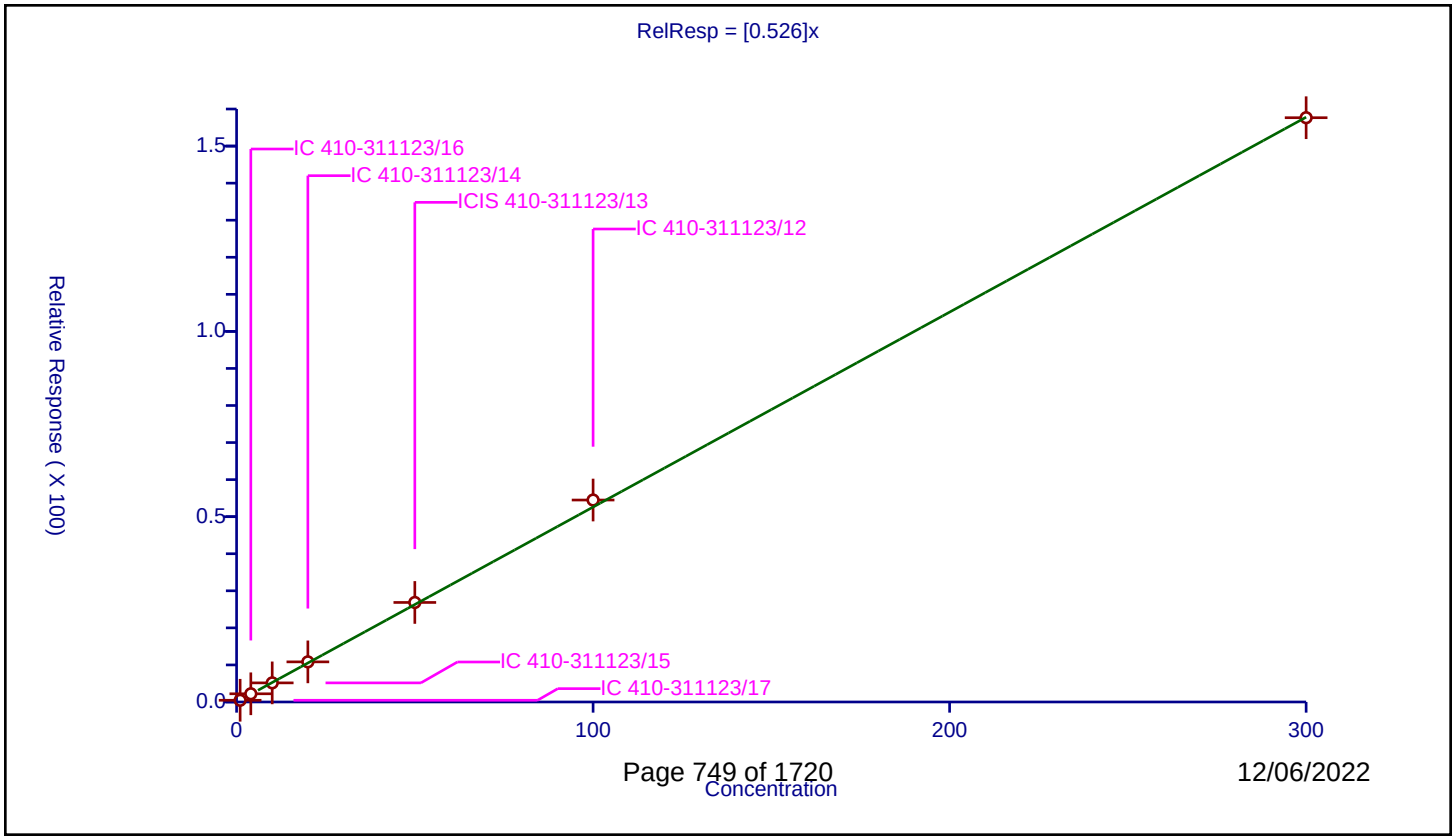
Curve Coefficients

Intercept:	0
Slope:	0.526

Error Coefficients

Standard Error:	2010000
Relative Standard Error:	5.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.46436	50.0	1396224.0	0.46436	Y
2	IC 410-311123/16	4.0	2.213437	50.0	1351563.0	0.553359	Y
3	IC 410-311123/15	10.0	5.151887	50.0	1411017.0	0.515189	Y
4	IC 410-311123/14	20.0	10.828045	50.0	1391350.0	0.541402	Y
5	ICIS 410-311123/13	50.0	26.855378	50.0	1392317.0	0.537108	Y
6	IC 410-311123/12	100.0	54.494308	50.0	1410907.0	0.544943	Y
7	IC 410-311123/11	300.0	157.654743	50.0	1460539.0	0.525516	Y



Calibration / Isopropyl ether

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

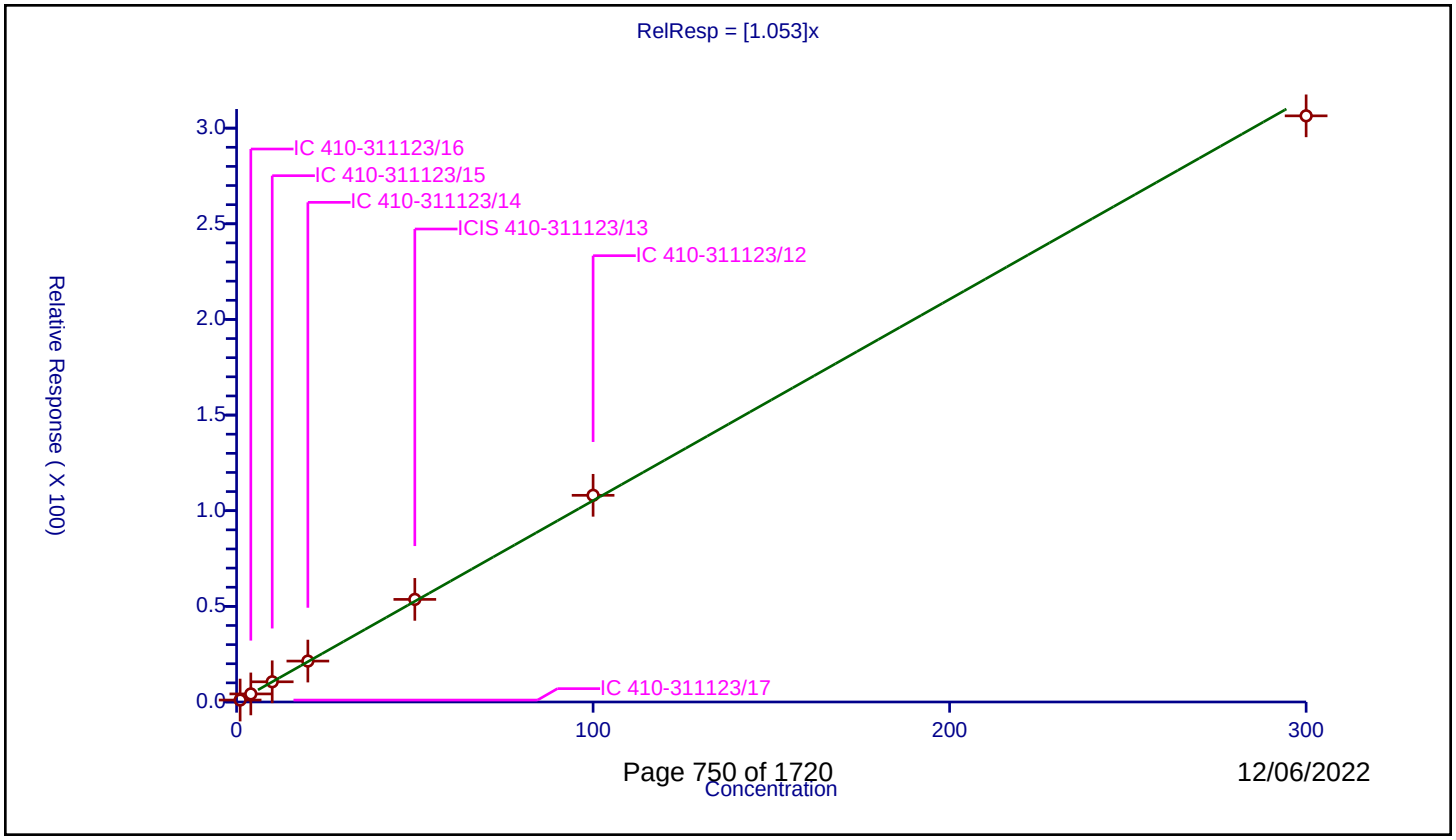
Curve Coefficients

Intercept:	0
Slope:	1.053

Error Coefficients

Standard Error:	3920000
Relative Standard Error:	2.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	1.014092	50.0	1396224.0	1.014092	Y
2	IC 410-311123/16	4.0	4.22041	50.0	1351563.0	1.055102	Y
3	IC 410-311123/15	10.0	10.559724	50.0	1411017.0	1.055972	Y
4	IC 410-311123/14	20.0	21.390304	50.0	1391350.0	1.069515	Y
5	ICIS 410-311123/13	50.0	53.632614	50.0	1392317.0	1.072652	Y
6	IC 410-311123/12	100.0	108.046313	50.0	1410907.0	1.080463	Y
7	IC 410-311123/11	300.0	306.424375	50.0	1460539.0	1.021415	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

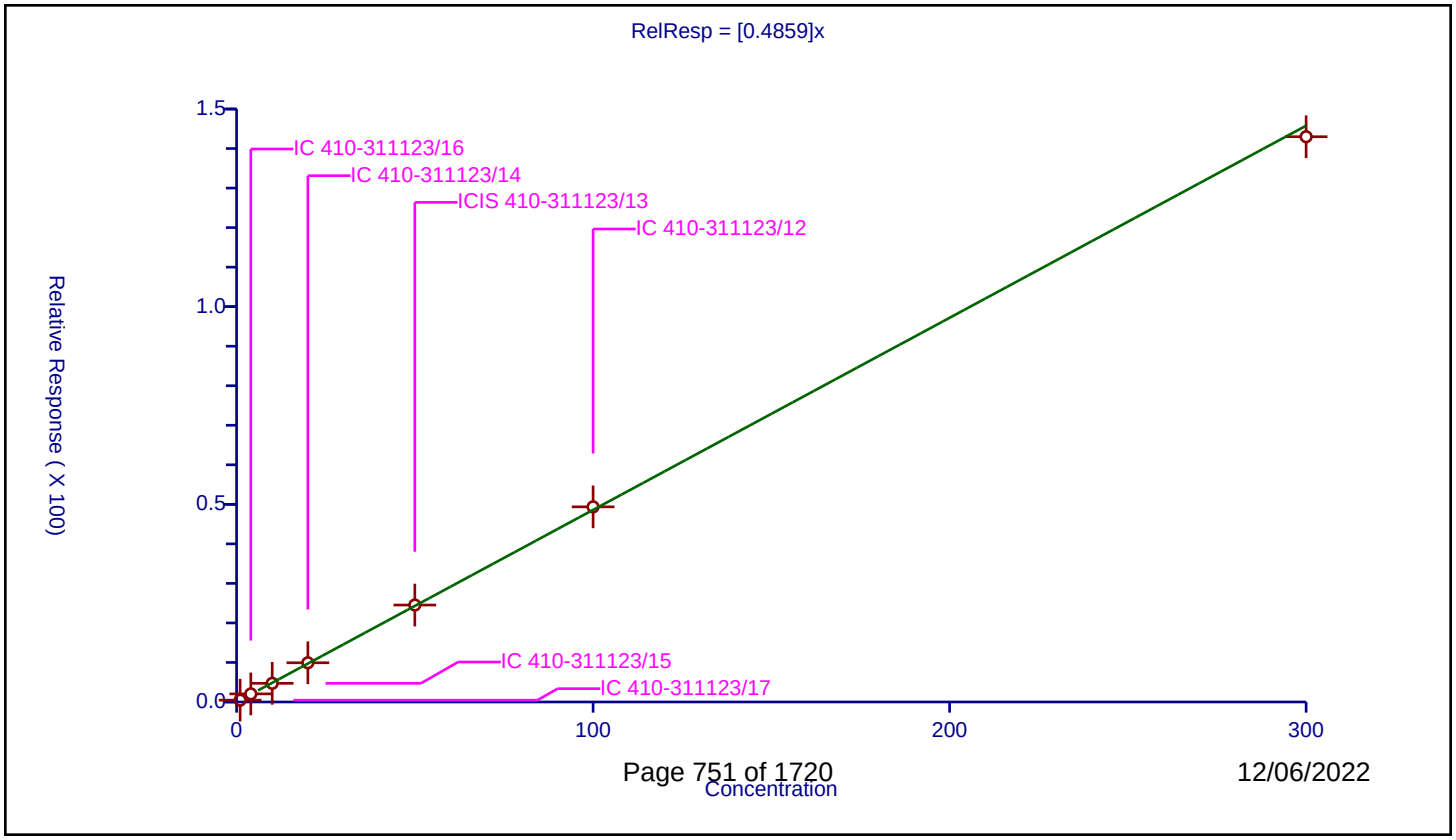
Curve Coefficients

Intercept:	0
Slope:	0.4859

Error Coefficients

Standard Error:	1820000
Relative Standard Error:	3.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.460886	50.0	1396224.0	0.460886	Y
2	IC 410-311123/16	4.0	2.048073	50.0	1351563.0	0.512018	Y
3	IC 410-311123/15	10.0	4.719256	50.0	1411017.0	0.471926	Y
4	IC 410-311123/14	20.0	9.918604	50.0	1391350.0	0.49593	Y
5	ICIS 410-311123/13	50.0	24.523905	50.0	1392317.0	0.490478	Y
6	IC 410-311123/12	100.0	49.359384	50.0	1410907.0	0.493594	Y
7	IC 410-311123/11	300.0	142.990978	50.0	1460539.0	0.476637	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

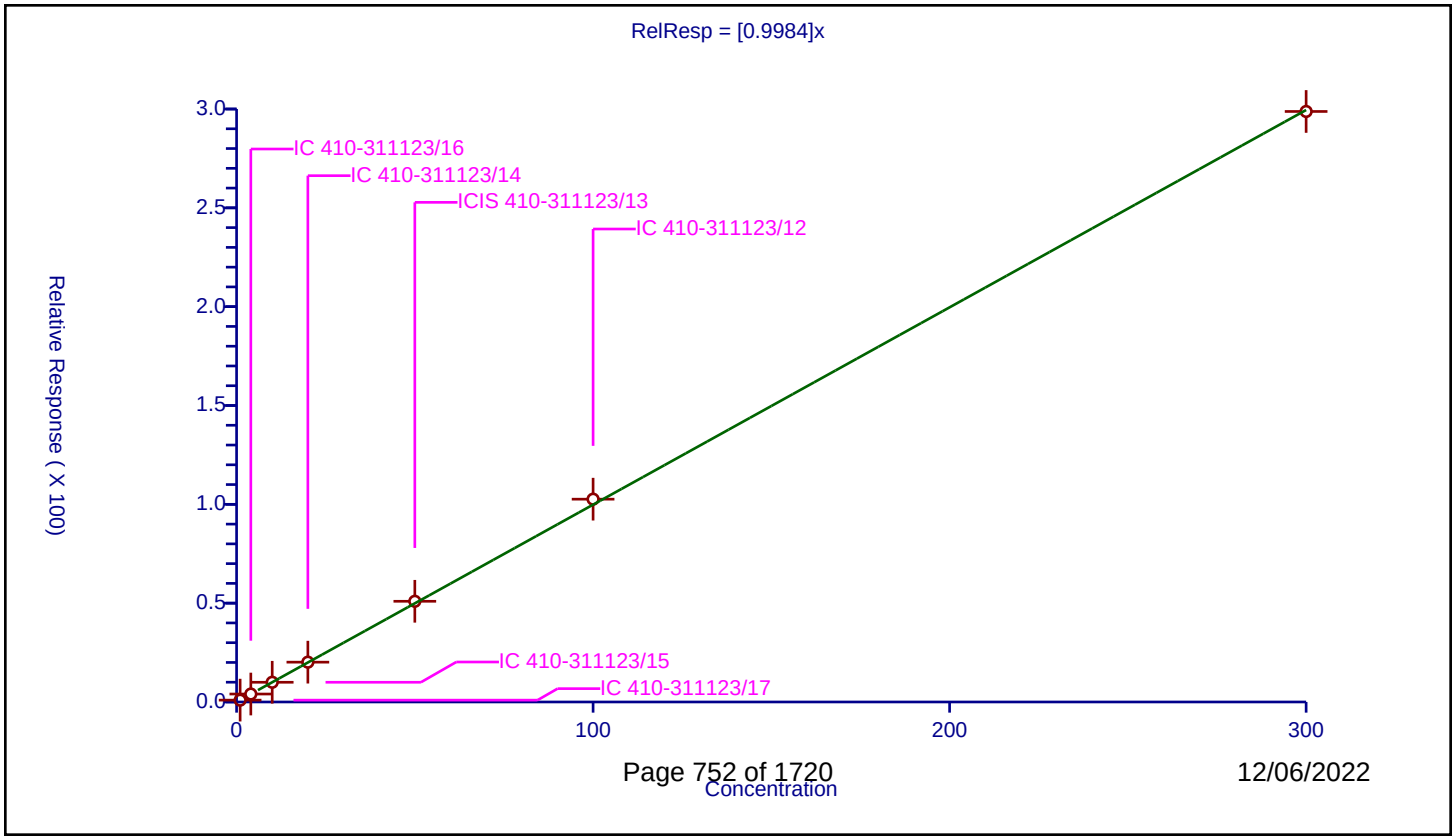
Curve Coefficients

Intercept:	0
Slope:	0.9984

Error Coefficients

Standard Error:	3810000
Relative Standard Error:	2.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.937027	50.0	1396224.0	0.937027	Y
2	IC 410-311123/16	4.0	4.022269	50.0	1351563.0	1.005567	Y
3	IC 410-311123/15	10.0	9.977874	50.0	1411017.0	0.997787	Y
4	IC 410-311123/14	20.0	20.143853	50.0	1391350.0	1.007193	Y
5	ICIS 410-311123/13	50.0	50.950933	50.0	1392317.0	1.019019	Y
6	IC 410-311123/12	100.0	102.601695	50.0	1410907.0	1.026017	Y
7	IC 410-311123/11	300.0	298.764771	50.0	1460539.0	0.995883	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

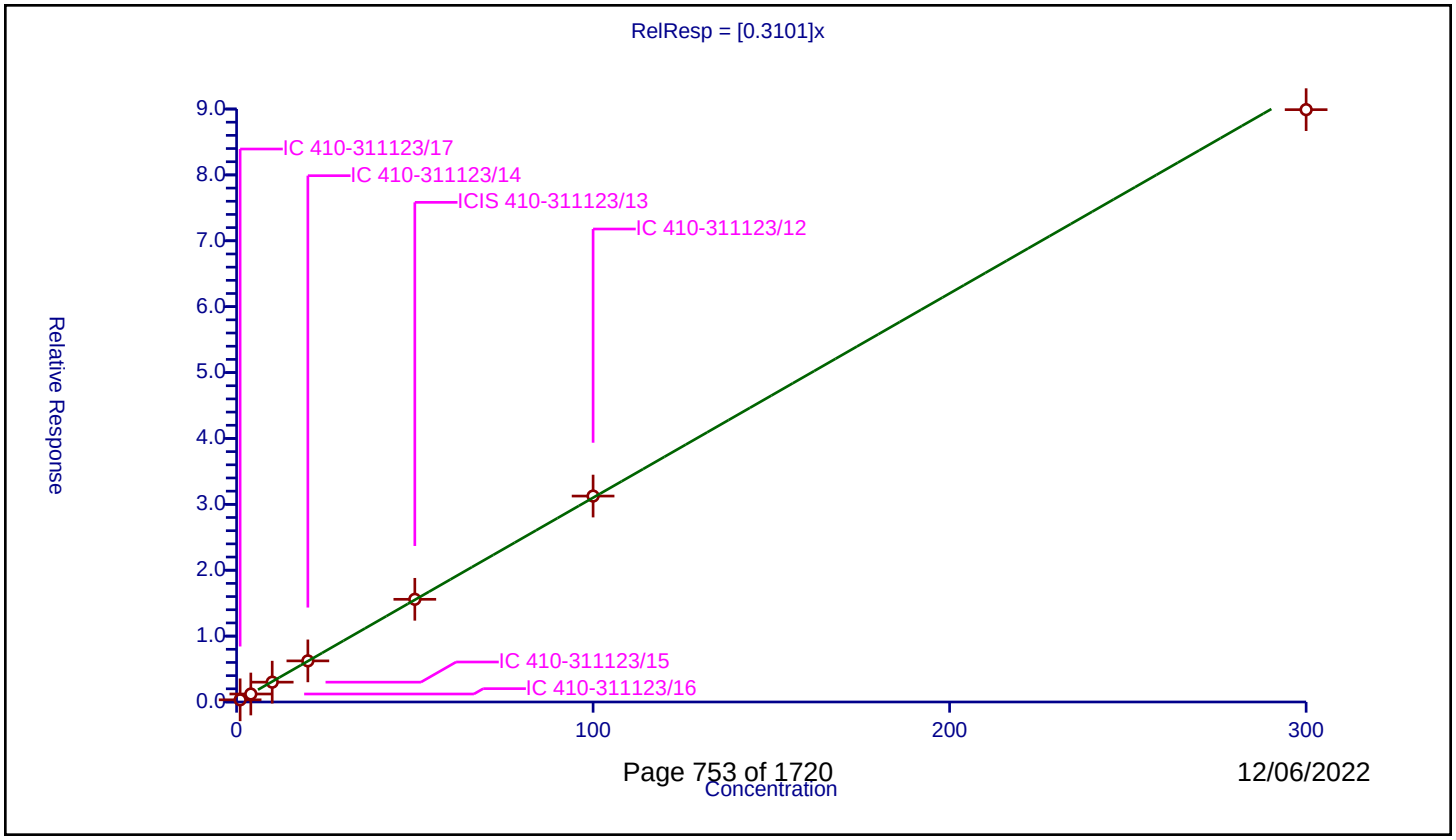
Curve Coefficients

Intercept:	0
Slope:	0.3101

Error Coefficients

Standard Error:	1150000
Relative Standard Error:	3.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.330892	50.0	1396224.0	0.330892	Y
2	IC 410-311123/16	4.0	1.211412	50.0	1351563.0	0.302853	Y
3	IC 410-311123/15	10.0	3.00776	50.0	1411017.0	0.300776	Y
4	IC 410-311123/14	20.0	6.240378	50.0	1391350.0	0.312019	Y
5	ICIS 410-311123/13	50.0	15.586142	50.0	1392317.0	0.311723	Y
6	IC 410-311123/12	100.0	31.257624	50.0	1410907.0	0.312576	Y
7	IC 410-311123/11	300.0	89.901468	50.0	1460539.0	0.299672	Y



Calibration / 2,2-Dichloropropane

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

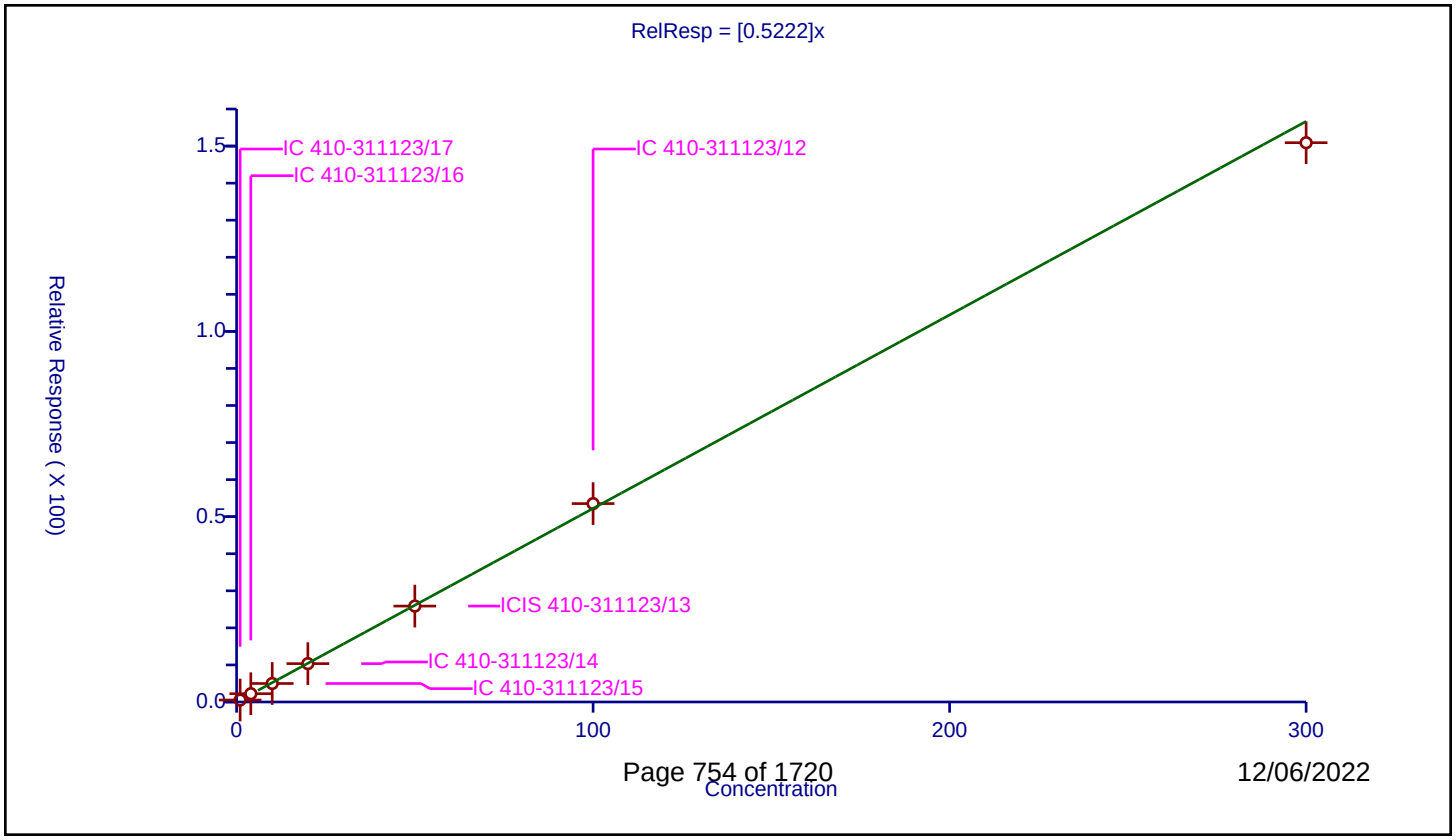
Curve Coefficients

Intercept:	0
Slope:	0.5222

Error Coefficients

Standard Error:	1930000
Relative Standard Error:	3.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.525274	50.0	1396224.0	0.525274	Y
2	IC 410-311123/16	4.0	2.23064	50.0	1351563.0	0.55766	Y
3	IC 410-311123/15	10.0	4.992357	50.0	1411017.0	0.499236	Y
4	IC 410-311123/14	20.0	10.348259	50.0	1391350.0	0.517413	Y
5	ICIS 410-311123/13	50.0	25.879056	50.0	1392317.0	0.517581	Y
6	IC 410-311123/12	100.0	53.526809	50.0	1410907.0	0.535268	Y
7	IC 410-311123/11	300.0	150.908569	50.0	1460539.0	0.503029	Y



Calibration / 2-Butanone (MEK)

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

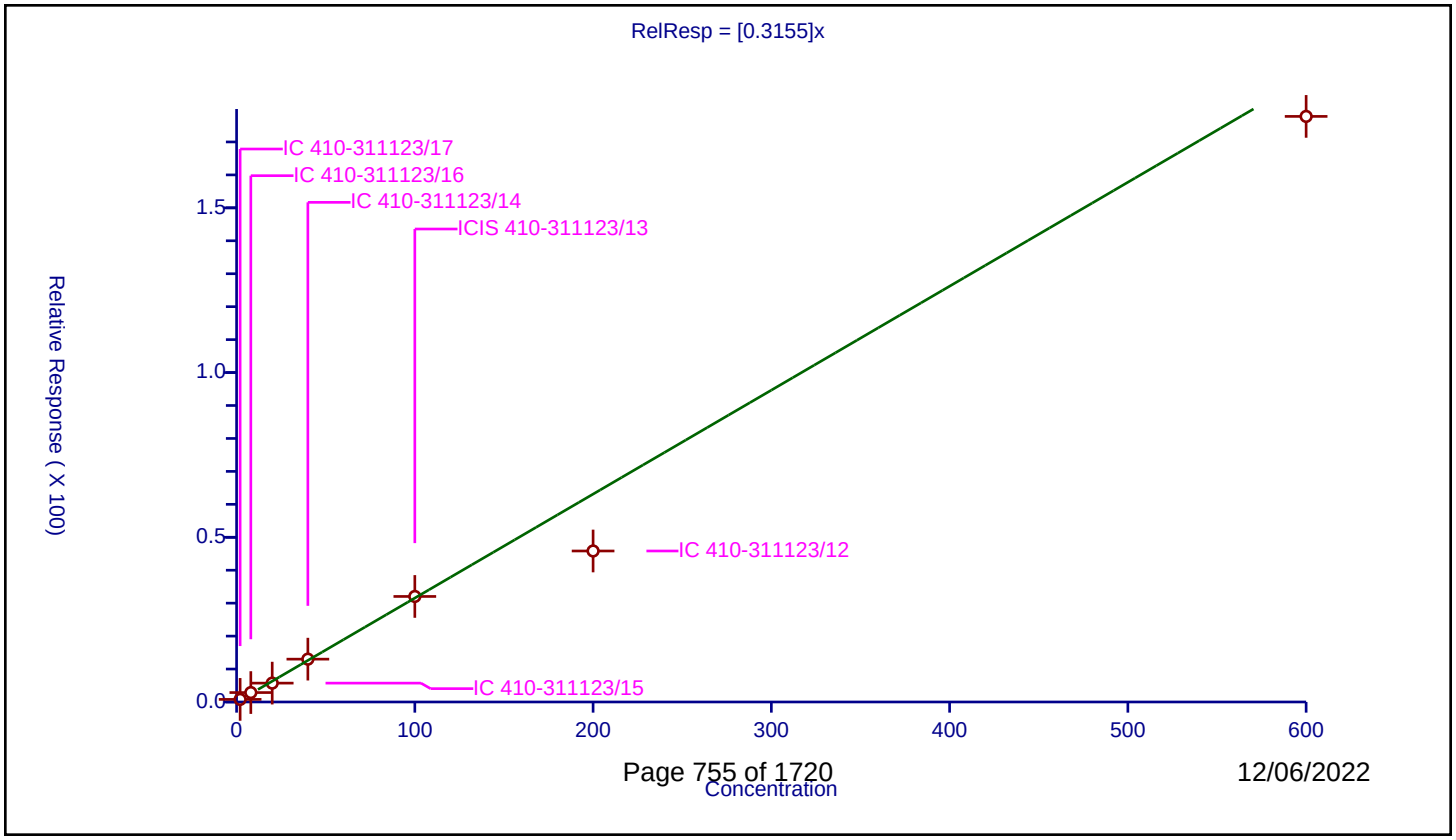
Curve Coefficients

Intercept:	0
Slope:	0.3155

Error Coefficients

Standard Error:	2220000
Relative Standard Error:	16.7
Correlation Coefficient:	0.992
Coefficient of Determination (Adjusted):	0.963

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	2.0	0.787302	50.0	1396224.0	0.393651	Y
2	IC 410-311123/16	8.0	2.860984	50.0	1351563.0	0.357623	Y
3	IC 410-311123/15	20.0	5.730618	50.0	1411017.0	0.286531	Y
4	IC 410-311123/14	40.0	13.004384	50.0	1391350.0	0.32511	Y
5	ICIS 410-311123/13	100.0	32.031858	50.0	1392317.0	0.320319	Y
6	IC 410-311123/12	200.0	45.836295	50.0	1410907.0	0.229181	Y
7	IC 410-311123/11	600.0	177.756876	50.0	1460539.0	0.296261	Y



Calibration / Propionitrile

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

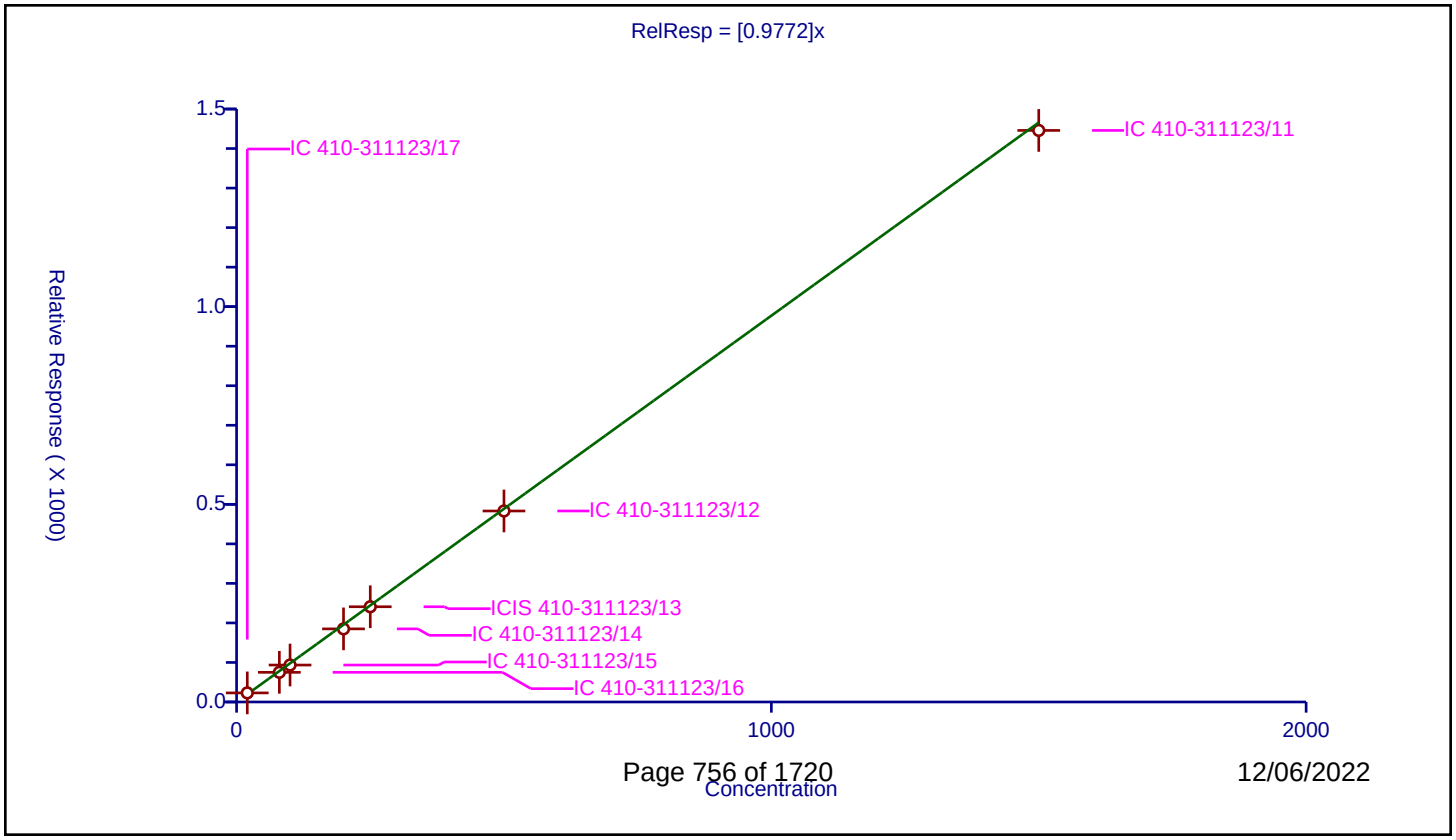
Curve Coefficients

Intercept:	0
Slope:	0.9772

Error Coefficients

Standard Error:	1890000
Relative Standard Error:	7.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	20.0	22.976218	250.0	601720.0	1.148811	Y
2	IC 410-311123/16	80.0	75.039908	250.0	723545.0	0.937999	Y
3	IC 410-311123/15	100.0	93.485595	250.0	751450.0	0.934856	Y
4	IC 410-311123/14	200.0	184.926128	250.0	750620.0	0.924631	Y
5	ICIS 410-311123/13	250.0	240.94665	250.0	746464.0	0.963787	Y
6	IC 410-311123/12	500.0	483.188425	250.0	758183.0	0.966377	Y
7	IC 410-311123/11	1500.0	1445.839229	250.0	739202.0	0.963893	Y



Calibration / Methacrylonitrile

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

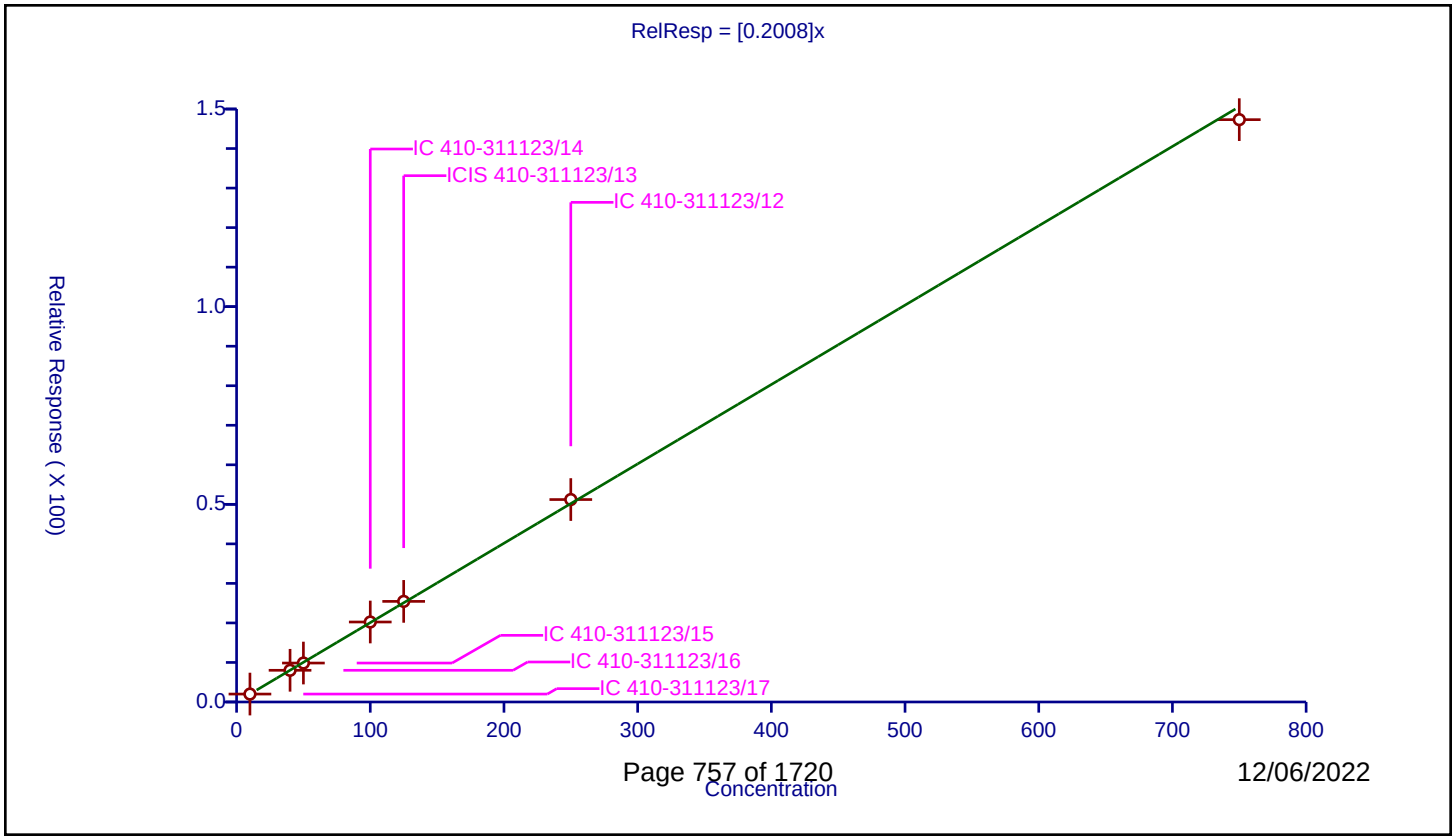
Curve Coefficients

Intercept:	0
Slope:	0.2008

Error Coefficients

Standard Error:	1900000
Relative Standard Error:	1.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	10.0	2.006913	50.0	1396224.0	0.200691	Y
2	IC 410-311123/16	40.0	8.020344	50.0	1351563.0	0.200509	Y
3	IC 410-311123/15	50.0	9.85137	50.0	1411017.0	0.197027	Y
4	IC 410-311123/14	100.0	20.230747	50.0	1391350.0	0.202307	Y
5	ICIS 410-311123/13	125.0	25.447043	50.0	1392317.0	0.203576	Y
6	IC 410-311123/12	250.0	51.209718	50.0	1410907.0	0.204839	Y
7	IC 410-311123/11	750.0	147.311643	50.0	1460539.0	0.196416	Y



Calibration / Chlorobromomethane

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

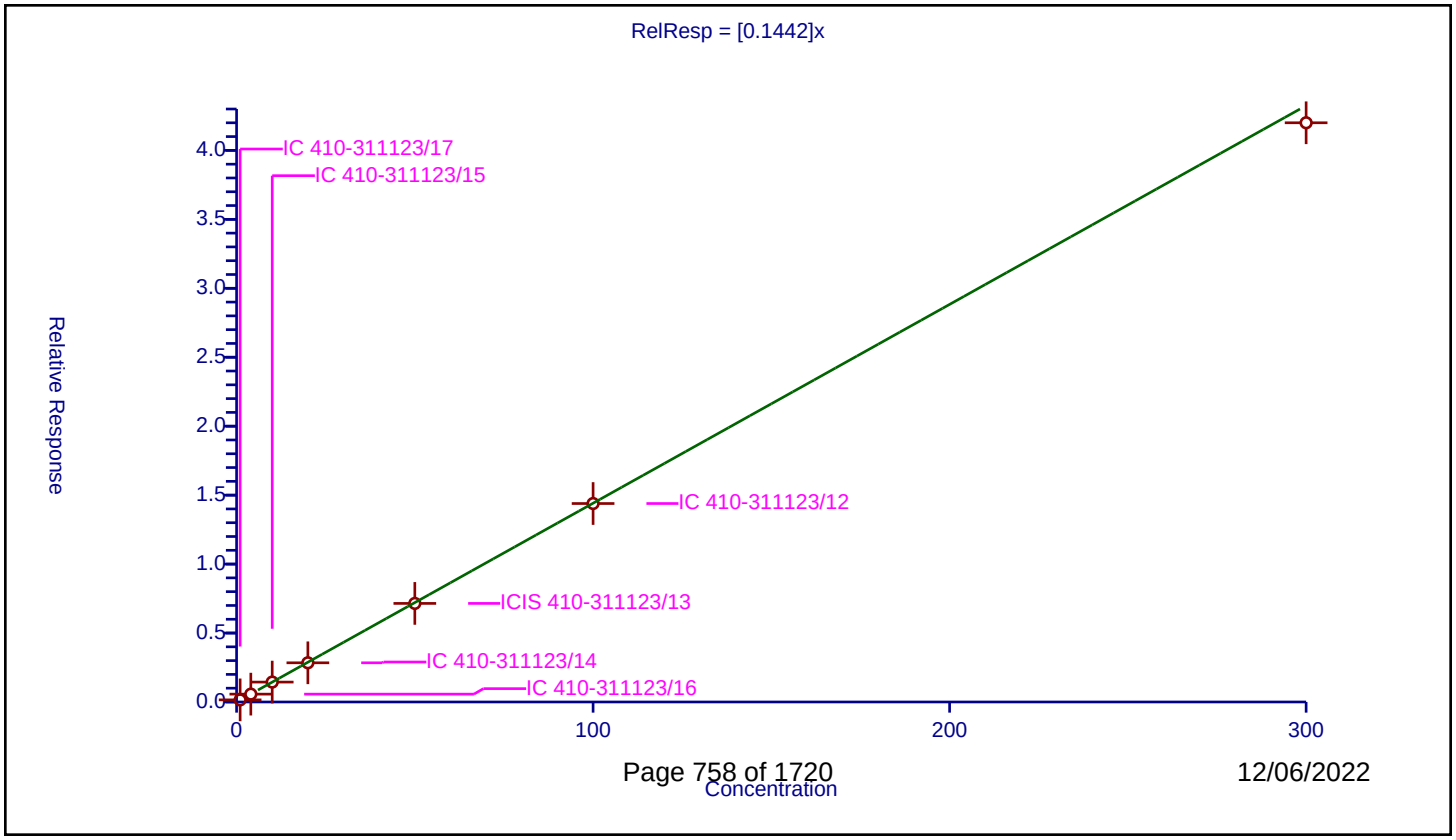
Curve Coefficients

Intercept:	0
Slope:	0.1442

Error Coefficients

Standard Error:	535000
Relative Standard Error:	2.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.153163	50.0	1396224.0	0.153163	Y
2	IC 410-311123/16	4.0	0.570192	50.0	1351563.0	0.142548	Y
3	IC 410-311123/15	10.0	1.444313	50.0	1411017.0	0.144431	Y
4	IC 410-311123/14	20.0	2.842096	50.0	1391350.0	0.142105	Y
5	ICIS 410-311123/13	50.0	7.147474	50.0	1392317.0	0.142949	Y
6	IC 410-311123/12	100.0	14.391097	50.0	1410907.0	0.143911	Y
7	IC 410-311123/11	300.0	42.002096	50.0	1460539.0	0.140007	Y



Calibration / Tetrahydrofuran

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

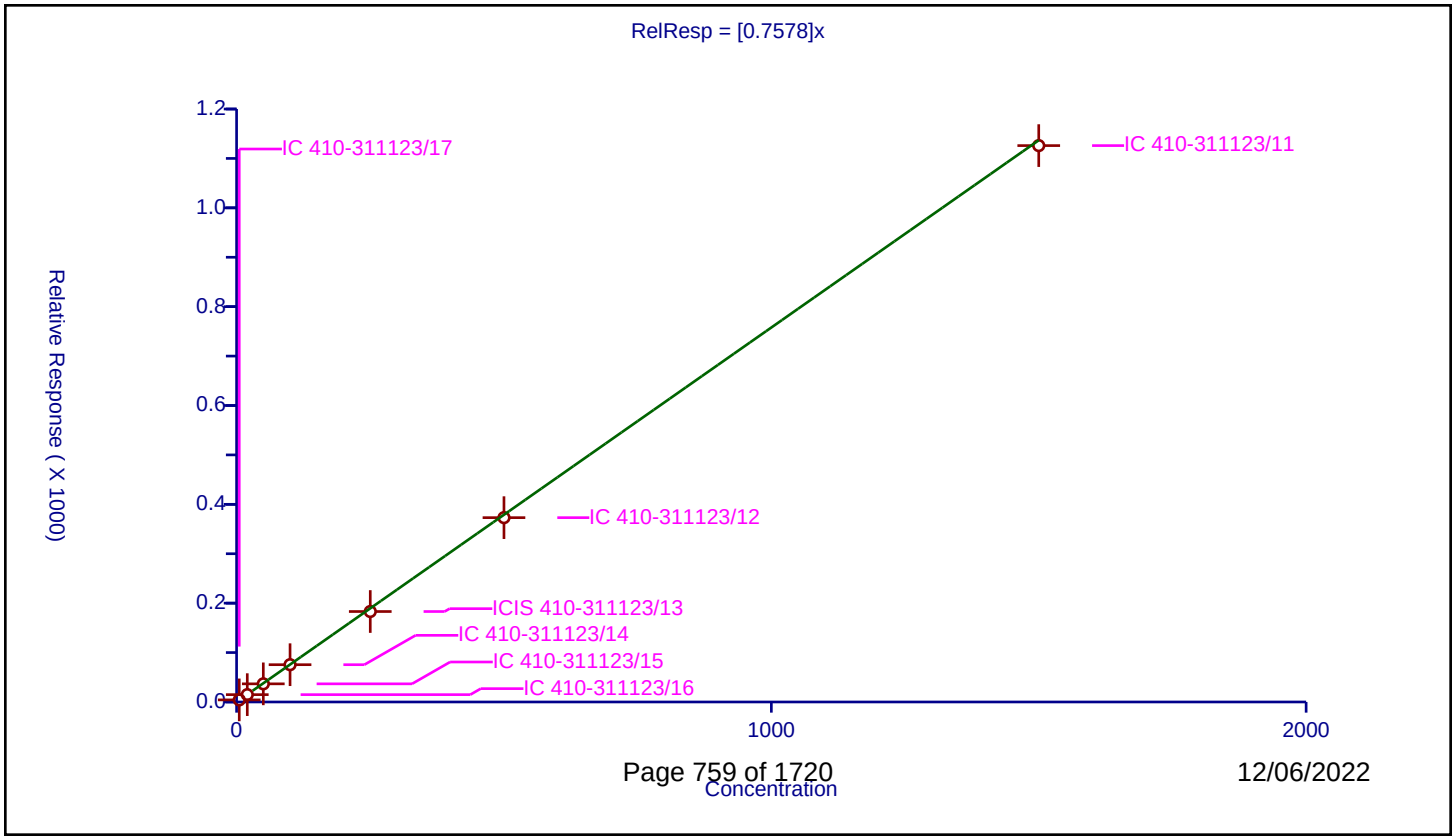
Curve Coefficients

Intercept:	0
Slope:	0.7578

Error Coefficients

Standard Error:	1460000
Relative Standard Error:	5.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	5.0	4.215831	250.0	601720.0	0.843166	Y
2	IC 410-311123/16	20.0	14.870879	250.0	723545.0	0.743544	Y
3	IC 410-311123/15	50.0	36.725331	250.0	751450.0	0.734507	Y
4	IC 410-311123/14	100.0	75.466947	250.0	750620.0	0.754669	Y
5	ICIS 410-311123/13	250.0	183.074803	250.0	746464.0	0.732299	Y
6	IC 410-311123/12	500.0	373.036589	250.0	758183.0	0.746073	Y
7	IC 410-311123/11	1500.0	1125.932763	250.0	739202.0	0.750622	Y



Calibration / Chloroform

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

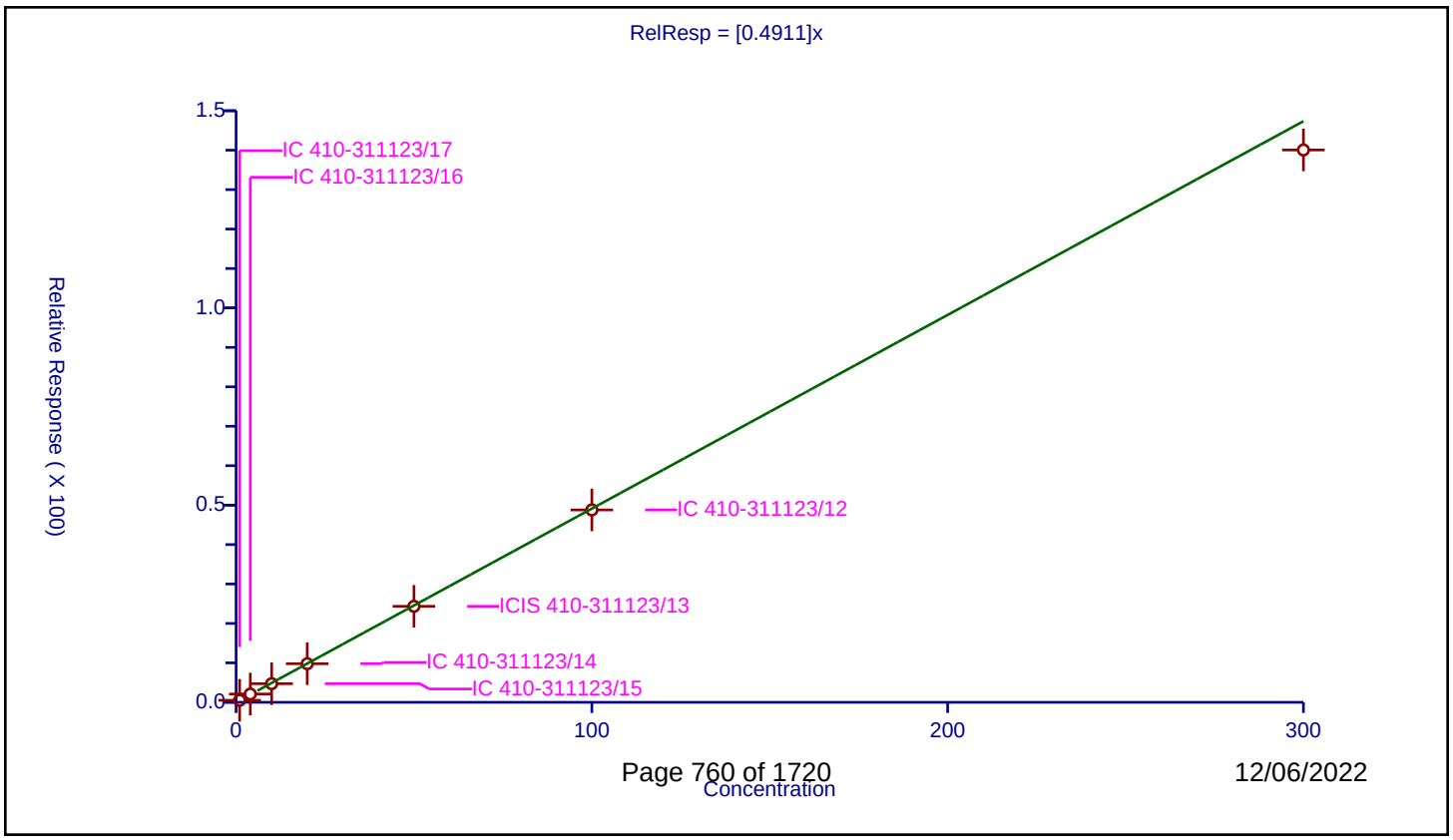
Curve Coefficients

Intercept:	0
Slope:	0.4911

Error Coefficients

Standard Error:	1790000
Relative Standard Error:	4.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.509625	50.0	1396224.0	0.509625	Y
2	IC 410-311123/16	4.0	2.101715	50.0	1351563.0	0.525429	Y
3	IC 410-311123/15	10.0	4.719787	50.0	1411017.0	0.471979	Y
4	IC 410-311123/14	20.0	9.788515	50.0	1391350.0	0.489426	Y
5	ICIS 410-311123/13	50.0	24.343379	50.0	1392317.0	0.486868	Y
6	IC 410-311123/12	100.0	48.781954	50.0	1410907.0	0.48782	Y
7	IC 410-311123/11	300.0	140.050522	50.0	1460539.0	0.466835	Y



Calibration / Dibromofluoromethane (Surr)

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

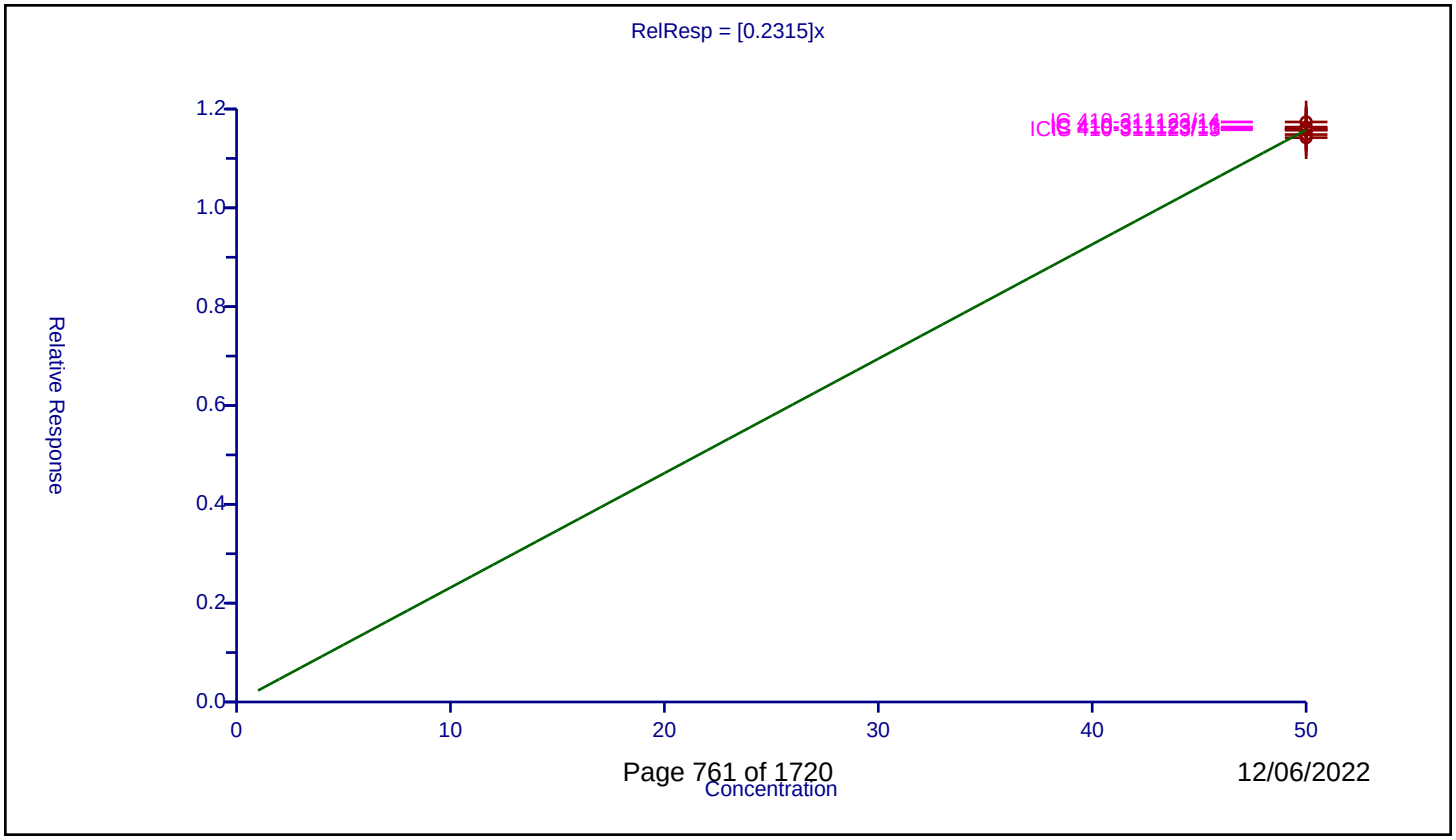
Curve Coefficients

Intercept:	0
Slope:	0.2315

Error Coefficients

Standard Error:	351000
Relative Standard Error:	0.9
Correlation Coefficient:	0.00000000000000000000
Coefficient of Determination (Adjusted):	0.000000000000000111

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/11	50.0	11.605852	50.0	1460539.0	0.232117	Y
2	IC 410-311123/12	50.0	11.483181	50.0	1410907.0	0.229664	Y
3	ICIS 410-311123/13	50.0	11.58084	50.0	1392317.0	0.231617	Y
4	IC 410-311123/14	50.0	11.737916	50.0	1391350.0	0.234758	Y
5	IC 410-311123/15	50.0	11.420486	50.0	1411017.0	0.22841	Y
6	IC 410-311123/16	50.0	11.634086	50.0	1351563.0	0.232682	Y
7	IC 410-311123/17	50.0	11.570815	50.0	1396224.0	0.231416	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

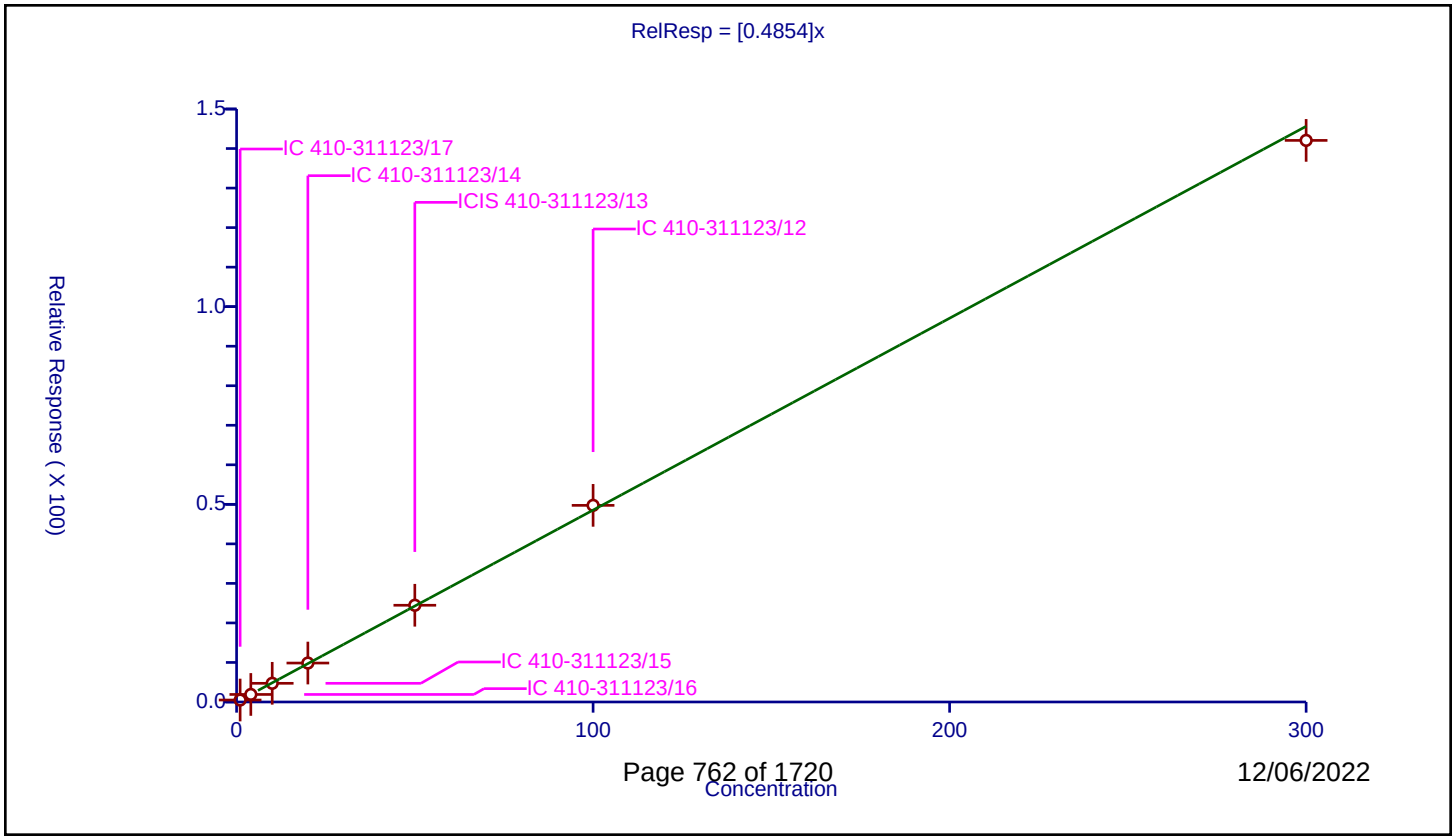
Curve Coefficients

Intercept:	0
Slope:	0.4854

Error Coefficients

Standard Error:	1810000
Relative Standard Error:	2.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.496697	50.0	1396224.0	0.496697	Y
2	IC 410-311123/16	4.0	1.903648	50.0	1351563.0	0.475912	Y
3	IC 410-311123/15	10.0	4.7245	50.0	1411017.0	0.47245	Y
4	IC 410-311123/14	20.0	9.85108	50.0	1391350.0	0.492554	Y
5	ICIS 410-311123/13	50.0	24.468386	50.0	1392317.0	0.489368	Y
6	IC 410-311123/12	100.0	49.736552	50.0	1410907.0	0.497366	Y
7	IC 410-311123/11	300.0	142.058377	50.0	1460539.0	0.473528	Y



Calibration / Cyclohexane

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

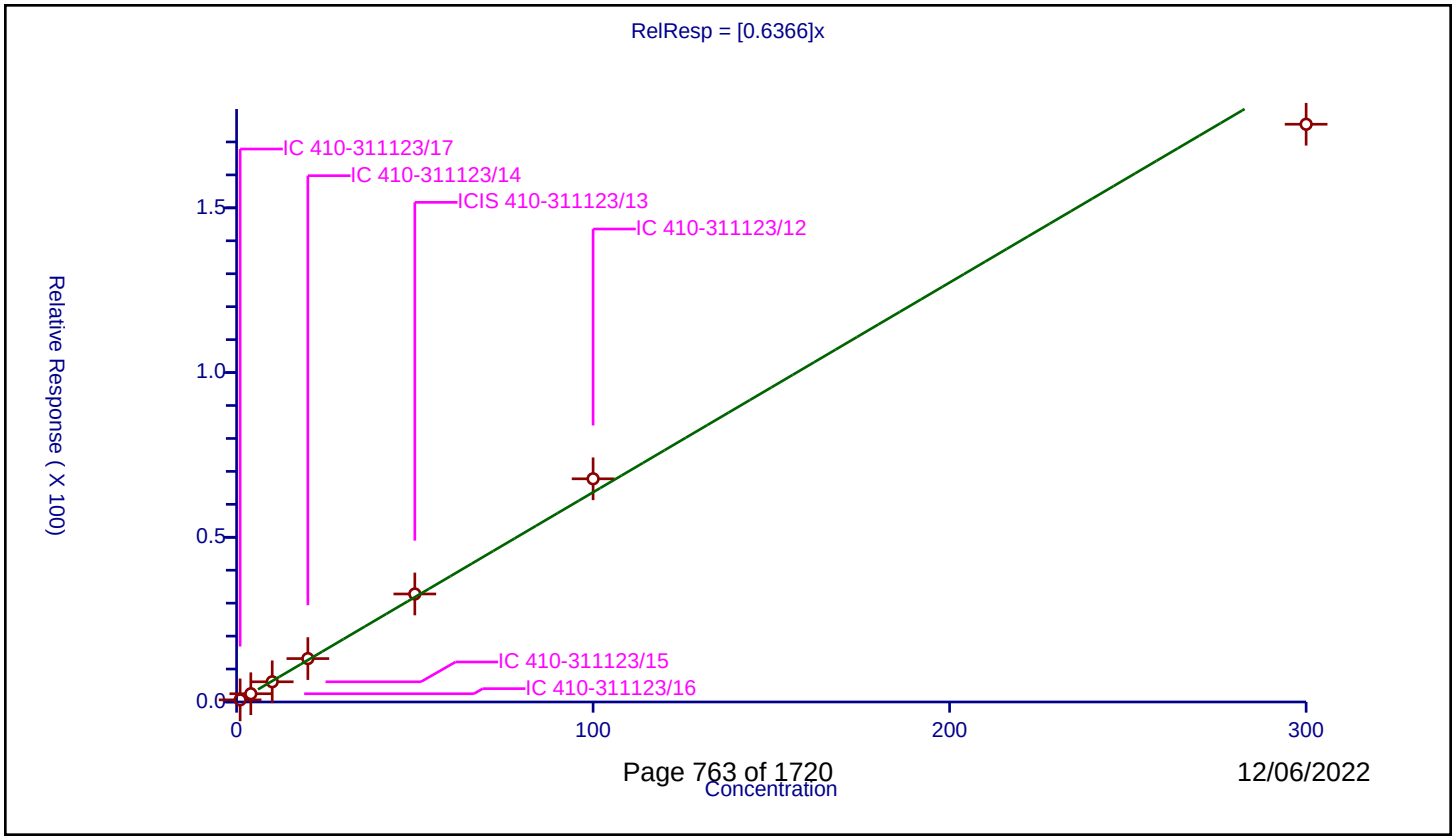
Curve Coefficients

Intercept:	0
Slope:	0.6366

Error Coefficients

Standard Error:	2270000
Relative Standard Error:	4.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.641265	50.0	1396224.0	0.641265	Y
2	IC 410-311123/16	4.0	2.501437	50.0	1351563.0	0.625359	Y
3	IC 410-311123/15	10.0	6.132456	50.0	1411017.0	0.613246	Y
4	IC 410-311123/14	20.0	13.171596	50.0	1391350.0	0.65858	Y
5	ICIS 410-311123/13	50.0	32.788366	50.0	1392317.0	0.655767	Y
6	IC 410-311123/12	100.0	67.749788	50.0	1410907.0	0.677498	Y
7	IC 410-311123/11	300.0	175.374057	50.0	1460539.0	0.58458	Y



Calibration / Carbon tetrachloride

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

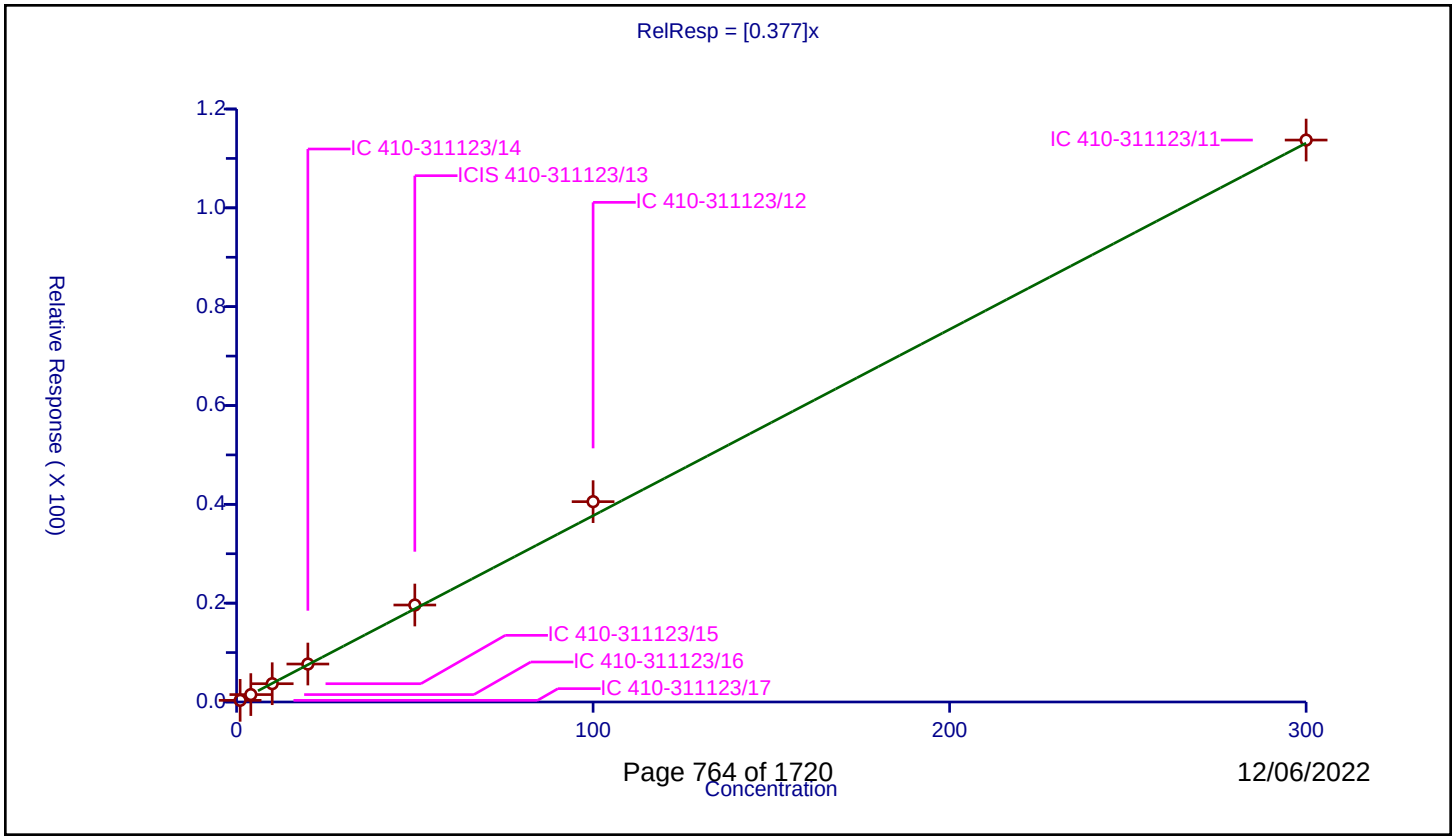
Curve Coefficients

Intercept:	0
Slope:	0.377

Error Coefficients

Standard Error:	1450000
Relative Standard Error:	6.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.333005	50.0	1396224.0	0.333005	Y
2	IC 410-311123/16	4.0	1.499153	50.0	1351563.0	0.374788	Y
3	IC 410-311123/15	10.0	3.701054	50.0	1411017.0	0.370105	Y
4	IC 410-311123/14	20.0	7.683545	50.0	1391350.0	0.384177	Y
5	ICIS 410-311123/13	50.0	19.623943	50.0	1392317.0	0.392479	Y
6	IC 410-311123/12	100.0	40.544061	50.0	1410907.0	0.405441	Y
7	IC 410-311123/11	300.0	113.717984	50.0	1460539.0	0.37906	Y



Calibration / 1,1-Dichloropropene

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

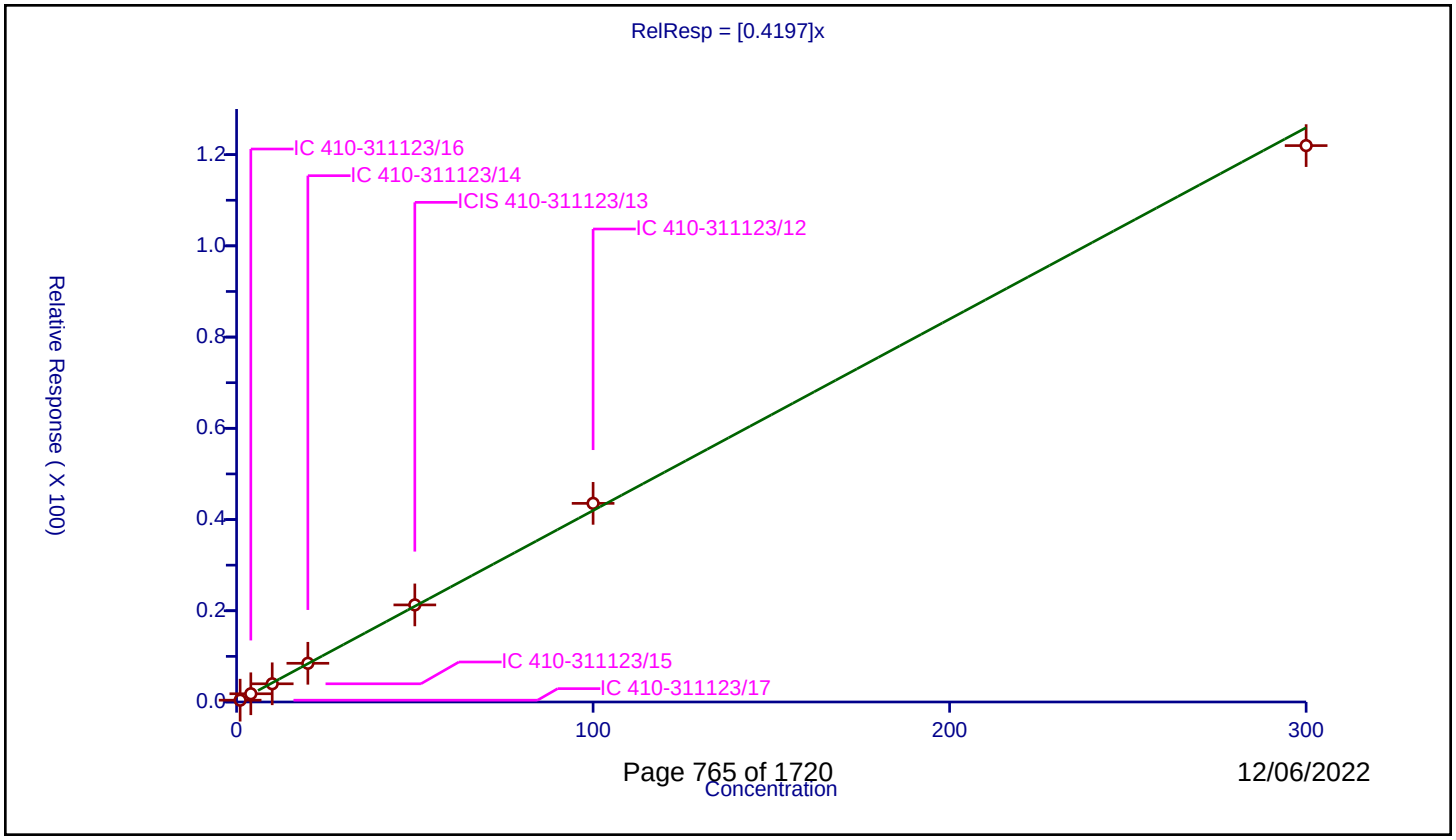
Curve Coefficients

Intercept:	0
Slope:	0.4197

Error Coefficients

Standard Error:	1560000
Relative Standard Error:	4.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.395567	50.0	1396224.0	0.395567	Y
2	IC 410-311123/16	4.0	1.80528	50.0	1351563.0	0.45132	Y
3	IC 410-311123/15	10.0	3.991802	50.0	1411017.0	0.39918	Y
4	IC 410-311123/14	20.0	8.484709	50.0	1391350.0	0.424235	Y
5	ICIS 410-311123/13	50.0	21.283623	50.0	1392317.0	0.425672	Y
6	IC 410-311123/12	100.0	43.546704	50.0	1410907.0	0.435467	Y
7	IC 410-311123/11	300.0	121.976921	50.0	1460539.0	0.40659	Y



Calibration / Isobutyl alcohol

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

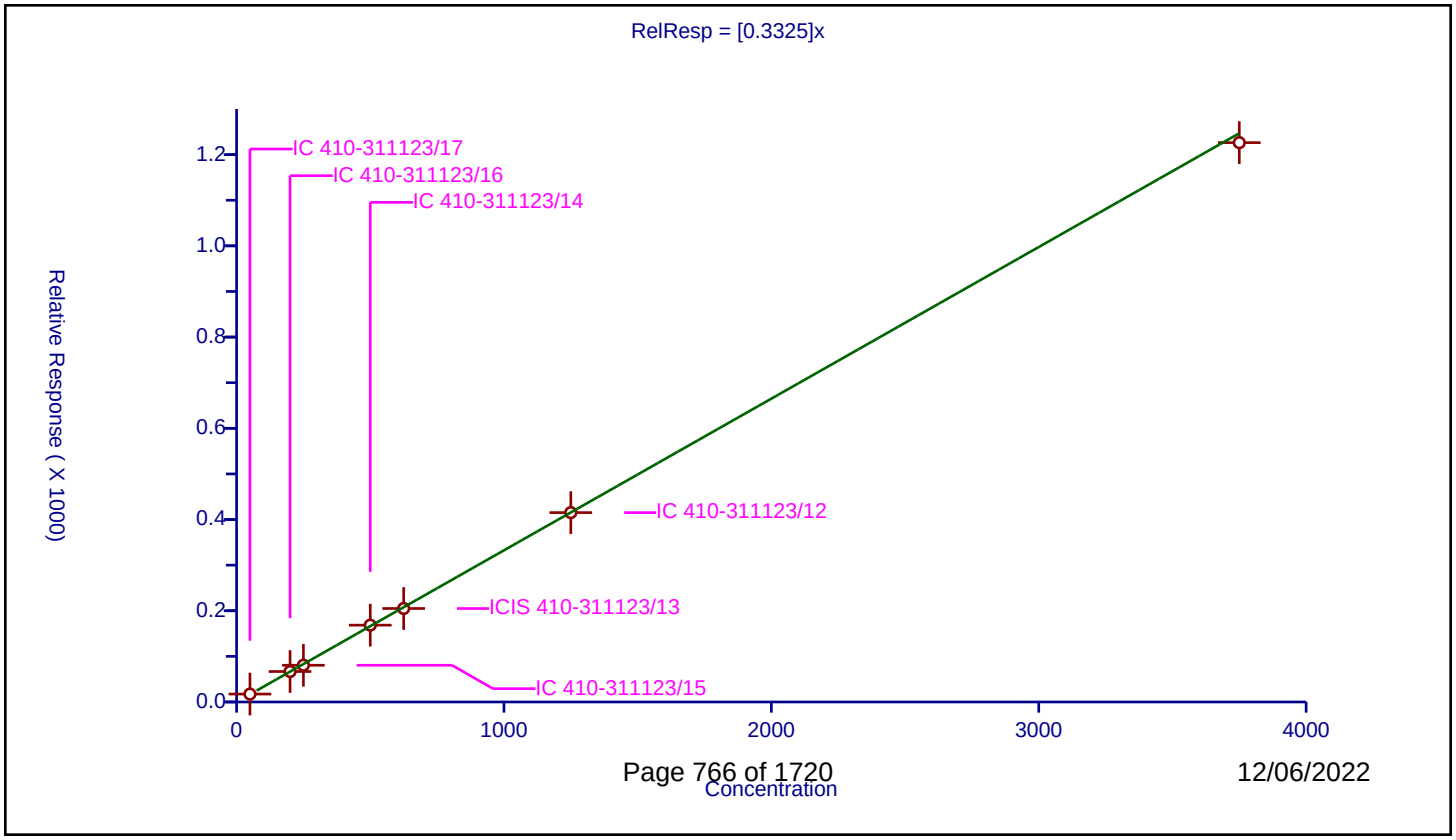
Curve Coefficients

Intercept:	0
Slope:	0.3325

Error Coefficients

Standard Error:	1600000
Relative Standard Error:	2.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	50.0	17.364389	250.0	601720.0	0.347288	Y
2	IC 410-311123/16	200.0	66.806142	250.0	723545.0	0.334031	Y
3	IC 410-311123/15	250.0	80.505024	250.0	751450.0	0.32202	Y
4	IC 410-311123/14	500.0	168.443087	250.0	750620.0	0.336886	Y
5	ICIS 410-311123/13	625.0	204.964004	250.0	746464.0	0.327942	Y
6	IC 410-311123/12	1250.0	415.186043	250.0	758183.0	0.332149	Y
7	IC 410-311123/11	3750.0	1226.302486	250.0	739202.0	0.327014	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

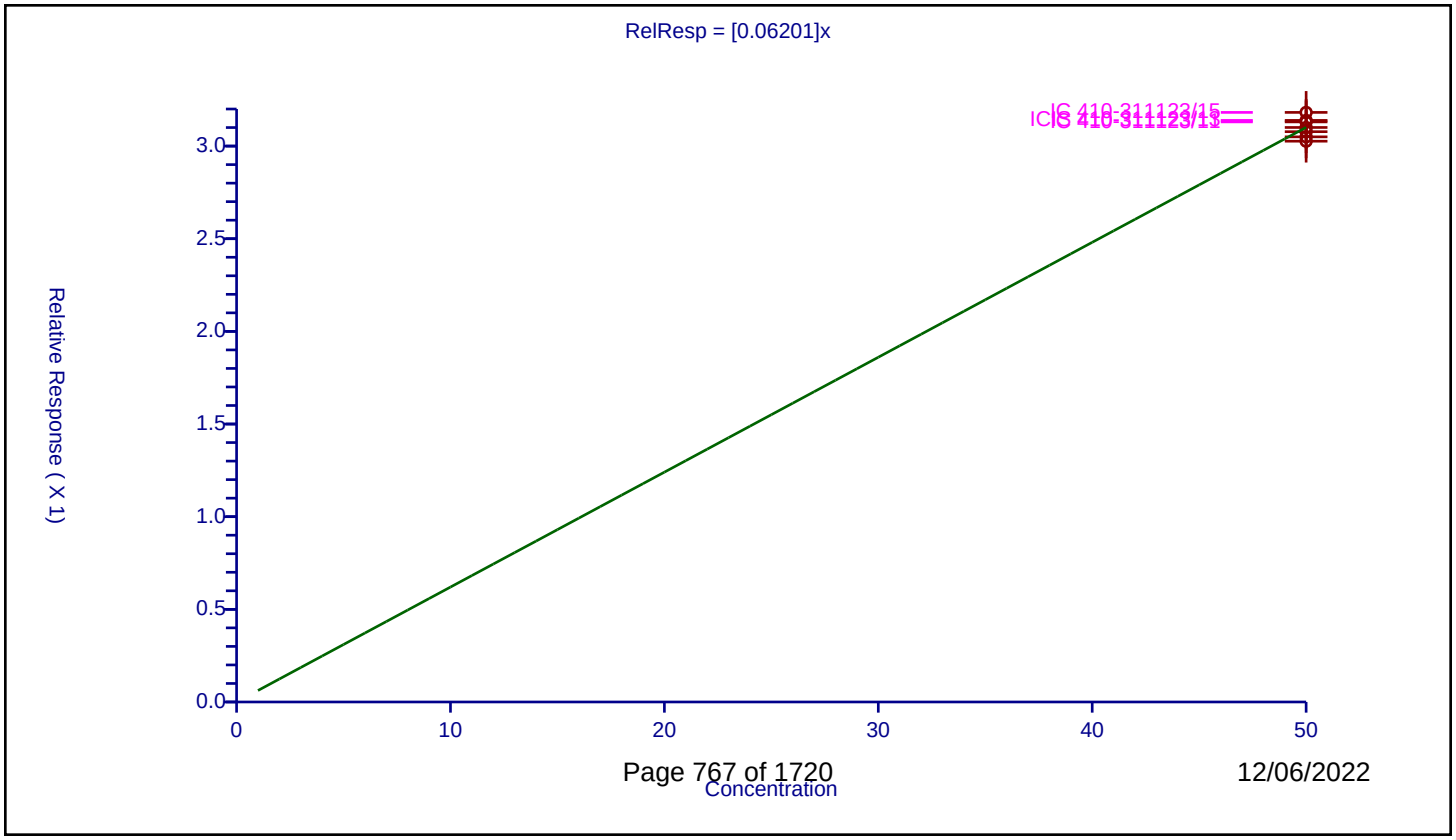
Curve Coefficients

Intercept:	0
Slope:	0.06201

Error Coefficients

Standard Error:	94000
Relative Standard Error:	1.7
Correlation Coefficient:	0.00000000000000000000
Coefficient of Determination (Adjusted):	0.000000000000000111

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/11	50.0	3.13042	50.0	1460539.0	0.062608	Y
2	IC 410-311123/12	50.0	3.077701	50.0	1410907.0	0.061554	Y
3	ICIS 410-311123/13	50.0	3.138545	50.0	1392317.0	0.062771	Y
4	IC 410-311123/14	50.0	3.049808	50.0	1391350.0	0.060996	Y
5	IC 410-311123/15	50.0	3.181677	50.0	1411017.0	0.063634	Y
6	IC 410-311123/16	50.0	3.026274	50.0	1351563.0	0.060525	Y
7	IC 410-311123/17	50.0	3.100362	50.0	1396224.0	0.062007	Y



Calibration / Benzene

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

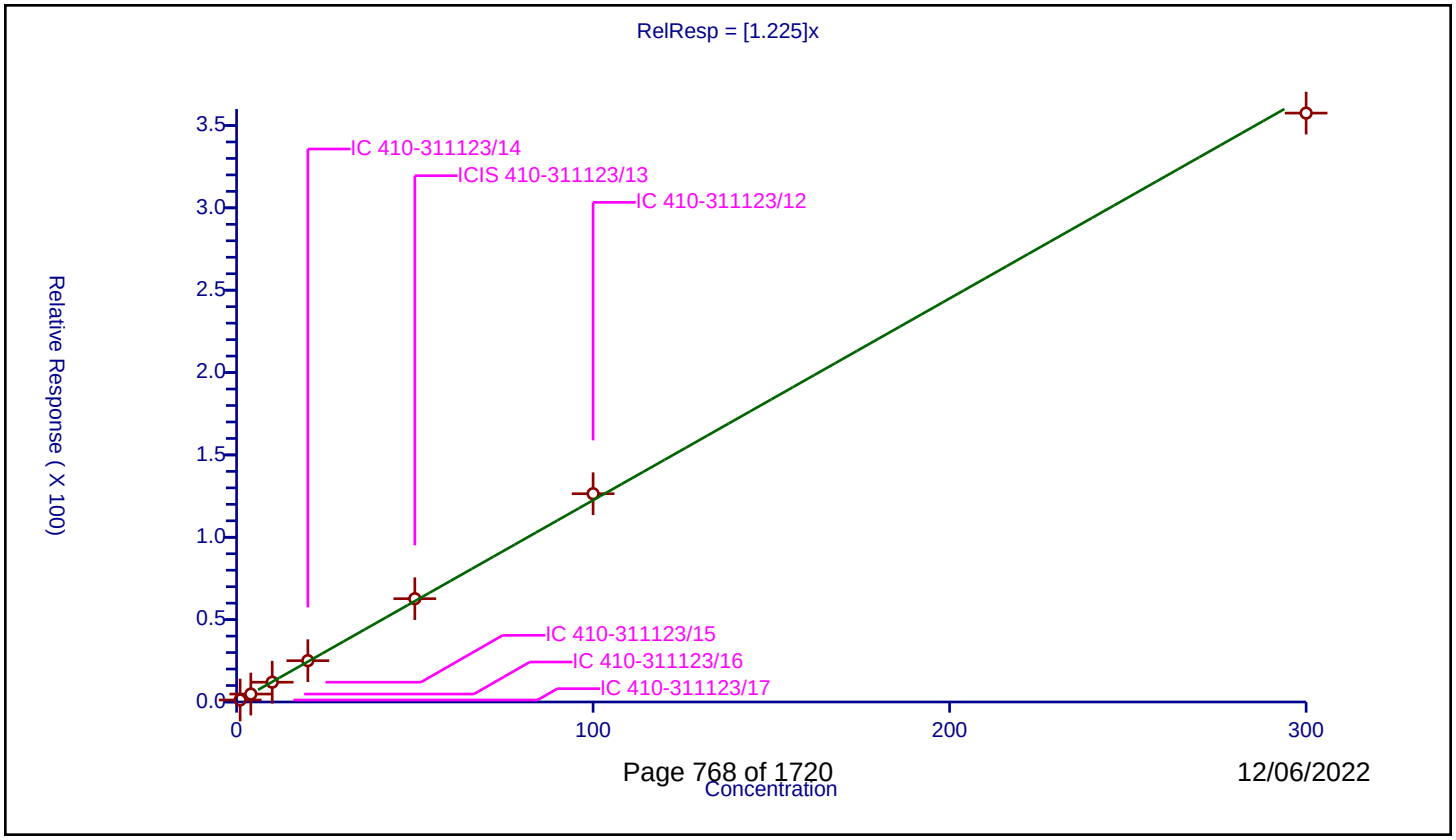
Curve Coefficients

Intercept:	0
Slope:	1.225

Error Coefficients

Standard Error:	4570000
Relative Standard Error:	2.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	1.205501	50.0	1396224.0	1.205501	Y
2	IC 410-311123/16	4.0	4.814056	50.0	1351563.0	1.203514	Y
3	IC 410-311123/15	10.0	12.001167	50.0	1411017.0	1.200117	Y
4	IC 410-311123/14	20.0	25.090308	50.0	1391350.0	1.254515	Y
5	ICIS 410-311123/13	50.0	62.711078	50.0	1392317.0	1.254222	Y
6	IC 410-311123/12	100.0	126.453551	50.0	1410907.0	1.264536	Y
7	IC 410-311123/11	300.0	357.517601	50.0	1460539.0	1.191725	Y



Calibration / 1,2-Dichloroethane

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

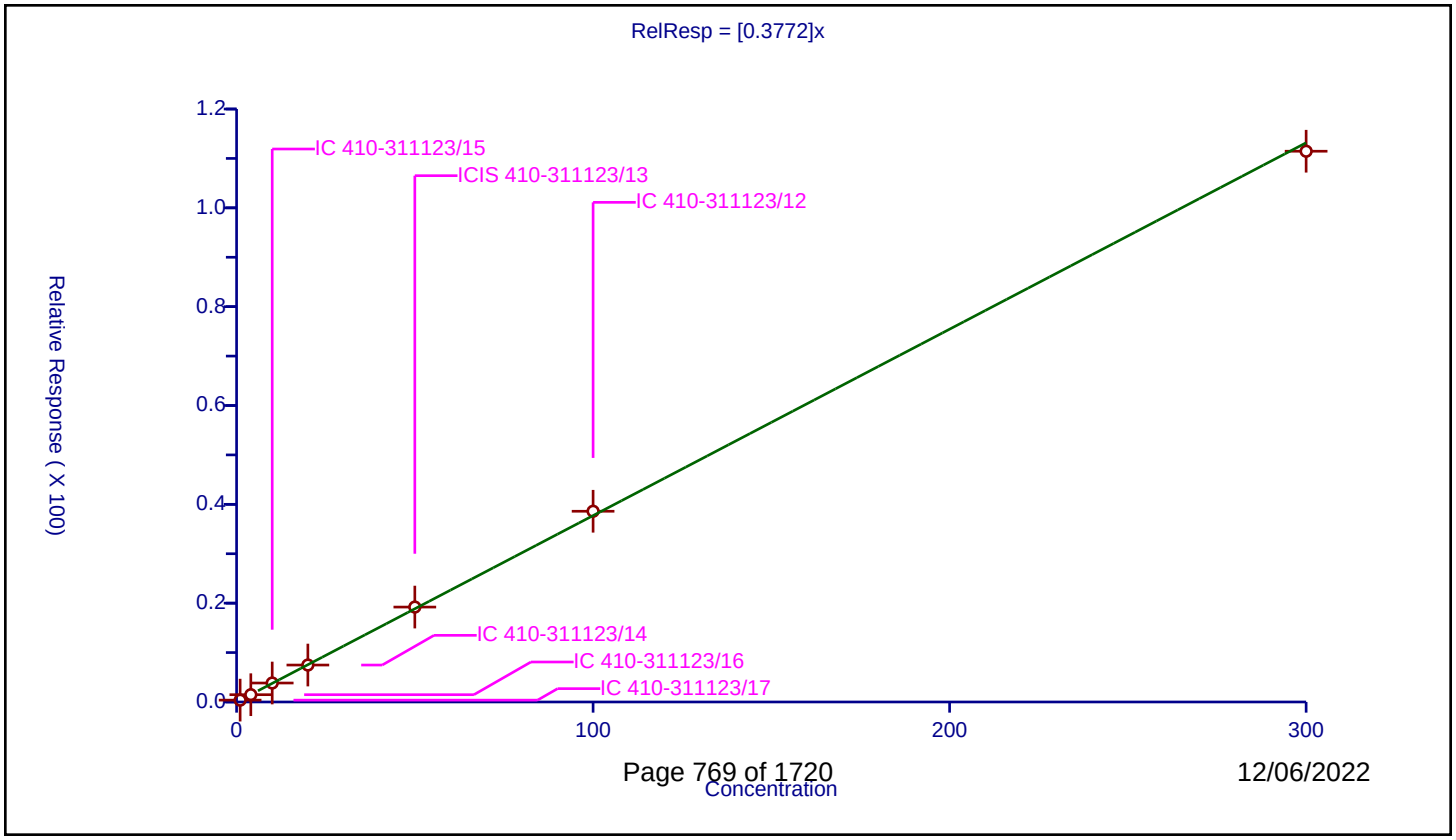
Curve Coefficients

Intercept:	0
Slope:	0.3772

Error Coefficients

Standard Error:	1420000
Relative Standard Error:	1.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.372648	50.0	1396224.0	0.372648	Y
2	IC 410-311123/16	4.0	1.474256	50.0	1351563.0	0.368564	Y
3	IC 410-311123/15	10.0	3.836984	50.0	1411017.0	0.383698	Y
4	IC 410-311123/14	20.0	7.478205	50.0	1391350.0	0.37391	Y
5	ICIS 410-311123/13	50.0	19.209239	50.0	1392317.0	0.384185	Y
6	IC 410-311123/12	100.0	38.600631	50.0	1410907.0	0.386006	Y
7	IC 410-311123/11	300.0	111.459776	50.0	1460539.0	0.371533	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

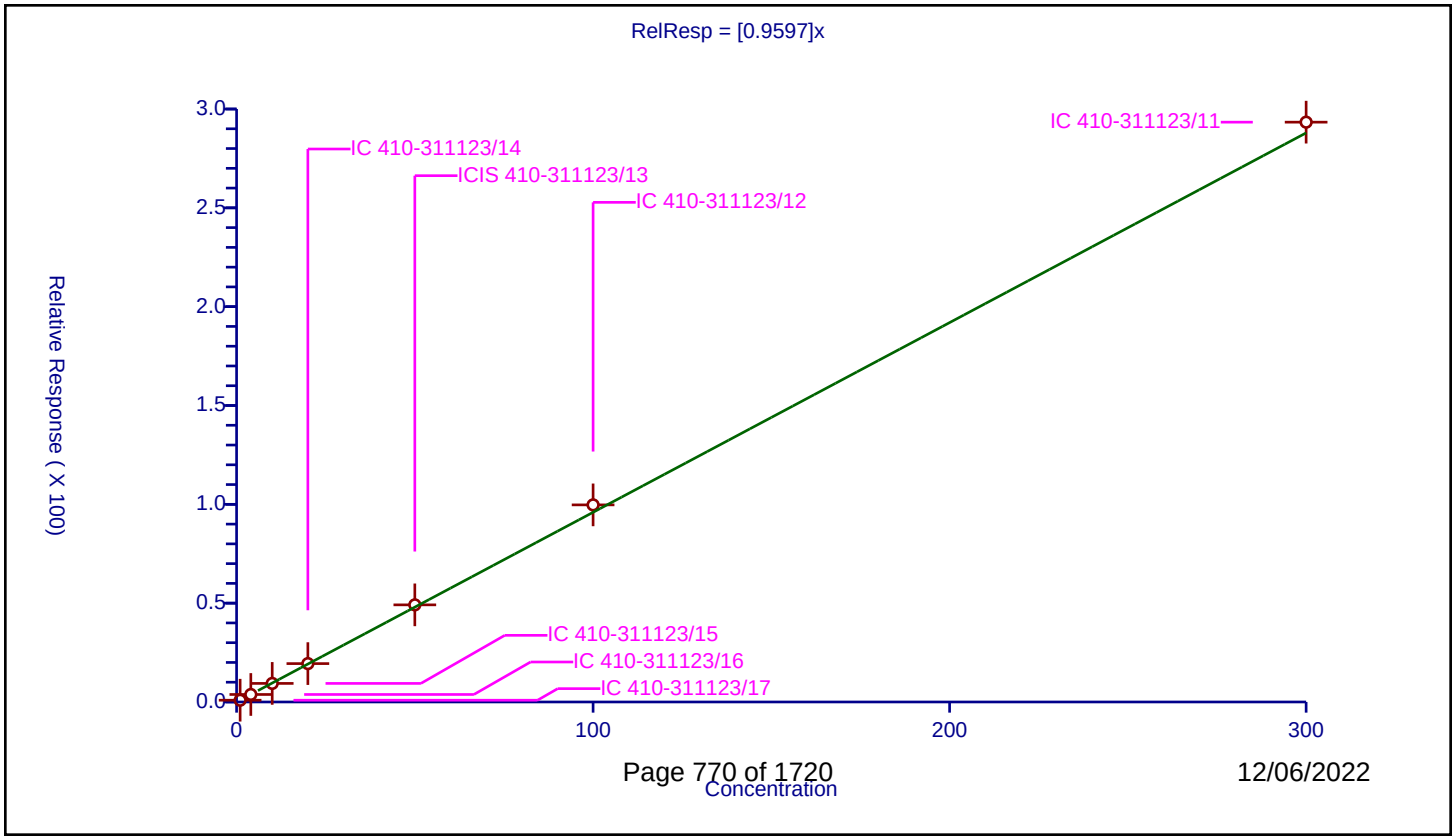
Curve Coefficients

Intercept:	0
Slope:	0.9597

Error Coefficients

Standard Error:	3730000
Relative Standard Error:	3.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.90204	50.0	1396224.0	0.90204	Y
2	IC 410-311123/16	4.0	3.791573	50.0	1351563.0	0.947893	Y
3	IC 410-311123/15	10.0	9.391666	50.0	1411017.0	0.939167	Y
4	IC 410-311123/14	20.0	19.418658	50.0	1391350.0	0.970933	Y
5	ICIS 410-311123/13	50.0	49.141216	50.0	1392317.0	0.982824	Y
6	IC 410-311123/12	100.0	99.717841	50.0	1410907.0	0.997178	Y
7	IC 410-311123/11	300.0	293.347456	50.0	1460539.0	0.977825	Y



Calibration / n-Heptane

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

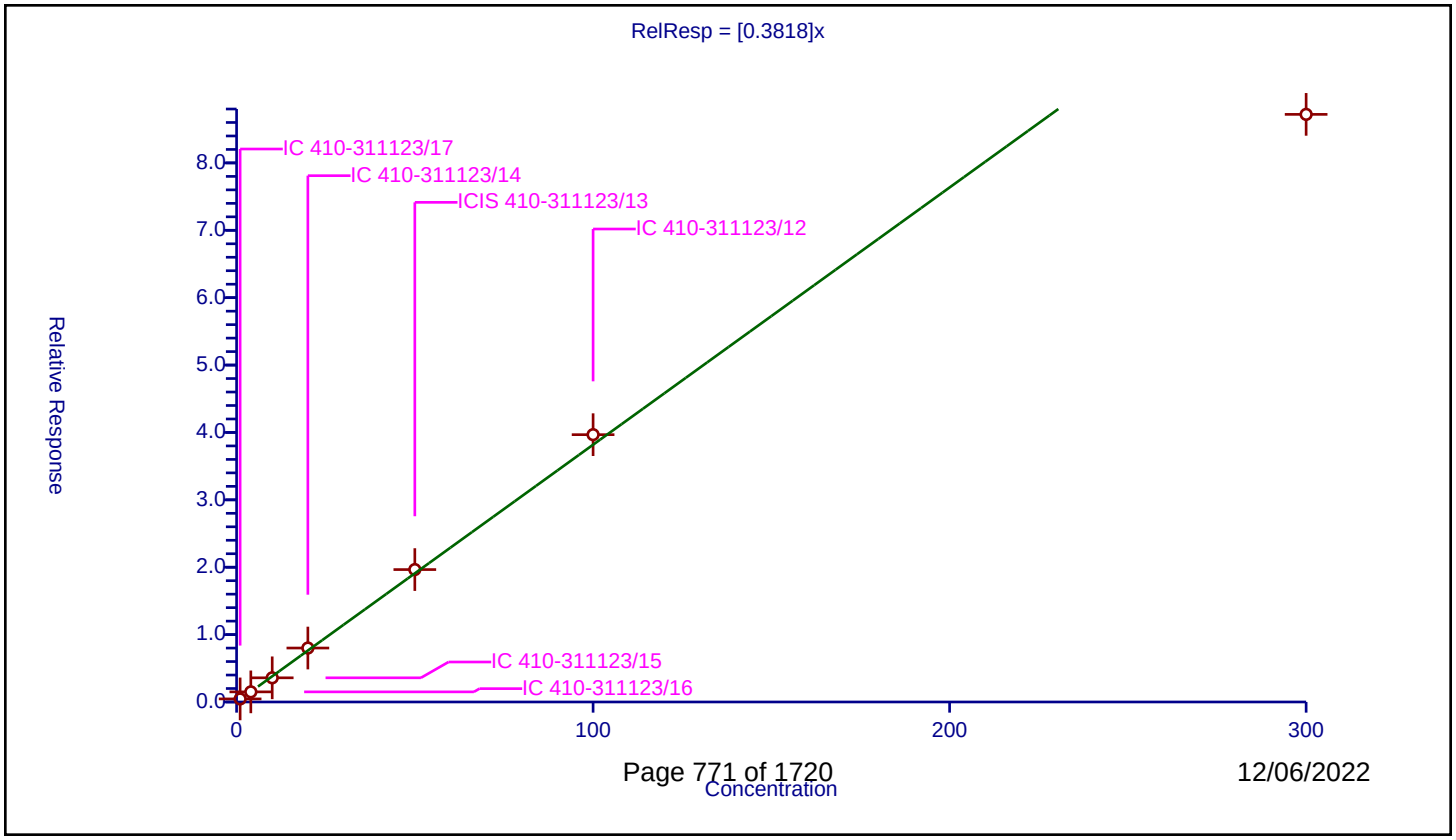
Curve Coefficients

Intercept:	0
Slope:	0.3818

Error Coefficients

Standard Error:	1160000
Relative Standard Error:	13.2
Correlation Coefficient:	0.988
Coefficient of Determination (Adjusted):	0.977

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.457591	50.0	1396224.0	0.457591	Y
2	IC 410-311123/16	4.0	1.501373	50.0	1351563.0	0.375343	Y
3	IC 410-311123/15	10.0	3.587306	50.0	1411017.0	0.358731	Y
4	IC 410-311123/14	20.0	8.007798	50.0	1391350.0	0.40039	Y
5	ICIS 410-311123/13	50.0	19.650733	50.0	1392317.0	0.393015	Y
6	IC 410-311123/12	100.0	39.672459	50.0	1410907.0	0.396725	Y
7	IC 410-311123/11	300.0	87.203765	50.0	1460539.0	0.290679	Y



Calibration / n-Butanol

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

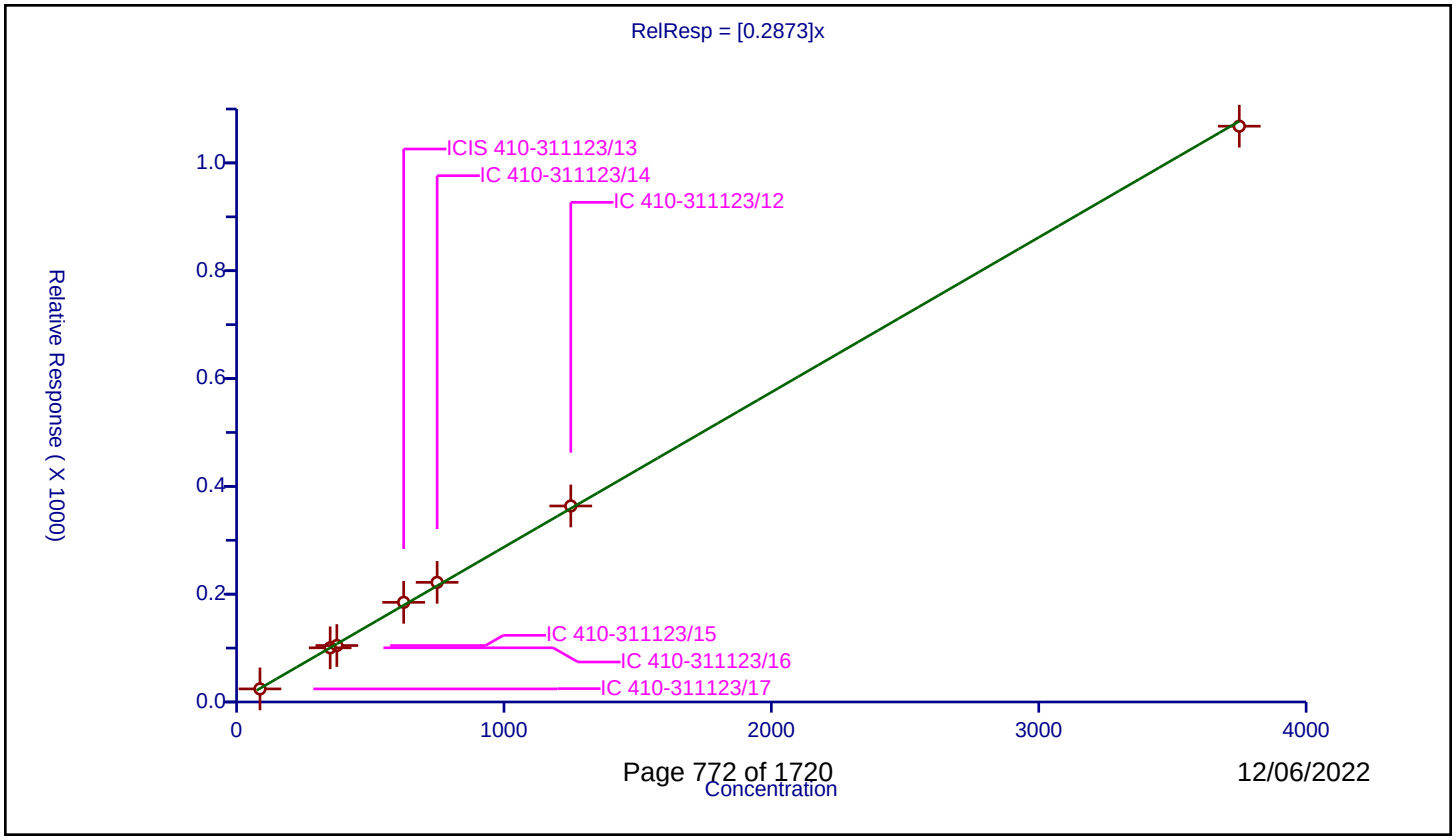
Curve Coefficients

Intercept:	0
Slope:	0.2873

Error Coefficients

Standard Error:	1420000
Relative Standard Error:	2.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	87.5	24.242588	250.0	601720.0	0.277058	Y
2	IC 410-311123/16	350.0	100.489949	250.0	723545.0	0.287114	Y
3	IC 410-311123/15	375.0	104.762459	250.0	751450.0	0.279367	Y
4	ICIS 410-311123/13	625.0	184.883665	250.0	746464.0	0.295814	Y
5	IC 410-311123/14	750.0	221.925875	250.0	750620.0	0.295901	Y
6	IC 410-311123/12	1250.0	363.592299	250.0	758183.0	0.290874	Y
7	IC 410-311123/11	3750.0	1068.15221	250.0	739202.0	0.284841	Y



Calibration / Trichloroethene

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

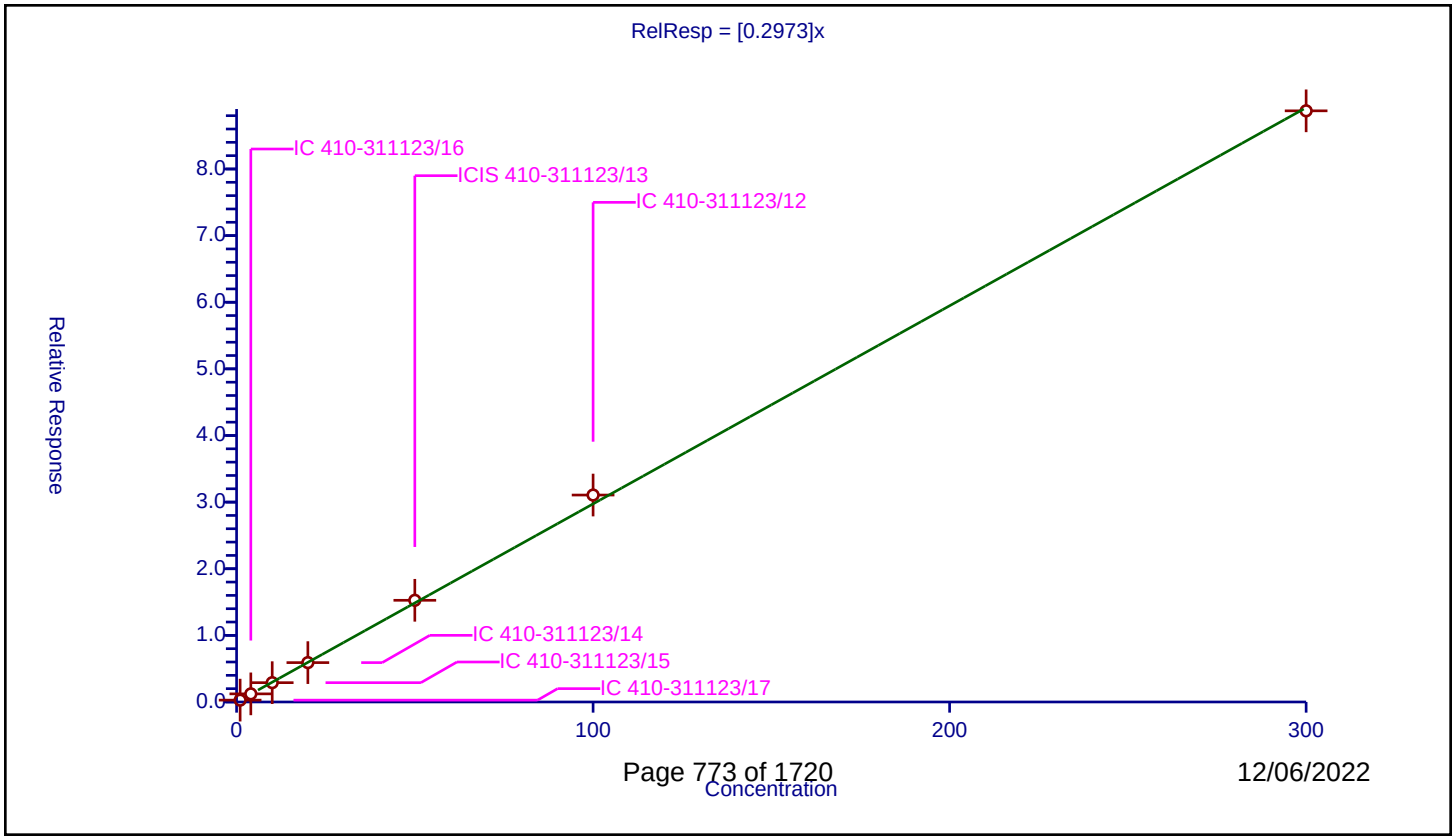
Curve Coefficients

Intercept:	0
Slope:	0.2973

Error Coefficients

Standard Error:	1130000
Relative Standard Error:	3.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.279253	50.0	1396224.0	0.279253	Y
2	IC 410-311123/16	4.0	1.219255	50.0	1351563.0	0.304814	Y
3	IC 410-311123/15	10.0	2.900993	50.0	1411017.0	0.290099	Y
4	IC 410-311123/14	20.0	5.911165	50.0	1391350.0	0.295558	Y
5	ICIS 410-311123/13	50.0	15.26197	50.0	1392317.0	0.305239	Y
6	IC 410-311123/12	100.0	31.060977	50.0	1410907.0	0.31061	Y
7	IC 410-311123/11	300.0	88.7281	50.0	1460539.0	0.29576	Y



Calibration / Methylcyclohexane

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

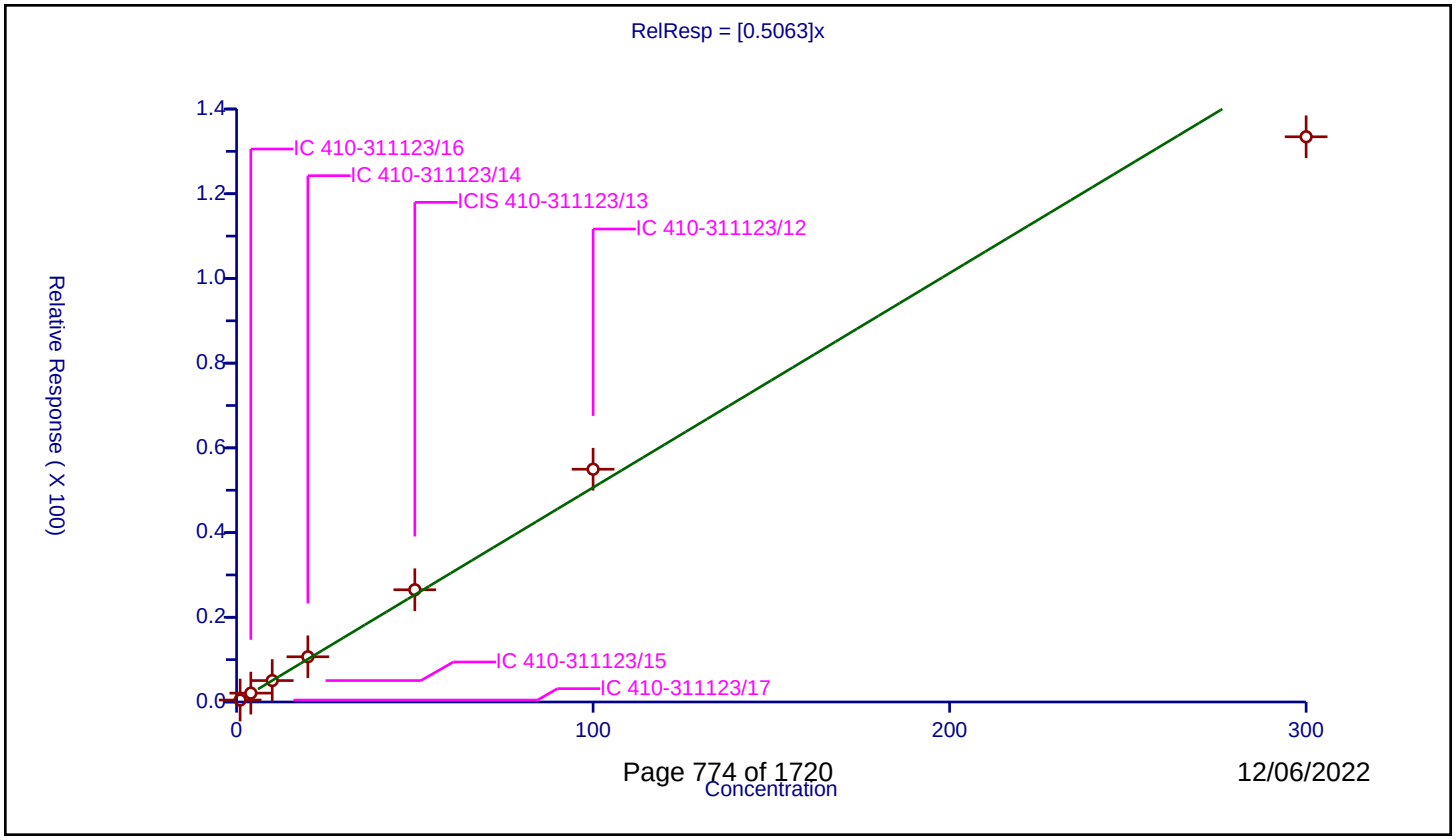
Curve Coefficients

Intercept:	0
Slope:	0.5063

Error Coefficients

Standard Error:	1740000
Relative Standard Error:	8.0
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.456445	50.0	1396224.0	0.456445	Y
2	IC 410-311123/16	4.0	2.096018	50.0	1351563.0	0.524004	Y
3	IC 410-311123/15	10.0	5.059365	50.0	1411017.0	0.505936	Y
4	IC 410-311123/14	20.0	10.673914	50.0	1391350.0	0.533696	Y
5	ICIS 410-311123/13	50.0	26.493643	50.0	1392317.0	0.529873	Y
6	IC 410-311123/12	100.0	54.955748	50.0	1410907.0	0.549557	Y
7	IC 410-311123/11	300.0	133.448473	50.0	1460539.0	0.444828	Y



Calibration / 1,2-Dichloropropane

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

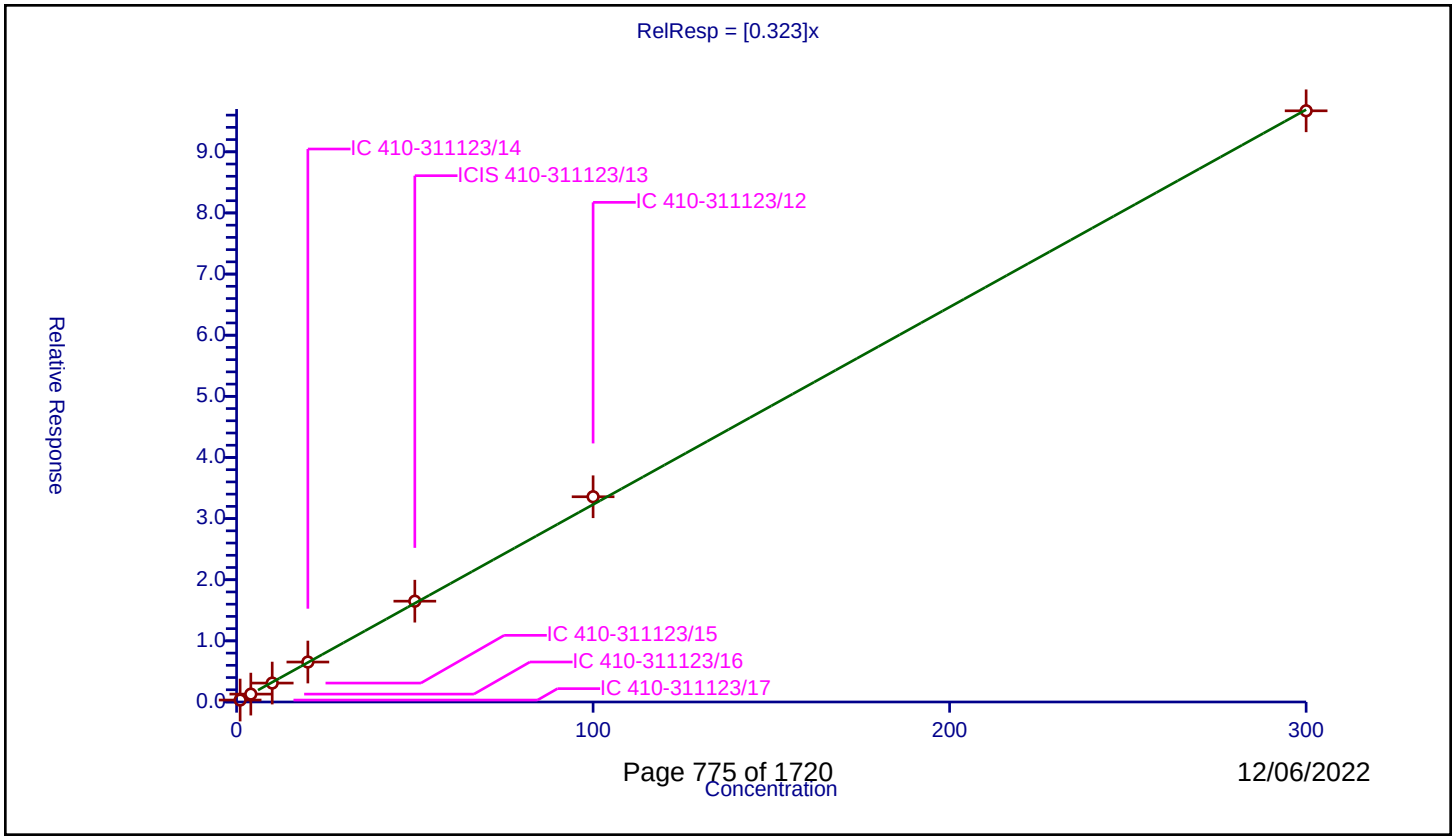
Curve Coefficients

Intercept:	0
Slope:	0.323

Error Coefficients

Standard Error:	1230000
Relative Standard Error:	2.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.31424	50.0	1396224.0	0.31424	Y
2	IC 410-311123/16	4.0	1.289137	50.0	1351563.0	0.322284	Y
3	IC 410-311123/15	10.0	3.097092	50.0	1411017.0	0.309709	Y
4	IC 410-311123/14	20.0	6.534984	50.0	1391350.0	0.326749	Y
5	ICIS 410-311123/13	50.0	16.491467	50.0	1392317.0	0.329829	Y
6	IC 410-311123/12	100.0	33.573793	50.0	1410907.0	0.335738	Y
7	IC 410-311123/11	300.0	96.705976	50.0	1460539.0	0.322353	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

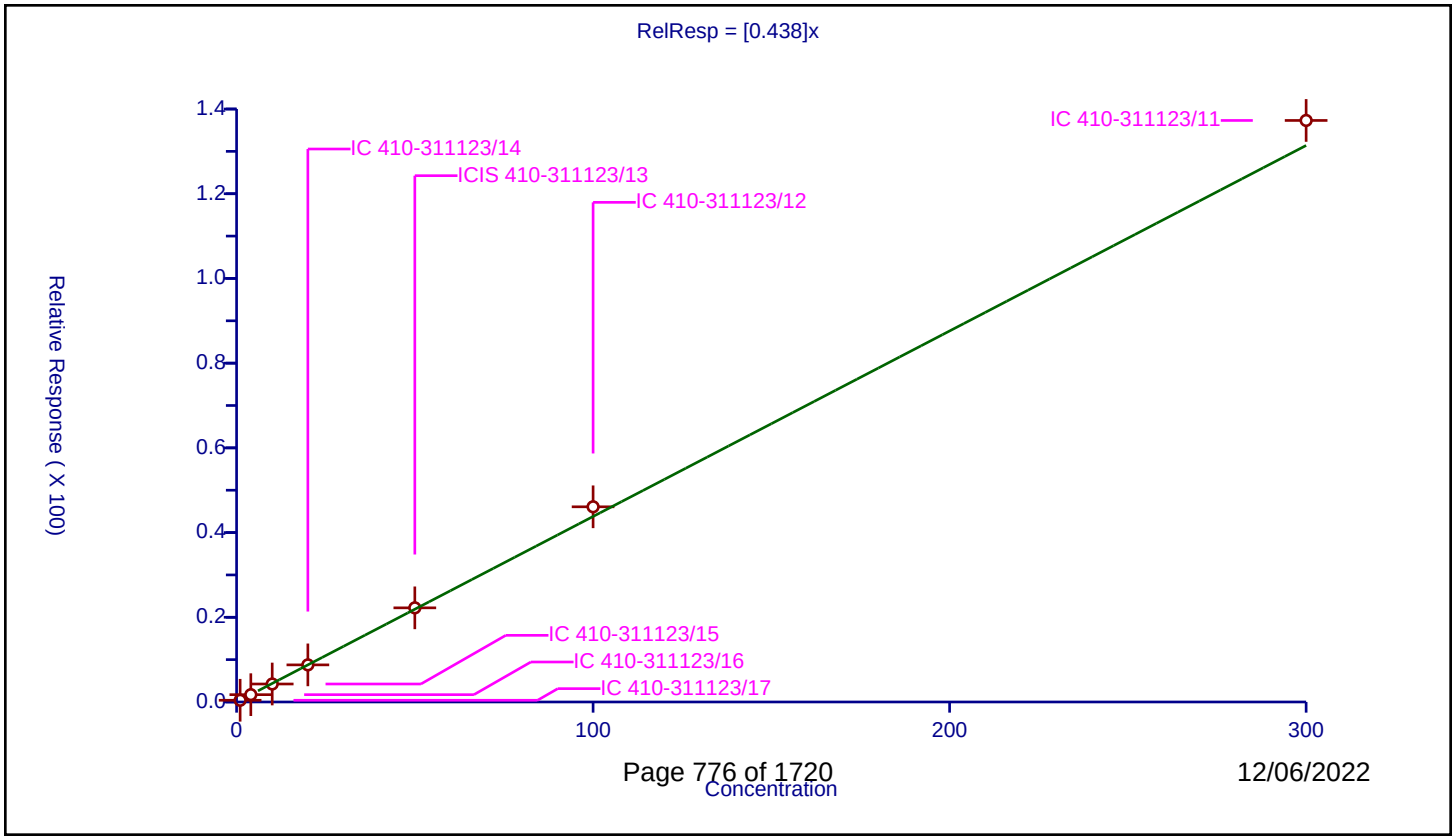
Curve Coefficients

Intercept:	0
Slope:	0.438

Error Coefficients

Standard Error:	1740000
Relative Standard Error:	4.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.408566	50.0	1396224.0	0.408566	Y
2	IC 410-311123/16	4.0	1.726631	50.0	1351563.0	0.431658	Y
3	IC 410-311123/15	10.0	4.244917	50.0	1411017.0	0.424492	Y
4	IC 410-311123/14	20.0	8.763539	50.0	1391350.0	0.438177	Y
5	ICIS 410-311123/13	50.0	22.224967	50.0	1392317.0	0.444499	Y
6	IC 410-311123/12	100.0	46.085036	50.0	1410907.0	0.46085	Y
7	IC 410-311123/11	300.0	137.299278	50.0	1460539.0	0.457664	Y



Calibration / Dibromomethane

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

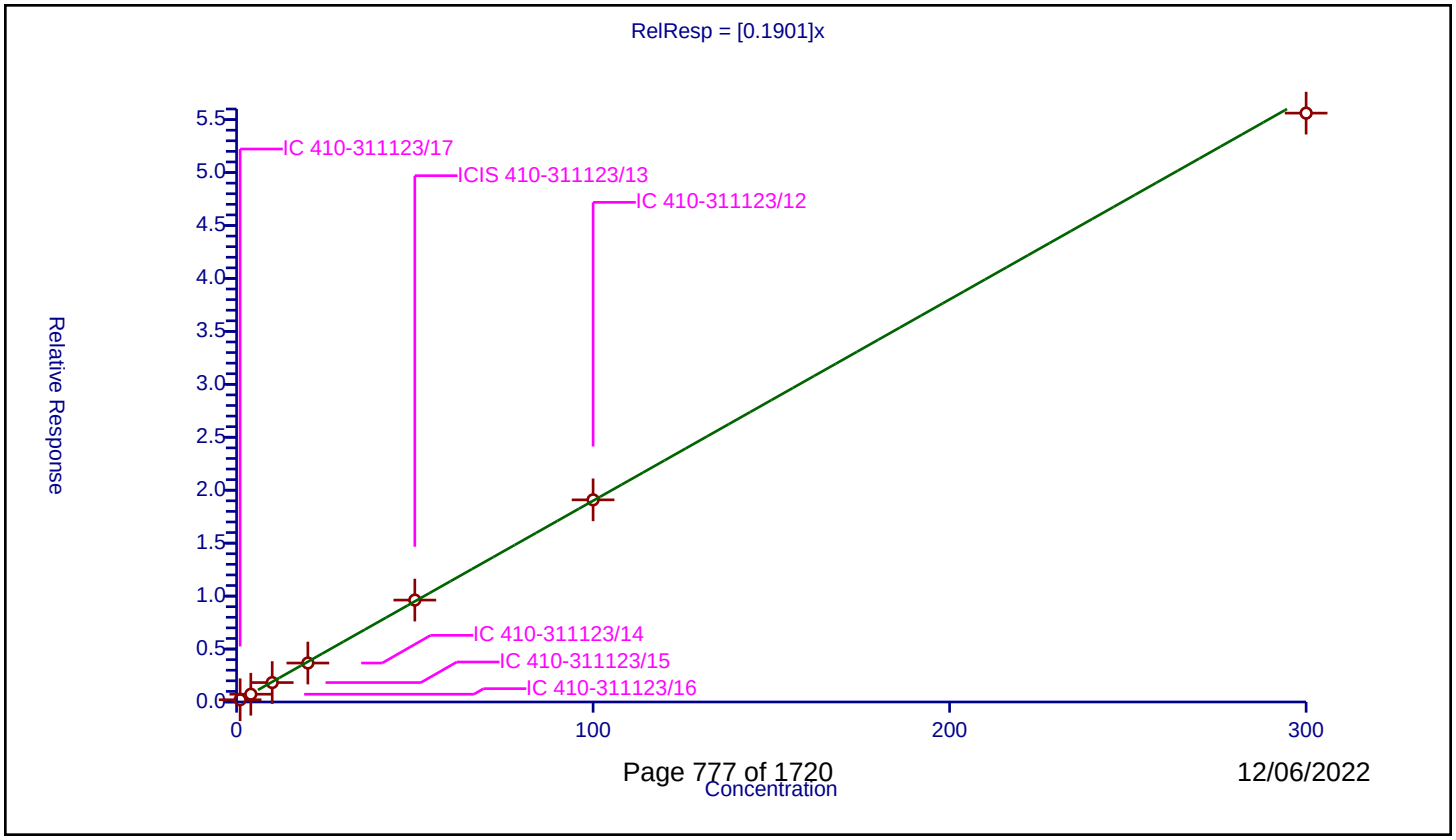
Curve Coefficients

Intercept:	0
Slope:	0.1901

Error Coefficients

Standard Error:	709000
Relative Standard Error:	5.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.210783	50.0	1396224.0	0.210783	Y
2	IC 410-311123/16	4.0	0.734039	50.0	1351563.0	0.18351	Y
3	IC 410-311123/15	10.0	1.834174	50.0	1411017.0	0.183417	Y
4	IC 410-311123/14	20.0	3.678693	50.0	1391350.0	0.183935	Y
5	ICIS 410-311123/13	50.0	9.625143	50.0	1392317.0	0.192503	Y
6	IC 410-311123/12	100.0	19.091372	50.0	1410907.0	0.190914	Y
7	IC 410-311123/11	300.0	55.612072	50.0	1460539.0	0.185374	Y



Calibration / Methyl methacrylate

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

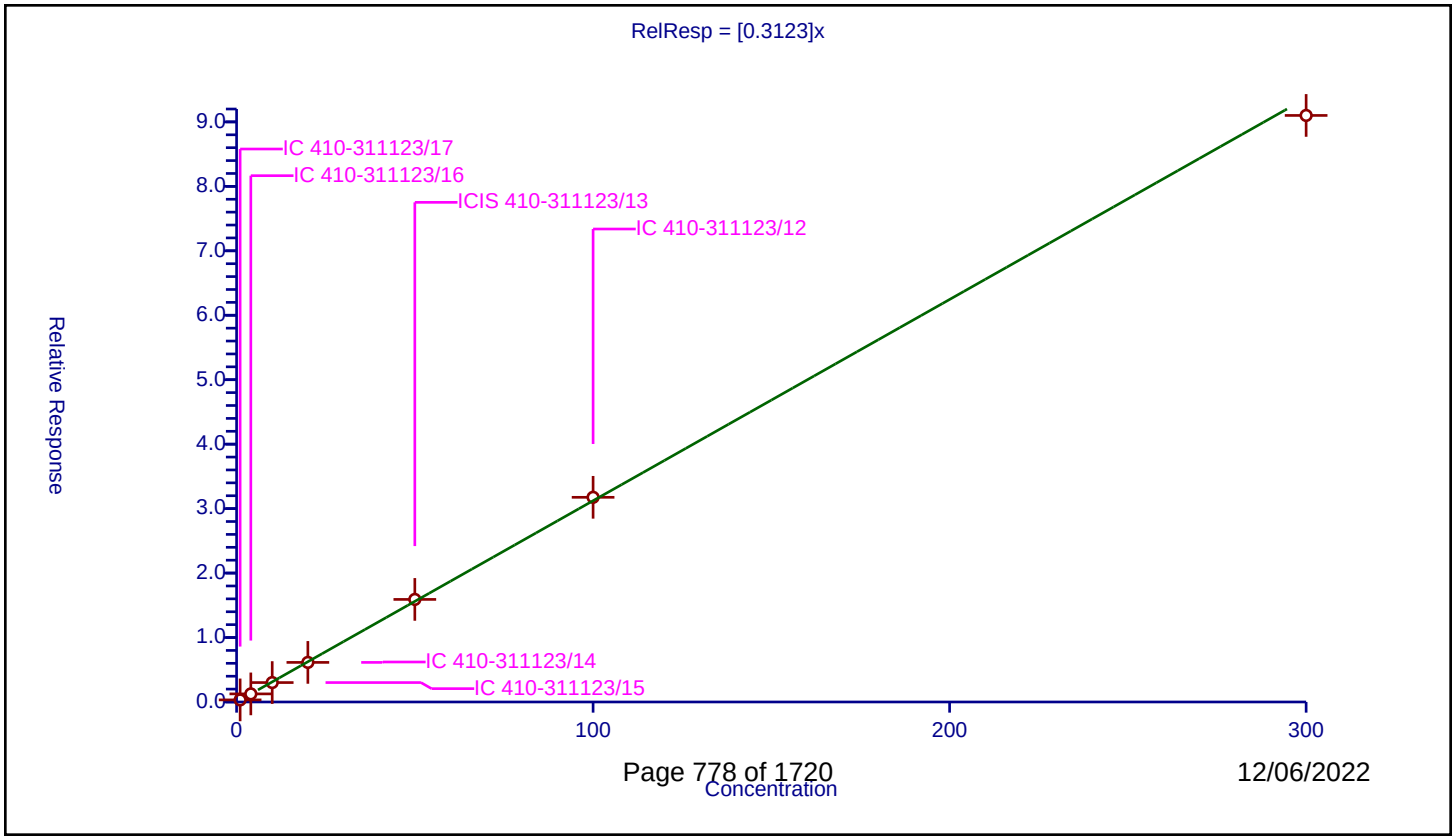
Curve Coefficients

Intercept:	0
Slope:	0.3123

Error Coefficients

Standard Error:	1160000
Relative Standard Error:	2.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.324053	50.0	1396224.0	0.324053	Y
2	IC 410-311123/16	4.0	1.256841	50.0	1351563.0	0.31421	Y
3	IC 410-311123/15	10.0	3.012969	50.0	1411017.0	0.301297	Y
4	IC 410-311123/14	20.0	6.140583	50.0	1391350.0	0.307029	Y
5	ICIS 410-311123/13	50.0	15.912504	50.0	1392317.0	0.31825	Y
6	IC 410-311123/12	100.0	31.758046	50.0	1410907.0	0.31758	Y
7	IC 410-311123/11	300.0	91.001507	50.0	1460539.0	0.303338	Y



Calibration / 1,4-Dioxane

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

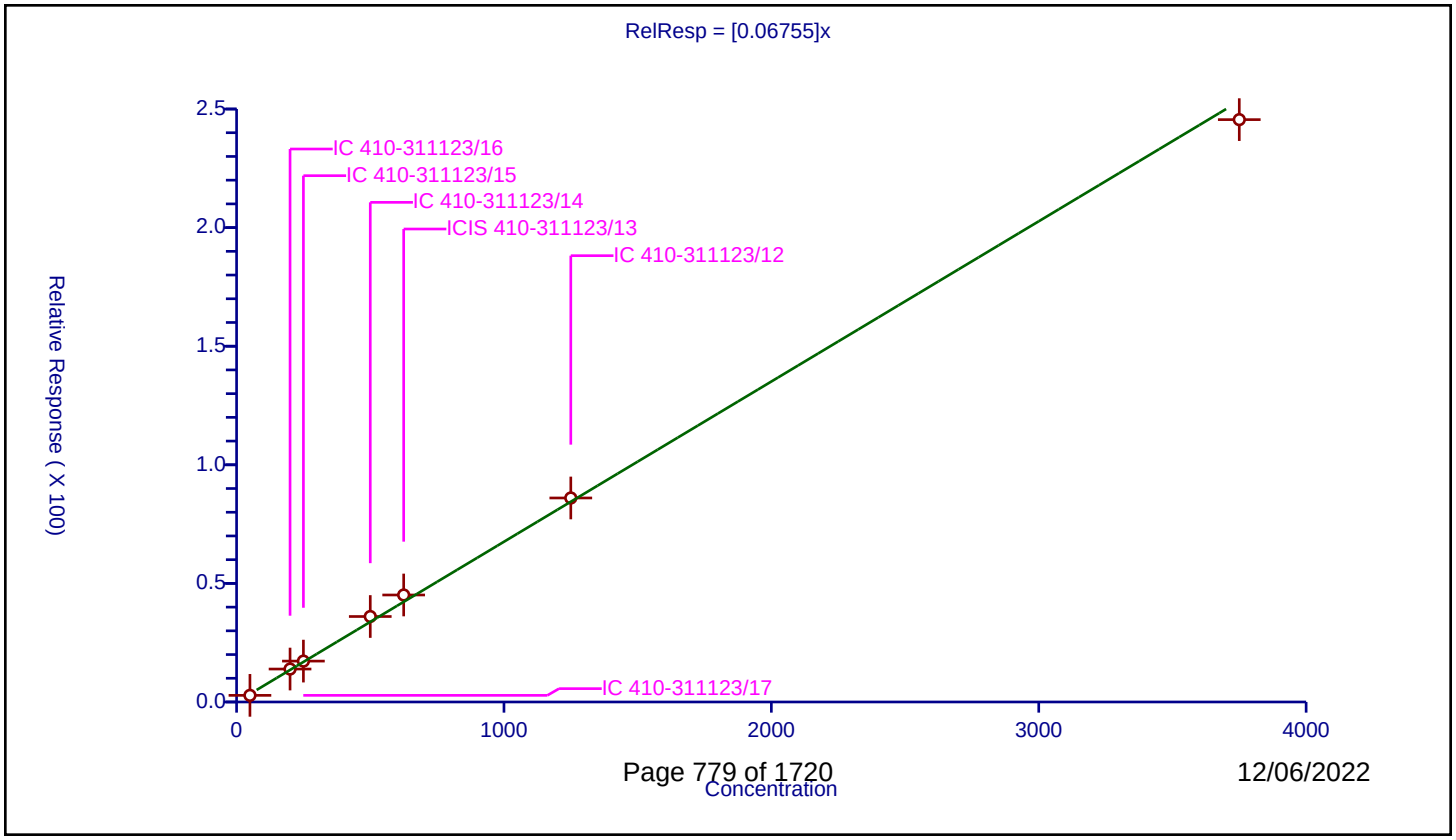
Curve Coefficients

Intercept:	0
Slope:	0.06755

Error Coefficients

Standard Error:	324000
Relative Standard Error:	8.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	50.0	2.79532	250.0	601720.0	0.055906	Y
2	IC 410-311123/16	200.0	13.893745	250.0	723545.0	0.069469	Y
3	IC 410-311123/15	250.0	17.238339	250.0	751450.0	0.068953	Y
4	IC 410-311123/14	500.0	36.043204	250.0	750620.0	0.072086	Y
5	ICIS 410-311123/13	625.0	45.106328	250.0	746464.0	0.07217	Y
6	IC 410-311123/12	1250.0	86.016173	250.0	758183.0	0.068813	Y
7	IC 410-311123/11	3750.0	245.52558	250.0	739202.0	0.065473	Y



Calibration / Dichlorobromomethane

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

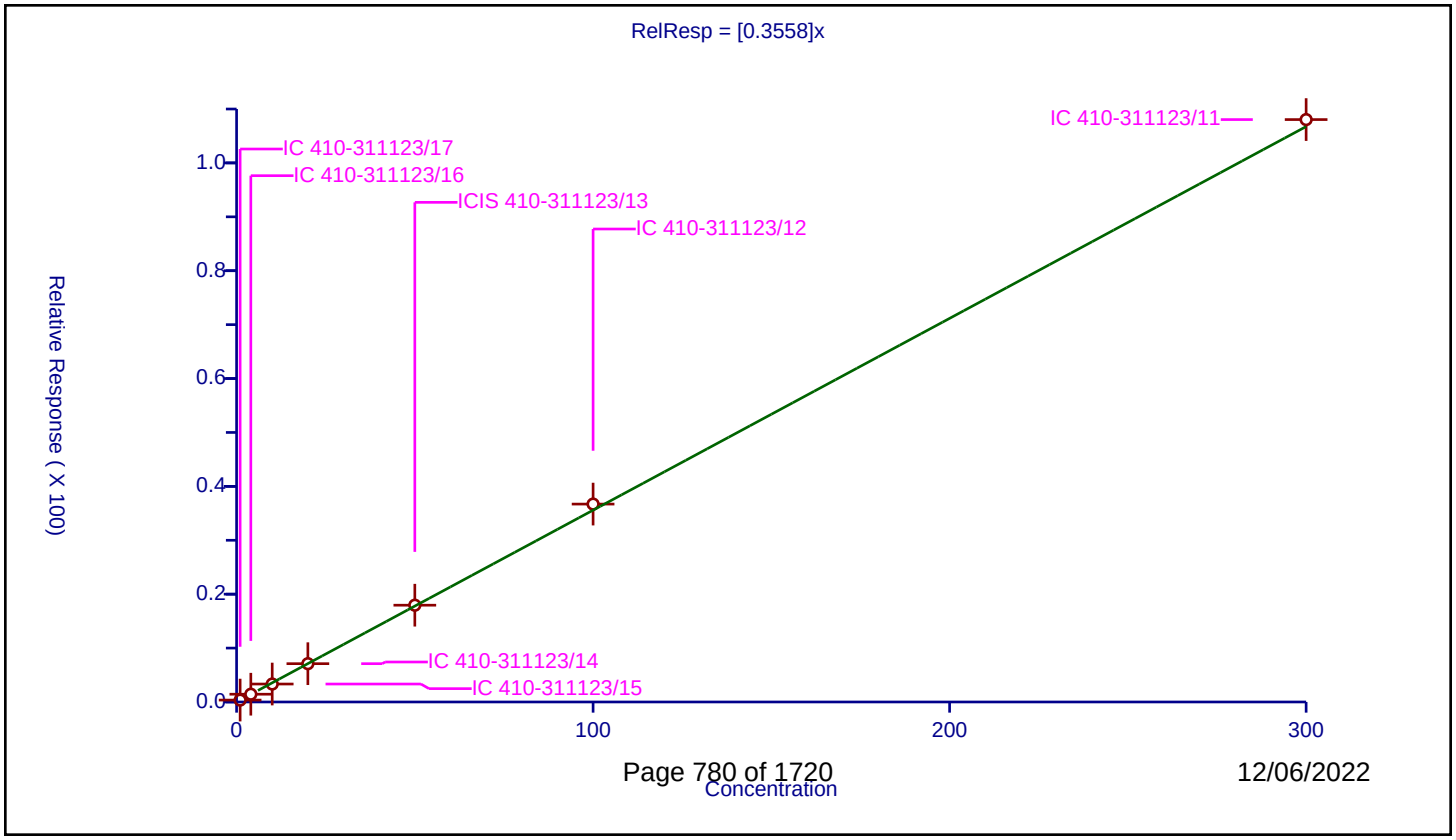
Curve Coefficients

Intercept:	0
Slope:	0.3558

Error Coefficients

Standard Error:	1370000
Relative Standard Error:	3.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.355853	50.0	1396224.0	0.355853	Y
2	IC 410-311123/16	4.0	1.439962	50.0	1351563.0	0.359991	Y
3	IC 410-311123/15	10.0	3.331356	50.0	1411017.0	0.333136	Y
4	IC 410-311123/14	20.0	7.106372	50.0	1391350.0	0.355319	Y
5	ICIS 410-311123/13	50.0	17.955537	50.0	1392317.0	0.359111	Y
6	IC 410-311123/12	100.0	36.714893	50.0	1410907.0	0.367149	Y
7	IC 410-311123/11	300.0	108.038573	50.0	1460539.0	0.360129	Y



Calibration / 2-Nitropropane

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

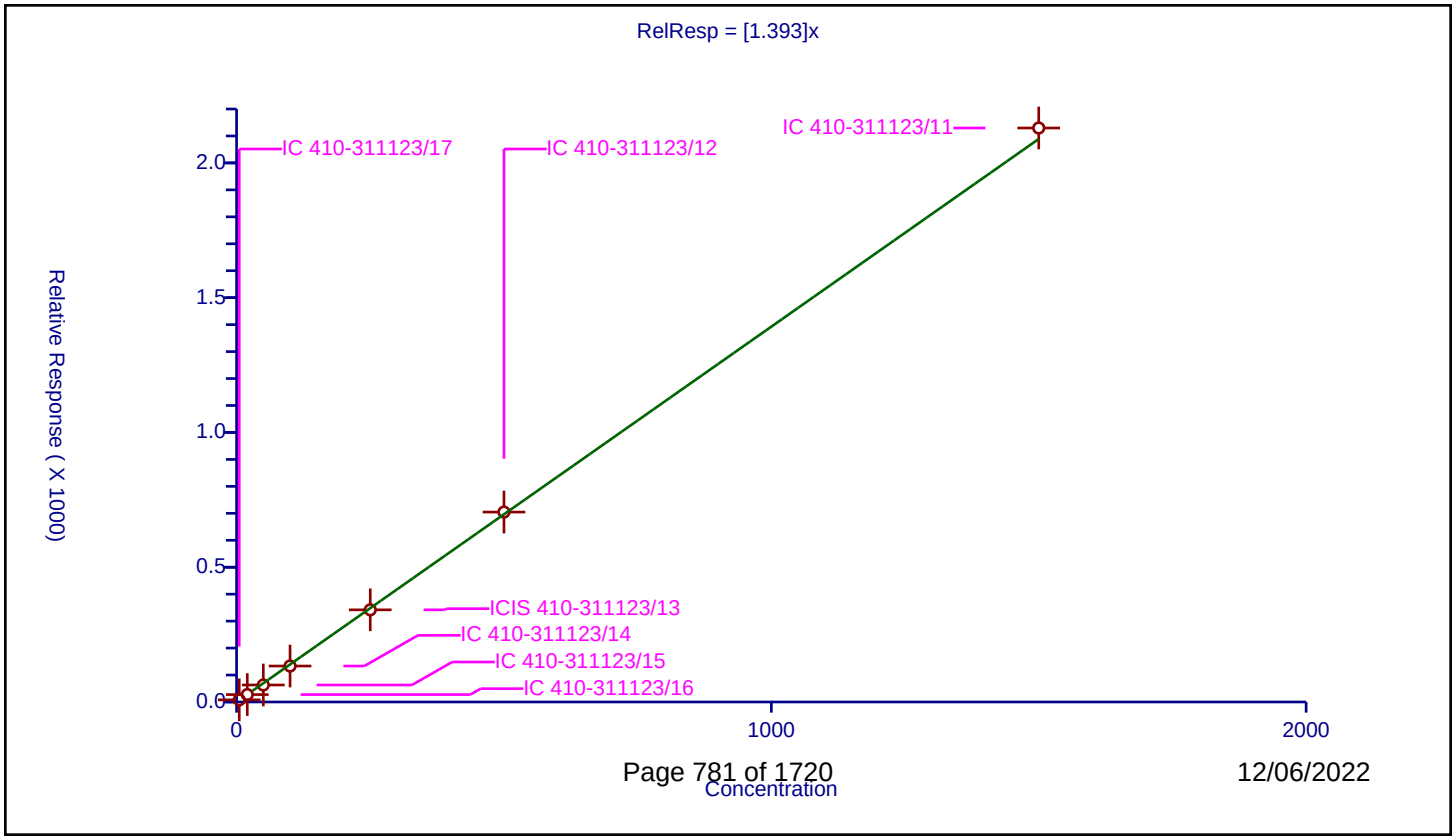
Curve Coefficients

Intercept:	0
Slope:	1.393

Error Coefficients

Standard Error:	2750000
Relative Standard Error:	7.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	5.0	7.909825	250.0	601720.0	1.581965	Y
2	IC 410-311123/16	20.0	27.497944	250.0	723545.0	1.374897	Y
3	IC 410-311123/15	50.0	63.042451	250.0	751450.0	1.260849	Y
4	IC 410-311123/14	100.0	133.3874	250.0	750620.0	1.333874	Y
5	ICIS 410-311123/13	250.0	341.845688	250.0	746464.0	1.367383	Y
6	IC 410-311123/12	500.0	704.629357	250.0	758183.0	1.409259	Y
7	IC 410-311123/11	1500.0	2129.57588	250.0	739202.0	1.419717	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

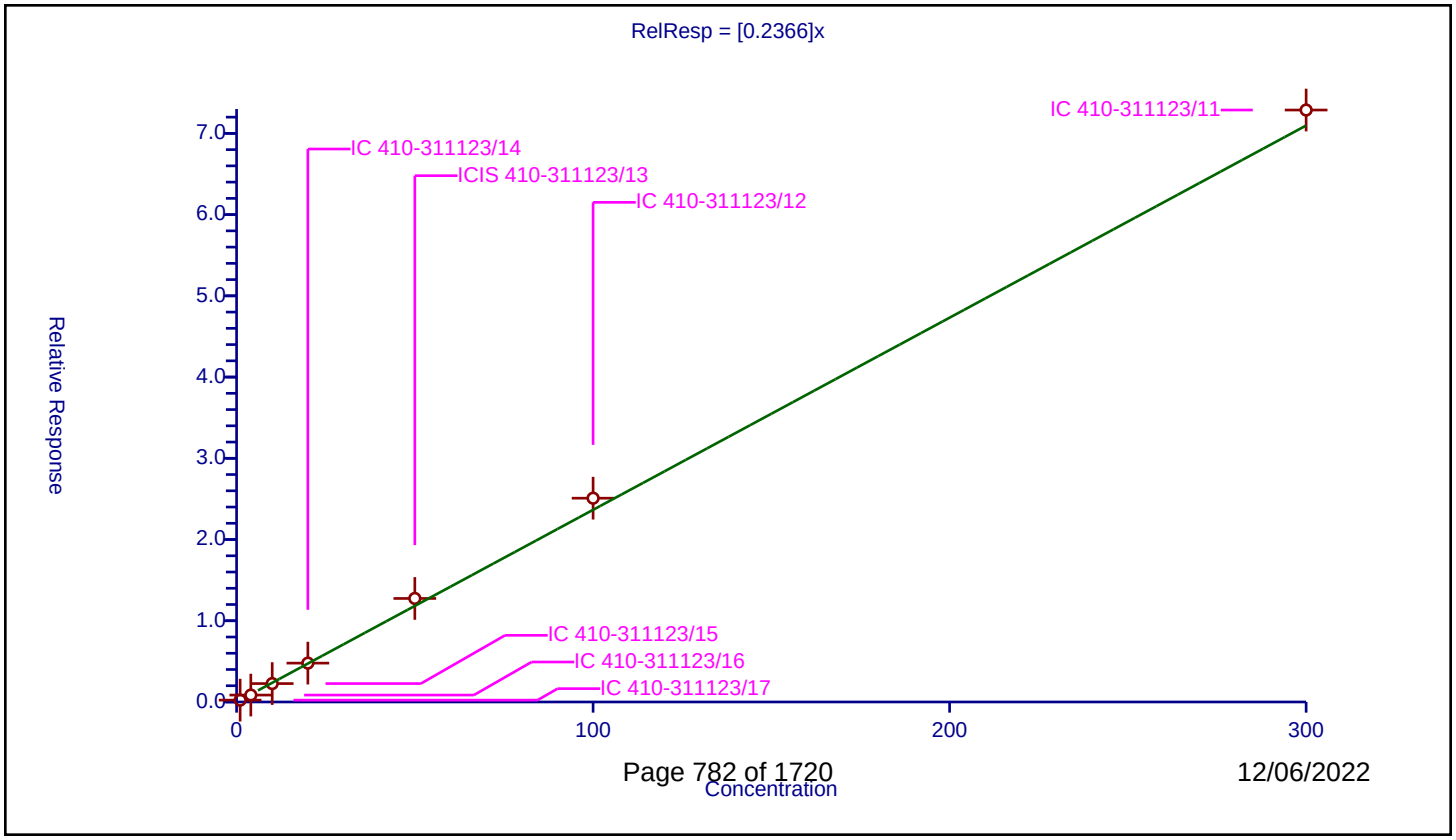
Curve Coefficients

Intercept:	0
Slope:	0.2366

Error Coefficients

Standard Error:	929000
Relative Standard Error:	6.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.228366	50.0	1396224.0	0.228366	Y
2	IC 410-311123/16	4.0	0.851422	50.0	1351563.0	0.212855	Y
3	IC 410-311123/15	10.0	2.266663	50.0	1411017.0	0.226666	Y
4	IC 410-311123/14	20.0	4.784921	50.0	1391350.0	0.239246	Y
5	ICIS 410-311123/13	50.0	12.747241	50.0	1392317.0	0.254945	Y
6	IC 410-311123/12	100.0	25.09074	50.0	1410907.0	0.250907	Y
7	IC 410-311123/11	300.0	72.873953	50.0	1460539.0	0.242913	Y



Calibration / cis-1,3-Dichloropropene

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

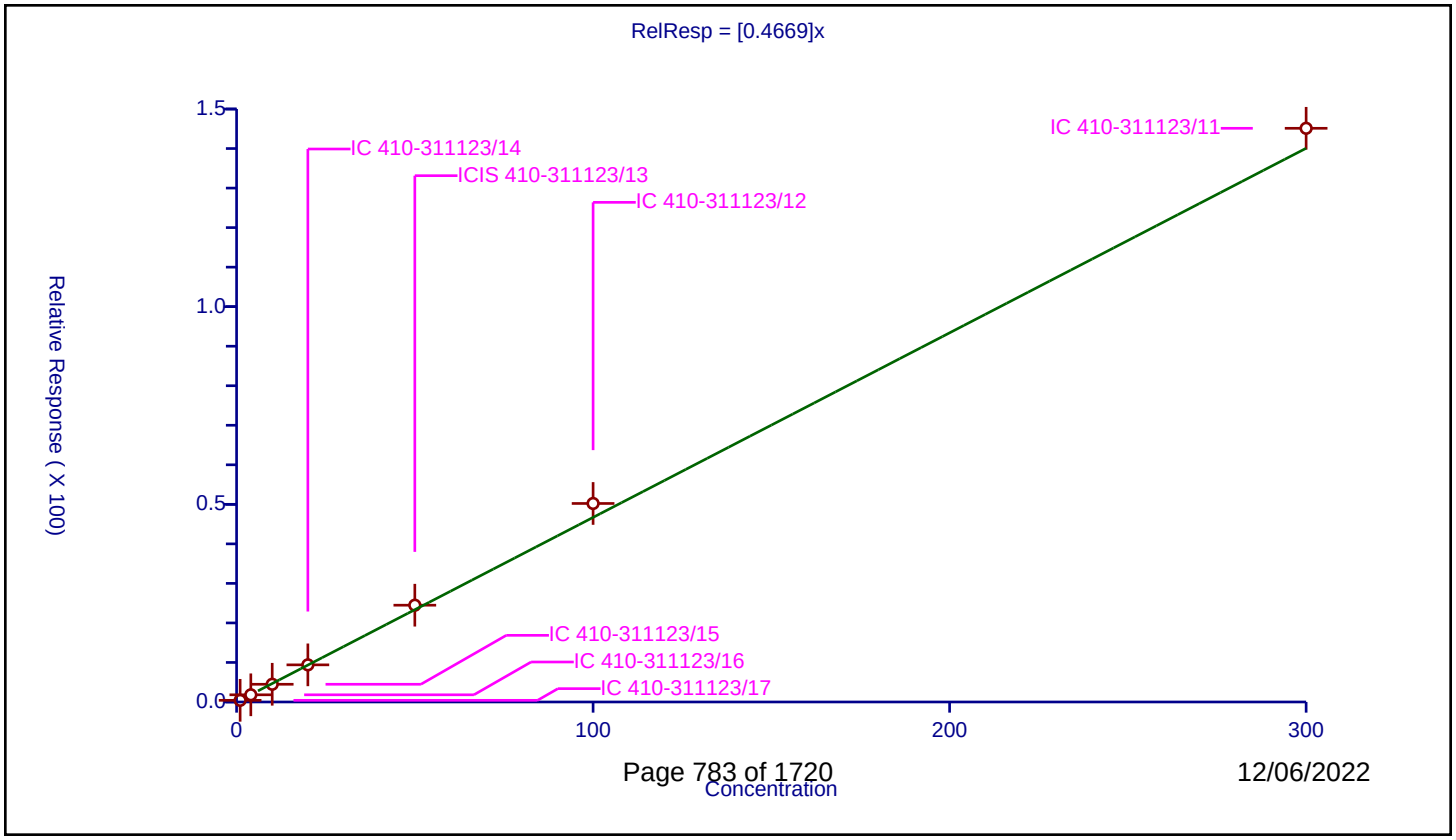
Curve Coefficients

Intercept:	0
Slope:	0.4669

Error Coefficients

Standard Error:	1850000
Relative Standard Error:	6.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.420993	50.0	1396224.0	0.420993	Y
2	IC 410-311123/16	4.0	1.816785	50.0	1351563.0	0.454196	Y
3	IC 410-311123/15	10.0	4.480669	50.0	1411017.0	0.448067	Y
4	IC 410-311123/14	20.0	9.390628	50.0	1391350.0	0.469531	Y
5	ICIS 410-311123/13	50.0	24.482571	50.0	1392317.0	0.489651	Y
6	IC 410-311123/12	100.0	50.217201	50.0	1410907.0	0.502172	Y
7	IC 410-311123/11	300.0	145.122246	50.0	1460539.0	0.483741	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

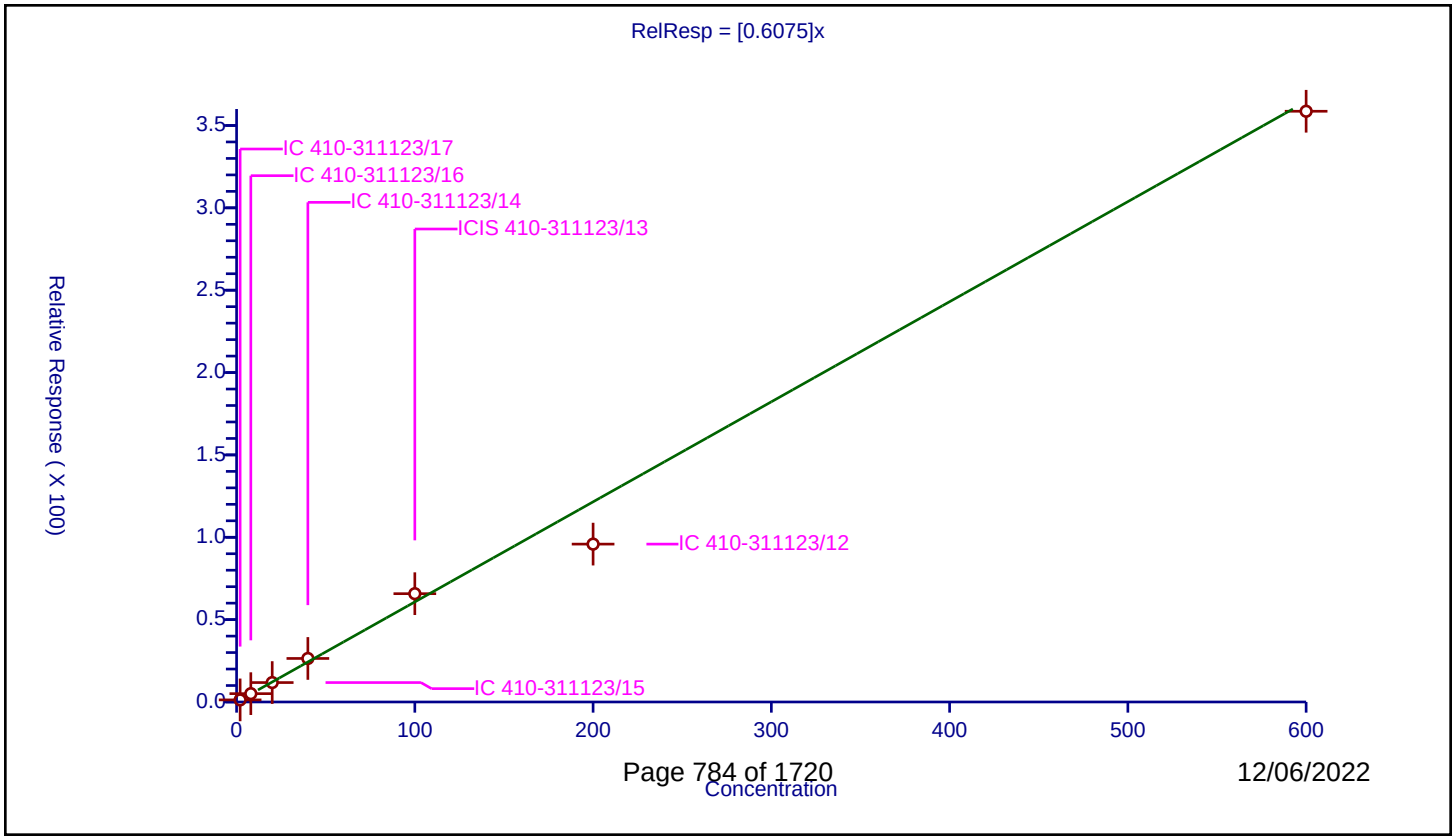
Curve Coefficients

Intercept:	0
Slope:	0.6075

Error Coefficients

Standard Error:	4490000
Relative Standard Error:	10.3
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	2.0	1.272217	50.0	1396224.0	0.636109	Y
2	IC 410-311123/16	8.0	5.0513	50.0	1351563.0	0.631412	Y
3	IC 410-311123/15	20.0	11.799929	50.0	1411017.0	0.589996	Y
4	IC 410-311123/14	40.0	26.421317	50.0	1391350.0	0.660533	Y
5	ICIS 410-311123/13	100.0	65.761245	50.0	1392317.0	0.657612	Y
6	IC 410-311123/12	200.0	95.847636	50.0	1410907.0	0.479238	Y
7	IC 410-311123/11	600.0	358.646397	50.0	1460539.0	0.597744	Y



Calibration / Toluene-d8 (Surr)

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

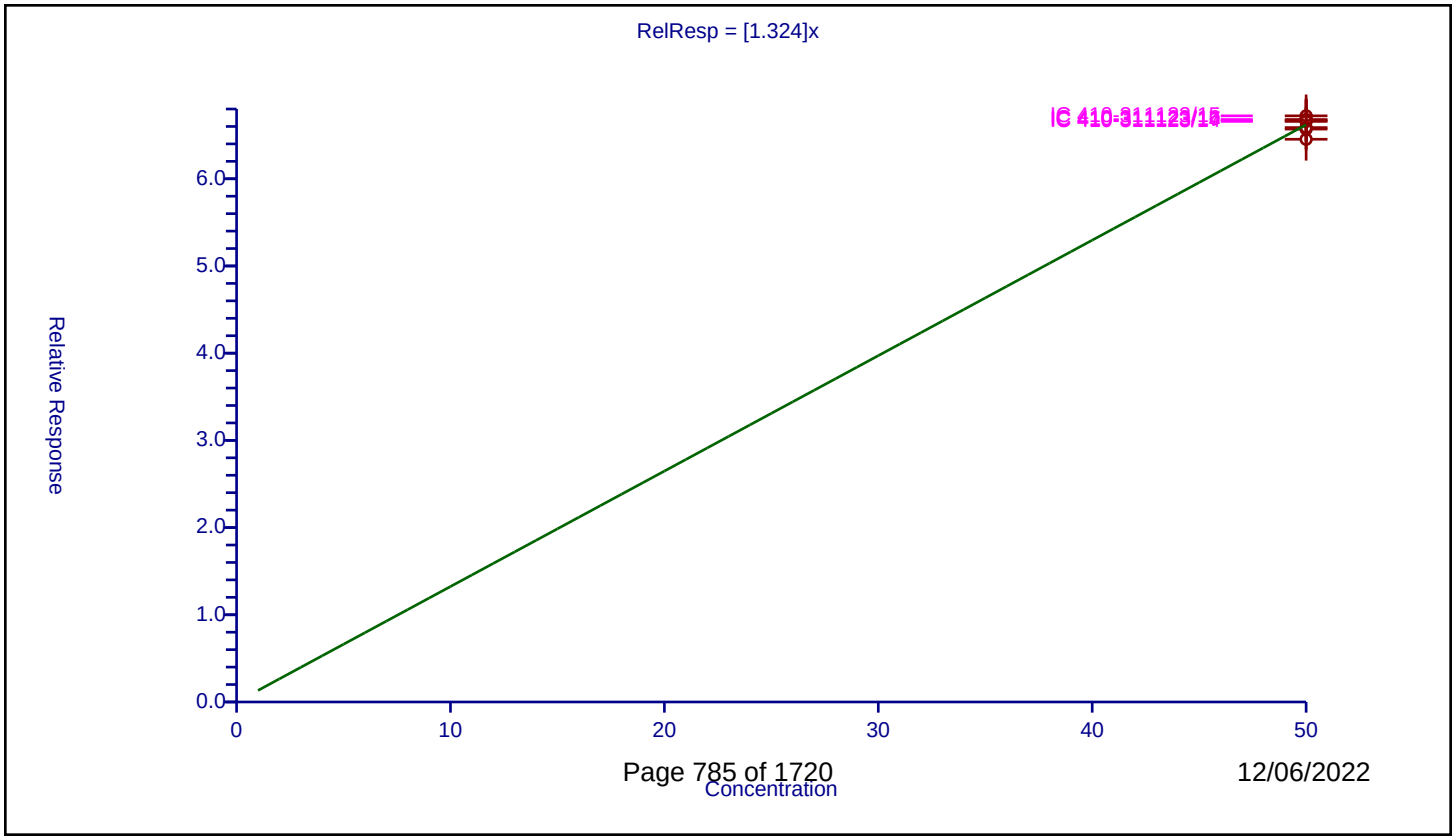
Curve Coefficients

Intercept:	0
Slope:	1.324

Error Coefficients

Standard Error:	1520000
Relative Standard Error:	1.4
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/11	50.0	64.531719	50.0	1164900.0	1.290634	Y
2	IC 410-311123/12	50.0	65.697571	50.0	1109987.0	1.313951	Y
3	ICIS 410-311123/13	50.0	65.871094	50.0	1069167.0	1.317422	Y
4	IC 410-311123/14	50.0	66.577081	50.0	1041836.0	1.331542	Y
5	IC 410-311123/15	50.0	67.216365	50.0	1047605.0	1.344327	Y
6	IC 410-311123/16	50.0	66.794855	50.0	997359.0	1.335897	Y
7	IC 410-311123/17	50.0	66.678416	50.0	1014254.0	1.333568	Y



Calibration / Toluene

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

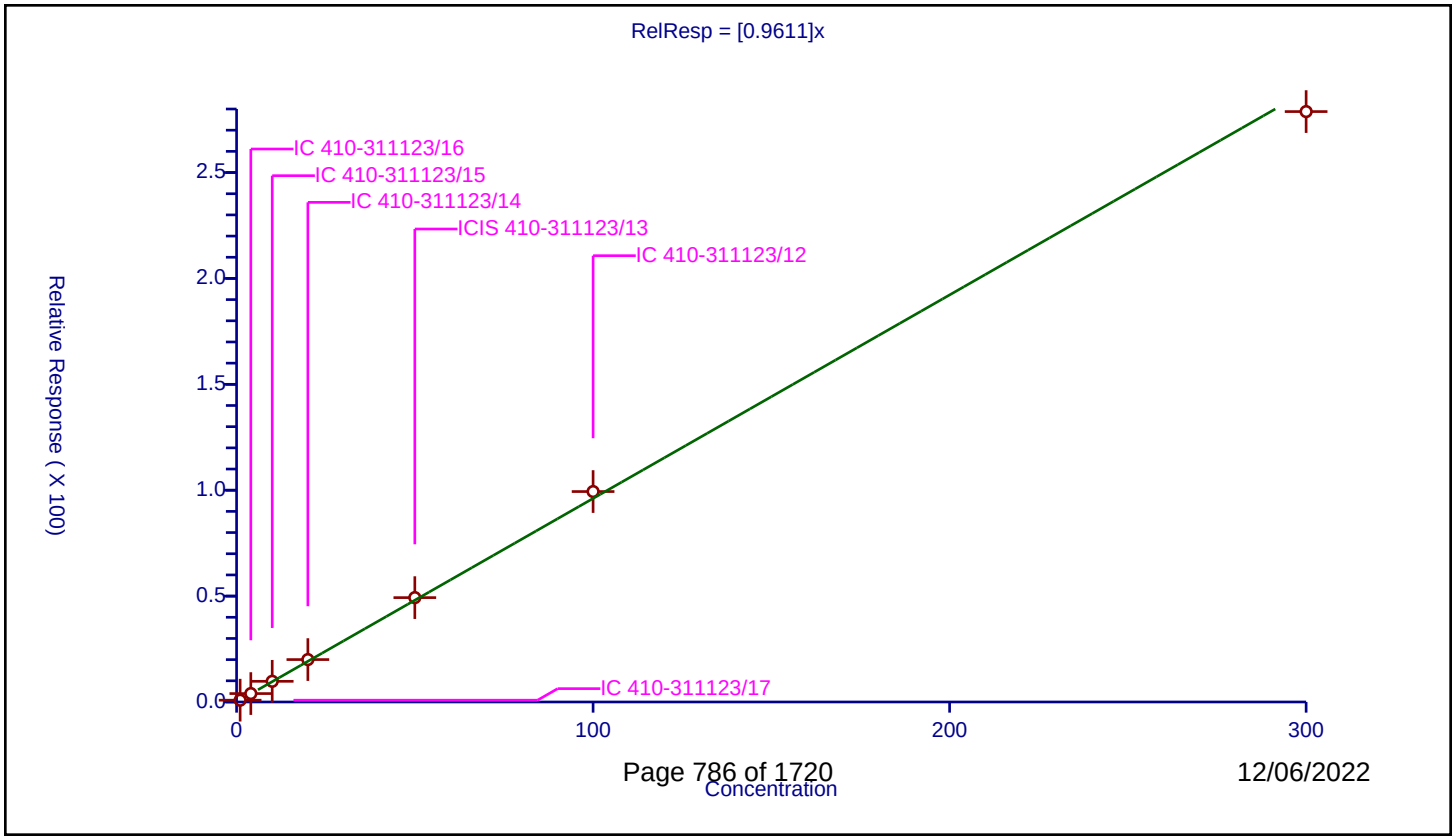
Curve Coefficients

Intercept:	0
Slope:	0.9611

Error Coefficients

Standard Error:	2840000
Relative Standard Error:	5.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.850182	50.0	1014254.0	0.850182	Y
2	IC 410-311123/16	4.0	3.967428	50.0	997359.0	0.991857	Y
3	IC 410-311123/15	10.0	9.759738	50.0	1047605.0	0.975974	Y
4	IC 410-311123/14	20.0	20.021241	50.0	1041836.0	1.001062	Y
5	ICIS 410-311123/13	50.0	49.27364	50.0	1069167.0	0.985473	Y
6	IC 410-311123/12	100.0	99.368821	50.0	1109987.0	0.993688	Y
7	IC 410-311123/11	300.0	278.791184	50.0	1164900.0	0.929304	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

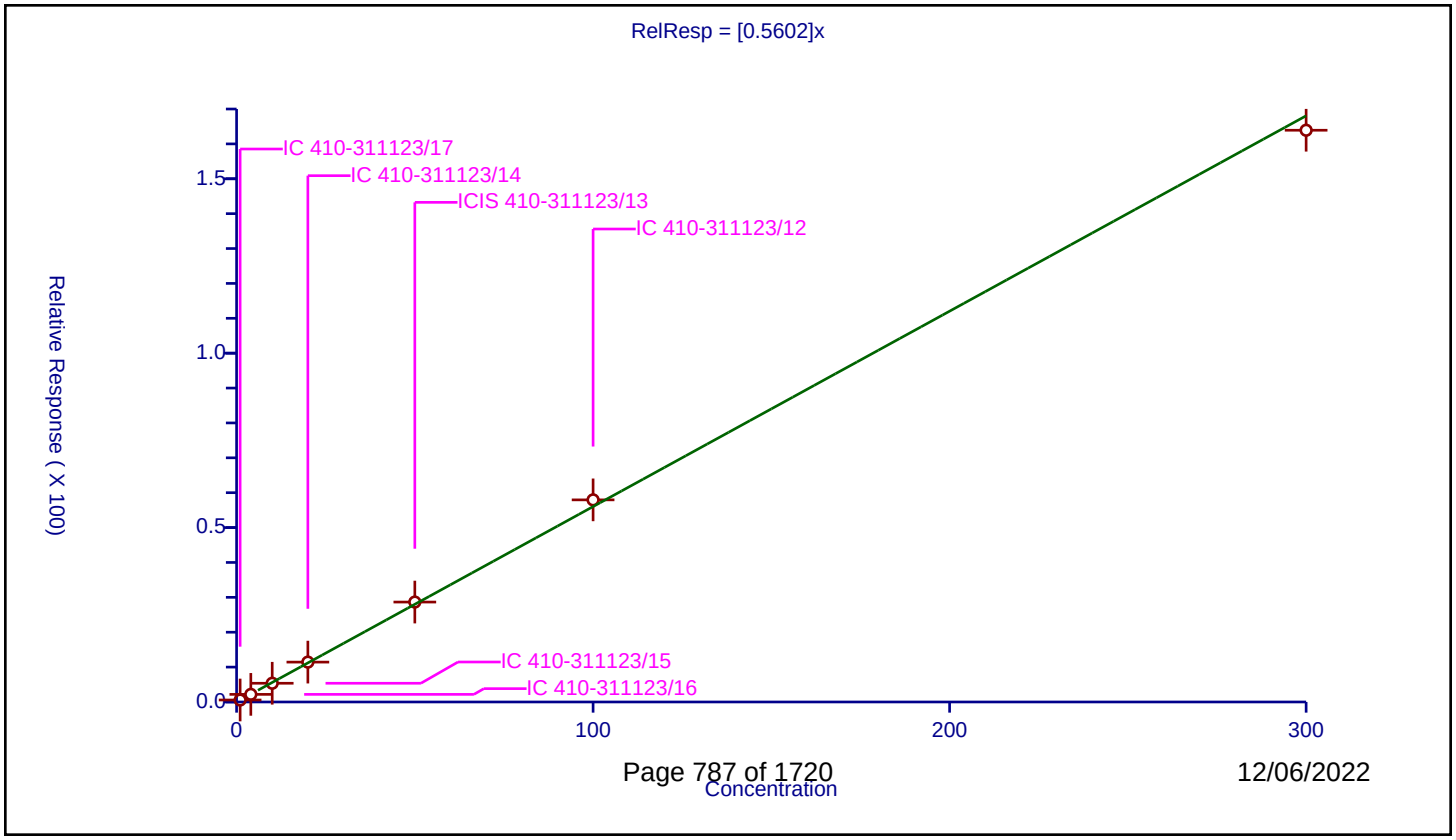
Curve Coefficients

Intercept:	0
Slope:	0.5602

Error Coefficients

Standard Error:	1670000
Relative Standard Error:	3.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.568645	50.0	1014254.0	0.568645	Y
2	IC 410-311123/16	4.0	2.182013	50.0	997359.0	0.545503	Y
3	IC 410-311123/15	10.0	5.367958	50.0	1047605.0	0.536796	Y
4	IC 410-311123/14	20.0	11.431598	50.0	1041836.0	0.57158	Y
5	ICIS 410-311123/13	50.0	28.651885	50.0	1069167.0	0.573038	Y
6	IC 410-311123/12	100.0	57.943066	50.0	1109987.0	0.579431	Y
7	IC 410-311123/11	300.0	163.911409	50.0	1164900.0	0.546371	Y



Calibration / Ethyl methacrylate

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

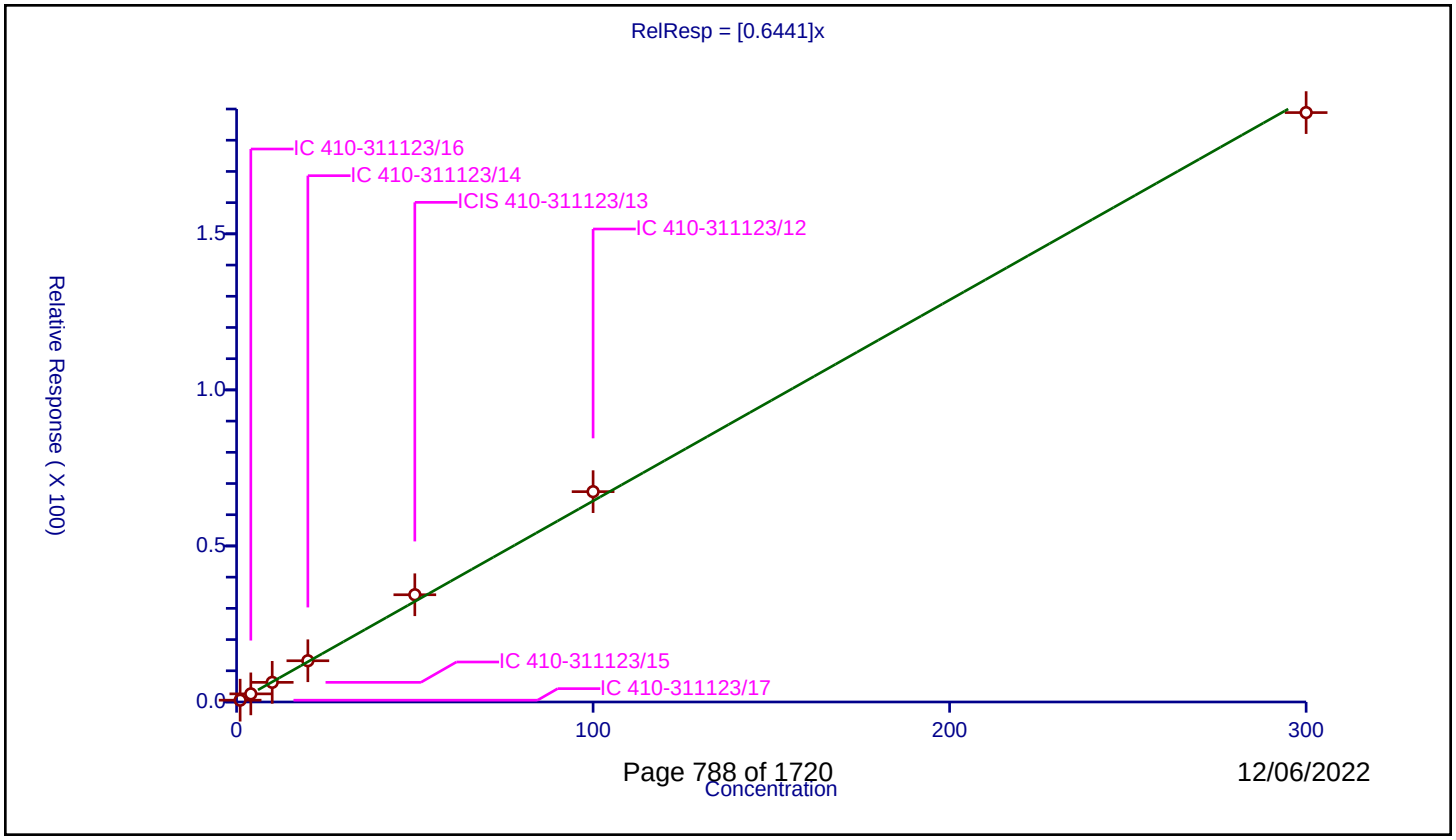
Curve Coefficients

Intercept:	0
Slope:	0.6441

Error Coefficients

Standard Error:	1920000
Relative Standard Error:	5.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.578356	50.0	1014254.0	0.578356	Y
2	IC 410-311123/16	4.0	2.598813	50.0	997359.0	0.649703	Y
3	IC 410-311123/15	10.0	6.293975	50.0	1047605.0	0.629398	Y
4	IC 410-311123/14	20.0	13.212732	50.0	1041836.0	0.660637	Y
5	ICIS 410-311123/13	50.0	34.363013	50.0	1069167.0	0.68726	Y
6	IC 410-311123/12	100.0	67.397276	50.0	1109987.0	0.673973	Y
7	IC 410-311123/11	300.0	188.855095	50.0	1164900.0	0.629517	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

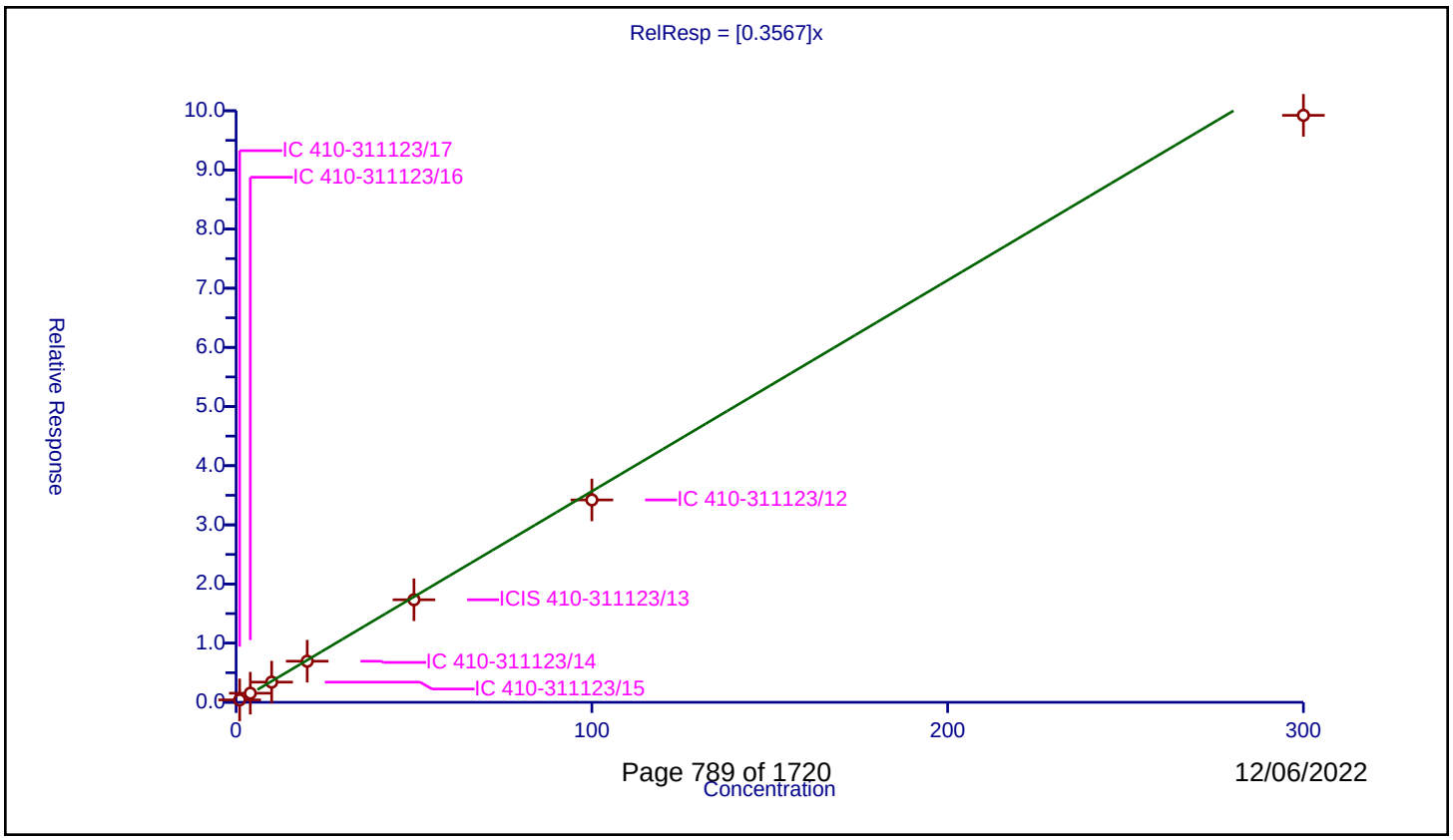
Curve Coefficients

Intercept:	0
Slope:	0.3567

Error Coefficients

Standard Error:	1010000
Relative Standard Error:	7.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.405175	50.0	1014254.0	0.405175	Y
2	IC 410-311123/16	4.0	1.536157	50.0	997359.0	0.384039	Y
3	IC 410-311123/15	10.0	3.408823	50.0	1047605.0	0.340882	Y
4	IC 410-311123/14	20.0	6.943847	50.0	1041836.0	0.347192	Y
5	ICIS 410-311123/13	50.0	17.338638	50.0	1069167.0	0.346773	Y
6	IC 410-311123/12	100.0	34.213058	50.0	1109987.0	0.342131	Y
7	IC 410-311123/11	300.0	99.224654	50.0	1164900.0	0.330749	Y



Calibration / Tetrachloroethene

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

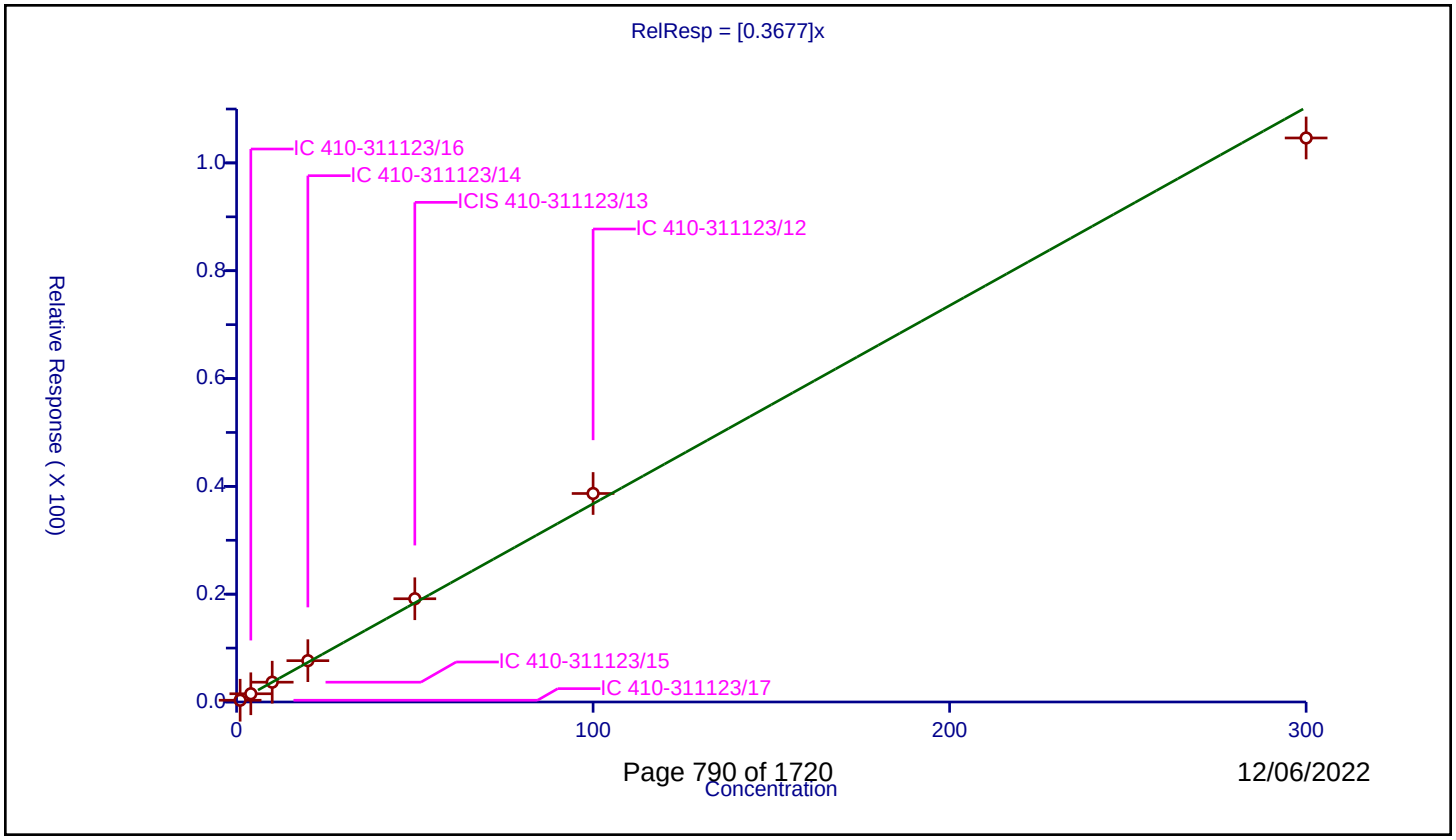
Curve Coefficients

Intercept:	0
Slope:	0.3677

Error Coefficients

Standard Error:	1070000
Relative Standard Error:	6.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.323193	50.0	1014254.0	0.323193	Y
2	IC 410-311123/16	4.0	1.526481	50.0	997359.0	0.38162	Y
3	IC 410-311123/15	10.0	3.673236	50.0	1047605.0	0.367324	Y
4	IC 410-311123/14	20.0	7.662962	50.0	1041836.0	0.383148	Y
5	ICIS 410-311123/13	50.0	19.149534	50.0	1069167.0	0.382991	Y
6	IC 410-311123/12	100.0	38.678381	50.0	1109987.0	0.386784	Y
7	IC 410-311123/11	300.0	104.629625	50.0	1164900.0	0.348765	Y



Calibration / 1,3-Dichloropropane

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

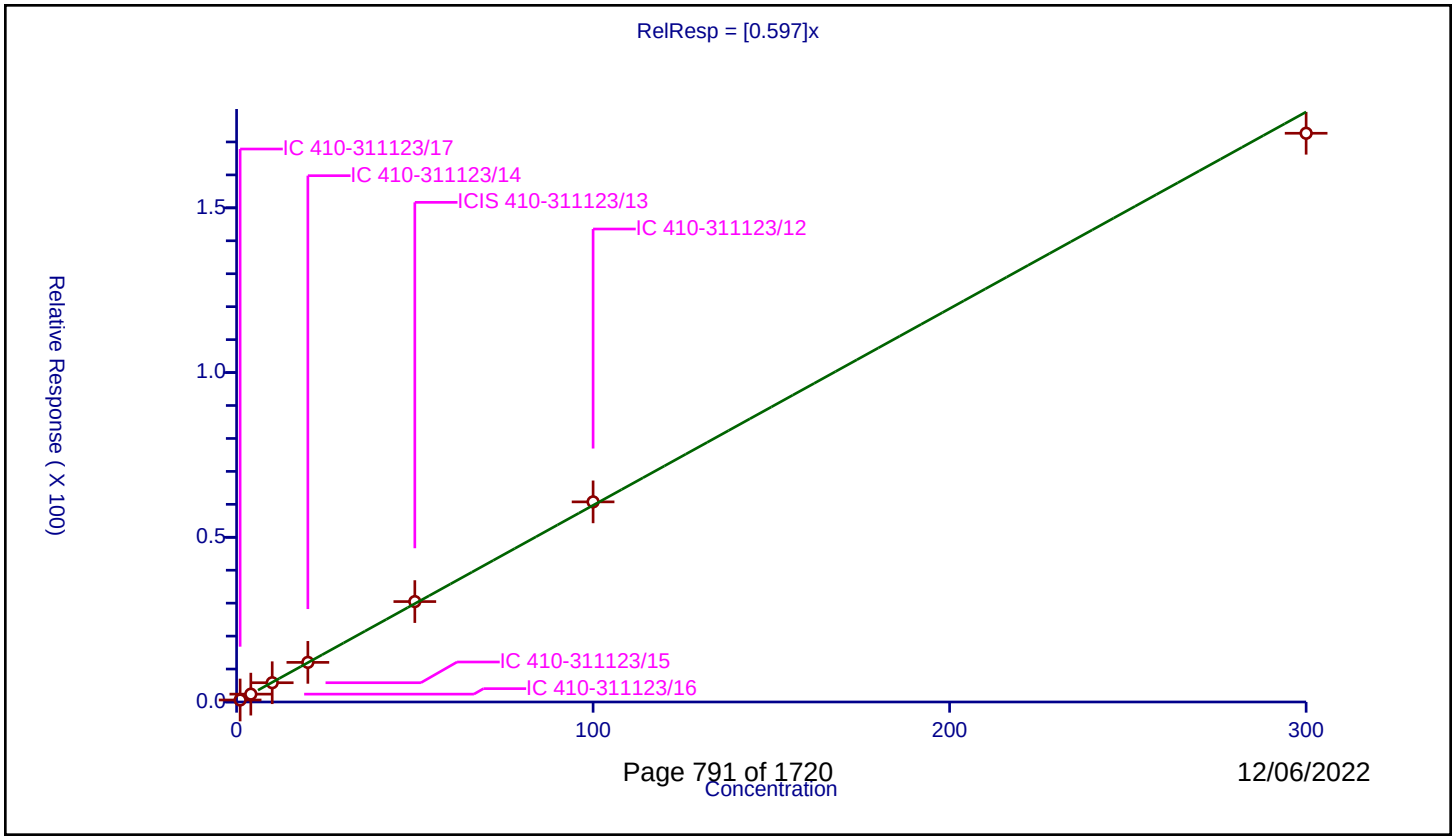
Curve Coefficients

Intercept:	0
Slope:	0.597

Error Coefficients

Standard Error:	1760000
Relative Standard Error:	2.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.604779	50.0	1014254.0	0.604779	Y
2	IC 410-311123/16	4.0	2.384347	50.0	997359.0	0.596087	Y
3	IC 410-311123/15	10.0	5.848626	50.0	1047605.0	0.584863	Y
4	IC 410-311123/14	20.0	12.02267	50.0	1041836.0	0.601133	Y
5	ICIS 410-311123/13	50.0	30.477418	50.0	1069167.0	0.609548	Y
6	IC 410-311123/12	100.0	60.746387	50.0	1109987.0	0.607464	Y
7	IC 410-311123/11	300.0	172.64057	50.0	1164900.0	0.575469	Y



Calibration / 2-Hexanone

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

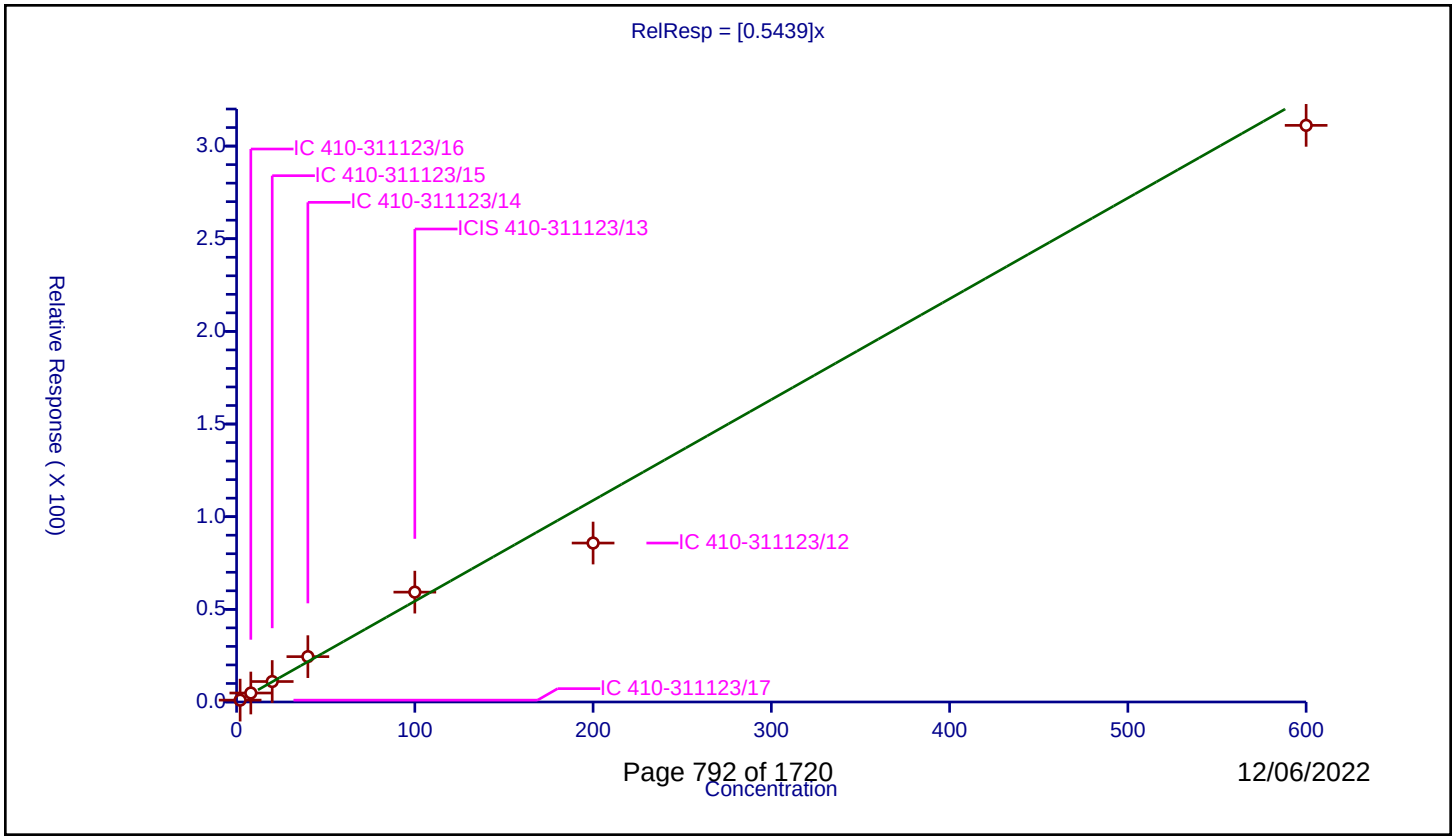
Curve Coefficients

Intercept:	0
Slope:	0.5439

Error Coefficients

Standard Error:	3110000
Relative Standard Error:	12.3
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	2.0	0.995214	50.0	1014254.0	0.497607	Y
2	IC 410-311123/16	8.0	4.843642	50.0	997359.0	0.605455	Y
3	IC 410-311123/15	20.0	11.045384	50.0	1047605.0	0.552269	Y
4	IC 410-311123/14	40.0	24.474293	50.0	1041836.0	0.611857	Y
5	ICIS 410-311123/13	100.0	59.284658	50.0	1069167.0	0.592847	Y
6	IC 410-311123/12	200.0	85.78087	50.0	1109987.0	0.428904	Y
7	IC 410-311123/11	600.0	311.178341	50.0	1164900.0	0.518631	Y



Calibration / Chlorodibromomethane

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

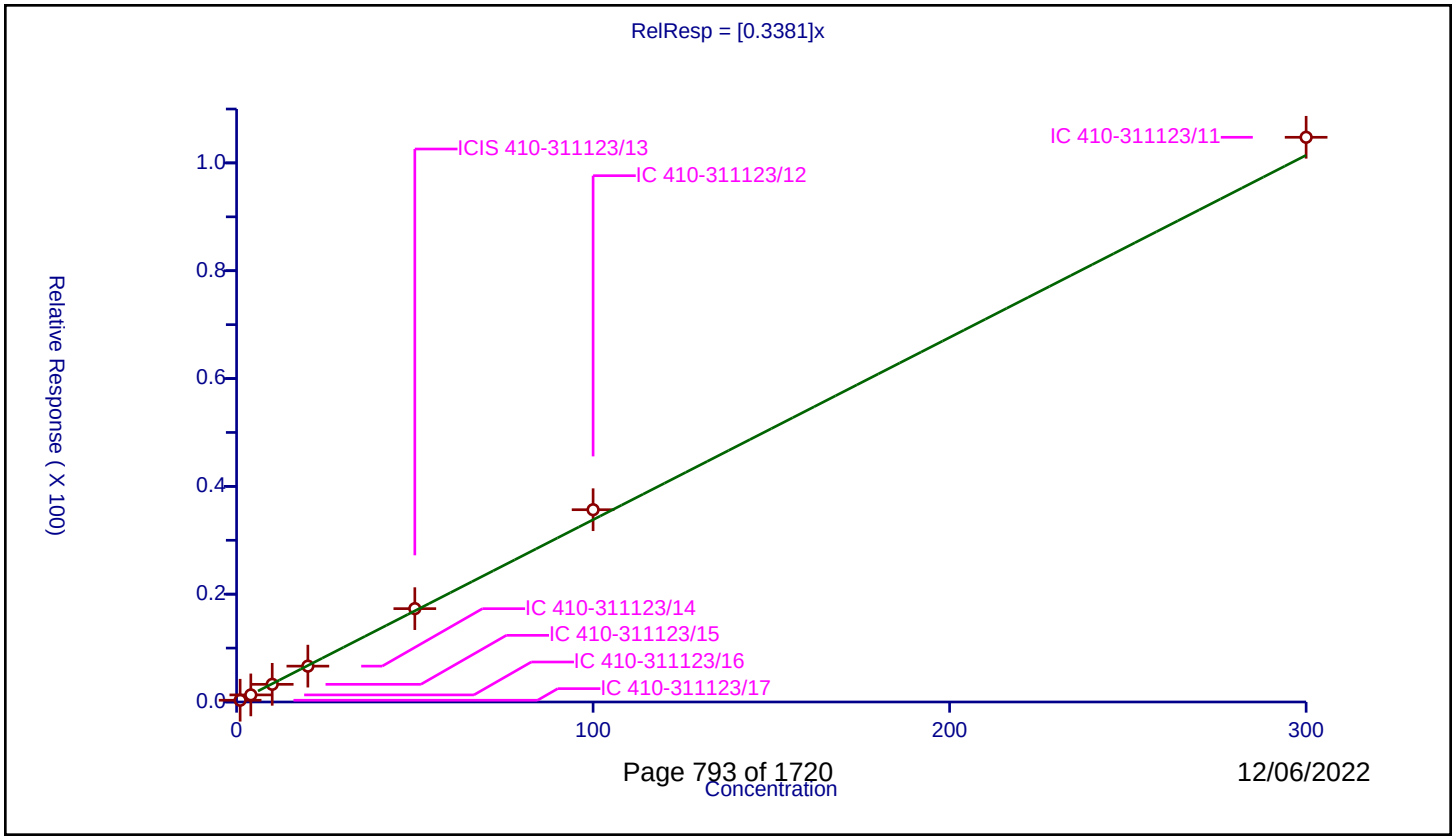
Curve Coefficients

Intercept:	0
Slope:	0.3381

Error Coefficients

Standard Error:	1060000
Relative Standard Error:	3.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.325806	50.0	1014254.0	0.325806	Y
2	IC 410-311123/16	4.0	1.31402	50.0	997359.0	0.328505	Y
3	IC 410-311123/15	10.0	3.276808	50.0	1047605.0	0.327681	Y
4	IC 410-311123/14	20.0	6.649751	50.0	1041836.0	0.332488	Y
5	ICIS 410-311123/13	50.0	17.315583	50.0	1069167.0	0.346312	Y
6	IC 410-311123/12	100.0	35.666544	50.0	1109987.0	0.356665	Y
7	IC 410-311123/11	300.0	104.756245	50.0	1164900.0	0.349187	Y



Calibration / Ethylene Dibromide

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

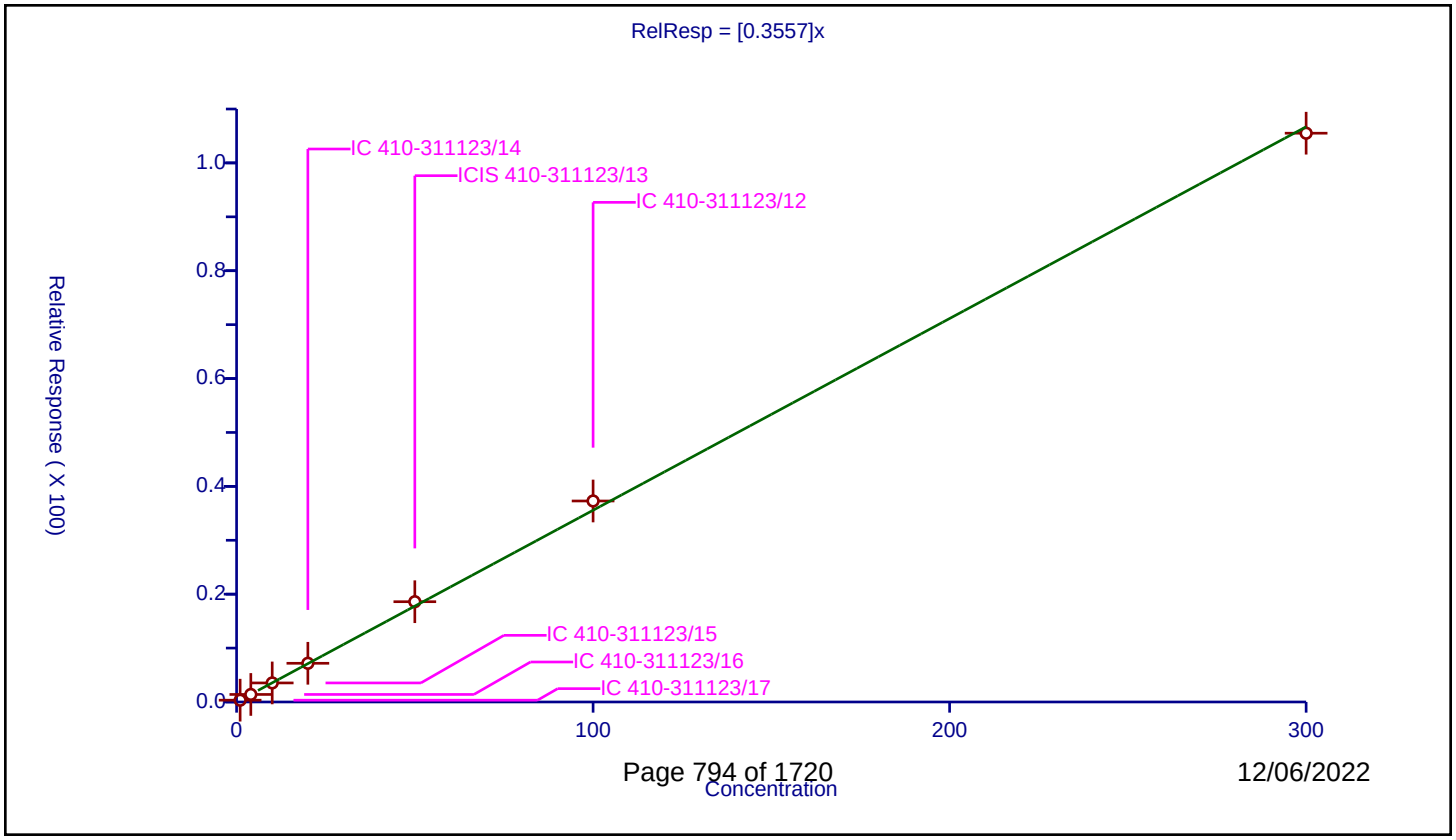
Curve Coefficients

Intercept:	0
Slope:	0.3557

Error Coefficients

Standard Error:	1070000
Relative Standard Error:	4.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.331475	50.0	1014254.0	0.331475	Y
2	IC 410-311123/16	4.0	1.39724	50.0	997359.0	0.34931	Y
3	IC 410-311123/15	10.0	3.533106	50.0	1047605.0	0.353311	Y
4	IC 410-311123/14	20.0	7.180785	50.0	1041836.0	0.359039	Y
5	ICIS 410-311123/13	50.0	18.600649	50.0	1069167.0	0.372013	Y
6	IC 410-311123/12	100.0	37.28868	50.0	1109987.0	0.372887	Y
7	IC 410-311123/11	300.0	105.512619	50.0	1164900.0	0.351709	Y



Calibration / 1-Chlorohexane

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

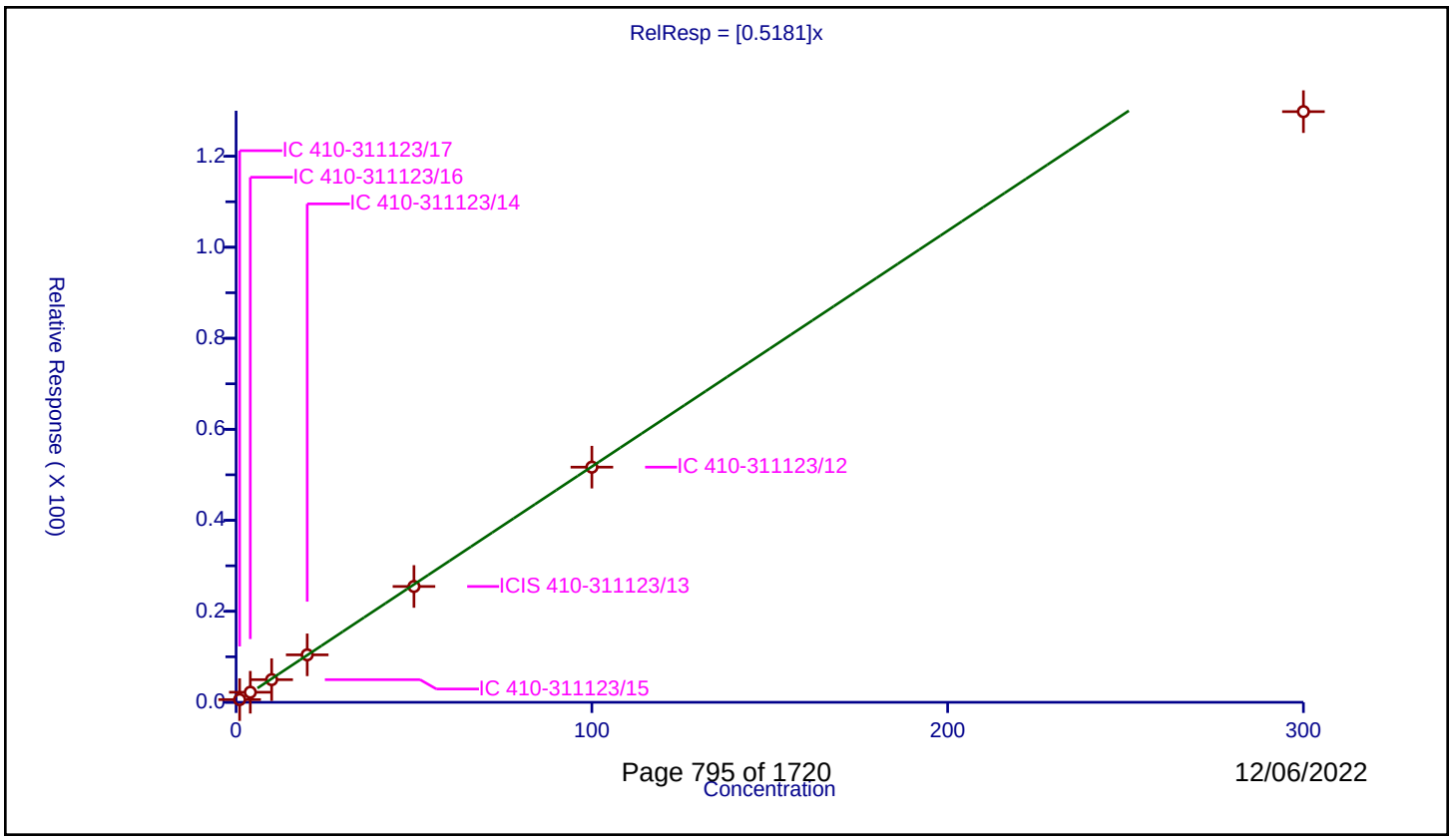
Curve Coefficients

Intercept:	0
Slope:	0.5181

Error Coefficients

Standard Error:	1340000
Relative Standard Error:	9.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.59561	50.0	1014254.0	0.59561	Y
2	IC 410-311123/16	4.0	2.211892	50.0	997359.0	0.552973	Y
3	IC 410-311123/15	10.0	4.977019	50.0	1047605.0	0.497702	Y
4	IC 410-311123/14	20.0	10.433504	50.0	1041836.0	0.521675	Y
5	ICIS 410-311123/13	50.0	25.455051	50.0	1069167.0	0.509101	Y
6	IC 410-311123/12	100.0	51.675425	50.0	1109987.0	0.516754	Y
7	IC 410-311123/11	300.0	129.805391	50.0	1164900.0	0.432685	Y



Calibration / Chlorobenzene

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

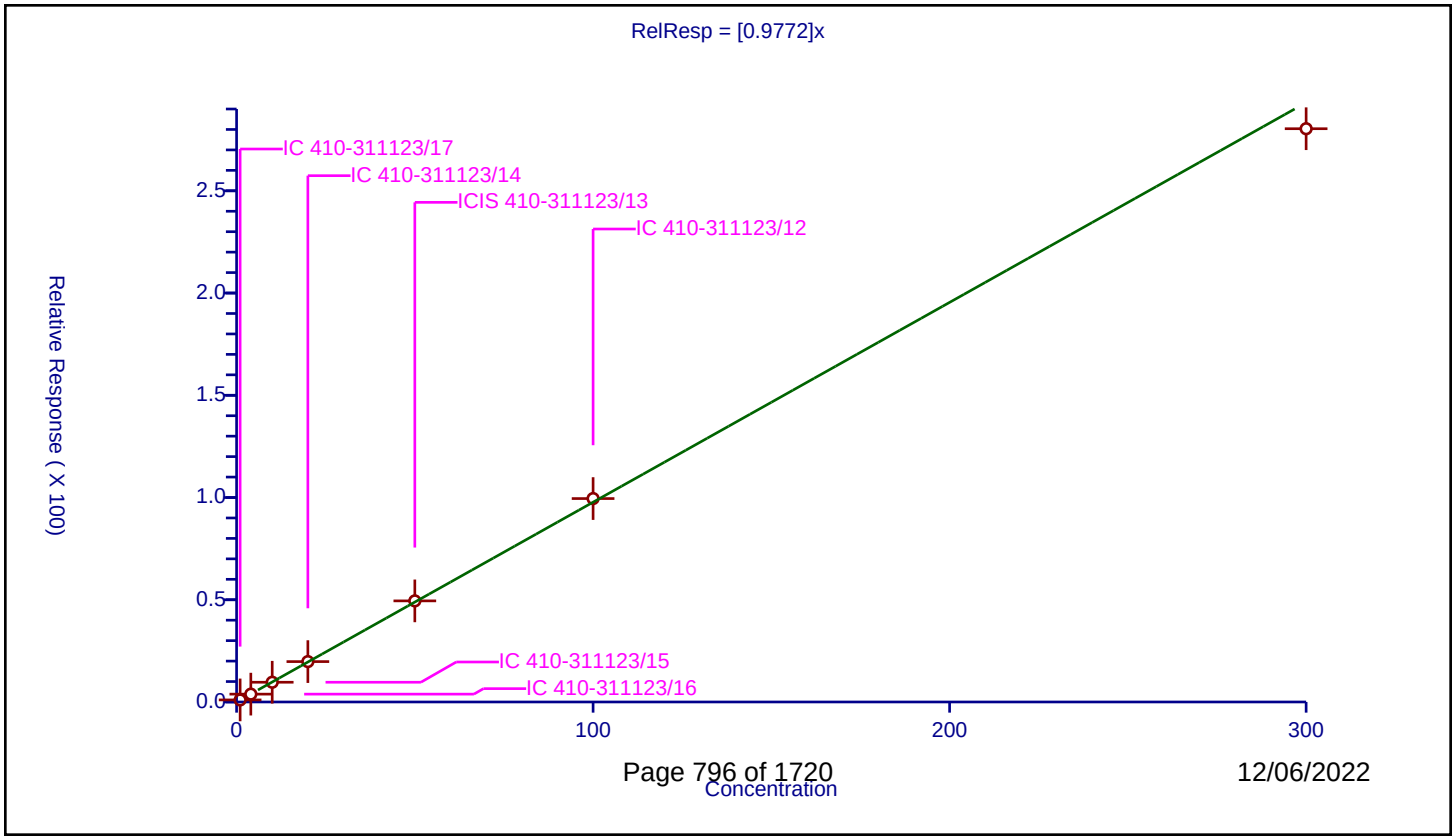
Curve Coefficients

Intercept:	0
Slope:	0.9772

Error Coefficients

Standard Error:	2850000
Relative Standard Error:	2.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	1.008574	50.0	1014254.0	1.008574	Y
2	IC 410-311123/16	4.0	3.840392	50.0	997359.0	0.960098	Y
3	IC 410-311123/15	10.0	9.651682	50.0	1047605.0	0.965168	Y
4	IC 410-311123/14	20.0	19.757092	50.0	1041836.0	0.987855	Y
5	ICIS 410-311123/13	50.0	49.446485	50.0	1069167.0	0.98893	Y
6	IC 410-311123/12	100.0	99.491976	50.0	1109987.0	0.99492	Y
7	IC 410-311123/11	300.0	280.367285	50.0	1164900.0	0.934558	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

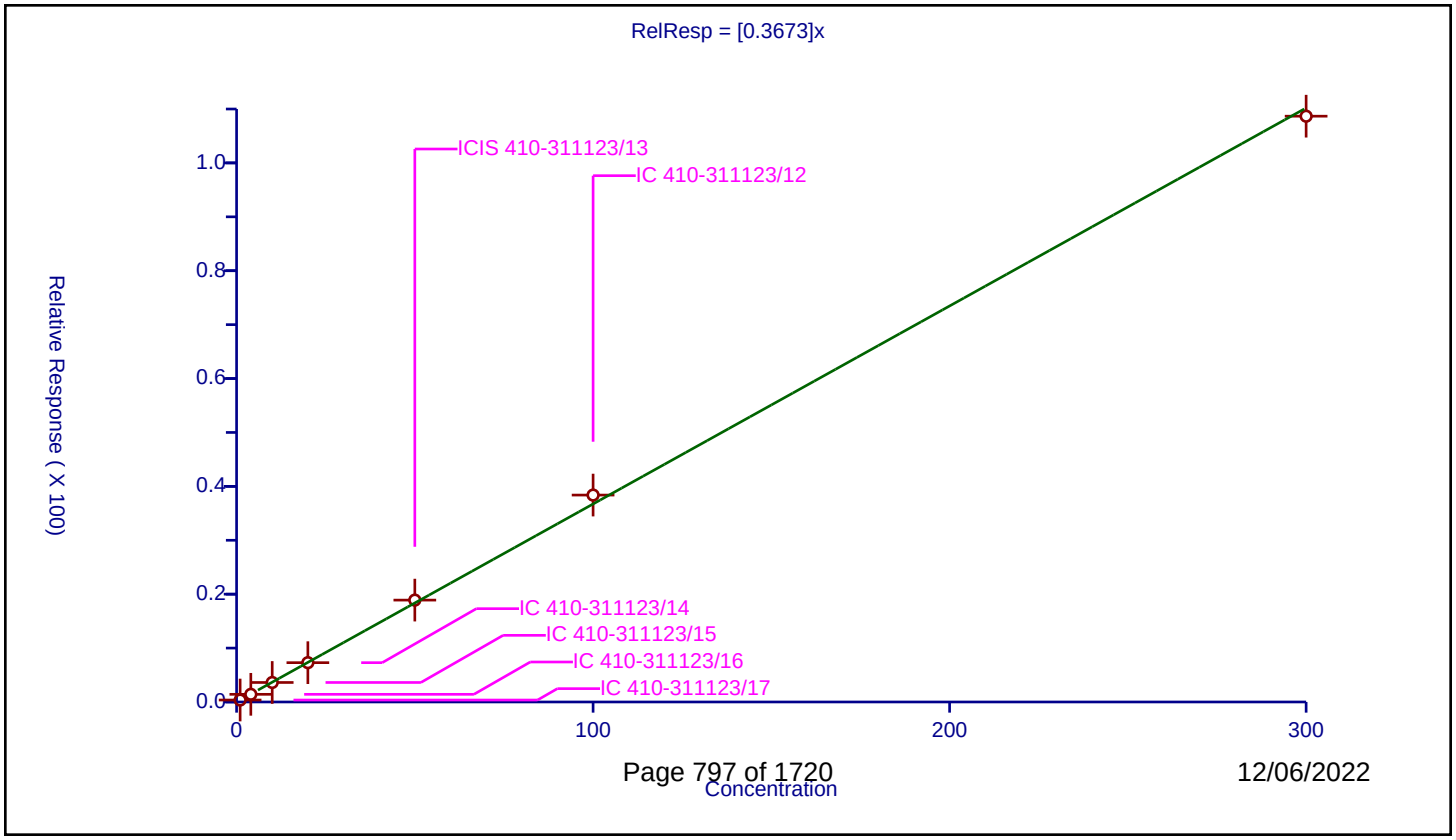
Curve Coefficients

Intercept:	0
Slope:	0.3673

Error Coefficients

Standard Error:	1110000
Relative Standard Error:	2.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.365687	50.0	1014254.0	0.365687	Y
2	IC 410-311123/16	4.0	1.420802	50.0	997359.0	0.355201	Y
3	IC 410-311123/15	10.0	3.616439	50.0	1047605.0	0.361644	Y
4	IC 410-311123/14	20.0	7.292942	50.0	1041836.0	0.364647	Y
5	ICIS 410-311123/13	50.0	18.901444	50.0	1069167.0	0.378029	Y
6	IC 410-311123/12	100.0	38.383332	50.0	1109987.0	0.383833	Y
7	IC 410-311123/11	300.0	108.667954	50.0	1164900.0	0.362227	Y



Calibration / Ethylbenzene

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

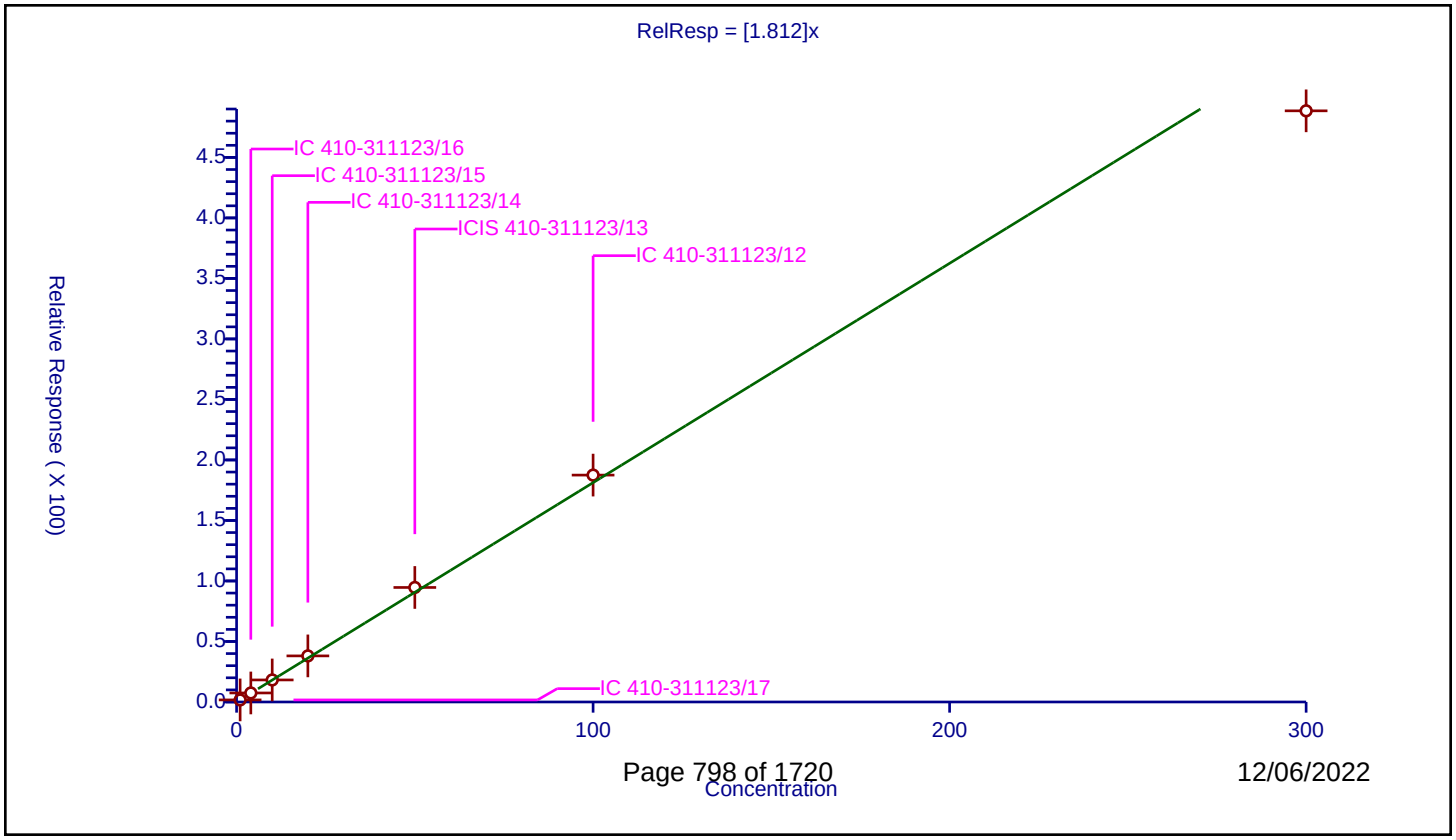
Curve Coefficients

Intercept:	0
Slope:	1.812

Error Coefficients

Standard Error:	5030000
Relative Standard Error:	5.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	1.701152	50.0	1014254.0	1.701152	Y
2	IC 410-311123/16	4.0	7.457545	50.0	997359.0	1.864386	Y
3	IC 410-311123/15	10.0	18.213115	50.0	1047605.0	1.821311	Y
4	IC 410-311123/14	20.0	38.084785	50.0	1041836.0	1.904239	Y
5	ICIS 410-311123/13	50.0	94.640921	50.0	1069167.0	1.892818	Y
6	IC 410-311123/12	100.0	187.497511	50.0	1109987.0	1.874975	Y
7	IC 410-311123/11	300.0	488.490729	50.0	1164900.0	1.628302	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

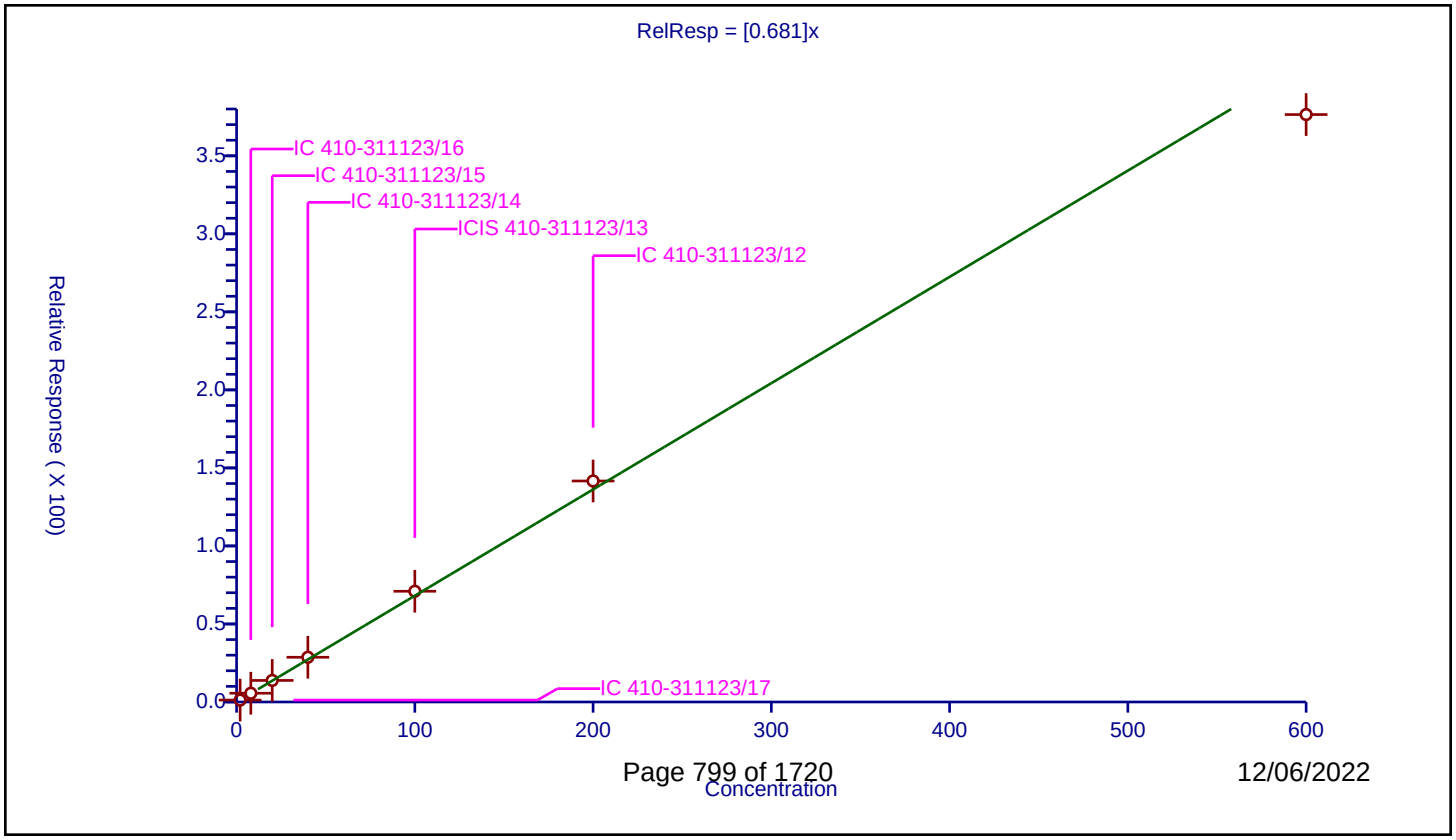
Curve Coefficients

Intercept:	0
Slope:	0.681

Error Coefficients

Standard Error:	3860000
Relative Standard Error:	6.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	2.0	1.226517	50.0	1014254.0	0.613259	Y
2	IC 410-311123/16	8.0	5.606908	50.0	997359.0	0.700863	Y
3	IC 410-311123/15	20.0	13.823483	50.0	1047605.0	0.691174	Y
4	IC 410-311123/14	40.0	28.666796	50.0	1041836.0	0.71667	Y
5	ICIS 410-311123/13	100.0	70.964826	50.0	1069167.0	0.709648	Y
6	IC 410-311123/12	200.0	141.631614	50.0	1109987.0	0.708158	Y
7	IC 410-311123/11	600.0	376.437505	50.0	1164900.0	0.627396	Y



Calibration / o-Xylene

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

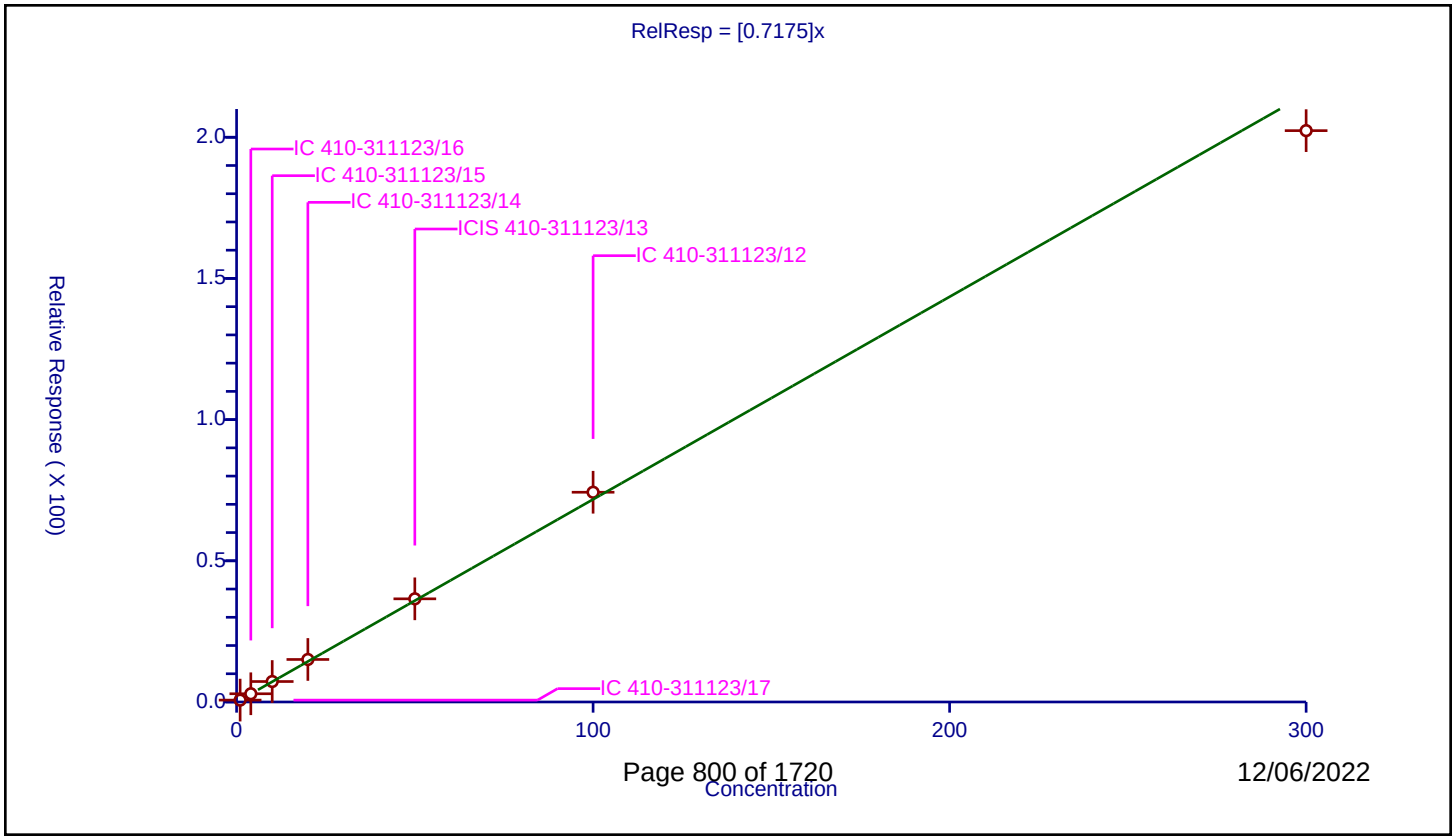
Curve Coefficients

Intercept:	0
Slope:	0.7175

Error Coefficients

Standard Error:	2070000
Relative Standard Error:	4.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.668767	50.0	1014254.0	0.668767	Y
2	IC 410-311123/16	4.0	2.912793	50.0	997359.0	0.728198	Y
3	IC 410-311123/15	10.0	7.251111	50.0	1047605.0	0.725111	Y
4	IC 410-311123/14	20.0	15.055393	50.0	1041836.0	0.75277	Y
5	ICIS 410-311123/13	50.0	36.531477	50.0	1069167.0	0.73063	Y
6	IC 410-311123/12	100.0	74.284834	50.0	1109987.0	0.742848	Y
7	IC 410-311123/11	300.0	202.344536	50.0	1164900.0	0.674482	Y



Calibration / Styrene

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

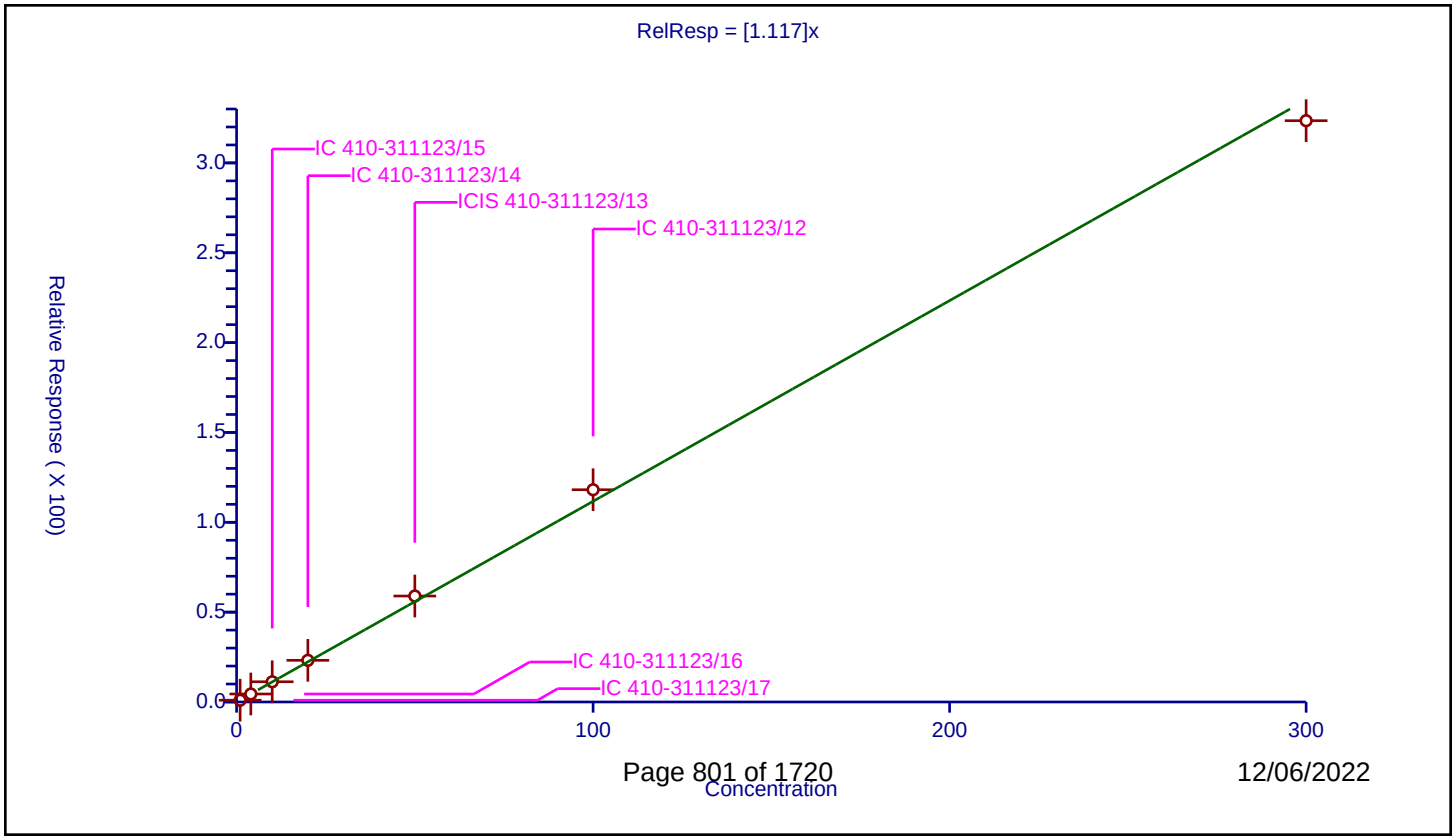
Curve Coefficients

Intercept:	0
Slope:	1.117

Error Coefficients

Standard Error:	3310000
Relative Standard Error:	6.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.981756	50.0	1014254.0	0.981756	Y
2	IC 410-311123/16	4.0	4.450604	50.0	997359.0	1.112651	Y
3	IC 410-311123/15	10.0	11.248944	50.0	1047605.0	1.124894	Y
4	IC 410-311123/14	20.0	23.191798	50.0	1041836.0	1.15959	Y
5	ICIS 410-311123/13	50.0	58.974323	50.0	1069167.0	1.179486	Y
6	IC 410-311123/12	100.0	118.123951	50.0	1109987.0	1.18124	Y
7	IC 410-311123/11	300.0	323.49369	50.0	1164900.0	1.078312	Y



12/06/2022

Calibration / Bromoform

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

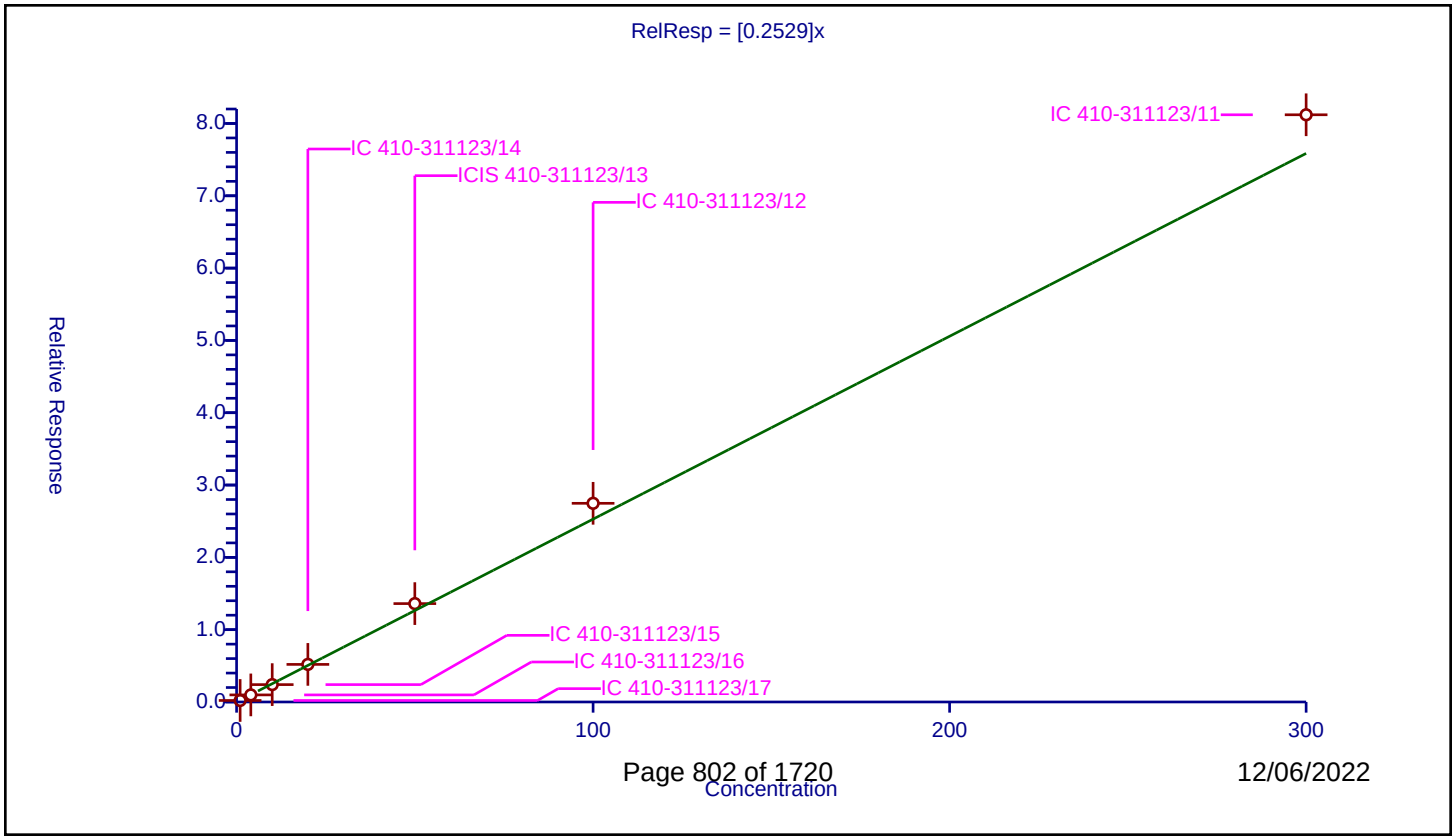
Curve Coefficients

Intercept:	0
Slope:	0.2529

Error Coefficients

Standard Error:	822000
Relative Standard Error:	9.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.207443	50.0	1014254.0	0.207443	Y
2	IC 410-311123/16	4.0	0.979136	50.0	997359.0	0.244784	Y
3	IC 410-311123/15	10.0	2.403912	50.0	1047605.0	0.240391	Y
4	IC 410-311123/14	20.0	5.198467	50.0	1041836.0	0.259923	Y
5	ICIS 410-311123/13	50.0	13.604657	50.0	1069167.0	0.272093	Y
6	IC 410-311123/12	100.0	27.476358	50.0	1109987.0	0.274764	Y
7	IC 410-311123/11	300.0	81.202936	50.0	1164900.0	0.270676	Y



Calibration / Isopropylbenzene

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

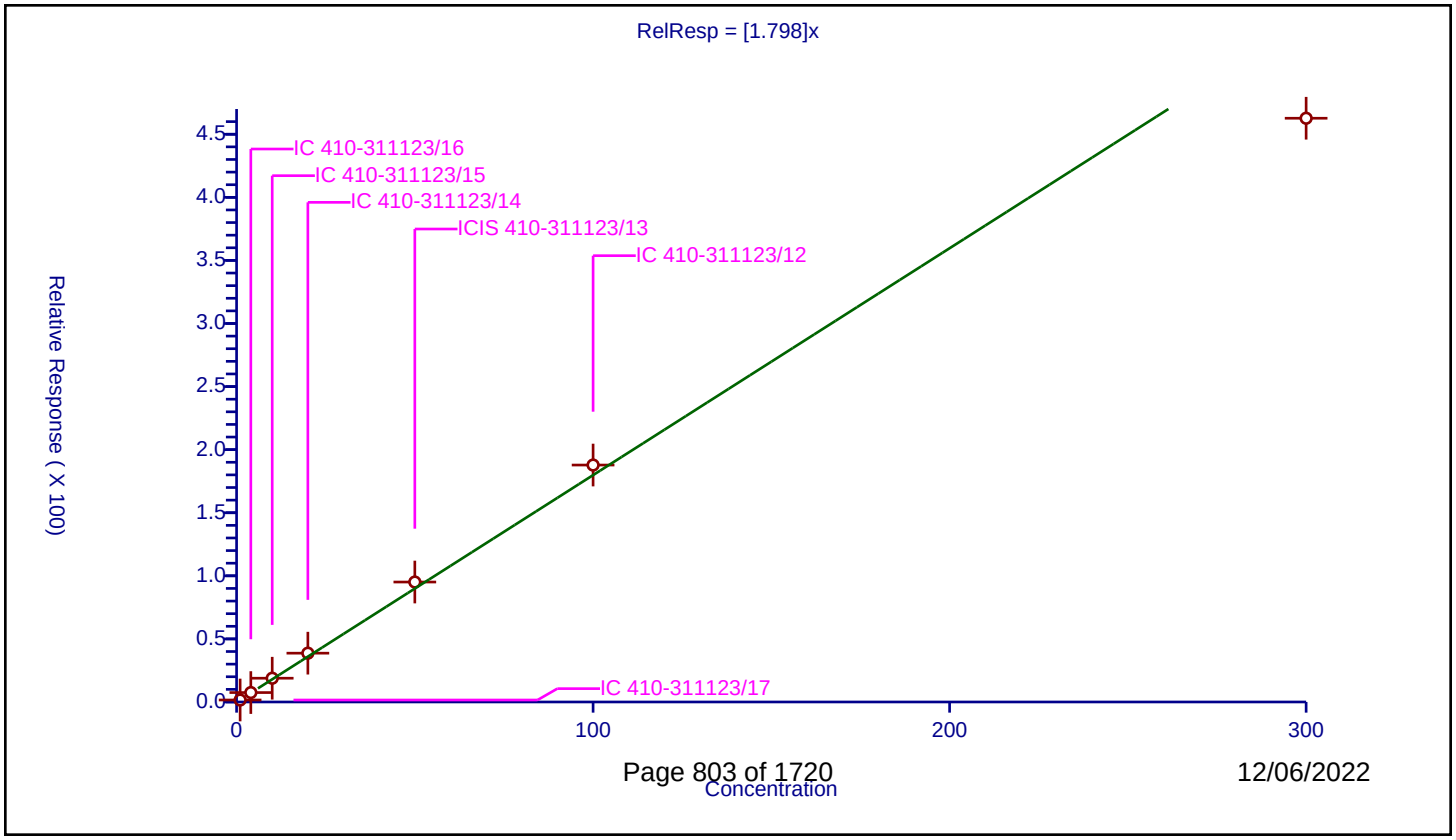
Curve Coefficients

Intercept:	0
Slope:	1.798

Error Coefficients

Standard Error:	4810000
Relative Standard Error:	9.1
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	1.57988	50.0	1014254.0	1.57988	Y
2	IC 410-311123/16	4.0	7.468274	50.0	997359.0	1.867068	Y
3	IC 410-311123/15	10.0	18.836584	50.0	1047605.0	1.883658	Y
4	IC 410-311123/14	20.0	38.698317	50.0	1041836.0	1.934916	Y
5	ICIS 410-311123/13	50.0	95.086408	50.0	1069167.0	1.901728	Y
6	IC 410-311123/12	100.0	187.803506	50.0	1109987.0	1.878035	Y
7	IC 410-311123/11	300.0	462.687527	50.0	1164900.0	1.542292	Y



Calibration / Cyclohexanone

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

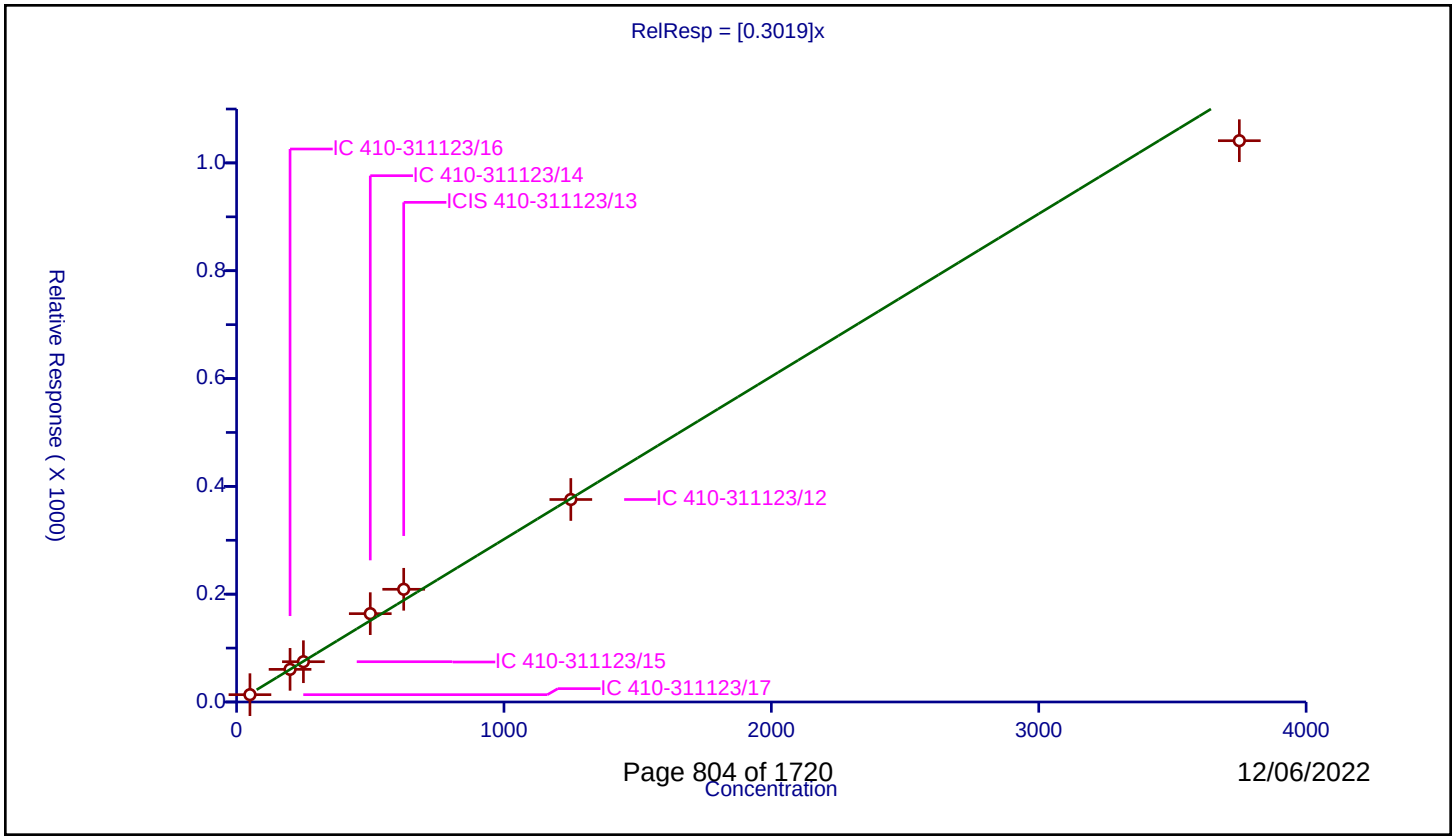
Curve Coefficients

Intercept:	0
Slope:	0.3019

Error Coefficients

Standard Error:	1380000
Relative Standard Error:	7.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	50.003239	13.555308	250.0	601720.0	0.271089	Y
2	IC 410-311123/16	200.012957	60.54461	250.0	723545.0	0.302703	Y
3	IC 410-311123/15	250.016196	74.707898	250.0	751450.0	0.298812	Y
4	IC 410-311123/14	500.032392	163.872199	250.0	750620.0	0.327723	Y
5	ICIS 410-311123/13	625.04049	209.095147	250.0	746464.0	0.334531	Y
6	IC 410-311123/12	1250.08098	375.626663	250.0	758183.0	0.300482	Y
7	IC 410-311123/11	3750.24294	1041.227229	250.0	739202.0	0.277643	Y



Calibration / 4-Bromofluorobenzene (Surr)

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

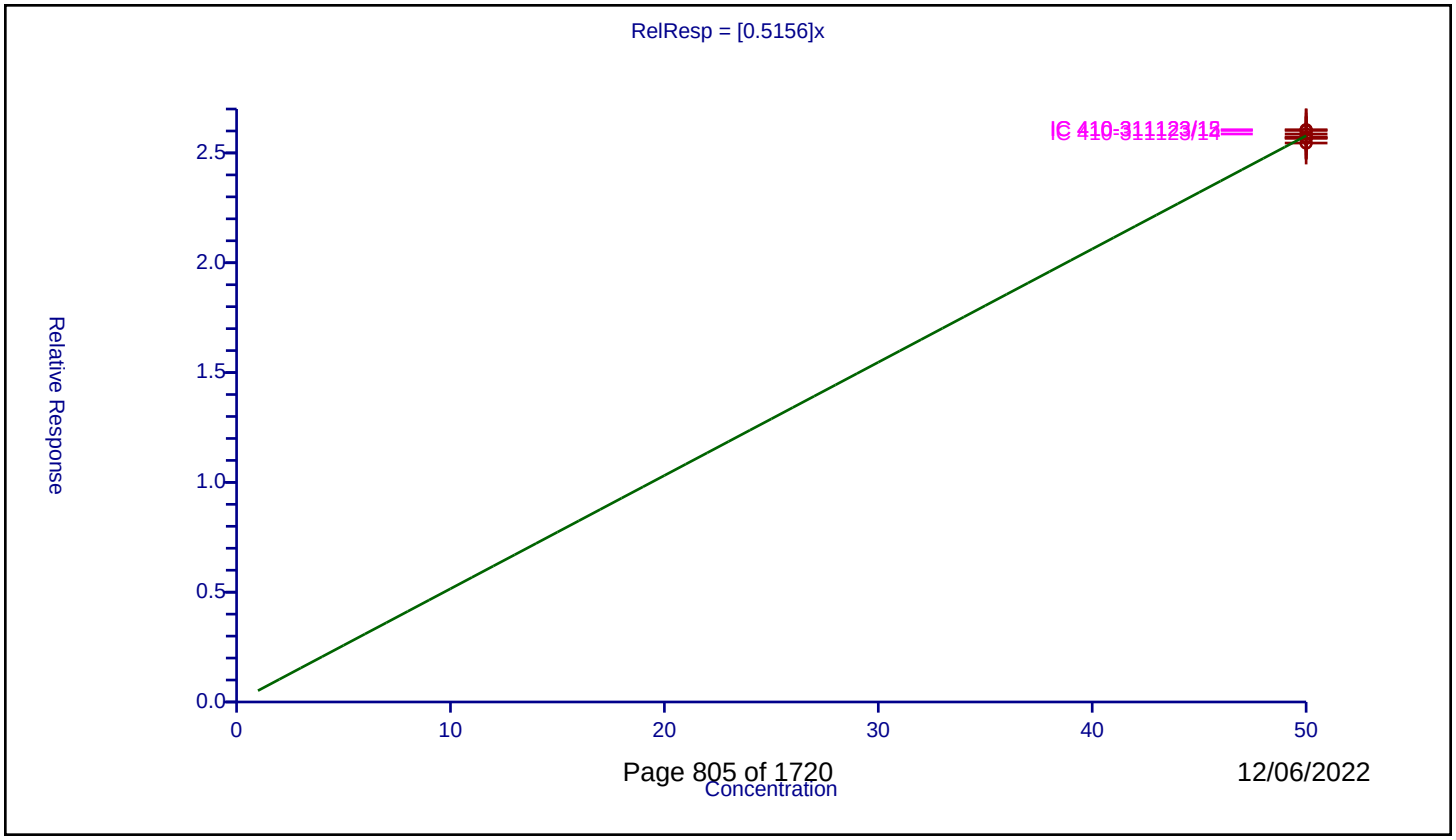
Curve Coefficients

Intercept:	0
Slope:	0.5156

Error Coefficients

Standard Error:	593000
Relative Standard Error:	0.8
Correlation Coefficient:	0.00000000000000000000
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/11	50.0	25.663319	50.0	1164900.0	0.513266	Y
2	IC 410-311123/12	50.0	26.058188	50.0	1109987.0	0.521164	Y
3	ICIS 410-311123/13	50.0	25.450327	50.0	1069167.0	0.509007	Y
4	IC 410-311123/14	50.0	25.8617	50.0	1041836.0	0.517234	Y
5	IC 410-311123/15	50.0	26.025315	50.0	1047605.0	0.520506	Y
6	IC 410-311123/16	50.0	25.723987	50.0	997359.0	0.51448	Y
7	IC 410-311123/17	50.0	25.692578	50.0	1014254.0	0.513852	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

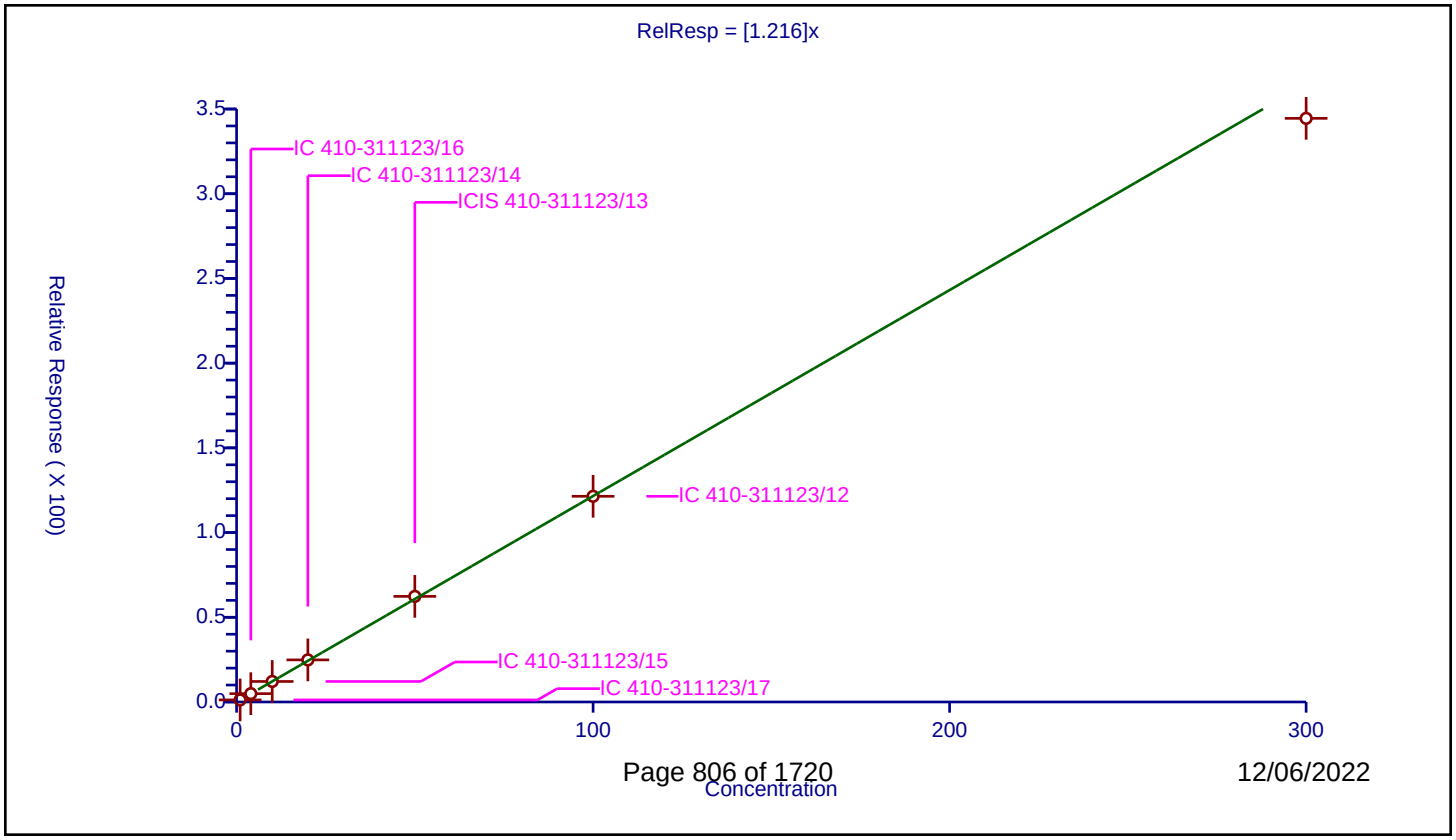
Curve Coefficients

Intercept:	0
Slope:	1.216

Error Coefficients

Standard Error:	1890000
Relative Standard Error:	2.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	1.214597	50.0	549112.0	1.214597	Y
2	IC 410-311123/16	4.0	4.926329	50.0	545599.0	1.231582	Y
3	IC 410-311123/15	10.0	12.115398	50.0	580113.0	1.21154	Y
4	IC 410-311123/14	20.0	24.848716	50.0	569458.0	1.242436	Y
5	ICIS 410-311123/13	50.0	62.331686	50.0	576823.0	1.246634	Y
6	IC 410-311123/12	100.0	121.415132	50.0	605880.0	1.214151	Y
7	IC 410-311123/11	300.0	344.485102	50.0	628153.0	1.148284	Y



Calibration / Bromobenzene

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

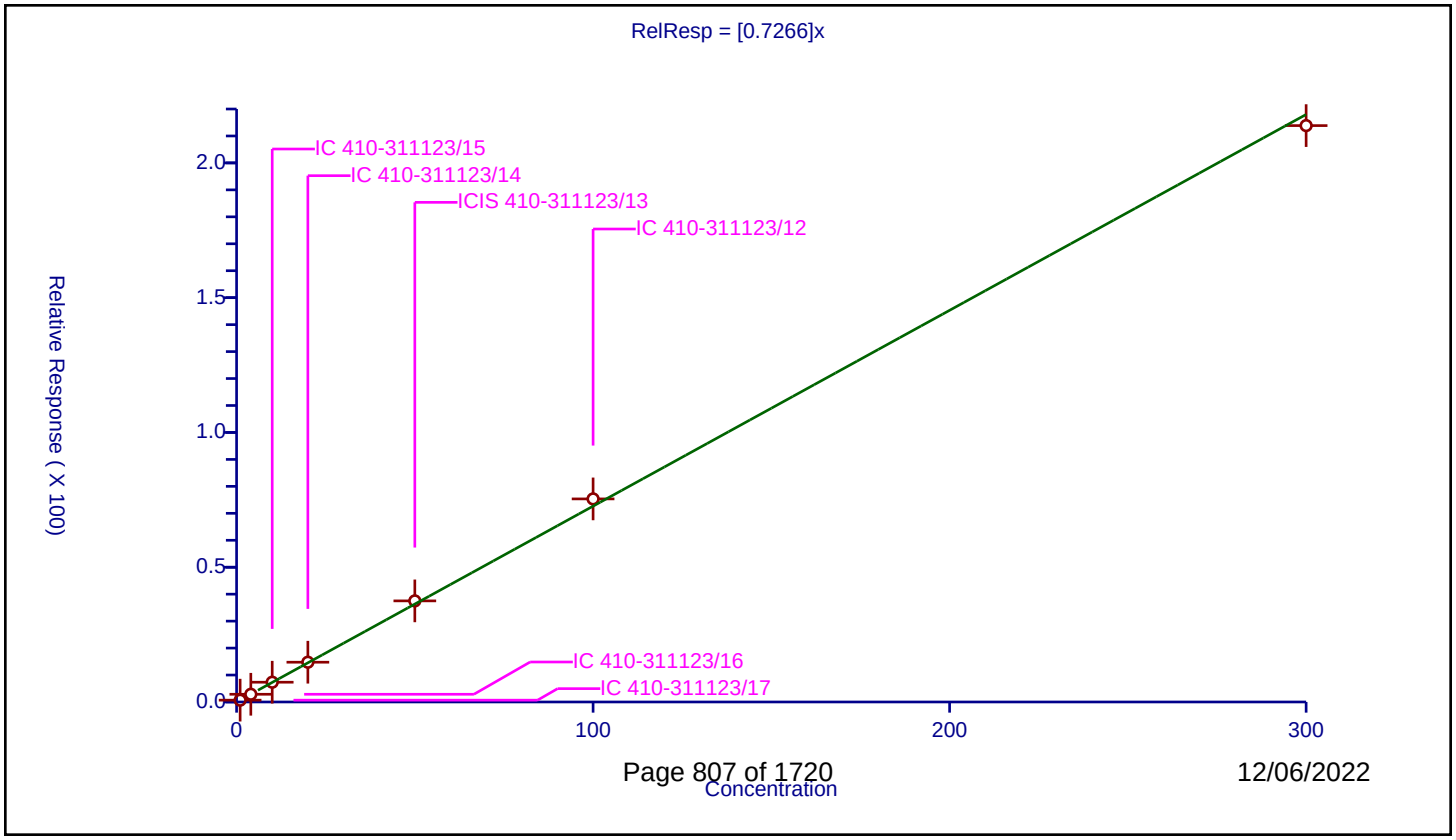
Curve Coefficients

Intercept:	0
Slope:	0.7266

Error Coefficients

Standard Error:	1170000
Relative Standard Error:	3.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.681464	50.0	549112.0	0.681464	Y
2	IC 410-311123/16	4.0	2.866941	50.0	545599.0	0.716735	Y
3	IC 410-311123/15	10.0	7.335381	50.0	580113.0	0.733538	Y
4	IC 410-311123/14	20.0	14.757541	50.0	569458.0	0.737877	Y
5	ICIS 410-311123/13	50.0	37.508993	50.0	576823.0	0.75018	Y
6	IC 410-311123/12	100.0	75.344953	50.0	605880.0	0.75345	Y
7	IC 410-311123/11	300.0	213.845194	50.0	628153.0	0.712817	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

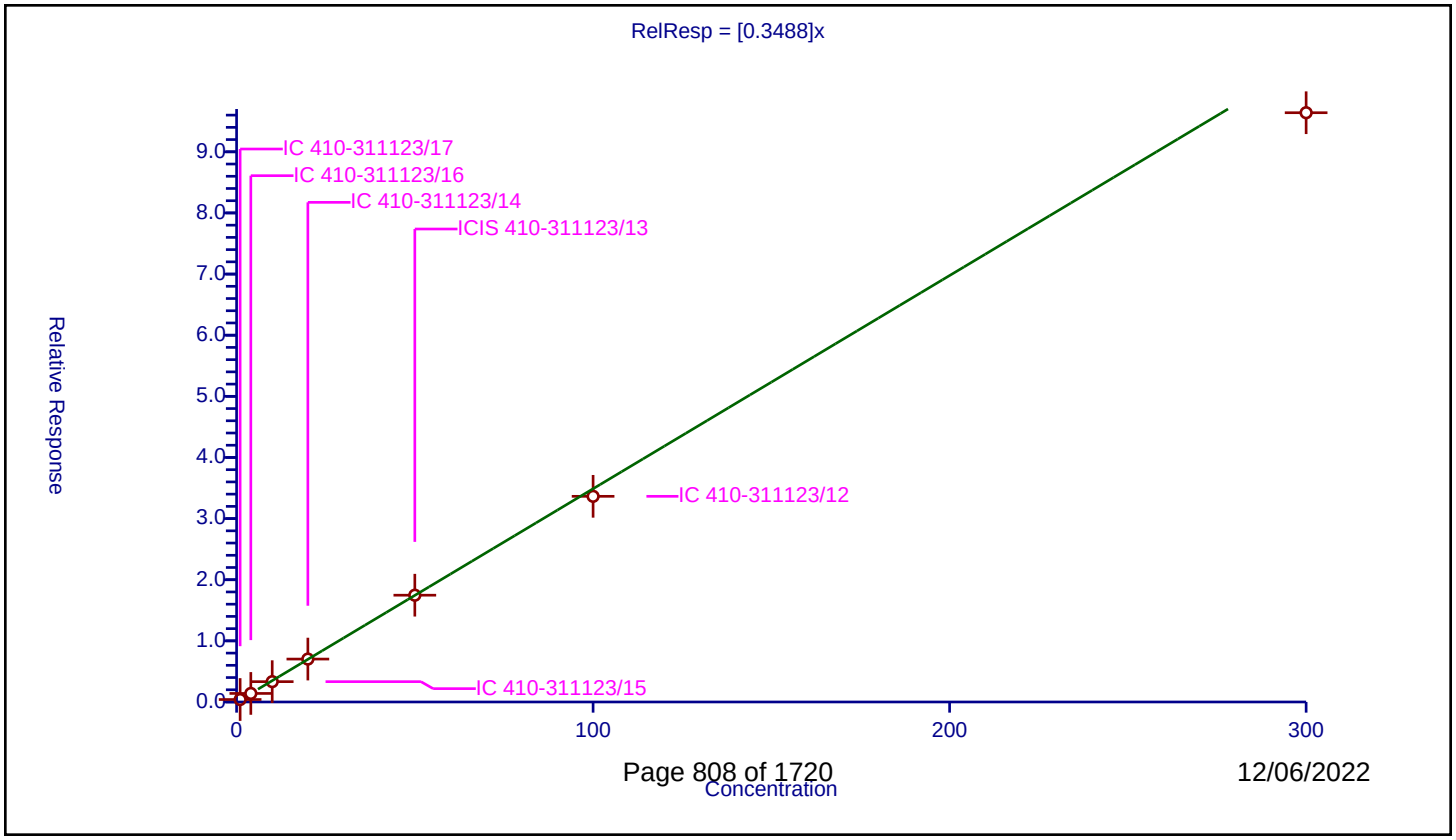
Curve Coefficients

Intercept:	0
Slope:	0.3488

Error Coefficients

Standard Error:	529000
Relative Standard Error:	7.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.401648	50.0	549112.0	0.401648	Y
2	IC 410-311123/16	4.0	1.39663	50.0	545599.0	0.349158	Y
3	IC 410-311123/15	10.0	3.327024	50.0	580113.0	0.332702	Y
4	IC 410-311123/14	20.0	7.019043	50.0	569458.0	0.350952	Y
5	ICIS 410-311123/13	50.0	17.469224	50.0	576823.0	0.349384	Y
6	IC 410-311123/12	100.0	33.643296	50.0	605880.0	0.336433	Y
7	IC 410-311123/11	300.0	96.395464	50.0	628153.0	0.321318	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

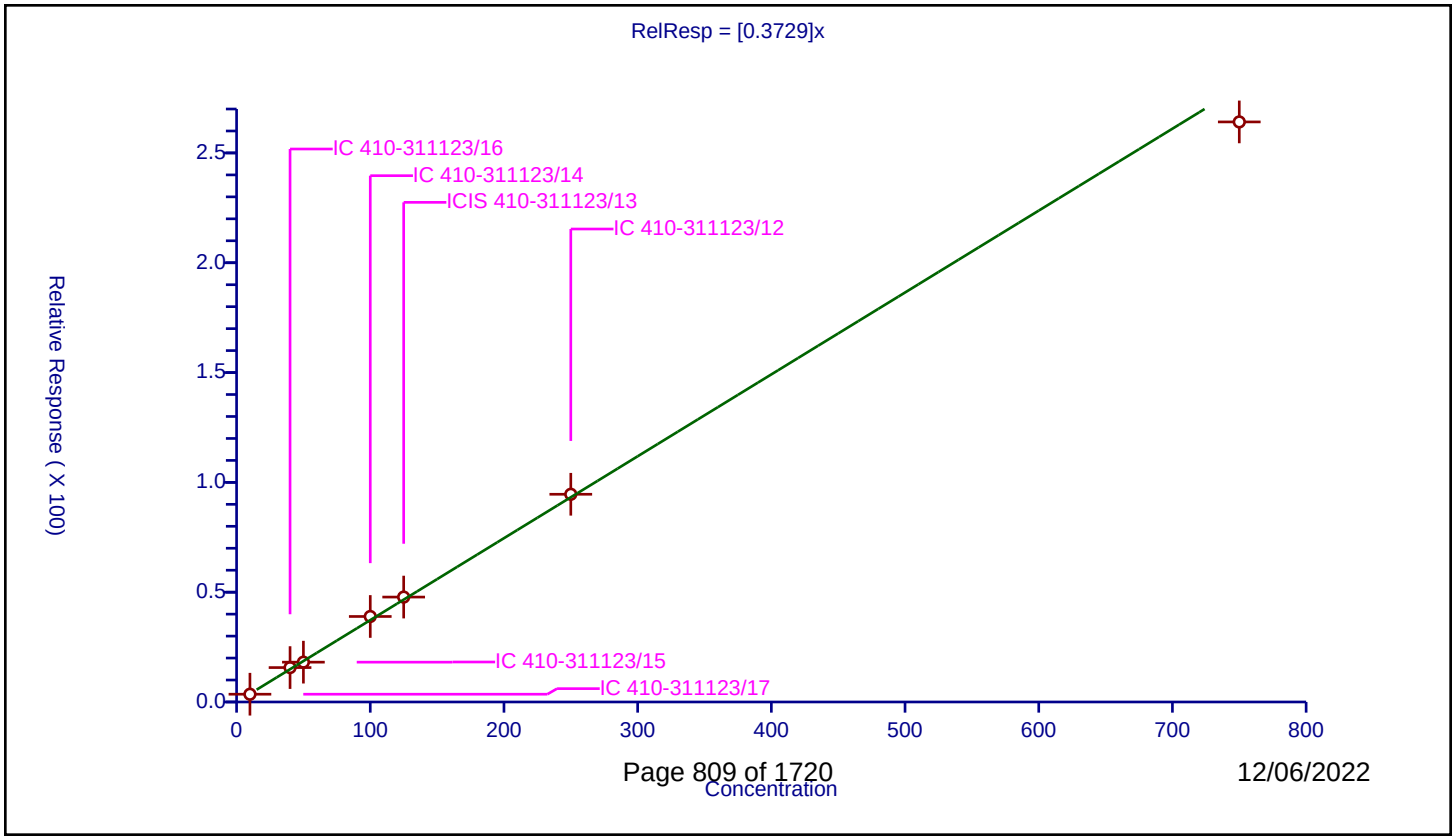
Curve Coefficients

Intercept:	0
Slope:	0.3729

Error Coefficients

Standard Error:	1470000
Relative Standard Error:	4.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	10.0	3.539533	50.0	549112.0	0.353953	Y
2	IC 410-311123/16	40.0	15.666451	50.0	545599.0	0.391661	Y
3	IC 410-311123/15	50.0	18.13276	50.0	580113.0	0.362655	Y
4	IC 410-311123/14	100.0	38.939571	50.0	569458.0	0.389396	Y
5	ICIS 410-311123/13	125.0	47.768466	50.0	576823.0	0.382148	Y
6	IC 410-311123/12	250.0	94.576649	50.0	605880.0	0.378307	Y
7	IC 410-311123/11	750.0	264.128564	50.0	628153.0	0.352171	Y



Calibration / N-Propylbenzene

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

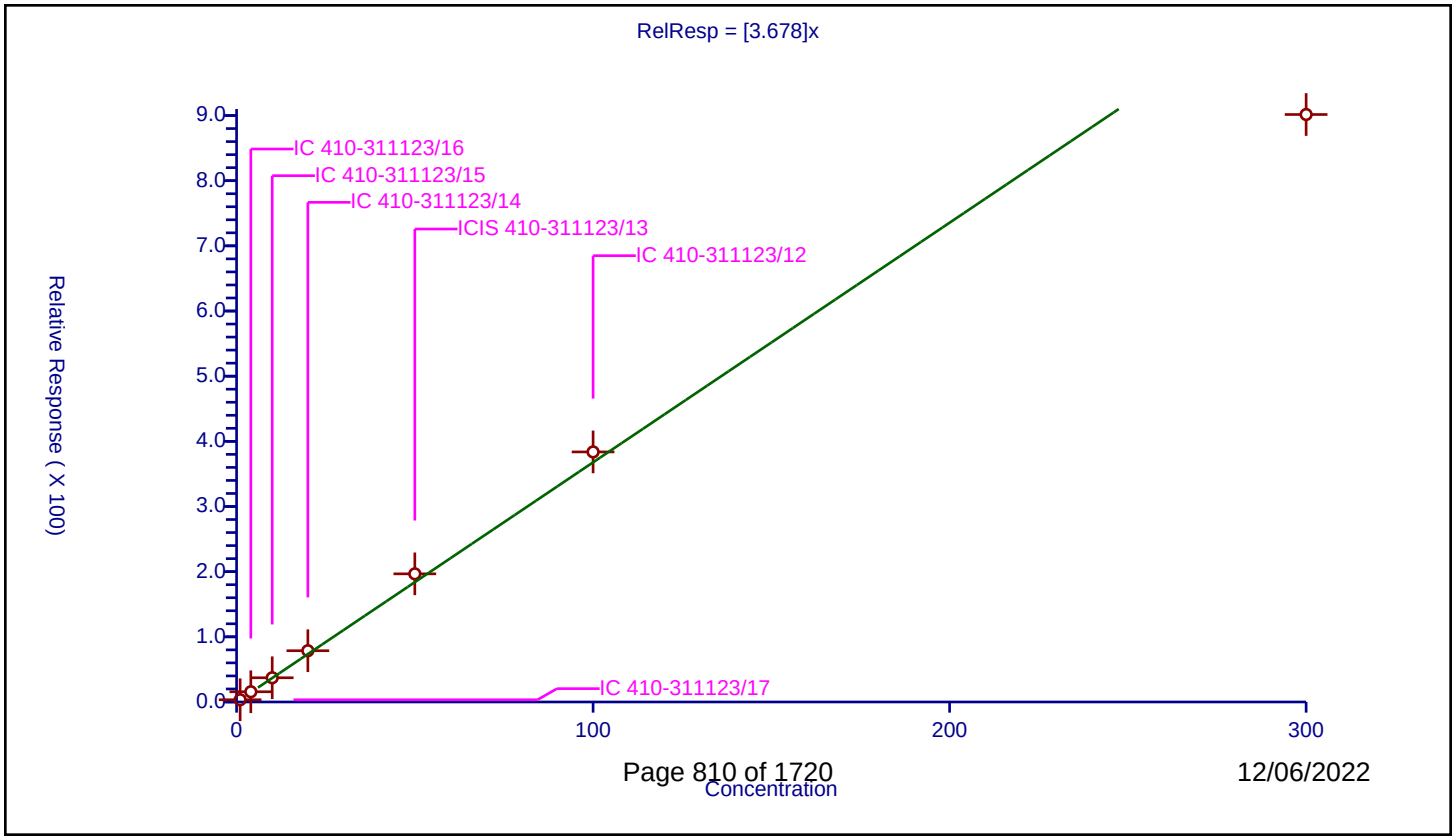
Curve Coefficients

Intercept:	0
Slope:	3.678

Error Coefficients

Standard Error:	5100000
Relative Standard Error:	9.6
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	3.398123	50.0	549112.0	3.398123	Y
2	IC 410-311123/16	4.0	15.675982	50.0	545599.0	3.918995	Y
3	IC 410-311123/15	10.0	37.160863	50.0	580113.0	3.716086	Y
4	IC 410-311123/14	20.0	78.686049	50.0	569458.0	3.934302	Y
5	ICIS 410-311123/13	50.0	196.655473	50.0	576823.0	3.933109	Y
6	IC 410-311123/12	100.0	383.75132	50.0	605880.0	3.837513	Y
7	IC 410-311123/11	300.0	901.578915	50.0	628153.0	3.005263	Y



Calibration / 2-Chlorotoluene

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

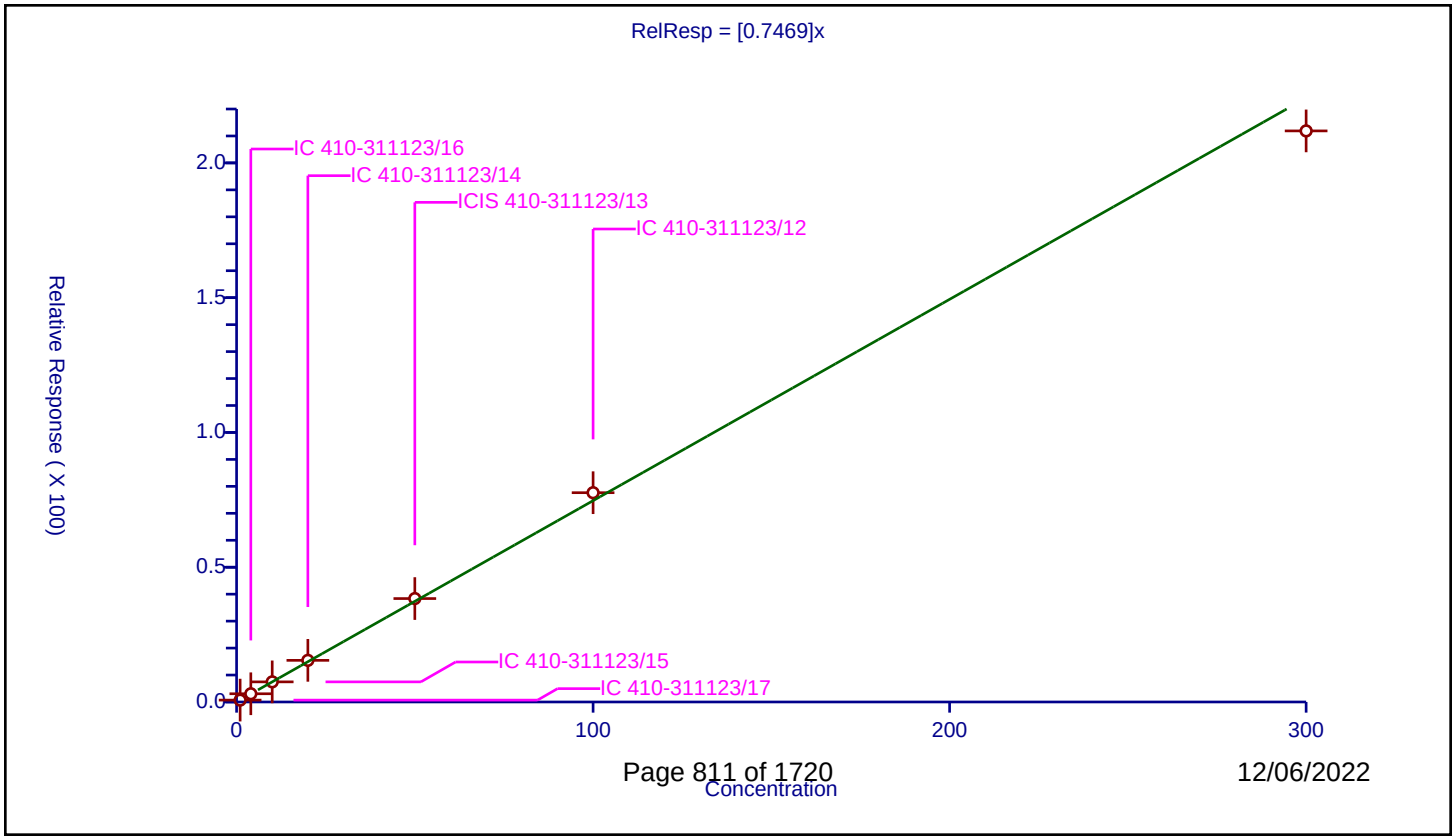
Curve Coefficients

Intercept:	0
Slope:	0.7469

Error Coefficients

Standard Error:	1170000
Relative Standard Error:	4.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.697217	50.0	549112.0	0.697217	Y
2	IC 410-311123/16	4.0	3.047568	50.0	545599.0	0.761892	Y
3	IC 410-311123/15	10.0	7.467166	50.0	580113.0	0.746717	Y
4	IC 410-311123/14	20.0	15.449954	50.0	569458.0	0.772498	Y
5	ICIS 410-311123/13	50.0	38.37217	50.0	576823.0	0.767443	Y
6	IC 410-311123/12	100.0	77.649452	50.0	605880.0	0.776495	Y
7	IC 410-311123/11	300.0	211.881819	50.0	628153.0	0.706273	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

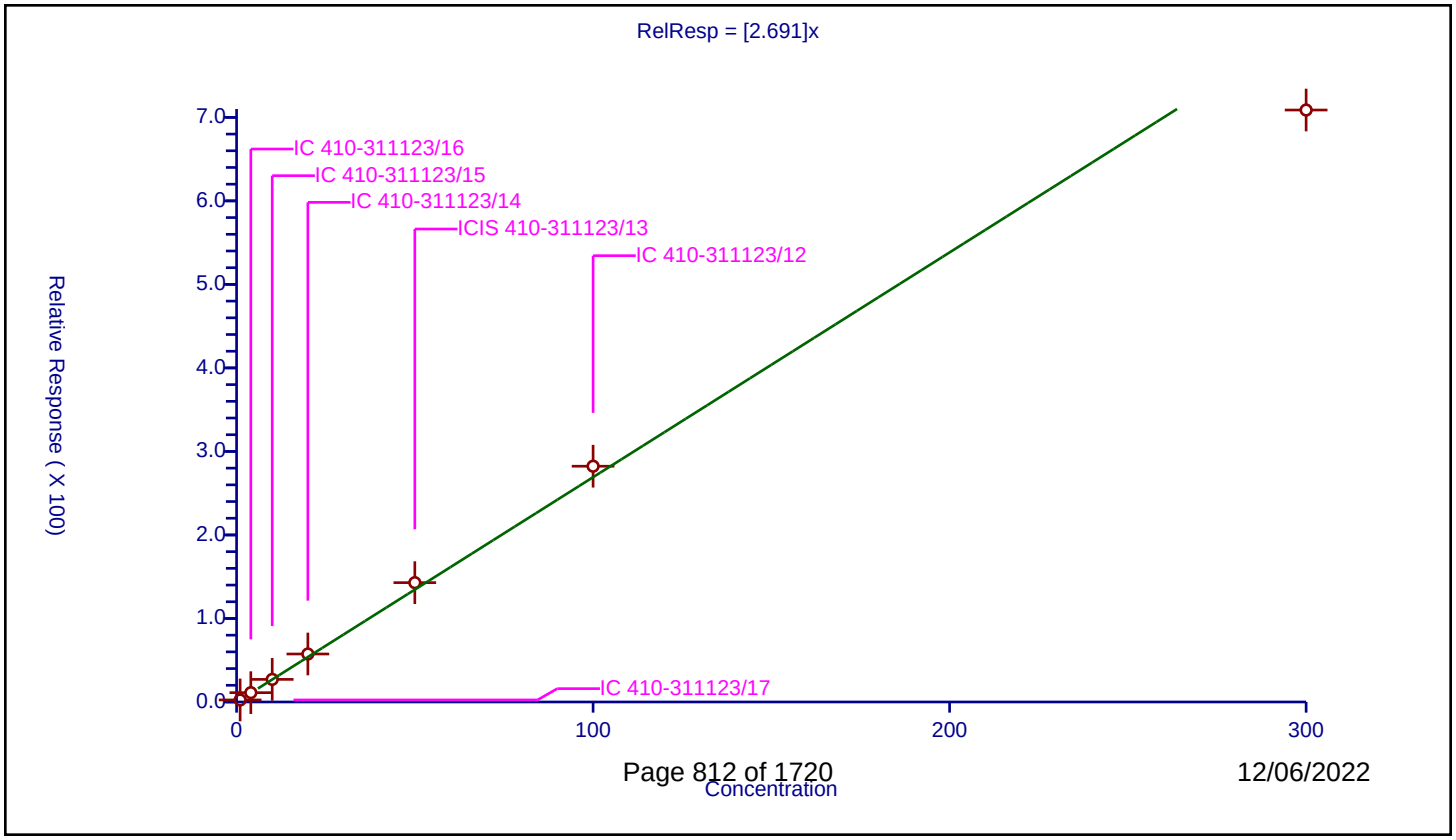
Curve Coefficients

Intercept:	0
Slope:	2.691

Error Coefficients

Standard Error:	3960000
Relative Standard Error:	7.8
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	2.431562	50.0	549112.0	2.431562	Y
2	IC 410-311123/16	4.0	11.149397	50.0	545599.0	2.787349	Y
3	IC 410-311123/15	10.0	27.056711	50.0	580113.0	2.705671	Y
4	IC 410-311123/14	20.0	57.44392	50.0	569458.0	2.872196	Y
5	ICIS 410-311123/13	50.0	142.894441	50.0	576823.0	2.857889	Y
6	IC 410-311123/12	100.0	282.318116	50.0	605880.0	2.823181	Y
7	IC 410-311123/11	300.0	708.77334	50.0	628153.0	2.362578	Y



Calibration / 4-Chlorotoluene

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

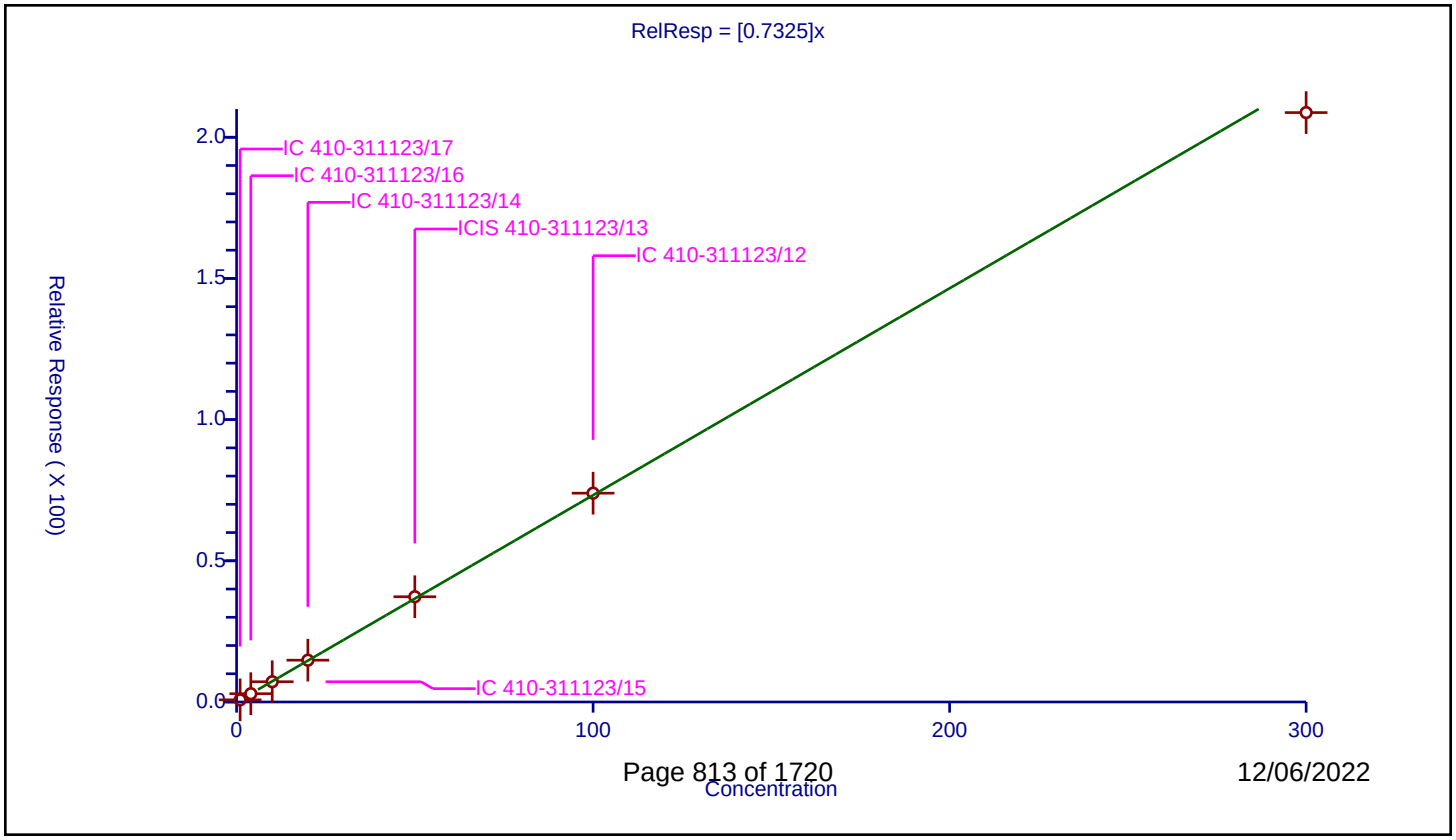
Curve Coefficients

Intercept:	0
Slope:	0.7325

Error Coefficients

Standard Error:	1150000
Relative Standard Error:	2.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.756494	50.0	549112.0	0.756494	Y
2	IC 410-311123/16	4.0	2.932557	50.0	545599.0	0.733139	Y
3	IC 410-311123/15	10.0	7.170413	50.0	580113.0	0.717041	Y
4	IC 410-311123/14	20.0	14.801618	50.0	569458.0	0.740081	Y
5	ICIS 410-311123/13	50.0	37.266631	50.0	576823.0	0.745333	Y
6	IC 410-311123/12	100.0	73.947069	50.0	605880.0	0.739471	Y
7	IC 410-311123/11	300.0	208.737999	50.0	628153.0	0.695793	Y



Calibration / tert-Butylbenzene

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

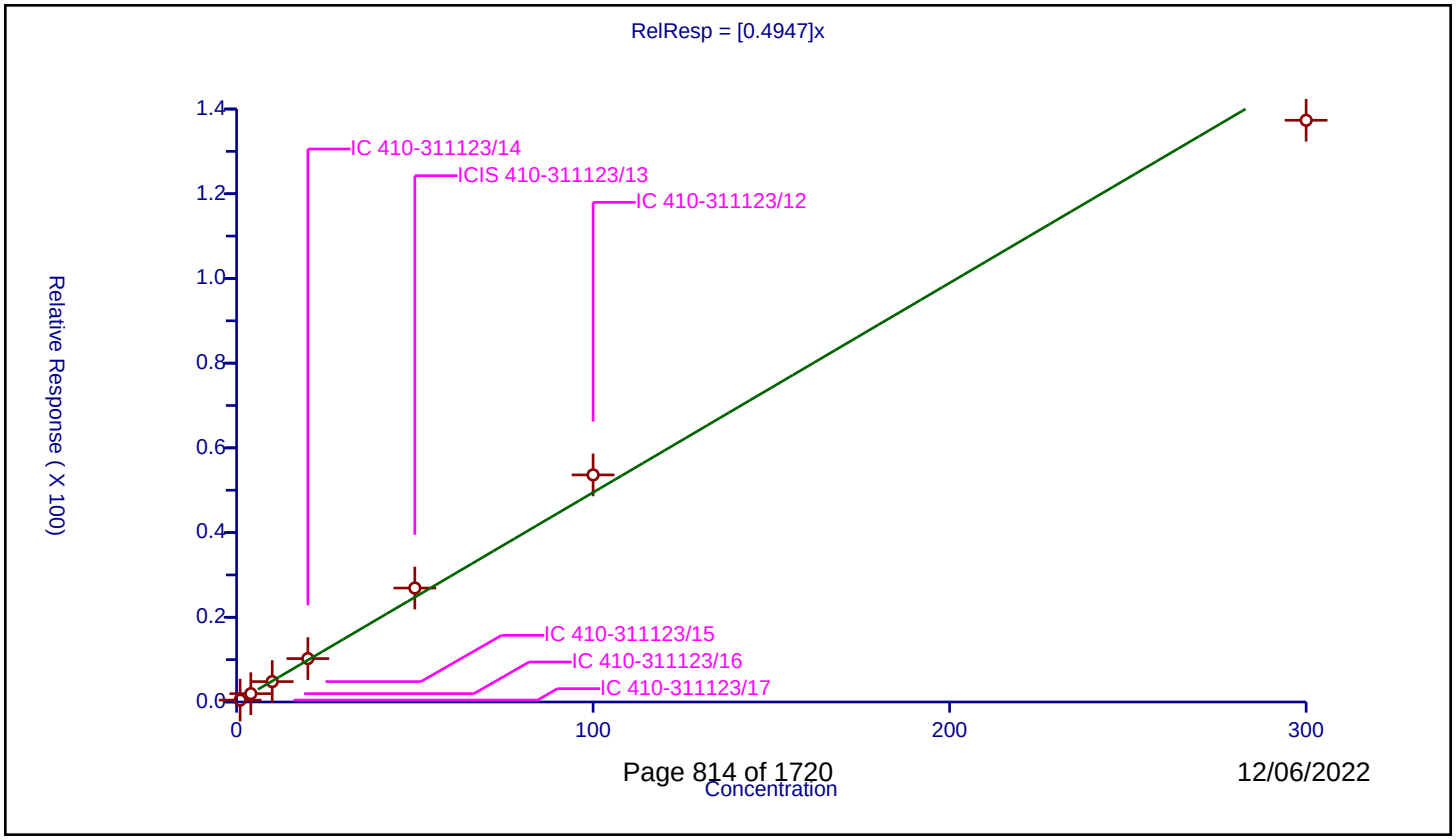
Curve Coefficients

Intercept:	0
Slope:	0.4947

Error Coefficients

Standard Error:	765000
Relative Standard Error:	7.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.445902	50.0	549112.0	0.445902	Y
2	IC 410-311123/16	4.0	1.96518	50.0	545599.0	0.491295	Y
3	IC 410-311123/15	10.0	4.814752	50.0	580113.0	0.481475	Y
4	IC 410-311123/14	20.0	10.243688	50.0	569458.0	0.512184	Y
5	ICIS 410-311123/13	50.0	26.90106	50.0	576823.0	0.538021	Y
6	IC 410-311123/12	100.0	53.613917	50.0	605880.0	0.536139	Y
7	IC 410-311123/11	300.0	137.345917	50.0	628153.0	0.45782	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

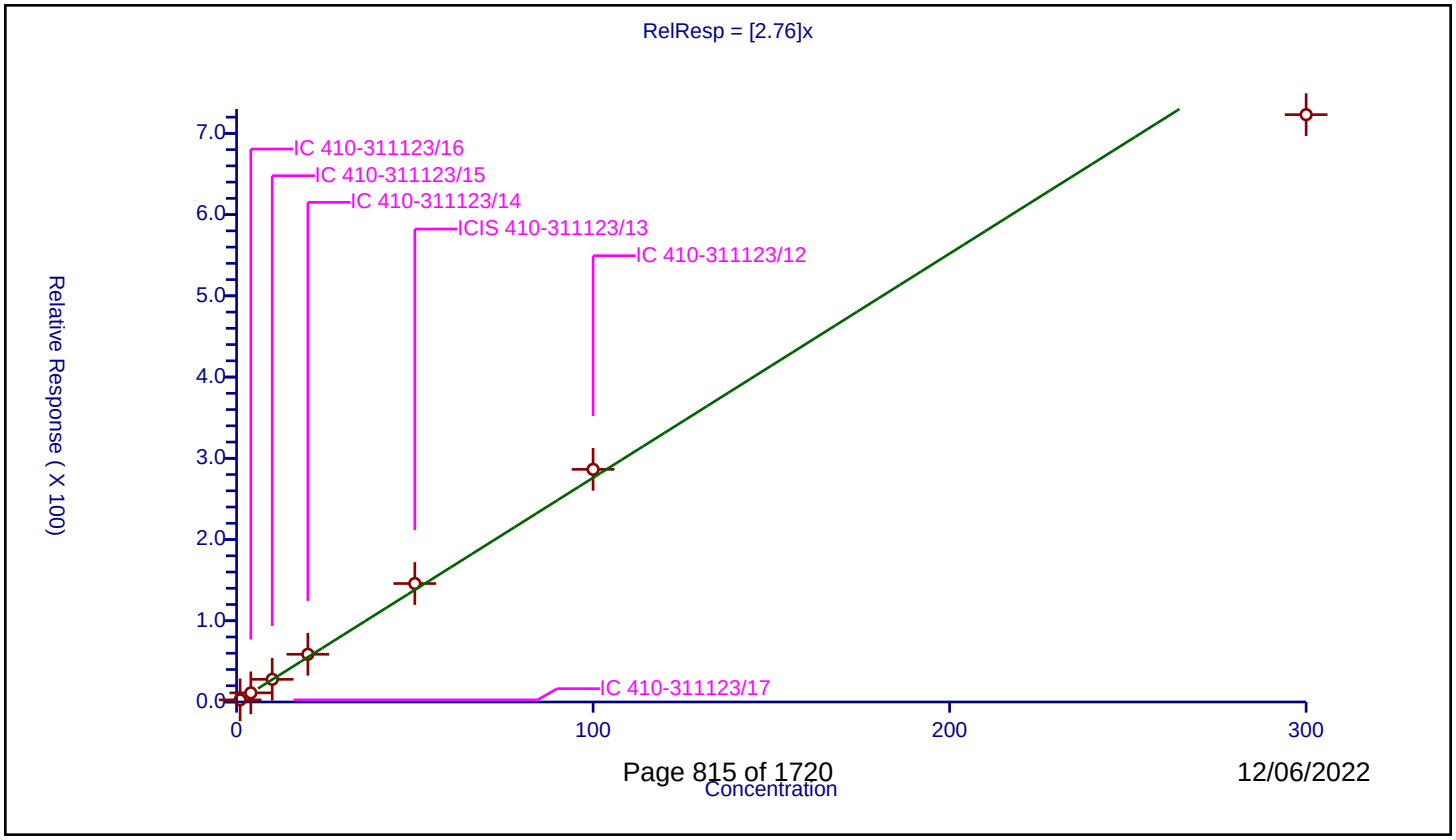
Curve Coefficients

Intercept:	0
Slope:	2.76

Error Coefficients

Standard Error:	4040000
Relative Standard Error:	6.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	2.594097	50.0	549112.0	2.594097	Y
2	IC 410-311123/16	4.0	11.242598	50.0	545599.0	2.810649	Y
3	IC 410-311123/15	10.0	27.878965	50.0	580113.0	2.787896	Y
4	IC 410-311123/14	20.0	58.740504	50.0	569458.0	2.937025	Y
5	ICIS 410-311123/13	50.0	145.848206	50.0	576823.0	2.916964	Y
6	IC 410-311123/12	100.0	286.368918	50.0	605880.0	2.863689	Y
7	IC 410-311123/11	300.0	723.066912	50.0	628153.0	2.410223	Y



Calibration / sec-Butylbenzene

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

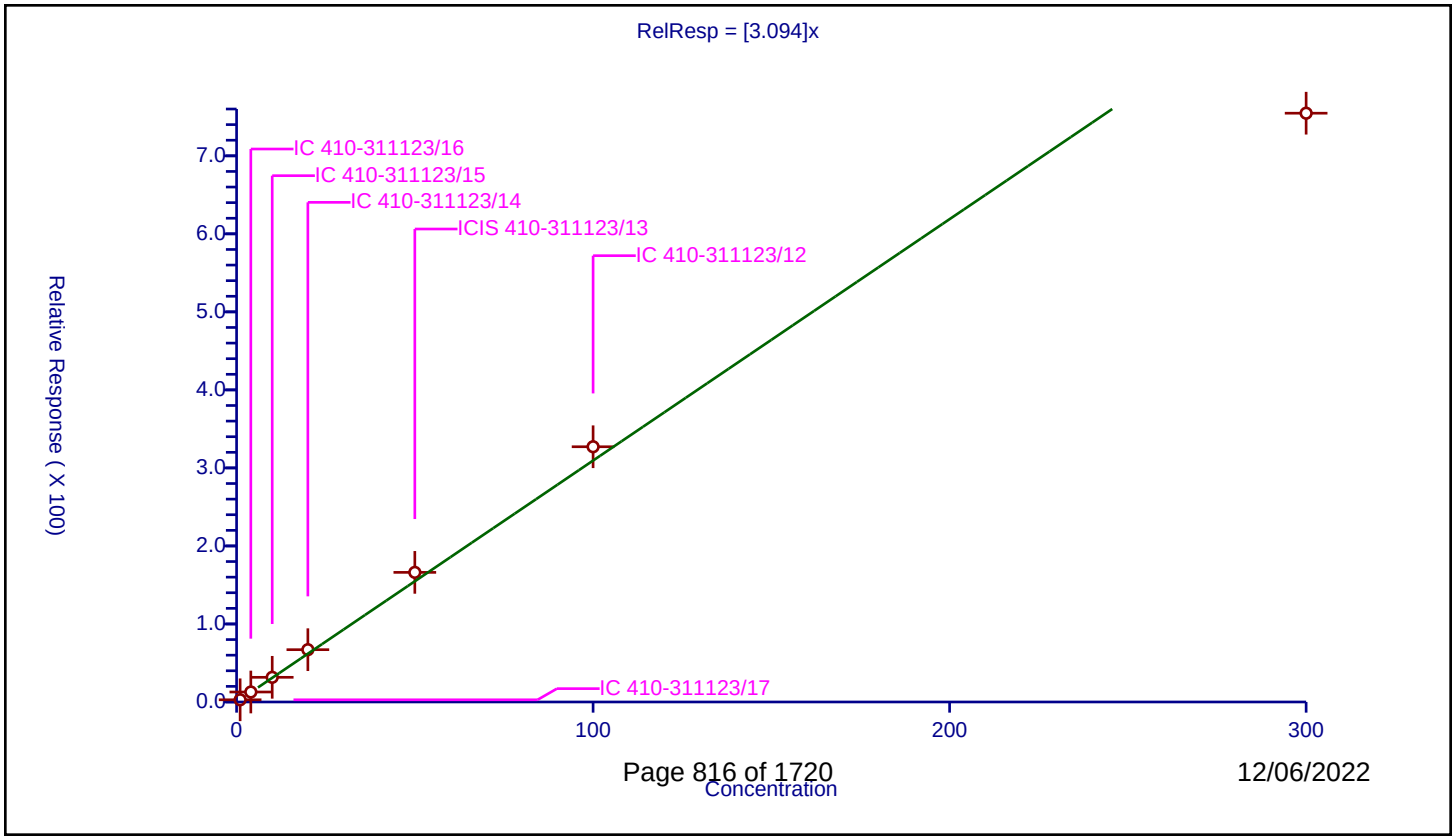
Curve Coefficients

Intercept:	0
Slope:	3.094

Error Coefficients

Standard Error:	4280000
Relative Standard Error:	9.9
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	2.835487	50.0	549112.0	2.835487	Y
2	IC 410-311123/16	4.0	12.808033	50.0	545599.0	3.202008	Y
3	IC 410-311123/15	10.0	31.617461	50.0	580113.0	3.161746	Y
4	IC 410-311123/14	20.0	67.025926	50.0	569458.0	3.351296	Y
5	ICIS 410-311123/13	50.0	166.107021	50.0	576823.0	3.32214	Y
6	IC 410-311123/12	100.0	327.132931	50.0	605880.0	3.271329	Y
7	IC 410-311123/11	300.0	754.645683	50.0	628153.0	2.515486	Y



Calibration / 1,3-Dichlorobenzene

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

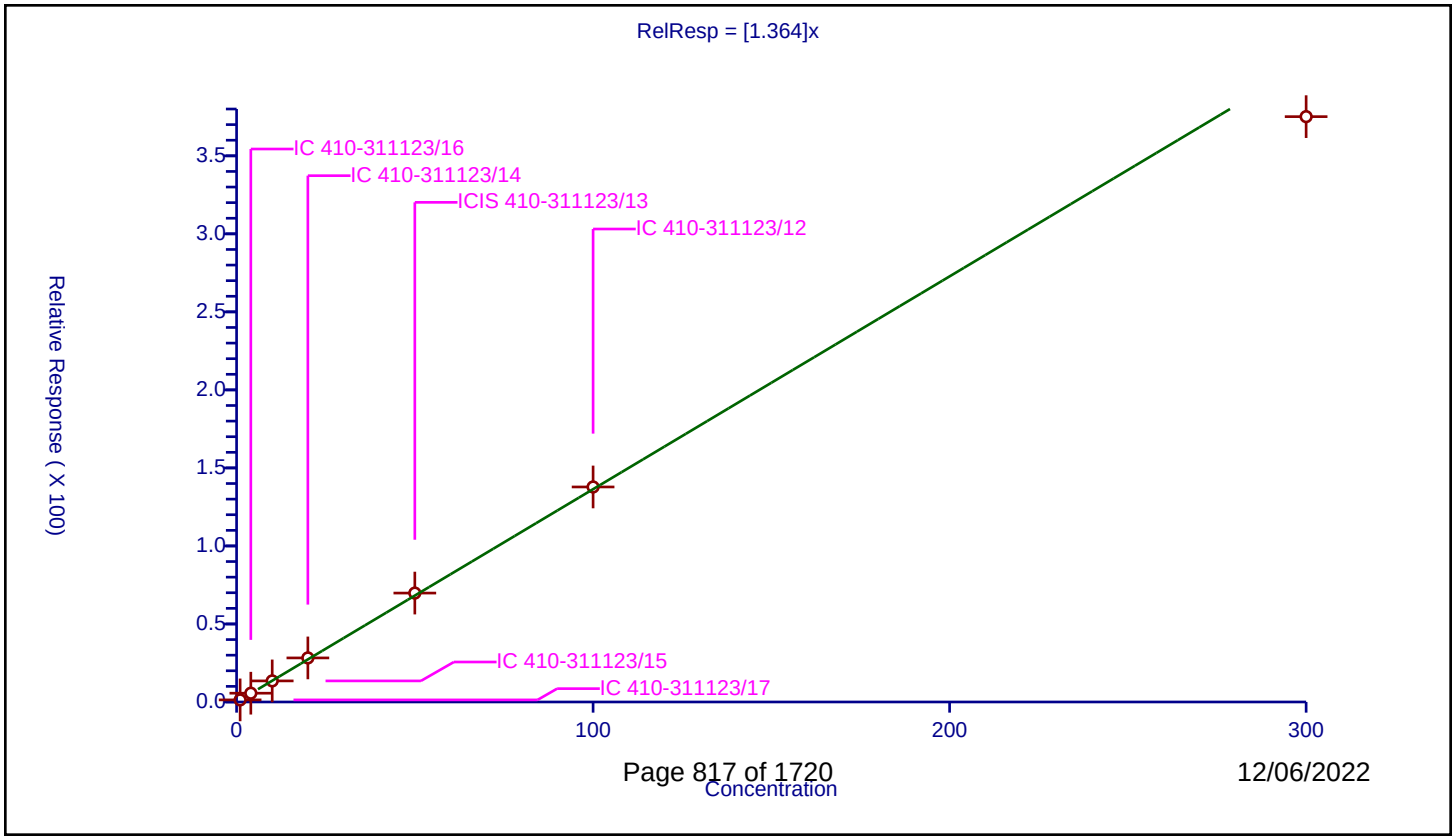
Curve Coefficients

Intercept:	0
Slope:	1.364

Error Coefficients

Standard Error:	2070000
Relative Standard Error:	4.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	1.348723	50.0	549112.0	1.348723	Y
2	IC 410-311123/16	4.0	5.635916	50.0	545599.0	1.408979	Y
3	IC 410-311123/15	10.0	13.517022	50.0	580113.0	1.351702	Y
4	IC 410-311123/14	20.0	28.244576	50.0	569458.0	1.412229	Y
5	ICIS 410-311123/13	50.0	69.807289	50.0	576823.0	1.396146	Y
6	IC 410-311123/12	100.0	137.793375	50.0	605880.0	1.377934	Y
7	IC 410-311123/11	300.0	375.115856	50.0	628153.0	1.250386	Y



Calibration / 4-Isopropyltoluene

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

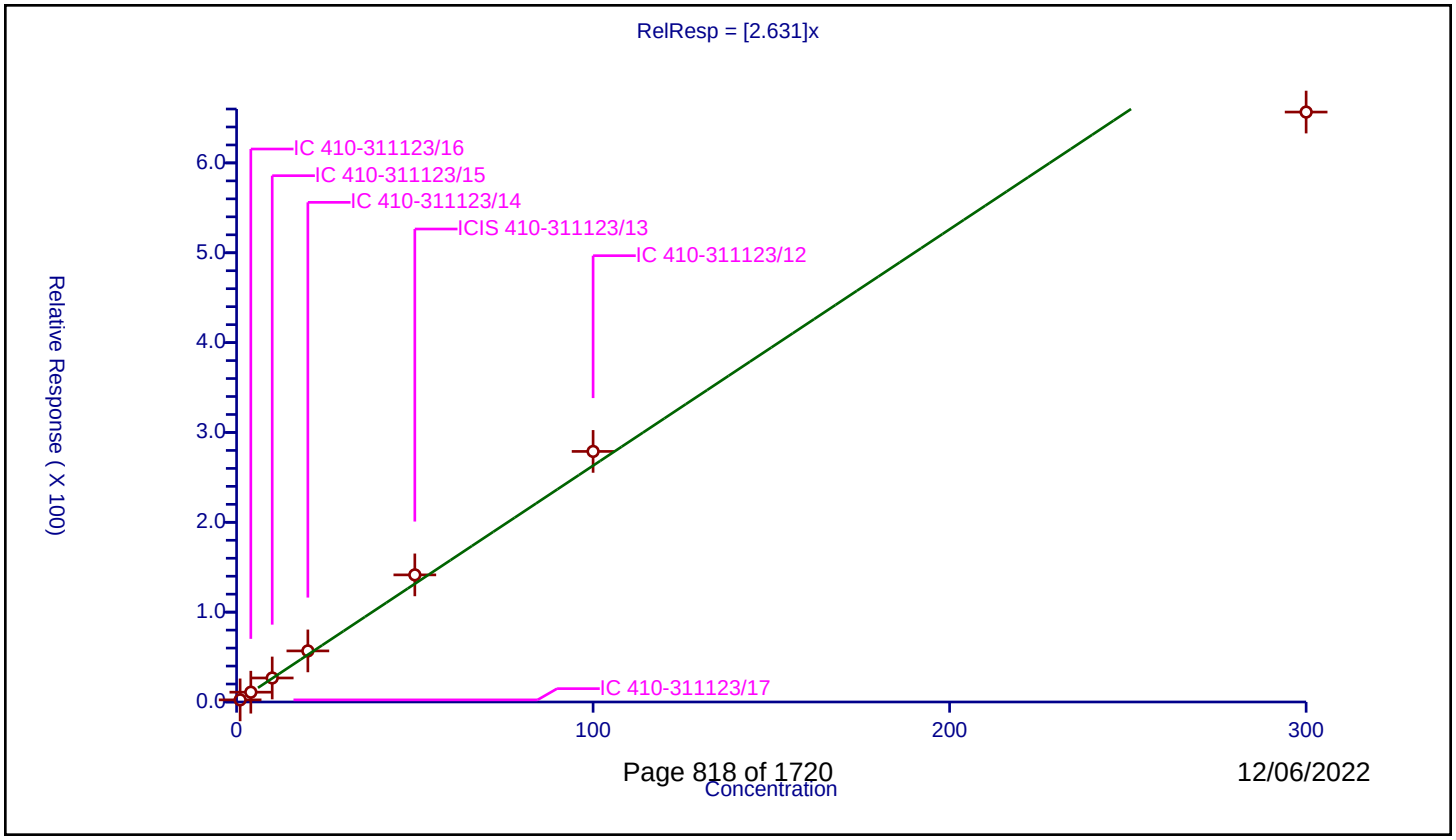
Curve Coefficients

Intercept:	0
Slope:	2.631

Error Coefficients

Standard Error:	3710000
Relative Standard Error:	9.6
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	2.368187	50.0	549112.0	2.368187	Y
2	IC 410-311123/16	4.0	10.893073	50.0	545599.0	2.723268	Y
3	IC 410-311123/15	10.0	26.71626	50.0	580113.0	2.671626	Y
4	IC 410-311123/14	20.0	56.863895	50.0	569458.0	2.843195	Y
5	ICIS 410-311123/13	50.0	141.486123	50.0	576823.0	2.829722	Y
6	IC 410-311123/12	100.0	278.911005	50.0	605880.0	2.78911	Y
7	IC 410-311123/11	300.0	656.621715	50.0	628153.0	2.188739	Y



Calibration / 1,4-Dichlorobenzene

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

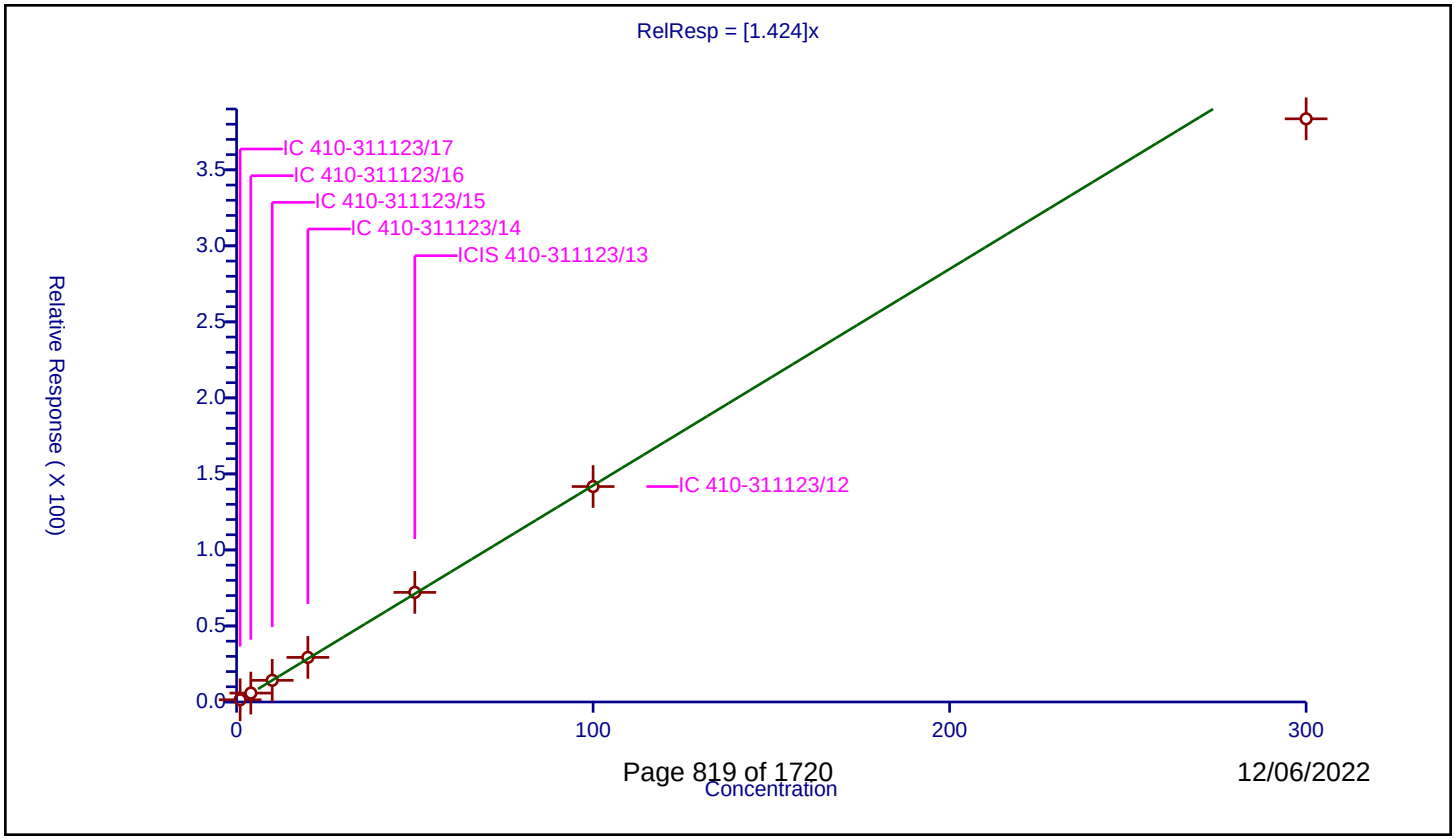
Curve Coefficients

Intercept:	0
Slope:	1.424

Error Coefficients

Standard Error:	2120000
Relative Standard Error:	4.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	1.471649	50.0	549112.0	1.471649	Y
2	IC 410-311123/16	4.0	5.864289	50.0	545599.0	1.466072	Y
3	IC 410-311123/15	10.0	14.254378	50.0	580113.0	1.425438	Y
4	IC 410-311123/14	20.0	29.331926	50.0	569458.0	1.466596	Y
5	ICIS 410-311123/13	50.0	72.098807	50.0	576823.0	1.441976	Y
6	IC 410-311123/12	100.0	141.698521	50.0	605880.0	1.416985	Y
7	IC 410-311123/11	300.0	383.542863	50.0	628153.0	1.278476	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

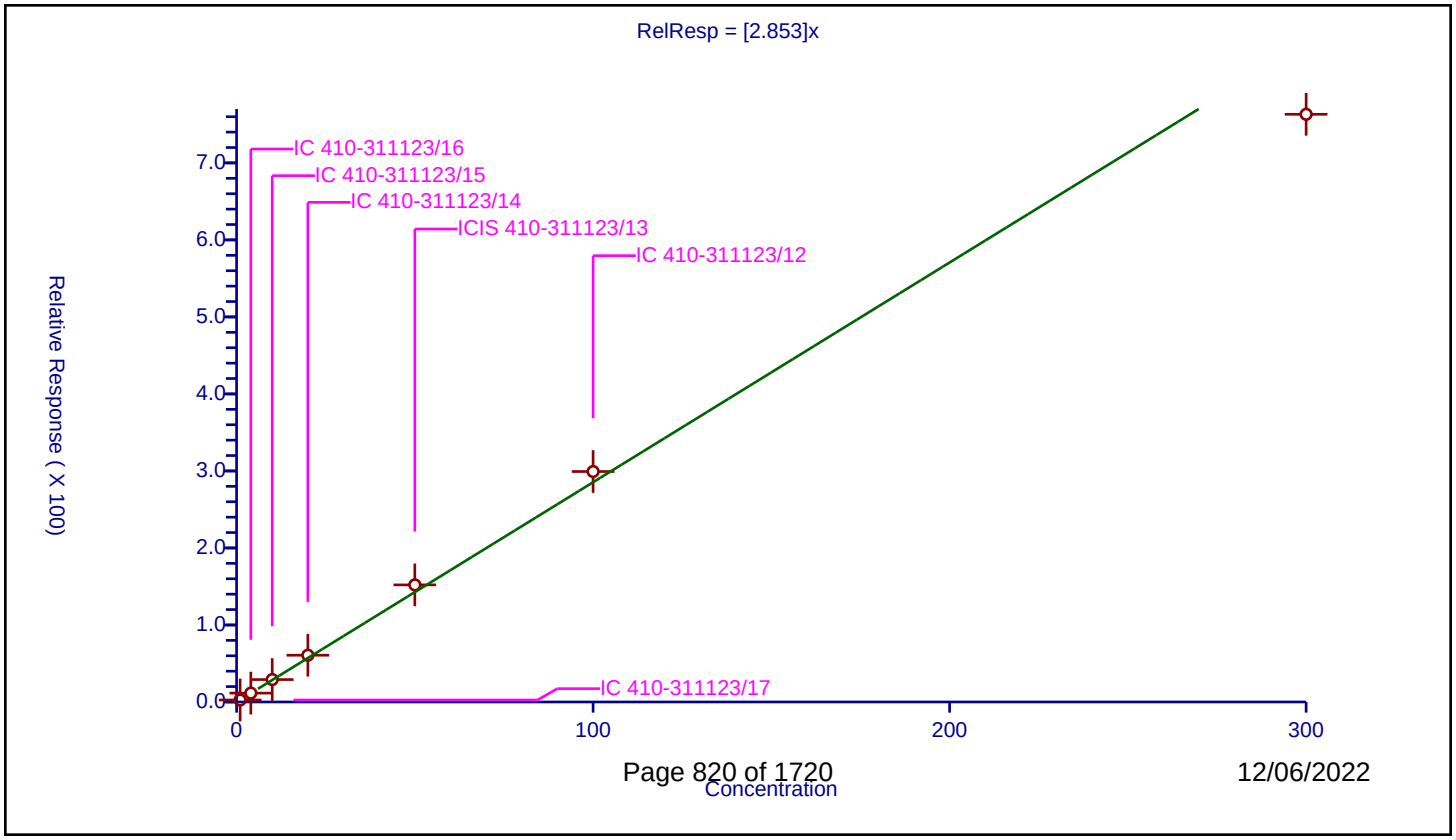
Curve Coefficients

Intercept:	0
Slope:	2.853

Error Coefficients

Standard Error:	4260000
Relative Standard Error:	7.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	2.569148	50.0	549112.0	2.569148	Y
2	IC 410-311123/16	4.0	11.525956	50.0	545599.0	2.881489	Y
3	IC 410-311123/15	10.0	29.093901	50.0	580113.0	2.90939	Y
4	IC 410-311123/14	20.0	60.711852	50.0	569458.0	3.035593	Y
5	ICIS 410-311123/13	50.0	152.060424	50.0	576823.0	3.041208	Y
6	IC 410-311123/12	100.0	299.264706	50.0	605880.0	2.992647	Y
7	IC 410-311123/11	300.0	763.156986	50.0	628153.0	2.543857	Y



Calibration / Benzyl chloride

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

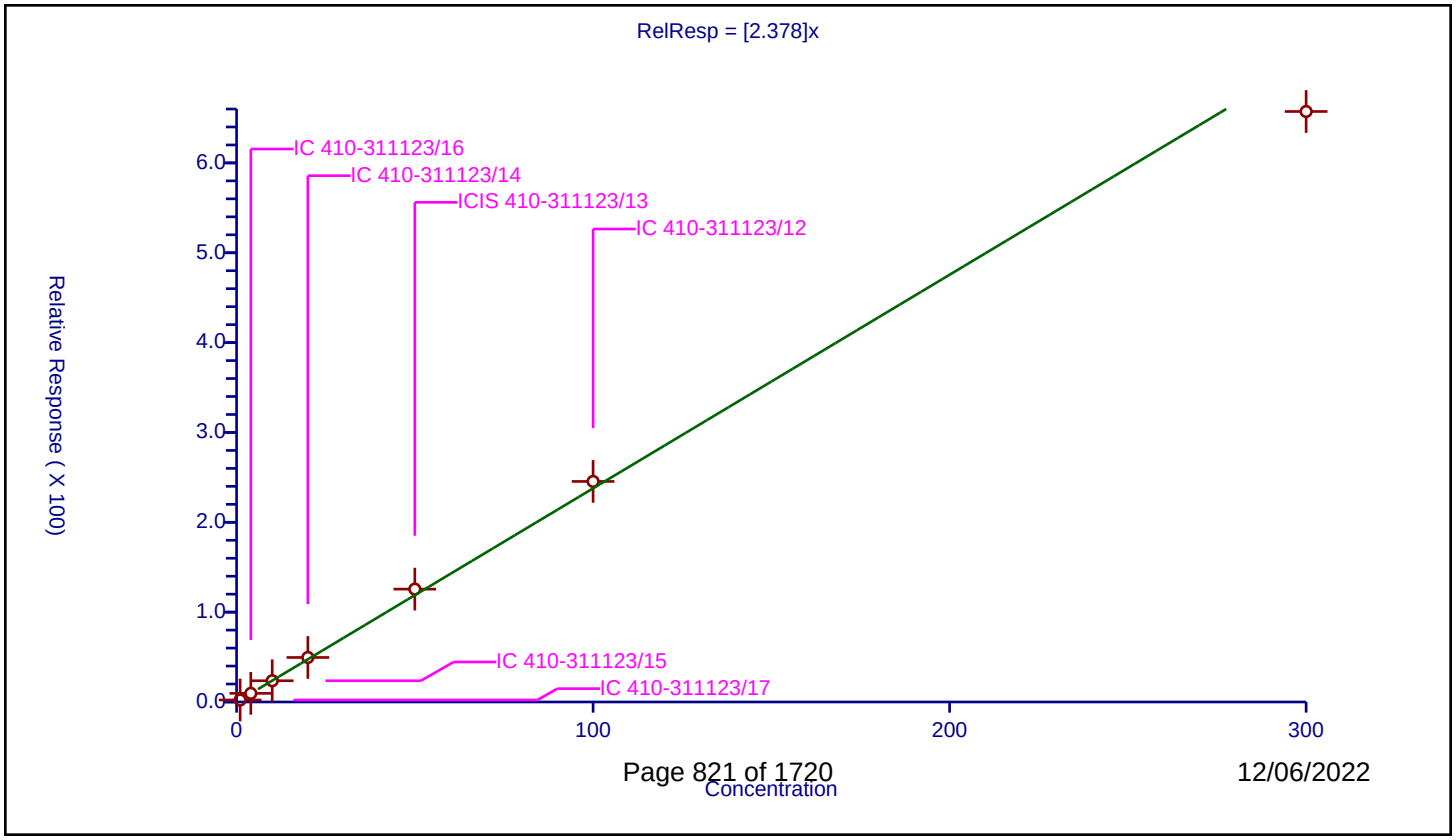
Curve Coefficients

Intercept:	0
Slope:	2.378

Error Coefficients

Standard Error:	3640000
Relative Standard Error:	5.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	2.240344	50.0	549112.0	2.240344	Y
2	IC 410-311123/16	4.0	9.613379	50.0	545599.0	2.403345	Y
3	IC 410-311123/15	10.0	23.640567	50.0	580113.0	2.364057	Y
4	IC 410-311123/14	20.0	49.560108	50.0	569458.0	2.478005	Y
5	ICIS 410-311123/13	50.0	125.624585	50.0	576823.0	2.512492	Y
6	IC 410-311123/12	100.0	245.48607	50.0	605880.0	2.454861	Y
7	IC 410-311123/11	300.0	657.233668	50.0	628153.0	2.190779	Y



Calibration / 1,3-Diethylbenzene

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

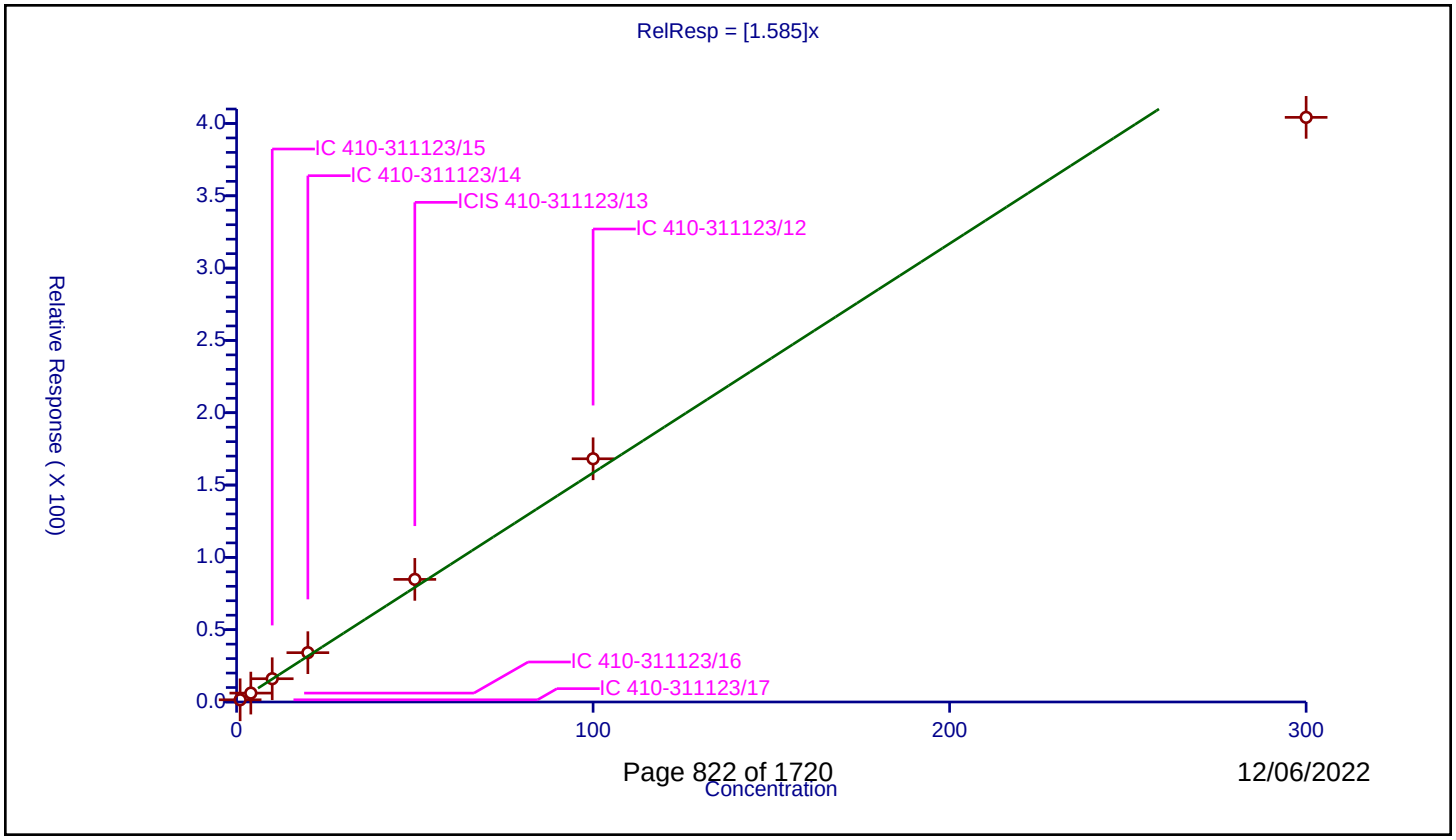
Curve Coefficients

Intercept:	0
Slope:	1.585

Error Coefficients

Standard Error:	2280000
Relative Standard Error:	8.1
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	1.518087	50.0	549112.0	1.518087	Y
2	IC 410-311123/16	4.0	6.14169	50.0	545599.0	1.535423	Y
3	IC 410-311123/15	10.0	16.091434	50.0	580113.0	1.609143	Y
4	IC 410-311123/14	20.0	34.109451	50.0	569458.0	1.705473	Y
5	ICIS 410-311123/13	50.0	84.772365	50.0	576823.0	1.695447	Y
6	IC 410-311123/12	100.0	168.163333	50.0	605880.0	1.681633	Y
7	IC 410-311123/11	300.0	404.230418	50.0	628153.0	1.347435	Y



Calibration / p-Diethylbenzene

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

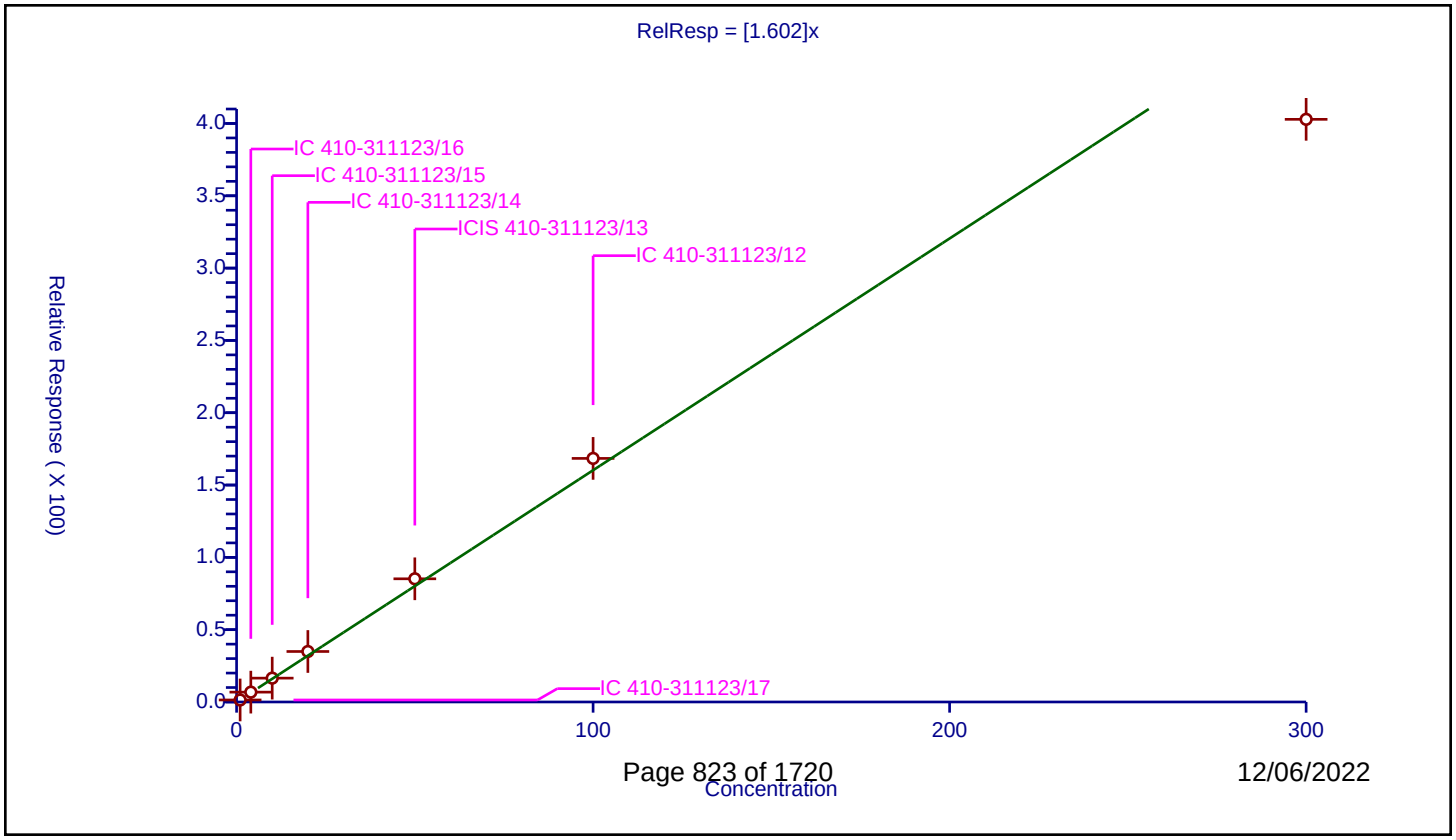
Curve Coefficients

Intercept:	0
Slope:	1.602

Error Coefficients

Standard Error:	2270000
Relative Standard Error:	10.3
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	1.388788	50.0	549112.0	1.388788	Y
2	IC 410-311123/16	4.0	6.806006	50.0	545599.0	1.701501	Y
3	IC 410-311123/15	10.0	16.501785	50.0	580113.0	1.650178	Y
4	IC 410-311123/14	20.0	34.906876	50.0	569458.0	1.745344	Y
5	ICIS 410-311123/13	50.0	85.18315	50.0	576823.0	1.703663	Y
6	IC 410-311123/12	100.0	168.423533	50.0	605880.0	1.684235	Y
7	IC 410-311123/11	300.0	402.861723	50.0	628153.0	1.342872	Y



Calibration / n-Butylbenzene

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

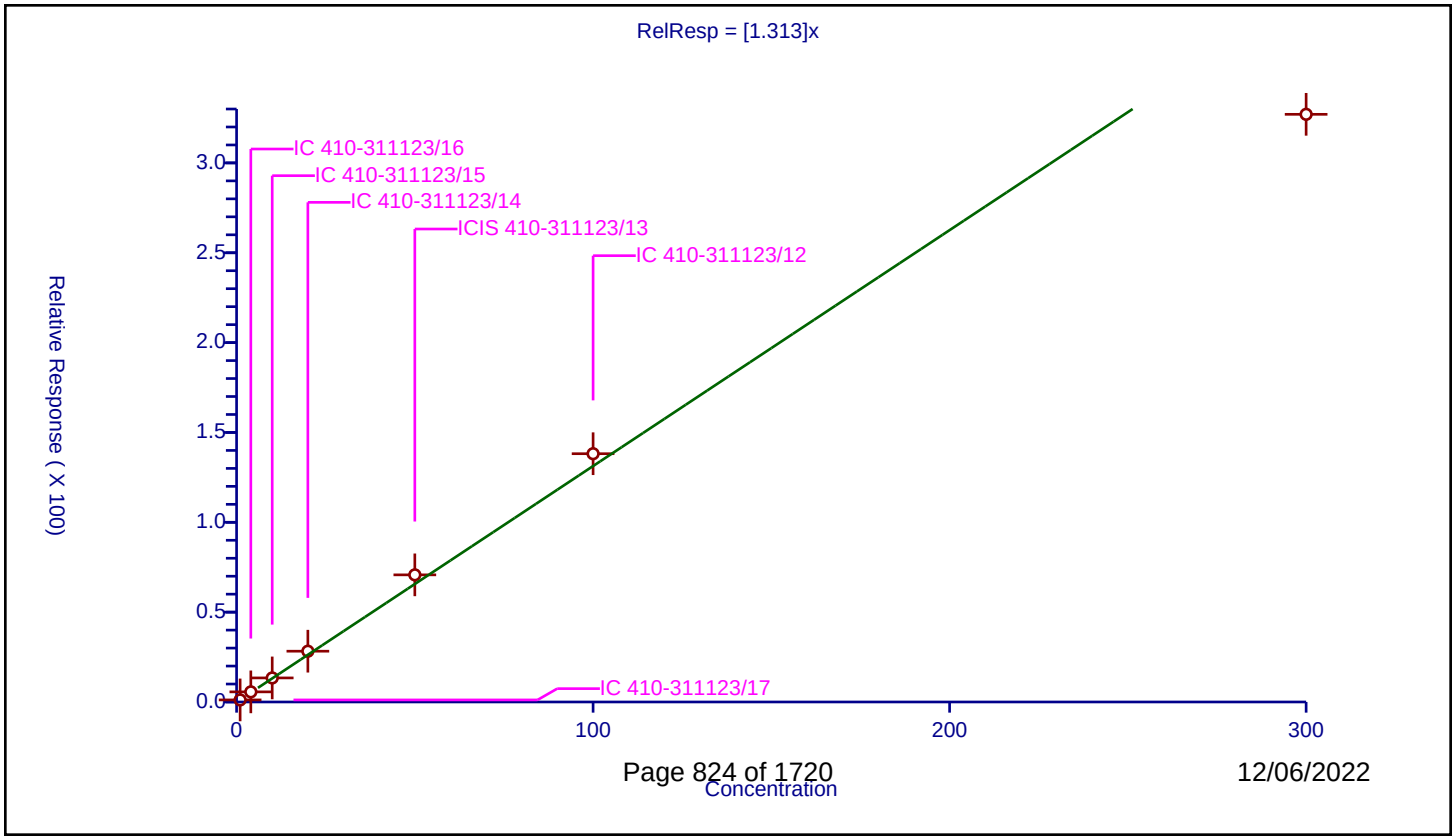
Curve Coefficients

Intercept:	0
Slope:	1.313

Error Coefficients

Standard Error:	1850000
Relative Standard Error:	10.5
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	1.144029	50.0	549112.0	1.144029	Y
2	IC 410-311123/16	4.0	5.632983	50.0	545599.0	1.408246	Y
3	IC 410-311123/15	10.0	13.386013	50.0	580113.0	1.338601	Y
4	IC 410-311123/14	20.0	28.256869	50.0	569458.0	1.412843	Y
5	ICIS 410-311123/13	50.0	70.75576	50.0	576823.0	1.415115	Y
6	IC 410-311123/12	100.0	138.170842	50.0	605880.0	1.381708	Y
7	IC 410-311123/11	300.0	327.048426	50.0	628153.0	1.090161	Y



Calibration / 1,2-Dichlorobenzene

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

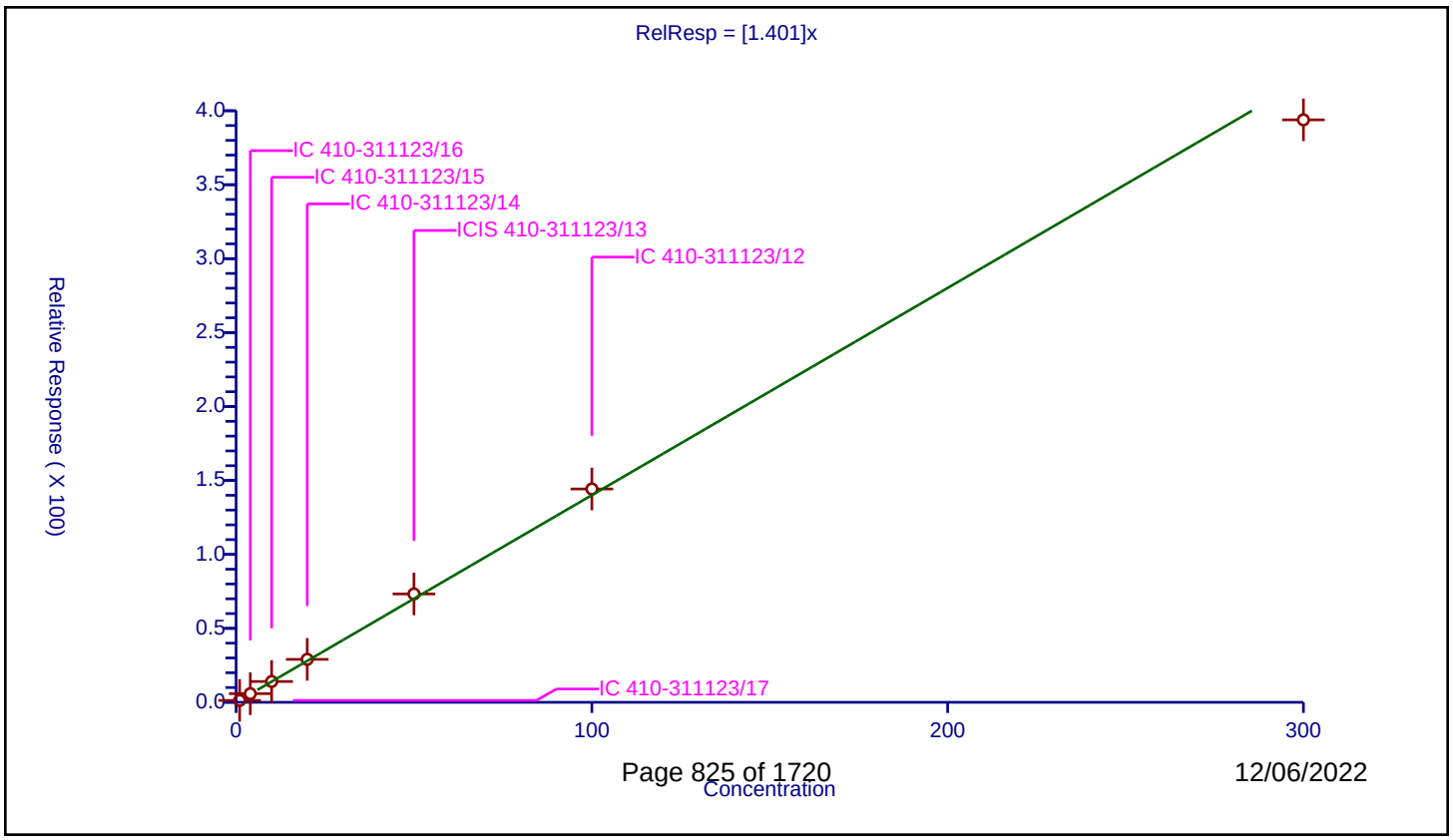
Curve Coefficients

Intercept:	0
Slope:	1.401

Error Coefficients

Standard Error:	2180000
Relative Standard Error:	5.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	1.269322	50.0	549112.0	1.269322	Y
2	IC 410-311123/16	4.0	5.828365	50.0	545599.0	1.457091	Y
3	IC 410-311123/15	10.0	14.0695	50.0	580113.0	1.40695	Y
4	IC 410-311123/14	20.0	29.045865	50.0	569458.0	1.452293	Y
5	ICIS 410-311123/13	50.0	73.275164	50.0	576823.0	1.465503	Y
6	IC 410-311123/12	100.0	144.250099	50.0	605880.0	1.442501	Y
7	IC 410-311123/11	300.0	393.84314	50.0	628153.0	1.31281	Y



Calibration / o-diethylbenzene

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

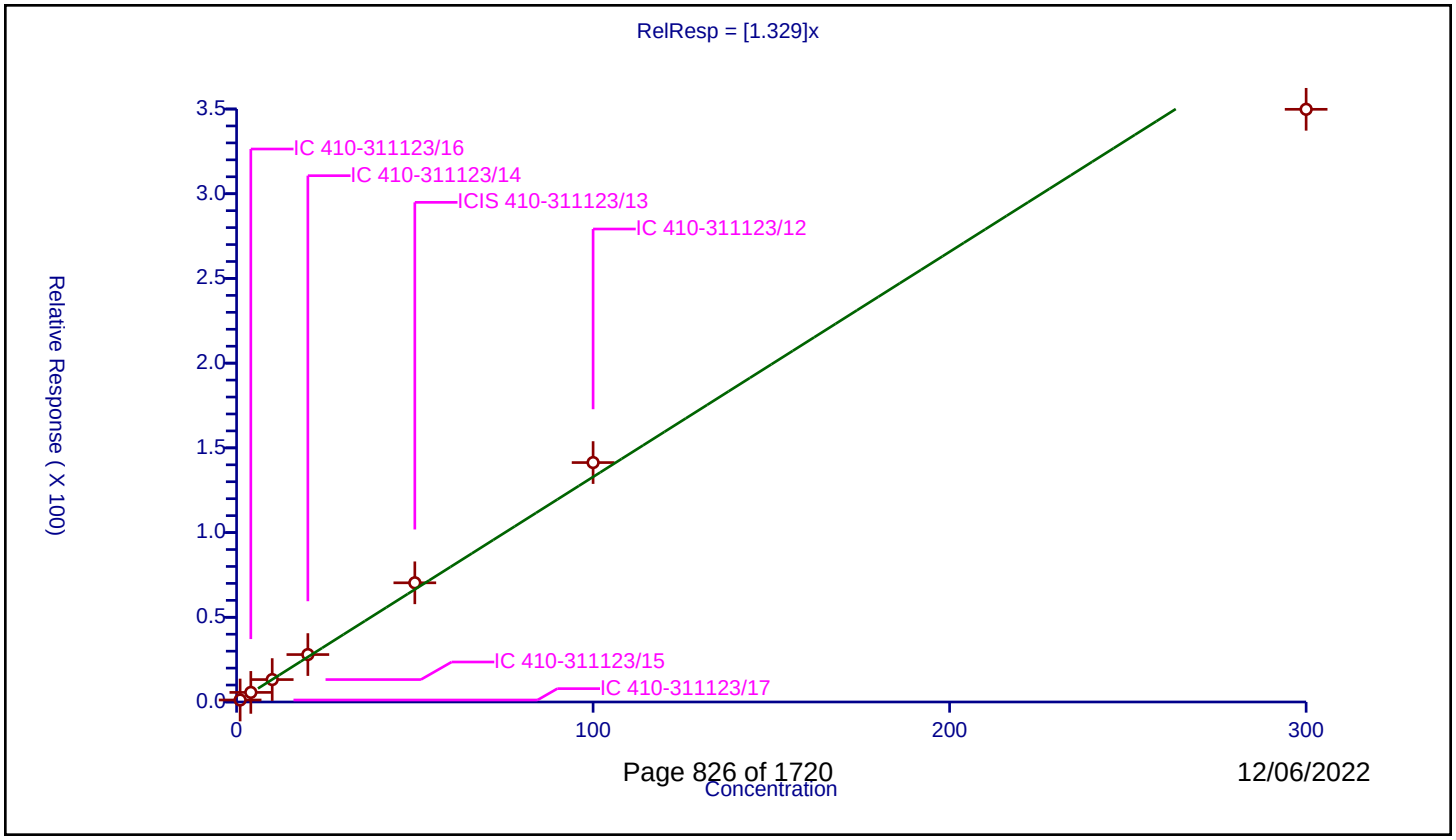
Curve Coefficients

Intercept:	0
Slope:	1.329

Error Coefficients

Standard Error:	1960000
Relative Standard Error:	8.4
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	1.1769	50.0	549112.0	1.1769	Y
2	IC 410-311123/16	4.0	5.658002	50.0	545599.0	1.4145	Y
3	IC 410-311123/15	10.0	13.226216	50.0	580113.0	1.322622	Y
4	IC 410-311123/14	20.0	27.997938	50.0	569458.0	1.399897	Y
5	ICIS 410-311123/13	50.0	70.342289	50.0	576823.0	1.406846	Y
6	IC 410-311123/12	100.0	141.321631	50.0	605880.0	1.413216	Y
7	IC 410-311123/11	300.0	349.833798	50.0	628153.0	1.166113	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

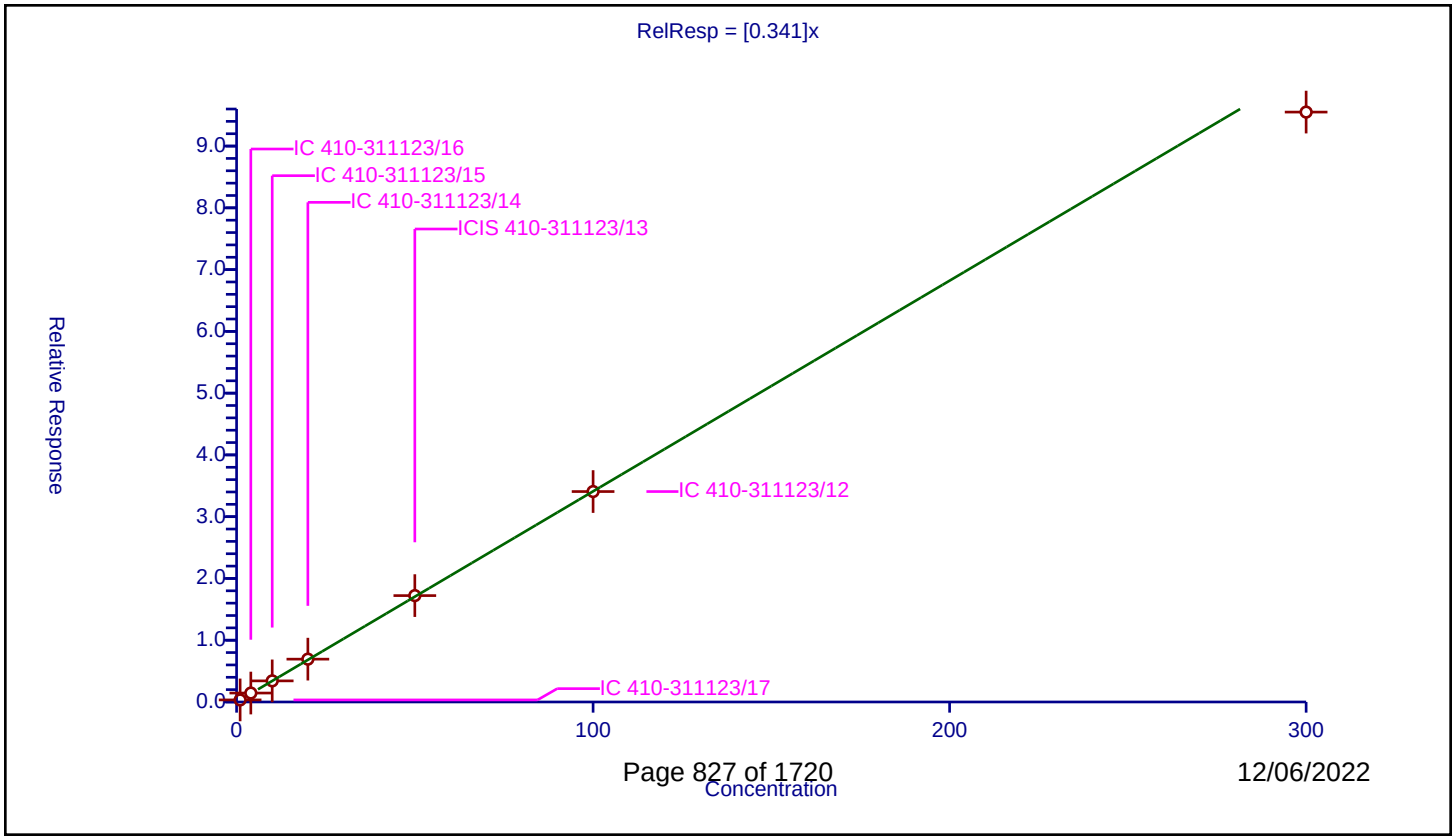
Curve Coefficients

Intercept:	0
Slope:	0.341

Error Coefficients

Standard Error:	526000
Relative Standard Error:	3.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.333539	50.0	549112.0	0.333539	Y
2	IC 410-311123/16	4.0	1.44685	50.0	545599.0	0.361713	Y
3	IC 410-311123/15	10.0	3.417265	50.0	580113.0	0.341727	Y
4	IC 410-311123/14	20.0	6.936684	50.0	569458.0	0.346834	Y
5	ICIS 410-311123/13	50.0	17.223654	50.0	576823.0	0.344473	Y
6	IC 410-311123/12	100.0	34.069783	50.0	605880.0	0.340698	Y
7	IC 410-311123/11	300.0	95.503245	50.0	628153.0	0.318344	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

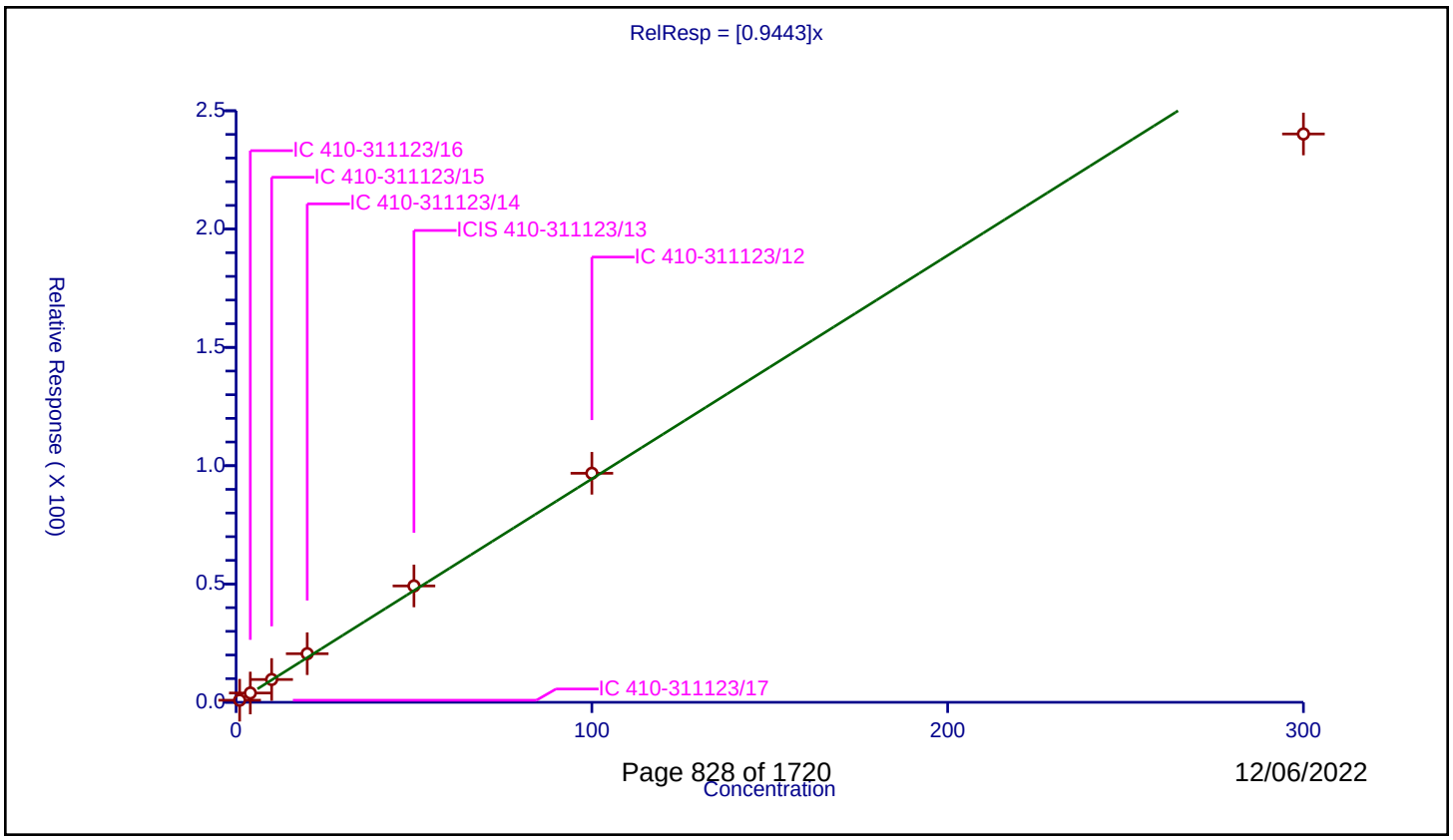
Curve Coefficients

Intercept:	0
Slope:	0.9443

Error Coefficients

Standard Error:	1350000
Relative Standard Error:	8.1
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.884246	50.0	549112.0	0.884246	Y
2	IC 410-311123/16	4.0	3.930451	50.0	545599.0	0.982613	Y
3	IC 410-311123/15	10.0	9.635106	50.0	580113.0	0.963511	Y
4	IC 410-311123/14	20.0	20.545501	50.0	569458.0	1.027275	Y
5	ICIS 410-311123/13	50.0	49.178084	50.0	576823.0	0.983562	Y
6	IC 410-311123/12	100.0	96.799366	50.0	605880.0	0.967994	Y
7	IC 410-311123/11	300.0	240.186229	50.0	628153.0	0.800621	Y



Calibration / 1,2,4-Trichlorobenzene

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

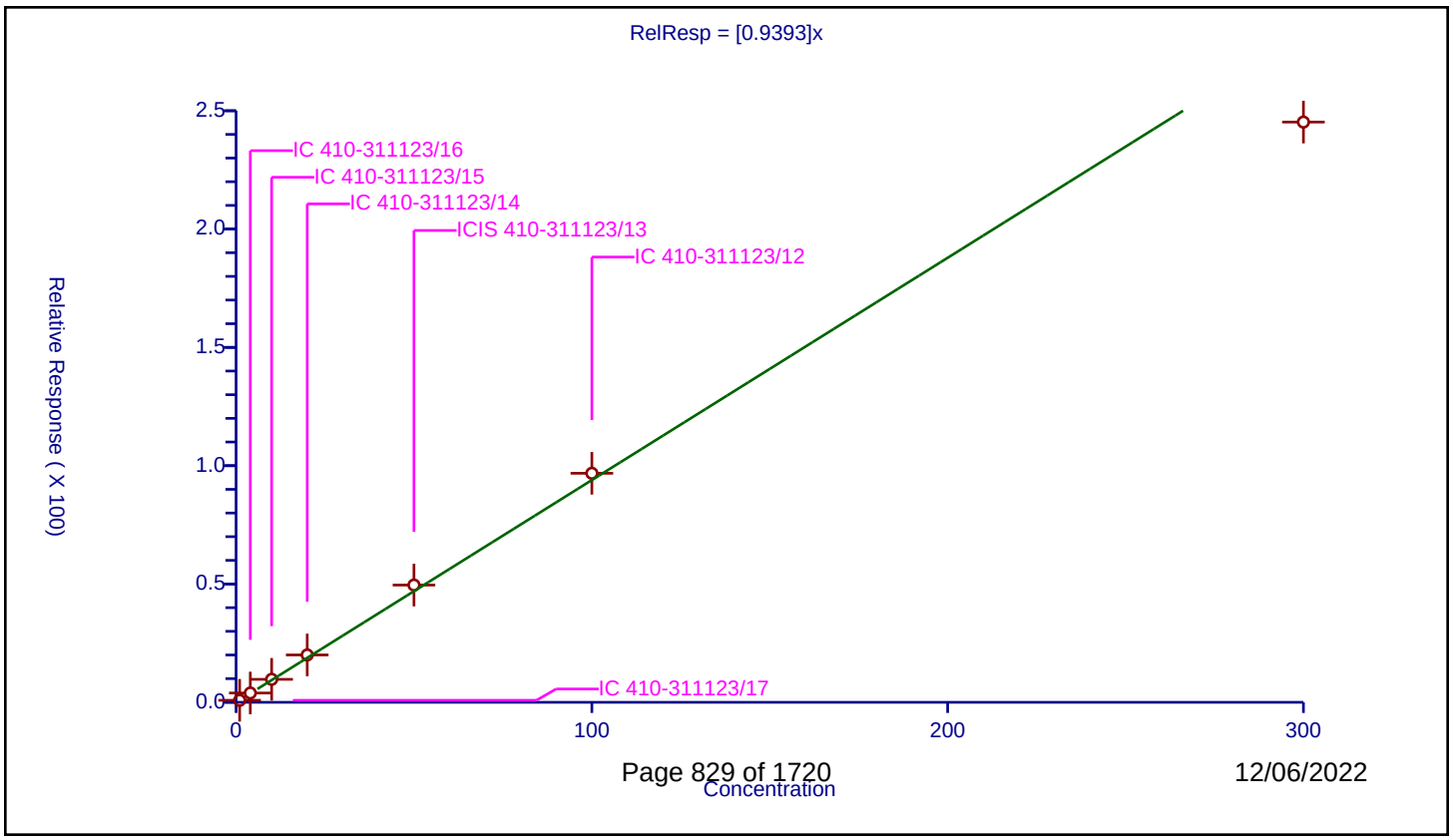
Curve Coefficients

Intercept:	0
Slope:	0.9393

Error Coefficients

Standard Error:	1370000
Relative Standard Error:	8.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.84582	50.0	549112.0	0.84582	Y
2	IC 410-311123/16	4.0	3.925685	50.0	545599.0	0.981421	Y
3	IC 410-311123/15	10.0	9.70311	50.0	580113.0	0.970311	Y
4	IC 410-311123/14	20.0	20.016489	50.0	569458.0	1.000824	Y
5	ICIS 410-311123/13	50.0	49.556536	50.0	576823.0	0.991131	Y
6	IC 410-311123/12	100.0	96.790536	50.0	605880.0	0.967905	Y
7	IC 410-311123/11	300.0	245.21876	50.0	628153.0	0.817396	Y



Calibration / Hexachlorobutadiene

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

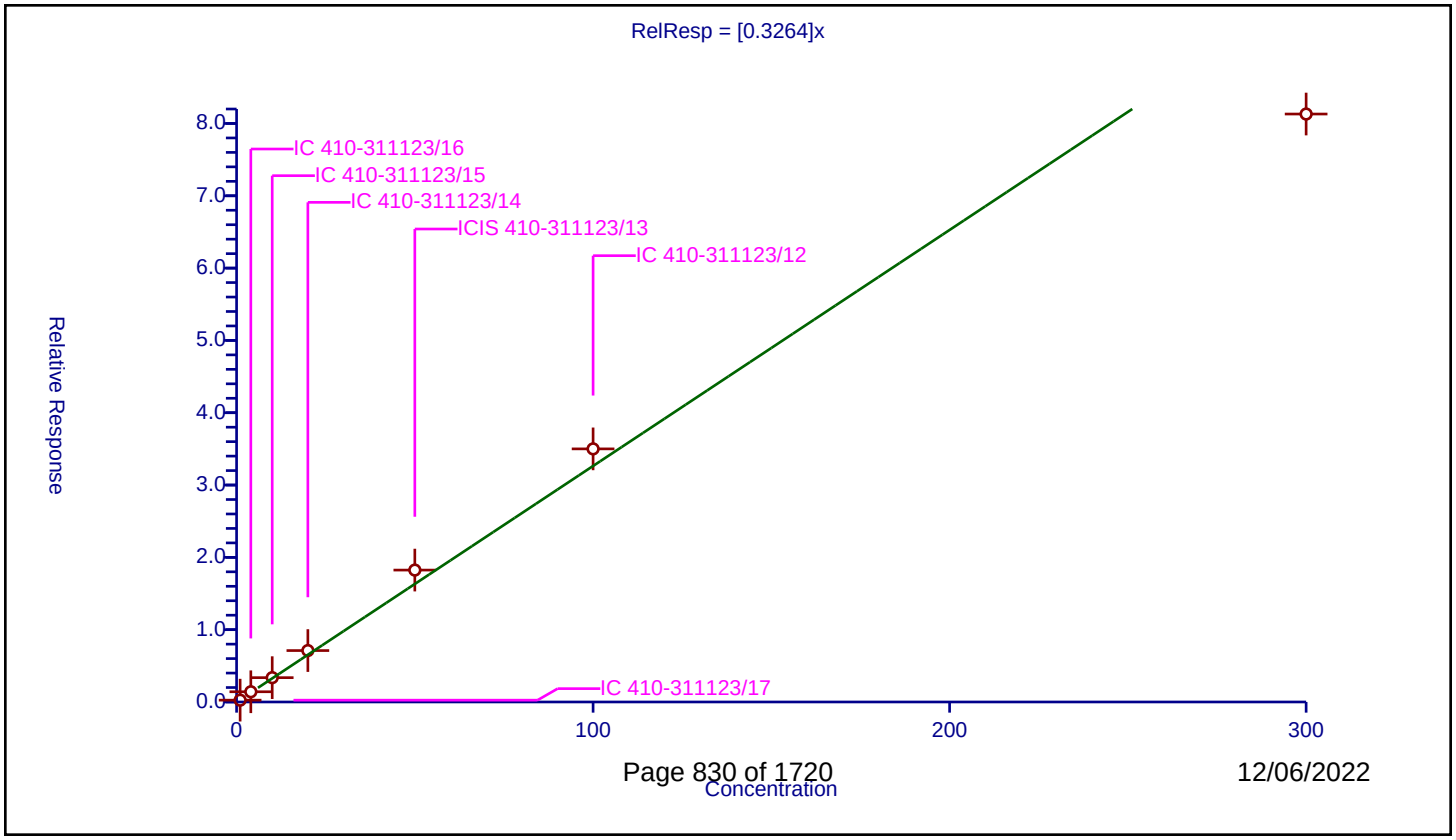
Curve Coefficients

Intercept:	0
Slope:	0.3264

Error Coefficients

Standard Error:	461000
Relative Standard Error:	13.8
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.253045	50.0	549112.0	0.253045	Y
2	IC 410-311123/16	4.0	1.414775	50.0	545599.0	0.353694	Y
3	IC 410-311123/15	10.0	3.364689	50.0	580113.0	0.336469	Y
4	IC 410-311123/14	20.0	7.111587	50.0	569458.0	0.355579	Y
5	ICIS 410-311123/13	50.0	18.241038	50.0	576823.0	0.364821	Y
6	IC 410-311123/12	100.0	35.00132	50.0	605880.0	0.350013	Y
7	IC 410-311123/11	300.0	81.307659	50.0	628153.0	0.271026	Y



Calibration / Naphthalene

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

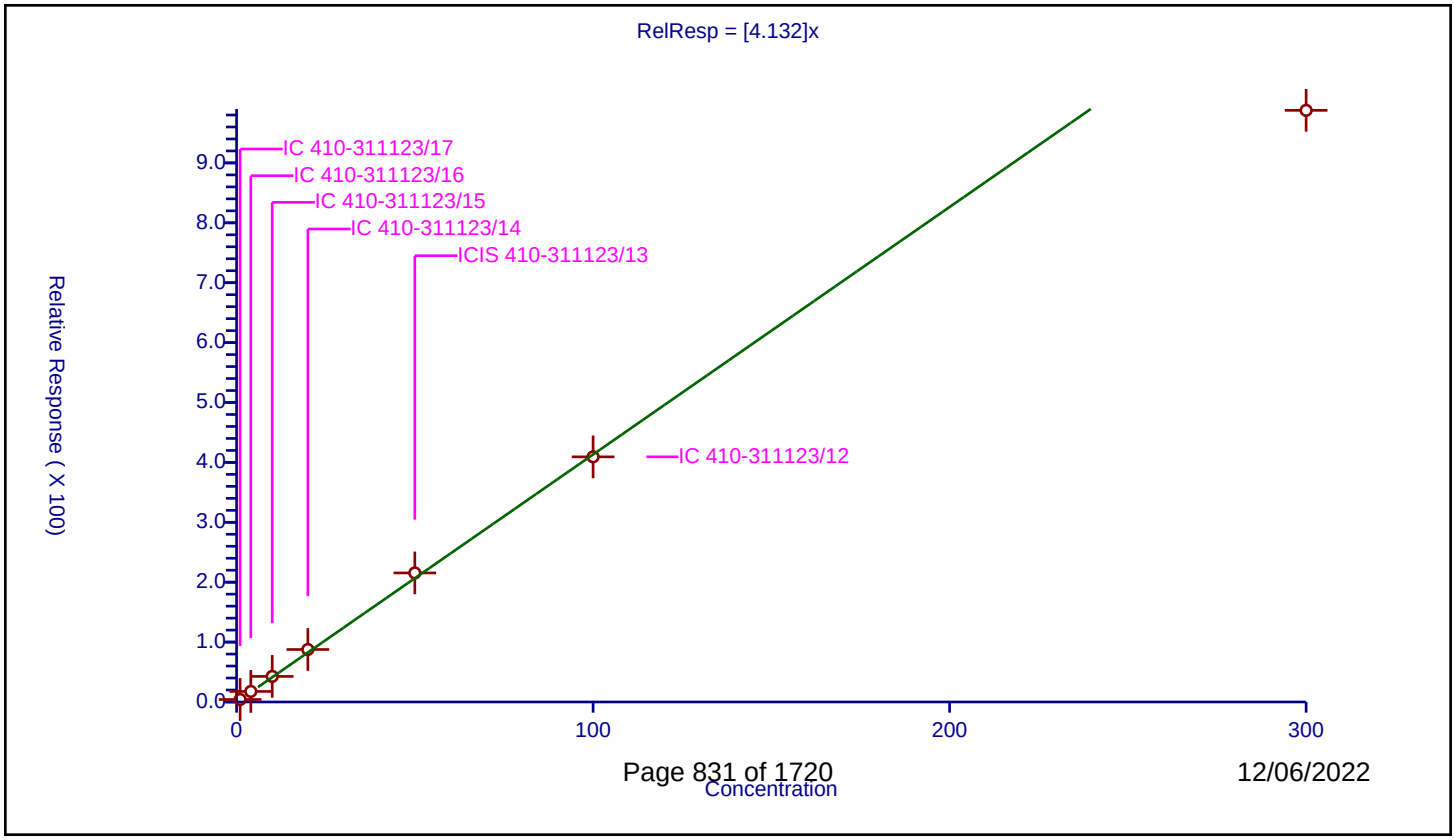
Curve Coefficients

Intercept:	0
Slope:	4.132

Error Coefficients

Standard Error:	5570000
Relative Standard Error:	9.3
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	4.171735	50.0	549112.0	4.171735	Y
2	IC 410-311123/16	4.0	17.614768	50.0	545599.0	4.403692	Y
3	IC 410-311123/15	10.0	42.728399	50.0	580113.0	4.27284	Y
4	IC 410-311123/14	20.0	87.635524	50.0	569458.0	4.381776	Y
5	ICIS 410-311123/13	50.0	215.464623	50.0	576823.0	4.309292	Y
6	IC 410-311123/12	100.0	409.247623	50.0	605880.0	4.092476	Y
7	IC 410-311123/11	300.0	987.758715	50.0	628153.0	3.292529	Y



Calibration / 1,2,3-Trichlorobenzene

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

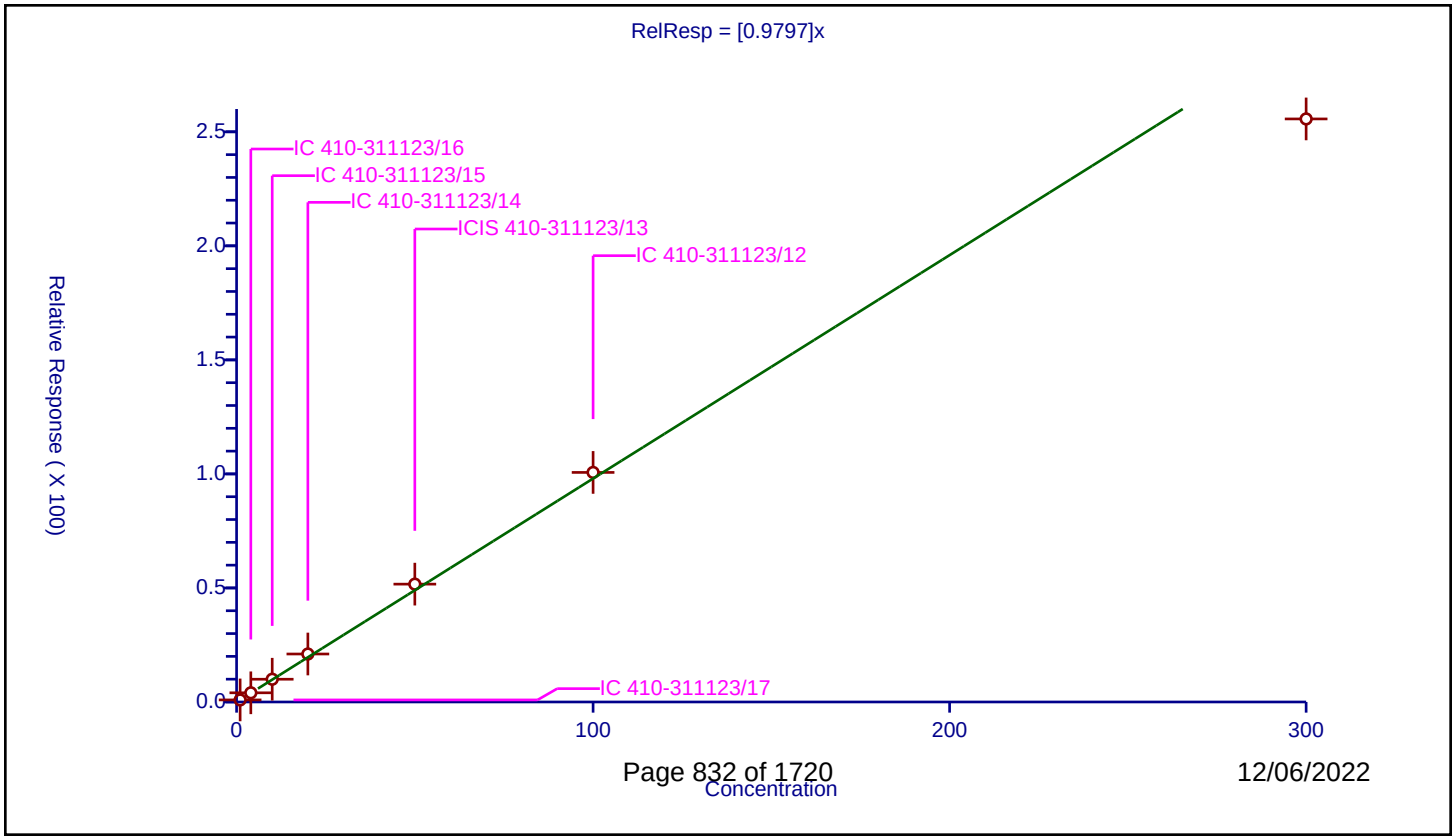
Curve Coefficients

Intercept:	0
Slope:	0.9797

Error Coefficients

Standard Error:	1430000
Relative Standard Error:	7.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	0.908285	50.0	549112.0	0.908285	Y
2	IC 410-311123/16	4.0	4.027042	50.0	545599.0	1.00676	Y
3	IC 410-311123/15	10.0	9.983055	50.0	580113.0	0.998306	Y
4	IC 410-311123/14	20.0	21.045801	50.0	569458.0	1.05229	Y
5	ICIS 410-311123/13	50.0	51.669663	50.0	576823.0	1.033393	Y
6	IC 410-311123/12	100.0	100.654998	50.0	605880.0	1.00655	Y
7	IC 410-311123/11	300.0	255.650136	50.0	628153.0	0.852167	Y



Calibration / 2-Methylnaphthalene

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

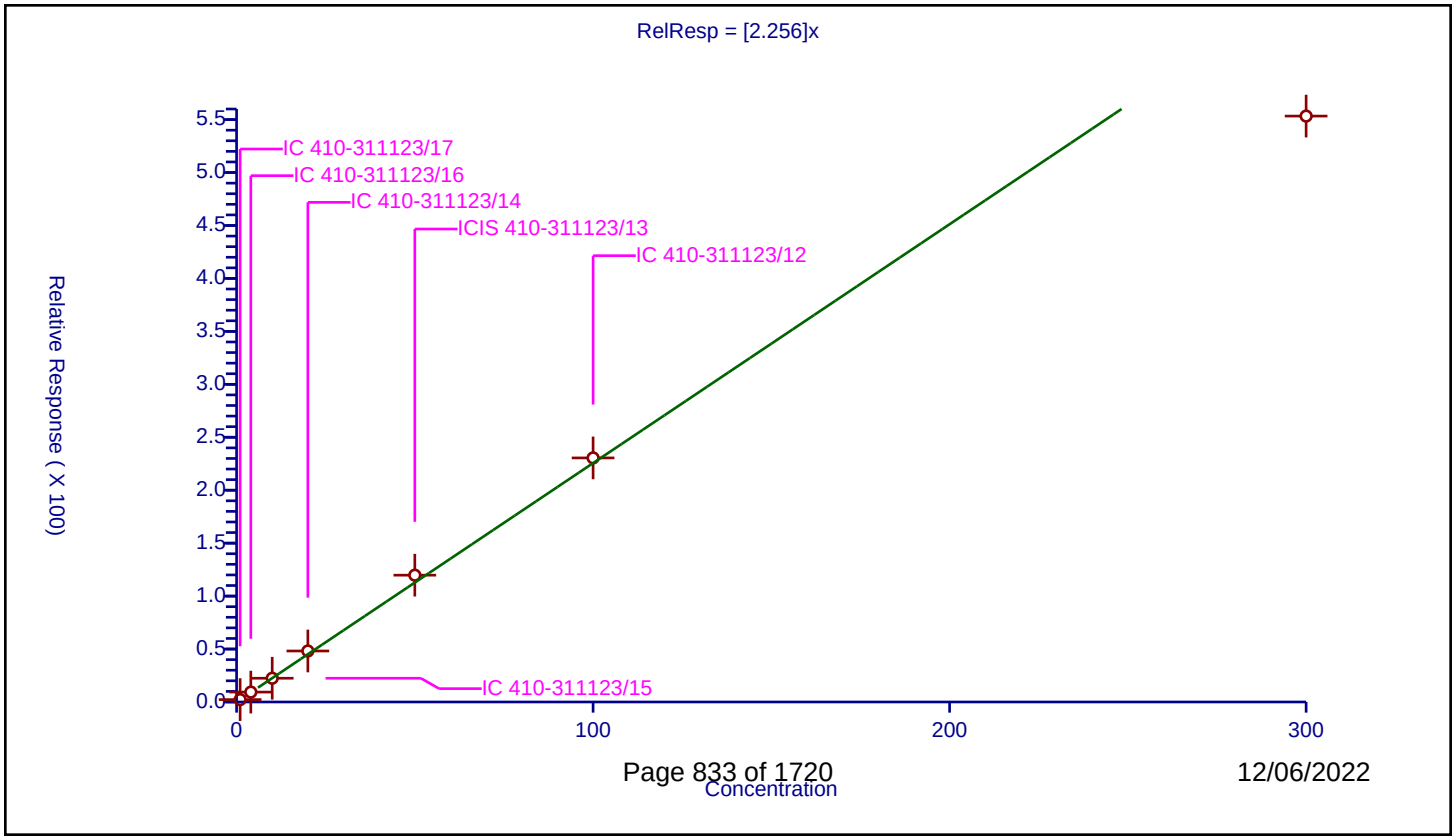
Curve Coefficients

Intercept:	0
Slope:	2.256

Error Coefficients

Standard Error:	3120000
Relative Standard Error:	8.5
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-311123/17	1.0	2.257554	50.0	549112.0	2.257554	Y
2	IC 410-311123/16	4.0	9.355406	50.0	545599.0	2.338851	Y
3	IC 410-311123/15	10.0	22.418908	50.0	580113.0	2.241891	Y
4	IC 410-311123/14	20.0	48.174229	50.0	569458.0	2.408711	Y
5	ICIS 410-311123/13	50.0	119.760221	50.0	576823.0	2.395204	Y
6	IC 410-311123/12	100.0	230.501584	50.0	605880.0	2.305016	Y
7	IC 410-311123/11	300.0	553.314718	50.0	628153.0	1.844382	Y



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-106360-1

SDG No.:

Lab Sample ID: ICV 410-311123/19 Calibration Date: 10/27/2022 18:25

Instrument ID: 9137 Calib Start Date: 10/27/2022 15:47

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 10/27/2022 17:46

Lab File ID: WC27X18.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	0.6380	0.4984	0.1000	15.6	20.0	-21.9	30.0
Chloromethane	Ave	0.6636	0.5608	0.1000	16.9	20.0	-15.5	30.0
Vinyl chloride	Ave	0.6308	0.5852	0.1000	18.6	20.0	-7.2	30.0
1,3-Butadiene	Ave	0.6326	0.5795		18.3	20.0	-8.4	30.0
Bromomethane	Ave	0.3626	0.3262	0.1000	18.0	20.0	-10.1	30.0
Chloroethane	Ave	0.3145	0.2981	0.1000	19.0	20.0	-5.2	30.0
Dichlorofluoromethane	Ave	0.7258	0.7319		20.2	20.0	0.8	30.0
n-Pentane	Ave	0.5327	0.5175		19.4	20.0	-2.9	30.0
Trichlorofluoromethane	Ave	0.6276	0.5626	0.1000	17.9	20.0	-10.4	30.0
Freon 123a	Ave	0.4281	0.3998		18.7	20.0	-6.6	30.0
Ethanol	Ave	0.0940	0.0905		963	1000	-3.7	30.0
Acrolein	Ave	1.151	1.143		149	150	-0.7	30.0
1,1-Dichloroethene	Ave	0.2856	0.2791	0.1000	19.5	20.0	-2.3	30.0
Freon 113	Ave	0.3044	0.3289	0.1000	21.6	20.0	8.1	30.0
Acetone	Ave	0.6427	0.6212	0.1000	242	250	-3.4	30.0
2-Propanol	Ave	0.6972	0.7234		156	150	3.8	30.0
Methyl iodide	Ave	0.4340	0.4499		20.7	20.0	3.7	30.0
Carbon disulfide	Ave	0.8622	0.8830	0.1000	20.5	20.0	2.4	30.0
Allyl chloride	Ave	0.5076	0.5325		21.0	20.0	4.9	30.0
Methyl acetate	Ave	0.4149	0.4081	0.1000	19.7	20.0	-1.6	30.0
Methylene Chloride	Ave	0.3195	0.3124	0.1000	19.6	20.0	-2.2	30.0
t-Butyl alcohol	Ave	1.148	1.174		205	200	2.3	30.0
Acrylonitrile	Ave	0.2207	0.2182		98.8	100	-1.2	30.0
trans-1,2-Dichloroethene	Ave	0.2849	0.2763	0.1000	19.4	20.0	-3.0	30.0
Methyl tertiary butyl ether	Ave	0.9849	0.9719	0.1000	19.7	20.0	-1.3	30.0
n-Hexane	Ave	0.4162	0.4050		19.5	20.0	-2.7	30.0
1,1-Dichloroethane	Ave	0.5260	0.5182	0.2000	19.7	20.0	-1.5	30.0
di-Isopropyl ether	Ave	1.053	1.046		19.9	20.0	-0.7	30.0
2-Chloro-1,3-butadiene	Ave	0.4859	0.4948		20.4	20.0	1.8	30.0
Ethyl t-butyl ether	Ave	0.998	1.001		20.1	20.0	0.3	30.0
cis-1,2-Dichloroethene	Ave	0.3101	0.3173	0.1000	20.5	20.0	2.3	30.0
2-Butanone	Ave	0.3155	0.2992	0.1000	237	250	-5.2	30.0
2,2-Dichloropropane	Ave	0.5222	0.5401		20.7	20.0	3.4	30.0
Propionitrile	Ave	0.9772	0.9745		150	150	-0.3	30.0
Methacrylonitrile	Ave	0.2008	0.1990		149	150	-0.9	30.0
Bromochloromethane	Ave	0.1442	0.1484		20.6	20.0	2.9	30.0
Tetrahydrofuran	Ave	0.7578	0.7891		104	100	4.1	30.0
Chloroform	Ave	0.4911	0.4695	0.2000	19.1	20.0	-4.4	30.0
1,1,1-Trichloroethane	Ave	0.4854	0.4860	0.1000	20.0	20.0	0.1	30.0
Cyclohexane	Ave	0.6366	0.6464	0.1000	20.3	20.0	1.5	30.0
1,1-Dichloropropene	Ave	0.4197	0.4118		19.6	20.0	-1.9	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-106360-1

SDG No.:

Lab Sample ID: ICV 410-311123/19 Calibration Date: 10/27/2022 18:25

Instrument ID: 9137 Calib Start Date: 10/27/2022 15:47

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 10/27/2022 17:46

Lab File ID: WC27X18.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	0.3770	0.3775	0.1000	20.0	20.0	0.1	30.0
Isobutyl alcohol	Ave	0.3325	0.3390		510	500	2.0	30.0
Benzene	Ave	1.225	1.232	0.5000	20.1	20.0	0.6	30.0
1,2-Dichloroethane	Ave	0.3772	0.3790	0.1000	20.1	20.0	0.5	30.0
t-Amyl methyl ether	Ave	0.9597	0.9661		20.1	20.0	0.7	30.0
n-Heptane	Ave	0.3818	0.3701		19.4	20.0	-3.1	30.0
n-Butanol	Ave	0.2873	0.2916		1010	1000	1.5	30.0
Trichloroethene	Ave	0.2973	0.2937	0.2000	19.8	20.0	-1.2	30.0
Methylcyclohexane	Ave	0.5063	0.5100	0.1000	20.1	20.0	0.7	30.0
1,2-Dichloropropane	Ave	0.3230	0.3303	0.1000	20.5	20.0	2.3	30.0
t-Amyl ethyl ether	Ave	0.4380	0.4259		19.5	20.0	-2.7	30.0
Dibromomethane	Ave	0.1901	0.1874		19.7	20.0	-1.4	30.0
Methyl methacrylate	Ave	0.3123	0.2879		18.4	20.0	-7.8	30.0
1,4-Dioxane	Ave	0.0676	0.0710	0.0050	525	500	5.1	30.0
Bromodichloromethane	Ave	0.3558	0.3570	0.2000	20.1	20.0	0.3	30.0
2-Nitropropane	Ave	1.393	1.366		19.6	20.0	-1.9	30.0
2-Chloroethyl vinyl ether	Ave	0.2366	0.2342		19.8	20.0	-1.0	30.0
cis-1,3-Dichloropropene	Ave	0.4669	0.4544	0.2000	19.5	20.0	-2.7	30.0
4-Methyl-2-pentanone	Ave	0.6075	0.5960	0.1000	245	250	-1.9	30.0
Toluene	Ave	0.9611	1.009	0.4000	21.0	20.0	5.0	30.0
trans-1,3-Dichloropropene	Ave	0.5602	0.5698	0.1000	20.3	20.0	1.7	30.0
Ethyl methacrylate	Ave	0.6441	0.6822		21.2	20.0	5.9	30.0
1,1,2-Trichloroethane	Ave	0.3567	0.3647	0.1000	20.4	20.0	2.2	30.0
Tetrachloroethene	Ave	0.3677	0.3940	0.2000	21.4	20.0	7.2	30.0
1,3-Dichloropropane	Ave	0.5970	0.6190		20.7	20.0	3.7	30.0
2-Hexanone	Ave	0.5439	0.5734	0.1000	264	250	5.4	30.0
Dibromochloromethane	Ave	0.3381	0.3453		20.4	20.0	2.1	30.0
1,2-Dibromoethane	Ave	0.3557	0.3704	0.1000	20.8	20.0	4.1	30.0
1-Chlorohexane	Ave	0.5181	0.5361		20.7	20.0	3.5	30.0
Chlorobenzene	Ave	0.9772	1.020	0.5000	20.9	20.0	4.3	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3673	0.3739		20.4	20.0	1.8	30.0
Ethylbenzene	Ave	1.812	1.965	0.1000	21.7	20.0	8.4	30.0
m&p-Xylene	Ave	0.6810	0.7295	0.1000	42.8	40.0	7.1	30.0
o-Xylene	Ave	0.7175	0.7567	0.3000	21.1	20.0	5.5	30.0
Styrene	Ave	1.117	1.198	0.3000	21.5	20.0	7.3	30.0
Bromoform	Ave	0.2529	0.2555	0.1000	20.2	20.0	1.1	30.0
Isopropylbenzene	Ave	1.798	2.018	0.1000	22.4	20.0	12.2	30.0
Cyclohexanone	Ave	0.3019	0.3079		510	500	2.0	30.0
1,1,2,2-Tetrachloroethane	Ave	1.216	1.298	0.3000	21.4	20.0	6.8	30.0
Bromobenzene	Ave	0.7266	0.7890		21.7	20.0	8.6	30.0
1,2,3-Trichloropropane	Ave	0.3488	0.3593		20.6	20.0	3.0	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-106360-1

SDG No.:

Lab Sample ID: ICV 410-311123/19 Calibration Date: 10/27/2022 18:25

Instrument ID: 9137 Calib Start Date: 10/27/2022 15:47

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 10/27/2022 17:46

Lab File ID: WC27X18.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
trans-1,4-Dichloro-2-butene	Ave	0.3729	0.3899		105	100	4.6	30.0
N-Propylbenzene	Ave	3.678	4.050		22.0	20.0	10.1	30.0
2-Chlorotoluene	Ave	0.7469	0.7856		21.0	20.0	5.2	30.0
1,3,5-Trimethylbenzene	Ave	2.691	2.929		21.8	20.0	8.8	30.0
4-Chlorotoluene	Ave	0.7325	0.7673		21.0	20.0	4.8	30.0
tert-Butylbenzene	Ave	0.4947	0.5379		21.7	20.0	8.7	30.0
1,2,4-Trimethylbenzene	Ave	2.760	2.954		21.4	20.0	7.0	30.0
sec-Butylbenzene	Ave	3.094	3.390		21.9	20.0	9.6	30.0
1,3-Dichlorobenzene	Ave	1.364	1.431	0.6000	21.0	20.0	4.9	30.0
p-Isopropyltoluene	Ave	2.631	2.931		22.3	20.0	11.4	30.0
1,4-Dichlorobenzene	Ave	1.424	1.499	0.5000	21.1	20.0	5.3	30.0
1,2,3-Trimethylbenzene	Ave	2.853	3.050		21.4	20.0	6.9	30.0
Benzyl chloride	Ave	2.378	2.438		20.5	20.0	2.5	30.0
1,3-Diethylbenzene	Ave	1.585	1.692		21.4	20.0	6.8	30.0
1,4-Diethylbenzene	Ave	1.602	1.698		21.2	20.0	6.0	30.0
n-Butylbenzene	Ave	1.313	1.418		21.6	20.0	8.0	30.0
1,2-Dichlorobenzene	Ave	1.401	1.500	0.4000	21.4	20.0	7.1	30.0
1,2-Diethylbenzene	Ave	1.329	1.395		21.0	20.0	5.0	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.3410	0.3286	0.0500	19.3	20.0	-3.6	30.0
1,3,5-Trichlorobenzene	Ave	0.9443	0.997		21.1	20.0	5.6	30.0
1,2,4-Trichlorobenzene	Ave	0.9393	1.012	0.2000	21.5	20.0	7.7	30.0
Hexachlorobutadiene	Ave	0.3264	0.3605		22.1	20.0	10.4	30.0
Naphthalene	Ave	4.132	4.398		21.3	20.0	6.4	30.0
1,2,3-Trichlorobenzene	Ave	0.9797	1.052		21.5	20.0	7.4	30.0
2-Methylnaphthalene	Ave	2.256	2.411		21.4	20.0	6.9	30.0
Dibromofluoromethane (Surr)	Ave	0.2315	0.2271		49.0	50.0	-1.9	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0620	0.0615		49.6	50.0	-0.8	30.0
Toluene-d8 (Surr)	Ave	1.324	1.344		50.7	50.0	1.5	30.0
4-Bromofluorobenzene (Surr)	Ave	0.5156	0.5090		49.4	50.0	-1.3	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X18.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 27-Oct-2022 18:25:30 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0069757-019
Misc. Info.: ICV
Operator ID: lcp00895 Instrument ID: 9137
Sublist:

Method: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 29-Oct-2022 01:15:23 Calib Date: 27-Oct-2022 17:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1618

First Level Reviewer: ULCP Date: 28-Oct-2022 06:27:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 Dichlorodifluoromethane	85	1.322	1.316	0.006	99	283836	20.0	15.6	M
6 Chloromethane	50	1.441	1.447	-0.006	99	319358	20.0	16.9	
7 Vinyl chloride	62	1.514	1.514	0.000	92	333259	20.0	18.6	
8 Butadiene	39	1.518	1.521	-0.003	92	329984	20.0	18.3	
10 Bromomethane	94	1.739	1.746	-0.007	90	185752	20.0	18.0	
11 Chloroethane	64	1.774	1.781	-0.007	99	169738	20.0	19.0	
12 Dichlorofluoromethane	67	1.928	1.935	-0.007	98	416804	20.0	20.2	
13 Pentane	43	1.989	1.986	0.003	98	294712	20.0	19.4	
14 Trichlorofluoromethane	101	1.989	1.993	-0.004	68	320390	20.0	17.9	
17 1,2-Dichloro-1,1,2-trifluoroetha	67	2.166	2.172	-0.006	93	227661	20.0	18.7	
16 Ethanol	45	2.240	2.220	0.020	41	260778	1000.0	962.6	M
18 Acrolein	56	2.249	2.249	0.000	98	494144	150.0	149.0	
19 1,1-Dichloroethene	96	2.333	2.339	-0.006	97	158960	20.0	19.5	
20 Acetone	58	2.371	2.368	0.003	100	447445	250.0	241.6	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.365	2.374	-0.009	63	187310	20.0	21.6	
23 Isopropyl alcohol	45	2.464	2.464	0.000	35	312646	150.0	155.6	M
22 Iodomethane	142	2.477	2.468	0.009	98	256195	20.0	20.7	
24 Carbon disulfide	76	2.541	2.538	0.003	100	502865	20.0	20.5	
25 3-Chloro-1-propene	41	2.638	2.641	-0.003	93	303233	20.0	21.0	
27 Methyl acetate	43	2.654	2.654	0.000	96	232397	20.0	19.7	
28 Methylene Chloride	84	2.743	2.744	-0.001	95	177896	20.0	19.6	
* 29 t-Butyl alcohol-d10 (IS)	65	2.872	2.849	0.023	85	720290	250.0	250.0	
30 2-Methyl-2-propanol	59	2.904	2.907	-0.003	98	676764	200.0	204.6	
31 Acrylonitrile	53	2.962	2.965	-0.003	99	621246	100.0	98.8	
33 trans-1,2-Dichloroethene	96	2.994	2.994	0.000	98	157327	20.0	19.4	
32 Methyl tert-butyl ether	73	3.010	3.000	0.010	97	553496	20.0	19.7	
34 Hexane	57	3.257	3.251	0.007	94	230636	20.0	19.5	
35 1,1-Dichloroethane	63	3.385	3.382	0.003	97	295115	20.0	19.7	
37 Isopropyl ether	45	3.453	3.453	0.000	96	595401	20.0	19.9	
38 2-Chloro-1,3-butadiene	53	3.472	3.472	0.000	92	281756	20.0	20.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Tert-butyl ethyl ether	59	3.793	3.793	0.000	98	570047	20.0	20.1	
40 cis-1,2-Dichloroethene	96	3.937	3.931	0.006	63	180673	20.0	20.5	
42 2,2-Dichloropropane	77	3.953	3.950	0.003	56	307561	20.0	20.7	
41 2-Butanone (MEK)	43	3.950	3.950	0.000	100	2130152	250.0	237.1	
44 Propionitrile	54	3.995	4.011	-0.016	57	421142	150.0	149.6	
45 Methacrylonitrile	67	4.146	4.146	0.000	93	849788	150.0	148.7	
46 Chlorobromomethane	128	4.162	4.168	-0.006	98	84498	20.0	20.6	
47 Tetrahydrofuran	71	4.210	4.213	-0.003	80	227356	100.0	104.1	
48 Chloroform	83	4.242	4.245	-0.003	92	267365	20.0	19.1	
$ 50 Dibromofluoromethane (Surr)	113	4.399	4.403	-0.003	93	323262	50.0	49.0	
51 1,1,1-Trichloroethane	97	4.435	4.438	-0.003	98	276766	20.0	20.0	
52 Cyclohexane	56	4.492	4.499	-0.007	93	368100	20.0	20.3	
53 1,1-Dichloropropene	75	4.592	4.589	0.003	94	234482	20.0	19.6	
54 Carbon tetrachloride	117	4.598	4.595	0.003	96	214990	20.0	20.0	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	4.736	4.733	0.003	92	87596	50.0	49.6	
55 Isobutyl alcohol	41	4.727	4.739	-0.012	81	488389	500.0	509.8	
57 Benzene	78	4.797	4.797	0.000	97	701728	20.0	20.1	
58 1,2-Dichloroethane	62	4.807	4.807	0.000	96	215814	20.0	20.1	
60 Tert-amyl methyl ether	73	4.916	4.919	-0.003	98	550196	20.0	20.1	
* 61 Fluorobenzene (IS)	96	5.073	5.073	0.000	98	1423689	50.0	50.0	
62 n-Heptane	43	5.086	5.083	0.003	85	210738	20.0	19.4	
63 n-Butanol	56	5.378	5.394	-0.016	94	840114	1000.0	1015.0	
64 Trichloroethene	95	5.449	5.449	0.000	98	167274	20.0	19.8	
65 Methylcyclohexane	83	5.660	5.664	-0.004	93	290412	20.0	20.1	
66 1,2-Dichloropropane	63	5.676	5.683	-0.007	97	188075	20.0	20.5	
67 2-ethoxy-2-methyl butane	87	5.728	5.725	0.003	92	242565	20.0	19.5	
68 Dibromomethane	93	5.795	5.795	0.000	96	106727	20.0	19.7	
69 Methyl methacrylate	69	5.811	5.814	-0.003	95	163935	20.0	18.4	
70 1,4-Dioxane	88	5.821	5.818	0.003	38	102251	500.0	525.4	M
72 Dichlorobromomethane	83	5.968	5.968	0.000	99	203326	20.0	20.1	
74 2-Nitropropane	41	6.209	6.206	0.003	96	78722	20.0	19.6	
75 2-Chloroethyl vinyl ether	63	6.299	6.296	0.003	92	133363	20.0	19.8	
77 cis-1,3-Dichloropropene	75	6.447	6.447	0.000	95	258752	20.0	19.5	
78 4-Methyl-2-pentanone (MIBK)	43	6.626	6.626	0.000	97	4242458	250.0	245.3	
$ 79 Toluene-d8 (Surr)	98	6.739	6.739	0.000	93	1402518	50.0	50.7	
80 Toluene	92	6.812	6.812	0.000	98	421209	20.0	21.0	
81 trans-1,3-Dichloropropene	75	7.059	7.056	0.003	95	237927	20.0	20.3	
83 Ethyl methacrylate	69	7.178	7.175	0.003	91	284850	20.0	21.2	
84 1,1,2-Trichloroethane	97	7.249	7.252	-0.003	90	152271	20.0	20.4	
86 Tetrachloroethene	166	7.400	7.400	0.000	96	164539	20.0	21.4	
87 1,3-Dichloropropane	76	7.419	7.422	-0.003	94	258472	20.0	20.7	
90 2-Hexanone	43	7.522	7.525	-0.003	97	2992738	250.0	263.5	
91 Chlorodibromomethane	129	7.643	7.647	-0.004	91	144178	20.0	20.4	
93 Ethylene Dibromide	107	7.753	7.749	0.004	98	154658	20.0	20.8	
* 94 Chlorobenzene-d5 (IS)	117	8.192	8.192	0.000	88	1043902	50.0	50.0	
95 1-Chlorohexane	91	8.215	8.215	0.000	97	223855	20.0	20.7	
96 Chlorobenzene	112	8.218	8.218	0.000	93	425724	20.0	20.9	
97 1,1,1,2-Tetrachloroethane	131	8.298	8.298	0.000	96	156110	20.0	20.4	
98 Ethylbenzene	91	8.327	8.324	0.003	99	820579	20.0	21.7	
99 m-Xylene & p-Xylene	106	8.430	8.430	0.000	99	609235	40.0	42.8	
100 o-Xylene	106	8.767	8.767	0.000	97	315972	20.0	21.1	
101 Styrene	104	8.779	8.779	0.000	94	500389	20.0	21.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
102 Bromoform	173	8.921	8.921	0.000	97	106701	20.0	20.2	
103 Isopropylbenzene	105	9.075	9.075	0.000	96	842529	20.0	22.4	
105 Cyclohexanone	55	9.139	9.142	-0.003	94	443633	500.1	510.1	
$ 106 4-Bromofluorobenzene (Surr)	95	9.190	9.187	0.003	88	531325	50.0	49.4	
107 Bromobenzene	156	9.306	9.306	0.000	94	178575	20.0	21.7	
108 1,1,2,2-Tetrachloroethane	83	9.306	9.309	-0.003	94	293858	20.0	21.4	
109 1,2,3-Trichloropropane	110	9.338	9.338	0.000	83	81326	20.0	20.6	
110 trans-1,4-Dichloro-2-butene	53	9.351	9.351	0.000	94	441286	100.0	104.6	
111 N-Propylbenzene	91	9.399	9.399	0.000	99	916570	20.0	22.0	
112 2-Chlorotoluene	126	9.456	9.460	-0.004	96	177810	20.0	21.0	
113 1,3,5-Trimethylbenzene	105	9.533	9.534	-0.001	94	662861	20.0	21.8	
114 4-Chlorotoluene	126	9.543	9.543	0.000	99	173674	20.0	21.0	
116 tert-Butylbenzene	134	9.781	9.781	0.000	93	121745	20.0	21.7	
118 1,2,4-Trimethylbenzene	105	9.816	9.813	0.003	98	668608	20.0	21.4	
119 sec-Butylbenzene	105	9.941	9.941	0.000	94	767308	20.0	21.9	
141 1,3-Dichlorobenzene	146	10.018	10.018	0.000	98	323883	20.0	21.0	
143 4-Isopropyltoluene	119	10.047	10.047	0.000	97	663343	20.0	22.3	
* 144 1,4-Dichlorobenzene-d4	152	10.063	10.063	0.000	97	565845	50.0	50.0	
145 1,4-Dichlorobenzene	146	10.082	10.082	0.000	95	339219	20.0	21.1	
146 1,2,3-Trimethylbenzene	105	10.121	10.121	0.000	99	690365	20.0	21.4	
147 Benzyl chloride	91	10.178	10.179	-0.001	98	551717	20.0	20.5	
148 1,3-Diethylbenzene	119	10.262	10.259	0.003	96	382949	20.0	21.4	
149 p-Diethylbenzene	119	10.320	10.320	0.000	95	384257	20.0	21.2	
150 n-Butylbenzene	92	10.339	10.336	0.003	98	320898	20.0	21.6	
151 1,2-Dichlorobenzene	146	10.349	10.345	0.004	98	339485	20.0	21.4	
152 o-diethylbenzene	119	10.403	10.403	0.000	97	315814	20.0	21.0	
153 1,2-Dibromo-3-Chloropropane	75	10.881	10.881	0.000	85	74384	20.0	19.3	
154 1,3,5-Trichlorobenzene	180	11.029	11.029	0.000	97	225713	20.0	21.1	
156 1,2,4-Trichlorobenzene	180	11.440	11.440	0.000	94	229041	20.0	21.5	
157 Hexachlorobutadiene	225	11.549	11.549	0.000	96	81591	20.0	22.1	
158 Naphthalene	128	11.600	11.600	0.000	97	995522	20.0	21.3	
159 1,2,3-Trichlorobenzene	180	11.757	11.757	0.000	95	238057	20.0	21.5	
160 2-Methylnaphthalene	142	12.322	12.322	0.000	93	545762	20.0	21.4	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LCS_VOC#1_00079	Amount Added: 50.00	Units: uL	
MSV_LCS_2CEVE_00084	Amount Added: 50.00	Units: uL	
MSV_LCS_CYC_00002	Amount Added: 50.00	Units: uL	
MSV_LCS_ACROL_00081	Amount Added: 50.00	Units: uL	
MSV_LCS_ETOH_00003	Amount Added: 50.00	Units: uL	
MSV_LCS_Gases_00111	Amount Added: 50.00	Units: uL	
MSV_Cent_ISSS_00013	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 29-Oct-2022 01:15:26 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X18.D

Injection Date: 27-Oct-2022 18:25:30 Instrument ID: 9137 Operator ID: lcp00895

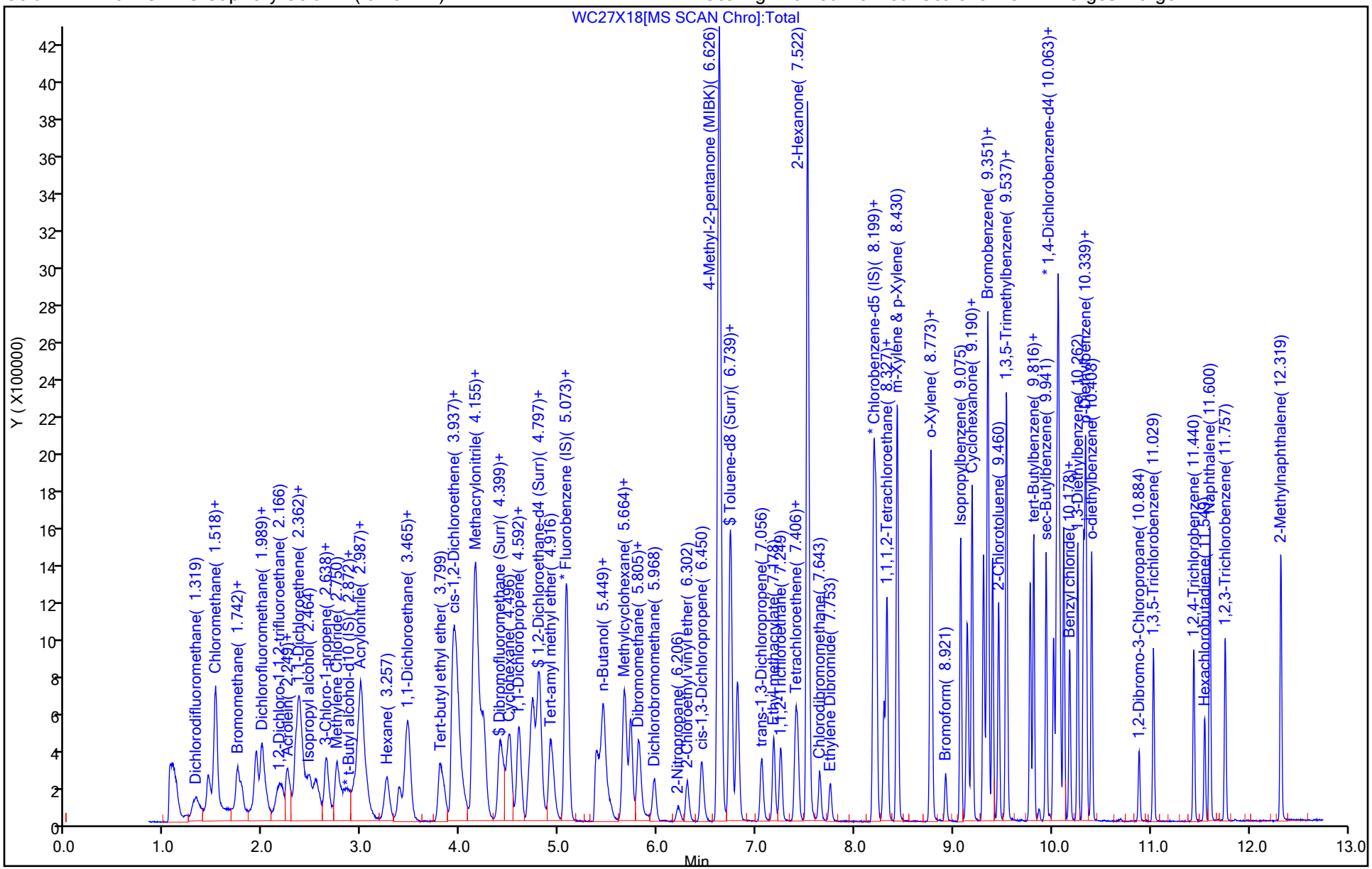
Lims ID: ICV Worklist Smp#: 19

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 18

Method: MSVoa_9137 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

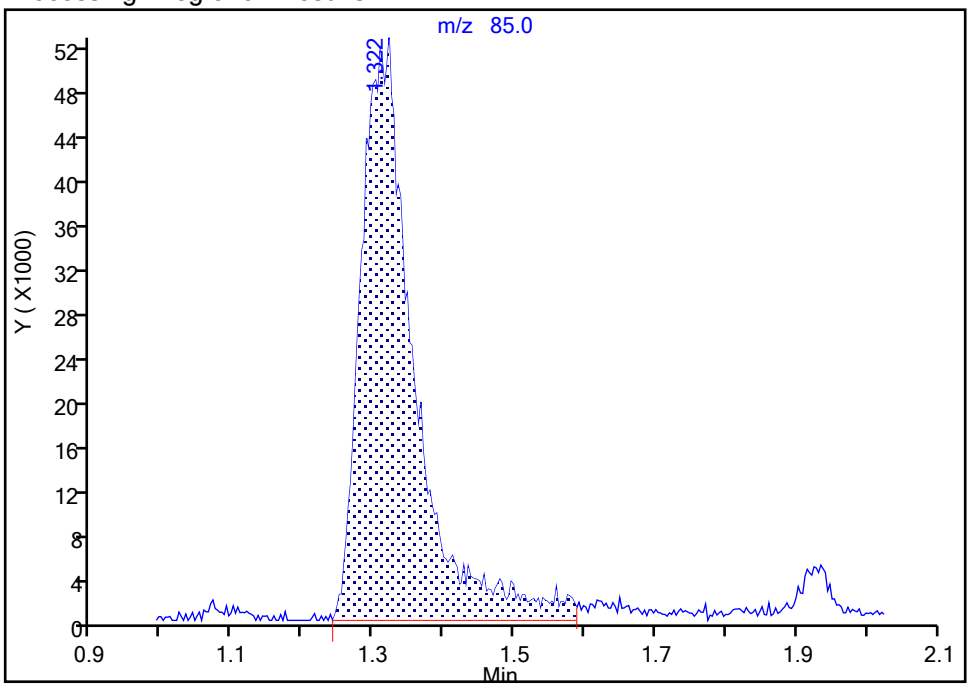
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X18.D
Injection Date: 27-Oct-2022 18:25:30 Instrument ID: 9137
Lims ID: ICV
Client ID:
Operator ID: lcp00895 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

5 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

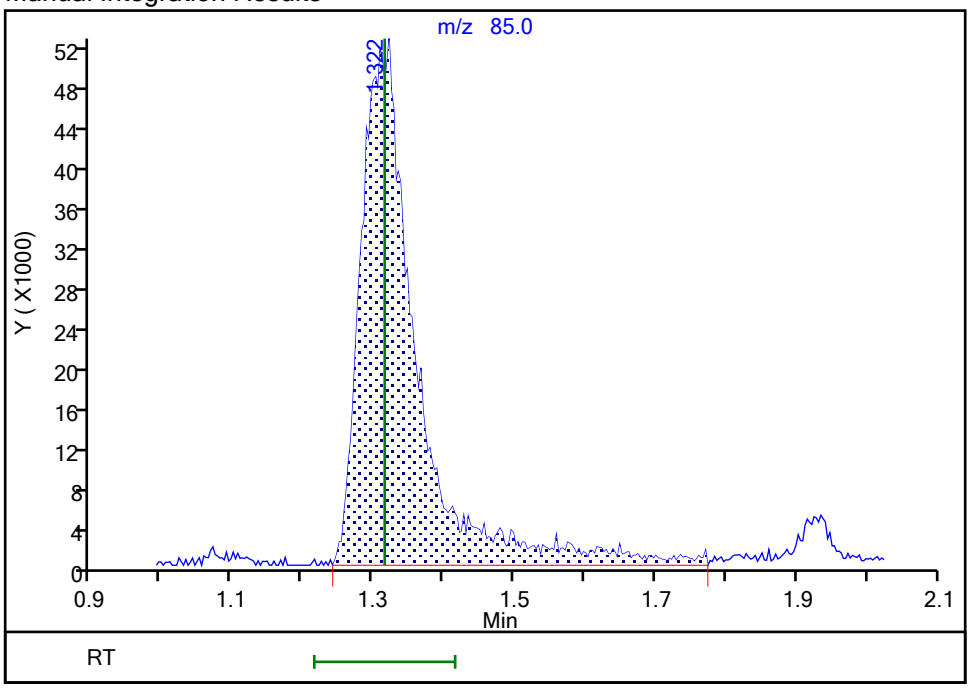
Processing Integration Results

RT: 1.32
Area: 273002
Amount: 15.027724
Amount Units: ug/l



Manual Integration Results

RT: 1.32
Area: 283836
Amount: 15.624094
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 01:10:19
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

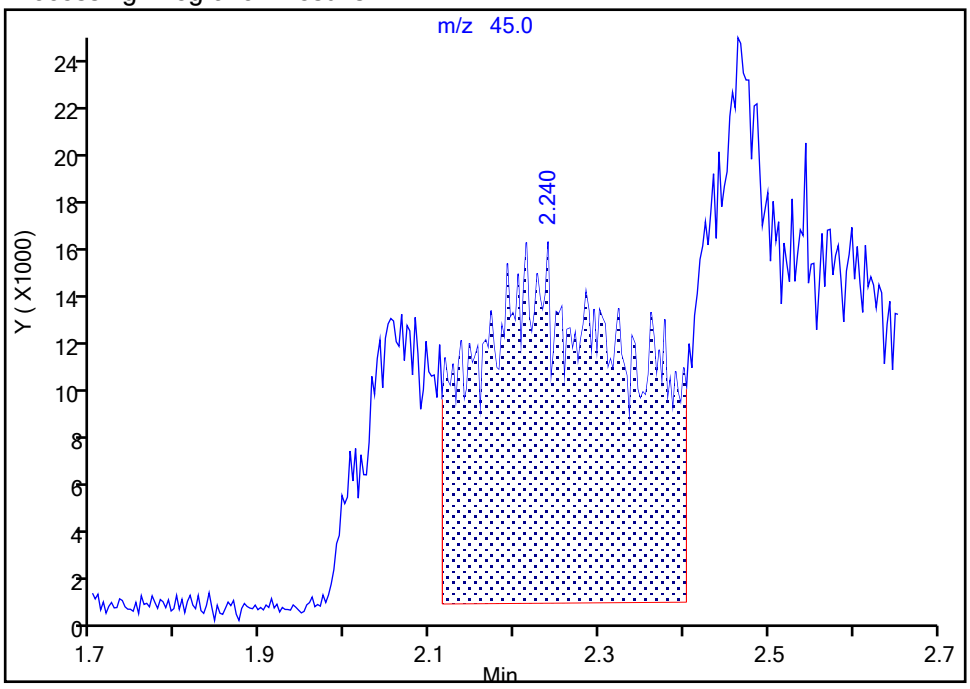
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X18.D
Injection Date: 27-Oct-2022 18:25:30 Instrument ID: 9137
Lims ID: ICV
Client ID:
Operator ID: lcp00895 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

16 Ethanol, CAS: 64-17-5

Signal: 1

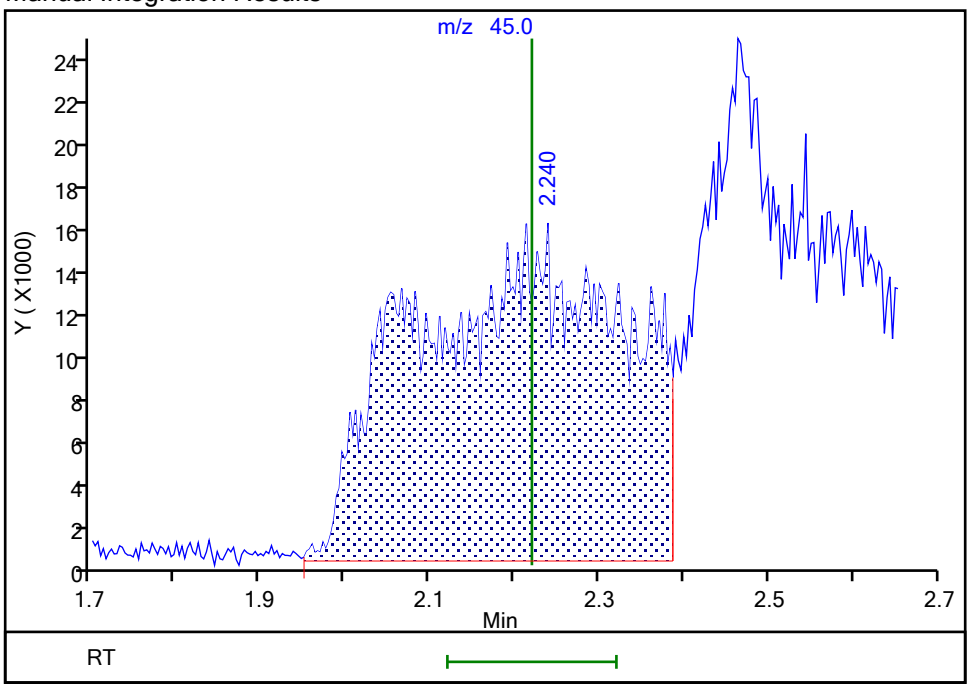
Processing Integration Results

RT: 2.24
Area: 189957
Amount: 701.2124
Amount Units: ug/l



Manual Integration Results

RT: 2.24
Area: 260778
Amount: 962.6429
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 01:10:42
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

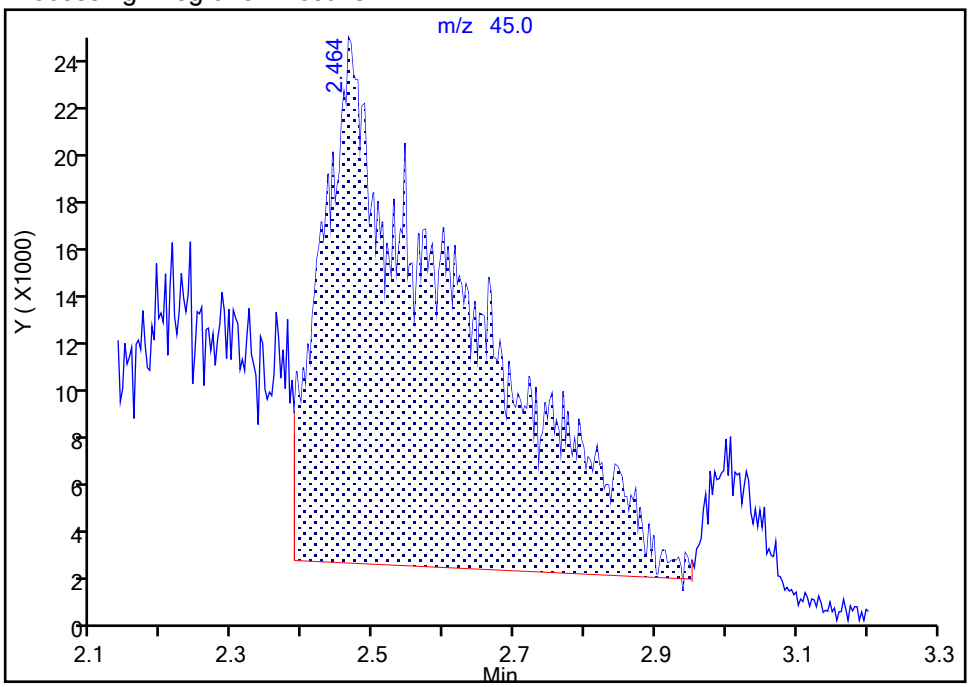
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X18.D
Injection Date: 27-Oct-2022 18:25:30 Instrument ID: 9137
Lims ID: ICV
Client ID:
Operator ID: lcp00895 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

23 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

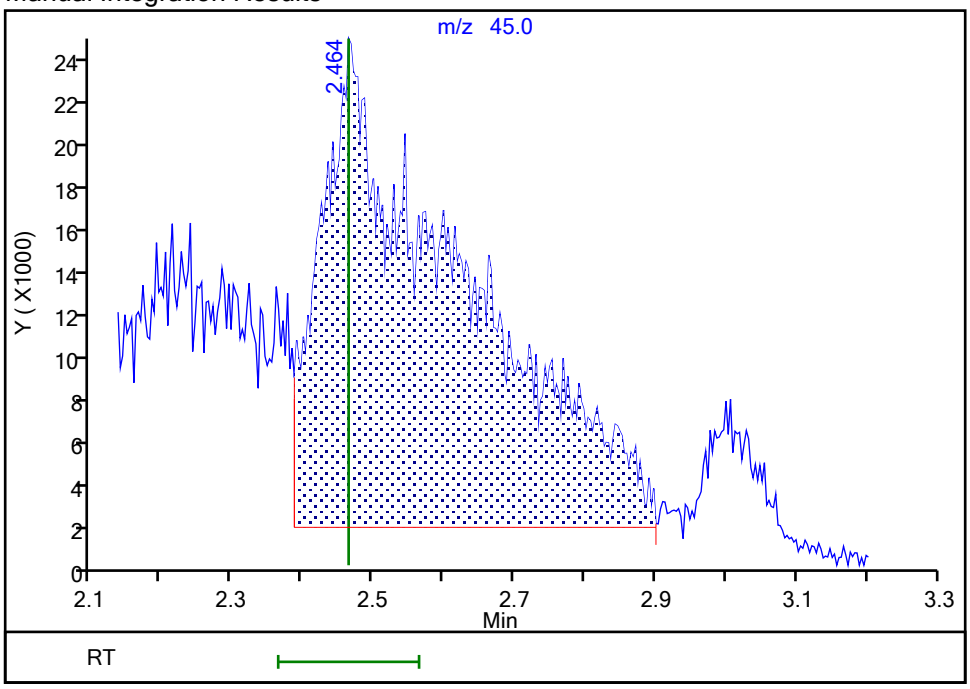
Processing Integration Results

RT: 2.46
Area: 302367
Amount: 150.5322
Amount Units: ug/l



Manual Integration Results

RT: 2.46
Area: 312646
Amount: 155.6495
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 01:11:03
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

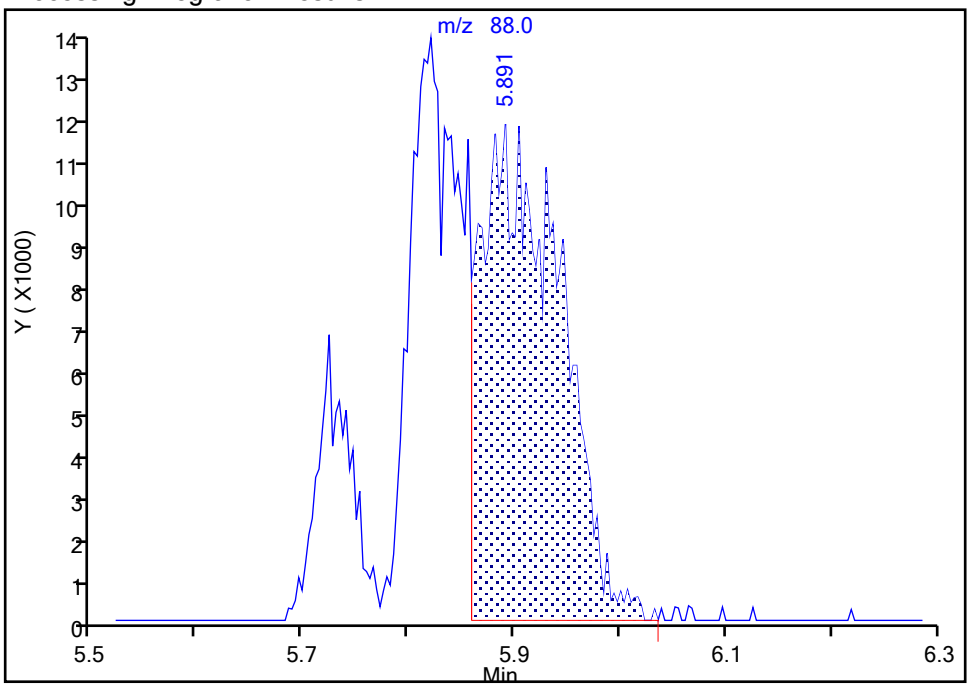
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X18.D
Injection Date: 27-Oct-2022 18:25:30 Instrument ID: 9137
Lims ID: ICV
Client ID:
Operator ID: lcp00895 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

70 1,4-Dioxane, CAS: 123-91-1

Signal: 1

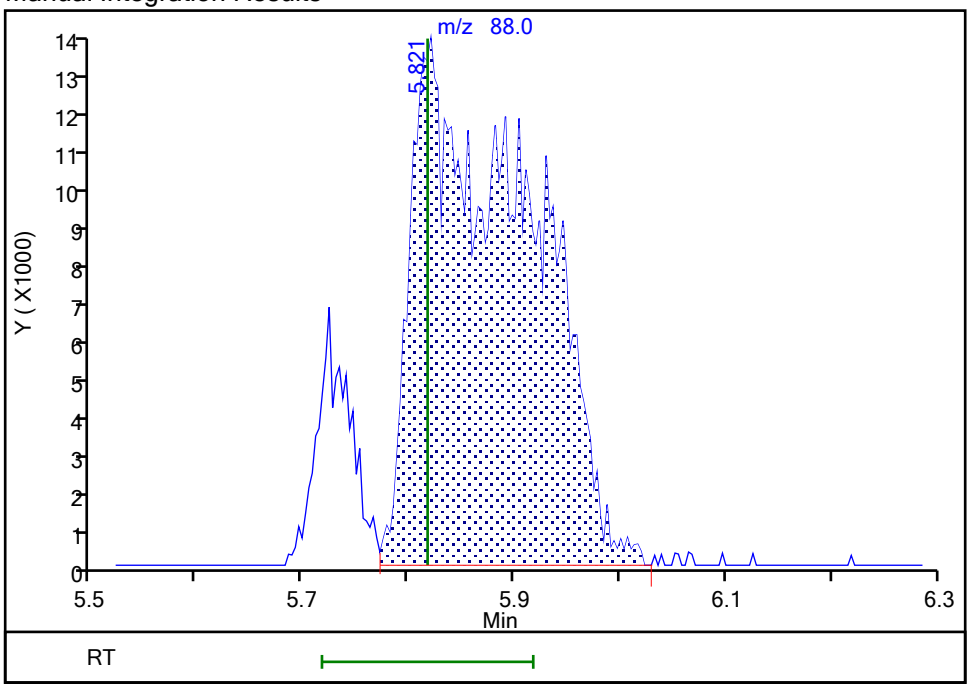
Processing Integration Results

RT: 5.89
Area: 59432
Amount: 305.3570
Amount Units: ug/l



Manual Integration Results

RT: 5.82
Area: 102251
Amount: 525.3577
Amount Units: ug/l



Reviewer: K4WN, 29-Oct-2022 01:11:27
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-106360-1

SDG No.:

Lab Sample ID: CCVIS 410-322343/3 Calibration Date: 11/30/2022 19:54

Instrument ID: 9137 Calib Start Date: 10/27/2022 15:47

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 10/27/2022 17:46

Lab File ID: WN30X32.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	0.6380	0.5483	0.1000	43.0	50.0	-14.1	20.0
Chloromethane	Ave	0.6636	0.6385	0.1000	48.1	50.0	-3.8	20.0
1,3-Butadiene	Ave	0.6326	0.6109		48.3	50.0	-3.4	20.0
Vinyl chloride	Ave	0.6308	0.6224	0.1000	49.3	50.0	-1.3	20.0
Bromomethane	Ave	0.3626	0.3574	0.1000	49.3	50.0	-1.5	20.0
Chloroethane	Ave	0.3145	0.3235	0.1000	51.4	50.0	2.8	20.0
Dichlorofluoromethane	Ave	0.7258	0.6919		47.7	50.0	-4.7	20.0
n-Pentane	Ave	0.5327	0.4480		42.0	50.0	-15.9	20.0
Trichlorofluoromethane	Ave	0.6276	0.5803	0.1000	46.2	50.0	-7.5	20.0
Freon 123a	Ave	0.4281	0.3984		46.5	50.0	-7.0	20.0
Acrolein	Ave	1.151	1.547		672	500	34.4*	20.0
1,1-Dichloroethene	Ave	0.2856	0.2824	0.1000	49.4	50.0	-1.1	20.0
Acetone	Ave	0.6427	0.7841	0.1000	122	100	22.0*	20.0
Freon 113	Ave	0.3044	0.2737	0.1000	45.0	50.0	-10.1	20.0
2-Propanol	Ave	0.6972	0.6440		231	250	-7.6	20.0
Methyl iodide	Ave	0.4340	0.4544		52.3	50.0	4.7	20.0
Carbon disulfide	Ave	0.8622	0.8394	0.1000	48.7	50.0	-2.6	20.0
Allyl chloride	Ave	0.5076	0.4898		48.2	50.0	-3.5	20.0
Methyl acetate	Ave	0.4149	0.3434	0.1000	41.4	50.0	-17.2	20.0
Methylene Chloride	Ave	0.3195	0.3140	0.1000	49.1	50.0	-1.7	20.0
t-Butyl alcohol	Ave	1.148	1.270		277	250	10.6	20.0
Acrylonitrile	Ave	0.2207	0.2163		122	125	-2.0	20.0
trans-1,2-Dichloroethene	Ave	0.2849	0.2948	0.1000	51.7	50.0	3.5	20.0
Methyl tertiary butyl ether	Ave	0.9849	0.9659	0.1000	49.0	50.0	-1.9	20.0
n-Hexane	Ave	0.4162	0.3227		38.8	50.0	-22.5*	20.0
1,1-Dichloroethane	Ave	0.5260	0.5325	0.2000	50.6	50.0	1.2	20.0
di-Isopropyl ether	Ave	1.053	1.042		49.5	50.0	-1.0	20.0
2-Chloro-1,3-butadiene	Ave	0.4859	0.4500		46.3	50.0	-7.4	20.0
Ethyl t-butyl ether	Ave	0.998	0.9832		49.2	50.0	-1.5	20.0
cis-1,2-Dichloroethene	Ave	0.3101	0.3138	0.1000	50.6	50.0	1.2	20.0
2-Butanone	Ave	0.3155	0.2685	0.1000	85.1	100	-14.9	20.0
2,2-Dichloropropane	Ave	0.5222	0.4543		43.5	50.0	-13.0	20.0
Propionitrile	Ave	0.9772	1.132		290	250	15.9	20.0
Methacrylonitrile	Ave	0.2008	0.1908		119	125	-5.0	20.0
Bromochloromethane	Ave	0.1442	0.1509		52.4	50.0	4.7	20.0
Tetrahydrofuran	Ave	0.7578	0.9396		310	250	24.0*	20.0
Chloroform	Ave	0.4911	0.4740	0.2000	48.3	50.0	-3.5	20.0
1,1,1-Trichloroethane	Ave	0.4854	0.4349	0.1000	44.8	50.0	-10.4	20.0
Cyclohexane	Ave	0.6366	0.5477	0.1000	43.0	50.0	-14.0	20.0
1,1-Dichloropropene	Ave	0.4197	0.3963		47.2	50.0	-5.6	20.0
Carbon tetrachloride	Ave	0.3770	0.3439	0.1000	45.6	50.0	-8.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-106360-1

SDG No.:

Lab Sample ID: CCVIS 410-322343/3 Calibration Date: 11/30/2022 19:54

Instrument ID: 9137 Calib Start Date: 10/27/2022 15:47

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 10/27/2022 17:46

Lab File ID: WN30X32.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Isobutyl alcohol	Ave	0.3325	0.3634		683	625	9.3	20.0
Benzene	Ave	1.225	1.185	0.5000	48.4	50.0	-3.2	20.0
1,2-Dichloroethane	Ave	0.3772	0.3599	0.1000	47.7	50.0	-4.6	20.0
t-Amyl methyl ether	Ave	0.9597	0.9311		48.5	50.0	-3.0	20.0
n-Heptane	Ave	0.3818	0.2755		36.1	50.0	-27.8*	20.0
n-Butanol	Ave	0.2873	0.2841		618	625	-1.1	20.0
Trichloroethene	Ave	0.2973	0.2788	0.2000	46.9	50.0	-6.2	20.0
Methylcyclohexane	Ave	0.5063	0.4205	0.1000	41.5	50.0	-16.9	20.0
1,2-Dichloropropane	Ave	0.3230	0.3110	0.1000	48.1	50.0	-3.7	20.0
t-Amyl ethyl ether	Ave	0.4380	0.4345		49.6	50.0	-0.8	20.0
Dibromomethane	Ave	0.1901	0.1776		46.7	50.0	-6.5	20.0
Methyl methacrylate	Ave	0.3123	0.2666		42.7	50.0	-14.6	20.0
1,4-Dioxane	Ave	0.0676	0.0796	0.0050	737	625	17.9	20.0
Bromodichloromethane	Ave	0.3558	0.3214	0.2000	45.2	50.0	-9.7	20.0
2-Nitropropane	Ave	1.393	1.223		220	250	-12.2	20.0
2-Chloroethyl vinyl ether	Ave	0.2366	0.2135		45.1	50.0	-9.7	20.0
cis-1,3-Dichloropropene	Ave	0.4669	0.4191	0.2000	44.9	50.0	-10.2	20.0
4-Methyl-2-pentanone	Ave	0.6075	0.5524	0.1000	90.9	100	-9.1	20.0
Toluene	Ave	0.9611	1.007	0.4000	52.4	50.0	4.7	20.0
trans-1,3-Dichloropropene	Ave	0.5602	0.5261	0.1000	47.0	50.0	-6.1	20.0
Ethyl methacrylate	Ave	0.6441	0.6553		50.9	50.0	1.7	20.0
1,1,2-Trichloroethane	Ave	0.3567	0.3585	0.1000	50.3	50.0	0.5	20.0
Tetrachloroethene	Ave	0.3677	0.4046	0.2000	55.0	50.0	10.0	20.0
1,3-Dichloropropane	Ave	0.5970	0.5935		49.7	50.0	-0.6	20.0
2-Hexanone	Ave	0.5439	0.5299	0.1000	97.4	100	-2.6	20.0
Dibromochloromethane	Ave	0.3381	0.3431		50.7	50.0	1.5	20.0
1,2-Dibromoethane	Ave	0.3557	0.3645	0.1000	51.2	50.0	2.5	20.0
1-Chlorohexane	Ave	0.5181	0.4645		44.8	50.0	-10.3	20.0
Chlorobenzene	Ave	0.9772	1.017	0.5000	52.0	50.0	4.1	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3673	0.3750		51.0	50.0	2.1	20.0
Ethylbenzene	Ave	1.812	1.898	0.1000	52.4	50.0	4.7	20.0
m&p-Xylene	Ave	0.6810	0.7273	0.1000	107	100	6.8	20.0
o-Xylene	Ave	0.7175	0.7602	0.3000	53.0	50.0	5.9	20.0
Styrene	Ave	1.117	1.169	0.3000	52.3	50.0	4.7	20.0
Bromoform	Ave	0.2529	0.2555	0.1000	50.5	50.0	1.1	20.0
Isopropylbenzene	Ave	1.798	1.887	0.1000	52.5	50.0	5.0	20.0
1,1,2,2-Tetrachloroethane	Ave	1.216	1.272	0.3000	52.3	50.0	4.7	20.0
Bromobenzene	Ave	0.7266	0.7861		54.1	50.0	8.2	20.0
1,2,3-Trichloropropane	Ave	0.3488	0.3510		50.3	50.0	0.6	20.0
trans-1,4-Dichloro-2-butene	Ave	0.3729	0.2723		91.3	125	-27.0*	20.0
N-Propylbenzene	Ave	3.678	3.838		52.2	50.0	4.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-106360-1

SDG No.:

Lab Sample ID: CCVIS 410-322343/3 Calibration Date: 11/30/2022 19:54

Instrument ID: 9137 Calib Start Date: 10/27/2022 15:47

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 10/27/2022 17:46

Lab File ID: WN30X32.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chlorotoluene	Ave	0.7469	0.7958		53.3	50.0	6.5	20.0
1,3,5-Trimethylbenzene	Ave	2.691	2.831		52.6	50.0	5.2	20.0
4-Chlorotoluene	Ave	0.7325	0.7723		52.7	50.0	5.4	20.0
tert-Butylbenzene	Ave	0.4947	0.5319		53.8	50.0	7.5	20.0
1,2,4-Trimethylbenzene	Ave	2.760	2.927		53.0	50.0	6.0	20.0
sec-Butylbenzene	Ave	3.094	3.239		52.3	50.0	4.7	20.0
1,3-Dichlorobenzene	Ave	1.364	1.494	0.6000	54.8	50.0	9.6	20.0
p-Isopropyltoluene	Ave	2.631	2.790		53.0	50.0	6.1	20.0
1,4-Dichlorobenzene	Ave	1.424	1.451	0.5000	50.9	50.0	1.9	20.0
1,2,3-Trimethylbenzene	Ave	2.853	3.141		55.0	50.0	10.1	20.0
Benzyl chloride	Ave	2.378	2.104		44.2	50.0	-11.5	20.0
1,3-Diethylbenzene	Ave	1.585	1.655		52.2	50.0	4.4	20.0
1,4-Diethylbenzene	Ave	1.602	1.664		51.9	50.0	3.8	20.0
n-Butylbenzene	Ave	1.313	1.342		51.1	50.0	2.2	20.0
1,2-Dichlorobenzene	Ave	1.401	1.602	0.4000	57.2	50.0	14.3	20.0
1,2-Diethylbenzene	Ave	1.329	1.397		52.6	50.0	5.2	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.3410	0.3054	0.0500	44.8	50.0	-10.5	20.0
1,3,5-Trichlorobenzene	Ave	0.9443	1.023		54.2	50.0	8.4	20.0
1,2,4-Trichlorobenzene	Ave	0.9393	1.018	0.2000	54.2	50.0	8.4	20.0
Hexachlorobutadiene	Ave	0.3264	0.3243		49.7	50.0	-0.6	20.0
Naphthalene	Ave	4.132	4.435		53.7	50.0	7.3	20.0
1,2,3-Trichlorobenzene	Ave	0.9797	1.088		55.5	50.0	11.0	20.0
2-Methylnaphthalene	Ave	2.256	2.394		53.1	50.0	6.1	20.0
Dibromofluoromethane (Surr)	Ave	0.2315	0.2382		51.4	50.0	2.9	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0620	0.0660		53.2	50.0	6.4	20.0
Toluene-d8 (Surr)	Ave	1.324	1.395		52.7	50.0	5.4	20.0
4-Bromofluorobenzene (Surr)	Ave	0.5156	0.4787		46.4	50.0	-7.2	20.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20221130-72248.b\WN30X32.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 30-Nov-2022 19:54:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0072248-003
Misc. Info.: CCVIS
Operator ID: mec29284 Instrument ID: 9137
Sublist: chrom-MSVoa_9137*sub31

Method: \\chromfs\Lancaster\ChromData\9137\20221130-72248.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 30-Nov-2022 20:56:05 Calib Date: 27-Oct-2022 17:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1622

First Level Reviewer: K4WN Date: 30-Nov-2022 20:22:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 Dichlorodifluoromethane	85	1.325	1.325	0.000	99	748922	50.0	43.0	M
6 Chloromethane	50	1.457	1.457	0.000	99	872018	50.0	48.1	
8 Butadiene	39	1.527	1.527	0.000	90	834335	50.0	48.3	
7 Vinyl chloride	62	1.530	1.530	0.000	98	850010	50.0	49.3	
10 Bromomethane	94	1.755	1.755	0.000	89	488080	50.0	49.3	
11 Chloroethane	64	1.787	1.787	0.000	99	441781	50.0	51.4	
12 Dichlorofluoromethane	67	1.941	1.941	0.000	97	945041	50.0	47.7	
13 Pentane	43	1.999	1.999	0.000	97	611844	50.0	42.0	
14 Trichlorofluoromethane	101	2.002	2.002	0.000	98	792511	50.0	46.2	
17 1,2-Dichloro-1,1,2-trifluoroetha	67	2.188	2.188	0.000	95	544094	50.0	46.5	
18 Acrolein	56	2.252	2.252	0.000	100	1654290	500.0	671.9	
19 1,1-Dichloroethene	96	2.342	2.342	0.000	98	385745	50.0	49.4	
20 Acetone	58	2.368	2.368	0.000	99	167729	100.0	122.0	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.381	2.381	0.000	90	373770	50.0	45.0	
23 Isopropyl alcohol	45	2.477	2.477	0.000	45	344376	250.0	230.9	
22 Iodomethane	142	2.483	2.483	0.000	97	620575	50.0	52.3	
24 Carbon disulfide	76	2.541	2.541	0.000	99	1146459	50.0	48.7	
25 3-Chloro-1-propene	41	2.647	2.647	0.000	93	668908	50.0	48.2	
27 Methyl acetate	43	2.660	2.660	0.000	98	468956	50.0	41.4	
28 Methylene Chloride	84	2.753	2.753	0.000	95	428847	50.0	49.1	
* 29 t-Butyl alcohol-d10 (IS)	65	2.840	2.840	0.000	83	534778	250.0	250.0	
30 2-Methyl-2-propanol	59	2.904	2.904	0.000	98	679273	250.0	276.6	
31 Acrylonitrile	53	2.968	2.968	0.000	99	738453	125.0	122.5	
33 trans-1,2-Dichloroethene	96	3.003	3.003	0.000	99	402679	50.0	51.7	
32 Methyl tert-butyl ether	73	3.013	3.013	0.000	90	1319239	50.0	49.0	
34 Hexane	57	3.260	3.260	0.000	94	440717	50.0	38.8	
35 1,1-Dichloroethane	63	3.388	3.388	0.000	96	727341	50.0	50.6	
37 Isopropyl ether	45	3.456	3.456	0.000	96	1422803	50.0	49.5	
38 2-Chloro-1,3-butadiene	53	3.472	3.472	0.000	91	614656	50.0	46.3	
39 Tert-butyl ethyl ether	59	3.802	3.802	0.000	98	1342778	50.0	49.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 cis-1,2-Dichloroethene	96	3.937	3.937	0.000	83	428522	50.0	50.6	
41 2-Butanone (MEK)	43	3.947	3.947	0.000	98	733478	100.0	85.1	
42 2,2-Dichloropropane	77	3.966	3.966	0.000	83	620428	50.0	43.5	
44 Propionitrile	54	4.004	4.004	0.000	99	605433	250.0	289.6	
45 Methacrylonitrile	67	4.146	4.146	0.000	91	651553	125.0	118.8	
46 Chlorobromomethane	128	4.158	4.158	0.000	97	206161	50.0	52.4	
47 Tetrahydrofuran	71	4.216	4.216	0.000	96	502457	250.0	309.9	
48 Chloroform	83	4.245	4.245	0.000	94	647345	50.0	48.3	
$ 50 Dibromofluoromethane (Surr)	113	4.406	4.406	0.000	94	325320	50.0	51.4	
51 1,1,1-Trichloroethane	97	4.434	4.434	0.000	98	593947	50.0	44.8	
52 Cyclohexane	56	4.502	4.502	0.000	92	748070	50.0	43.0	
53 1,1-Dichloropropene	75	4.598	4.598	0.000	96	541277	50.0	47.2	
54 Carbon tetrachloride	117	4.598	4.598	0.000	96	469739	50.0	45.6	
55 Isobutyl alcohol	41	4.710	4.710	0.000	93	485884	625.0	683.2	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	4.730	4.730	0.000	98	90128	50.0	53.2	
57 Benzene	78	4.797	4.797	0.000	96	1618633	50.0	48.4	
58 1,2-Dichloroethane	62	4.810	4.810	0.000	96	491570	50.0	47.7	
60 Tert-amyl methyl ether	73	4.916	4.916	0.000	99	1271622	50.0	48.5	
* 61 Fluorobenzene (IS)	96	5.076	5.076	0.000	98	1365788	50.0	50.0	
62 n-Heptane	43	5.079	5.079	0.000	94	376238	50.0	36.1	
63 n-Butanol	56	5.384	5.384	0.000	93	379816	625.0	618.1	
64 Trichloroethene	95	5.452	5.452	0.000	99	380768	50.0	46.9	
65 Methylcyclohexane	83	5.657	5.657	0.000	93	574372	50.0	41.5	
66 1,2-Dichloropropane	63	5.676	5.676	0.000	97	424726	50.0	48.1	
67 2-ethoxy-2-methyl butane	87	5.731	5.731	0.000	93	593419	50.0	49.6	
68 Dibromomethane	93	5.795	5.795	0.000	97	242593	50.0	46.7	
69 Methyl methacrylate	69	5.814	5.814	0.000	95	364054	50.0	42.7	
70 1,4-Dioxane	88	5.821	5.821	0.000	69	106460	625.0	736.7	
72 Dichlorobromomethane	83	5.965	5.965	0.000	99	439030	50.0	45.2	
74 2-Nitropropane	41	6.209	6.209	0.000	98	654041	250.0	219.6	
75 2-Chloroethyl vinyl ether	63	6.299	6.299	0.000	92	291630	50.0	45.1	
77 cis-1,3-Dichloropropene	75	6.446	6.446	0.000	96	572386	50.0	44.9	
78 4-Methyl-2-pentanone (MIBK)	43	6.623	6.623	0.000	97	1508999	100.0	90.9	
$ 79 Toluene-d8 (Surr)	98	6.738	6.738	0.000	92	1302621	50.0	52.7	
80 Toluene	92	6.806	6.806	0.000	98	939666	50.0	52.4	
81 trans-1,3-Dichloropropene	75	7.053	7.053	0.000	93	491153	50.0	47.0	
83 Ethyl methacrylate	69	7.178	7.178	0.000	92	611781	50.0	50.9	
84 1,1,2-Trichloroethane	97	7.249	7.249	0.000	90	334719	50.0	50.3	
86 Tetrachloroethene	166	7.403	7.403	0.000	98	377704	50.0	55.0	
87 1,3-Dichloropropane	76	7.422	7.422	0.000	92	554081	50.0	49.7	
90 2-Hexanone	43	7.521	7.521	0.000	97	989365	100.0	97.4	
91 Chlorodibromomethane	129	7.647	7.647	0.000	90	320284	50.0	50.7	
93 Ethylene Dibromide	107	7.749	7.749	0.000	99	340311	50.0	51.2	
* 94 Chlorobenzene-d5 (IS)	117	8.192	8.192	0.000	85	933545	50.0	50.0	
95 1-Chlorohexane	91	8.211	8.211	0.000	97	433598	50.0	44.8	
96 Chlorobenzene	112	8.218	8.218	0.000	94	949532	50.0	52.0	
97 1,1,1,2-Tetrachloroethane	131	8.295	8.295	0.000	95	350064	50.0	51.0	
98 Ethylbenzene	91	8.327	8.327	0.000	98	1772155	50.0	52.4	
99 m-Xylene & p-Xylene	106	8.430	8.430	0.000	100	1357890	100.0	106.8	
100 o-Xylene	106	8.766	8.766	0.000	97	709637	50.0	53.0	
101 Styrene	104	8.779	8.779	0.000	95	1091478	50.0	52.3	
102 Bromoform	173	8.921	8.921	0.000	97	238567	50.0	50.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
103 Isopropylbenzene	105	9.075	9.075	0.000	96	1761918	50.0	52.5	
$ 106 4-Bromofluorobenzene (Surr)	95	9.190	9.190	0.000	90	446933	50.0	46.4	
107 Bromobenzene	156	9.306	9.306	0.000	92	398990	50.0	54.1	
108 1,1,2,2-Tetrachloroethane	83	9.306	9.306	0.000	95	645761	50.0	52.3	
109 1,2,3-Trichloropropane	110	9.334	9.334	0.000	86	178144	50.0	50.3	
110 trans-1,4-Dichloro-2-butene	53	9.351	9.351	0.000	94	345549	125.0	91.3	
111 N-Propylbenzene	91	9.395	9.395	0.000	99	1948139	50.0	52.2	
112 2-Chlorotoluene	126	9.460	9.460	0.000	97	403916	50.0	53.3	
113 1,3,5-Trimethylbenzene	105	9.533	9.533	0.000	95	1436913	50.0	52.6	
114 4-Chlorotoluene	126	9.543	9.543	0.000	98	391994	50.0	52.7	
116 tert-Butylbenzene	134	9.781	9.781	0.000	93	270001	50.0	53.8	
118 1,2,4-Trimethylbenzene	105	9.813	9.813	0.000	97	1485641	50.0	53.0	
119 sec-Butylbenzene	105	9.941	9.941	0.000	94	1643911	50.0	52.3	
141 1,3-Dichlorobenzene	146	10.018	10.018	0.000	98	758323	50.0	54.8	
143 4-Isopropyltoluene	119	10.047	10.047	0.000	97	1416382	50.0	53.0	
* 144 1,4-Dichlorobenzene-d4	152	10.063	10.063	0.000	96	507580	50.0	50.0	
145 1,4-Dichlorobenzene	146	10.079	10.079	0.000	95	736248	50.0	50.9	
146 1,2,3-Trimethylbenzene	105	10.121	10.121	0.000	98	1594140	50.0	55.0	
147 Benzyl chloride	91	10.178	10.178	0.000	98	1067943	50.0	44.2	
148 1,3-Diethylbenzene	119	10.262	10.262	0.000	95	839927	50.0	52.2	
149 p-Diethylbenzene	119	10.320	10.320	0.000	94	844428	50.0	51.9	
150 n-Butylbenzene	92	10.339	10.339	0.000	98	681391	50.0	51.1	
151 1,2-Dichlorobenzene	146	10.345	10.345	0.000	98	813032	50.0	57.2	
152 o-diethylbenzene	119	10.403	10.403	0.000	95	709254	50.0	52.6	
153 1,2-Dibromo-3-Chloropropane	75	10.881	10.881	0.000	86	155001	50.0	44.8	
154 1,3,5-Trichlorobenzene	180	11.032	11.032	0.000	98	519354	50.0	54.2	
156 1,2,4-Trichlorobenzene	180	11.436	11.436	0.000	94	516619	50.0	54.2	
157 Hexachlorobutadiene	225	11.549	11.549	0.000	96	164588	50.0	49.7	
158 Naphthalene	128	11.600	11.600	0.000	97	2251174	50.0	53.7	
159 1,2,3-Trichlorobenzene	180	11.757	11.757	0.000	96	552037	50.0	55.5	
160 2-Methylnaphthalene	142	12.322	12.322	0.000	94	1215343	50.0	53.1	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_VOC#1_00099	Amount Added:	5.00	Units: uL	
MSV_CCV_2CEVE_00095	Amount Added:	5.00	Units: uL	
MSV_CCV_VOC#3_00099	Amount Added:	4.00	Units: uL	
MSV_CCV_GASES_00320	Amount Added:	2.50	Units: uL	
MSV_Cent_ISSS_00011	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 30-Nov-2022 20:56:05 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20221130-72248.b\WN30X32.D

Injection Date: 30-Nov-2022 19:54:30 Instrument ID: 9137 Operator ID: mec29284

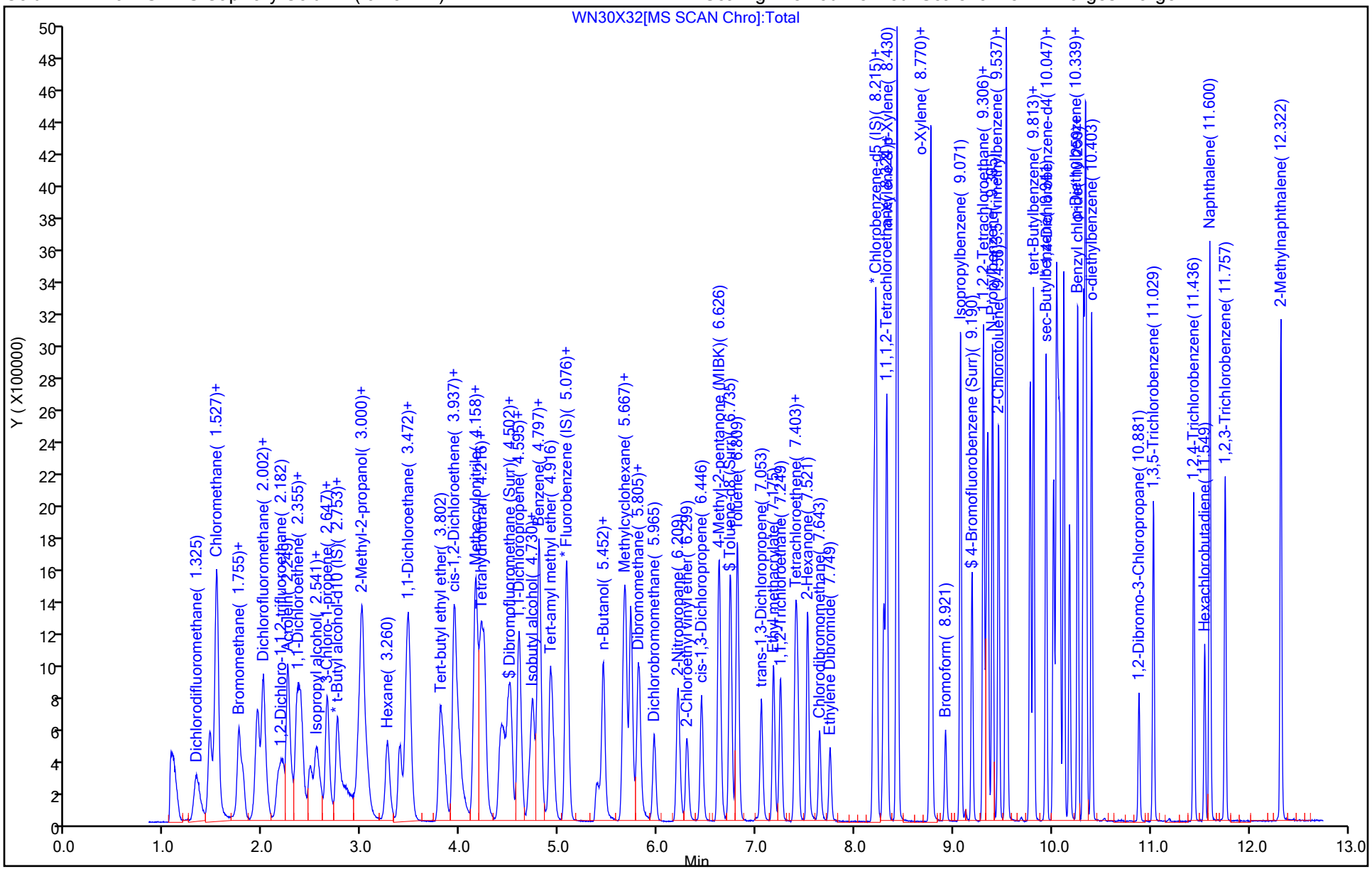
Lims ID: CCVIS Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 2

Method: MSVoa_9137 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

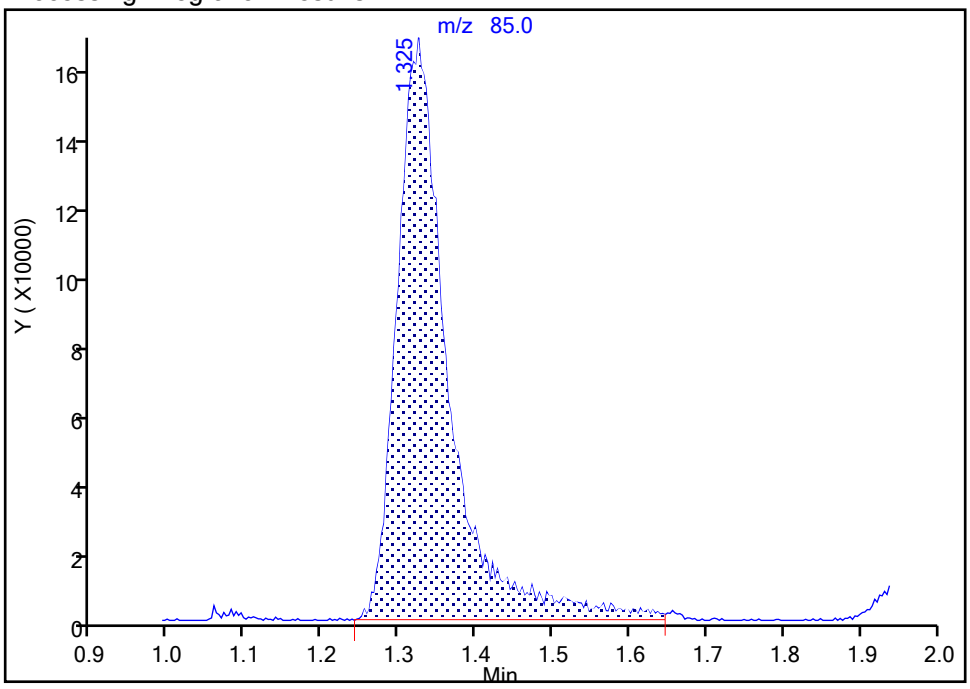
Data File: \\chromfs\Lancaster\ChromData\9137\20221130-72248.b\WN30X32.D
Injection Date: 30-Nov-2022 19:54:30 Instrument ID: 9137
Lims ID: CCVIS
Client ID:
Operator ID: mec29284 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

5 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

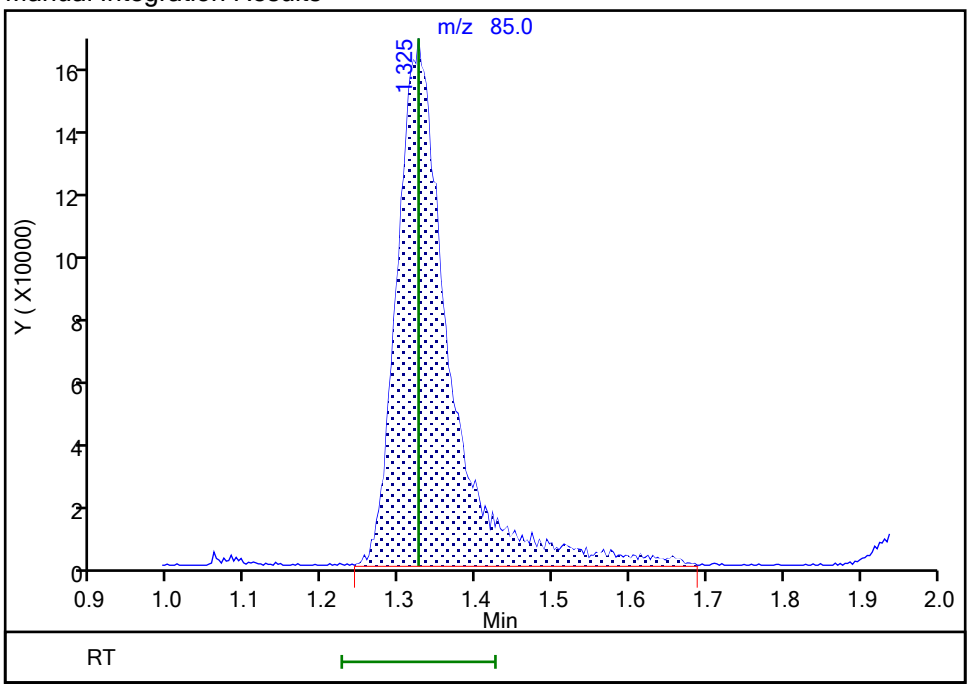
Processing Integration Results

RT: 1.33
Area: 745770
Amount: 42.792152
Amount Units: ug/l



Manual Integration Results

RT: 1.33
Area: 748922
Amount: 42.973013
Amount Units: ug/l



Reviewer: K4WN, 30-Nov-2022 20:21:15
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WO27T01.D
Lims ID: bfb
Client ID:
Sample Type: BFB
Inject. Date: 27-Oct-2022 12:27:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 410-0069757-001
Misc. Info.: BFB
Operator ID: lcp00895 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 29-Oct-2022 01:15:23 Calib Date: 27-Oct-2022 17:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1618

First Level Reviewer: ULCP Date: 27-Oct-2022 12:45:23

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 49 BFB	95	4.293	4.293	0.000	0	1383888	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

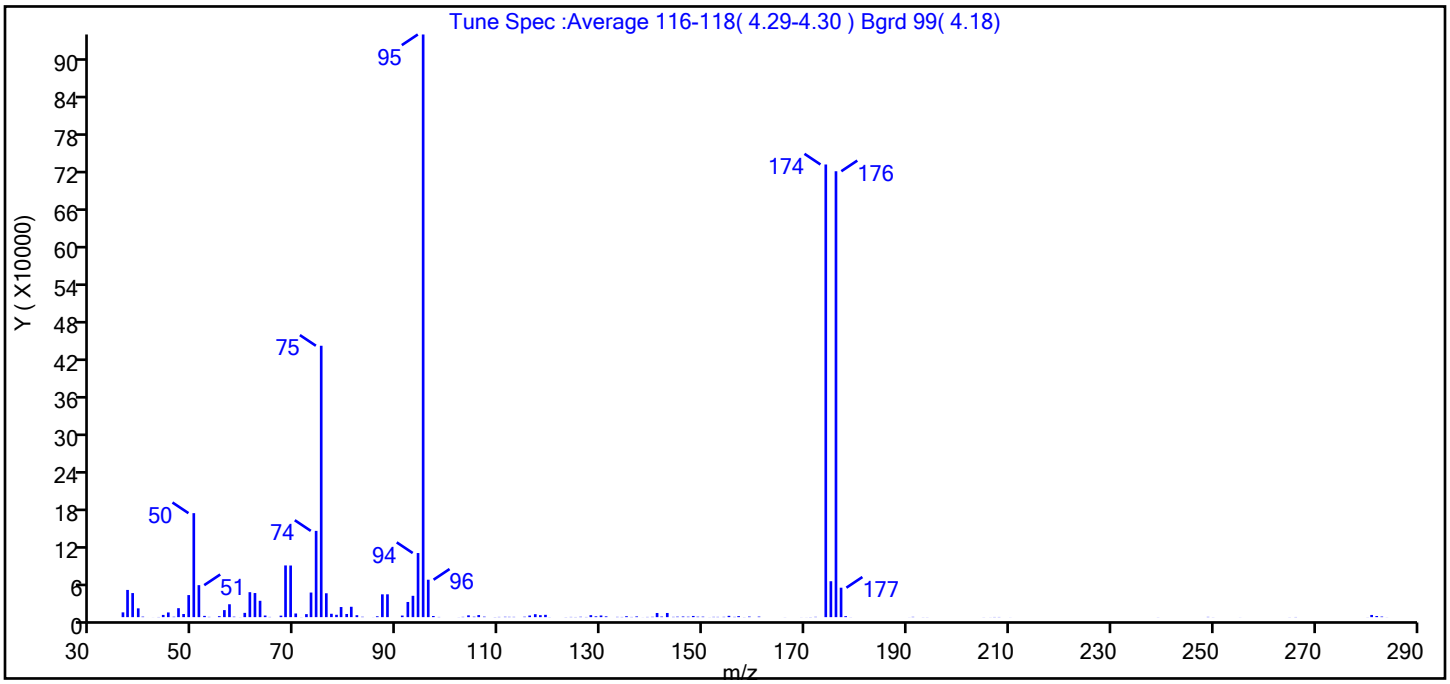
MSV_V_BFB_00008 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WO27T01.D
Injection Date: 27-Oct-2022 12:27:30 Instrument ID: 9137
Lims ID: bfb
Client ID:
Operator ID: lcp00895 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Tune Method: BFB Method 8260

$ 49 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	17.8
75	30 to 60% of m/z 95	46.6
96	5 to 9% of m/z 95	6.4
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	77.7
175	5 to 9% of m/z 174	6.2 (7.9)
176	Greater than 95% but less than 101% of m/z 174	76.5 (98.5)
177	5 to 9% of m/z 176	5.1 (6.6)

Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WO27T01.D\MSVoa_9137.rslt\spectra.d
Injection Date: 27-Oct-2022 12:27:30
Spectrum: Tune Spec :Average 116-118(4.29-4.30) Bgrd 99(4.18)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 144

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	7698	74.00	138944	118.00	3171	157.00	1646
37.00	43832	75.00	437120	119.00	3719	158.00	164
38.00	38784	76.00	38448	120.00	154	159.00	939
39.00	14192	77.00	5429	123.00	190	161.00	898
40.00	831	78.00	3807	124.00	360	166.00	113
41.00	23	79.00	16280	125.00	263	169.00	97
42.00	72	80.00	5099	126.00	598	170.00	91
43.00	269	81.00	16696	127.00	290	171.00	223
44.00	3590	82.00	3120	128.00	3205	172.00	490
45.00	7562	83.00	604	129.00	1312	174.00	729088
46.00	668	85.00	88	130.00	2686	175.00	57864
47.00	14442	86.00	1405	131.00	1269	176.00	718208
48.00	5041	87.00	36720	133.00	436	177.00	47440
49.00	35536	88.00	36776	134.00	321	178.00	1579
50.00	167488	91.00	2529	135.00	1534	179.00	135
51.00	51520	92.00	24440	136.00	326	190.00	90
52.00	2031	93.00	34352	137.00	1199	191.00	479
53.00	444	94.00	103256	138.00	83	193.00	139
55.00	1546	95.00	938496	139.00	353	194.00	133
56.00	11328	96.00	60288	140.00	562	205.00	127
57.00	20768	97.00	1846	141.00	6695	206.00	94
58.00	759	98.00	326	142.00	933	207.00	281
59.00	139	102.00	127	143.00	6703	208.00	279
60.00	6892	103.00	476	144.00	470	210.00	83
61.00	40208	104.00	2895	145.00	779	239.00	120
62.00	38808	105.00	736	146.00	1039	249.00	420
63.00	26336	106.00	3315	147.00	700	250.00	130
64.00	2600	107.00	806	148.00	1903	255.00	93
65.00	355	109.00	222	149.00	724	265.00	133
67.00	2416	110.00	383	150.00	781	266.00	267
68.00	83280	111.00	588	151.00	106	267.00	7
69.00	83152	112.00	489	152.00	458	280.00	124
70.00	5886	113.00	442	153.00	419	281.00	3524

Report Date: 29-Oct-2022 01:15:23 Chrom Revision: 2.3 25-Oct-2022 11:16:06
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WO27T01.D\MSVoa_9137.rslt\spectra.d
Injection Date: 27-Oct-2022 12:27:30
Spectrum: Tune Spec :Average 116-118(4.29-4.30) Bgrd 99(4.18)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 144

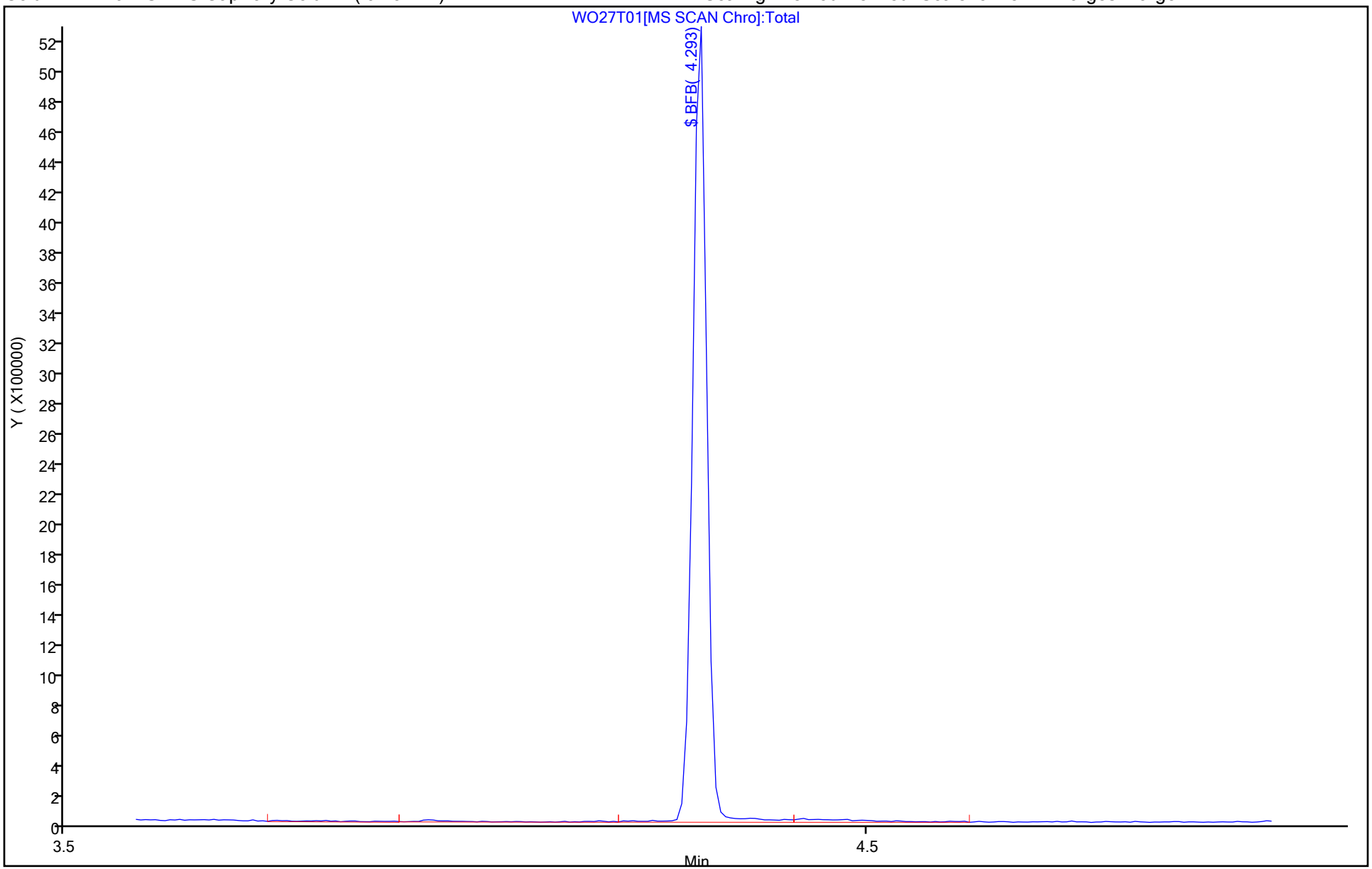
m/z	Y	m/z	Y	m/z	Y	m/z	Y
71.00	148	115.00	694	154.00	502	282.00	1804
72.00	4847	116.00	2594	155.00	2102	283.00	944
73.00	39616	117.00	4752	156.00	456	284.00	109

Report Date: 29-Oct-2022 01:15:23 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WO27T01.D				
Injection Date:	27-Oct-2022 12:27:30	Instrument ID:	9137	Operator ID:	lcp00895
Lims ID:	bfb			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSVoa_9137	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\9137\20221027-69757.b\WO27T01.D
Lims ID: bfb
Client ID:
Sample Type: BFB
Inject. Date: 27-Oct-2022 12:27:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 410-0069757-001
Misc. Info.: BFB
Operator ID: lcp00895 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\MSVoa_9137.m
Limit Group: MSV - 8260C DOD5
Last Update: 29-Oct-2022 01:15:23 Calib Date: 27-Oct-2022 17:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1618

First Level Reviewer: ULCP Date: 27-Oct-2022 12:45:23

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 49 BFB	95	4.293	4.293	0.000	0	1383888	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

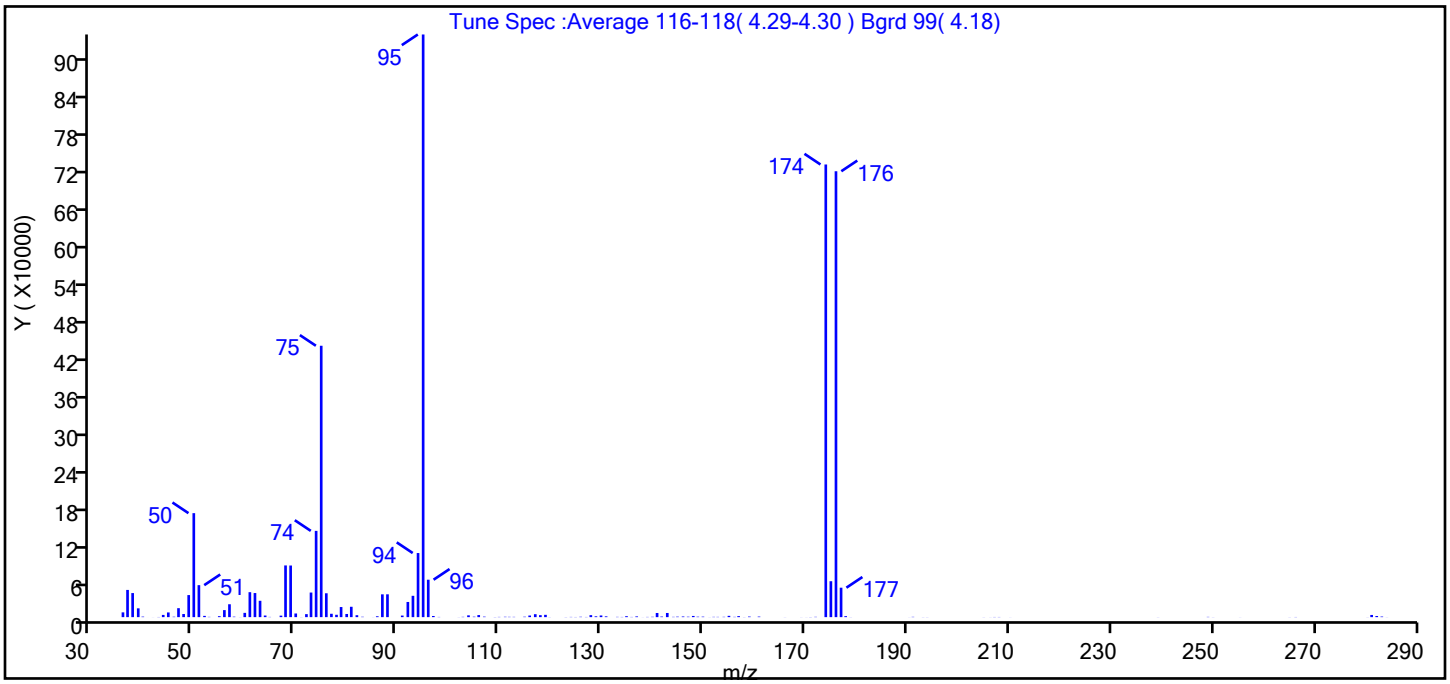
MSV_V_BFB_00008 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WO27T01.D
Injection Date: 27-Oct-2022 12:27:30 Instrument ID: 9137
Lims ID: bfb
Client ID:
Operator ID: lcp00895 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C DOD5
Tune Method: BFB Method 8260

$ 49 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	17.8
75	30 to 60% of m/z 95	46.6
96	5 to 9% of m/z 95	6.4
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	77.7
175	5 to 9% of m/z 174	6.2 (7.9)
176	Greater than 95% but less than 101% of m/z 174	76.5 (98.5)
177	5 to 9% of m/z 176	5.1 (6.6)

Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WO27T01.D\MSVoa_9137.rslt\spectra.d
Injection Date: 27-Oct-2022 12:27:30
Spectrum: Tune Spec :Average 116-118(4.29-4.30) Bgrd 99(4.18)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 144

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	7698	74.00	138944	118.00	3171	157.00	1646
37.00	43832	75.00	437120	119.00	3719	158.00	164
38.00	38784	76.00	38448	120.00	154	159.00	939
39.00	14192	77.00	5429	123.00	190	161.00	898
40.00	831	78.00	3807	124.00	360	166.00	113
41.00	23	79.00	16280	125.00	263	169.00	97
42.00	72	80.00	5099	126.00	598	170.00	91
43.00	269	81.00	16696	127.00	290	171.00	223
44.00	3590	82.00	3120	128.00	3205	172.00	490
45.00	7562	83.00	604	129.00	1312	174.00	729088
46.00	668	85.00	88	130.00	2686	175.00	57864
47.00	14442	86.00	1405	131.00	1269	176.00	718208
48.00	5041	87.00	36720	133.00	436	177.00	47440
49.00	35536	88.00	36776	134.00	321	178.00	1579
50.00	167488	91.00	2529	135.00	1534	179.00	135
51.00	51520	92.00	24440	136.00	326	190.00	90
52.00	2031	93.00	34352	137.00	1199	191.00	479
53.00	444	94.00	103256	138.00	83	193.00	139
55.00	1546	95.00	938496	139.00	353	194.00	133
56.00	11328	96.00	60288	140.00	562	205.00	127
57.00	20768	97.00	1846	141.00	6695	206.00	94
58.00	759	98.00	326	142.00	933	207.00	281
59.00	139	102.00	127	143.00	6703	208.00	279
60.00	6892	103.00	476	144.00	470	210.00	83
61.00	40208	104.00	2895	145.00	779	239.00	120
62.00	38808	105.00	736	146.00	1039	249.00	420
63.00	26336	106.00	3315	147.00	700	250.00	130
64.00	2600	107.00	806	148.00	1903	255.00	93
65.00	355	109.00	222	149.00	724	265.00	133
67.00	2416	110.00	383	150.00	781	266.00	267
68.00	83280	111.00	588	151.00	106	267.00	7
69.00	83152	112.00	489	152.00	458	280.00	124
70.00	5886	113.00	442	153.00	419	281.00	3524

Report Date: 29-Oct-2022 01:15:24 Chrom Revision: 2.3 25-Oct-2022 11:16:06
Data File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WO27T01.D\MSVoa_9137.rslt\spectra.d
Injection Date: 27-Oct-2022 12:27:30
Spectrum: Tune Spec :Average 116-118(4.29-4.30) Bgrd 99(4.18)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 144

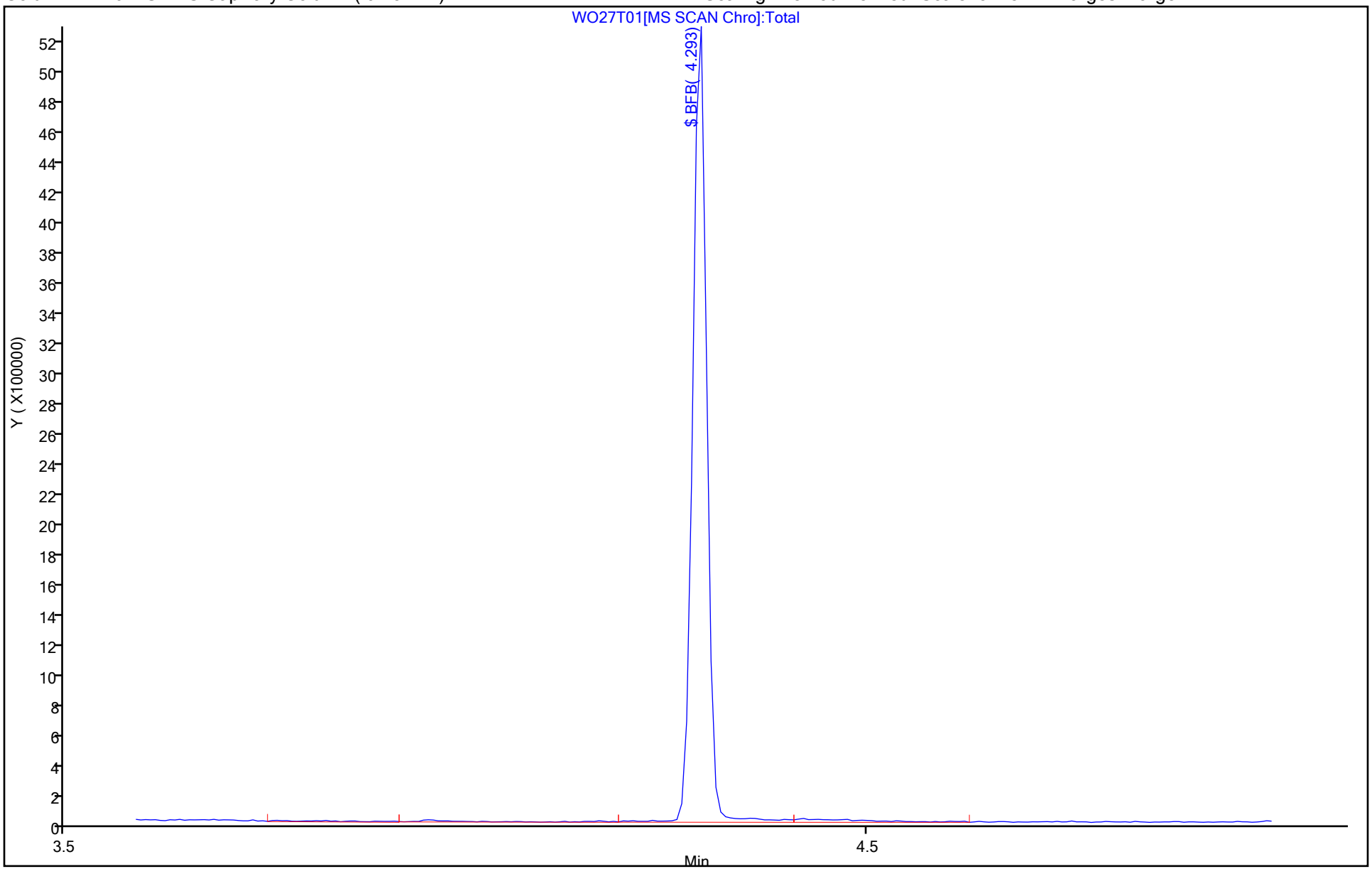
m/z	Y	m/z	Y	m/z	Y	m/z	Y
71.00	148	115.00	694	154.00	502	282.00	1804
72.00	4847	116.00	2594	155.00	2102	283.00	944
73.00	39616	117.00	4752	156.00	456	284.00	109

Report Date: 29-Oct-2022 01:15:24 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WO27T01.D				
Injection Date:	27-Oct-2022 12:27:30	Instrument ID:	9137	Operator ID:	lcp00895
Lims ID:	bfb			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSVoa_9137	Limit Group:	MSV - 8260C DOD5		

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\9137\20221130-72248.b\WN30T31.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 30-Nov-2022 19:20:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info:
Misc. Info.: BFB
Operator ID: mec29284 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20221130-72248.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 30-Nov-2022 20:56:18 Calib Date: 27-Oct-2022 17:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1622

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 49 BFB	95	4.287	4.287	0.000	0	1396129	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

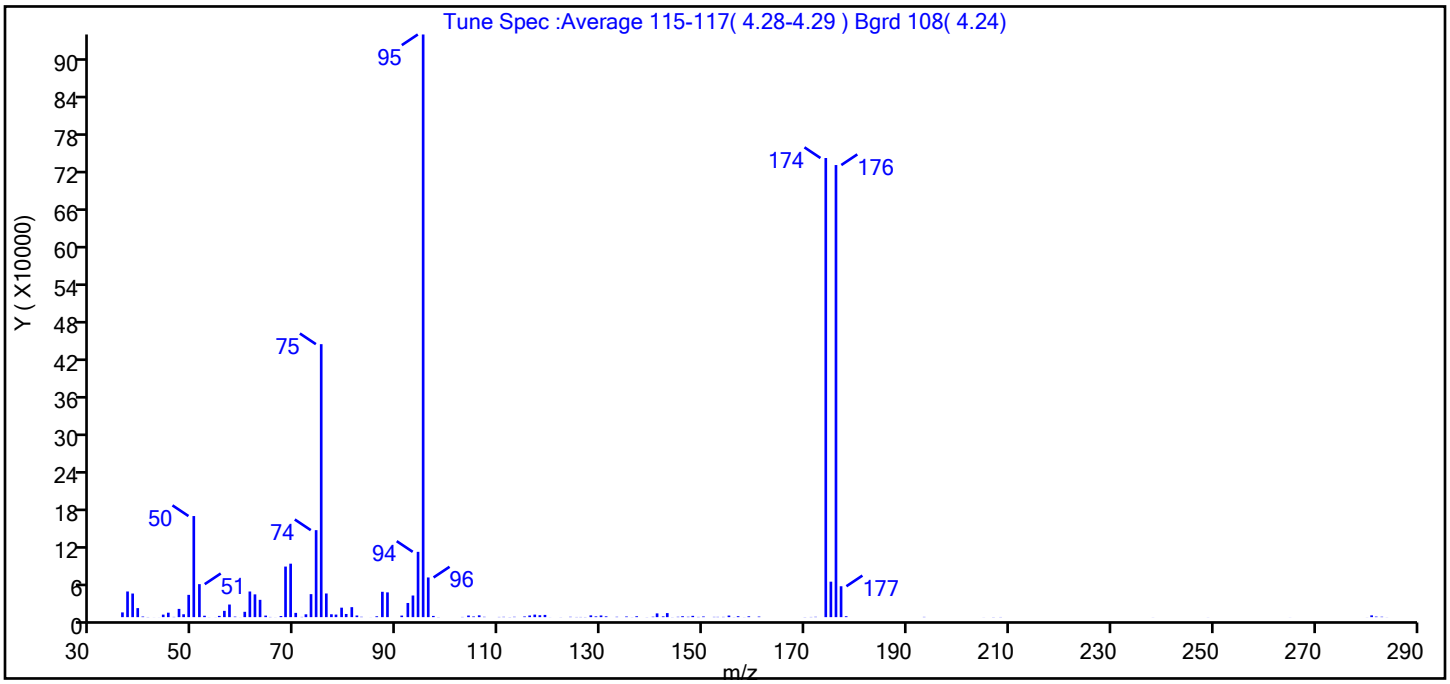
MSV_V_BFB_00008 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20221130-72248.b\WN30T31.D
Injection Date: 30-Nov-2022 19:20:30 Instrument ID: 9137
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_9137 Limit Group: MSV - 8260C_D
Tune Method: BFB Method 8260

$ 49 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	17.4
75	30 to 60% of m/z 95	46.9
96	5 to 9% of m/z 95	6.8
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	78.8
175	5 to 9% of m/z 174	6.1 (7.7)
176	Greater than 95% but less than 101% of m/z 174	77.6 (98.5)
177	5 to 9% of m/z 176	5.3 (6.8)

Data File: \\chromfs\Lancaster\ChromData\9137\20221130-72248.b\WN30T31.D\MSVoa_9137.rslt\spectra.d
Injection Date: 30-Nov-2022 19:20:30
Spectrum: Tune Spec :Average 115-117(4.28-4.29) Bgrd 108(4.24)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 129

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	7644	69.00	86136	111.00	504	150.00	1066
37.00	41352	70.00	6880	112.00	230	152.00	431
38.00	38048	71.00	375	113.00	563	153.00	429
39.00	14577	72.00	4568	115.00	1103	154.00	427
40.00	983	73.00	37072	116.00	2656	155.00	2537
41.00	248	74.00	140160	117.00	4058	156.00	134
42.00	83	75.00	439808	118.00	3091	157.00	1523
43.00	89	76.00	38112	119.00	3599	158.00	124
44.00	4082	77.00	4623	120.00	94	159.00	1327
45.00	7153	78.00	4144	122.00	147	161.00	948
46.00	390	79.00	15269	124.00	542	170.00	211
47.00	13294	80.00	5108	125.00	287	171.00	314
48.00	4638	81.00	16084	126.00	305	172.00	529
49.00	35904	82.00	2649	127.00	243	174.00	739712
50.00	162880	83.00	551	128.00	2873	175.00	57152
51.00	53152	85.00	88	129.00	1232	176.00	728384
52.00	2274	86.00	1421	130.00	2708	177.00	49768
53.00	133	87.00	40848	131.00	1287	178.00	1468
54.00	95	88.00	39920	133.00	587	193.00	402
55.00	1998	91.00	2511	135.00	1062	205.00	100
56.00	10135	92.00	22832	136.00	131	207.00	219
57.00	20328	93.00	34848	137.00	1471	208.00	258
58.00	868	94.00	105208	139.00	162	238.00	103
59.00	104	95.00	938752	140.00	707	249.00	97
60.00	8598	96.00	63936	141.00	6057	265.00	85
61.00	41320	97.00	1966	142.00	1203	280.00	101
62.00	36696	98.00	197	143.00	6528	281.00	2859
63.00	27888	103.00	323	144.00	160	282.00	886
64.00	2516	104.00	2582	145.00	564	283.00	657
65.00	315	105.00	1082	146.00	1502	284.00	123
66.00	100	106.00	2932	147.00	611		
67.00	1774	107.00	538	148.00	2076		
68.00	81480	110.00	347	149.00	370		

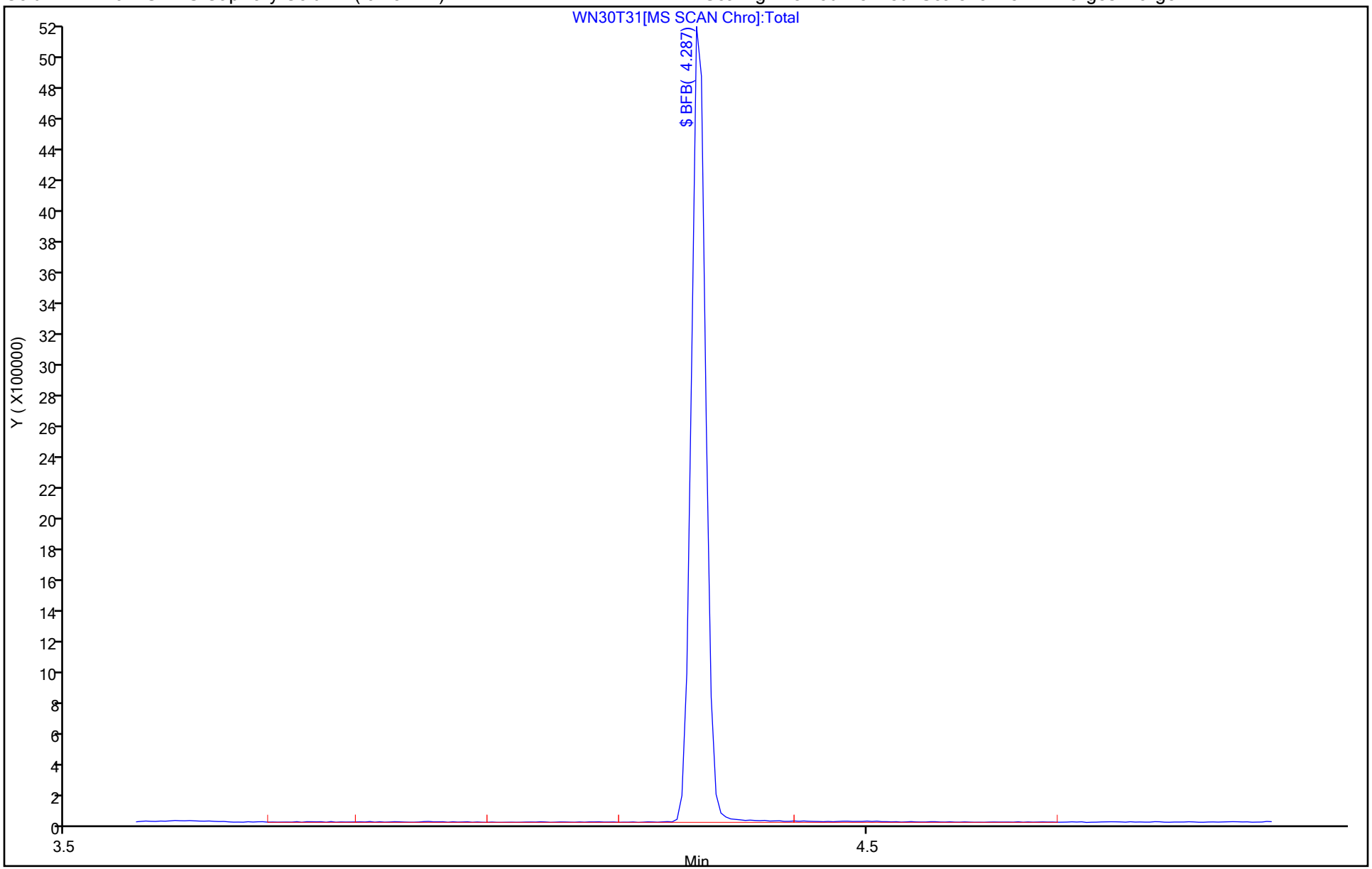
m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	7644	69.00	86136	111.00	504	150.00	1066
37.00	41352	70.00	6880	112.00	230	152.00	431
38.00	38048	71.00	375	113.00	563	153.00	429
39.00	14577	72.00	4568	115.00	1103	154.00	427
40.00	983	73.00	37072	116.00	2656	155.00	2537
41.00	248	74.00	140160	117.00	4058	156.00	134
42.00	83	75.00	439808	118.00	3091	157.00	1523
43.00	89	76.00	38112	119.00	3599	158.00	124
44.00	4082	77.00	4623	120.00	94	159.00	1327
45.00	7153	78.00	4144	122.00	147	161.00	948
46.00	390	79.00	15269	124.00	542	170.00	211
47.00	13294	80.00	5108	125.00	287	171.00	314
48.00	4638	81.00	16084	126.00	305	172.00	529
49.00	35904	82.00	2649	127.00	243	174.00	739712
50.00	162880	83.00	551	128.00	2873	175.00	57152
51.00	53152	85.00	88	129.00	1232	176.00	728384
52.00	2274	86.00	1421	130.00	2708	177.00	49768
53.00	133	87.00	40848	131.00	1287	178.00	1468
54.00	95	88.00	39920	133.00	587	193.00	402
55.00	1998	91.00	2511	135.00	1062	205.00	100
56.00	10135	92.00	22832	136.00	131	207.00	219
57.00	20328	93.00	34848	137.00	1471	208.00	258
58.00	868	94.00	105208	139.00	162	238.00	103
59.00	104	95.00	938752	140.00	707	249.00	97
60.00	8598	96.00	63936	141.00	6057	265.00	85
61.00	41320	97.00	1966	142.00	1203	280.00	101
62.00	36696	98.00	197	143.00	6528	281.00	2859
63.00	27888	103.00	323	144.00	160	282.00	886
64.00	2516	104.00	2582	145.00	564	283.00	657
65.00	315	105.00	1082	146.00	1502	284.00	123
66.00	100	106.00	2932	147.00	611		
67.00	1774	107.00	538	148.00	2076		
68.00	81480	110.00	347	149.00	370		

Report Date: 30-Nov-2022 20:56:18 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\9137\20221130-72248.b\WN30T31.D				
Injection Date:	30-Nov-2022 19:20:30	Instrument ID:	9137	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_9137	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.: 410-106360-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-322343/7

Matrix: Water Lab File ID: WN30X36.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 11/30/2022 21:13

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.: 322343 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
120-82-1	1,2,4-Trichlorobenzene	ND		5.0	0.30
95-63-6	1,2,4-Trimethylbenzene	ND		5.0	1.0
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	0.30
106-93-4	1,2-Dibromoethane	ND		1.0	0.20
95-50-1	1,2-Dichlorobenzene	ND		5.0	0.20
107-06-2	1,2-Dichloroethane	ND		1.0	0.30
78-87-5	1,2-Dichloropropane	ND		1.0	0.30
108-67-8	1,3,5-Trimethylbenzene	ND		5.0	0.30
541-73-1	1,3-Dichlorobenzene	ND		5.0	0.68
106-46-7	1,4-Dichlorobenzene	ND		5.0	0.30
78-93-3	2-Butanone	ND		10	0.50
591-78-6	2-Hexanone	ND		10	0.85
108-10-1	4-Methyl-2-pentanone	ND		10	0.50
67-64-1	Acetone	ND		20	0.70
71-43-2	Benzene	ND		1.0	0.30
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	0.20
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
110-82-7	Cyclohexane	ND		5.0	1.0
124-48-1	Dibromochloromethane	ND		1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-106360-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-322343/7

Matrix: Water Lab File ID: WN30X36.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 11/30/2022 21:13

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.: 322343 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
76-13-1	Freon 113	ND		10	0.30
98-82-8	Isopropylbenzene	ND		5.0	0.20
79-20-9	Methyl acetate	ND		5.0	0.30
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20
108-87-2	Methylcyclohexane	ND		5.0	0.50
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
108-88-3	Toluene	ND		1.0	0.20
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
75-69-4	Trichlorofluoromethane	ND		1.0	0.20
75-01-4	Vinyl chloride	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		80-120
460-00-4	4-Bromofluorobenzene (Surr)	92		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		80-120
2037-26-5	Toluene-d8 (Surr)	102		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20221130-72248.b\WN30X36.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 30-Nov-2022 21:13:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0072248-007
Misc. Info.: MB
Operator ID: mec29284 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20221130-72248.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 30-Nov-2022 21:37:29 Calib Date: 27-Oct-2022 17:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1622

First Level Reviewer: K4WN Date: 30-Nov-2022 21:37:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
A 1 C4-C10	1		(0.000-0.100)					ND	
A 2 C4-C12	1		(0.000-0.250)					ND	
3 Chlorotrifluoroethene	116		1.296					ND	
4 Chlorodifluoromethane	51		1.319					ND	7
5 Dichlorodifluoromethane	85		1.325					ND	
6 Chloromethane	50		1.457					ND	7
8 Butadiene	39		1.527					ND	7
7 Vinyl chloride	62		1.530					ND	
9 2-Chloro-1,1,1-Trifluoroethane	118		1.562					ND	7
10 Bromomethane	94		1.755					ND	7
11 Chloroethane	64		1.787					ND	7
12 Dichlorofluoromethane	67		1.941					ND	
13 Pentane	43		1.999					ND	7
14 Trichlorofluoromethane	101		2.002					ND	
16 Ethanol	45		2.115					ND	
15 Ethyl ether	59		2.150					ND	
17 1,2-Dichloro-1,1,2-trifluoroetha	67		2.188					ND	
18 Acrolein	56		2.252					ND	7
19 1,1-Dichloroethene	96		2.342					ND	7
20 Acetone	58		2.368					ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.381					ND	
23 Isopropyl alcohol	45		2.477					ND	
22 Iodomethane	142		2.483					ND	
24 Carbon disulfide	76		2.541					ND	7
25 3-Chloro-1-propene	41		2.647					ND	7
27 Methyl acetate	43		2.660					ND	7
26 Acetonitrile	41		2.666					ND	7
28 Methylene Chloride	84		2.753					ND	
* 29 t-Butyl alcohol-d10 (IS)	65	2.753	2.840	-0.087	9	471799	250.0	250.0	
30 2-Methyl-2-propanol	59		2.904					ND	
31 Acrylonitrile	53		2.968					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 trans-1,2-Dichloroethene	96		3.003					ND	
32 Methyl tert-butyl ether	73		3.013					ND	
34 Hexane	57		3.260					ND	7
35 1,1-Dichloroethane	63		3.388					ND	
36 Vinyl acetate	43		3.436					ND	7
37 Isopropyl ether	45		3.456					ND	7
38 2-Chloro-1,3-butadiene	53		3.472					ND	
39 Tert-butyl ethyl ether	59		3.802					ND	
40 cis-1,2-Dichloroethene	96		3.937					ND	
41 2-Butanone (MEK)	43		3.947					ND	7
42 2,2-Dichloropropane	77		3.966					ND	
44 Propionitrile	54		4.004					ND	
43 Ethyl acetate	43		4.014					ND	7
45 Methacrylonitrile	67		4.146					ND	7
46 Chlorobromomethane	128		4.158					ND	
47 Tetrahydrofuran	71		4.216					ND	7
48 Chloroform	83		4.245					ND	
$ 50 Dibromofluoromethane (Surr)	113	4.399	4.406	-0.007	92	300994	50.0	49.4	
51 1,1,1-Trichloroethane	97		4.434					ND	
52 Cyclohexane	56		4.502					ND	
53 1,1-Dichloropropene	75		4.598					ND	
54 Carbon tetrachloride	117		4.598					ND	
55 Isobutyl alcohol	41		4.710					ND	7
$ 56 1,2-Dichloroethane-d4 (Surr)	102	4.733	4.730	0.003	70	76887	50.0	47.1	
57 Benzene	78		4.797					ND	
58 1,2-Dichloroethane	62		4.810					ND	7
59 Isopropyl acetate	43		4.881					ND	7
60 Tert-amyl methyl ether	73		4.916					ND	
* 61 Fluorobenzene (IS)	96	5.076	5.076	0.000	99	1314783	50.0	50.0	
62 n-Heptane	43		5.079					ND	7
63 n-Butanol	56		5.384					ND	
64 Trichloroethene	95		5.452					ND	
65 Methylcyclohexane	83		5.657					ND	
66 1,2-Dichloropropane	63		5.676					ND	7
67 2-ethoxy-2-methyl butane	87		5.731					ND	
68 Dibromomethane	93		5.795					ND	7
69 Methyl methacrylate	69		5.814					ND	
70 1,4-Dioxane	88		5.821					ND	
71 n-Propyl acetate	61		5.885					ND	
72 Dichlorobromomethane	83		5.965					ND	7
S 73 1,2-Dichloroethene, Total	100		6.155					ND	7
74 2-Nitropropane	41		6.209					ND	7
75 2-Chloroethyl vinyl ether	63		6.299					ND	
A 76 C6-C10	1	6.394	(2.952-9.836)		0	4092727		NC	
77 cis-1,3-Dichloropropene	75		6.446					ND	7
78 4-Methyl-2-pentanone (MIBK)	43		6.623					ND	7
$ 79 Toluene-d8 (Surr)	98	6.739	6.738	0.001	93	1258164	50.0	51.0	
80 Toluene	92		6.806					ND	7
81 trans-1,3-Dichloropropene	75		7.053					ND	7
A 82 C5-C12	1	7.153	(2.686-11.621)		0	4290310		NC	
83 Ethyl methacrylate	69		7.178					ND	7
84 1,1,2-Trichloroethane	97		7.249					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
A 85 C6-C12	1	7.286	(2.952-11.621)		0	4290310		NC	
86 Tetrachloroethene	166		7.403				ND		
87 1,3-Dichloropropane	76		7.422				ND		
89 3,4-Dichloro-1-butene	75		7.470				ND		7
88 t-Amyl alcohol	73		7.493				ND		
90 2-Hexanone	43		7.521				ND		7
91 Chlorodibromomethane	129		7.647				ND		
92 n-Butyl acetate	43		7.666				ND		7
93 Ethylene Dibromide	107		7.749				ND		
* 94 Chlorobenzene-d5 (IS)	117	8.192	8.192	0.000	85	931496	50.0	50.0	
95 1-Chlorohexane	91		8.211				ND		U
96 Chlorobenzene	112		8.218				ND		
97 1,1,1,2-Tetrachloroethane	131		8.295				ND		
98 Ethylbenzene	91		8.327				ND		7
99 m-Xylene & p-Xylene	106		8.430				ND		
100 o-Xylene	106		8.766				ND		
101 Styrene	104		8.779				ND		
102 Bromoform	173		8.921				ND		
103 Isopropylbenzene	105		9.075				ND		
104 cis-1,4-Dichloro-2-butene	88		9.126				ND		
105 Cyclohexanone	55		9.139				ND		7
$ 106 4-Bromofluorobenzene (Surr)	95	9.187	9.190	-0.003	90	442134	50.0	46.0	
107 Bromobenzene	156		9.306				ND		
108 1,1,2,2-Tetrachloroethane	83		9.306				ND		
109 1,2,3-Trichloropropane	110		9.334				ND		
110 trans-1,4-Dichloro-2-butene	53		9.351				ND		7
111 N-Propylbenzene	91		9.395				ND		
112 2-Chlorotoluene	126		9.460				ND		
113 1,3,5-Trimethylbenzene	105		9.533				ND		
114 4-Chlorotoluene	126		9.543				ND		
115 2,3,4-Trichlorobutene	109		9.582				ND		
116 tert-Butylbenzene	134		9.781				ND		
117 Pentachloroethane	167		9.790				ND		
118 1,2,4-Trimethylbenzene	105		9.813				ND		7
119 sec-Butylbenzene	105		9.941				ND		
141 1,3-Dichlorobenzene	146		10.018				ND		
143 4-Isopropyltoluene	119		10.047				ND		
S 142 1,3-Dichloropropene, Total	100		10.060				ND		7
* 144 1,4-Dichlorobenzene-d4	152	10.063	10.063	0.000	96	509139	50.0	50.0	
145 1,4-Dichlorobenzene	146		10.079				ND		
146 1,2,3-Trimethylbenzene	105		10.121				ND		
147 Benzyl chloride	91		10.178				ND		7
148 1,3-Diethylbenzene	119		10.262				ND		
149 p-Diethylbenzene	119		10.320				ND		
150 n-Butylbenzene	92		10.339				ND		7
151 1,2-Dichlorobenzene	146		10.345				ND		
152 o-diethylbenzene	119		10.403				ND		
153 1,2-Dibromo-3-Chloropropane	75		10.881				ND		7
154 1,3,5-Trichlorobenzene	180		11.032				ND		
S 155 Xylenes, Total	106		11.245				ND		7
156 1,2,4-Trichlorobenzene	180		11.436				ND		
157 Hexachlorobutadiene	225		11.549				ND		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
158 Naphthalene	128		11.600					ND	7
159 1,2,3-Trichlorobenzene	180		11.757					ND	
160 2-Methylnaphthalene	142		12.322					ND	7
161 Hexachloroethane	201		13.560					ND	
162 tert-Butyl Formate	1		0.000					ND	
163 Methyl acrylate	1		0.000					ND	
164 2,3-Dichloro-1,3-butadiene	1		0.000					ND	
S 165 Total BTEX	1		0.000					ND	
166 3-chloro-1-Butene	1		0.000					ND	
167 1,1-Dichloro-1-fluoroethane	1		0.000					ND	
168 cis-1,2,3-Trichlorobutene-2	1		0.000					ND	
169 1-Chlorobutane	1		0.000					ND	
S 170 divinyl benzene	1		0.000					ND	7
171 1-Bromo-2-chloroethane	1		0.000					ND	
S 172 Total Diethylbenzene	1		0.000					ND	7
173 Ethyl bromide	1		0.000					ND	
174 Ethyl acrylate	55		0.000					ND	
175 1,3-Divinylbenzene	1		0.000					ND	
176 Propene oxide	1		0.000					ND	
177 trans-1,2,3-Trichlorobutene-2	1		0.000					ND	
178 3-Methyl-1-butene	1		0.000					ND	
179 Propanol	1		0.000					ND	
180 n-Nonane	1		0.000					ND	
181 Isobutyl acetate	43		0.000					ND	
182 n-Octane	1		0.000					ND	
183 Undecane	1		0.000					ND	
184 4-Ethyltoluene	1		0.000					ND	
185 sec-Butyl Alcohol	45		0.000					ND	
186 Diethoxymethane	1		0.000					ND	
187 1,4-Divinylbenzene	1		0.000					ND	
188 1,1,2,2-Tetrachloro-1,2-difluoro	1		0.000					ND	
192 Methylal	1		0.000					ND	
193 Chloroacetonitrile	1		0.000					ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MSV_Cent_ISSS_00011 Amount Added: 5.00 Units: uL Run Reagent

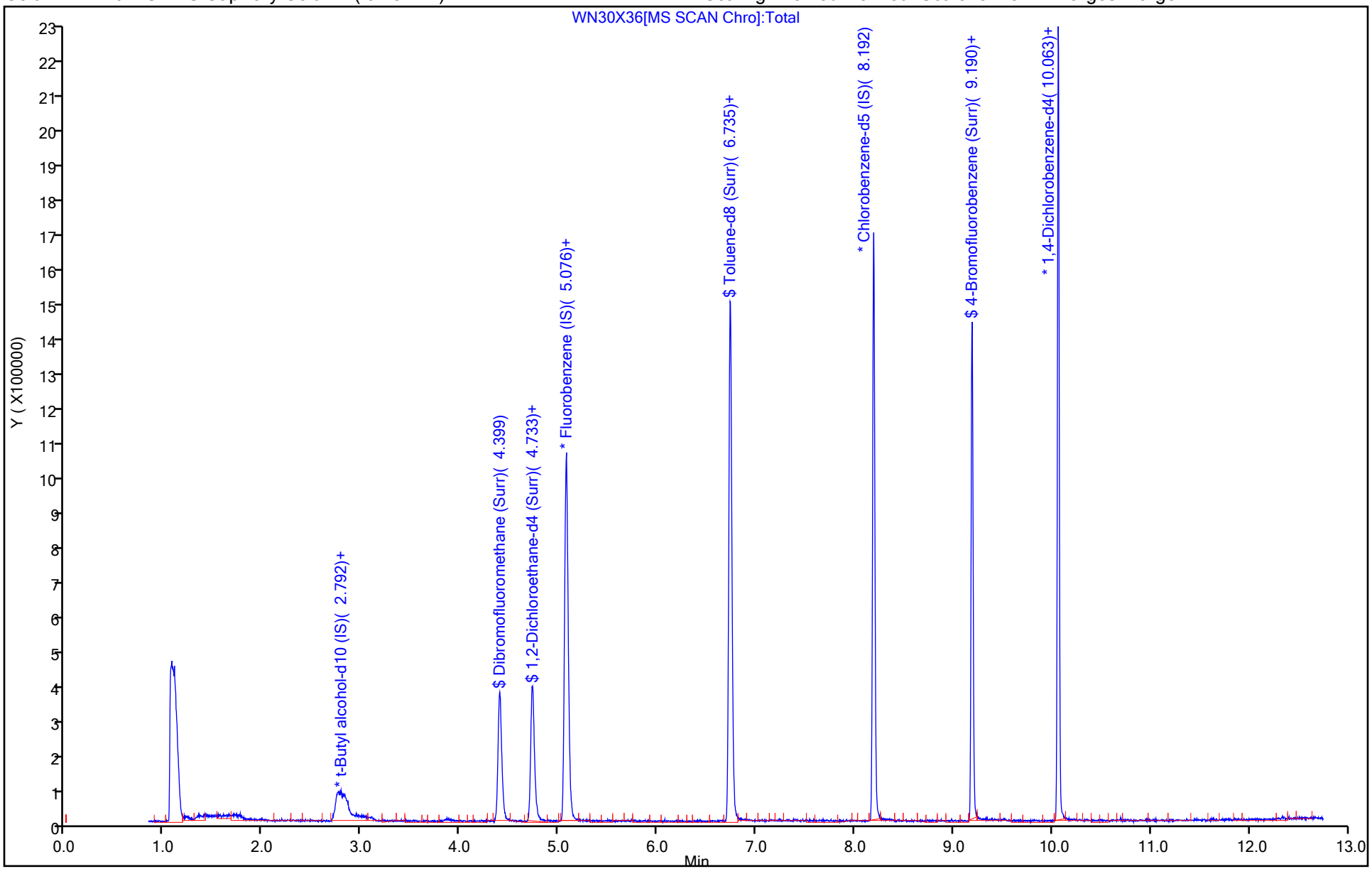
Report Date: 30-Nov-2022 21:37:38 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20221130-72248.b\WN30X36.D

Injection Date:	30-Nov-2022 21:13:30	Instrument ID:	9137	Operator ID:	mec29284
Lims ID:	MB			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	MSVoa_9137	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\9137\20221130-72248.b\WN30X36.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 30-Nov-2022 21:13:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0072248-007
Misc. Info.: MB
Operator ID: mec29284 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20221130-72248.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 30-Nov-2022 21:37:29 Calib Date: 27-Oct-2022 17:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1622

First Level Reviewer: K4WN Date: 30-Nov-2022 21:37:29

Compound	Amount Added	Amount Recovered	% Rec.
$ 50 Dibromofluoromethane (Surr)	50.0	49.4	98.88
$ 56 1,2-Dichloroethane-d4 (Surr)	50.0	47.1	94.30
$ 79 Toluene-d8 (Surr)	50.0	51.0	102.02
$ 106 4-Bromofluorobenzene (Surr)	50.0	46.0	92.05

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-106360-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-322343/4

Matrix: Water Lab File ID: WN30X33.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 11/30/2022 20:14

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.: 322343 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	18.6		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	20.3		1.0	0.30
79-00-5	1,1,2-Trichloroethane	20.2		1.0	0.30
75-34-3	1,1-Dichloroethane	19.4		1.0	0.30
75-35-4	1,1-Dichloroethene	19.8		1.0	0.30
120-82-1	1,2,4-Trichlorobenzene	22.0		5.0	0.30
95-63-6	1,2,4-Trimethylbenzene	22.1		5.0	1.0
96-12-8	1,2-Dibromo-3-Chloropropane	16.5		5.0	0.30
106-93-4	1,2-Dibromoethane	20.9		1.0	0.20
95-50-1	1,2-Dichlorobenzene	22.0		5.0	0.20
107-06-2	1,2-Dichloroethane	18.6		1.0	0.30
78-87-5	1,2-Dichloropropane	19.1		1.0	0.30
108-67-8	1,3,5-Trimethylbenzene	21.9		5.0	0.30
541-73-1	1,3-Dichlorobenzene	22.0		5.0	0.68
106-46-7	1,4-Dichlorobenzene	21.7		5.0	0.30
78-93-3	2-Butanone	212		10	0.50
591-78-6	2-Hexanone	245		10	0.85
108-10-1	4-Methyl-2-pentanone	226		10	0.50
67-64-1	Acetone	287		20	0.70
71-43-2	Benzene	19.9		1.0	0.30
75-27-4	Bromodichloromethane	17.7		1.0	0.20
75-25-2	Bromoform	18.4		4.0	1.0
74-83-9	Bromomethane	18.6		1.0	0.30
75-15-0	Carbon disulfide	21.2		5.0	0.30
56-23-5	Carbon tetrachloride	18.3		1.0	0.30
108-90-7	Chlorobenzene	21.0		1.0	0.30
75-00-3	Chloroethane	18.6		1.0	0.20
67-66-3	Chloroform	19.2		1.0	0.30
74-87-3	Chloromethane	18.7		2.0	0.55
156-59-2	cis-1,2-Dichloroethene	20.5		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	17.3		1.0	0.20
110-82-7	Cyclohexane	19.9		5.0	1.0
124-48-1	Dibromochloromethane	18.7		1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-106360-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-322343/4

Matrix: Water Lab File ID: WN30X33.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 11/30/2022 20:14

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.: 322343 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	13.9		1.0	0.20
100-41-4	Ethylbenzene	21.5		1.0	0.40
76-13-1	Freon 113	21.0		10	0.30
98-82-8	Isopropylbenzene	22.7		5.0	0.20
79-20-9	Methyl acetate	18.9		5.0	0.30
1634-04-4	Methyl tertiary butyl ether	19.8		1.0	0.20
108-87-2	Methylcyclohexane	20.6		5.0	0.50
75-09-2	Methylene Chloride	19.0		1.0	0.30
100-42-5	Styrene	20.9		5.0	0.30
127-18-4	Tetrachloroethene	22.1		1.0	0.30
108-88-3	Toluene	21.4		1.0	0.20
156-60-5	trans-1,2-Dichloroethene	18.8		2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	17.7		1.0	0.20
79-01-6	Trichloroethene	18.9		1.0	0.30
75-69-4	Trichlorofluoromethane	16.6		1.0	0.20
75-01-4	Vinyl chloride	17.9		1.0	0.20
1330-20-7	Xylenes, Total	65.2		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)	100		80-120
2037-26-5	Toluene-d8 (Surr)	104		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20221130-72248.b\WN30X33.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 30-Nov-2022 20:14:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0072248-004
Misc. Info.: LCS
Operator ID: mec29284 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20221130-72248.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 30-Nov-2022 20:56:05 Calib Date: 27-Oct-2022 17:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1622

First Level Reviewer: K4WN Date: 30-Nov-2022 20:52:58

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 Dichlorodifluoromethane	85	1.316	1.325	-0.009	97	237602	20.0	13.9	M
6 Chloromethane	50	1.454	1.457	-0.003	99	331903	20.0	18.7	
8 Butadiene	39	1.518	1.527	-0.009	91	369474	20.0	21.8	
7 Vinyl chloride	62	1.524	1.530	-0.006	97	302287	20.0	17.9	
10 Bromomethane	94	1.742	1.755	-0.013	90	180832	20.0	18.6	
11 Chloroethane	64	1.781	1.787	-0.006	100	156360	20.0	18.6	
12 Dichlorofluoromethane	67	1.928	1.941	-0.013	97	372815	20.0	19.2	
13 Pentane	43	1.989	1.999	-0.010	98	279733	20.0	19.6	
14 Trichlorofluoromethane	101	1.996	2.002	-0.006	92	279337	20.0	16.6	
17 1,2-Dichloro-1,1,2-trifluoroetha	67	2.182	2.188	-0.006	96	208961	20.0	18.3	
18 Acrolein	56	2.246	2.252	-0.006	99	439511	149.9	190.2	
19 1,1-Dichloroethene	96	2.333	2.342	-0.009	98	151163	20.0	19.8	
20 Acetone	58	2.362	2.368	-0.006	100	369697	250.0	286.5	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.374	2.381	-0.007	92	171193	20.0	21.0	
23 Isopropyl alcohol	45	2.468	2.477	-0.009	35	175820	150.0	125.6	M
22 Iodomethane	142	2.471	2.483	-0.012	100	252297	20.0	21.7	
24 Carbon disulfide	76	2.538	2.541	-0.003	99	488262	20.0	21.2	
25 3-Chloro-1-propene	41	2.638	2.647	-0.009	95	262628	20.0	19.3	
27 Methyl acetate	43	2.657	2.660	-0.003	98	210041	20.0	18.9	
28 Methylene Chloride	84	2.747	2.753	-0.006	93	162718	20.0	19.0	
* 29 t-Butyl alcohol-d10 (IS)	65	2.833	2.840	-0.007	86	501832	250.0	250.0	
30 2-Methyl-2-propanol	59	2.824	2.904	-0.080	96	471511	200.0	204.6	
31 Acrylonitrile	53	2.965	2.968	-0.003	98	546612	100.0	92.6	
33 trans-1,2-Dichloroethene	96	2.994	3.003	-0.009	98	142996	20.0	18.8	
32 Methyl tert-butyl ether	73	2.991	3.013	-0.022	90	522497	20.0	19.8	
34 Hexane	57	3.250	3.260	-0.010	94	211476	20.0	19.0	
35 1,1-Dichloroethane	63	3.379	3.388	-0.009	96	272185	20.0	19.4	
37 Isopropyl ether	45	3.453	3.456	-0.003	95	568120	20.0	20.2	
38 2-Chloro-1,3-butadiene	53	3.469	3.472	-0.003	91	253212	20.0	19.5	
39 Tert-butyl ethyl ether	59	3.799	3.802	-0.003	99	528474	20.0	19.8	
40 cis-1,2-Dichloroethene	96	3.931	3.937	-0.006	53	170097	20.0	20.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 2-Butanone (MEK)	43	3.937	3.947	-0.010	100	1789609	250.0	212.1	
42 2,2-Dichloropropane	77	3.950	3.966	-0.016	72	257203	20.0	18.4	
44 Propionitrile	54	3.992	4.004	-0.012	99	354130	150.0	180.5	
45 Methacrylonitrile	67	4.146	4.146	0.000	91	770053	150.0	143.4	
46 Chlorobromomethane	128	4.155	4.158	-0.003	97	79369	20.0	20.6	
47 Tetrahydrofuran	71	4.210	4.216	-0.006	87	195292	100.0	128.4	
48 Chloroform	83	4.239	4.245	-0.006	92	252283	20.0	19.2	
$ 50 Dibromofluoromethane (Surr)	113	4.396	4.406	-0.010	94	308763	50.0	49.9	
51 1,1,1-Trichloroethane	97	4.438	4.434	0.004	98	241144	20.0	18.6	
52 Cyclohexane	56	4.499	4.502	-0.003	92	338742	20.0	19.9	
53 1,1-Dichloropropene	75	4.592	4.598	-0.006	97	222159	20.0	19.8	
54 Carbon tetrachloride	117	4.589	4.598	-0.009	76	184445	20.0	18.3	
55 Isobutyl alcohol	41	4.701	4.710	-0.009	93	328625	500.0	492.4	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	4.727	4.730	-0.003	92	82992	50.0	50.0	
57 Benzene	78	4.794	4.797	-0.003	96	651489	20.0	19.9	
58 1,2-Dichloroethane	62	4.807	4.810	-0.003	90	188122	20.0	18.6	
60 Tert-amyl methyl ether	73	4.913	4.916	-0.003	99	510807	20.0	19.9	
* 61 Fluorobenzene (IS)	96	5.073	5.076	-0.003	98	1337120	50.0	50.0	
62 n-Heptane	43	5.076	5.079	-0.003	75	189903	20.0	18.6	
63 n-Butanol	56	5.378	5.384	-0.006	90	558577	1000.0	968.6	
64 Trichloroethene	95	5.452	5.452	0.000	98	150169	20.0	18.9	
65 Methylcyclohexane	83	5.657	5.657	0.000	93	278391	20.0	20.6	
66 1,2-Dichloropropane	63	5.676	5.676	0.000	95	164788	20.0	19.1	
67 2-ethoxy-2-methyl butane	87	5.728	5.731	-0.003	94	230255	20.0	19.7	
68 Dibromomethane	93	5.795	5.795	0.000	97	95156	20.0	18.7	
69 Methyl methacrylate	69	5.818	5.814	0.004	93	143031	20.0	17.1	
70 1,4-Dioxane	88	5.821	5.821	0.000	43	79338	500.0	585.1	
72 Dichlorobromomethane	83	5.965	5.965	0.000	99	168509	20.0	17.7	
74 2-Nitropropane	41	6.209	6.209	0.000	98	45820	20.0	16.4	
75 2-Chloroethyl vinyl ether	63	6.296	6.299	-0.003	92	108206	20.0	17.1	
77 cis-1,3-Dichloropropene	75	6.443	6.446	-0.003	95	216549	20.0	17.3	
78 4-Methyl-2-pentanone (MIBK)	43	6.620	6.623	-0.003	97	3664598	250.0	225.6	
$ 79 Toluene-d8 (Surr)	98	6.735	6.738	-0.003	93	1296564	50.0	51.9	
80 Toluene	92	6.809	6.806	0.003	99	387966	20.0	21.4	
81 trans-1,3-Dichloropropene	75	7.056	7.053	0.003	93	187453	20.0	17.7	
83 Ethyl methacrylate	69	7.175	7.178	-0.003	90	230930	20.0	19.0	
84 1,1,2-Trichloroethane	97	7.249	7.249	0.000	88	135968	20.0	20.2	
86 Tetrachloroethene	166	7.400	7.403	-0.003	97	153331	20.0	22.1	
87 1,3-Dichloropropane	76	7.419	7.422	-0.003	91	236355	20.0	21.0	
90 2-Hexanone	43	7.518	7.521	-0.003	97	2515537	250.0	245.0	
91 Chlorodibromomethane	129	7.640	7.647	-0.007	90	119138	20.0	18.7	
93 Ethylene Dibromide	107	7.746	7.749	-0.003	99	140269	20.0	20.9	
* 94 Chlorobenzene-d5 (IS)	117	8.192	8.192	0.000	87	943648	50.0	50.0	
95 1-Chlorohexane	91	8.211	8.211	0.000	96	199171	20.0	20.4	
96 Chlorobenzene	112	8.218	8.218	0.000	98	386738	20.0	21.0	
97 1,1,1,2-Tetrachloroethane	131	8.298	8.295	0.003	96	141984	20.0	20.5	
98 Ethylbenzene	91	8.321	8.327	-0.006	99	736076	20.0	21.5	
99 m-Xylene & p-Xylene	106	8.426	8.430	-0.004	100	563153	40.0	43.8	
100 o-Xylene	106	8.770	8.766	0.004	97	290366	20.0	21.4	
101 Styrene	104	8.776	8.779	-0.003	94	441024	20.0	20.9	
102 Bromoform	173	8.921	8.921	0.000	97	87624	20.0	18.4	
103 Isopropylbenzene	105	9.075	9.075	0.000	96	769753	20.0	22.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 106 4-Bromofluorobenzene (Surr)	95	9.187	9.190	-0.003	89	458553	50.0	47.1	
107 Bromobenzene	156	9.302	9.306	-0.004	93	167480	20.0	22.5	
108 1,1,2,2-Tetrachloroethane	83	9.306	9.306	0.000	95	252944	20.0	20.3	
109 1,2,3-Trichloropropane	110	9.338	9.334	0.004	84	67929	20.0	19.0	
110 trans-1,4-Dichloro-2-butene	53	9.351	9.351	0.001	93	256660	100.0	67.3	
111 N-Propylbenzene	91	9.396	9.395	0.001	99	841235	20.0	22.4	
112 2-Chlorotoluene	126	9.460	9.460	0.000	96	166718	20.0	21.8	
113 1,3,5-Trimethylbenzene	105	9.534	9.533	0.001	95	601702	20.0	21.9	
114 4-Chlorotoluene	126	9.540	9.543	-0.003	98	163004	20.0	21.8	
116 tert-Butylbenzene	134	9.777	9.781	-0.003	92	116507	20.0	23.0	
118 1,2,4-Trimethylbenzene	105	9.816	9.813	0.003	97	624986	20.0	22.1	
119 sec-Butylbenzene	105	9.941	9.941	0.000	94	742003	20.0	23.4	
141 1,3-Dichlorobenzene	146	10.015	10.018	-0.003	98	306339	20.0	22.0	
143 4-Isopropyltoluene	119	10.047	10.047	0.000	97	621437	20.0	23.1	
* 144 1,4-Dichlorobenzene-d4	152	10.063	10.063	0.000	95	511358	50.0	50.0	
145 1,4-Dichlorobenzene	146	10.082	10.079	0.003	96	316593	20.0	21.7	
146 1,2,3-Trimethylbenzene	105	10.121	10.121	0.000	98	637467	20.0	21.8	
147 Benzyl chloride	91	10.182	10.178	0.004	98	398431	20.0	16.4	
148 1,3-Diethylbenzene	119	10.259	10.262	-0.003	95	368507	20.0	22.7	
149 p-Diethylbenzene	119	10.320	10.320	0.000	95	375230	20.0	22.9	
150 n-Butylbenzene	92	10.336	10.339	-0.003	98	296026	20.0	22.0	
151 1,2-Dichlorobenzene	146	10.345	10.345	0.000	98	315894	20.0	22.0	
152 o-diethylbenzene	119	10.403	10.403	0.000	95	297051	20.0	21.9	
153 1,2-Dibromo-3-Chloropropane	75	10.884	10.881	0.003	83	57530	20.0	16.5	
154 1,3,5-Trichlorobenzene	180	11.029	11.032	-0.003	98	221591	20.0	22.9	
156 1,2,4-Trichlorobenzene	180	11.440	11.436	0.004	94	211625	20.0	22.0	
157 Hexachlorobutadiene	225	11.549	11.549	0.000	95	78120	20.0	23.4	
158 Naphthalene	128	11.603	11.600	0.003	97	874265	20.0	20.7	
159 1,2,3-Trichlorobenzene	180	11.757	11.757	0.000	97	226381	20.0	22.6	
160 2-Methylnaphthalene	142	12.322	12.322	0.000	92	481412	20.0	20.9	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LCS_2CEVE_00089	Amount Added: 50.00	Units: uL	
MSV_LCS_ACROL_00086	Amount Added: 50.00	Units: uL	
MSV_LCS_Gases_00116	Amount Added: 50.00	Units: uL	
MSV_LCS_VOC#1_00084	Amount Added: 50.00	Units: uL	
MSV_Cent_ISSS_00011	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 30-Nov-2022 20:56:10 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20221130-72248.b\WN30X33.D

Injection Date: 30-Nov-2022 20:14:30 Instrument ID: 9137 Operator ID: mec29284

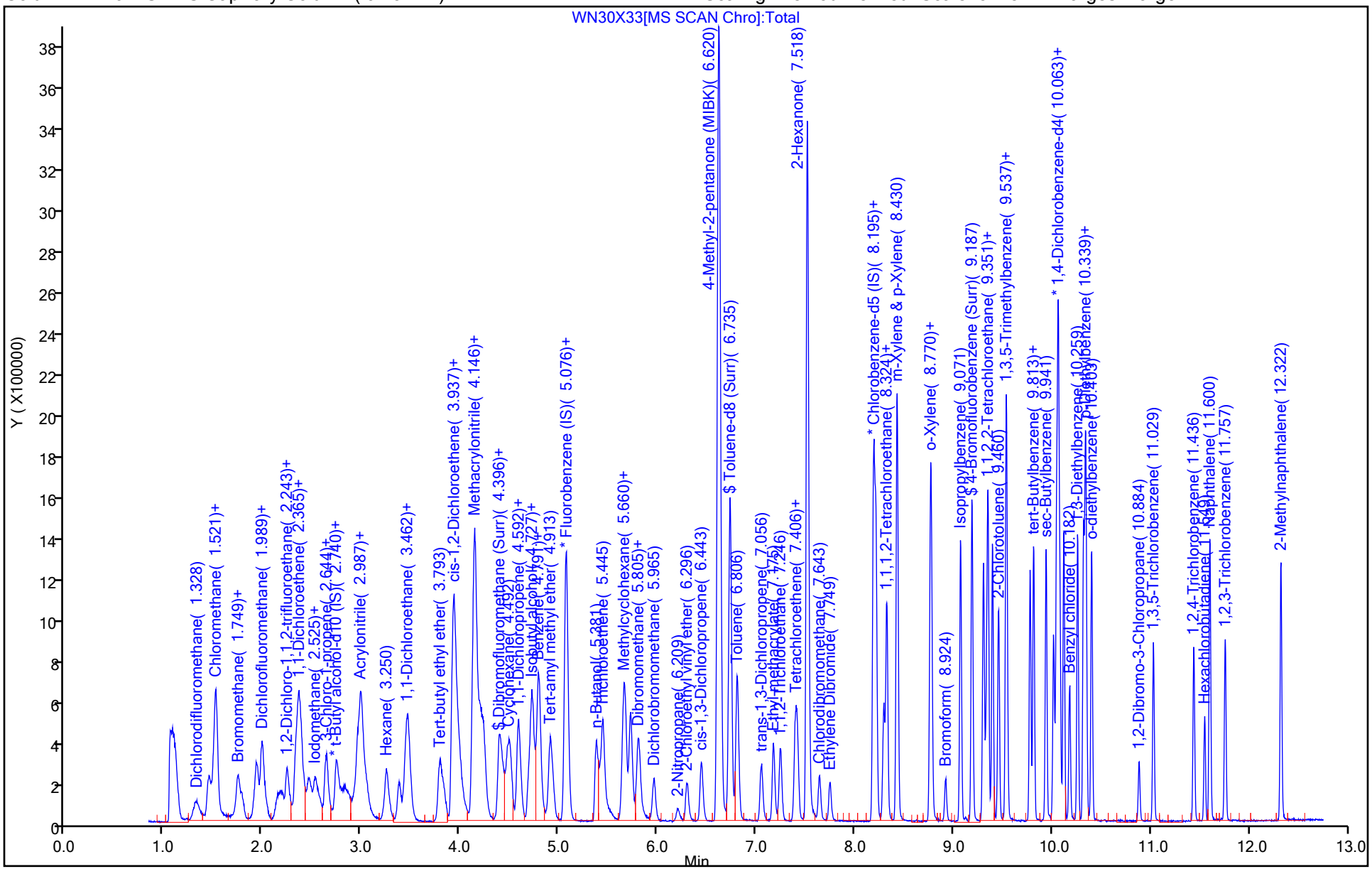
Lims ID: LCS Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 3

Method: MSVoa_9137 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\9137\20221130-72248.b\WN30X33.D				
Lims ID:	LCS				
Client ID:					
Sample Type:	LCS				
Inject. Date:	30-Nov-2022 20:14:30	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0072248-004				
Misc. Info.:	LCS				
Operator ID:	mec29284	Instrument ID:	9137		
Method:	\\chromfs\Lancaster\ChromData\9137\20221130-72248.b\MSVoa_9137.m				
Limit Group:	MSV - 8260C_D				
Last Update:	30-Nov-2022 20:56:05	Calib Date:	27-Oct-2022 17:46:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1622				

First Level Reviewer: K4WN Date: 30-Nov-2022 20:52:58

Compound	Amount Added	Amount Recovered	% Rec.
$ 50 Dibromofluoromethane (Surr)	50.0	49.9	99.74
$ 56 1,2-Dichloroethane-d4 (Surr)	50.0	50.0	100.09
$ 79 Toluene-d8 (Surr)	50.0	51.9	103.78
$ 106 4-Bromofluorobenzene (Surr)	50.0	47.1	94.24

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

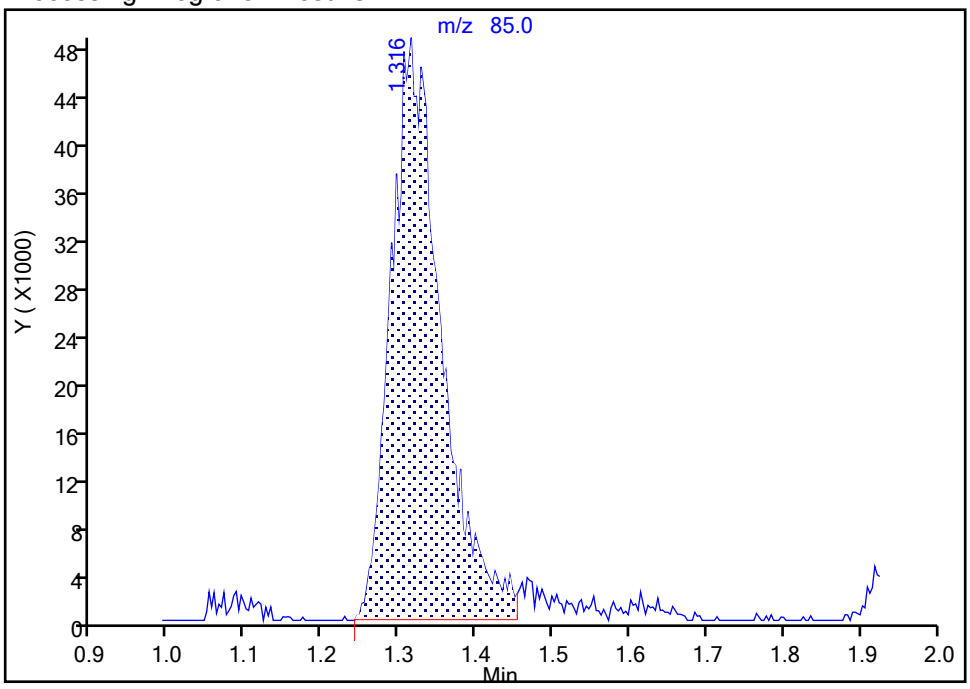
Data File:	\\chromfs\Lancaster\ChromData\9137\20221130-72248.b\WN30X33.D				
Injection Date:	30-Nov-2022 20:14:30	Instrument ID:	9137		
Lims ID:	LCS				
Client ID:					
Operator ID:	mec29284	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

5 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

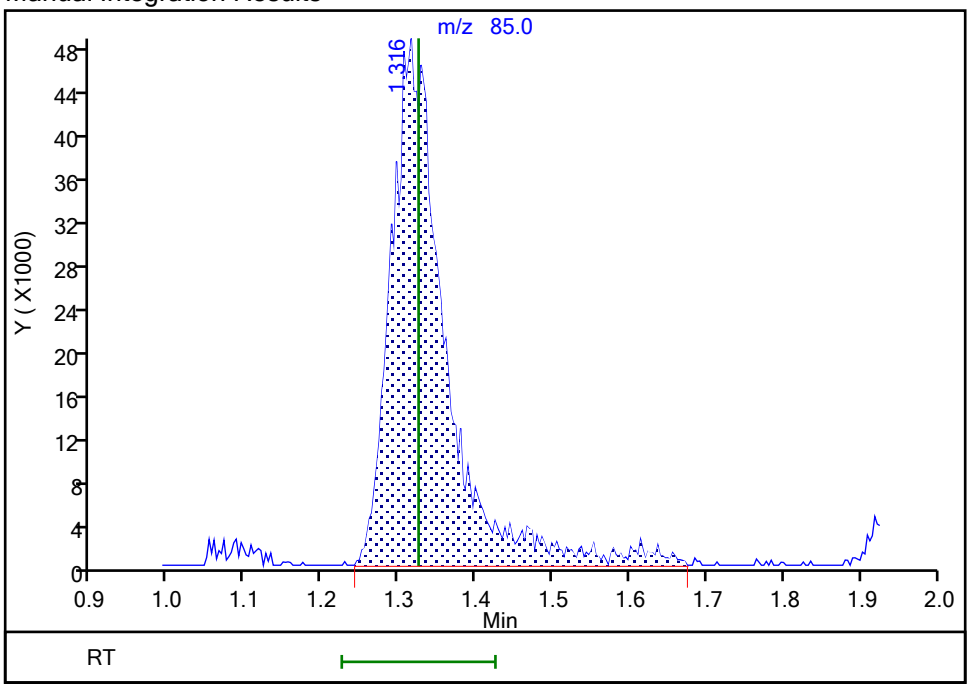
Processing Integration Results

RT: 1.32
Area: 220461
Amount: 12.921231
Amount Units: ug/l



Manual Integration Results

RT: 1.32
Area: 237602
Amount: 13.925866
Amount Units: ug/l



Reviewer: K4WN, 30-Nov-2022 20:52:07
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-106360-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 410-322343/5

Matrix: Water Lab File ID: WN30X34.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 11/30/2022 20:34

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.: 322343 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	18.8		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	20.5		1.0	0.30
79-00-5	1,1,2-Trichloroethane	19.4		1.0	0.30
75-34-3	1,1-Dichloroethane	19.6		1.0	0.30
75-35-4	1,1-Dichloroethene	19.1		1.0	0.30
120-82-1	1,2,4-Trichlorobenzene	22.4		5.0	0.30
95-63-6	1,2,4-Trimethylbenzene	22.0		5.0	1.0
96-12-8	1,2-Dibromo-3-Chloropropane	16.6		5.0	0.30
106-93-4	1,2-Dibromoethane	20.9		1.0	0.20
95-50-1	1,2-Dichlorobenzene	22.2		5.0	0.20
107-06-2	1,2-Dichloroethane	18.6		1.0	0.30
78-87-5	1,2-Dichloropropane	19.5		1.0	0.30
108-67-8	1,3,5-Trimethylbenzene	21.6		5.0	0.30
541-73-1	1,3-Dichlorobenzene	21.7		5.0	0.68
106-46-7	1,4-Dichlorobenzene	21.7		5.0	0.30
78-93-3	2-Butanone	219		10	0.50
591-78-6	2-Hexanone	242		10	0.85
108-10-1	4-Methyl-2-pentanone	230		10	0.50
67-64-1	Acetone	275		20	0.70
71-43-2	Benzene	20.0		1.0	0.30
75-27-4	Bromodichloromethane	18.0		1.0	0.20
75-25-2	Bromoform	17.8		4.0	1.0
74-83-9	Bromomethane	18.6		1.0	0.30
75-15-0	Carbon disulfide	20.8		5.0	0.30
56-23-5	Carbon tetrachloride	18.1		1.0	0.30
108-90-7	Chlorobenzene	21.0		1.0	0.30
75-00-3	Chloroethane	18.7		1.0	0.20
67-66-3	Chloroform	19.2		1.0	0.30
74-87-3	Chloromethane	19.0		2.0	0.55
156-59-2	cis-1,2-Dichloroethene	20.6		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	17.2		1.0	0.20
110-82-7	Cyclohexane	20.3		5.0	1.0
124-48-1	Dibromochloromethane	18.6		1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-106360-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 410-322343/5

Matrix: Water Lab File ID: WN30X34.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 11/30/2022 20:34

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.: 322343 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	14.0		1.0	0.20
100-41-4	Ethylbenzene	21.7		1.0	0.40
76-13-1	Freon 113	20.9		10	0.30
98-82-8	Isopropylbenzene	22.3		5.0	0.20
79-20-9	Methyl acetate	23.2		5.0	0.30
1634-04-4	Methyl tertiary butyl ether	20.1		1.0	0.20
108-87-2	Methylcyclohexane	21.1		5.0	0.50
75-09-2	Methylene Chloride	19.3		1.0	0.30
100-42-5	Styrene	20.7		5.0	0.30
127-18-4	Tetrachloroethene	22.1		1.0	0.30
108-88-3	Toluene	20.5		1.0	0.20
156-60-5	trans-1,2-Dichloroethene	19.8		2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	18.0		1.0	0.20
79-01-6	Trichloroethene	19.6		1.0	0.30
75-69-4	Trichlorofluoromethane	16.6		1.0	0.20
75-01-4	Vinyl chloride	17.8		1.0	0.20
1330-20-7	Xylenes, Total	64.5		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)	94		80-120
1868-53-7	Dibromofluoromethane (Surr)	101		80-120
2037-26-5	Toluene-d8 (Surr)	104		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20221130-72248.b\WN30X34.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 30-Nov-2022 20:34:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0072248-005
Misc. Info.: LCSD
Operator ID: mec29284 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20221130-72248.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 30-Nov-2022 20:56:05 Calib Date: 27-Oct-2022 17:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1622

First Level Reviewer: K4WN Date: 30-Nov-2022 20:55:46

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 Dichlorodifluoromethane	85	1.316	1.325	-0.009	97	236632	20.0	14.0	M
6 Chloromethane	50	1.450	1.457	-0.007	100	333973	20.0	19.0	
8 Butadiene	39	1.518	1.527	-0.009	94	343709	20.0	20.5	
7 Vinyl chloride	62	1.518	1.530	-0.012	91	298141	20.0	17.8	
10 Bromomethane	94	1.739	1.755	-0.016	91	179282	20.0	18.6	
11 Chloroethane	64	1.781	1.787	-0.006	99	156148	20.0	18.7	
12 Dichlorofluoromethane	67	1.932	1.941	-0.009	97	374150	20.0	19.4	
13 Pentane	43	1.983	1.999	-0.016	97	274989	20.0	19.5	
14 Trichlorofluoromethane	101	1.989	2.002	-0.013	91	276564	20.0	16.6	
17 1,2-Dichloro-1,1,2-trifluoroetha	67	2.179	2.188	-0.009	94	208975	20.0	18.4	
18 Acrolein	56	2.236	2.252	-0.016	99	440279	149.9	177.6	
19 1,1-Dichloroethene	96	2.330	2.342	-0.012	87	144494	20.0	19.1	
20 Acetone	58	2.365	2.368	-0.003	100	380498	250.0	274.9	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.378	2.381	-0.003	92	168597	20.0	20.9	
23 Isopropyl alcohol	45	2.480	2.477	0.003	38	186731	150.0	124.4	M
22 Iodomethane	142	2.464	2.483	-0.019	96	251200	20.0	21.8	
24 Carbon disulfide	76	2.532	2.541	-0.009	99	475025	20.0	20.8	
25 3-Chloro-1-propene	41	2.638	2.647	-0.009	93	259733	20.0	19.3	
27 Methyl acetate	43	2.644	2.660	-0.016	96	255705	20.0	23.2	
28 Methylene Chloride	84	2.740	2.753	-0.013	93	163486	20.0	19.3	
* 29 t-Butyl alcohol-d10 (IS)	65	2.753	2.840	-0.087	92	538436	250.0	250.0	
30 2-Methyl-2-propanol	59	2.833	2.904	-0.071	95	528520	200.0	213.7	
31 Acrylonitrile	53	2.955	2.968	-0.013	100	564196	100.0	96.3	
33 trans-1,2-Dichloroethene	96	2.994	3.003	-0.009	99	149544	20.0	19.8	
32 Methyl tert-butyl ether	73	2.984	3.013	-0.029	90	526443	20.0	20.1	
34 Hexane	57	3.244	3.260	-0.016	92	209495	20.0	19.0	
35 1,1-Dichloroethane	63	3.379	3.388	-0.009	95	273982	20.0	19.6	
37 Isopropyl ether	45	3.449	3.456	-0.007	97	565385	20.0	20.2	
38 2-Chloro-1,3-butadiene	53	3.465	3.472	-0.007	91	245958	20.0	19.1	
39 Tert-butyl ethyl ether	59	3.796	3.802	-0.006	95	526269	20.0	19.9	
40 cis-1,2-Dichloroethene	96	3.931	3.937	-0.006	65	169090	20.0	20.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 2-Butanone (MEK)	43	3.937	3.947	-0.010	100	1830478	250.0	218.7	
42 2,2-Dichloropropane	77	3.940	3.966	-0.026	87	251773	20.0	18.2	
44 Propionitrile	54	3.998	4.004	-0.006	98	370594	150.0	176.1	
45 Methacrylonitrile	67	4.146	4.146	0.000	91	758181	150.0	142.3	
46 Chlorobromomethane	128	4.152	4.158	-0.006	97	79063	20.0	20.7	
47 Tetrahydrofuran	71	4.204	4.216	-0.012	81	197043	100.0	120.7	
48 Chloroform	83	4.242	4.245	-0.003	80	250276	20.0	19.2	
$ 50 Dibromofluoromethane (Surr)	113	4.393	4.406	-0.013	94	309235	50.0	50.3	
51 1,1,1-Trichloroethane	97	4.428	4.434	-0.006	97	241506	20.0	18.8	
52 Cyclohexane	56	4.502	4.502	0.000	90	342414	20.0	20.3	
53 1,1-Dichloropropene	75	4.589	4.598	-0.009	97	223192	20.0	20.0	
54 Carbon tetrachloride	117	4.598	4.598	0.000	96	181455	20.0	18.1	
55 Isobutyl alcohol	41	4.701	4.710	-0.009	96	366543	500.0	511.9	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	4.723	4.730	-0.007	91	85123	50.0	51.7	
57 Benzene	78	4.788	4.797	-0.009	95	650922	20.0	20.0	
58 1,2-Dichloroethane	62	4.804	4.810	-0.006	97	186131	20.0	18.6	
60 Tert-amyl methyl ether	73	4.909	4.916	-0.007	98	514104	20.0	20.2	
* 61 Fluorobenzene (IS)	96	5.070	5.076	-0.006	99	1326599	50.0	50.0	
62 n-Heptane	43	5.083	5.079	0.004	92	181694	20.0	17.9	
63 n-Butanol	56	5.375	5.384	-0.009	87	594864	1000.0	961.4	
64 Trichloroethene	95	5.449	5.452	-0.003	99	154531	20.0	19.6	
65 Methylcyclohexane	83	5.654	5.657	-0.003	93	283068	20.0	21.1	
66 1,2-Dichloropropane	63	5.676	5.676	0.000	97	167225	20.0	19.5	
67 2-ethoxy-2-methyl butane	87	5.725	5.731	-0.006	93	233815	20.0	20.1	
68 Dibromomethane	93	5.789	5.795	-0.006	96	92431	20.0	18.3	
69 Methyl methacrylate	69	5.811	5.814	-0.003	95	146086	20.0	17.6	
70 1,4-Dioxane	88	5.821	5.821	0.000	72	84084	500.0	577.9	
72 Dichlorobromomethane	83	5.968	5.965	0.003	99	169770	20.0	18.0	
74 2-Nitropropane	41	6.199	6.209	-0.010	99	42939	20.0	14.3	
75 2-Chloroethyl vinyl ether	63	6.296	6.299	-0.003	91	107553	20.0	17.1	
77 cis-1,3-Dichloropropene	75	6.447	6.446	0.001	96	213557	20.0	17.2	
78 4-Methyl-2-pentanone (MIBK)	43	6.623	6.623	0.000	97	3710651	250.0	230.2	
$ 79 Toluene-d8 (Surr)	98	6.735	6.738	-0.003	92	1312633	50.0	51.8	
80 Toluene	92	6.809	6.806	0.003	97	377636	20.0	20.5	
81 trans-1,3-Dichloropropene	75	7.053	7.053	0.000	93	193156	20.0	18.0	
83 Ethyl methacrylate	69	7.178	7.178	0.000	91	240888	20.0	19.5	
84 1,1,2-Trichloroethane	97	7.249	7.249	0.000	89	132568	20.0	19.4	
86 Tetrachloroethene	166	7.396	7.403	-0.007	98	155568	20.0	22.1	
87 1,3-Dichloropropane	76	7.419	7.422	-0.003	90	228689	20.0	20.0	
90 2-Hexanone	43	7.518	7.521	-0.003	97	2518404	250.0	241.9	
91 Chlorodibromomethane	129	7.643	7.647	-0.004	90	120136	20.0	18.6	
93 Ethylene Dibromide	107	7.746	7.749	-0.003	98	142303	20.0	20.9	
* 94 Chlorobenzene-d5 (IS)	117	8.192	8.192	0.000	86	957141	50.0	50.0	
95 1-Chlorohexane	91	8.208	8.211	-0.003	95	199047	20.0	20.1	
96 Chlorobenzene	112	8.218	8.218	0.000	94	392242	20.0	21.0	
97 1,1,1,2-Tetrachloroethane	131	8.295	8.295	0.000	96	137349	20.0	19.5	
98 Ethylbenzene	91	8.324	8.327	-0.003	98	752081	20.0	21.7	
99 m-Xylene & p-Xylene	106	8.430	8.430	0.000	99	562187	40.0	43.1	
100 o-Xylene	106	8.767	8.766	0.001	97	294359	20.0	21.4	
101 Styrene	104	8.776	8.779	-0.003	94	441546	20.0	20.7	
102 Bromoform	173	8.924	8.921	0.003	96	86216	20.0	17.8	
103 Isopropylbenzene	105	9.075	9.075	0.000	96	766745	20.0	22.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 106 4-Bromofluorobenzene (Surr)	95	9.187	9.190	-0.003	89	465102	50.0	47.1	
107 Bromobenzene	156	9.302	9.306	-0.004	94	164102	20.0	21.9	
108 1,1,2,2-Tetrachloroethane	83	9.306	9.306	0.000	93	257460	20.0	20.5	
109 1,2,3-Trichloropropane	110	9.335	9.334	0.001	86	73874	20.0	20.5	
110 trans-1,4-Dichloro-2-butene	53	9.351	9.351	0.001	94	276038	100.0	71.8	
111 N-Propylbenzene	91	9.396	9.395	0.001	99	860440	20.0	22.7	
112 2-Chlorotoluene	126	9.460	9.460	0.000	96	165974	20.0	21.5	
113 1,3,5-Trimethylbenzene	105	9.534	9.533	0.001	95	599706	20.0	21.6	
114 4-Chlorotoluene	126	9.543	9.543	0.000	99	165630	20.0	21.9	
116 tert-Butylbenzene	134	9.777	9.781	-0.003	93	115093	20.0	22.6	
118 1,2,4-Trimethylbenzene	105	9.813	9.813	0.000	97	627402	20.0	22.0	
119 sec-Butylbenzene	105	9.941	9.941	0.000	94	751765	20.0	23.6	
141 1,3-Dichlorobenzene	146	10.018	10.018	0.000	99	305482	20.0	21.7	
143 4-Isopropyltoluene	119	10.047	10.047	0.000	97	632651	20.0	23.3	
* 144 1,4-Dichlorobenzene-d4	152	10.063	10.063	0.000	96	515667	50.0	50.0	
145 1,4-Dichlorobenzene	146	10.082	10.079	0.003	96	318517	20.0	21.7	
146 1,2,3-Trimethylbenzene	105	10.121	10.121	0.000	98	647674	20.0	22.0	
147 Benzyl chloride	91	10.179	10.178	0.001	98	399999	20.0	16.3	
148 1,3-Diethylbenzene	119	10.259	10.262	-0.003	96	365534	20.0	22.4	
149 p-Diethylbenzene	119	10.320	10.320	0.000	94	376251	20.0	22.8	
150 n-Butylbenzene	92	10.336	10.339	-0.003	98	299240	20.0	22.1	
151 1,2-Dichlorobenzene	146	10.349	10.345	0.004	97	320436	20.0	22.2	
152 o-diethylbenzene	119	10.403	10.403	0.000	95	305779	20.0	22.3	
153 1,2-Dibromo-3-Chloropropane	75	10.881	10.881	0.000	87	58269	20.0	16.6	
154 1,3,5-Trichlorobenzene	180	11.029	11.032	-0.003	97	222384	20.0	22.8	
156 1,2,4-Trichlorobenzene	180	11.436	11.436	0.000	94	216921	20.0	22.4	
157 Hexachlorobutadiene	225	11.549	11.549	0.000	97	75329	20.0	22.4	
158 Naphthalene	128	11.600	11.600	0.000	97	896916	20.0	21.0	
159 1,2,3-Trichlorobenzene	180	11.757	11.757	0.000	96	235235	20.0	23.3	
160 2-Methylnaphthalene	142	12.322	12.322	0.000	92	483628	20.0	20.8	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LCS_2CEVE_00089	Amount Added: 50.00	Units: uL	
MSV_LCS_ACROL_00086	Amount Added: 50.00	Units: uL	
MSV_LCS_Gases_00116	Amount Added: 50.00	Units: uL	
MSV_LCS_VOC#1_00084	Amount Added: 50.00	Units: uL	
MSV_Cent_ISSS_00011	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 30-Nov-2022 20:56:14 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20221130-72248.b\WN30X34.D

Injection Date: 30-Nov-2022 20:34:30 Instrument ID: 9137 Operator ID: mec29284

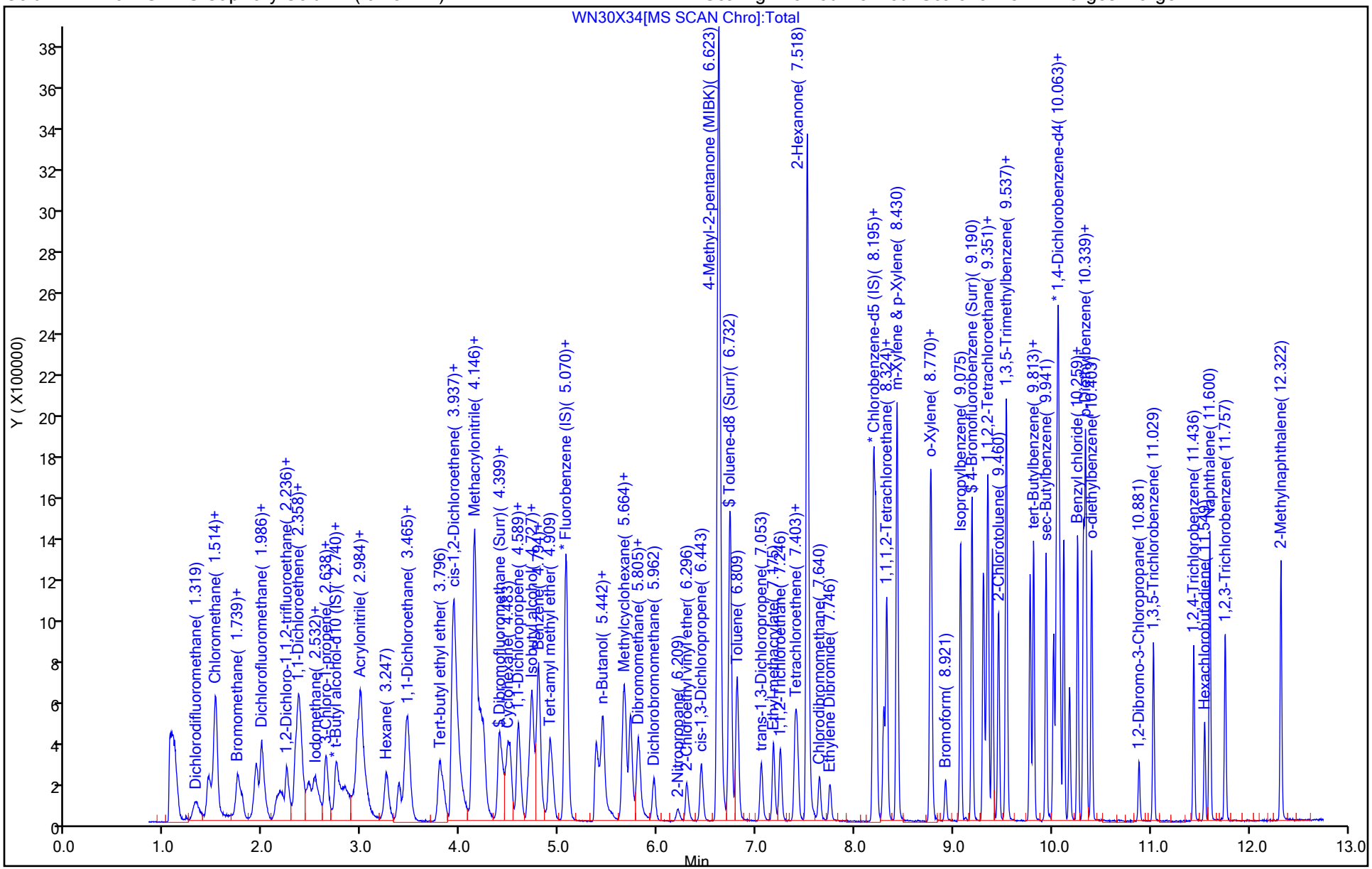
Lims ID: LCSD Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 4

Method: MSVoa_9137 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\9137\20221130-72248.b\WN30X34.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 30-Nov-2022 20:34:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0072248-005
Misc. Info.: LCSD
Operator ID: mec29284 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20221130-72248.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 30-Nov-2022 20:56:05 Calib Date: 27-Oct-2022 17:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1622

First Level Reviewer: K4WN Date: 30-Nov-2022 20:55:46

Compound	Amount Added	Amount Recovered	% Rec.
$ 50 Dibromofluoromethane (Surr)	50.0	50.3	100.68
$ 56 1,2-Dichloroethane-d4 (Surr)	50.0	51.7	103.47
$ 79 Toluene-d8 (Surr)	50.0	51.8	103.59
$ 106 4-Bromofluorobenzene (Surr)	50.0	47.1	94.24

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

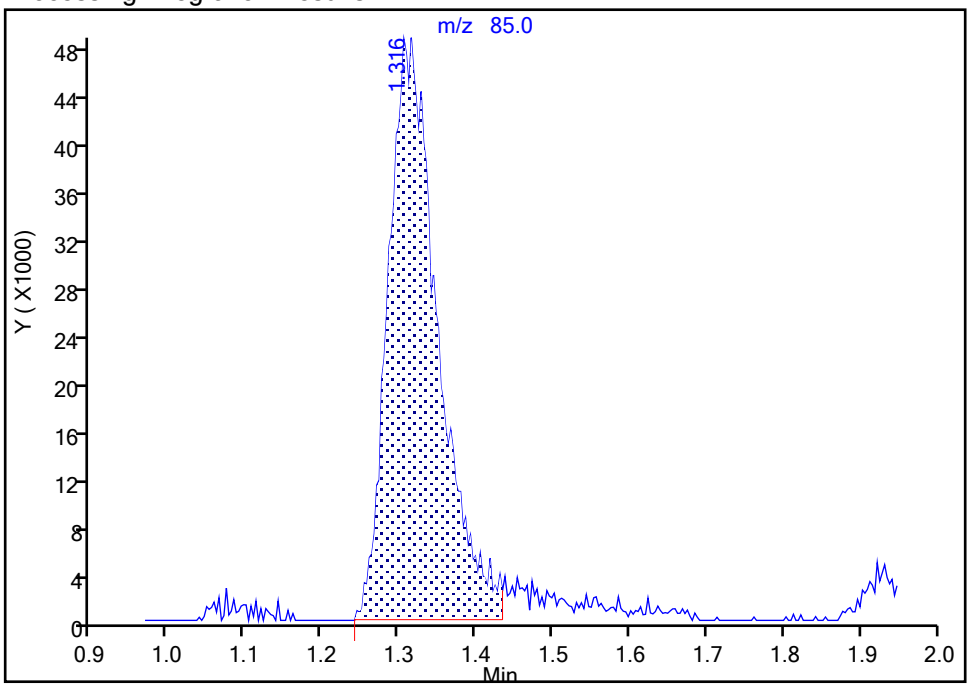
Data File: \\chromfs\Lancaster\ChromData\9137\20221130-72248.b\WN30X34.D
Injection Date: 30-Nov-2022 20:34:30 Instrument ID: 9137
Lims ID: LCSD
Client ID:
Operator ID: mec29284 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

5 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

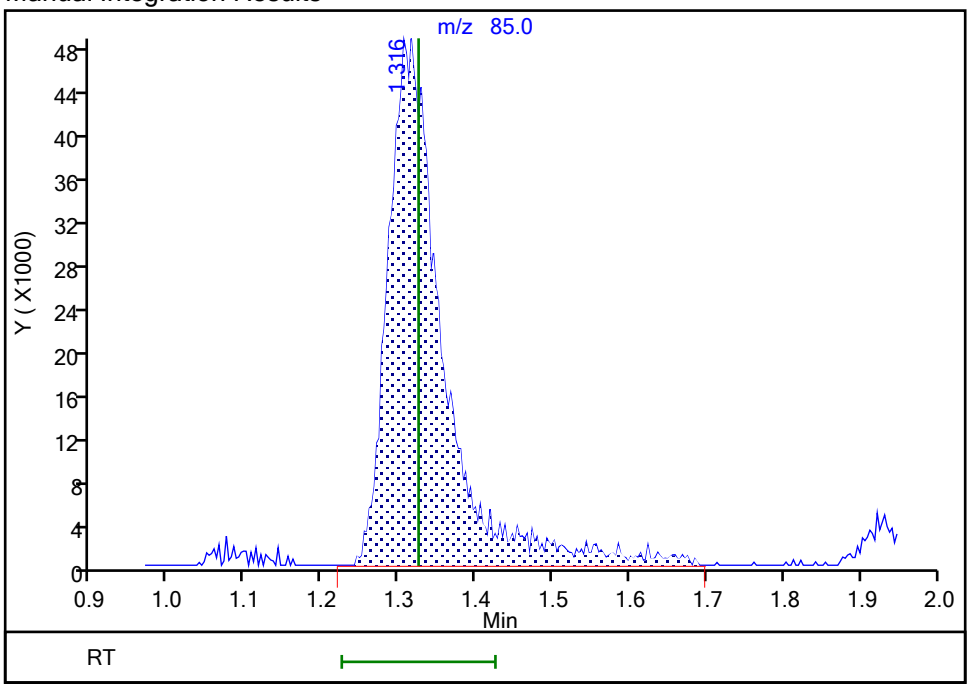
Processing Integration Results

RT: 1.32
Area: 216305
Amount: 12.778192
Amount Units: ug/l



Manual Integration Results

RT: 1.32
Area: 236632
Amount: 13.979007
Amount Units: ug/l



Reviewer: K4WN, 30-Nov-2022 20:55:05
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-106360-1

SDG No.:

Client Sample ID: FBW001-MS_112022 MS Lab Sample ID: 410-106360-3 MS

Matrix: Water Lab File ID: WN30X42.D

Analysis Method: 8260C Date Collected: 11/17/2022 10:12

Sample wt/vol: 5(mL) Date Analyzed: 11/30/2022 23:11

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.: 322343 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	20.0		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	21.1		1.0	0.30
79-00-5	1,1,2-Trichloroethane	20.2		1.0	0.30
75-34-3	1,1-Dichloroethane	21.4		1.0	0.30
75-35-4	1,1-Dichloroethene	22.7		1.0	0.30
120-82-1	1,2,4-Trichlorobenzene	23.9		5.0	0.30
95-63-6	1,2,4-Trimethylbenzene	23.8		5.0	1.0
96-12-8	1,2-Dibromo-3-Chloropropane	15.7		5.0	0.30
106-93-4	1,2-Dibromoethane	21.2		1.0	0.20
95-50-1	1,2-Dichlorobenzene	23.8		5.0	0.20
107-06-2	1,2-Dichloroethane	19.5		1.0	0.30
78-87-5	1,2-Dichloropropane	20.1		1.0	0.30
108-67-8	1,3,5-Trimethylbenzene	24.0		5.0	0.30
541-73-1	1,3-Dichlorobenzene	22.9		5.0	0.68
106-46-7	1,4-Dichlorobenzene	23.1		5.0	0.30
78-93-3	2-Butanone	205		10	0.50
591-78-6	2-Hexanone	237		10	0.85
108-10-1	4-Methyl-2-pentanone	221		10	0.50
67-64-1	Acetone	304		20	0.70
71-43-2	Benzene	21.3		1.0	0.30
75-27-4	Bromodichloromethane	18.8		1.0	0.20
75-25-2	Bromoform	18.8		4.0	1.0
74-83-9	Bromomethane	19.8		1.0	0.30
75-15-0	Carbon disulfide	23.4		5.0	0.30
56-23-5	Carbon tetrachloride	20.3		1.0	0.30
108-90-7	Chlorobenzene	22.3		1.0	0.30
75-00-3	Chloroethane	20.3		1.0	0.20
67-66-3	Chloroform	20.6		1.0	0.30
74-87-3	Chloromethane	19.8		2.0	0.55
156-59-2	cis-1,2-Dichloroethene	22.0		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	17.4		1.0	0.20
110-82-7	Cyclohexane	24.3		5.0	1.0
124-48-1	Dibromochloromethane	19.8		1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-106360-1

SDG No.:

Client Sample ID: FBW001-MS_112022 MS Lab Sample ID: 410-106360-3 MS

Matrix: Water Lab File ID: WN30X42.D

Analysis Method: 8260C Date Collected: 11/17/2022 10:12

Sample wt/vol: 5(mL) Date Analyzed: 11/30/2022 23:11

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.: 322343 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	15.5		1.0	0.20
100-41-4	Ethylbenzene	23.0		1.0	0.40
76-13-1	Freon 113	25.1		10	0.30
98-82-8	Isopropylbenzene	24.6		5.0	0.20
79-20-9	Methyl acetate	17.6		5.0	0.30
1634-04-4	Methyl tertiary butyl ether	20.1		1.0	0.20
108-87-2	Methylcyclohexane	25.3		5.0	0.50
75-09-2	Methylene Chloride	21.0		1.0	0.30
100-42-5	Styrene	22.4		5.0	0.30
127-18-4	Tetrachloroethene	24.5		1.0	0.30
108-88-3	Toluene	22.7		1.0	0.20
156-60-5	trans-1,2-Dichloroethene	22.2		2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	17.9		1.0	0.20
79-01-6	Trichloroethene	21.1		1.0	0.30
75-69-4	Trichlorofluoromethane	19.1		1.0	0.20
75-01-4	Vinyl chloride	19.6		1.0	0.20
1330-20-7	Xylenes, Total	71.0		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)	93		80-120
1868-53-7	Dibromofluoromethane (Surr)	101		80-120
2037-26-5	Toluene-d8 (Surr)	104		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20221130-72248.b\WN30X42.D
Lims ID: 410-106360-E-3 MS
Client ID: FBW001-MS_112022
Sample Type: MS
Inject. Date: 30-Nov-2022 23:11:30 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0072248-013
Operator ID: mec29284 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20221130-72248.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 01-Dec-2022 14:43:17 Calib Date: 27-Oct-2022 17:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1606

First Level Reviewer: ULCP Date: 01-Dec-2022 14:11:16

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 Dichlorodifluoromethane	85	1.322	1.325	-0.003	99	269212	20.0	15.5	
6 Chloromethane	50	1.453	1.457	-0.004	99	359430	20.0	19.8	
8 Butadiene	39	1.524	1.527	-0.003	89	424040	20.0	24.6	
7 Vinyl chloride	62	1.530	1.530	0.000	89	337336	20.0	19.6	
10 Bromomethane	94	1.749	1.755	-0.006	89	195815	20.0	19.8	
11 Chloroethane	64	1.790	1.787	0.003	100	174557	20.0	20.3	
12 Dichlorofluoromethane	67	1.941	1.941	0.000	98	410092	20.0	20.7	
13 Pentane	43	1.996	1.999	-0.003	98	355536	20.0	24.5	
14 Trichlorofluoromethane	101	1.999	2.002	-0.003	97	326462	20.0	19.1	
17 1,2-Dichloro-1,1,2-trifluoroetha	67	2.185	2.188	-0.003	94	240090	20.0	20.6	
19 1,1-Dichloroethene	96	2.342	2.342	0.000	98	176666	20.0	22.7	
20 Acetone	58	2.371	2.368	0.003	99	378050	250.0	304.0	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.378	2.381	-0.003	58	208574	20.0	25.1	
23 Isopropyl alcohol	45	2.483	2.477	0.006	42	177734	150.0	131.8	
22 Iodomethane	142	2.471	2.483	-0.012	98	282796	20.0	23.9	
24 Carbon disulfide	76	2.541	2.541	0.000	99	550963	20.0	23.4	
25 3-Chloro-1-propene	41	2.644	2.647	-0.003	94	282587	20.0	20.4	
27 Methyl acetate	43	2.666	2.660	0.006	98	199494	20.0	17.6	
28 Methylene Chloride	84	2.750	2.753	-0.003	94	182922	20.0	21.0	
* 29 t-Butyl alcohol-d10 (IS)	65	2.772	2.840	-0.068	85	483732	250.0	250.0	
30 2-Methyl-2-propanol	59	2.878	2.904	-0.026	97	462195	200.0	208.1	
31 Acrylonitrile	53	2.965	2.968	-0.003	99	561686	100.0	93.3	
33 trans-1,2-Dichloroethene	96	2.997	3.003	-0.006	98	172251	20.0	22.2	
32 Methyl tert-butyl ether	73	3.003	3.013	-0.010	88	540886	20.0	20.1	
34 Hexane	57	3.263	3.260	0.003	94	267987	20.0	23.6	
35 1,1-Dichloroethane	63	3.382	3.388	-0.006	96	307289	20.0	21.4	
37 Isopropyl ether	45	3.453	3.456	-0.003	95	595962	20.0	20.7	
38 2-Chloro-1,3-butadiene	53	3.475	3.472	0.003	91	291303	20.0	22.0	
39 Tert-butyl ethyl ether	59	3.799	3.802	-0.003	98	558758	20.0	20.5	
40 cis-1,2-Dichloroethene	96	3.937	3.937	0.000	87	185926	20.0	22.0	
41 2-Butanone (MEK)	43	3.950	3.947	0.003	100	1765571	250.0	205.1	
42 2,2-Dichloropropane	77	3.947	3.966	-0.019	52	274156	20.0	19.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
44 Propionitrile	54	4.008	4.004	0.004	98	326828	150.0	172.9	
45 Methacrylonitrile	67	4.149	4.146	0.003	92	764944	150.0	139.6	
46 Chlorobromomethane	128	4.162	4.158	0.004	71	89635	20.0	22.8	
47 Tetrahydrofuran	71	4.210	4.216	-0.006	82	191754	100.0	130.8	
48 Chloroform	83	4.242	4.245	-0.003	94	275584	20.0	20.6	
$ 50 Dibromofluoromethane (Surr)	113	4.399	4.406	-0.007	93	319862	50.0	50.6	
51 1,1,1-Trichloroethane	97	4.431	4.434	-0.003	98	265211	20.0	20.0	
52 Cyclohexane	56	4.499	4.502	-0.003	92	422481	20.0	24.3	
53 1,1-Dichloropropene	75	4.592	4.598	-0.006	96	248322	20.0	21.7	
54 Carbon tetrachloride	117	4.592	4.598	-0.006	70	209314	20.0	20.3	
55 Isobutyl alcohol	41	4.704	4.710	-0.006	93	324888	500.0	505.0	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	4.733	4.730	0.003	86	87321	50.0	51.6	
57 Benzene	78	4.797	4.797	0.000	96	710352	20.0	21.3	
58 1,2-Dichloroethane	62	4.810	4.810	0.000	95	200688	20.0	19.5	
60 Tert-amyl methyl ether	73	4.913	4.916	-0.003	100	522310	20.0	19.9	
* 61 Fluorobenzene (IS)	96	5.076	5.076	0.000	99	1364258	50.0	50.0	
62 n-Heptane	43	5.083	5.079	0.004	86	231686	20.0	22.2	
63 n-Butanol	56	5.384	5.384	0.000	91	513566	1000.0	923.9	
64 Trichloroethene	95	5.452	5.452	0.000	99	171012	20.0	21.1	
65 Methylcyclohexane	83	5.654	5.657	-0.003	93	349251	20.0	25.3	
66 1,2-Dichloropropane	63	5.673	5.676	-0.003	97	177404	20.0	20.1	
67 2-ethoxy-2-methyl butane	87	5.731	5.731	0.000	92	234651	20.0	19.6	
68 Dibromomethane	93	5.798	5.795	0.003	94	98904	20.0	19.1	
69 Methyl methacrylate	69	5.818	5.814	0.004	96	136667	20.0	16.0	
70 1,4-Dioxane	88	5.830	5.821	0.009	64	63254	500.0	483.9	
72 Dichlorobromomethane	83	5.965	5.965	0.000	99	182707	20.0	18.8	
74 2-Nitropropane	41	6.212	6.209	0.003	99	40451	20.0	15.0	
77 cis-1,3-Dichloropropene	75	6.450	6.446	0.004	96	221226	20.0	17.4	
78 4-Methyl-2-pentanone (MIBK)	43	6.623	6.623	0.000	97	3657821	250.0	220.7	
$ 79 Toluene-d8 (Surr)	98	6.735	6.738	-0.003	93	1309286	50.0	52.1	
80 Toluene	92	6.809	6.806	0.003	98	414575	20.0	22.7	
81 trans-1,3-Dichloropropene	75	7.056	7.053	0.003	93	190226	20.0	17.9	
83 Ethyl methacrylate	69	7.175	7.178	-0.003	90	234453	20.0	19.2	
84 1,1,2-Trichloroethane	97	7.249	7.249	0.000	90	136988	20.0	20.2	
86 Tetrachloroethene	166	7.400	7.403	-0.003	97	170583	20.0	24.5	
87 1,3-Dichloropropane	76	7.419	7.422	-0.003	92	232571	20.0	20.5	
90 2-Hexanone	43	7.518	7.521	-0.003	96	2441281	250.0	236.5	
91 Chlorodibromomethane	129	7.640	7.647	-0.007	91	126939	20.0	19.8	
93 Ethylene Dibromide	107	7.749	7.749	0.000	99	142826	20.0	21.2	
* 94 Chlorobenzene-d5 (IS)	117	8.192	8.192	0.000	87	948699	50.0	50.0	
95 1-Chlorohexane	91	8.211	8.211	0.000	95	218243	20.0	22.2	
96 Chlorobenzene	112	8.218	8.218	0.000	94	414296	20.0	22.3	
97 1,1,1,2-Tetrachloroethane	131	8.295	8.295	0.000	94	146472	20.0	21.0	
98 Ethylbenzene	91	8.324	8.327	-0.003	98	791759	20.0	23.0	
99 m-Xylene & p-Xylene	106	8.433	8.430	0.003	100	621093	40.0	48.1	
100 o-Xylene	106	8.770	8.766	0.004	97	311148	20.0	22.9	
101 Styrene	104	8.779	8.779	0.000	94	474544	20.0	22.4	
102 Bromoform	173	8.921	8.921	0.000	97	90173	20.0	18.8	
103 Isopropylbenzene	105	9.075	9.075	0.000	96	839824	20.0	24.6	
$ 106 4-Bromofluorobenzene (Surr)	95	9.187	9.190	-0.003	90	453687	50.0	46.4	
107 Bromobenzene	156	9.302	9.306	-0.004	95	171868	20.0	23.0	
108 1,1,2,2-Tetrachloroethane	83	9.306	9.306	0.000	91	262946	20.0	21.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
109 1,2,3-Trichloropropane	110	9.334	9.334	0.000	85	71458	20.0	20.0	
110 trans-1,4-Dichloro-2-butene	53	9.351	9.351	0.001	94	257262	100.0	67.2	
111 N-Propylbenzene	91	9.395	9.395	0.000	99	947366	20.0	25.1	
112 2-Chlorotoluene	126	9.460	9.460	0.000	97	181924	20.0	23.7	
113 1,3,5-Trimethylbenzene	105	9.533	9.533	0.000	94	664590	20.0	24.0	
114 4-Chlorotoluene	126	9.543	9.543	0.000	98	175664	20.0	23.4	
116 tert-Butylbenzene	134	9.781	9.781	0.001	93	121116	20.0	23.8	
118 1,2,4-Trimethylbenzene	105	9.813	9.813	0.000	97	675672	20.0	23.8	
119 sec-Butylbenzene	105	9.941	9.941	0.000	94	812888	20.0	25.6	
141 1,3-Dichlorobenzene	146	10.018	10.018	0.000	97	320860	20.0	22.9	
143 4-Isopropyltoluene	119	10.047	10.047	0.000	97	694611	20.0	25.7	
* 144 1,4-Dichlorobenzene-d4	152	10.063	10.063	0.000	96	513428	50.0	50.0	
145 1,4-Dichlorobenzene	146	10.079	10.079	0.000	95	338068	20.0	23.1	
146 1,2,3-Trimethylbenzene	105	10.121	10.121	0.000	99	693253	20.0	23.7	
147 Benzyl chloride	91	10.178	10.178	0.000	98	398152	20.0	16.3	
148 1,3-Diethylbenzene	119	10.262	10.262	0.000	95	397950	20.0	24.5	
149 p-Diethylbenzene	119	10.320	10.320	0.000	95	414679	20.0	25.2	
150 n-Butylbenzene	92	10.339	10.339	0.000	98	343318	20.0	25.5	
151 1,2-Dichlorobenzene	146	10.348	10.345	0.003	98	342525	20.0	23.8	
152 o-diethylbenzene	119	10.403	10.403	0.000	95	329365	20.0	24.1	
153 1,2-Dibromo-3-Chloropropane	75	10.884	10.881	0.003	87	54904	20.0	15.7	
154 1,3,5-Trichlorobenzene	180	11.029	11.032	-0.003	96	236408	20.0	24.4	
156 1,2,4-Trichlorobenzene	180	11.440	11.436	0.004	94	230372	20.0	23.9	
157 Hexachlorobutadiene	225	11.549	11.549	0.000	95	83208	20.0	24.8	
158 Naphthalene	128	11.600	11.600	0.000	97	880140	20.0	20.7	
159 1,2,3-Trichlorobenzene	180	11.757	11.757	0.000	95	239079	20.0	23.8	
160 2-Methylnaphthalene	142	12.322	12.322	0.000	92	469213	20.0	20.3	

QC Flag Legend

Processing Flags

Reagents:

MSV_LCS_VOC#1_00084	Amount Added: 21.50	Units: uL	
MSV_LCS_Gases_00116	Amount Added: 21.50	Units: uL	
MSV_Cent_ISSS_00011	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 01-Dec-2022 14:47:27 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20221130-72248.b\WN30X42.D

Injection Date: 30-Nov-2022 23:11:30 Instrument ID: 9137 Operator ID: mec29284

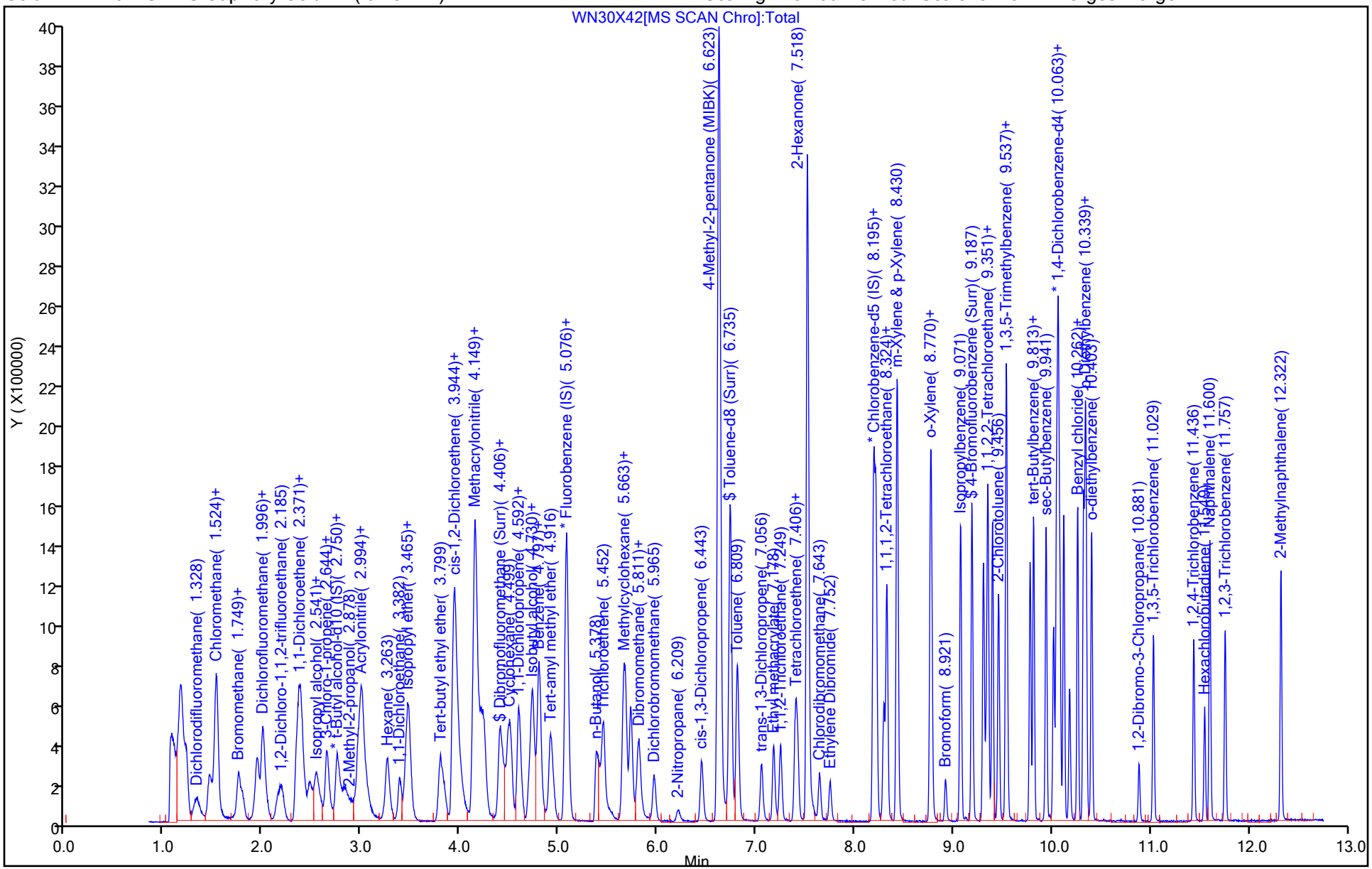
Lims ID: 410-106360-E-3 MS Worklist Smp#: 13

Client ID: FBW001-MS_112022

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 12

Method: MSVoa_9137 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\9137\20221130-72248.b\WN30X42.D				
Lims ID:	410-106360-E-3 MS				
Client ID:	FBW001-MS_112022				
Sample Type:	MS				
Inject. Date:	30-Nov-2022 23:11:30	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0072248-013				
Operator ID:	mec29284	Instrument ID:	9137		
Method:	\\chromfs\Lancaster\ChromData\9137\20221130-72248.b\MSVoa_9137.m				
Limit Group:	MSV - 8260C_D				
Last Update:	01-Dec-2022 14:43:17	Calib Date:	27-Oct-2022 17:46:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1606				

First Level Reviewer: ULCP Date: 01-Dec-2022 14:11:16

Compound	Amount Added	Amount Recovered	% Rec.
$ 50 Dibromofluoromethane (Surr)	50.0	50.6	101.27
$ 56 1,2-Dichloroethane-d4 (Surr)	50.0	51.6	103.21
$ 79 Toluene-d8 (Surr)	50.0	52.1	104.24
$ 106 4-Bromofluorobenzene (Surr)	50.0	46.4	92.74

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-106360-1

SDG No.:

Client Sample ID: FBW001-MSD_112022 MSD Lab Sample ID: 410-106360-3 MSD

Matrix: Water Lab File ID: WN30X43.D

Analysis Method: 8260C Date Collected: 11/17/2022 10:17

Sample wt/vol: 5(mL) Date Analyzed: 11/30/2022 23:31

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.: 322343 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	20.8		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	20.4		1.0	0.30
79-00-5	1,1,2-Trichloroethane	20.9		1.0	0.30
75-34-3	1,1-Dichloroethane	21.7		1.0	0.30
75-35-4	1,1-Dichloroethene	22.7		1.0	0.30
120-82-1	1,2,4-Trichlorobenzene	24.4		5.0	0.30
95-63-6	1,2,4-Trimethylbenzene	23.8		5.0	1.0
96-12-8	1,2-Dibromo-3-Chloropropane	16.1		5.0	0.30
106-93-4	1,2-Dibromoethane	21.7		1.0	0.20
95-50-1	1,2-Dichlorobenzene	23.6		5.0	0.20
107-06-2	1,2-Dichloroethane	19.6		1.0	0.30
78-87-5	1,2-Dichloropropane	20.4		1.0	0.30
108-67-8	1,3,5-Trimethylbenzene	23.9		5.0	0.30
541-73-1	1,3-Dichlorobenzene	23.5		5.0	0.68
106-46-7	1,4-Dichlorobenzene	23.1		5.0	0.30
78-93-3	2-Butanone	215		10	0.50
591-78-6	2-Hexanone	250		10	0.85
108-10-1	4-Methyl-2-pentanone	234		10	0.50
67-64-1	Acetone	303		20	0.70
71-43-2	Benzene	22.0		1.0	0.30
75-27-4	Bromodichloromethane	19.3		1.0	0.20
75-25-2	Bromoform	18.7		4.0	1.0
74-83-9	Bromomethane	20.2		1.0	0.30
75-15-0	Carbon disulfide	24.1		5.0	0.30
56-23-5	Carbon tetrachloride	21.7		1.0	0.30
108-90-7	Chlorobenzene	22.7		1.0	0.30
75-00-3	Chloroethane	21.7		1.0	0.20
67-66-3	Chloroform	20.8		1.0	0.30
74-87-3	Chloromethane	20.4		2.0	0.55
156-59-2	cis-1,2-Dichloroethene	22.6		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	18.5		1.0	0.20
110-82-7	Cyclohexane	25.3		5.0	1.0
124-48-1	Dibromochloromethane	19.9		1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-106360-1

SDG No.:

Client Sample ID: FBW001-MSD_112022 MSD Lab Sample ID: 410-106360-3 MSD

Matrix: Water Lab File ID: WN30X43.D

Analysis Method: 8260C Date Collected: 11/17/2022 10:17

Sample wt/vol: 5(mL) Date Analyzed: 11/30/2022 23:31

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.: 322343 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	16.7		1.0	0.20
100-41-4	Ethylbenzene	24.0		1.0	0.40
76-13-1	Freon 113	25.7		10	0.30
98-82-8	Isopropylbenzene	25.6		5.0	0.20
79-20-9	Methyl acetate	27.2		5.0	0.30
1634-04-4	Methyl tertiary butyl ether	20.8		1.0	0.20
108-87-2	Methylcyclohexane	25.3		5.0	0.50
75-09-2	Methylene Chloride	20.9		1.0	0.30
100-42-5	Styrene	22.6		5.0	0.30
127-18-4	Tetrachloroethene	25.4		1.0	0.30
108-88-3	Toluene	23.2		1.0	0.20
156-60-5	trans-1,2-Dichloroethene	22.1		2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	19.0		1.0	0.20
79-01-6	Trichloroethene	20.6		1.0	0.30
75-69-4	Trichlorofluoromethane	19.6		1.0	0.20
75-01-4	Vinyl chloride	20.3		1.0	0.20
1330-20-7	Xylenes, Total	71.8		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		80-120
460-00-4	4-Bromofluorobenzene (Surr)	93		80-120
1868-53-7	Dibromofluoromethane (Surr)	101		80-120
2037-26-5	Toluene-d8 (Surr)	104		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20221130-72248.b\WN30X43.D
Lims ID: 410-106360-E-3 MSD
Client ID: FBW001-MSD_112022
Sample Type: MSD
Inject. Date: 30-Nov-2022 23:31:30 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0072248-014
Operator ID: mec29284 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20221130-72248.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 01-Dec-2022 14:43:17 Calib Date: 27-Oct-2022 17:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1606

First Level Reviewer: ULCP Date: 01-Dec-2022 14:13:15

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 Dichlorodifluoromethane	85	1.319	1.325	-0.006	99	274943	20.0	16.7	
6 Chloromethane	50	1.447	1.457	-0.010	99	349673	20.0	20.4	
8 Butadiene	39	1.521	1.527	-0.006	91	398839	20.0	24.4	
7 Vinyl chloride	62	1.527	1.530	-0.003	95	330932	20.0	20.3	M
10 Bromomethane	94	1.745	1.755	-0.010	89	189443	20.0	20.2	
11 Chloroethane	64	1.787	1.787	0.000	99	176134	20.0	21.7	
12 Dichlorofluoromethane	67	1.935	1.941	-0.006	98	401479	20.0	21.4	
13 Pentane	43	1.993	1.999	-0.006	95	343168	20.0	24.9	
14 Trichlorofluoromethane	101	2.002	2.002	0.000	88	318649	20.0	19.6	
17 1,2-Dichloro-1,1,2-trifluoroetha	67	2.156	2.188	-0.032	95	227169	20.0	20.5	
19 1,1-Dichloroethene	96	2.342	2.342	0.000	97	167174	20.0	22.7	
20 Acetone	58	2.365	2.368	-0.003	100	369397	250.0	302.6	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.371	2.381	-0.010	90	201874	20.0	25.7	
23 Isopropyl alcohol	45	2.464	2.477	-0.013	41	153150	150.0	115.7	
22 Iodomethane	142	2.467	2.483	-0.016	98	267693	20.0	23.9	
24 Carbon disulfide	76	2.538	2.541	-0.003	99	536892	20.0	24.1	
25 3-Chloro-1-propene	41	2.638	2.647	-0.009	94	281355	20.0	21.4	
27 Methyl acetate	43	2.654	2.660	-0.006	98	291094	20.0	27.2	
28 Methylene Chloride	84	2.747	2.753	-0.006	95	172419	20.0	20.9	
* 29 t-Butyl alcohol-d10 (IS)	65	2.766	2.840	-0.074	87	474863	250.0	250.0	
30 2-Methyl-2-propanol	59	2.824	2.904	-0.080	96	408183	200.0	187.2	
31 Acrylonitrile	53	2.968	2.968	0.000	99	536575	100.0	94.1	
33 trans-1,2-Dichloroethene	96	3.000	3.003	-0.003	98	162478	20.0	22.1	
32 Methyl tert-butyl ether	73	2.994	3.013	-0.019	94	528154	20.0	20.8	
34 Hexane	57	3.257	3.260	-0.003	93	264005	20.0	24.5	
35 1,1-Dichloroethane	63	3.385	3.388	-0.003	96	295453	20.0	21.7	
37 Isopropyl ether	45	3.453	3.456	-0.003	96	576247	20.0	21.2	
38 2-Chloro-1,3-butadiene	53	3.469	3.472	-0.003	90	277780	20.0	22.1	
39 Tert-butyl ethyl ether	59	3.796	3.802	-0.006	98	536072	20.0	20.8	
40 cis-1,2-Dichloroethene	96	3.934	3.937	-0.003	71	181004	20.0	22.6	
41 2-Butanone (MEK)	43	3.937	3.947	-0.010	100	1756563	250.0	215.4	
42 2,2-Dichloropropane	77	3.947	3.966	-0.019	68	274799	20.0	20.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
44 Propionitrile	54	4.001	4.004	-0.003	98	331489	150.0	178.6	
45 Methacrylonitrile	67	4.149	4.146	0.003	94	766307	150.0	147.7	
46 Chlorobromomethane	128	4.165	4.158	0.007	95	81839	20.0	22.0	
47 Tetrahydrofuran	71	4.213	4.216	-0.003	84	193692	100.0	134.6	
48 Chloroform	83	4.239	4.245	-0.006	94	263954	20.0	20.8	
$ 50 Dibromofluoromethane (Surr)	113	4.402	4.406	-0.004	94	301624	50.0	50.4	
51 1,1,1-Trichloroethane	97	4.425	4.434	-0.009	86	261227	20.0	20.8	
52 Cyclohexane	56	4.499	4.502	-0.003	92	416132	20.0	25.3	
53 1,1-Dichloropropene	75	4.585	4.598	-0.013	96	240050	20.0	22.1	
54 Carbon tetrachloride	117	4.598	4.598	0.000	73	210920	20.0	21.7	
55 Isobutyl alcohol	41	4.704	4.710	-0.006	96	336779	500.0	533.3	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	4.730	4.730	0.000	89	79523	50.0	49.6	
57 Benzene	78	4.791	4.797	-0.006	96	696712	20.0	22.0	
58 1,2-Dichloroethane	62	4.800	4.810	-0.010	58	190731	20.0	19.6	
60 Tert-amyl methyl ether	73	4.909	4.916	-0.007	98	517974	20.0	20.9	
* 61 Fluorobenzene (IS)	96	5.073	5.076	-0.003	99	1291981	50.0	50.0	
62 n-Heptane	43	5.076	5.079	-0.003	60	232774	20.0	23.6	
63 n-Butanol	56	5.384	5.384	0.000	89	544910	1000.0	998.6	
64 Trichloroethene	95	5.449	5.452	-0.003	99	158292	20.0	20.6	
65 Methylcyclohexane	83	5.660	5.657	0.003	93	330797	20.0	25.3	
66 1,2-Dichloropropane	63	5.676	5.676	0.000	97	170386	20.0	20.4	
67 2-ethoxy-2-methyl butane	87	5.724	5.731	-0.007	92	237743	20.0	21.0	
68 Dibromomethane	93	5.798	5.795	0.003	96	96187	20.0	19.6	
69 Methyl methacrylate	69	5.814	5.814	0.000	94	141625	20.0	17.6	
70 1,4-Dioxane	88	5.821	5.821	0.000	47	65440	500.0	510.0	
72 Dichlorobromomethane	83	5.965	5.965	0.000	99	177537	20.0	19.3	
74 2-Nitropropane	41	6.209	6.209	0.000	99	42766	20.0	16.2	
77 cis-1,3-Dichloropropene	75	6.447	6.446	0.000	96	222757	20.0	18.5	
78 4-Methyl-2-pentanone (MIBK)	43	6.620	6.623	-0.003	97	3669874	250.0	233.8	
$ 79 Toluene-d8 (Surr)	98	6.735	6.738	-0.003	93	1265292	50.0	51.8	
80 Toluene	92	6.806	6.806	0.000	99	411433	20.0	23.2	
81 trans-1,3-Dichloropropene	75	7.050	7.053	-0.003	93	196434	20.0	19.0	
83 Ethyl methacrylate	69	7.178	7.178	0.000	91	232561	20.0	19.6	
84 1,1,2-Trichloroethane	97	7.249	7.249	0.000	89	137449	20.0	20.9	
86 Tetrachloroethene	166	7.400	7.403	-0.003	98	172502	20.0	25.4	
87 1,3-Dichloropropane	76	7.419	7.422	-0.003	96	238985	20.0	21.7	
90 2-Hexanone	43	7.521	7.521	0.000	98	2508308	250.0	249.9	
91 Chlorodibromomethane	129	7.643	7.647	-0.004	91	124417	20.0	19.9	
93 Ethylene Dibromide	107	7.746	7.749	-0.003	100	142298	20.0	21.7	
* 94 Chlorobenzene-d5 (IS)	117	8.192	8.192	0.000	87	922653	50.0	50.0	
95 1-Chlorohexane	91	8.211	8.211	0.000	97	222731	20.0	23.3	
96 Chlorobenzene	112	8.215	8.218	-0.003	93	409915	20.0	22.7	
97 1,1,1,2-Tetrachloroethane	131	8.295	8.295	0.000	95	143946	20.0	21.2	
98 Ethylbenzene	91	8.324	8.327	-0.003	98	802350	20.0	24.0	
99 m-Xylene & p-Xylene	106	8.430	8.430	0.000	99	608103	40.0	48.4	
100 o-Xylene	106	8.767	8.766	0.001	97	310048	20.0	23.4	
101 Styrene	104	8.776	8.779	-0.003	94	465430	20.0	22.6	
102 Bromoform	173	8.921	8.921	0.000	95	87207	20.0	18.7	
103 Isopropylbenzene	105	9.075	9.075	0.000	96	850631	20.0	25.6	
$ 106 4-Bromofluorobenzene (Surr)	95	9.187	9.190	-0.003	90	442670	50.0	46.5	
107 Bromobenzene	156	9.306	9.306	0.000	92	176668	20.0	23.8	
108 1,1,2,2-Tetrachloroethane	83	9.306	9.306	0.000	92	252713	20.0	20.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
109 1,2,3-Trichloropropane	110	9.335	9.334	0.001	82	71732	20.0	20.2	
110 trans-1,4-Dichloro-2-butene	53	9.351	9.351	0.001	94	272715	100.0	71.7	
111 N-Propylbenzene	91	9.395	9.395	0.000	99	936877	20.0	25.0	
112 2-Chlorotoluene	126	9.456	9.460	-0.004	97	177895	20.0	23.3	
113 1,3,5-Trimethylbenzene	105	9.533	9.533	0.000	94	655257	20.0	23.9	
114 4-Chlorotoluene	126	9.543	9.543	0.000	99	177964	20.0	23.8	
116 tert-Butylbenzene	134	9.781	9.781	0.001	93	125113	20.0	24.8	
118 1,2,4-Trimethylbenzene	105	9.813	9.813	0.000	97	669123	20.0	23.8	
119 sec-Butylbenzene	105	9.941	9.941	0.000	94	822415	20.0	26.1	
141 1,3-Dichlorobenzene	146	10.015	10.018	-0.003	98	327033	20.0	23.5	
143 4-Isopropyltoluene	119	10.047	10.047	0.000	97	687430	20.0	25.6	
* 144 1,4-Dichlorobenzene-d4	152	10.063	10.063	0.000	95	510020	50.0	50.0	
145 1,4-Dichlorobenzene	146	10.082	10.079	0.003	96	335019	20.0	23.1	
146 1,2,3-Trimethylbenzene	105	10.121	10.121	0.000	99	682590	20.0	23.5	
147 Benzyl chloride	91	10.178	10.178	0.000	98	400748	20.0	16.5	
148 1,3-Diethylbenzene	119	10.262	10.262	0.000	96	398774	20.0	24.7	
149 p-Diethylbenzene	119	10.320	10.320	0.000	94	419481	20.0	25.7	
150 n-Butylbenzene	92	10.339	10.339	0.000	98	334314	20.0	25.0	
151 1,2-Dichlorobenzene	146	10.345	10.345	0.000	98	336680	20.0	23.6	
152 o-diethylbenzene	119	10.403	10.403	0.000	95	324190	20.0	23.9	
153 1,2-Dibromo-3-Chloropropane	75	10.881	10.881	0.000	83	56083	20.0	16.1	
154 1,3,5-Trichlorobenzene	180	11.029	11.032	-0.003	97	233680	20.0	24.3	
156 1,2,4-Trichlorobenzene	180	11.436	11.436	0.000	94	233431	20.0	24.4	
157 Hexachlorobutadiene	225	11.549	11.549	0.000	95	85791	20.0	25.8	
158 Naphthalene	128	11.600	11.600	0.000	97	895630	20.0	21.2	
159 1,2,3-Trichlorobenzene	180	11.757	11.757	0.000	96	247176	20.0	24.7	
160 2-Methylnaphthalene	142	12.322	12.322	0.000	93	497241	20.0	21.6	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LCS_VOC#1_00084	Amount Added: 21.50	Units: uL	
MSV_LCS_Gases_00116	Amount Added: 21.50	Units: uL	
MSV_Cent_ISSS_00011	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 01-Dec-2022 14:47:34 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20221130-72248.b\WN30X43.D

Injection Date: 30-Nov-2022 23:31:30 Instrument ID: 9137 Operator ID: mec29284

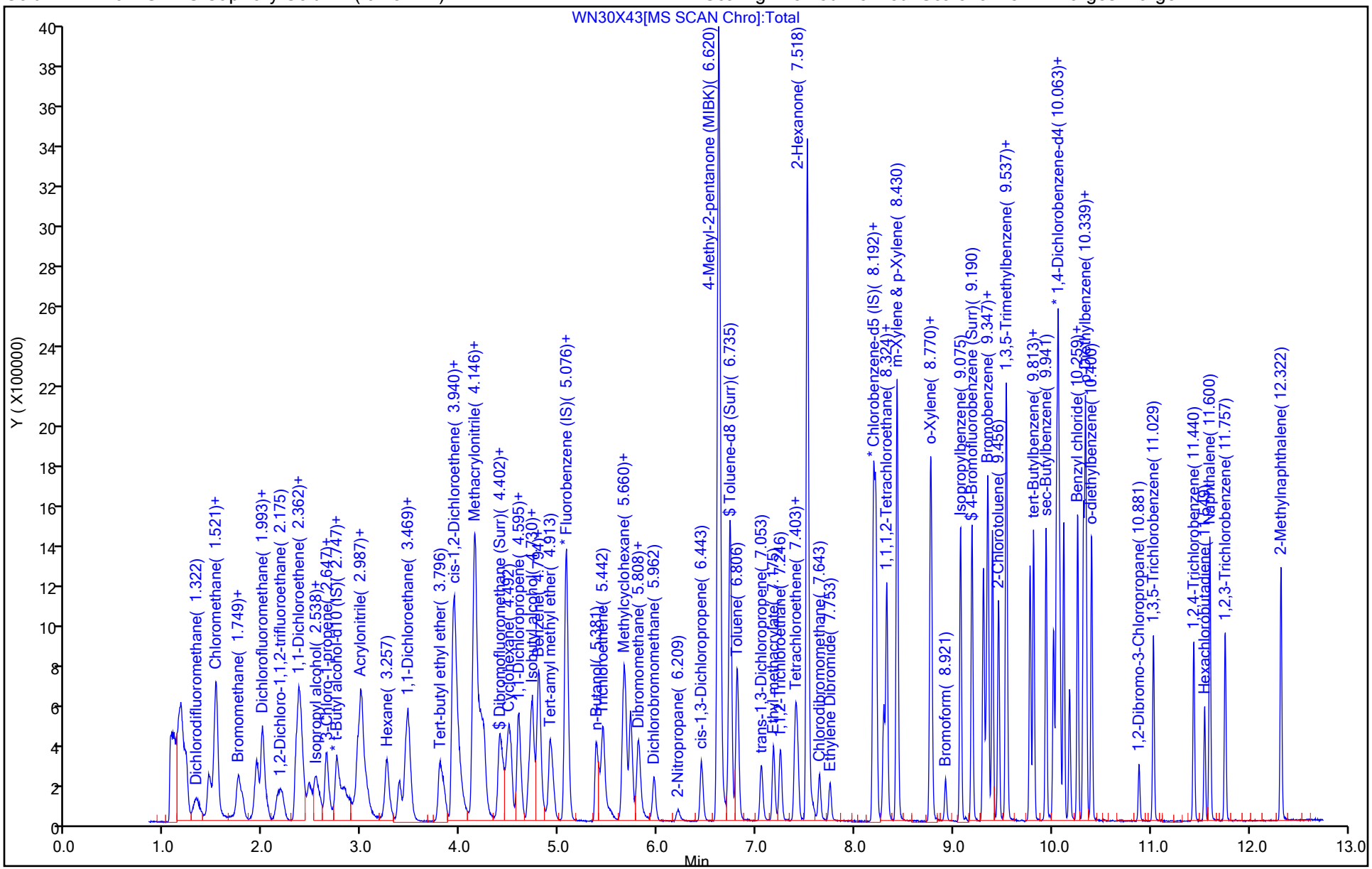
Lims ID: 410-106360-E-3 MSD Worklist Smp#: 14

Client ID: FBW001-MSD_112022

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 13

Method: MSVoa_9137 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\9137\20221130-72248.b\WN30X43.D				
Lims ID:	410-106360-E-3 MSD				
Client ID:	FBW001-MSD_112022				
Sample Type:	MSD				
Inject. Date:	30-Nov-2022 23:31:30	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0072248-014				
Operator ID:	mec29284	Instrument ID:	9137		
Method:	\\chromfs\Lancaster\ChromData\9137\20221130-72248.b\MSVoa_9137.m				
Limit Group:	MSV - 8260C_D				
Last Update:	01-Dec-2022 14:43:17	Calib Date:	27-Oct-2022 17:46:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\9137\20221027-69757.b\WC27X16.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1606				

First Level Reviewer: ULCP Date: 01-Dec-2022 14:13:15

Compound	Amount Added	Amount Recovered	% Rec.
$ 50 Dibromofluoromethane (Surr)	50.0	50.4	100.84
$ 56 1,2-Dichloroethane-d4 (Surr)	50.0	49.6	99.25
$ 79 Toluene-d8 (Surr)	50.0	51.8	103.58
$ 106 4-Bromofluorobenzene (Surr)	50.0	46.5	93.04

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

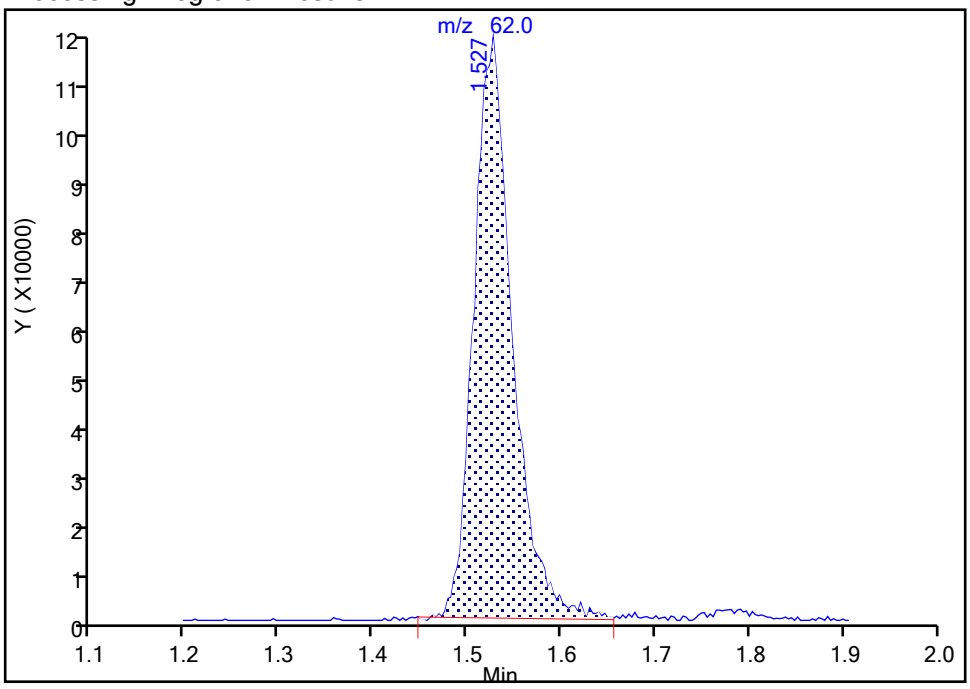
Data File:	\\chromfs\Lancaster\ChromData\9137\20221130-72248.b\WN30X43.D				
Injection Date:	30-Nov-2022 23:31:30	Instrument ID:	9137		
Lims ID:	410-106360-E-3 MSD				
Client ID:	FBW001-MSD_112022				
Operator ID:	mec29284	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

7 Vinyl chloride, CAS: 75-01-4

Signal: 1

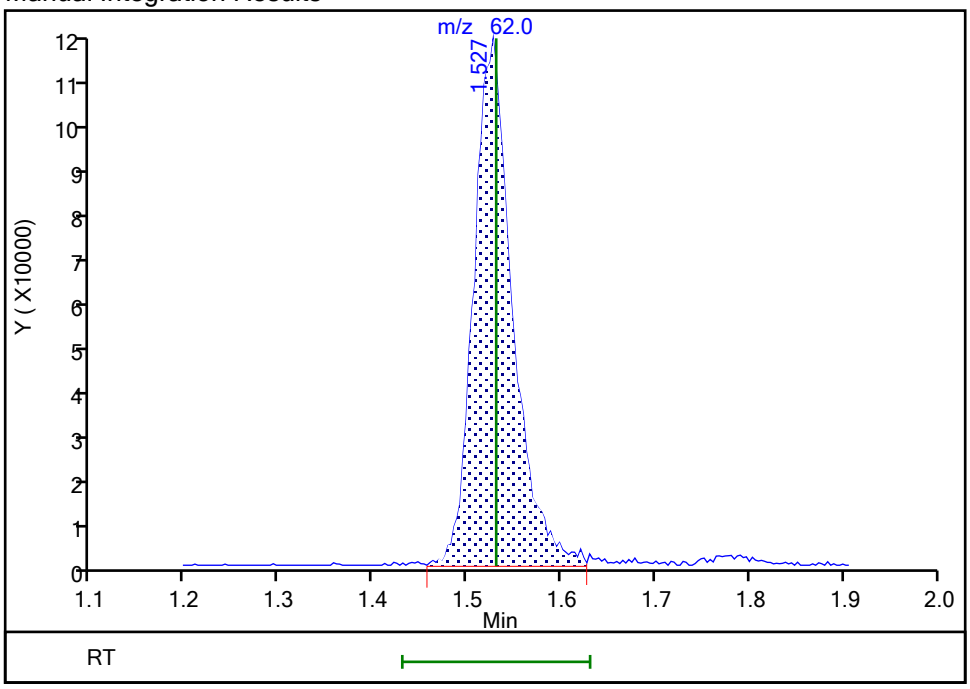
Processing Integration Results

RT: 1.53
Area: 327716
Amount: 20.104280
Amount Units: ug/l



Manual Integration Results

RT: 1.53
Area: 330932
Amount: 20.301570
Amount Units: ug/l



Reviewer: ULCP, 01-Dec-2022 14:12:24
Audit Action: Split an Integrated Peak Audit Reason: Baseline

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-106360-1

SDG No.:

Instrument ID: 9137 Start Date: 10/27/2022 12:27

Analysis Batch Number: 311123 End Date: 10/27/2022 18:25

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-311123/1		10/27/2022 12:27	1	WO27T01.D	R-624SilMS 30m 0.25(mm)
IC 410-311123/3		10/27/2022 13:09	1	WC27X02.D	R-624SilMS 30m 0.25(mm)
IC 410-311123/4		10/27/2022 13:29	1	WC27X03.D	R-624SilMS 30m 0.25(mm)
IC 410-311123/5		10/27/2022 13:49	1	WC27X04.D	R-624SilMS 30m 0.25(mm)
IC 410-311123/6		10/27/2022 14:08	1	WC27X05.D	R-624SilMS 30m 0.25(mm)
IC 410-311123/7		10/27/2022 14:28	1	WC27X06.D	R-624SilMS 30m 0.25(mm)
IC 410-311123/8		10/27/2022 14:47	1	WC27X07.D	R-624SilMS 30m 0.25(mm)
ICV 410-311123/9		10/27/2022 15:07	1	WC27X08.D	R-624SilMS 30m 0.25(mm)
IC 410-311123/11		10/27/2022 15:47	1	WC27X10.D	R-624SilMS 30m 0.25(mm)
IC 410-311123/12		10/27/2022 16:07	1	WC27X11.D	R-624SilMS 30m 0.25(mm)
ICIS 410-311123/13		10/27/2022 16:27	1	WC27X12.D	R-624SilMS 30m 0.25(mm)
IC 410-311123/14		10/27/2022 16:46	1	WC27X13.D	R-624SilMS 30m 0.25(mm)
IC 410-311123/15		10/27/2022 17:06	1	WC27X14.D	R-624SilMS 30m 0.25(mm)
IC 410-311123/16		10/27/2022 17:26	1	WC27X15.D	R-624SilMS 30m 0.25(mm)
IC 410-311123/17		10/27/2022 17:46	1	WC27X16.D	R-624SilMS 30m 0.25(mm)
ICV 410-311123/19		10/27/2022 18:25	1	WC27X18.D	R-624SilMS 30m 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-106360-1

SDG No.:

Instrument ID: 9137 Start Date: 10/27/2022 12:27

Analysis Batch Number: 311125 End Date: 10/27/2022 18:25

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-311125/1		10/27/2022 12:27	1	WO27T01.D	R-624SilMS 30m 0.25(mm)
IC 410-311125/3		10/27/2022 13:09	1		R-624SilMS 30m 0.25(mm)
IC 410-311125/4		10/27/2022 13:29	1		R-624SilMS 30m 0.25(mm)
IC 410-311125/5		10/27/2022 13:49	1		R-624SilMS 30m 0.25(mm)
IC 410-311125/6		10/27/2022 14:08	1		R-624SilMS 30m 0.25(mm)
IC 410-311125/7		10/27/2022 14:28	1		R-624SilMS 30m 0.25(mm)
IC 410-311125/8		10/27/2022 14:47	1		R-624SilMS 30m 0.25(mm)
ICV 410-311125/9		10/27/2022 15:07	1		R-624SilMS 30m 0.25(mm)
IC 410-311125/11		10/27/2022 15:47	1		R-624SilMS 30m 0.25(mm)
IC 410-311125/12		10/27/2022 16:07	1		R-624SilMS 30m 0.25(mm)
ICIS 410-311125/13		10/27/2022 16:27	1		R-624SilMS 30m 0.25(mm)
IC 410-311125/14		10/27/2022 16:46	1		R-624SilMS 30m 0.25(mm)
IC 410-311125/15		10/27/2022 17:06	1		R-624SilMS 30m 0.25(mm)
IC 410-311125/16		10/27/2022 17:26	1		R-624SilMS 30m 0.25(mm)
IC 410-311125/17		10/27/2022 17:46	1		R-624SilMS 30m 0.25(mm)
ICV 410-311125/19		10/27/2022 18:25	1		R-624SilMS 30m 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-106360-1

SDG No.:

Instrument ID: 9137 Start Date: 11/30/2022 19:20

Analysis Batch Number: 322343 End Date: 12/01/2022 04:26

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-322343/1		11/30/2022 19:20	1	WN30T31.D	R-624SilMS 30m 0.25(mm)
CCVIS 410-322343/3		11/30/2022 19:54	1	WN30X32.D	R-624SilMS 30m 0.25(mm)
LCS 410-322343/4		11/30/2022 20:14	1	WN30X33.D	R-624SilMS 30m 0.25(mm)
LCSD 410-322343/5		11/30/2022 20:34	1	WN30X34.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		11/30/2022 20:53	1		R-624SilMS 30m 0.25(mm)
MB 410-322343/7		11/30/2022 21:13	1	WN30X36.D	R-624SilMS 30m 0.25(mm)
410-106360-4	FBW001_FB_112022	11/30/2022 21:33	1	WN30X37.D	R-624SilMS 30m 0.25(mm)
410-106360-5	Trip Blank	11/30/2022 21:53	1	WN30X38.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		11/30/2022 22:12	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		11/30/2022 22:32	1		R-624SilMS 30m 0.25(mm)
410-106360-3	FBW001_112022	11/30/2022 22:51	1	WN30X41.D	R-624SilMS 30m 0.25(mm)
410-106360-3 MS	FBW001-MS_112022 MS	11/30/2022 23:11	1	WN30X42.D	R-624SilMS 30m 0.25(mm)
410-106360-3 MSD	FBW001-MSD_112022 MSD	11/30/2022 23:31	1	WN30X43.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		11/30/2022 23:51	1		R-624SilMS 30m 0.25(mm)
410-106360-1	FBS010_112022	12/01/2022 00:10	1	WN30X45.D	R-624SilMS 30m 0.25(mm)
410-106360-2	DUP-01_112022	12/01/2022 00:30	1	WN30X46.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		12/01/2022 00:50	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		12/01/2022 01:09	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		12/01/2022 01:29	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		12/01/2022 01:49	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		12/01/2022 02:09	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		12/01/2022 02:28	100		R-624SilMS 30m 0.25(mm)
ZZZZZ		12/01/2022 02:48	10		R-624SilMS 30m 0.25(mm)
ZZZZZ		12/01/2022 03:08	5		R-624SilMS 30m 0.25(mm)
ZZZZZ		12/01/2022 03:27	10		R-624SilMS 30m 0.25(mm)
ZZZZZ		12/01/2022 03:47	5		R-624SilMS 30m 0.25(mm)
ZZZZZ		12/01/2022 04:07	5		R-624SilMS 30m 0.25(mm)
ZZZZZ		12/01/2022 04:26	10		R-624SilMS 30m 0.25(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-106360-1

SDG No.:

Batch Number: 311123 Batch Start Date: 10/27/22 12:27 Batch Analyst: Campbell, Miranda E

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Lot#Vial	MSV_4ppbEtoh 00452	MSV_CCV_2CEVE 00090	MSV_CCV_CYC 00004
BFB 410-311123/1		8260C		1 uL	1 uL				
IC 410-311123/3		8260C		5 mL	5 mL	2660			
IC 410-311123/4		8260C		5 mL	5 mL	2660			
IC 410-311123/5		8260C		5 mL	5 mL	2660			
IC 410-311123/6		8260C		5 mL	5 mL	2660			
IC 410-311123/7		8260C		5 mL	5 mL	2660			
IC 410-311123/8		8260C		5 mL	5 mL	2660			
ICV 410-311123/9		8260C		5 mL	5 mL	2660			
IC 410-311123/11		8260C		5 mL	5 mL	2660		15 uL	30 uL
IC 410-311123/12		8260C		5 mL	5 mL	2660		5 uL	10 uL
ICIS 410-311123/13		8260C		5 mL	5 mL	2660		5 uL	10 uL
IC 410-311123/14		8260C		5 mL	5 mL	2660		4 uL	16 uL
IC 410-311123/15		8260C		5 mL	5 mL	2660		2 uL	8 uL
IC 410-311123/16		8260C		5 mL	5 mL	2660		4 uL	32 uL
IC 410-311123/17		8260C		5 mL	5 mL	2660	12.5 mL		
ICV 410-311123/19		8260C		5 mL	5 mL	2660			

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_CCV_EE 00003	MSV_CCV_ETOH 00003	MSV_CCV_GASES 00292	MSV_CCV_LKB 00002	MSV_CCV_Penta 00025	MSV_CCV_V5ACE 00016
BFB 410-311123/1		8260C							
IC 410-311123/3		8260C		15 uL			15 uL	15 uL	15 uL
IC 410-311123/4		8260C		5 uL			5 uL	5 uL	5 uL
IC 410-311123/5		8260C		5 uL			5 uL	5 uL	5 uL
IC 410-311123/6		8260C		4 uL			4 uL	4 uL	4 uL
IC 410-311123/7		8260C		2 uL			2 uL	2 uL	2 uL
IC 410-311123/8		8260C		4 uL			4 uL	4 uL	4 uL

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-106360-1

SDG No.:

Batch Number: 311123 Batch Start Date: 10/27/22 12:27 Batch Analyst: Campbell, Miranda E

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_CCV_EE 00003	MSV_CCV_ETOH 00003	MSV_CCV_GASES 00292	MSV_CCV_LKB 00002	MSV_CCV_Penta 00025	MSV_CCV_V5ACE 00016
ICV 410-311123/9		8260C							
IC 410-311123/11		8260C			30 uL	7.5 uL			
IC 410-311123/12		8260C			10 uL	2.5 uL			
ICIS 410-311123/13		8260C			10 uL	2.5 uL			
IC 410-311123/14		8260C			16 uL	2 uL			
IC 410-311123/15		8260C			8 uL	1 uL			
IC 410-311123/16		8260C			20 uL	2 uL			
IC 410-311123/17		8260C							
ICV 410-311123/19		8260C							

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_CCV_VOC#1 00094	MSV_CCV_VOC#3 00094	MSV_Cent_IS_O 00007	MSV_Cent_ISSS 00013	MSV_LCS_2CEVE 00084	MSV_LCS_ACROL 00081
BFB 410-311123/1		8260C							
IC 410-311123/3		8260C				5 uL			
IC 410-311123/4		8260C				5 uL			
IC 410-311123/5		8260C				5 uL			
IC 410-311123/6		8260C				5 uL			
IC 410-311123/7		8260C				5 uL			
IC 410-311123/8		8260C				5 uL			
ICV 410-311123/9		8260C				5 uL			
IC 410-311123/11		8260C		15 uL	12 uL		5 uL		
IC 410-311123/12		8260C		5 uL	4 uL		5 uL		
ICIS 410-311123/13		8260C		5 uL	4 uL		5 uL		
IC 410-311123/14		8260C		4 uL	3.2 uL		5 uL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-106360-1

SDG No.:

Batch Number: 311123 Batch Start Date: 10/27/22 12:27 Batch Analyst: Campbell, Miranda E

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_CCV_VOC#1 00094	MSV_CCV_VOC#3 00094	MSV_Cent_IS_O 00007	MSV_Cent_ISSS 00013	MSV_LCS_2CEVE 00084	MSV_LCS_ACROL 00081
IC 410-311123/15		8260C		2 uL	1.6 uL		5 uL		
IC 410-311123/16		8260C		4 uL	3.2 uL		5 uL		
IC 410-311123/17		8260C					5 uL		
ICV 410-311123/19		8260C					5 uL	50 uL	50 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LCS_CYC 00002	MSV_LCS_EE 00003	MSV_LCS_ETOH 00003	MSV_LCS_Gases 00111	MSV_LCS_LKB 00002	MSV_LCS_Penta 00021
BFB 410-311123/1		8260C							
IC 410-311123/3		8260C							
IC 410-311123/4		8260C							
IC 410-311123/5		8260C							
IC 410-311123/6		8260C							
IC 410-311123/7		8260C							
IC 410-311123/8		8260C							
ICV 410-311123/9		8260C			50 uL			100 uL	50 uL
IC 410-311123/11		8260C							
IC 410-311123/12		8260C							
ICIS 410-311123/13		8260C							
IC 410-311123/14		8260C							
IC 410-311123/15		8260C							
IC 410-311123/16		8260C							
IC 410-311123/17		8260C							
ICV 410-311123/19		8260C		50 uL		50 uL	50 uL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-106360-1

SDG No.:

Batch Number: 311123 Batch Start Date: 10/27/22 12:27 Batch Analyst: Campbell, Miranda E

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LCS_SMFre 00037	MSV_LCS_V5ACE 00016	MSV_LCS_VOC#1 00079	MSV_V_BFB 00008	MSV_V_SMFreon 00020	MSV_V_VOA2 00163
BFB 410-311123/1		8260C					1 uL		
IC 410-311123/3		8260C						7.5 uL	
IC 410-311123/4		8260C						2.5 uL	
IC 410-311123/5		8260C						2.5 uL	
IC 410-311123/6		8260C						2 uL	
IC 410-311123/7		8260C						1 uL	
IC 410-311123/8		8260C						2 uL	
ICV 410-311123/9		8260C		50 uL	50 uL				
IC 410-311123/11		8260C							
IC 410-311123/12		8260C							
ICIS 410-311123/13		8260C							
IC 410-311123/14		8260C							4 uL
IC 410-311123/15		8260C							2 uL
IC 410-311123/16		8260C							12 uL
IC 410-311123/17		8260C							
ICV 410-311123/19		8260C				50 uL			

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-106360-1

SDG No.:

Batch Number: 311125 Batch Start Date: 10/27/22 12:27 Batch Analyst: Campbell, Miranda E

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MSV_V_BFB 00008			
BFB 410-311125/1		8260C		1 uL	1 uL	1 uL			

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-106360-1

SDG No.:

Batch Number: 322343 Batch Start Date: 11/30/22 19:20 Batch Analyst: Campbell, Miranda E

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCheck	Headspace	Lot#Vial
BFB 410-322343/1		8260C		1 uL	1 uL				
CCVIS 410-322343/3		8260C		5 mL	5 mL				2663
LCS 410-322343/4		8260C		5 mL	5 mL				2663
LCSD 410-322343/5		8260C		5 mL	5 mL				2663
MB 410-322343/7		8260C		5 mL	5 mL				2663
410-106360-E-4	FBW001_FB_112022	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-106360-A-5	Trip Blank	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-106360-E-3	FBW001_112022	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-106360-E-3 MS	FBW001-MS_112022	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-106360-E-3 MSD	FBW001-MSD_112022	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-106360-E-1	FBS010_112022	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-106360-E-2	DUP-01_112022	8260C	T	5 mL	5 mL	<2 SU	N	N	

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_CCV_2CEVE 00095	MSV_CCV_GASES 00320	MSV_CCV_VOC#1 00099	MSV_CCV_VOC#3 00099	MSV_Cent_ISSS 00011	MSV_LCS_2CEVE 00089
BFB 410-322343/1		8260C							
CCVIS 410-322343/3		8260C		5 uL	2.5 uL	5 uL	4 uL	5 uL	
LCS 410-322343/4		8260C						5 uL	50 uL
LCSD 410-322343/5		8260C						5 uL	50 uL
MB 410-322343/7		8260C						5 uL	
410-106360-E-4	FBW001_FB_112022	8260C	T					5 uL	
410-106360-A-5	Trip Blank	8260C	T					5 uL	
410-106360-E-3	FBW001_112022	8260C	T					5 uL	
410-106360-E-3 MS	FBW001-MS_112022	8260C	T					5 uL	
410-106360-E-3 MSD	FBW001-MSD_112022	8260C	T					5 uL	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-106360-1

SDG No.:

Batch Number: 322343 Batch Start Date: 11/30/22 19:20 Batch Analyst: Campbell, Miranda E

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_CCV_2CEVE 00095	MSV_CCV_GASES 00320	MSV_CCV_VOC#1 00099	MSV_CCV_VOC#3 00099	MSV_Cent_ISSS 00011	MSV_LCS_2CEVE 00089
410-106360-E-1	FBS010_112022	8260C	T					5 uL	
410-106360-E-2	DUP-01_112022	8260C	T					5 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LCS_ACROL 00086	MSV_LCS_Gases 00116	MSV_LCS_VOC#1 00084	MSV_V_BFB 00008		
BFB 410-322343/1		8260C					1 uL		
CCVIS 410-322343/3		8260C							
LCS 410-322343/4		8260C		50 uL	50 uL	50 uL			
LCSD 410-322343/5		8260C		50 uL	50 uL	50 uL			
MB 410-322343/7		8260C							
410-106360-E-4	FBW001_FB_112022	8260C	T						
410-106360-A-5	Trip Blank	8260C	T						
410-106360-E-3	FBW001_112022	8260C	T						
410-106360-E-3 MS	FBW001-MS_112022	8260C	T		21.5 uL	21.5 uL			
410-106360-E-3 MSD	FBW001-MSD_112022	8260C	T		21.5 uL	21.5 uL			
410-106360-E-1	FBS010_112022	8260C	T						
410-106360-E-2	DUP-01_112022	8260C	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.

Method 8270D

Semivolatile Organic Compounds (GC/MS) by Method 8270D

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-106360-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-5MS 30m ID: 0.25(mm)

Client Sample ID	Lab Sample ID	2FP #	PHL #	NBZ #	FBP #	TBP #	TPHd14 #
FBS010_112022	410-106360-1	43	29	77	77	84	92
DUP-01_112022	410-106360-2	47	31	81	81	90	97
FBW001_112022	410-106360-3	34	22	75	74	83	71
FBW001_FB_112022	410-106360-4	45	30	79	80	85	91
	MB 410-320749/1-A	53	35	82	76	90	99
	LCS 410-320749/2-A	62	45	91	90	102	107
	LCSD 410-320749/3-A	65	46	92	86	101	107
FBW001-MS_112022 MS	410-106360-3 MS	63	45	89	89	103	106
FBW001-MSD_112022 MSD	410-106360-3 MSD	61	44	92	90	103	108

	QC LIMITS
2FP = 2-Fluorophenol (Surr)	10-120
PHL = Phenol-d5 (Surr)	10-120
NBZ = Nitrobenzene-d5 (Surr)	25-125
FBP = 2-Fluorobiphenyl (Surr)	44-120
TBP = 2,4,6-Tribromophenol (Surr)	10-150
TPHd14 = p-Terphenyl-d14 (Surr)	37-120

Column to be used to flag recovery values

FORM II 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-106360-1

SDG No.:

Matrix: Water Level: Low Lab File ID: DK2453.D

Lab ID: LCS 410-320749/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
2,4-Dimethylphenol	50.0	55	109	62-120	
2,4-Dinitrophenol	100	100	103	43-146	
2-Chlorophenol	50.0	50	99	57-120	
Carbazole	50.0	56	112	74-120	
Phenol	50.0	28	56	22-120	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-106360-1

SDG No.:

Matrix: Water Level: Low Lab File ID: DK2454.D

Lab ID: LCSD 410-320749/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
2,4-Dimethylphenol	50.0	55	109	0	30	62-120	
2,4-Dinitrophenol	100	100	101	2	30	43-146	
2-Chlorophenol	50.0	53	107	7	30	57-120	
Carbazole	50.0	57	114	1	30	74-120	
Phenol	50.0	28	57	1	30	22-120	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-106360-1

SDG No.:

Matrix: Water Level: Low Lab File ID: DK2461.D

Lab ID: 410-106360-3 MS Client ID: FBW001-MS_112022 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
2,4-Dimethylphenol	52.7	ND	57	108	62-120	
2,4-Dinitrophenol	105	ND	92	88	43-146	
2-Chlorophenol	52.7	ND	52	99	57-120	
Carbazole	52.7	ND	62	117	74-120	
Phenol	52.7	ND	30	56	22-120	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-106360-1

SDG No.:

Matrix: Water Level: Low Lab File ID: DK2462.D

Lab ID: 410-106360-3 MSD Client ID: FBW001-MSD_112022 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
2,4-Dimethylphenol	51.4	57	111	1	30	62-120	
2,4-Dinitrophenol	103	100	100	11	30	43-146	
2-Chlorophenol	51.4	51	100	2	30	57-120	
Carbazole	51.4	61	118	2	30	74-120	
Phenol	51.4	28	55	5	30	22-120	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-106360-1

SDG No.:

Lab File ID: DK2452.D Lab Sample ID: MB 410-320749/1-A

Matrix: Water Date Extracted: 11/23/2022 17:30

Instrument ID: HP19760 Date Analyzed: 11/24/2022 19:33

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-320749/2-A	DK2453.D	11/24/2022 19:53
	LCSD 410-320749/3-A	DK2454.D	11/24/2022 20:13
FBW001_112022	410-106360-3	DK2460.D	11/24/2022 22:13
FBW001-MS_112022 MS	410-106360-3 MS	DK2461.D	11/24/2022 22:33
FBW001-MSD_112022 MSD	410-106360-3 MSD	DK2462.D	11/24/2022 22:53
FBS010_112022	410-106360-1	DK2467.D	11/25/2022 00:33
DUP-01_112022	410-106360-2	DK2468.D	11/25/2022 00:53
FBW001_FB_112022	410-106360-4	DK2469.D	11/25/2022 01:13

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-106360-1

SDG No.:

Lab File ID: DK0700b.D DFTPP Injection Date: 11/07/2022

Instrument ID: HP19760 DFTPP Injection Time: 18:35

Analysis Batch No.: 314883

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	42.6	
68	Less than 2% of mass 69	1.0	(1.9) 1
69	Mass 69 Relative abundance	51.8	
70	Less than 2% of mass 69	0.4	(0.8) 1
127	10-80% of Base Peak	44.9	
197	Less than 2% of mass 198	0.5	
198	Base peak	100.0	
199	5-9% of mass 198	6.5	
275	10-60% of Base Peak	24.3	
365	Greater than 1% of mass 198	2.6	
441	present but less than 24% of mass 442	11.3	(17.0) 2
442	Greater than 50% of mass 198	66.3	
443	15-24% of mass 442	12.6	(19.0) 2

1-Value is % mass 69 2-Value is % mass 442

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
	ICIS 410-314883/2	DK0701a.D	11/07/2022	18:52
	IC 410-314883/3	DK0702.D	11/07/2022	19:20
	IC 410-314883/4	DK0703.D	11/07/2022	19:41
	IC 410-314883/5	DK0704.D	11/07/2022	20:02
	IC 410-314883/6	DK0705.D	11/07/2022	20:23
	IC 410-314883/7	DK0706.D	11/07/2022	20:44
	IC 410-314883/8	DK0707.D	11/07/2022	21:04
	IC 410-314883/9	DK0708.D	11/07/2022	21:25
	ICV 410-314883/12	DK0711.D	11/07/2022	22:28
	ICV 410-314883/13	DK0712.D	11/07/2022	22:48
	ICV 410-314883/14	DK0713.D	11/07/2022	23:09

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-106360-1

SDG No.:

Lab File ID: DK2450a.D DFTPP Injection Date: 11/24/2022

Instrument ID: HP19760 DFTPP Injection Time: 18:25

Analysis Batch No.: 320818

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	45.4	
68	Less than 2% of mass 69	0.5	(0.9) 1
69	Mass 69 Relative abundance	52.9	
70	Less than 2% of mass 69	0.0	(0.0) 1
127	10-80% of Base Peak	46.7	
197	Less than 2% of mass 198	1.3	
198	Base peak	100.0	
199	5-9% of mass 198	6.3	
275	10-60% of Base Peak	23.7	
365	Greater than 1% of mass 198	3.6	
441	present but less than 24% of mass 442	12.0	(14.2) 2
442	Greater than 50% of mass 198	84.5	
443	15-24% of mass 442	14.4	(17.0) 2

1-Value is % mass 69 2-Value is % mass 442

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 410-320818/2	DK2451.D	11/24/2022	18:45
	MB 410-320749/1-A	DK2452.D	11/24/2022	19:33
	LCS 410-320749/2-A	DK2453.D	11/24/2022	19:53
	LCSD 410-320749/3-A	DK2454.D	11/24/2022	20:13
FBW001_112022	410-106360-3	DK2460.D	11/24/2022	22:13
FBW001-MS_112022 MS	410-106360-3 MS	DK2461.D	11/24/2022	22:33
FBW001-MSD_112022 MSD	410-106360-3 MSD	DK2462.D	11/24/2022	22:53
FBS010_112022	410-106360-1	DK2467.D	11/25/2022	0:33
DUP-01_112022	410-106360-2	DK2468.D	11/25/2022	0:53
FBW001_FB_112022	410-106360-4	DK2469.D	11/25/2022	1:13

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-106360-1

SDG No.:

Sample No.: ICIS 410-314883/2 Date Analyzed: 11/07/2022 18:52

Instrument ID: HP19760 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): DK0701a.D Heated Purge: (Y/N) N

Calibration ID: 43912

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		123592	4.53	422146	5.73	260175	7.40
UPPER LIMIT		247184	5.03	844292	6.23	520350	7.90
LOWER LIMIT		61796	4.03	211073	5.23	130088	6.90
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-314883/12		116297	4.52	422027	5.73	264601	7.40
ICV 410-314883/13		131012	4.52	454274	5.73	267638	7.40
ICV 410-314883/14		117125	4.52	401710	5.73	249366	7.39
CCVIS 410-320818/2		133070	4.41	480708	5.62	301180	7.29

DCBd4 = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

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 8270D

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-106360-1

SDG No.:

Sample No.: ICIS 410-314883/2 Date Analyzed: 11/07/2022 18:52

Instrument ID: HP19760 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): DK0701a.D Heated Purge: (Y/N) N

Calibration ID: 43912

		PHN		PYR10		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		523765	8.81	552251	10.16	459248	13.44
UPPER LIMIT		1047530	9.31	1104502	10.66	918496	13.94
LOWER LIMIT		261883	8.31	276126	9.66	229624	12.94
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-314883/12		522723	8.80	547418	10.16	446400	13.44
ICV 410-314883/13		555133	8.80	564610	10.16	436855	13.44
ICV 410-314883/14		507304	8.80	521977	10.16	391539	13.44
CCVIS 410-320818/2		619790	8.69	652780	10.04	503357	13.25

PHN = Phenanthrene-d10
PYR10 = Pyrene-d10 (IS)
PRY = Perylene-d12

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 8270D

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-106360-1

SDG No.:

Sample No.: CCVIS 410-320818/2 Date Analyzed: 11/24/2022 18:45

Instrument ID: HP19760 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): DK2451.D Heated Purge: (Y/N) N

Calibration ID: 44139

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		133070	4.41	480708	5.62	301180	7.29
UPPER LIMIT		266140	4.91	961416	6.12	602360	7.79
LOWER LIMIT		66535	3.91	240354	5.12	150590	6.79
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 410-320749/1-A		121934	4.41	426773	5.62	260715	7.29
LCS 410-320749/2-A		109110	4.40	376174	5.62	230771	7.29
LCSD 410-320749/3-A		95867	4.40	353143	5.62	219587	7.29
410-106360-3	FBW001_112022	125953	4.41	434914	5.62	264818	7.29
410-106360-3 MS	FBW001-MS_112022 MS	109102	4.41	383112	5.62	237172	7.29
410-106360-3 MSD	FBW001-MSD_112022 MSD	117938	4.41	404254	5.62	248768	7.29
410-106360-1	FBS010_112022	115966	4.41	402938	5.62	243150	7.29
410-106360-2	DUP-01_112022	110979	4.41	388038	5.62	229571	7.29
410-106360-4	FBW001_FB_112022	114317	4.41	400772	5.62	236752	7.29

DCBd4 = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

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 8270D

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-106360-1

SDG No.:

Sample No.: CCVIS 410-320818/2 Date Analyzed: 11/24/2022 18:45

Instrument ID: HP19760 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): DK2451.D Heated Purge: (Y/N) N

Calibration ID: 44139

		PHN		PYR10		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		619790	8.69	652780	10.04	503357	13.25
UPPER LIMIT		1239580	9.19	1305560	10.54	1006714	13.75
LOWER LIMIT		309895	8.19	326390	9.54	251679	12.75
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 410-320749/1-A		525302	8.69	522055	10.05	362267	13.25
LCS 410-320749/2-A		475559	8.69	488942	10.04	371009	13.25
LCSD 410-320749/3-A		436071	8.69	454772	10.04	344179	13.25
410-106360-3	FBW001_112022	533764	8.69	549392	10.04	381221	13.25
410-106360-3 MS	FBW001-MS_112022 MS	473177	8.69	489611	10.04	373333	13.25
410-106360-3 MSD	FBW001-MSD_112022 MSD	494097	8.69	513604	10.04	384738	13.25
410-106360-1	FBS010_112022	489584	8.69	485768	10.04	339925	13.25
410-106360-2	DUP-01_112022	465010	8.69	473982	10.04	332862	13.25
410-106360-4	FBW001_FB_112022	481724	8.69	491989	10.04	337199	13.25

PHN = Phenanthrene-d10
PYR10 = Pyrene-d10 (IS)
PRY = Perylene-d12

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 8270D

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-106360-1

SDG No.:

Client Sample ID: FBS010_112022
Lab Sample ID: 410-106360-1

Matrix: Water
Lab File ID: DK2467.D

Analysis Method: 8270D
Date Collected: 11/17/2022 10:33

Extract. Method: 3510C
Date Extracted: 11/23/2022 17:30

Sample wt/vol: 235.5(mL)
Date Analyzed: 11/25/2022 00:33

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 320818
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
105-67-9	2,4-Dimethylphenol	ND		10	3
51-28-5	2,4-Dinitrophenol	ND		30	10
95-57-8	2-Chlorophenol	ND		2	0.5
86-74-8	Carbazole	ND		2	0.5
108-95-2	Phenol	ND		2	0.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	84		10-150
321-60-8	2-Fluorobiphenyl (Surr)	77		44-120
367-12-4	2-Fluorophenol (Surr)	43		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	77		25-125
4165-62-2	Phenol-d5 (Surr)	29		10-120
1718-51-0	p-Terphenyl-d14 (Surr)	92		37-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP19760\20221124-71888.b\DK2467.D
Lims ID: 410-106360-B-1-B
Client ID: FBS010_112022
Sample Type: Client
Inject. Date: 25-Nov-2022 00:33:30 ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-106360-B-1-B
Misc. Info.: 410-0071888-017
Operator ID: mem41592 Instrument ID: HP19760

Method: \\chromfs\Lancaster\ChromData\HP19760\20221124-71888.b\MSSemi_HP19760.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 27-Nov-2022 17:14:00 Calib Date: 14-Nov-2022 21:19:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP19760\20221114-71142.b\DK1465.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1672

First Level Reviewer: P7EB Date: 27-Nov-2022 17:12:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
$ 10 2-Fluorophenol	112	3.151	3.151	0.000	94	690492	21.7	
$ 16 Phenol-d5	99	4.031	4.031	0.000	93	634382	14.6	
17 Phenol	94		4.049				ND	7
20 2-Chlorophenol	128		4.200				ND	7
* 22 1,4-Dichlorobenzene-d4	152	4.410	4.410	0.000	97	115966	5.00	
$ 39 Nitrobenzene-d5	82	4.935	4.940	0.000	87	799597	19.2	
45 2,4-Dimethylphenol	107		5.290				ND	
* 50 Naphthalene-d8	136	5.622	5.622	0.000	99	402938	5.00	
$ 73 2-Fluorobiphenyl (Surr)	172	6.654	6.654	0.000	100	1366656	19.2	
* 90 Acenaphthene-d10	164	7.289	7.289	0.000	94	243150	5.00	
92 2,4-Dinitrophenol	184		7.348				ND	
$ 109 2,4,6-Tribromophenol	330	8.035	8.036	0.000	94	490225	42.0	
* 126 Phenanthrene-d10	188	8.694	8.694	0.000	97	489584	5.00	
130 Carbazole	167		8.921				ND	7
* 149 Pyrene-d10 (IS)	212	10.041	10.040	0.001	98	485768	5.00	
$ 152 p-Terphenyl-d14	244	10.221	10.221	0.000	97	2037902	22.9	
* 170 Perylene-d12	264	13.252	13.252	0.000	99	339925	5.00	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSS_RV8270_IS_00038 Amount Added: 20.00 Units: uL Run Reagent

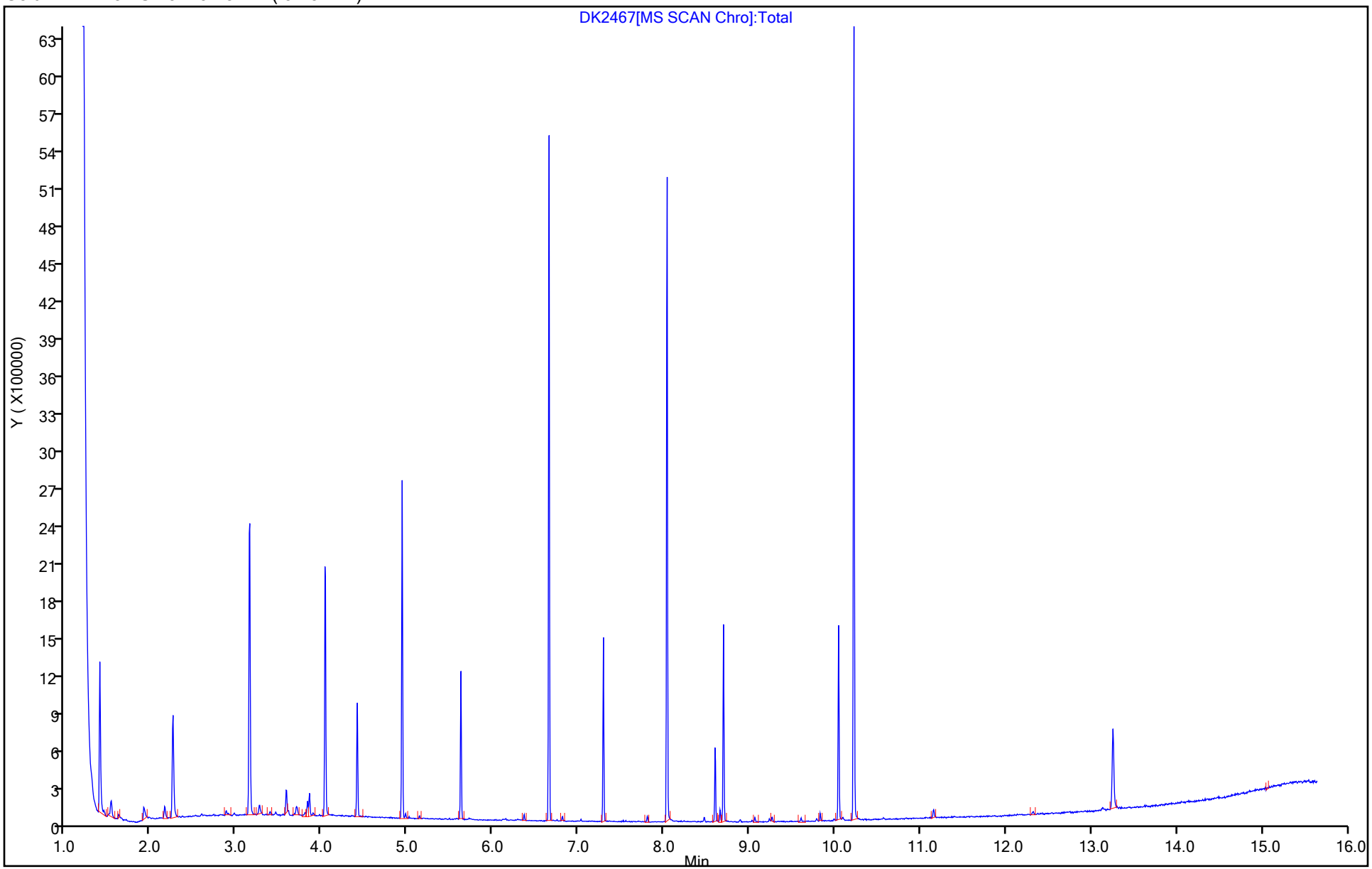
Report Date: 27-Nov-2022 17:14:15 Chrom Revision: 2.3 21-Nov-2022 18:34:02

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP19760\20221124-71888.b\DK2467.D

Injection Date:	25-Nov-2022 00:33:30	Instrument ID:	HP19760	Operator ID:	mem41592
Lims ID:	410-106360-B-1-B	Lab Sample ID:	410-106360-1	Worklist Smp#:	17
Client ID:	FBS010_112022				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	MSSemi_HP19760	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\HP19760\20221124-71888.b\DK2467.D
Lims ID: 410-106360-B-1-B
Client ID: FBS010_112022
Sample Type: Client
Inject. Date: 25-Nov-2022 00:33:30 ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-106360-B-1-B
Misc. Info.: 410-0071888-017
Operator ID: mem41592 Instrument ID: HP19760

Method: \\chromfs\Lancaster\ChromData\HP19760\20221124-71888.b\MSSemi_HP19760.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 27-Nov-2022 17:14:00 Calib Date: 14-Nov-2022 21:19:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP19760\20221114-71142.b\DK1465.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1672

First Level Reviewer: P7EB Date: 27-Nov-2022 17:12:30

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 2-Fluorophenol	50.0	21.7	43.48
$ 16 Phenol-d5	50.0	14.6	29.29
$ 39 Nitrobenzene-d5	25.0	19.2	76.73
$ 73 2-Fluorobiphenyl (Surr)	25.0	19.2	76.63
$ 109 2,4,6-Tribromophenol	50.0	42.0	83.97
$ 152 p-Terphenyl-d14	25.0	22.9	91.58

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-106360-1

SDG No.:

Client Sample ID: DUP-01_112022
Lab Sample ID: 410-106360-2

Matrix: Water
Lab File ID: DK2468.D

Analysis Method: 8270D
Date Collected: 11/17/2022 12:00

Extract. Method: 3510C
Date Extracted: 11/23/2022 17:30

Sample wt/vol: 239.5(mL)
Date Analyzed: 11/25/2022 00:53

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 320818
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
105-67-9	2,4-Dimethylphenol	ND		10	3
51-28-5	2,4-Dinitrophenol	ND		30	10
95-57-8	2-Chlorophenol	ND		2	0.5
86-74-8	Carbazole	ND		2	0.5
108-95-2	Phenol	ND		2	0.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	90		10-150
321-60-8	2-Fluorobiphenyl (Surr)	81		44-120
367-12-4	2-Fluorophenol (Surr)	47		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	81		25-125
4165-62-2	Phenol-d5 (Surr)	31		10-120
1718-51-0	p-Terphenyl-d14 (Surr)	97		37-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP19760\20221124-71888.b\DK2468.D
Lims ID: 410-106360-B-2-B
Client ID: DUP-01_112022
Sample Type: Client
Inject. Date: 25-Nov-2022 00:53:30 ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-106360-B-2-B
Misc. Info.: 410-0071888-018
Operator ID: mem41592 Instrument ID: HP19760

Method: \\chromfs\Lancaster\ChromData\HP19760\20221124-71888.b\MSSemi_HP19760.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 27-Nov-2022 17:14:00 Calib Date: 14-Nov-2022 21:19:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP19760\20221114-71142.b\DK1465.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1672

First Level Reviewer: P7EB Date: 27-Nov-2022 17:12:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
$ 10 2-Fluorophenol	112	3.151	3.151	0.000	93	707826	23.3	
$ 16 Phenol-d5	99	4.037	4.031	0.006	93	644668	15.6	
17 Phenol	94		4.049				ND	7
20 2-Chlorophenol	128		4.200				ND	
* 22 1,4-Dichlorobenzene-d4	152	4.410	4.410	0.000	97	110979	5.00	
$ 39 Nitrobenzene-d5	82	4.935	4.940	0.000	89	816955	20.4	
45 2,4-Dimethylphenol	107		5.290				ND	
* 50 Naphthalene-d8	136	5.622	5.622	0.000	99	388038	5.00	
$ 73 2-Fluorobiphenyl (Surr)	172	6.654	6.654	0.000	100	1363267	20.2	
* 90 Acenaphthene-d10	164	7.289	7.289	0.000	95	229571	5.00	
92 2,4-Dinitrophenol	184		7.348				ND	
$ 109 2,4,6-Tribromophenol	330	8.036	8.036	0.001	94	494382	44.8	
* 126 Phenanthrene-d10	188	8.694	8.694	0.000	96	465010	5.00	
130 Carbazole	167		8.921				ND	7
* 149 Pyrene-d10 (IS)	212	10.041	10.040	0.001	98	473982	5.00	
$ 152 p-Terphenyl-d14	244	10.221	10.221	0.000	97	2102179	24.2	
* 170 Perylene-d12	264	13.252	13.252	0.000	99	332862	5.00	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSS_RV8270_IS_00038 Amount Added: 20.00 Units: uL Run Reagent

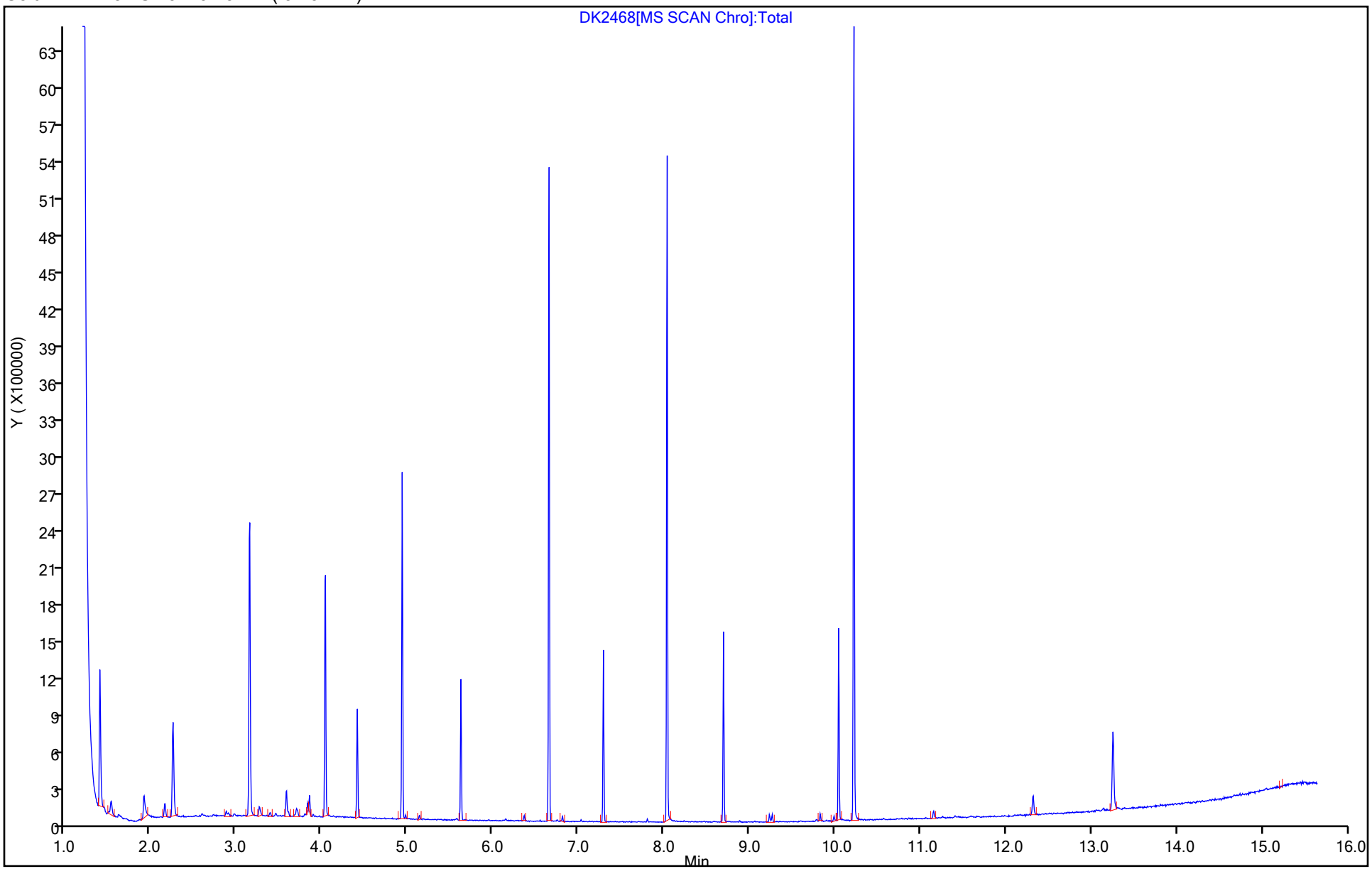
Report Date: 27-Nov-2022 17:14:17 Chrom Revision: 2.3 21-Nov-2022 18:34:02

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP19760\20221124-71888.b\DK2468.D

Injection Date:	25-Nov-2022 00:53:30	Instrument ID:	HP19760	Operator ID:	mem41592
Lims ID:	410-106360-B-2-B	Lab Sample ID:	410-106360-2	Worklist Smp#:	18
Client ID:	DUP-01_112022				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	MSSemi_HP19760	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\HP19760\20221124-71888.b\DK2468.D
Lims ID: 410-106360-B-2-B
Client ID: DUP-01_112022
Sample Type: Client
Inject. Date: 25-Nov-2022 00:53:30 ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-106360-B-2-B
Misc. Info.: 410-0071888-018
Operator ID: mem41592 Instrument ID: HP19760

Method: \\chromfs\Lancaster\ChromData\HP19760\20221124-71888.b\MSSemi_HP19760.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 27-Nov-2022 17:14:00 Calib Date: 14-Nov-2022 21:19:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP19760\20221114-71142.b\DK1465.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1672

First Level Reviewer: P7EB Date: 27-Nov-2022 17:12:45

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 2-Fluorophenol	50.0	23.3	46.58
$ 16 Phenol-d5	50.0	15.6	31.10
$ 39 Nitrobenzene-d5	25.0	20.4	81.41
$ 73 2-Fluorobiphenyl (Surr)	25.0	20.2	80.97
$ 109 2,4,6-Tribromophenol	50.0	44.8	89.69
$ 152 p-Terphenyl-d14	25.0	24.2	96.82

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-106360-1

SDG No.:

Client Sample ID: FBW001_112022
Lab Sample ID: 410-106360-3

Matrix: Water
Lab File ID: DK2460.D

Analysis Method: 8270D
Date Collected: 11/17/2022 10:20

Extract. Method: 3510C
Date Extracted: 11/23/2022 17:30

Sample wt/vol: 242.9(mL)
Date Analyzed: 11/24/2022 22:13

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 320818
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
105-67-9	2,4-Dimethylphenol	ND		10	3
51-28-5	2,4-Dinitrophenol	ND		30	10
95-57-8	2-Chlorophenol	ND		2	0.5
86-74-8	Carbazole	ND		2	0.5
108-95-2	Phenol	ND		2	0.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	83		10-150
321-60-8	2-Fluorobiphenyl (Surr)	74		44-120
367-12-4	2-Fluorophenol (Surr)	34		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	75		25-125
4165-62-2	Phenol-d5 (Surr)	22		10-120
1718-51-0	p-Terphenyl-d14 (Surr)	71		37-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP19760\20221124-71888.b\DK2460.D
Lims ID: 410-106360-B-3-D
Client ID: FBW001_112022
Sample Type: Client
Inject. Date: 24-Nov-2022 22:13:30 ALS Bottle#: 10 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-106360-B-3-D
Misc. Info.: 410-0071888-009
Operator ID: mem41592 Instrument ID: HP19760

Method: \\chromfs\Lancaster\ChromData\HP19760\20221124-71888.b\MSSemi_HP19760.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 27-Nov-2022 17:14:00 Calib Date: 14-Nov-2022 21:19:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP19760\20221114-71142.b\DK1465.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1672

First Level Reviewer: P7EB Date: 27-Nov-2022 17:00:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
$ 10 2-Fluorophenol	112	3.145	3.151	-0.006	93	584647	16.9	
$ 16 Phenol-d5	99	4.031	4.031	0.000	94	519269	11.0	
17 Phenol	94		4.049				ND	7
20 2-Chlorophenol	128		4.200				ND	7
* 22 1,4-Dichlorobenzene-d4	152	4.410	4.410	0.000	97	125953	5.00	
$ 39 Nitrobenzene-d5	82	4.935	4.940	0.000	87	841491	18.7	
45 2,4-Dimethylphenol	107		5.290				ND	
* 50 Naphthalene-d8	136	5.623	5.622	0.000	99	434914	5.00	
$ 73 2-Fluorobiphenyl (Surr)	172	6.654	6.654	0.000	100	1444066	18.6	
* 90 Acenaphthene-d10	164	7.289	7.289	0.000	95	264818	5.00	
92 2,4-Dinitrophenol	184		7.348				ND	
$ 109 2,4,6-Tribromophenol	330	8.036	8.036	0.001	94	529526	41.6	
* 126 Phenanthrene-d10	188	8.694	8.694	0.000	97	533764	5.00	
130 Carbazole	167		8.921				ND	7
* 149 Pyrene-d10 (IS)	212	10.041	10.040	0.001	98	549392	5.00	
$ 152 p-Terphenyl-d14	244	10.221	10.221	0.000	97	1787267	17.8	
* 170 Perylene-d12	264	13.252	13.252	0.000	99	381221	5.00	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSS_RV8270_IS_00038 Amount Added: 20.00 Units: uL Run Reagent

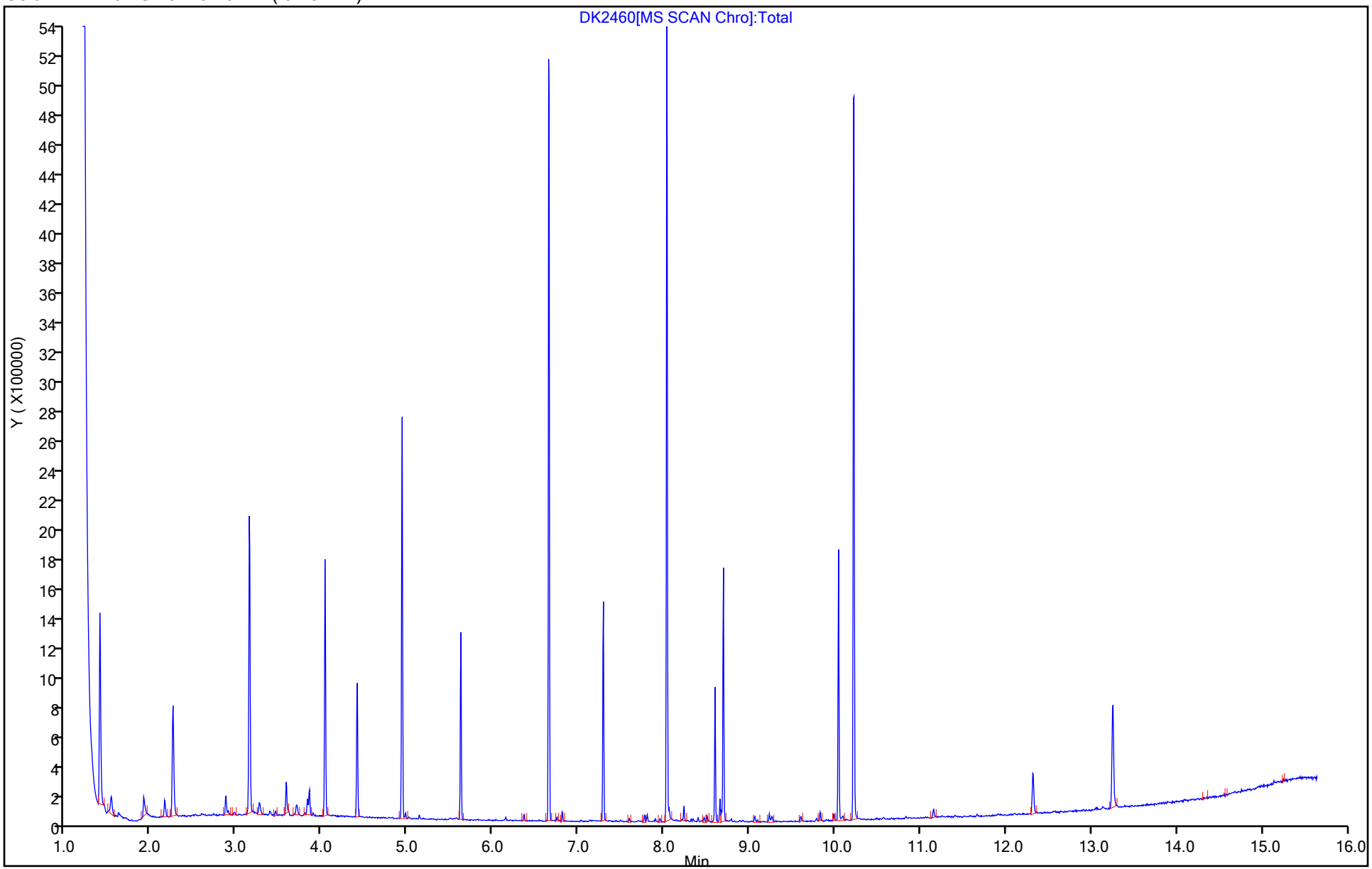
Report Date: 27-Nov-2022 17:14:02 Chrom Revision: 2.3 21-Nov-2022 18:34:02

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP19760\20221124-71888.b\DK2460.D

Injection Date:	24-Nov-2022 22:13:30	Instrument ID:	HP19760	Operator ID:	mem41592
Lims ID:	410-106360-B-3-D	Lab Sample ID:	410-106360-3	Worklist Smp#:	9
Client ID:	FBW001_112022				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	MSSemi_HP19760	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP19760\20221124-71888.b\DK2460.D				
Lims ID:	410-106360-B-3-D				
Client ID:	FBW001_112022				
Sample Type:	Client				
Inject. Date:	24-Nov-2022 22:13:30	ALS Bottle#:	10	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-106360-B-3-D				
Misc. Info.:	410-0071888-009				
Operator ID:	mem41592	Instrument ID:	HP19760		
Method:	\\chromfs\Lancaster\ChromData\HP19760\20221124-71888.b\MSSemi_HP19760.m				
Limit Group:	MSSV - 8270D_E LVI				
Last Update:	27-Nov-2022 17:14:00	Calib Date:	14-Nov-2022 21:19:30		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP19760\20221114-71142.b\DK1465.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1672				

First Level Reviewer: P7EB Date: 27-Nov-2022 17:00:16

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 2-Fluorophenol	50.0	16.9	33.90
$ 16 Phenol-d5	50.0	11.0	22.07
$ 39 Nitrobenzene-d5	25.0	18.7	74.82
$ 73 2-Fluorobiphenyl (Surr)	25.0	18.6	74.35
$ 109 2,4,6-Tribromophenol	50.0	41.6	83.28
$ 152 p-Terphenyl-d14	25.0	17.8	71.01

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-106360-1

SDG No.:

Client Sample ID: FBW001_FB_112022
Lab Sample ID: 410-106360-4

Matrix: Water
Lab File ID: DK2469.D

Analysis Method: 8270D
Date Collected: 11/17/2022 10:14

Extract. Method: 3510C
Date Extracted: 11/23/2022 17:30

Sample wt/vol: 237.5(mL)
Date Analyzed: 11/25/2022 01:13

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 320818
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
105-67-9	2,4-Dimethylphenol	ND		10	3
51-28-5	2,4-Dinitrophenol	ND		30	10
95-57-8	2-Chlorophenol	ND		2	0.5
86-74-8	Carbazole	ND		2	0.5
108-95-2	Phenol	ND		2	0.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	85		10-150
321-60-8	2-Fluorobiphenyl (Surr)	80		44-120
367-12-4	2-Fluorophenol (Surr)	45		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	79		25-125
4165-62-2	Phenol-d5 (Surr)	30		10-120
1718-51-0	p-Terphenyl-d14 (Surr)	91		37-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP19760\20221124-71888.b\DK2469.D
Lims ID: 410-106360-B-4-B
Client ID: FBW001_FB_112022
Sample Type: Client
Inject. Date: 25-Nov-2022 01:13:30 ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-106360-B-4-B
Misc. Info.: 410-0071888-019
Operator ID: mem41592 Instrument ID: HP19760

Method: \\chromfs\Lancaster\ChromData\HP19760\20221124-71888.b\MSSemi_HP19760.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 27-Nov-2022 17:14:00 Calib Date: 14-Nov-2022 21:19:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP19760\20221114-71142.b\DK1465.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1672

First Level Reviewer: P7EB Date: 27-Nov-2022 17:13:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
$ 10 2-Fluorophenol	112	3.151	3.151	0.000	93	711119	22.7	
$ 16 Phenol-d5	99	4.037	4.031	0.006	94	645126	15.1	
17 Phenol	94		4.049				ND	7
20 2-Chlorophenol	128		4.200				ND	
* 22 1,4-Dichlorobenzene-d4	152	4.410	4.410	0.000	96	114317	5.00	
$ 39 Nitrobenzene-d5	82	4.935	4.940	0.000	87	820736	19.8	
45 2,4-Dimethylphenol	107		5.290				ND	
* 50 Naphthalene-d8	136	5.622	5.622	0.000	99	400772	5.00	
$ 73 2-Fluorobiphenyl (Surr)	172	6.654	6.654	0.000	100	1382728	19.9	
* 90 Acenaphthene-d10	164	7.289	7.289	0.000	96	236752	5.00	
92 2,4-Dinitrophenol	184		7.348				ND	
$ 109 2,4,6-Tribromophenol	330	8.035	8.036	0.000	94	485496	42.7	
* 126 Phenanthrene-d10	188	8.694	8.694	0.000	97	481724	5.00	
130 Carbazole	167		8.921				ND	
* 149 Pyrene-d10 (IS)	212	10.041	10.040	0.001	98	491989	5.00	
$ 152 p-Terphenyl-d14	244	10.221	10.221	0.000	97	2040747	22.6	
* 170 Perylene-d12	264	13.252	13.252	0.000	99	337199	5.00	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSS_RV8270_IS_00038 Amount Added: 20.00 Units: uL Run Reagent

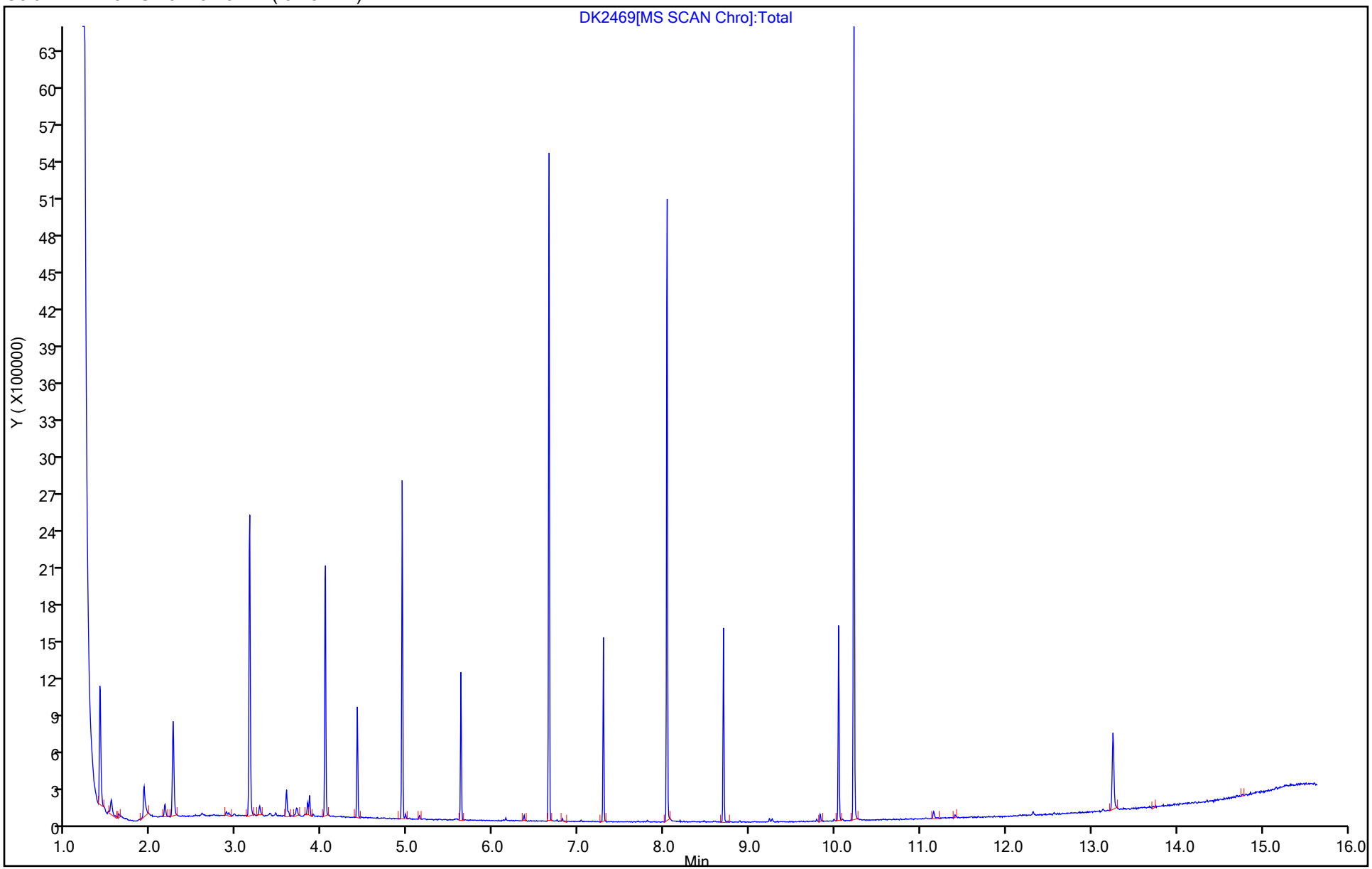
Report Date: 27-Nov-2022 17:14:18 Chrom Revision: 2.3 21-Nov-2022 18:34:02

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP19760\20221124-71888.b\DK2469.D

Injection Date:	25-Nov-2022 01:13:30	Instrument ID:	HP19760	Operator ID:	mem41592
Lims ID:	410-106360-B-4-B	Lab Sample ID:	410-106360-4	Worklist Smp#:	19
Client ID:	FBW001_FB_112022				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	MSSemi_HP19760	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\HP19760\20221124-71888.b\DK2469.D
Lims ID: 410-106360-B-4-B
Client ID: FBW001_FB_112022
Sample Type: Client
Inject. Date: 25-Nov-2022 01:13:30 ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-106360-B-4-B
Misc. Info.: 410-0071888-019
Operator ID: mem41592 Instrument ID: HP19760

Method: \\chromfs\Lancaster\ChromData\HP19760\20221124-71888.b\MSSemi_HP19760.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 27-Nov-2022 17:14:00 Calib Date: 14-Nov-2022 21:19:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP19760\20221114-71142.b\DK1465.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1672

First Level Reviewer: P7EB Date: 27-Nov-2022 17:13:02

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 2-Fluorophenol	50.0	22.7	45.43
$ 16 Phenol-d5	50.0	15.1	30.21
$ 39 Nitrobenzene-d5	25.0	19.8	79.19
$ 73 2-Fluorobiphenyl (Surr)	25.0	19.9	79.63
$ 109 2,4,6-Tribromophenol	50.0	42.7	85.40
$ 152 p-Terphenyl-d14	25.0	22.6	90.55

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1 Analy Batch No.: 314883

SDG No.:

Instrument ID: HP19760 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/07/2022 18:52 Calibration End Date: 11/07/2022 21:25 Calibration ID: 43912

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-314883/3	DK0702.D
Level 2	IC 410-314883/4	DK0703.D
Level 3	IC 410-314883/9	DK0708.D
Level 4	IC 410-314883/8	DK0707.D
Level 5	IC 410-314883/7	DK0706.D
Level 6	ICIS 410-314883/2	DK0701a.D
Level 7	IC 410-314883/6	DK0705.D
Level 8	IC 410-314883/5	DK0704.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,4-Dioxane	+++++ 0.6421	+++++ 0.6646	0.6338 0.6548	0.6074	0.6803	Ave		0.6472				3.9		20.0			
N-Nitrosodimethylamine	1.1885 1.0582	1.4815 1.0849	1.0812 1.0657	0.9727	1.1045	Ave		1.1296				13.6		20.0			
Pyridine	2.0544 1.6861	1.8199 1.7083	1.5945 1.6956	1.5304	1.7372	Ave		1.7283				9.2		20.0			
N,N-dimethylformamide	+++++ 1.0158	+++++ 1.1393	1.1523 1.1716	0.9093	1.1396	Ave		1.0880				9.5		20.0			
2-Picoline	1.6956 1.7291	1.8355 1.7218	1.6780 1.7378	1.5542	1.7631	Ave		1.7144				4.7		20.0			
N-Nitrosomethylethylamine	+++++ 0.7611	+++++ 0.7557	0.8577 0.7526	0.6849	0.7751	Ave		0.7645				7.3		20.0			
Methyl methanesulfonate	1.0251 1.0567	0.9358 1.0528	0.9747 1.0650	0.9528	1.0612	Ave		1.0155				5.2		20.0			
N-Nitrosodiethylamine	0.7042 0.7150	0.6976 0.7005	0.6142 0.7010	0.6152	0.7025	Ave		0.6813				6.1		20.0			
Ethyl methanesulfonate	0.7290 0.7706	0.8002 0.7475	0.6819 0.7679	0.6996	0.7722	Ave		0.7461				5.4		20.0			
Benzaldehyde	1.4074	1.7109 1.3393	1.4779 1.2753	1.4417	1.5021	Ave		1.4507			0.0100	9.6		20.0			
Phenol	2.0448 1.9316	1.8017 1.9648	1.7530 1.9424	1.7597	1.9851	Ave		1.8979			0.8000	5.8		20.0			
Aniline	2.2995 2.3191	2.0066 2.3736	2.1506 2.3277	2.1047	2.3863	Ave		2.2460				6.2		20.0			
Bis(2-chloroethyl)ether	1.2878 1.5968	1.6680 1.5880	1.4831 1.5763	1.4153	1.5994	Ave		1.5269			0.7000	8.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1 Analy Batch No.: 314883

SDG No.:

Instrument ID: HP19760 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/07/2022 18:52 Calibration End Date: 11/07/2022 21:25 Calibration ID: 43912

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
2-Chlorophenol	1.2733 1.3069	1.1172 1.3149	1.1082 1.2782	1.1487	1.3124	Ave		1.2325			0.8000	7.4		20.0			
1,3-Dichlorobenzene	1.6494 1.4862	1.3588 1.4865	1.4753 1.4731	1.3240	1.5229	Ave		1.4720				6.8		20.0			
1,4-Dichlorobenzene	1.5829 1.5074	1.5019 1.5050	1.4448 1.4874	1.3742	1.5580	Ave		1.4952				4.3		20.0			
Benzyl alcohol	1.0672 0.9093	0.8788 0.9386	0.8394 0.9121	0.8124	0.9194	Ave		0.9097				8.4		20.0			
1,2-Dichlorobenzene	1.3647 1.4169	1.5184 1.4247	1.3618 1.3980	1.2898	1.4628	Ave		1.4046				4.9		20.0			
2-Methylphenol	1.3161 1.2738	1.2645 1.2763	1.1146 1.2794	1.1097	1.3030	Ave		1.2422			0.7000	6.6		20.0			
2,2'-oxybis[1-chloropropane]	2.0272 1.7125	2.3239 1.6876	1.6467 1.6693	1.5032	1.7460	Ave		1.7895			0.0100	14.6		20.0			
N-Nitrosopyrrolidine	0.6663 0.7498	0.6522 0.7543	0.6812 0.7588	0.6554	0.7561	Ave		0.7093				7.0		20.0			
4-Methylphenol (and/or 3-Methylphenol)	1.5770 1.3208	1.4498 1.3468	1.1854 1.3586	1.1573	1.3573	Ave		1.3441			0.6000	10.0		20.0			
N-Nitrosodi-n-propylamine	1.2599 1.2771	1.2429 1.3058	1.1881 1.3174	1.1262	1.3018	Ave		1.2524			0.5000	5.3		20.0			
Acetophenone	2.2957 2.1143	2.0844 2.1123	2.0120 2.1207	1.9146	2.2164	Ave		2.1088			0.0100	5.5		20.0			
N-Nitrosomorpholine	1.1641 0.8996	1.0743 0.9077	0.7376 0.9034	0.8049	0.9146	Ave		0.9258				14.7		20.0			
o-Toluidine	2.3781 2.3126	2.2608 2.3622	2.0685 2.3345	2.0609	2.3946	Ave		2.2715				5.9		20.0			
Hexachloroethane	0.7211 0.6386	0.6960 0.6333	0.5828 0.6215	0.5882	0.6434	Ave		0.6406			0.3000	7.5		20.0			
Nitrobenzene	0.7009 0.5386	0.5378 0.5437	0.4556 0.5229	0.4435	0.5411	Ave		0.5355			0.2000	14.5		20.0			
N-Nitrosopiperidine	0.2169 0.2015	0.1827 0.2019	0.1792 0.1977	0.1633	0.2009	Ave		0.1930				8.7		20.0			
Isophorone	0.9618 0.9201	0.7822 0.9368	0.8184 0.9096	0.7550	0.9127	Ave		0.8746			0.4000	8.9		20.0			
2-Nitrophenol	0.1523 0.1925	0.1858 0.1961	0.1420 0.1912	0.1399	0.1850	Ave		0.1731			0.1000	13.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1 Analy Batch No.: 314883

SDG No.:

Instrument ID: HP19760 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/07/2022 18:52 Calibration End Date: 11/07/2022 21:25 Calibration ID: 43912

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
2,4-Dimethylphenol	0.4525 0.4322	0.3792 0.4476	0.3691 0.4354	0.3663	0.4300	Ave		0.4140			0.2000	8.7		20.0			
o,o',o''-Triethylphosphorothioate	0.2657 0.2274	0.1950 0.2405	0.2168 0.2299	0.1947	0.2360	Ave		0.2257				10.5		20.0			
Bis(2-chloroethoxy)methane	0.6095 0.5470	0.5954 0.5499	0.4675 0.5382	0.4583	0.5508	Ave		0.5396			0.3000	9.9		20.0			
2,4-Dichlorophenol	0.3723 0.3306	0.2604 0.3437	0.2743 0.3302	0.2597	0.3264	Ave		0.3122			0.2000	13.4		20.0			
1,2,4-Trichlorobenzene	+++++ 0.3924	0.4283 0.3983	0.3740 0.3836	0.3394	0.4006	Ave		0.3881				7.0		20.0			
Naphthalene	1.0847 1.0883	1.1370 1.1012	1.0366 1.0588	0.9217	1.1037	Ave		1.0665			0.7000	6.2		20.0			
a-Terpineol	0.3523 0.3608	0.3503 0.3701	0.3163 0.3559	0.2883	0.3549	Ave		0.3436				7.9		20.0			
4-Chloroaniline	0.3377 0.4540	0.4138 0.4674	0.3898 0.4503	0.3723	0.4581	Ave		0.4179			0.0100	11.3		20.0			
2,6-Dichlorophenol	0.3324 0.3342	0.2804 0.3420	0.2643 0.3327	0.2668	0.3337	Ave		0.3108				10.9		20.0			
Hexachloropropene	0.3391 0.3224	0.3254 0.3265	0.2772 0.3246	0.2602	0.3214	Ave		0.3121				8.9		20.0			
Hexachlorobutadiene	0.3078 0.2701	0.2552 0.2746	0.2573 0.2678	0.2260	0.2785	Ave		0.2672			0.0100	8.7		20.0			
Quinoline	0.6607 0.6852	0.6880 0.6942	0.5853 0.6784	0.5581	0.6764	Ave		0.6533				7.9		20.0			
Caprolactam	0.1000	0.1071 0.1103	0.0741 0.1098	0.0887	0.1002	Ave		0.0986			0.0100	13.3		20.0			
N-Nitrosodi-n-butylamine	0.4459 0.4061	0.4634 0.4309	0.3123 0.4267	0.3349	0.3998	Ave		0.4025				13.2		20.0			
1,4-phenylenediamine	0.4056 0.4030	0.2994 0.4087	0.3206 0.4017	0.3114	0.3888	Ave		0.3674				13.0		20.0			
4-Chloro-3-methylphenol	0.3422 0.3571	0.3353 0.3740	0.3045 0.3673	0.2816	0.3619	Ave		0.3405			0.2000	9.5		20.0			
Safrole, Total	0.2913 0.3023	0.2916 0.3109	0.2676 0.3107	0.2513	0.2956	Ave		0.2901				7.2		20.0			
2-Methylnaphthalene	0.7102 0.6689	0.6723 0.6962	0.6299 0.6772	0.5532	0.6959	Ave		0.6630			0.4000	7.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1 Analy Batch No.: 314883

SDG No.:

Instrument ID: HP19760 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/07/2022 18:52 Calibration End Date: 11/07/2022 21:25 Calibration ID: 43912

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1-Methylnaphthalene	0.6620 0.6836	0.7141 0.7110	0.6323 0.6893	0.5923	0.6930	Ave		0.6722				6.2		20.0			
Hexachlorocyclopentadiene	0.5478 0.5696	0.5933 0.5540	0.5519 0.5643	0.5146	0.5680	Ave		0.5579			0.0500	4.0		20.0			
1,2,4,5-Tetrachlorobenzene	0.9161 0.7581	0.7418 0.7425	0.7375 0.7569	0.6937	0.7637	Ave		0.7638			0.0100	8.5		20.0			
Isosafrole Peak 1	+++++ 0.5793	0.4067 0.5366	0.4932 0.5706	0.5079	0.5534	Ave		0.5211				11.4		20.0			
2,4,6-Trichlorophenol	0.3983 0.4393	0.4246 0.4313	0.3881 0.4407	0.3784	0.4278	Ave		0.4161			0.2000	5.8		20.0			
2,4,5-Trichlorophenol	0.5283 0.4853	0.3526 0.4770	0.3933 0.4912	0.4217	0.4777	Ave		0.4534			0.2000	12.9		20.0			
Isosafrole Peak 2	0.6798 0.6173	0.6403 0.5831	0.5406 0.6093	0.5494	0.6037	Ave		0.6029				7.6		20.0			
1,1'-Biphenyl	1.5890 1.5376	1.6954 1.4807	1.4843 1.5045	1.4119	1.5471	Ave		1.5313			0.0100	5.5		20.0			
2-Chloronaphthalene	1.3863 1.2344	1.1035 1.2441	1.1142 1.2319	1.0756	1.1265	Ave		1.1896			0.8000	8.7		20.0			
1-Chloronaphthalene	1.1287 1.1418	1.3942 1.0327	1.1248 1.1156	1.0937	1.2349	Ave		1.1583				9.5		20.0			
Diphenyl ether	0.9328 0.8689	0.9140 0.8475	0.8606 0.8610	0.7985	0.8826	Ave		0.8707				4.7		20.0			
2-Nitroaniline	0.2389 0.3310	0.3010 0.3457	0.2662 0.3522	0.2631	0.3212	Ave		0.3024			0.0100	13.9		20.0			
1,4-Naphthoquinone	0.3942 0.4564	0.3967 0.4443	0.3879 0.4612	0.3784	0.4390	Ave		0.4198				8.0		20.0			
1,4-Dinitrobenzene	+++++ 0.1926	0.1632 0.1939	0.1375 0.2026	0.1529	0.1811	Ave		0.1748				13.8		20.0			
Dimethyl phthalate	1.4895 1.3195	1.3168 1.3005	1.2021 1.3077	1.2324	1.3217	Ave		1.3113			0.0100	6.5		20.0			
1,3-Dinitrobenzene	0.1880 0.2174	0.2064 0.2155	0.1593 0.2258	0.1801	0.2085	Ave		0.2001				11.2		20.0			
2,6-Dinitrotoluene	+++++ 0.3141	0.2608 0.3033	0.2540 0.3069	0.2687	0.3048	Ave		0.2875			0.2000	8.8		20.0			
Acenaphthylene	1.6419 1.7040	1.6046 1.6639	1.5453 1.7078	1.5419	1.7069	Ave		1.6395			0.9000	4.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1 Analy Batch No.: 314883

SDG No.:

Instrument ID: HP19760 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/07/2022 18:52 Calibration End Date: 11/07/2022 21:25 Calibration ID: 43912

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
3-Nitroaniline	0.2614 0.2993	0.1962 0.3009	0.2451 0.3068	0.2389	0.2816	Ave		0.2663			0.0100	14.4		20.0			
Acenaphthene	1.1529 1.2114	1.2352 1.1857	1.1625 1.2226	1.1063	1.2206	Ave		1.1872			0.9000	3.7		20.0			
2,4-Dinitrophenol	+++++ 0.2107	+++++ 0.2157	0.1478 0.2274	0.1721	0.1987	Ave		0.1954			0.0100	15.3		20.0			
4-Nitrophenol	0.1729 0.2288	0.1860 0.2219	0.1833 0.2244	0.1877	0.2237	Ave		0.2036			0.0100	11.3		20.0			
Pentachlorobenzene	0.6657 0.6567	0.6453 0.6342	0.6507 0.6467	0.6136	0.6543	Ave		0.6459				2.5		20.0			
2,4-Dinitrotoluene	0.3390 0.4175	0.3191 0.4119	0.3113 0.4140	0.3414	0.3978	Ave		0.3690			0.2000	12.3		20.0			
Dibenzofuran	1.8625 1.7540	1.7838 1.6818	1.6958 1.7172	1.5753	1.7297	Ave		1.7250			0.8000	4.8		20.0			
1-Naphthylamine	0.9997 1.1275	0.8897 1.0893	0.9227 1.1434	0.9941	1.1112	Ave		1.0347				9.4		20.0			
2,3,4,6-Tetrachlorophenol	0.3671 0.4472	0.3774 0.4472	0.4060 0.4573	0.3978	0.4482	Ave		0.4185			0.0100	8.5		20.0			
2-Naphthylamine	1.0998 1.2389	1.1033 1.1850	1.0518 1.2292	1.0348	1.1944	Ave		1.1421				7.0		20.0			
Diethyl phthalate	1.3957 1.3042	1.1880 1.2739	1.2146 1.3028	1.1675	1.2909	Ave		1.2672			0.0100	5.9		20.0			
Thionazin	0.2573 0.2237	0.2056 0.2227	0.1864 0.2297	0.1878	0.2169	Ave		0.2163				10.7		20.0			
Fluorene	1.3410 1.3995	1.4530 1.3751	1.2812 1.4109	1.2851	1.4109	Ave		1.3696			0.9000	4.5		20.0			
4-Chlorophenyl-phenyl ether	0.6811 0.7860	0.7665 0.7649	0.7619 0.7821	0.7262	0.7685	Ave		0.7546			0.4000	4.6		20.0			
5-Nitro-o-toluidine	0.3380 0.3744	0.2708 0.3568	0.2829 0.3780	0.3088	0.3599	Ave		0.3337				12.4		20.0			
4-Nitroaniline	0.2289 0.3299	0.2489 0.3256	0.2612 0.3380	0.2712	0.3190	Ave		0.2903			0.0100	14.6		20.0			
4,6-Dinitro-2-methylphenol	+++++ 0.1399	+++++ 0.1411	0.1058 0.1424	0.1076	0.1344	Ave		0.1285			0.0100	13.3		20.0			
N-Nitrosodiphenylamine	0.5741 0.5809	0.5197 0.5787	0.4977 0.5687	0.5053	0.5693	Ave		0.5493			0.0100	6.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1 Analy Batch No.: 314883

SDG No.:

Instrument ID: HP19760 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/07/2022 18:52 Calibration End Date: 11/07/2022 21:25 Calibration ID: 43912

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,2-Diphenylhydrazine	0.8552 0.8592	0.8468 0.8463	0.7296 0.8356	0.7457	0.8659	Ave		0.8230				6.5		20.0			
Sulfotepp	0.1442 0.1276	0.1100 0.1258	0.1106 0.1259	0.1049	0.1289	Ave		0.1222				10.6		20.0			
1,3,5-Trinitrobenzene	+++++ 0.0788	+++++ 0.0835	0.0474 0.0861	0.0584	0.0735	Lin2	-0.048	0.0821							0.9920		0.9900
cis-Diallate	0.4051 0.3298	0.3675 0.3286	0.2880 0.3330	0.2901	0.3434	Ave		0.3357				11.4		20.0			
Phorate	0.4684 0.5221	0.4029 0.5134	0.3988 0.5246	0.4199	0.5116	Ave		0.4702				11.8		20.0			
Phenacetin	+++++ 0.3304	0.2551 0.3327	0.2369 0.3338	0.2602	0.3178	Ave		0.2953				14.4		20.0			
4-Bromophenyl-phenylether	0.2288 0.2423	0.2664 0.2445	0.2278 0.2403	0.2205	0.2533	Ave		0.2405			0.1000	6.2		20.0			
trans-Diallate	+++++ 0.3415	+++++ 0.3296	0.3834 0.3327	0.3031	0.3479	Ave		0.3397				7.8		20.0			
Hexachlorobenzene	0.3003 0.2687	0.2992 0.2654	0.2707 0.2607	0.2395	0.2792	Ave		0.2730			0.1000	7.4		20.0			
Dimethoate	+++++ 0.2965	+++++ 0.3000	0.2230 0.2953	0.2327	0.2865	Ave		0.2723				12.8		20.0			
Atrazine	 0.2178	0.2061 0.2153	0.1871 0.2127	0.2005	0.2203	Ave		0.2085			0.0100	5.6		20.0			
Pentachlorophenol	0.1373 0.1681	0.1433 0.1724	0.1291 0.1697	0.1385	0.1671	Ave		0.1532			0.0500	11.6		20.0			
4-Aminobiphenyl	0.7891 0.8021	0.7029 0.8102	0.6406 0.8100	0.6727	0.8001	Ave		0.7535				9.3		20.0			
Pentachloronitrobenzene	0.1258 0.1214	0.0987 0.1239	0.1036 0.1207	0.1059	0.1217	Ave		0.1152				9.2		20.0			
Pronamide	0.2196 0.3123	0.2753 0.3184	0.2311 0.3144	0.2520	0.3015	Ave		0.2781				14.2		20.0			
Dinoseb	+++++ 0.1918	+++++ 0.2073	0.1174 0.2126	0.1404	0.1843	Lin2	-0.118	0.2025							0.9910		0.9900
Disulfoton	+++++ 0.4989	+++++ 0.4970	0.4325 0.5019	0.4245	0.4948	Ave		0.4749				7.6		20.0			
Phenanthrene	1.1480 1.0742	1.1188 1.0604	1.0332 1.0360	0.9522	1.0834	Ave		1.0633			0.7000	5.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1 Analy Batch No.: 314883

SDG No.:

Instrument ID: HP19760 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/07/2022 18:52 Calibration End Date: 11/07/2022 21:25 Calibration ID: 43912

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Anthracene	0.9576 1.0747	1.1232 1.0757	0.9749 1.0565	0.9140	1.0823	Ave		1.0324			0.7000	7.1		20.0			
Carbazole	0.8820 0.9423	0.8126 0.9435	0.7918 0.9262	0.7990	0.9428	Ave		0.8800			0.0100	7.8		20.0			
Methyl parathion	+++++ 0.2115	+++++ 0.2230	0.1253 0.2270	0.1530	0.1956	Lin2	-0.129	0.2185							0.9920		0.9900
Di-n-butyl phthalate	0.9043 1.0418	0.8051 1.0480	0.8345 1.0453	0.8472	1.0232	Ave		0.9437			0.0100	11.3		20.0			
Parathion	+++++ 0.1273	+++++ 0.1344	0.0885 0.1389	0.0910	0.1196	Ave		0.1166				18.7		20.0			
4-Nitroquinoline-1-oxide	+++++ 0.0809	+++++ 0.0920	+++++ 0.0982	0.0517	0.0698	Lin2	-0.192	0.1001							0.9960		0.9900
Octachlorostyrene	0.1141 0.1033	0.1176 0.1018	0.0945 0.1022	0.0939	0.1051	Ave		0.1041				8.0		20.0			
Isodrin	+++++ 0.1326	0.1790 0.1319	0.1392 0.1319	0.1182	0.1366	Ave		0.1385				13.8		20.0			
Fluoranthene	1.1380 1.2087	1.1405 1.2016	1.0674 1.1819	1.0345	1.2084	Ave		1.1476			0.6000	5.8		20.0			
Benzidine	+++++ 0.7287	+++++ 0.7315	0.5120 0.6884	0.5665	0.7017	Ave		0.6548				14.1		20.0			
Pyrene	1.3415 1.2227	1.2721 1.2223	1.1631 1.1698	1.0943	1.2250	Ave		1.2139			0.6000	6.1		20.0			
p-Dimethylamino azobenzene	+++++ 0.2125	+++++ 0.2251	0.1259 0.2258	0.1449	0.1936	Lin1	-0.180	0.2289							0.9970		0.9900
Chlorobenzilate	+++++ 0.3075	+++++ 0.3096	0.2057 0.3092	0.2331	0.2922	Ave		0.2762				16.4		20.0			
3,3'-Dimethylbenzidine	+++++ 0.6832	+++++ 0.6743	+++++ 0.6650	0.5282	0.6413	Ave		0.6384				10.0		20.0			
Butylbenzylphthalate	+++++ 0.4342	+++++ 0.4484	0.3025 0.4359	0.3364	0.4166	Ave		0.3957			0.0100	15.4		20.0			
2-Acetylaminofluorene	+++++ 0.3453	+++++ 0.3757	+++++ 0.3815	0.2289	0.3055	Ave		0.3274				19.2		20.0			
3,3'-Dichlorobenzidine	+++++ 0.4502	+++++ 0.4673	0.3094 0.4531	0.3433	0.4272	Ave		0.4084			0.0100	16.1		20.0			
4,4'-Methylene bis(2-chloroaniline)	+++++ 0.2391	+++++ 0.2453	0.1728 0.2427	0.1848	0.2316	Ave		0.2194				14.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1 Analy Batch No.: 314883

SDG No.:

Instrument ID: HP19760 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/07/2022 18:52 Calibration End Date: 11/07/2022 21:25 Calibration ID: 43912

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Benzo[a]anthracene	0.9545 1.1988	1.0309 1.2171	0.9853 1.1820	1.0046	1.1800	Ave		1.0942			0.8000	10.0		20.0			
Chrysene	1.1798 1.1817	1.0724 1.2055	1.0651 1.1458	1.0300	1.1745	Ave		1.1319			0.7000	5.8		20.0			
Bis(2-ethylhexyl) phthalate	0.4430 0.5670	0.3671 +++++	0.3499 +++++	0.4086	0.5376	Ave		0.4455			0.0100	20.0		20.0			
6-Methylchrysene	0.7741 0.7929	0.7161 0.8068	0.6176 0.7986	0.6550	0.7712	Ave		0.7415				9.6		20.0			
Di-n-octyl phthalate	0.7878 1.0149	0.7278 +++++	0.6113 +++++	0.6440	0.9055	Ave		0.7819			0.0100	19.9		20.0			
7,12-Dimethylbenz(a)anthracene	0.4363 0.6017	0.4632 0.6163	0.4461 0.6328	0.4627	0.5830	Ave		0.5303				16.1		20.0			
Benzo[b]fluoranthene	1.2889 1.4255	1.2386 1.4111	1.1604 1.4135	1.1724	1.4172	Ave		1.3159			0.7000	8.7		20.0			
Benzo[k]fluoranthene	1.2598 1.4005	1.1078 1.4572	1.2799 1.4345	1.2959	1.4247	Ave		1.3325			0.7000	8.9		20.0			
Benzo[a]pyrene	1.0288 1.1409	0.9066 1.1665	0.8819 1.1703	0.9449	1.0883	Ave		1.0410			0.7000	11.3		20.0			
3-Methylcholanthrene	0.6173 0.6203	0.5274 0.6288	0.4344 0.6469	0.4580	0.5823	Ave		0.5644				14.5		20.0			
Dibenz[a,h]acridine	0.8115 0.8969	0.7385 0.9142	0.6334 0.9482	0.6746	0.8600	Ave		0.8097				14.4		20.0			
Dibenz[a,j]acridine	0.7733 1.0466	0.7712 1.0878	0.7914 1.0755	0.8365	1.0337	Ave		0.9270				15.7		20.0			
Indeno[1,2,3-cd]pyrene	0.8368 1.0071	0.8108 1.0558	0.7889 1.0290	0.8342	0.9780	Ave		0.9176			0.5000	12.0		20.0			
Dibenz(a,h)anthracene	1.0196 1.1646	0.9860 1.1899	0.9570 1.2183	0.9763	1.1484	Ave		1.0825			0.4000	10.0		20.0			
Benzo[g,h,i]perylene	1.1301 1.1884	1.0616 1.1946	1.0466 1.1985	1.0105	1.1883	Ave		1.1273			0.5000	6.8		20.0			
2-Fluorophenol (Surr)	1.3521 1.4134	1.4215 1.4038	1.3057 1.4019	1.2338	1.4228	Ave		1.3694				5.0		20.0			
Phenol-d5 (Surr)	2.0436 1.9149	1.8049 1.9287	1.7061 1.9048	1.6728	1.9669	Ave		1.8678				6.9		20.0			
Nitrobenzene-d5 (Surr)	0.5359 0.5349	0.5110 0.5472	0.4945 0.5294	0.4466	0.5384	Ave		0.5172				6.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1 Analy Batch No.: 314883

SDG No.:

Instrument ID: HP19760 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/07/2022 18:52 Calibration End Date: 11/07/2022 21:25 Calibration ID: 43912

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
2-Fluorobiphenyl (Surr)	1.5934 1.4645	1.5506 1.4042	1.4551 1.4217	1.3642	1.4813	Ave		1.4669				5.1		20.0			
2,4,6-Tribromophenol (Surr)	0.2228 0.2536	0.2291 0.2576	0.2199 0.2648	0.2228	0.2503	Ave		0.2401				7.6		20.0			
p-Terphenyl-d14 (Surr)	0.9050 0.9527	0.9393 0.9462	0.8821 0.9024	0.8405	0.9614	Ave		0.9162				4.5		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1 Analy Batch No.: 314883

SDG No.:

Instrument ID: HP19760 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/07/2022 18:52 Calibration End Date: 11/07/2022 21:25 Calibration ID: 43912

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-314883/3	DK0702.D
Level 2	IC 410-314883/4	DK0703.D
Level 3	IC 410-314883/9	DK0708.D
Level 4	IC 410-314883/8	DK0707.D
Level 5	IC 410-314883/7	DK0706.D
Level 6	ICIS 410-314883/2	DK0701a.D
Level 7	IC 410-314883/6	DK0705.D
Level 8	IC 410-314883/5	DK0704.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,4-Dioxane	DCBd 4	Ave	+++++	+++++	19208	52979	116279	+++++	+++++	1.25	3.75	7.50
			198388	310825	454635			12.5	20.0	30.0		
N-Nitrosodimethylamine	DCBd 4	Ave	3448	8357	32764	84839	188782	0.125	0.250	1.25	3.75	7.50
			326974	507394	739971			12.5	20.0	30.0		
Pyridine	DCBd 4	Ave	11920	20532	96640	266973	593835	0.250	0.500	2.50	7.50	15.0
			1041956	1597968	2354725			25.0	40.0	60.0		
N,N-dimethylformamide	DCBd 4	Ave	+++++	+++++	34919	79312	194773	+++++	+++++	1.25	3.75	7.50
			313852	532852	813545			12.5	20.0	30.0		
2-Picoline	DCBd 4	Ave	4919	10354	50850	135562	301353	0.125	0.250	1.25	3.75	7.50
			534264	805272	1206631			12.5	20.0	30.0		
N-Nitrosomethylethylamine	DCBd 4	Ave	+++++	+++++	25993	59736	132478	+++++	+++++	1.25	3.75	7.50
			235170	353437	522562			12.5	20.0	30.0		
Methyl methanesulfonate	DCBd 4	Ave	2974	5279	29536	83107	181379	0.125	0.250	1.25	3.75	7.50
			326490	492398	739509			12.5	20.0	30.0		
N-Nitrosodiethylamine	DCBd 4	Ave	2043	3935	18613	53663	120068	0.125	0.250	1.25	3.75	7.50
			220928	327624	486736			12.5	20.0	30.0		
Ethyl methanesulfonate	DCBd 4	Ave	2115	4514	20664	61024	131986	0.125	0.250	1.25	3.75	7.50

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1 Analy Batch No.: 314883

SDG No.:

Instrument ID: HP19760 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/07/2022 18:52 Calibration End Date: 11/07/2022 21:25 Calibration ID: 43912

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			238110	349606	533227			12.5	20.0	30.0		
Benzaldehyde	DCBd 4	Ave	434849	9651 626387	44786 885548	125752	256732	12.5	0.250 20.0	1.25 30.0	3.75	7.50
Phenol	DCBd 4	Ave	596839	5932 10163 918948	53123 1348745	153484	339287	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Aniline	DCBd 4	Ave	716568	6671 11319 1110128	65172 1616273	183583	407863	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Bis(2-chloroethyl)ether	DCBd 4	Ave	493384	3736 9409 742708	44945 1094512	123451	273374	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2-Chlorophenol	DCBd 4	Ave	403791	3694 6302 614961	33583 887505	100194	224315	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
1,3-Dichlorobenzene	DCBd 4	Ave	459200	4785 7665 695230	44708 1022844	115485	260301	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
1,4-Dichlorobenzene	DCBd 4	Ave	465769	4592 8472 703883	43783 1032815	119862	266291	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Benzyl alcohol	DCBd 4	Ave	280959	3096 4957 438990	25438 633309	70861	157143	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
1,2-Dichlorobenzene	DCBd 4	Ave	437809	3959 8565 666345	41267 970720	112499	250028	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2-Methylphenol	DCBd 4	Ave	393585	3818 7133 596941	33778 888365	96789	222708	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2,2'-oxybis[1-chloropropane]	DCBd 4	Ave	529115	5881 13109 789285	49900 1159064	131114	298430	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
N-Nitrosopyrrolidine	DCBd 4	Ave	1933	3679	20643	57170	129226	0.125	0.250	1.25	3.75	7.50

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1 Analy Batch No.: 314883

SDG No.:

Instrument ID: HP19760 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/07/2022 18:52 Calibration End Date: 11/07/2022 21:25 Calibration ID: 43912

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			231675	352797	526877			12.5	20.0	30.0		
4-Methylphenol (and/or 3-Methylphenol)	DCBd 4	Ave	4575 408099	8178 629891	35921 943387	100946	231997	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
N-Nitrosodi-n-propylamine	DCBd 4	Ave	3655 394598	7011 610700	36004 914772	98234	222497	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Acetophenone	DCBd 4	Ave	6660 653264	11758 987933	60970 1472540	166998	378833	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
N-Nitrosomorpholine	DCBd 4	Ave	3377 277943	6060 424509	22353 627303	70208	156324	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
o-Toluidine	DCBd 4	Ave	6899 714537	12753 1104777	62683 1620996	179758	409294	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Hexachloroethane	DCBd 4	Ave	2092 197315	3926 296181	17662 431529	51304	109962	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Nitrobenzene	NPT	Ave	6929 568413	10401 866805	48824 1260544	142898	323648	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
N-Nitrosopiperidine	NPT	Ave	2144 212628	3534 321815	19202 476522	52610	120156	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Isophorone	NPT	Ave	9508 971083	15128 1493554	87697 2192455	243279	545922	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2-Nitrophenol	NPT	Ave	1506 203154	3594 312704	15218 460794	45064	110687	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2,4-Dimethylphenol	NPT	Ave	4473 456138	7334 713645	39555 1049421	118039	257198	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
o,o',o''-Triethylphosphorothioate	NPT	Ave	2627 240007	3771 383414	23232 554139	62743	141152	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Bis(2-chloroethoxy)methane	NPT	Ave	6026 577314	11515 876750	50096 1297245	147684	329486	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2,4-Dichlorophenol	NPT	Ave	3681 348890	5037 547956	29396 796013	83685	195226	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1 Analy Batch No.: 314883

SDG No.:

Instrument ID: HP19760 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/07/2022 18:52 Calibration End Date: 11/07/2022 21:25 Calibration ID: 43912

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,2,4-Trichlorobenzene	NPT	Ave	+++++ 414173	8283 634983	40075 924779	109373	239607	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Naphthalene	NPT	Ave	10723 1148521	21990 1755719	111084 2552170	297002	660202	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
a-Terpineol	NPT	Ave	3483 380791	6776 590083	33891 857942	92905	212296	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
4-Chloroaniline	NPT	Ave	3339 479119	8003 745114	41769 1085482	119961	273987	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2,6-Dichlorophenol	NPT	Ave	3286 352721	5424 545195	28320 801855	85958	199582	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Hexachloropropene	NPT	Ave	3352 340253	6293 520583	29705 782482	83833	192270	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Hexachlorobutadiene	NPT	Ave	3043 285074	4936 437791	27571 645566	72829	166570	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Quinoline	NPT	Ave	6532 723176	13306 1106817	62723 1635287	179823	404616	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Caprolactam	NPT	Ave	 105542	2071 175874	7941 264670	28577	59933	 12.5	0.250 20.0	1.25 30.0	3.75	7.50
N-Nitrosodi-n-butylamine	NPT	Ave	4408 428595	8962 687012	33463 1028608	107909	239147	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
1,4-phenylenediamine	NPT	Ave	4010 425283	5790 651544	34354 968402	100341	232554	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
4-Chloro-3-methylphenol	NPT	Ave	3383 376850	6485 596258	32627 885476	90742	216462	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Safrole, Total	NPT	Ave	2880 319006	5639 495646	28673 748828	80966	176806	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2-Methylnaphthalene	NPT	Ave	7021 705948	13003 1109893	67497 1632434	178247	416241	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
1-Methylnaphthalene	NPT	Ave	6545 721435	13811 1133572	67751 1661528	190848	414545	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Hexachlorocyclopentadiene	ANT	Ave	3334 370469	6975 581643	35171 850010	94389	212746	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
1,2,4,5-Tetrachlorobenzene	ANT	Ave	5575 493081	8720 779473	46999 1140113	127240	286032	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Isosafrole Peak 1	ANT	Ave	+++++ 60292	765 90141	5029 137530	14906	33163	+++++ 2.00	0.0400 3.20	0.200 4.80	0.600	1.20

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1 Analy Batch No.: 314883

SDG No.:

Instrument ID: HP19760 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/07/2022 18:52 Calibration End Date: 11/07/2022 21:25 Calibration ID: 43912

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
2,4,6-Trichlorophenol	ANT	Ave	2424 285710	4992 452769	24732 663907	69413	160217	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2,4,5-Trichlorophenol	ANT	Ave	3215 315680	4145 500759	25064 739866	77343	178900	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Isosafrole Peak 2	ANT	Ave	3475 337298	6323 514201	28939 770952	84644	189911	0.105 10.5	0.210 16.8	1.05 25.2	3.15	6.30
1,1'-Biphenyl	ANT	Ave	9670 1000084	19931 1554512	94595 2266320	258957	579412	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2-Chloronaphthalene	ANT	Ave	8437 802917	12973 1306081	71007 1855663	197274	421883	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
1-Chloronaphthalene	ANT	Ave	6869 742643	16390 1084203	71685 1680476	200600	462502	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Diphenyl ether	ANT	Ave	5677 565140	10745 889687	54845 1296929	146455	330551	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2-Nitroaniline	ANT	Ave	1454 215287	3538 362949	16966 530505	48249	120303	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
1,4-Naphthoquinone	ANT	Ave	2399 296853	4664 466408	24721 694670	69401	164411	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
1,4-Dinitrobenzene	ANT	Ave	+++++ 125274	1919 203548	8760 305116	28045	67841	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Dimethyl phthalate	ANT	Ave	9065 858275	15480 1365281	76610 1969798	226037	494990	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
1,3-Dinitrobenzene	ANT	Ave	1144 141380	2426 226252	10151 340153	33027	78091	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2,6-Dinitrotoluene	ANT	Ave	+++++ 204322	3066 318388	16186 462374	49280	114165	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Acenaphthylene	ANT	Ave	9992 1108348	18863 1746799	98480 2572530	282806	639264	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
3-Nitroaniline	ANT	Ave	1591 194673	2306 315912	15622 462143	43813	105463	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Acenaphthene	ANT	Ave	7016 787943	14521 1244770	74087 1841635	202919	457154	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2,4-Dinitrophenol	ANT	Ave	+++++ 274079	+++++ 452838	37675 685012	94681	173645	+++++ 25.0	+++++ 40.0	5.00 60.0	11.3	17.5
4-Nitrophenol	ANT	Ave	6315 297693	13121 465943	35046 676148	68850	167525	0.750 25.0	1.50 40.0	3.75 60.0	7.50	15.0

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1 Analy Batch No.: 314883

SDG No.:

Instrument ID: HP19760 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/07/2022 18:52 Calibration End Date: 11/07/2022 21:25 Calibration ID: 43912

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Pentachlorobenzene	ANT	Ave	4051 427120	7586 665814	41470 974178	112551	245064	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2,4-Dinitrotoluene	ANT	Ave	2063 271585	3751 432421	19840 623645	62617	148974	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Dibenzofuran	ANT	Ave	11335 1140893	20970 1765557	108069 2586713	288932	647795	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
1-Naphthylamine	ANT	Ave	6084 733354	10459 1143536	58804 1722370	182339	416179	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2,3,4,6-Tetrachlorophenol	ANT	Ave	2234 290898	4437 469525	25871 688870	72958	167848	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2-Naphthylamine	ANT	Ave	6693 805823	12970 1243990	67033 1851683	189789	447318	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Diethyl phthalate	ANT	Ave	8494 848279	13966 1337367	77408 1962518	214138	483488	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Thionazin	ANT	Ave	1566 145529	2417 233777	11878 345938	34443	81224	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Fluorene	ANT	Ave	8161 910292	17081 1443587	81649 2125375	235714	528410	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
4-Chlorophenyl-phenyl ether	ANT	Ave	4145 511267	9011 803016	48554 1178081	133192	287804	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
5-Nitro-o-toluidine	ANT	Ave	2057 243535	3183 374554	18026 569411	56645	134807	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
4-Nitroaniline	ANT	Ave	1393 214570	2926 341795	16644 509215	49733	119486	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
4,6-Dinitro-2-methylphenol	PHN	Ave	+++++ 366353	+++++ 584161	41521 878051	81689	200127	+++++ 25.0	+++++ 40.0	3.75 60.0	7.50	15.0
N-Nitrosodiphenylamine	PHN	Ave	5986 646535	10396 1018094	55355 1490413	163019	360227	0.106 10.6	0.213 17.0	1.06 25.5	3.19	6.38
1,2-Diphenylhydrazine	PHN	Ave	10490 1125060	19929 1751729	95470 2576411	283004	644571	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Sulfotepp	PHN	Ave	1769 167066	2588 260423	14477 388276	39806	95916	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
1,3,5-Trinitrobenzene	PHN	Lin2	+++++ 103162	+++++ 172741	6206 265356	22154	54695	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
cis-Diallate	PHN	Ave	3677 319579	6401 503363	27883 759795	81471	189142	0.0925 9.25	0.185 14.8	0.925 22.2	2.78	5.55

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1 Analy Batch No.: 314883

SDG No.:

Instrument ID: HP19760 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/07/2022 18:52 Calibration End Date: 11/07/2022 21:25 Calibration ID: 43912

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Phorate	PHN	Ave	5746 683635	9482 1062592	52185 1617638	159372	380788	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Phenacetin	PHN	Ave	+++++ 432688	6004 688605	31003 1029254	98769	236576	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
4-Bromophenyl-phenylether	PHN	Ave	2806 317265	6270 505999	29806 740908	83679	188525	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
trans-Diallate	PHN	Ave	+++++ 116268	+++++ 177356	13042 266707	29912	67330	+++++ 3.25	+++++ 5.20	0.325 7.80	0.975	1.95
Hexachlorobenzene	PHN	Ave	3684 351780	7042 549329	35424 803786	90900	207799	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Dimethoate	PHN	Ave	+++++ 388252	+++++ 621015	29180 910454	88326	213248	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
Atrazine	PHN	Ave	 285136	4851 445586	24487 655787	76085	163997	 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Pentachlorophenol	PHN	Ave	8420 440197	16858 713571	33789 1046783	105132	248760	0.625 25.0	1.25 40.0	2.50 60.0	7.50	15.0
4-Aminobiphenyl	PHN	Ave	9679 1050266	16544 1677106	83819 2497434	255301	595560	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Pentachloronitrobenzene	PHN	Ave	1543 158934	2323 256368	13550 372198	40194	90585	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Pronamide	PHN	Ave	2694 408935	6480 658986	30238 969488	95633	224392	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Dinoseb	PHN	Lin2	+++++ 251186	+++++ 429160	15364 655631	53285	137221	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
Disulfoton	PHN	Ave	+++++ 653262	+++++ 1028837	56595 1547537	161106	368300	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
Phenanthrene	PHN	Ave	14082 1406527	26331 2194952	135193 3194401	361400	806445	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Anthracene	PHN	Ave	11747 1407256	26434 2226687	127558 3257582	346907	805641	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Carbazole	PHN	Ave	10819 1233795	19124 1952916	103602 2855832	303248	701800	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Methyl parathion	PHN	Lin2	+++++ 276938	+++++ 461568	16390 700077	58083	145614	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
Di-n-butyl phthalate	PHN	Ave	11093 1364211	18949 2169273	109198 3223023	321530	761612	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1 Analy Batch No.: 314883

SDG No.:

Instrument ID: HP19760 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/07/2022 18:52 Calibration End Date: 11/07/2022 21:25 Calibration ID: 43912

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Parathion	PHN	Ave	+++++ 166653	+++++ 278271	11577 428294	34532	88995	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
4-Nitroquinoline-1-oxide	PHN	Lin2	+++++ 105871	+++++ 190429	+++++ 302694	19610	51941	+++++ 12.5	+++++ 20.0	+++++ 30.0	3.75	7.50
Octachlorostyrene	PHN	Ave	1400 135225	2767 210704	12367 315004	35623	78238	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Isodrin	PHN	Ave	+++++ 173665	4213 273074	18219 406763	44870	101682	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Fluoranthene	PHN	Ave	13959 1582689	26843 2487227	139664 3644159	392625	899529	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Benzidine	PYR10	Ave	+++++ 3018021	+++++ 4740314	210358 6788558	672613	1659158	+++++ 37.5	+++++ 60.0	3.75 90.0	11.3	22.5
Pyrene	PYR10	Ave	16588 1688073	31092 2640244	159295 3845416	433084	965556	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
p-Dimethylamino azobenzene	PYR10	Lin1	+++++ 293418	+++++ 486134	17241 742419	57361	152584	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
Chlorobenzilate	PYR10	Ave	+++++ 424584	+++++ 668825	28174 1016329	92267	230300	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
3,3'-Dimethylbenzidine	PYR10	Ave	+++++ 943179	+++++ 1456586	+++++ 2186144	209034	505466	+++++ 12.5	+++++ 20.0	+++++ 30.0	3.75	7.50
Butylbenzylphthalate	PYR10	Ave	+++++ 599459	+++++ 968571	41434 1433063	133120	328343	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
2-Acetylaminofluorene	PYR10	Ave	+++++ 476757	+++++ 811441	+++++ 1253965	90578	240797	+++++ 12.5	+++++ 20.0	+++++ 30.0	3.75	7.50
3,3'-Dichlorobenzidine	PYR10	Ave	+++++ 621503	+++++ 1009434	42381 1489485	135876	336691	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
4,4'-Methylene bis(2-chloroaniline)	PYR10	Ave	+++++	+++++	23664	73135	182560	+++++	+++++	1.25	3.75	7.50

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1 Analy Batch No.: 314883

SDG No.:

Instrument ID: HP19760 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/07/2022 18:52 Calibration End Date: 11/07/2022 21:25 Calibration ID: 43912

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			330153	529962	797774			12.5	20.0	30.0		
Benzo[a]anthracene	PYR10	Ave	11802 1655156	25197 2629112	134940 3885572	397601	930058	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Chrysene	PYR10	Ave	14588 1631515	26210 2603941	145879 3766572	407618	925780	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Bis(2-ethylhexyl) phthalate	PYR10	Ave	5478 782760	8972 +++++	47928 +++++	161714	423765	0.125 12.5	0.250 +++++	1.25 +++++	3.75	7.50
6-Methylchrysene	PYR10	Ave	9571 1094642	17502 1742802	84586 2625170	259222	607905	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Di-n-octyl phthalate	PRY	Ave	7641 1165197	13904 +++++	65044 +++++	203919	576412	0.125 12.5	0.250 +++++	1.25 +++++	3.75	7.50
7,12-Dimethylbenz(a)anthracene	PRY	Ave	4231 690864	8848 1108720	47468 1693081	146500	371101	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Benzo[b]fluoranthene	PRY	Ave	12500 1636681	23662 2538555	123464 3781472	371239	902134	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Benzo[k]fluoranthene	PRY	Ave	12218 1607890	21163 2621406	136175 3837847	410331	906875	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Benzo[a]pyrene	PRY	Ave	9978 1309908	17320 2098606	93830 3131042	299191	692743	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
3-Methylcholanthrene	PRY	Ave	5987 712172	10076 1131281	46225 1730616	145020	370670	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Dibenz[a,h]acridine	PRY	Ave	7870 1029704	14108 1644666	67398 2536878	213613	547456	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Dibenz[a,j]acridine	PRY	Ave	7500 1201588	14733 1956855	84202 2877464	264861	658017	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Indeno[1,2,3-cd]pyrene	PRY	Ave	8116 1156215	15490 1899322	83941 2752811	264140	622552	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Dibenz(a,h)anthracene	PRY	Ave	9889 1337063	18836 2140708	101822 3259473	309123	731044	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Benzo[g,h,i]perylene	PRY	Ave	10960 1364413	20280 2149117	111359 3206481	319970	756415	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1 Analy Batch No.: 314883

SDG No.:

Instrument ID: HP19760 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/07/2022 18:52 Calibration End Date: 11/07/2022 21:25 Calibration ID: 43912

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
2-Fluorophenol (Surr)	DCBd 4	Ave	7845 873432	16037 1313121	79137 1946907	215227	486378	0.250 25.0	0.500 40.0	2.50 60.0	7.50	15.0
Phenol-d5 (Surr)	DCBd 4	Ave	11857 1183321	20362 1804073	103400 2645298	291811	672355	0.250 25.0	0.500 40.0	2.50 60.0	7.50	15.0
Nitrobenzene-d5 (Surr)	NPT	Ave	10595 1129022	19765 1744689	105981 2552276	287832	644048	0.250 25.0	0.500 40.0	2.50 60.0	7.50	15.0
2-Fluorobiphenyl (Surr)	ANT	Ave	19394 1905087	36457 2948384	185466 4283210	500424	1109574	0.250 25.0	0.500 40.0	2.50 60.0	7.50	15.0
2,4,6-Tribromophenol (Surr)	ANT	Ave	2712 329954	5387 540820	28026 797732	81712	187492	0.250 25.0	0.500 40.0	2.50 60.0	7.50	15.0
p-Terphenyl-d14 (Surr)	PYR10	Ave	22380 2630683	45915 4087823	241630 5933075	665243	1515548	0.250 25.0	0.500 40.0	2.50 60.0	7.50	15.0

Curve Type Legend
Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1 Analy Batch No.: 314883

SDG No.:

Instrument ID: HP19760 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/07/2022 18:52 Calibration End Date: 11/07/2022 21:25 Calibration ID: 43912

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-314883/3	DK0702.D
Level 2	IC 410-314883/4	DK0703.D
Level 3	IC 410-314883/9	DK0708.D
Level 4	IC 410-314883/8	DK0707.D
Level 5	IC 410-314883/7	DK0706.D
Level 6	ICIS 410-314883/2	DK0701a.D
Level 7	IC 410-314883/6	DK0705.D
Level 8	IC 410-314883/5	DK0704.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
1,3,5-Trinitrobenzene	+++++ 4.5	+++++ 6.7	4.3	-13.4	-2.8	0.6	30	30	50	30	30	30
Dinoseb	+++++ 5.3	+++++ 6.9	4.7	-15.1	-1.2	-0.6	30	30	50	30	30	30
Methyl parathion	+++++ 5.0	+++++ 5.9	4.5	-14.2	-2.6	1.5	30	30	50	30	30	30
4-Nitroquinoline-1-oxide	+++++ 1.5	+++++ 4.5	+++++	2.7	-4.7	-3.9	30	30		50	30	30
p-Dimethylamino azobenzene	+++++ 2.3	+++++ 1.3	17.9	-15.7	-4.9	-0.9	30	30	50	30	30	30

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0701a.D
Lims ID: ICIS L6
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 07-Nov-2022 18:52:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICIS L6
Misc. Info.: 410-0070576-002
Operator ID: kel10217 Instrument ID: HP19760
Sublist: chrom-MSSemi_HP19760*sub24

Method: \\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\MSSemi_HP19760.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 08-Nov-2022 11:34:11 Calib Date: 08-Nov-2022 01:34:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0720.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1681

First Level Reviewer: W6XI Date: 08-Nov-2022 11:24:21

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
2 1,4-Dioxane	88	1.896	1.896	0.000	93	198388	12.5	12.4	
3 N-Nitrosodimethylamine	74	2.123	2.123	0.000	94	326974	12.5	11.7	
4 Pyridine	79	2.164	2.164	0.000	96	1041956	25.0	24.4	
5 Dimethylformamide	73	2.455	2.455	0.000	94	313852	12.5	11.7	
6 2-Picoline	93	2.764	2.764	0.000	90	534264	12.5	12.6	
7 N-Nitrosomethylethylamine	88	2.846	2.846	0.000	93	235170	12.5	12.4	
8 Methyl methanesulfonate	80	3.114	3.114	0.000	86	326490	12.5	13.0	
$ 10 2-Fluorophenol	112	3.266	3.266	0.000	93	873432	25.0	25.8	
11 N-Nitrosodiethylamine	102	3.499	3.499	0.000	96	220928	12.5	13.1	
12 Ethyl methanesulfonate	109	3.773	3.773	0.000	97	238110	12.5	12.9	
14 Benzaldehyde	77	4.111	4.111	0.000	94	434849	12.5	12.1	
$ 17 Phenol-d5	99	4.140	4.140	0.000	95	1183321	25.0	25.6	
18 Phenol	94	4.152	4.152	0.000	94	596839	12.5	12.7	
16 Aniline	93	4.204	4.204	0.000	95	716568	12.5	12.9	
19 Bis(2-chloroethyl)ether	93	4.262	4.262	0.000	96	493384	12.5	13.1	
20 2-Chlorophenol	128	4.315	4.315	0.000	92	403791	12.5	13.3	
21 1,3-Dichlorobenzene	146	4.466	4.466	0.000	93	459200	12.5	12.6	
* 22 1,4-Dichlorobenzene-d4	152	4.525	4.525	0.000	95	123592	5.00	5.00	
23 1,4-Dichlorobenzene	146	4.536	4.536	0.000	89	465769	12.5	12.6	
25 Benzyl alcohol	108	4.641	4.641	0.000	88	280959	12.5	12.5	
24 1,2-Dichlorobenzene	146	4.682	4.682	0.000	92	437809	12.5	12.6	
27 2-Methylphenol	108	4.740	4.740	0.000	95	393585	12.5	12.8	
28 2,2'-oxybis[1-chloropropane]	45	4.775	4.775	0.000	91	529115	12.5	12.0	
30 N-Nitrosopyrrolidine	100	4.874	4.874	0.000	90	231675	12.5	13.2	
35 4-Methylphenol	108	4.886	4.886	0.000	94	408099	12.5	12.3	
32 N-Nitrosodi-n-propylamine	70	4.898	4.898	0.000	72	394598	12.5	12.7	
31 Acetophenone	105	4.898	4.898	0.000	91	653264	12.5	12.5	
33 N-Nitrosomorpholine	56	4.915	4.915	0.000	91	277943	12.5	12.1	
34 2-Toluidine	106	4.933	4.933	0.000	95	714537	12.5	12.7	
36 Hexachloroethane	117	5.008	5.008	0.000	90	197315	12.5	12.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 37 Nitrobenzene-d5	82	5.043	5.043	0.000	87	1129022	25.0	25.9	
38 Nitrobenzene	77	5.061	5.061	0.000	85	568413	12.5	12.6	
39 N-Nitrosopiperidine	114	5.207	5.207	0.000	83	212628	12.5	13.0	
40 Isophorone	82	5.288	5.288	0.000	96	971083	12.5	13.2	
41 2-Nitrophenol	139	5.364	5.364	0.000	90	203154	12.5	13.9	
42 2,4-Dimethylphenol	107	5.399	5.399	0.000	97	456138	12.5	13.0	
43 o,o',o''-Triethylphosphorothioat	198	5.469	5.469	0.000	84	240007	12.5	12.6	
44 Bis(2-chloroethoxy)methane	93	5.498	5.498	0.000	99	577314	12.5	12.7	
47 2,4-Dichlorophenol	162	5.591	5.591	0.000	96	348890	12.5	13.2	
48 1,2,4-Trichlorobenzene	180	5.679	5.679	0.000	93	414173	12.5	12.6	
* 49 Naphthalene-d8	136	5.731	5.731	0.000	99	422146	5.00	5.00	
50 Naphthalene	128	5.754	5.754	0.000	98	1148521	12.5	12.8	
51 Alpha-Terpineol	59	5.760	5.760	0.000	92	380791	12.5	13.1	
52 4-Chloroaniline	127	5.801	5.801	0.000	93	479119	12.5	13.6	
53 2,6-Dichlorophenol	162	5.807	5.807	0.000	94	352721	12.5	13.4	
54 Hexachloropropene	213	5.836	5.836	0.000	87	340253	12.5	12.9	
55 Hexachlorobutadiene	225	5.871	5.871	0.000	93	285074	12.5	12.6	
56 Quinoline	129	6.069	6.069	0.000	95	723176	12.5	13.1	
57 Caprolactam	113	6.110	6.110	0.000	78	105542	12.5	12.7	
59 N-Nitrosodi-n-butylamine	84	6.122	6.122	0.000	90	428595	12.5	12.6	
58 p-Phenylene diamine	108	6.133	6.133	0.000	94	425283	12.5	13.7	
60 4-Chloro-3-methylphenol	107	6.256	6.256	0.000	92	376850	12.5	13.1	
61 Safrole, Total	162	6.331	6.331	0.000	88	319006	12.5	13.0	
62 2-Methylnaphthalene	142	6.413	6.413	0.000	92	705948	12.5	12.6	
63 1-Methylnaphthalene	142	6.506	6.506	0.000	94	721435	12.5	12.7	
64 Hexachlorocyclopentadiene	237	6.559	6.559	0.000	94	370469	12.5	12.8	
65 1,2,4,5-Tetrachlorobenzene	216	6.570	6.570	0.000	97	493081	12.5	12.4	
66 Isosafrole Peak 1	162	6.605	6.605	0.000	89	60292	2.00	2.22	
68 2,4,6-Trichlorophenol	196	6.675	6.675	0.000	83	285710	12.5	13.2	
69 2,4,5-Trichlorophenol	196	6.705	6.705	0.000	92	315680	12.5	13.4	
$ 70 2-Fluorobiphenyl (Surr)	172	6.763	6.763	0.000	100	1905087	25.0	25.0	
71 Isosafrole Peak 2	162	6.821	6.821	0.000	89	337298	10.5	10.8	
77 1,1'-Biphenyl	154	6.856	6.856	0.000	94	1000084	12.5	12.6	
78 2-Chloronaphthalene	162	6.874	6.874	0.000	95	802917	12.5	13.0	
79 1-Chloronaphthalene	162	6.897	6.897	0.000	99	742643	12.5	12.3	
80 Phenyl ether	170	6.955	6.955	0.000	88	565140	12.5	12.5	
81 2-Nitroaniline	138	6.967	6.967	0.000	75	215287	12.5	13.7	
82 1,4-Naphthoquinone	158	7.043	7.043	0.000	82	296853	12.5	13.6	
83 1,4-Dinitrobenzene	168	7.101	7.101	0.000	84	125274	12.5	13.8	
84 Dimethyl phthalate	163	7.142	7.142	0.000	97	858275	12.5	12.6	
85 1,3-Dinitrobenzene	168	7.165	7.165	0.000	84	141380	12.5	13.6	
86 2,6-Dinitrotoluene	165	7.200	7.200	0.000	91	204322	12.5	13.7	
87 Acenaphthylene	152	7.264	7.264	0.000	99	1108348	12.5	13.0	
88 3-Nitroaniline	138	7.352	7.352	0.000	86	194673	12.5	14.1	
* 89 Acenaphthene-d10	164	7.398	7.398	0.000	96	260175	5.00	5.00	
90 Acenaphthene	153	7.433	7.433	0.000	96	787943	12.5	12.8	
91 2,4-Dinitrophenol	184	7.451	7.451	0.000	84	274079	25.0	27.0	
93 4-Nitrophenol	109	7.503	7.503	0.000	83	297693	25.0	28.1	
92 Pentachlorobenzene	250	7.556	7.556	0.000	98	427120	12.5	12.7	
95 2,4-Dinitrotoluene	165	7.579	7.579	0.000	90	271585	12.5	14.1	
94 Dibenzofuran	168	7.596	7.596	0.000	97	1140893	12.5	12.7	
96 1-Naphthylamine	143	7.666	7.666	0.000	98	733354	12.5	13.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
97 2,3,4,6-Tetrachlorophenol	232	7.707	7.707	0.000	75	290898	12.5	13.4	
98 2-Naphthylamine	143	7.742	7.742	0.000	95	805823	12.5	13.6	
99 Diethyl phthalate	149	7.818	7.818	0.000	98	848279	12.5	12.9	
101 Thionazin	107	7.894	7.894	0.000	78	145529	12.5	12.9	
100 Fluorene	166	7.923	7.923	0.000	93	910292	12.5	12.8	
102 4-Chlorophenyl phenyl ether	204	7.923	7.923	0.000	87	511267	12.5	13.0	
103 N-Nitro-o-toluidine	152	7.929	7.929	0.000	88	243535	12.5	14.0	
104 4-Nitroaniline	138	7.929	7.929	0.000	79	214570	12.5	14.2	
105 4,6-Dinitro-2-methylphenol	198	7.958	7.958	0.000	86	366353	25.0	27.2	
106 N-Nitrosodiphenylamine	169	8.033	8.033	0.000	63	646535	10.6	11.2	
107 1,2-Diphenylhydrazine	77	8.074	8.074	0.000	41	1125060	12.5	13.0	
$ 108 2,4,6-Tribromophenol	330	8.144	8.144	0.000	94	329954	25.0	26.4	
109 Sulfotepp	97	8.185	8.185	0.000	78	167066	12.5	13.0	
110 1,3,5-Trinitrobenzene	213	8.272	8.272	0.000	83	103162	12.5	12.6	
111 cis-Diallate	86	8.307	8.307	0.000	0	319579	9.25	9.09	
112 Phorate	75	8.319	8.319	0.000	95	683635	12.5	13.9	
113 Phenacetin	108	8.325	8.325	0.000	90	432688	12.5	14.0	
114 4-Bromophenyl phenyl ether	248	8.389	8.389	0.000	64	317265	12.5	12.6	
115 trans-Diallate	86	8.395	8.395	0.000	0	116268	3.25	3.27	
116 Hexachlorobenzene	284	8.436	8.436	0.000	96	351780	12.5	12.3	
117 Dimethoate	87	8.476	8.476	0.000	96	388252	12.5	13.6	
118 Atrazine	200	8.541	8.541	0.000	93	285136	12.5	13.1	
119 Pentachlorophenol	266	8.622	8.622	0.000	93	440197	25.0	27.4	
121 4-Aminobiphenyl	169	8.634	8.634	0.000	91	1050266	12.5	13.3	
120 Pentachloronitrobenzene	237	8.634	8.634	0.000	86	158934	12.5	13.2	
122 Pronamide	173	8.686	8.686	0.000	91	408935	12.5	14.0	
125 Dinoseb	211	8.803	8.803	0.000	97	251186	12.5	12.4	
* 123 Phenanthrene-d10	188	8.809	8.809	0.000	97	523765	5.00	5.00	
126 Disulfoton	88	8.814	8.814	0.000	96	653262	12.5	13.1	
124 Phenanthrene	178	8.832	8.832	0.000	97	1406527	12.5	12.6	
127 Anthracene	178	8.879	8.879	0.000	98	1407256	12.5	13.0	
128 Carbazole	167	9.030	9.030	0.000	96	1233795	12.5	13.4	
129 Methyl parathion	109	9.170	9.170	0.000	94	276938	12.5	12.7	
130 Di-n-butyl phthalate	149	9.374	9.374	0.000	100	1364211	12.5	13.8	
132 Ethyl Parathion	109	9.543	9.543	0.000	85	166653	12.5	13.6	
131 4-Nitroquinoline-1-oxide	190	9.566	9.566	0.000	79	105871	12.5	12.0	
S 67 Diallate	86				0		12.5	12.4	
134 Octachlorostyrene	308	9.782	9.782	0.000	91	135225	12.5	12.4	
135 Isodrin	193	9.823	9.823	0.000	92	173665	12.5	12.0	
136 Fluoranthene	202	9.963	9.963	0.000	97	1582689	12.5	13.2	
137 Benzidine	184	10.097	10.097	0.000	99	3018021	37.5	41.7	
* 138 Pyrene-d10 (IS)	212	10.161	10.161	0.000	98	552251	5.00	5.00	
139 Pyrene	202	10.178	10.178	0.000	98	1688073	12.5	12.6	
$ 142 p-Terphenyl-d14	244	10.342	10.342	0.000	99	2630683	25.0	26.0	
145 p-Dimethylamino azobenzene	225	10.481	10.481	0.000	89	293418	12.5	12.4	
146 Chlorobenzilate	139	10.534	10.534	0.000	97	424584	12.5	13.9	
148 3,3'-Dimethylbenzidine	212	10.837	10.837	0.000	99	943179	12.5	13.4	
150 Butyl benzyl phthalate	149	10.860	10.860	0.000	96	599459	12.5	13.7	
151 2-Acetylaminofluorene	181	11.111	11.111	0.000	93	476757	12.5	13.2	
153 3,3'-Dichlorobenzidine	252	11.455	11.455	0.000	74	621503	12.5	13.8	
154 4,4'-Methylene bis(2-chloroani	231	11.461	11.461	0.000	96	330153	12.5	13.6	
152 Benzo[a]anthracene	228	11.472	11.472	0.000	97	1655156	12.5	13.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
155 Chrysene	228	11.513	11.513	0.000	96	1631515	12.5	13.1	
156 Bis(2-ethylhexyl) phthalate	149	11.548	11.548	0.000	97	782760	12.5	15.9	M
157 6-Methylchrysene	242	12.096	12.096	0.000	98	1094642	12.5	13.4	
158 Di-n-octyl phthalate	149	12.428	12.428	0.000	99	1165197	12.5	16.2	
159 Benzo[b]fluoranthene	252	12.895	12.895	0.000	96	1636681	12.5	13.5	
160 7,12-Dimethylbenz(a)anthracene	256	12.895	12.895	0.000	72	690864	12.5	14.2	
161 Benzo[k]fluoranthene	252	12.935	12.935	0.000	98	1607890	12.5	13.1	
162 Benzo[a]pyrene	252	13.361	13.361	0.000	75	1309908	12.5	13.7	
* 163 Perylene-d12	264	13.442	13.442	0.000	99	459248	5.00	5.00	
164 3-Methylcholanthrene	268	13.880	13.880	0.000	89	712172	12.5	13.7	
165 Dibenz[a,h]acridine	279	14.678	14.678	0.000	90	1029704	12.5	13.8	
166 Dibenz[a,j]acridine	279	14.742	14.742	0.000	96	1201588	12.5	14.1	
167 Indeno[1,2,3-cd]pyrene	276	14.981	14.981	0.000	97	1156215	12.5	13.7	
168 Dibenz(a,h)anthracene	278	15.022	15.022	0.000	91	1337063	12.5	13.4	
169 Benzo[g,h,i]perylene	276	15.366	15.366	0.000	97	1364413	12.5	13.2	
S 170 Aramite, Total	185		44.000				12.5	ND	
S 177 Isosafrole	162				0		12.5	13.0	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RV8270_6_00036 Amount Added: 1.00 Units: mL

Report Date: 08-Nov-2022 11:34:12 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0701a.D

Injection Date: 07-Nov-2022 18:52:30 Instrument ID: HP19760 Operator ID: kel10217

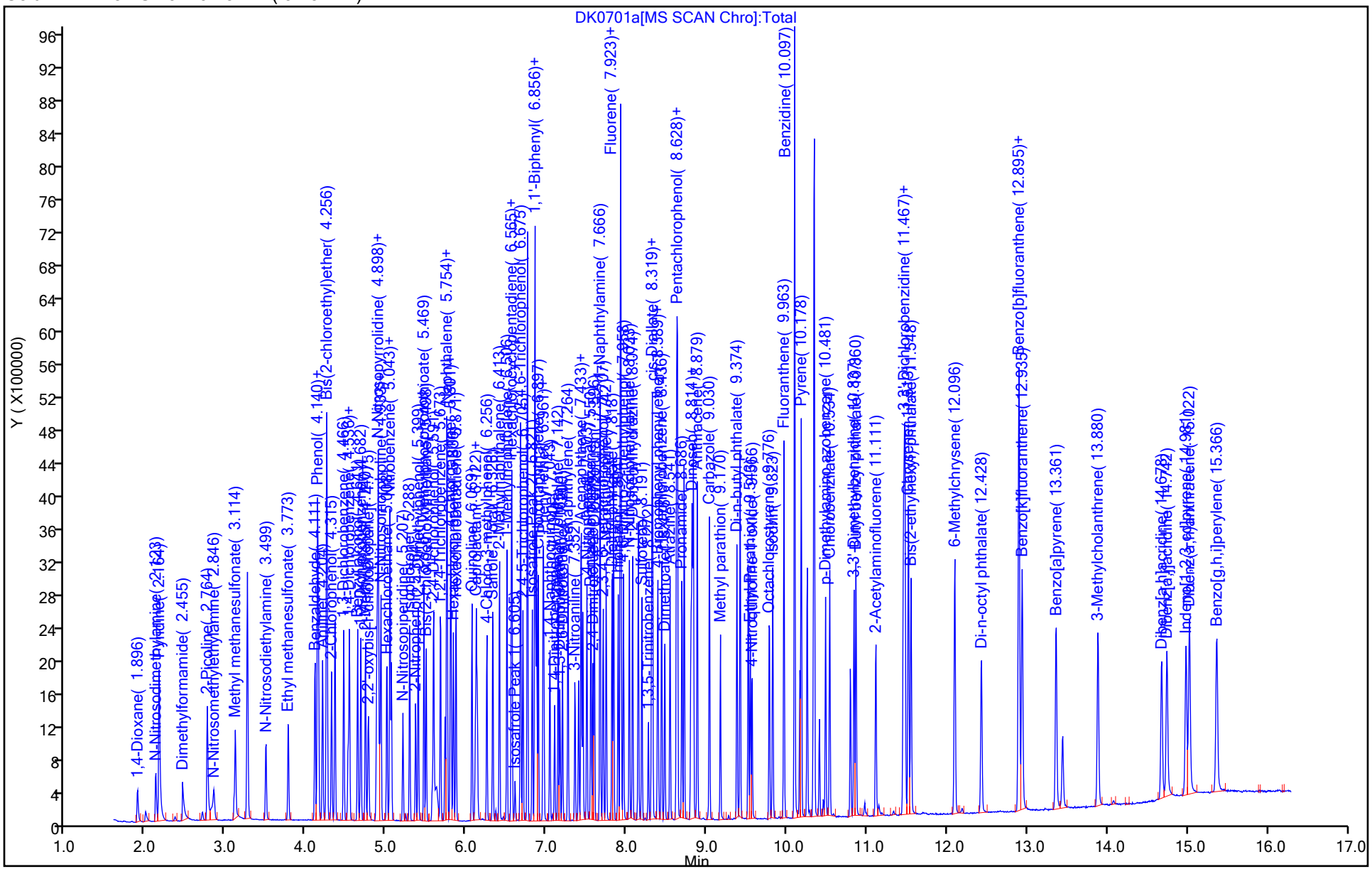
Lims ID: ICIS L6 Worklist Smp#: 2

Client ID:

Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 2

Method: MSSemi_HP19760 Limit Group: MSSV - 8270D_E LVI

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

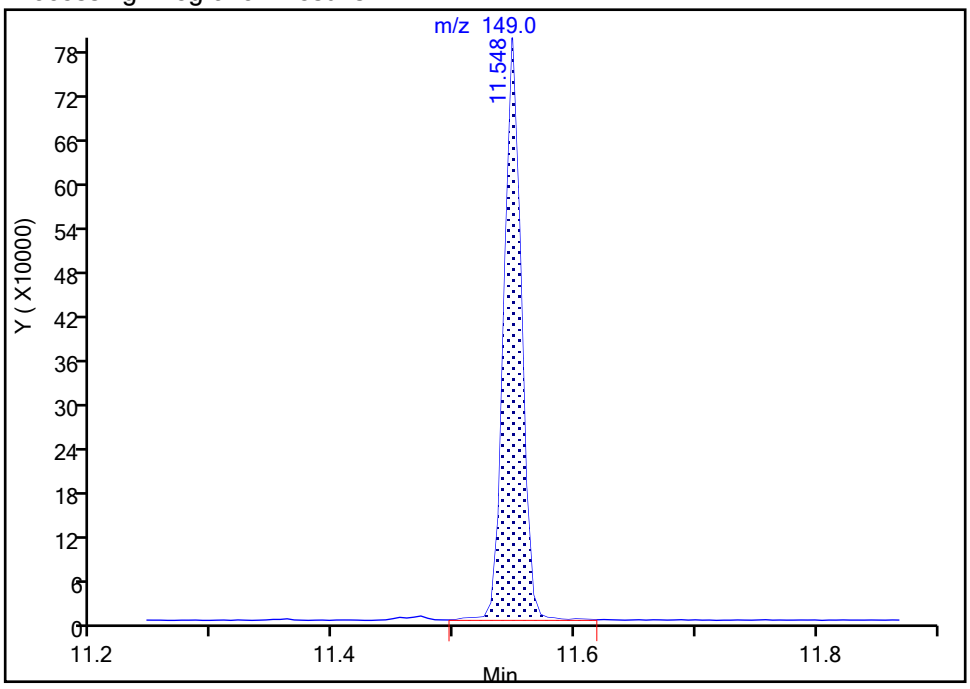
Data File:	\\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0701a.D				
Injection Date:	07-Nov-2022 18:52:30	Instrument ID:	HP19760		
Lims ID:	ICIS L6				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP19760	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

156 Bis(2-ethylhexyl) phthalate, CAS: 117-81-7

Signal: 1

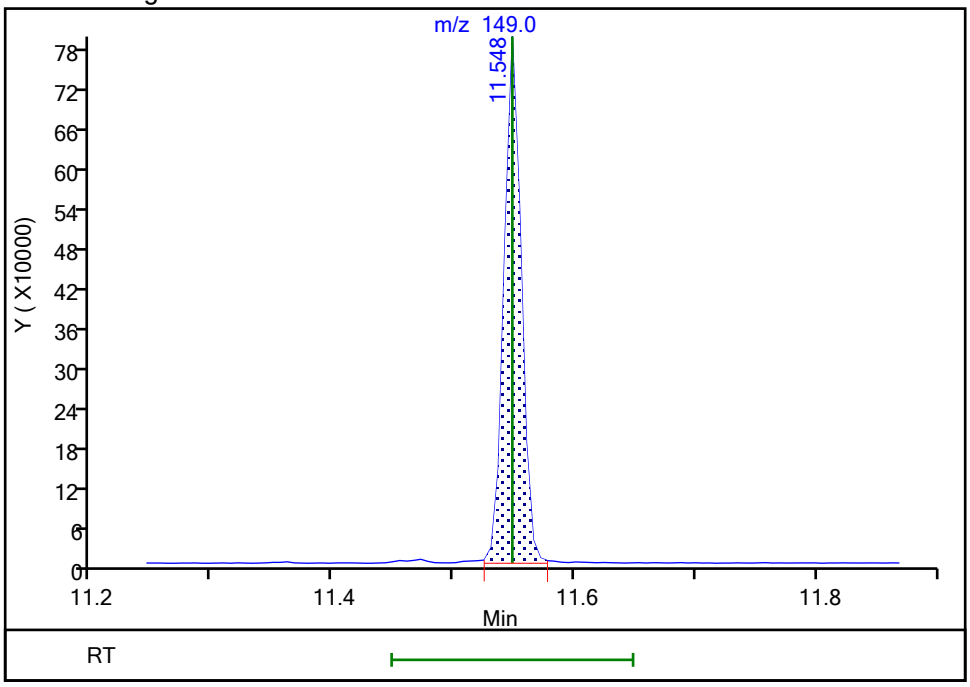
Processing Integration Results

RT: 11.55
Area: 791917
Amount: 13.114667
Amount Units: ug/ml



Manual Integration Results

RT: 11.55
Area: 782760
Amount: 15.906386
Amount Units: ug/ml



Reviewer: SJ89, 07-Nov-2022 22:51:35
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\HP19760\20221107-70576.b\DK0702.D
Lims ID: IC L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 07-Nov-2022 19:20:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L1
Misc. Info.: 410-0070576-003
Operator ID: kel10217 Instrument ID: HP19760
Sublist: chrom-MSSemi_HP19760*sub24

Method: \\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\MSSemi_HP19760.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 08-Nov-2022 11:34:18 Calib Date: 08-Nov-2022 01:34:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0720.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1681

First Level Reviewer: SJ89 Date: 07-Nov-2022 19:51:38

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	2 1,4-Dioxane	88	1.907	1.896	0.011	60	1692	0.1250	0.1127	M
	3 N-Nitrosodimethylamine	74	2.141	2.123	0.018	58	3448	0.1250	0.1315	M
	4 Pyridine	79	2.187	2.164	0.023	97	11920	0.2500	0.2972	
	5 Dimethylformamide	73		2.455				ND	ND	U
	6 2-Picoline	93	2.788	2.764	0.024	89	4919	0.1250	0.1236	
	7 N-Nitrosomethylethylamine	88		2.846				ND	ND	U
	8 Methyl methanesulfonate	80	3.120	3.114	0.006	85	2974	0.1250	0.1262	
$	10 2-Fluorophenol	112	3.265	3.266	-0.001	92	7845	0.2500	0.2468	
	11 N-Nitrosodiethylamine	102	3.499	3.499	0.000	83	2043	0.1250	0.1292	
	12 Ethyl methanesulfonate	109	3.778	3.773	0.005	95	2115	0.1250	0.1221	
$	17 Phenol-d5	99	4.140	4.140	0.000	93	11857	0.2500	0.2735	
	18 Phenol	94	4.151	4.152	-0.001	48	5932	0.1250	0.1347	
	16 Aniline	93	4.204	4.204	0.000	51	6671	0.1250	0.1280	
	19 Bis(2-chloroethyl)ether	93	4.262	4.262	0.000	75	3736	0.1250	0.1054	
	20 2-Chlorophenol	128	4.315	4.315	0.000	84	3694	0.1250	0.1291	
	21 1,3-Dichlorobenzene	146	4.466	4.466	0.000	91	4785	0.1250	0.1401	
*	22 1,4-Dichlorobenzene-d4	152	4.519	4.525	-0.006	96	116042	5.00	5.00	
	23 1,4-Dichlorobenzene	146	4.536	4.536	0.000	88	4592	0.1250	0.1323	
	25 Benzyl alcohol	108	4.641	4.641	0.000	86	3096	0.1250	0.1466	
	24 1,2-Dichlorobenzene	146	4.682	4.682	0.000	92	3959	0.1250	0.1214	
	27 2-Methylphenol	108	4.734	4.740	-0.006	93	3818	0.1250	0.1324	
	28 2,2'-oxybis[1-chloropropane]	45	4.775	4.775	0.000	87	5881	0.1250	0.1416	
	30 N-Nitrosopyrrolidine	100	4.880	4.874	0.006	54	1933	0.1250	0.1174	
	35 4-Methylphenol	108	4.880	4.886	-0.006	91	4575	0.1250	0.1467	
	32 N-Nitrosodi-n-propylamine	70	4.892	4.898	-0.006	75	3655	0.1250	0.1257	
	31 Acetophenone	105	4.897	4.898	-0.001	93	6660	0.1250	0.1361	
	33 N-Nitrosomorpholine	56	4.915	4.915	0.000	86	3377	0.1250	0.1572	
	34 2-Toluidine	106	4.927	4.933	-0.006	94	6899	0.1250	0.1309	
	36 Hexachloroethane	117	5.008	5.008	0.000	85	2092	0.1250	0.1407	
$	37 Nitrobenzene-d5	82	5.043	5.043	0.000	89	10595	0.2500	0.2590	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
38 Nitrobenzene	77	5.061	5.061	0.000	84	6929	0.1250	0.1636	
39 N-Nitrosopiperidine	114	5.206	5.207	-0.001	85	2144	0.1250	0.1405	
40 Isophorone	82	5.288	5.288	0.000	95	9508	0.1250	0.1375	
41 2-Nitrophenol	139	5.364	5.364	0.000	86	1506	0.1250	0.1100	
42 2,4-Dimethylphenol	107	5.393	5.399	-0.006	92	4473	0.1250	0.1366	
43 o,o',o''-Triethylphosphorothioat	198	5.469	5.469	0.000	76	2627	0.1250	0.1471	
44 Bis(2-chloroethoxy)methane	93	5.498	5.498	0.000	94	6026	0.1250	0.1412	
47 2,4-Dichlorophenol	162	5.585	5.591	-0.006	83	3681	0.1250	0.1491	
48 1,2,4-Trichlorobenzene	180	5.673	5.679	-0.006	81	5412	0.1250	0.1763	
* 49 Naphthalene-d8	136	5.731	5.731	0.000	100	395445	5.00	5.00	
50 Naphthalene	128	5.748	5.754	-0.006	95	10723	0.1250	0.1271	
51 Alpha-Terpineol	59	5.760	5.760	0.000	79	3483	0.1250	0.1282	
52 4-Chloroaniline	127	5.801	5.801	0.000	74	3339	0.1250	0.1010	
53 2,6-Dichlorophenol	162	5.807	5.807	0.000	85	3286	0.1250	0.1337	
54 Hexachloropropene	213	5.836	5.836	0.000	82	3352	0.1250	0.1358	
55 Hexachlorobutadiene	225	5.865	5.871	-0.006	88	3043	0.1250	0.1440	
56 Quinoline	129	6.069	6.069	0.000	90	6532	0.1250	0.1264	
59 N-Nitrosodi-n-butylamine	84	6.122	6.122	0.000	85	4408	0.1250	0.1385	M
58 p-Phenylene diamine	108	6.133	6.133	0.000	88	4010	0.1250	0.1380	
60 4-Chloro-3-methylphenol	107	6.250	6.256	-0.006	82	3383	0.1250	0.1256	
61 Safrole, Total	162	6.331	6.331	0.000	85	2880	0.1250	0.1255	
62 2-Methylnaphthalene	142	6.413	6.413	0.000	89	7021	0.1250	0.1339	
63 1-Methylnaphthalene	142	6.506	6.506	0.000	91	6545	0.1250	0.1231	
64 Hexachlorocyclopentadiene	237	6.559	6.559	0.000	90	3334	0.1250	0.1227	
65 1,2,4,5-Tetrachlorobenzene	216	6.564	6.570	-0.006	93	5575	0.1250	0.1499	
66 Isosafrole Peak 1	162	6.605	6.605	0.000	1	364	0.0200	0.0143	a
68 2,4,6-Trichlorophenol	196	6.675	6.675	0.000	77	2424	0.1250	0.1197	
69 2,4,5-Trichlorophenol	196	6.704	6.705	-0.001	88	3215	0.1250	0.1457	
$ 70 2-Fluorobiphenyl (Surr)	172	6.757	6.763	-0.006	99	19394	0.2500	0.2716	
71 Isosafrole Peak 2	162	6.821	6.821	0.000	90	3475	0.1050	0.1184	
77 1,1'-Biphenyl	154	6.856	6.856	0.000	92	9670	0.1250	0.1297	
78 2-Chloronaphthalene	162	6.873	6.874	-0.001	92	8437	0.1250	0.1457	
79 1-Chloronaphthalene	162	6.897	6.897	0.000	97	6869	0.1250	0.1218	
80 Phenyl ether	170	6.955	6.955	0.000	85	5677	0.1250	0.1339	
81 2-Nitroaniline	138	6.967	6.967	0.000	50	1454	0.1250	0.0988	
82 1,4-Naphthoquinone	158	7.037	7.043	-0.006	84	2399	0.1250	0.1174	
83 1,4-Dinitrobenzene	168	7.101	7.101	0.000	31	680	0.1250	0.0799	a
84 Dimethyl phthalate	163	7.142	7.142	0.000	97	9065	0.1250	0.1420	
85 1,3-Dinitrobenzene	168	7.165	7.165	0.000	84	1144	0.1250	0.1174	
86 2,6-Dinitrotoluene	165	7.194	7.200	-0.006	18	1123	0.1250	0.0802	
87 Acenaphthylene	152	7.264	7.264	0.000	98	9992	0.1250	0.1252	
88 3-Nitroaniline	138	7.351	7.352	-0.001	83	1591	0.1250	0.1227	
* 89 Acenaphthene-d10	164	7.398	7.398	0.000	93	243431	5.00	5.00	
90 Acenaphthene	153	7.427	7.433	-0.006	96	7016	0.1250	0.1214	
91 2,4-Dinitrophenol	184	7.450	7.451	-0.001	79	7614	1.25	0.8004	
93 4-Nitrophenol	109	7.497	7.503	-0.006	80	6315	0.7500	0.6371	
92 Pentachlorobenzene	250	7.555	7.556	-0.001	91	4051	0.1250	0.1288	
95 2,4-Dinitrotoluene	165	7.579	7.579	0.000	90	2063	0.1250	0.1148	
94 Dibenzofuran	168	7.596	7.596	0.000	97	11335	0.1250	0.1350	
96 1-Naphthylamine	143	7.666	7.666	0.000	97	6084	0.1250	0.1208	
97 2,3,4,6-Tetrachlorophenol	232	7.707	7.707	0.000	68	2234	0.1250	0.1096	
98 2-Naphthylamine	143	7.742	7.742	0.000	96	6693	0.1250	0.1204	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
99 Diethyl phthalate	149	7.812	7.818	-0.006	95	8494	0.1250	0.1377	
101 Thionazin	107	7.893	7.894	-0.001	75	1566	0.1250	0.1487	
100 Fluorene	166	7.917	7.923	-0.006	90	8161	0.1250	0.1224	
102 4-Chlorophenyl phenyl ether	204	7.923	7.923	0.000	79	4145	0.1250	0.1128	
103 N-Nitro-o-toluidine	152	7.928	7.929	-0.001	64	2057	0.1250	0.1266	
104 4-Nitroaniline	138	7.928	7.929	-0.001	63	1393	0.1250	0.0985	
105 4,6-Dinitro-2-methylphenol	198	7.958	7.958	0.000	88	6991	0.7500	0.5543	
106 N-Nitrosodiphenylamine	169	8.033	8.033	0.000	61	5986	0.1063	0.1110	
107 1,2-Diphenylhydrazine	77	8.074	8.074	0.000	42	10490	0.1250	0.1299	
$ 108 2,4,6-Tribromophenol	330	8.144	8.144	0.000	91	2712	0.2500	0.2320	
109 Sulfotepp	97	8.185	8.185	0.000	78	1769	0.1250	0.1475	
110 1,3,5-Trinitrobenzene	213	8.266	8.272	-0.006	2	581	0.1250	0.6540	
111 cis-Diallate	86	8.313	8.307	0.006	0	3677	0.0925	0.1116	
112 Phorate	75	8.319	8.319	0.000	91	5746	0.1250	0.1245	
113 Phenacetin	108	8.319	8.325	-0.006	67	2912	0.1250	0.1005	
114 4-Bromophenyl phenyl ether	248	8.389	8.389	0.000	66	2806	0.1250	0.1189	
115 trans-Diallate	86	8.395	8.395	0.000	0	1634	0.0325	0.0490	
116 Hexachlorobenzene	284	8.435	8.436	-0.001	86	3684	0.1250	0.1375	
117 Dimethoate	87	8.470	8.476	-0.006	87	2320	0.1250	0.0868	
119 Pentachlorophenol	266	8.622	8.622	0.000	91	8420	0.6250	0.5601	
121 4-Aminobiphenyl	169	8.628	8.634	-0.006	87	9679	0.1250	0.1309	
120 Pentachloronitrobenzene	237	8.634	8.634	0.000	47	1543	0.1250	0.1365	
122 Pronamide	173	8.686	8.686	0.000	84	2694	0.1250	0.0987	
125 Dinoseb	211	8.797	8.803	-0.006	60	1416	0.1250	0.6550	
* 123 Phenanthrene-d10	188	8.809	8.809	-0.001	96	490662	5.00	5.00	
126 Disulfoton	88	8.809	8.814	-0.006	54	12024	0.1250	0.2580	
124 Phenanthrene	178	8.832	8.832	0.000	95	14082	0.1250	0.1350	
127 Anthracene	178	8.878	8.879	-0.001	97	11747	0.1250	0.1160	
128 Carbazole	167	9.030	9.030	0.000	95	10819	0.1250	0.1253	
129 Methyl parathion	109	9.170	9.170	0.000	91	1661	0.1250	0.6668	
130 Di-n-butyl phthalate	149	9.374	9.374	0.000	99	11093	0.1250	0.1198	
132 Ethyl Parathion	109	9.543	9.543	0.000	1	782	0.1250	0.0683	
131 4-Nitroquinoline-1-oxide	190	9.566	9.566	0.000	4	620	0.1250	1.98	
S 67 Diallate	86				0		0.1250	0.1606	
134 Octachlorostyrene	308	9.782	9.782	0.000	76	1400	0.1250	0.1371	
135 Isodrin	193	9.823	9.823	0.000	79	4267	0.1250	0.3139	
136 Fluoranthene	202	9.963	9.963	0.000	97	13959	0.1250	0.1239	
137 Benzidine	184	10.091	10.097	-0.006	98	20115	0.3750	0.3106	
* 138 Pyrene-d10 (IS)	212	10.161	10.161	0.000	98	494593	5.00	5.00	
139 Pyrene	202	10.178	10.178	0.000	98	16588	0.1250	0.1381	
$ 142 p-Terphenyl-d14	244	10.341	10.342	-0.001	98	22380	0.2500	0.2469	
145 p-Dimethylamino azobenzene	225	10.481	10.481	0.000	88	1597	0.1250	0.8571	
146 Chlorobenzilate	139	10.534	10.534	0.000	90	2879	0.1250	0.1054	
148 3,3'-Dimethylbenzidine	212	10.831	10.837	-0.006	98	5847	0.1250	0.0926	
150 Butyl benzyl phthalate	149	10.860	10.860	0.000	94	4315	0.1250	0.1102	
151 2-Acetylaminofluorene	181	11.105	11.111	-0.006	83	2469	0.1250	0.0762	
153 3,3'-Dichlorobenzidine	252	11.449	11.455	-0.006	54	3856	0.1250	0.0954	
154 4,4'-Methylene bis(2-chloroani	231	11.461	11.461	0.000	76	1903	0.1250	0.0877	
152 Benzo[a]anthracene	228	11.472	11.472	0.000	95	11802	0.1250	0.1090	
155 Chrysene	228	11.513	11.513	0.000	95	14588	0.1250	0.1303	
156 Bis(2-ethylhexyl) phthalate	149	11.548	11.548	0.000	93	5478	0.1250	0.1243	M
157 6-Methylchrysene	242	12.090	12.096	-0.006	95	9571	0.1250	0.1305	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
158 Di-n-octyl phthalate	149	12.422	12.428	-0.006	64	7641	0.1250	0.1260	
159 Benzo[b]fluoranthene	252	12.894	12.895	-0.001	95	12500	0.1250	0.1224	
160 7,12-Dimethylbenz(a)anthracene	256	12.894	12.895	-0.001	71	4231	0.1250	0.1028	
161 Benzo[k]fluoranthene	252	12.929	12.935	-0.006	95	12218	0.1250	0.1182	
162 Benzo[a]pyrene	252	13.355	13.361	-0.006	75	9978	0.1250	0.1235	
* 163 Perylene-d12	264	13.442	13.442	0.000	99	387942	5.00	5.00	
164 3-Methylcholanthrene	268	13.879	13.880	-0.001	84	5987	0.1250	0.1367	
165 Dibenz[a,h]acridine	279	14.666	14.678	-0.012	88	7870	0.1250	0.1253	
166 Dibenz[a,j]acridine	279	14.736	14.742	-0.006	7	7500	0.1250	0.1043	a
167 Indeno[1,2,3-cd]pyrene	276	14.975	14.981	-0.006	95	8116	0.1250	0.1140	M
168 Dibenz(a,h)anthracene	278	15.022	15.022	0.000	1	9889	0.1250	0.1177	
169 Benzo[g,h,i]perylene	276	15.360	15.366	-0.006	93	10960	0.1250	0.1253	
S 170 Aramite, Total	185		44.000				0.1250	ND	
S 173 Dinitrotoluene	165				0			0.1951	
S 177 Isosafrole	162				0		0.1250	0.1327	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

MSS_RV8270_1_00026 Amount Added: 1.00 Units: mL

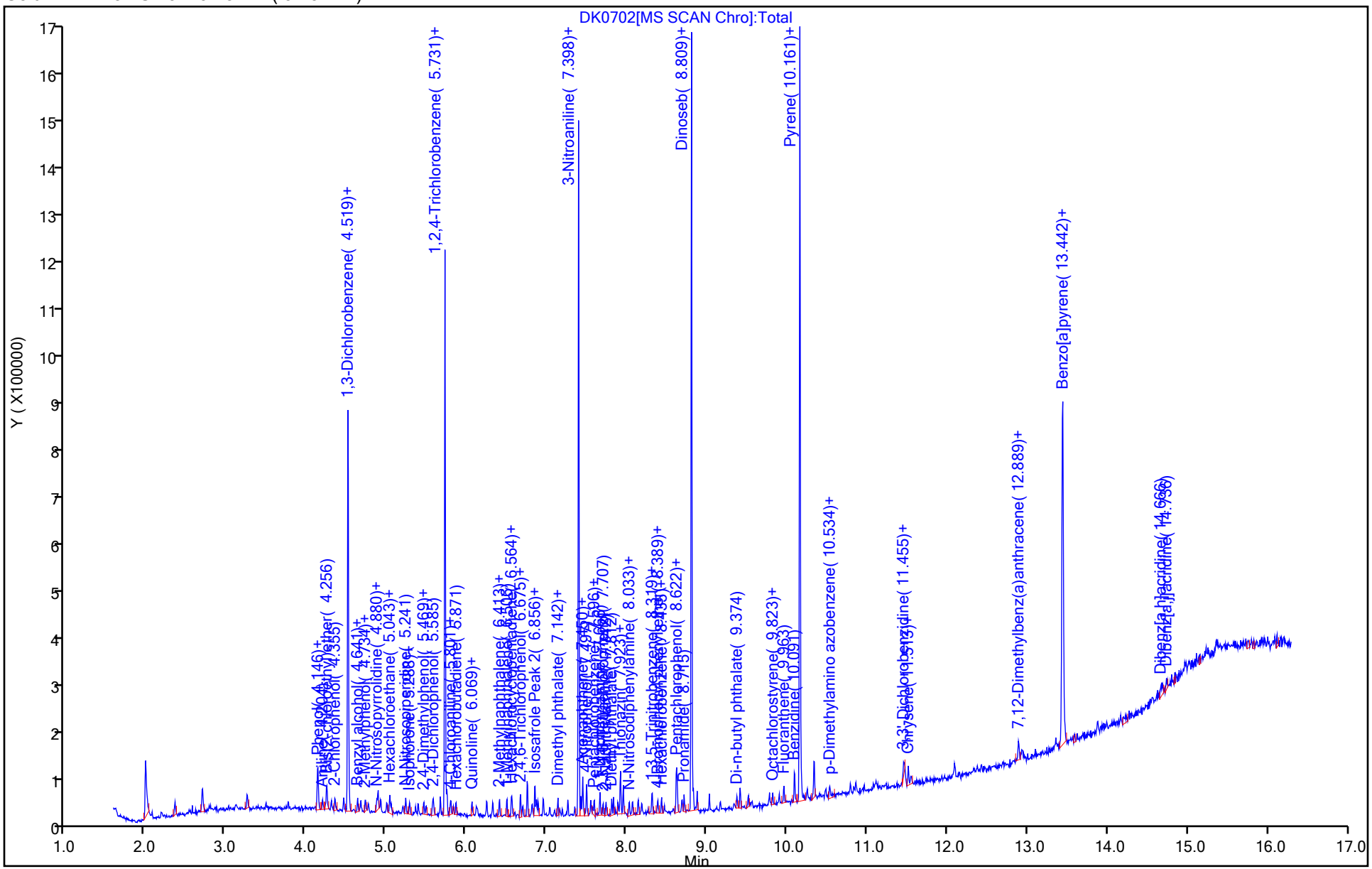
Report Date: 08-Nov-2022 11:34:19 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0702.D

Injection Date:	07-Nov-2022 19:20:30	Instrument ID:	HP19760	Operator ID:	kel10217
Lims ID:	IC L1			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	MSSemi_HP19760	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

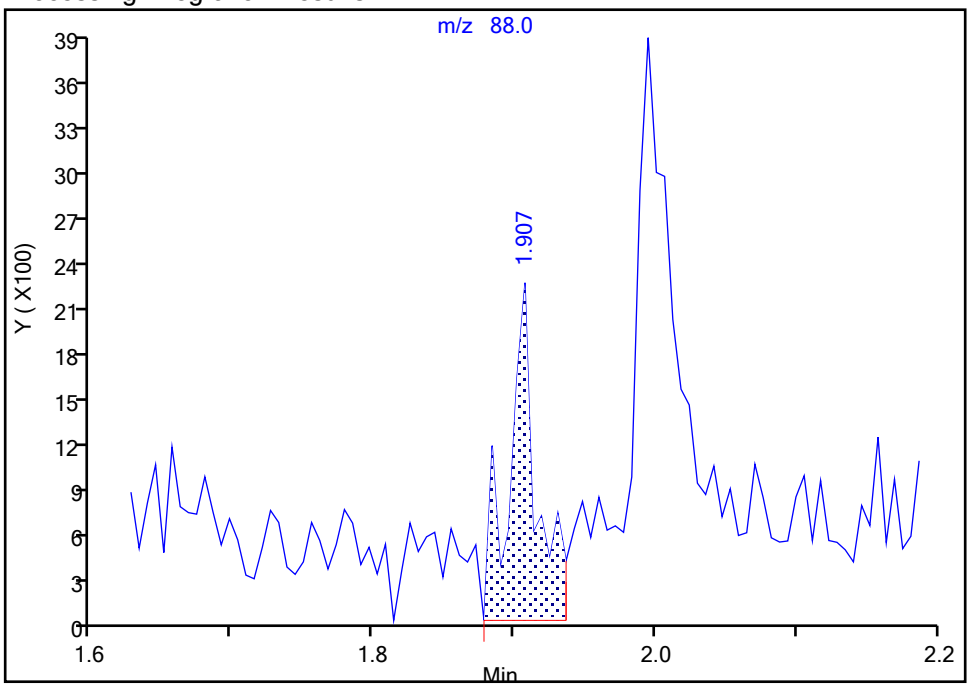
Data File:	\\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0702.D				
Injection Date:	07-Nov-2022 19:20:30	Instrument ID:	HP19760		
Lims ID:	IC L1				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP19760	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

2 1,4-Dioxane, CAS: 123-91-1

Signal: 1

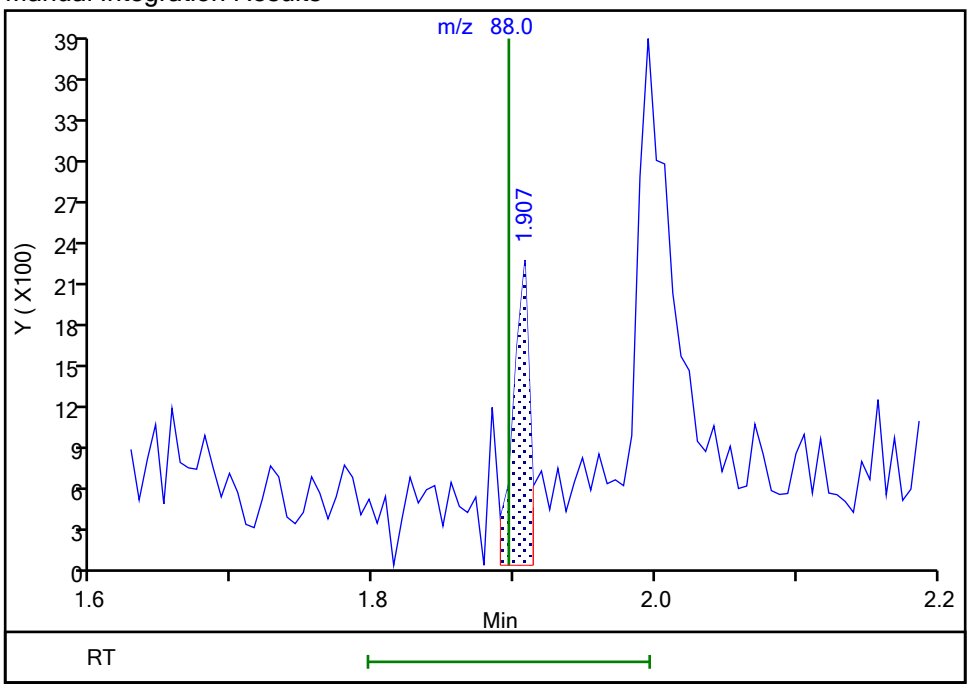
Processing Integration Results

RT: 1.91
Area: 2947
Amount: 0.153180
Amount Units: ug/ml



Manual Integration Results

RT: 1.91
Area: 1692
Amount: 0.112653
Amount Units: ug/ml



Reviewer: SJ89, 07-Nov-2022 19:50:33
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

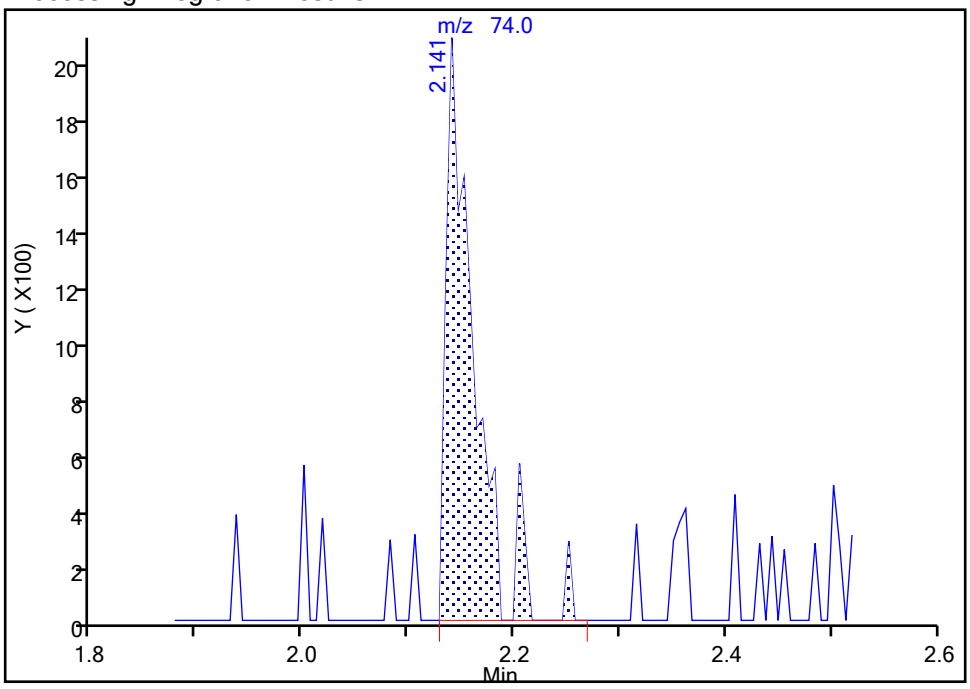
Data File:	\\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0702.D				
Injection Date:	07-Nov-2022 19:20:30	Instrument ID:	HP19760		
Lims ID:	IC L1				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP19760	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

3 N-Nitrosodimethylamine, CAS: 62-75-9

Signal: 1

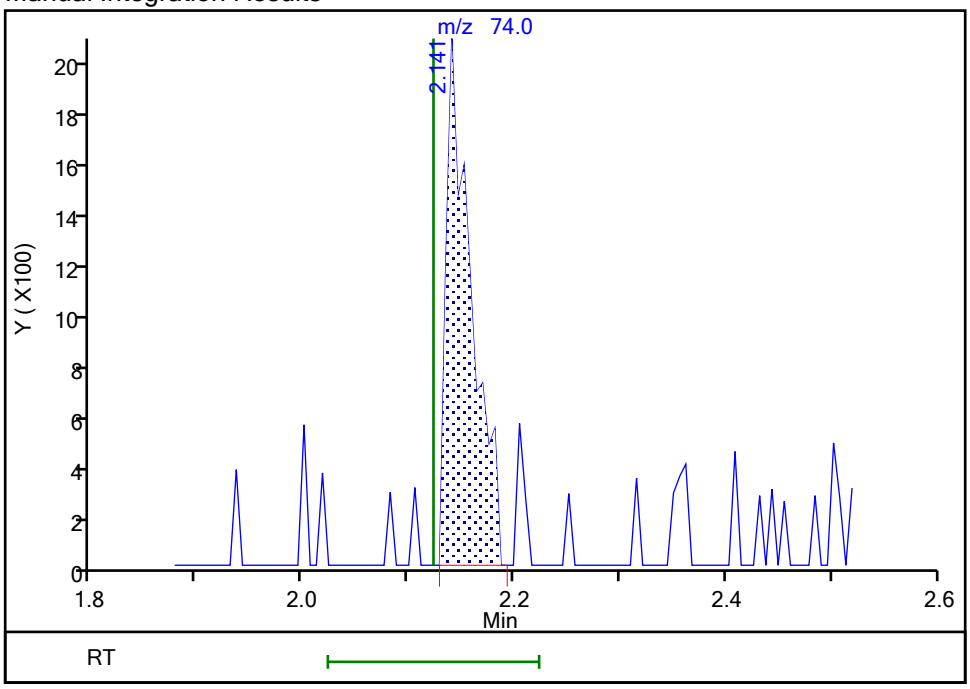
Processing Integration Results

RT: 2.14
Area: 3837
Amount: 0.138881
Amount Units: ug/ml



Manual Integration Results

RT: 2.14
Area: 3448
Amount: 0.131516
Amount Units: ug/ml



Reviewer: SJ89, 07-Nov-2022 19:50:40
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

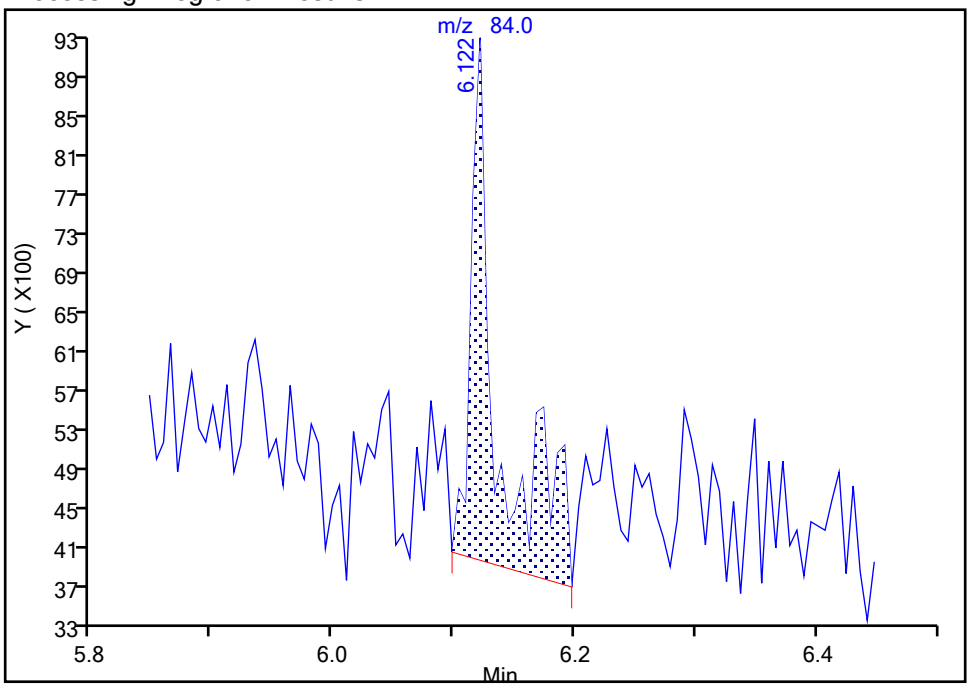
Data File:	\\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0702.D				
Injection Date:	07-Nov-2022 19:20:30	Instrument ID:	HP19760		
Lims ID:	IC L1				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP19760	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

59 N-Nitrosodi-n-butylamine, CAS: 924-16-3

Signal: 1

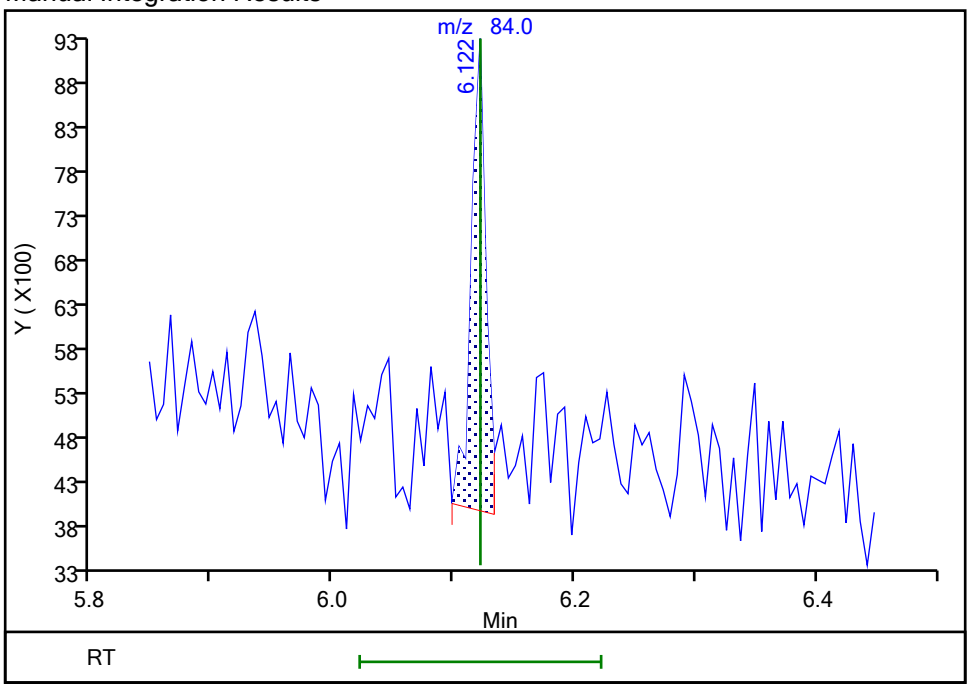
Processing Integration Results

RT: 6.12
Area: 7979
Amount: 0.166314
Amount Units: ug/ml



Manual Integration Results

RT: 6.12
Area: 4408
Amount: 0.138473
Amount Units: ug/ml



Reviewer: SJ89, 07-Nov-2022 19:51:12
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

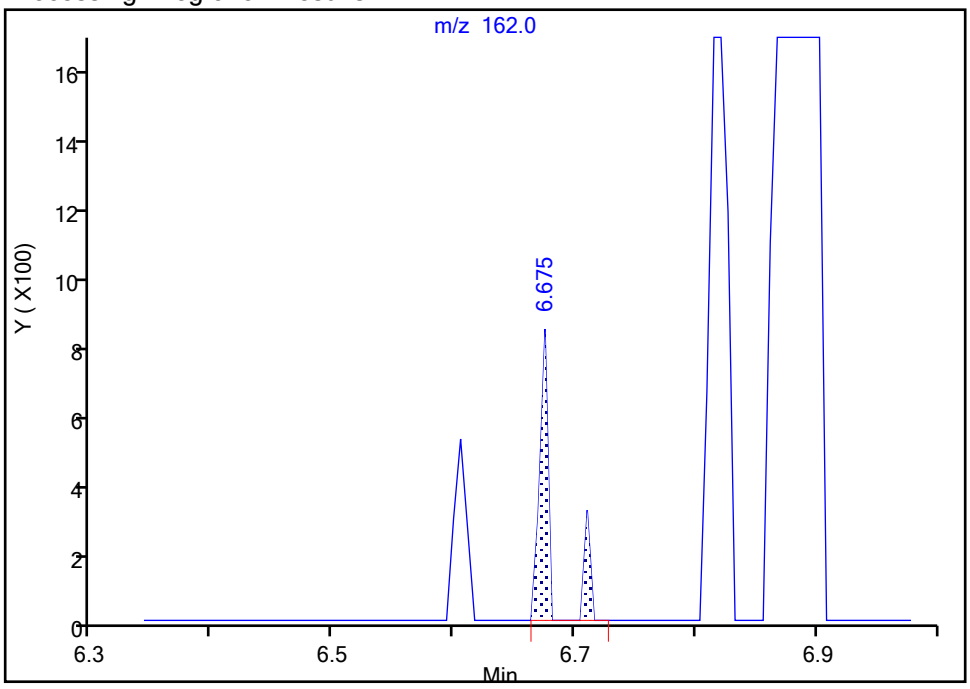
Data File:	\\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0702.D				
Injection Date:	07-Nov-2022 19:20:30	Instrument ID:	HP19760		
Lims ID:	IC L1				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP19760	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

66 Isosafrole Peak 1, CAS: 120-58-1

Signal: 1

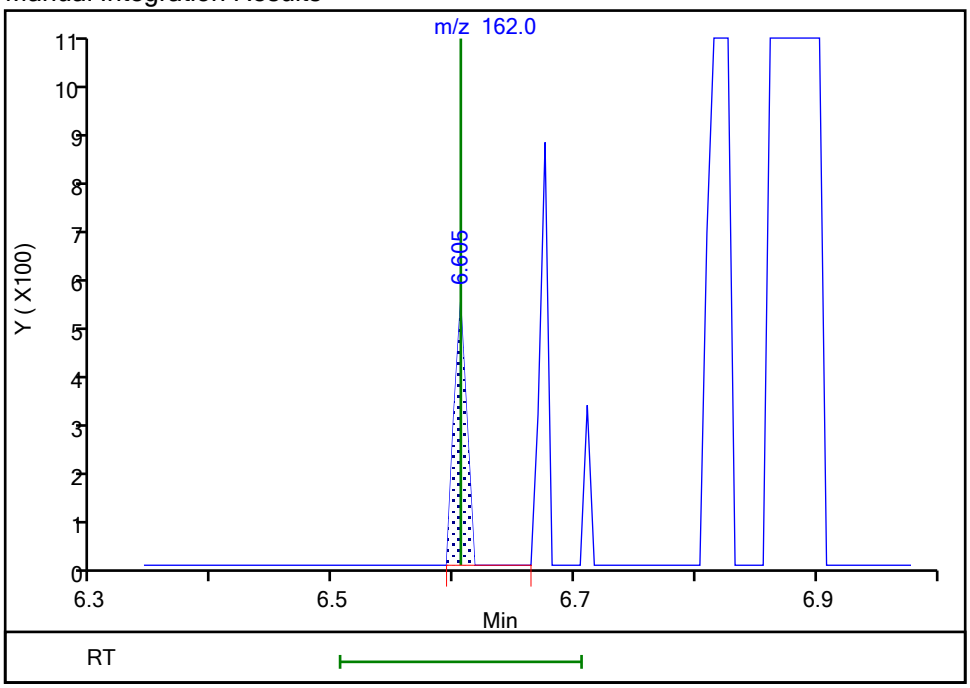
Processing Integration Results

RT: 6.68
Area: 492
Amount: 0.018634
Amount Units: ug/ml



Manual Integration Results

RT: 6.61
Area: 364
Amount: 0.014347
Amount Units: ug/ml



Reviewer: SJ89, 07-Nov-2022 19:51:34
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

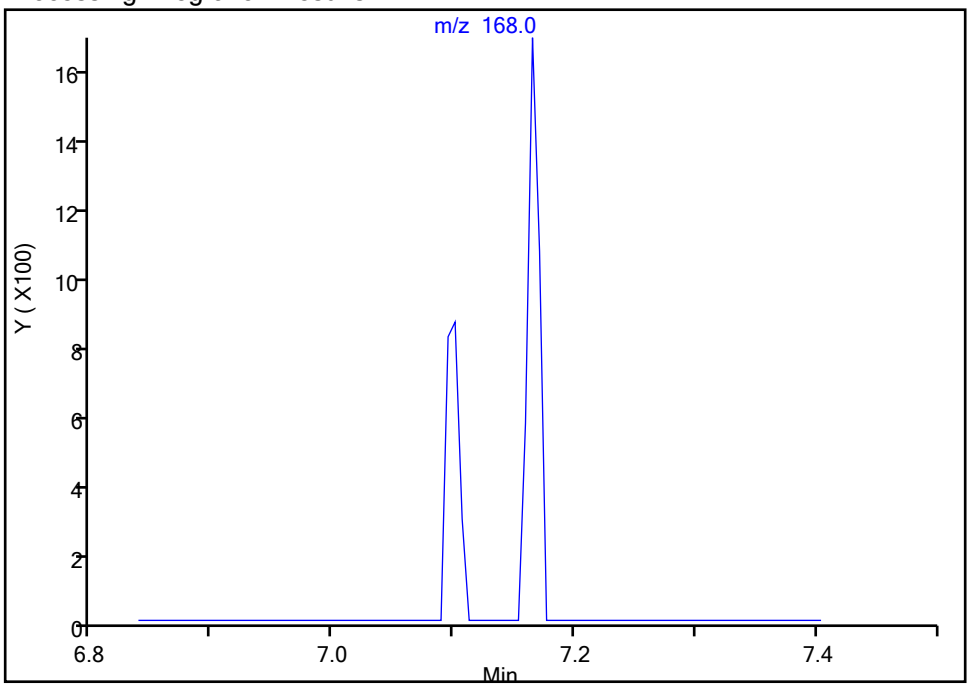
Data File: \\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0702.D
Injection Date: 07-Nov-2022 19:20:30 Instrument ID: HP19760
Lims ID: IC L1
Client ID:
Operator ID: kel10217 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP19760 Limit Group: MSSV - 8270D_E LVI
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

83 1,4-Dinitrobenzene, CAS: 100-25-4

Signal: 1

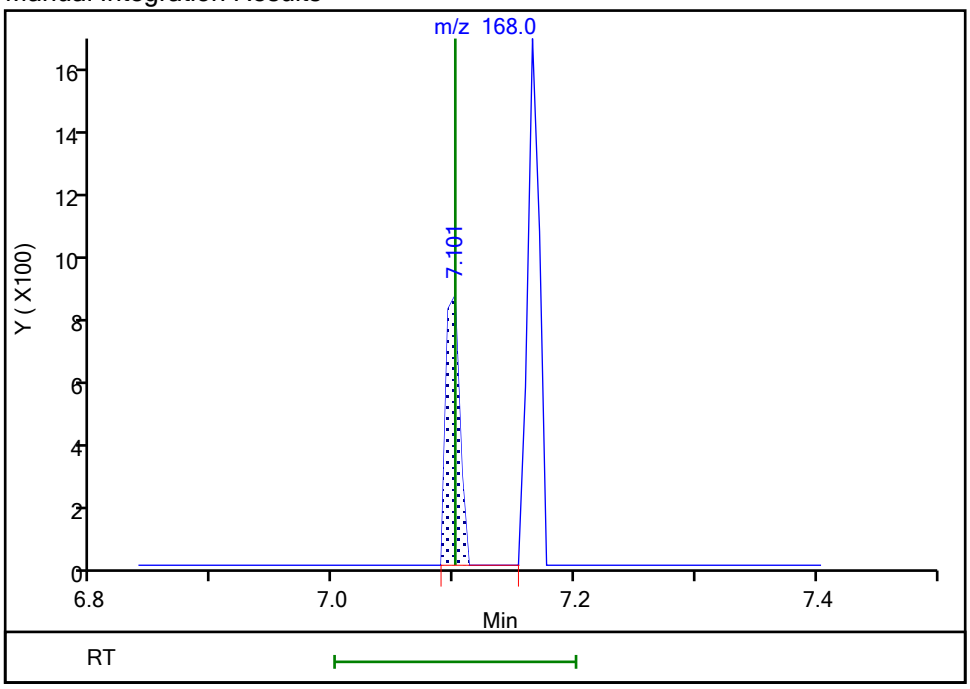
Not Detected
Expected RT: 7.10

Processing Integration Results



Manual Integration Results

RT: 7.10
Area: 680
Amount: 0.079891
Amount Units: ug/ml



Reviewer: SJ89, 07-Nov-2022 19:52:16
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

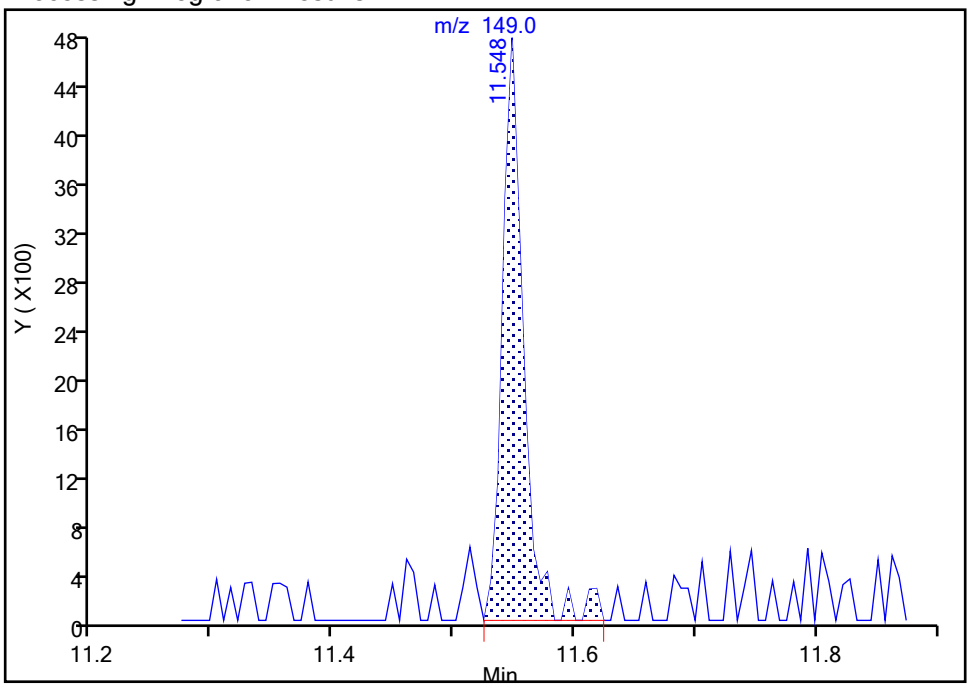
Data File:	\\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0702.D				
Injection Date:	07-Nov-2022 19:20:30	Instrument ID:	HP19760		
Lims ID:	IC L1				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP19760	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

156 Bis(2-ethylhexyl) phthalate, CAS: 117-81-7

Signal: 1

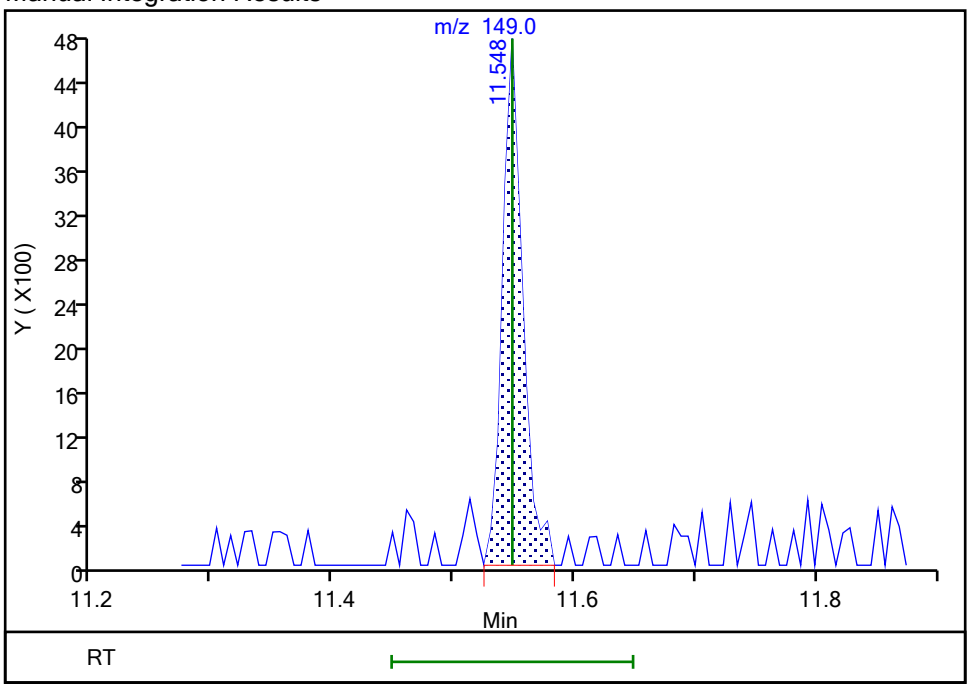
Processing Integration Results

RT: 11.55
Area: 5746
Amount: 0.171174
Amount Units: ug/ml



Manual Integration Results

RT: 11.55
Area: 5478
Amount: 0.124295
Amount Units: ug/ml



Reviewer: SJ89, 07-Nov-2022 22:52:18
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

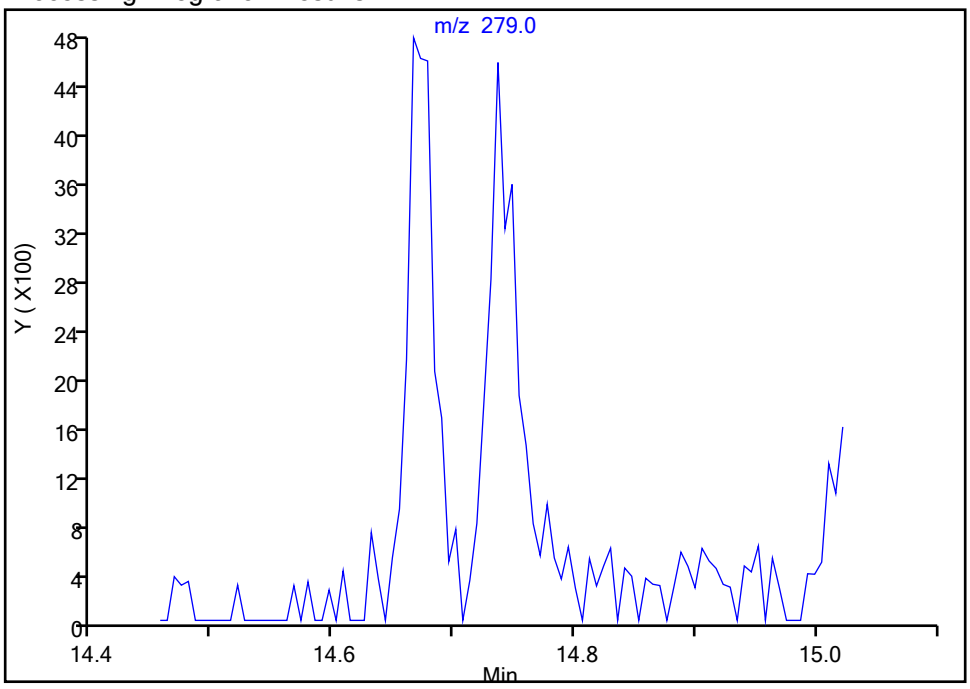
Data File:	\\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0702.D				
Injection Date:	07-Nov-2022 19:20:30	Instrument ID:	HP19760		
Lims ID:	IC L1				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP19760	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

166 Dibenz[a,j]acridine, CAS: 224-42-0

Signal: 1

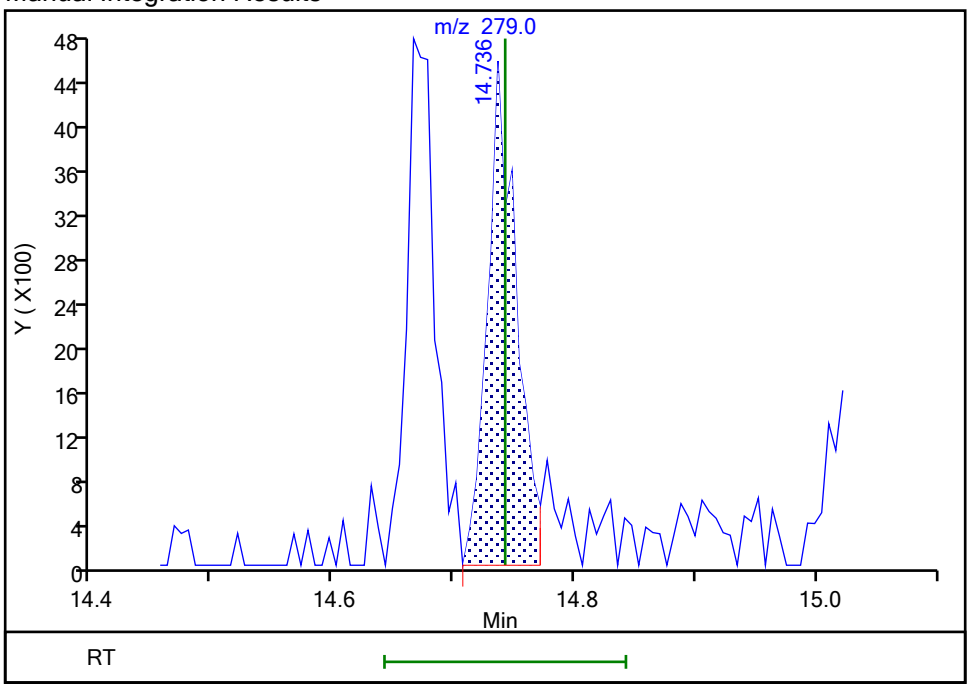
Not Detected
Expected RT: 14.74

Processing Integration Results



Manual Integration Results

RT: 14.74
Area: 7500
Amount: 0.104277
Amount Units: ug/ml



Reviewer: SJ89, 07-Nov-2022 19:52:55
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

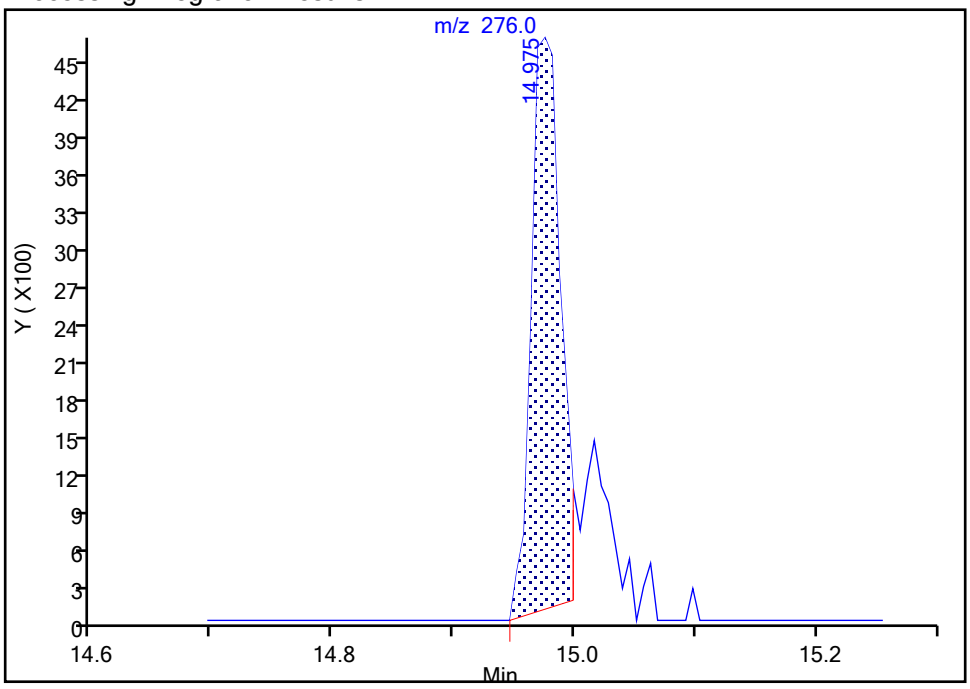
Data File:	\\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0702.D				
Injection Date:	07-Nov-2022 19:20:30	Instrument ID:	HP19760		
Lims ID:	IC L1				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP19760	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

167 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

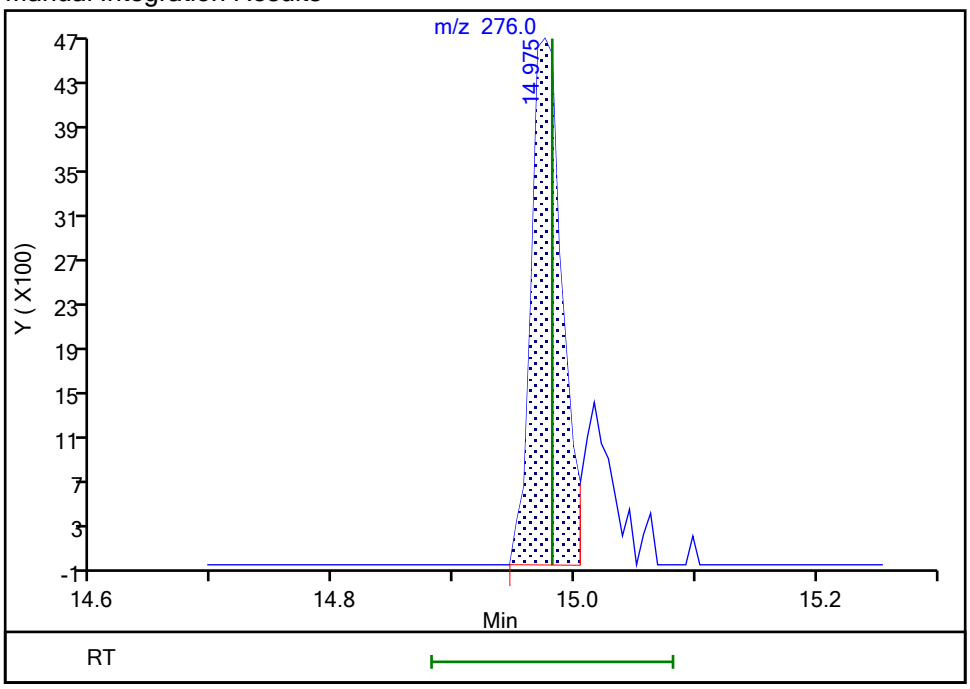
Processing Integration Results

RT: 14.98
Area: 7551
Amount: 0.109006
Amount Units: ug/ml



Manual Integration Results

RT: 14.98
Area: 8116
Amount: 0.114000
Amount Units: ug/ml



Reviewer: SJ89, 07-Nov-2022 19:53:09

Audit Action: Manually Integrated Audit Reason: Baseline

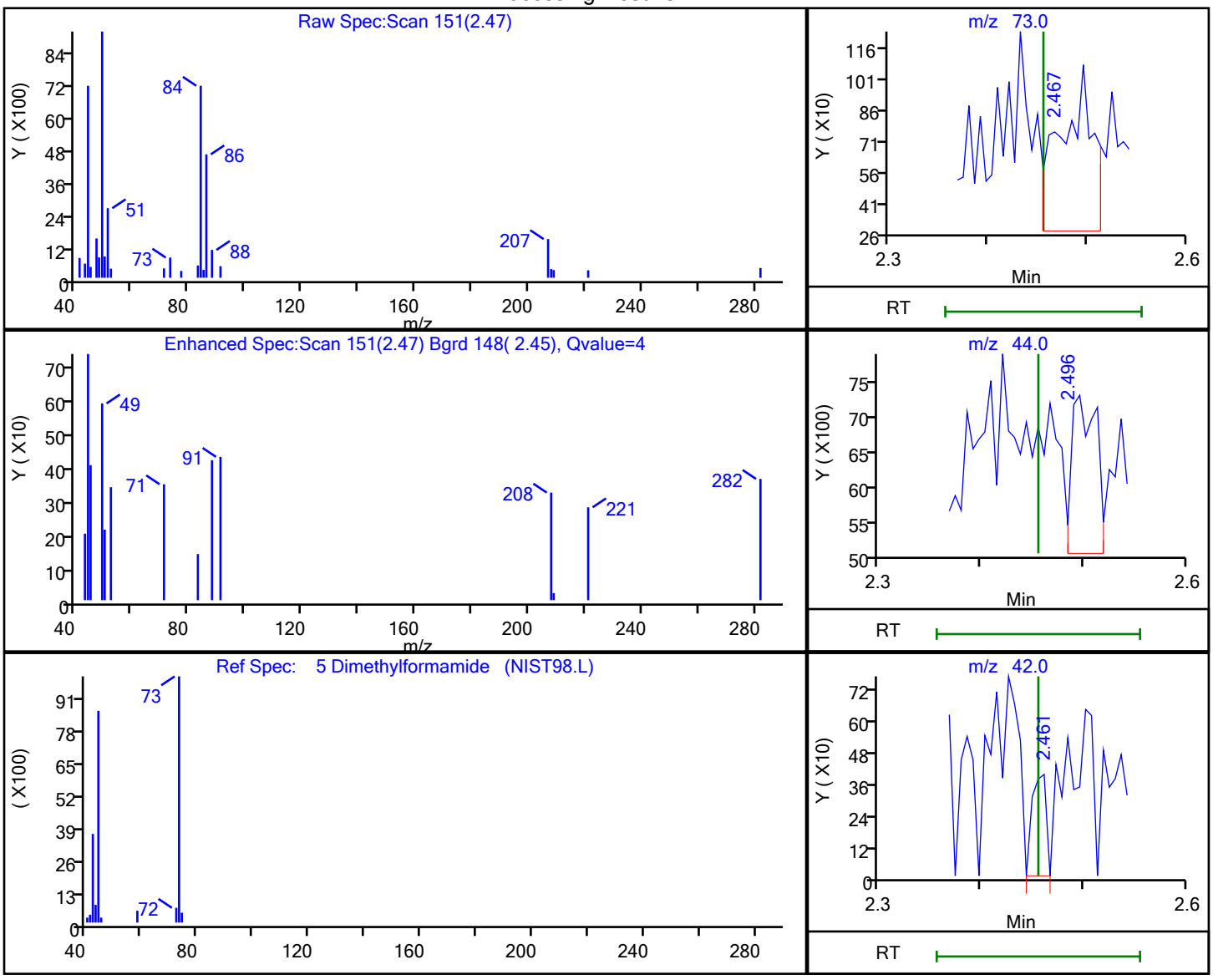
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0702.D
Injection Date: 07-Nov-2022 19:20:30 Instrument ID: HP19760
Lims ID: IC L1
Client ID:
Operator ID: kel10217 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP19760 Limit Group: MSSV - 8270D_E LVI
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

5 Dimethylformamide, CAS: 68-12-2

Processing Results



RT	Mass	Response	Amount
2.47	73.00	1716	0.092005
2.50	44.00	3540	
2.46	42.00	370	

Reviewer: SJ89, 07-Nov-2022 19:50:44
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

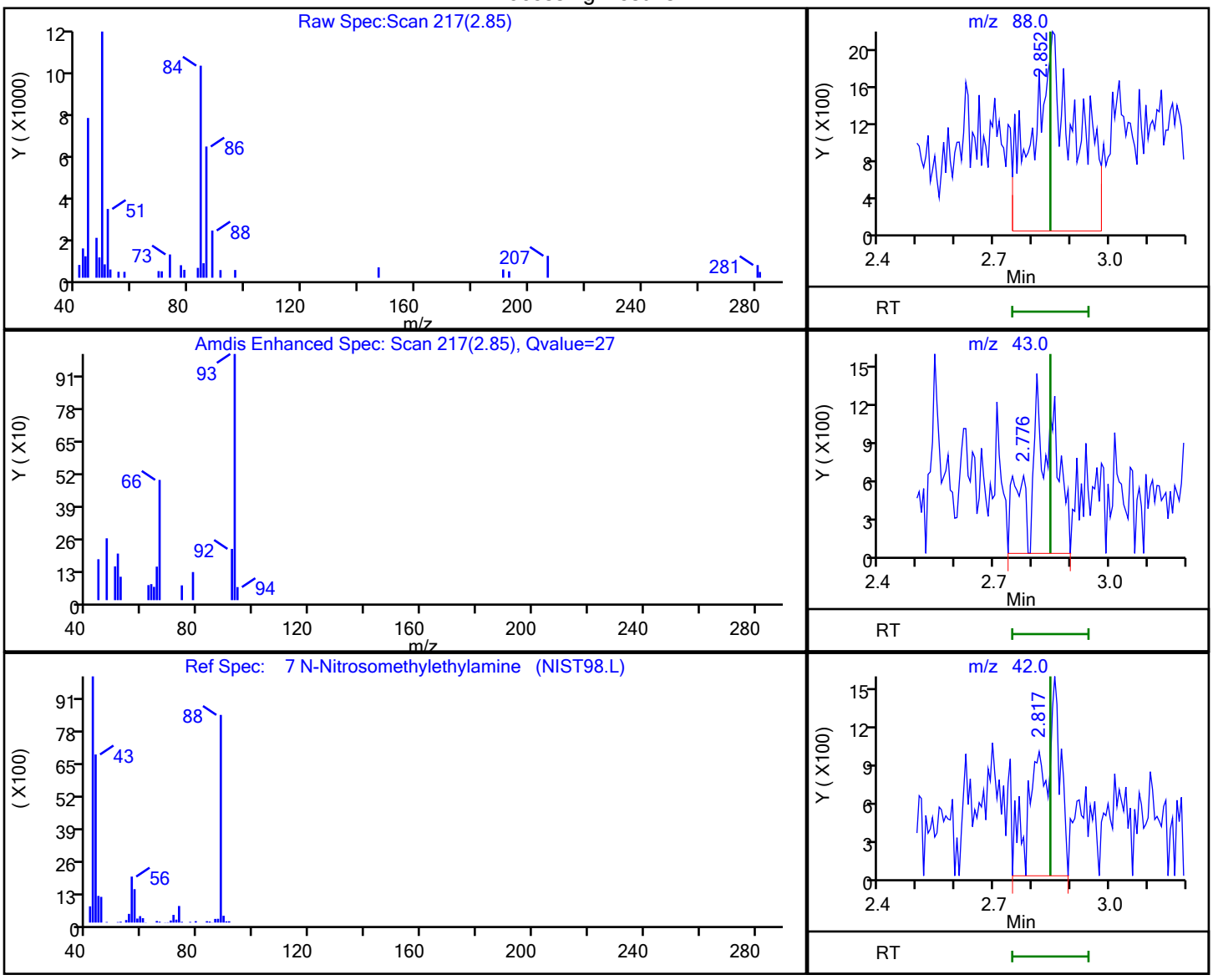
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0702.D				
Injection Date:	07-Nov-2022 19:20:30	Instrument ID:	HP19760		
Lims ID:	IC L1				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP19760	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

7 N-Nitrosomethylethylamine, CAS: 10595-95-6

Processing Results



RT	Mass	Response	Amount
2.85	88.00	16142	0.219918
2.78	43.00	6162	
2.82	42.00	6192	

Reviewer: SJ89, 07-Nov-2022 19:50:48

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

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0703.D
Lims ID: IC L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 07-Nov-2022 19:41:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L2
Misc. Info.: 410-0070576-004
Operator ID: kel10217 Instrument ID: HP19760
Sublist: chrom-MSSemi_HP19760*sub24

Method: \\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\MSSemi_HP19760.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 08-Nov-2022 11:34:26 Calib Date: 08-Nov-2022 01:34:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0720.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1681

First Level Reviewer: SJ89 Date: 07-Nov-2022 20:40:44

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	2 1,4-Dioxane	88	1.902	1.896	0.006	88	6087	0.2500	0.4169	
	3 N-Nitrosodimethylamine	74	2.135	2.123	0.012	90	8357	0.2500	0.3279	
	4 Pyridine	79	2.187	2.164	0.023	94	20532	0.5000	0.5265	
	5 Dimethylformamide	73		2.455				ND	ND	U
	6 2-Picoline	93	2.782	2.764	0.018	84	10354	0.2500	0.2677	
	7 N-Nitrosomethylethylamine	88		2.846				ND	ND	U
	8 Methyl methanesulfonate	80	3.120	3.114	0.006	80	5279	0.2500	0.2304	
$	10 2-Fluorophenol	112	3.260	3.266	-0.006	92	16037	0.5000	0.5190	
	11 N-Nitrosodiethylamine	102	3.499	3.499	0.000	88	3935	0.2500	0.2560	
	12 Ethyl methanesulfonate	109	3.778	3.773	0.005	95	4514	0.2500	0.2681	
	14 Benzaldehyde	77	4.105	4.111	-0.006	95	9651	0.2500	0.2948	
$	17 Phenol-d5	99	4.140	4.140	0.000	92	20362	0.5000	0.4831	
	18 Phenol	94	4.151	4.152	-0.001	49	10163	0.2500	0.2373	a
	16 Aniline	93	4.204	4.204	0.000	93	11319	0.2500	0.2233	
	19 Bis(2-chloroethyl)ether	93	4.262	4.262	0.000	95	9409	0.2500	0.2731	
	20 2-Chlorophenol	128	4.315	4.315	0.000	85	6302	0.2500	0.2266	
	21 1,3-Dichlorobenzene	146	4.466	4.466	0.000	87	7665	0.2500	0.2308	
*	22 1,4-Dichlorobenzene-d4	152	4.519	4.525	-0.006	96	112818	5.00	5.00	
	23 1,4-Dichlorobenzene	146	4.536	4.536	0.000	85	8472	0.2500	0.2511	
	25 Benzyl alcohol	108	4.641	4.641	0.000	88	4957	0.2500	0.2415	
	24 1,2-Dichlorobenzene	146	4.676	4.682	-0.006	83	8565	0.2500	0.2702	
	27 2-Methylphenol	108	4.734	4.740	-0.006	92	7133	0.2500	0.2545	
	28 2,2'-oxybis[1-chloropropane]	45	4.769	4.775	-0.006	91	13109	0.2500	0.3247	
	30 N-Nitrosopyrrolidine	100	4.874	4.874	0.000	56	3679	0.2500	0.2299	
	35 4-Methylphenol	108	4.880	4.886	-0.006	90	8178	0.2500	0.2696	
	32 N-Nitrosodi-n-propylamine	70	4.892	4.898	-0.006	73	7011	0.2500	0.2481	
	31 Acetophenone	105	4.898	4.898	0.000	96	11758	0.2500	0.2471	
	33 N-Nitrosomorpholine	56	4.915	4.915	0.000	85	6060	0.2500	0.2901	
	34 2-Toluidine	106	4.927	4.933	-0.006	95	12753	0.2500	0.2488	
	36 Hexachloroethane	117	5.002	5.008	-0.006	89	3926	0.2500	0.2716	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 37 Nitrobenzene-d5	82	5.043	5.043	0.000	87	19765	0.5000	0.4939	
38 Nitrobenzene	77	5.061	5.061	0.000	83	10401	0.2500	0.2511	
39 N-Nitrosopiperidine	114	5.206	5.207	-0.001	79	3534	0.2500	0.2367	
40 Isophorone	82	5.288	5.288	0.000	97	15128	0.2500	0.2236	
41 2-Nitrophenol	139	5.364	5.364	0.000	85	3594	0.2500	0.2684	
42 2,4-Dimethylphenol	107	5.393	5.399	-0.006	93	7334	0.2500	0.2290	
43 o,o',o''-Triethylphosphorothioat	198	5.469	5.469	0.000	87	3771	0.2500	0.2159	
44 Bis(2-chloroethoxy)methane	93	5.492	5.498	-0.006	97	11515	0.2500	0.2758	
47 2,4-Dichlorophenol	162	5.585	5.591	-0.006	89	5037	0.2500	0.2085	
48 1,2,4-Trichlorobenzene	180	5.673	5.679	-0.006	91	8283	0.2500	0.2759	
* 49 Naphthalene-d8	136	5.731	5.731	0.000	99	386823	5.00	5.00	
50 Naphthalene	128	5.749	5.754	-0.006	96	21990	0.2500	0.2665	
51 Alpha-Terpineol	59	5.754	5.760	-0.006	88	6776	0.2500	0.2549	
52 4-Chloroaniline	127	5.795	5.801	-0.006	89	8003	0.2500	0.2475	
53 2,6-Dichlorophenol	162	5.807	5.807	0.000	91	5424	0.2500	0.2256	
54 Hexachloropropene	213	5.836	5.836	0.000	86	6293	0.2500	0.2606	
55 Hexachlorobutadiene	225	5.871	5.871	0.000	93	4936	0.2500	0.2388	
56 Quinoline	129	6.069	6.069	0.000	93	13306	0.2500	0.2633	
57 Caprolactam	113	6.104	6.110	-0.006	90	2071	0.2500	0.2715	
59 N-Nitrosodi-n-butylamine	84	6.122	6.122	0.000	87	8962	0.2500	0.2878	
58 p-Phenylene diamine	108	6.133	6.133	0.000	91	5790	0.2500	0.2037	
60 4-Chloro-3-methylphenol	107	6.250	6.256	-0.006	88	6485	0.2500	0.2462	
61 Safrole, Total	162	6.326	6.331	-0.005	84	5639	0.2500	0.2512	
62 2-Methylnaphthalene	142	6.413	6.413	0.000	93	13003	0.2500	0.2535	
63 1-Methylnaphthalene	142	6.506	6.506	0.000	95	13811	0.2500	0.2656	
64 Hexachlorocyclopentadiene	237	6.559	6.559	0.000	91	6975	0.2500	0.2658	
65 1,2,4,5-Tetrachlorobenzene	216	6.565	6.570	-0.006	95	8720	0.2500	0.2428	
66 Isosafrole Peak 1	162	6.605	6.605	0.000	8	765	0.0400	0.0312	a
68 2,4,6-Trichlorophenol	196	6.669	6.675	-0.006	88	4992	0.2500	0.2551	
69 2,4,5-Trichlorophenol	196	6.704	6.705	-0.001	87	4145	0.2500	0.1944	
$ 70 2-Fluorobiphenyl (Surr)	172	6.757	6.763	-0.006	98	36457	0.5000	0.5285	
71 Isosafrole Peak 2	162	6.821	6.821	0.000	90	6323	0.2100	0.2230	
77 1,1'-Biphenyl	154	6.850	6.856	-0.006	93	19931	0.2500	0.2768	
78 2-Chloronaphthalene	162	6.873	6.874	-0.001	42	12973	0.2500	0.2319	a
79 1-Chloronaphthalene	162	6.891	6.897	-0.006	97	16390	0.2500	0.3009	
80 Phenyl ether	170	6.955	6.955	0.000	86	10745	0.2500	0.2624	
81 2-Nitroaniline	138	6.961	6.967	-0.006	44	3538	0.2500	0.2488	
82 1,4-Naphthoquinone	158	7.037	7.043	-0.006	85	4664	0.2500	0.2363	
83 1,4-Dinitrobenzene	168	7.095	7.101	-0.006	81	1919	0.2500	0.2334	
84 Dimethyl phthalate	163	7.142	7.142	0.000	98	15480	0.2500	0.2511	
85 1,3-Dinitrobenzene	168	7.165	7.165	0.000	79	2426	0.2500	0.2578	
86 2,6-Dinitrotoluene	165	7.194	7.200	-0.006	79	3066	0.2500	0.2268	
87 Acenaphthylene	152	7.264	7.264	0.000	99	18863	0.2500	0.2447	
88 3-Nitroaniline	138	7.351	7.352	-0.001	80	2306	0.2500	0.1842	
* 89 Acenaphthene-d10	164	7.398	7.398	0.000	95	235118	5.00	5.00	
90 Acenaphthene	153	7.427	7.433	-0.006	95	14521	0.2500	0.2601	
91 2,4-Dinitrophenol	184	7.450	7.451	-0.001	81	16431	2.50	1.79	
93 4-Nitrophenol	109	7.497	7.503	-0.006	80	13121	1.50	1.37	
92 Pentachlorobenzene	250	7.550	7.556	-0.006	95	7586	0.2500	0.2498	
95 2,4-Dinitrotoluene	165	7.573	7.579	-0.006	83	3751	0.2500	0.2162	
94 Dibenzofuran	168	7.590	7.596	-0.006	98	20970	0.2500	0.2585	
96 1-Naphthylamine	143	7.666	7.666	0.000	97	10459	0.2500	0.2150	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
97 2,3,4,6-Tetrachlorophenol	232	7.701	7.707	-0.006	70	4437	0.2500	0.2255	
98 2-Naphthylamine	143	7.742	7.742	0.000	95	12970	0.2500	0.2415	
99 Diethyl phthalate	149	7.812	7.818	-0.006	96	13966	0.2500	0.2344	
101 Thionazin	107	7.888	7.894	-0.006	77	2417	0.2500	0.2377	
100 Fluorene	166	7.917	7.923	-0.006	96	17081	0.2500	0.2652	
102 4-Chlorophenyl phenyl ether	204	7.923	7.923	0.000	80	9011	0.2500	0.2539	
103 N-Nitro-o-toluidine	152	7.923	7.929	-0.006	66	3183	0.2500	0.2028	M
104 4-Nitroaniline	138	7.923	7.929	-0.006	65	2926	0.2500	0.2143	
105 4,6-Dinitro-2-methylphenol	198	7.958	7.958	0.000	82	12518	1.50	1.03	
106 N-Nitrosodiphenylamine	169	8.033	8.033	0.000	62	10396	0.2125	0.2010	
107 1,2-Diphenylhydrazine	77	8.068	8.074	-0.006	41	19929	0.2500	0.2572	
$ 108 2,4,6-Tribromophenol	330	8.144	8.144	0.000	91	5387	0.5000	0.4771	
109 Sulfotepp	97	8.185	8.185	0.000	76	2588	0.2500	0.2249	
110 1,3,5-Trinitrobenzene	213	8.266	8.272	-0.006	81	1459	0.2500	0.7706	
111 cis-Diallate	86	8.307	8.307	0.000	0	6401	0.1850	0.2026	
112 Phorate	75	8.319	8.319	0.000	92	9482	0.2500	0.2142	
113 Phenacetin	108	8.313	8.325	-0.012	74	6004	0.2500	0.2160	
114 4-Bromophenyl phenyl ether	248	8.383	8.389	-0.006	65	6270	0.2500	0.2770	
115 trans-Diallate	86	8.395	8.395	0.000	0	3781	0.0650	0.1182	
116 Hexachlorobenzene	284	8.430	8.436	-0.006	94	7042	0.2500	0.2740	
117 Dimethoate	87	8.470	8.476	-0.006	92	4872	0.2500	0.1900	
118 Atrazine	200	8.540	8.541	-0.001	90	4851	0.2500	0.2471	
119 Pentachlorophenol	266	8.616	8.622	-0.006	93	16858	1.25	1.17	
121 4-Aminobiphenyl	169	8.628	8.634	-0.006	90	16544	0.2500	0.2332	
120 Pentachloronitrobenzene	237	8.634	8.634	0.000	49	2323	0.2500	0.2142	
122 Pronamide	173	8.686	8.686	0.000	84	6480	0.2500	0.2475	
125 Dinoseb	211	8.797	8.803	-0.006	60	2931	0.2500	0.7375	
* 123 Phenanthrene-d10	188	8.809	8.809	0.000	97	470704	5.00	5.00	
126 Disulfoton	88	8.803	8.814	-0.011	90	15678	0.2500	0.3507	
124 Phenanthrene	178	8.826	8.832	-0.006	95	26331	0.2500	0.2631	
127 Anthracene	178	8.878	8.879	-0.001	96	26434	0.2500	0.2720	
128 Carbazole	167	9.030	9.030	0.000	97	19124	0.2500	0.2308	
129 Methyl parathion	109	9.164	9.170	-0.006	93	2959	0.2500	0.7332	
130 Di-n-butyl phthalate	149	9.374	9.374	0.000	99	18949	0.2500	0.2133	
132 Ethyl Parathion	109	9.543	9.543	0.000	78	1969	0.2500	0.1794	
131 4-Nitroquinoline-1-oxide	190	9.560	9.566	-0.006	70	1376	0.2500	2.06	
S 67 Diallate	86				0		0.2500	0.3208	
134 Octachlorostyrene	308	9.776	9.782	-0.006	82	2767	0.2500	0.2825	
135 Isodrin	193	9.823	9.823	0.000	83	4213	0.2500	0.3231	
136 Fluoranthene	202	9.957	9.963	-0.006	97	26843	0.2500	0.2485	
137 Benzidine	184	10.091	10.097	-0.006	99	37205	0.7500	0.5812	
* 138 Pyrene-d10 (IS)	212	10.161	10.161	0.000	97	488822	5.00	5.00	
139 Pyrene	202	10.178	10.178	0.000	97	31092	0.2500	0.2620	
$ 142 p-Terphenyl-d14	244	10.336	10.342	-0.006	98	45915	0.5000	0.5126	
145 p-Dimethylamino azobenzene	225	10.476	10.481	-0.005	85	3153	0.2500	0.9275	
146 Chlorobenzilate	139	10.528	10.534	-0.006	90	4606	0.2500	0.1706	
148 3,3'-Dimethylbenzidine	212	10.831	10.837	-0.006	98	12074	0.2500	0.1935	
150 Butyl benzyl phthalate	149	10.860	10.860	0.000	92	7408	0.2500	0.1915	
151 2-Acetylaminofluorene	181	11.105	11.111	-0.006	93	5087	0.2500	0.1589	
153 3,3'-Dichlorobenzidine	252	11.449	11.455	-0.006	72	7744	0.2500	0.1939	
154 4,4'-Methylene bis(2-chloroani	231	11.455	11.461	-0.006	63	3501	0.2500	0.1632	
152 Benzo[a]anthracene	228	11.466	11.472	-0.006	96	25197	0.2500	0.2356	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
155 Chrysene	228	11.513	11.513	0.000	96	26210	0.2500	0.2369	
156 Bis(2-ethylhexyl) phthalate	149	11.548	11.548	0.000	96	8972	0.2500	0.2060	M
157 6-Methylchrysene	242	12.090	12.096	-0.006	96	17502	0.2500	0.2414	
158 Di-n-octyl phthalate	149	12.422	12.428	-0.006	98	13904	0.2500	0.2327	
159 Benzo[b]fluoranthene	252	12.889	12.895	-0.006	94	23662	0.2500	0.2353	
160 7,12-Dimethylbenz(a)anthracene	256	12.889	12.895	-0.006	71	8848	0.2500	0.2184	
161 Benzo[k]fluoranthene	252	12.929	12.935	-0.006	95	21163	0.2500	0.2078	
162 Benzo[a]pyrene	252	13.355	13.361	-0.006	75	17320	0.2500	0.2177	M
* 163 Perylene-d12	264	13.436	13.442	-0.006	99	382075	5.00	5.00	
164 3-Methylcholanthrene	268	13.874	13.880	-0.006	84	10076	0.2500	0.2336	
165 Dibenz[a,h]acridine	279	14.672	14.678	-0.006	89	14108	0.2500	0.2280	
166 Dibenz[a,j]acridine	279	14.736	14.742	-0.006	36	14733	0.2500	0.2080	a
167 Indeno[1,2,3-cd]pyrene	276	14.975	14.981	-0.006	97	15490	0.2500	0.2209	
168 Dibenz(a,h)anthracene	278	15.016	15.022	-0.006	86	18836	0.2500	0.2277	
169 Benzo[g,h,i]perylene	276	15.360	15.366	-0.006	97	20280	0.2500	0.2354	
S 170 Aramite, Total	185		44.000				0.2500	ND	
S 173 Dinitrotoluene	165				0			0.4429	
S 177 Isosafrole	162				0		0.2500	0.2542	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

MSS_RV8270_2_00027 Amount Added: 1.00 Units: mL

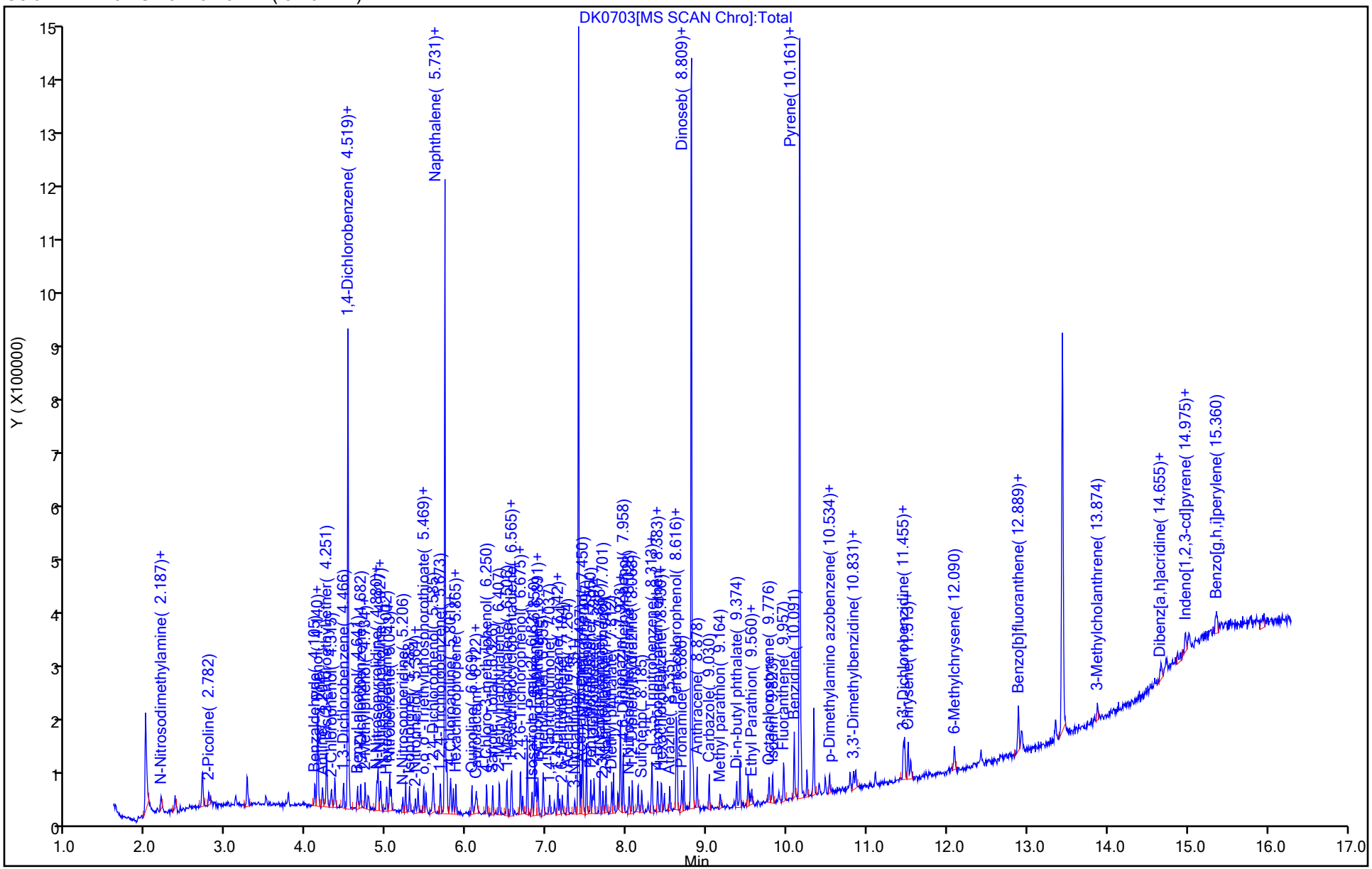
Report Date: 08-Nov-2022 11:34:27 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0703.D

Injection Date:	07-Nov-2022 19:41:30	Instrument ID:	HP19760	Operator ID:	kel10217
Lims ID:	IC L2			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	MSSemi_HP19760	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

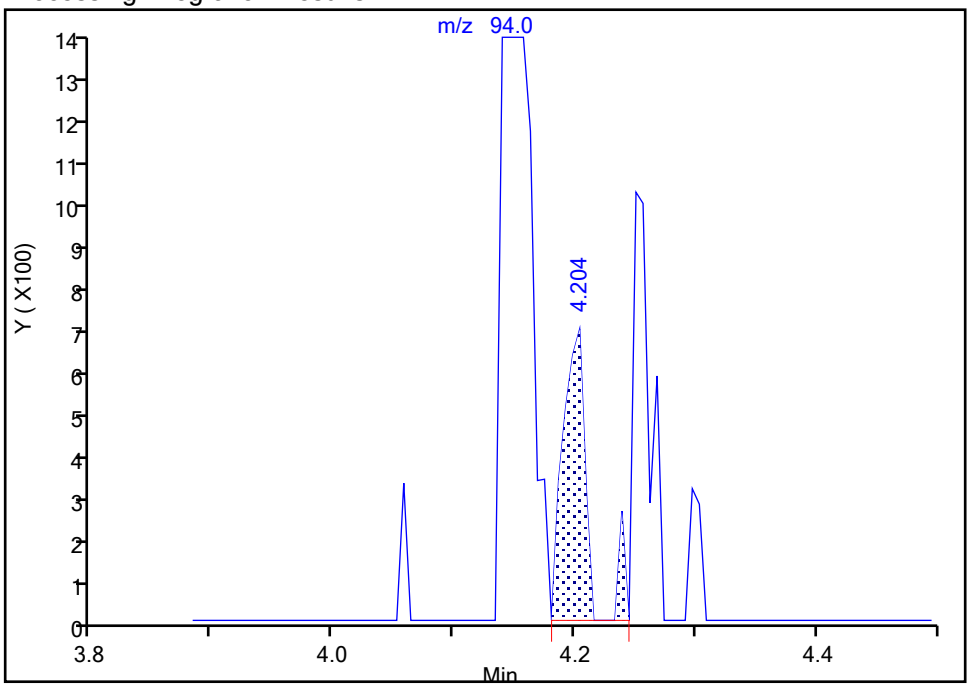
Data File:	\\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0703.D				
Injection Date:	07-Nov-2022 19:41:30	Instrument ID:	HP19760		
Lims ID:	IC L2				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP19760	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

18 Phenol, CAS: 108-95-2

Signal: 1

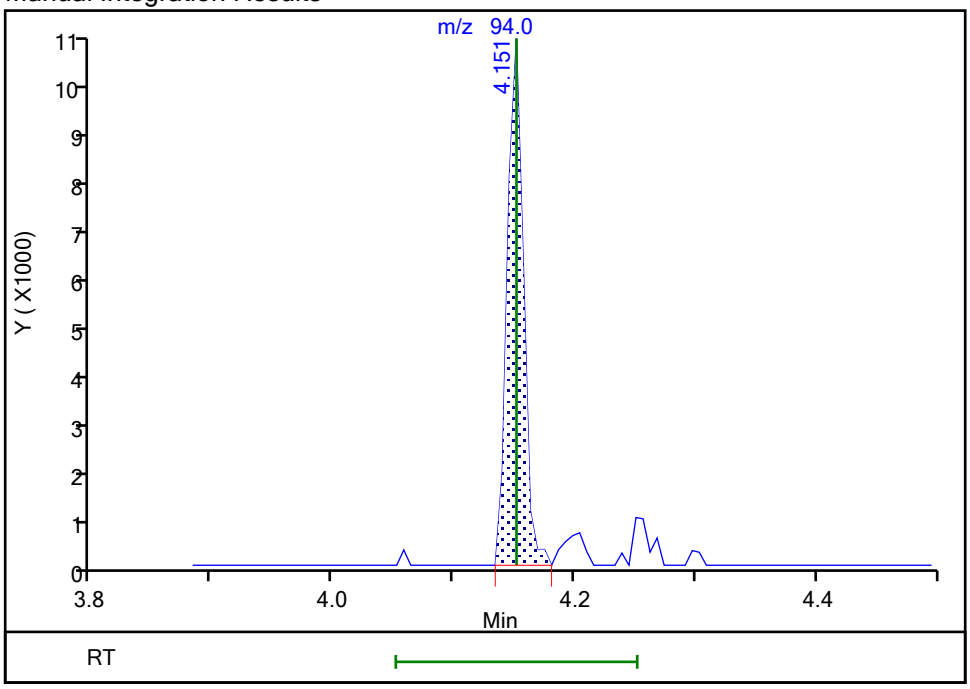
Processing Integration Results

RT: 4.20
Area: 926
Amount: 0.026986
Amount Units: ug/ml



Manual Integration Results

RT: 4.15
Area: 10163
Amount: 0.237325
Amount Units: ug/ml



Reviewer: SJ89, 07-Nov-2022 20:39:24

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

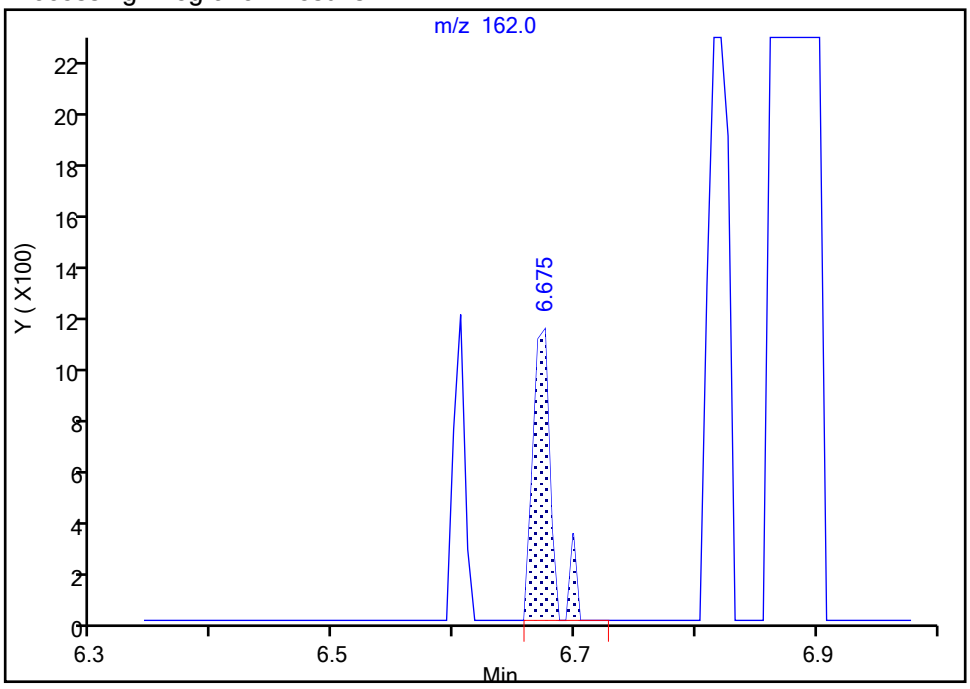
Data File:	\\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0703.D				
Injection Date:	07-Nov-2022 19:41:30	Instrument ID:	HP19760		
Lims ID:	IC L2				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP19760	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

66 Isosafrole Peak 1, CAS: 120-58-1

Signal: 1

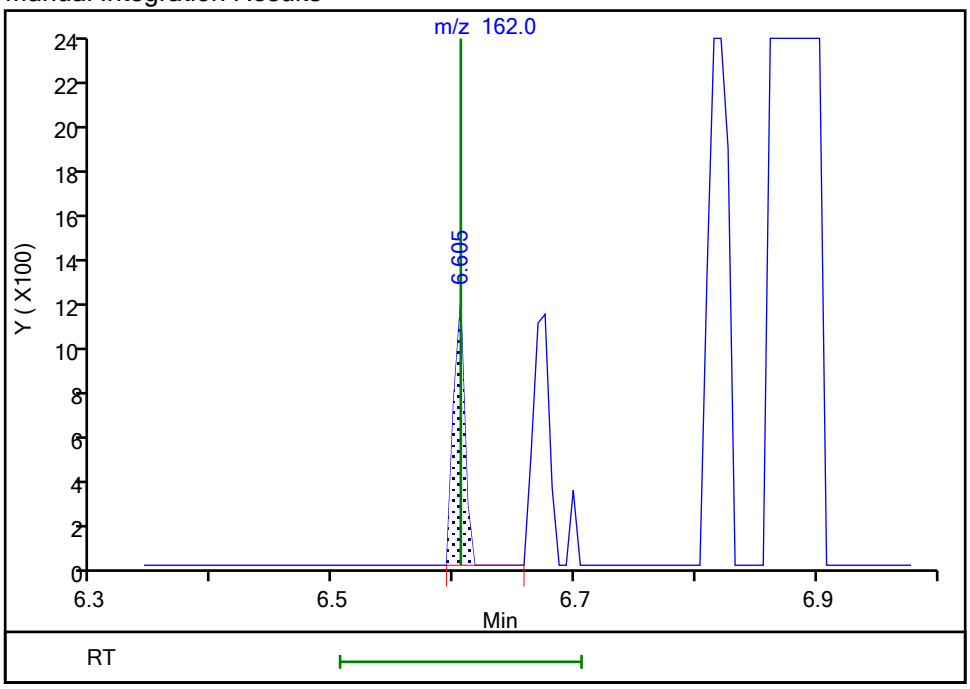
Processing Integration Results

RT: 6.68
Area: 1184
Amount: 0.046774
Amount Units: ug/ml



Manual Integration Results

RT: 6.61
Area: 765
Amount: 0.031218
Amount Units: ug/ml



Reviewer: SJ89, 07-Nov-2022 20:39:46

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

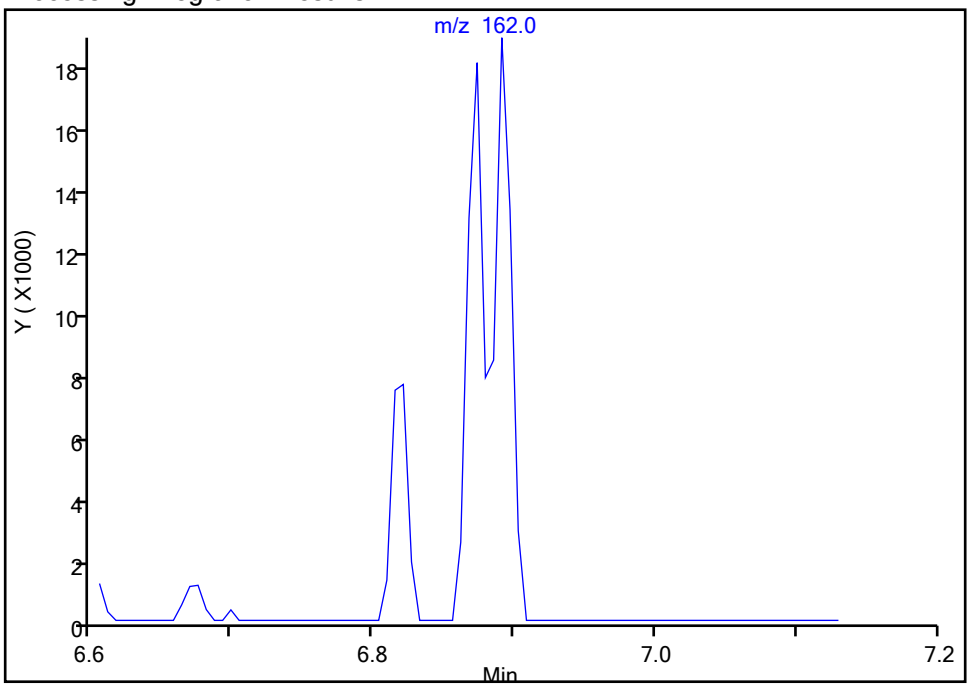
Data File:	\\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0703.D				
Injection Date:	07-Nov-2022 19:41:30	Instrument ID:	HP19760		
Lims ID:	IC L2				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP19760	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

78 2-Chloronaphthalene, CAS: 91-58-7

Signal: 1

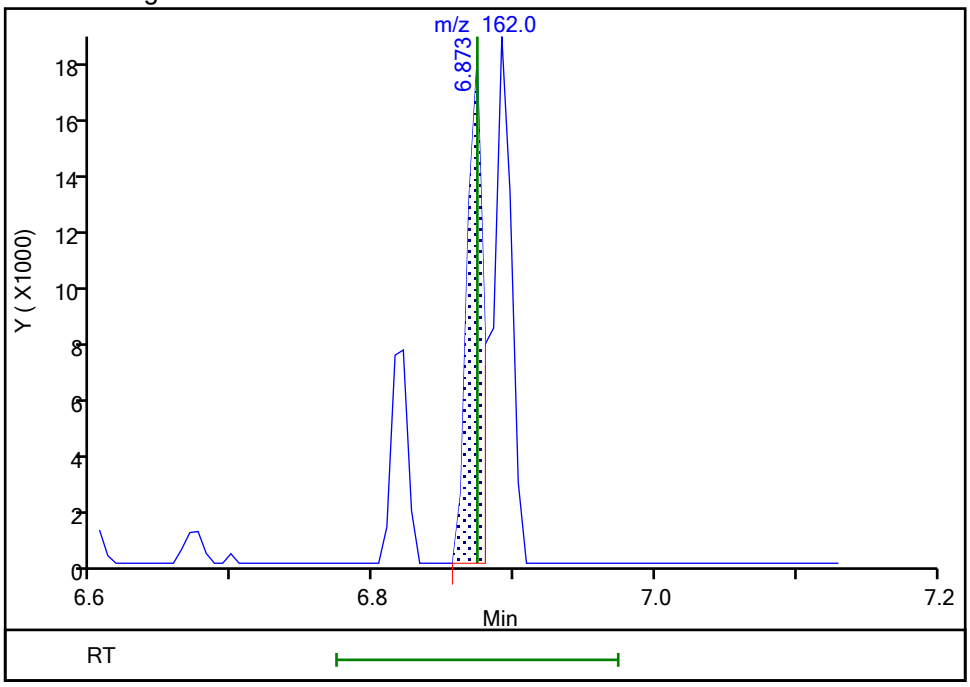
Not Detected
Expected RT: 6.87

Processing Integration Results



Manual Integration Results

RT: 6.87
Area: 12973
Amount: 0.231919
Amount Units: ug/ml



Reviewer: SJ89, 07-Nov-2022 20:39:52
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

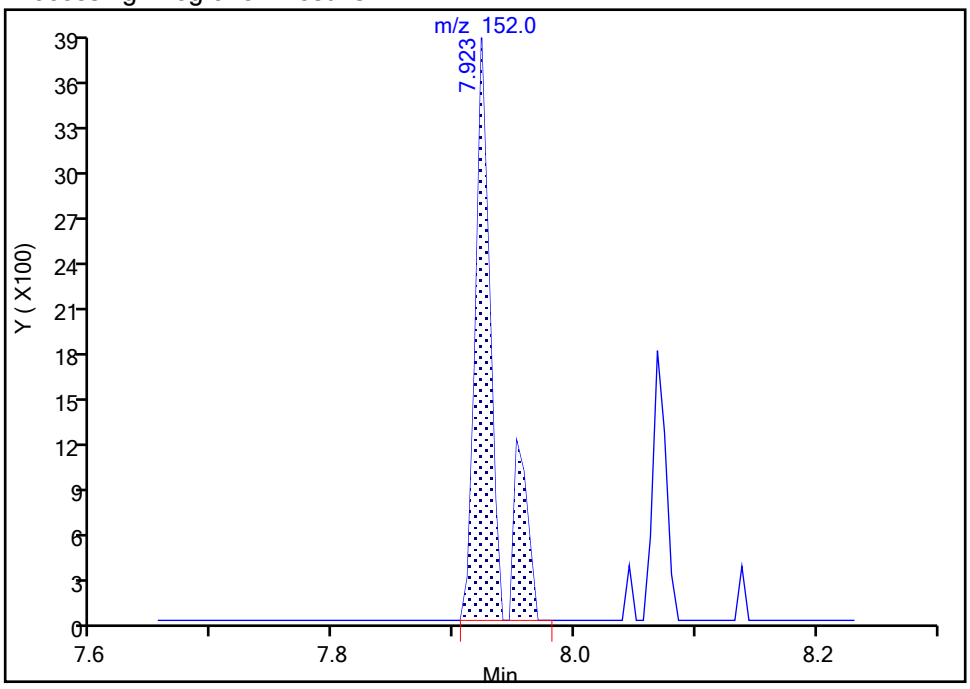
Data File:	\\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0703.D				
Injection Date:	07-Nov-2022 19:41:30	Instrument ID:	HP19760		
Lims ID:	IC L2				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP19760	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

103 N-Nitro-o-toluidine, CAS: 99-55-8

Signal: 1

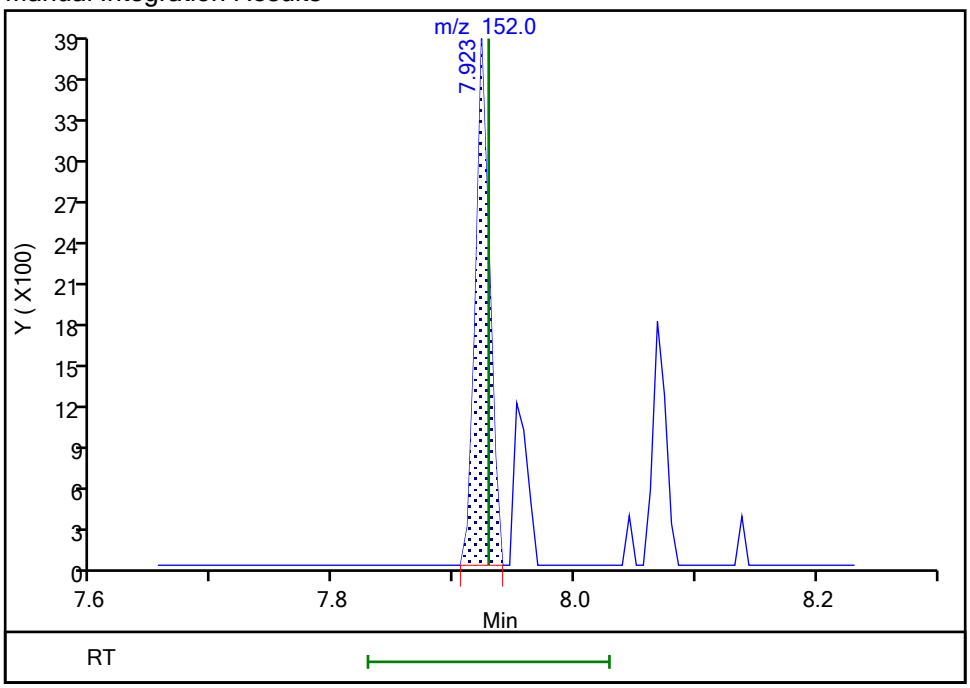
Processing Integration Results

RT: 7.92
Area: 4117
Amount: 0.243093
Amount Units: ug/ml



Manual Integration Results

RT: 7.92
Area: 3183
Amount: 0.202846
Amount Units: ug/ml



Reviewer: SJ89, 07-Nov-2022 20:40:12

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

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

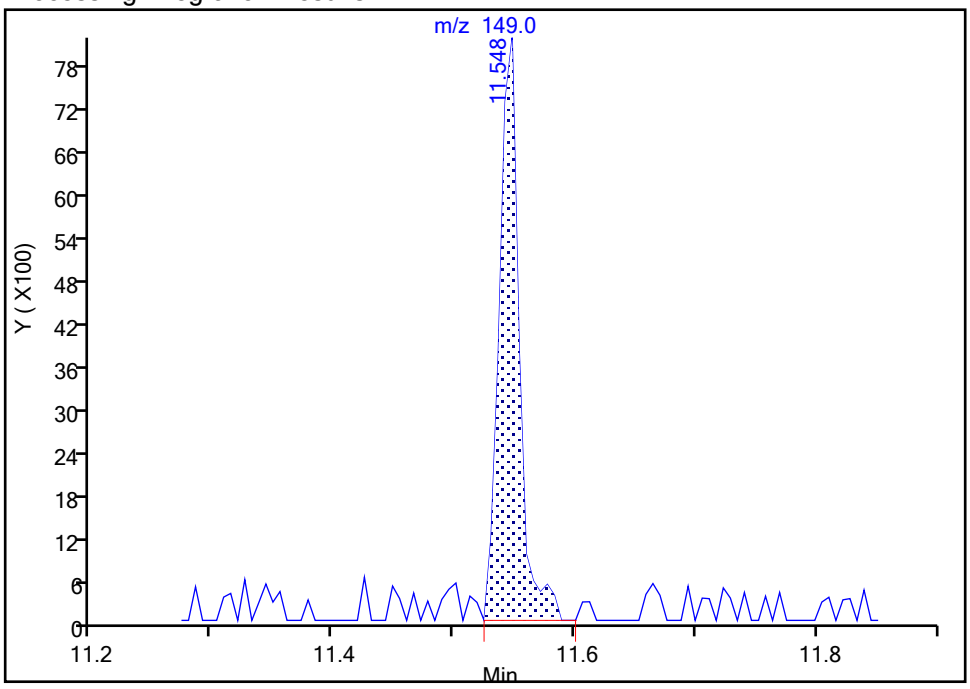
Data File:	\\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0703.D				
Injection Date:	07-Nov-2022 19:41:30	Instrument ID:	HP19760		
Lims ID:	IC L2				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP19760	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

156 Bis(2-ethylhexyl) phthalate, CAS: 117-81-7

Signal: 1

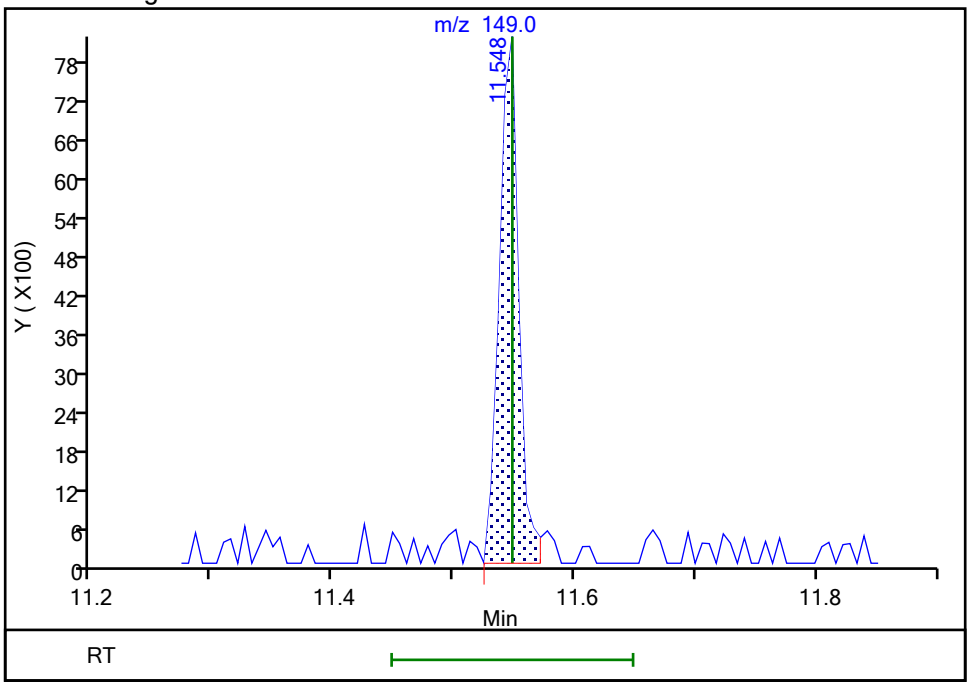
Processing Integration Results

RT: 11.55
Area: 9338
Amount: 0.249331
Amount Units: ug/ml



Manual Integration Results

RT: 11.55
Area: 8972
Amount: 0.205977
Amount Units: ug/ml



Reviewer: SJ89, 07-Nov-2022 22:52:37
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

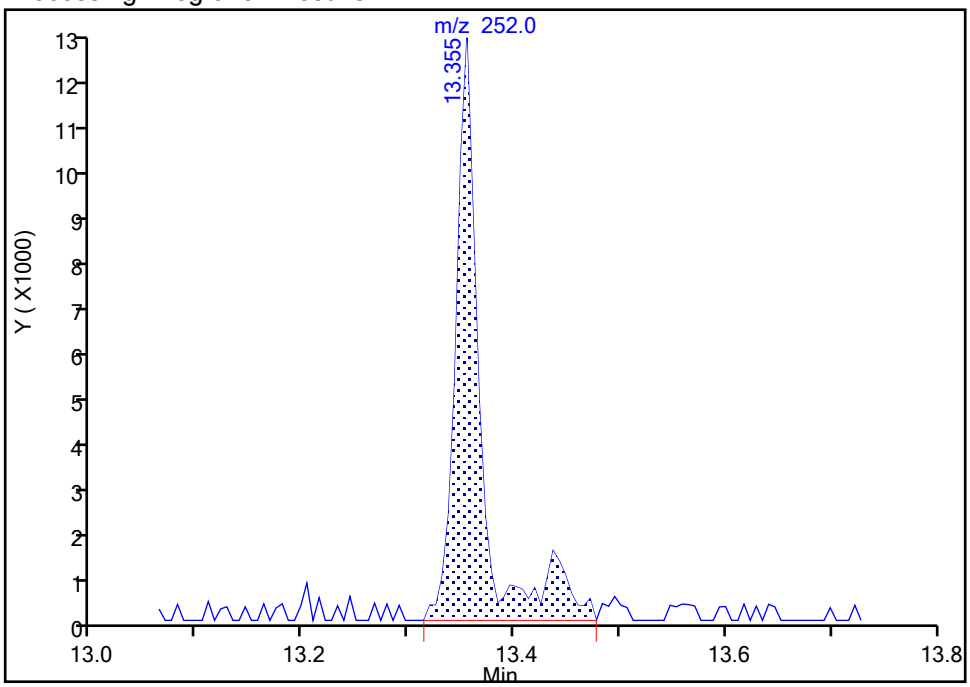
Data File:	\\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0703.D				
Injection Date:	07-Nov-2022 19:41:30	Instrument ID:	HP19760		
Lims ID:	IC L2				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP19760	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

162 Benzo[a]pyrene, CAS: 50-32-8

Signal: 1

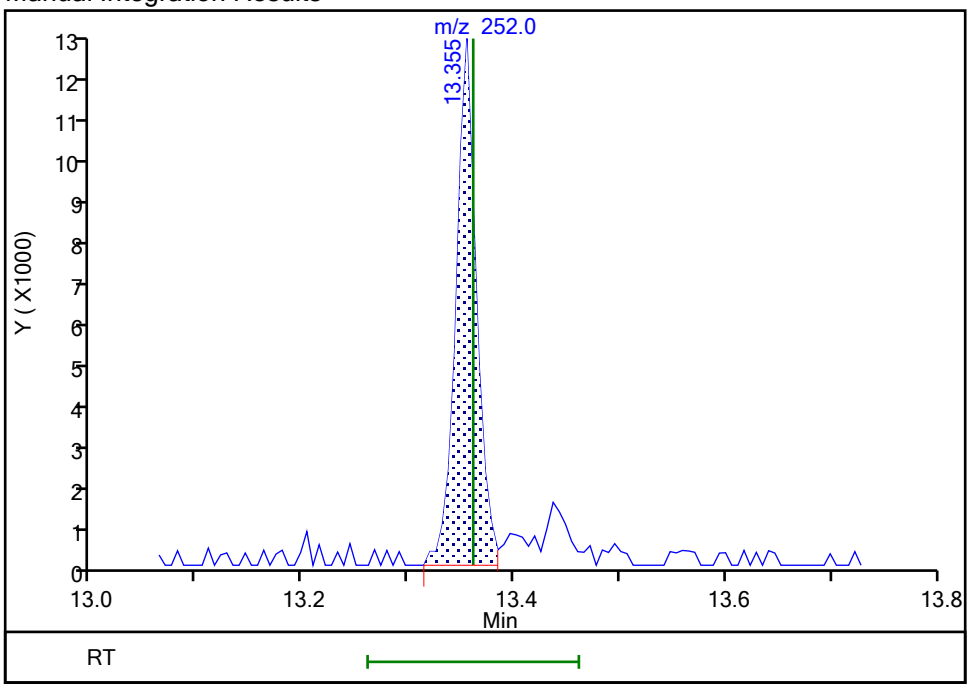
Processing Integration Results

RT: 13.35
Area: 21119
Amount: 0.248673
Amount Units: ug/ml



Manual Integration Results

RT: 13.35
Area: 17320
Amount: 0.217723
Amount Units: ug/ml



Reviewer: SJ89, 07-Nov-2022 20:40:30

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

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

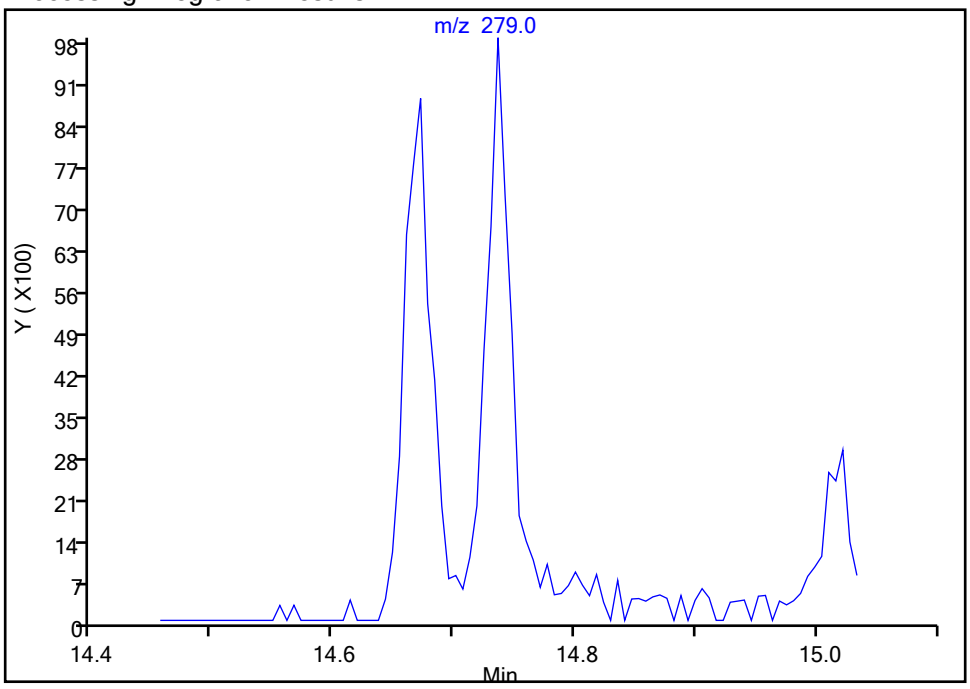
Data File:	\\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0703.D				
Injection Date:	07-Nov-2022 19:41:30	Instrument ID:	HP19760		
Lims ID:	IC L2				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP19760	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

166 Dibenz[a,j]acridine, CAS: 224-42-0

Signal: 1

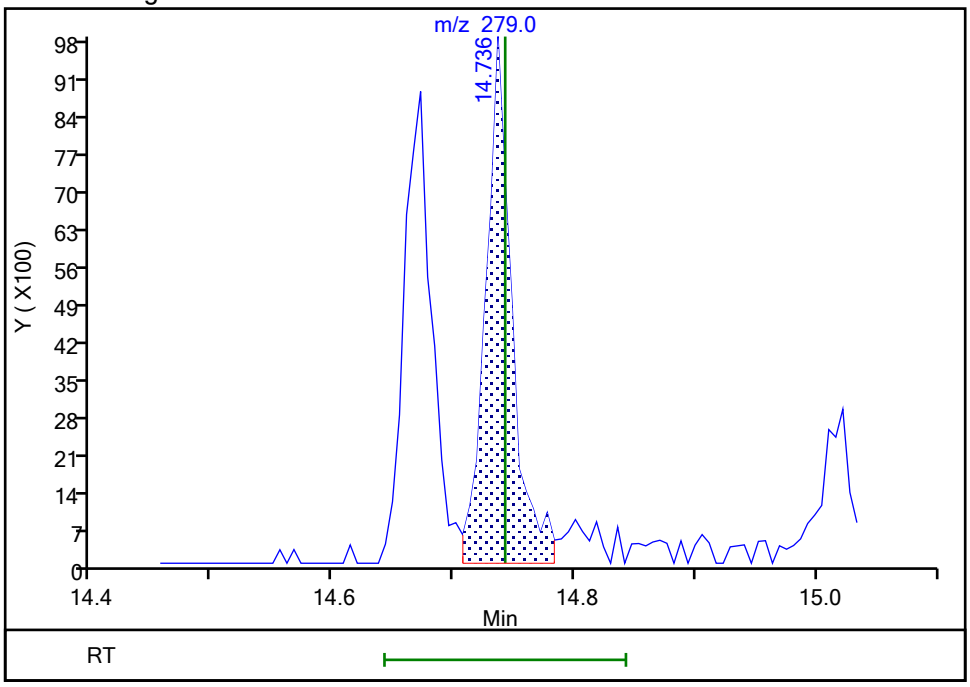
Not Detected
Expected RT: 14.74

Processing Integration Results



Manual Integration Results

RT: 14.74
Area: 14733
Amount: 0.207987
Amount Units: ug/ml



Reviewer: SJ89, 07-Nov-2022 20:40:36
Audit Action: Assigned Compound ID Audit Reason: Split Peak

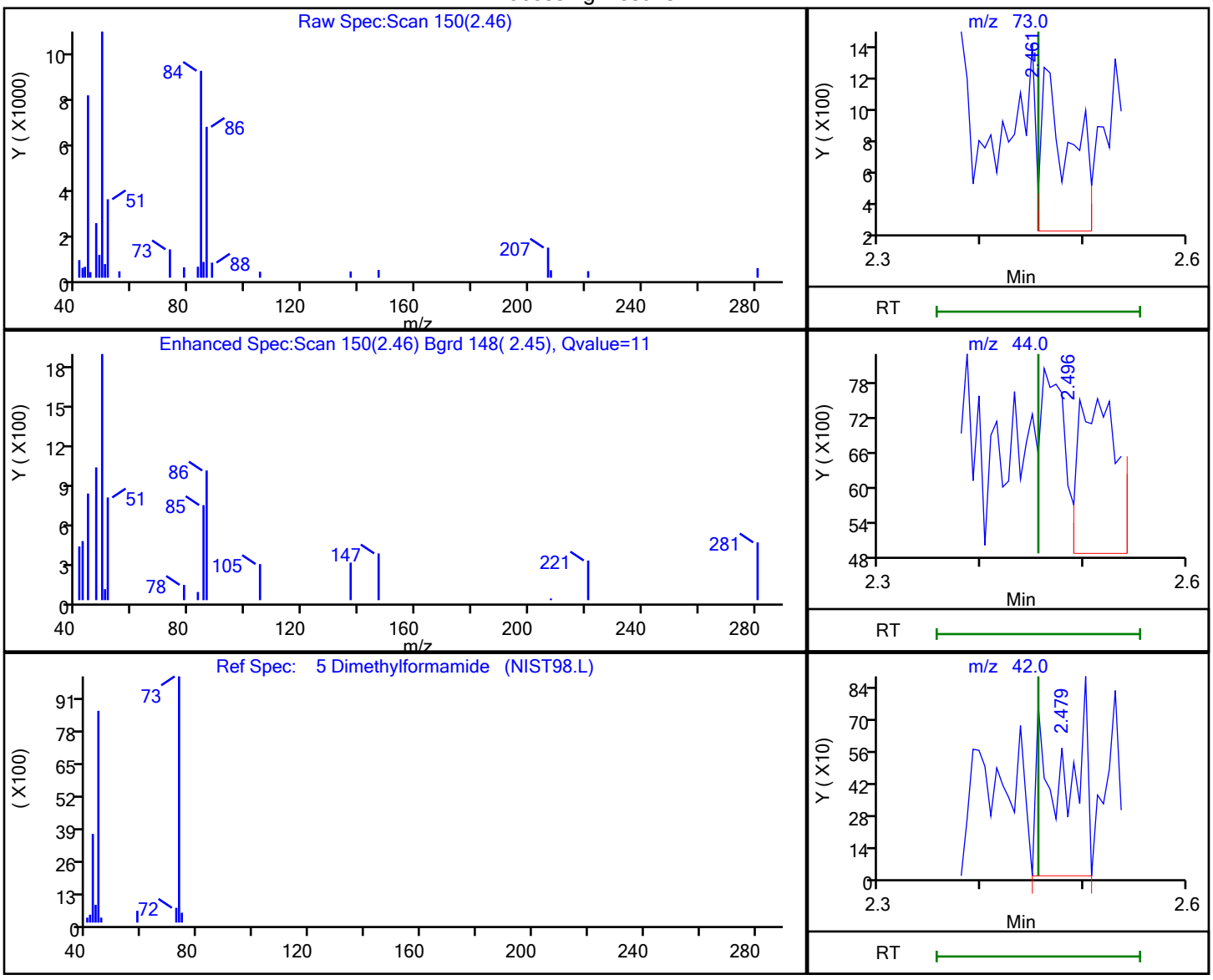
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0703.D				
Injection Date:	07-Nov-2022 19:41:30	Instrument ID:	HP19760		
Lims ID:	IC L2				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP19760	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

5 Dimethylformamide, CAS: 68-12-2

Processing Results



RT	Mass	Response	Amount
2.46	73.00	1811	0.095990
2.50	44.00	6530	
2.48	42.00	1529	

Reviewer: SJ89, 07-Nov-2022 20:39:11

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

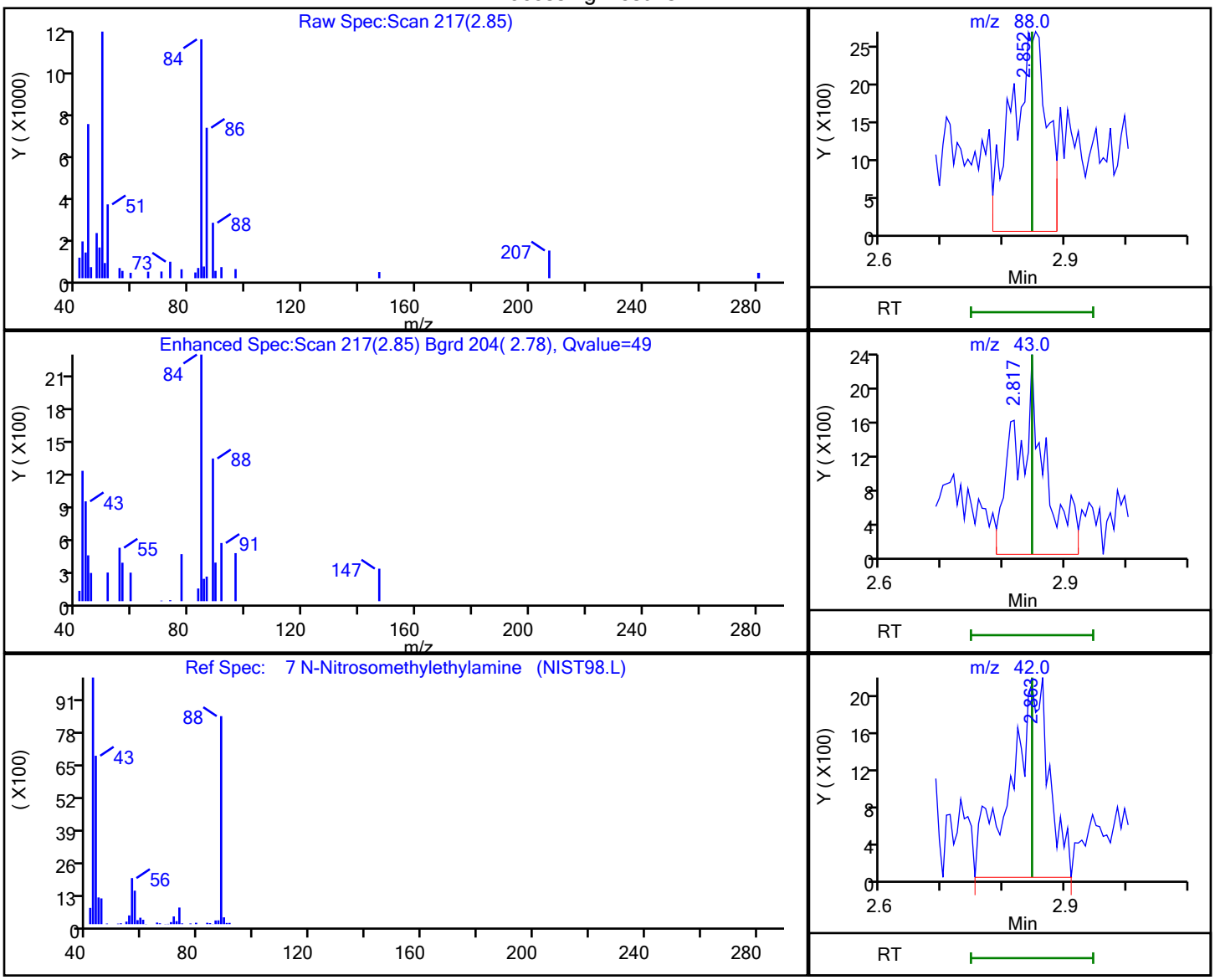
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0703.D				
Injection Date:	07-Nov-2022 19:41:30	Instrument ID:	HP19760		
Lims ID:	IC L2				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP19760	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

7 N-Nitrosomethylethylamine, CAS: 10595-95-6

Processing Results



RT	Mass	Response	Amount
2.85	88.00	10342	0.410818
2.82	43.00	7388	
2.86	42.00	9188	

Reviewer: SJ89, 07-Nov-2022 20:39:18

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

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0704.D
Lims ID: IC L8
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 07-Nov-2022 20:02:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L8
Misc. Info.: 410-0070576-005
Operator ID: kel10217 Instrument ID: HP19760
Sublist: chrom-MSSemi_HP19760*sub24

Method: \\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\MSSemi_HP19760.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 08-Nov-2022 11:34:35 Calib Date: 08-Nov-2022 01:34:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0720.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1681

First Level Reviewer: SJ89 Date: 07-Nov-2022 20:42:25

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	2 1,4-Dioxane	88	1.890	1.896	-0.006	93	454635	30.0	30.4	
	3 N-Nitrosodimethylamine	74	2.117	2.123	-0.006	94	739971	30.0	28.3	
	4 Pyridine	79	2.158	2.164	-0.006	96	2354725	60.0	58.9	
	5 Dimethylformamide	73	2.450	2.455	-0.005	93	813545	30.0	32.3	
	6 2-Picoline	93	2.764	2.764	0.000	90	1206631	30.0	30.4	
	7 N-Nitrosomethylethylamine	88	2.846	2.846	0.000	93	522562	30.0	29.5	
	8 Methyl methanesulfonate	80	3.114	3.114	0.000	86	739509	30.0	31.5	
$	10 2-Fluorophenol	112	3.271	3.266	0.005	93	1946907	60.0	61.4	
	11 N-Nitrosodiethylamine	102	3.499	3.499	0.000	96	486736	30.0	30.9	
	12 Ethyl methanesulfonate	109	3.779	3.773	0.006	98	533227	30.0	30.9	
	14 Benzaldehyde	77	4.111	4.111	0.000	94	885548	30.0	26.4	
$	17 Phenol-d5	99	4.146	4.140	0.006	95	2645298	60.0	61.2	
	18 Phenol	94	4.157	4.152	0.005	94	1348745	30.0	30.7	
	16 Aniline	93	4.204	4.204	0.000	95	1616273	30.0	31.1	
	19 Bis(2-chloroethyl)ether	93	4.262	4.262	0.000	94	1094512	30.0	31.0	
	20 2-Chlorophenol	128	4.315	4.315	0.000	92	887505	30.0	31.1	
	21 1,3-Dichlorobenzene	146	4.466	4.466	0.000	94	1022844	30.0	30.0	
*	22 1,4-Dichlorobenzene-d4	152	4.519	4.525	-0.006	88	115727	5.00	5.00	
	23 1,4-Dichlorobenzene	146	4.536	4.536	0.000	89	1032815	30.0	29.8	
	25 Benzyl alcohol	108	4.641	4.641	0.000	88	633309	30.0	30.1	
	24 1,2-Dichlorobenzene	146	4.682	4.682	0.000	92	970720	30.0	29.9	
	27 2-Methylphenol	108	4.740	4.740	0.000	96	888365	30.0	30.9	
	28 2,2'-oxybis[1-chloropropane]	45	4.775	4.775	0.000	91	1159064	30.0	28.0	
	30 N-Nitrosopyrrolidine	100	4.880	4.874	0.006	91	526877	30.0	32.1	
	35 4-Methylphenol	108	4.886	4.886	0.000	95	943387	30.0	30.3	
	32 N-Nitrosodi-n-propylamine	70	4.898	4.898	0.000	69	914772	30.0	31.6	
	31 Acetophenone	105	4.898	4.898	0.000	93	1472540	30.0	30.2	
	33 N-Nitrosomorpholine	56	4.921	4.915	0.006	86	627303	30.0	29.3	
	34 2-Toluidine	106	4.933	4.933	0.000	95	1620996	30.0	30.8	
	36 Hexachloroethane	117	5.003	5.008	-0.005	90	431529	30.0	29.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 37 Nitrobenzene-d5	82	5.043	5.043	0.000	87	2552276	60.0	61.4	
38 Nitrobenzene	77	5.061	5.061	0.000	85	1260544	30.0	29.3	
39 N-Nitrosopiperidine	114	5.207	5.207	0.000	83	476522	30.0	30.7	
40 Isophorone	82	5.288	5.288	0.000	96	2192455	30.0	31.2	
41 2-Nitrophenol	139	5.364	5.364	0.000	89	460794	30.0	33.1	
42 2,4-Dimethylphenol	107	5.399	5.399	0.000	98	1049421	30.0	31.5	
43 o,o',o''-Triethylphosphorothioat	198	5.469	5.469	0.000	83	554139	30.0	30.6	
44 Bis(2-chloroethoxy)methane	93	5.498	5.498	0.000	99	1297245	30.0	29.9	
47 2,4-Dichlorophenol	162	5.591	5.591	0.000	95	796013	30.0	31.7	
48 1,2,4-Trichlorobenzene	180	5.673	5.679	-0.006	92	924779	30.0	29.7	
* 49 Naphthalene-d8	136	5.731	5.731	0.000	99	401747	5.00	5.00	
50 Naphthalene	128	5.754	5.754	0.000	98	2552170	30.0	29.8	
51 Alpha-Terpineol	59	5.760	5.760	0.000	92	857942	30.0	31.1	
52 4-Chloroaniline	127	5.801	5.801	0.000	92	1085482	30.0	32.3	
53 2,6-Dichlorophenol	162	5.807	5.807	0.000	94	801855	30.0	32.1	
54 Hexachloropropene	213	5.836	5.836	0.000	86	782482	30.0	31.2	
55 Hexachlorobutadiene	225	5.871	5.871	0.000	94	645566	30.0	30.1	
56 Quinoline	129	6.069	6.069	0.000	94	1635287	30.0	31.2	
57 Caprolactam	113	6.122	6.110	0.012	52	264670	30.0	33.4	
59 N-Nitrosodi-n-butylamine	84	6.122	6.122	0.000	87	1028608	30.0	31.8	
58 p-Phenylene diamine	108	6.139	6.133	0.006	93	968402	30.0	32.8	
60 4-Chloro-3-methylphenol	107	6.256	6.256	0.000	92	885476	30.0	32.4	
61 Safrole, Total	162	6.326	6.331	-0.005	88	748828	30.0	32.1	
62 2-Methylnaphthalene	142	6.413	6.413	0.000	92	1632434	30.0	30.6	
63 1-Methylnaphthalene	142	6.506	6.506	0.000	93	1661528	30.0	30.8	
64 Hexachlorocyclopentadiene	237	6.559	6.559	0.000	94	850010	30.0	30.3	
65 1,2,4,5-Tetrachlorobenzene	216	6.565	6.570	-0.005	97	1140113	30.0	29.7	
66 Isosafrole Peak 1	162	6.605	6.605	0.000	89	137530	4.80	5.26	
68 2,4,6-Trichlorophenol	196	6.675	6.675	0.000	83	663907	30.0	31.8	
69 2,4,5-Trichlorophenol	196	6.705	6.705	0.000	93	739866	30.0	32.5	
$ 70 2-Fluorobiphenyl (Surr)	172	6.763	6.763	0.000	99	4283210	60.0	58.2	
71 Isosafrole Peak 2	162	6.821	6.821	0.000	90	770952	25.2	25.5	
77 1,1'-Biphenyl	154	6.856	6.856	0.000	95	2266320	30.0	29.5	
78 2-Chloronaphthalene	162	6.874	6.874	0.000	94	1855663	30.0	31.1	
79 1-Chloronaphthalene	162	6.897	6.897	0.000	99	1680476	30.0	28.9	
80 Phenyl ether	170	6.955	6.955	0.000	87	1296929	30.0	29.7	
81 2-Nitroaniline	138	6.967	6.967	0.000	76	530505	30.0	34.9	
82 1,4-Naphthoquinone	158	7.043	7.043	0.000	81	694670	30.0	33.0	
83 1,4-Dinitrobenzene	168	7.101	7.101	0.000	85	305116	30.0	34.8	
84 Dimethyl phthalate	163	7.147	7.142	0.005	97	1969798	30.0	29.9	
85 1,3-Dinitrobenzene	168	7.165	7.165	0.000	84	340153	30.0	33.9	
86 2,6-Dinitrotoluene	165	7.200	7.200	0.000	91	462374	30.0	32.0	
87 Acenaphthylene	152	7.264	7.264	0.000	99	2572530	30.0	31.2	
88 3-Nitroaniline	138	7.357	7.352	0.005	87	462143	30.0	34.6	
* 89 Acenaphthene-d10	164	7.398	7.398	0.000	94	251060	5.00	5.00	
90 Acenaphthene	153	7.433	7.433	0.000	96	1841635	30.0	30.9	
91 2,4-Dinitrophenol	184	7.456	7.451	0.005	87	685012	60.0	69.8	
93 4-Nitrophenol	109	7.509	7.503	0.006	82	676148	60.0	66.1	
92 Pentachlorobenzene	250	7.550	7.556	-0.006	98	974178	30.0	30.0	
95 2,4-Dinitrotoluene	165	7.579	7.579	0.000	90	623645	30.0	33.7	
94 Dibenzofuran	168	7.596	7.596	0.000	97	2586713	30.0	29.9	
96 1-Naphthylamine	143	7.666	7.666	0.000	98	1722370	30.0	33.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
97 2,3,4,6-Tetrachlorophenol	232	7.707	7.707	0.000	70	688870	30.0	32.8	
98 2-Naphthylamine	143	7.742	7.742	0.000	95	1851683	30.0	32.3	
99 Diethyl phthalate	149	7.818	7.818	0.000	98	1962518	30.0	30.8	
101 Thionazin	107	7.894	7.894	0.000	77	345938	30.0	31.9	
100 Fluorene	166	7.917	7.923	-0.006	94	2125375	30.0	30.9	
102 4-Chlorophenyl phenyl ether	204	7.923	7.923	0.000	89	1178081	30.0	31.1	
103 N-Nitro-o-toluidine	152	7.929	7.929	0.000	89	569411	30.0	34.0	
104 4-Nitroaniline	138	7.934	7.929	0.005	79	509215	30.0	34.9	
105 4,6-Dinitro-2-methylphenol	198	7.964	7.958	0.006	88	878051	60.0	66.5	
106 N-Nitrosodiphenylamine	169	8.033	8.033	0.000	62	1490413	25.5	26.4	
107 1,2-Diphenylhydrazine	77	8.074	8.074	0.000	41	2576411	30.0	30.5	
$ 108 2,4,6-Tribromophenol	330	8.144	8.144	0.000	94	797732	60.0	66.2	
109 Sulfotepp	97	8.185	8.185	0.000	82	388276	30.0	30.9	
110 1,3,5-Trinitrobenzene	213	8.272	8.272	0.000	82	265356	30.0	32.0	
111 cis-Diallate	86	8.307	8.307	0.000	0	759795	22.2	22.0	
112 Phorate	75	8.319	8.319	0.000	95	1617638	30.0	33.5	
113 Phenacetin	108	8.325	8.325	0.000	93	1029254	30.0	33.9	
114 4-Bromophenyl phenyl ether	248	8.389	8.389	0.000	64	740908	30.0	30.0	
115 trans-Diallate	86	8.395	8.395	0.000	0	266707	7.80	7.64	
116 Hexachlorobenzene	284	8.436	8.436	0.000	96	803786	30.0	28.7	
117 Dimethoate	87	8.476	8.476	0.000	97	910454	30.0	32.5	
118 Atrazine	200	8.541	8.541	0.000	93	655787	30.0	30.6	
119 Pentachlorophenol	266	8.622	8.622	0.000	93	1046783	60.0	66.5	
121 4-Aminobiphenyl	169	8.634	8.634	0.000	91	2497434	30.0	32.3	
120 Pentachloronitrobenzene	237	8.634	8.634	0.000	90	372198	30.0	31.4	
122 Pronamide	173	8.686	8.686	0.000	90	969488	30.0	33.9	
125 Dinoseb	211	8.797	8.803	-0.006	97	655631	30.0	32.1	
* 123 Phenanthrene-d10	188	8.809	8.809	0.000	98	513894	5.00	5.00	
126 Disulfoton	88	8.814	8.814	0.000	96	1547537	30.0	31.7	
124 Phenanthrene	178	8.832	8.832	0.000	96	3194401	30.0	29.2	
127 Anthracene	178	8.879	8.879	0.000	98	3257582	30.0	30.7	
128 Carbazole	167	9.030	9.030	0.000	96	2855832	30.0	31.6	
129 Methyl parathion	109	9.170	9.170	0.000	93	700077	30.0	31.8	
130 Di-n-butyl phthalate	149	9.374	9.374	0.000	100	3223023	30.0	33.2	
132 Ethyl Parathion	109	9.543	9.543	0.000	86	428294	30.0	35.7	
131 4-Nitroquinoline-1-oxide	190	9.566	9.566	0.000	89	302694	30.0	31.3	
S 67 Diallate	86				0		30.0	29.7	
134 Octachlorostyrene	308	9.776	9.782	-0.006	91	315004	30.0	29.5	
135 Isodrin	193	9.823	9.823	0.000	93	406763	30.0	28.6	
136 Fluoranthene	202	9.963	9.963	0.000	97	3644159	30.0	30.9	
137 Benzidine	184	10.097	10.097	0.000	99	6788558	90.0	94.6	e
* 138 Pyrene-d10 (IS)	212	10.161	10.161	0.000	97	547880	5.00	5.00	
139 Pyrene	202	10.178	10.178	0.000	97	3845416	30.0	28.9	
$ 142 p-Terphenyl-d14	244	10.336	10.342	-0.006	99	5933075	60.0	59.1	
145 p-Dimethylamino azobenzene	225	10.481	10.481	0.000	90	742419	30.0	30.4	
146 Chlorobenzilate	139	10.534	10.534	0.000	97	1016329	30.0	33.6	
148 3,3'-Dimethylbenzidine	212	10.837	10.837	0.000	99	2186144	30.0	31.3	
150 Butyl benzyl phthalate	149	10.860	10.860	0.000	95	1433063	30.0	33.1	
151 2-Acetylaminofluorene	181	11.111	11.111	0.000	93	1253965	30.0	35.0	
153 3,3'-Dichlorobenzidine	252	11.449	11.455	-0.006	75	1489485	30.0	33.3	
154 4,4'-Methylene bis(2-chloroani	231	11.461	11.461	0.000	95	797774	30.0	33.2	
152 Benzo[a]anthracene	228	11.472	11.472	0.000	97	3885572	30.0	32.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
155 Chrysene	228	11.519	11.513	0.006	96	3766572	30.0	30.4	
156 Bis(2-ethylhexyl) phthalate	149	11.548	11.548	0.000	97	1935872	30.0	39.7	M
157 6-Methylchrysene	242	12.096	12.096	0.000	98	2625170	30.0	32.3	
158 Di-n-octyl phthalate	149	12.422	12.428	-0.006	99	3036503	30.0	43.5	
159 Benzo[b]fluoranthene	252	12.895	12.895	0.000	95	3781472	30.0	32.2	
160 7,12-Dimethylbenz(a)anthracene	256	12.895	12.895	0.000	75	1693081	30.0	35.8	
161 Benzo[k]fluoranthene	252	12.935	12.935	0.000	98	3837847	30.0	32.3	
162 Benzo[a]pyrene	252	13.361	13.361	0.000	75	3131042	30.0	33.7	
* 163 Perylene-d12	264	13.437	13.442	-0.005	99	445891	5.00	5.00	
164 3-Methylcholanthrene	268	13.880	13.880	0.000	89	1730616	30.0	34.4	
165 Dibenz[a,h]acridine	279	14.678	14.678	0.000	90	2536878	30.0	35.1	
166 Dibenz[a,j]acridine	279	14.742	14.742	0.000	97	2877464	30.0	34.8	
167 Indeno[1,2,3-cd]pyrene	276	14.981	14.981	0.000	98	2752811	30.0	33.6	
168 Dibenz(a,h)anthracene	278	15.022	15.022	0.000	90	3259473	30.0	33.8	
169 Benzo[g,h,i]perylene	276	15.366	15.366	0.000	97	3206481	30.0	31.9	
S 170 Aramite, Total	185		44.000				30.0	ND	
S 173 Dinitrotoluene	165				0			65.7	
S 177 Isosafrole	162				0		30.0	30.7	

QC Flag Legend

Processing Flags

e - Potential Peak Saturated

Review Flags

M - Manually Integrated

Reagents:

MSS_RV8270_8_00027 Amount Added: 1.00 Units: mL

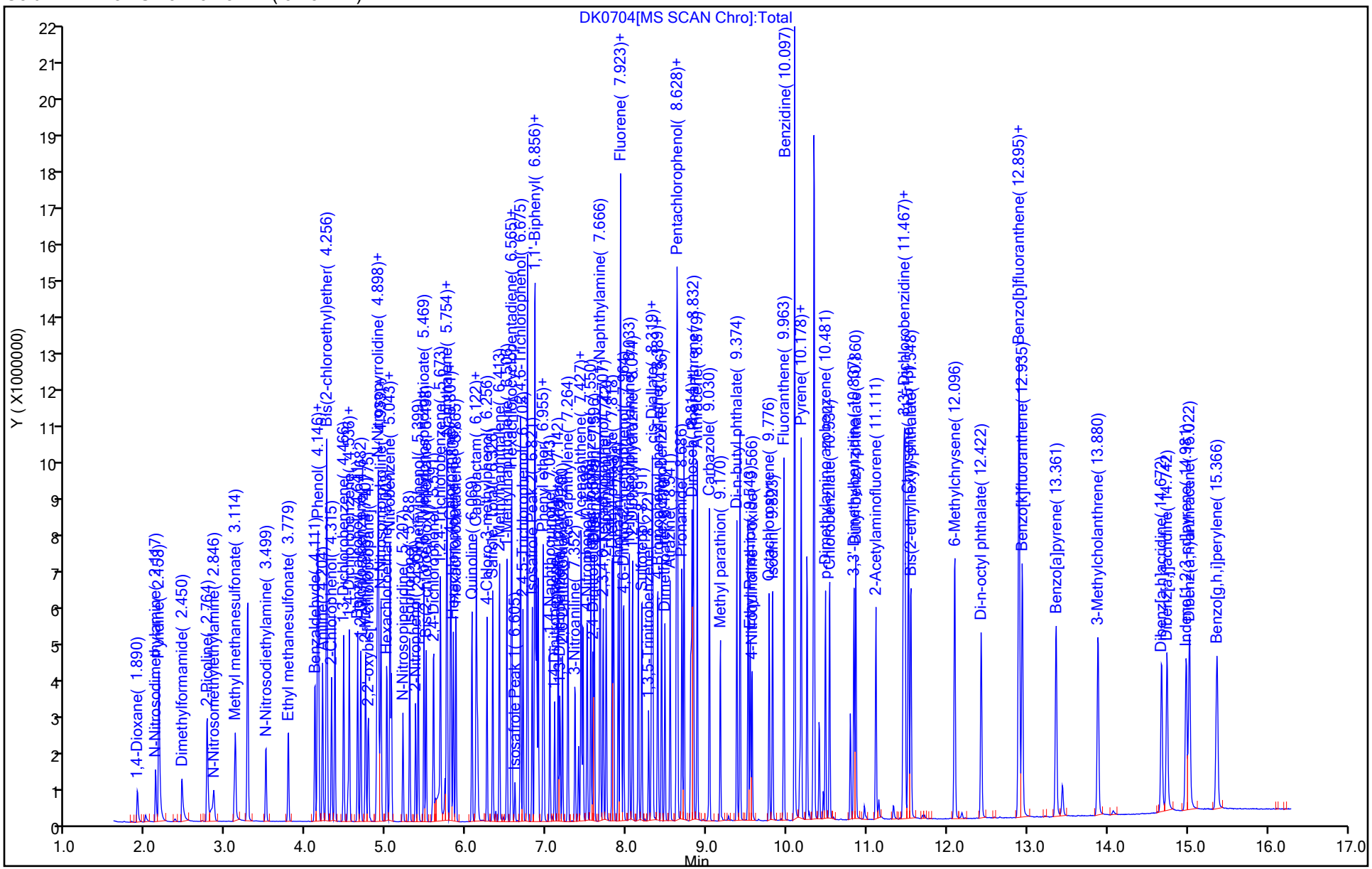
Report Date: 08-Nov-2022 11:34:36 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0704.D

Injection Date:	07-Nov-2022 20:02:30	Instrument ID:	HP19760	Operator ID:	kel10217
Lims ID:	IC L8			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	MSSemi_HP19760	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

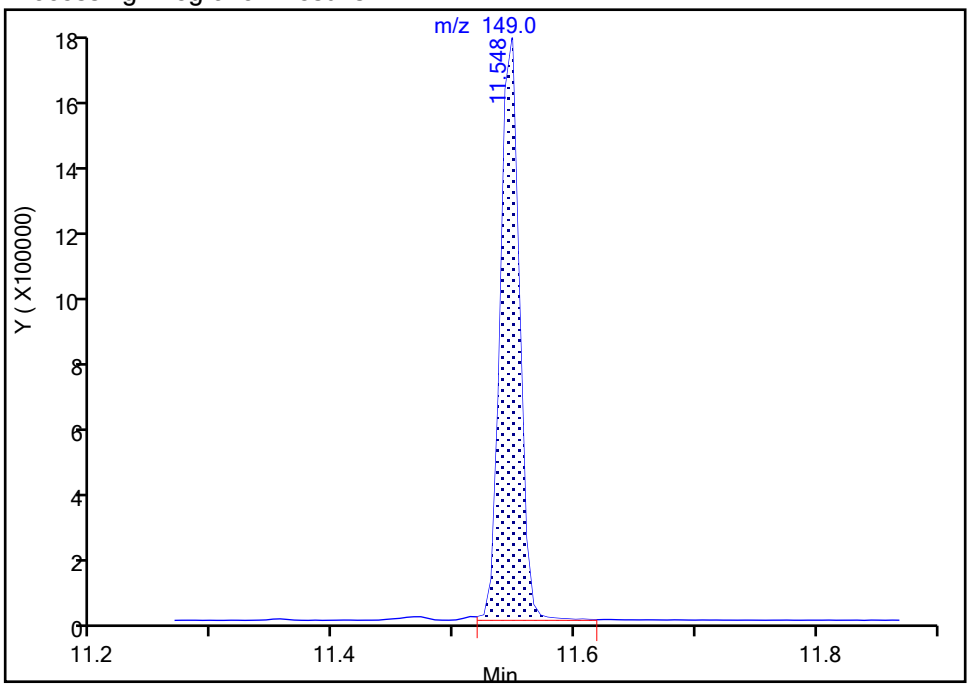
Data File:	\\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0704.D				
Injection Date:	07-Nov-2022 20:02:30	Instrument ID:	HP19760		
Lims ID:	IC L8				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP19760	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

156 Bis(2-ethylhexyl) phthalate, CAS: 117-81-7

Signal: 1

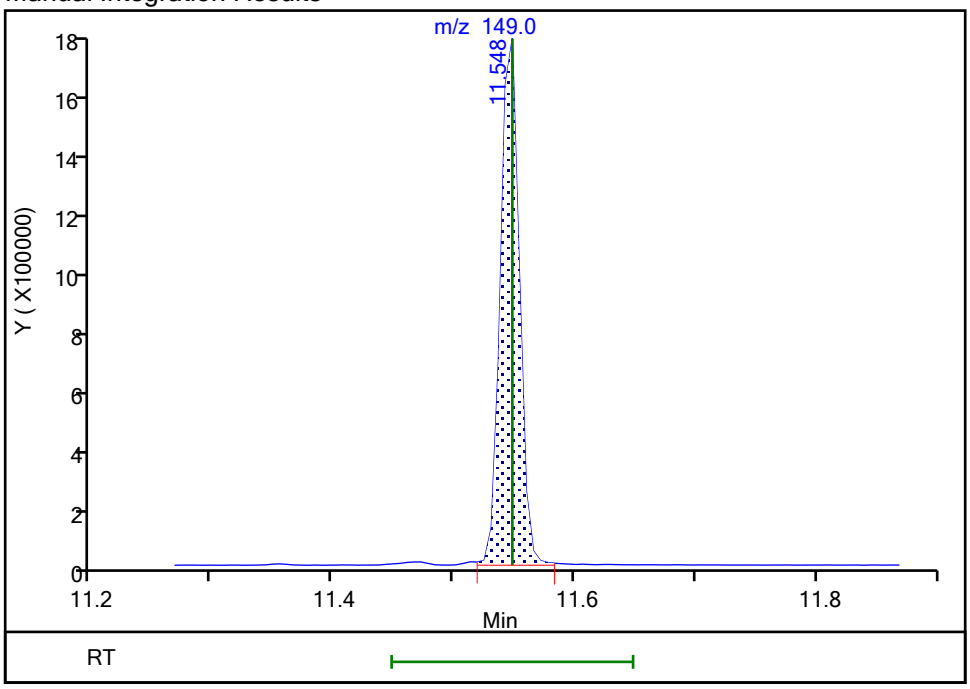
Processing Integration Results

RT: 11.55
Area: 1943420
Amount: 29.320444
Amount Units: ug/ml



Manual Integration Results

RT: 11.55
Area: 1935872
Amount: 39.652502
Amount Units: ug/ml



Reviewer: SJ89, 07-Nov-2022 22:52:59

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\HP19760\20221107-70576.b\DK0705.D
Lims ID: IC L7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 07-Nov-2022 20:23:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L7
Misc. Info.: 410-0070576-006
Operator ID: kel10217 Instrument ID: HP19760
Sublist: chrom-MSSemi_HP19760*sub24

Method: \\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\MSSemi_HP19760.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 08-Nov-2022 11:34:44 Calib Date: 08-Nov-2022 01:34:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0720.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1681

First Level Reviewer: SJ89 Date: 07-Nov-2022 20:50:31

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	2 1,4-Dioxane	88	1.890	1.896	-0.006	92	310825	20.0	20.5	
	3 N-Nitrosodimethylamine	74	2.117	2.123	-0.006	94	507394	20.0	19.2	
	4 Pyridine	79	2.158	2.164	-0.006	96	1597968	40.0	39.5	
	5 Dimethylformamide	73	2.450	2.455	-0.005	92	532852	20.0	20.9	
	6 2-Picoline	93	2.764	2.764	0.000	89	805272	20.0	20.1	
	7 N-Nitrosomethylethylamine	88	2.846	2.846	0.000	93	353437	20.0	19.8	
	8 Methyl methanesulfonate	80	3.114	3.114	0.000	86	492398	20.0	20.7	
$	10 2-Fluorophenol	112	3.266	3.266	0.000	93	1313121	40.0	41.0	
	11 N-Nitrosodiethylamine	102	3.493	3.499	-0.006	96	327624	20.0	20.6	
	12 Ethyl methanesulfonate	109	3.773	3.773	0.000	96	349606	20.0	20.0	
	14 Benzaldehyde	77	4.105	4.111	-0.006	94	626387	20.0	18.5	
$	17 Phenol-d5	99	4.140	4.140	0.000	94	1804073	40.0	41.3	
	18 Phenol	94	4.152	4.152	0.000	94	918948	20.0	20.7	
	16 Aniline	93	4.204	4.204	0.000	95	1110128	20.0	21.1	
	19 Bis(2-chloroethyl)ether	93	4.262	4.262	0.000	96	742708	20.0	20.8	
	20 2-Chlorophenol	128	4.315	4.315	0.000	92	614961	20.0	21.3	
	21 1,3-Dichlorobenzene	146	4.466	4.466	0.000	93	695230	20.0	20.2	
*	22 1,4-Dichlorobenzene-d4	152	4.519	4.525	-0.006	93	116924	5.00	5.00	
	23 1,4-Dichlorobenzene	146	4.536	4.536	0.000	88	703883	20.0	20.1	
	25 Benzyl alcohol	108	4.641	4.641	0.000	89	438990	20.0	20.6	
	24 1,2-Dichlorobenzene	146	4.682	4.682	0.000	93	666345	20.0	20.3	
	27 2-Methylphenol	108	4.740	4.740	0.000	95	596941	20.0	20.6	
	28 2,2'-oxybis[1-chloropropane]	45	4.775	4.775	0.000	91	789285	20.0	18.9	
	30 N-Nitrosopyrrolidine	100	4.874	4.874	0.000	90	352797	20.0	21.3	
	35 4-Methylphenol	108	4.886	4.886	0.000	96	629891	20.0	20.0	
	32 N-Nitrosodi-n-propylamine	70	4.898	4.898	0.000	71	610700	20.0	20.9	
	31 Acetophenone	105	4.898	4.898	0.000	91	987933	20.0	20.0	
	33 N-Nitrosomorpholine	56	4.915	4.915	0.000	91	424509	20.0	19.6	
	34 2-Toluidine	106	4.933	4.933	0.000	95	1104777	20.0	20.8	
	36 Hexachloroethane	117	5.003	5.008	-0.005	90	296181	20.0	19.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 37 Nitrobenzene-d5	82	5.043	5.043	0.000	87	1744689	40.0	42.3	
38 Nitrobenzene	77	5.061	5.061	0.000	84	866805	20.0	20.3	
39 N-Nitrosopiperidine	114	5.207	5.207	0.000	83	321815	20.0	20.9	
40 Isophorone	82	5.288	5.288	0.000	96	1493554	20.0	21.4	
41 2-Nitrophenol	139	5.364	5.364	0.000	89	312704	20.0	22.7	
42 2,4-Dimethylphenol	107	5.399	5.399	0.000	98	713645	20.0	21.6	
43 o,o',o''-Triethylphosphorothioat	198	5.469	5.469	0.000	80	383414	20.0	21.3	
44 Bis(2-chloroethoxy)methane	93	5.498	5.498	0.000	99	876750	20.0	20.4	
47 2,4-Dichlorophenol	162	5.585	5.591	-0.006	95	547956	20.0	22.0	
48 1,2,4-Trichlorobenzene	180	5.673	5.679	-0.006	92	634983	20.0	20.5	
* 49 Naphthalene-d8	136	5.731	5.731	0.000	99	398580	5.00	5.00	
50 Naphthalene	128	5.749	5.754	-0.005	98	1755719	20.0	20.7	
51 Alpha-Terpineol	59	5.760	5.760	0.000	92	590083	20.0	21.5	
52 4-Chloroaniline	127	5.801	5.801	0.000	93	745114	20.0	22.4	
53 2,6-Dichlorophenol	162	5.807	5.807	0.000	95	545195	20.0	22.0	
54 Hexachloropropene	213	5.836	5.836	0.000	87	520583	20.0	20.9	
55 Hexachlorobutadiene	225	5.865	5.871	-0.006	94	437791	20.0	20.6	
56 Quinoline	129	6.069	6.069	0.000	94	1106817	20.0	21.3	
57 Caprolactam	113	6.116	6.110	0.006	76	175874	20.0	22.4	
59 N-Nitrosodi-n-butylamine	84	6.122	6.122	0.000	90	687012	20.0	21.4	
58 p-Phenylene diamine	108	6.133	6.133	0.000	94	651544	20.0	22.2	
60 4-Chloro-3-methylphenol	107	6.256	6.256	0.000	92	596258	20.0	22.0	
61 Safrole, Total	162	6.326	6.331	-0.005	87	495646	20.0	21.4	
62 2-Methylnaphthalene	142	6.407	6.413	-0.006	92	1109893	20.0	21.0	
63 1-Methylnaphthalene	142	6.500	6.506	-0.006	94	1133572	20.0	21.2	
64 Hexachlorocyclopentadiene	237	6.559	6.559	0.000	93	581643	20.0	19.9	
65 1,2,4,5-Tetrachlorobenzene	216	6.565	6.570	-0.005	97	779473	20.0	19.4	
66 Isosafrole Peak 1	162	6.605	6.605	0.000	88	90141	3.20	3.30	
68 2,4,6-Trichlorophenol	196	6.675	6.675	0.000	82	452769	20.0	20.7	
69 2,4,5-Trichlorophenol	196	6.704	6.705	-0.001	93	500759	20.0	21.0	
$ 70 2-Fluorobiphenyl (Surr)	172	6.757	6.763	-0.006	100	2948384	40.0	38.3	
71 Isosafrole Peak 2	162	6.821	6.821	0.000	90	514201	16.8	16.2	
77 1,1'-Biphenyl	154	6.856	6.856	0.000	95	1554512	20.0	19.3	
78 2-Chloronaphthalene	162	6.874	6.874	0.000	94	1306081	20.0	20.9	M
79 1-Chloronaphthalene	162	6.891	6.897	-0.006	98	1084203	20.0	17.8	Ma
80 Phenyl ether	170	6.955	6.955	0.000	87	889687	20.0	19.5	
81 2-Nitroaniline	138	6.967	6.967	0.000	76	362949	20.0	22.9	
82 1,4-Naphthoquinone	158	7.037	7.043	-0.006	82	466408	20.0	21.2	
83 1,4-Dinitrobenzene	168	7.101	7.101	0.000	84	203548	20.0	22.2	
84 Dimethyl phthalate	163	7.142	7.142	0.000	97	1365281	20.0	19.8	
85 1,3-Dinitrobenzene	168	7.165	7.165	0.000	84	226252	20.0	21.5	
86 2,6-Dinitrotoluene	165	7.200	7.200	0.000	91	318388	20.0	21.1	
87 Acenaphthylene	152	7.264	7.264	0.000	99	1746799	20.0	20.3	
88 3-Nitroaniline	138	7.351	7.352	-0.001	87	315912	20.0	22.6	
* 89 Acenaphthene-d10	164	7.398	7.398	0.000	93	262456	5.00	5.00	
90 Acenaphthene	153	7.427	7.433	-0.006	95	1244770	20.0	20.0	
91 2,4-Dinitrophenol	184	7.451	7.451	0.000	83	452838	40.0	44.2	
93 4-Nitrophenol	109	7.503	7.503	0.000	83	465943	40.0	43.6	
92 Pentachlorobenzene	250	7.550	7.556	-0.006	98	665814	20.0	19.6	
95 2,4-Dinitrotoluene	165	7.579	7.579	0.000	90	432421	20.0	22.3	
94 Dibenzofuran	168	7.596	7.596	0.000	97	1765557	20.0	19.5	
96 1-Naphthylamine	143	7.666	7.666	0.000	98	1143536	20.0	21.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
97 2,3,4,6-Tetrachlorophenol	232	7.707	7.707	0.000	70	469525	20.0	21.4	
98 2-Naphthylamine	143	7.742	7.742	0.000	95	1243990	20.0	20.7	
99 Diethyl phthalate	149	7.818	7.818	0.000	98	1337367	20.0	20.1	
101 Thionazin	107	7.894	7.894	0.000	79	233777	20.0	20.6	
100 Fluorene	166	7.917	7.923	-0.006	93	1443587	20.0	20.1	
102 4-Chlorophenyl phenyl ether	204	7.923	7.923	0.000	88	803016	20.0	20.3	
103 N-Nitro-o-toluidine	152	7.929	7.929	-0.001	88	374554	20.0	21.4	
104 4-Nitroaniline	138	7.929	7.929	-0.001	77	341795	20.0	22.4	
105 4,6-Dinitro-2-methylphenol	198	7.958	7.958	0.000	86	584161	40.0	43.9	
106 N-Nitrosodiphenylamine	169	8.033	8.033	0.000	62	1018094	17.0	17.9	
107 1,2-Diphenylhydrazine	77	8.068	8.074	-0.006	41	1751729	20.0	20.6	
$ 108 2,4,6-Tribromophenol	330	8.144	8.144	0.000	94	540820	40.0	42.9	
109 Sulfotepp	97	8.185	8.185	0.000	78	260423	20.0	20.6	
110 1,3,5-Trinitrobenzene	213	8.272	8.272	0.000	83	172741	20.0	20.9	
111 cis-Diallate	86	8.307	8.307	0.000	0	503363	14.8	14.5	
112 Phorate	75	8.313	8.319	-0.006	95	1062592	20.0	21.8	
113 Phenacetin	108	8.325	8.325	0.000	90	688605	20.0	22.5	
114 4-Bromophenyl phenyl ether	248	8.383	8.389	-0.006	64	505999	20.0	20.3	
115 trans-Diallate	86	8.395	8.395	0.000	0	177356	5.20	5.04	
116 Hexachlorobenzene	284	8.436	8.436	0.000	95	549329	20.0	19.4	
117 Dimethoate	87	8.471	8.476	-0.005	96	621015	20.0	22.0	
118 Atrazine	200	8.541	8.541	-0.001	93	445586	20.0	20.6	
119 Pentachlorophenol	266	8.622	8.622	0.000	93	713571	40.0	45.0	
121 4-Aminobiphenyl	169	8.628	8.634	-0.006	91	1677106	20.0	21.5	
120 Pentachloronitrobenzene	237	8.634	8.634	0.000	88	256368	20.0	21.5	
122 Pronamide	173	8.686	8.686	0.000	90	658986	20.0	22.9	
125 Dinoseb	211	8.797	8.803	-0.006	97	429160	20.0	21.1	
* 123 Phenanthrene-d10	188	8.809	8.809	0.000	98	517475	5.00	5.00	
126 Disulfoton	88	8.814	8.814	0.000	96	1028837	20.0	20.9	
124 Phenanthrene	178	8.826	8.832	-0.006	97	2194952	20.0	19.9	
127 Anthracene	178	8.879	8.879	0.000	98	2226687	20.0	20.8	
128 Carbazole	167	9.030	9.030	0.000	96	1952916	20.0	21.4	
129 Methyl parathion	109	9.164	9.170	-0.006	93	461568	20.0	21.0	
130 Di-n-butyl phthalate	149	9.374	9.374	0.000	100	2169273	20.0	22.2	
132 Ethyl Parathion	109	9.537	9.543	-0.006	86	278271	20.0	23.1	
131 4-Nitroquinoline-1-oxide	190	9.561	9.566	-0.005	83	190429	20.0	20.3	
S 67 Diallate	86				0		20.0	19.5	
134 Octachlorostyrene	308	9.776	9.782	-0.006	90	210704	20.0	19.6	
135 Isodrin	193	9.817	9.823	-0.006	95	273074	20.0	19.0	
136 Fluoranthene	202	9.957	9.963	-0.006	97	2487227	20.0	20.9	
137 Benzidine	184	10.091	10.097	-0.006	99	4740314	60.0	67.0	
* 138 Pyrene-d10 (IS)	212	10.155	10.161	-0.006	98	540018	5.00	5.00	
139 Pyrene	202	10.178	10.178	0.000	98	2640244	20.0	20.1	
$ 142 p-Terphenyl-d14	244	10.336	10.342	-0.006	99	4087823	40.0	41.3	
145 p-Dimethylamino azobenzene	225	10.481	10.481	0.000	90	486134	20.0	20.5	
146 Chlorobenzilate	139	10.528	10.534	-0.006	97	668825	20.0	22.4	
148 3,3'-Dimethylbenzidine	212	10.831	10.837	-0.006	99	1456586	20.0	21.1	
150 Butyl benzyl phthalate	149	10.860	10.860	0.000	96	968571	20.0	22.7	
151 2-Acetylaminofluorene	181	11.105	11.111	-0.006	94	811441	20.0	23.0	
153 3,3'-Dichlorobenzidine	252	11.449	11.455	-0.006	75	1009434	20.0	22.9	
154 4,4'-Methylene bis(2-chloroani	231	11.461	11.461	0.000	95	529962	20.0	22.4	
152 Benzo[a]anthracene	228	11.466	11.472	-0.006	97	2629112	20.0	22.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
155 Chrysene	228	11.513	11.513	0.000	96	2603941	20.0	21.3	
156 Bis(2-ethylhexyl) phthalate	149	11.542	11.548	-0.006	97	1290803	20.0	26.8	M
157 6-Methylchrysene	242	12.090	12.096	-0.006	98	1742802	20.0	21.8	
158 Di-n-octyl phthalate	149	12.422	12.428	-0.006	99	1964851	20.0	27.9	
159 Benzo[b]fluoranthene	252	12.895	12.895	-0.001	96	2538555	20.0	21.4	
160 7,12-Dimethylbenz(a)anthracene	256	12.895	12.895	-0.001	73	1108720	20.0	23.2	
161 Benzo[k]fluoranthene	252	12.935	12.935	0.000	97	2621406	20.0	21.9	
162 Benzo[a]pyrene	252	13.355	13.361	-0.006	75	2098606	20.0	22.4	
* 163 Perylene-d12	264	13.437	13.442	-0.005	99	449748	5.00	5.00	
164 3-Methylcholanthrene	268	13.880	13.880	0.000	89	1131281	20.0	22.3	
165 Dibenz[a,h]acridine	279	14.672	14.678	-0.006	90	1644666	20.0	22.6	
166 Dibenz[a,j]acridine	279	14.742	14.742	0.000	96	1956855	20.0	23.5	
167 Indeno[1,2,3-cd]pyrene	276	14.981	14.981	0.000	97	1899322	20.0	23.0	
168 Dibenz(a,h)anthracene	278	15.022	15.022	0.000	91	2140708	20.0	22.0	
169 Benzo[g,h,i]perylene	276	15.360	15.366	-0.006	97	2149117	20.0	21.2	
S 170 Aramite, Total	185		44.000				20.0	ND	
S 173 Dinitrotoluene	165				0			43.4	
S 177 Isosafrole	162				0		20.0	19.5	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSS_RV8270_7_00026 Amount Added: 1.00 Units: mL

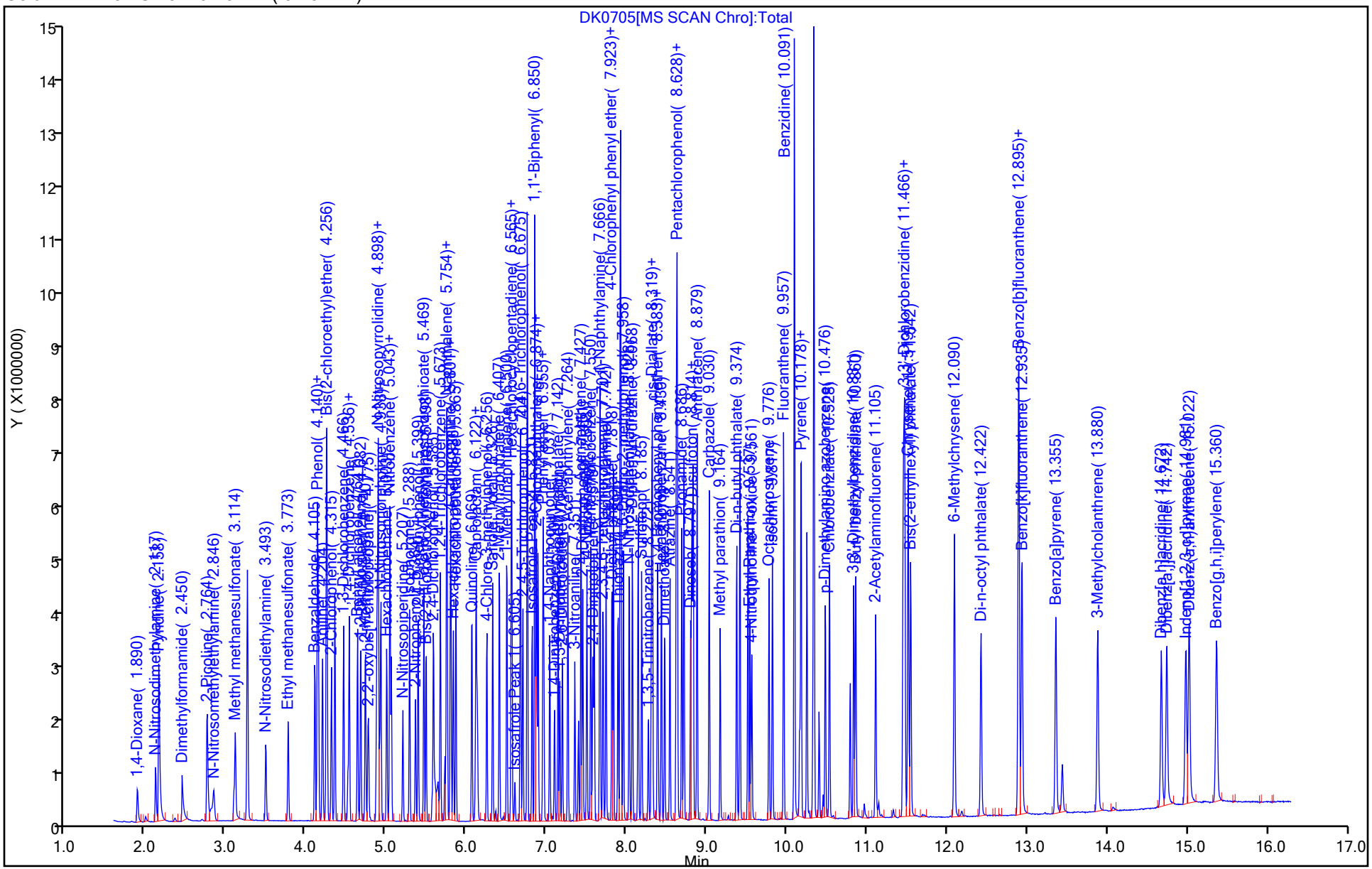
Report Date: 08-Nov-2022 11:34:45 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0705.D

Injection Date:	07-Nov-2022 20:23:30	Instrument ID:	HP19760	Operator ID:	kel10217
Lims ID:	IC L7			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	MSSemi_HP19760	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

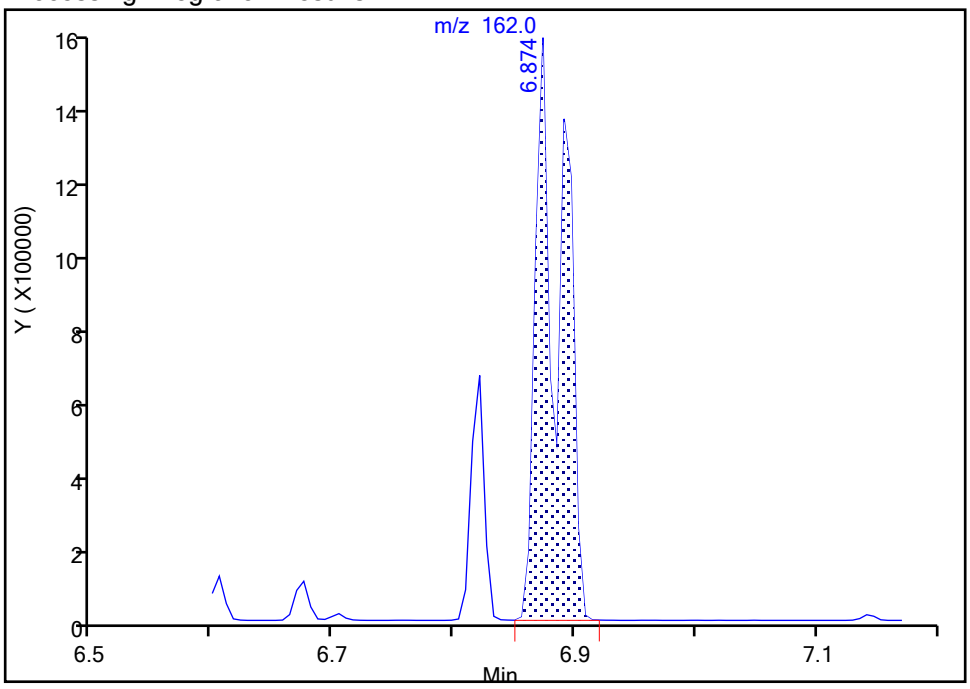
Data File:	\\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0705.D				
Injection Date:	07-Nov-2022 20:23:30	Instrument ID:	HP19760		
Lims ID:	IC L7				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP19760	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

78 2-Chloronaphthalene, CAS: 91-58-7

Signal: 1

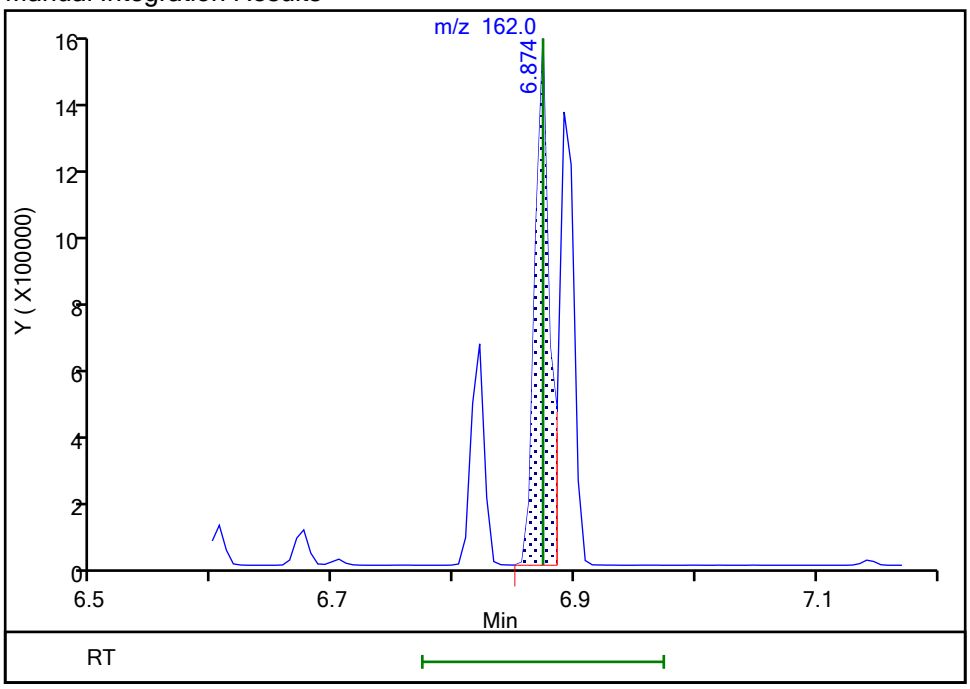
Processing Integration Results

RT: 6.87
Area: 2390285
Amount: 31.478404
Amount Units: ug/ml



Manual Integration Results

RT: 6.87
Area: 1306081
Amount: 20.916824
Amount Units: ug/ml



Reviewer: SJ89, 07-Nov-2022 20:43:02
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

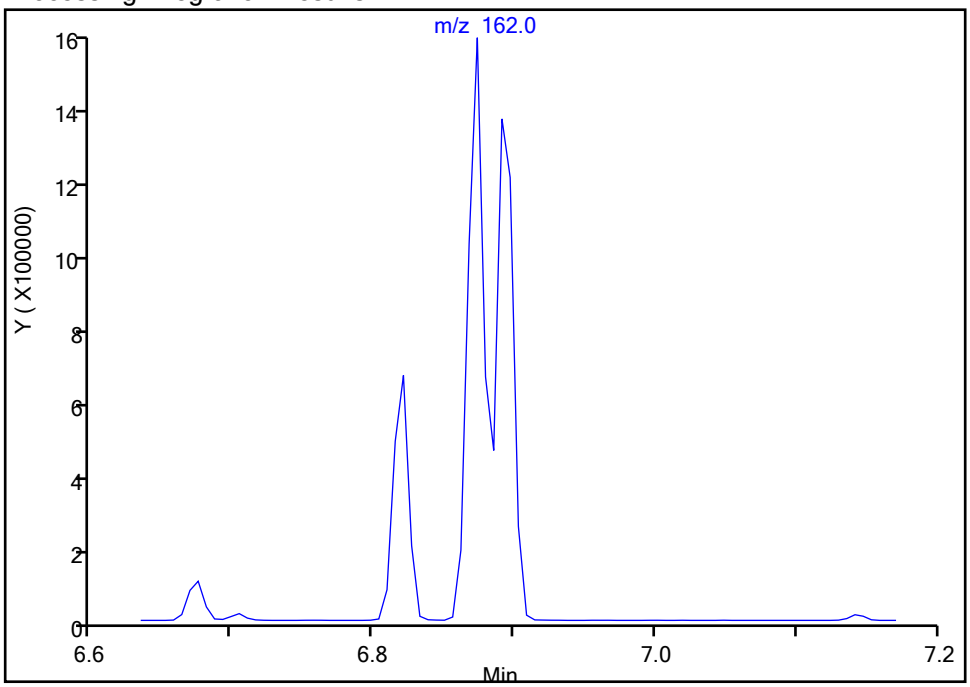
Data File:	\\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0705.D				
Injection Date:	07-Nov-2022 20:23:30	Instrument ID:	HP19760		
Lims ID:	IC L7				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP19760	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

79 1-Chloronaphthalene, CAS: 90-13-1

Signal: 1

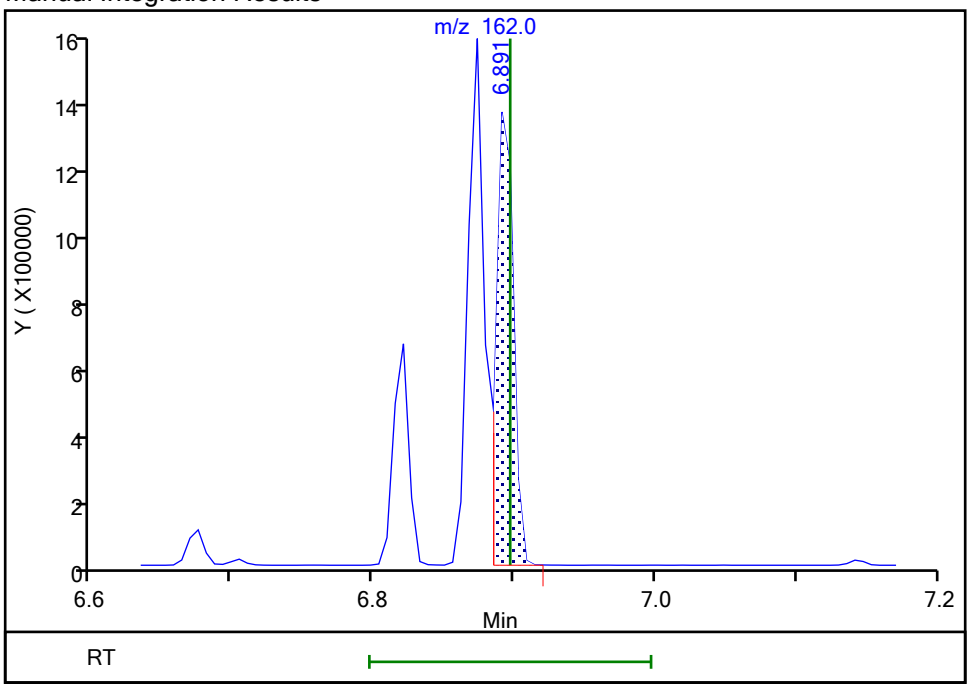
Not Detected
Expected RT: 6.90

Processing Integration Results



Manual Integration Results

RT: 6.89
Area: 1084203
Amount: 17.832044
Amount Units: ug/ml



Reviewer: SJ89, 07-Nov-2022 20:43:10
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

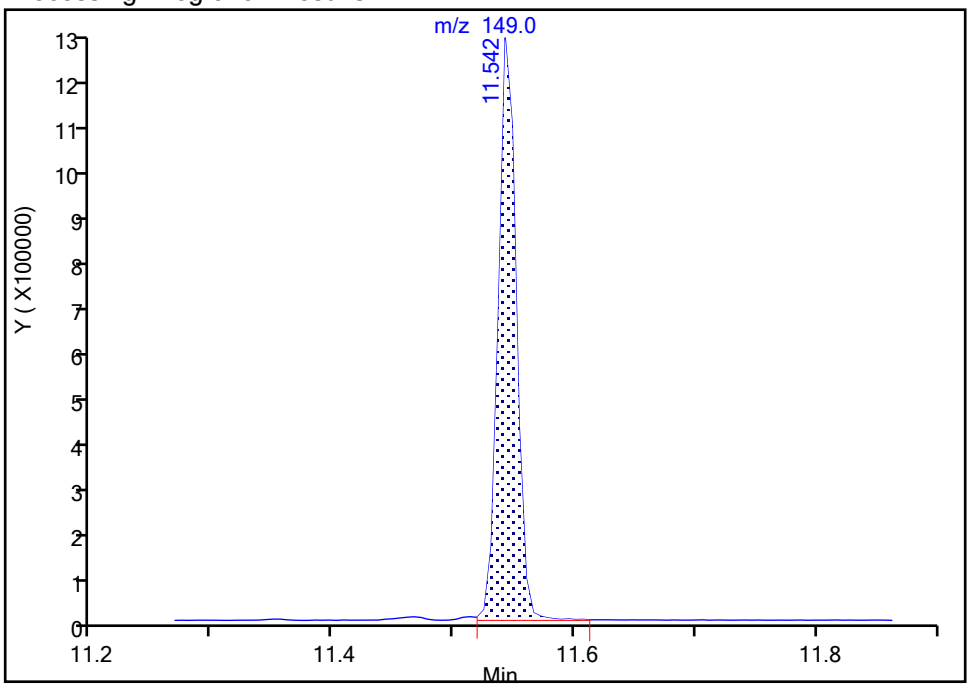
Data File:	\\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0705.D				
Injection Date:	07-Nov-2022 20:23:30	Instrument ID:	HP19760		
Lims ID:	IC L7				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP19760	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

156 Bis(2-ethylhexyl) phthalate, CAS: 117-81-7

Signal: 1

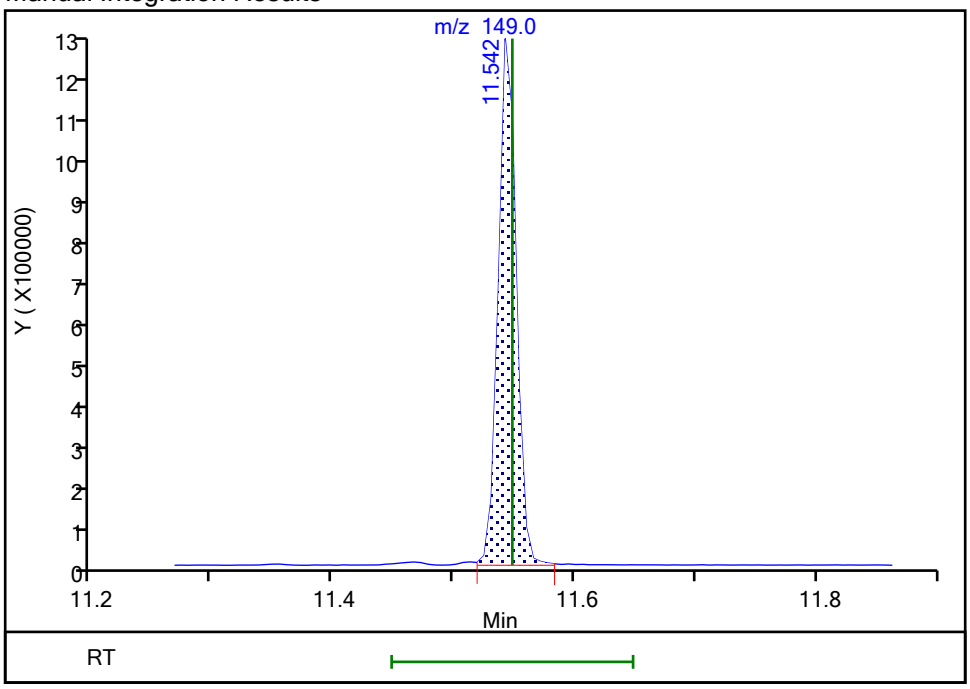
Processing Integration Results

RT: 11.54
Area: 1294696
Amount: 20.917548
Amount Units: ug/ml



Manual Integration Results

RT: 11.54
Area: 1290803
Amount: 26.824469
Amount Units: ug/ml



Reviewer: SJ89, 07-Nov-2022 22:53:19

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\HP19760\20221107-70576.b\DK0706.D
Lims ID: IC L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 07-Nov-2022 20:44:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L5
Misc. Info.: 410-0070576-007
Operator ID: kel10217 Instrument ID: HP19760
Sublist: chrom-MSSemi_HP19760*sub24

Method: \\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\MSSemi_HP19760.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 08-Nov-2022 11:34:52 Calib Date: 08-Nov-2022 01:34:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0720.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1681

First Level Reviewer: SJ89 Date: 07-Nov-2022 21:16:24

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	2 1,4-Dioxane	88	1.896	1.896	0.000	92	116279	7.50	7.88	
	3 N-Nitrosodimethylamine	74	2.123	2.123	0.000	94	188782	7.50	7.33	
	4 Pyridine	79	2.164	2.164	0.000	96	593835	15.0	15.1	
	5 Dimethylformamide	73	2.461	2.461	0.000	92	194773	7.50	7.86	
	6 2-Picoline	93	2.764	2.764	0.000	90	301353	7.50	7.71	
	7 N-Nitrosomethylethylamine	88	2.846	2.846	0.000	93	132478	7.50	7.60	
	8 Methyl methanesulfonate	80	3.114	3.114	0.000	86	181379	7.50	7.84	
$	10 2-Fluorophenol	112	3.260	3.260	0.000	93	486378	15.0	15.6	
	11 N-Nitrosodiethylamine	102	3.493	3.493	0.000	95	120068	7.50	7.73	
	12 Ethyl methanesulfonate	109	3.773	3.773	0.000	96	131986	7.50	7.76	
	14 Benzaldehyde	77	4.105	4.105	0.000	93	256732	7.50	7.77	
$	17 Phenol-d5	99	4.140	4.140	0.000	94	672355	15.0	15.8	
	18 Phenol	94	4.151	4.151	0.000	93	339287	7.50	7.84	
	16 Aniline	93	4.204	4.204	0.000	95	407863	7.50	7.97	
	19 Bis(2-chloroethyl)ether	93	4.262	4.262	0.000	95	273374	7.50	7.86	
	20 2-Chlorophenol	128	4.315	4.315	0.000	92	224315	7.50	7.99	
	21 1,3-Dichlorobenzene	146	4.466	4.466	0.000	93	260301	7.50	7.76	
*	22 1,4-Dichlorobenzene-d4	152	4.519	4.519	0.000	96	113947	5.00	5.00	
	23 1,4-Dichlorobenzene	146	4.536	4.536	0.000	90	266291	7.50	7.81	
	25 Benzyl alcohol	108	4.641	4.641	0.000	89	157143	7.50	7.58	
	24 1,2-Dichlorobenzene	146	4.682	4.682	0.000	92	250028	7.50	7.81	
	27 2-Methylphenol	108	4.734	4.734	0.000	96	222708	7.50	7.87	
	28 2,2'-oxybis[1-chloropropane]	45	4.775	4.775	0.000	91	298430	7.50	7.32	
	30 N-Nitrosopyrrolidine	100	4.874	4.874	0.000	91	129226	7.50	7.99	
	35 4-Methylphenol	108	4.880	4.880	0.000	96	231997	7.50	7.57	
	32 N-Nitrosodi-n-propylamine	70	4.892	4.892	0.000	72	222497	7.50	7.80	
	31 Acetophenone	105	4.898	4.898	0.000	92	378833	7.50	7.88	
	33 N-Nitrosomorpholine	56	4.915	4.915	0.000	91	156324	7.50	7.41	
	34 2-Toluidine	106	4.927	4.927	0.000	94	409294	7.50	7.91	
	36 Hexachloroethane	117	5.002	5.002	0.000	90	109962	7.50	7.53	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 37 Nitrobenzene-d5	82	5.043	5.043	0.000	87	644048	15.0	15.6	
38 Nitrobenzene	77	5.061	5.061	0.000	85	323648	7.50	7.58	
39 N-Nitrosopiperidine	114	5.206	5.206	0.000	83	120156	7.50	7.81	
40 Isophorone	82	5.288	5.288	0.000	96	545922	7.50	7.83	
41 2-Nitrophenol	139	5.364	5.364	0.000	89	110687	7.50	8.02	
42 2,4-Dimethylphenol	107	5.393	5.393	0.000	98	257198	7.50	7.79	
43 o,o',o''-Triethylphosphorothioat	198	5.469	5.469	0.000	80	141152	7.50	7.84	
44 Bis(2-chloroethoxy)methane	93	5.492	5.492	0.000	98	329486	7.50	7.66	
47 2,4-Dichlorophenol	162	5.585	5.585	0.000	95	195226	7.50	7.84	
48 1,2,4-Trichlorobenzene	180	5.673	5.673	0.000	92	239607	7.50	7.74	
* 49 Naphthalene-d8	136	5.731	5.731	0.000	99	398771	5.00	5.00	
50 Naphthalene	128	5.749	5.749	0.000	98	660202	7.50	7.76	
51 Alpha-Terpineol	59	5.754	5.754	0.000	91	212296	7.50	7.75	
52 4-Chloroaniline	127	5.795	5.795	0.000	93	273987	7.50	8.22	
53 2,6-Dichlorophenol	162	5.807	5.807	0.000	94	199582	7.50	8.05	
54 Hexachloropropene	213	5.836	5.836	0.000	87	192270	7.50	7.72	
55 Hexachlorobutadiene	225	5.865	5.865	0.000	93	166570	7.50	7.82	
56 Quinoline	129	6.063	6.063	0.000	94	404616	7.50	7.77	
57 Caprolactam	113	6.104	6.104	0.000	75	59933	7.50	7.62	
59 N-Nitrosodi-n-butylamine	84	6.122	6.122	0.000	90	239147	7.50	7.45	
58 p-Phenylene diamine	108	6.133	6.133	0.000	92	232554	7.50	7.94	
60 4-Chloro-3-methylphenol	107	6.250	6.250	0.000	92	216462	7.50	7.97	
61 Safrole, Total	162	6.326	6.326	0.000	86	176806	7.50	7.64	
62 2-Methylnaphthalene	142	6.407	6.407	0.000	93	416241	7.50	7.87	
63 1-Methylnaphthalene	142	6.500	6.500	0.000	93	414545	7.50	7.73	
64 Hexachlorocyclopentadiene	237	6.559	6.559	0.000	95	212746	7.50	7.64	
65 1,2,4,5-Tetrachlorobenzene	216	6.565	6.565	0.000	96	286032	7.50	7.50	
66 Isosafrole Peak 1	162	6.605	6.605	0.000	85	33163	1.20	1.27	
68 2,4,6-Trichlorophenol	196	6.669	6.669	0.000	93	160217	7.50	7.71	
69 2,4,5-Trichlorophenol	196	6.704	6.704	0.000	92	178900	7.50	7.90	
$ 70 2-Fluorobiphenyl (Surr)	172	6.757	6.757	0.000	100	1109574	15.0	15.1	
71 Isosafrole Peak 2	162	6.815	6.815	0.000	90	189911	6.30	6.31	
77 1,1'-Biphenyl	154	6.856	6.856	0.000	95	579412	7.50	7.58	
78 2-Chloronaphthalene	162	6.873	6.873	0.000	92	421883	7.50	7.10	
79 1-Chloronaphthalene	162	6.891	6.891	0.000	98	462502	7.50	8.00	
80 Phenyl ether	170	6.955	6.955	0.000	87	330551	7.50	7.60	
81 2-Nitroaniline	138	6.967	6.967	0.000	74	120303	7.50	7.97	
82 1,4-Naphthoquinone	158	7.037	7.037	0.000	82	164411	7.50	7.84	
83 1,4-Dinitrobenzene	168	7.101	7.101	0.000	85	67841	7.50	7.77	
84 Dimethyl phthalate	163	7.142	7.142	0.000	97	494990	7.50	7.56	
85 1,3-Dinitrobenzene	168	7.165	7.165	0.000	83	78091	7.50	7.81	
86 2,6-Dinitrotoluene	165	7.194	7.194	0.000	92	114165	7.50	7.95	
87 Acenaphthylene	152	7.264	7.264	0.000	99	639264	7.50	7.81	
88 3-Nitroaniline	138	7.351	7.351	0.000	86	105463	7.50	7.93	
* 89 Acenaphthene-d10	164	7.398	7.398	0.000	94	249681	5.00	5.00	
90 Acenaphthene	153	7.427	7.427	0.000	95	457154	7.50	7.71	
91 2,4-Dinitrophenol	184	7.450	7.450	0.000	84	173645	17.5	17.8	
93 4-Nitrophenol	109	7.497	7.497	0.000	83	167525	15.0	16.5	
92 Pentachlorobenzene	250	7.550	7.550	0.000	98	245064	7.50	7.60	
95 2,4-Dinitrotoluene	165	7.573	7.573	0.000	87	148974	7.50	8.08	
94 Dibenzofuran	168	7.590	7.590	0.000	97	647795	7.50	7.52	
96 1-Naphthylamine	143	7.666	7.666	0.000	98	416179	7.50	8.05	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
97 2,3,4,6-Tetrachlorophenol	232	7.701	7.701	0.000	71	167848	7.50	8.03	
98 2-Naphthylamine	143	7.742	7.742	0.000	96	447318	7.50	7.84	
99 Diethyl phthalate	149	7.812	7.812	0.000	97	483488	7.50	7.64	
101 Thionazin	107	7.888	7.888	0.000	78	81224	7.50	7.52	
100 Fluorene	166	7.917	7.917	0.000	93	528410	7.50	7.73	
102 4-Chlorophenyl phenyl ether	204	7.923	7.923	0.000	88	287804	7.50	7.64	
103 N-Nitro-o-toluidine	152	7.923	7.923	0.000	80	134807	7.50	8.09	
104 4-Nitroaniline	138	7.928	7.928	0.000	77	119486	7.50	8.24	
105 4,6-Dinitro-2-methylphenol	198	7.958	7.958	0.000	86	200127	15.0	15.7	
106 N-Nitrosodiphenylamine	169	8.028	8.028	0.000	63	360227	6.38	6.61	
107 1,2-Diphenylhydrazine	77	8.068	8.068	0.000	42	644571	7.50	7.89	
$ 108 2,4,6-Tribromophenol	330	8.144	8.144	0.000	94	187492	15.0	15.6	
109 Sulfotepp	97	8.185	8.185	0.000	79	95916	7.50	7.91	
110 1,3,5-Trinitrobenzene	213	8.266	8.266	0.000	82	54695	7.50	7.29	
111 cis-Diallate	86	8.307	8.307	0.000	0	189142	5.55	5.68	
112 Phorate	75	8.313	8.313	0.000	95	380788	7.50	8.16	
113 Phenacetin	108	8.319	8.319	0.000	94	236576	7.50	8.07	
114 4-Bromophenyl phenyl ether	248	8.383	8.383	0.000	64	188525	7.50	7.90	
115 trans-Diallate	86	8.395	8.395	0.000	0	67330	1.95	2.00	
116 Hexachlorobenzene	284	8.436	8.436	0.000	96	207799	7.50	7.67	
117 Dimethoate	87	8.470	8.470	0.000	97	213248	7.50	7.89	
118 Atrazine	200	8.540	8.540	0.000	94	163997	7.50	7.92	
119 Pentachlorophenol	266	8.616	8.616	0.000	92	248760	15.0	16.4	
121 4-Aminobiphenyl	169	8.628	8.628	0.000	91	595560	7.50	7.96	
120 Pentachloronitrobenzene	237	8.634	8.634	0.000	89	90585	7.50	7.92	
122 Pronamide	173	8.686	8.686	0.000	90	224392	7.50	8.13	
125 Dinoseb	211	8.797	8.797	0.000	95	137221	7.50	7.41	
* 123 Phenanthrene-d10	188	8.809	8.809	0.000	97	496244	5.00	5.00	
126 Disulfoton	88	8.814	8.814	0.000	96	368300	7.50	7.81	
124 Phenanthrene	178	8.826	8.826	0.000	97	806445	7.50	7.64	
127 Anthracene	178	8.878	8.878	0.000	97	805641	7.50	7.86	
128 Carbazole	167	9.030	9.030	0.000	96	701800	7.50	8.04	
129 Methyl parathion	109	9.164	9.164	0.000	93	145614	7.50	7.30	
130 Di-n-butyl phthalate	149	9.374	9.374	0.000	100	761612	7.50	8.13	
132 Ethyl Parathion	109	9.537	9.537	0.000	84	88995	7.50	7.69	
131 4-Nitroquinoline-1-oxide	190	9.560	9.560	0.000	77	51941	7.50	7.14	
S 67 Diallate	86				0		7.50	7.67	
134 Octachlorostyrene	308	9.776	9.776	0.000	91	78238	7.50	7.58	
135 Isodrin	193	9.817	9.817	0.000	93	101682	7.50	7.40	
136 Fluoranthene	202	9.957	9.957	0.000	97	899529	7.50	7.90	
137 Benzidine	184	10.091	10.091	0.000	100	1659158	22.5	24.1	
* 138 Pyrene-d10 (IS)	212	10.155	10.155	0.000	98	525478	5.00	5.00	
139 Pyrene	202	10.178	10.178	0.000	98	965556	7.50	7.57	
$ 142 p-Terphenyl-d14	244	10.336	10.336	0.000	99	1515548	15.0	15.7	
145 p-Dimethylamino azobenzene	225	10.476	10.476	0.000	90	152584	7.50	7.13	
146 Chlorobenzilate	139	10.528	10.528	0.000	96	230300	7.50	7.93	
148 3,3'-Dimethylbenzidine	212	10.831	10.831	0.000	99	505466	7.50	7.53	
150 Butyl benzyl phthalate	149	10.860	10.860	0.000	95	328343	7.50	7.90	
151 2-Acetylaminofluorene	181	11.105	11.105	0.000	93	240797	7.50	7.00	
153 3,3'-Dichlorobenzidine	252	11.449	11.449	0.000	74	336691	7.50	7.84	
154 4,4'-Methylene bis(2-chloroani	231	11.461	11.461	0.000	95	182560	7.50	7.92	
152 Benzo[a]anthracene	228	11.466	11.466	0.000	97	930058	7.50	8.09	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
155 Chrysene	228	11.513	11.513	0.000	96	925780	7.50	7.78	
156 Bis(2-ethylhexyl) phthalate	149	11.542	11.542	0.000	97	423765	7.50	9.05	
157 6-Methylchrysene	242	12.090	12.090	0.000	98	607905	7.50	7.80	
158 Di-n-octyl phthalate	149	12.422	12.422	0.000	99	576412	7.50	8.69	
159 Benzo[b]fluoranthene	252	12.889	12.889	0.000	95	902134	7.50	8.08	
160 7,12-Dimethylbenz(a)anthracene	256	12.889	12.889	0.000	72	371101	7.50	8.25	
161 Benzo[k]fluoranthene	252	12.929	12.929	0.000	98	906875	7.50	8.02	
162 Benzo[a]pyrene	252	13.355	13.355	0.000	75	692743	7.50	7.84	
* 163 Perylene-d12	264	13.436	13.436	0.000	98	424369	5.00	5.00	
164 3-Methylcholanthrene	268	13.874	13.874	0.000	90	370670	7.50	7.74	
165 Dibenz[a,h]acridine	279	14.672	14.672	0.000	89	547456	7.50	7.97	
166 Dibenz[a,j]acridine	279	14.736	14.736	0.000	96	658017	7.50	8.36	
167 Indeno[1,2,3-cd]pyrene	276	14.975	14.975	0.000	97	622552	7.50	7.99	
168 Dibenz(a,h)anthracene	278	15.016	15.016	0.000	91	731044	7.50	7.96	
169 Benzo[g,h,i]perylene	276	15.360	15.360	0.000	97	756415	7.50	7.91	
S 170 Aramite, Total	185		44.000				7.50	ND	
S 173 Dinitrotoluene	165				0			16.0	
S 177 Isosafrole	162				0		7.50	7.58	

QC Flag Legend

Processing Flags

Reagents:

MSS_RV8270_5_00034 Amount Added: 1.00 Units: mL

Report Date: 08-Nov-2022 11:34:53 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0706.D

Injection Date: 07-Nov-2022 20:44:30 Instrument ID: HP19760 Operator ID: kel10217

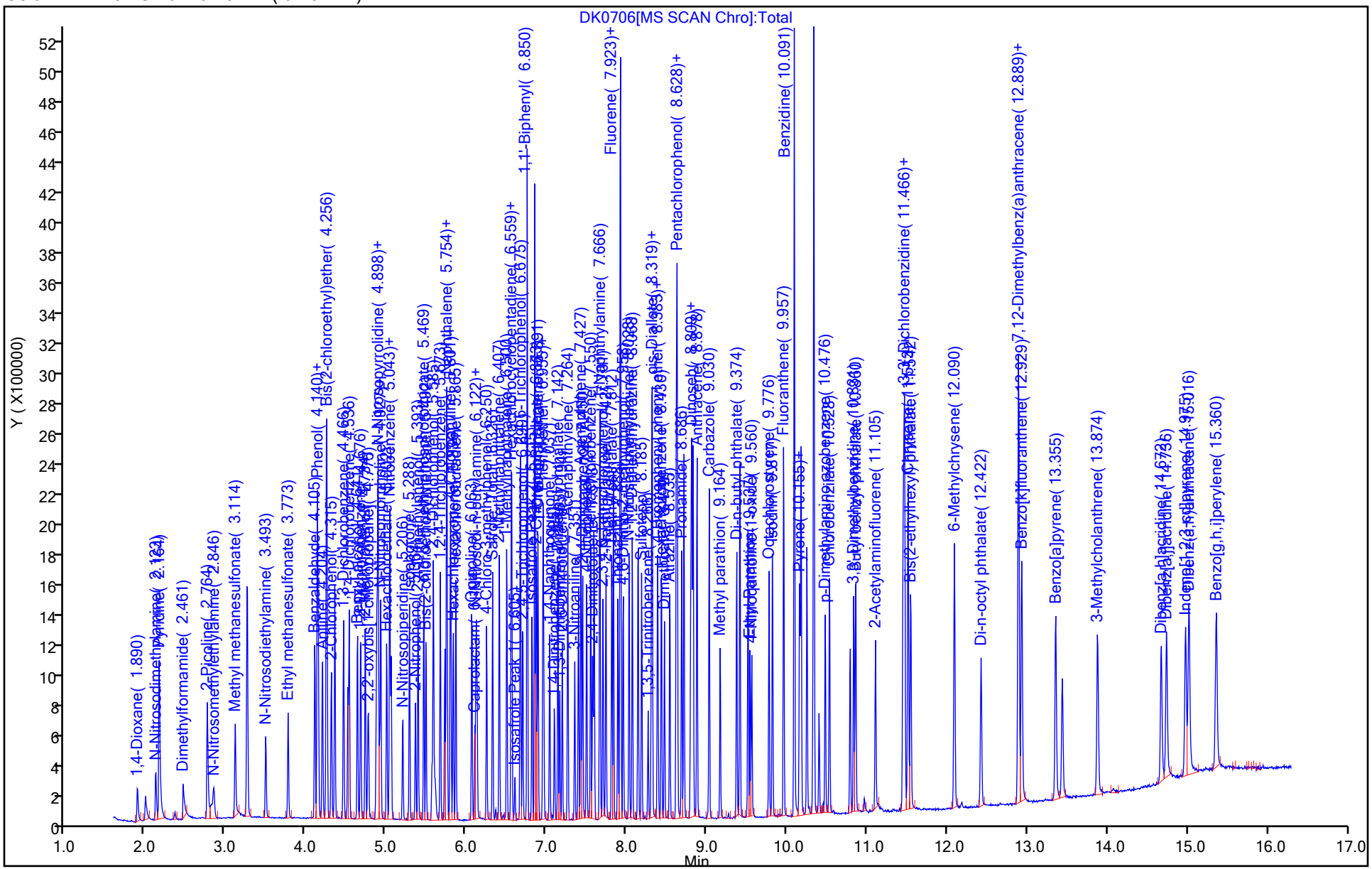
Lims ID: IC L5 Worklist Smp#: 7

Client ID:

Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 7

Method: MSSemi_HP19760 Limit Group: MSSV - 8270D_E LVI

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0707.D
Lims ID: IC L4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 07-Nov-2022 21:04:30 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L4
Misc. Info.: 410-0070576-008
Operator ID: kel10217 Instrument ID: HP19760
Sublist: chrom-MSSemi_HP19760*sub24

Method: \\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\MSSemi_HP19760.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 08-Nov-2022 11:35:01 Calib Date: 08-Nov-2022 01:34:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0720.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1681

First Level Reviewer: SJ89 Date: 07-Nov-2022 21:47:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
2 1,4-Dioxane	88	1.896	1.896	0.000	95	52979	3.75	3.52	
3 N-Nitrosodimethylamine	74	2.123	2.123	0.000	93	84839	3.75	3.23	
4 Pyridine	79	2.170	2.164	0.006	96	266973	7.50	6.64	
5 Dimethylformamide	73	2.479	2.461	0.018	94	79312	3.75	3.13	
6 2-Picoline	93	2.764	2.764	0.000	90	135562	3.75	3.40	
7 N-Nitrosomethylethylamine	88	2.846	2.846	0.000	96	59736	3.75	3.36	
8 Methyl methanesulfonate	80	3.114	3.114	0.000	86	83107	3.75	3.52	
$ 10 2-Fluorophenol	112	3.260	3.260	0.000	93	215227	7.50	6.76	
11 N-Nitrosodiethylamine	102	3.493	3.493	0.000	97	53663	3.75	3.39	
12 Ethyl methanesulfonate	109	3.773	3.773	0.000	98	61024	3.75	3.52	
14 Benzaldehyde	77	4.105	4.105	0.000	95	125752	3.75	3.73	
$ 17 Phenol-d5	99	4.140	4.140	0.000	94	291811	7.50	6.72	
18 Phenol	94	4.151	4.151	0.000	93	153484	3.75	3.48	
16 Aniline	93	4.198	4.204	-0.006	95	183583	3.75	3.51	
19 Bis(2-chloroethyl)ether	93	4.256	4.262	-0.006	95	123451	3.75	3.48	
20 2-Chlorophenol	128	4.315	4.315	0.000	91	100194	3.75	3.50	
21 1,3-Dichlorobenzene	146	4.466	4.466	0.000	93	115485	3.75	3.37	
* 22 1,4-Dichlorobenzene-d4	152	4.519	4.519	0.000	97	116298	5.00	5.00	
23 1,4-Dichlorobenzene	146	4.536	4.536	0.000	90	119862	3.75	3.45	
25 Benzyl alcohol	108	4.641	4.641	0.000	88	70861	3.75	3.35	
24 1,2-Dichlorobenzene	146	4.676	4.682	-0.006	93	112499	3.75	3.44	
27 2-Methylphenol	108	4.734	4.734	0.000	96	96789	3.75	3.35	
28 2,2'-oxybis[1-chloropropane]	45	4.775	4.775	0.000	91	131114	3.75	3.15	
30 N-Nitrosopyrrolidine	100	4.874	4.874	0.000	88	57170	3.75	3.47	
35 4-Methylphenol	108	4.880	4.880	0.000	95	100946	3.75	3.23	
32 N-Nitrosodi-n-propylamine	70	4.892	4.892	0.000	76	98234	3.75	3.37	
31 Acetophenone	105	4.897	4.898	-0.001	96	166998	3.75	3.40	
33 N-Nitrosomorpholine	56	4.909	4.915	-0.006	92	70208	3.75	3.26	
34 2-Toluidine	106	4.927	4.927	0.000	95	179758	3.75	3.40	
36 Hexachloroethane	117	5.002	5.002	0.000	90	51304	3.75	3.44	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 37 Nitrobenzene-d5	82	5.043	5.043	0.000	87	287832	7.50	6.48	
38 Nitrobenzene	77	5.061	5.061	0.000	85	142898	3.75	3.11	
39 N-Nitrosopiperidine	114	5.201	5.206	-0.005	84	52610	3.75	3.17	
40 Isophorone	82	5.288	5.288	0.000	96	243279	3.75	3.24	
41 2-Nitrophenol	139	5.364	5.364	0.000	85	45064	3.75	3.03	
42 2,4-Dimethylphenol	107	5.393	5.393	0.000	98	118039	3.75	3.32	
43 o,o',o''-Triethylphosphorothioat	198	5.469	5.469	0.000	80	62743	3.75	3.23	
44 Bis(2-chloroethoxy)methane	93	5.492	5.492	0.000	99	147684	3.75	3.19	
47 2,4-Dichlorophenol	162	5.585	5.585	0.000	96	83685	3.75	3.12	
48 1,2,4-Trichlorobenzene	180	5.673	5.673	0.000	92	109373	3.75	3.28	
* 49 Naphthalene-d8	136	5.731	5.731	0.000	99	429637	5.00	5.00	
50 Naphthalene	128	5.748	5.749	-0.001	98	297002	3.75	3.24	
51 Alpha-Terpineol	59	5.754	5.754	0.000	91	92905	3.75	3.15	
52 4-Chloroaniline	127	5.795	5.795	0.000	93	119961	3.75	3.34	
53 2,6-Dichlorophenol	162	5.807	5.807	0.000	91	85958	3.75	3.22	
54 Hexachloropropene	213	5.836	5.836	0.000	86	83833	3.75	3.13	
55 Hexachlorobutadiene	225	5.865	5.865	0.000	94	72829	3.75	3.17	
56 Quinoline	129	6.063	6.063	0.000	94	179823	3.75	3.20	
57 Caprolactam	113	6.104	6.104	0.000	79	28577	3.75	3.37	
59 N-Nitrosodi-n-butylamine	84	6.122	6.122	0.000	89	107909	3.75	3.12	
58 p-Phenylene diamine	108	6.133	6.133	0.000	94	100341	3.75	3.18	
60 4-Chloro-3-methylphenol	107	6.250	6.250	0.000	93	90742	3.75	3.10	
61 Safrole, Total	162	6.326	6.326	0.000	88	80966	3.75	3.25	
62 2-Methylnaphthalene	142	6.407	6.407	0.000	92	178247	3.75	3.13	
63 1-Methylnaphthalene	142	6.500	6.500	0.000	94	190848	3.75	3.30	
64 Hexachlorocyclopentadiene	237	6.559	6.559	0.000	93	94389	3.75	3.46	
65 1,2,4,5-Tetrachlorobenzene	216	6.564	6.565	-0.001	96	127240	3.75	3.41	
66 Isosafrole Peak 1	162	6.605	6.605	0.000	87	14906	0.6000	0.5848	
68 2,4,6-Trichlorophenol	196	6.669	6.669	0.000	93	69413	3.75	3.41	
69 2,4,5-Trichlorophenol	196	6.699	6.704	-0.005	93	77343	3.75	3.49	
$ 70 2-Fluorobiphenyl (Surr)	172	6.757	6.757	0.000	100	500424	7.50	6.97	
71 Isosafrole Peak 2	162	6.815	6.815	0.000	90	84644	3.15	2.87	
77 1,1'-Biphenyl	154	6.850	6.856	-0.006	96	258957	3.75	3.46	
78 2-Chloronaphthalene	162	6.868	6.873	-0.005	94	197274	3.75	3.39	
79 1-Chloronaphthalene	162	6.891	6.891	0.000	98	200600	3.75	3.54	
80 Phenyl ether	170	6.955	6.955	0.000	87	146455	3.75	3.44	
81 2-Nitroaniline	138	6.961	6.967	-0.006	74	48249	3.75	3.26	
82 1,4-Naphthoquinone	158	7.037	7.037	0.000	80	69401	3.75	3.38	
83 1,4-Dinitrobenzene	168	7.095	7.101	-0.006	84	28045	3.75	3.28	
84 Dimethyl phthalate	163	7.142	7.142	0.000	97	226037	3.75	3.52	
85 1,3-Dinitrobenzene	168	7.165	7.165	0.000	84	33027	3.75	3.37	
86 2,6-Dinitrotoluene	165	7.194	7.194	0.000	90	49280	3.75	3.50	
87 Acenaphthylene	152	7.264	7.264	0.000	99	282806	3.75	3.53	
88 3-Nitroaniline	138	7.351	7.351	0.000	85	43813	3.75	3.36	
* 89 Acenaphthene-d10	164	7.398	7.398	0.000	94	244552	5.00	5.00	
90 Acenaphthene	153	7.427	7.427	0.000	96	202919	3.75	3.49	
91 2,4-Dinitrophenol	184	7.450	7.450	0.000	85	94681	11.3	9.91	
93 4-Nitrophenol	109	7.497	7.497	0.000	84	68850	7.50	6.91	
92 Pentachlorobenzene	250	7.550	7.550	0.000	97	112551	3.75	3.56	
95 2,4-Dinitrotoluene	165	7.573	7.573	0.000	88	62617	3.75	3.47	
94 Dibenzofuran	168	7.590	7.590	0.000	96	288932	3.75	3.42	
96 1-Naphthylamine	143	7.666	7.666	0.000	98	182339	3.75	3.60	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
97 2,3,4,6-Tetrachlorophenol	232	7.701	7.701	0.000	71	72958	3.75	3.56	
98 2-Naphthylamine	143	7.736	7.742	-0.006	96	189789	3.75	3.40	
99 Diethyl phthalate	149	7.812	7.812	0.000	97	214138	3.75	3.45	
101 Thionazin	107	7.888	7.888	0.000	79	34443	3.75	3.26	
100 Fluorene	166	7.917	7.917	0.000	94	235714	3.75	3.52	
102 4-Chlorophenyl phenyl ether	204	7.923	7.923	0.000	87	133192	3.75	3.61	
103 N-Nitro-o-toluidine	152	7.923	7.923	0.000	73	56645	3.75	3.47	
104 4-Nitroaniline	138	7.923	7.928	-0.005	75	49733	3.75	3.50	
105 4,6-Dinitro-2-methylphenol	198	7.958	7.958	0.000	86	81689	7.50	6.28	
106 N-Nitrosodiphenylamine	169	8.027	8.028	-0.001	63	163019	3.19	2.93	
107 1,2-Diphenylhydrazine	77	8.068	8.068	0.000	42	283004	3.75	3.40	
$ 108 2,4,6-Tribromophenol	330	8.144	8.144	0.000	94	81712	7.50	6.96	
109 Sulfotepp	97	8.185	8.185	0.000	78	39806	3.75	3.22	
110 1,3,5-Trinitrobenzene	213	8.266	8.266	0.000	82	22154	3.75	3.25	
111 cis-Diallate	86	8.307	8.307	0.000	0	81471	2.78	2.40	
112 Phorate	75	8.313	8.313	0.000	93	159372	3.75	3.35	
113 Phenacetin	108	8.313	8.319	-0.006	71	98769	3.75	3.30	
114 4-Bromophenyl phenyl ether	248	8.383	8.383	0.000	64	83679	3.75	3.44	
115 trans-Diallate	86	8.389	8.395	-0.006	0	29912	0.9750	0.8700	
116 Hexachlorobenzene	284	8.430	8.436	-0.006	94	90900	3.75	3.29	
117 Dimethoate	87	8.470	8.470	0.000	97	88326	3.75	3.20	
118 Atrazine	200	8.535	8.540	-0.005	93	76085	3.75	3.60	
119 Pentachlorophenol	266	8.616	8.616	0.000	93	105132	7.50	6.78	
121 4-Aminobiphenyl	169	8.628	8.628	0.000	91	255301	3.75	3.35	
120 Pentachloronitrobenzene	237	8.628	8.634	-0.006	49	40194	3.75	3.45	
122 Pronamide	173	8.686	8.686	0.000	90	95633	3.75	3.40	
125 Dinoseb	211	8.797	8.797	0.000	95	53285	3.75	3.18	
* 123 Phenanthrene-d10	188	8.803	8.809	-0.006	97	506053	5.00	5.00	
126 Disulfoton	88	8.814	8.814	0.000	94	161106	3.75	3.35	
124 Phenanthrene	178	8.826	8.826	0.000	97	361400	3.75	3.36	
127 Anthracene	178	8.878	8.878	0.000	98	346907	3.75	3.32	
128 Carbazole	167	9.030	9.030	0.000	96	303248	3.75	3.40	
129 Methyl parathion	109	9.164	9.164	0.000	92	58083	3.75	3.22	
130 Di-n-butyl phthalate	149	9.374	9.374	0.000	100	321530	3.75	3.37	
132 Ethyl Parathion	109	9.537	9.537	0.000	83	34532	3.75	2.93	
131 4-Nitroquinoline-1-oxide	190	9.560	9.560	0.000	72	19610	3.75	3.85	
S 67 Diallate	86				0		3.75	3.27	
134 Octachlorostyrene	308	9.776	9.776	0.000	89	35623	3.75	3.38	
135 Isodrin	193	9.817	9.817	0.000	91	44870	3.75	3.20	
136 Fluoranthene	202	9.957	9.957	0.000	97	392625	3.75	3.38	
137 Benzidine	184	10.091	10.091	0.000	99	672613	11.3	9.73	
* 138 Pyrene-d10 (IS)	212	10.155	10.155	0.000	98	527682	5.00	5.00	
139 Pyrene	202	10.172	10.178	-0.006	98	433084	3.75	3.38	
$ 142 p-Terphenyl-d14	244	10.336	10.336	0.000	99	665243	7.50	6.88	
145 p-Dimethylamino azobenzene	225	10.481	10.476	0.005	92	57361	3.75	3.16	
146 Chlorobenzilate	139	10.528	10.528	0.000	96	92267	3.75	3.17	
148 3,3'-Dimethylbenzidine	212	10.831	10.831	0.000	99	209034	3.75	3.10	
150 Butyl benzyl phthalate	149	10.860	10.860	0.000	96	133120	3.75	3.19	
151 2-Acetylaminofluorene	181	11.105	11.105	0.000	93	90578	3.75	2.62	
153 3,3'-Dichlorobenzidine	252	11.449	11.449	0.000	72	135876	3.75	3.15	
154 4,4'-Methylene bis(2-chloroani	231	11.455	11.461	-0.006	95	73135	3.75	3.16	
152 Benzo[a]anthracene	228	11.466	11.466	0.000	97	397601	3.75	3.44	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
155 Chrysene	228	11.513	11.513	0.000	96	407618	3.75	3.41	
156 Bis(2-ethylhexyl) phthalate	149	11.542	11.542	0.000	97	161714	3.75	3.44	M
157 6-Methylchrysene	242	12.090	12.090	0.000	98	259222	3.75	3.31	
158 Di-n-octyl phthalate	149	12.422	12.422	0.000	100	203919	3.75	3.09	
159 Benzo[b]fluoranthene	252	12.889	12.889	0.000	95	371239	3.75	3.34	
160 7,12-Dimethylbenz(a)anthracene	256	12.889	12.889	0.000	76	146500	3.75	3.27	
161 Benzo[k]fluoranthene	252	12.929	12.929	0.000	97	410331	3.75	3.65	
162 Benzo[a]pyrene	252	13.355	13.355	0.000	75	299191	3.75	3.40	
* 163 Perylene-d12	264	13.436	13.436	0.000	99	422190	5.00	5.00	
164 3-Methylcholanthrene	268	13.874	13.874	0.000	90	145020	3.75	3.04	
165 Dibenz[a,h]acridine	279	14.672	14.672	0.000	90	213613	3.75	3.12	
166 Dibenz[a,j]acridine	279	14.736	14.736	0.000	96	264861	3.75	3.38	
167 Indeno[1,2,3-cd]pyrene	276	14.975	14.975	0.000	97	264140	3.75	3.41	
168 Dibenz(a,h)anthracene	278	15.016	15.016	0.000	91	309123	3.75	3.38	
169 Benzo[g,h,i]perylene	276	15.354	15.360	-0.006	97	319970	3.75	3.36	
S 170 Aramite, Total	185		44.000				3.75	ND	
S 173 Dinitrotoluene	165				0			6.97	
S 177 Isosafrole	162				0		3.75	3.46	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RV8270_4_00024 Amount Added: 1.00 Units: mL

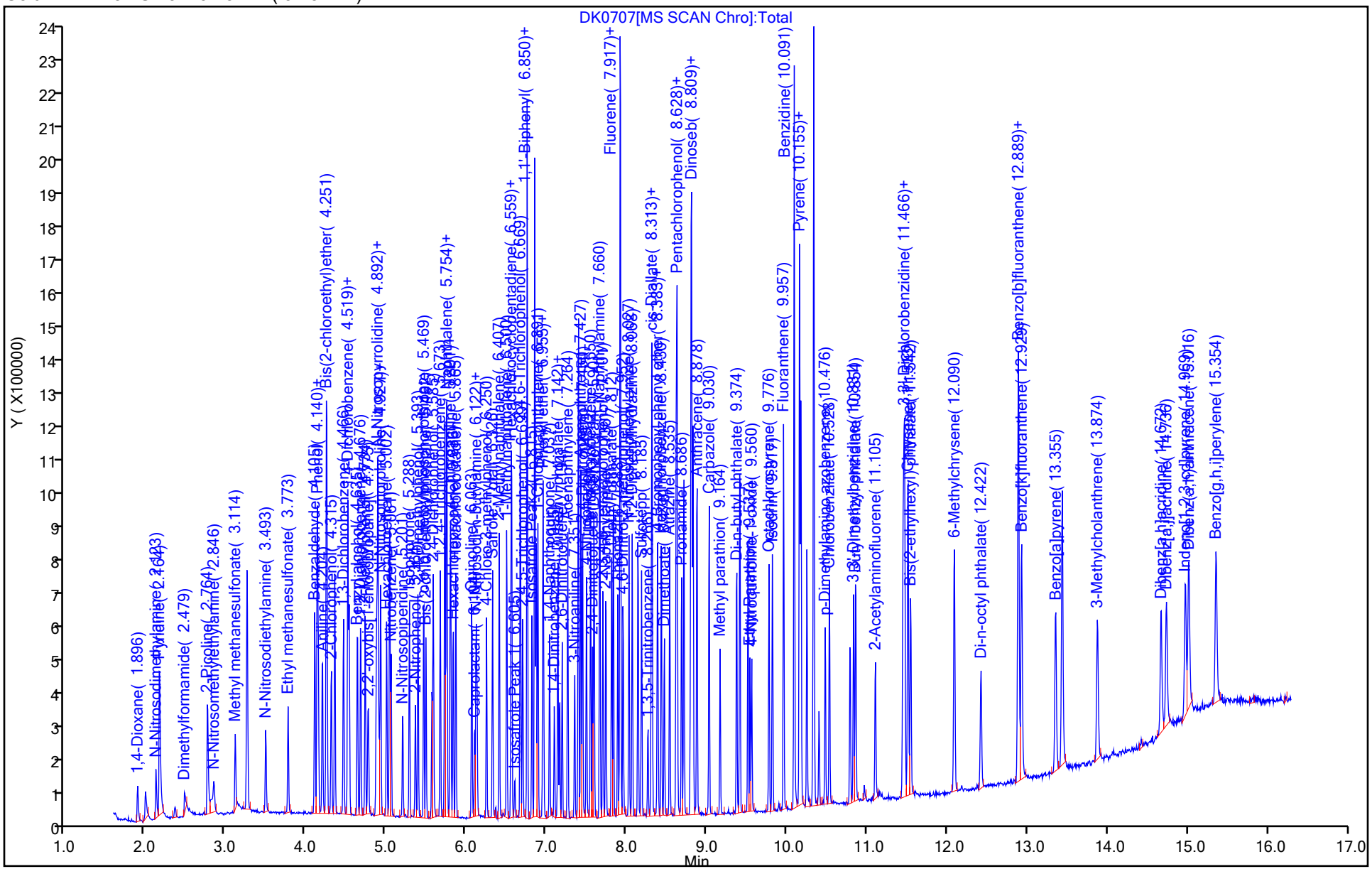
Report Date: 08-Nov-2022 11:35:02 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0707.D

Injection Date:	07-Nov-2022 21:04:30	Instrument ID:	HP19760	Operator ID:	kel10217
Lims ID:	IC L4			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	MSSemi_HP19760	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

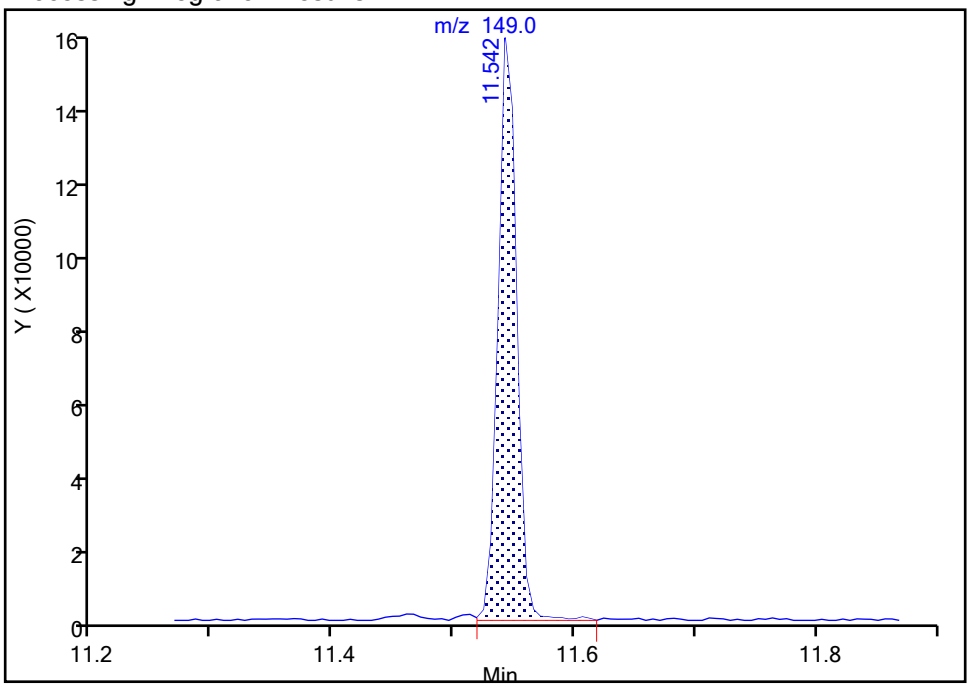
Data File:	\\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0707.D				
Injection Date:	07-Nov-2022 21:04:30	Instrument ID:	HP19760		
Lims ID:	IC L4				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP19760	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

156 Bis(2-ethylhexyl) phthalate, CAS: 117-81-7

Signal: 1

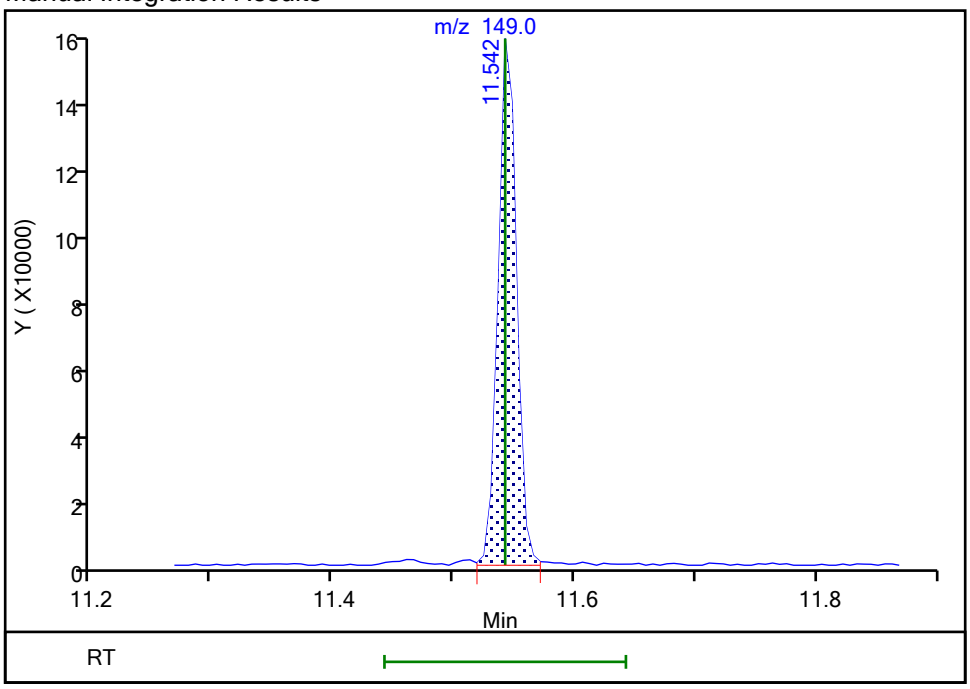
Processing Integration Results

RT: 11.54
Area: 163418
Amount: 3.065799
Amount Units: ug/ml



Manual Integration Results

RT: 11.54
Area: 161714
Amount: 3.439179
Amount Units: ug/ml



Reviewer: SJ89, 07-Nov-2022 22:50:53
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\HP19760\20221107-70576.b\DK0708.D
Lims ID: IC L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 07-Nov-2022 21:25:30 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L3
Misc. Info.: 410-0070576-009
Operator ID: kel10217 Instrument ID: HP19760
Sublist: chrom-MSSemi_HP19760*sub24

Method: \\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\MSSemi_HP19760.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 08-Nov-2022 11:35:12 Calib Date: 08-Nov-2022 01:34:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0720.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1681

First Level Reviewer: SJ89 Date: 07-Nov-2022 22:50:39

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	2 1,4-Dioxane	88	1.896	1.896	0.000	93	19208	1.25	1.22	
	3 N-Nitrosodimethylamine	74	2.129	2.123	0.006	91	32764	1.25	1.20	
	4 Pyridine	79	2.170	2.164	0.006	95	96640	2.50	2.31	
	5 Dimethylformamide	73	2.513	2.461	0.052	87	34919	1.25	1.32	M
	6 2-Picoline	93	2.770	2.764	0.006	88	50850	1.25	1.22	
	7 N-Nitrosomethylethylamine	88	2.846	2.846	0.000	93	25993	1.25	1.40	
	8 Methyl methanesulfonate	80	3.114	3.114	0.000	86	29536	1.25	1.20	
$	10 2-Fluorophenol	112	3.260	3.260	0.000	92	79137	2.50	2.38	
	11 N-Nitrosodiethylamine	102	3.493	3.493	0.000	96	18613	1.25	1.13	
	12 Ethyl methanesulfonate	109	3.772	3.773	-0.001	97	20664	1.25	1.14	
	14 Benzaldehyde	77	4.105	4.105	0.000	95	44786	1.25	1.27	
$	17 Phenol-d5	99	4.134	4.140	-0.006	94	103400	2.50	2.28	
	18 Phenol	94	4.151	4.151	0.000	92	53123	1.25	1.15	
	16 Aniline	93	4.198	4.204	-0.006	94	65172	1.25	1.20	
	19 Bis(2-chloroethyl)ether	93	4.256	4.262	-0.006	93	44945	1.25	1.21	
	20 2-Chlorophenol	128	4.315	4.315	-0.001	92	33583	1.25	1.12	
	21 1,3-Dichlorobenzene	146	4.466	4.466	0.000	94	44708	1.25	1.25	
*	22 1,4-Dichlorobenzene-d4	152	4.519	4.519	-0.001	96	121215	5.00	5.00	
	23 1,4-Dichlorobenzene	146	4.536	4.536	0.000	92	43783	1.25	1.21	
	25 Benzyl alcohol	108	4.635	4.641	-0.006	88	25438	1.25	1.15	
	24 1,2-Dichlorobenzene	146	4.676	4.682	-0.006	89	41267	1.25	1.21	
	27 2-Methylphenol	108	4.734	4.734	0.000	93	33778	1.25	1.12	
	28 2,2'-oxybis[1-chloropropane]	45	4.769	4.775	-0.006	91	49900	1.25	1.15	
	30 N-Nitrosopyrrolidine	100	4.874	4.874	0.000	93	20643	1.25	1.20	
	35 4-Methylphenol	108	4.880	4.880	0.000	95	35921	1.25	1.10	
	32 N-Nitrosodi-n-propylamine	70	4.892	4.892	0.000	74	36004	1.25	1.19	
	31 Acetophenone	105	4.897	4.898	-0.001	96	60970	1.25	1.19	
	33 N-Nitrosomorpholine	56	4.909	4.915	-0.006	83	22353	1.25	1.00	
	34 2-Toluidine	106	4.927	4.927	0.000	95	62683	1.25	1.14	
	36 Hexachloroethane	117	5.002	5.002	0.000	88	17662	1.25	1.14	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 37 Nitrobenzene-d5	82	5.037	5.043	-0.006	87	105981	2.50	2.39	
38 Nitrobenzene	77	5.061	5.061	0.000	86	48824	1.25	1.06	
39 N-Nitrosopiperidine	114	5.206	5.206	0.000	84	19202	1.25	1.16	
40 Isophorone	82	5.288	5.288	0.000	96	87697	1.25	1.17	
41 2-Nitrophenol	139	5.364	5.364	0.000	86	15218	1.25	1.03	
42 2,4-Dimethylphenol	107	5.393	5.393	0.000	96	39555	1.25	1.11	
43 o,o',o''-Triethylphosphorothioat	198	5.463	5.469	-0.006	82	23232	1.25	1.20	
44 Bis(2-chloroethoxy)methane	93	5.492	5.492	0.000	96	50096	1.25	1.08	
47 2,4-Dichlorophenol	162	5.585	5.585	0.000	95	29396	1.25	1.10	
48 1,2,4-Trichlorobenzene	180	5.673	5.673	0.000	91	40075	1.25	1.20	
* 49 Naphthalene-d8	136	5.731	5.731	0.000	100	428633	5.00	5.00	
50 Naphthalene	128	5.748	5.749	-0.001	97	111084	1.25	1.22	
51 Alpha-Terpineol	59	5.754	5.754	0.000	89	33891	1.25	1.15	
52 4-Chloroaniline	127	5.795	5.795	0.000	91	41769	1.25	1.17	
53 2,6-Dichlorophenol	162	5.801	5.807	-0.006	87	28320	1.25	1.06	
54 Hexachloropropene	213	5.836	5.836	0.000	87	29705	1.25	1.11	
55 Hexachlorobutadiene	225	5.865	5.865	0.000	93	27571	1.25	1.20	
56 Quinoline	129	6.063	6.063	0.000	93	62723	1.25	1.12	
57 Caprolactam	113	6.098	6.104	-0.006	78	7941	1.25	0.9395	
59 N-Nitrosodi-n-butylamine	84	6.116	6.122	-0.006	90	33463	1.25	0.9698	
58 p-Phenylene diamine	108	6.127	6.133	-0.006	93	34354	1.25	1.09	
60 4-Chloro-3-methylphenol	107	6.250	6.250	0.000	92	32627	1.25	1.12	
61 Safrole, Total	162	6.325	6.326	-0.001	87	28673	1.25	1.15	
62 2-Methylnaphthalene	142	6.407	6.407	0.000	92	67497	1.25	1.19	
63 1-Methylnaphthalene	142	6.500	6.500	0.000	91	67751	1.25	1.18	
64 Hexachlorocyclopentadiene	237	6.559	6.559	0.000	92	35171	1.25	1.24	
65 1,2,4,5-Tetrachlorobenzene	216	6.564	6.565	-0.001	96	46999	1.25	1.21	
66 Isosafrole Peak 1	162	6.605	6.605	0.000	83	5029	0.2000	0.1893	
68 2,4,6-Trichlorophenol	196	6.669	6.669	0.000	91	24732	1.25	1.17	
69 2,4,5-Trichlorophenol	196	6.698	6.704	-0.006	91	25064	1.25	1.08	
$ 70 2-Fluorobiphenyl (Surr)	172	6.757	6.757	0.000	100	185466	2.50	2.48	
71 Isosafrole Peak 2	162	6.815	6.815	0.000	89	28939	1.05	0.9414	
77 1,1'-Biphenyl	154	6.850	6.856	-0.006	96	94595	1.25	1.21	
78 2-Chloronaphthalene	162	6.867	6.873	-0.006	95	71007	1.25	1.17	
79 1-Chloronaphthalene	162	6.891	6.891	0.000	98	71685	1.25	1.21	
80 Phenyl ether	170	6.955	6.955	0.000	87	54845	1.25	1.24	
81 2-Nitroaniline	138	6.961	6.967	-0.006	72	16966	1.25	1.10	
82 1,4-Naphthoquinone	158	7.036	7.037	-0.001	82	24721	1.25	1.16	
83 1,4-Dinitrobenzene	168	7.095	7.101	-0.006	83	8760	1.25	0.9828	
84 Dimethyl phthalate	163	7.141	7.142	-0.001	96	76610	1.25	1.15	
85 1,3-Dinitrobenzene	168	7.165	7.165	0.000	82	10151	1.25	0.99	
86 2,6-Dinitrotoluene	165	7.194	7.194	0.000	89	16186	1.25	1.10	
87 Acenaphthylene	152	7.264	7.264	0.000	99	98480	1.25	1.18	
88 3-Nitroaniline	138	7.351	7.351	0.000	87	15622	1.25	1.15	
* 89 Acenaphthene-d10	164	7.398	7.398	0.000	94	254916	5.00	5.00	
90 Acenaphthene	153	7.427	7.427	0.000	95	74087	1.25	1.22	
91 2,4-Dinitrophenol	184	7.450	7.450	0.000	80	37675	5.00	3.78	
93 4-Nitrophenol	109	7.497	7.497	0.000	82	35046	3.75	3.38	
92 Pentachlorobenzene	250	7.549	7.550	-0.001	98	41470	1.25	1.26	
95 2,4-Dinitrotoluene	165	7.573	7.573	0.000	88	19840	1.25	1.05	
94 Dibenzofuran	168	7.590	7.590	0.000	98	108069	1.25	1.23	
96 1-Naphthylamine	143	7.666	7.666	0.000	97	58804	1.25	1.11	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
97 2,3,4,6-Tetrachlorophenol	232	7.701	7.701	0.000	71	25871	1.25	1.21	
98 2-Naphthylamine	143	7.736	7.742	-0.006	95	67033	1.25	1.15	
99 Diethyl phthalate	149	7.812	7.812	0.000	98	77408	1.25	1.20	
101 Thionazin	107	7.887	7.888	-0.001	77	11878	1.25	1.08	
100 Fluorene	166	7.917	7.917	0.000	91	81649	1.25	1.17	
102 4-Chlorophenyl phenyl ether	204	7.917	7.923	-0.006	83	48554	1.25	1.26	
103 N-Nitro-o-toluidine	152	7.922	7.923	-0.001	72	18026	1.25	1.06	
104 4-Nitroaniline	138	7.922	7.928	-0.006	75	16644	1.25	1.12	
105 4,6-Dinitro-2-methylphenol	198	7.957	7.958	-0.001	85	41521	3.75	3.09	
106 N-Nitrosodiphenylamine	169	8.027	8.028	-0.001	64	55355	1.06	0.9627	
107 1,2-Diphenylhydrazine	77	8.068	8.068	0.000	41	95470	1.25	1.11	
$ 108 2,4,6-Tribromophenol	330	8.138	8.144	-0.006	93	28026	2.50	2.29	
109 Sulfotepp	97	8.185	8.185	0.000	77	14477	1.25	1.13	
110 1,3,5-Trinitrobenzene	213	8.266	8.266	0.000	81	6206	1.25	1.30	
111 cis-Diallate	86	8.307	8.307	0.000	0	27883	0.9250	0.7935	
112 Phorate	75	8.313	8.313	0.000	93	52185	1.25	1.06	
113 Phenacetin	108	8.313	8.319	-0.006	71	31003	1.25	1.00	
114 4-Bromophenyl phenyl ether	248	8.383	8.383	0.000	64	29806	1.25	1.18	
115 trans-Diallate	86	8.389	8.395	-0.006	0	13042	0.3250	0.3668	
116 Hexachlorobenzene	284	8.430	8.436	-0.006	95	35424	1.25	1.24	
117 Dimethoate	87	8.465	8.470	-0.006	96	29180	1.25	1.02	
118 Atrazine	200	8.534	8.540	-0.006	93	24487	1.25	1.12	
119 Pentachlorophenol	266	8.616	8.616	0.000	93	33789	2.50	2.11	
121 4-Aminobiphenyl	169	8.628	8.628	0.000	91	83819	1.25	1.06	
120 Pentachloronitrobenzene	237	8.628	8.634	-0.006	87	13550	1.25	1.12	
122 Pronamide	173	8.680	8.686	-0.006	91	30238	1.25	1.04	
125 Dinoseb	211	8.797	8.797	0.000	95	15364	1.25	1.31	
* 123 Phenanthrene-d10	188	8.803	8.809	-0.006	97	523389	5.00	5.00	
126 Disulfoton	88	8.814	8.814	0.000	95	56595	1.25	1.14	
124 Phenanthrene	178	8.826	8.826	0.000	96	135193	1.25	1.21	
127 Anthracene	178	8.878	8.878	0.000	97	127558	1.25	1.18	
128 Carbazole	167	9.030	9.030	0.000	96	103602	1.25	1.12	
129 Methyl parathion	109	9.164	9.164	0.000	91	16390	1.25	1.31	
130 Di-n-butyl phthalate	149	9.368	9.374	-0.006	100	109198	1.25	1.11	
132 Ethyl Parathion	109	9.537	9.537	0.000	82	11577	1.25	0.9485	
131 4-Nitroquinoline-1-oxide	190	9.560	9.560	0.000	73	6127	1.25	2.50	
S 67 Diallate	86				0		1.25	1.16	
134 Octachlorostyrene	308	9.776	9.776	0.000	91	12367	1.25	1.14	
135 Isodrin	193	9.817	9.817	0.000	91	18219	1.25	1.26	
136 Fluoranthene	202	9.957	9.957	0.000	97	139664	1.25	1.16	
137 Benzidine	184	10.091	10.091	0.000	99	210358	3.75	2.93	
* 138 Pyrene-d10 (IS)	212	10.155	10.155	0.000	97	547831	5.00	5.00	
139 Pyrene	202	10.172	10.178	-0.006	98	159295	1.25	1.20	
$ 142 p-Terphenyl-d14	244	10.335	10.336	-0.001	99	241630	2.50	2.41	
145 p-Dimethylamino azobenzene	225	10.475	10.476	-0.001	90	17241	1.25	1.47	
146 Chlorobenzilate	139	10.528	10.528	0.000	96	28174	1.25	0.9309	
148 3,3'-Dimethylbenzidine	212	10.831	10.831	0.000	99	61936	1.25	0.8855	
150 Butyl benzyl phthalate	149	10.854	10.860	-0.006	94	41434	1.25	0.9558	
151 2-Acetylaminofluorene	181	11.099	11.105	-0.006	92	26205	1.25	0.7306	
153 3,3'-Dichlorobenzidine	252	11.443	11.449	-0.006	72	42381	1.25	0.9471	
154 4,4'-Methylene bis(2-chloroani	231	11.455	11.461	-0.006	96	23664	1.25	0.9844	
152 Benzo[a]anthracene	228	11.466	11.466	0.000	97	134940	1.25	1.13	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
155 Chrysene	228	11.507	11.513	-0.006	95	145879	1.25	1.18	
156 Bis(2-ethylhexyl) phthalate	149	11.542	11.542	0.000	97	47928	1.25	0.9818	M
157 6-Methylchrysene	242	12.090	12.090	0.000	98	84586	1.25	1.04	
158 Di-n-octyl phthalate	149	12.422	12.422	0.000	99	65044	1.25	0.9773	
159 Benzo[b]fluoranthene	252	12.888	12.889	-0.001	95	123464	1.25	1.10	
160 7,12-Dimethylbenz(a)anthracene	256	12.888	12.889	-0.001	77	47468	1.25	1.05	
161 Benzo[k]fluoranthene	252	12.923	12.929	-0.006	97	136175	1.25	1.20	
162 Benzo[a]pyrene	252	13.349	13.355	-0.006	75	93830	1.25	1.06	
* 163 Perylene-d12	264	13.436	13.436	0.000	99	425596	5.00	5.00	
164 3-Methylcholanthrene	268	13.873	13.874	-0.001	90	46225	1.25	0.9621	
165 Dibenz[a,h]acridine	279	14.666	14.672	-0.006	89	67398	1.25	0.9779	
166 Dibenz[a,j]acridine	279	14.730	14.736	-0.006	96	84202	1.25	1.07	
167 Indeno[1,2,3-cd]pyrene	276	14.969	14.975	-0.006	97	83941	1.25	1.07	
168 Dibenz(a,h)anthracene	278	15.016	15.016	0.000	90	101822	1.25	1.11	
169 Benzo[g,h,i]perylene	276	15.354	15.360	-0.006	96	111359	1.25	1.16	
S 170 Aramite, Total	185		44.000				1.25	ND	
S 173 Dinitrotoluene	165				0			2.16	
S 177 Isosafrole	162				0		1.25	1.13	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RV8270_3_00024 Amount Added: 1.00 Units: mL

Report Date: 08-Nov-2022 11:35:14 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0708.D

Injection Date: 07-Nov-2022 21:25:30 Instrument ID: HP19760 Operator ID: kel10217

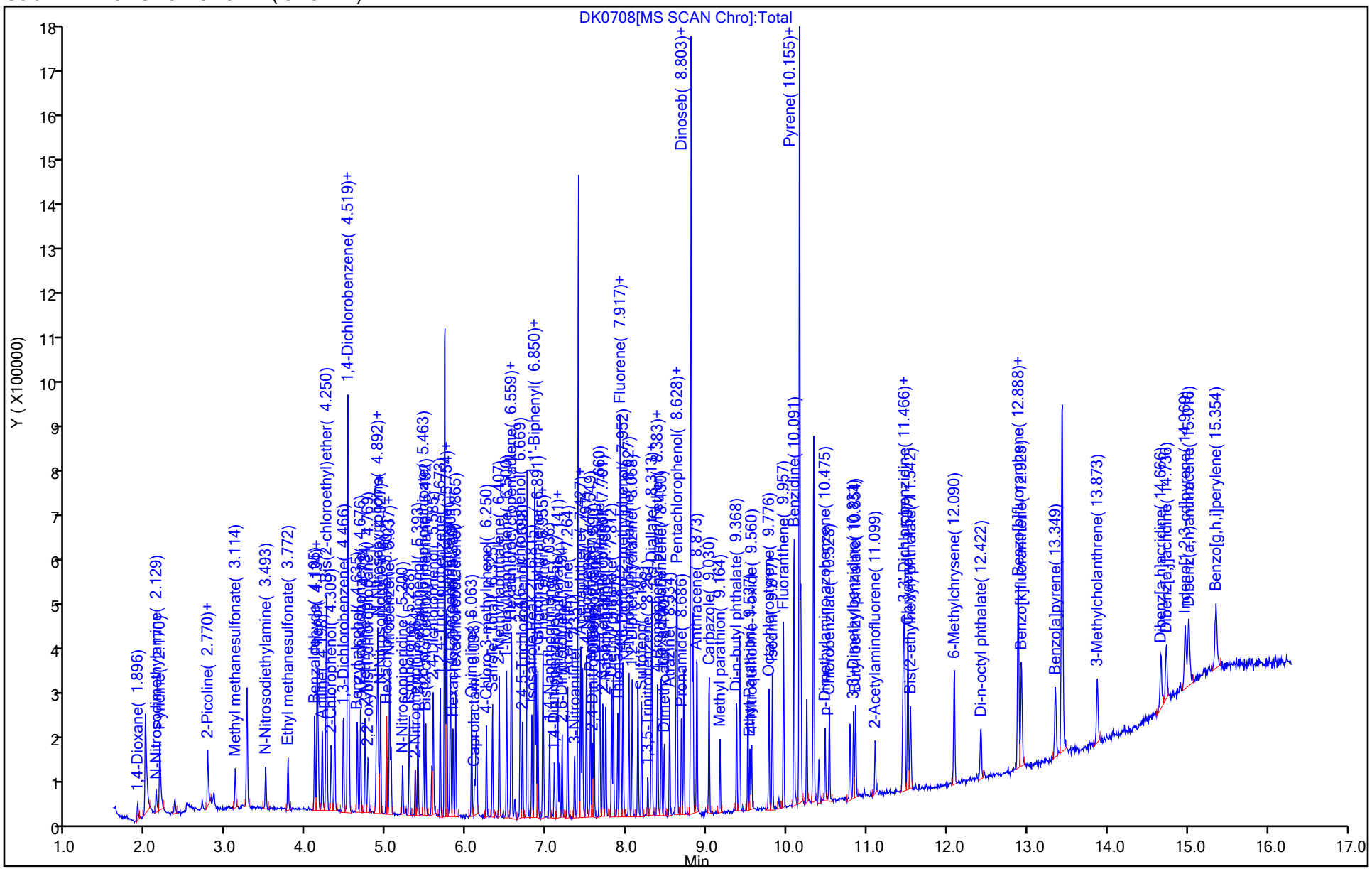
Lims ID: IC L3 Worklist Smp#: 9

Client ID:

Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 9

Method: MSSemi_HP19760 Limit Group: MSSV - 8270D_E LVI

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

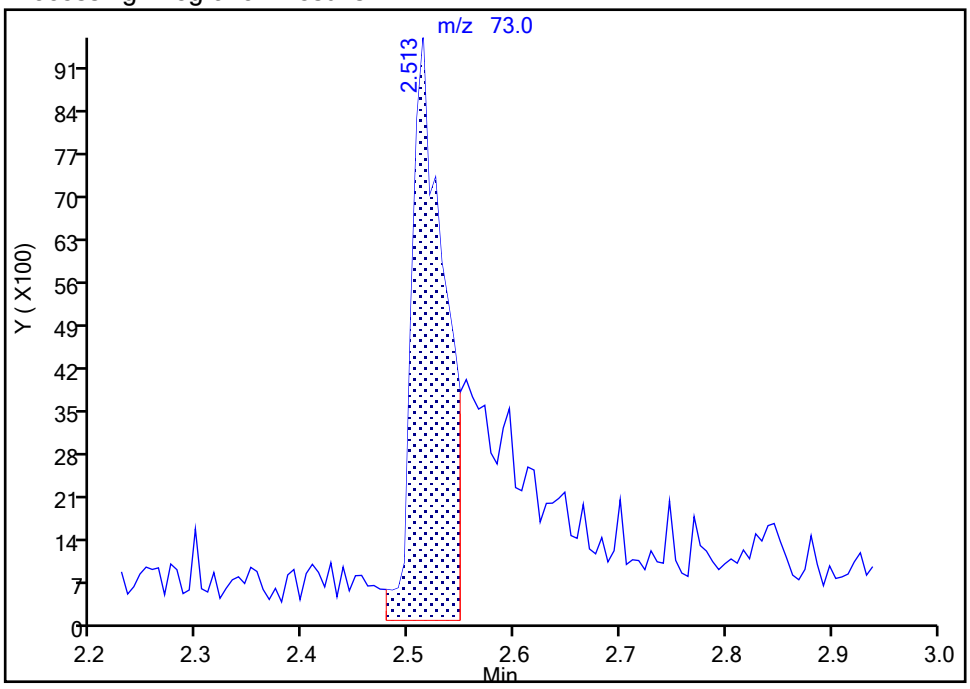
Data File:	\\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0708.D				
Injection Date:	07-Nov-2022 21:25:30	Instrument ID:	HP19760		
Lims ID:	IC L3				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP19760	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

5 Dimethylformamide, CAS: 68-12-2

Signal: 1

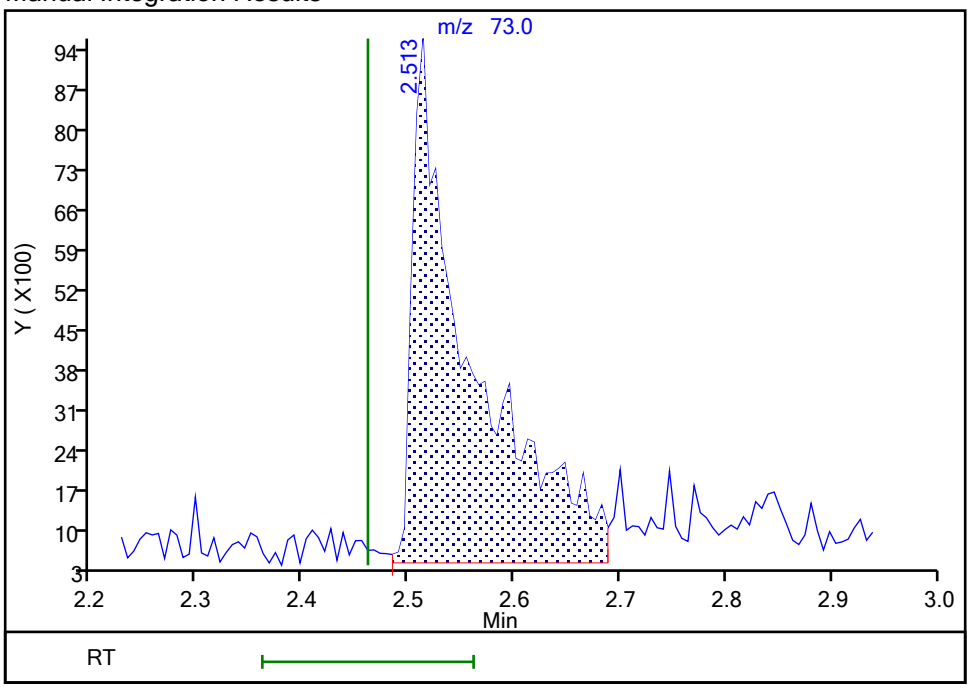
Processing Integration Results

RT: 2.51
Area: 19793
Amount: 0.812551
Amount Units: ug/ml



Manual Integration Results

RT: 2.51
Area: 34919
Amount: 1.323899
Amount Units: ug/ml



Reviewer: SJ89, 07-Nov-2022 21:47:49

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

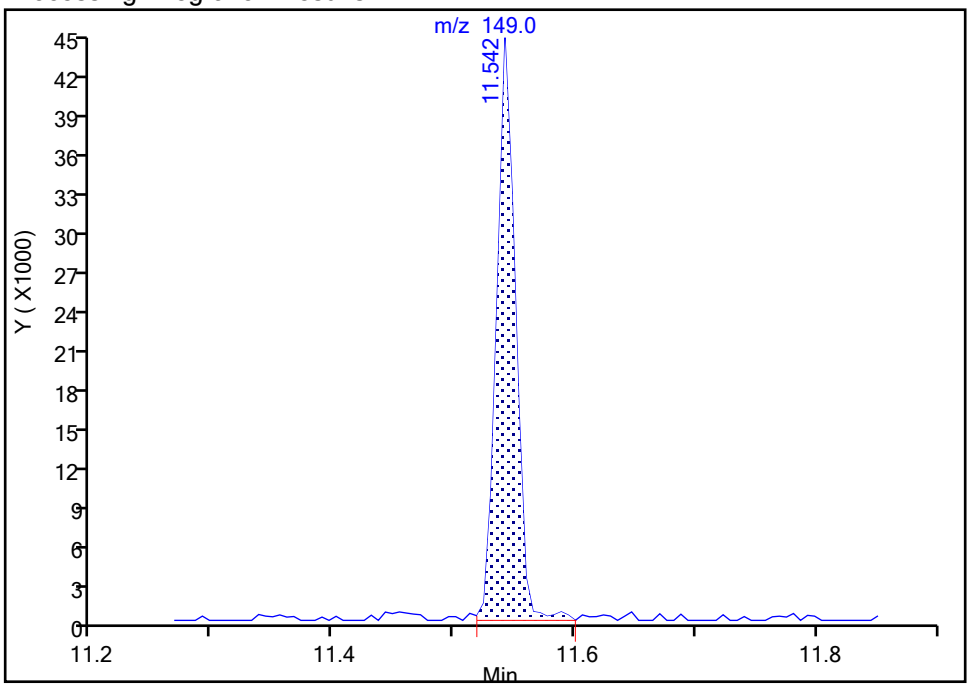
Data File:	\\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0708.D				
Injection Date:	07-Nov-2022 21:25:30	Instrument ID:	HP19760		
Lims ID:	IC L3				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP19760	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

156 Bis(2-ethylhexyl) phthalate, CAS: 117-81-7

Signal: 1

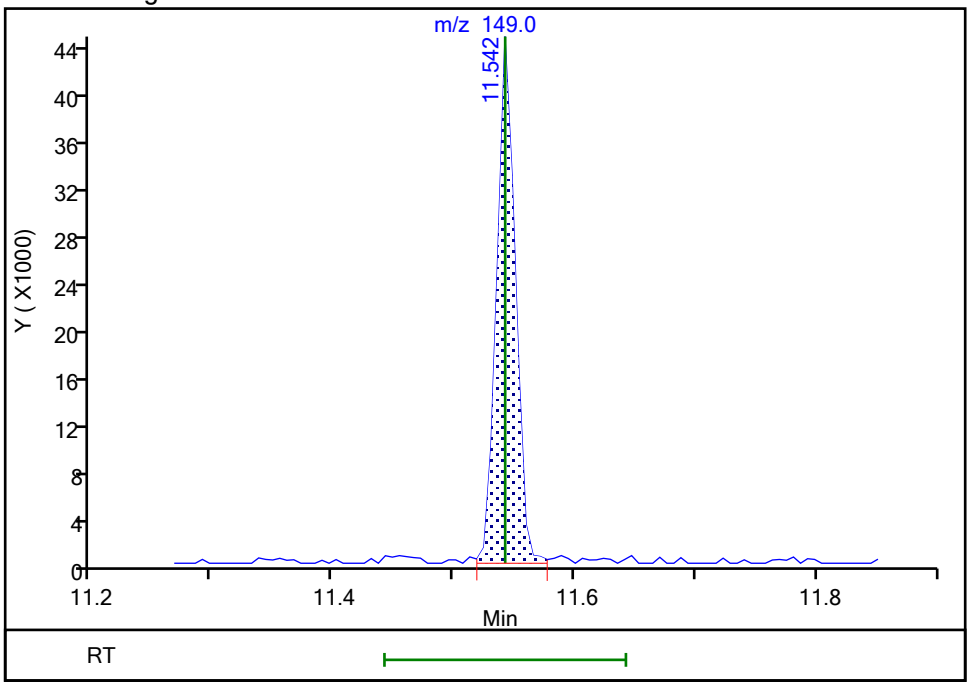
Processing Integration Results

RT: 11.54
Area: 48498
Amount: 0.928479
Amount Units: ug/ml



Manual Integration Results

RT: 11.54
Area: 47928
Amount: 0.981798
Amount Units: ug/ml



Reviewer: SJ89, 07-Nov-2022 22:50:24
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Calibration / 1,4-Dioxane

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

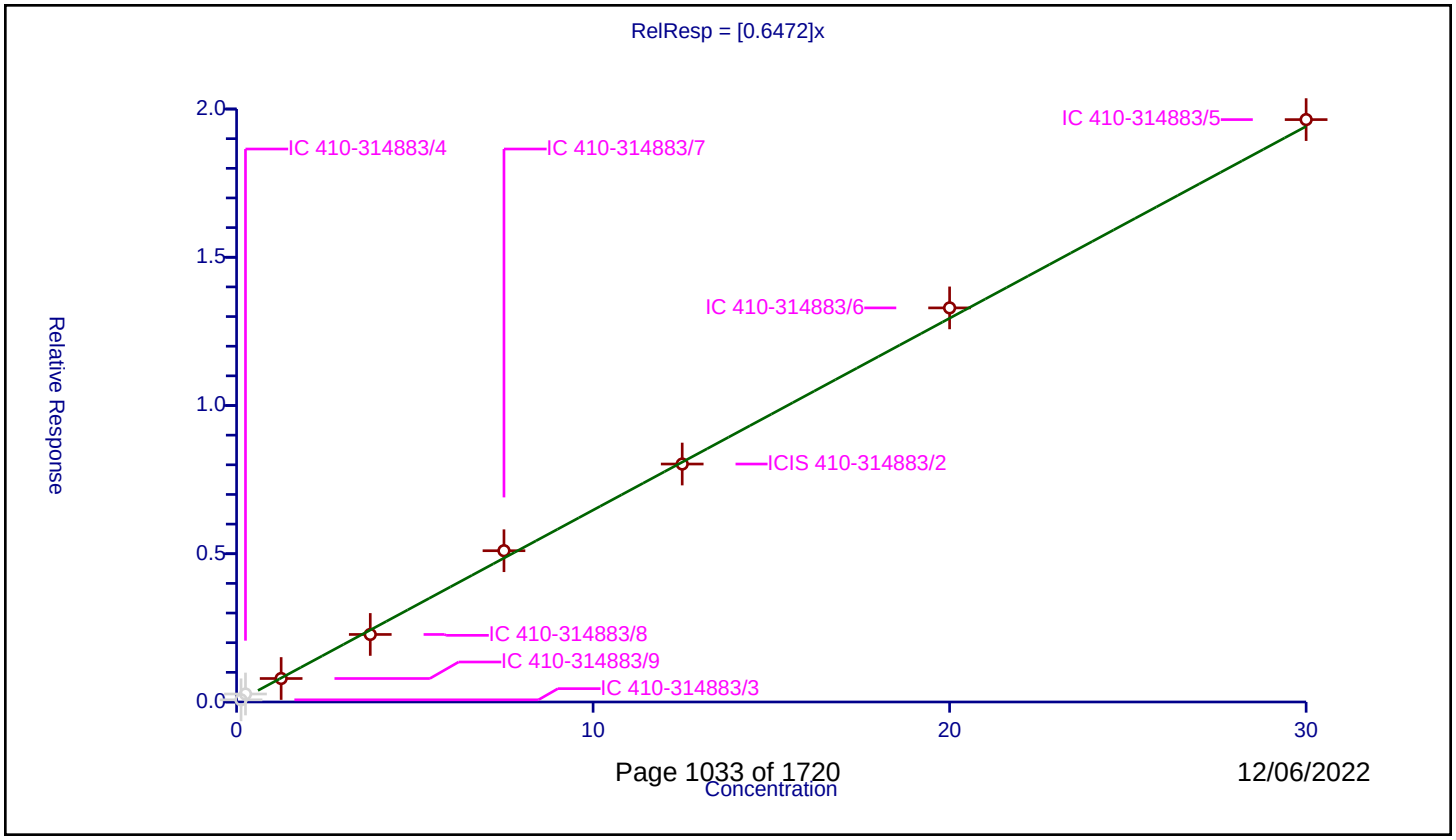
Curve Coefficients

Intercept:	0
Slope:	0.6472

Error Coefficients

Standard Error:	268000
Relative Standard Error:	3.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.072905	5.0	116042.0	0.583237	N
2	IC 410-314883/4	0.25	0.269771	5.0	112818.0	1.079083	N
3	IC 410-314883/9	1.25	0.792311	5.0	121215.0	0.633849	Y
4	IC 410-314883/8	3.75	2.277726	5.0	116298.0	0.607394	Y
5	IC 410-314883/7	7.5	5.102328	5.0	113947.0	0.68031	Y
6	ICIS 410-314883/2	12.5	8.025924	5.0	123592.0	0.642074	Y
7	IC 410-314883/6	20.0	13.291754	5.0	116924.0	0.664588	Y
8	IC 410-314883/5	30.0	19.642564	5.0	115727.0	0.654752	Y



Calibration / N-Nitrosodimethylamine

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

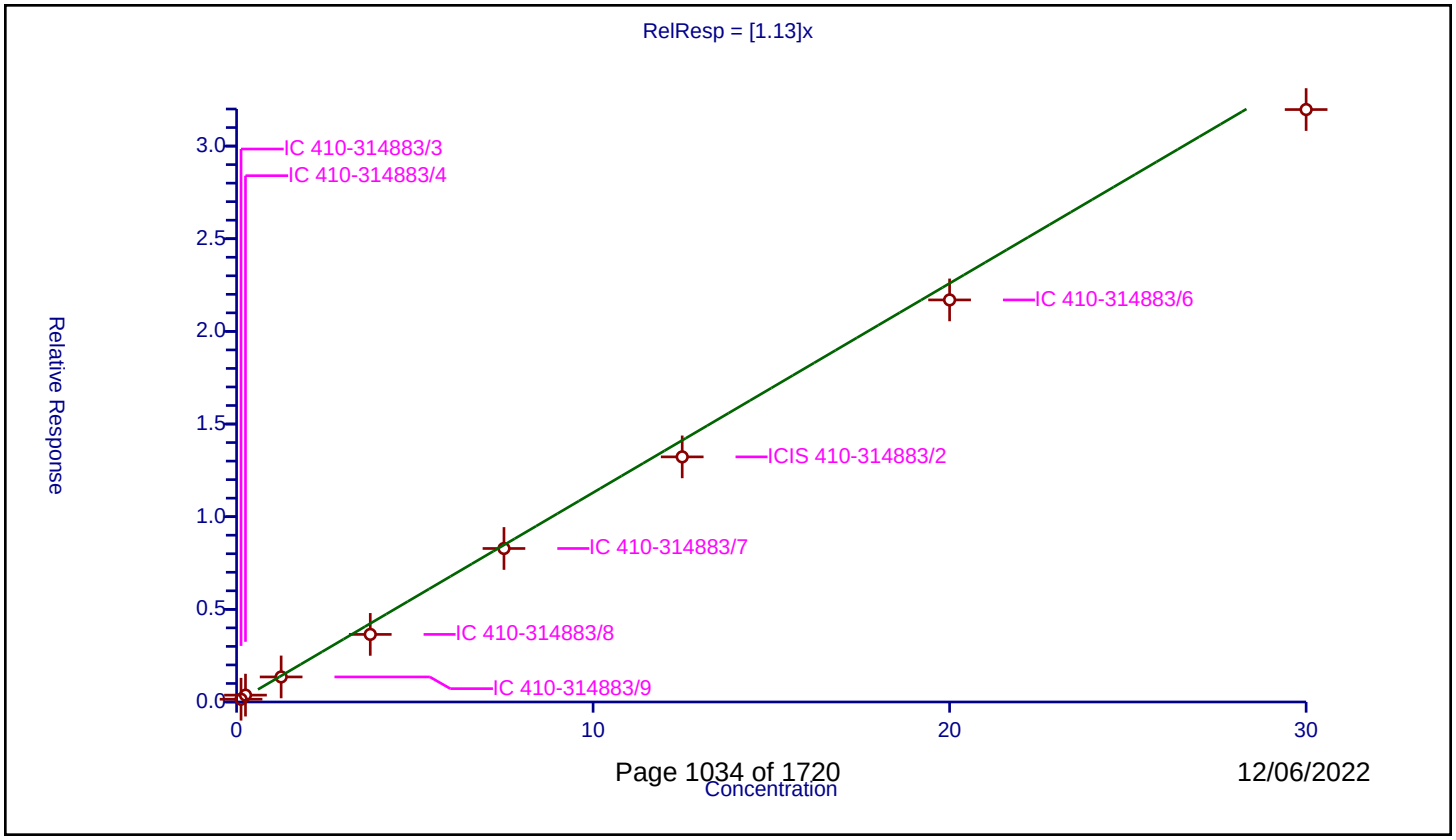
Curve Coefficients

Intercept:	0
Slope:	1.13

Error Coefficients

Standard Error:	370000
Relative Standard Error:	13.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.976

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.148567	5.0	116042.0	1.188535	Y
2	IC 410-314883/4	0.25	0.370375	5.0	112818.0	1.481501	Y
3	IC 410-314883/9	1.25	1.351483	5.0	121215.0	1.081186	Y
4	IC 410-314883/8	3.75	3.647483	5.0	116298.0	0.972662	Y
5	IC 410-314883/7	7.5	8.283764	5.0	113947.0	1.104502	Y
6	ICIS 410-314883/2	12.5	13.22796	5.0	123592.0	1.058237	Y
7	IC 410-314883/6	20.0	21.697598	5.0	116924.0	1.08488	Y
8	IC 410-314883/5	30.0	31.970543	5.0	115727.0	1.065685	Y



Calibration / Pyridine

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

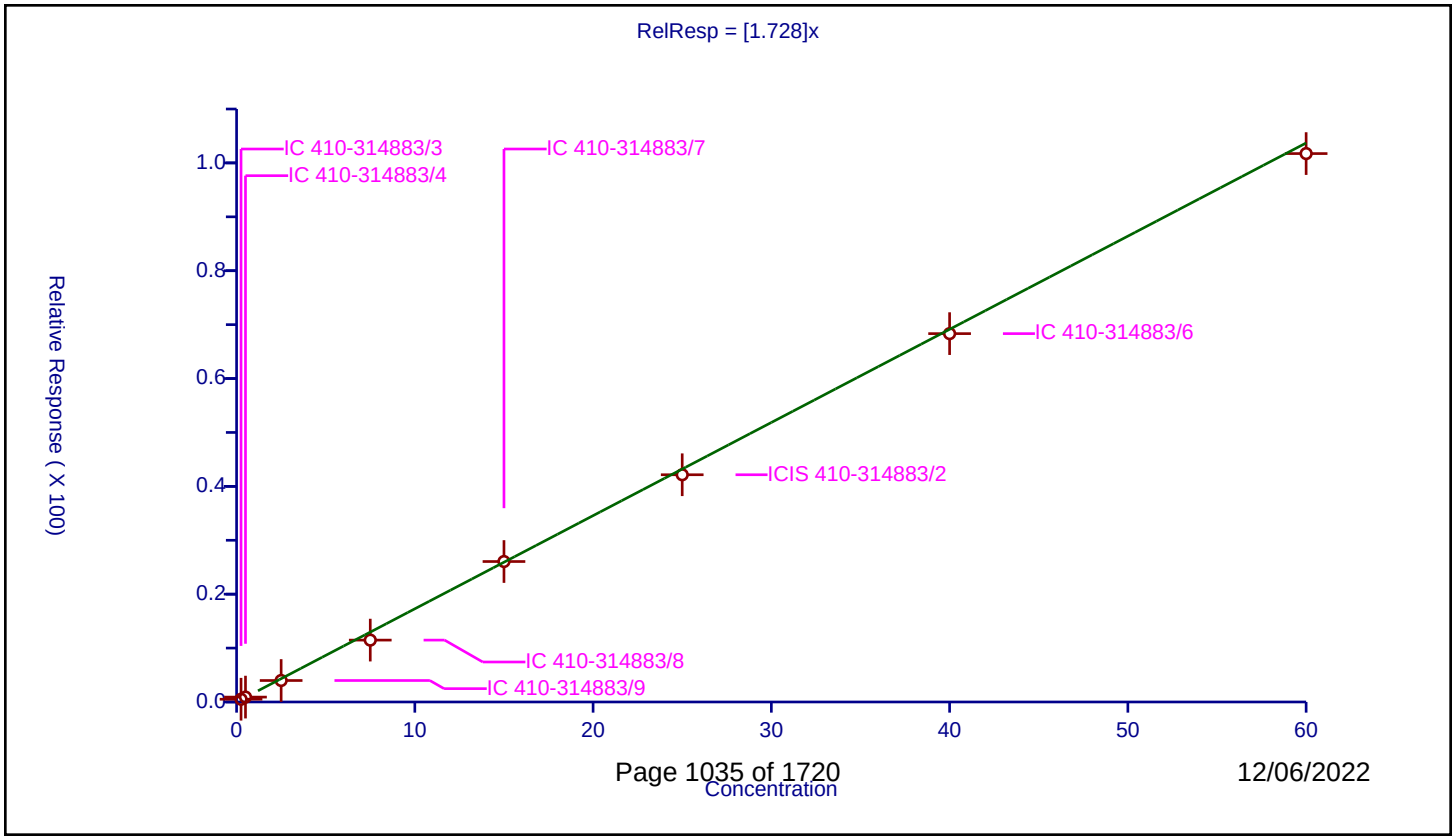
Curve Coefficients

Intercept:	0
Slope:	1.728

Error Coefficients

Standard Error:	1170000
Relative Standard Error:	9.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.25	0.513607	5.0	116042.0	2.054429	Y
2	IC 410-314883/4	0.5	0.909961	5.0	112818.0	1.819922	Y
3	IC 410-314883/9	2.5	3.986305	5.0	121215.0	1.594522	Y
4	IC 410-314883/8	7.5	11.47797	5.0	116298.0	1.530396	Y
5	IC 410-314883/7	15.0	26.057509	5.0	113947.0	1.737167	Y
6	ICIS 410-314883/2	25.0	42.153052	5.0	123592.0	1.686122	Y
7	IC 410-314883/6	40.0	68.333618	5.0	116924.0	1.70834	Y
8	IC 410-314883/5	60.0	101.736198	5.0	115727.0	1.695603	Y



Calibration / Dimethylformamide

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

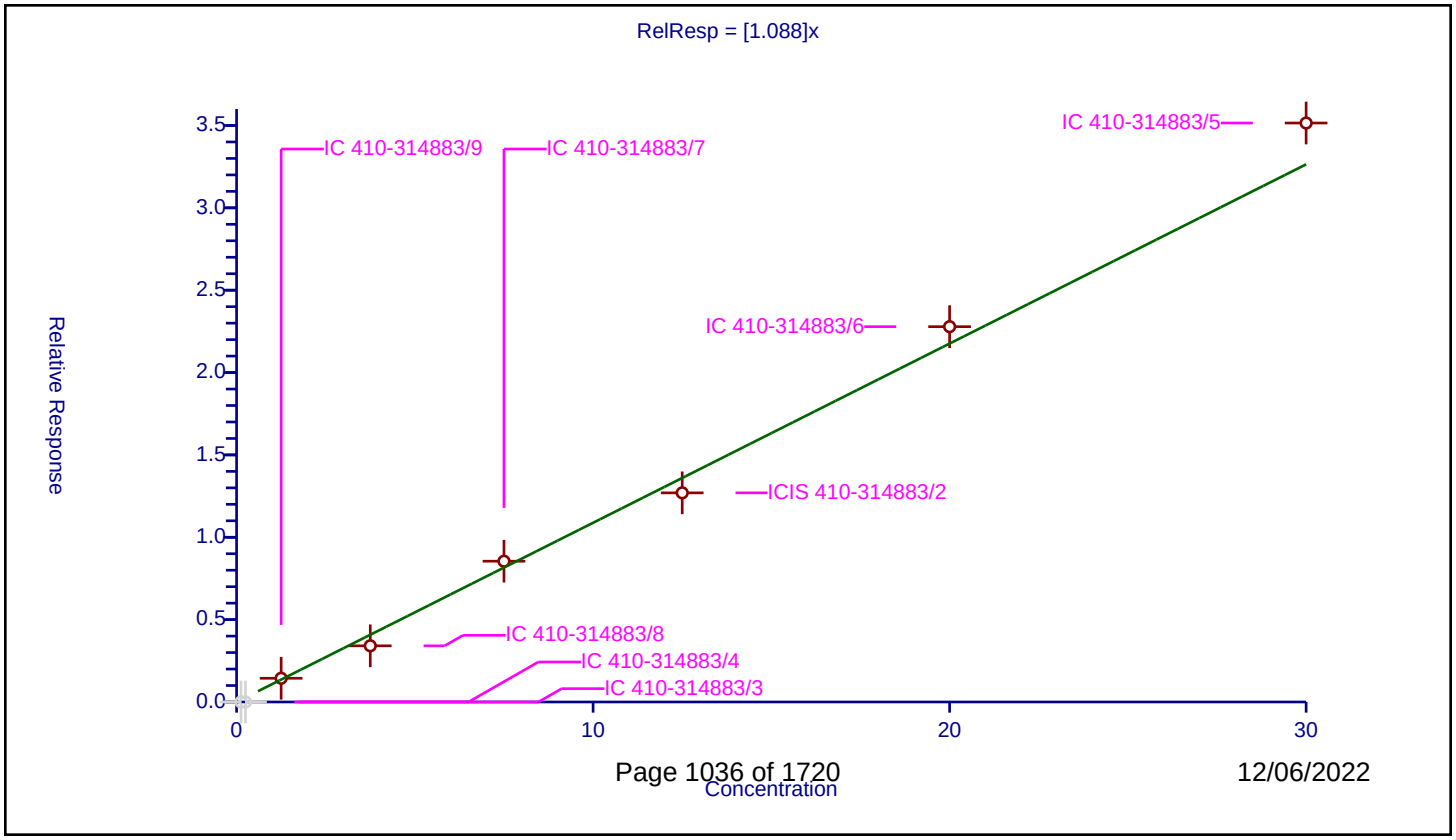
Curve Coefficients

Intercept:	0
Slope:	1.088

Error Coefficients

Standard Error:	467000
Relative Standard Error:	9.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.0	5.0	116042.0	0.0	N
2	IC 410-314883/4	0.25	0.0	5.0	112818.0	0.0	N
3	IC 410-314883/9	1.25	1.440375	5.0	121215.0	1.1523	Y
4	IC 410-314883/8	3.75	3.409861	5.0	116298.0	0.909296	Y
5	IC 410-314883/7	7.5	8.546649	5.0	113947.0	1.139553	Y
6	ICIS 410-314883/2	12.5	12.6971	5.0	123592.0	1.015768	Y
7	IC 410-314883/6	20.0	22.786254	5.0	116924.0	1.139313	Y
8	IC 410-314883/5	30.0	35.149317	5.0	115727.0	1.171644	Y



Calibration / 2-Picoline

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

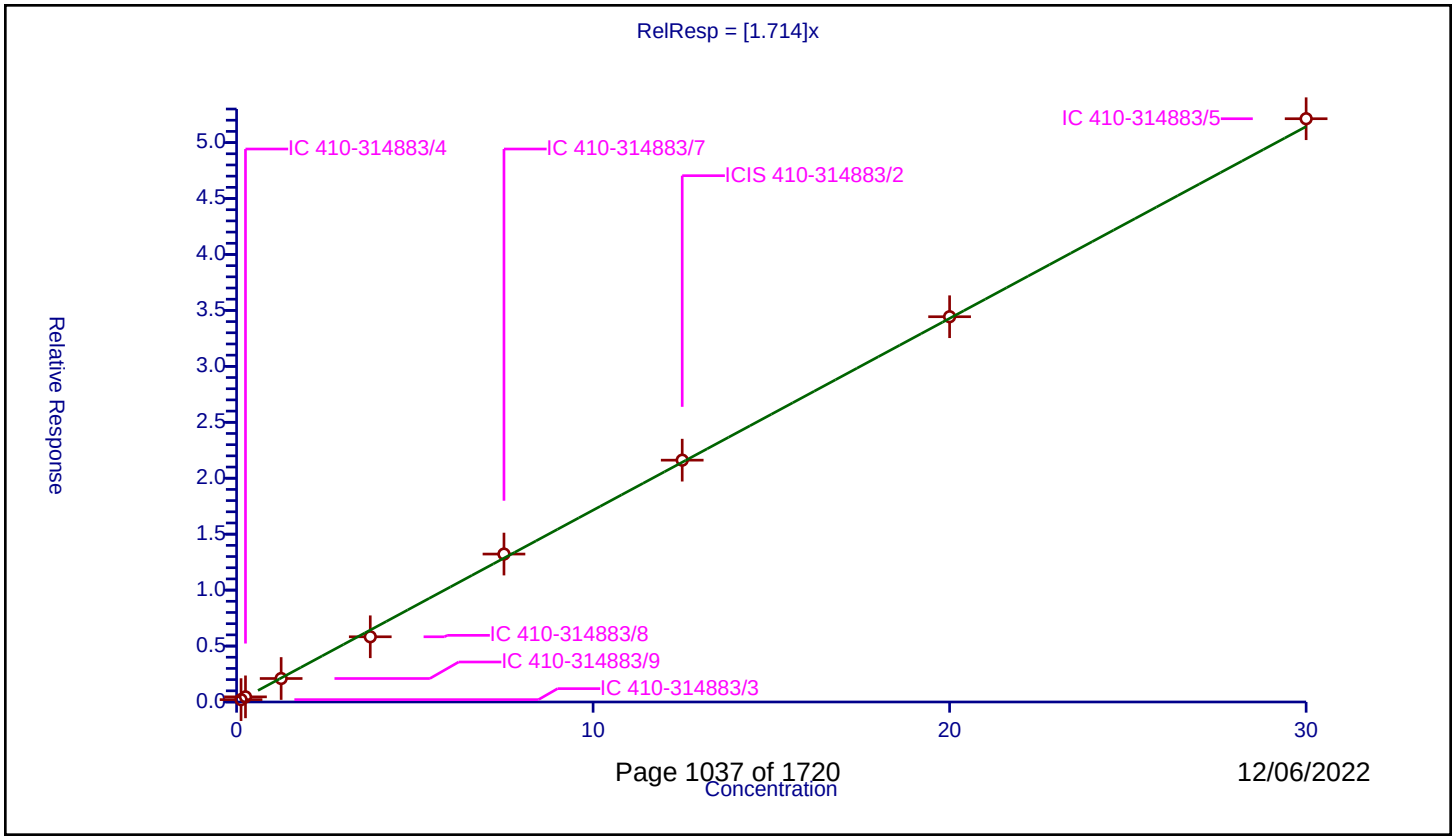
Curve Coefficients

Intercept:	0
Slope:	1.714

Error Coefficients

Standard Error:	598000
Relative Standard Error:	4.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.211949	5.0	116042.0	1.695593	Y
2	IC 410-314883/4	0.25	0.458881	5.0	112818.0	1.835523	Y
3	IC 410-314883/9	1.25	2.097513	5.0	121215.0	1.67801	Y
4	IC 410-314883/8	3.75	5.828217	5.0	116298.0	1.554191	Y
5	IC 410-314883/7	7.5	13.223385	5.0	113947.0	1.763118	Y
6	ICIS 410-314883/2	12.5	21.61402	5.0	123592.0	1.729122	Y
7	IC 410-314883/6	20.0	34.435702	5.0	116924.0	1.721785	Y
8	IC 410-314883/5	30.0	52.132648	5.0	115727.0	1.737755	Y



Calibration / N-Nitrosomethylethylamine

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

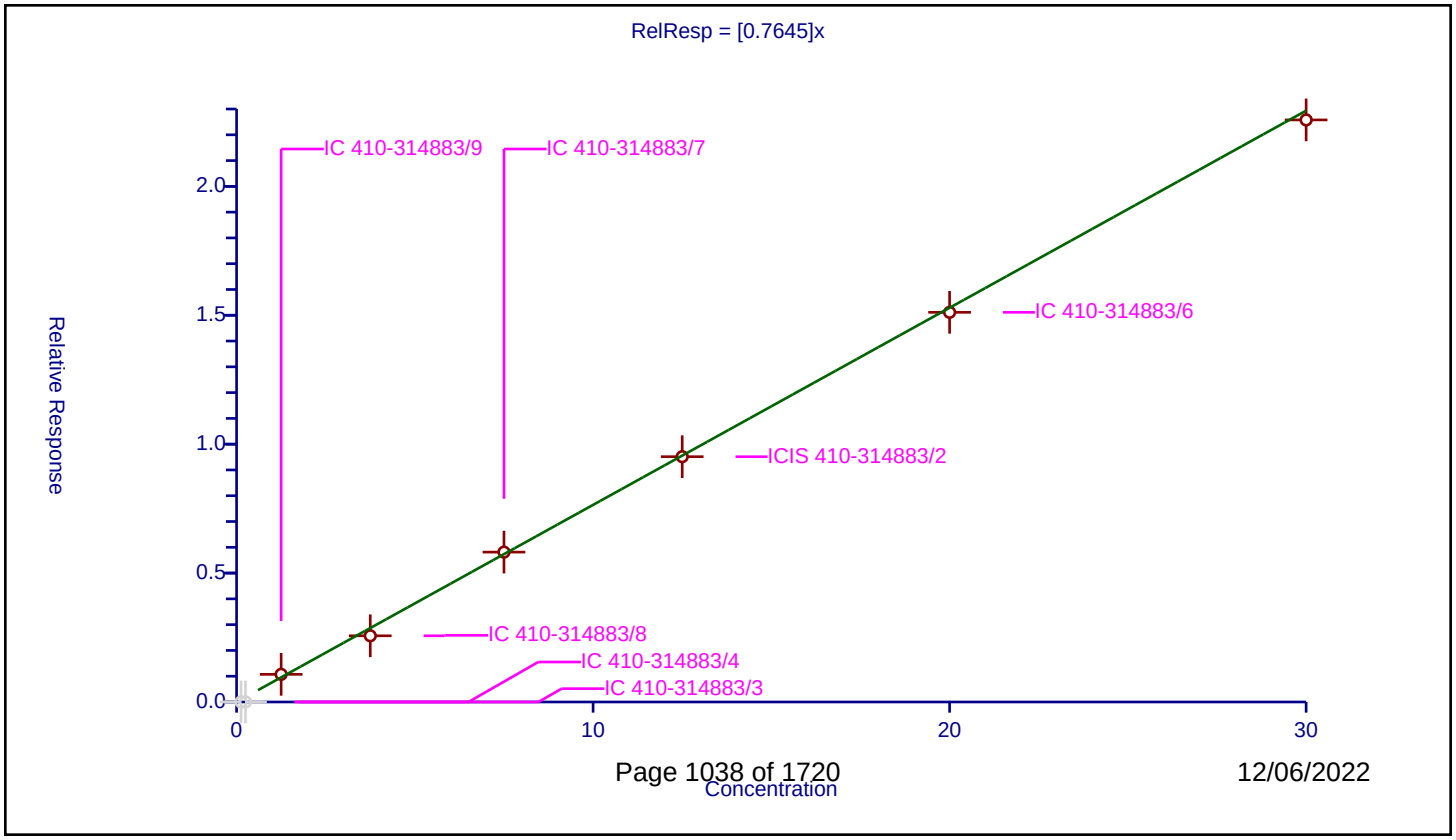
Curve Coefficients

Intercept:	0
Slope:	0.7645

Error Coefficients

Standard Error:	308000
Relative Standard Error:	7.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.0	5.0	116042.0	0.0	N
2	IC 410-314883/4	0.25	0.0	5.0	112818.0	0.0	N
3	IC 410-314883/9	1.25	1.072186	5.0	121215.0	0.857749	Y
4	IC 410-314883/8	3.75	2.56823	5.0	116298.0	0.684861	Y
5	IC 410-314883/7	7.5	5.813141	5.0	113947.0	0.775085	Y
6	ICIS 410-314883/2	12.5	9.513965	5.0	123592.0	0.761117	Y
7	IC 410-314883/6	20.0	15.113963	5.0	116924.0	0.755698	Y
8	IC 410-314883/5	30.0	22.577359	5.0	115727.0	0.752579	Y



Calibration / Methyl methanesulfonate

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

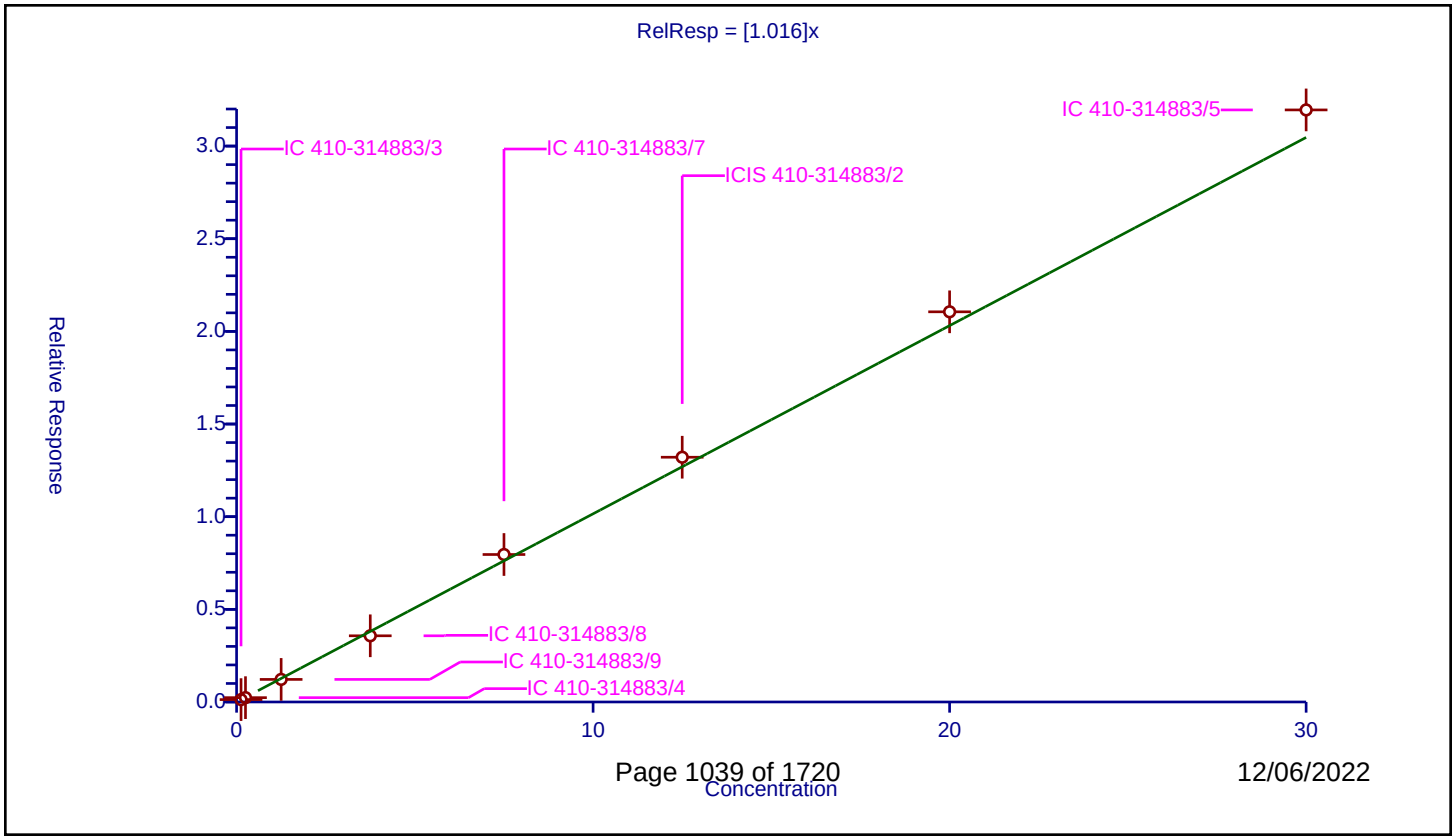
Curve Coefficients

Intercept:	0
Slope:	1.016

Error Coefficients

Standard Error:	366000
Relative Standard Error:	5.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.128143	5.0	116042.0	1.025146	Y
2	IC 410-314883/4	0.25	0.233961	5.0	112818.0	0.935844	Y
3	IC 410-314883/9	1.25	1.218331	5.0	121215.0	0.974665	Y
4	IC 410-314883/8	3.75	3.573019	5.0	116298.0	0.952805	Y
5	IC 410-314883/7	7.5	7.958919	5.0	113947.0	1.061189	Y
6	ICIS 410-314883/2	12.5	13.208379	5.0	123592.0	1.05667	Y
7	IC 410-314883/6	20.0	21.056327	5.0	116924.0	1.052816	Y
8	IC 410-314883/5	30.0	31.950582	5.0	115727.0	1.065019	Y



Calibration / 2-Fluorophenol

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

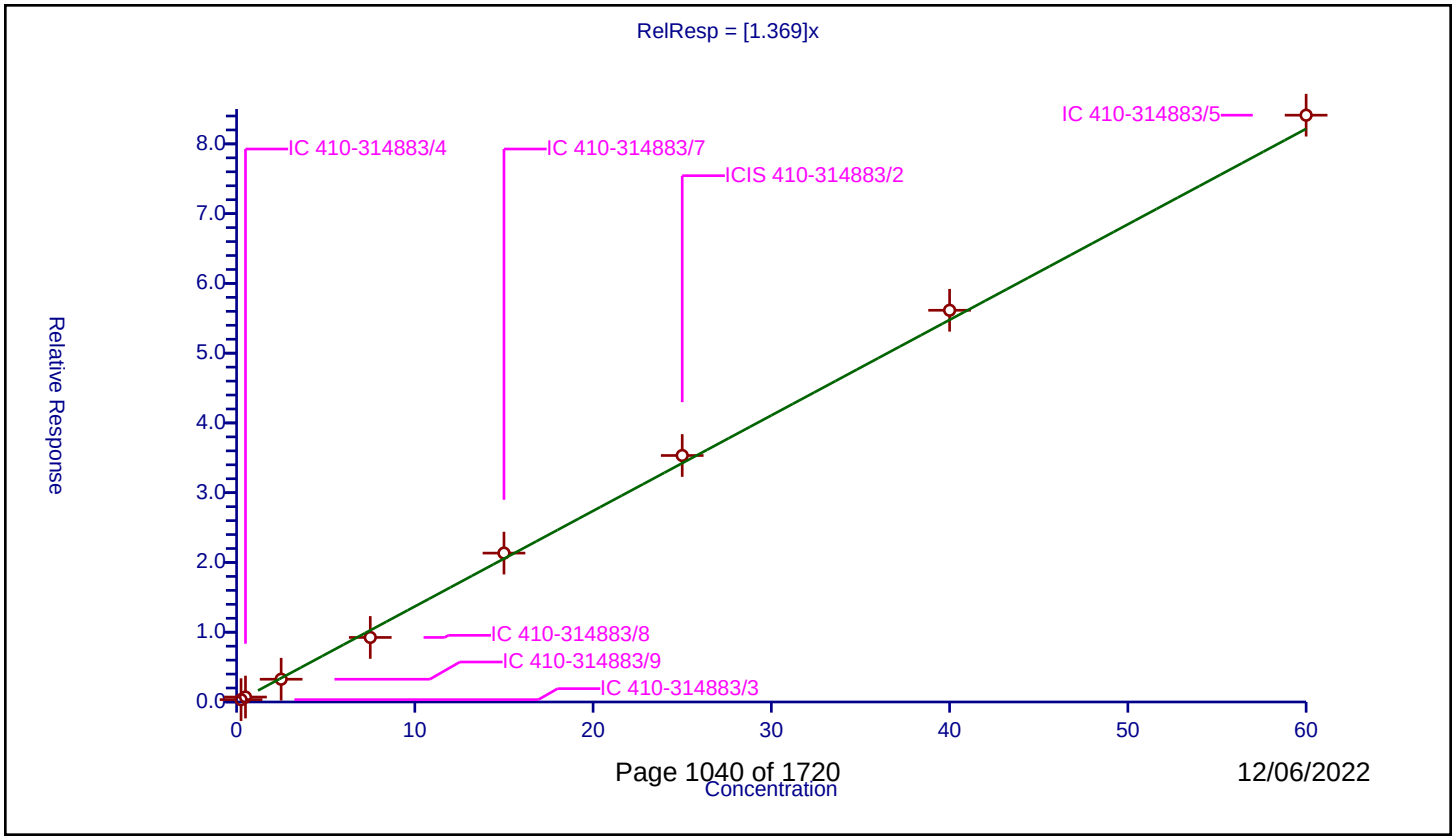
Curve Coefficients

Intercept:	0
Slope:	1.369

Error Coefficients

Standard Error:	969000
Relative Standard Error:	5.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.25	0.338024	5.0	116042.0	1.352097	Y
2	IC 410-314883/4	0.5	0.710747	5.0	112818.0	1.421493	Y
3	IC 410-314883/9	2.5	3.264324	5.0	121215.0	1.305729	Y
4	IC 410-314883/8	7.5	9.253255	5.0	116298.0	1.233767	Y
5	IC 410-314883/7	15.0	21.342291	5.0	113947.0	1.422819	Y
6	ICIS 410-314883/2	25.0	35.335297	5.0	123592.0	1.413412	Y
7	IC 410-314883/6	40.0	56.152757	5.0	116924.0	1.403819	Y
8	IC 410-314883/5	60.0	84.116369	5.0	115727.0	1.401939	Y



Calibration / N-Nitrosodiethylamine

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

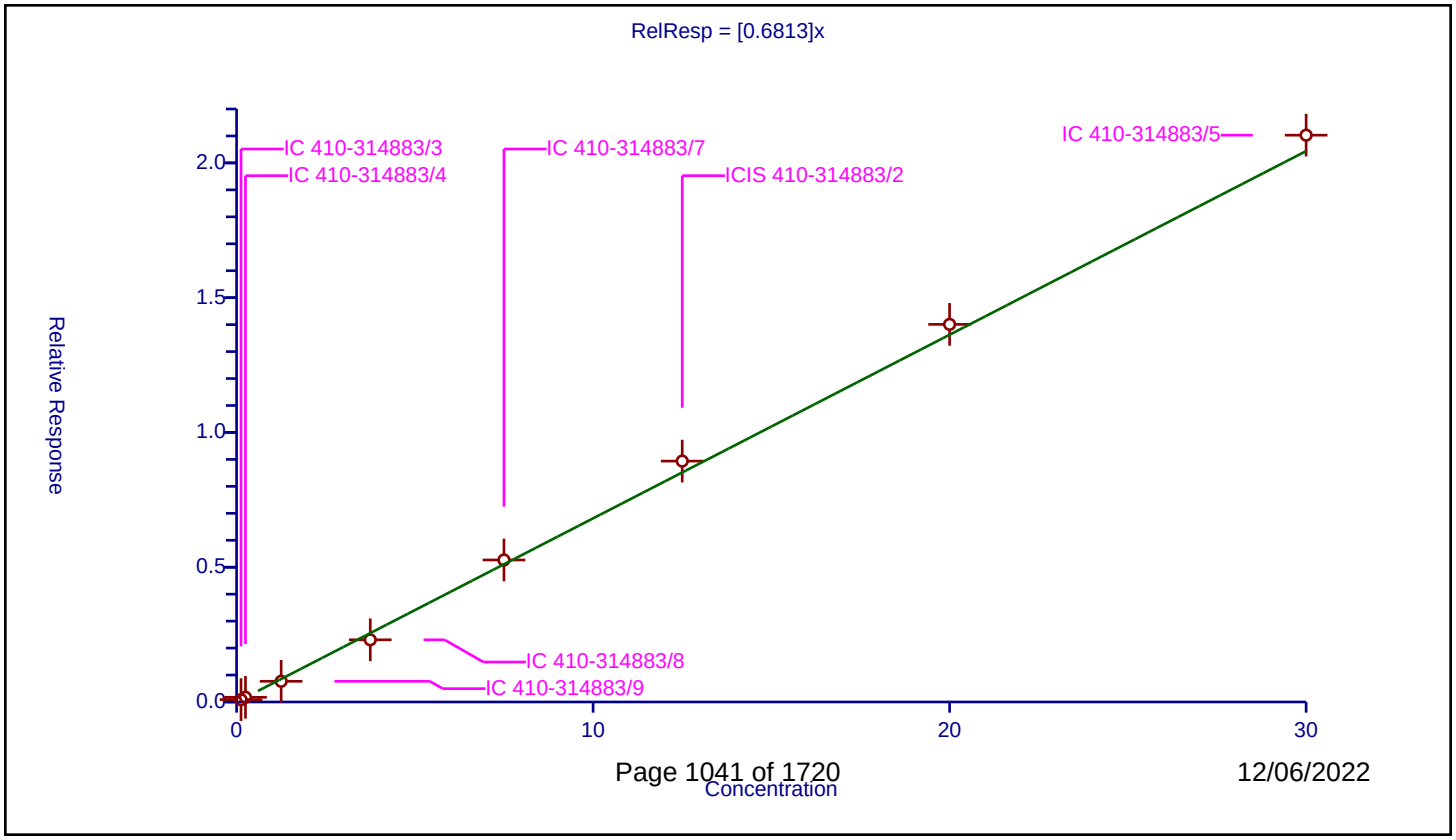
Curve Coefficients

Intercept:	0
Slope:	0.6813

Error Coefficients

Standard Error:	242000
Relative Standard Error:	6.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.088028	5.0	116042.0	0.704228	Y
2	IC 410-314883/4	0.25	0.174396	5.0	112818.0	0.697584	Y
3	IC 410-314883/9	1.25	0.767768	5.0	121215.0	0.614214	Y
4	IC 410-314883/8	3.75	2.307133	5.0	116298.0	0.615236	Y
5	IC 410-314883/7	7.5	5.26859	5.0	113947.0	0.702479	Y
6	ICIS 410-314883/2	12.5	8.937795	5.0	123592.0	0.715024	Y
7	IC 410-314883/6	20.0	14.010126	5.0	116924.0	0.700506	Y
8	IC 410-314883/5	30.0	21.029492	5.0	115727.0	0.700983	Y



Calibration / Ethyl methanesulfonate

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

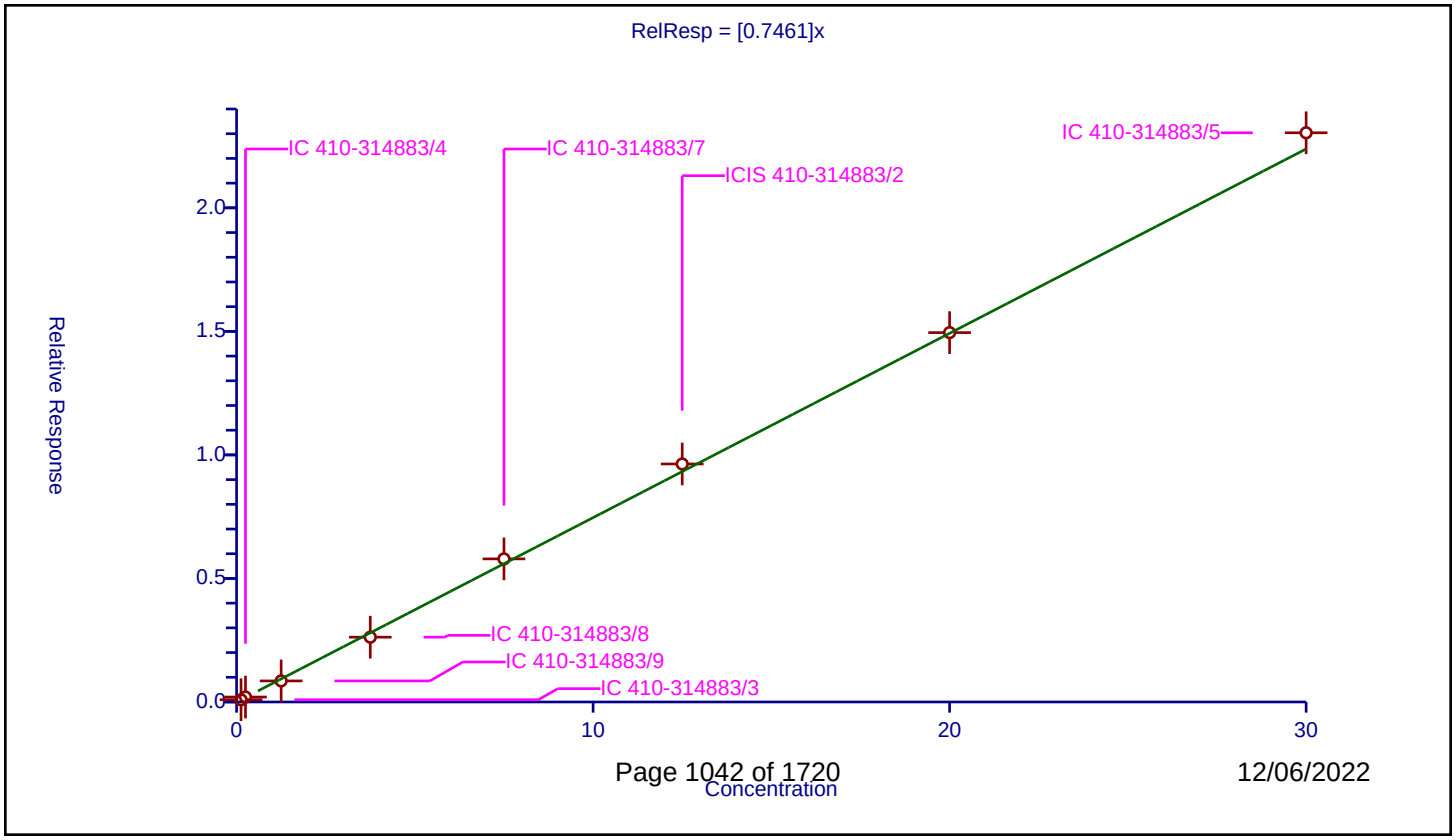
Curve Coefficients

Intercept:	0
Slope:	0.7461

Error Coefficients

Standard Error:	263000
Relative Standard Error:	5.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.091131	5.0	116042.0	0.729046	Y
2	IC 410-314883/4	0.25	0.200057	5.0	112818.0	0.800227	Y
3	IC 410-314883/9	1.25	0.85237	5.0	121215.0	0.681896	Y
4	IC 410-314883/8	3.75	2.623605	5.0	116298.0	0.699628	Y
5	IC 410-314883/7	7.5	5.791552	5.0	113947.0	0.772207	Y
6	ICIS 410-314883/2	12.5	9.632905	5.0	123592.0	0.770632	Y
7	IC 410-314883/6	20.0	14.950139	5.0	116924.0	0.747507	Y
8	IC 410-314883/5	30.0	23.038141	5.0	115727.0	0.767938	Y



Calibration / Benzaldehyde

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

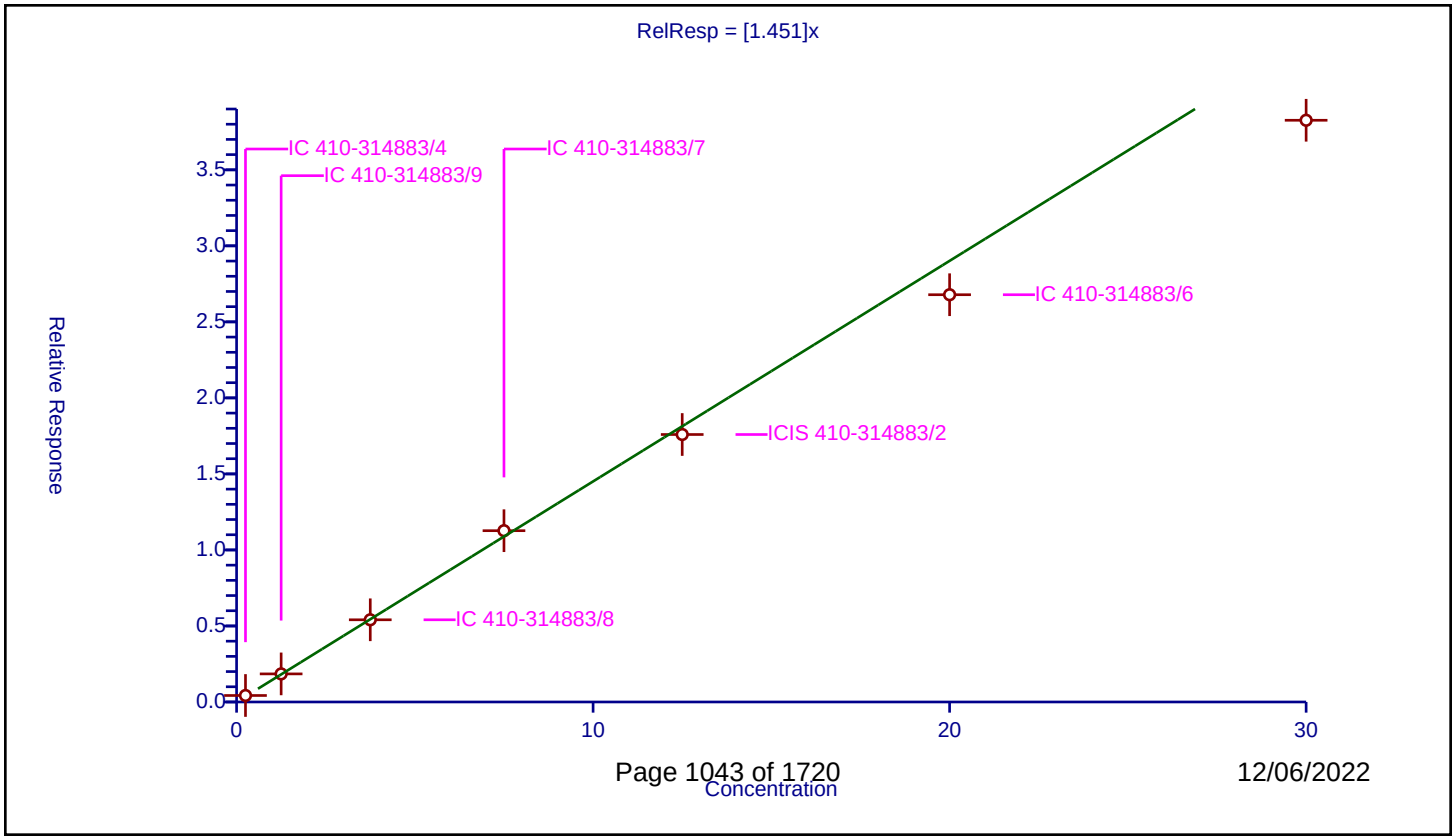
Curve Coefficients

Intercept:	0
Slope:	1.451

Error Coefficients

Standard Error:	491000
Relative Standard Error:	9.6
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/4	0.25	0.427724	5.0	112818.0	1.710897	Y
2	IC 410-314883/9	1.25	1.847379	5.0	121215.0	1.477903	Y
3	IC 410-314883/8	3.75	5.406456	5.0	116298.0	1.441722	Y
4	IC 410-314883/7	7.5	11.265413	5.0	113947.0	1.502055	Y
5	ICIS 410-314883/2	12.5	17.592118	5.0	123592.0	1.407369	Y
6	IC 410-314883/6	20.0	26.786075	5.0	116924.0	1.339304	Y
7	IC 410-314883/5	30.0	38.260216	5.0	115727.0	1.275341	Y



Calibration / Phenol-d5

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

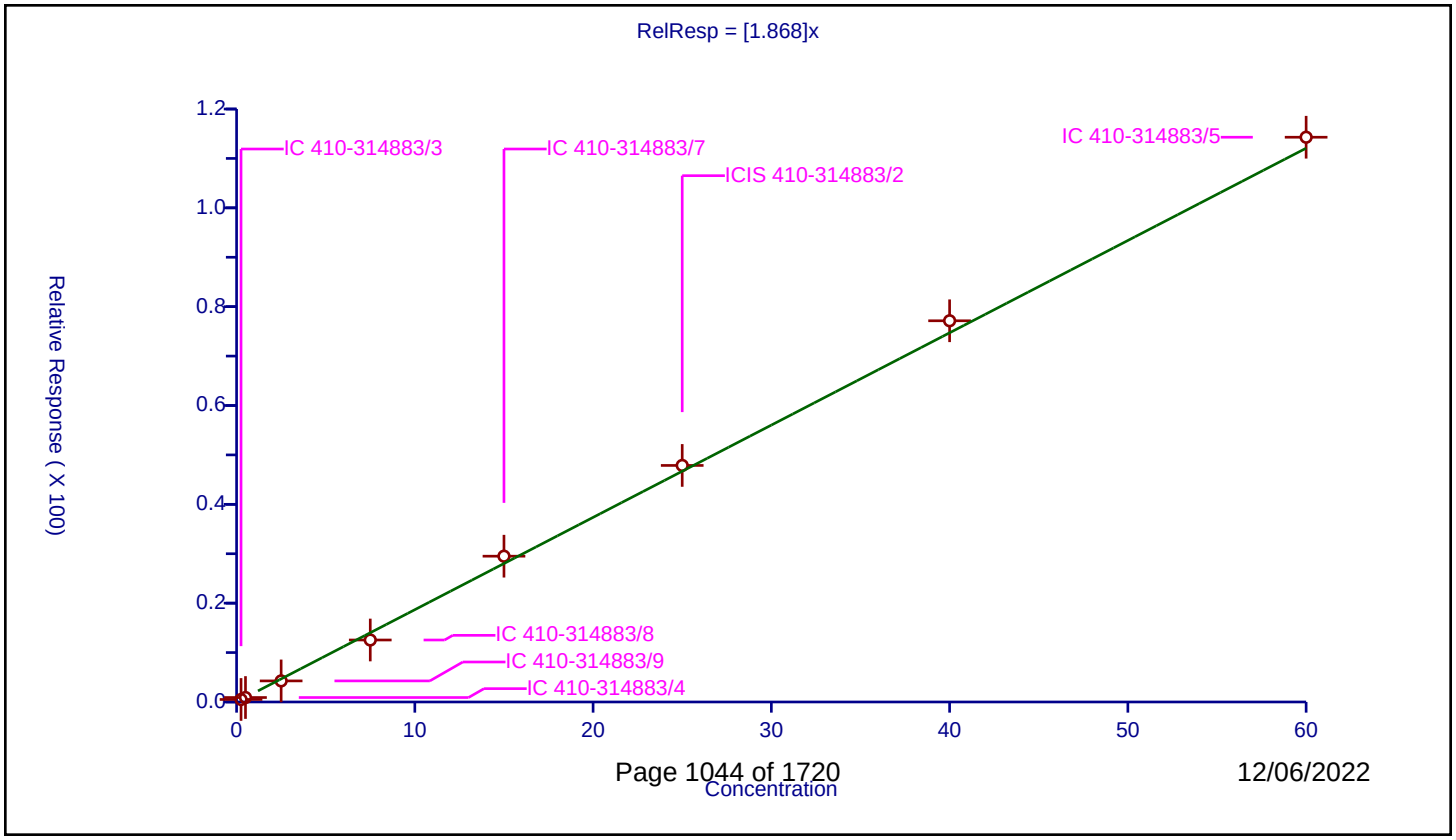
Curve Coefficients

Intercept:	0
Slope:	1.868

Error Coefficients

Standard Error:	1320000
Relative Standard Error:	6.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.25	0.510893	5.0	116042.0	2.04357	Y
2	IC 410-314883/4	0.5	0.902427	5.0	112818.0	1.804854	Y
3	IC 410-314883/9	2.5	4.265149	5.0	121215.0	1.706059	Y
4	IC 410-314883/8	7.5	12.545831	5.0	116298.0	1.672777	Y
5	IC 410-314883/7	15.0	29.502971	5.0	113947.0	1.966865	Y
6	ICIS 410-314883/2	25.0	47.872071	5.0	123592.0	1.914883	Y
7	IC 410-314883/6	40.0	77.147249	5.0	116924.0	1.928681	Y
8	IC 410-314883/5	60.0	114.290442	5.0	115727.0	1.904841	Y



Calibration / Phenol

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

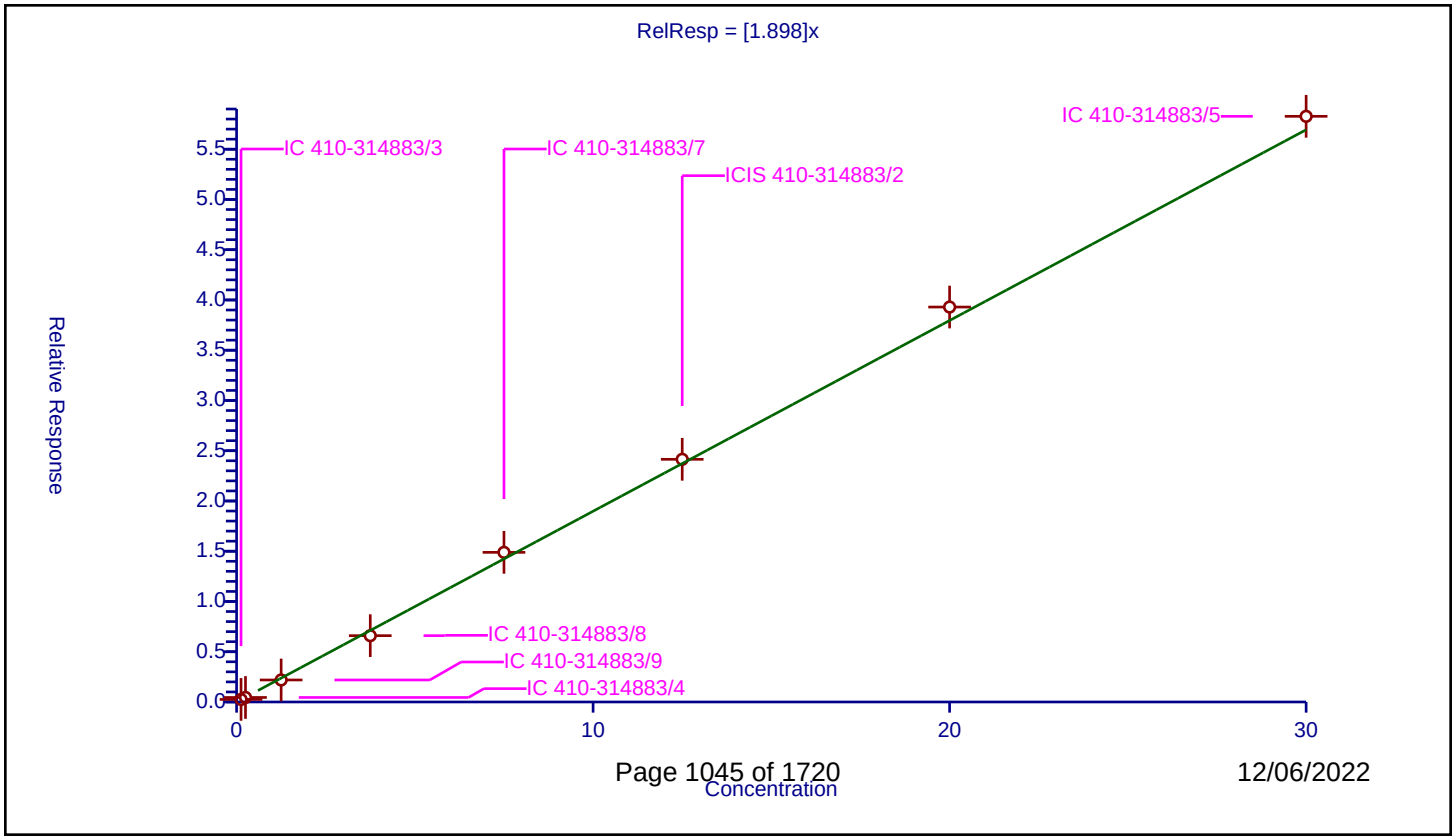
Curve Coefficients

Intercept:	0
Slope:	1.898

Error Coefficients

Standard Error:	672000
Relative Standard Error:	5.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.255597	5.0	116042.0	2.044777	Y
2	IC 410-314883/4	0.25	0.450416	5.0	112818.0	1.801663	Y
3	IC 410-314883/9	1.25	2.191272	5.0	121215.0	1.753017	Y
4	IC 410-314883/8	3.75	6.598738	5.0	116298.0	1.759663	Y
5	IC 410-314883/7	7.5	14.88793	5.0	113947.0	1.985057	Y
6	ICIS 410-314883/2	12.5	24.145535	5.0	123592.0	1.931643	Y
7	IC 410-314883/6	20.0	39.296808	5.0	116924.0	1.96484	Y
8	IC 410-314883/5	30.0	58.272702	5.0	115727.0	1.942423	Y



Calibration / Aniline

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

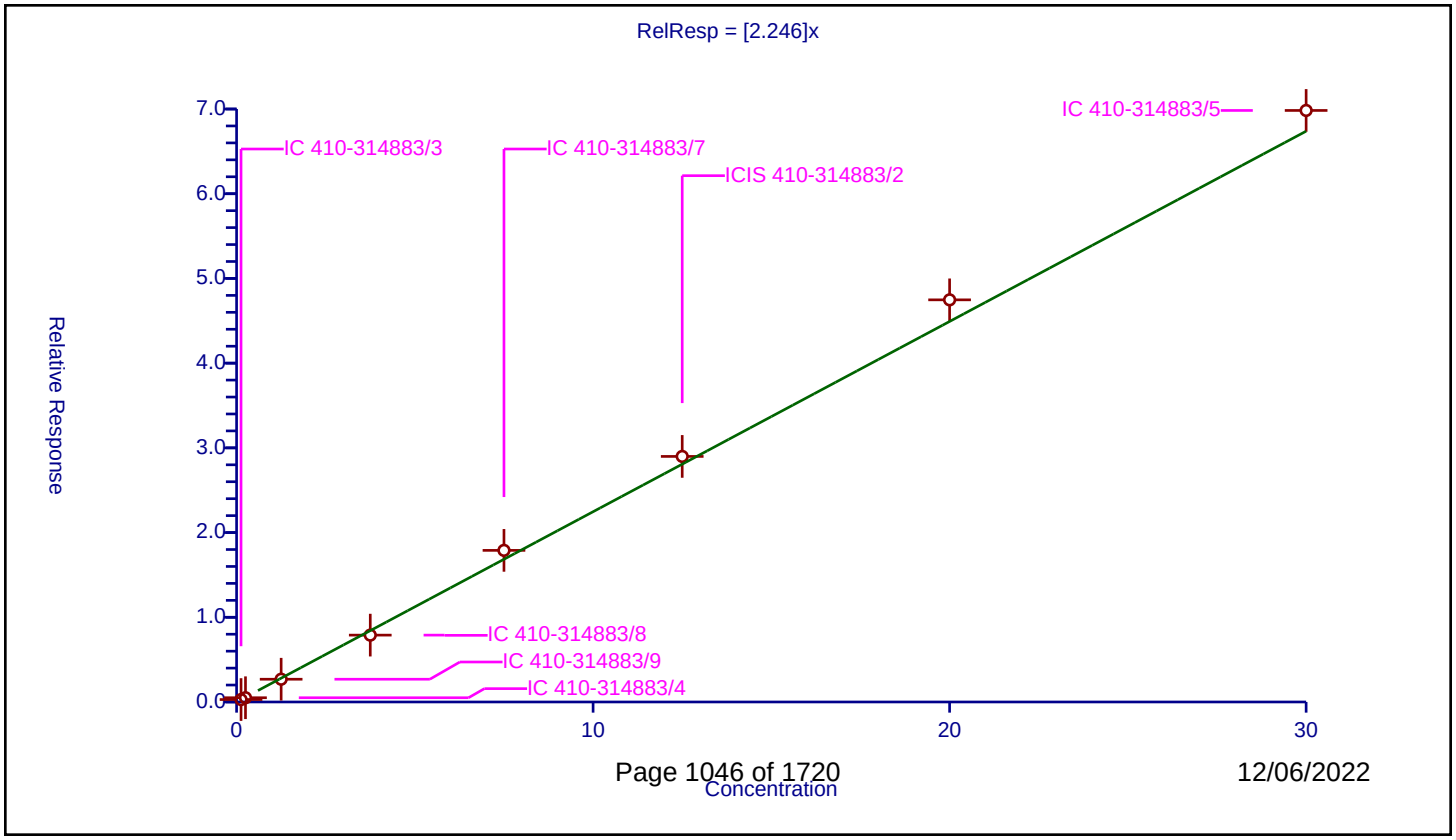
Curve Coefficients

Intercept:	0
Slope:	2.246

Error Coefficients

Standard Error:	807000
Relative Standard Error:	6.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.287439	5.0	116042.0	2.299512	Y
2	IC 410-314883/4	0.25	0.501649	5.0	112818.0	2.006595	Y
3	IC 410-314883/9	1.25	2.688281	5.0	121215.0	2.150625	Y
4	IC 410-314883/8	3.75	7.892784	5.0	116298.0	2.104742	Y
5	IC 410-314883/7	7.5	17.897049	5.0	113947.0	2.386273	Y
6	ICIS 410-314883/2	12.5	28.989255	5.0	123592.0	2.31914	Y
7	IC 410-314883/6	20.0	47.472204	5.0	116924.0	2.37361	Y
8	IC 410-314883/5	30.0	69.831284	5.0	115727.0	2.327709	Y



Calibration / Bis(2-chloroethyl)ether

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

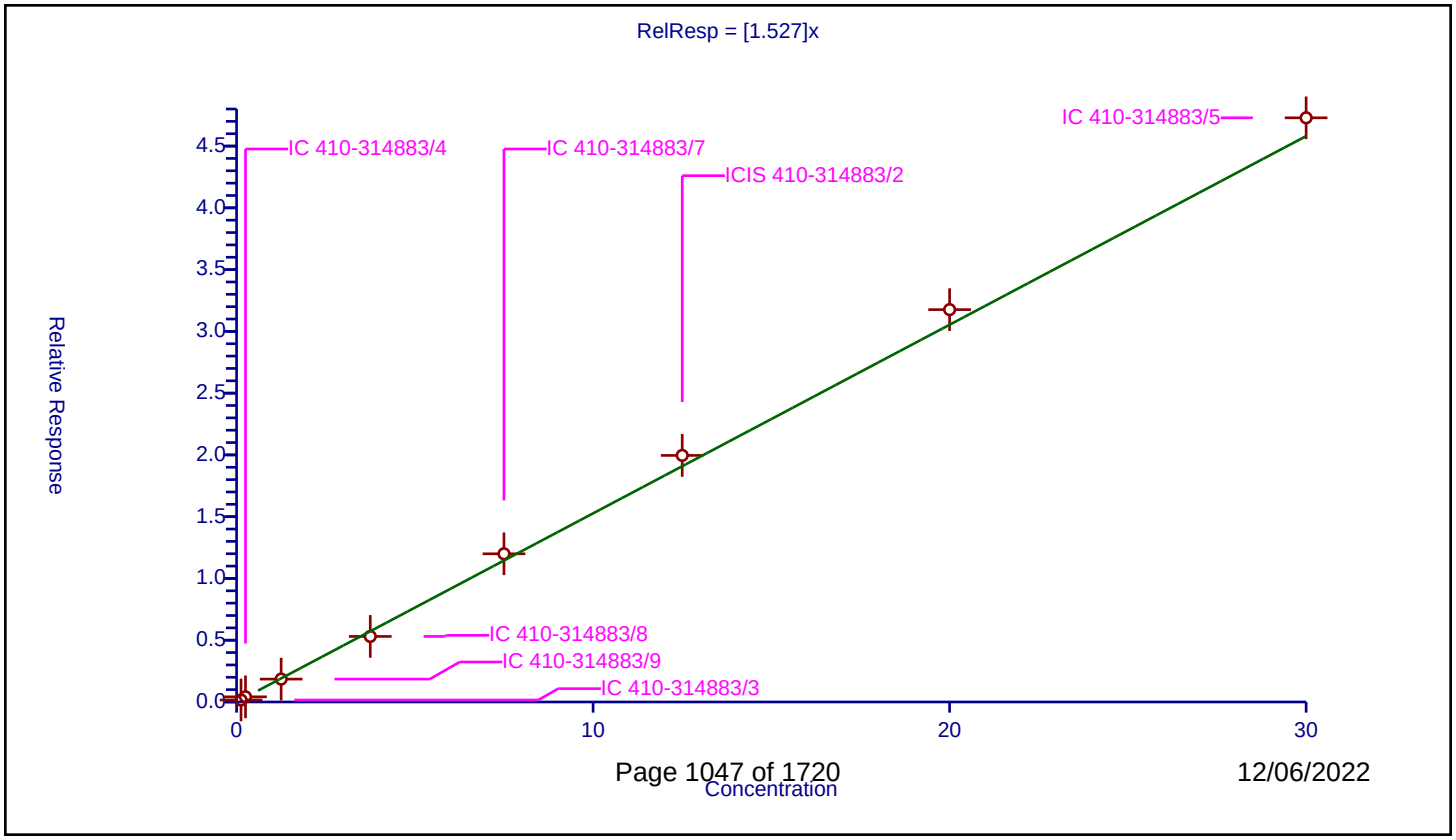
Curve Coefficients

Intercept:	0
Slope:	1.527

Error Coefficients

Standard Error:	546000
Relative Standard Error:	8.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.160976	5.0	116042.0	1.28781	Y
2	IC 410-314883/4	0.25	0.416999	5.0	112818.0	1.667996	Y
3	IC 410-314883/9	1.25	1.853937	5.0	121215.0	1.48315	Y
4	IC 410-314883/8	3.75	5.307529	5.0	116298.0	1.415341	Y
5	IC 410-314883/7	7.5	11.995665	5.0	113947.0	1.599422	Y
6	ICIS 410-314883/2	12.5	19.960192	5.0	123592.0	1.596815	Y
7	IC 410-314883/6	20.0	31.760289	5.0	116924.0	1.588014	Y
8	IC 410-314883/5	30.0	47.288532	5.0	115727.0	1.576284	Y



Calibration / 2-Chlorophenol

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

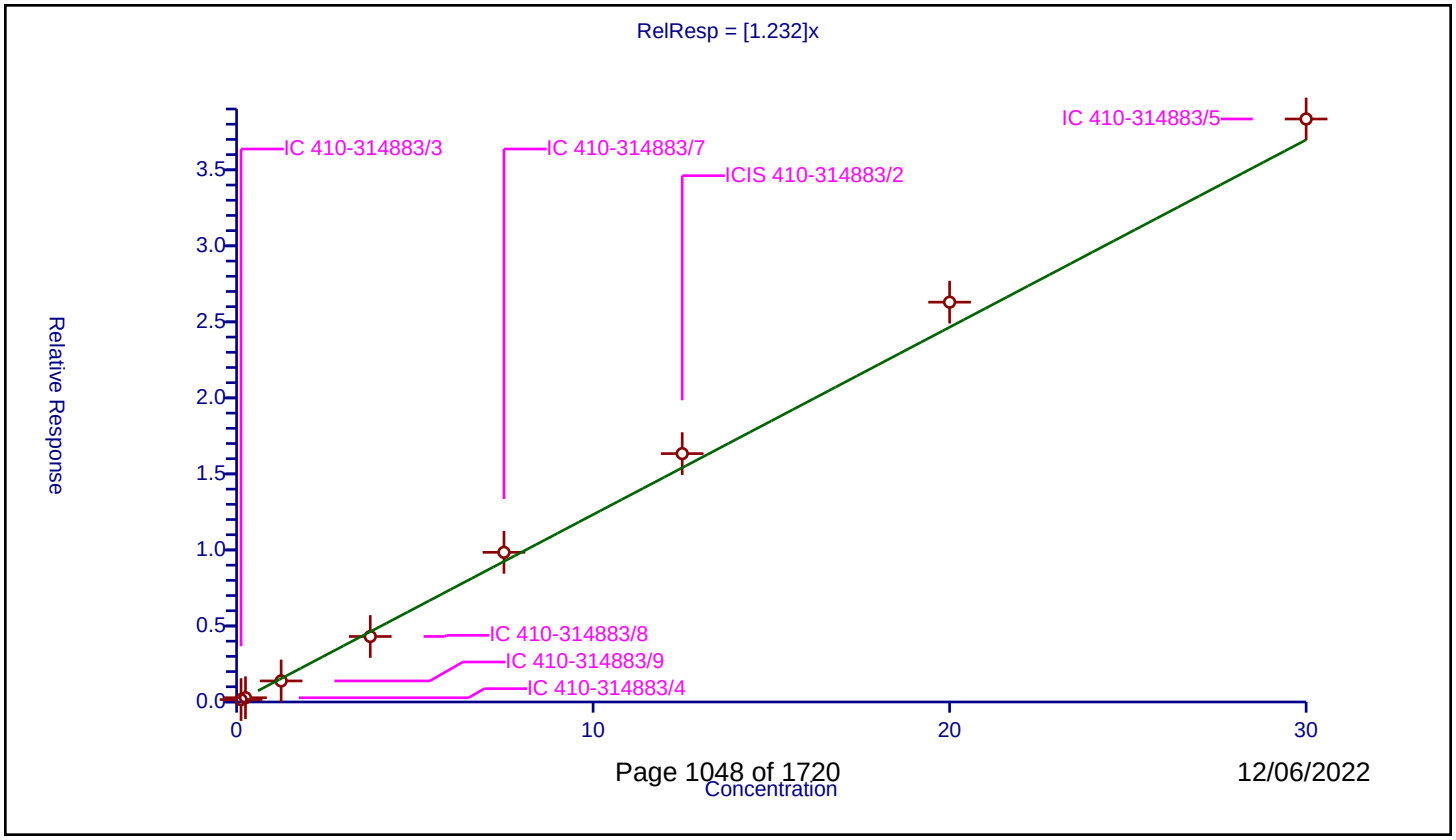
Curve Coefficients

Intercept:	0
Slope:	1.232

Error Coefficients

Standard Error:	446000
Relative Standard Error:	7.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.159167	5.0	116042.0	1.273332	Y
2	IC 410-314883/4	0.25	0.279299	5.0	112818.0	1.117198	Y
3	IC 410-314883/9	1.25	1.385266	5.0	121215.0	1.108213	Y
4	IC 410-314883/8	3.75	4.307641	5.0	116298.0	1.148704	Y
5	IC 410-314883/7	7.5	9.842953	5.0	113947.0	1.312394	Y
6	ICIS 410-314883/2	12.5	16.335645	5.0	123592.0	1.306852	Y
7	IC 410-314883/6	20.0	26.297467	5.0	116924.0	1.314873	Y
8	IC 410-314883/5	30.0	38.344768	5.0	115727.0	1.278159	Y



Calibration / 1,3-Dichlorobenzene

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

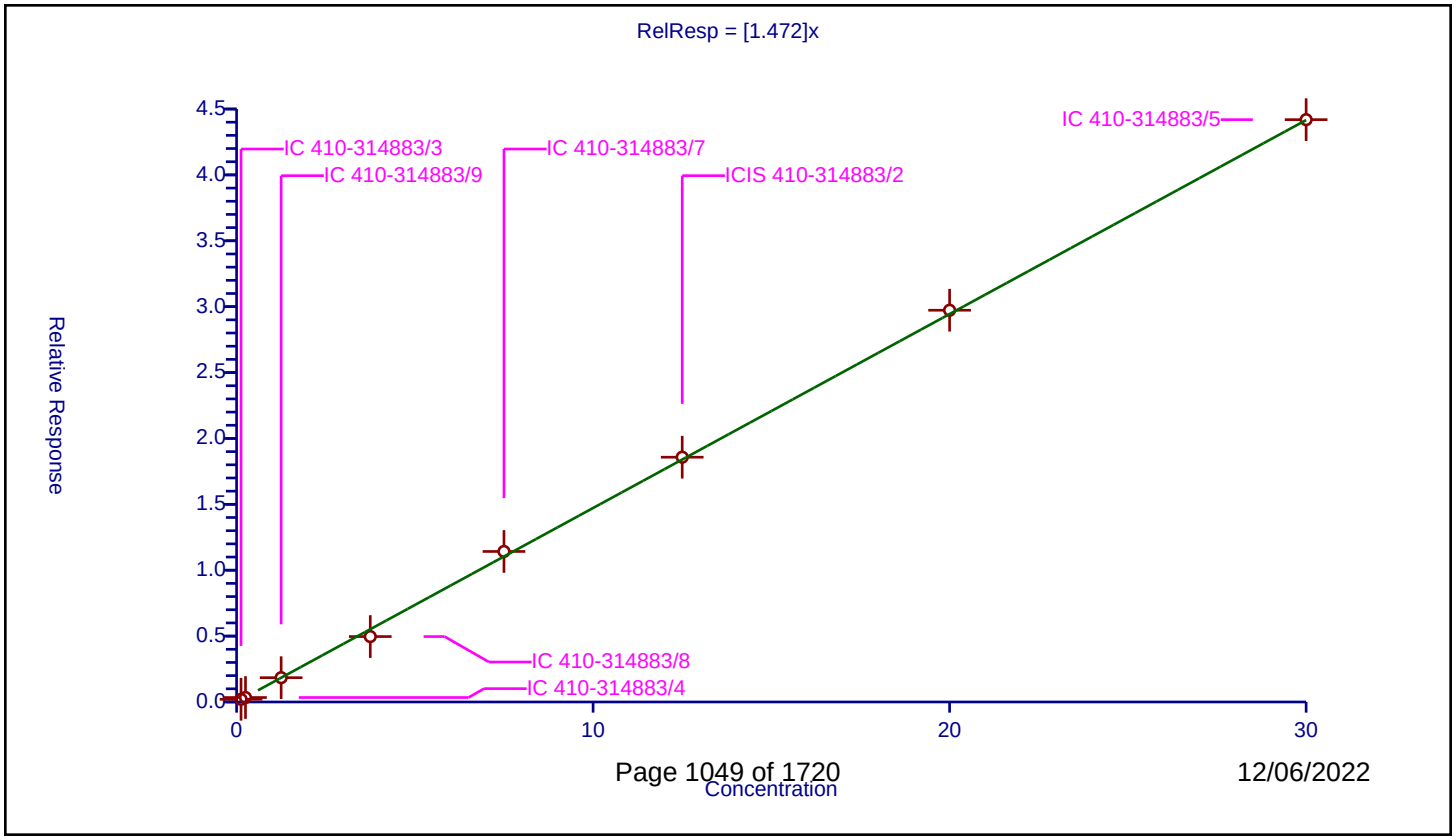
Curve Coefficients

Intercept:	0
Slope:	1.472

Error Coefficients

Standard Error:	510000
Relative Standard Error:	6.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.206175	5.0	116042.0	1.649403	Y
2	IC 410-314883/4	0.25	0.339706	5.0	112818.0	1.358826	Y
3	IC 410-314883/9	1.25	1.844161	5.0	121215.0	1.475329	Y
4	IC 410-314883/8	3.75	4.965047	5.0	116298.0	1.324012	Y
5	IC 410-314883/7	7.5	11.422021	5.0	113947.0	1.522936	Y
6	ICIS 410-314883/2	12.5	18.577254	5.0	123592.0	1.48618	Y
7	IC 410-314883/6	20.0	29.729996	5.0	116924.0	1.4865	Y
8	IC 410-314883/5	30.0	44.192107	5.0	115727.0	1.47307	Y



Calibration / 1,4-Dichlorobenzene

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

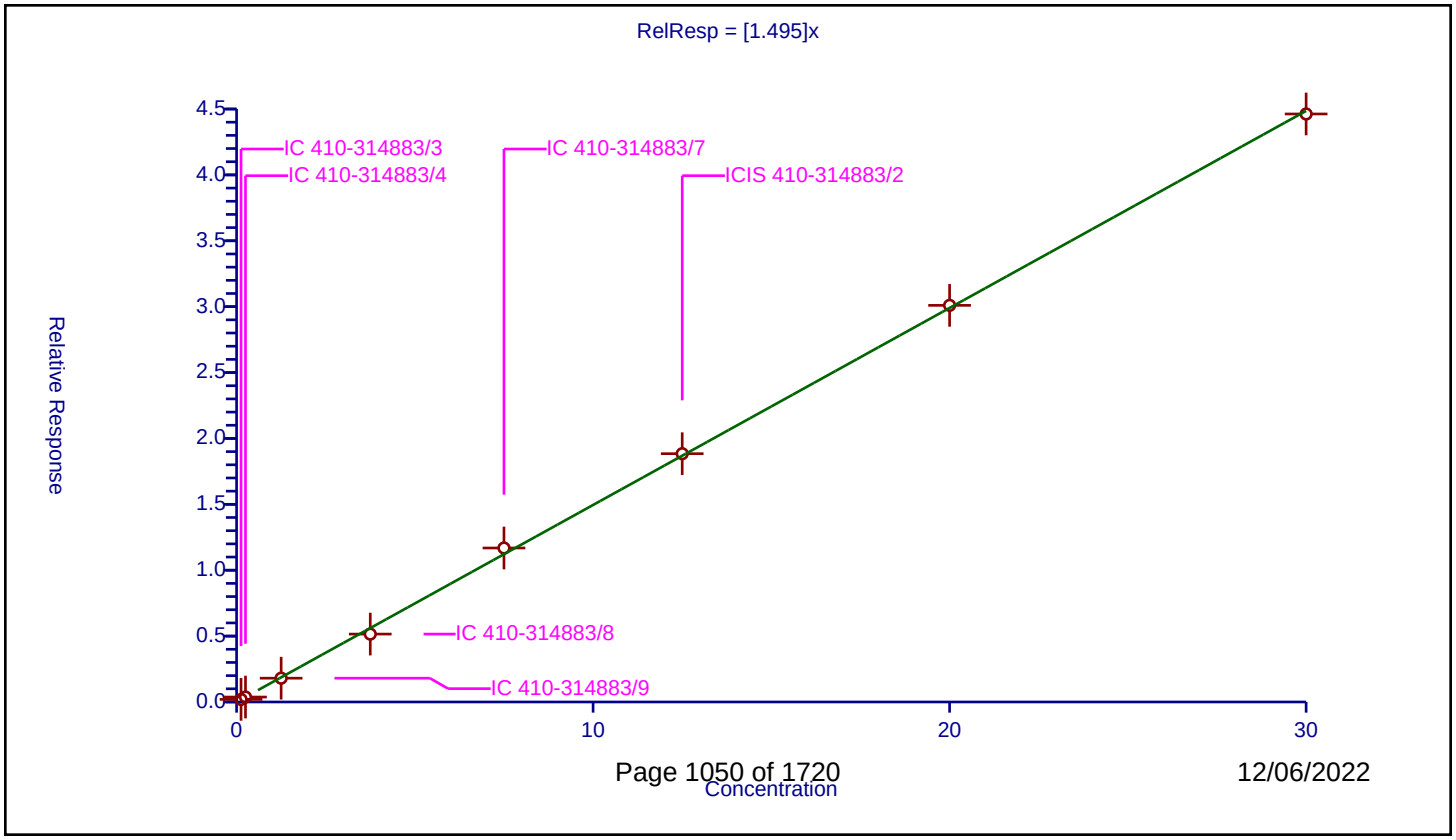
Curve Coefficients

Intercept:	0
Slope:	1.495

Error Coefficients

Standard Error:	516000
Relative Standard Error:	4.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.197859	5.0	116042.0	1.582875	Y
2	IC 410-314883/4	0.25	0.375472	5.0	112818.0	1.501888	Y
3	IC 410-314883/9	1.25	1.806006	5.0	121215.0	1.444805	Y
4	IC 410-314883/8	3.75	5.153227	5.0	116298.0	1.374194	Y
5	IC 410-314883/7	7.5	11.684862	5.0	113947.0	1.557982	Y
6	ICIS 410-314883/2	12.5	18.843008	5.0	123592.0	1.507441	Y
7	IC 410-314883/6	20.0	30.100022	5.0	116924.0	1.505001	Y
8	IC 410-314883/5	30.0	44.622906	5.0	115727.0	1.48743	Y



Calibration / Benzyl alcohol

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

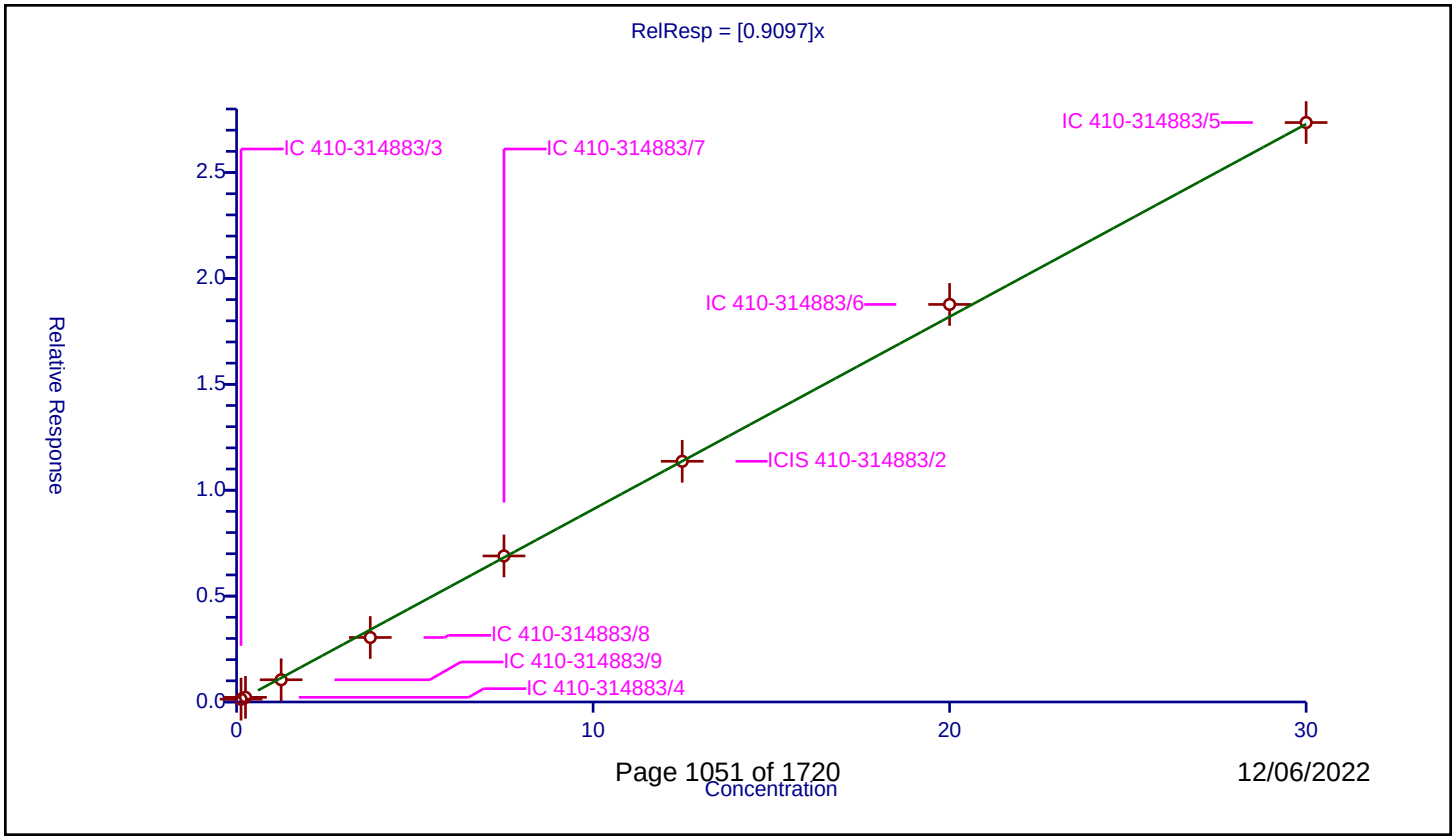
Curve Coefficients

Intercept:	0
Slope:	0.9097

Error Coefficients

Standard Error:	317000
Relative Standard Error:	8.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.1334	5.0	116042.0	1.0672	Y
2	IC 410-314883/4	0.25	0.21969	5.0	112818.0	0.87876	Y
3	IC 410-314883/9	1.25	1.049293	5.0	121215.0	0.839434	Y
4	IC 410-314883/8	3.75	3.046527	5.0	116298.0	0.812407	Y
5	IC 410-314883/7	7.5	6.895443	5.0	113947.0	0.919392	Y
6	ICIS 410-314883/2	12.5	11.366391	5.0	123592.0	0.909311	Y
7	IC 410-314883/6	20.0	18.77245	5.0	116924.0	0.938623	Y
8	IC 410-314883/5	30.0	27.362197	5.0	115727.0	0.912073	Y



Calibration / 1,2-Dichlorobenzene

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

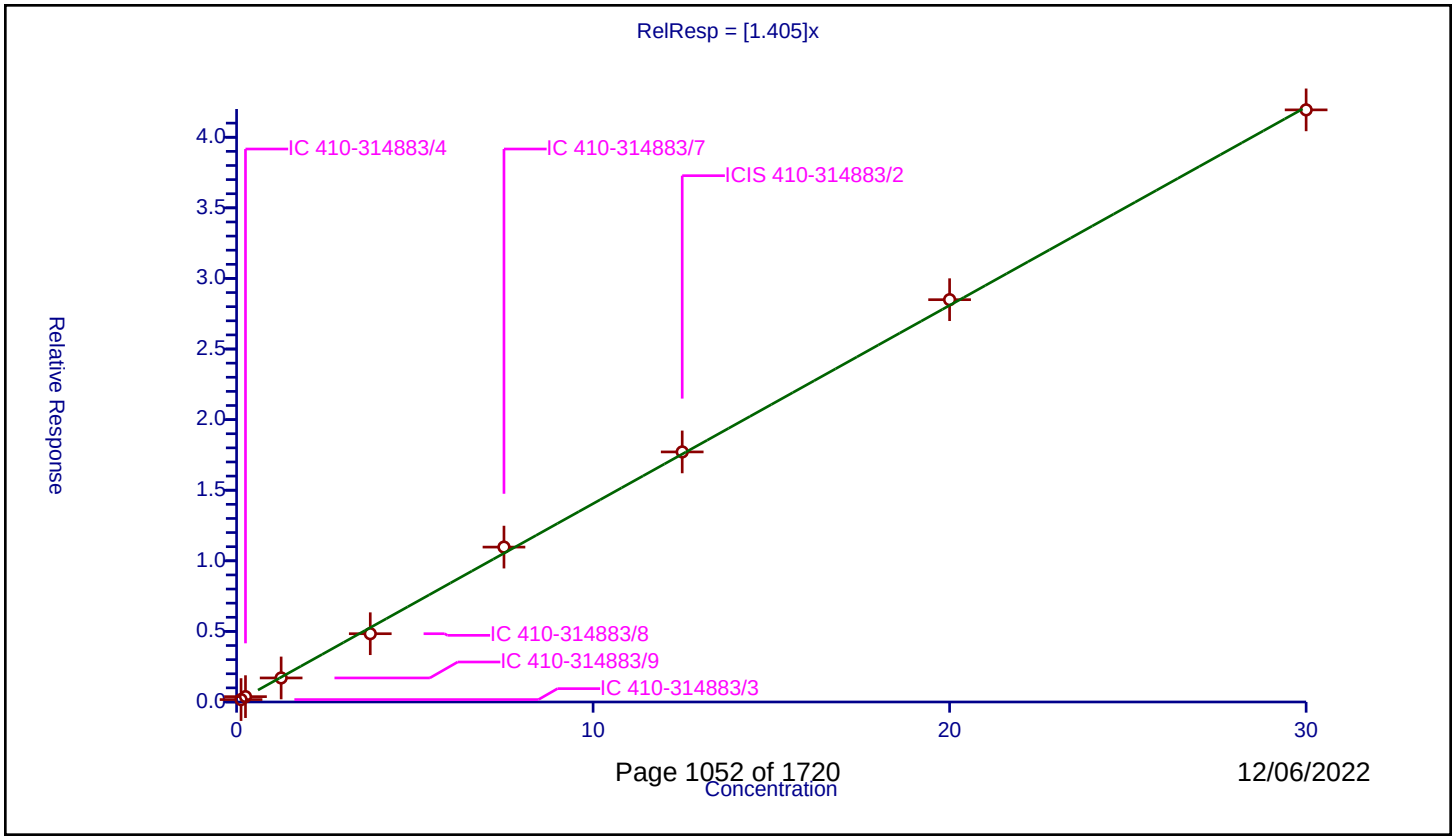
Curve Coefficients

Intercept:	0
Slope:	1.405

Error Coefficients

Standard Error:	486000
Relative Standard Error:	4.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.170585	5.0	116042.0	1.364678	Y
2	IC 410-314883/4	0.25	0.379594	5.0	112818.0	1.518375	Y
3	IC 410-314883/9	1.25	1.702223	5.0	121215.0	1.361779	Y
4	IC 410-314883/8	3.75	4.83667	5.0	116298.0	1.289779	Y
5	IC 410-314883/7	7.5	10.971241	5.0	113947.0	1.462832	Y
6	ICIS 410-314883/2	12.5	17.711866	5.0	123592.0	1.416949	Y
7	IC 410-314883/6	20.0	28.494791	5.0	116924.0	1.42474	Y
8	IC 410-314883/5	30.0	41.940083	5.0	115727.0	1.398003	Y



Calibration / 2-Methylphenol

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

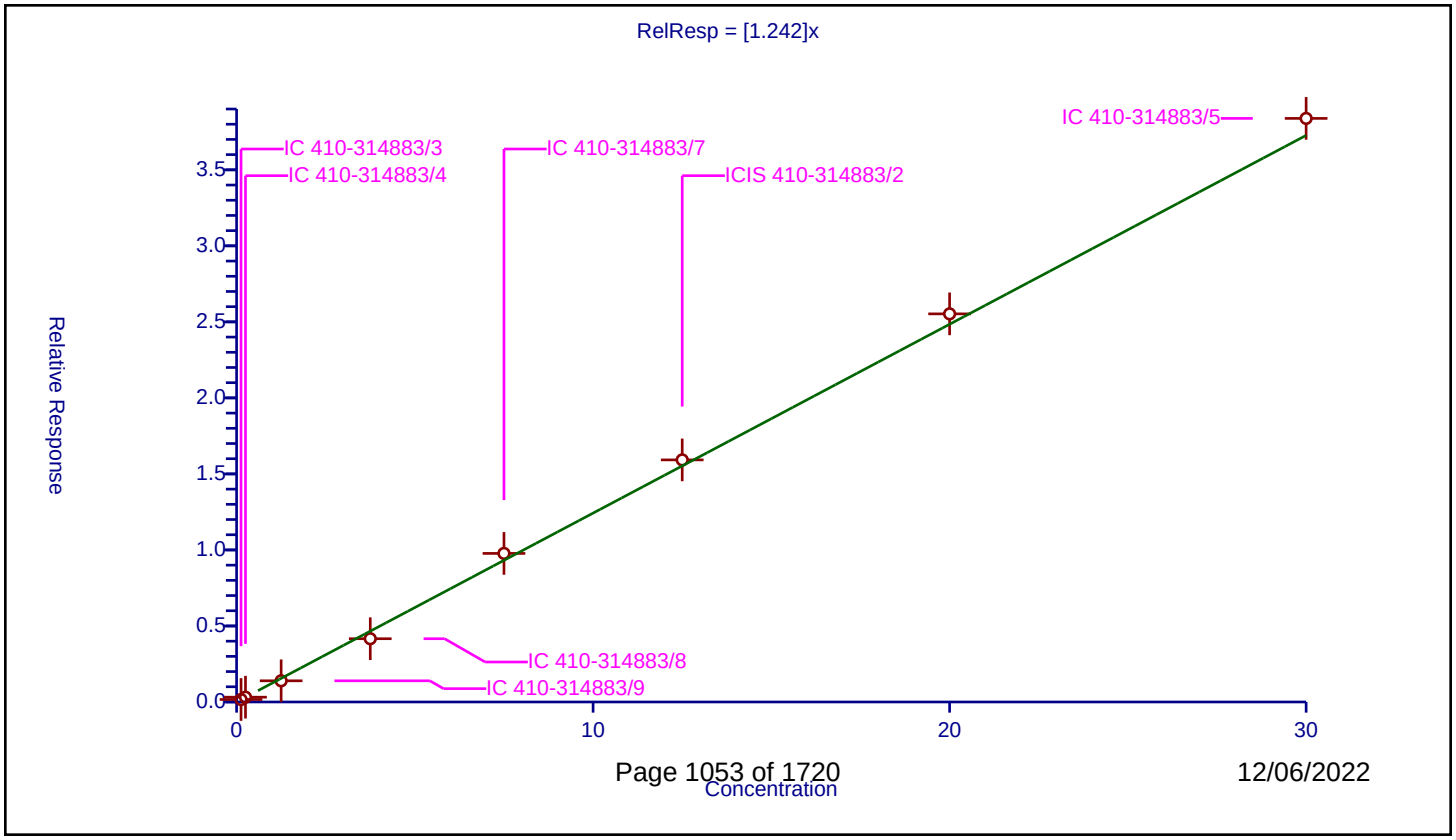
Curve Coefficients

Intercept:	0
Slope:	1.242

Error Coefficients

Standard Error:	441000
Relative Standard Error:	6.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.164509	5.0	116042.0	1.316075	Y
2	IC 410-314883/4	0.25	0.316129	5.0	112818.0	1.264515	Y
3	IC 410-314883/9	1.25	1.393309	5.0	121215.0	1.114648	Y
4	IC 410-314883/8	3.75	4.16125	5.0	116298.0	1.109667	Y
5	IC 410-314883/7	7.5	9.772438	5.0	113947.0	1.302992	Y
6	ICIS 410-314883/2	12.5	15.922754	5.0	123592.0	1.27382	Y
7	IC 410-314883/6	20.0	25.526881	5.0	116924.0	1.276344	Y
8	IC 410-314883/5	30.0	38.381925	5.0	115727.0	1.279397	Y



Calibration / 2,2'-oxybis[1-chloropropane]

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

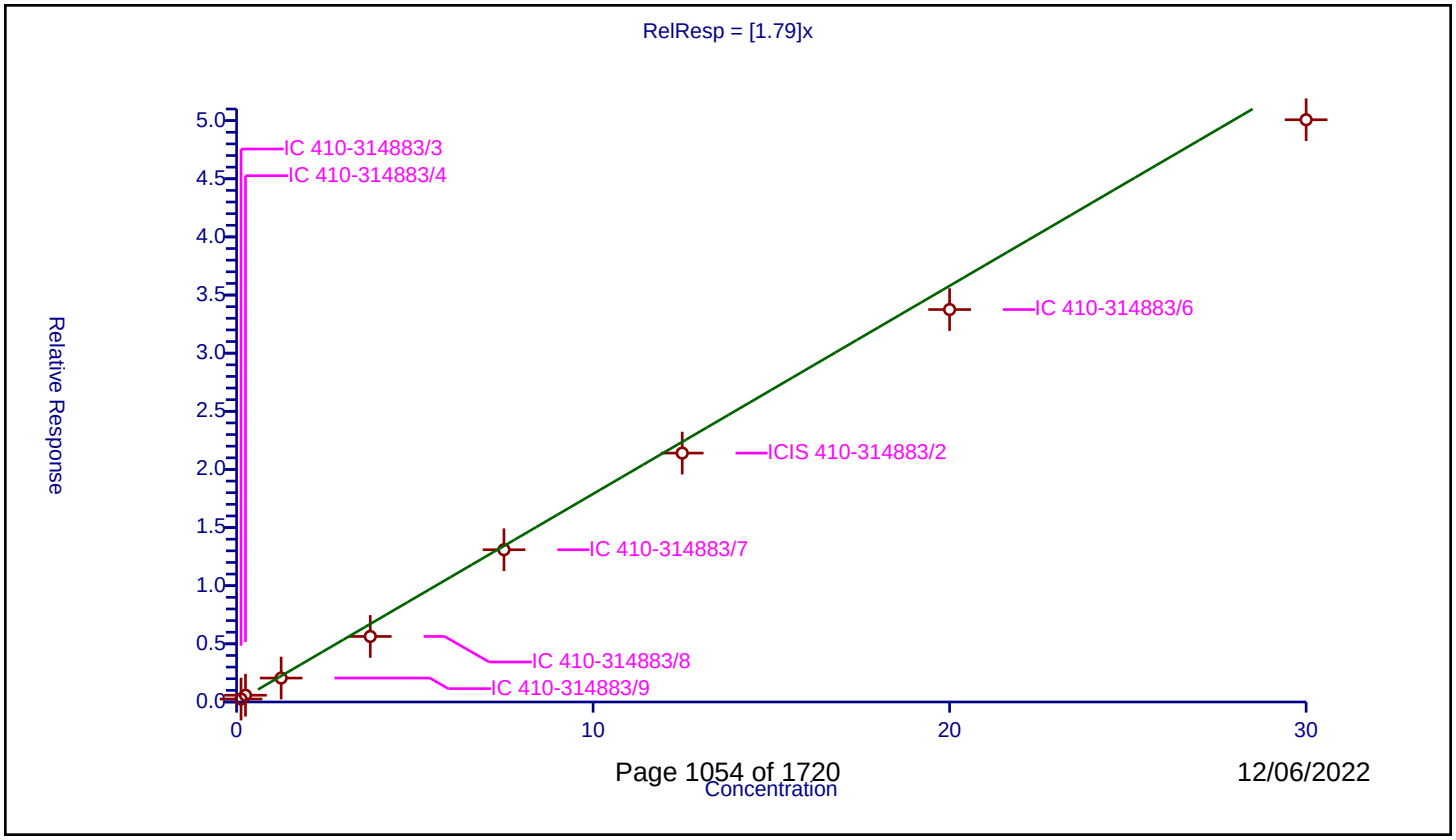
Curve Coefficients

Intercept:	0
Slope:	1.79

Error Coefficients

Standard Error:	580000
Relative Standard Error:	14.6
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.971

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.2534	5.0	116042.0	2.027197	Y
2	IC 410-314883/4	0.25	0.58098	5.0	112818.0	2.32392	Y
3	IC 410-314883/9	1.25	2.058326	5.0	121215.0	1.646661	Y
4	IC 410-314883/8	3.75	5.636984	5.0	116298.0	1.503196	Y
5	IC 410-314883/7	7.5	13.095123	5.0	113947.0	1.746016	Y
6	ICIS 410-314883/2	12.5	21.405714	5.0	123592.0	1.712457	Y
7	IC 410-314883/6	20.0	33.752053	5.0	116924.0	1.687603	Y
8	IC 410-314883/5	30.0	50.07751	5.0	115727.0	1.66925	Y



Calibration / N-Nitrosopyrrolidine

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

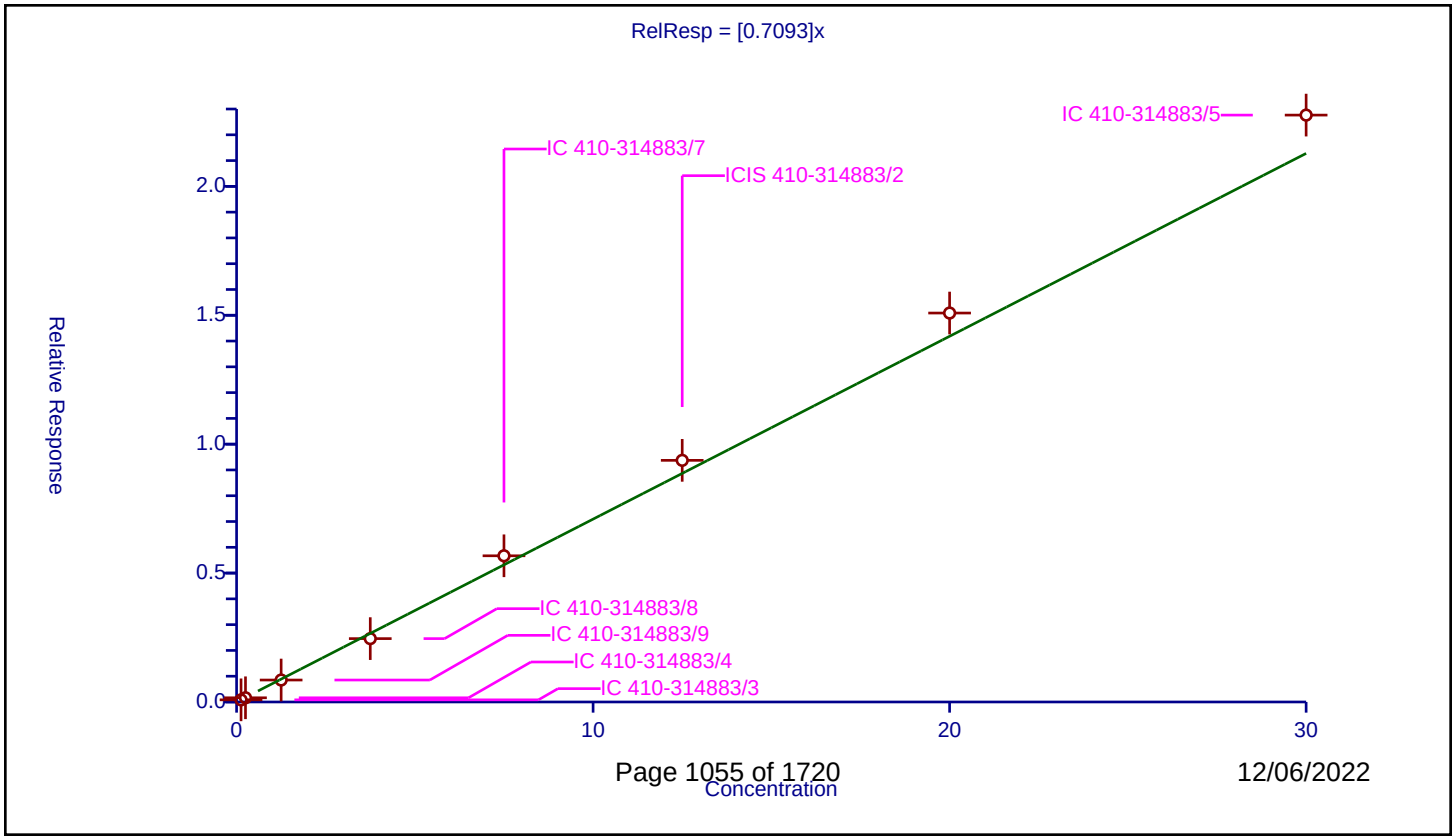
Curve Coefficients

Intercept:	0
Slope:	0.7093

Error Coefficients

Standard Error:	261000
Relative Standard Error:	7.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.083289	5.0	116042.0	0.66631	Y
2	IC 410-314883/4	0.25	0.16305	5.0	112818.0	0.652201	Y
3	IC 410-314883/9	1.25	0.851504	5.0	121215.0	0.681203	Y
4	IC 410-314883/8	3.75	2.45791	5.0	116298.0	0.655443	Y
5	IC 410-314883/7	7.5	5.670443	5.0	113947.0	0.756059	Y
6	ICIS 410-314883/2	12.5	9.372573	5.0	123592.0	0.749806	Y
7	IC 410-314883/6	20.0	15.086595	5.0	116924.0	0.75433	Y
8	IC 410-314883/5	30.0	22.763789	5.0	115727.0	0.758793	Y



Calibration / 4-Methylphenol

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

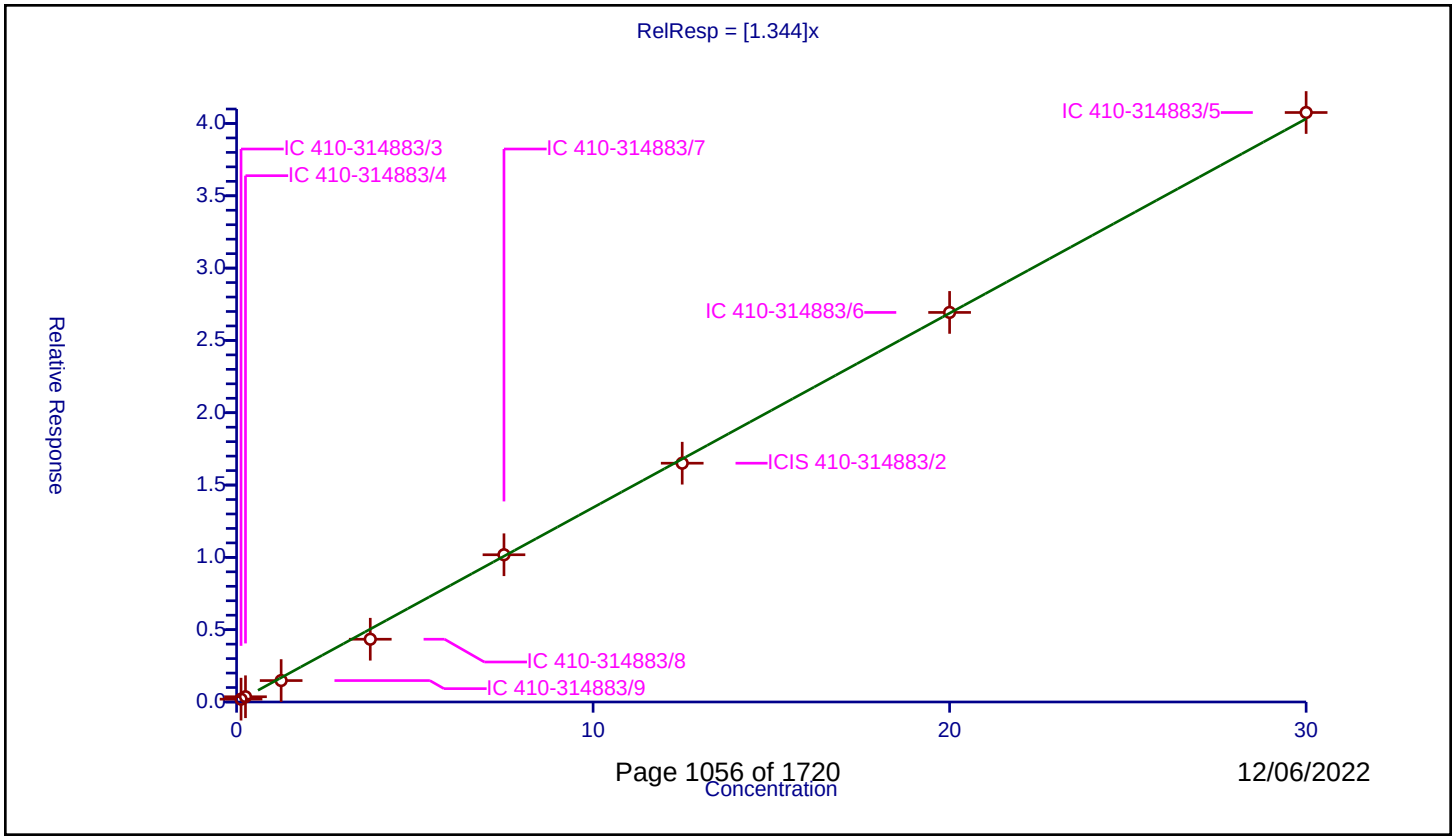
Curve Coefficients

Intercept:	0
Slope:	1.344

Error Coefficients

Standard Error:	466000
Relative Standard Error:	10.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.197127	5.0	116042.0	1.577015	Y
2	IC 410-314883/4	0.25	0.362442	5.0	112818.0	1.449769	Y
3	IC 410-314883/9	1.25	1.481706	5.0	121215.0	1.185365	Y
4	IC 410-314883/8	3.75	4.339971	5.0	116298.0	1.157326	Y
5	IC 410-314883/7	7.5	10.18004	5.0	113947.0	1.357339	Y
6	ICIS 410-314883/2	12.5	16.509928	5.0	123592.0	1.320794	Y
7	IC 410-314883/6	20.0	26.935916	5.0	116924.0	1.346796	Y
8	IC 410-314883/5	30.0	40.759157	5.0	115727.0	1.358639	Y



Calibration / N-Nitrosodi-n-propylamine

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

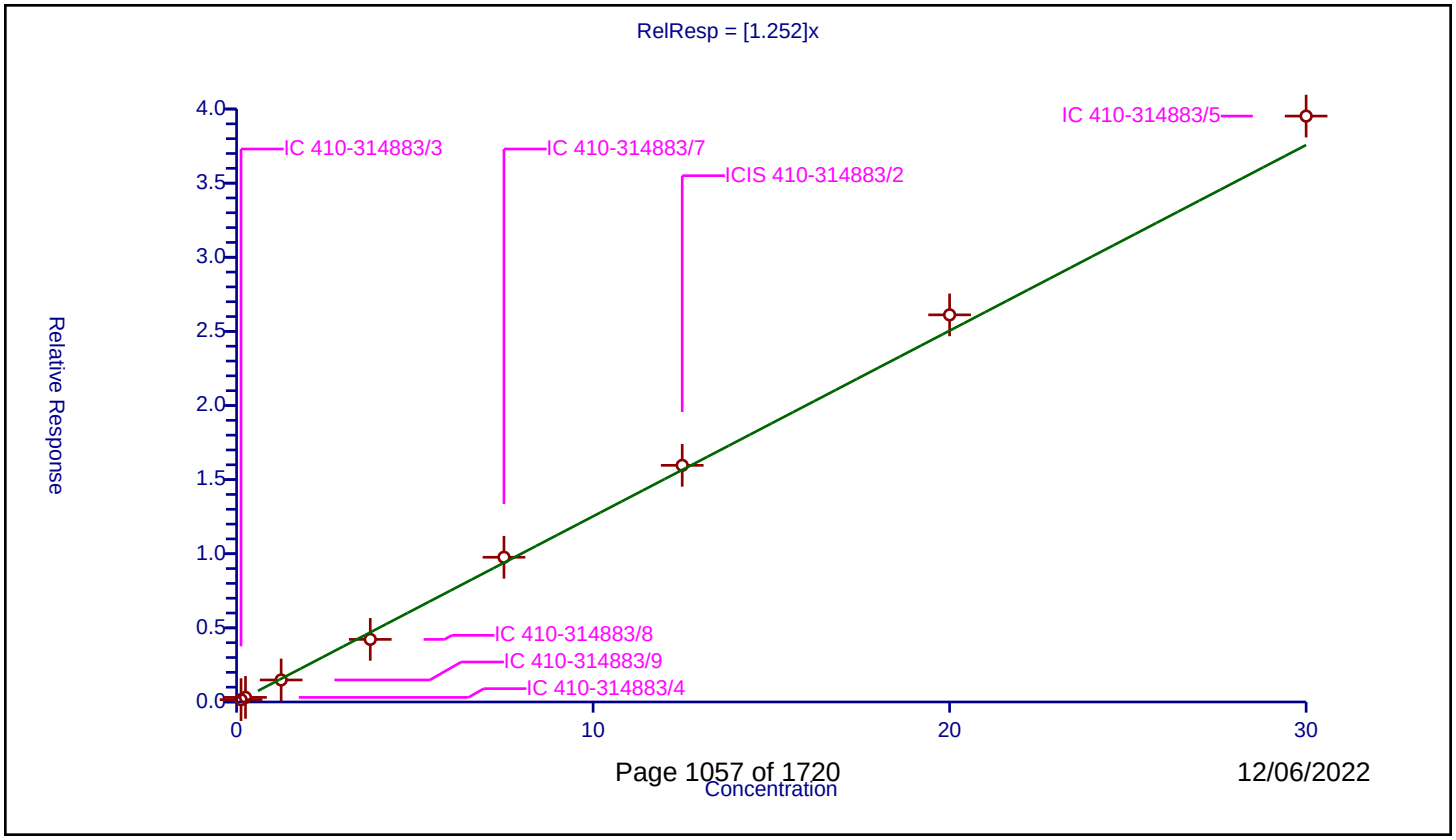
Curve Coefficients

Intercept:	0
Slope:	1.252

Error Coefficients

Standard Error:	451000
Relative Standard Error:	5.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.157486	5.0	116042.0	1.259889	Y
2	IC 410-314883/4	0.25	0.310722	5.0	112818.0	1.242887	Y
3	IC 410-314883/9	1.25	1.48513	5.0	121215.0	1.188104	Y
4	IC 410-314883/8	3.75	4.223374	5.0	116298.0	1.126233	Y
5	IC 410-314883/7	7.5	9.763179	5.0	113947.0	1.301757	Y
6	ICIS 410-314883/2	12.5	15.963736	5.0	123592.0	1.277099	Y
7	IC 410-314883/6	20.0	26.115254	5.0	116924.0	1.305763	Y
8	IC 410-314883/5	30.0	39.522843	5.0	115727.0	1.317428	Y



Calibration / Acetophenone

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

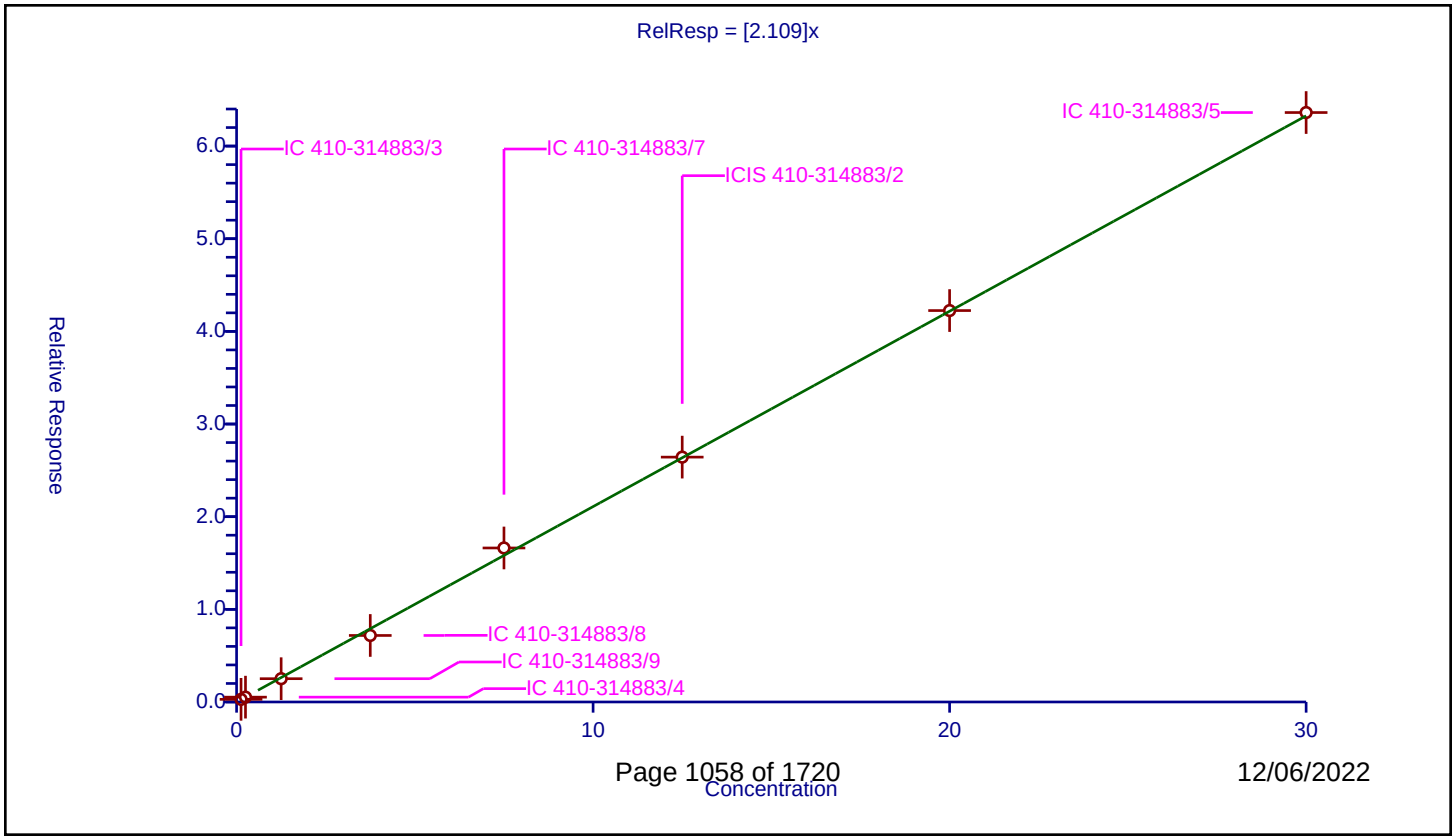
Curve Coefficients

Intercept:	0
Slope:	2.109

Error Coefficients

Standard Error:	732000
Relative Standard Error:	5.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.286965	5.0	116042.0	2.295721	Y
2	IC 410-314883/4	0.25	0.521105	5.0	112818.0	2.084419	Y
3	IC 410-314883/9	1.25	2.514953	5.0	121215.0	2.011962	Y
4	IC 410-314883/8	3.75	7.179745	5.0	116298.0	1.914599	Y
5	IC 410-314883/7	7.5	16.623211	5.0	113947.0	2.216428	Y
6	ICIS 410-314883/2	12.5	26.428248	5.0	123592.0	2.11426	Y
7	IC 410-314883/6	20.0	42.246801	5.0	116924.0	2.11234	Y
8	IC 410-314883/5	30.0	63.621281	5.0	115727.0	2.120709	Y



Calibration / N-Nitrosomorpholine

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

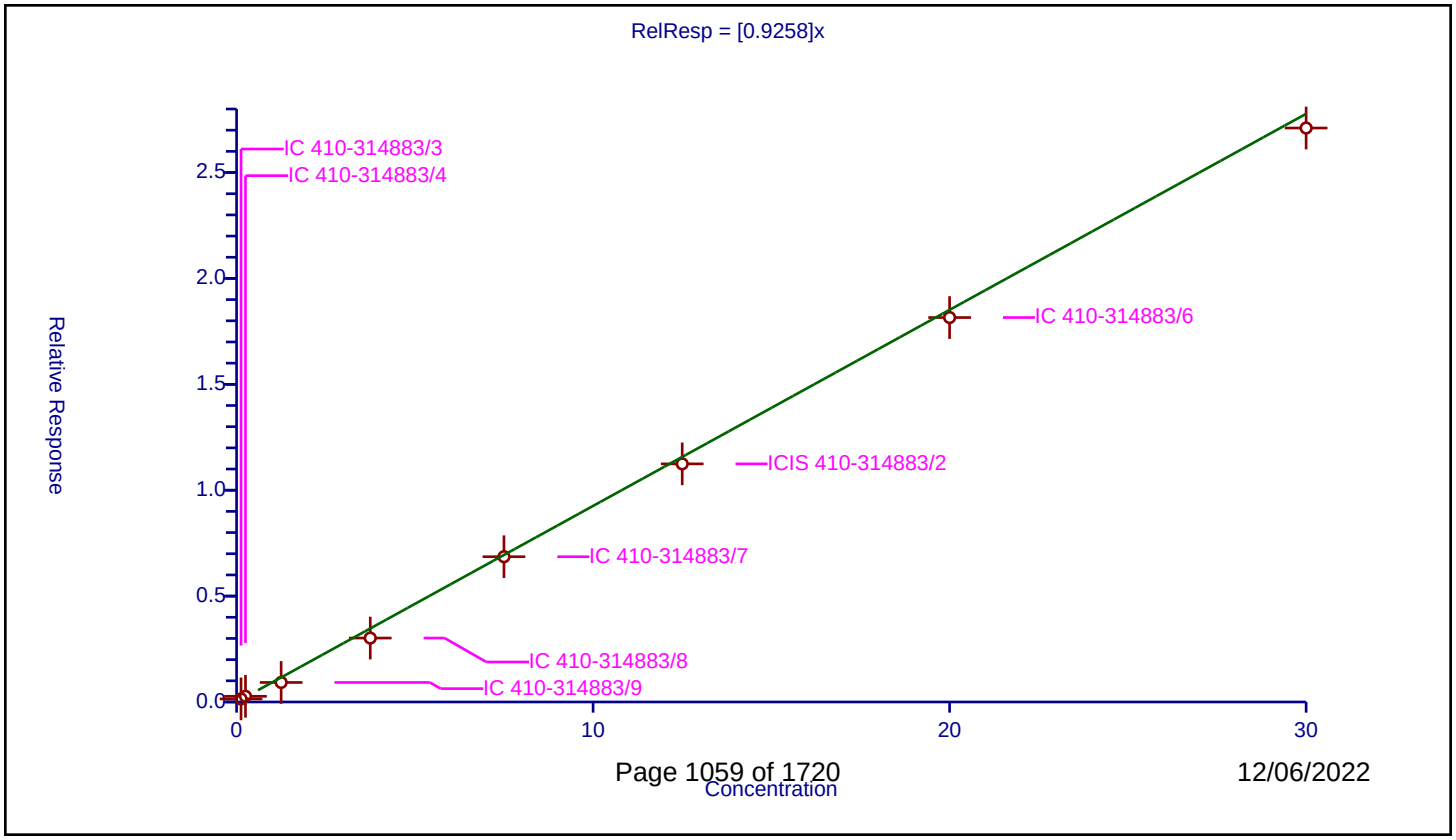
Curve Coefficients

Intercept:	0
Slope:	0.9258

Error Coefficients

Standard Error:	312000
Relative Standard Error:	14.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.970

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.145508	5.0	116042.0	1.164061	Y
2	IC 410-314883/4	0.25	0.268574	5.0	112818.0	1.074297	Y
3	IC 410-314883/9	1.25	0.922039	5.0	121215.0	0.737631	Y
4	IC 410-314883/8	3.75	3.018453	5.0	116298.0	0.804921	Y
5	IC 410-314883/7	7.5	6.859505	5.0	113947.0	0.914601	Y
6	ICIS 410-314883/2	12.5	11.244377	5.0	123592.0	0.89955	Y
7	IC 410-314883/6	20.0	18.153202	5.0	116924.0	0.90766	Y
8	IC 410-314883/5	30.0	27.102707	5.0	115727.0	0.903424	Y



Calibration / 2-Toluidine

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

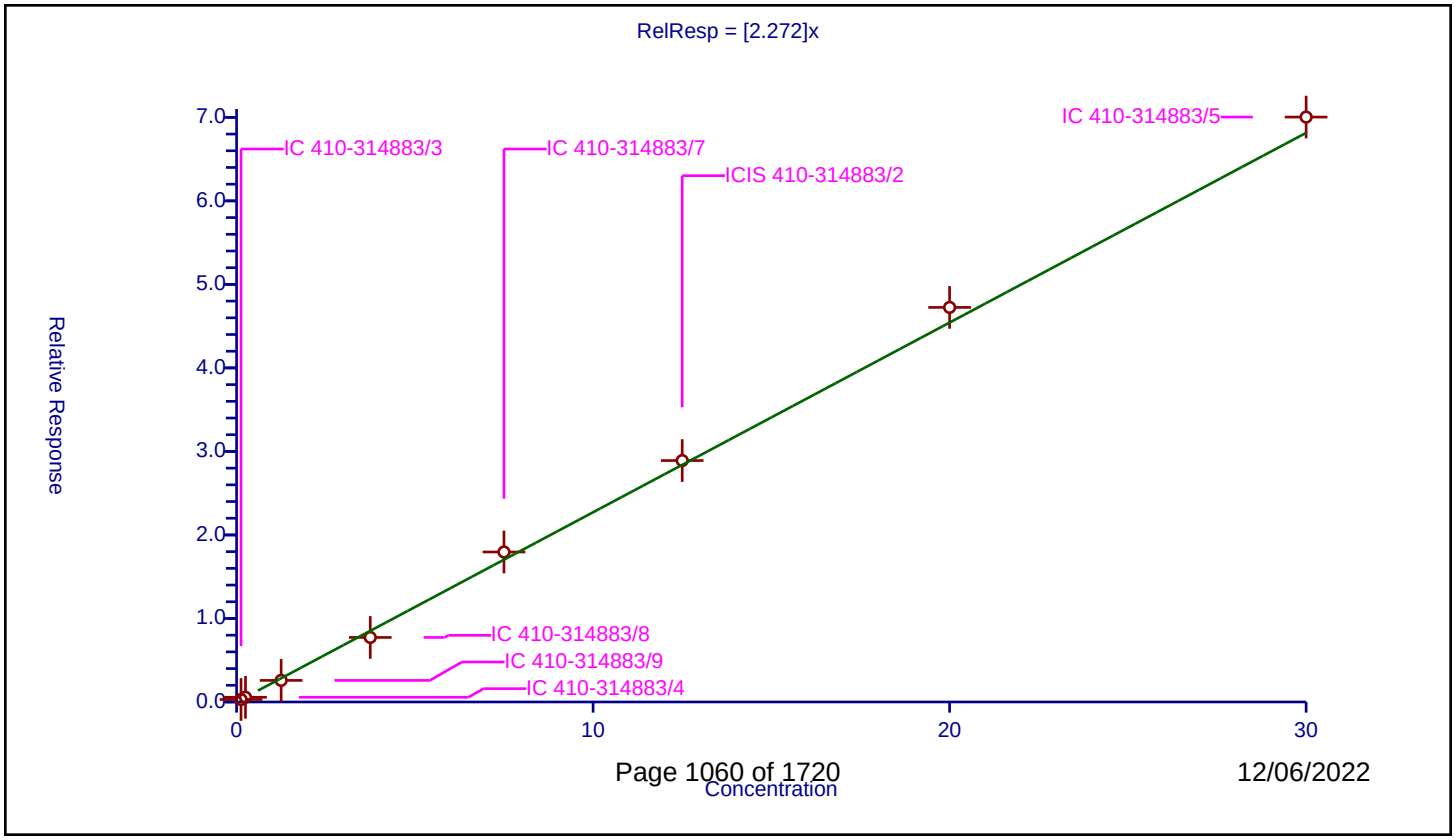
Curve Coefficients

Intercept:	0
Slope:	2.272

Error Coefficients

Standard Error:	807000
Relative Standard Error:	5.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.297263	5.0	116042.0	2.378104	Y
2	IC 410-314883/4	0.25	0.565202	5.0	112818.0	2.260809	Y
3	IC 410-314883/9	1.25	2.585612	5.0	121215.0	2.06849	Y
4	IC 410-314883/8	3.75	7.728336	5.0	116298.0	2.06089	Y
5	IC 410-314883/7	7.5	17.959841	5.0	113947.0	2.394645	Y
6	ICIS 410-314883/2	12.5	28.907089	5.0	123592.0	2.312567	Y
7	IC 410-314883/6	20.0	47.24338	5.0	116924.0	2.362169	Y
8	IC 410-314883/5	30.0	70.035342	5.0	115727.0	2.334511	Y



Calibration / Hexachloroethane

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

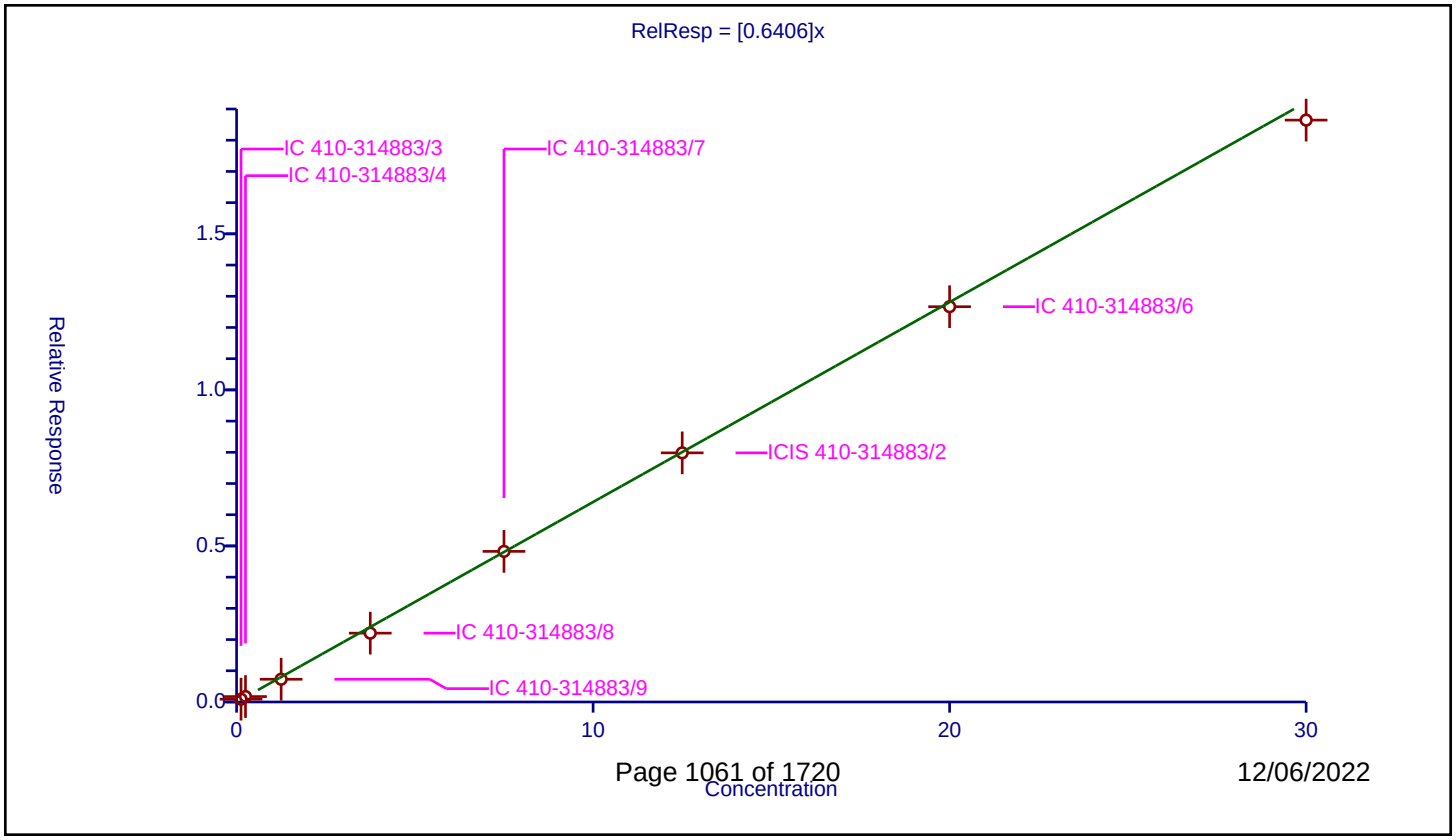
Curve Coefficients

Intercept:	0
Slope:	0.6406

Error Coefficients

Standard Error:	216000
Relative Standard Error:	7.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.09014	5.0	116042.0	0.721118	Y
2	IC 410-314883/4	0.25	0.173997	5.0	112818.0	0.695988	Y
3	IC 410-314883/9	1.25	0.72854	5.0	121215.0	0.582832	Y
4	IC 410-314883/8	3.75	2.205713	5.0	116298.0	0.58819	Y
5	IC 410-314883/7	7.5	4.825138	5.0	113947.0	0.643352	Y
6	ICIS 410-314883/2	12.5	7.982515	5.0	123592.0	0.638601	Y
7	IC 410-314883/6	20.0	12.665535	5.0	116924.0	0.633277	Y
8	IC 410-314883/5	30.0	18.644266	5.0	115727.0	0.621476	Y



Calibration / Nitrobenzene-d5

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

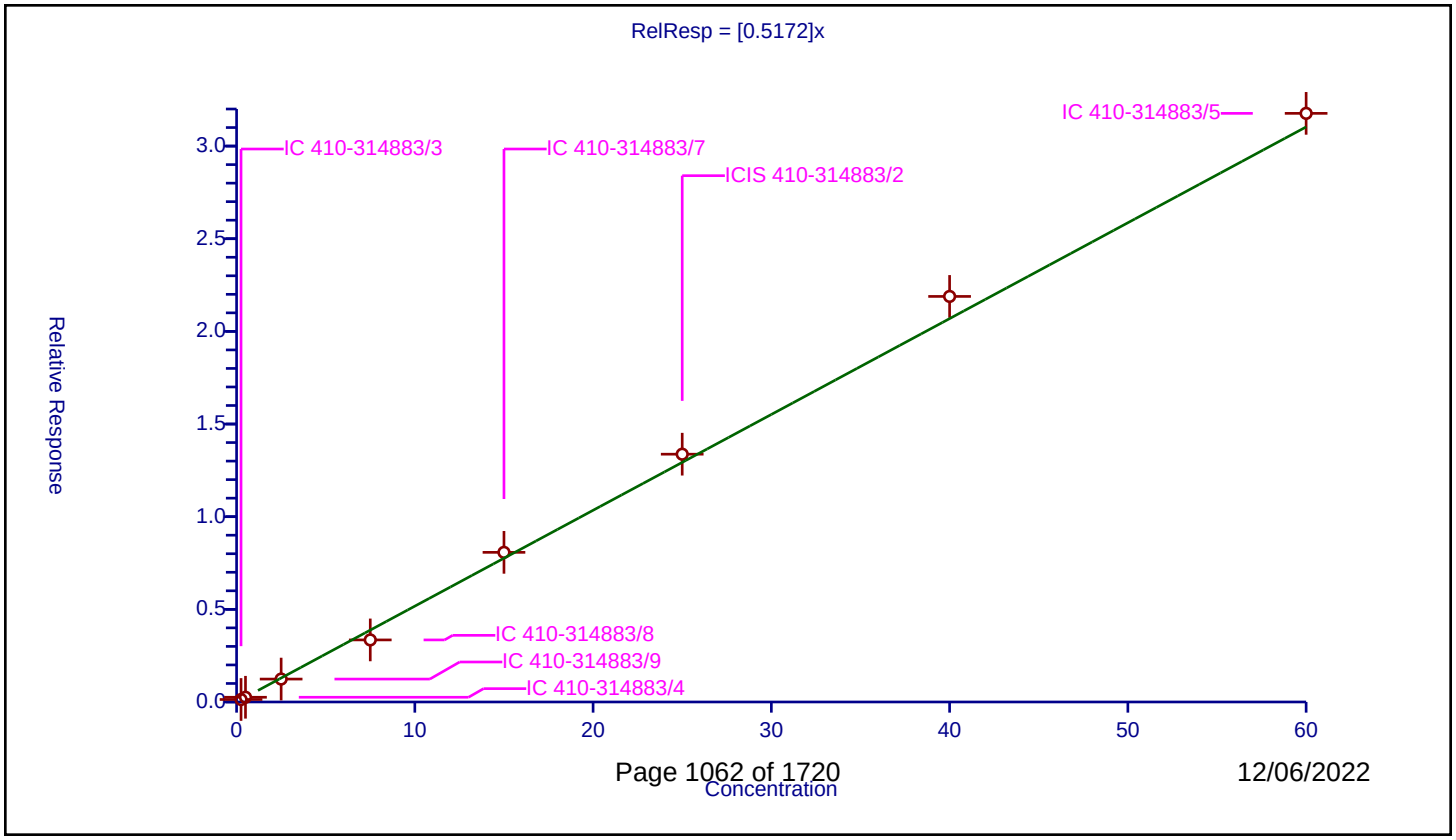
Curve Coefficients

Intercept:	0
Slope:	0.5172

Error Coefficients

Standard Error:	1270000
Relative Standard Error:	6.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.25	0.133963	5.0	395445.0	0.535852	Y
2	IC 410-314883/4	0.5	0.255479	5.0	386823.0	0.510957	Y
3	IC 410-314883/9	2.5	1.236267	5.0	428633.0	0.494507	Y
4	IC 410-314883/8	7.5	3.349712	5.0	429637.0	0.446628	Y
5	IC 410-314883/7	15.0	8.075412	5.0	398771.0	0.538361	Y
6	ICIS 410-314883/2	25.0	13.372411	5.0	422146.0	0.534896	Y
7	IC 410-314883/6	40.0	21.886309	5.0	398580.0	0.547158	Y
8	IC 410-314883/5	60.0	31.764718	5.0	401747.0	0.529412	Y



Calibration / Nitrobenzene

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

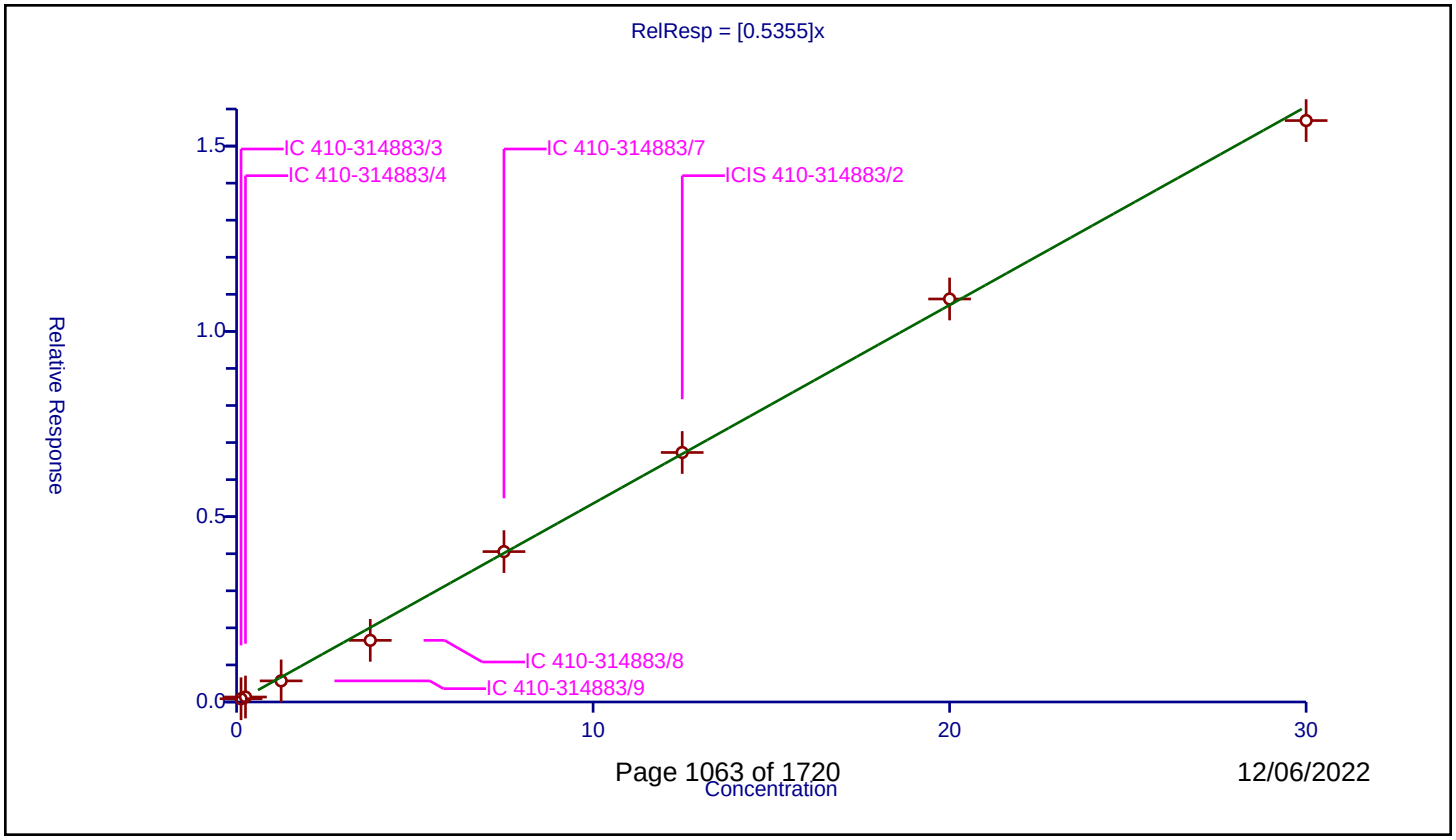
Curve Coefficients

Intercept:	0
Slope:	0.5355

Error Coefficients

Standard Error:	631000
Relative Standard Error:	14.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.971

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.08761	5.0	395445.0	0.700881	Y
2	IC 410-314883/4	0.25	0.134441	5.0	386823.0	0.537765	Y
3	IC 410-314883/9	1.25	0.569532	5.0	428633.0	0.455625	Y
4	IC 410-314883/8	3.75	1.663009	5.0	429637.0	0.443469	Y
5	IC 410-314883/7	7.5	4.058068	5.0	398771.0	0.541076	Y
6	ICIS 410-314883/2	12.5	6.732422	5.0	422146.0	0.538594	Y
7	IC 410-314883/6	20.0	10.873664	5.0	398580.0	0.543683	Y
8	IC 410-314883/5	30.0	15.688281	5.0	401747.0	0.522943	Y



Calibration / N-Nitrosopiperidine

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

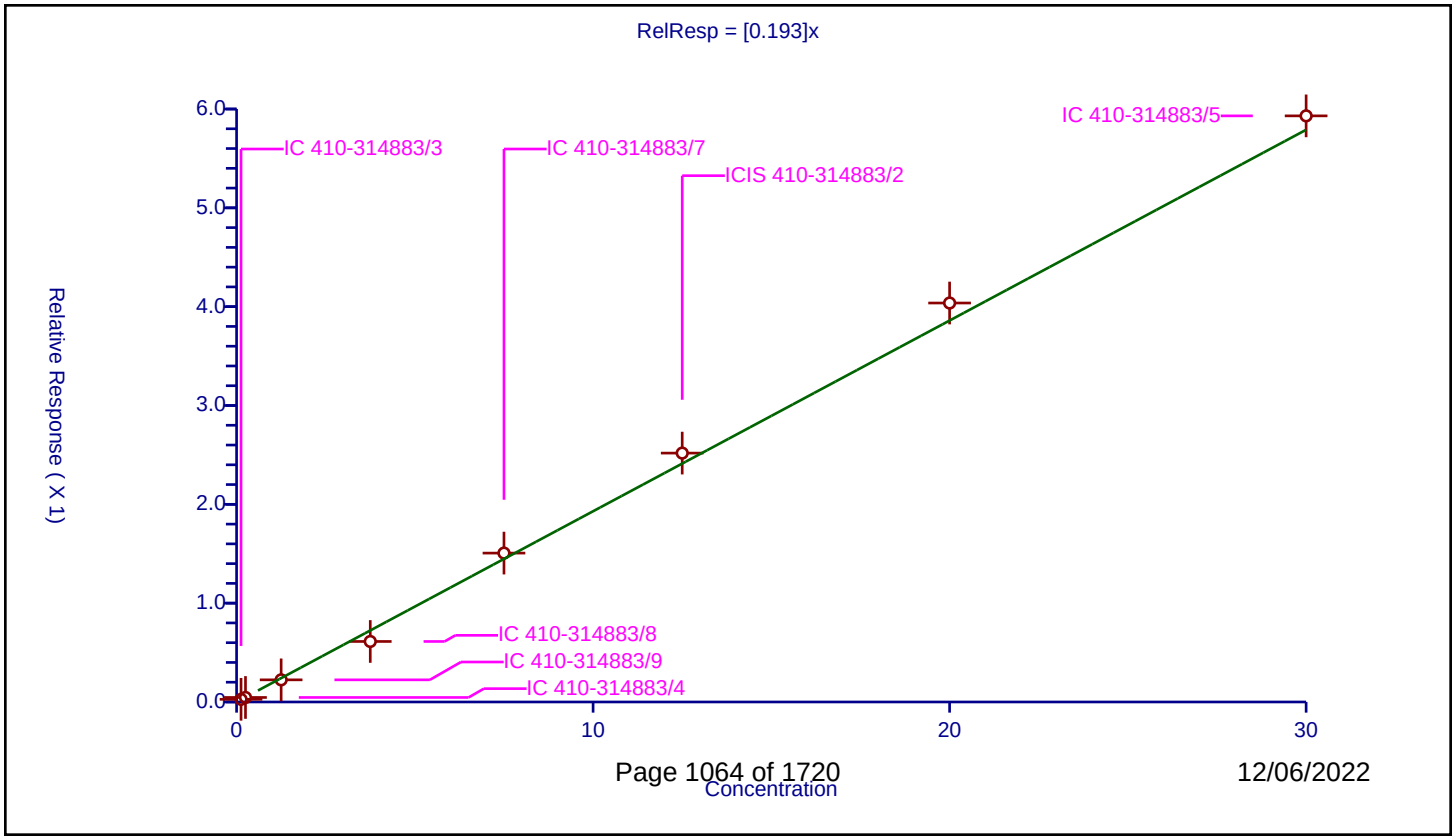
Curve Coefficients

Intercept:	0
Slope:	0.193

Error Coefficients

Standard Error:	237000
Relative Standard Error:	8.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.027109	5.0	395445.0	0.21687	Y
2	IC 410-314883/4	0.25	0.04568	5.0	386823.0	0.182719	Y
3	IC 410-314883/9	1.25	0.223991	5.0	428633.0	0.179193	Y
4	IC 410-314883/8	3.75	0.612261	5.0	429637.0	0.16327	Y
5	IC 410-314883/7	7.5	1.506579	5.0	398771.0	0.200877	Y
6	ICIS 410-314883/2	12.5	2.518418	5.0	422146.0	0.201473	Y
7	IC 410-314883/6	20.0	4.037019	5.0	398580.0	0.201851	Y
8	IC 410-314883/5	30.0	5.930623	5.0	401747.0	0.197687	Y



Calibration / Isophorone

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

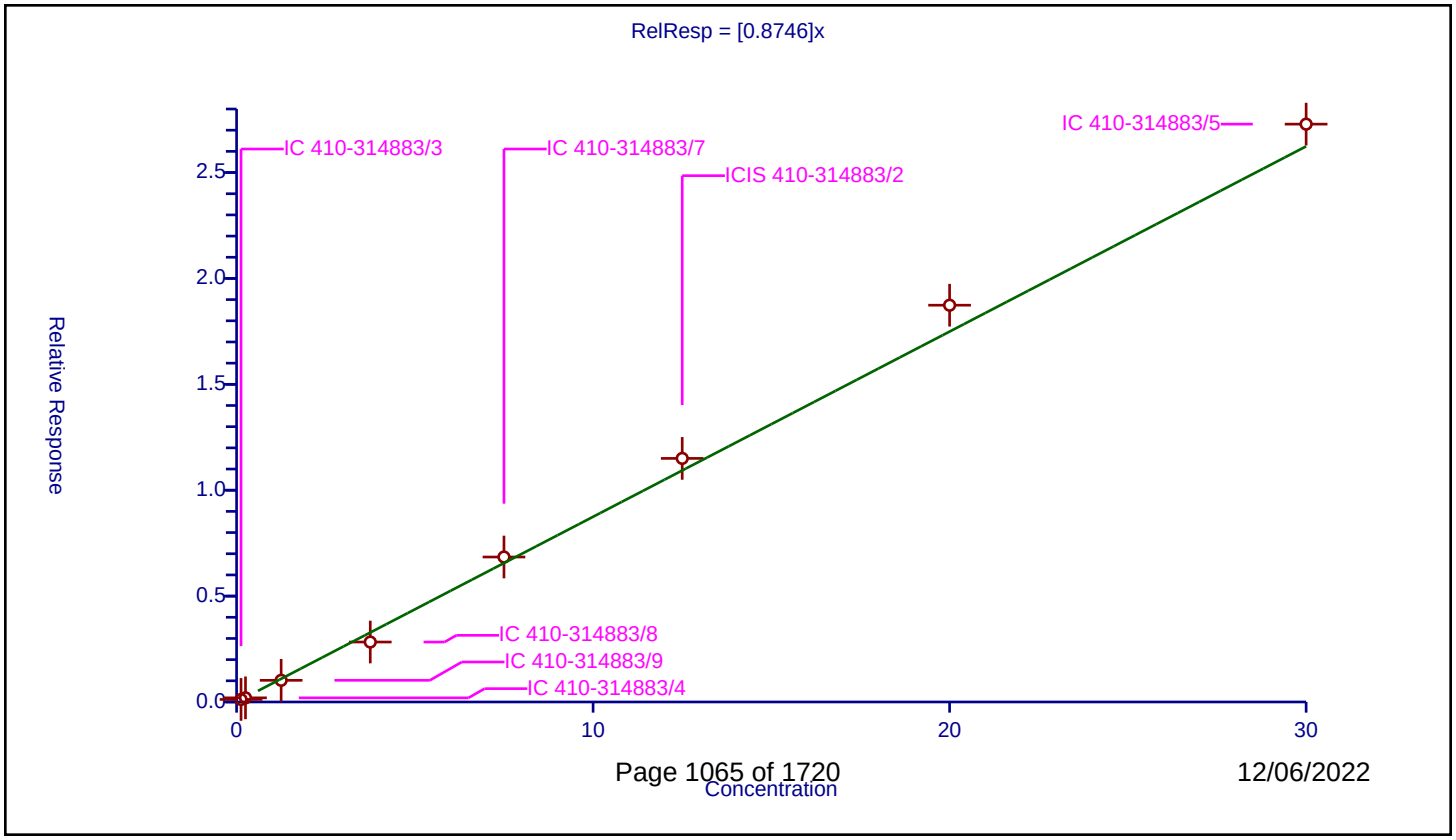
Curve Coefficients

Intercept:	0
Slope:	0.8746

Error Coefficients

Standard Error:	1090000
Relative Standard Error:	8.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.120219	5.0	395445.0	0.961752	Y
2	IC 410-314883/4	0.25	0.195542	5.0	386823.0	0.782167	Y
3	IC 410-314883/9	1.25	1.022985	5.0	428633.0	0.818388	Y
4	IC 410-314883/8	3.75	2.831216	5.0	429637.0	0.754991	Y
5	IC 410-314883/7	7.5	6.845056	5.0	398771.0	0.912674	Y
6	ICIS 410-314883/2	12.5	11.501743	5.0	422146.0	0.920139	Y
7	IC 410-314883/6	20.0	18.735938	5.0	398580.0	0.936797	Y
8	IC 410-314883/5	30.0	27.286514	5.0	401747.0	0.90955	Y



Calibration / 2-Nitrophenol

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

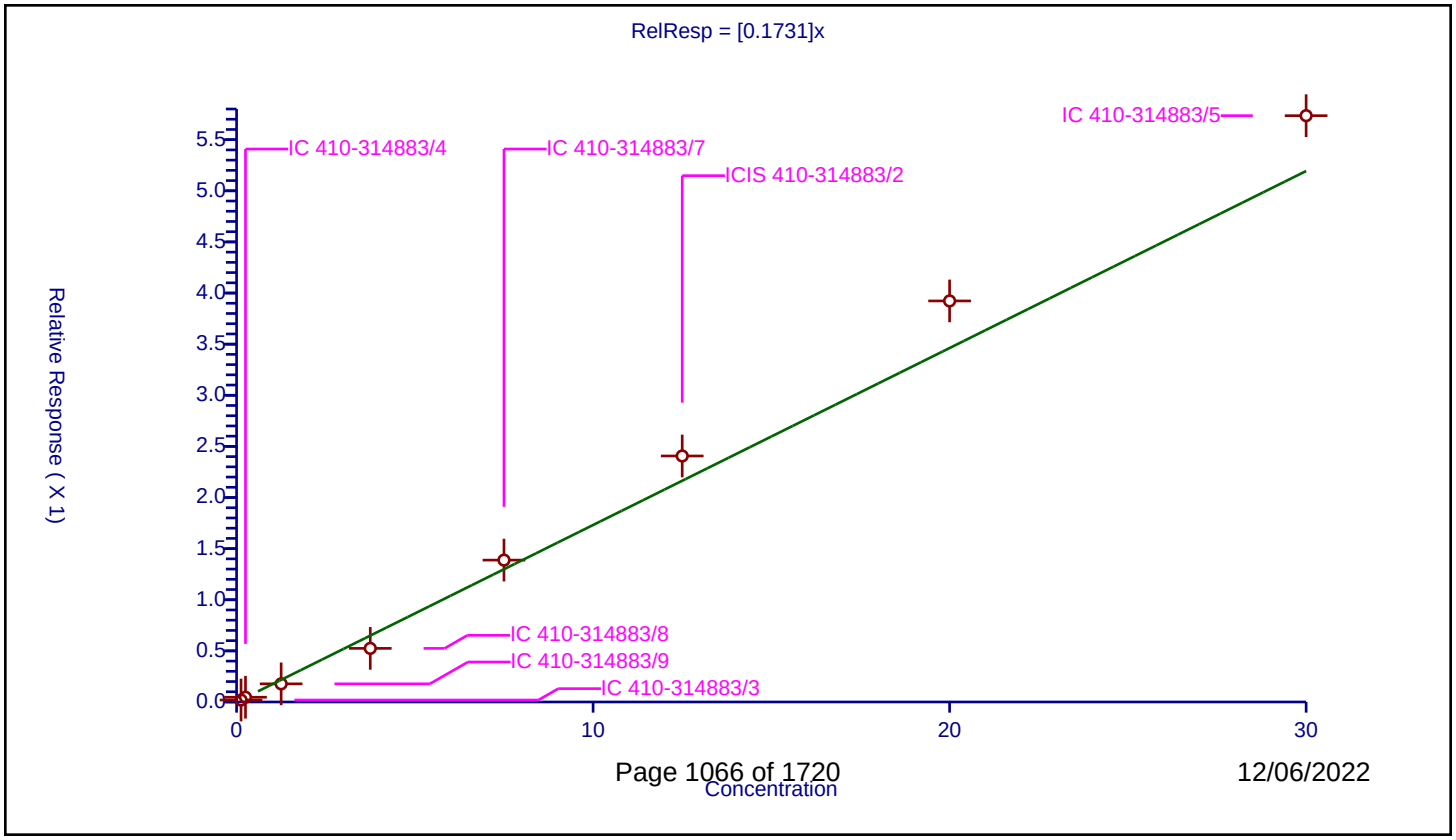
Curve Coefficients

Intercept:	0
Slope:	0.1731

Error Coefficients

Standard Error:	229000
Relative Standard Error:	13.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.019042	5.0	395445.0	0.152335	Y
2	IC 410-314883/4	0.25	0.046455	5.0	386823.0	0.185821	Y
3	IC 410-314883/9	1.25	0.177518	5.0	428633.0	0.142014	Y
4	IC 410-314883/8	3.75	0.524443	5.0	429637.0	0.139851	Y
5	IC 410-314883/7	7.5	1.387852	5.0	398771.0	0.185047	Y
6	ICIS 410-314883/2	12.5	2.406205	5.0	422146.0	0.192496	Y
7	IC 410-314883/6	20.0	3.922726	5.0	398580.0	0.196136	Y
8	IC 410-314883/5	30.0	5.734878	5.0	401747.0	0.191163	Y



Calibration / 2,4-Dimethylphenol

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

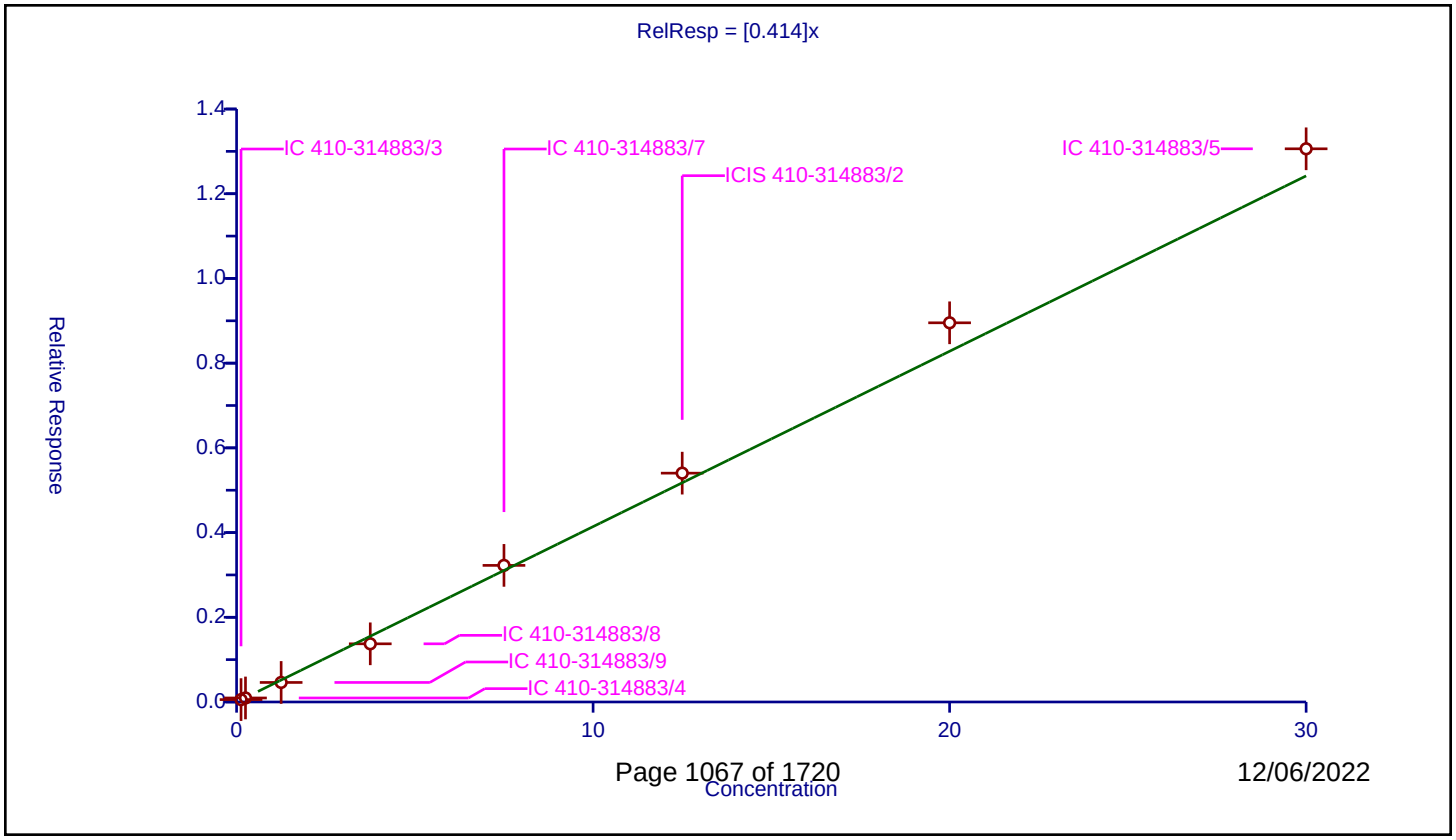
Curve Coefficients

Intercept:	0
Slope:	0.414

Error Coefficients

Standard Error:	521000
Relative Standard Error:	8.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.056557	5.0	395445.0	0.452452	Y
2	IC 410-314883/4	0.25	0.094798	5.0	386823.0	0.379192	Y
3	IC 410-314883/9	1.25	0.461409	5.0	428633.0	0.369127	Y
4	IC 410-314883/8	3.75	1.373706	5.0	429637.0	0.366322	Y
5	IC 410-314883/7	7.5	3.224883	5.0	398771.0	0.429984	Y
6	ICIS 410-314883/2	12.5	5.40261	5.0	422146.0	0.432209	Y
7	IC 410-314883/6	20.0	8.952343	5.0	398580.0	0.447617	Y
8	IC 410-314883/5	30.0	13.06072	5.0	401747.0	0.435357	Y



Calibration

/ o,o',o''-Triethylphosphorothioate

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

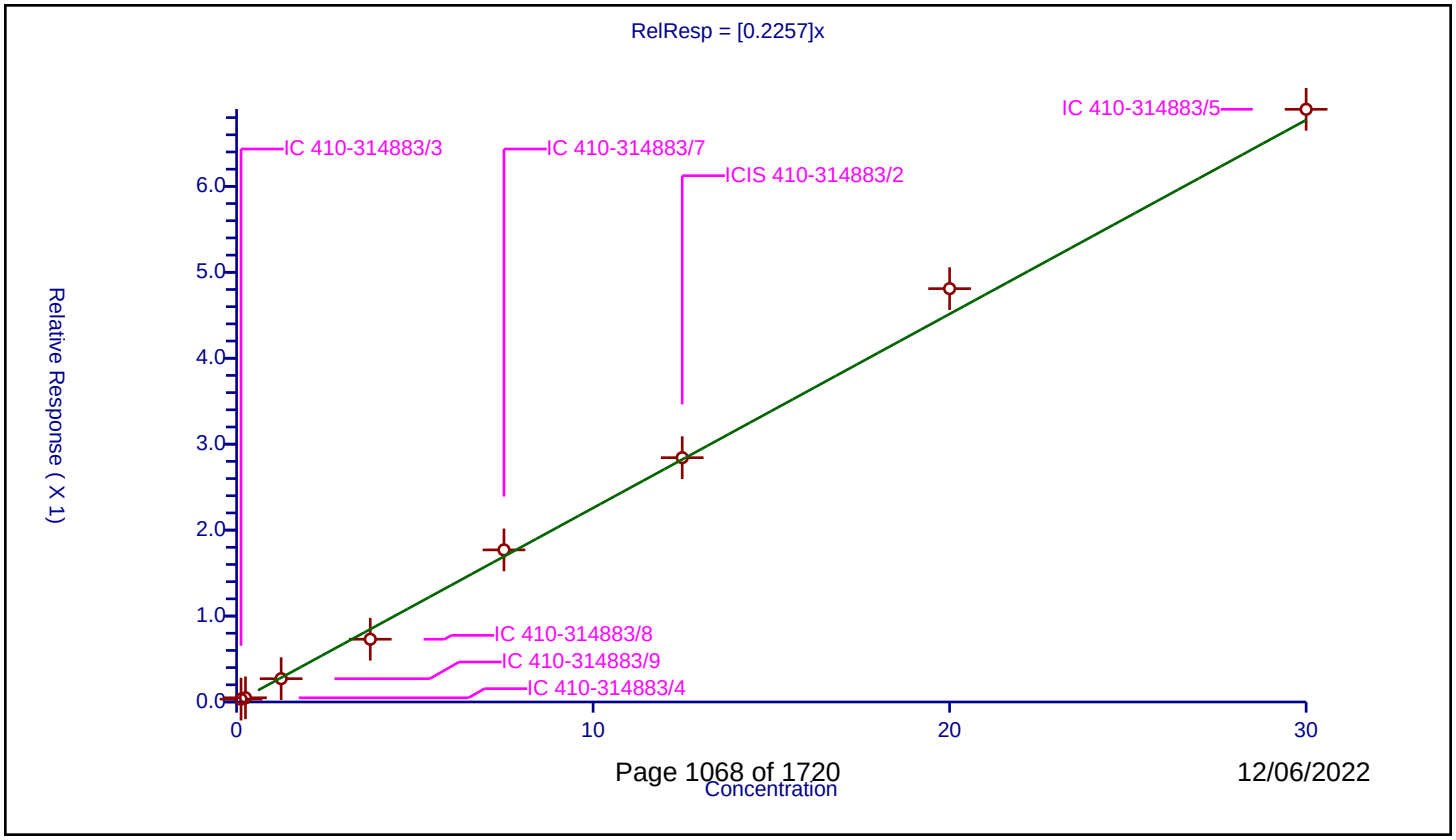
Curve Coefficients

Intercept:	0
Slope:	0.2257

Error Coefficients

Standard Error:	277000
Relative Standard Error:	10.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.033216	5.0	395445.0	0.265726	Y
2	IC 410-314883/4	0.25	0.048743	5.0	386823.0	0.194973	Y
3	IC 410-314883/9	1.25	0.271001	5.0	428633.0	0.216801	Y
4	IC 410-314883/8	3.75	0.730186	5.0	429637.0	0.194716	Y
5	IC 410-314883/7	7.5	1.769838	5.0	398771.0	0.235978	Y
6	ICIS 410-314883/2	12.5	2.842701	5.0	422146.0	0.227416	Y
7	IC 410-314883/6	20.0	4.80975	5.0	398580.0	0.240487	Y
8	IC 410-314883/5	30.0	6.896617	5.0	401747.0	0.229887	Y



Calibration / Bis(2-chloroethoxy)methane

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

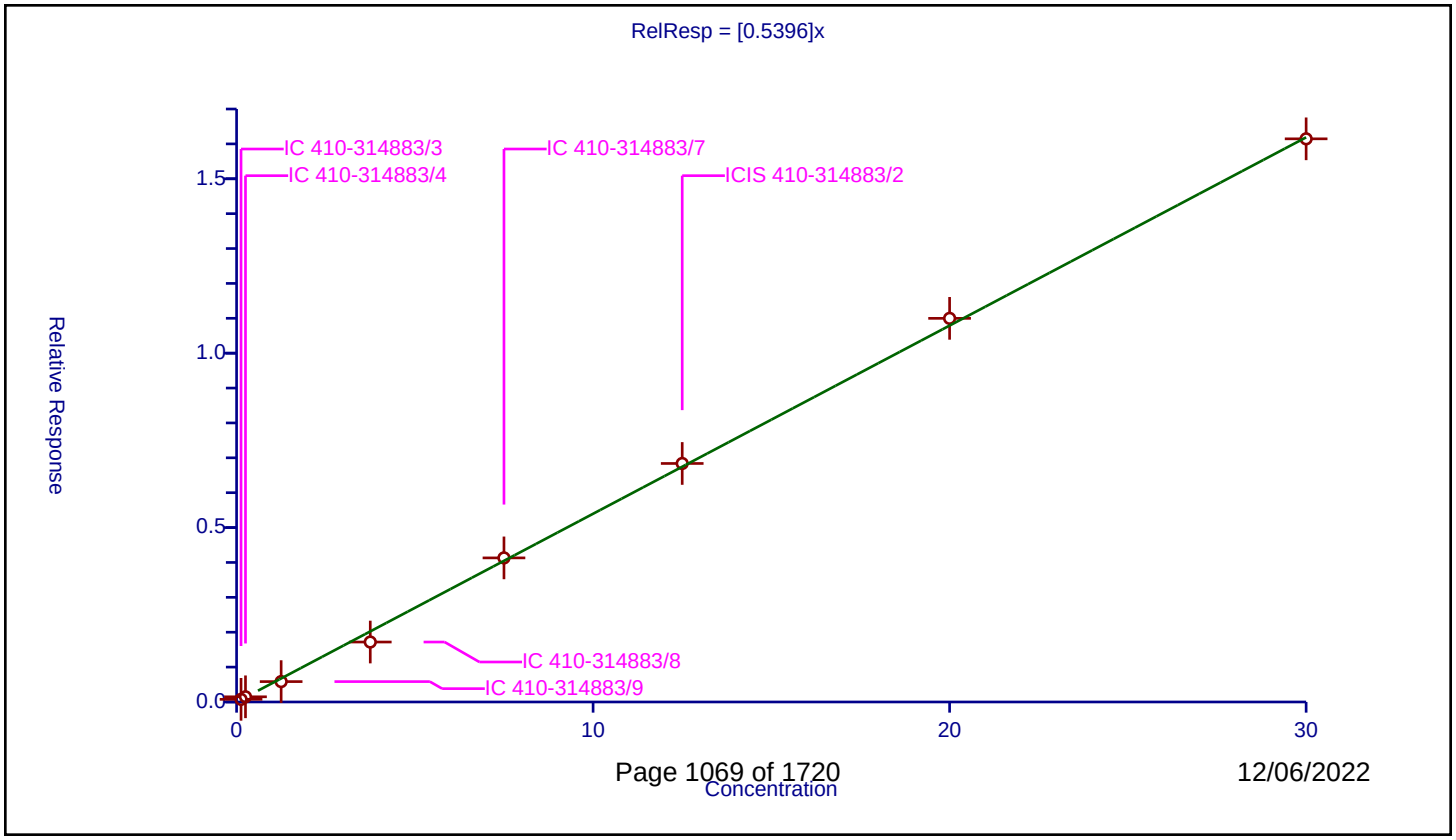
Curve Coefficients

Intercept:	0
Slope:	0.5396

Error Coefficients

Standard Error:	646000
Relative Standard Error:	9.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.076193	5.0	395445.0	0.609541	Y
2	IC 410-314883/4	0.25	0.148841	5.0	386823.0	0.595363	Y
3	IC 410-314883/9	1.25	0.584369	5.0	428633.0	0.467496	Y
4	IC 410-314883/8	3.75	1.718707	5.0	429637.0	0.458322	Y
5	IC 410-314883/7	7.5	4.131268	5.0	398771.0	0.550836	Y
6	ICIS 410-314883/2	12.5	6.837848	5.0	422146.0	0.547028	Y
7	IC 410-314883/6	20.0	10.998419	5.0	398580.0	0.549921	Y
8	IC 410-314883/5	30.0	16.145049	5.0	401747.0	0.538168	Y



Calibration / 2,4-Dichlorophenol

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

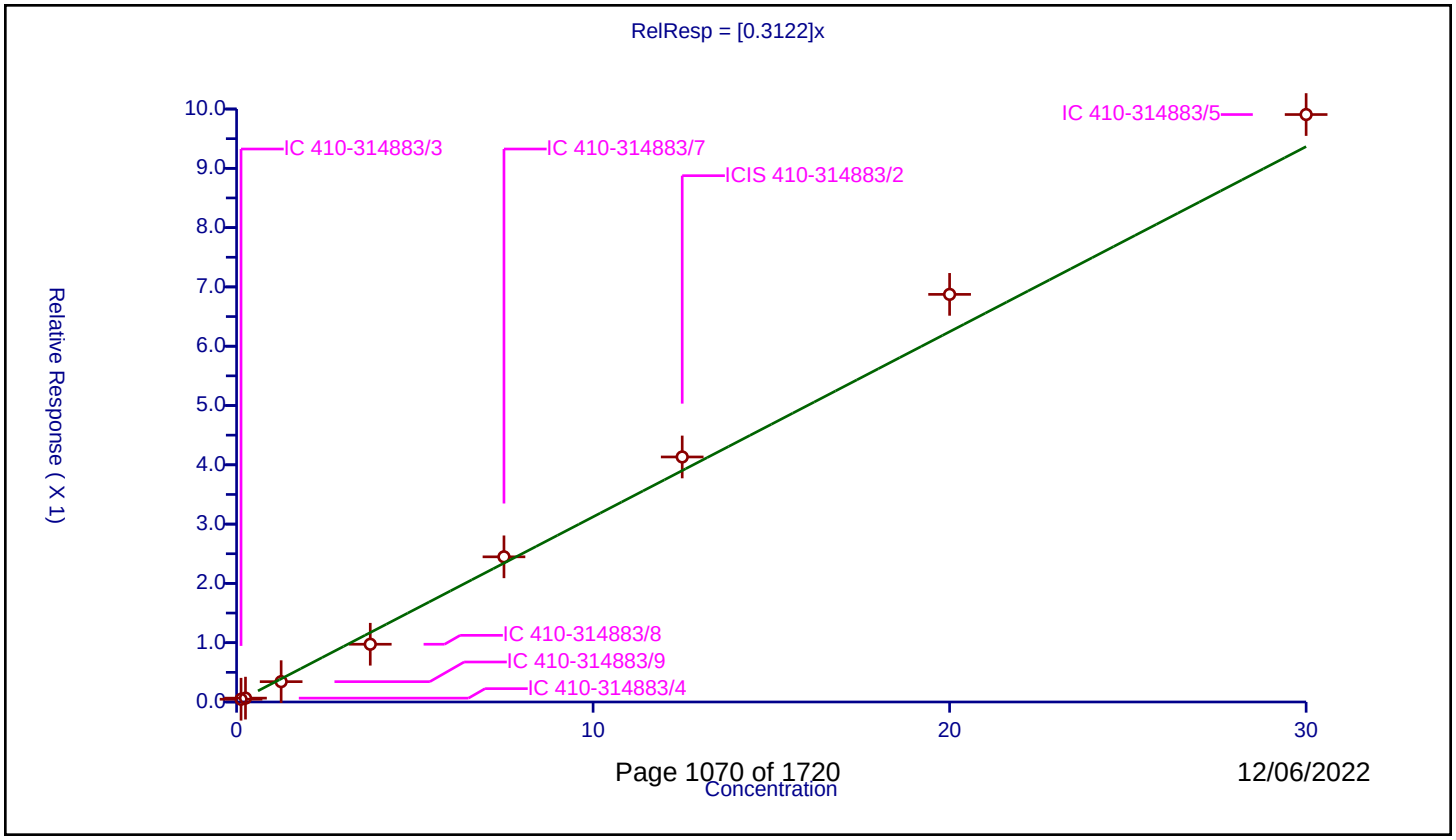
Curve Coefficients

Intercept:	0
Slope:	0.3122

Error Coefficients

Standard Error:	397000
Relative Standard Error:	13.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.046543	5.0	395445.0	0.37234	Y
2	IC 410-314883/4	0.25	0.065107	5.0	386823.0	0.260429	Y
3	IC 410-314883/9	1.25	0.342904	5.0	428633.0	0.274323	Y
4	IC 410-314883/8	3.75	0.973904	5.0	429637.0	0.259708	Y
5	IC 410-314883/7	7.5	2.447846	5.0	398771.0	0.326379	Y
6	ICIS 410-314883/2	12.5	4.132338	5.0	422146.0	0.330587	Y
7	IC 410-314883/6	20.0	6.873852	5.0	398580.0	0.343693	Y
8	IC 410-314883/5	30.0	9.906894	5.0	401747.0	0.33023	Y



Calibration / 1,2,4-Trichlorobenzene

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

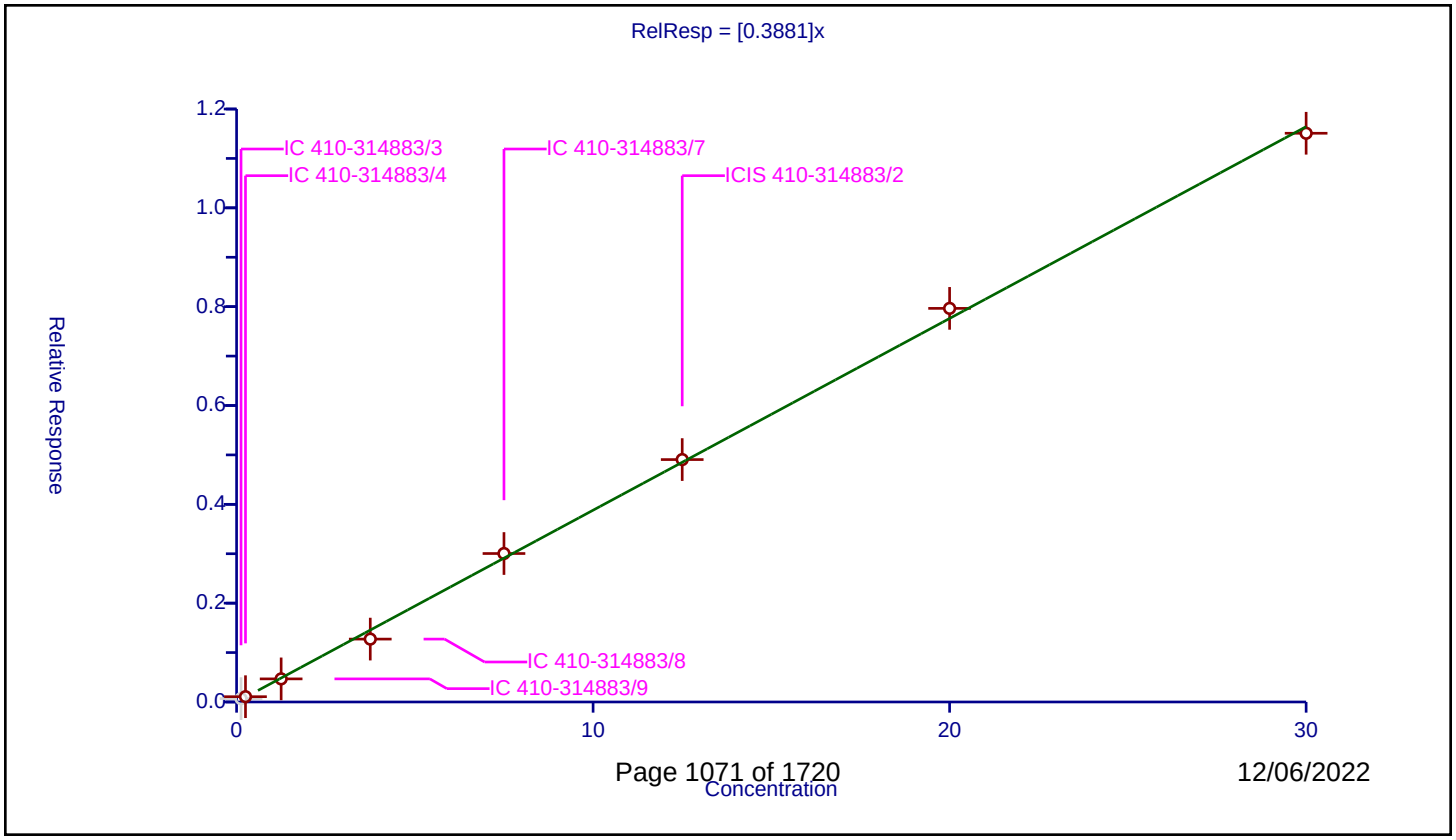
Curve Coefficients

Intercept:	0
Slope:	0.3881

Error Coefficients

Standard Error:	500000
Relative Standard Error:	7.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.068429	5.0	395445.0	0.547434	N
2	IC 410-314883/4	0.25	0.107064	5.0	386823.0	0.428258	Y
3	IC 410-314883/9	1.25	0.467475	5.0	428633.0	0.37398	Y
4	IC 410-314883/8	3.75	1.272854	5.0	429637.0	0.339428	Y
5	IC 410-314883/7	7.5	3.004318	5.0	398771.0	0.400576	Y
6	ICIS 410-314883/2	12.5	4.905566	5.0	422146.0	0.392445	Y
7	IC 410-314883/6	20.0	7.965565	5.0	398580.0	0.398278	Y
8	IC 410-314883/5	30.0	11.50947	5.0	401747.0	0.383649	Y



Calibration / Naphthalene

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

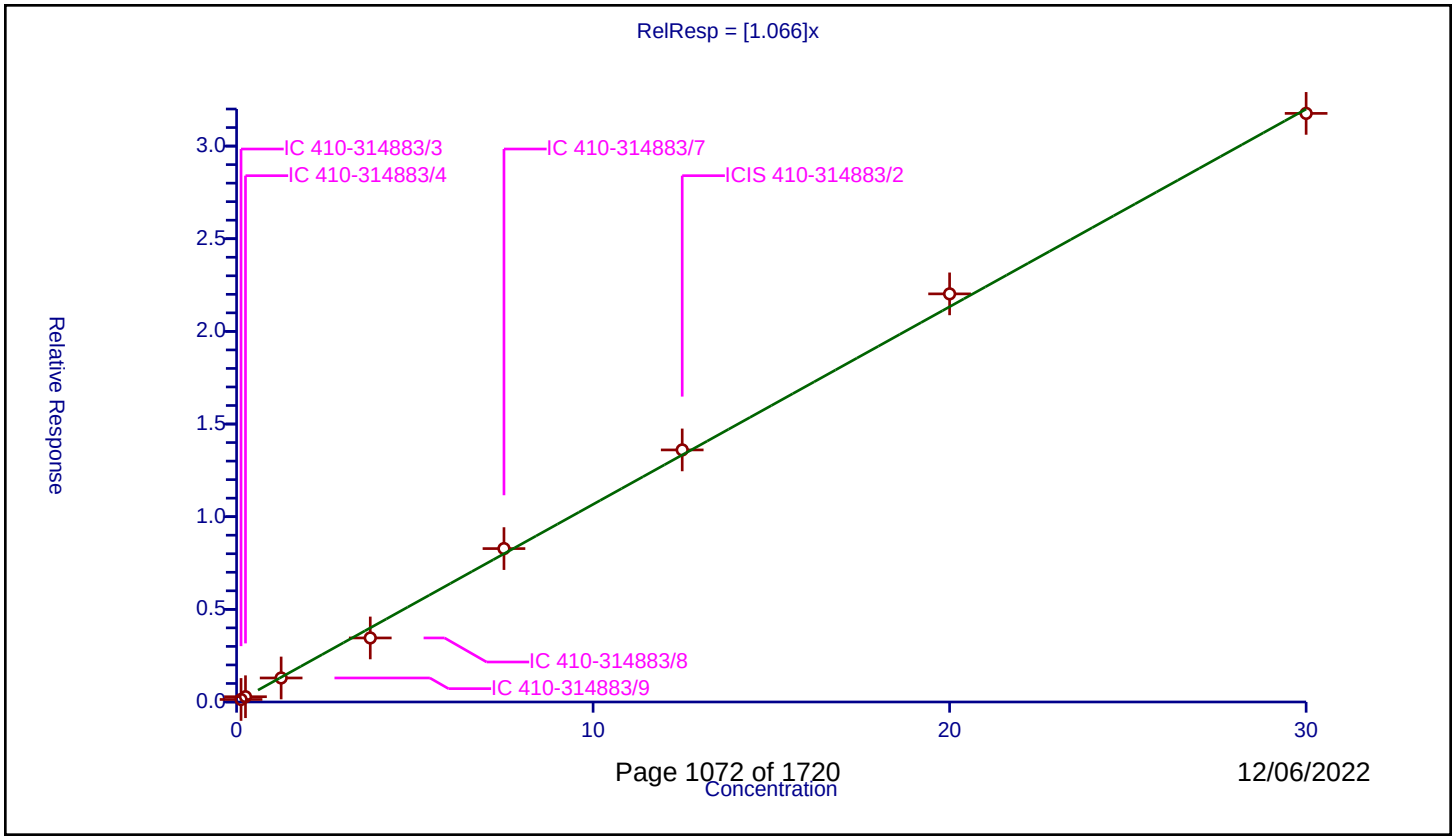
Curve Coefficients

Intercept:	0
Slope:	1.066

Error Coefficients

Standard Error:	1280000
Relative Standard Error:	6.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.135581	5.0	395445.0	1.084651	Y
2	IC 410-314883/4	0.25	0.284239	5.0	386823.0	1.136954	Y
3	IC 410-314883/9	1.25	1.295794	5.0	428633.0	1.036635	Y
4	IC 410-314883/8	3.75	3.456429	5.0	429637.0	0.921715	Y
5	IC 410-314883/7	7.5	8.277959	5.0	398771.0	1.103728	Y
6	ICIS 410-314883/2	12.5	13.603362	5.0	422146.0	1.088269	Y
7	IC 410-314883/6	20.0	22.024675	5.0	398580.0	1.101234	Y
8	IC 410-314883/5	30.0	31.763398	5.0	401747.0	1.05878	Y



Calibration / Alpha-Terpineol

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

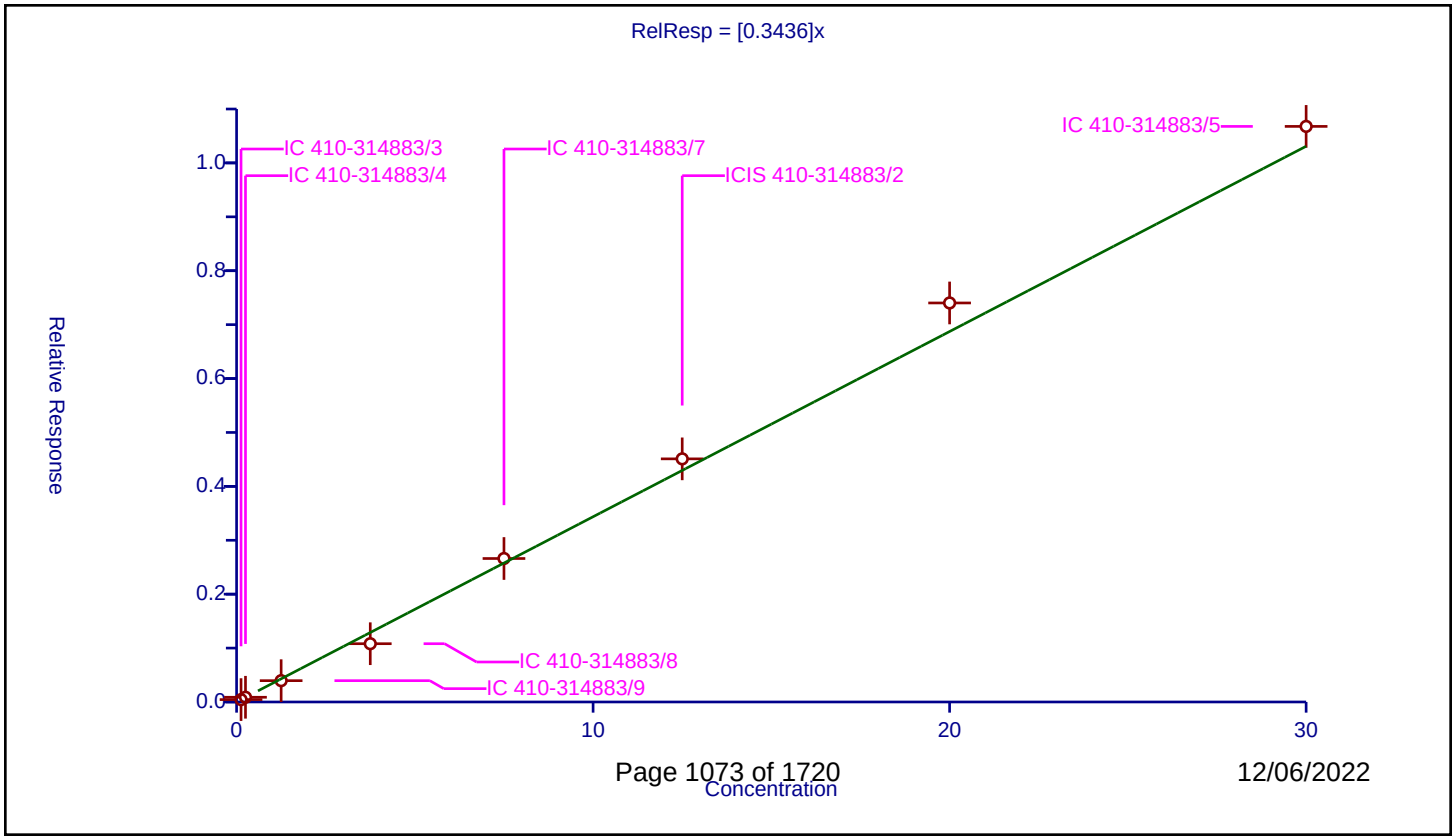
Curve Coefficients

Intercept:	0
Slope:	0.3436

Error Coefficients

Standard Error:	428000
Relative Standard Error:	7.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.044039	5.0	395445.0	0.352312	Y
2	IC 410-314883/4	0.25	0.087585	5.0	386823.0	0.350341	Y
3	IC 410-314883/9	1.25	0.395338	5.0	428633.0	0.316271	Y
4	IC 410-314883/8	3.75	1.081203	5.0	429637.0	0.288321	Y
5	IC 410-314883/7	7.5	2.661879	5.0	398771.0	0.354917	Y
6	ICIS 410-314883/2	12.5	4.510181	5.0	422146.0	0.360815	Y
7	IC 410-314883/6	20.0	7.402316	5.0	398580.0	0.370116	Y
8	IC 410-314883/5	30.0	10.67764	5.0	401747.0	0.355921	Y



Calibration / 4-Chloroaniline

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

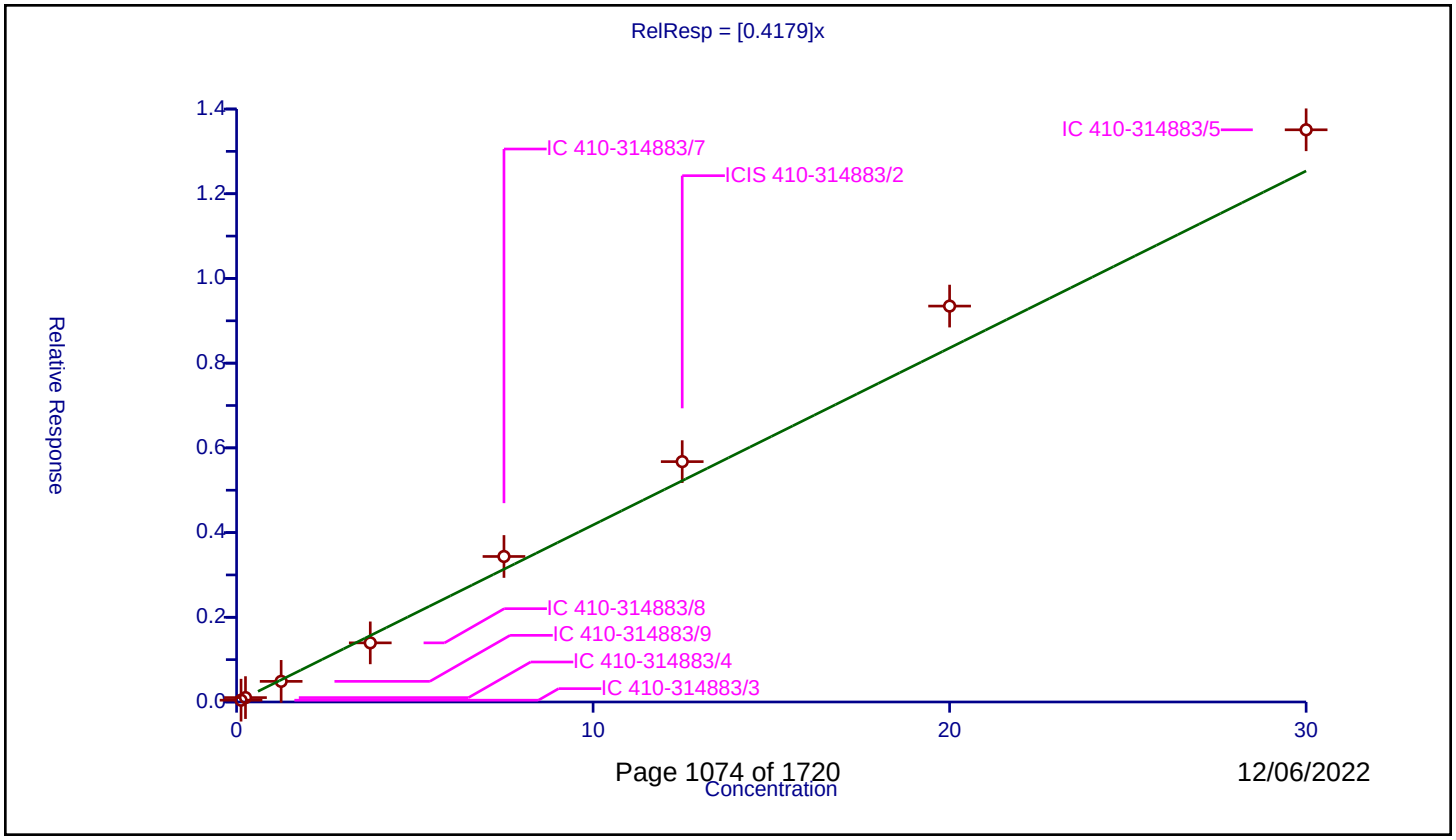
Curve Coefficients

Intercept:	0
Slope:	0.4179

Error Coefficients

Standard Error:	542000
Relative Standard Error:	11.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.042218	5.0	395445.0	0.337746	Y
2	IC 410-314883/4	0.25	0.103445	5.0	386823.0	0.413781	Y
3	IC 410-314883/9	1.25	0.487235	5.0	428633.0	0.389788	Y
4	IC 410-314883/8	3.75	1.396074	5.0	429637.0	0.372286	Y
5	IC 410-314883/7	7.5	3.435393	5.0	398771.0	0.458052	Y
6	ICIS 410-314883/2	12.5	5.674802	5.0	422146.0	0.453984	Y
7	IC 410-314883/6	20.0	9.347107	5.0	398580.0	0.467355	Y
8	IC 410-314883/5	30.0	13.509522	5.0	401747.0	0.450317	Y



Calibration / 2,6-Dichlorophenol

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

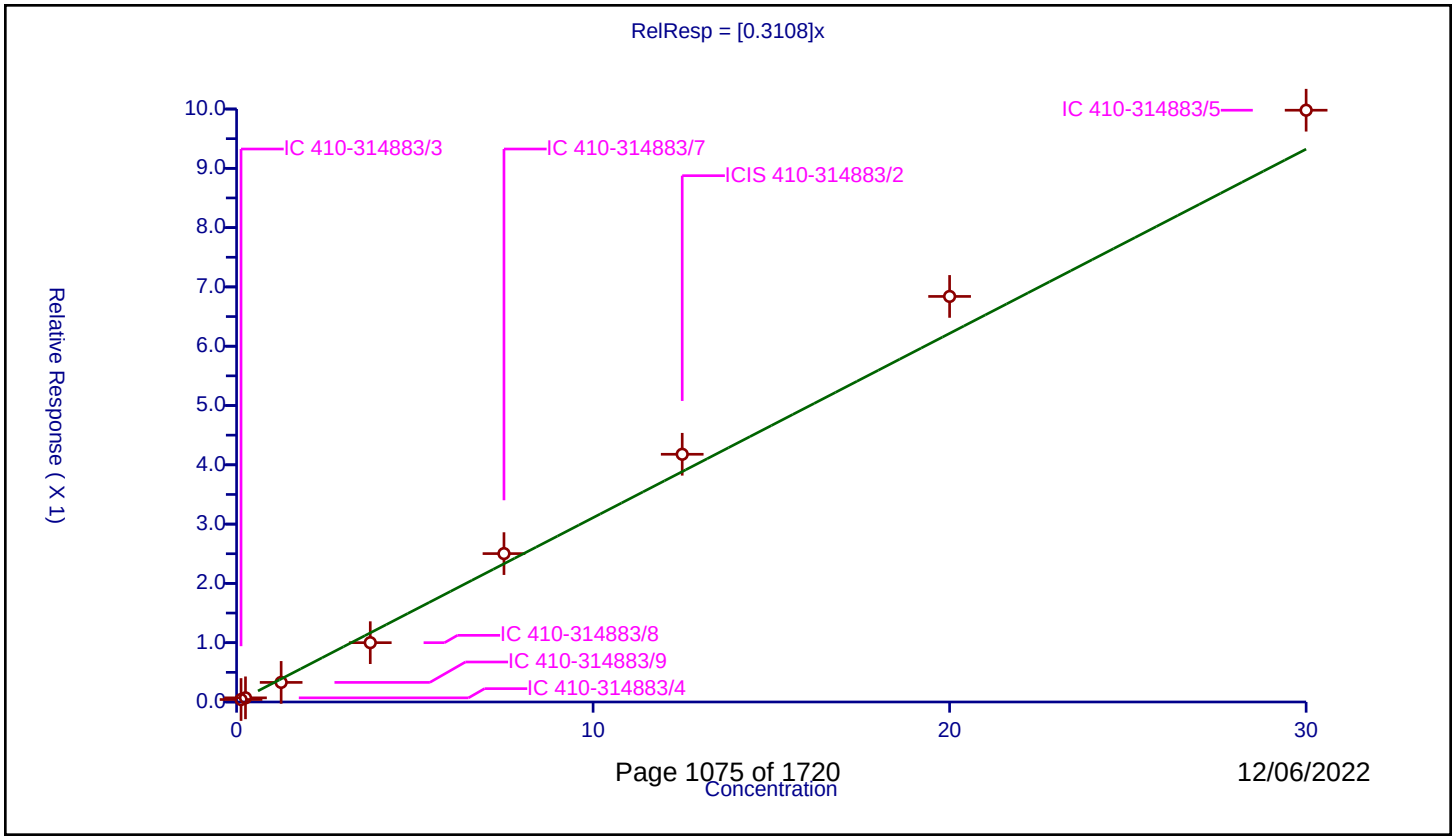
Curve Coefficients

Intercept:	0
Slope:	0.3108

Error Coefficients

Standard Error:	399000
Relative Standard Error:	10.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.041548	5.0	395445.0	0.332385	Y
2	IC 410-314883/4	0.25	0.07011	5.0	386823.0	0.280438	Y
3	IC 410-314883/9	1.25	0.330353	5.0	428633.0	0.264282	Y
4	IC 410-314883/8	3.75	1.000356	5.0	429637.0	0.266762	Y
5	IC 410-314883/7	7.5	2.502464	5.0	398771.0	0.333662	Y
6	ICIS 410-314883/2	12.5	4.177713	5.0	422146.0	0.334217	Y
7	IC 410-314883/6	20.0	6.839217	5.0	398580.0	0.341961	Y
8	IC 410-314883/5	30.0	9.979602	5.0	401747.0	0.332653	Y



Calibration / Hexachloropropene

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

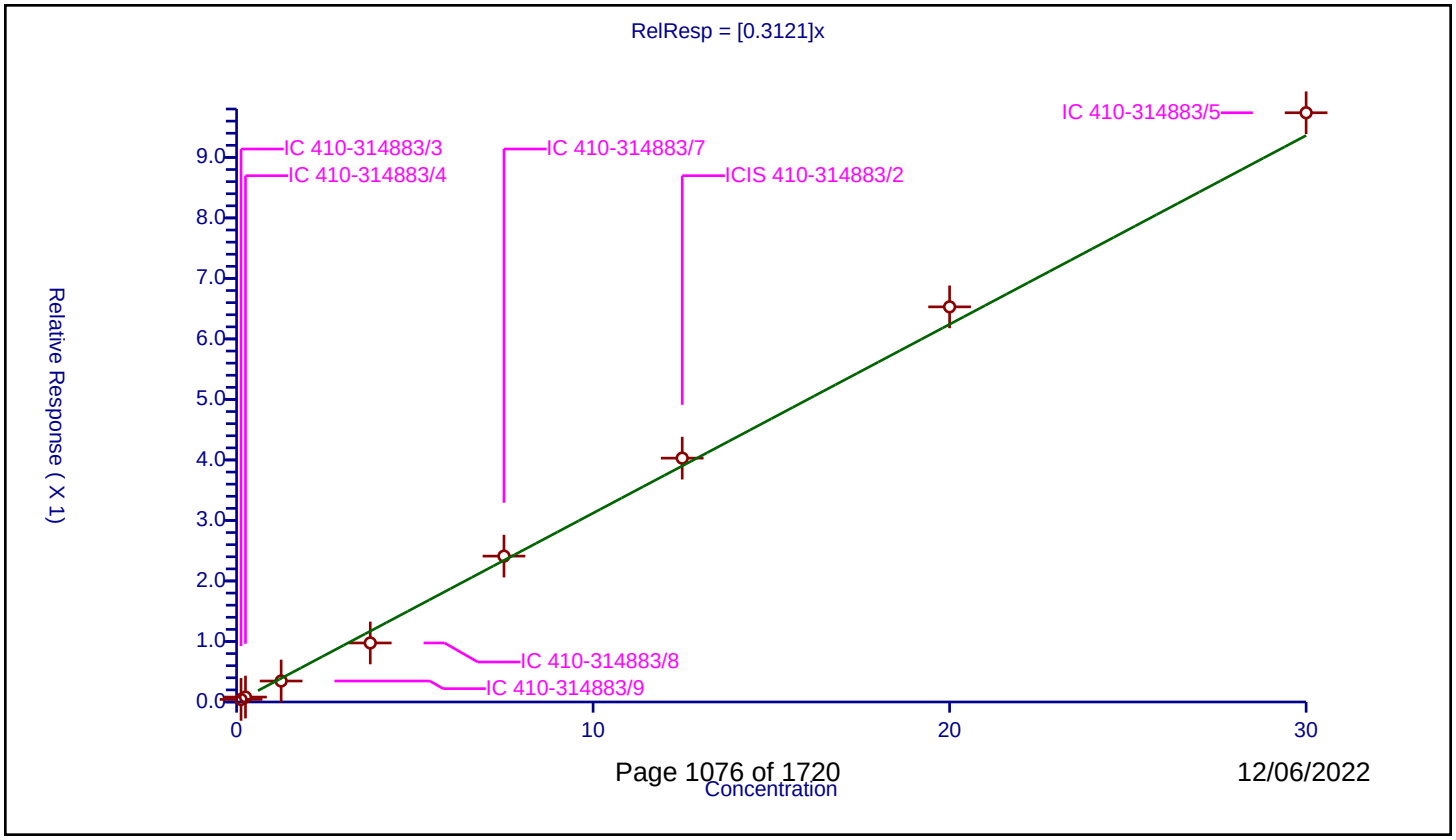
Curve Coefficients

Intercept:	0
Slope:	0.3121

Error Coefficients

Standard Error:	386000
Relative Standard Error:	8.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.042383	5.0	395445.0	0.339061	Y
2	IC 410-314883/4	0.25	0.081342	5.0	386823.0	0.325368	Y
3	IC 410-314883/9	1.25	0.346509	5.0	428633.0	0.277207	Y
4	IC 410-314883/8	3.75	0.975626	5.0	429637.0	0.260167	Y
5	IC 410-314883/7	7.5	2.410782	5.0	398771.0	0.321438	Y
6	ICIS 410-314883/2	12.5	4.030039	5.0	422146.0	0.322403	Y
7	IC 410-314883/6	20.0	6.530471	5.0	398580.0	0.326524	Y
8	IC 410-314883/5	30.0	9.738492	5.0	401747.0	0.324616	Y



Calibration / Hexachlorobutadiene

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

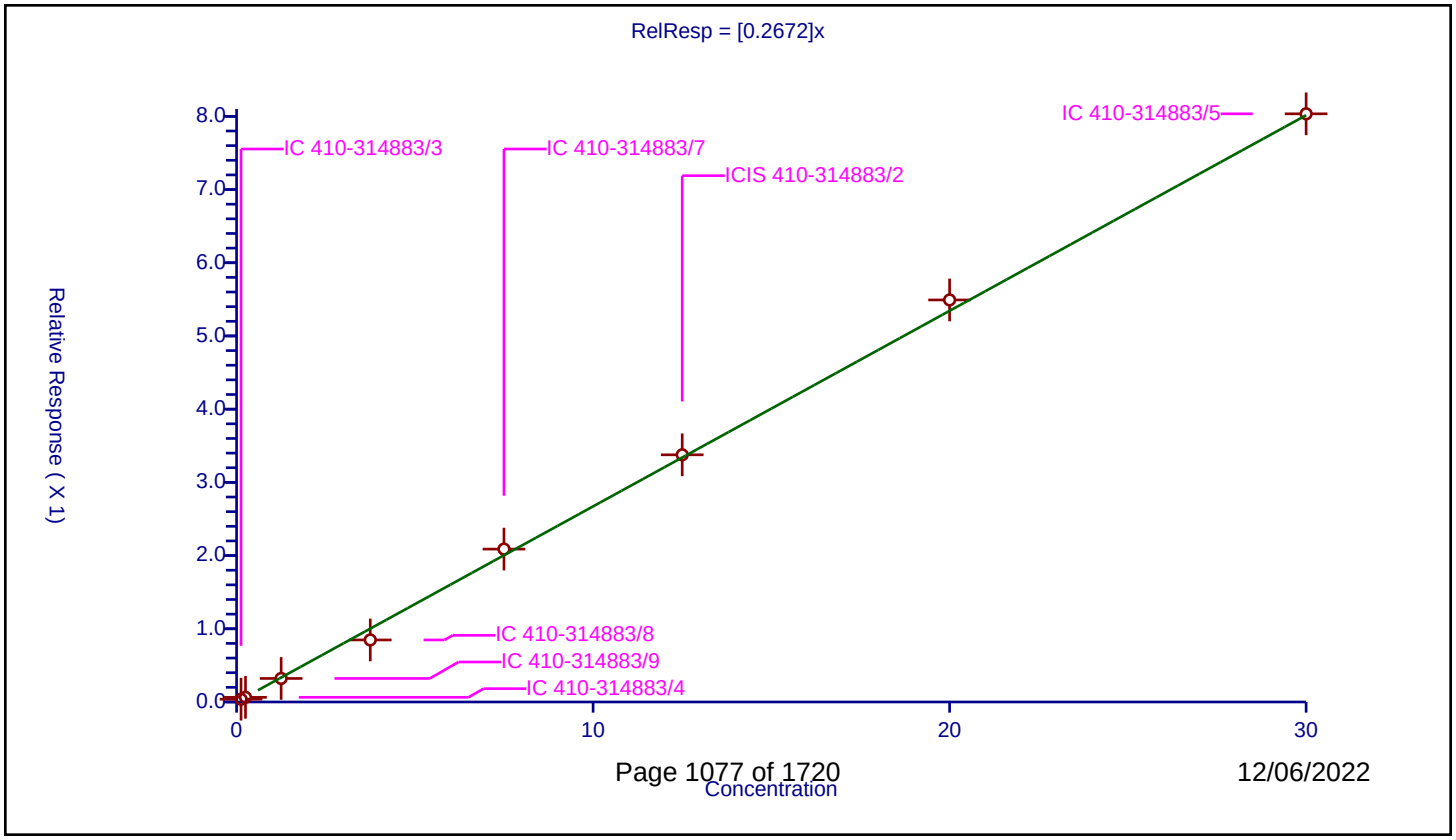
Curve Coefficients

Intercept:	0
Slope:	0.2672

Error Coefficients

Standard Error:	321000
Relative Standard Error:	8.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.038476	5.0	395445.0	0.307805	Y
2	IC 410-314883/4	0.25	0.063802	5.0	386823.0	0.255207	Y
3	IC 410-314883/9	1.25	0.321615	5.0	428633.0	0.257292	Y
4	IC 410-314883/8	3.75	0.847564	5.0	429637.0	0.226017	Y
5	IC 410-314883/7	7.5	2.088542	5.0	398771.0	0.278472	Y
6	ICIS 410-314883/2	12.5	3.376486	5.0	422146.0	0.270119	Y
7	IC 410-314883/6	20.0	5.491884	5.0	398580.0	0.274594	Y
8	IC 410-314883/5	30.0	8.034484	5.0	401747.0	0.267816	Y



Calibration / Quinoline

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

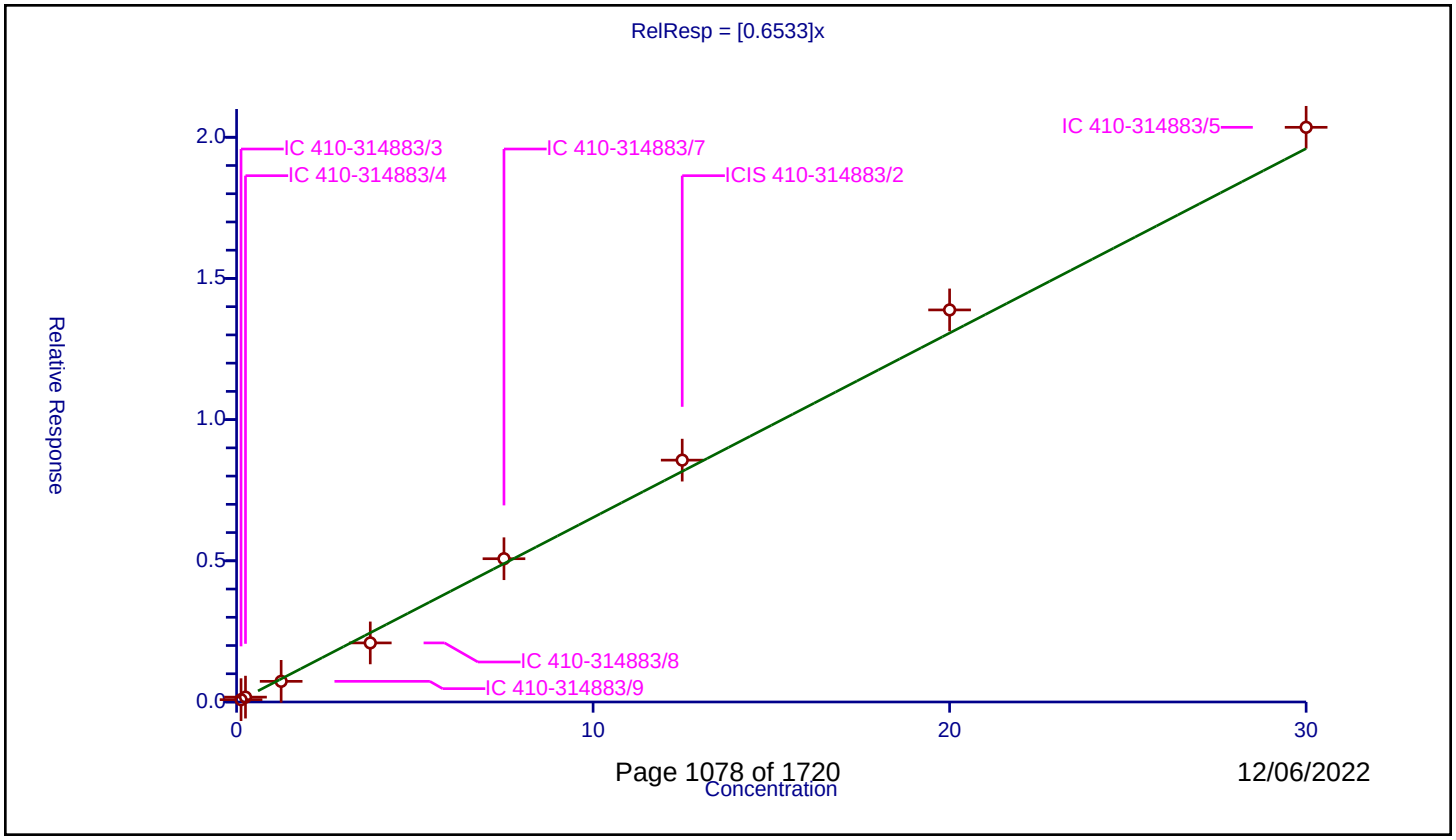
Curve Coefficients

Intercept:	0
Slope:	0.6533

Error Coefficients

Standard Error:	813000
Relative Standard Error:	7.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.08259	5.0	395445.0	0.660724	Y
2	IC 410-314883/4	0.25	0.171991	5.0	386823.0	0.687963	Y
3	IC 410-314883/9	1.25	0.731663	5.0	428633.0	0.585331	Y
4	IC 410-314883/8	3.75	2.092732	5.0	429637.0	0.558062	Y
5	IC 410-314883/7	7.5	5.073288	5.0	398771.0	0.676438	Y
6	ICIS 410-314883/2	12.5	8.565473	5.0	422146.0	0.685238	Y
7	IC 410-314883/6	20.0	13.884502	5.0	398580.0	0.694225	Y
8	IC 410-314883/5	30.0	20.352199	5.0	401747.0	0.678407	Y



12/06/2022

Calibration / Caprolactam

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

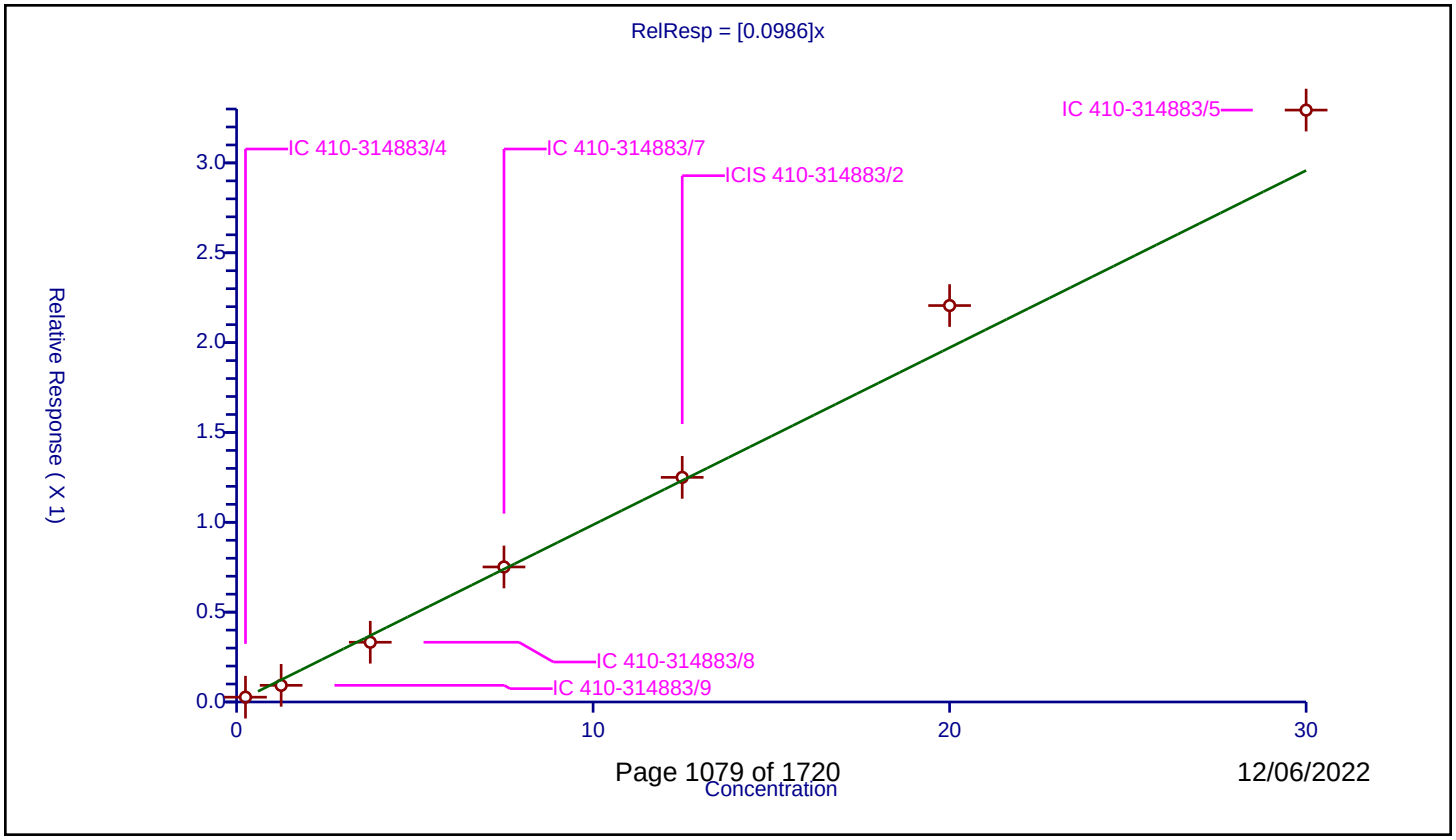
Curve Coefficients

Intercept:	0
Slope:	0.0986

Error Coefficients

Standard Error:	139000
Relative Standard Error:	13.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/4	0.25	0.026769	5.0	386823.0	0.107077	Y
2	IC 410-314883/9	1.25	0.092632	5.0	428633.0	0.074105	Y
3	IC 410-314883/8	3.75	0.332571	5.0	429637.0	0.088686	Y
4	IC 410-314883/7	7.5	0.751471	5.0	398771.0	0.100196	Y
5	ICIS 410-314883/2	12.5	1.250065	5.0	422146.0	0.100005	Y
6	IC 410-314883/6	20.0	2.206257	5.0	398580.0	0.110313	Y
7	IC 410-314883/5	30.0	3.293989	5.0	401747.0	0.1098	Y



Calibration / N-Nitrosodi-n-butylamine

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

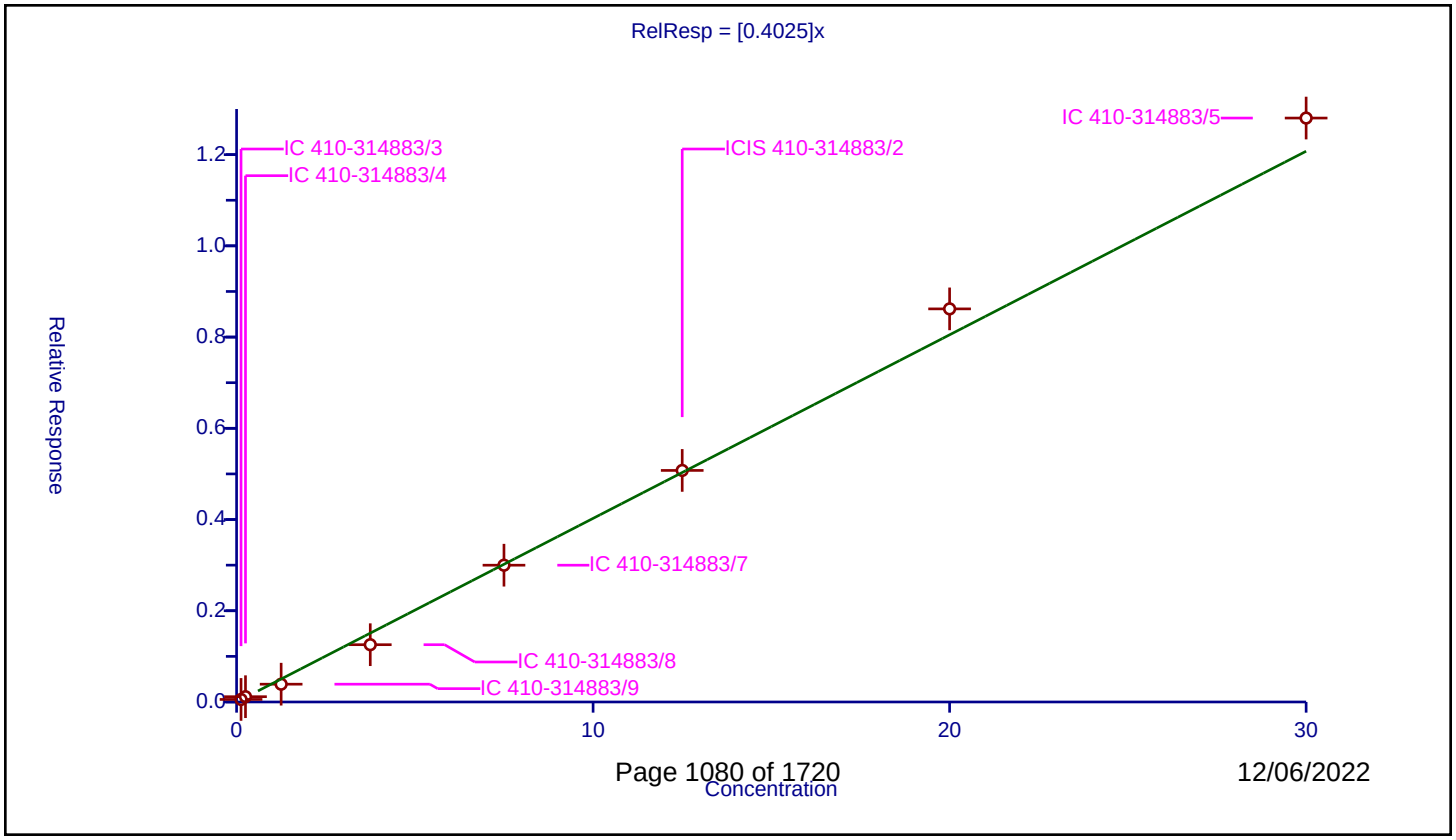
Curve Coefficients

Intercept:	0
Slope:	0.4025

Error Coefficients

Standard Error:	505000
Relative Standard Error:	13.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.055735	5.0	395445.0	0.445877	Y
2	IC 410-314883/4	0.25	0.115841	5.0	386823.0	0.463364	Y
3	IC 410-314883/9	1.25	0.390346	5.0	428633.0	0.312276	Y
4	IC 410-314883/8	3.75	1.255816	5.0	429637.0	0.334884	Y
5	IC 410-314883/7	7.5	2.998551	5.0	398771.0	0.399807	Y
6	ICIS 410-314883/2	12.5	5.076384	5.0	422146.0	0.406111	Y
7	IC 410-314883/6	20.0	8.618245	5.0	398580.0	0.430912	Y
8	IC 410-314883/5	30.0	12.801689	5.0	401747.0	0.426723	Y



Calibration / p-Phenylene diamine

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

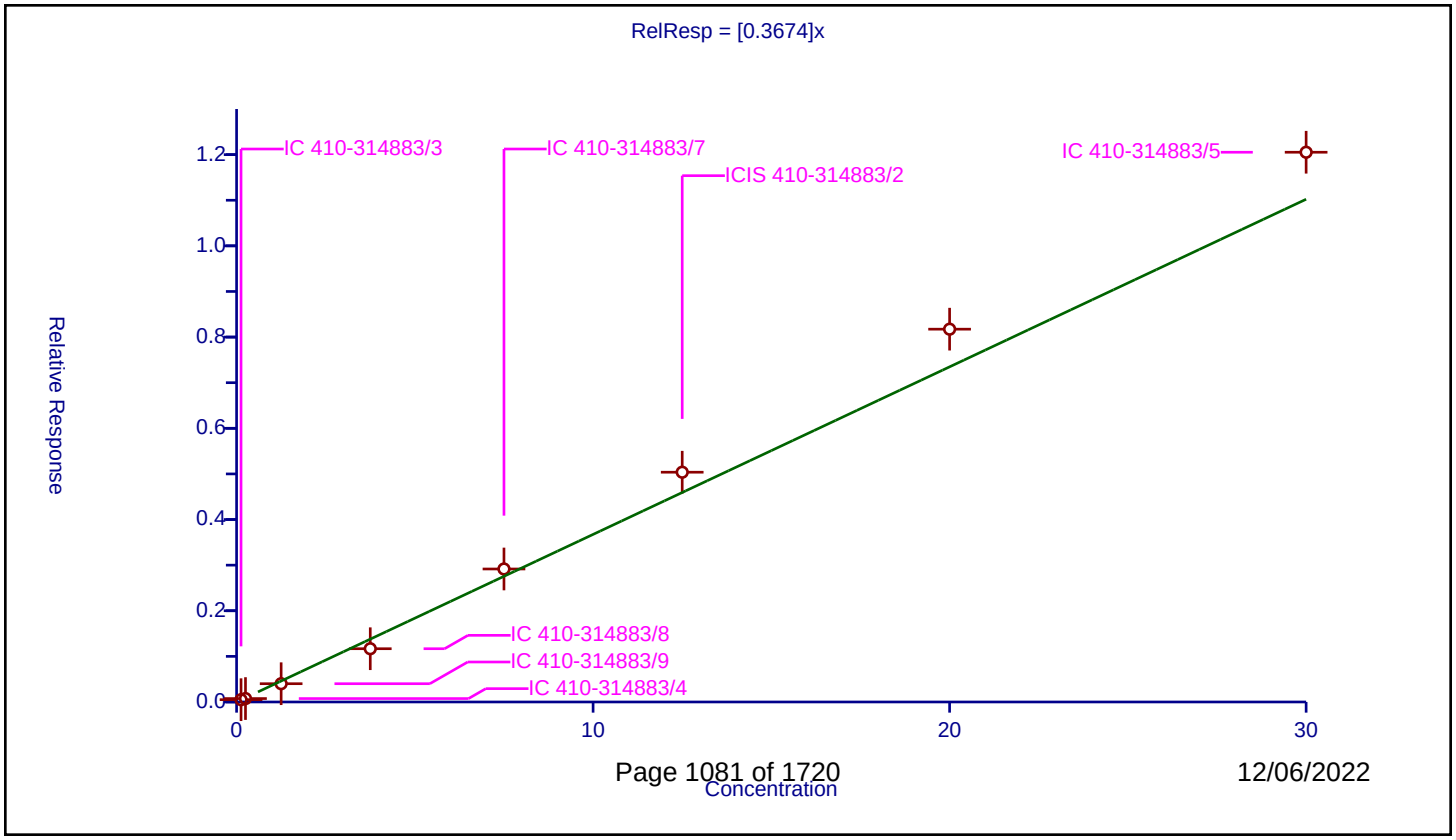
Curve Coefficients

Intercept:	0
Slope:	0.3674

Error Coefficients

Standard Error:	479000
Relative Standard Error:	13.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.050702	5.0	395445.0	0.405619	Y
2	IC 410-314883/4	0.25	0.07484	5.0	386823.0	0.299362	Y
3	IC 410-314883/9	1.25	0.400739	5.0	428633.0	0.320591	Y
4	IC 410-314883/8	3.75	1.167742	5.0	429637.0	0.311398	Y
5	IC 410-314883/7	7.5	2.915884	5.0	398771.0	0.388785	Y
6	ICIS 410-314883/2	12.5	5.037155	5.0	422146.0	0.402972	Y
7	IC 410-314883/6	20.0	8.173315	5.0	398580.0	0.408666	Y
8	IC 410-314883/5	30.0	12.052386	5.0	401747.0	0.401746	Y



Calibration / 4-Chloro-3-methylphenol

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

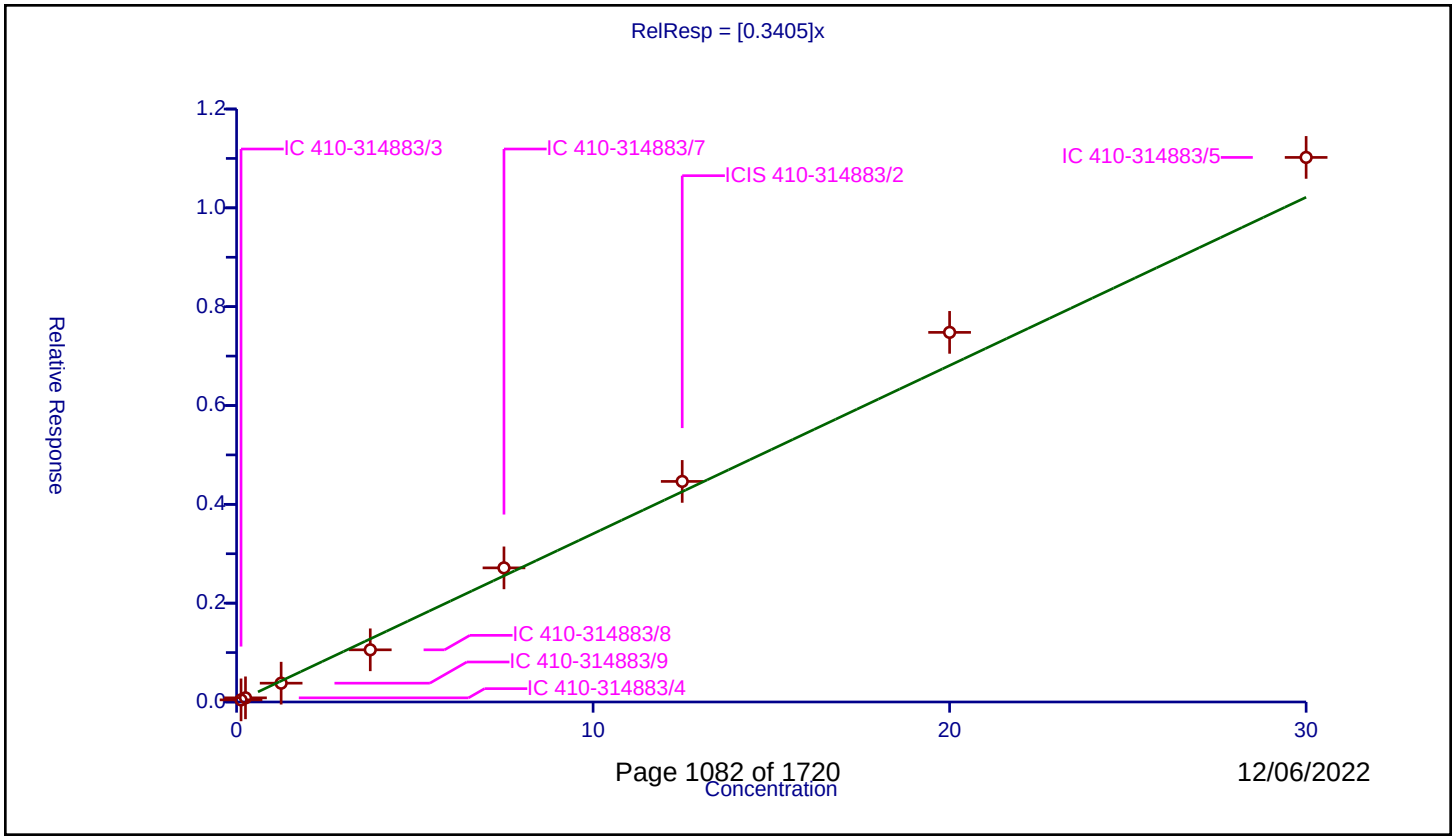
Curve Coefficients

Intercept:	0
Slope:	0.3405

Error Coefficients

Standard Error:	437000
Relative Standard Error:	9.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.042775	5.0	395445.0	0.342197	Y
2	IC 410-314883/4	0.25	0.083824	5.0	386823.0	0.335295	Y
3	IC 410-314883/9	1.25	0.380594	5.0	428633.0	0.304475	Y
4	IC 410-314883/8	3.75	1.056031	5.0	429637.0	0.281608	Y
5	IC 410-314883/7	7.5	2.714114	5.0	398771.0	0.361882	Y
6	ICIS 410-314883/2	12.5	4.463503	5.0	422146.0	0.35708	Y
7	IC 410-314883/6	20.0	7.479778	5.0	398580.0	0.373989	Y
8	IC 410-314883/5	30.0	11.020319	5.0	401747.0	0.367344	Y



Calibration / Safrole, Total

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

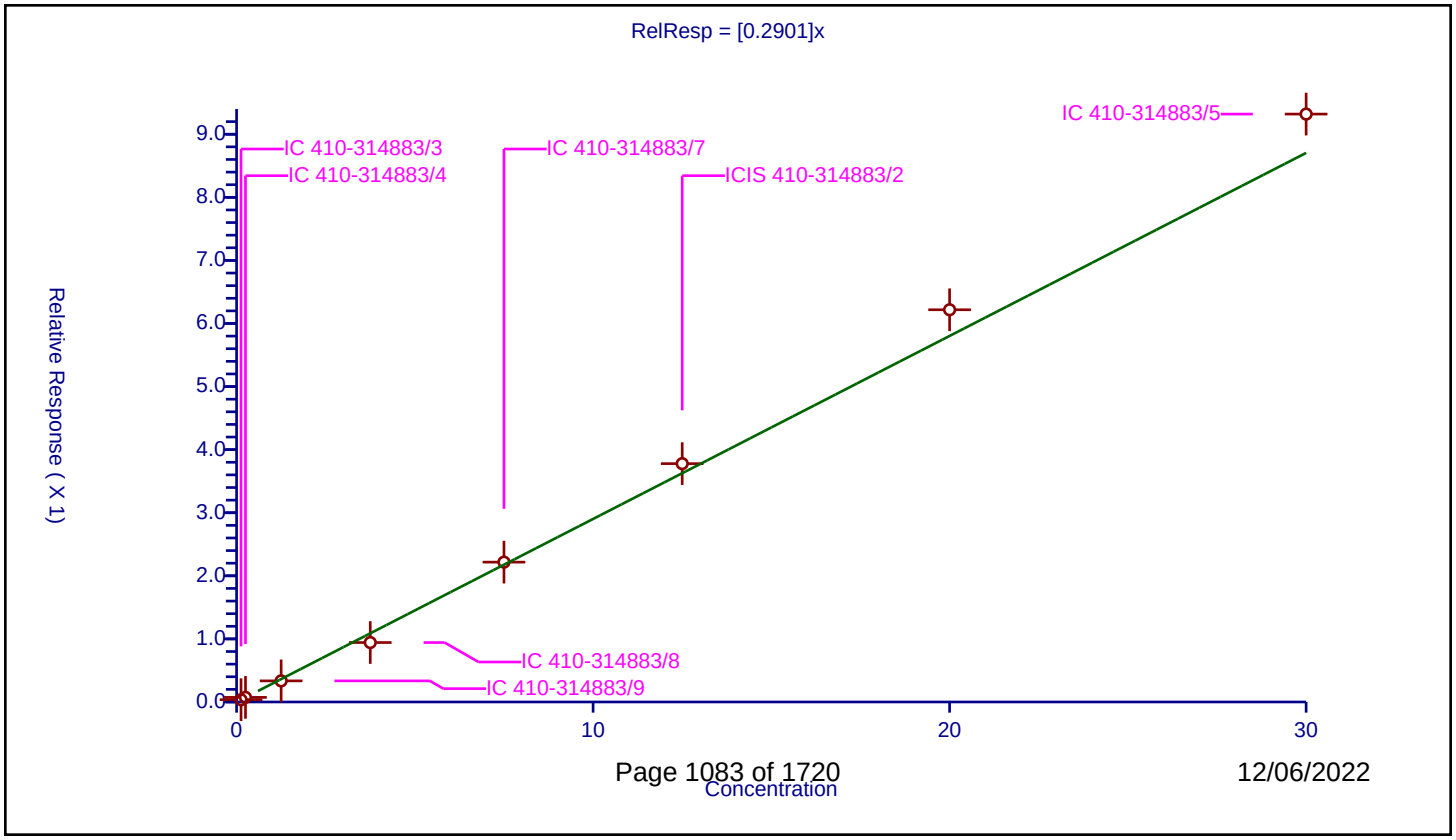
Curve Coefficients

Intercept:	0
Slope:	0.2901

Error Coefficients

Standard Error:	368000
Relative Standard Error:	7.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.036415	5.0	395445.0	0.291317	Y
2	IC 410-314883/4	0.25	0.072889	5.0	386823.0	0.291555	Y
3	IC 410-314883/9	1.25	0.33447	5.0	428633.0	0.267576	Y
4	IC 410-314883/8	3.75	0.942261	5.0	429637.0	0.251269	Y
5	IC 410-314883/7	7.5	2.216886	5.0	398771.0	0.295585	Y
6	ICIS 410-314883/2	12.5	3.778385	5.0	422146.0	0.302271	Y
7	IC 410-314883/6	20.0	6.217648	5.0	398580.0	0.310882	Y
8	IC 410-314883/5	30.0	9.319646	5.0	401747.0	0.310655	Y



Calibration / 2-Methylnaphthalene

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

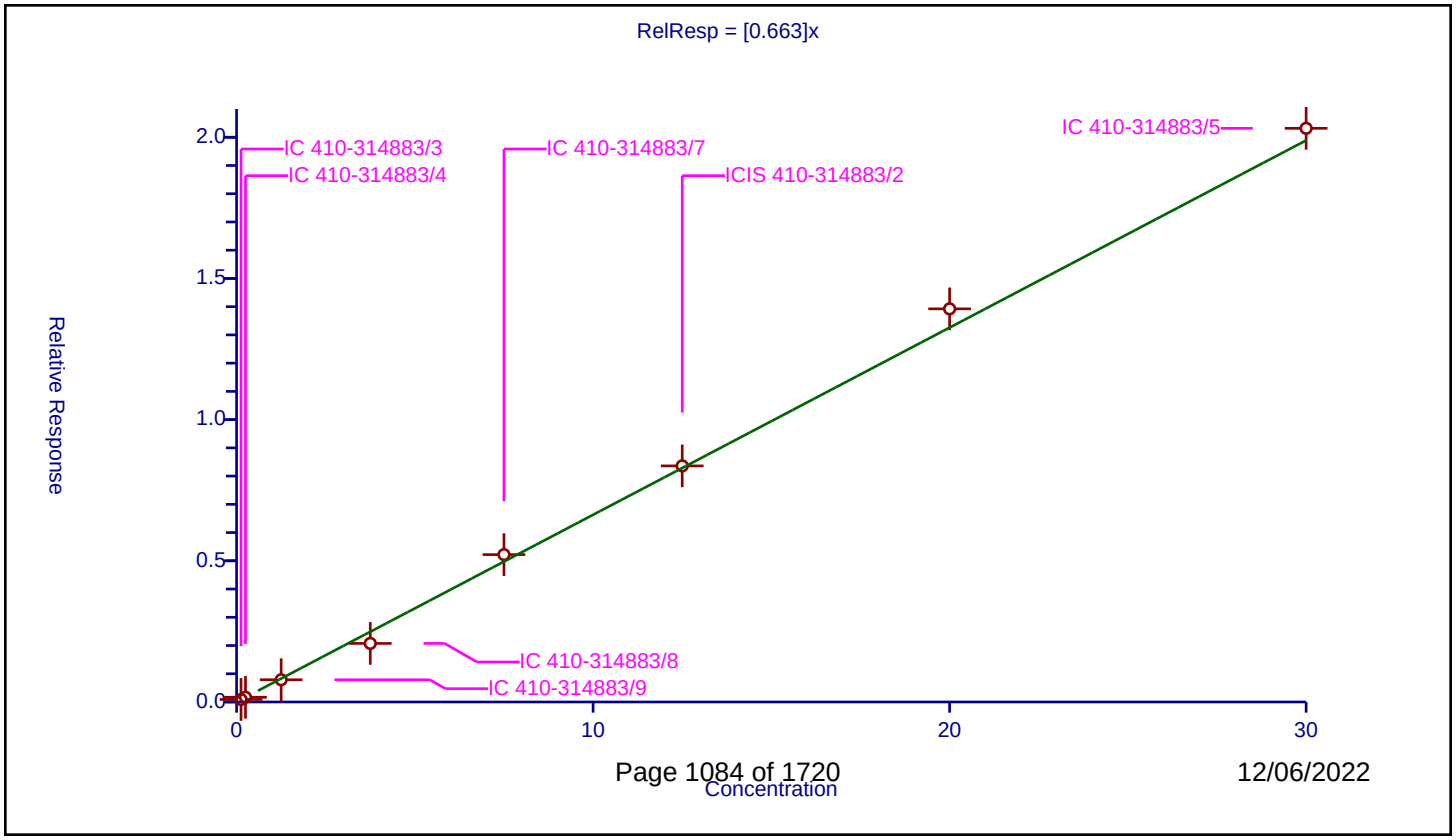
Curve Coefficients

Intercept:	0
Slope:	0.663

Error Coefficients

Standard Error:	811000
Relative Standard Error:	7.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.088773	5.0	395445.0	0.710187	Y
2	IC 410-314883/4	0.25	0.168074	5.0	386823.0	0.672297	Y
3	IC 410-314883/9	1.25	0.787352	5.0	428633.0	0.629882	Y
4	IC 410-314883/8	3.75	2.074391	5.0	429637.0	0.553171	Y
5	IC 410-314883/7	7.5	5.219048	5.0	398771.0	0.695873	Y
6	ICIS 410-314883/2	12.5	8.36142	5.0	422146.0	0.668914	Y
7	IC 410-314883/6	20.0	13.923089	5.0	398580.0	0.696154	Y
8	IC 410-314883/5	30.0	20.316692	5.0	401747.0	0.677223	Y



Calibration / 1-Methylnaphthalene

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

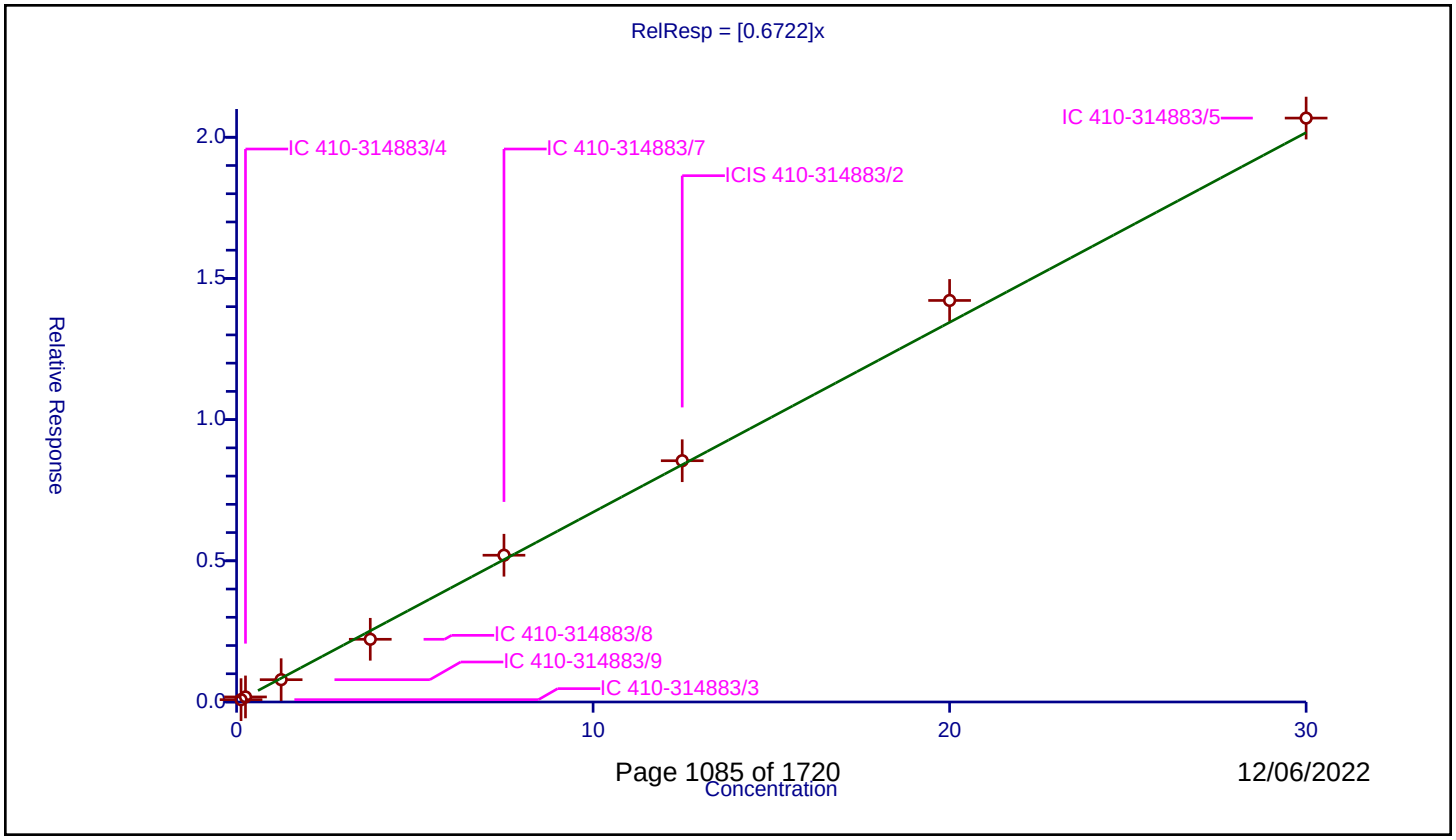
Curve Coefficients

Intercept:	0
Slope:	0.6722

Error Coefficients

Standard Error:	826000
Relative Standard Error:	6.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.082755	5.0	395445.0	0.662039	Y
2	IC 410-314883/4	0.25	0.178518	5.0	386823.0	0.714073	Y
3	IC 410-314883/9	1.25	0.790315	5.0	428633.0	0.632252	Y
4	IC 410-314883/8	3.75	2.221038	5.0	429637.0	0.592277	Y
5	IC 410-314883/7	7.5	5.197783	5.0	398771.0	0.693038	Y
6	ICIS 410-314883/2	12.5	8.544852	5.0	422146.0	0.683588	Y
7	IC 410-314883/6	20.0	14.220131	5.0	398580.0	0.711007	Y
8	IC 410-314883/5	30.0	20.678785	5.0	401747.0	0.689293	Y



Calibration / Hexachlorocyclopentadiene

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

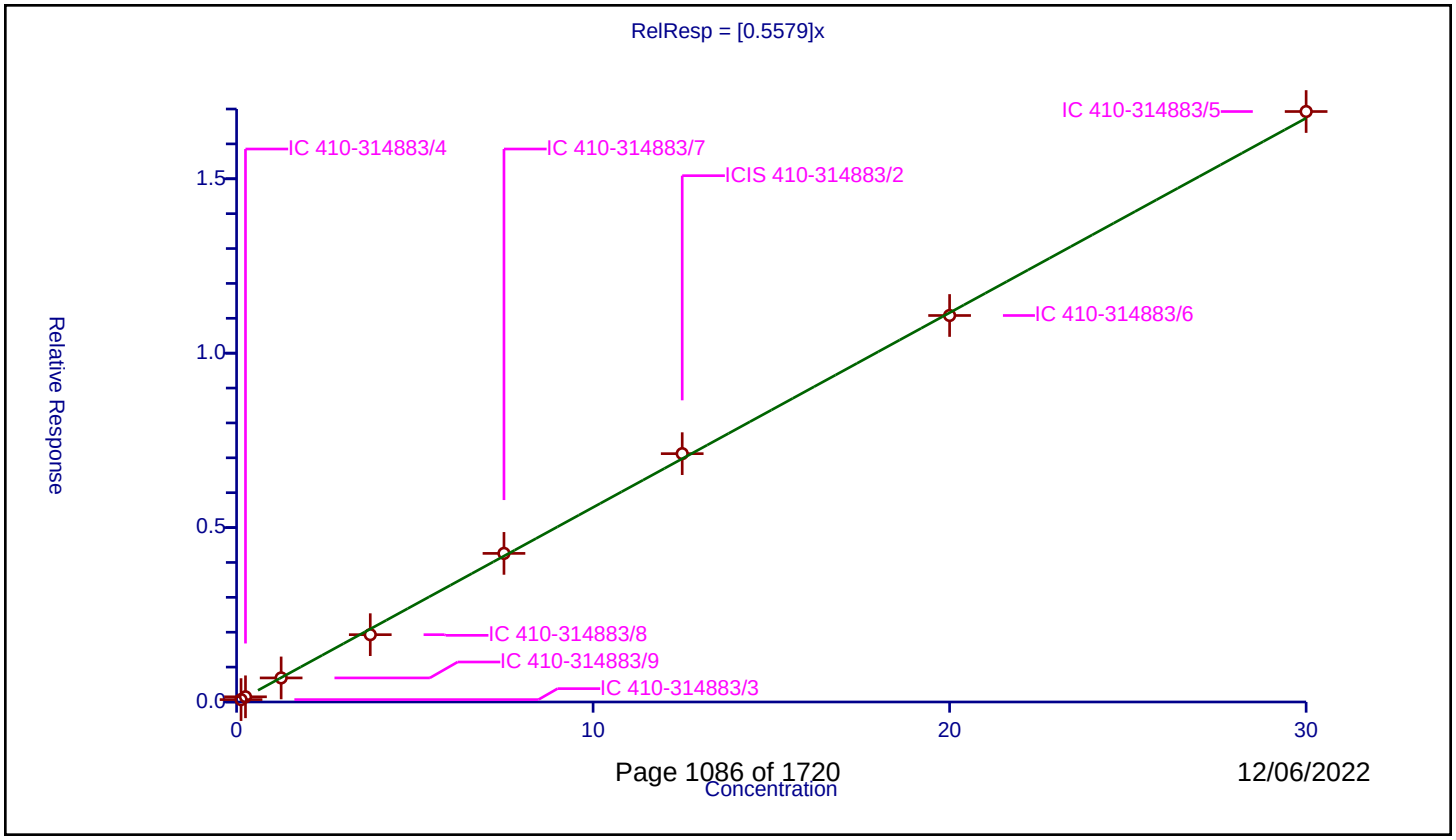
Curve Coefficients

Intercept:	0
Slope:	0.5579

Error Coefficients

Standard Error:	423000
Relative Standard Error:	4.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.068479	5.0	243431.0	0.547835	Y
2	IC 410-314883/4	0.25	0.14833	5.0	235118.0	0.593319	Y
3	IC 410-314883/9	1.25	0.689855	5.0	254916.0	0.551884	Y
4	IC 410-314883/8	3.75	1.929835	5.0	244552.0	0.514623	Y
5	IC 410-314883/7	7.5	4.260356	5.0	249681.0	0.568047	Y
6	ICIS 410-314883/2	12.5	7.119612	5.0	260175.0	0.569569	Y
7	IC 410-314883/6	20.0	11.080772	5.0	262456.0	0.554039	Y
8	IC 410-314883/5	30.0	16.928423	5.0	251060.0	0.564281	Y



Calibration / 1,2,4,5-Tetrachlorobenzene

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

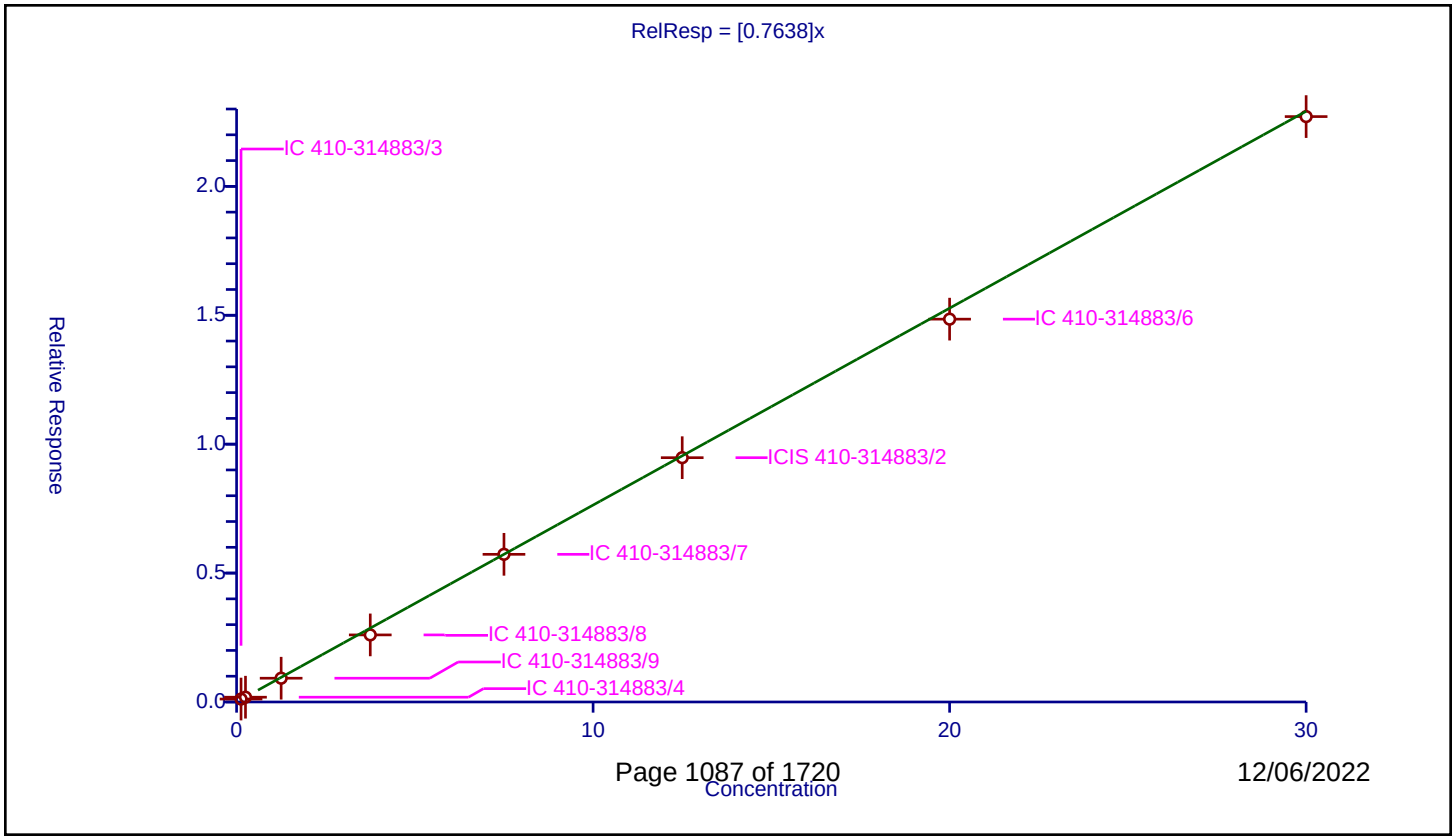
Curve Coefficients

Intercept:	0
Slope:	0.7638

Error Coefficients

Standard Error:	567000
Relative Standard Error:	8.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.114509	5.0	243431.0	0.916071	Y
2	IC 410-314883/4	0.25	0.185439	5.0	235118.0	0.741755	Y
3	IC 410-314883/9	1.25	0.921853	5.0	254916.0	0.737482	Y
4	IC 410-314883/8	3.75	2.601492	5.0	244552.0	0.693731	Y
5	IC 410-314883/7	7.5	5.727949	5.0	249681.0	0.763727	Y
6	ICIS 410-314883/2	12.5	9.475949	5.0	260175.0	0.758076	Y
7	IC 410-314883/6	20.0	14.849594	5.0	262456.0	0.74248	Y
8	IC 410-314883/5	30.0	22.705987	5.0	251060.0	0.756866	Y



Calibration / Isosafrole Peak 1

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

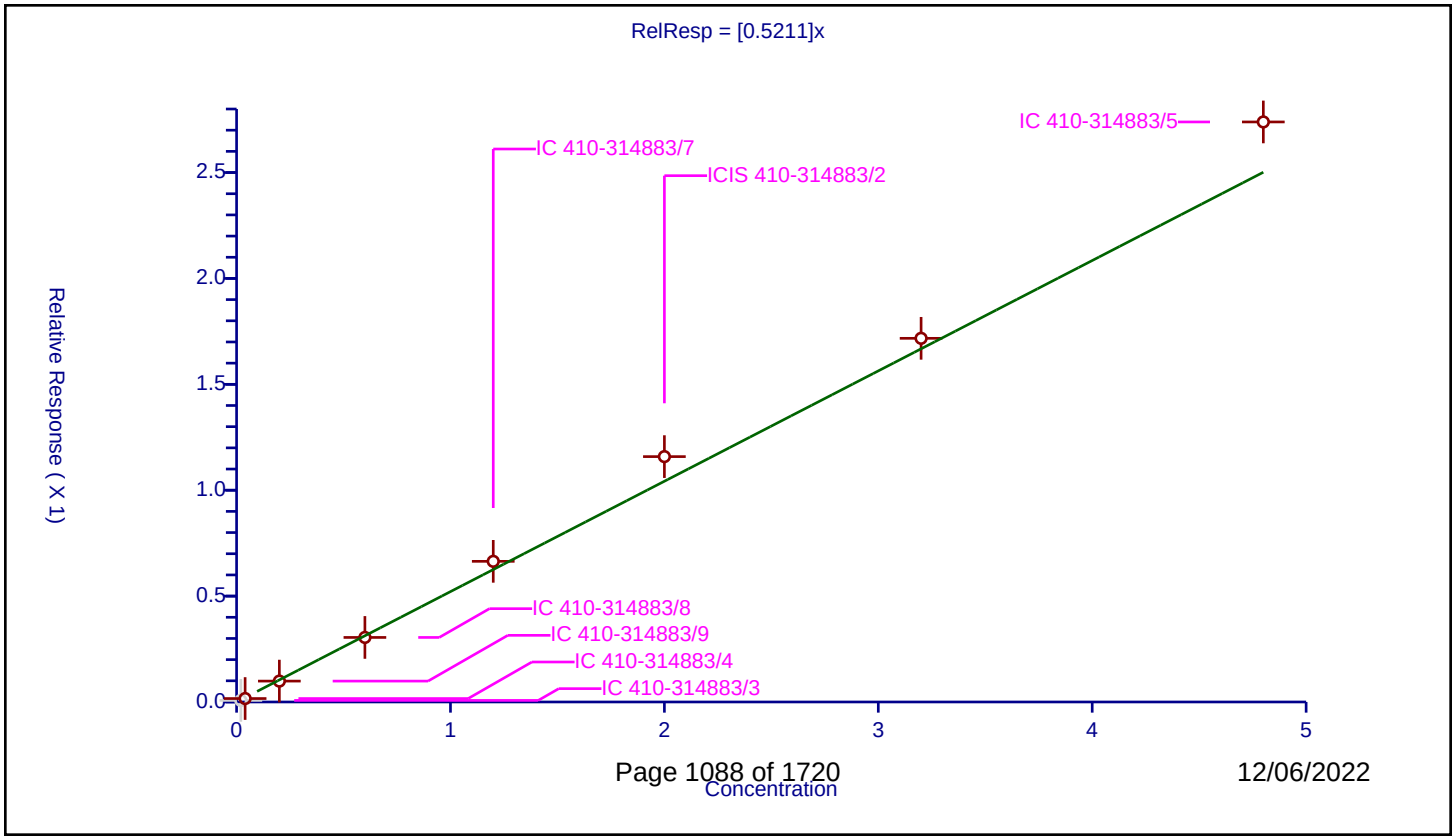
Curve Coefficients

Intercept:	0
Slope:	0.5211

Error Coefficients

Standard Error:	73100
Relative Standard Error:	11.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.02	0.007476	5.0	243431.0	0.373823	N
2	IC 410-314883/4	0.04	0.016268	5.0	235118.0	0.406711	Y
3	IC 410-314883/9	0.2	0.09864	5.0	254916.0	0.493202	Y
4	IC 410-314883/8	0.6	0.304761	5.0	244552.0	0.507936	Y
5	IC 410-314883/7	1.2	0.664107	5.0	249681.0	0.553423	Y
6	ICIS 410-314883/2	2.0	1.158682	5.0	260175.0	0.579341	Y
7	IC 410-314883/6	3.2	1.717259	5.0	262456.0	0.536644	Y
8	IC 410-314883/5	4.8	2.738987	5.0	251060.0	0.570622	Y



Calibration / 2,4,6-Trichlorophenol

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

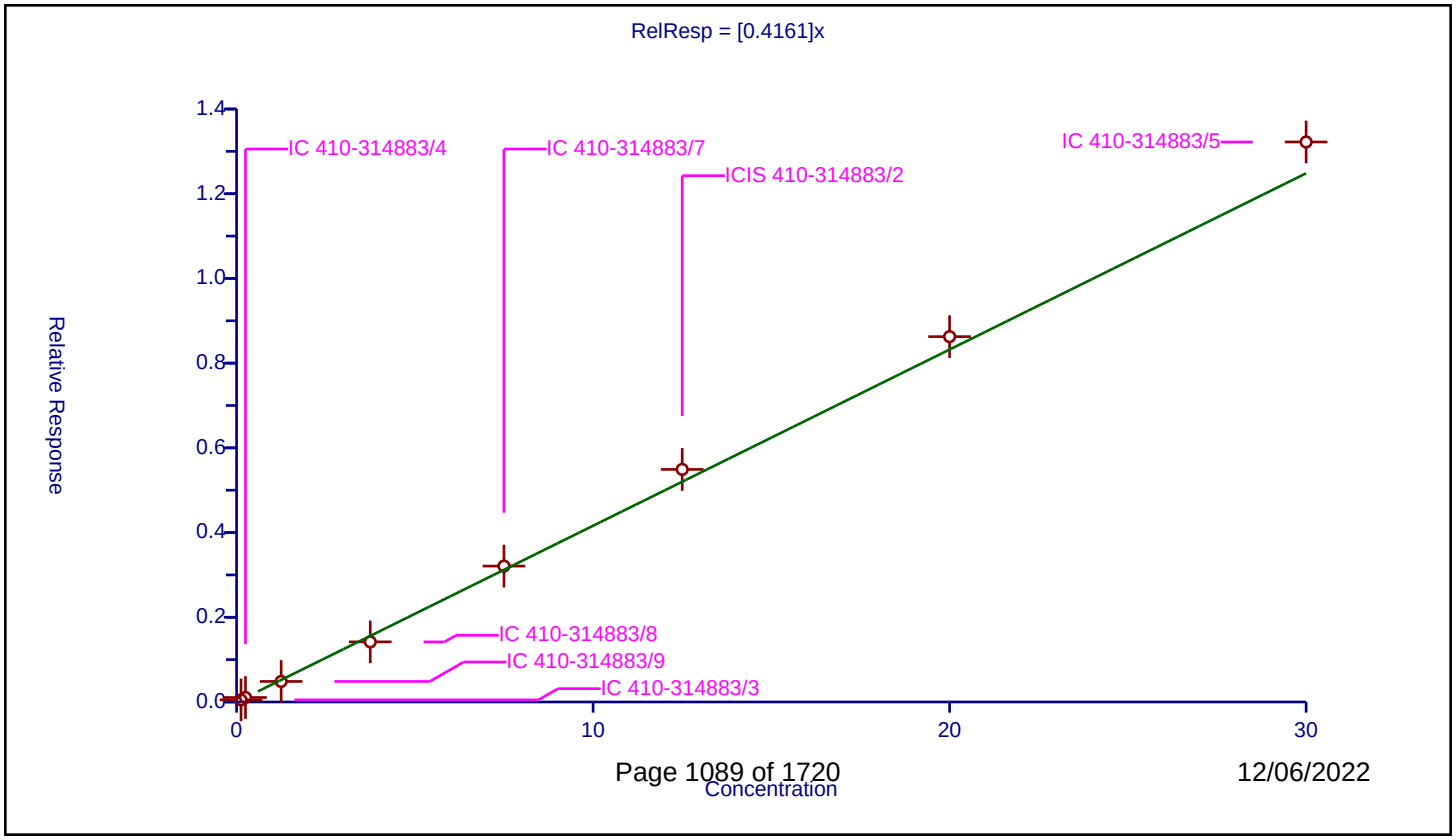
Curve Coefficients

Intercept:	0
Slope:	0.4161

Error Coefficients

Standard Error:	329000
Relative Standard Error:	5.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.049788	5.0	243431.0	0.398306	Y
2	IC 410-314883/4	0.25	0.106159	5.0	235118.0	0.424638	Y
3	IC 410-314883/9	1.25	0.485101	5.0	254916.0	0.388081	Y
4	IC 410-314883/8	3.75	1.419187	5.0	244552.0	0.37845	Y
5	IC 410-314883/7	7.5	3.208434	5.0	249681.0	0.427791	Y
6	ICIS 410-314883/2	12.5	5.490727	5.0	260175.0	0.439258	Y
7	IC 410-314883/6	20.0	8.625617	5.0	262456.0	0.431281	Y
8	IC 410-314883/5	30.0	13.222078	5.0	251060.0	0.440736	Y



Calibration / 2,4,5-Trichlorophenol

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

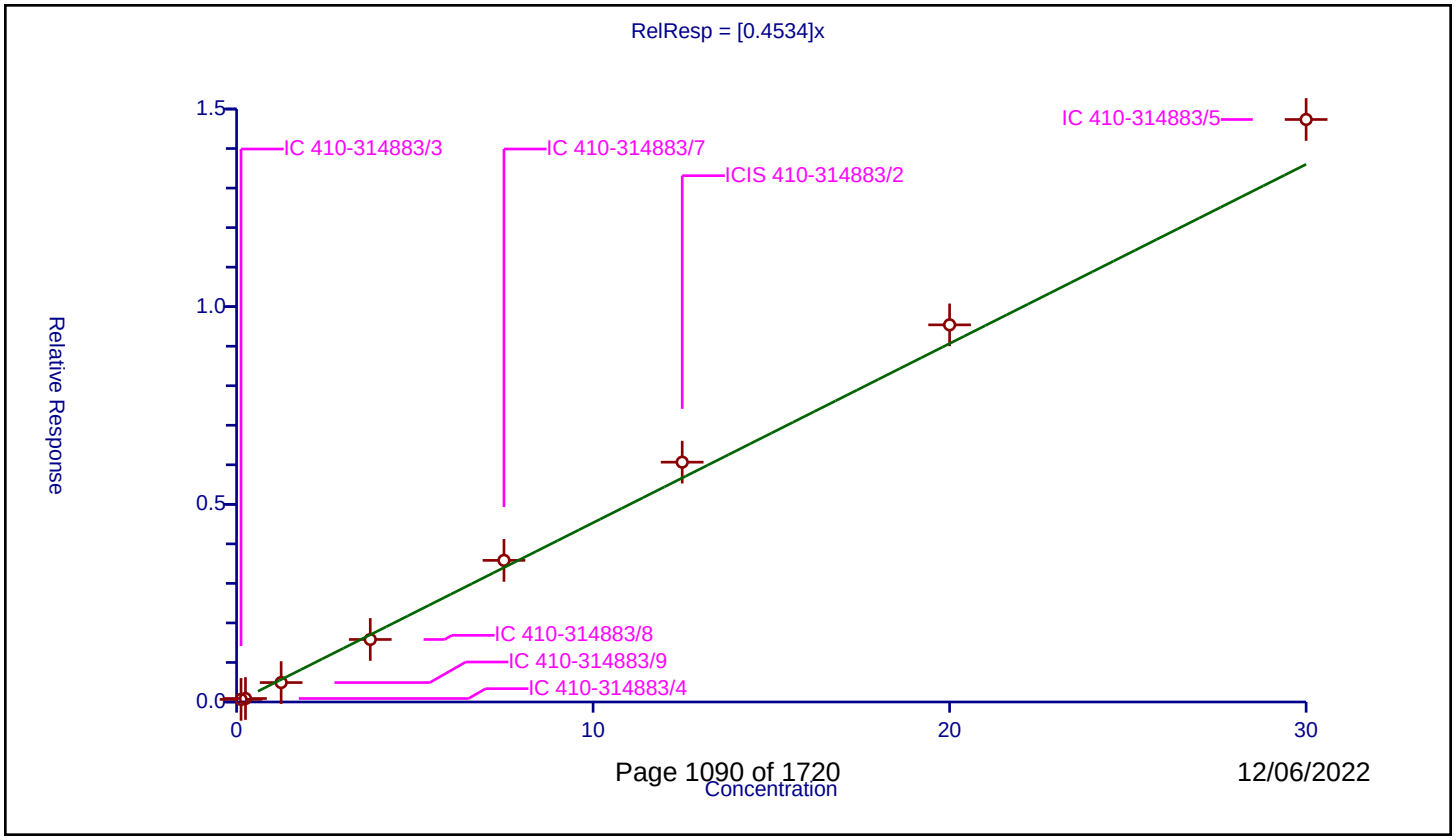
Curve Coefficients

Intercept:	0
Slope:	0.4534

Error Coefficients

Standard Error:	366000
Relative Standard Error:	12.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.066035	5.0	243431.0	0.528281	Y
2	IC 410-314883/4	0.25	0.088147	5.0	235118.0	0.352589	Y
3	IC 410-314883/9	1.25	0.491613	5.0	254916.0	0.39329	Y
4	IC 410-314883/8	3.75	1.58132	5.0	244552.0	0.421685	Y
5	IC 410-314883/7	7.5	3.582571	5.0	249681.0	0.477676	Y
6	ICIS 410-314883/2	12.5	6.066686	5.0	260175.0	0.485335	Y
7	IC 410-314883/6	20.0	9.539866	5.0	262456.0	0.476993	Y
8	IC 410-314883/5	30.0	14.734844	5.0	251060.0	0.491161	Y



Calibration / 2-Fluorobiphenyl (Surr)

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

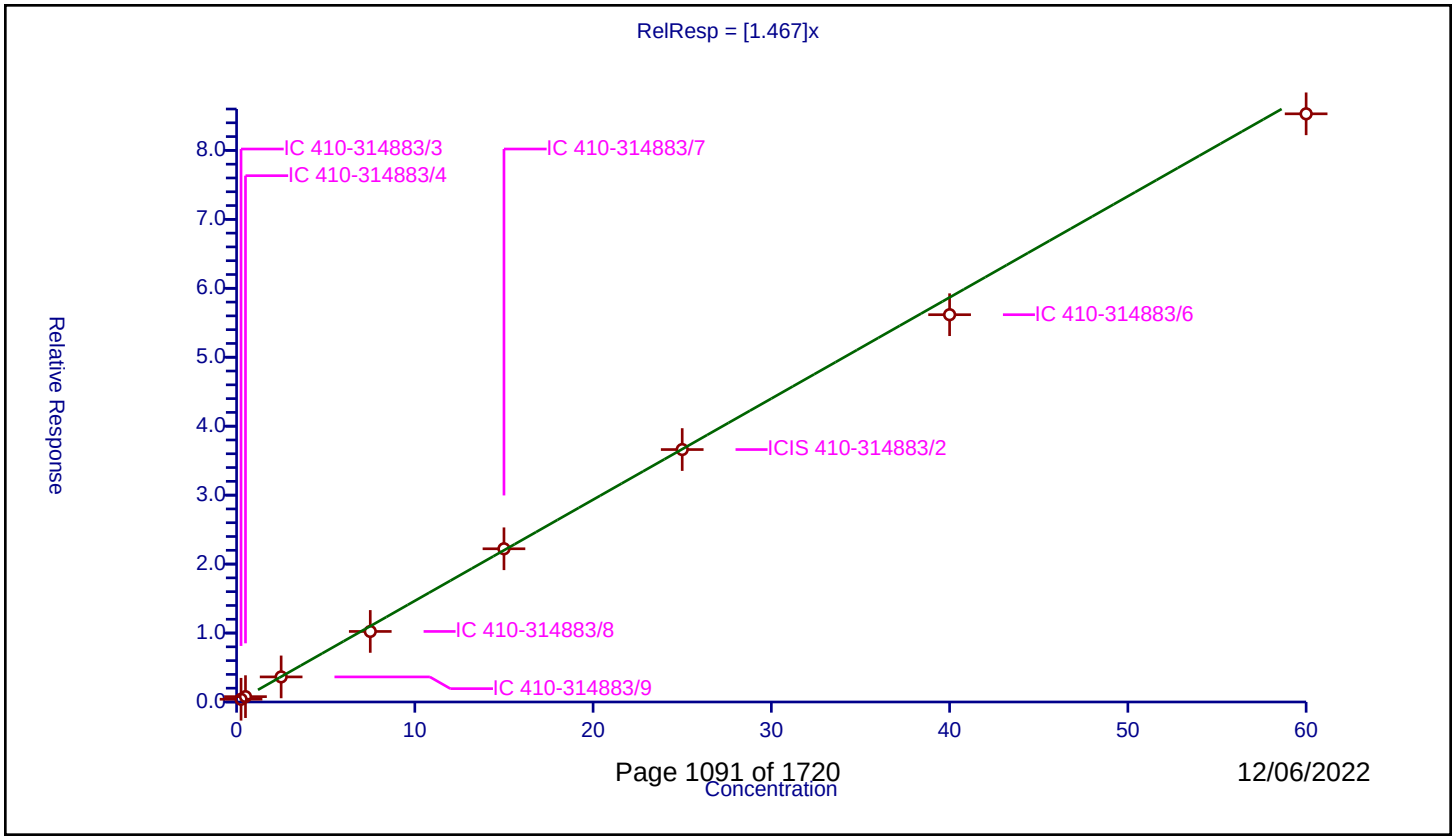
Curve Coefficients

Intercept:	0
Slope:	1.467

Error Coefficients

Standard Error:	2140000
Relative Standard Error:	5.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.25	0.398347	5.0	243431.0	1.593388	Y
2	IC 410-314883/4	0.5	0.775292	5.0	235118.0	1.550583	Y
3	IC 410-314883/9	2.5	3.637787	5.0	254916.0	1.455115	Y
4	IC 410-314883/8	7.5	10.231444	5.0	244552.0	1.364192	Y
5	IC 410-314883/7	15.0	22.219833	5.0	249681.0	1.481322	Y
6	ICIS 410-314883/2	25.0	36.611646	5.0	260175.0	1.464466	Y
7	IC 410-314883/6	40.0	56.16911	5.0	262456.0	1.404228	Y
8	IC 410-314883/5	60.0	85.302517	5.0	251060.0	1.421709	Y



Calibration / Isosafrole Peak 2

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

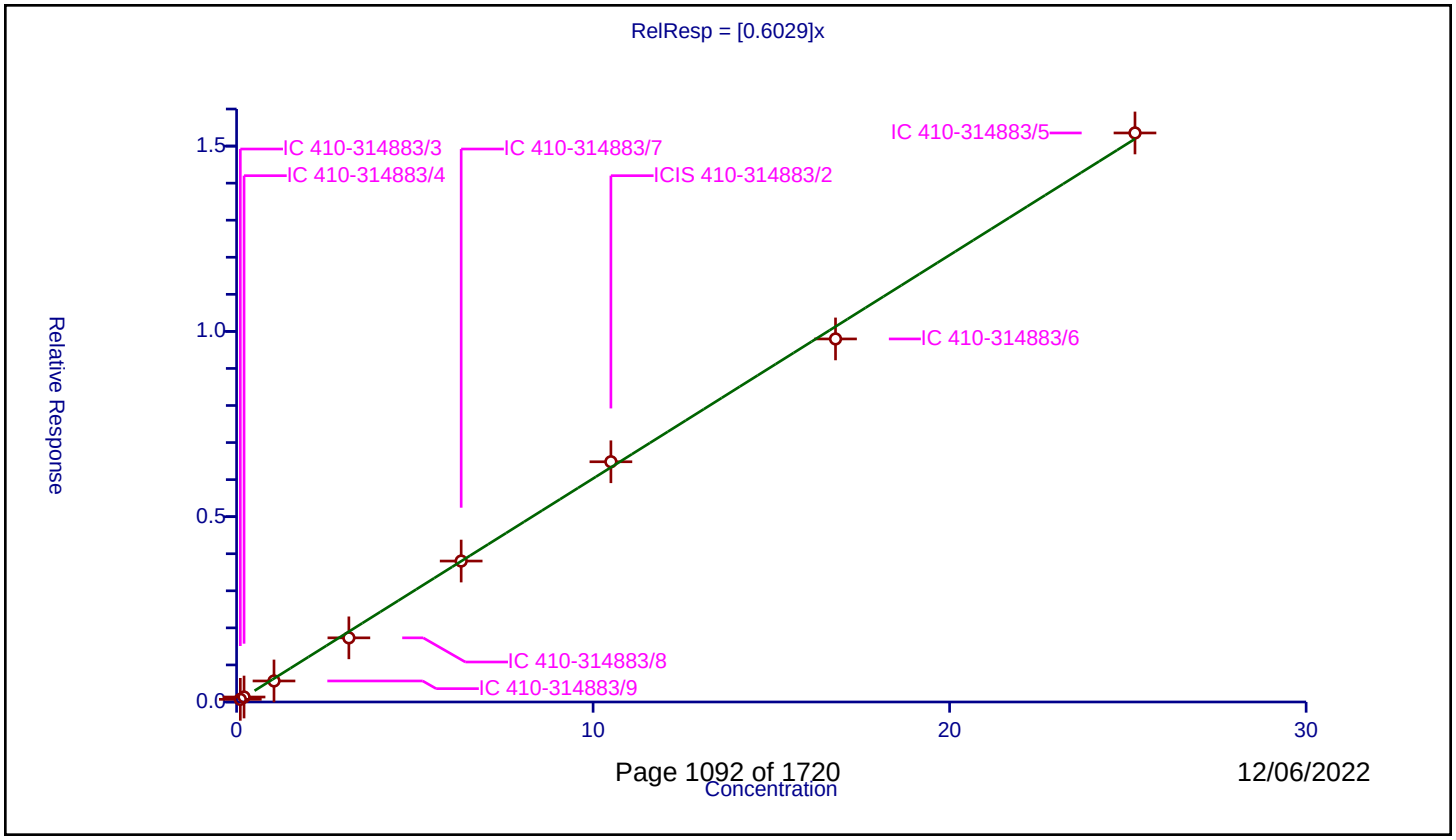
Curve Coefficients

Intercept:	0
Slope:	0.6029

Error Coefficients

Standard Error:	381000
Relative Standard Error:	7.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.105	0.071375	5.0	243431.0	0.679766	Y
2	IC 410-314883/4	0.21	0.134464	5.0	235118.0	0.640307	Y
3	IC 410-314883/9	1.05	0.567618	5.0	254916.0	0.540589	Y
4	IC 410-314883/8	3.15	1.730593	5.0	244552.0	0.549395	Y
5	IC 410-314883/7	6.3	3.803073	5.0	249681.0	0.603662	Y
6	ICIS 410-314883/2	10.5	6.482137	5.0	260175.0	0.617346	Y
7	IC 410-314883/6	16.8	9.795947	5.0	262456.0	0.583092	Y
8	IC 410-314883/5	25.2	15.353939	5.0	251060.0	0.609283	Y



Calibration / 1,1'-Biphenyl

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

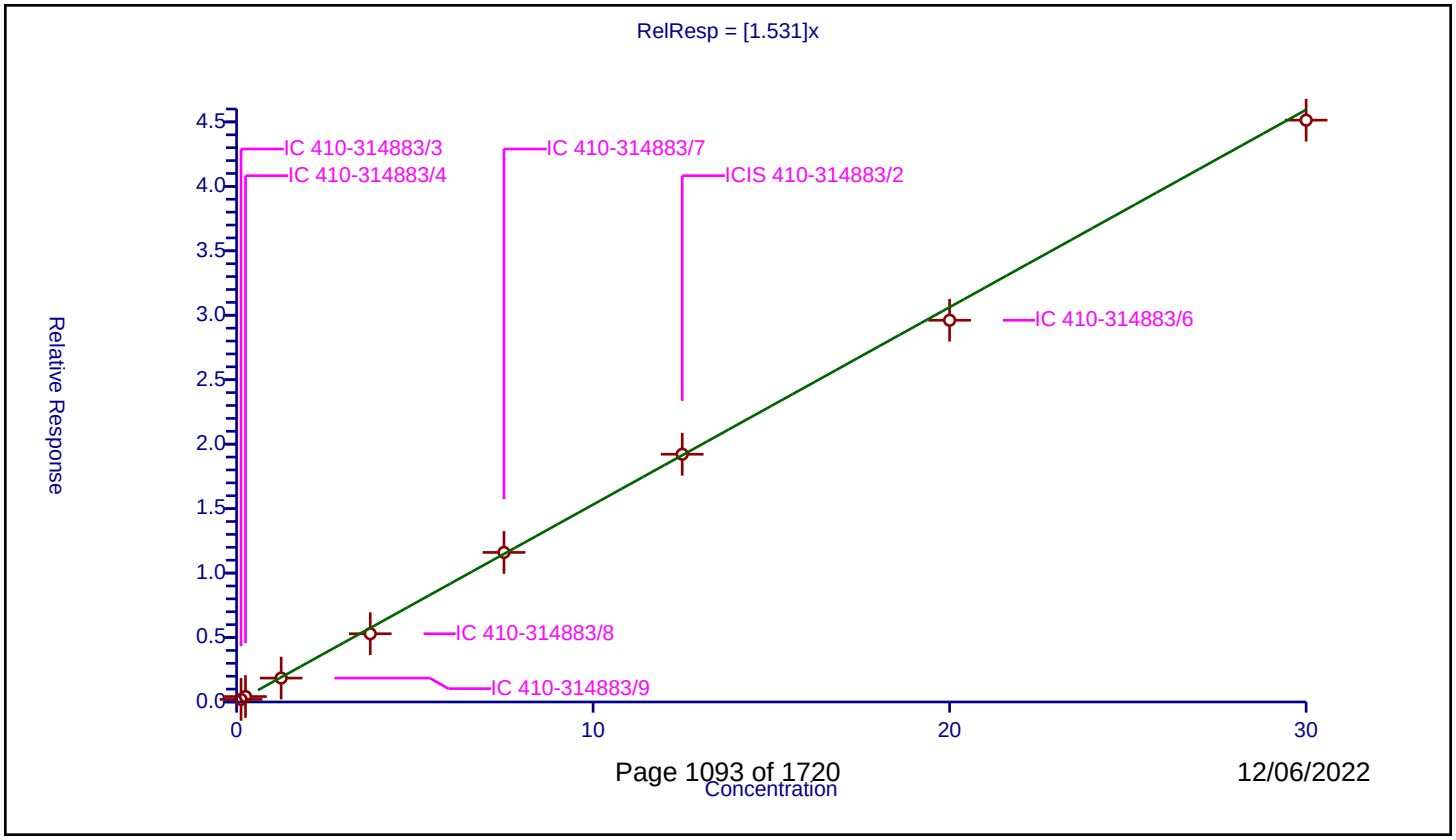
Curve Coefficients

Intercept:	0
Slope:	1.531

Error Coefficients

Standard Error:	1130000
Relative Standard Error:	5.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.198619	5.0	243431.0	1.588951	Y
2	IC 410-314883/4	0.25	0.423851	5.0	235118.0	1.695404	Y
3	IC 410-314883/9	1.25	1.855415	5.0	254916.0	1.484332	Y
4	IC 410-314883/8	3.75	5.294518	5.0	244552.0	1.411872	Y
5	IC 410-314883/7	7.5	11.603045	5.0	249681.0	1.547073	Y
6	ICIS 410-314883/2	12.5	19.219448	5.0	260175.0	1.537556	Y
7	IC 410-314883/6	20.0	29.614716	5.0	262456.0	1.480736	Y
8	IC 410-314883/5	30.0	45.135027	5.0	251060.0	1.504501	Y



Calibration / 2-Chloronaphthalene

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

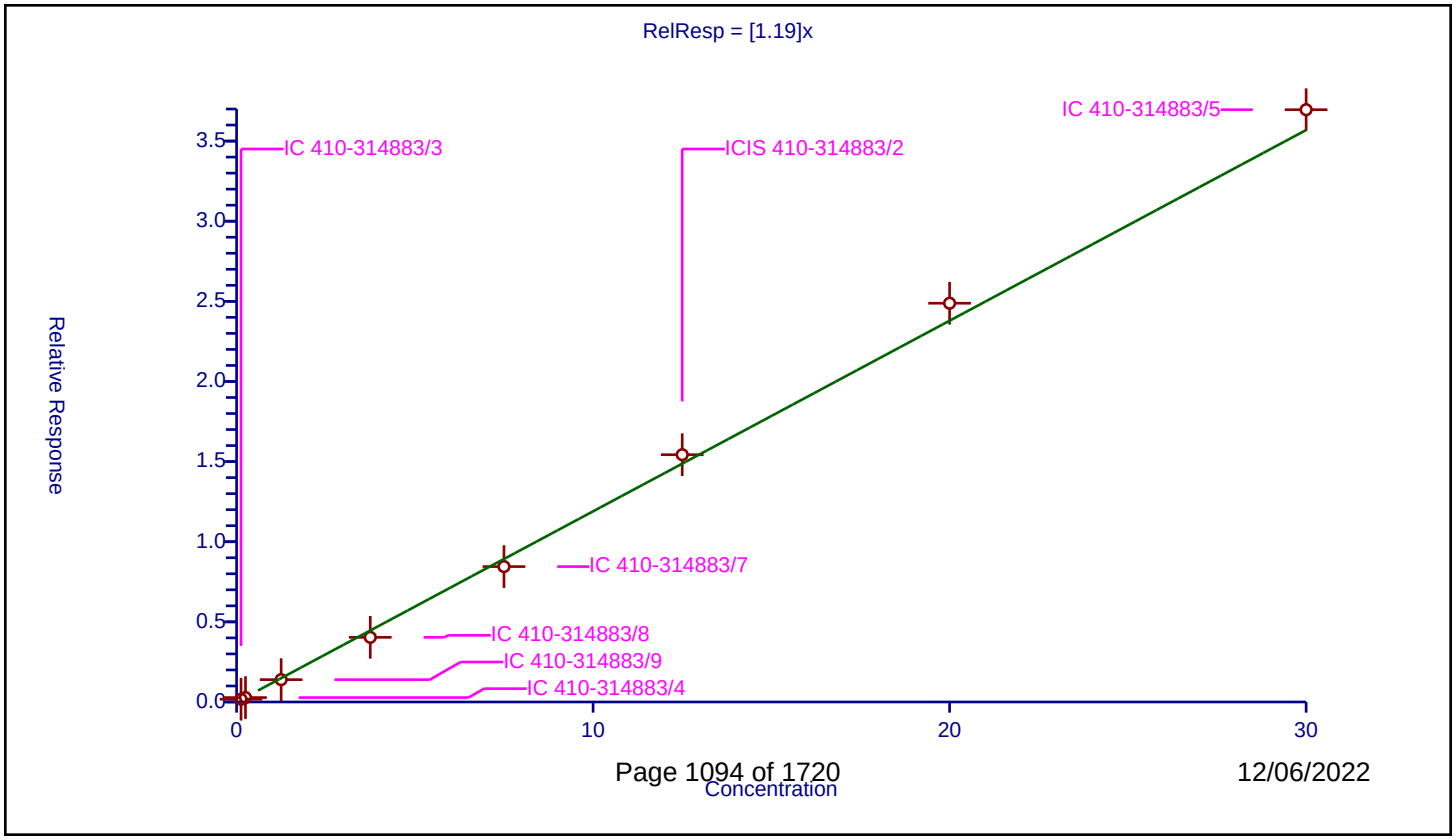
Curve Coefficients

Intercept:	0
Slope:	1.19

Error Coefficients

Standard Error:	927000
Relative Standard Error:	8.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.173293	5.0	243431.0	1.386348	Y
2	IC 410-314883/4	0.25	0.275883	5.0	235118.0	1.103531	Y
3	IC 410-314883/9	1.25	1.392753	5.0	254916.0	1.114202	Y
4	IC 410-314883/8	3.75	4.033375	5.0	244552.0	1.075567	Y
5	IC 410-314883/7	7.5	8.44844	5.0	249681.0	1.126459	Y
6	ICIS 410-314883/2	12.5	15.430326	5.0	260175.0	1.234426	Y
7	IC 410-314883/6	20.0	24.881904	5.0	262456.0	1.244095	Y
8	IC 410-314883/5	30.0	36.956564	5.0	251060.0	1.231885	Y



Calibration / 1-Chloronaphthalene

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

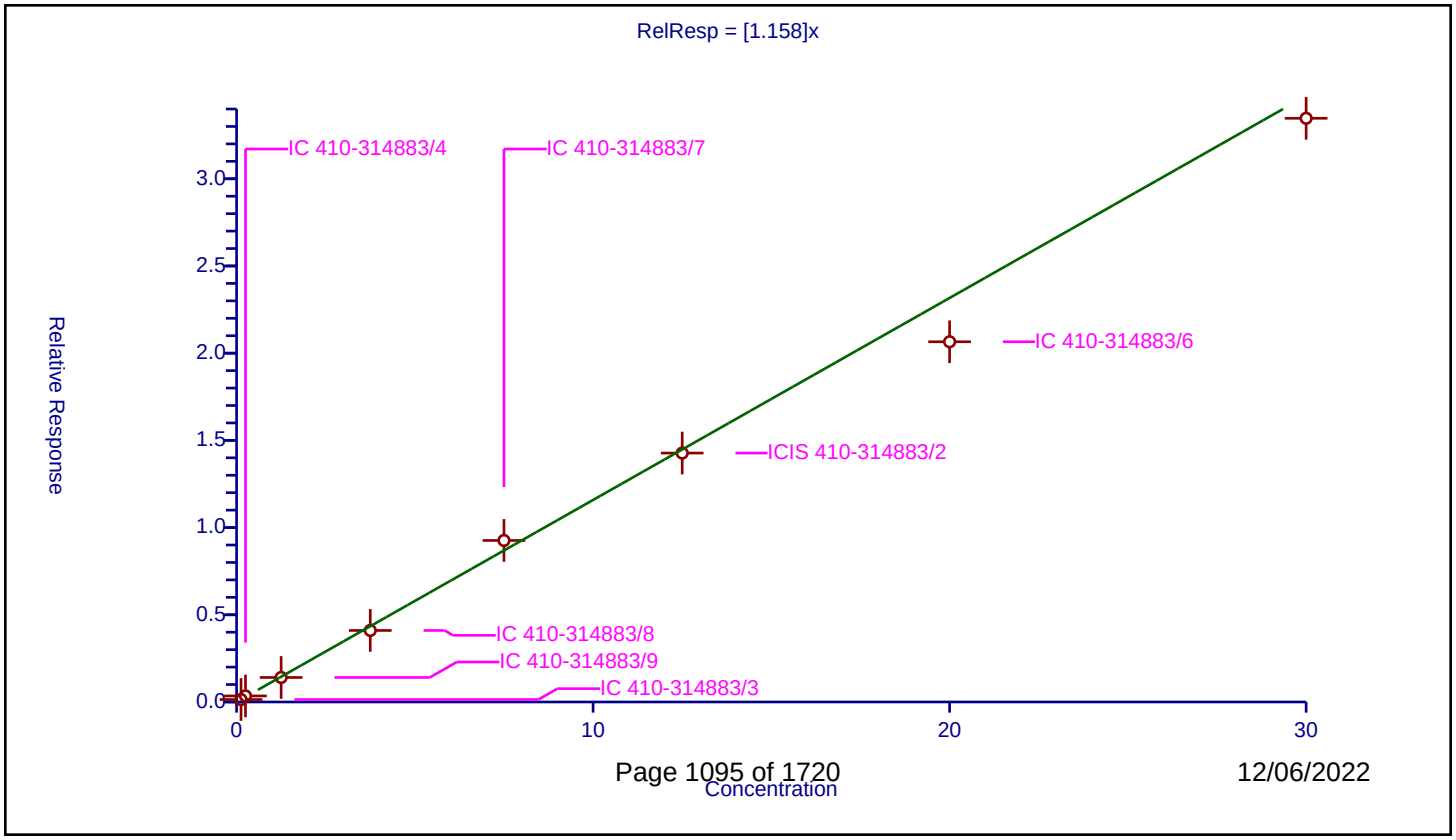
Curve Coefficients

Intercept:	0
Slope:	1.158

Error Coefficients

Standard Error:	829000
Relative Standard Error:	9.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.141087	5.0	243431.0	1.128698	Y
2	IC 410-314883/4	0.25	0.348548	5.0	235118.0	1.394194	Y
3	IC 410-314883/9	1.25	1.406051	5.0	254916.0	1.124841	Y
4	IC 410-314883/8	3.75	4.101377	5.0	244552.0	1.093701	Y
5	IC 410-314883/7	7.5	9.261858	5.0	249681.0	1.234914	Y
6	ICIS 410-314883/2	12.5	14.27199	5.0	260175.0	1.141759	Y
7	IC 410-314883/6	20.0	20.654948	5.0	262456.0	1.032747	Y
8	IC 410-314883/5	30.0	33.467617	5.0	251060.0	1.115587	Y



Calibration / Phenyl ether

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

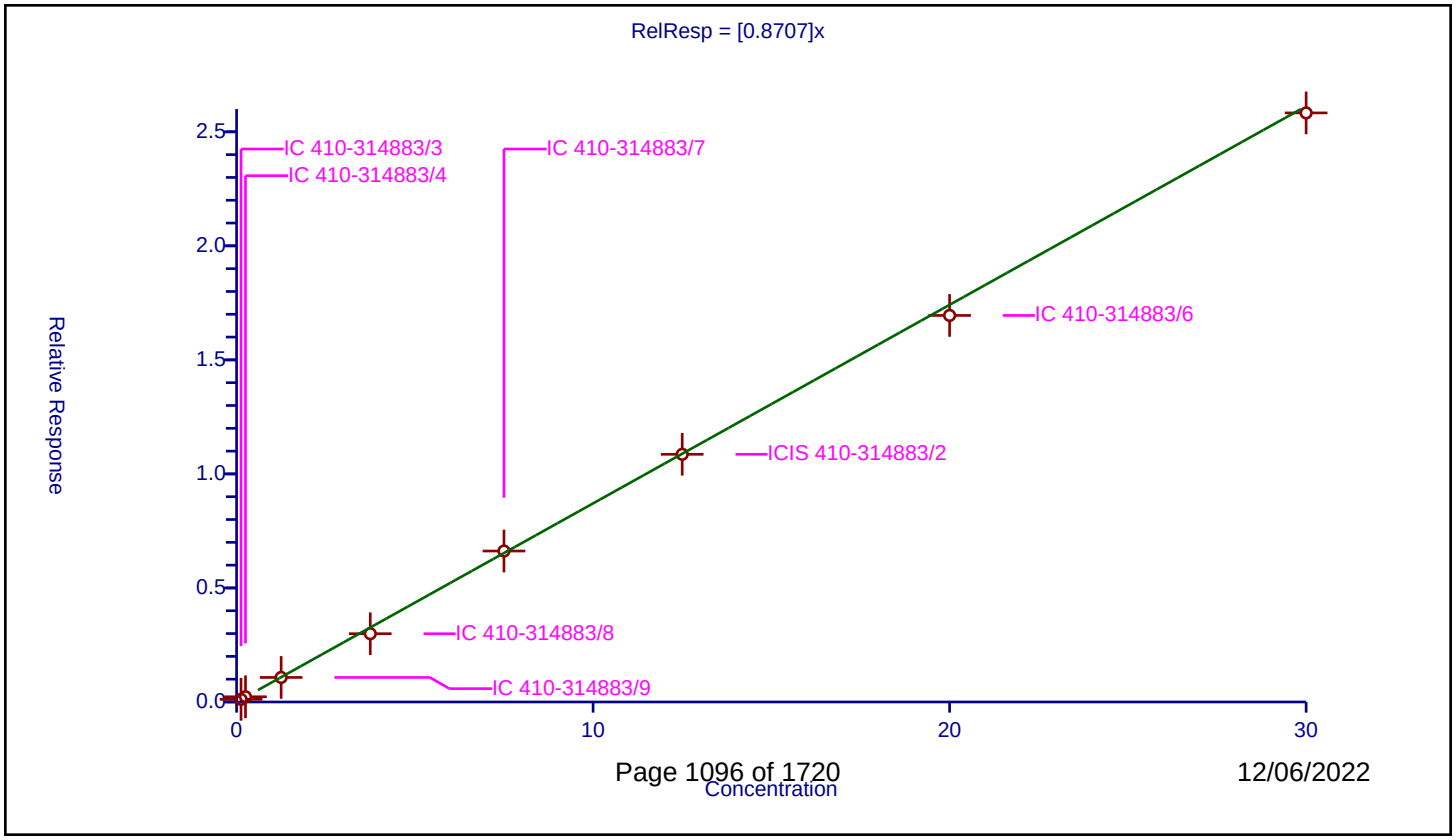
Curve Coefficients

Intercept:	0
Slope:	0.8707

Error Coefficients

Standard Error:	647000
Relative Standard Error:	4.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.116604	5.0	243431.0	0.932831	Y
2	IC 410-314883/4	0.25	0.228502	5.0	235118.0	0.914009	Y
3	IC 410-314883/9	1.25	1.075747	5.0	254916.0	0.860597	Y
4	IC 410-314883/8	3.75	2.994353	5.0	244552.0	0.798494	Y
5	IC 410-314883/7	7.5	6.619466	5.0	249681.0	0.882596	Y
6	ICIS 410-314883/2	12.5	10.860767	5.0	260175.0	0.868861	Y
7	IC 410-314883/6	20.0	16.94926	5.0	262456.0	0.847463	Y
8	IC 410-314883/5	30.0	25.829065	5.0	251060.0	0.860969	Y



Calibration / 2-Nitroaniline

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

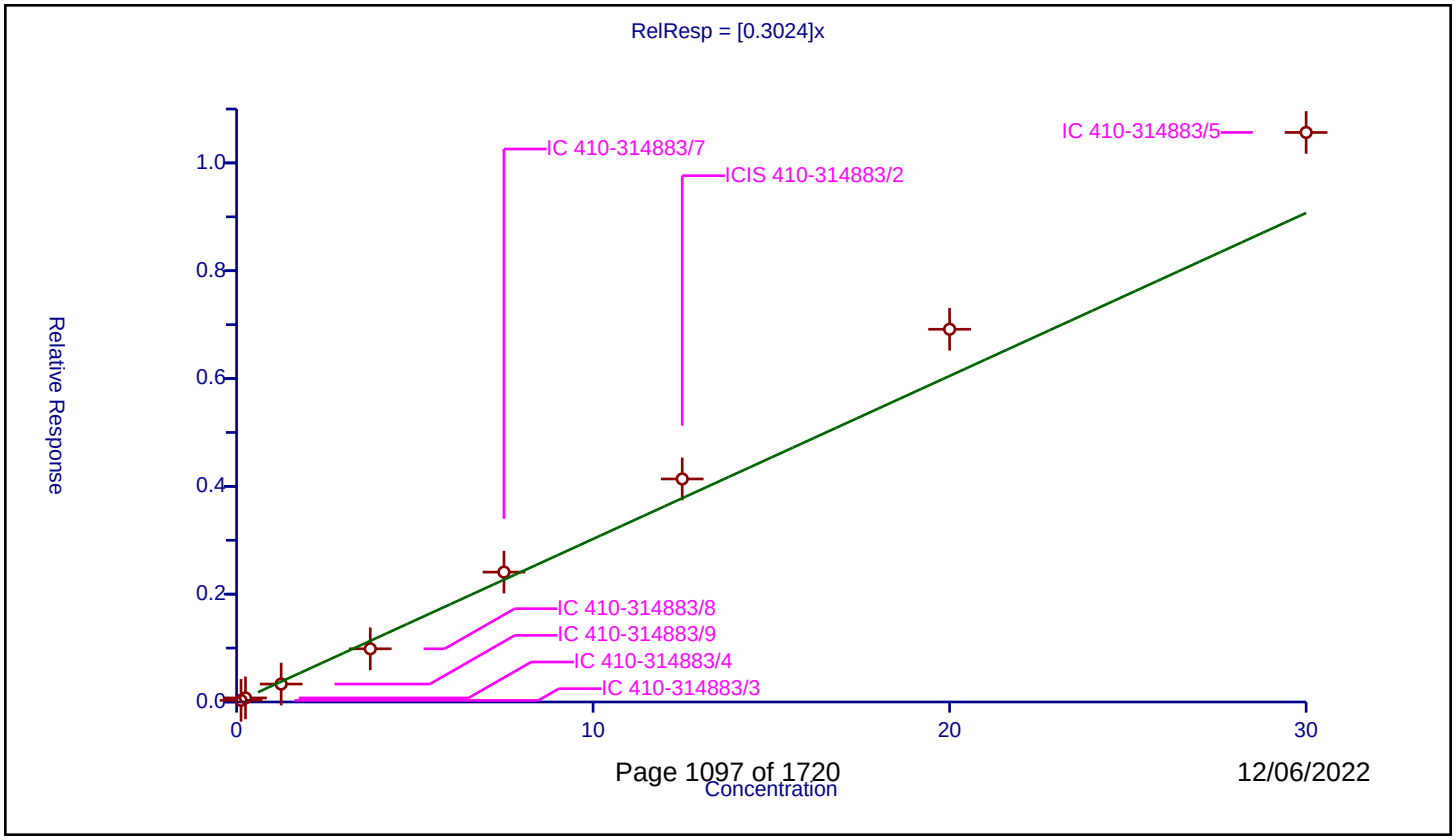
Curve Coefficients

Intercept:	0
Slope:	0.3024

Error Coefficients

Standard Error:	261000
Relative Standard Error:	13.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.979

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.029865	5.0	243431.0	0.238918	Y
2	IC 410-314883/4	0.25	0.075239	5.0	235118.0	0.300955	Y
3	IC 410-314883/9	1.25	0.332776	5.0	254916.0	0.266221	Y
4	IC 410-314883/8	3.75	0.986477	5.0	244552.0	0.263061	Y
5	IC 410-314883/7	7.5	2.409134	5.0	249681.0	0.321218	Y
6	ICIS 410-314883/2	12.5	4.13735	5.0	260175.0	0.330988	Y
7	IC 410-314883/6	20.0	6.914473	5.0	262456.0	0.345724	Y
8	IC 410-314883/5	30.0	10.565303	5.0	251060.0	0.352177	Y



Calibration / 1,4-Naphthoquinone

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

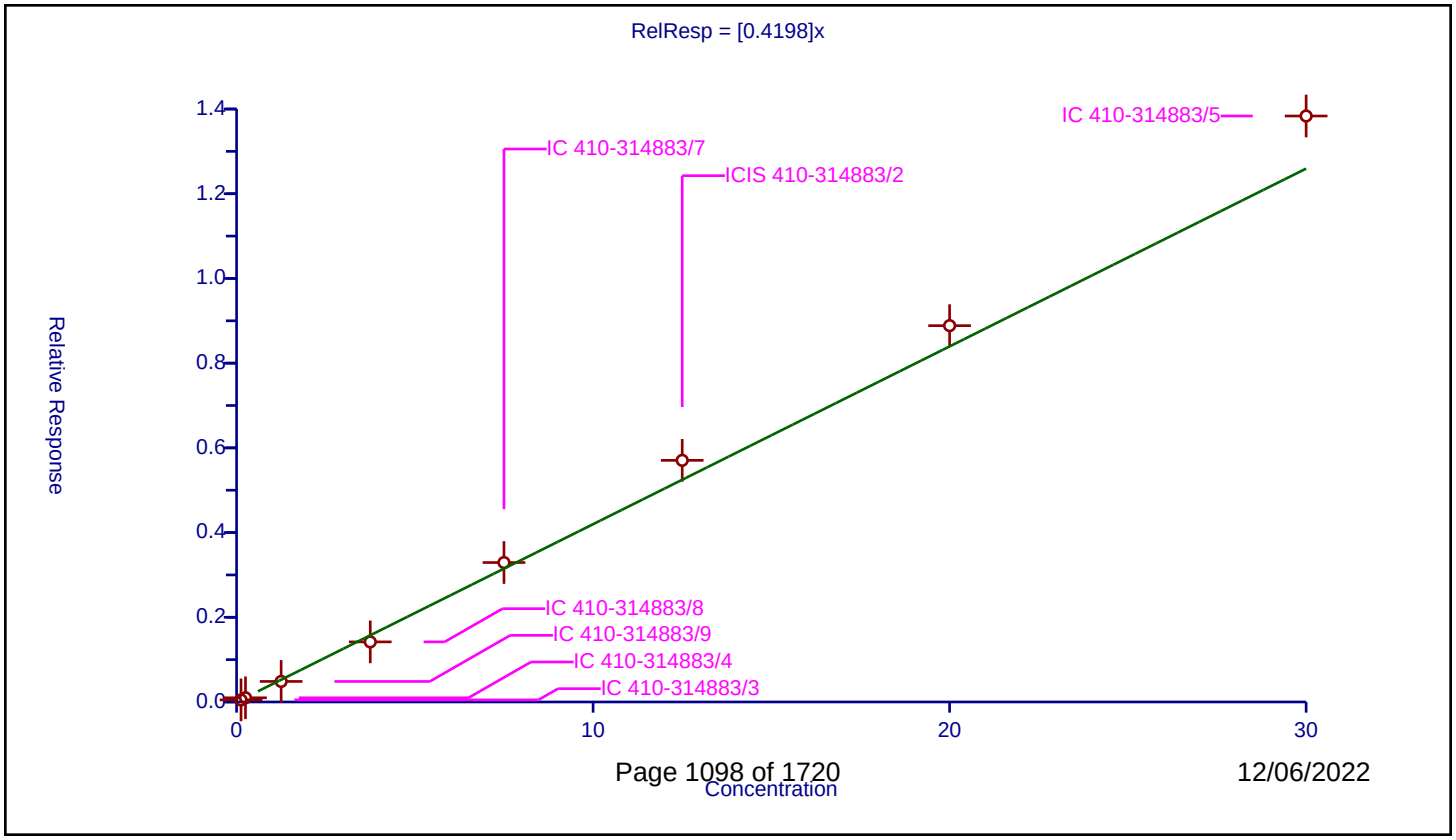
Curve Coefficients

Intercept:	0
Slope:	0.4198

Error Coefficients

Standard Error:	342000
Relative Standard Error:	8.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.049275	5.0	243431.0	0.394198	Y
2	IC 410-314883/4	0.25	0.099184	5.0	235118.0	0.396737	Y
3	IC 410-314883/9	1.25	0.484885	5.0	254916.0	0.387908	Y
4	IC 410-314883/8	3.75	1.418942	5.0	244552.0	0.378384	Y
5	IC 410-314883/7	7.5	3.292421	5.0	249681.0	0.438989	Y
6	ICIS 410-314883/2	12.5	5.704872	5.0	260175.0	0.45639	Y
7	IC 410-314883/6	20.0	8.885451	5.0	262456.0	0.444273	Y
8	IC 410-314883/5	30.0	13.834741	5.0	251060.0	0.461158	Y



Calibration / 1,4-Dinitrobenzene

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

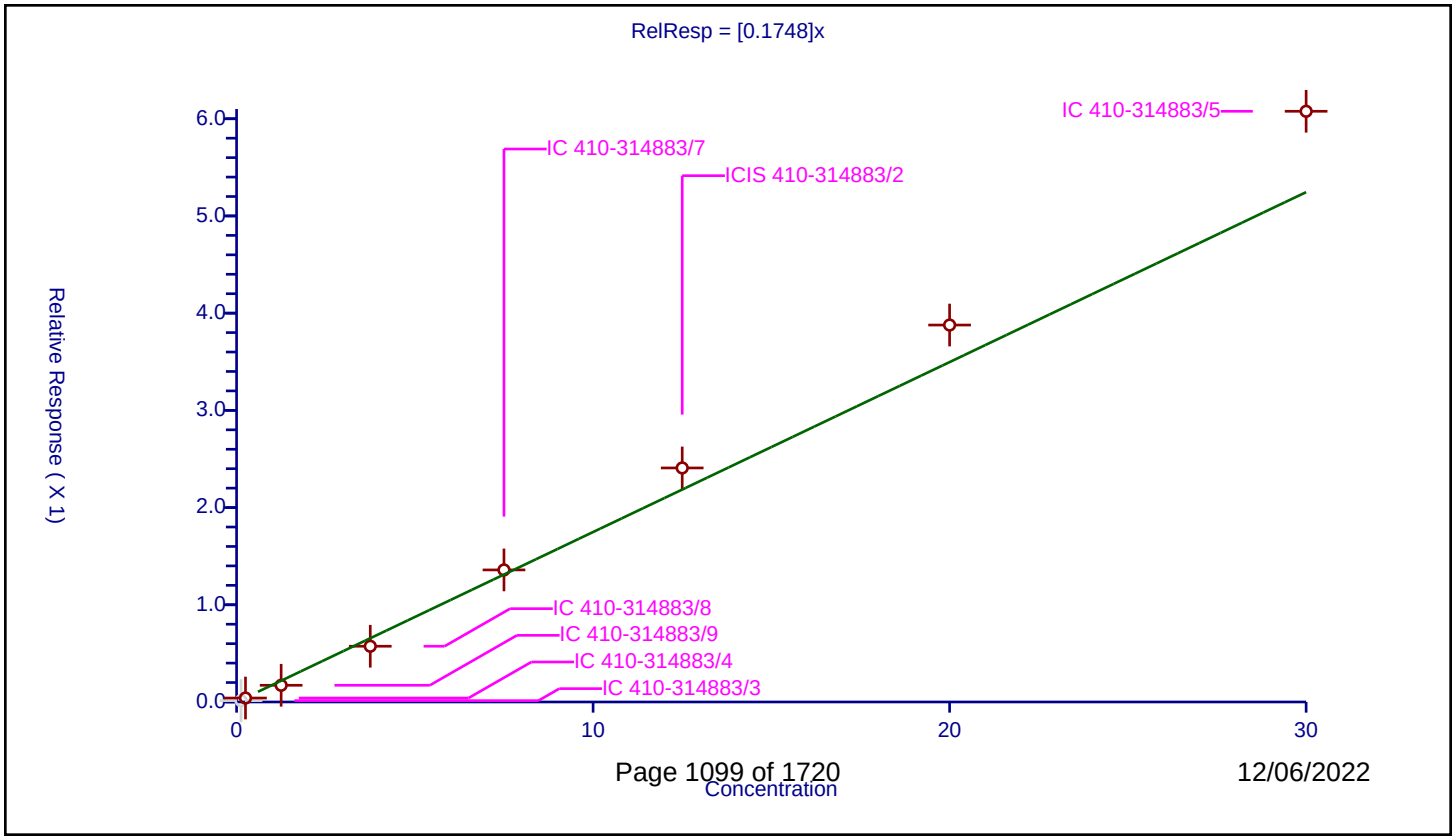
Curve Coefficients

Intercept:	0
Slope:	0.1748

Error Coefficients

Standard Error:	161000
Relative Standard Error:	13.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.013967	5.0	243431.0	0.111736	N
2	IC 410-314883/4	0.25	0.040809	5.0	235118.0	0.163237	Y
3	IC 410-314883/9	1.25	0.171821	5.0	254916.0	0.137457	Y
4	IC 410-314883/8	3.75	0.573395	5.0	244552.0	0.152905	Y
5	IC 410-314883/7	7.5	1.358554	5.0	249681.0	0.18114	Y
6	ICIS 410-314883/2	12.5	2.407495	5.0	260175.0	0.1926	Y
7	IC 410-314883/6	20.0	3.877755	5.0	262456.0	0.193888	Y
8	IC 410-314883/5	30.0	6.076555	5.0	251060.0	0.202552	Y



Calibration / Dimethyl phthalate

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

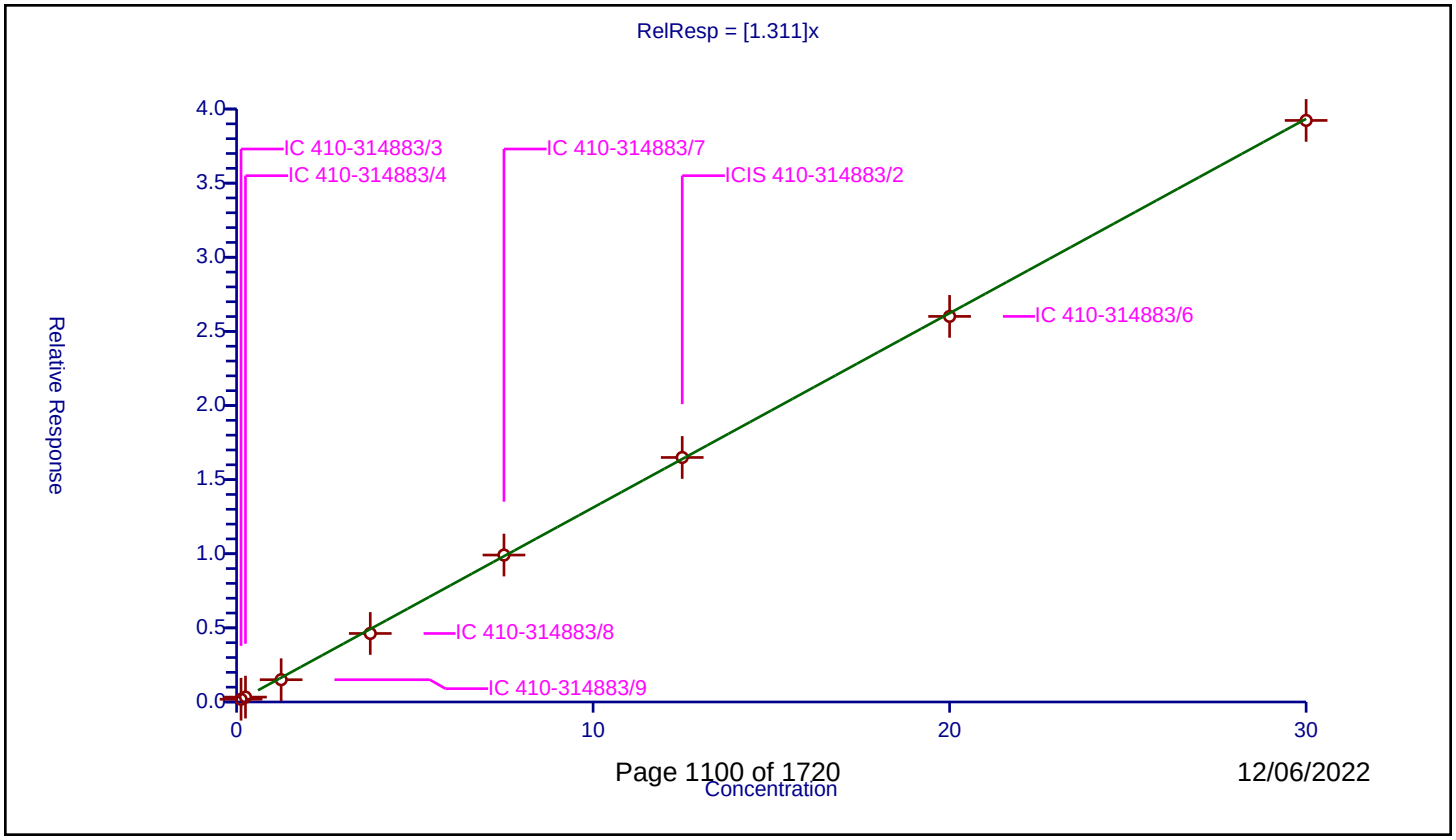
Curve Coefficients

Intercept:	0
Slope:	1.311

Error Coefficients

Standard Error:	984000
Relative Standard Error:	6.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.186192	5.0	243431.0	1.489539	Y
2	IC 410-314883/4	0.25	0.329196	5.0	235118.0	1.316786	Y
3	IC 410-314883/9	1.25	1.502652	5.0	254916.0	1.202121	Y
4	IC 410-314883/8	3.75	4.621451	5.0	244552.0	1.232387	Y
5	IC 410-314883/7	7.5	9.912448	5.0	249681.0	1.32166	Y
6	ICIS 410-314883/2	12.5	16.494187	5.0	260175.0	1.319535	Y
7	IC 410-314883/6	20.0	26.009712	5.0	262456.0	1.300486	Y
8	IC 410-314883/5	30.0	39.229626	5.0	251060.0	1.307654	Y



Calibration / 1,3-Dinitrobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

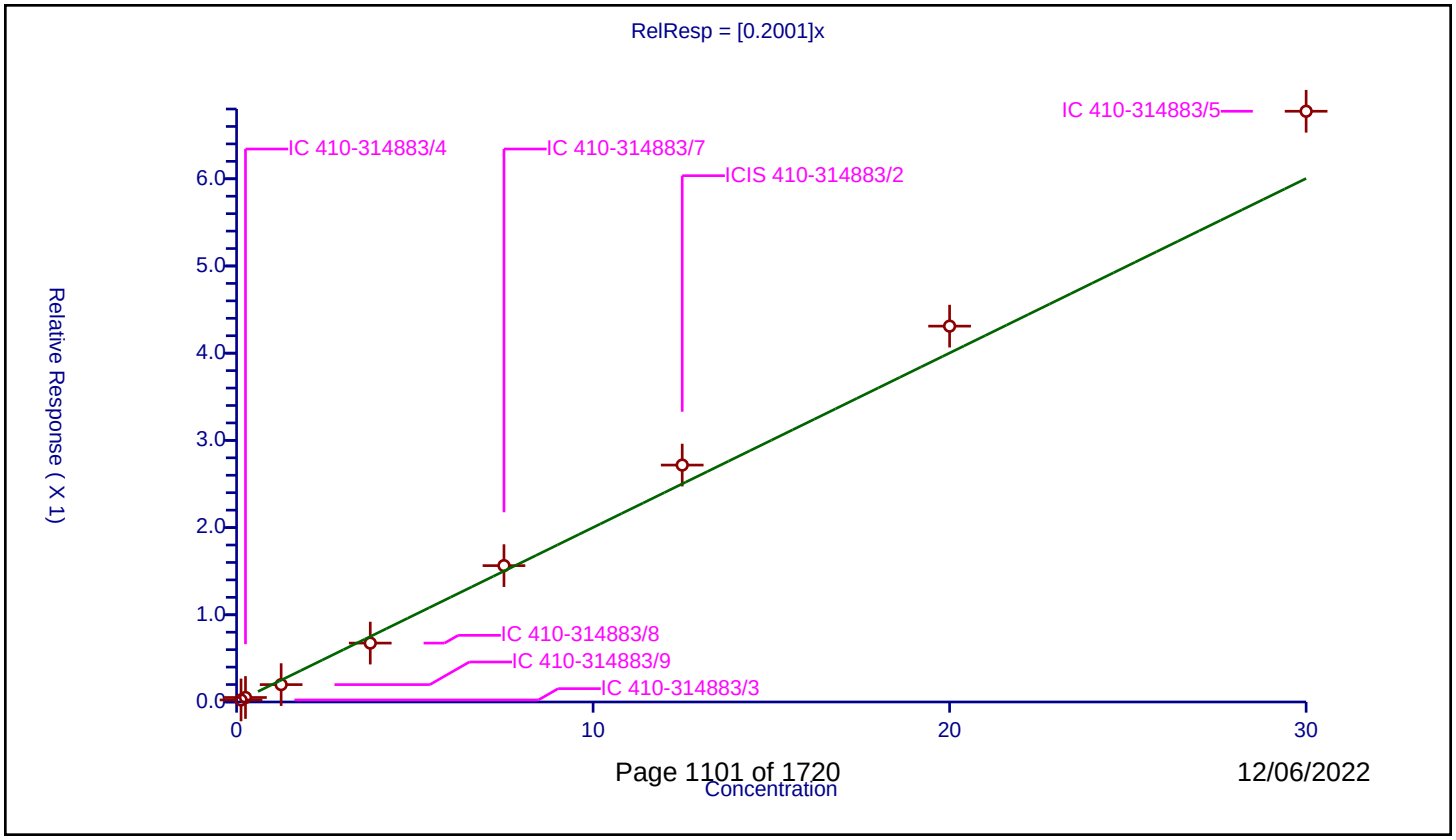
Curve Coefficients

Intercept:	0
Slope:	0.2001

Error Coefficients

Standard Error:	167000
Relative Standard Error:	11.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.023497	5.0	243431.0	0.187979	Y
2	IC 410-314883/4	0.25	0.051591	5.0	235118.0	0.206364	Y
3	IC 410-314883/9	1.25	0.199105	5.0	254916.0	0.159284	Y
4	IC 410-314883/8	3.75	0.675255	5.0	244552.0	0.180068	Y
5	IC 410-314883/7	7.5	1.563815	5.0	249681.0	0.208509	Y
6	ICIS 410-314883/2	12.5	2.717017	5.0	260175.0	0.217361	Y
7	IC 410-314883/6	20.0	4.310284	5.0	262456.0	0.215514	Y
8	IC 410-314883/5	30.0	6.774337	5.0	251060.0	0.225811	Y



Calibration / 2,6-Dinitrotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

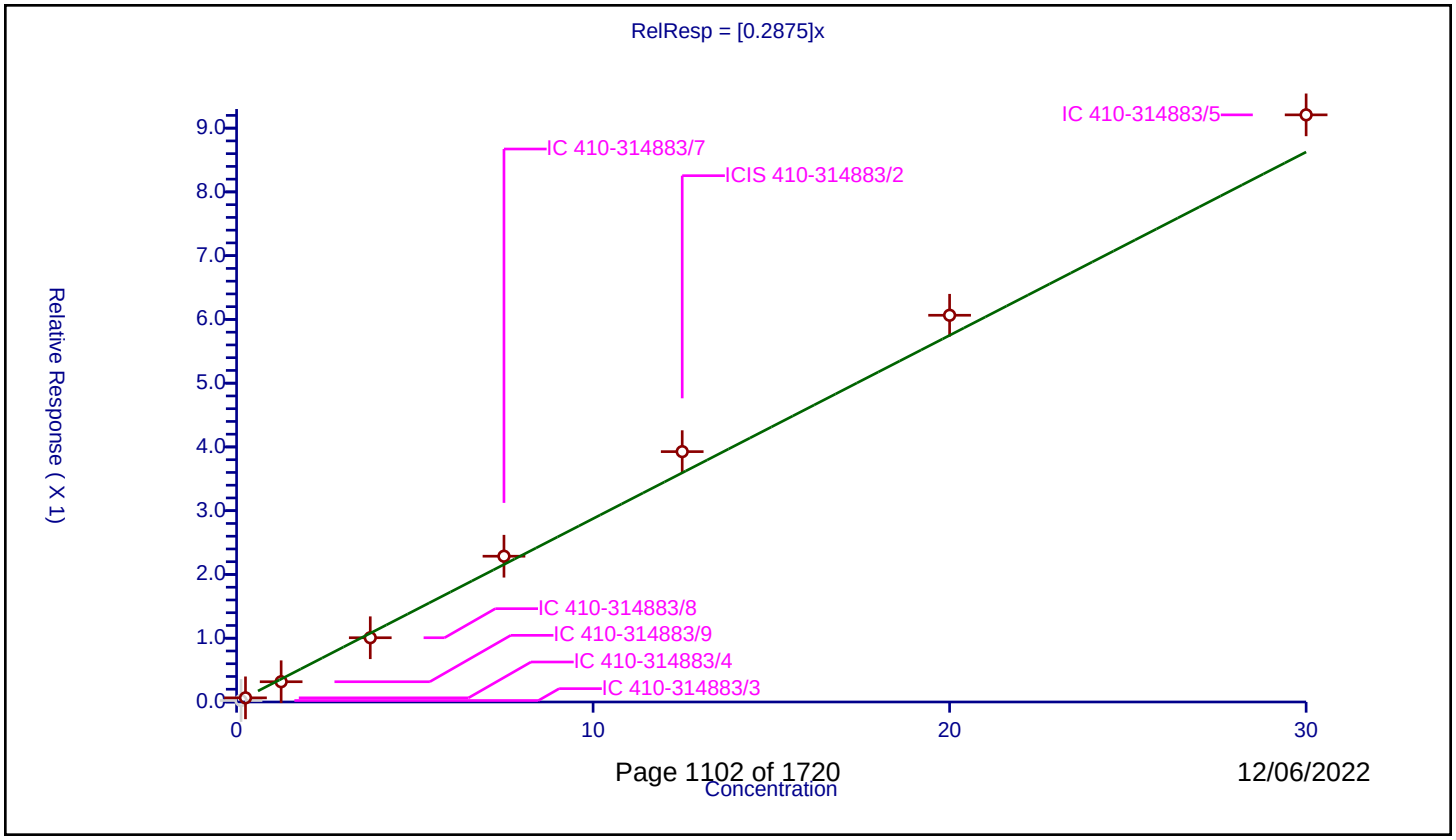
Curve Coefficients

Intercept:	0
Slope:	0.2875

Error Coefficients

Standard Error:	249000
Relative Standard Error:	8.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.023066	5.0	243431.0	0.184529	N
2	IC 410-314883/4	0.25	0.065201	5.0	235118.0	0.260805	Y
3	IC 410-314883/9	1.25	0.317477	5.0	254916.0	0.253982	Y
4	IC 410-314883/8	3.75	1.007557	5.0	244552.0	0.268682	Y
5	IC 410-314883/7	7.5	2.286217	5.0	249681.0	0.304829	Y
6	ICIS 410-314883/2	12.5	3.926626	5.0	260175.0	0.31413	Y
7	IC 410-314883/6	20.0	6.06555	5.0	262456.0	0.303278	Y
8	IC 410-314883/5	30.0	9.208436	5.0	251060.0	0.306948	Y



Calibration / Acenaphthylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

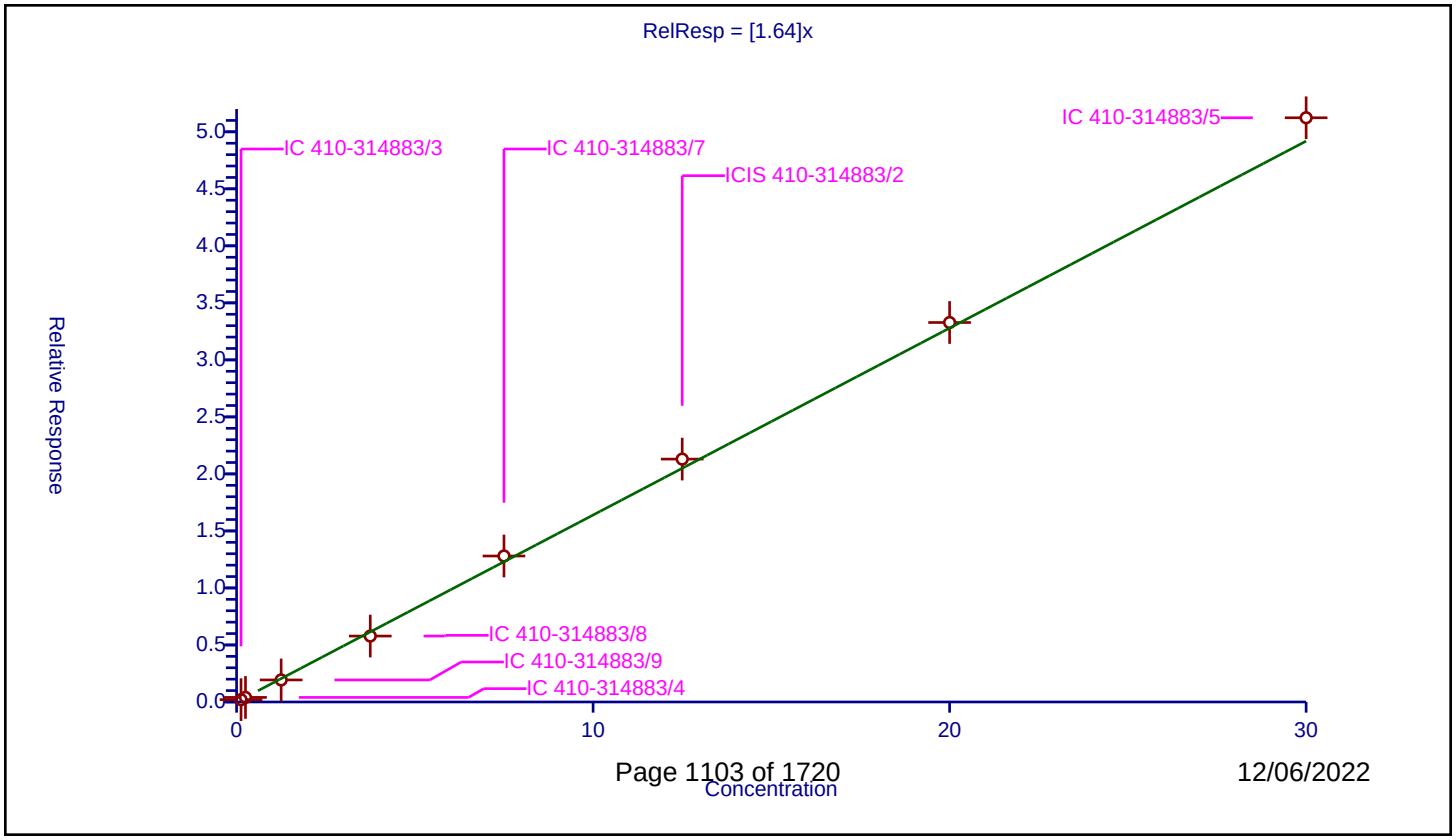
Curve Coefficients

Intercept:	0
Slope:	1.64

Error Coefficients

Standard Error:	1280000
Relative Standard Error:	4.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.205233	5.0	243431.0	1.641862	Y
2	IC 410-314883/4	0.25	0.401139	5.0	235118.0	1.604556	Y
3	IC 410-314883/9	1.25	1.931617	5.0	254916.0	1.545293	Y
4	IC 410-314883/8	3.75	5.782124	5.0	244552.0	1.5419	Y
5	IC 410-314883/7	7.5	12.801615	5.0	249681.0	1.706882	Y
6	ICIS 410-314883/2	12.5	21.300048	5.0	260175.0	1.704004	Y
7	IC 410-314883/6	20.0	33.27794	5.0	262456.0	1.663897	Y
8	IC 410-314883/5	30.0	51.233371	5.0	251060.0	1.707779	Y



Calibration / 3-Nitroaniline

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

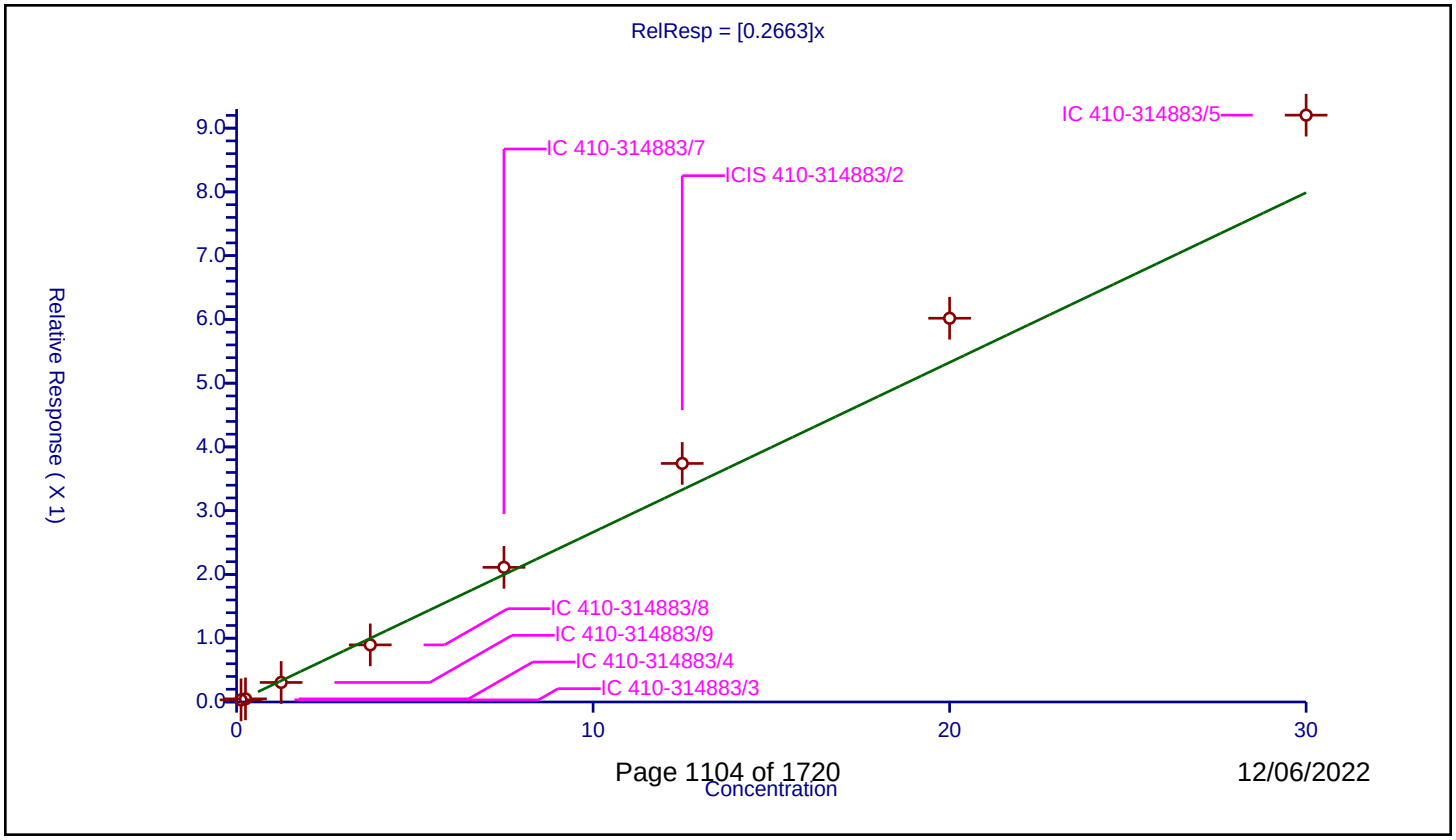
Curve Coefficients

Intercept:	0
Slope:	0.2663

Error Coefficients

Standard Error:	228000
Relative Standard Error:	14.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.977

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.032679	5.0	243431.0	0.261429	Y
2	IC 410-314883/4	0.25	0.049039	5.0	235118.0	0.196157	Y
3	IC 410-314883/9	1.25	0.306415	5.0	254916.0	0.245132	Y
4	IC 410-314883/8	3.75	0.895781	5.0	244552.0	0.238875	Y
5	IC 410-314883/7	7.5	2.111955	5.0	249681.0	0.281594	Y
6	ICIS 410-314883/2	12.5	3.741193	5.0	260175.0	0.299295	Y
7	IC 410-314883/6	20.0	6.01838	5.0	262456.0	0.300919	Y
8	IC 410-314883/5	30.0	9.203836	5.0	251060.0	0.306795	Y



Calibration / Acenaphthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

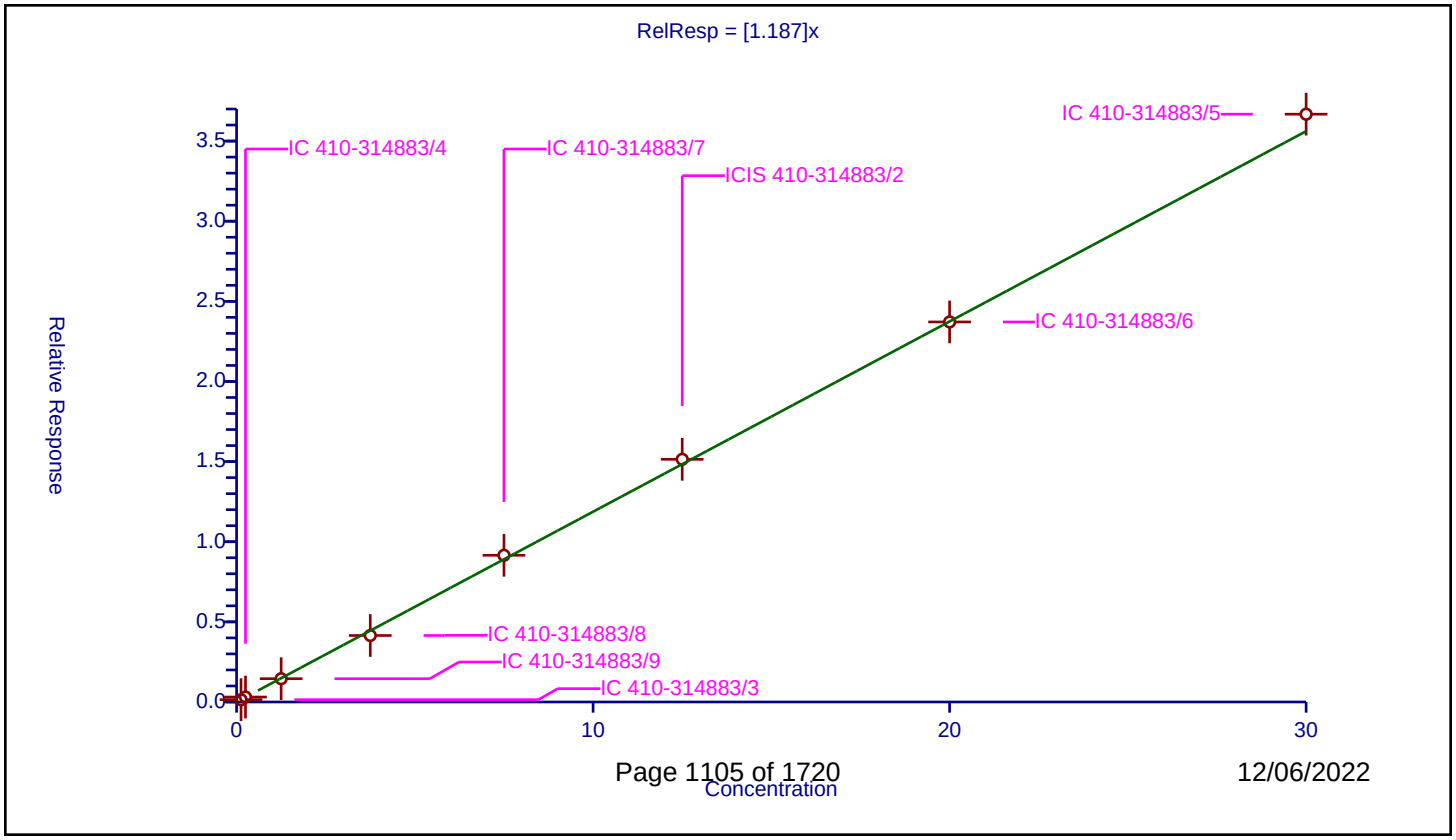
Curve Coefficients

Intercept:	0
Slope:	1.187

Error Coefficients

Standard Error:	912000
Relative Standard Error:	3.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.144107	5.0	243431.0	1.152852	Y
2	IC 410-314883/4	0.25	0.308802	5.0	235118.0	1.23521	Y
3	IC 410-314883/9	1.25	1.453165	5.0	254916.0	1.162532	Y
4	IC 410-314883/8	3.75	4.14879	5.0	244552.0	1.106344	Y
5	IC 410-314883/7	7.5	9.154761	5.0	249681.0	1.220635	Y
6	ICIS 410-314883/2	12.5	15.142558	5.0	260175.0	1.211405	Y
7	IC 410-314883/6	20.0	23.71388	5.0	262456.0	1.185694	Y
8	IC 410-314883/5	30.0	36.677189	5.0	251060.0	1.222573	Y



Calibration / 2,4-Dinitrophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

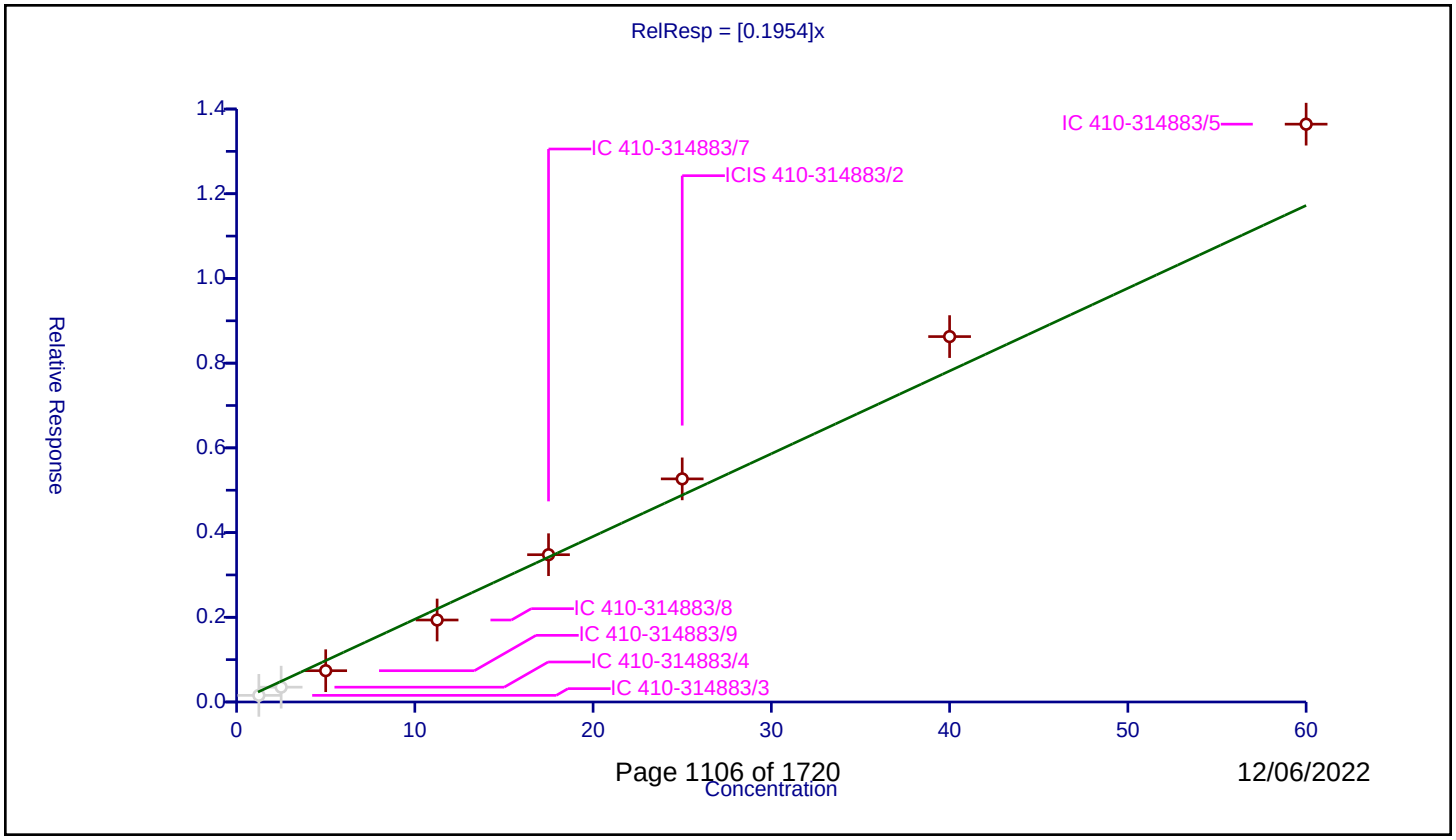
Curve Coefficients

Intercept:	0
Slope:	0.1954

Error Coefficients

Standard Error:	397000
Relative Standard Error:	15.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.966

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	1.25	0.156389	5.0	243431.0	0.125111	N
2	IC 410-314883/4	2.5	0.34942	5.0	235118.0	0.139768	N
3	IC 410-314883/9	5.0	0.738969	5.0	254916.0	0.147794	Y
4	IC 410-314883/8	11.25	1.935805	5.0	244552.0	0.172072	Y
5	IC 410-314883/7	17.5	3.477337	5.0	249681.0	0.198705	Y
6	ICIS 410-314883/2	25.0	5.267205	5.0	260175.0	0.210688	Y
7	IC 410-314883/6	40.0	8.626932	5.0	262456.0	0.215673	Y
8	IC 410-314883/5	60.0	13.642396	5.0	251060.0	0.227373	Y



Calibration / 4-Nitrophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

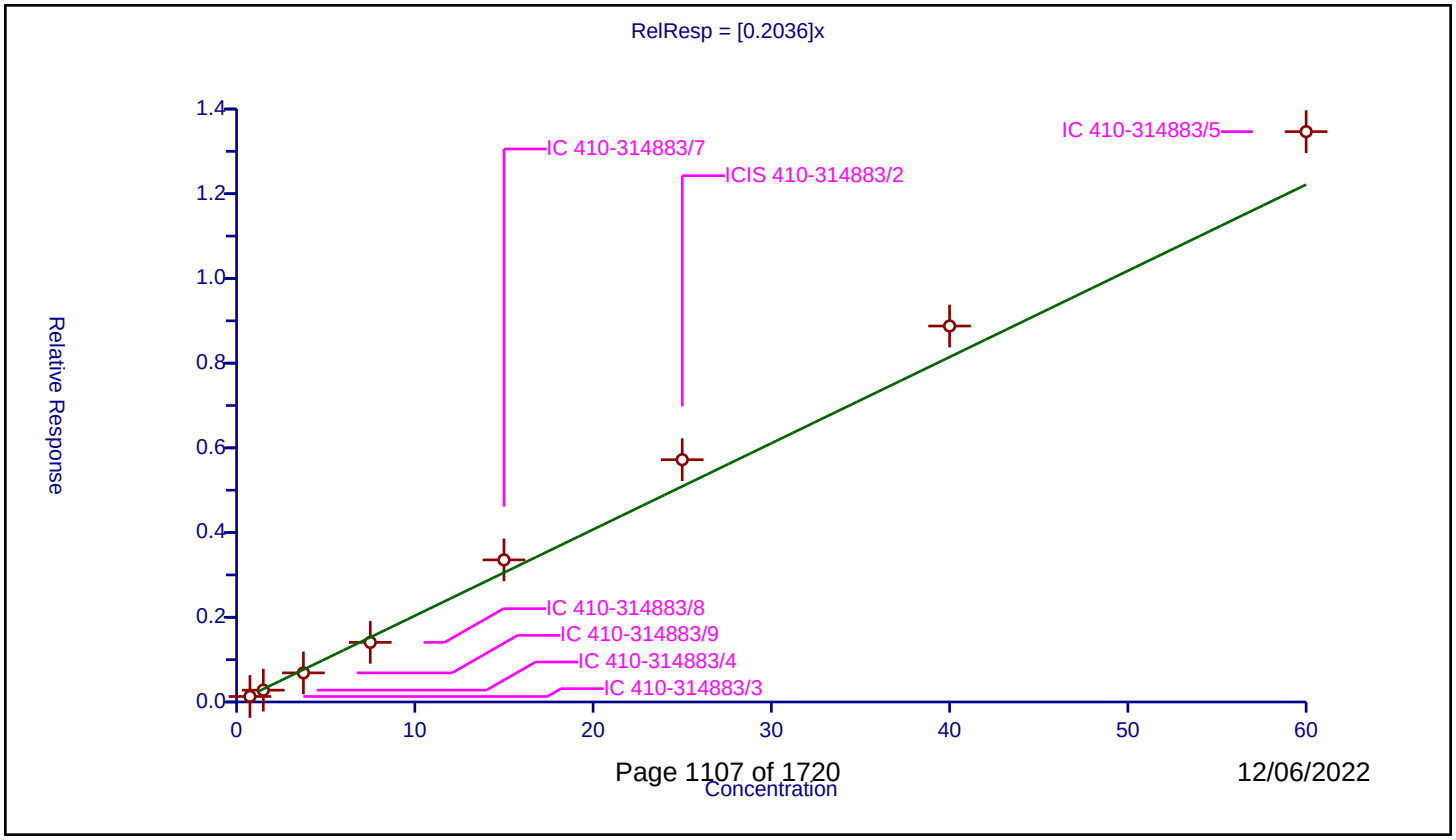
Curve Coefficients

Intercept:	0
Slope:	0.2036

Error Coefficients

Standard Error:	337000
Relative Standard Error:	11.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.75	0.129708	5.0	243431.0	0.172944	Y
2	IC 410-314883/4	1.5	0.27903	5.0	235118.0	0.18602	Y
3	IC 410-314883/9	3.75	0.687403	5.0	254916.0	0.183307	Y
4	IC 410-314883/8	7.5	1.407676	5.0	244552.0	0.18769	Y
5	IC 410-314883/7	15.0	3.354781	5.0	249681.0	0.223652	Y
6	ICIS 410-314883/2	25.0	5.721015	5.0	260175.0	0.228841	Y
7	IC 410-314883/6	40.0	8.876593	5.0	262456.0	0.221915	Y
8	IC 410-314883/5	60.0	13.465865	5.0	251060.0	0.224431	Y



Calibration / Pentachlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

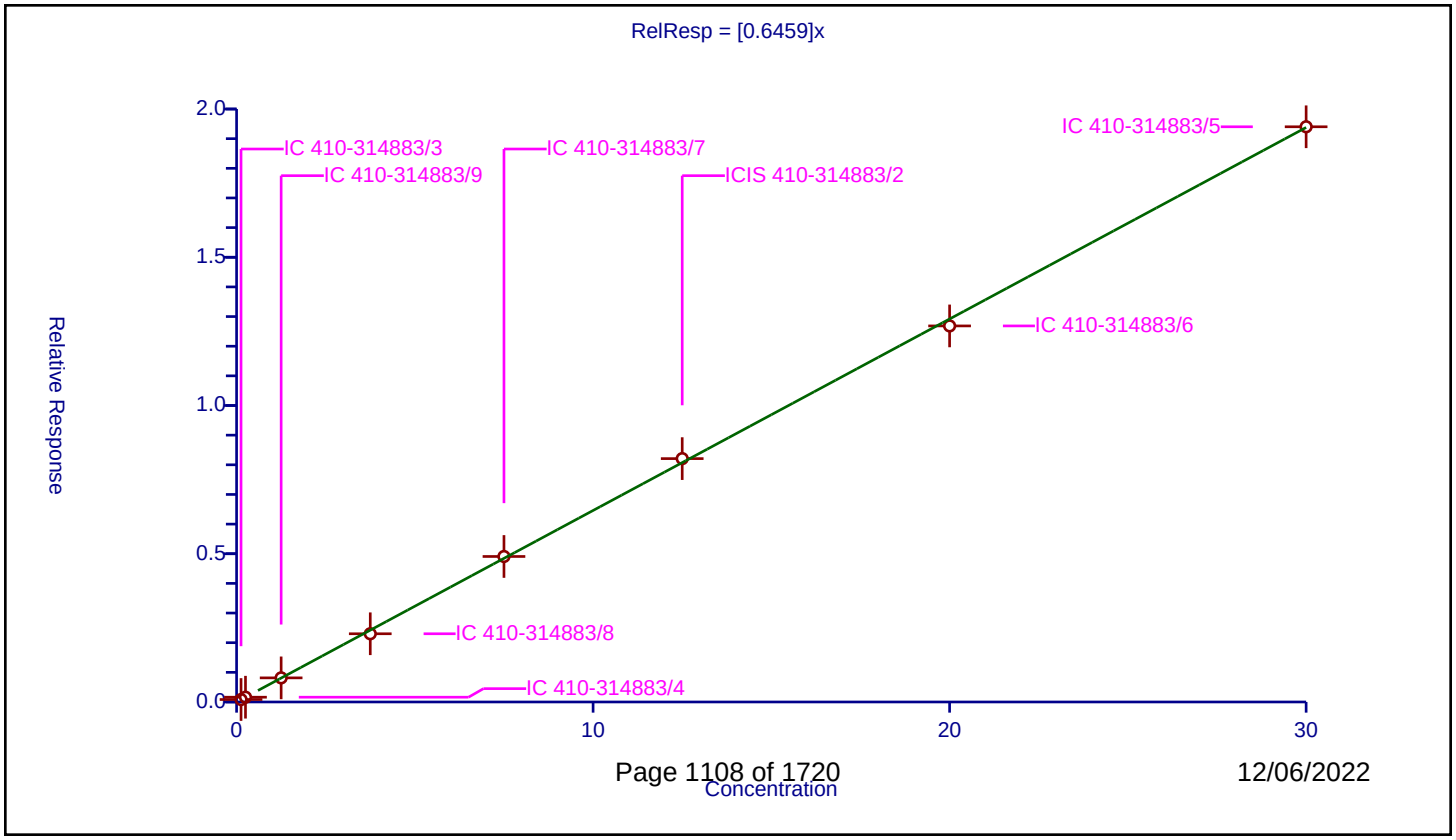
Curve Coefficients

Intercept:	0
Slope:	0.6459

Error Coefficients

Standard Error:	485000
Relative Standard Error:	2.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.083206	5.0	243431.0	0.665651	Y
2	IC 410-314883/4	0.25	0.161323	5.0	235118.0	0.645293	Y
3	IC 410-314883/9	1.25	0.813405	5.0	254916.0	0.650724	Y
4	IC 410-314883/8	3.75	2.301167	5.0	244552.0	0.613645	Y
5	IC 410-314883/7	7.5	4.907542	5.0	249681.0	0.654339	Y
6	ICIS 410-314883/2	12.5	8.208321	5.0	260175.0	0.656666	Y
7	IC 410-314883/6	20.0	12.684298	5.0	262456.0	0.634215	Y
8	IC 410-314883/5	30.0	19.401298	5.0	251060.0	0.64671	Y



Calibration / 2,4-Dinitrotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

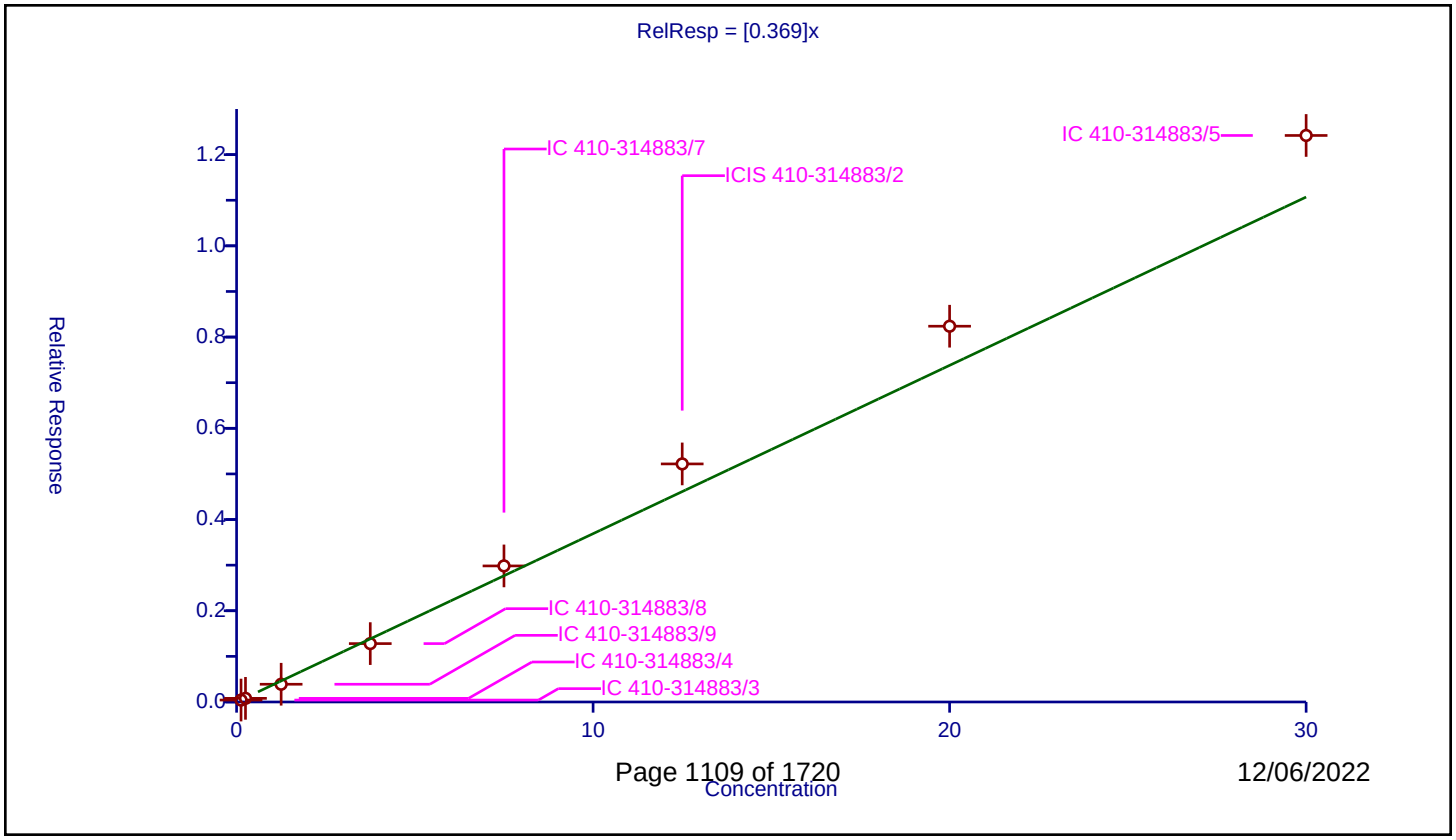
Curve Coefficients

Intercept:	0
Slope:	0.369

Error Coefficients

Standard Error:	311000
Relative Standard Error:	12.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.042373	5.0	243431.0	0.338987	Y
2	IC 410-314883/4	0.25	0.079768	5.0	235118.0	0.319074	Y
3	IC 410-314883/9	1.25	0.389148	5.0	254916.0	0.311318	Y
4	IC 410-314883/8	3.75	1.280239	5.0	244552.0	0.341397	Y
5	IC 410-314883/7	7.5	2.983287	5.0	249681.0	0.397772	Y
6	ICIS 410-314883/2	12.5	5.219275	5.0	260175.0	0.417542	Y
7	IC 410-314883/6	20.0	8.237971	5.0	262456.0	0.411899	Y
8	IC 410-314883/5	30.0	12.420238	5.0	251060.0	0.414008	Y



Calibration / Dibenzofuran

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

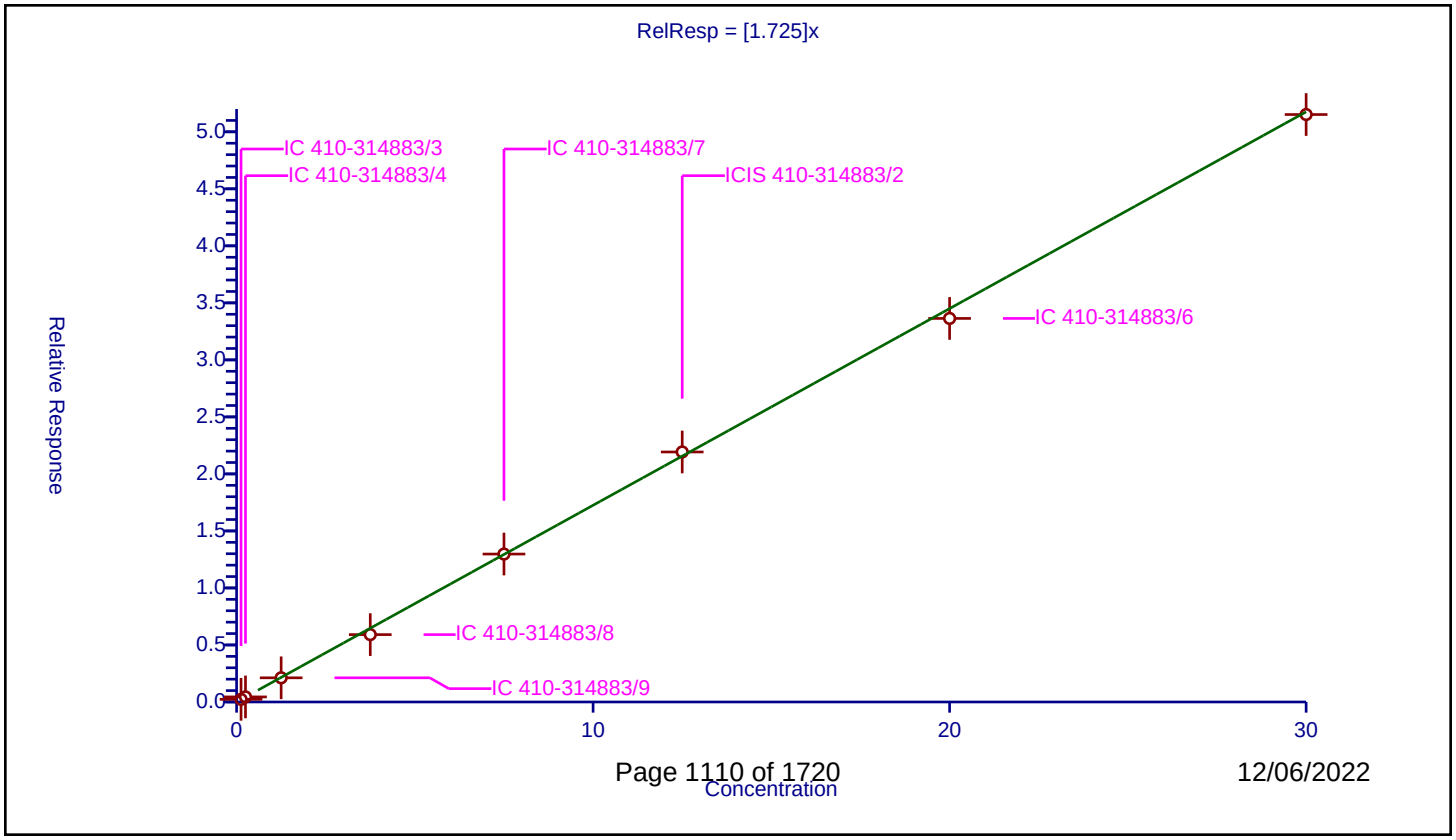
Curve Coefficients

Intercept:	0
Slope:	1.725

Error Coefficients

Standard Error:	1290000
Relative Standard Error:	4.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.232818	5.0	243431.0	1.86254	Y
2	IC 410-314883/4	0.25	0.445946	5.0	235118.0	1.783785	Y
3	IC 410-314883/9	1.25	2.119698	5.0	254916.0	1.695759	Y
4	IC 410-314883/8	3.75	5.907373	5.0	244552.0	1.5753	Y
5	IC 410-314883/7	7.5	12.972453	5.0	249681.0	1.72966	Y
6	ICIS 410-314883/2	12.5	21.925492	5.0	260175.0	1.754039	Y
7	IC 410-314883/6	20.0	33.635295	5.0	262456.0	1.681765	Y
8	IC 410-314883/5	30.0	51.515833	5.0	251060.0	1.717194	Y



Calibration / 1-Naphthylamine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

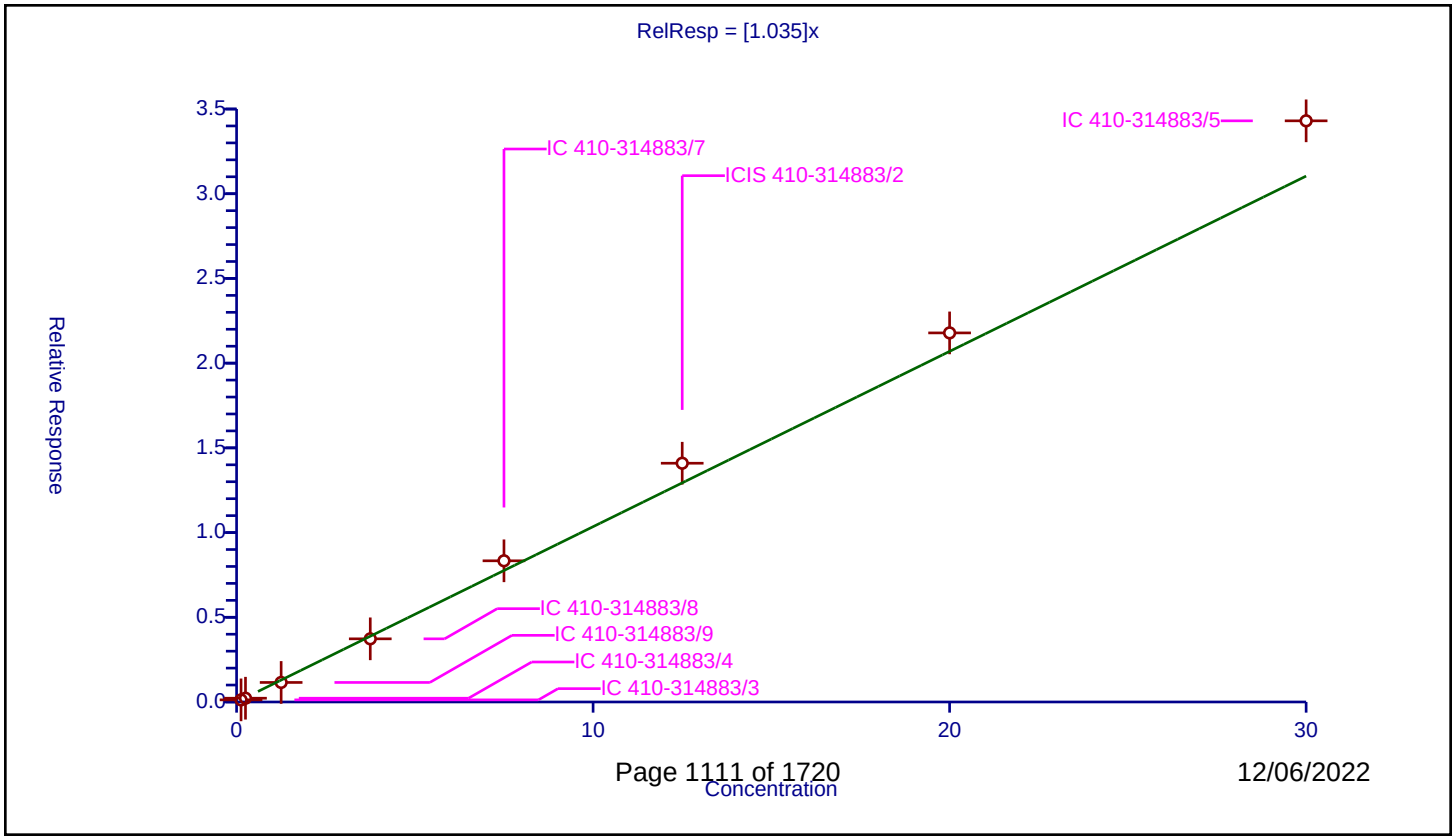
Curve Coefficients

Intercept:	0
Slope:	1.035

Error Coefficients

Standard Error:	847000
Relative Standard Error:	9.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.124964	5.0	243431.0	0.999708	Y
2	IC 410-314883/4	0.25	0.22242	5.0	235118.0	0.889681	Y
3	IC 410-314883/9	1.25	1.1534	5.0	254916.0	0.92272	Y
4	IC 410-314883/8	3.75	3.728021	5.0	244552.0	0.994139	Y
5	IC 410-314883/7	7.5	8.334214	5.0	249681.0	1.111229	Y
6	ICIS 410-314883/2	12.5	14.093476	5.0	260175.0	1.127478	Y
7	IC 410-314883/6	20.0	21.78529	5.0	262456.0	1.089264	Y
8	IC 410-314883/5	30.0	34.30196	5.0	251060.0	1.143399	Y



Calibration / 2,3,4,6-Tetrachlorophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

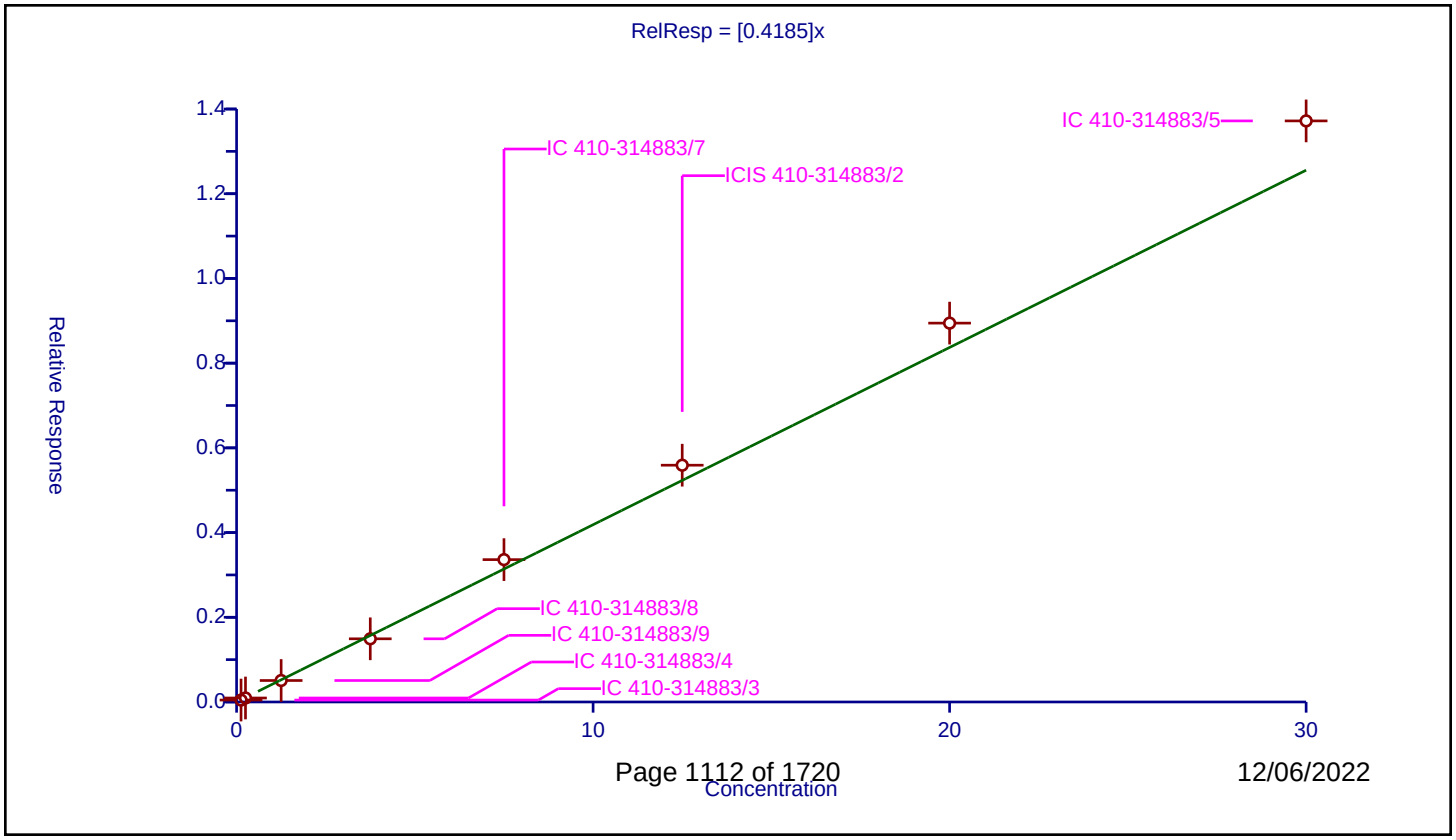
Curve Coefficients

Intercept:	0
Slope:	0.4185

Error Coefficients

Standard Error:	341000
Relative Standard Error:	8.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.045886	5.0	243431.0	0.367086	Y
2	IC 410-314883/4	0.25	0.094357	5.0	235118.0	0.377428	Y
3	IC 410-314883/9	1.25	0.507442	5.0	254916.0	0.405953	Y
4	IC 410-314883/8	3.75	1.491666	5.0	244552.0	0.397778	Y
5	IC 410-314883/7	7.5	3.361249	5.0	249681.0	0.448167	Y
6	ICIS 410-314883/2	12.5	5.59043	5.0	260175.0	0.447234	Y
7	IC 410-314883/6	20.0	8.944833	5.0	262456.0	0.447242	Y
8	IC 410-314883/5	30.0	13.71923	5.0	251060.0	0.457308	Y



Calibration / 2-Naphthylamine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

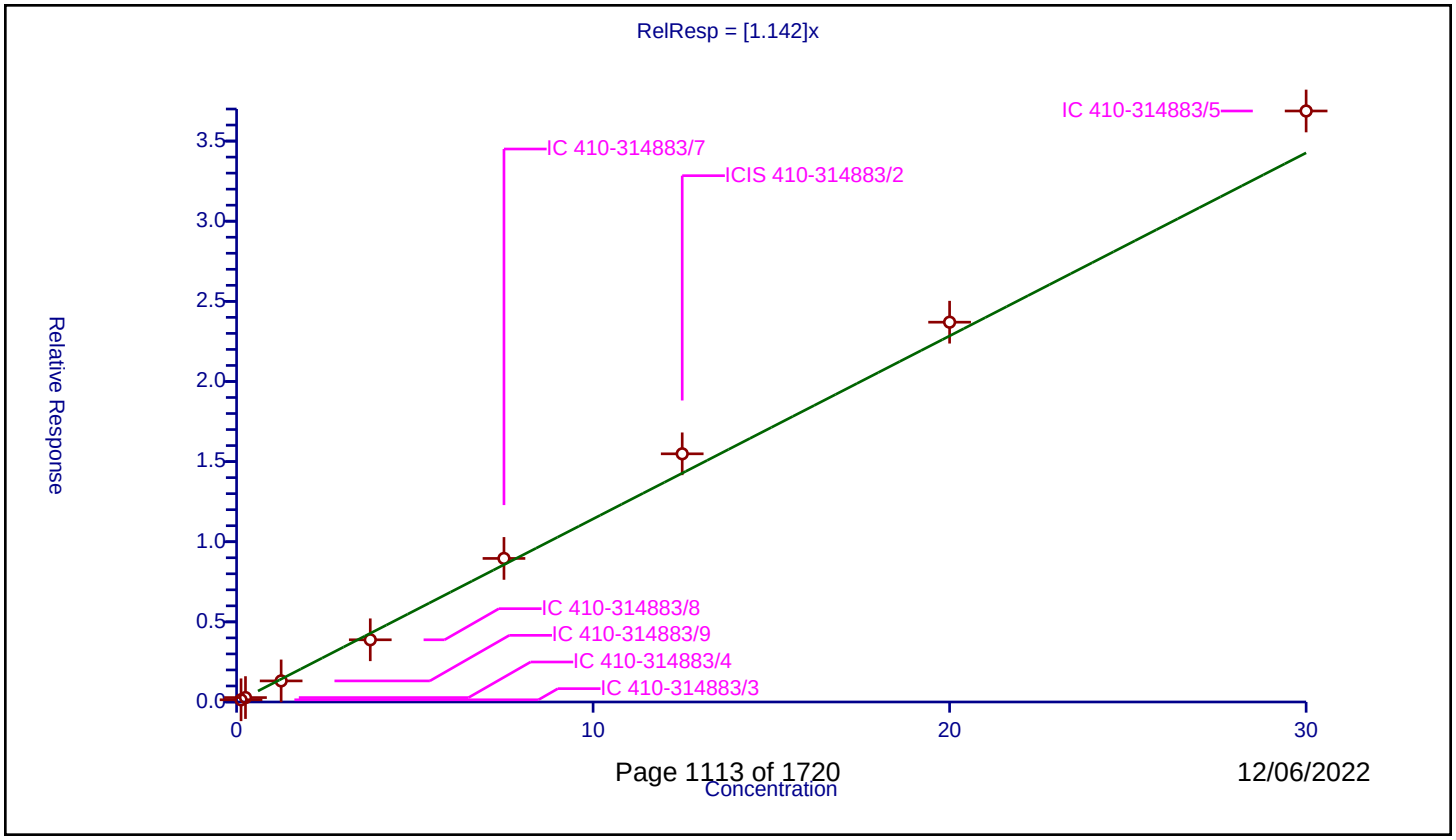
Curve Coefficients

Intercept:	0
Slope:	1.142

Error Coefficients

Standard Error:	915000
Relative Standard Error:	7.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.137472	5.0	243431.0	1.099778	Y
2	IC 410-314883/4	0.25	0.275819	5.0	235118.0	1.103276	Y
3	IC 410-314883/9	1.25	1.314806	5.0	254916.0	1.051845	Y
4	IC 410-314883/8	3.75	3.88034	5.0	244552.0	1.034757	Y
5	IC 410-314883/7	7.5	8.95779	5.0	249681.0	1.194372	Y
6	ICIS 410-314883/2	12.5	15.486173	5.0	260175.0	1.238894	Y
7	IC 410-314883/6	20.0	23.69902	5.0	262456.0	1.184951	Y
8	IC 410-314883/5	30.0	36.8773	5.0	251060.0	1.229243	Y



Calibration / Diethyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

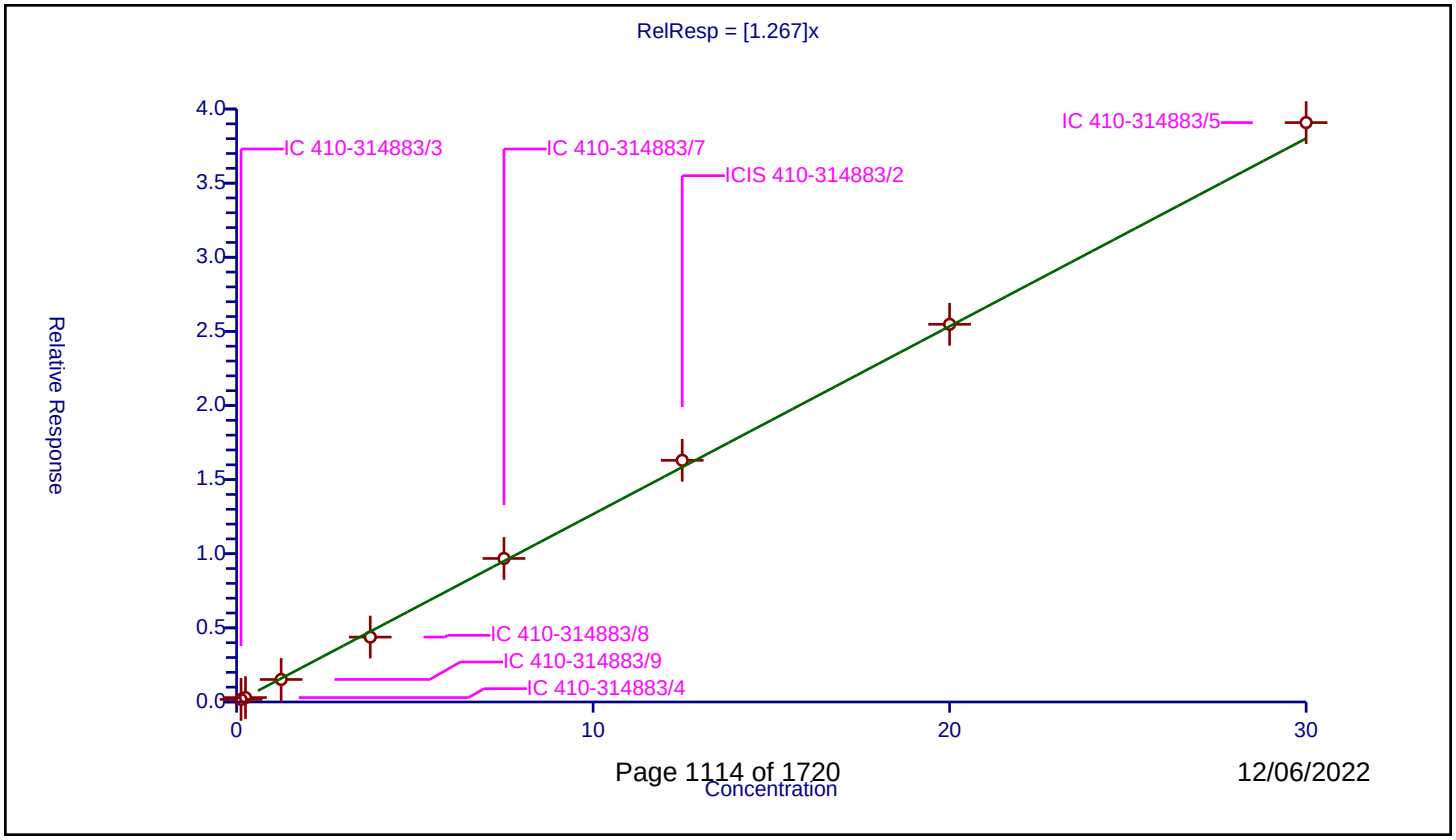
Curve Coefficients

Intercept:	0
Slope:	1.267

Error Coefficients

Standard Error:	974000
Relative Standard Error:	5.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.174464	5.0	243431.0	1.395714	Y
2	IC 410-314883/4	0.25	0.297	5.0	235118.0	1.187999	Y
3	IC 410-314883/9	1.25	1.518304	5.0	254916.0	1.214643	Y
4	IC 410-314883/8	3.75	4.378169	5.0	244552.0	1.167512	Y
5	IC 410-314883/7	7.5	9.682114	5.0	249681.0	1.290949	Y
6	ICIS 410-314883/2	12.5	16.302085	5.0	260175.0	1.304167	Y
7	IC 410-314883/6	20.0	25.477928	5.0	262456.0	1.273896	Y
8	IC 410-314883/5	30.0	39.084641	5.0	251060.0	1.302821	Y



Calibration / Thionazin

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

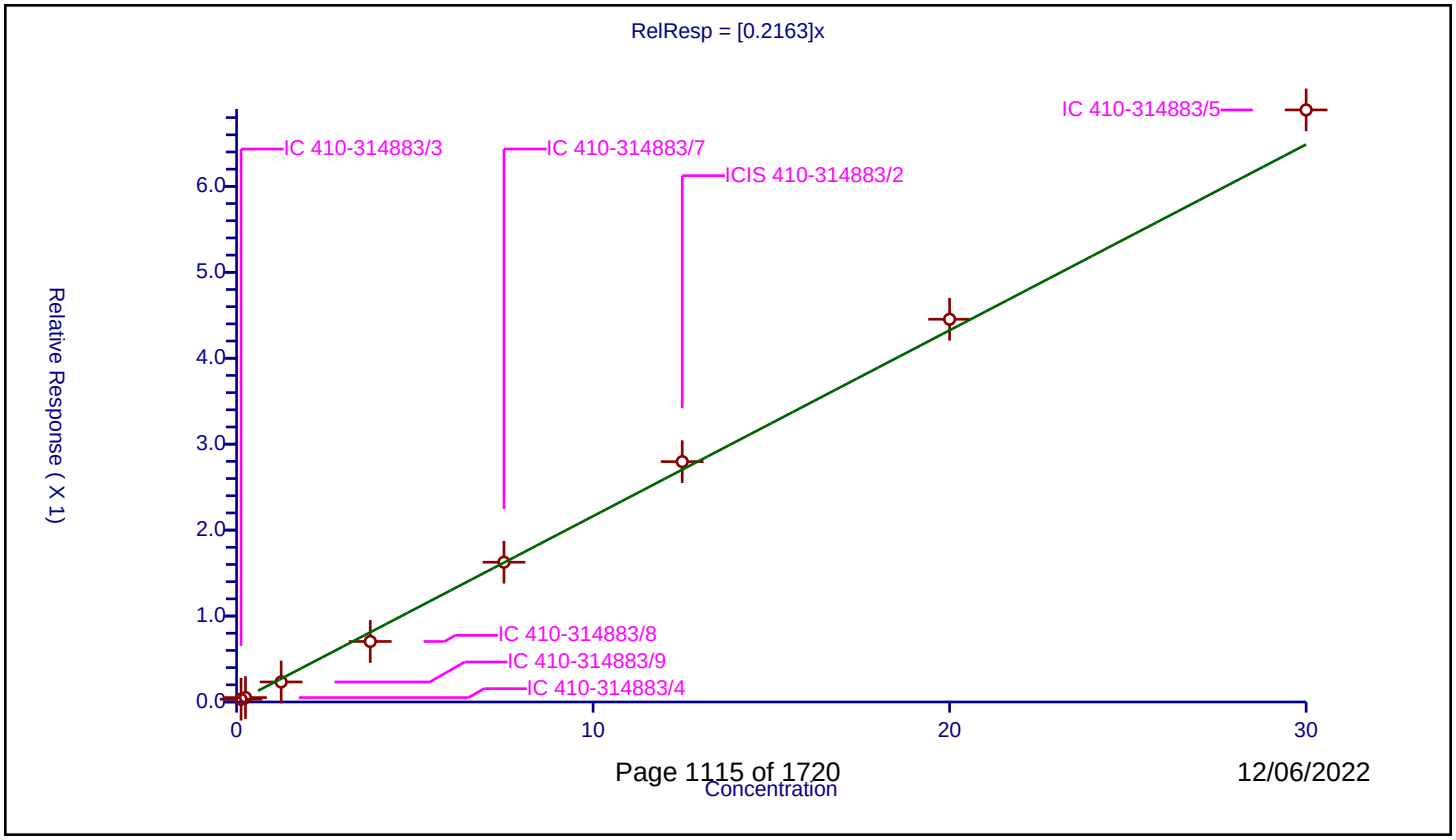
Curve Coefficients

Intercept:	0
Slope:	0.2163

Error Coefficients

Standard Error:	170000
Relative Standard Error:	10.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.032165	5.0	243431.0	0.257321	Y
2	IC 410-314883/4	0.25	0.0514	5.0	235118.0	0.205599	Y
3	IC 410-314883/9	1.25	0.232979	5.0	254916.0	0.186383	Y
4	IC 410-314883/8	3.75	0.704206	5.0	244552.0	0.187788	Y
5	IC 410-314883/7	7.5	1.626555	5.0	249681.0	0.216874	Y
6	ICIS 410-314883/2	12.5	2.796752	5.0	260175.0	0.22374	Y
7	IC 410-314883/6	20.0	4.453642	5.0	262456.0	0.222682	Y
8	IC 410-314883/5	30.0	6.889548	5.0	251060.0	0.229652	Y



Calibration / 4-Chlorophenyl phenyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

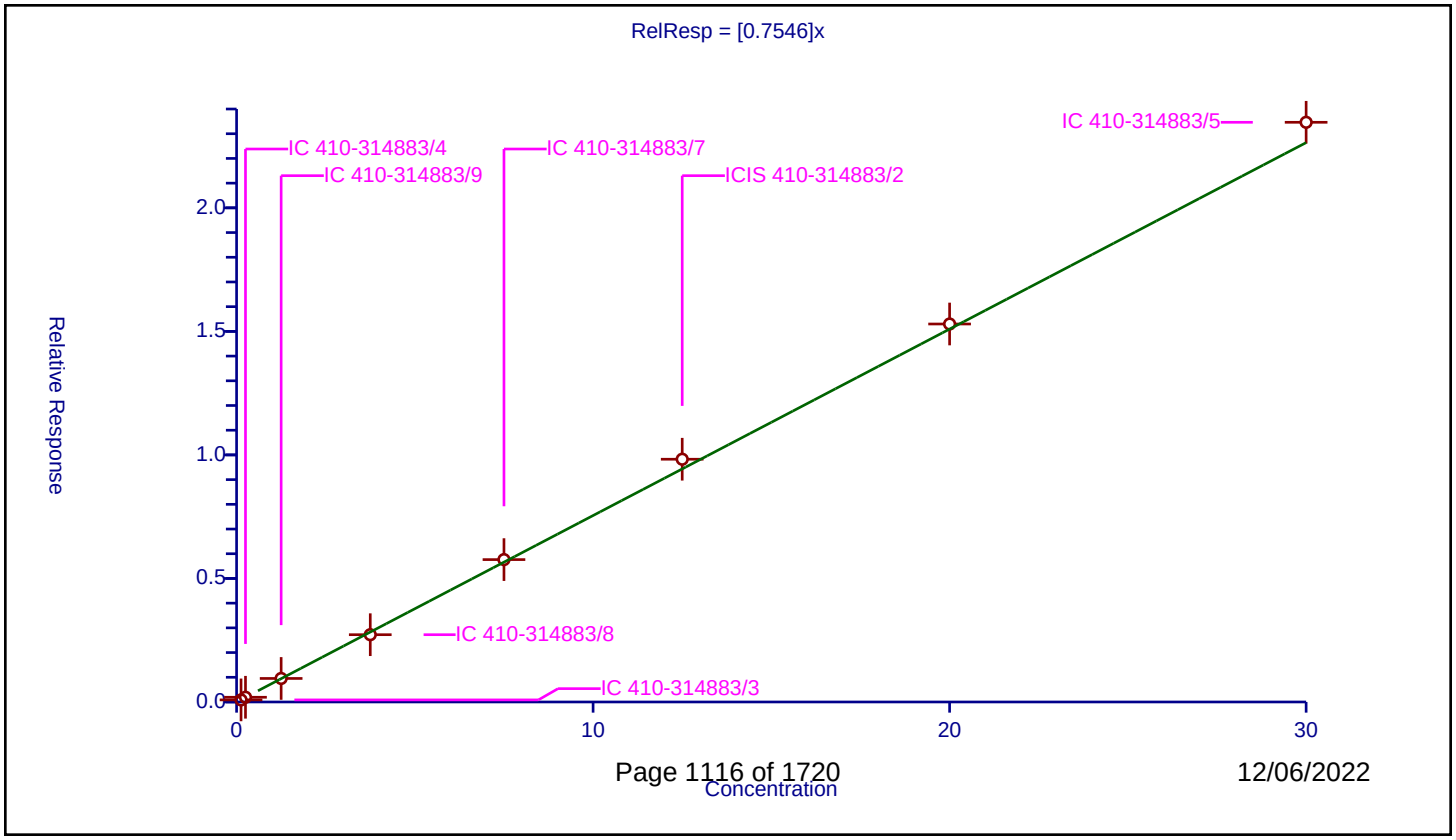
Curve Coefficients

Intercept:	0
Slope:	0.7546

Error Coefficients

Standard Error:	585000
Relative Standard Error:	4.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.085137	5.0	243431.0	0.681096	Y
2	IC 410-314883/4	0.25	0.191627	5.0	235118.0	0.766509	Y
3	IC 410-314883/9	1.25	0.952353	5.0	254916.0	0.761882	Y
4	IC 410-314883/8	3.75	2.723184	5.0	244552.0	0.726182	Y
5	IC 410-314883/7	7.5	5.763434	5.0	249681.0	0.768458	Y
6	ICIS 410-314883/2	12.5	9.825444	5.0	260175.0	0.786036	Y
7	IC 410-314883/6	20.0	15.298107	5.0	262456.0	0.764905	Y
8	IC 410-314883/5	30.0	23.462141	5.0	251060.0	0.782071	Y



Calibration / Fluorene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

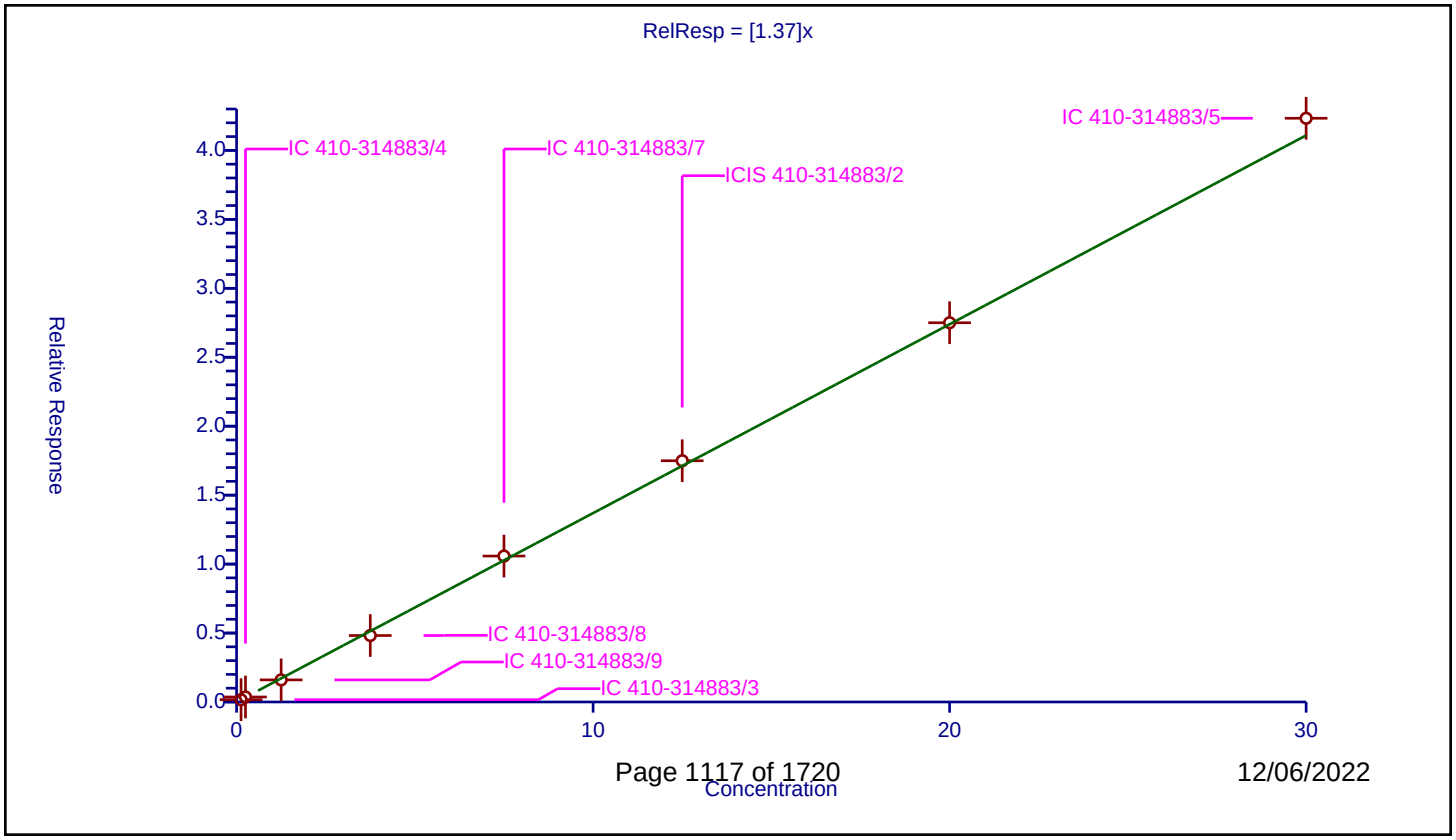
Curve Coefficients

Intercept:	0
Slope:	1.37

Error Coefficients

Standard Error:	1050000
Relative Standard Error:	4.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.167625	5.0	243431.0	1.340996	Y
2	IC 410-314883/4	0.25	0.363243	5.0	235118.0	1.452973	Y
3	IC 410-314883/9	1.25	1.601488	5.0	254916.0	1.281191	Y
4	IC 410-314883/8	3.75	4.819302	5.0	244552.0	1.285147	Y
5	IC 410-314883/7	7.5	10.581702	5.0	249681.0	1.410894	Y
6	ICIS 410-314883/2	12.5	17.493841	5.0	260175.0	1.399507	Y
7	IC 410-314883/6	20.0	27.501505	5.0	262456.0	1.375075	Y
8	IC 410-314883/5	30.0	42.328029	5.0	251060.0	1.410934	Y



Calibration / 4-Nitroaniline

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

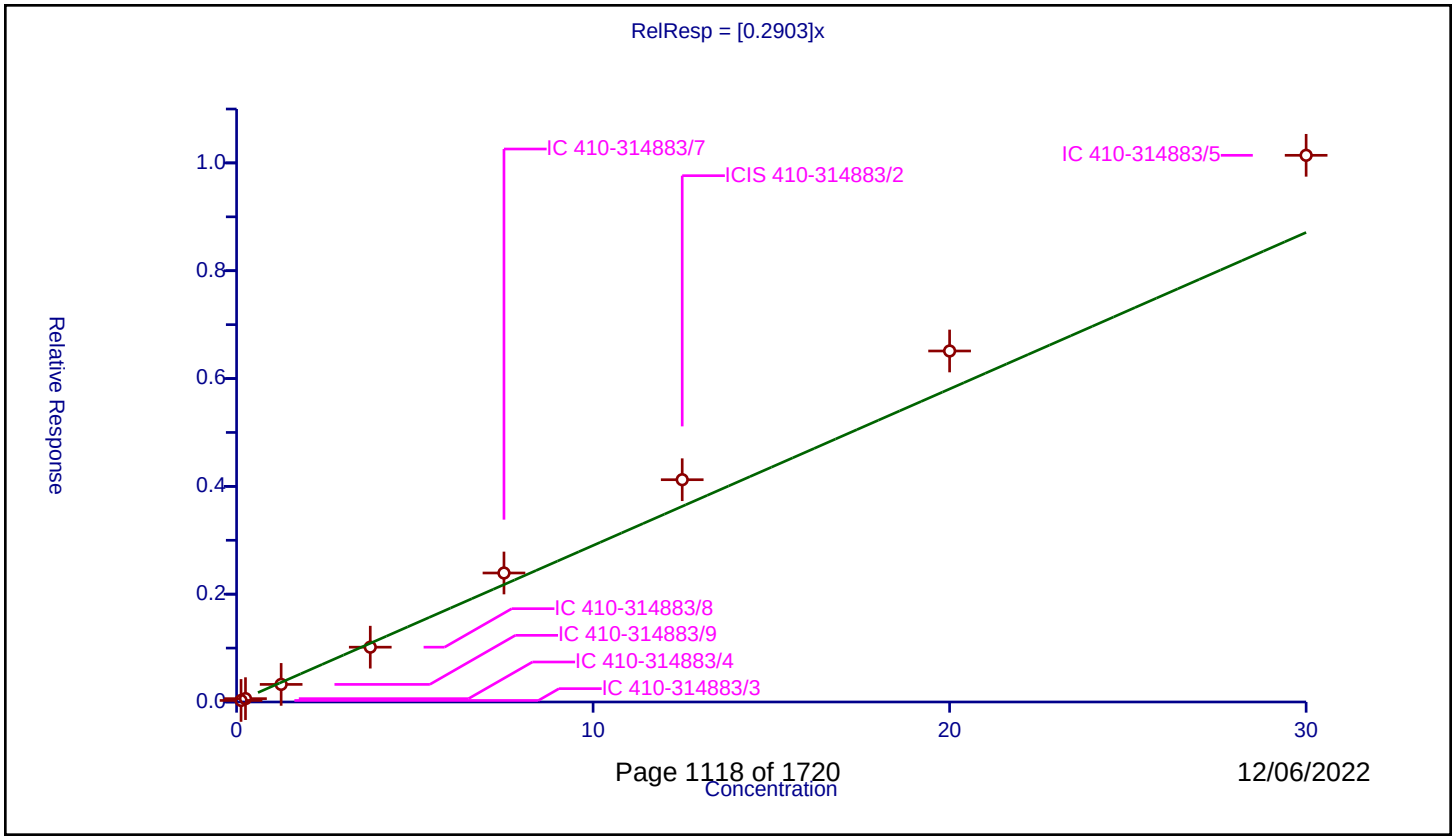
Curve Coefficients

Intercept:	0
Slope:	0.2903

Error Coefficients

Standard Error:	250000
Relative Standard Error:	14.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.977

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.028612	5.0	243431.0	0.228894	Y
2	IC 410-314883/4	0.25	0.062224	5.0	235118.0	0.248896	Y
3	IC 410-314883/9	1.25	0.32646	5.0	254916.0	0.261168	Y
4	IC 410-314883/8	3.75	1.016819	5.0	244552.0	0.271152	Y
5	IC 410-314883/7	7.5	2.392773	5.0	249681.0	0.319036	Y
6	ICIS 410-314883/2	12.5	4.123571	5.0	260175.0	0.329886	Y
7	IC 410-314883/6	20.0	6.511472	5.0	262456.0	0.325574	Y
8	IC 410-314883/5	30.0	10.141301	5.0	251060.0	0.338043	Y



Calibration / N-Nitro-o-toluidine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

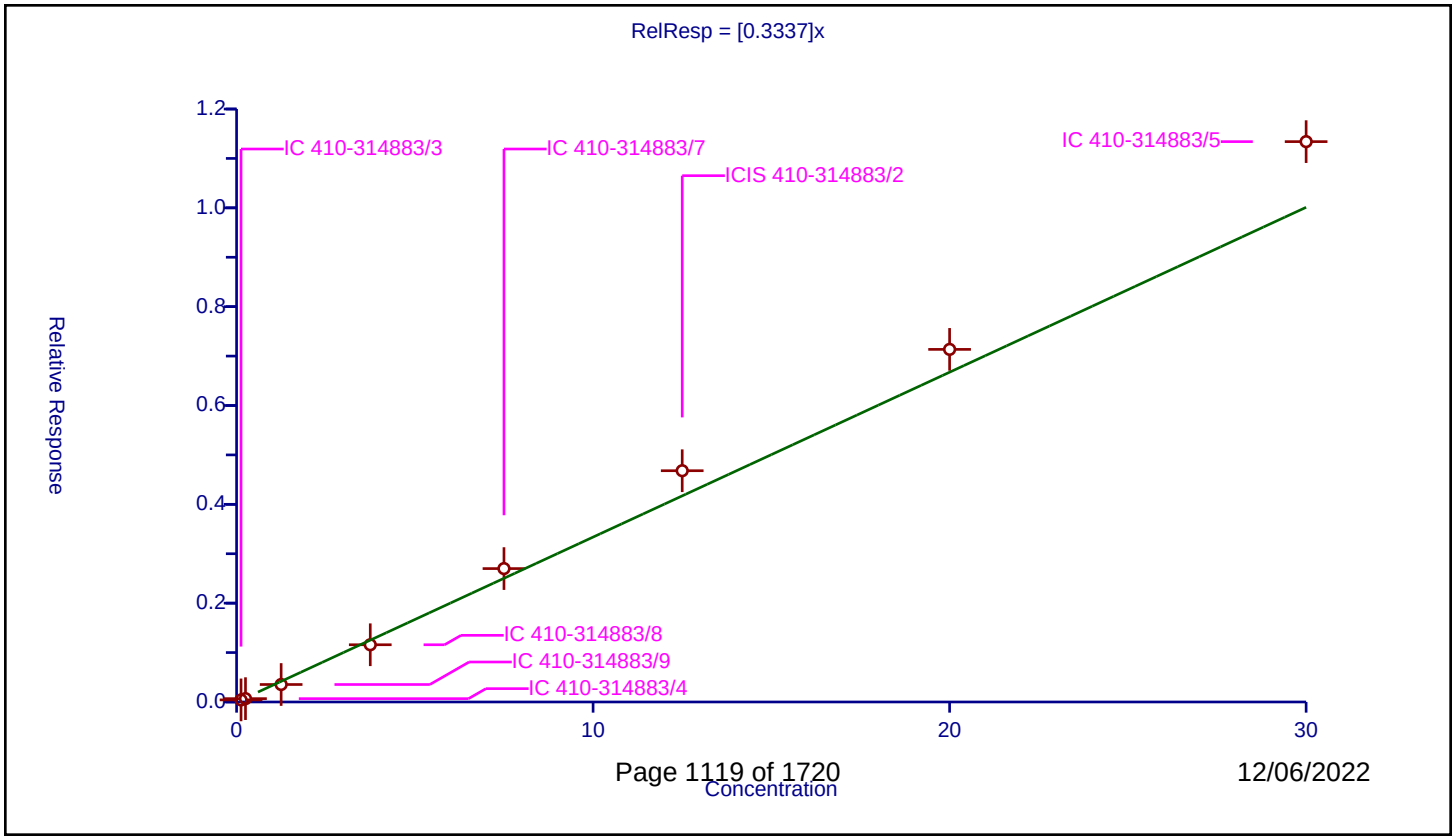
Curve Coefficients

Intercept:	0
Slope:	0.3337

Error Coefficients

Standard Error:	279000
Relative Standard Error:	12.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.04225	5.0	243431.0	0.338001	Y
2	IC 410-314883/4	0.25	0.067689	5.0	235118.0	0.270758	Y
3	IC 410-314883/9	1.25	0.353567	5.0	254916.0	0.282854	Y
4	IC 410-314883/8	3.75	1.158138	5.0	244552.0	0.308837	Y
5	IC 410-314883/7	7.5	2.699585	5.0	249681.0	0.359945	Y
6	ICIS 410-314883/2	12.5	4.680215	5.0	260175.0	0.374417	Y
7	IC 410-314883/6	20.0	7.135558	5.0	262456.0	0.356778	Y
8	IC 410-314883/5	30.0	11.340138	5.0	251060.0	0.378005	Y



Calibration / 4,6-Dinitro-2-methylphenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

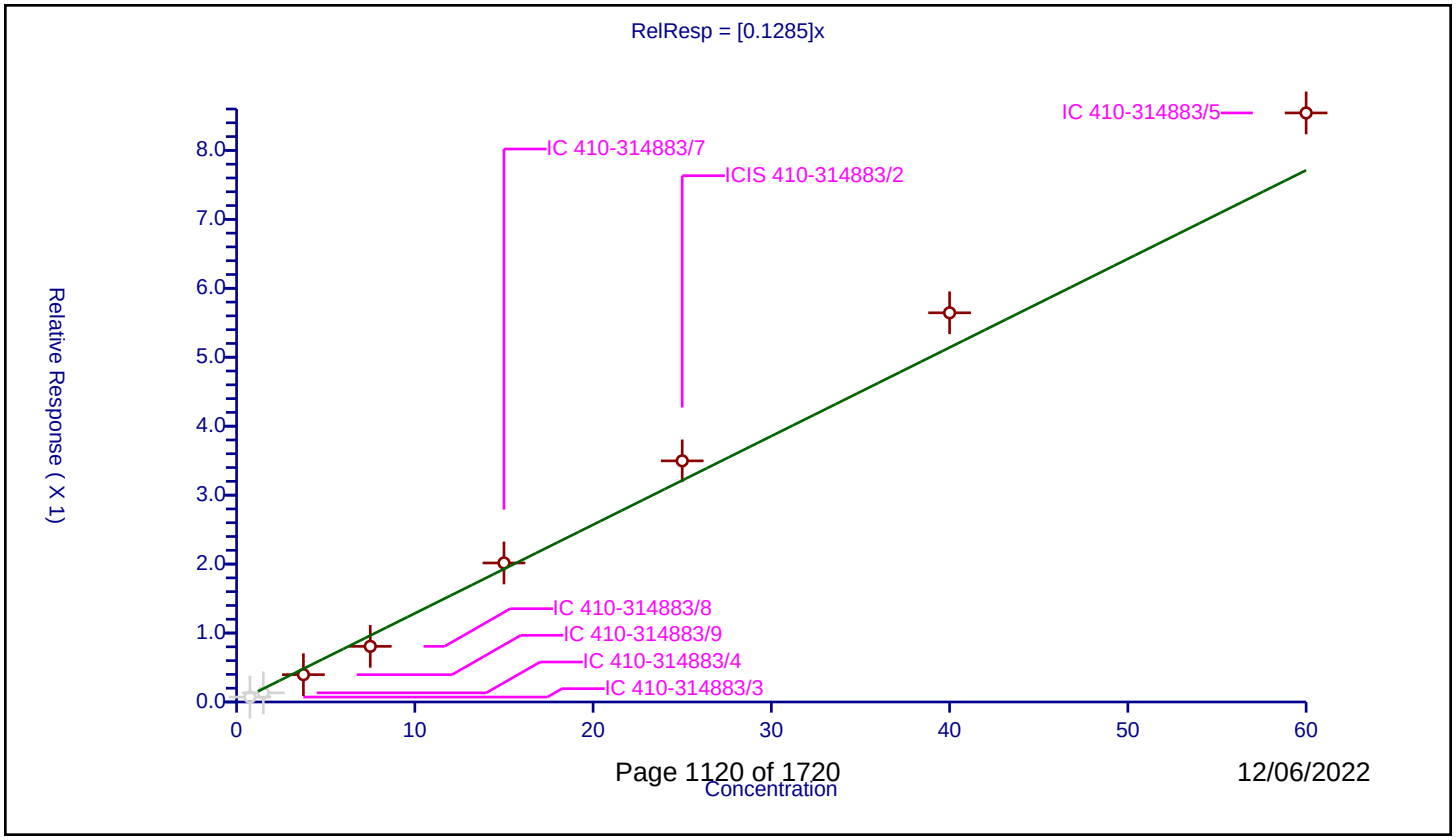
Curve Coefficients

Intercept:	0
Slope:	0.1285

Error Coefficients

Standard Error:	509000
Relative Standard Error:	13.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.975

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.75	0.07124	5.0	490662.0	0.094987	N
2	IC 410-314883/4	1.5	0.132971	5.0	470704.0	0.088647	N
3	IC 410-314883/9	3.75	0.396655	5.0	523389.0	0.105775	Y
4	IC 410-314883/8	7.5	0.807119	5.0	506053.0	0.107616	Y
5	IC 410-314883/7	15.0	2.016417	5.0	496244.0	0.134428	Y
6	ICIS 410-314883/2	25.0	3.497303	5.0	523765.0	0.139892	Y
7	IC 410-314883/6	40.0	5.64434	5.0	517475.0	0.141109	Y
8	IC 410-314883/5	60.0	8.543114	5.0	513894.0	0.142385	Y



12/06/2022

Calibration / N-Nitrosodiphenylamine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

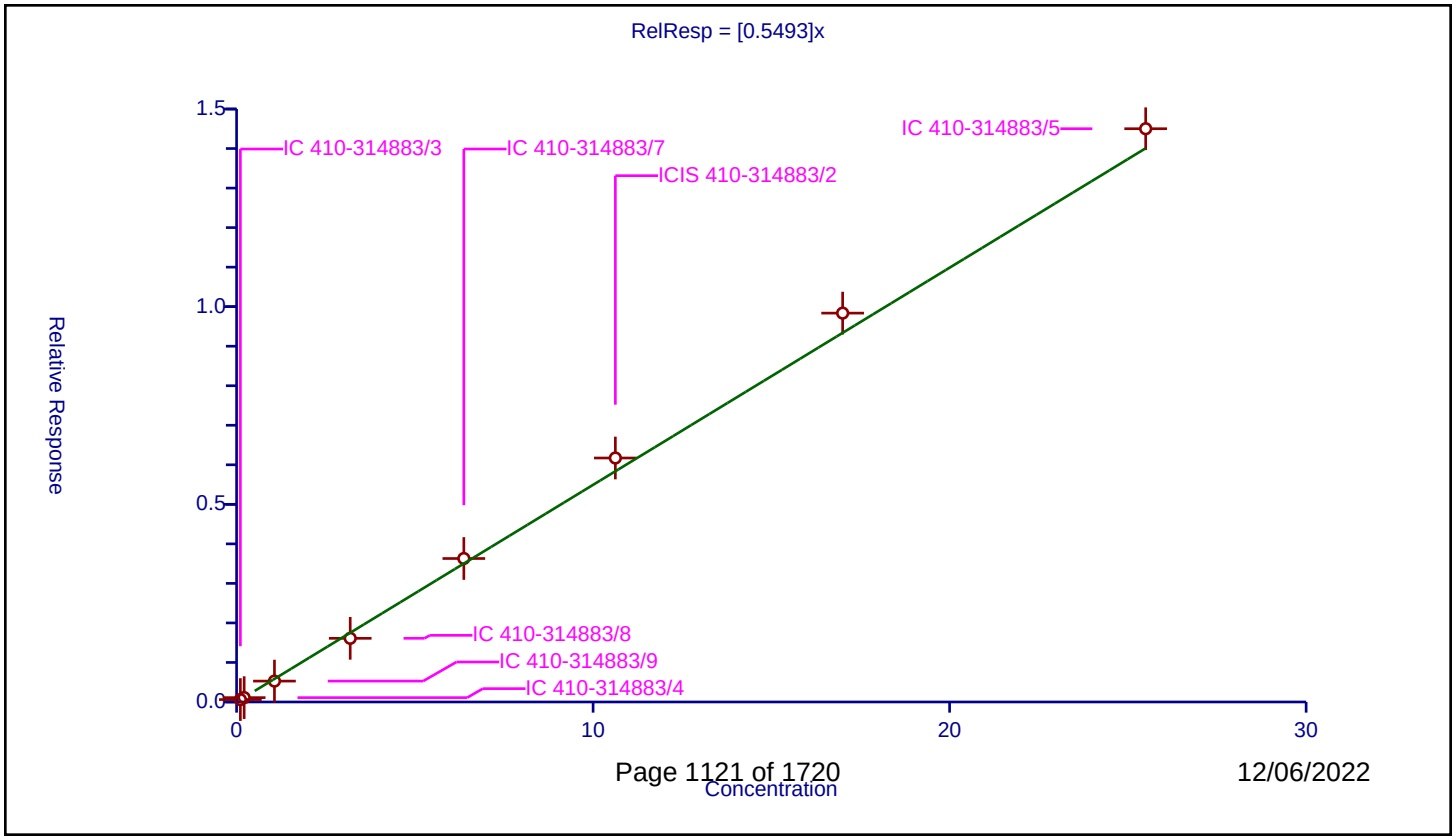
Curve Coefficients

Intercept:	0
Slope:	0.5493

Error Coefficients

Standard Error:	740000
Relative Standard Error:	6.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.10625	0.060999	5.0	490662.0	0.57411	Y
2	IC 410-314883/4	0.2125	0.11043	5.0	470704.0	0.519672	Y
3	IC 410-314883/9	1.0625	0.528813	5.0	523389.0	0.497707	Y
4	IC 410-314883/8	3.1875	1.610691	5.0	506053.0	0.505315	Y
5	IC 410-314883/7	6.375	3.629535	5.0	496244.0	0.569339	Y
6	ICIS 410-314883/2	10.625	6.171995	5.0	523765.0	0.580894	Y
7	IC 410-314883/6	17.0	9.837132	5.0	517475.0	0.578655	Y
8	IC 410-314883/5	25.5	14.501171	5.0	513894.0	0.568673	Y



Calibration / 1,2-Diphenylhydrazine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

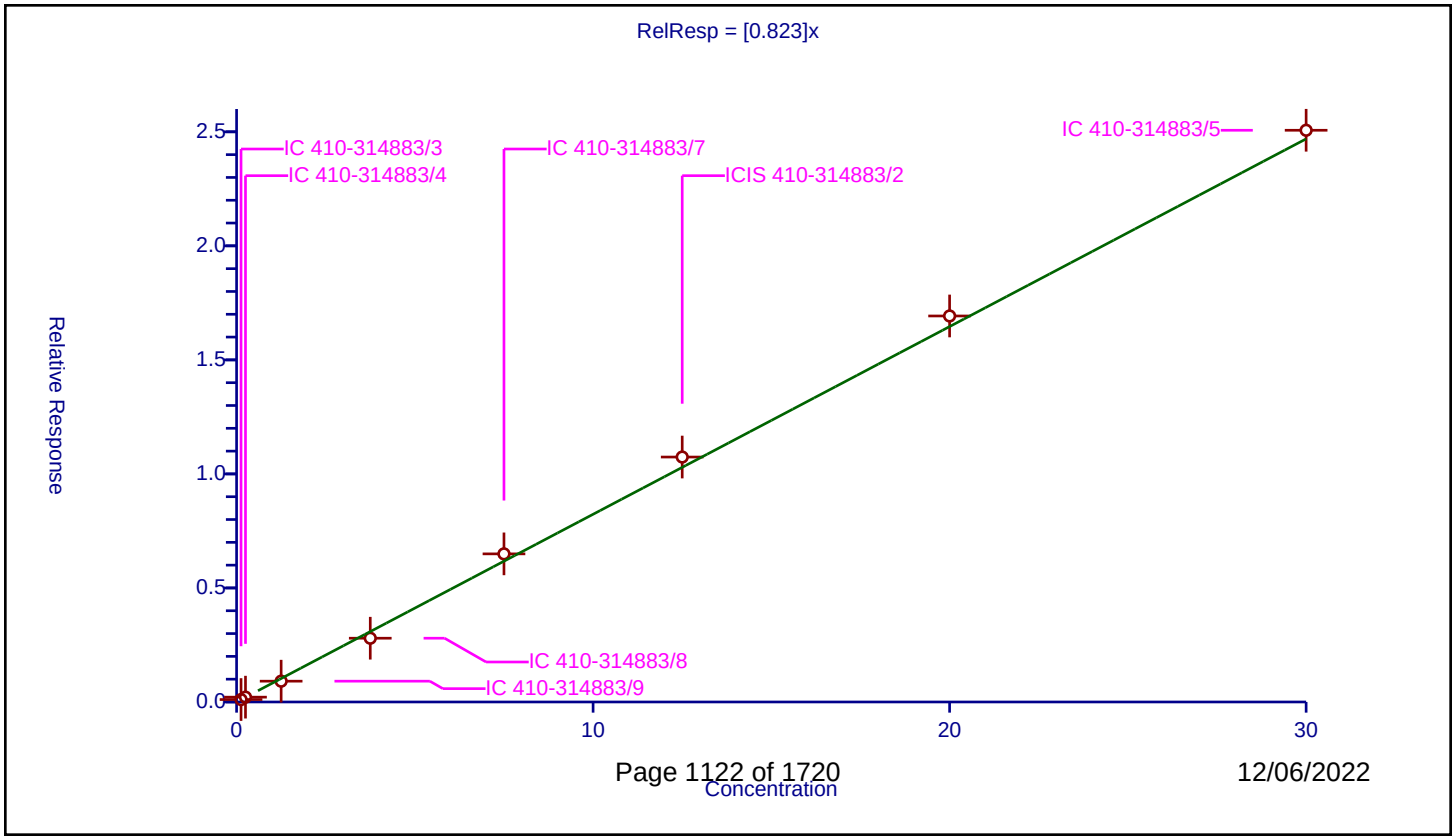
Curve Coefficients

Intercept:	0
Slope:	0.823

Error Coefficients

Standard Error:	1280000
Relative Standard Error:	6.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.106896	5.0	490662.0	0.855171	Y
2	IC 410-314883/4	0.25	0.211694	5.0	470704.0	0.846774	Y
3	IC 410-314883/9	1.25	0.912037	5.0	523389.0	0.729629	Y
4	IC 410-314883/8	3.75	2.796189	5.0	506053.0	0.74565	Y
5	IC 410-314883/7	7.5	6.494497	5.0	496244.0	0.865933	Y
6	ICIS 410-314883/2	12.5	10.740122	5.0	523765.0	0.85921	Y
7	IC 410-314883/6	20.0	16.925736	5.0	517475.0	0.846287	Y
8	IC 410-314883/5	30.0	25.067533	5.0	513894.0	0.835584	Y



Calibration / 2,4,6-Tribromophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

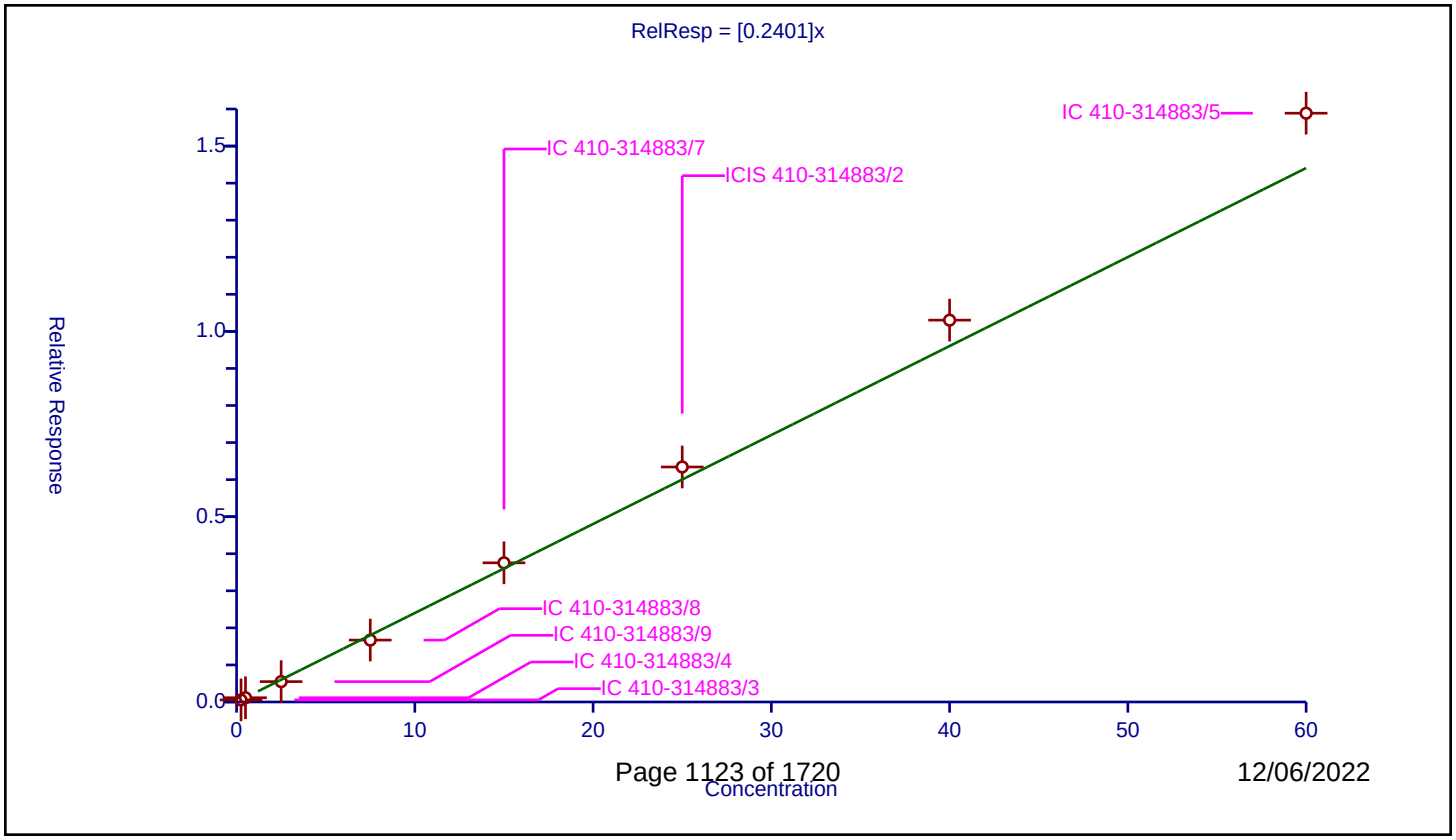
Curve Coefficients

Intercept:	0
Slope:	0.2401

Error Coefficients

Standard Error:	393000
Relative Standard Error:	7.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.25	0.055704	5.0	243431.0	0.222815	Y
2	IC 410-314883/4	0.5	0.114559	5.0	235118.0	0.229119	Y
3	IC 410-314883/9	2.5	0.54971	5.0	254916.0	0.219884	Y
4	IC 410-314883/8	7.5	1.670647	5.0	244552.0	0.222753	Y
5	IC 410-314883/7	15.0	3.754631	5.0	249681.0	0.250309	Y
6	ICIS 410-314883/2	25.0	6.341001	5.0	260175.0	0.25364	Y
7	IC 410-314883/6	40.0	10.30306	5.0	262456.0	0.257577	Y
8	IC 410-314883/5	60.0	15.887278	5.0	251060.0	0.264788	Y



12/06/2022

Calibration / Sulfotepp

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

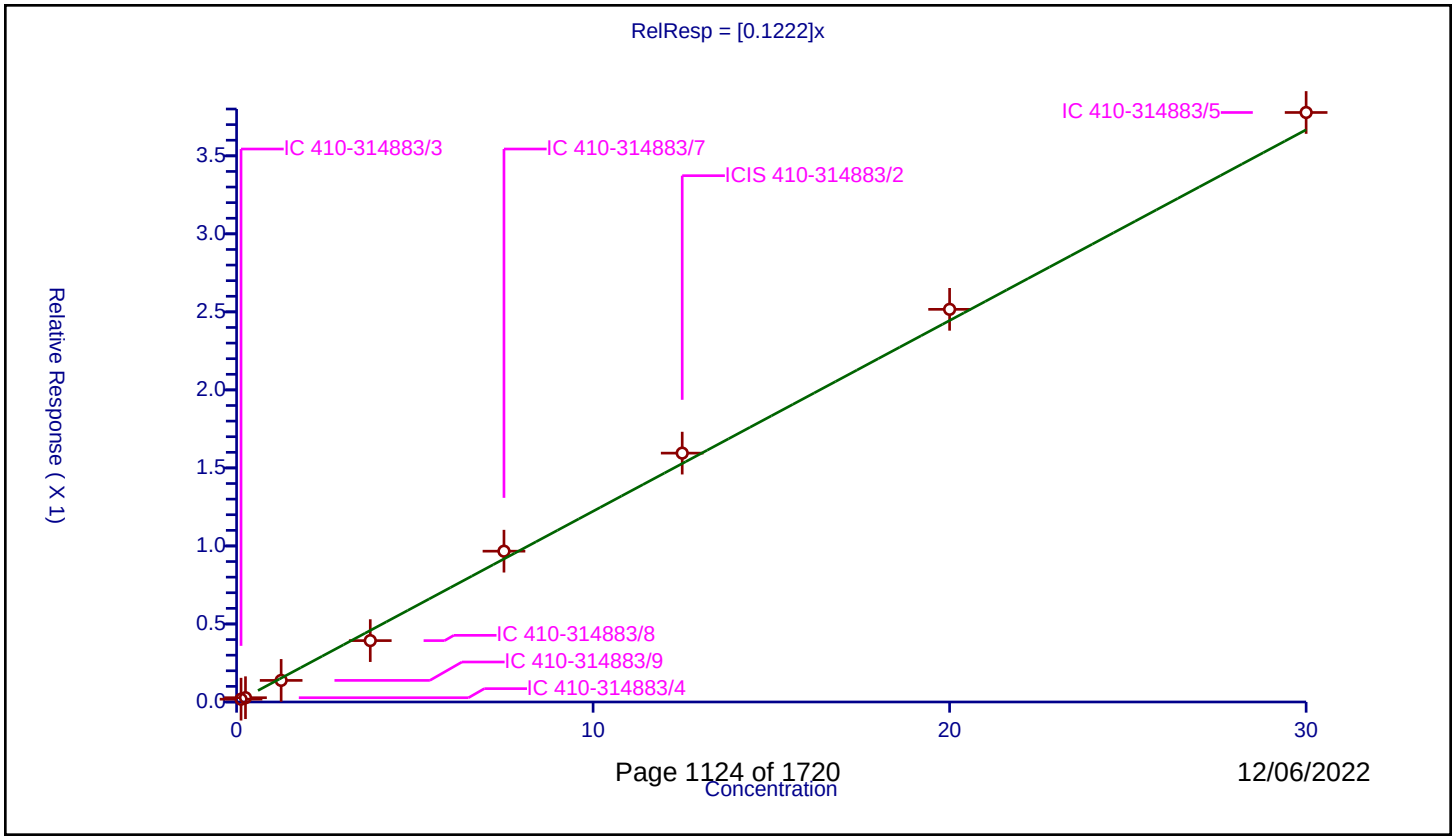
Curve Coefficients

Intercept:	0
Slope:	0.1222

Error Coefficients

Standard Error:	192000
Relative Standard Error:	10.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.018027	5.0	490662.0	0.144213	Y
2	IC 410-314883/4	0.25	0.027491	5.0	470704.0	0.109963	Y
3	IC 410-314883/9	1.25	0.138301	5.0	523389.0	0.11064	Y
4	IC 410-314883/8	3.75	0.393299	5.0	506053.0	0.10488	Y
5	IC 410-314883/7	7.5	0.96642	5.0	496244.0	0.128856	Y
6	ICIS 410-314883/2	12.5	1.594856	5.0	523765.0	0.127589	Y
7	IC 410-314883/6	20.0	2.516286	5.0	517475.0	0.125814	Y
8	IC 410-314883/5	30.0	3.777783	5.0	513894.0	0.125926	Y



Calibration / 1,3,5-Trinitrobenzene

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

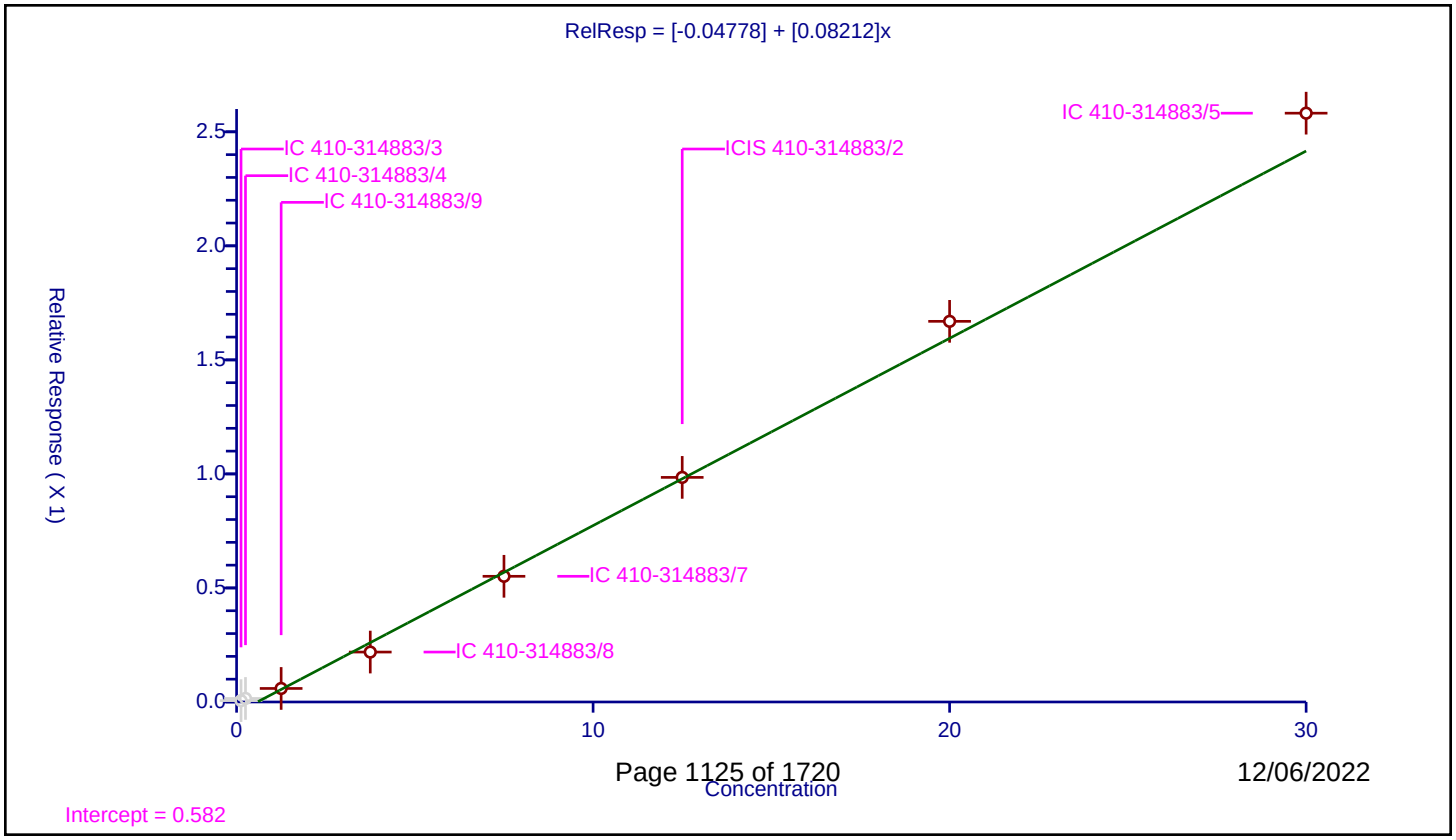
Curve Coefficients

Intercept:	-0.04778
Slope:	0.08212

Error Coefficients

Standard Error:	169000
Relative Standard Error:	8.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.005921	5.0	490662.0	0.047365	N
2	IC 410-314883/4	0.25	0.015498	5.0	470704.0	0.061992	N
3	IC 410-314883/9	1.25	0.059287	5.0	523389.0	0.047429	Y
4	IC 410-314883/8	3.75	0.21889	5.0	506053.0	0.058371	Y
5	IC 410-314883/7	7.5	0.55109	5.0	496244.0	0.073479	Y
6	ICIS 410-314883/2	12.5	0.984812	5.0	523765.0	0.078785	Y
7	IC 410-314883/6	20.0	1.669076	5.0	517475.0	0.083454	Y
8	IC 410-314883/5	30.0	2.581816	5.0	513894.0	0.086061	Y



Calibration / cis-Diallate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

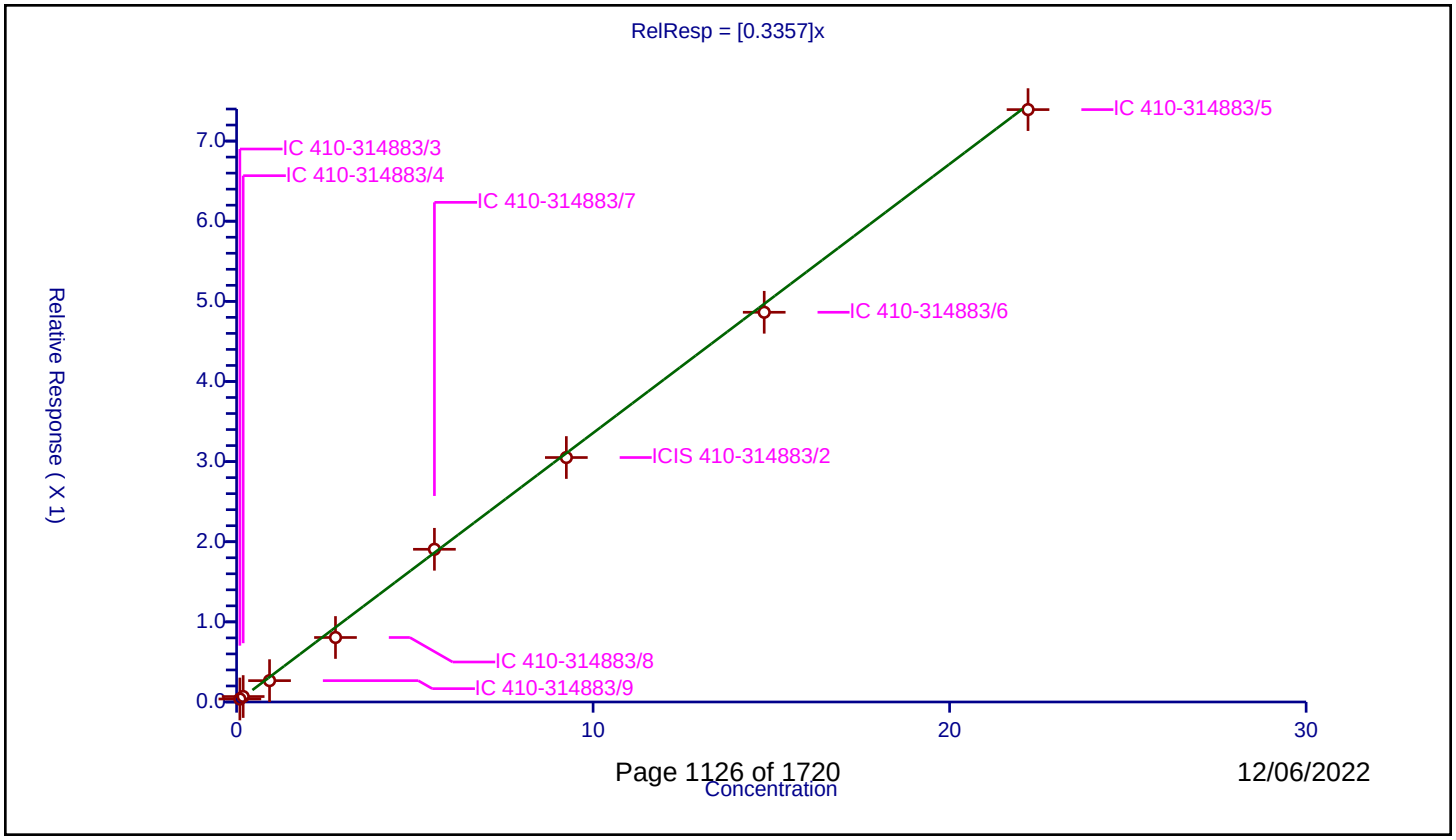
Curve Coefficients

Intercept:	0
Slope:	0.3357

Error Coefficients

Standard Error:	373000
Relative Standard Error:	11.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.0925	0.03747	5.0	490662.0	0.405079	Y
2	IC 410-314883/4	0.185	0.067994	5.0	470704.0	0.367535	Y
3	IC 410-314883/9	0.925	0.26637	5.0	523389.0	0.287967	Y
4	IC 410-314883/8	2.775	0.804965	5.0	506053.0	0.290078	Y
5	IC 410-314883/7	5.55	1.905736	5.0	496244.0	0.343376	Y
6	ICIS 410-314883/2	9.25	3.050786	5.0	523765.0	0.329815	Y
7	IC 410-314883/6	14.8	4.863646	5.0	517475.0	0.328625	Y
8	IC 410-314883/5	22.2	7.392526	5.0	513894.0	0.332997	Y



Calibration / Phenacetin

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

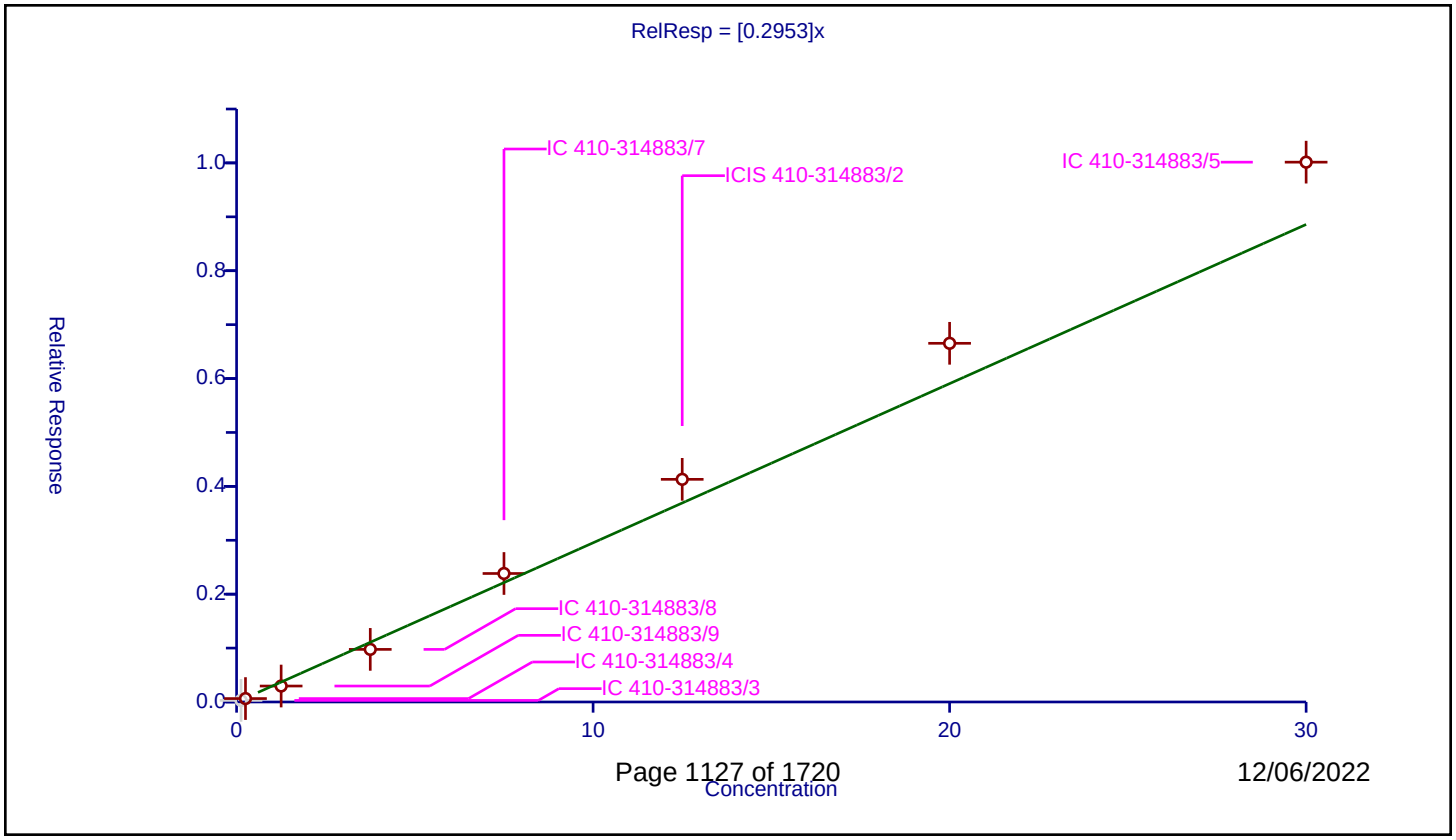
Curve Coefficients

Intercept:	0
Slope:	0.2953

Error Coefficients

Standard Error:	546000
Relative Standard Error:	14.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.979

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.029674	5.0	490662.0	0.237394	N
2	IC 410-314883/4	0.25	0.063777	5.0	470704.0	0.255107	Y
3	IC 410-314883/9	1.25	0.296176	5.0	523389.0	0.23694	Y
4	IC 410-314883/8	3.75	0.975876	5.0	506053.0	0.260234	Y
5	IC 410-314883/7	7.5	2.383666	5.0	496244.0	0.317822	Y
6	ICIS 410-314883/2	12.5	4.130555	5.0	523765.0	0.330444	Y
7	IC 410-314883/6	20.0	6.65351	5.0	517475.0	0.332675	Y
8	IC 410-314883/5	30.0	10.014264	5.0	513894.0	0.333809	Y



Calibration / Phorate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

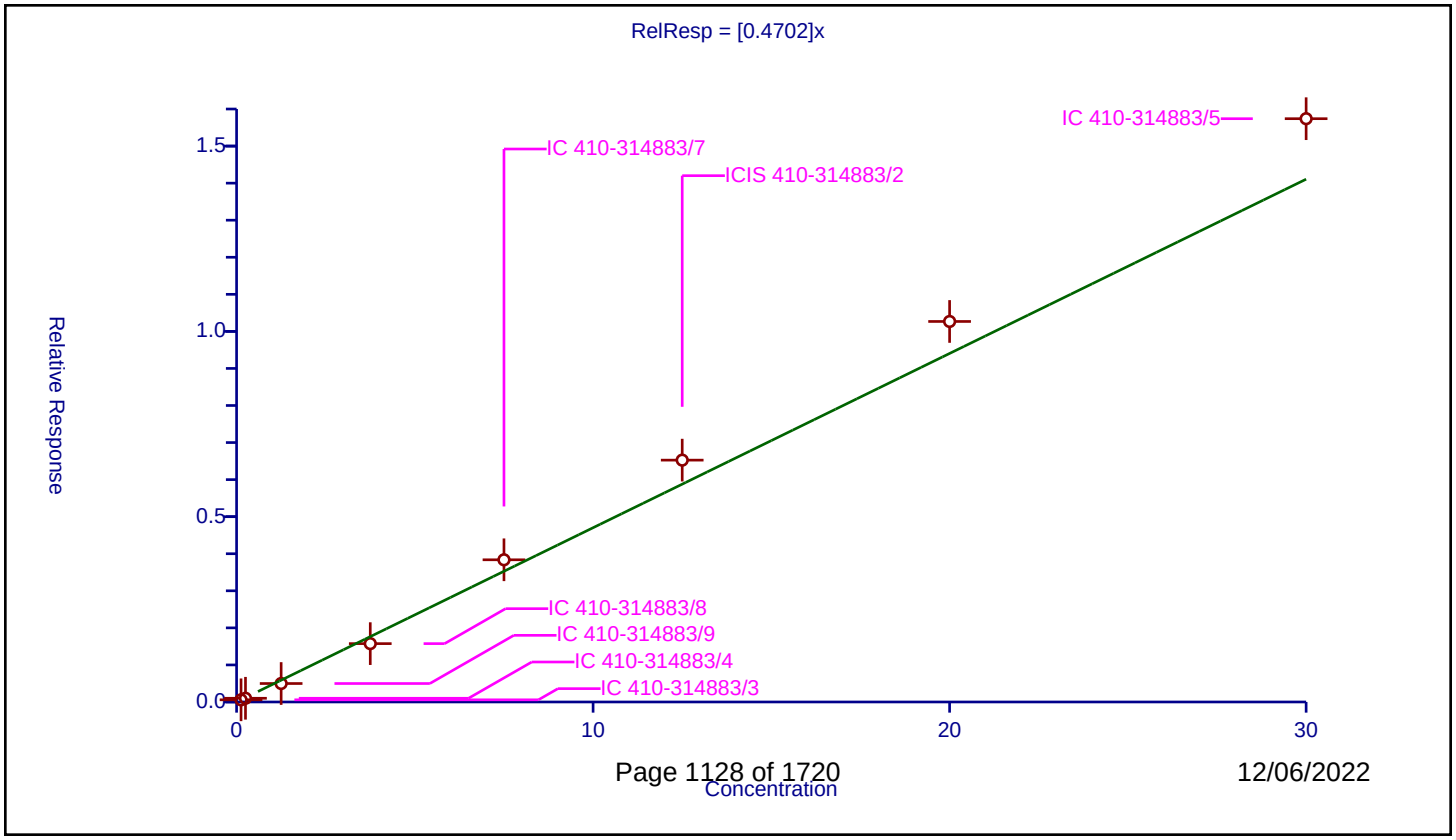
Curve Coefficients

Intercept:	0
Slope:	0.4702

Error Coefficients

Standard Error:	792000
Relative Standard Error:	11.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.058554	5.0	490662.0	0.468428	Y
2	IC 410-314883/4	0.25	0.100721	5.0	470704.0	0.402886	Y
3	IC 410-314883/9	1.25	0.49853	5.0	523389.0	0.398824	Y
4	IC 410-314883/8	3.75	1.574657	5.0	506053.0	0.419909	Y
5	IC 410-314883/7	7.5	3.836701	5.0	496244.0	0.51156	Y
6	ICIS 410-314883/2	12.5	6.526162	5.0	523765.0	0.522093	Y
7	IC 410-314883/6	20.0	10.267085	5.0	517475.0	0.513354	Y
8	IC 410-314883/5	30.0	15.739024	5.0	513894.0	0.524634	Y



Calibration / 4-Bromophenyl phenyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

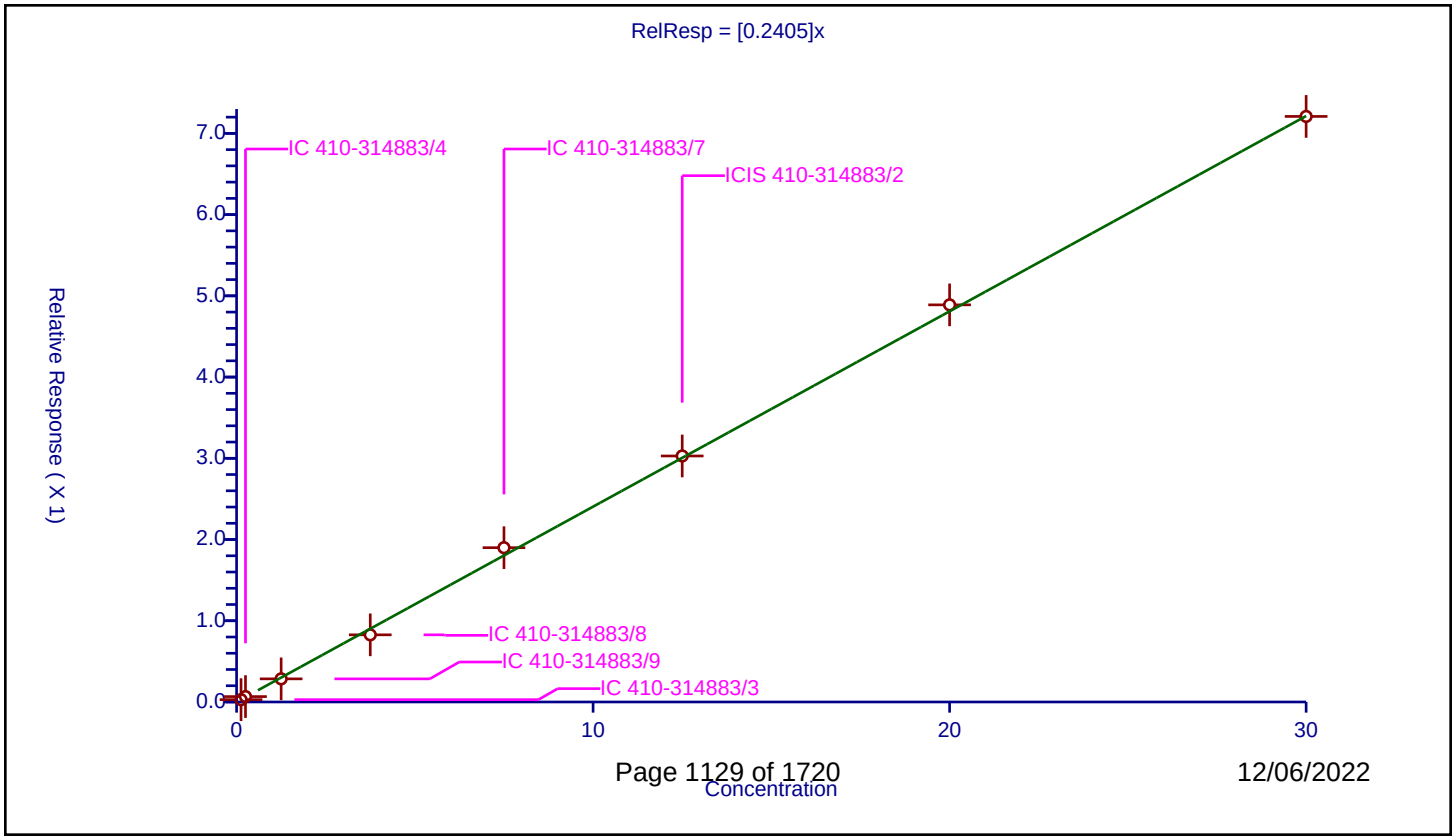
Curve Coefficients

Intercept:	0
Slope:	0.2405

Error Coefficients

Standard Error:	368000
Relative Standard Error:	6.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.028594	5.0	490662.0	0.228752	Y
2	IC 410-314883/4	0.25	0.066602	5.0	470704.0	0.266409	Y
3	IC 410-314883/9	1.25	0.28474	5.0	523389.0	0.227792	Y
4	IC 410-314883/8	3.75	0.826781	5.0	506053.0	0.220475	Y
5	IC 410-314883/7	7.5	1.899519	5.0	496244.0	0.253269	Y
6	ICIS 410-314883/2	12.5	3.028696	5.0	523765.0	0.242296	Y
7	IC 410-314883/6	20.0	4.889115	5.0	517475.0	0.244456	Y
8	IC 410-314883/5	30.0	7.208763	5.0	513894.0	0.240292	Y



Calibration / trans-Diallate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

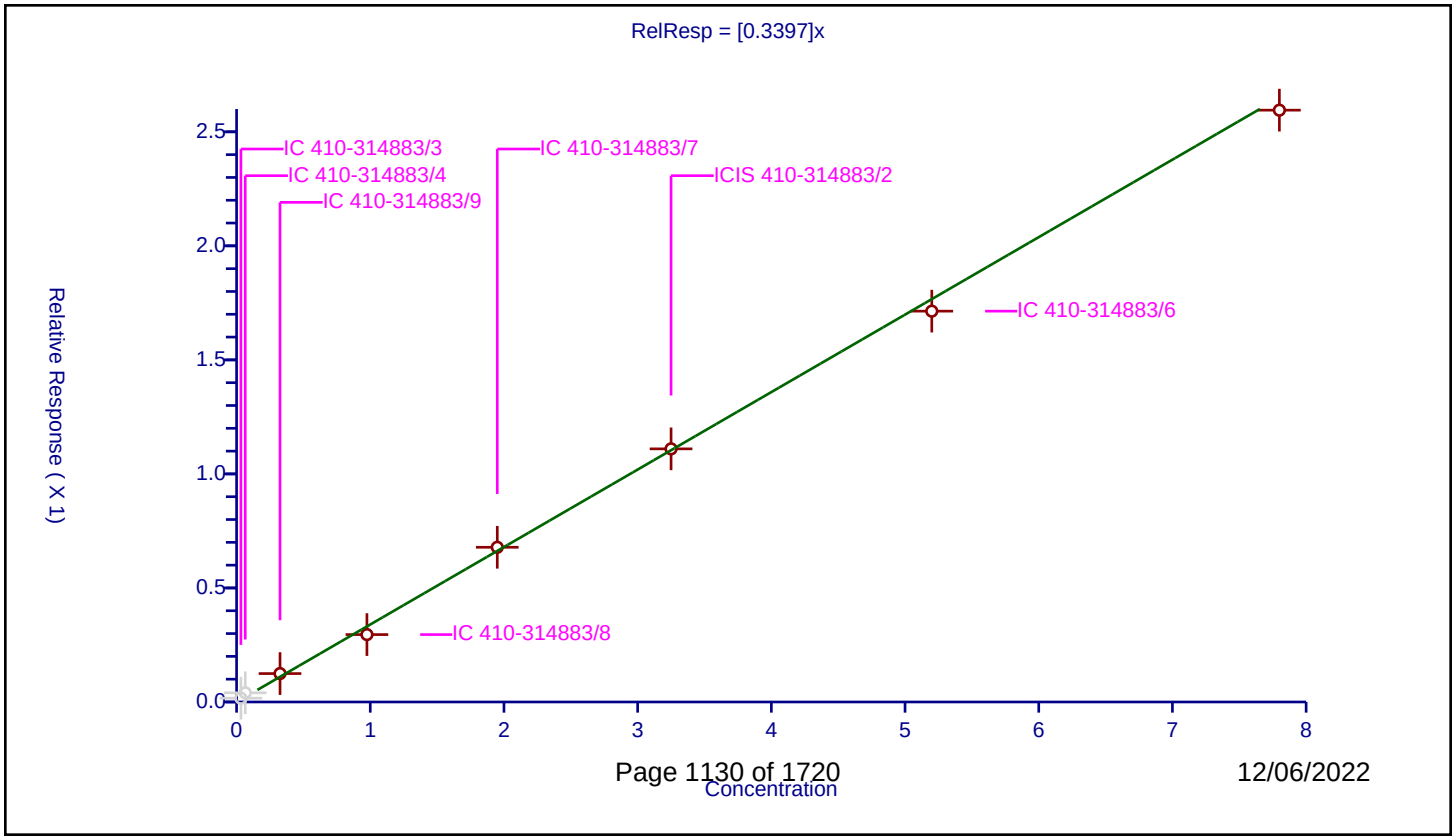
Curve Coefficients

Intercept:	0
Slope:	0.3397

Error Coefficients

Standard Error:	156000
Relative Standard Error:	7.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.0325	0.016651	5.0	490662.0	0.512338	N
2	IC 410-314883/4	0.065	0.040163	5.0	470704.0	0.617896	N
3	IC 410-314883/9	0.325	0.124592	5.0	523389.0	0.38336	Y
4	IC 410-314883/8	0.975	0.295542	5.0	506053.0	0.30312	Y
5	IC 410-314883/7	1.95	0.678396	5.0	496244.0	0.347895	Y
6	ICIS 410-314883/2	3.25	1.109925	5.0	523765.0	0.341515	Y
7	IC 410-314883/6	5.2	1.713667	5.0	517475.0	0.329551	Y
8	IC 410-314883/5	7.8	2.594961	5.0	513894.0	0.332687	Y



Calibration / Hexachlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

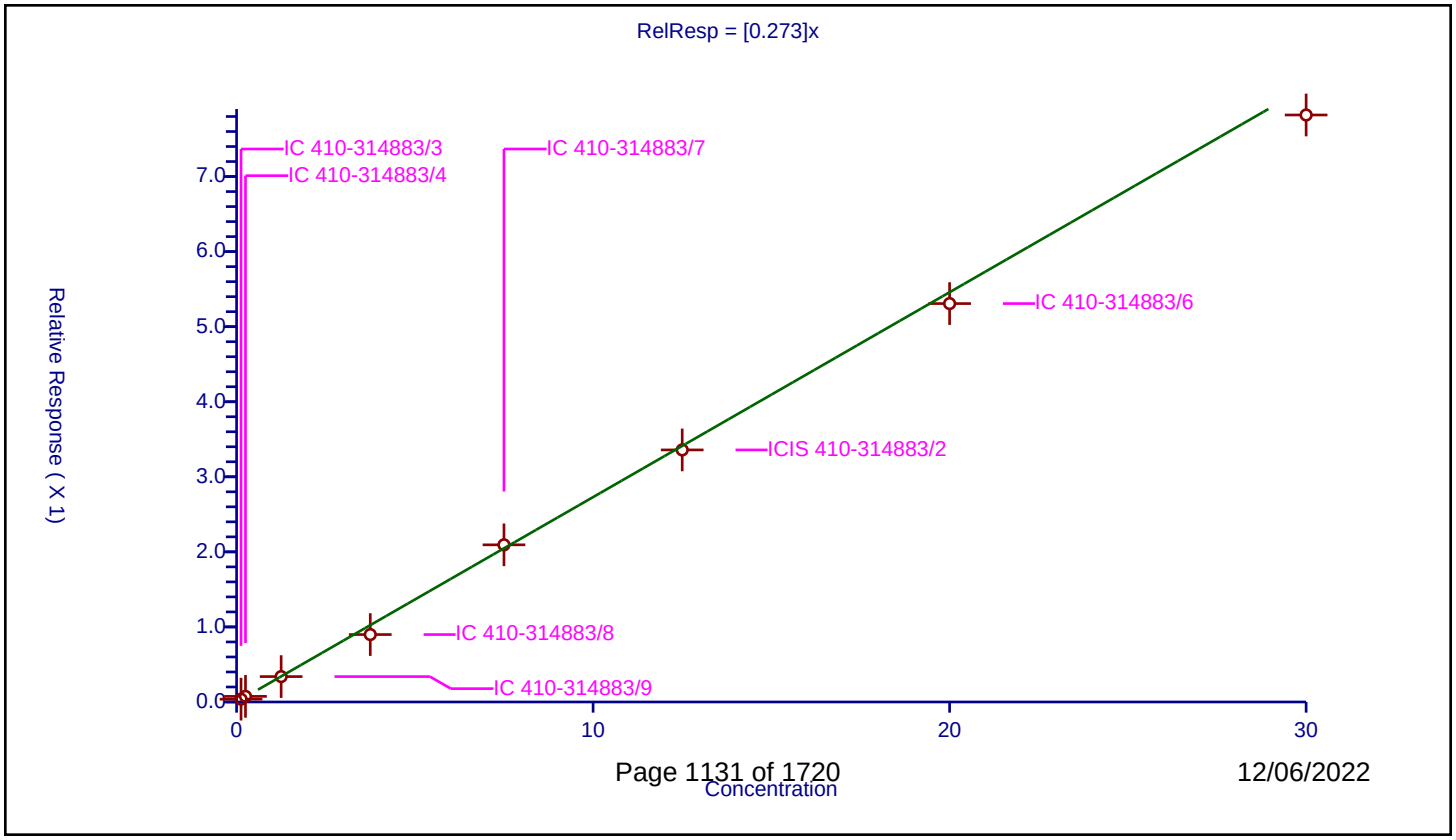
Curve Coefficients

Intercept:	0
Slope:	0.273

Error Coefficients

Standard Error:	401000
Relative Standard Error:	7.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.037541	5.0	490662.0	0.300329	Y
2	IC 410-314883/4	0.25	0.074803	5.0	470704.0	0.299211	Y
3	IC 410-314883/9	1.25	0.33841	5.0	523389.0	0.270728	Y
4	IC 410-314883/8	3.75	0.898127	5.0	506053.0	0.239501	Y
5	IC 410-314883/7	7.5	2.093718	5.0	496244.0	0.279162	Y
6	ICIS 410-314883/2	12.5	3.358185	5.0	523765.0	0.268655	Y
7	IC 410-314883/6	20.0	5.307783	5.0	517475.0	0.265389	Y
8	IC 410-314883/5	30.0	7.820543	5.0	513894.0	0.260685	Y



Calibration / Dimethoate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

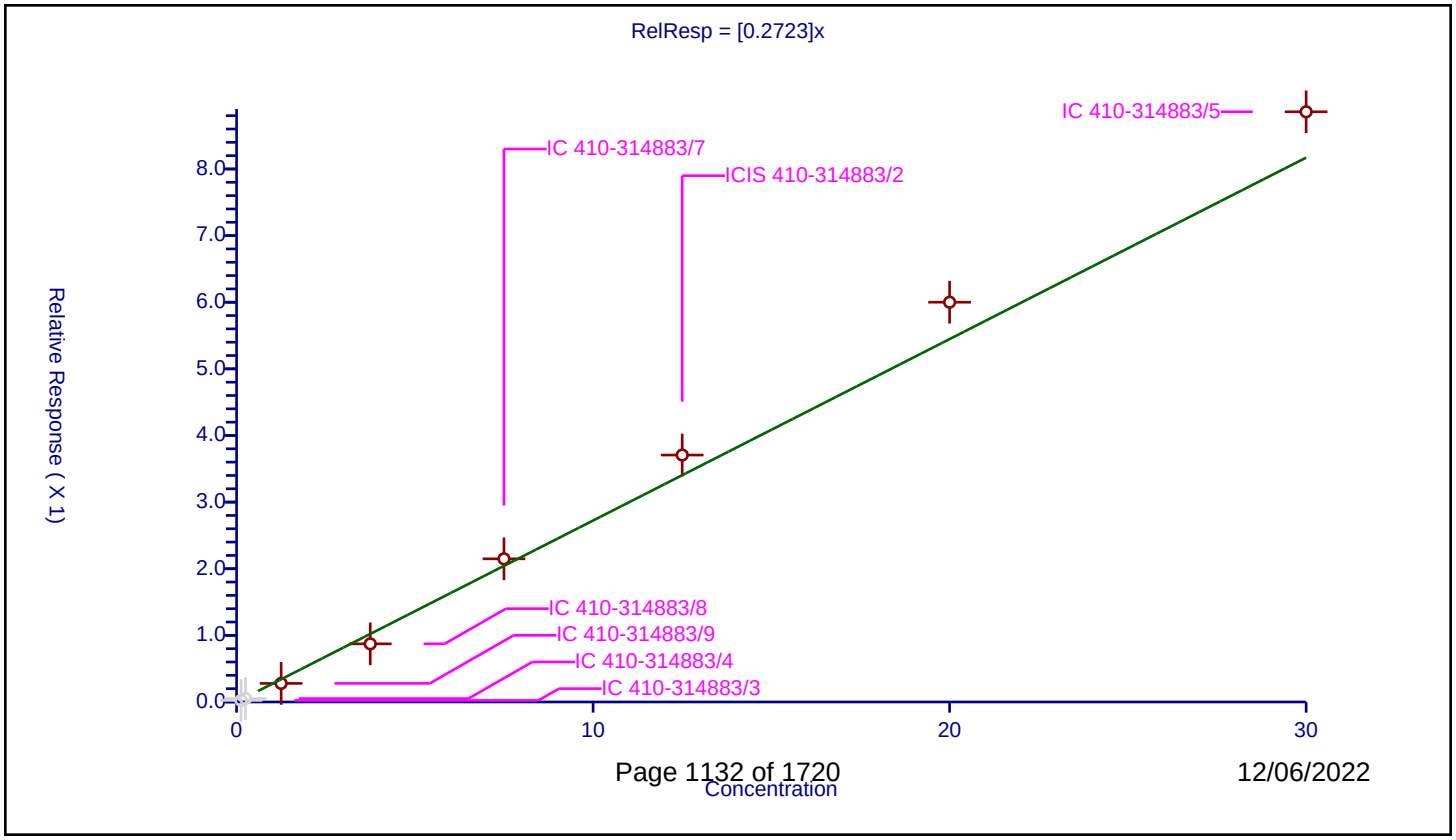
Curve Coefficients

Intercept:	0
Slope:	0.2723

Error Coefficients

Standard Error:	533000
Relative Standard Error:	12.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.023642	5.0	490662.0	0.189132	N
2	IC 410-314883/4	0.25	0.051752	5.0	470704.0	0.207009	N
3	IC 410-314883/9	1.25	0.27876	5.0	523389.0	0.223008	Y
4	IC 410-314883/8	3.75	0.872695	5.0	506053.0	0.232719	Y
5	IC 410-314883/7	7.5	2.14862	5.0	496244.0	0.286483	Y
6	ICIS 410-314883/2	12.5	3.706357	5.0	523765.0	0.296509	Y
7	IC 410-314883/6	20.0	6.000435	5.0	517475.0	0.300022	Y
8	IC 410-314883/5	30.0	8.858383	5.0	513894.0	0.295279	Y



Calibration / Atrazine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

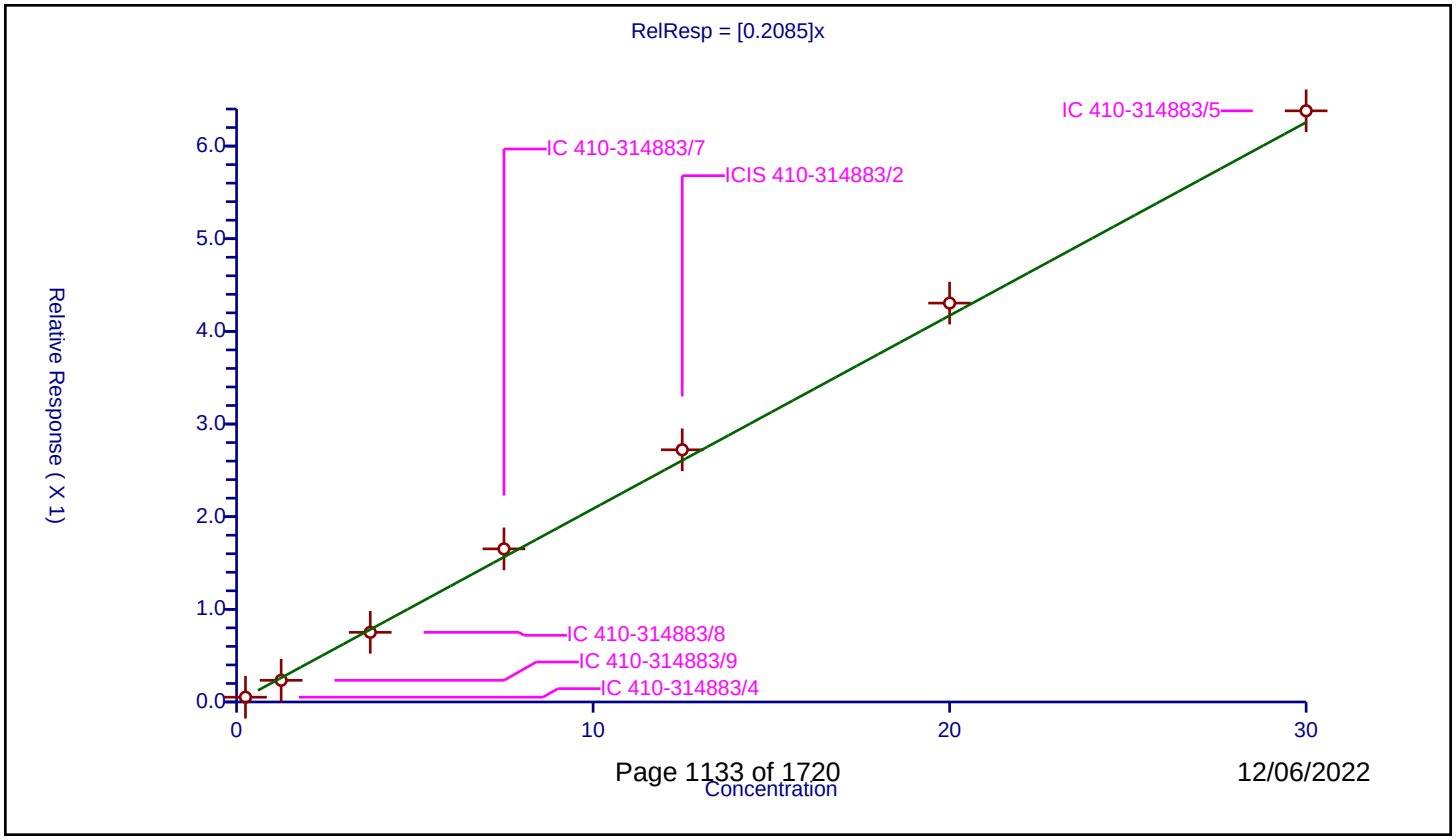
Curve Coefficients

Intercept:	0
Slope:	0.2085

Error Coefficients

Standard Error:	352000
Relative Standard Error:	5.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/4	0.25	0.051529	5.0	470704.0	0.206117	Y
2	IC 410-314883/9	1.25	0.233927	5.0	523389.0	0.187142	Y
3	IC 410-314883/8	3.75	0.751749	5.0	506053.0	0.200466	Y
4	IC 410-314883/7	7.5	1.652383	5.0	496244.0	0.220318	Y
5	ICIS 410-314883/2	12.5	2.721984	5.0	523765.0	0.217759	Y
6	IC 410-314883/6	20.0	4.305387	5.0	517475.0	0.215269	Y
7	IC 410-314883/5	30.0	6.380567	5.0	513894.0	0.212686	Y



Calibration / Pentachlorophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

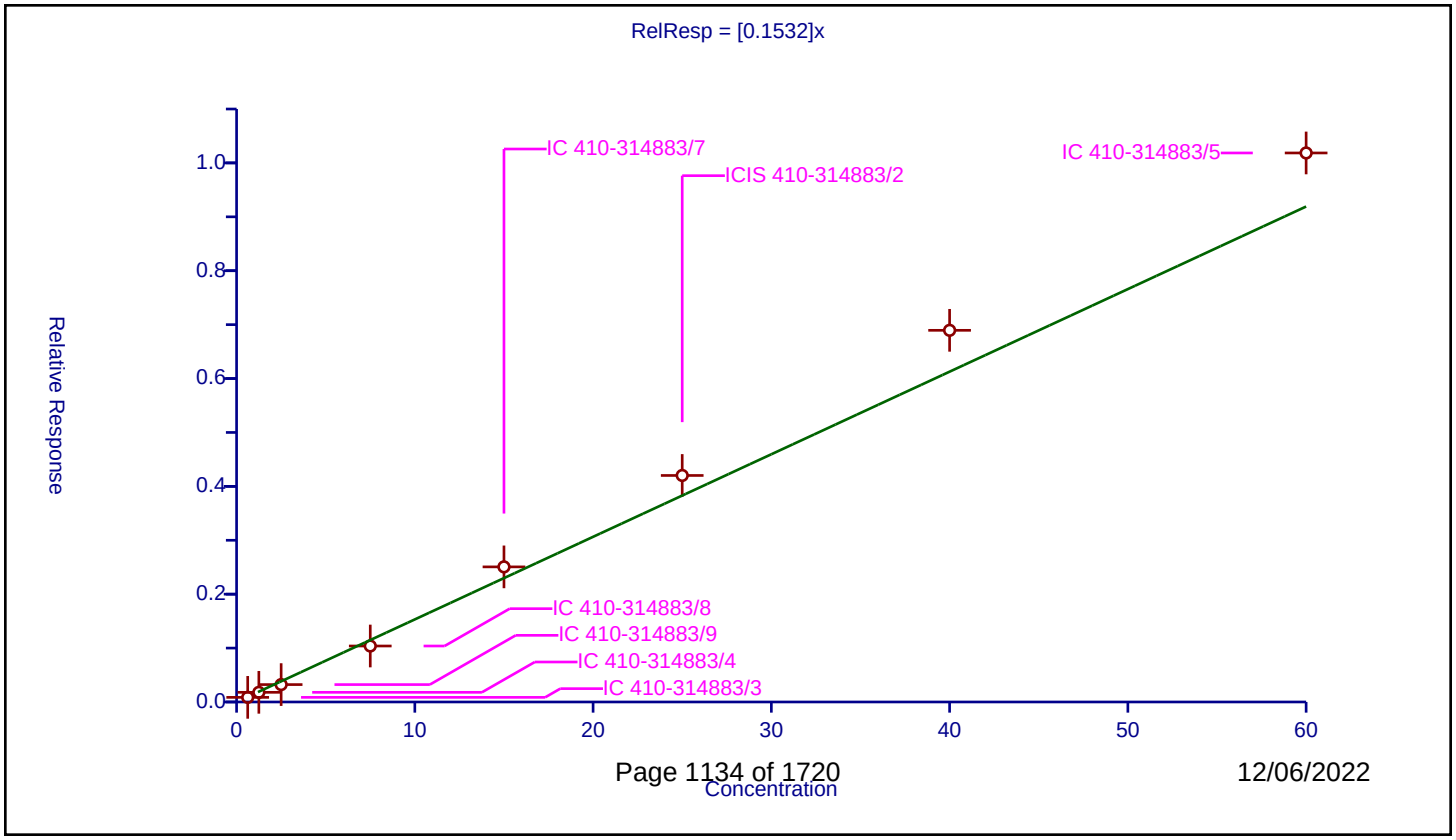
Curve Coefficients

Intercept:	0
Slope:	0.1532

Error Coefficients

Standard Error:	517000
Relative Standard Error:	11.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.625	0.085802	5.0	490662.0	0.137284	Y
2	IC 410-314883/4	1.25	0.179072	5.0	470704.0	0.143258	Y
3	IC 410-314883/9	2.5	0.322791	5.0	523389.0	0.129116	Y
4	IC 410-314883/8	7.5	1.038745	5.0	506053.0	0.138499	Y
5	IC 410-314883/7	15.0	2.506428	5.0	496244.0	0.167095	Y
6	ICIS 410-314883/2	25.0	4.202238	5.0	523765.0	0.16809	Y
7	IC 410-314883/6	40.0	6.894739	5.0	517475.0	0.172368	Y
8	IC 410-314883/5	60.0	10.184814	5.0	513894.0	0.169747	Y



Calibration / 4-Aminobiphenyl

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

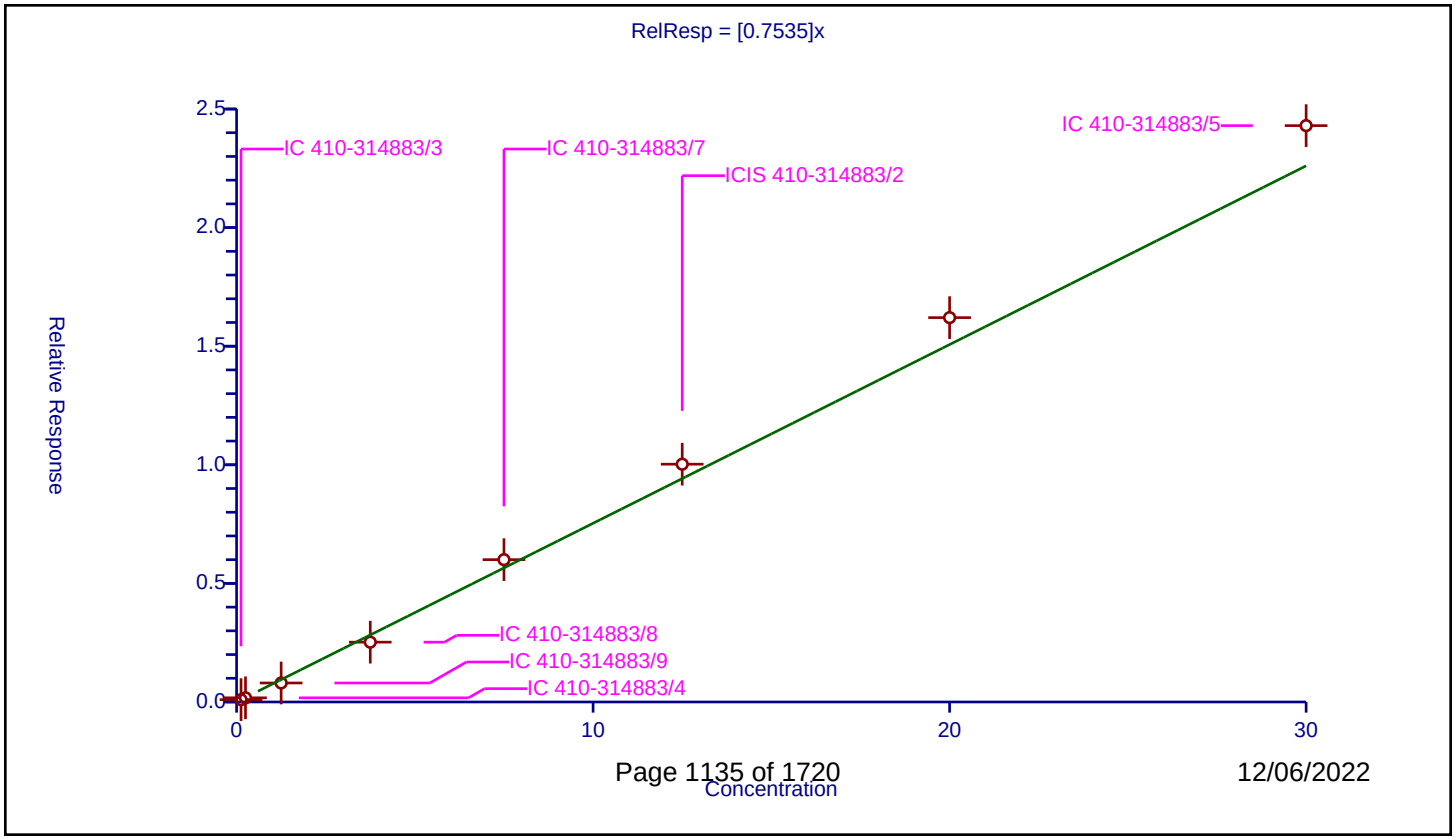
Curve Coefficients

Intercept:	0
Slope:	0.7535

Error Coefficients

Standard Error:	1230000
Relative Standard Error:	9.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.098632	5.0	490662.0	0.789056	Y
2	IC 410-314883/4	0.25	0.175737	5.0	470704.0	0.702947	Y
3	IC 410-314883/9	1.25	0.800733	5.0	523389.0	0.640587	Y
4	IC 410-314883/8	3.75	2.522473	5.0	506053.0	0.672659	Y
5	IC 410-314883/7	7.5	6.000677	5.0	496244.0	0.80009	Y
6	ICIS 410-314883/2	12.5	10.026119	5.0	523765.0	0.802089	Y
7	IC 410-314883/6	20.0	16.204706	5.0	517475.0	0.810235	Y
8	IC 410-314883/5	30.0	24.299116	5.0	513894.0	0.809971	Y



Calibration / Pentachloronitrobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

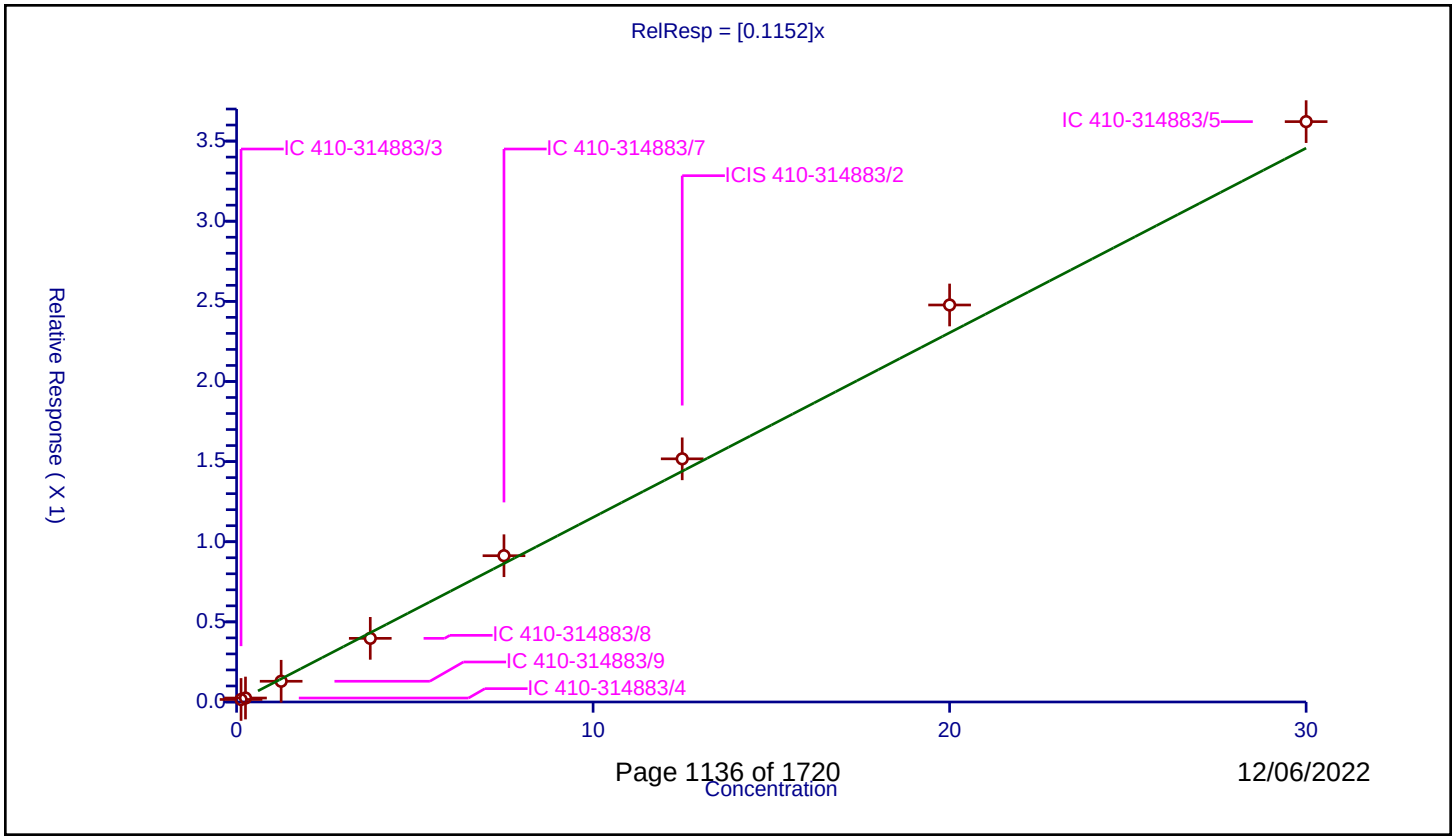
Curve Coefficients

Intercept:	0
Slope:	0.1152

Error Coefficients

Standard Error:	185000
Relative Standard Error:	9.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.015724	5.0	490662.0	0.125789	Y
2	IC 410-314883/4	0.25	0.024676	5.0	470704.0	0.098703	Y
3	IC 410-314883/9	1.25	0.129445	5.0	523389.0	0.103556	Y
4	IC 410-314883/8	3.75	0.397132	5.0	506053.0	0.105902	Y
5	IC 410-314883/7	7.5	0.912706	5.0	496244.0	0.121694	Y
6	ICIS 410-314883/2	12.5	1.517226	5.0	523765.0	0.121378	Y
7	IC 410-314883/6	20.0	2.477105	5.0	517475.0	0.123855	Y
8	IC 410-314883/5	30.0	3.62135	5.0	513894.0	0.120712	Y



Calibration / Pronamide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

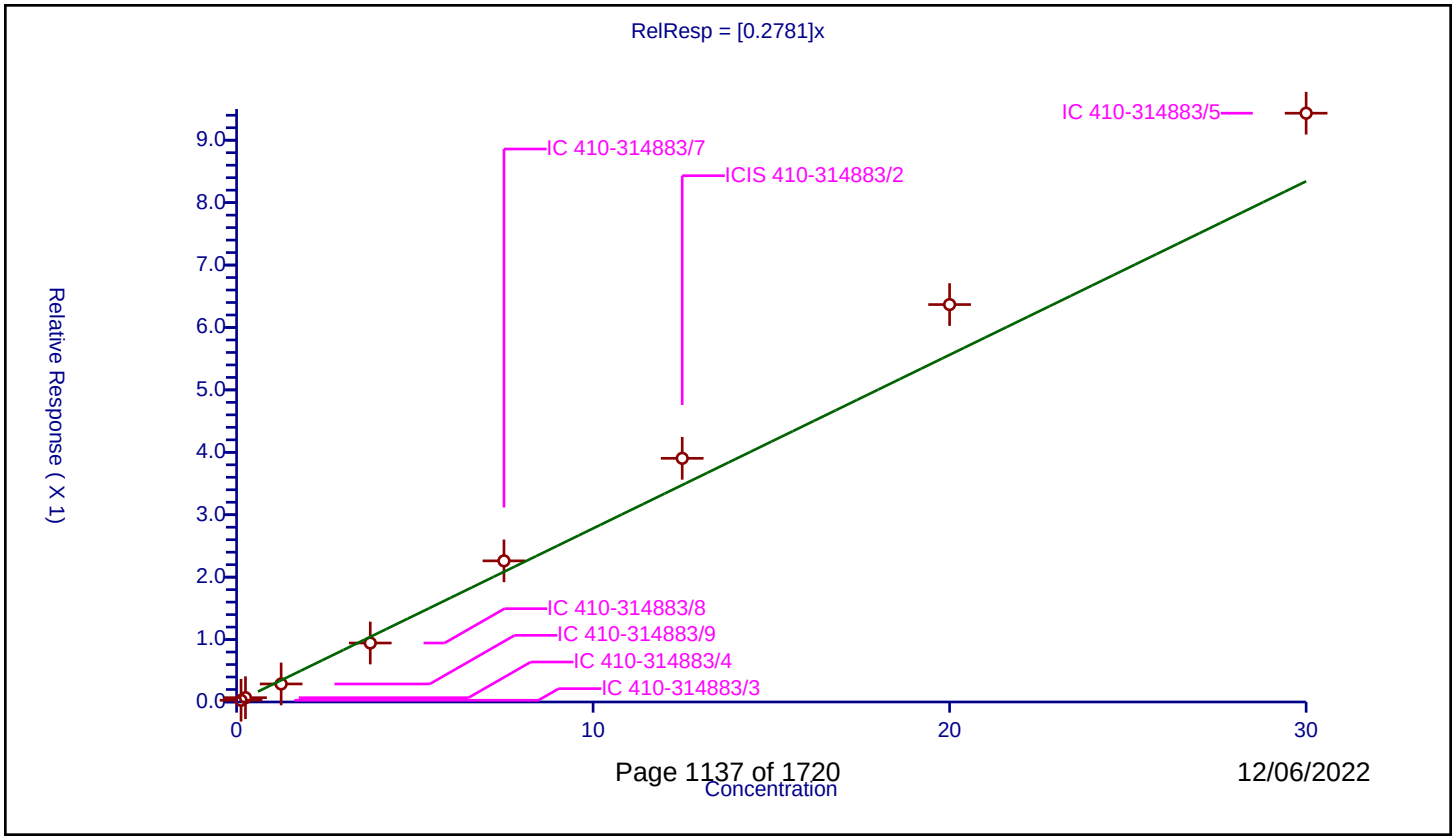
Curve Coefficients

Intercept:	0
Slope:	0.2781

Error Coefficients

Standard Error:	478000
Relative Standard Error:	14.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.027453	5.0	490662.0	0.219622	Y
2	IC 410-314883/4	0.25	0.068833	5.0	470704.0	0.275332	Y
3	IC 410-314883/9	1.25	0.288867	5.0	523389.0	0.231094	Y
4	IC 410-314883/8	3.75	0.944891	5.0	506053.0	0.251971	Y
5	IC 410-314883/7	7.5	2.260904	5.0	496244.0	0.301454	Y
6	ICIS 410-314883/2	12.5	3.903802	5.0	523765.0	0.312304	Y
7	IC 410-314883/6	20.0	6.367322	5.0	517475.0	0.318366	Y
8	IC 410-314883/5	30.0	9.432762	5.0	513894.0	0.314425	Y



Calibration / Dinoseb

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

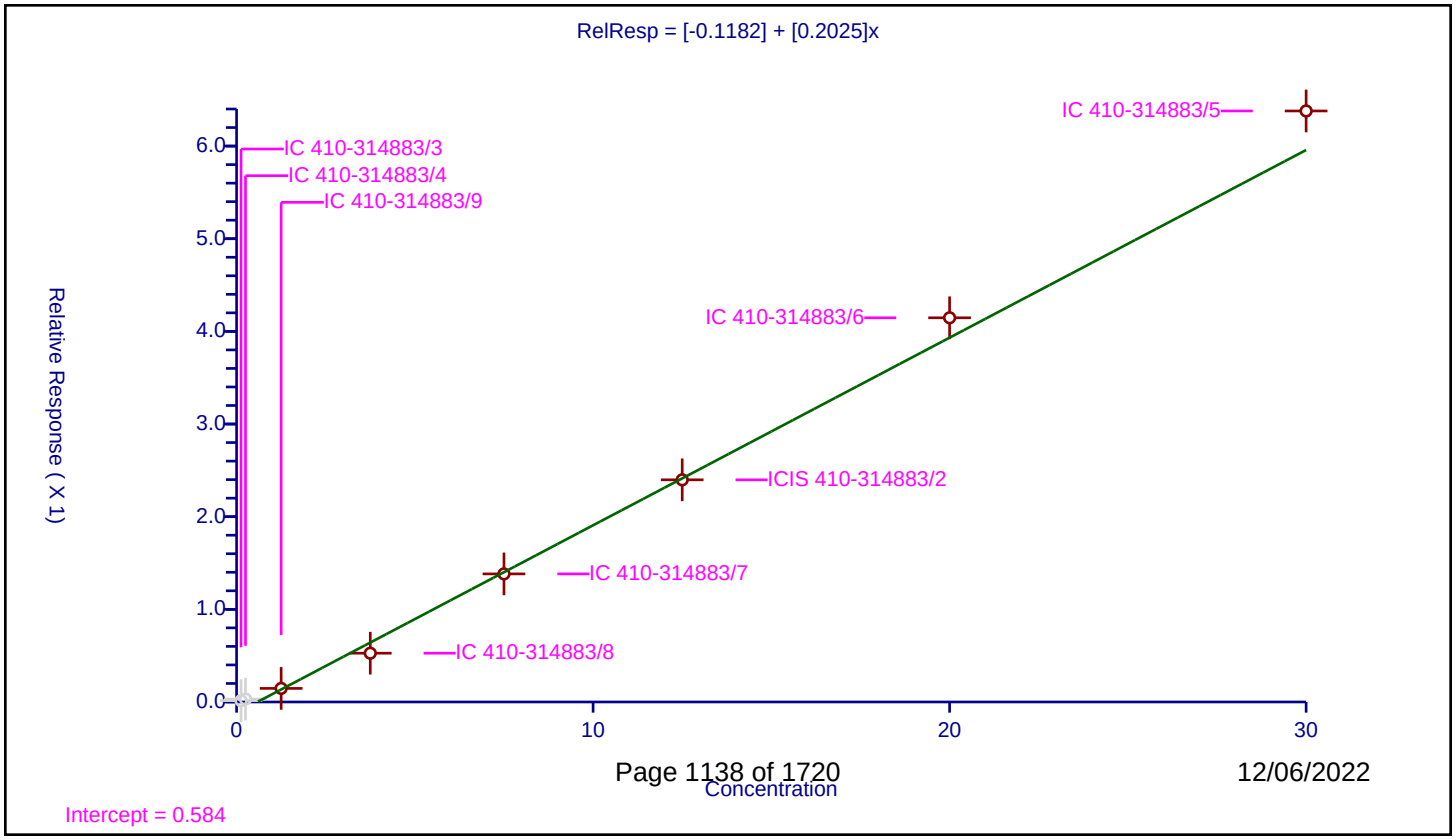
Curve Coefficients

Intercept:	-0.1182
Slope:	0.2025

Error Coefficients

Standard Error:	418000
Relative Standard Error:	9.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.014429	5.0	490662.0	0.115436	N
2	IC 410-314883/4	0.25	0.031134	5.0	470704.0	0.124537	N
3	IC 410-314883/9	1.25	0.146774	5.0	523389.0	0.117419	Y
4	IC 410-314883/8	3.75	0.526476	5.0	506053.0	0.140394	Y
5	IC 410-314883/7	7.5	1.382596	5.0	496244.0	0.184346	Y
6	ICIS 410-314883/2	12.5	2.397888	5.0	523765.0	0.191831	Y
7	IC 410-314883/6	20.0	4.146674	5.0	517475.0	0.207334	Y
8	IC 410-314883/5	30.0	6.379049	5.0	513894.0	0.212635	Y



Calibration / Disulfoton

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

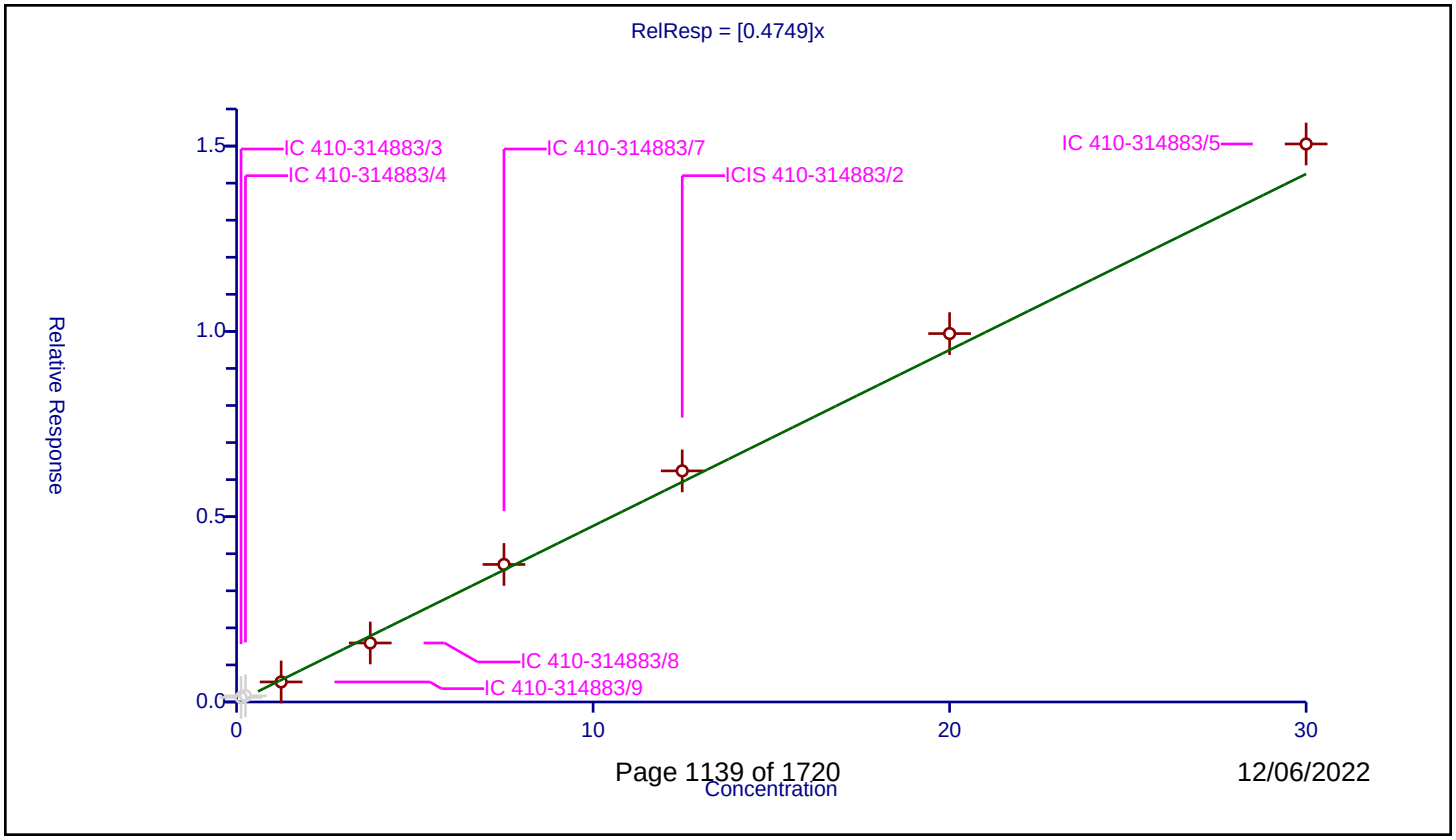
Curve Coefficients

Intercept:	0
Slope:	0.4749

Error Coefficients

Standard Error:	899000
Relative Standard Error:	7.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.122528	5.0	490662.0	0.980227	N
2	IC 410-314883/4	0.25	0.166538	5.0	470704.0	0.666151	N
3	IC 410-314883/9	1.25	0.540659	5.0	523389.0	0.432527	Y
4	IC 410-314883/8	3.75	1.59179	5.0	506053.0	0.424477	Y
5	IC 410-314883/7	7.5	3.710876	5.0	496244.0	0.494783	Y
6	ICIS 410-314883/2	12.5	6.236213	5.0	523765.0	0.498897	Y
7	IC 410-314883/6	20.0	9.940934	5.0	517475.0	0.497047	Y
8	IC 410-314883/5	30.0	15.056967	5.0	513894.0	0.501899	Y



Calibration / Phenanthrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

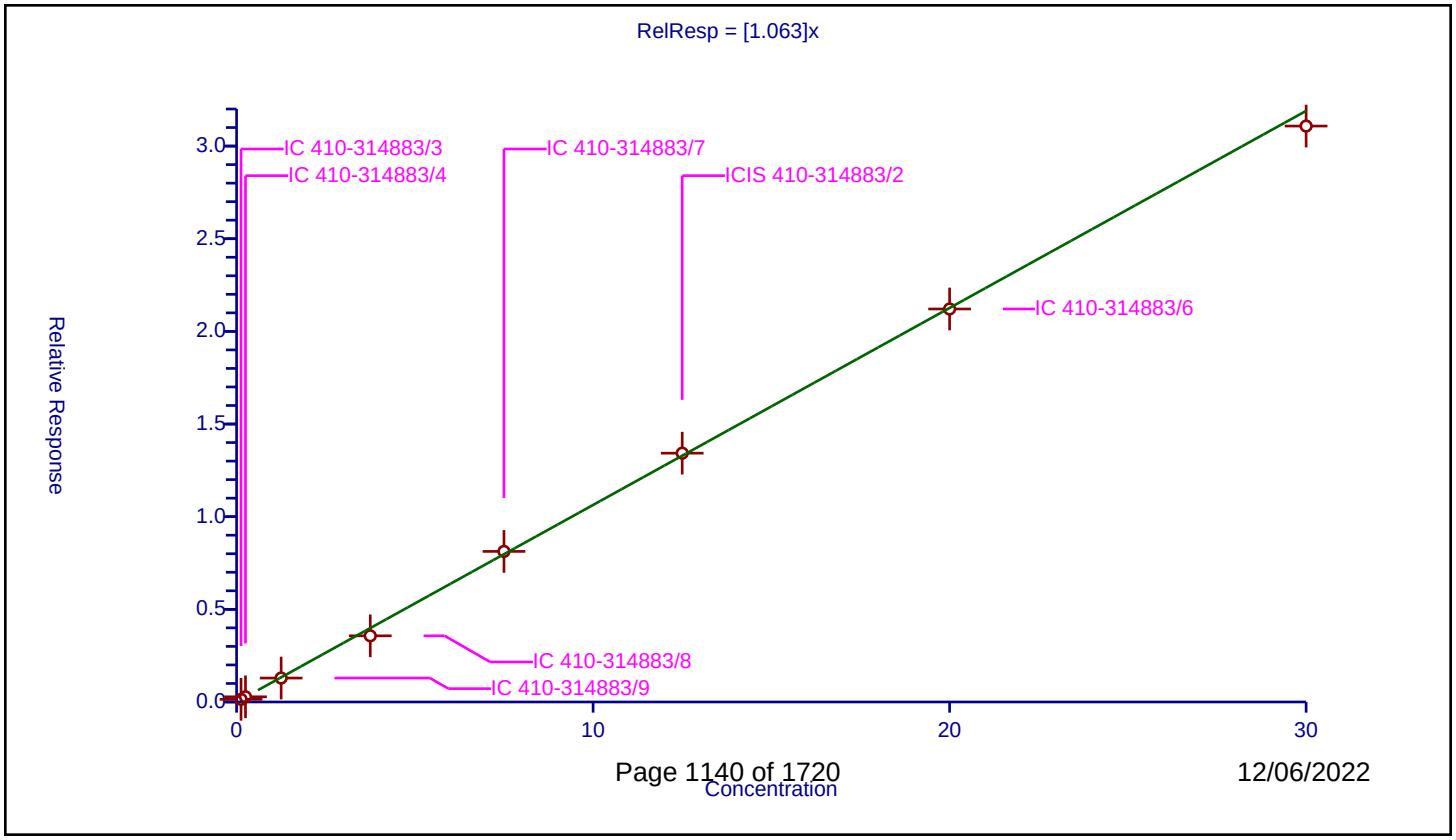
Curve Coefficients

Intercept:	0
Slope:	1.063

Error Coefficients

Standard Error:	1590000
Relative Standard Error:	5.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.1435	5.0	490662.0	1.148	Y
2	IC 410-314883/4	0.25	0.279698	5.0	470704.0	1.118792	Y
3	IC 410-314883/9	1.25	1.291515	5.0	523389.0	1.033212	Y
4	IC 410-314883/8	3.75	3.570772	5.0	506053.0	0.952206	Y
5	IC 410-314883/7	7.5	8.125489	5.0	496244.0	1.083398	Y
6	ICIS 410-314883/2	12.5	13.427081	5.0	523765.0	1.074166	Y
7	IC 410-314883/6	20.0	21.20829	5.0	517475.0	1.060415	Y
8	IC 410-314883/5	30.0	31.080349	5.0	513894.0	1.036012	Y



Calibration / Anthracene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

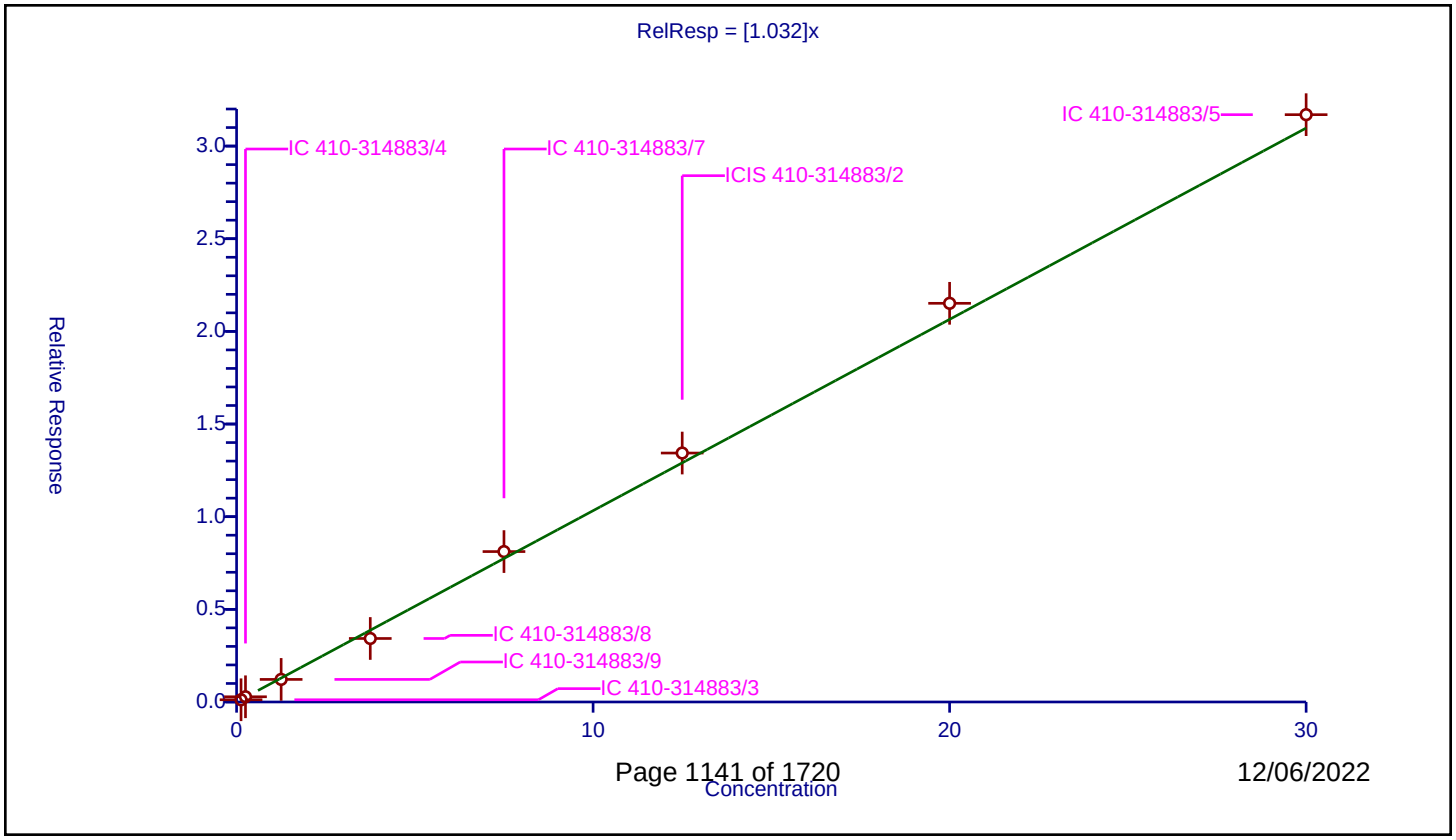
Curve Coefficients

Intercept:	0
Slope:	1.032

Error Coefficients

Standard Error:	1620000
Relative Standard Error:	7.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.119706	5.0	490662.0	0.957645	Y
2	IC 410-314883/4	0.25	0.280792	5.0	470704.0	1.123169	Y
3	IC 410-314883/9	1.25	1.218577	5.0	523389.0	0.974862	Y
4	IC 410-314883/8	3.75	3.427576	5.0	506053.0	0.91402	Y
5	IC 410-314883/7	7.5	8.117388	5.0	496244.0	1.082318	Y
6	ICIS 410-314883/2	12.5	13.43404	5.0	523765.0	1.074723	Y
7	IC 410-314883/6	20.0	21.514923	5.0	517475.0	1.075746	Y
8	IC 410-314883/5	30.0	31.695077	5.0	513894.0	1.056503	Y



Calibration / Carbazole

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

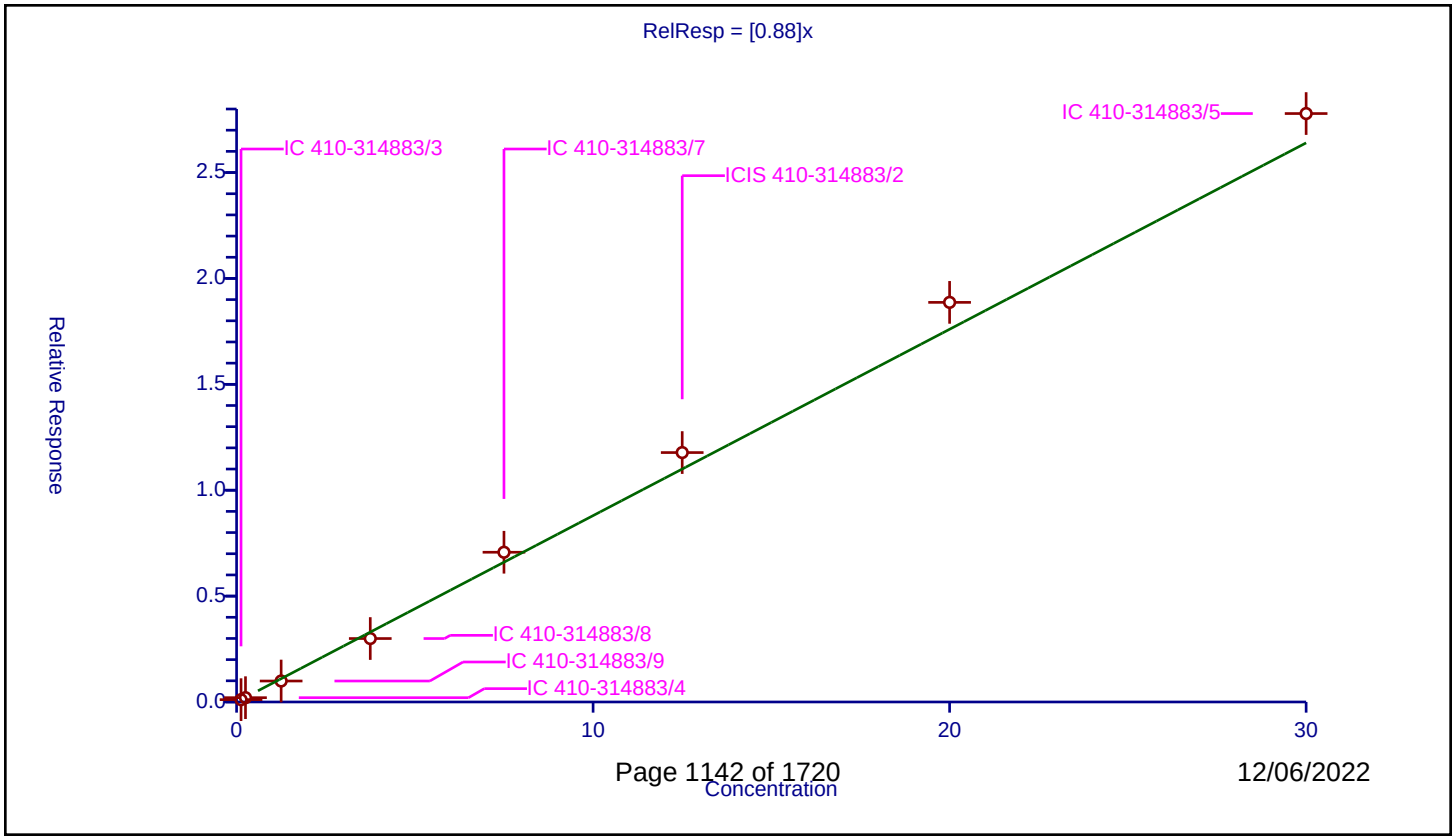
Curve Coefficients

Intercept:	0
Slope:	0.88

Error Coefficients

Standard Error:	1420000
Relative Standard Error:	7.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.110249	5.0	490662.0	0.881992	Y
2	IC 410-314883/4	0.25	0.203143	5.0	470704.0	0.81257	Y
3	IC 410-314883/9	1.25	0.989723	5.0	523389.0	0.791778	Y
4	IC 410-314883/8	3.75	2.996208	5.0	506053.0	0.798989	Y
5	IC 410-314883/7	7.5	7.071118	5.0	496244.0	0.942816	Y
6	ICIS 410-314883/2	12.5	11.778135	5.0	523765.0	0.942251	Y
7	IC 410-314883/6	20.0	18.869665	5.0	517475.0	0.943483	Y
8	IC 410-314883/5	30.0	27.786197	5.0	513894.0	0.926207	Y



Calibration / Methyl parathion

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

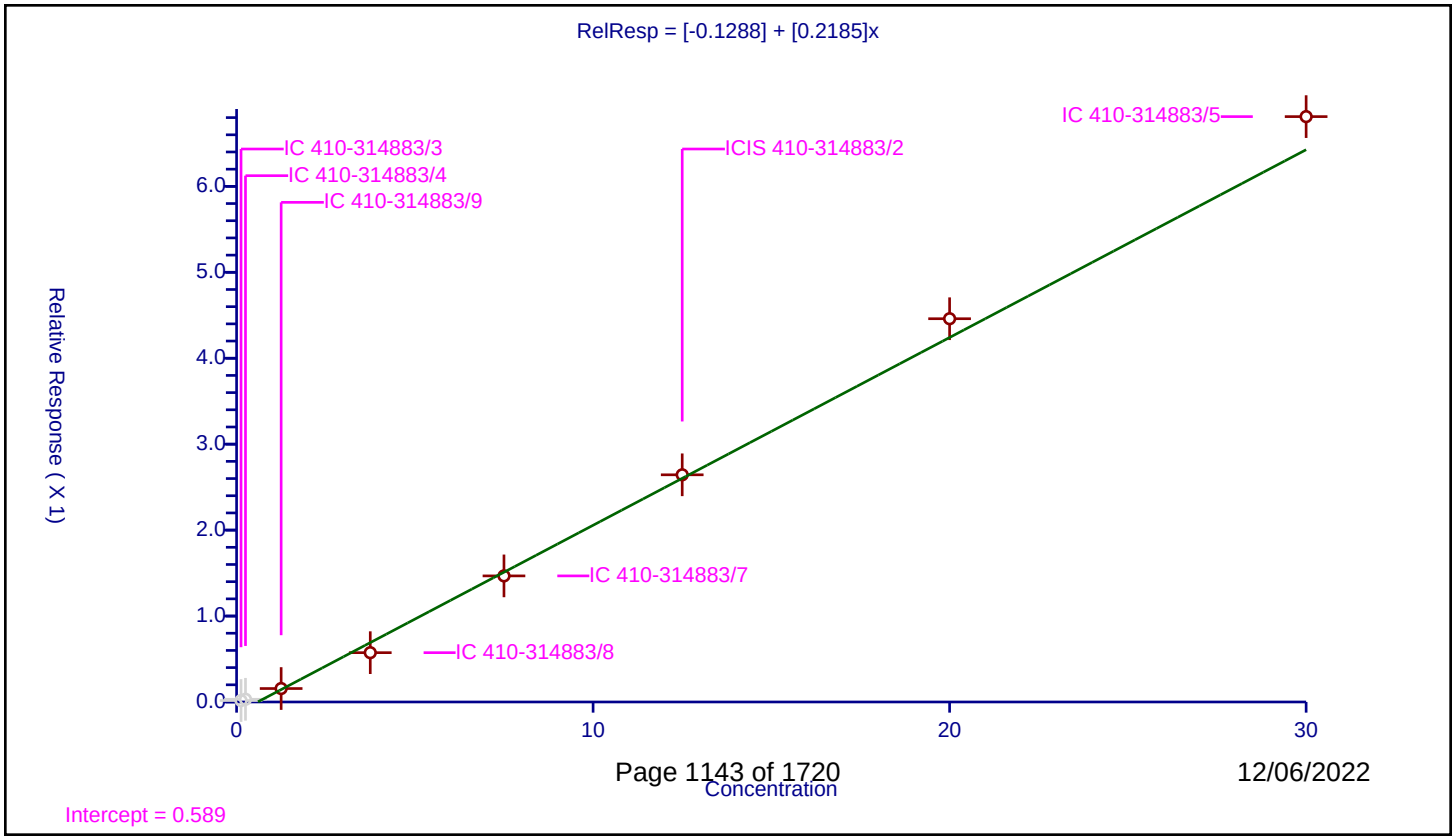
Curve Coefficients

Intercept:	-0.1288
Slope:	0.2185

Error Coefficients

Standard Error:	449000
Relative Standard Error:	8.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.016926	5.0	490662.0	0.135409	N
2	IC 410-314883/4	0.25	0.031432	5.0	470704.0	0.125727	N
3	IC 410-314883/9	1.25	0.156576	5.0	523389.0	0.125261	Y
4	IC 410-314883/8	3.75	0.573883	5.0	506053.0	0.153035	Y
5	IC 410-314883/7	7.5	1.467161	5.0	496244.0	0.195622	Y
6	ICIS 410-314883/2	12.5	2.643724	5.0	523765.0	0.211498	Y
7	IC 410-314883/6	20.0	4.45981	5.0	517475.0	0.22299	Y
8	IC 410-314883/5	30.0	6.811492	5.0	513894.0	0.22705	Y



Calibration / Di-n-butyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

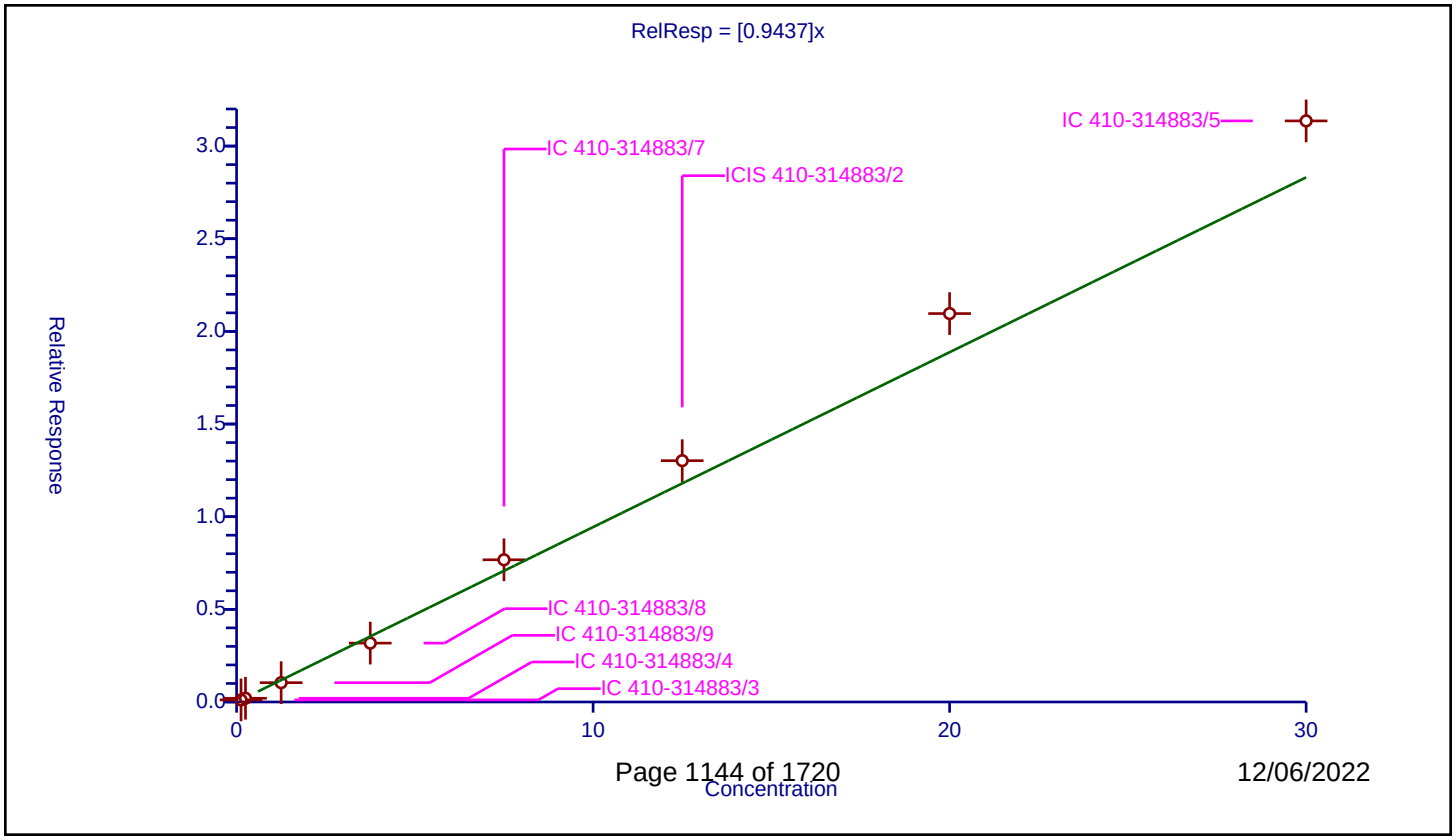
Curve Coefficients

Intercept:	0
Slope:	0.9437

Error Coefficients

Standard Error:	1590000
Relative Standard Error:	11.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.113041	5.0	490662.0	0.904329	Y
2	IC 410-314883/4	0.25	0.201284	5.0	470704.0	0.805134	Y
3	IC 410-314883/9	1.25	1.043182	5.0	523389.0	0.834546	Y
4	IC 410-314883/8	3.75	3.176841	5.0	506053.0	0.847158	Y
5	IC 410-314883/7	7.5	7.673765	5.0	496244.0	1.023169	Y
6	ICIS 410-314883/2	12.5	13.023121	5.0	523765.0	1.04185	Y
7	IC 410-314883/6	20.0	20.960172	5.0	517475.0	1.048009	Y
8	IC 410-314883/5	30.0	31.358831	5.0	513894.0	1.045294	Y



Calibration / Ethyl Parathion

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

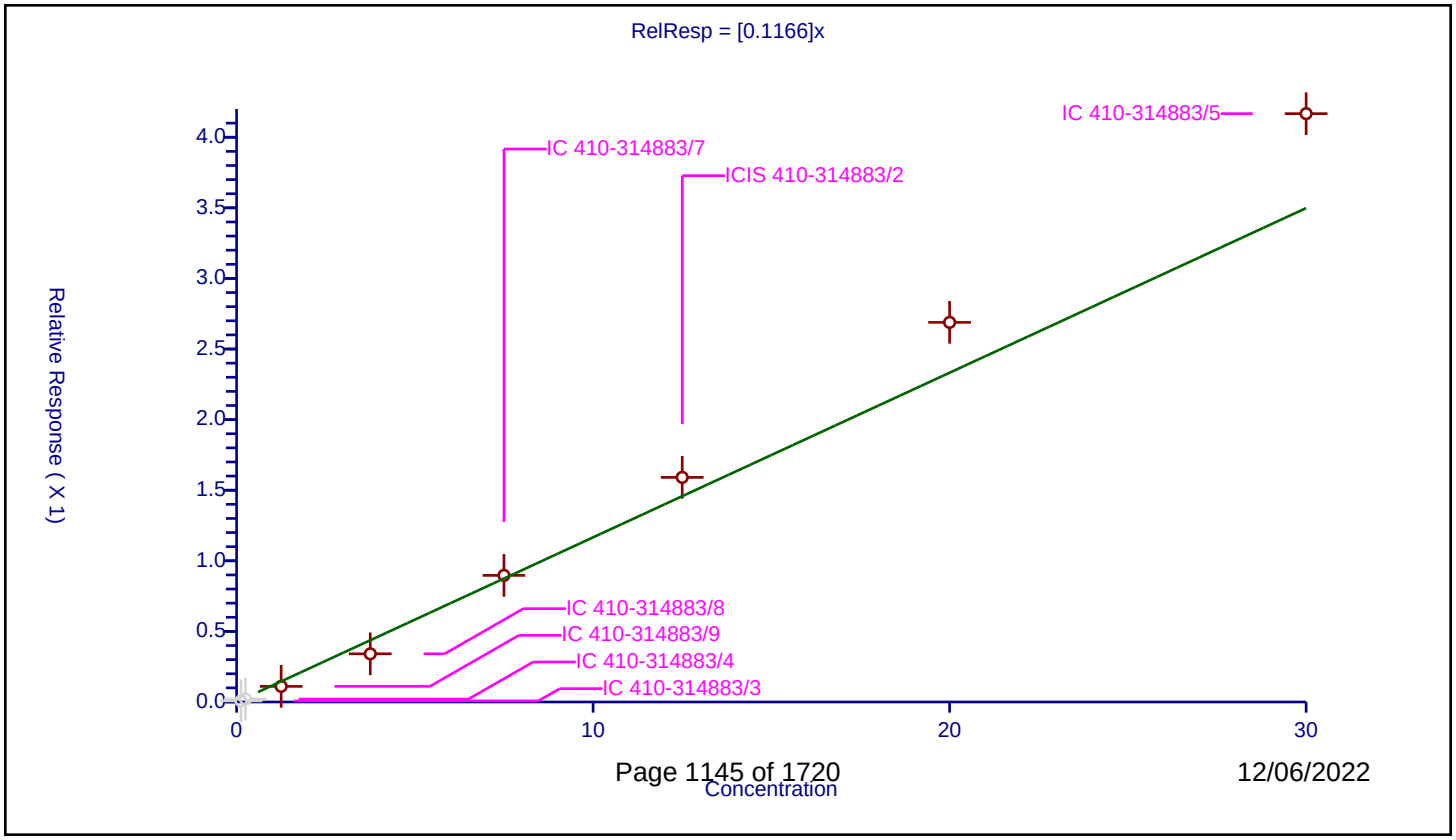
Curve Coefficients

Intercept:	0
Slope:	0.1166

Error Coefficients

Standard Error:	244000
Relative Standard Error:	18.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.960

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.007969	5.0	490662.0	0.063751	N
2	IC 410-314883/4	0.25	0.020915	5.0	470704.0	0.083662	N
3	IC 410-314883/9	1.25	0.110597	5.0	523389.0	0.088477	Y
4	IC 410-314883/8	3.75	0.34119	5.0	506053.0	0.090984	Y
5	IC 410-314883/7	7.5	0.896686	5.0	496244.0	0.119558	Y
6	ICIS 410-314883/2	12.5	1.590914	5.0	523765.0	0.127273	Y
7	IC 410-314883/6	20.0	2.688739	5.0	517475.0	0.134437	Y
8	IC 410-314883/5	30.0	4.167143	5.0	513894.0	0.138905	Y



Calibration / 4-Nitroquinoline-1-oxide

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

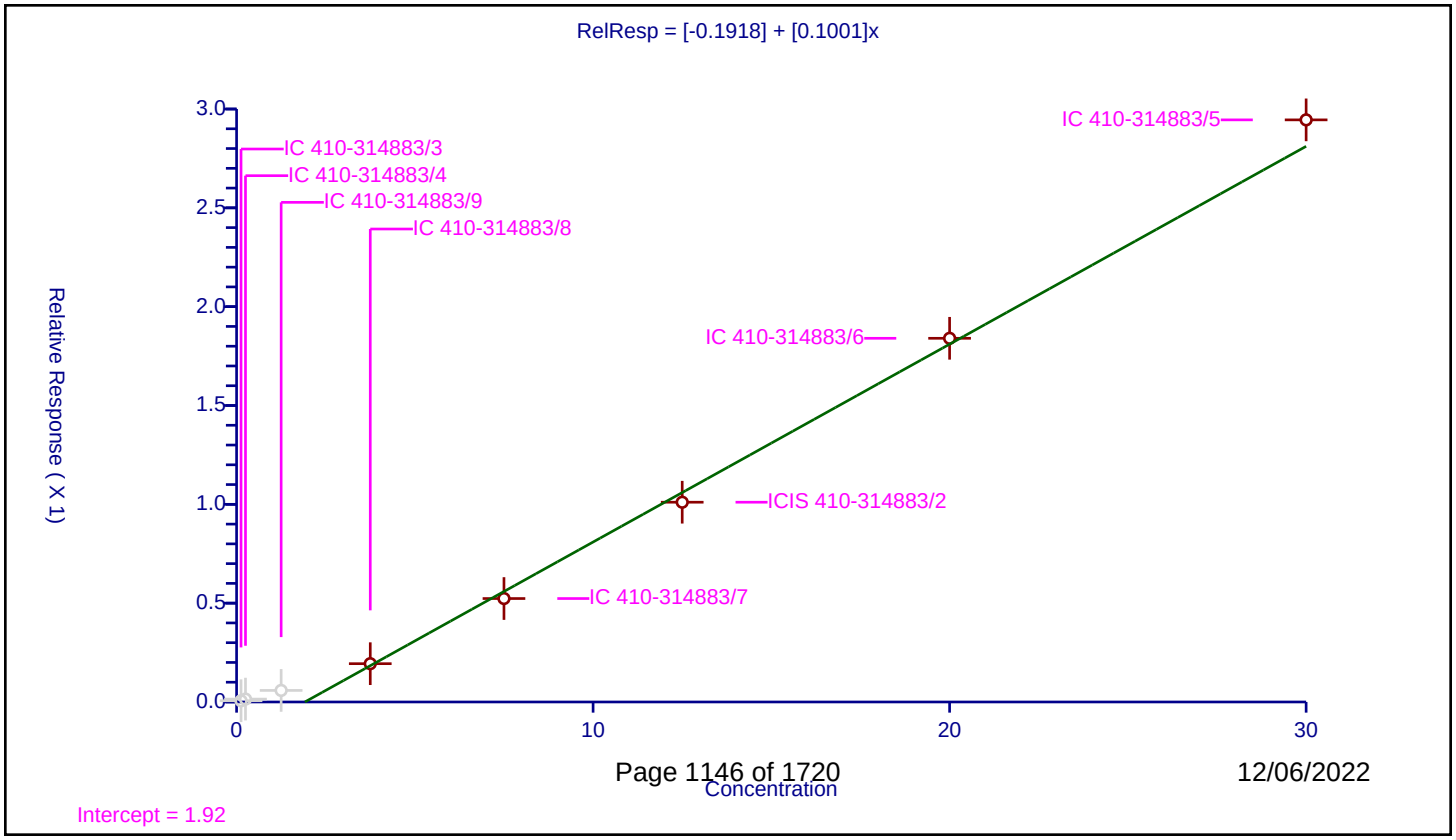
Curve Coefficients

Intercept:	-0.1918
Slope:	0.1001

Error Coefficients

Standard Error:	218000
Relative Standard Error:	4.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.006318	5.0	490662.0	0.050544	N
2	IC 410-314883/4	0.25	0.014616	5.0	470704.0	0.058466	N
3	IC 410-314883/9	1.25	0.058532	5.0	523389.0	0.046826	N
4	IC 410-314883/8	3.75	0.193754	5.0	506053.0	0.051668	Y
5	IC 410-314883/7	7.5	0.523341	5.0	496244.0	0.069779	Y
6	ICIS 410-314883/2	12.5	1.010673	5.0	523765.0	0.080854	Y
7	IC 410-314883/6	20.0	1.839983	5.0	517475.0	0.091999	Y
8	IC 410-314883/5	30.0	2.945102	5.0	513894.0	0.09817	Y



Calibration / Octachlorostyrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

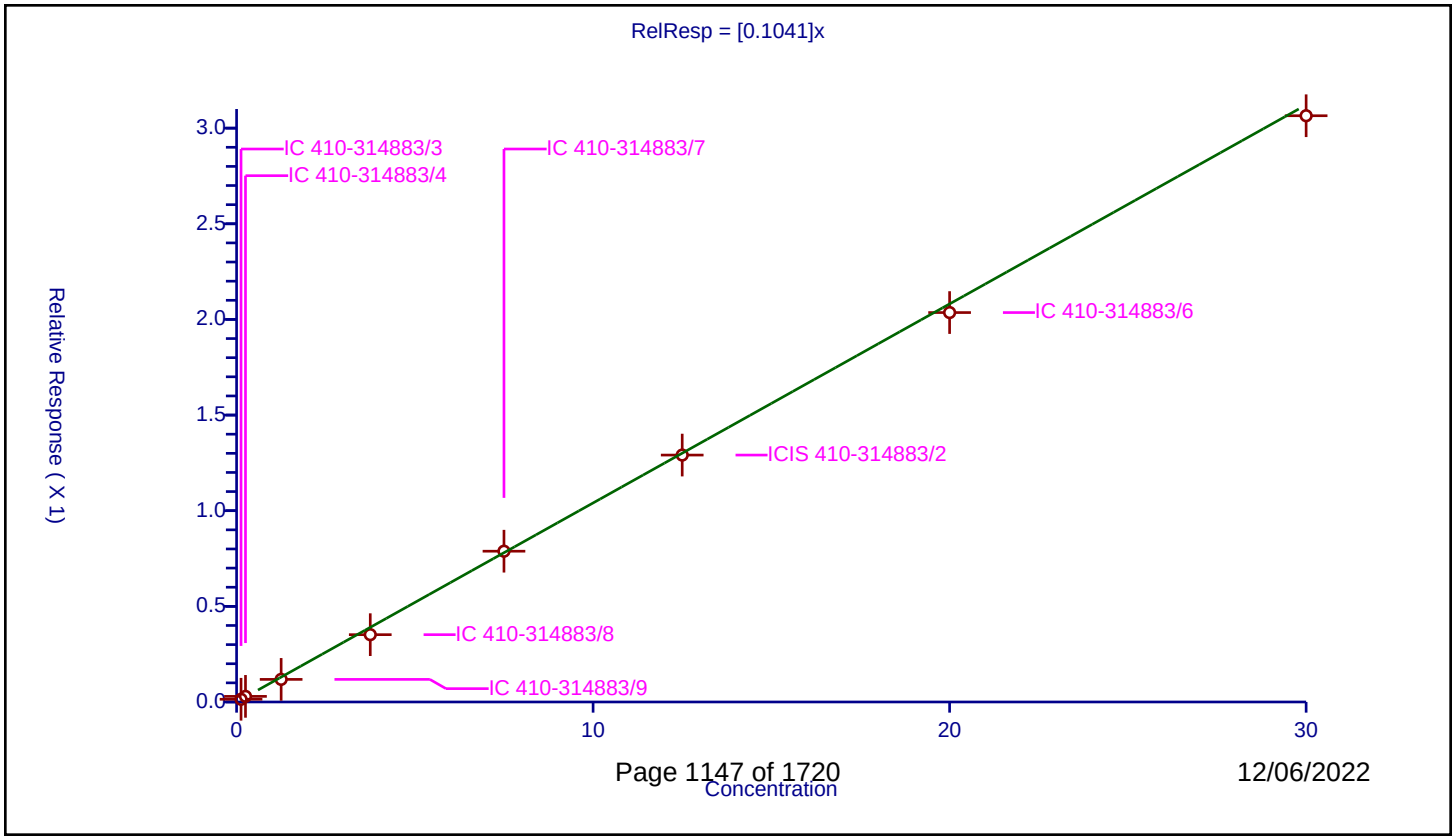
Curve Coefficients

Intercept:	0
Slope:	0.1041

Error Coefficients

Standard Error:	156000
Relative Standard Error:	8.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.014266	5.0	490662.0	0.114132	Y
2	IC 410-314883/4	0.25	0.029392	5.0	470704.0	0.117569	Y
3	IC 410-314883/9	1.25	0.118143	5.0	523389.0	0.094515	Y
4	IC 410-314883/8	3.75	0.351969	5.0	506053.0	0.093858	Y
5	IC 410-314883/7	7.5	0.788302	5.0	496244.0	0.105107	Y
6	ICIS 410-314883/2	12.5	1.290894	5.0	523765.0	0.103272	Y
7	IC 410-314883/6	20.0	2.035886	5.0	517475.0	0.101794	Y
8	IC 410-314883/5	30.0	3.064873	5.0	513894.0	0.102162	Y



Calibration / Isodrin

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

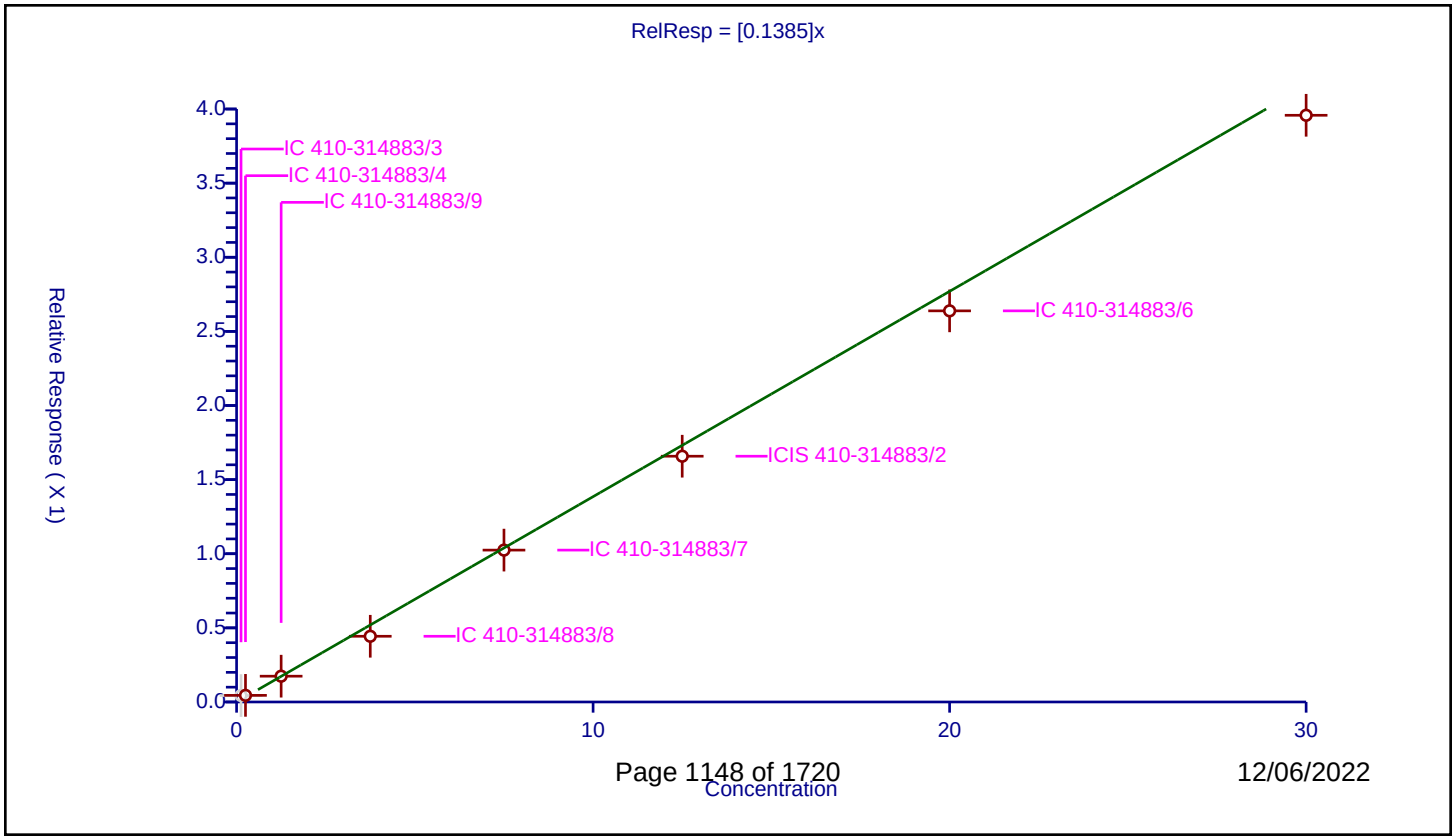
Curve Coefficients

Intercept:	0
Slope:	0.1385

Error Coefficients

Standard Error:	217000
Relative Standard Error:	13.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.975

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.043482	5.0	490662.0	0.347857	N
2	IC 410-314883/4	0.25	0.044752	5.0	470704.0	0.179008	Y
3	IC 410-314883/9	1.25	0.174048	5.0	523389.0	0.139239	Y
4	IC 410-314883/8	3.75	0.443333	5.0	506053.0	0.118222	Y
5	IC 410-314883/7	7.5	1.024516	5.0	496244.0	0.136602	Y
6	ICIS 410-314883/2	12.5	1.657852	5.0	523765.0	0.132628	Y
7	IC 410-314883/6	20.0	2.638524	5.0	517475.0	0.131926	Y
8	IC 410-314883/5	30.0	3.957655	5.0	513894.0	0.131922	Y



Calibration / Fluoranthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

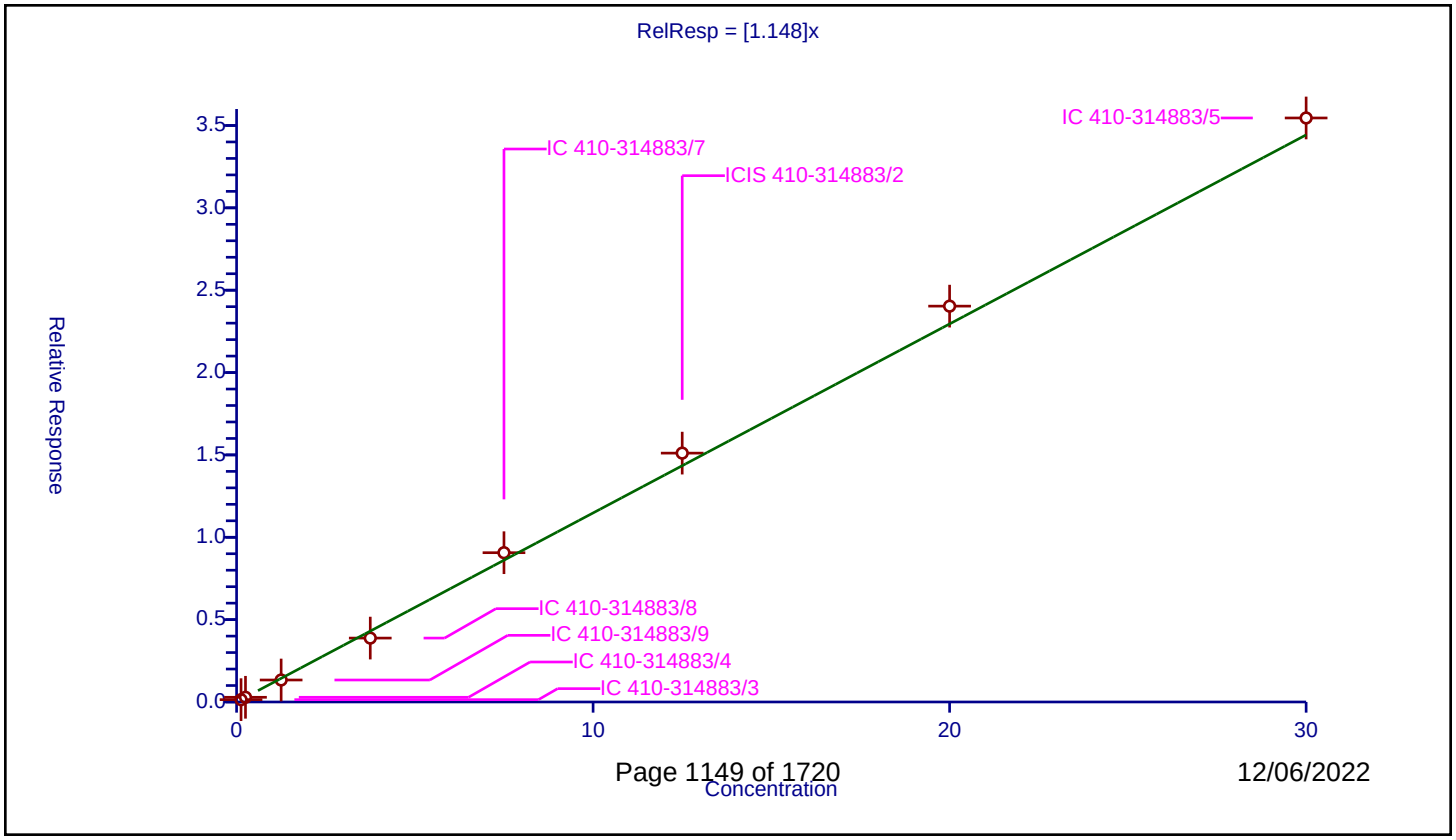
Curve Coefficients

Intercept:	0
Slope:	1.148

Error Coefficients

Standard Error:	1810000
Relative Standard Error:	5.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.142247	5.0	490662.0	1.137973	Y
2	IC 410-314883/4	0.25	0.285137	5.0	470704.0	1.140547	Y
3	IC 410-314883/9	1.25	1.334228	5.0	523389.0	1.067382	Y
4	IC 410-314883/8	3.75	3.879287	5.0	506053.0	1.034477	Y
5	IC 410-314883/7	7.5	9.063374	5.0	496244.0	1.20845	Y
6	ICIS 410-314883/2	12.5	15.10877	5.0	523765.0	1.208702	Y
7	IC 410-314883/6	20.0	24.03234	5.0	517475.0	1.201617	Y
8	IC 410-314883/5	30.0	35.45633	5.0	513894.0	1.181878	Y



Calibration / Benzidine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

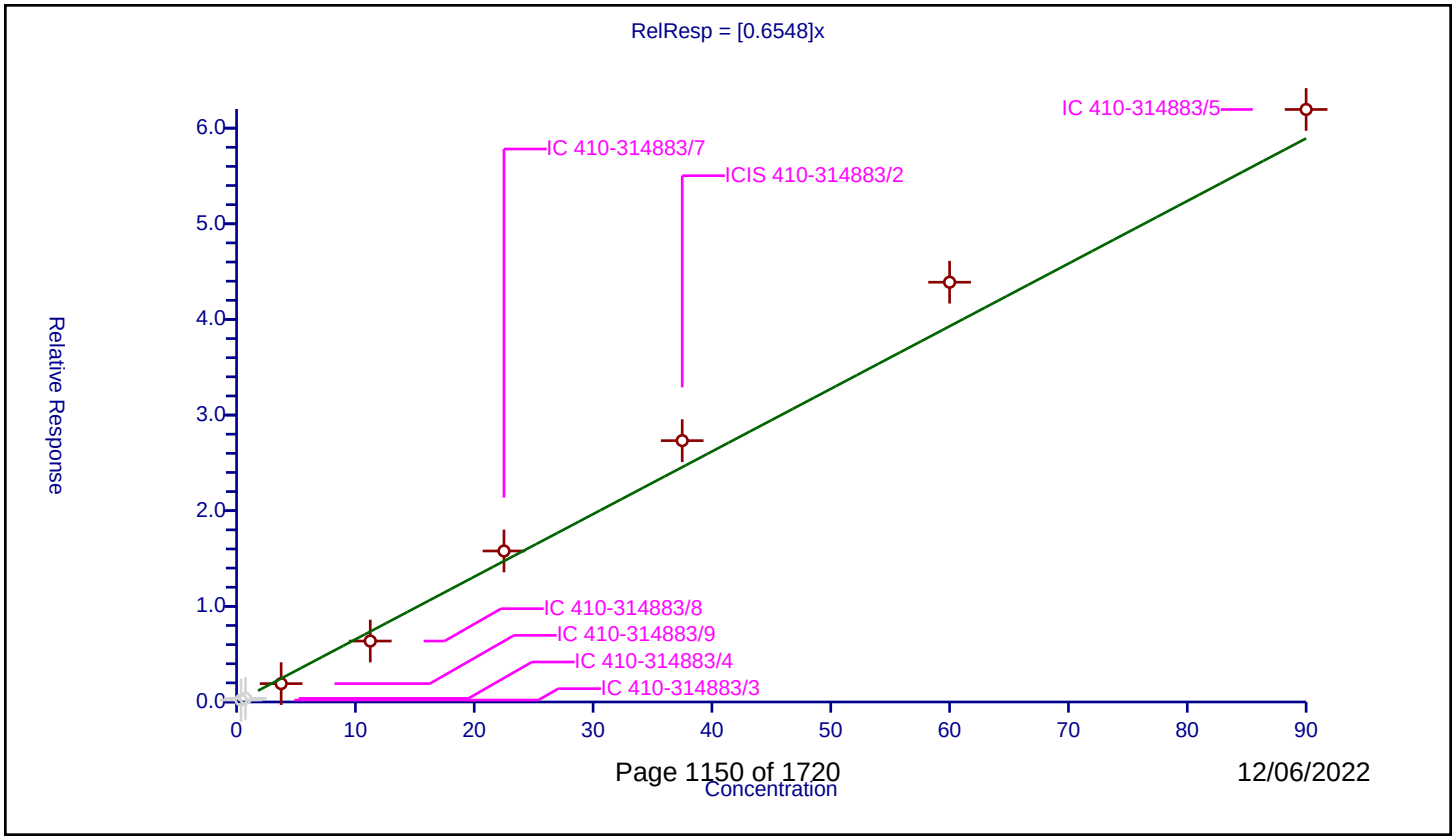
Curve Coefficients

Intercept:	0
Slope:	0.6548

Error Coefficients

Standard Error:	4020000
Relative Standard Error:	14.1
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.976

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.375	0.203349	5.0	494593.0	0.542264	N
2	IC 410-314883/4	0.75	0.380558	5.0	488822.0	0.50741	N
3	IC 410-314883/9	3.75	1.919917	5.0	547831.0	0.511978	Y
4	IC 410-314883/8	11.25	6.37328	5.0	527682.0	0.566514	Y
5	IC 410-314883/7	22.5	15.787131	5.0	525478.0	0.70165	Y
6	ICIS 410-314883/2	37.5	27.324722	5.0	552251.0	0.728659	Y
7	IC 410-314883/6	60.0	43.890333	5.0	540018.0	0.731506	Y
8	IC 410-314883/5	90.0	61.952964	5.0	547880.0	0.688366	Y



Calibration / Pyrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

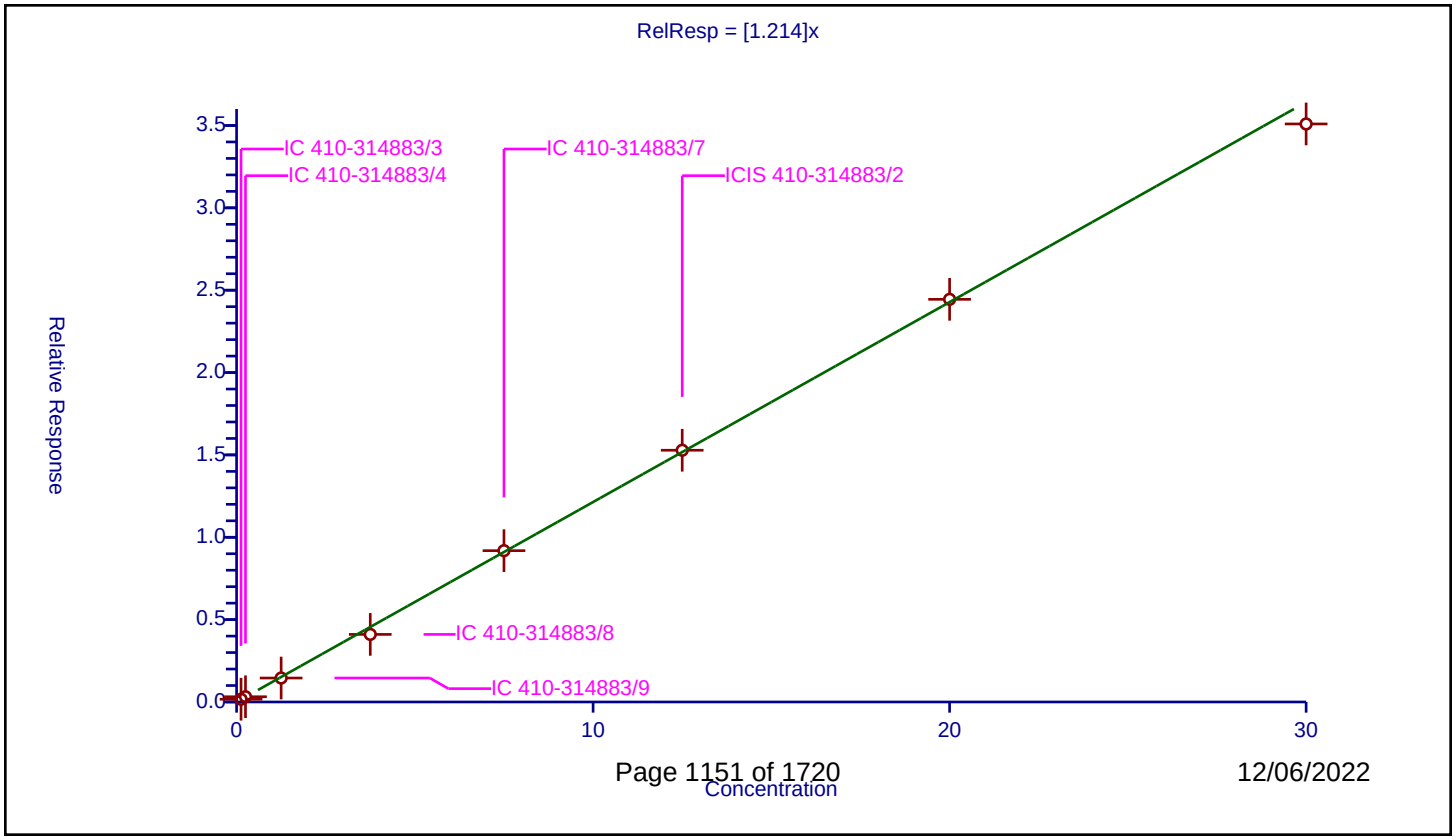
Curve Coefficients

Intercept:	0
Slope:	1.214

Error Coefficients

Standard Error:	1920000
Relative Standard Error:	6.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.167693	5.0	494593.0	1.341547	Y
2	IC 410-314883/4	0.25	0.31803	5.0	488822.0	1.27212	Y
3	IC 410-314883/9	1.25	1.45387	5.0	547831.0	1.163096	Y
4	IC 410-314883/8	3.75	4.103646	5.0	527682.0	1.094306	Y
5	IC 410-314883/7	7.5	9.187407	5.0	525478.0	1.224988	Y
6	ICIS 410-314883/2	12.5	15.283567	5.0	552251.0	1.222685	Y
7	IC 410-314883/6	20.0	24.445889	5.0	540018.0	1.222294	Y
8	IC 410-314883/5	30.0	35.093597	5.0	547880.0	1.169787	Y



Calibration / p-Terphenyl-d14

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

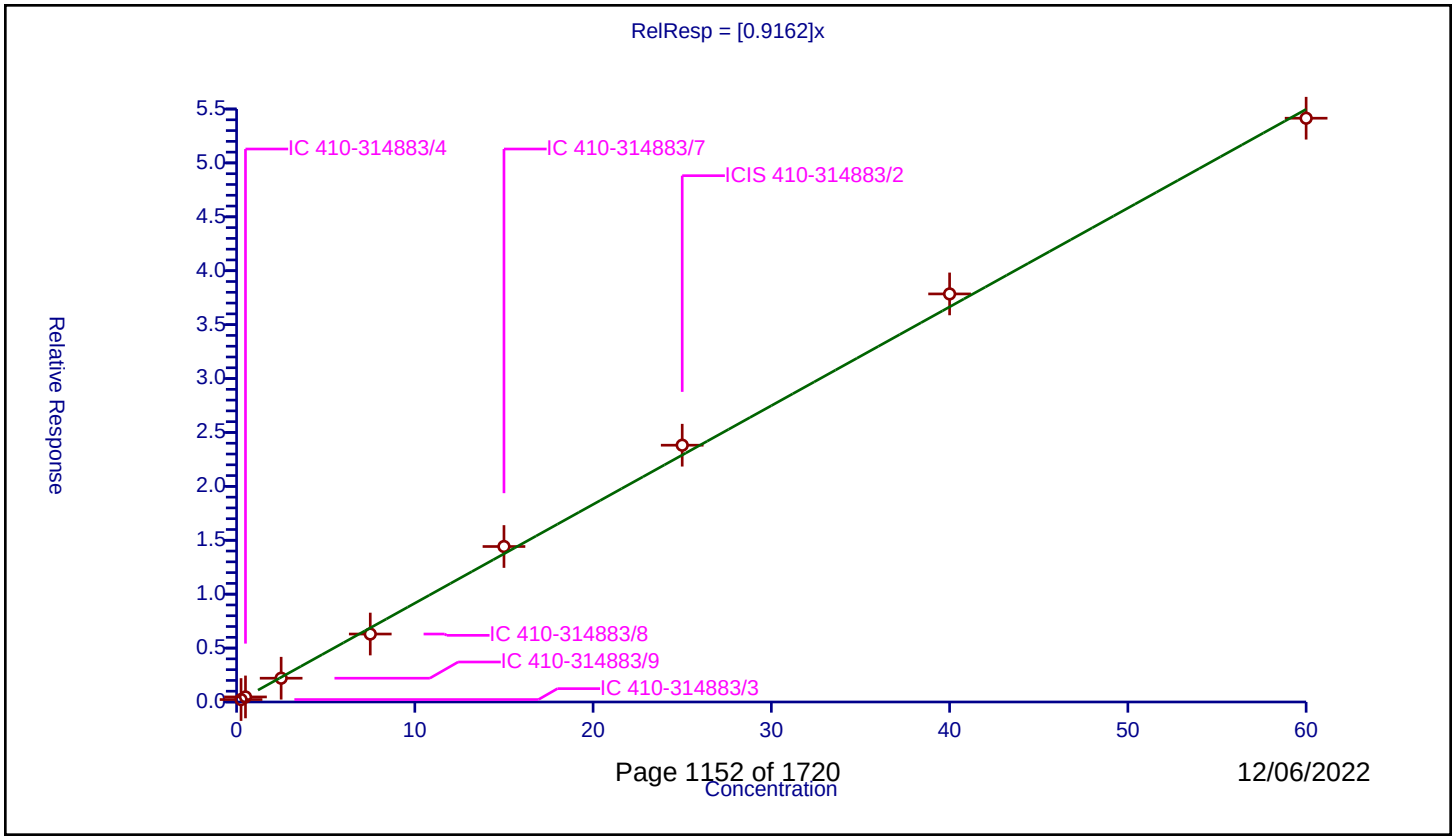
Curve Coefficients

Intercept:	0
Slope:	0.9162

Error Coefficients

Standard Error:	2970000
Relative Standard Error:	4.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.25	0.226247	5.0	494593.0	0.904987	Y
2	IC 410-314883/4	0.5	0.469649	5.0	488822.0	0.939299	Y
3	IC 410-314883/9	2.5	2.205333	5.0	547831.0	0.882133	Y
4	IC 410-314883/8	7.5	6.303446	5.0	527682.0	0.840459	Y
5	IC 410-314883/7	15.0	14.420661	5.0	525478.0	0.961377	Y
6	ICIS 410-314883/2	25.0	23.81782	5.0	552251.0	0.952713	Y
7	IC 410-314883/6	40.0	37.848951	5.0	540018.0	0.946224	Y
8	IC 410-314883/5	60.0	54.145753	5.0	547880.0	0.902429	Y



Calibration / p-Dimethylamino azobenzene

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

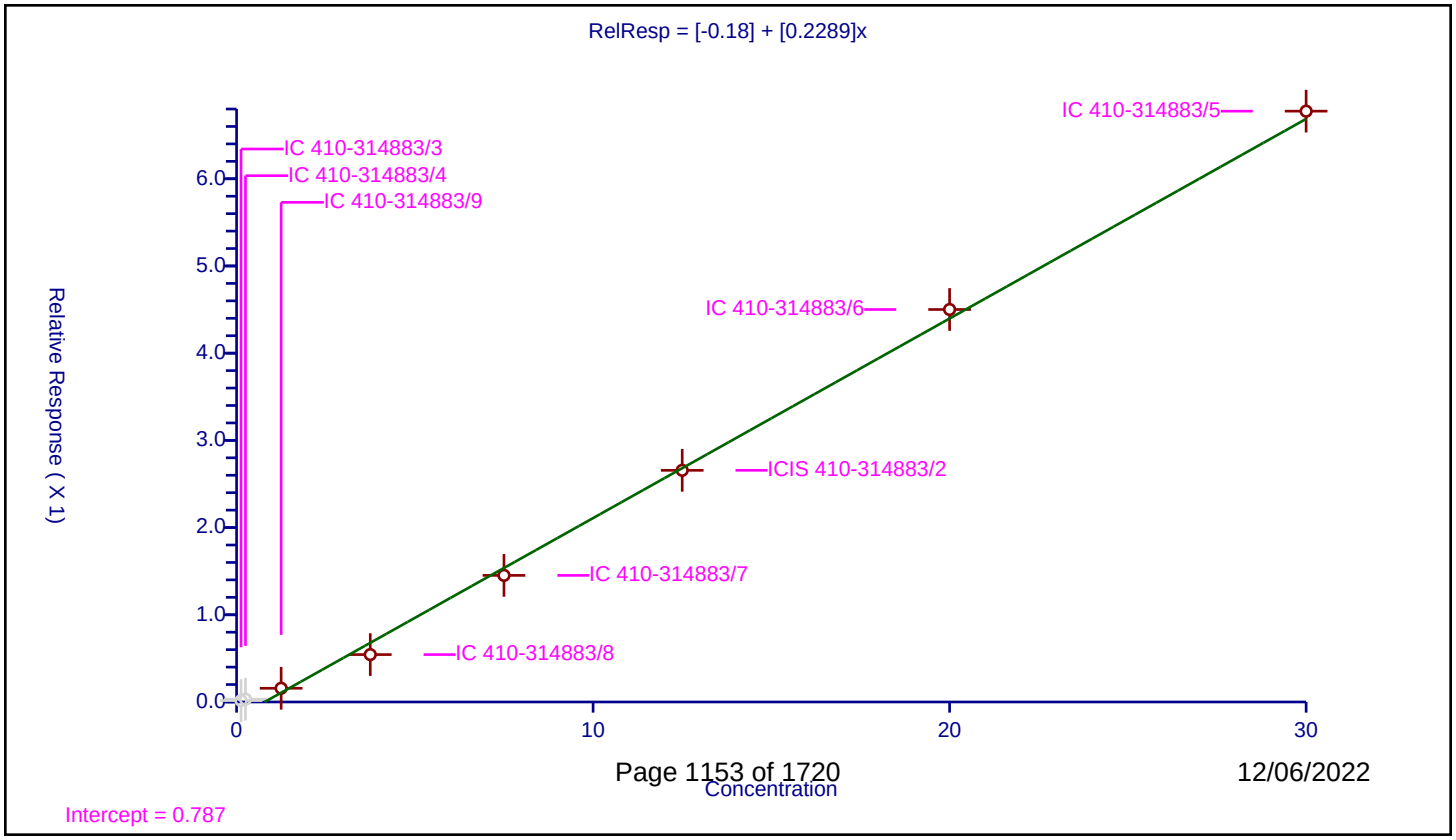
Curve Coefficients

Intercept:	-0.18
Slope:	0.2289

Error Coefficients

Standard Error:	474000
Relative Standard Error:	12.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.016145	5.0	494593.0	0.129157	N
2	IC 410-314883/4	0.25	0.032251	5.0	488822.0	0.129004	N
3	IC 410-314883/9	1.25	0.157357	5.0	547831.0	0.125886	Y
4	IC 410-314883/8	3.75	0.543519	5.0	527682.0	0.144938	Y
5	IC 410-314883/7	7.5	1.451859	5.0	525478.0	0.193581	Y
6	ICIS 410-314883/2	12.5	2.656564	5.0	552251.0	0.212525	Y
7	IC 410-314883/6	20.0	4.501091	5.0	540018.0	0.225055	Y
8	IC 410-314883/5	30.0	6.77538	5.0	547880.0	0.225846	Y



Calibration / Chlorobenzilate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

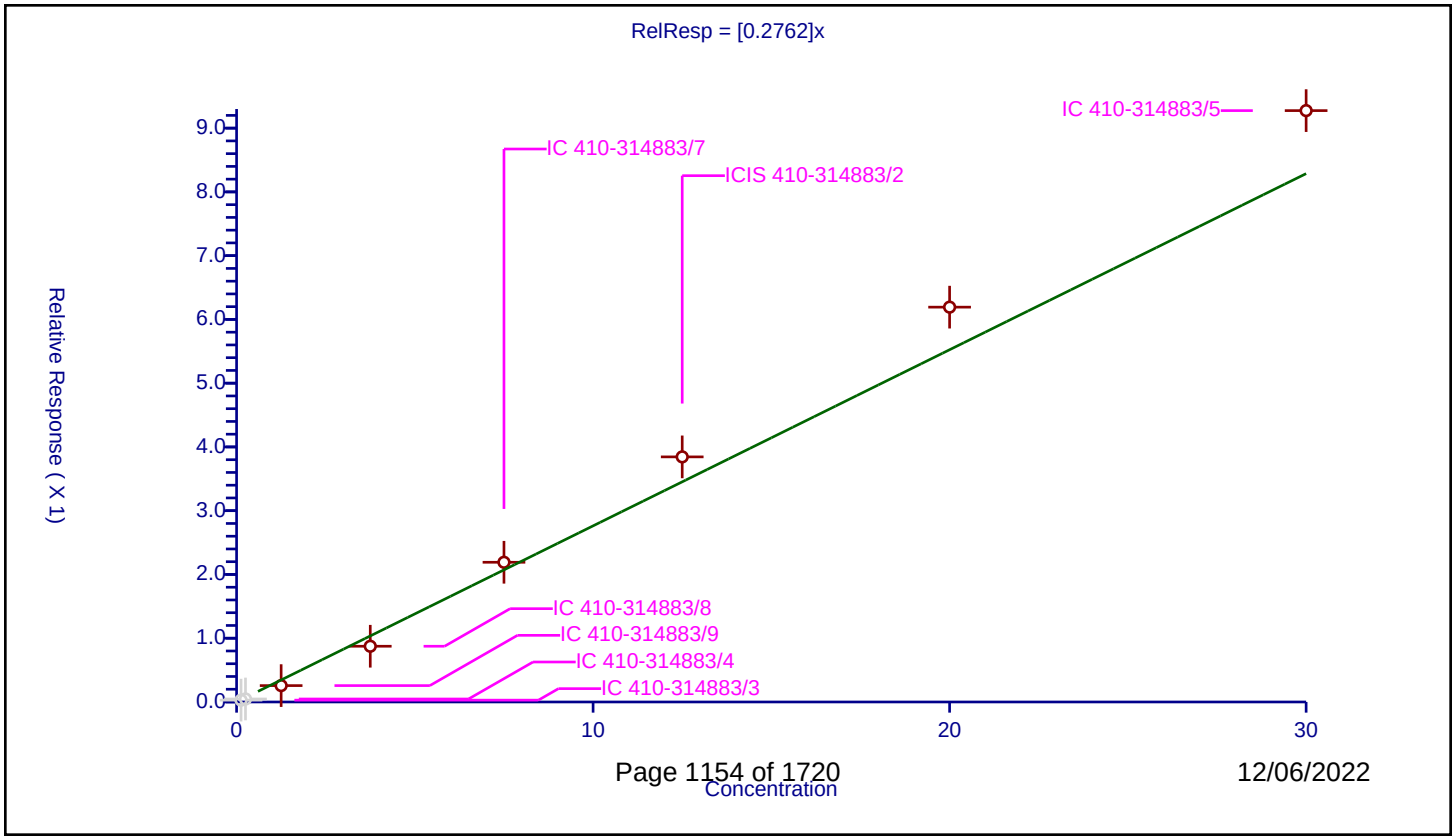
Curve Coefficients

Intercept:	0
Slope:	0.2762

Error Coefficients

Standard Error:	587000
Relative Standard Error:	16.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.969

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.029105	5.0	494593.0	0.232838	N
2	IC 410-314883/4	0.25	0.047113	5.0	488822.0	0.188453	N
3	IC 410-314883/9	1.25	0.257141	5.0	547831.0	0.205713	Y
4	IC 410-314883/8	3.75	0.874267	5.0	527682.0	0.233138	Y
5	IC 410-314883/7	7.5	2.191338	5.0	525478.0	0.292178	Y
6	ICIS 410-314883/2	12.5	3.844122	5.0	552251.0	0.30753	Y
7	IC 410-314883/6	20.0	6.192618	5.0	540018.0	0.309631	Y
8	IC 410-314883/5	30.0	9.275106	5.0	547880.0	0.30917	Y



Calibration / 3,3'-Dimethylbenzidine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

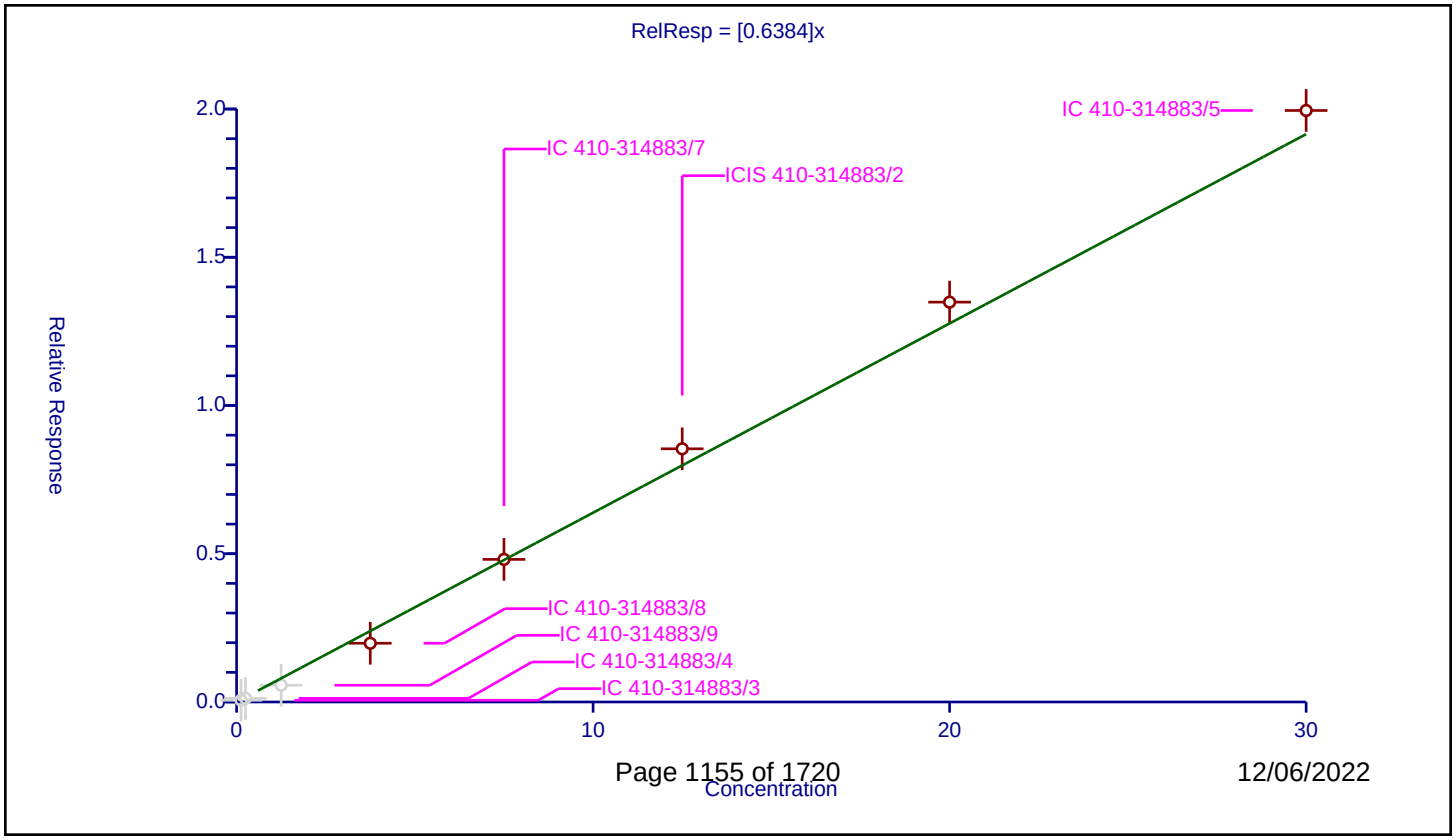
Curve Coefficients

Intercept:	0
Slope:	0.6384

Error Coefficients

Standard Error:	1420000
Relative Standard Error:	10.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.059109	5.0	494593.0	0.472874	N
2	IC 410-314883/4	0.25	0.123501	5.0	488822.0	0.494004	N
3	IC 410-314883/9	1.25	0.565284	5.0	547831.0	0.452227	N
4	IC 410-314883/8	3.75	1.980682	5.0	527682.0	0.528182	Y
5	IC 410-314883/7	7.5	4.809583	5.0	525478.0	0.641278	Y
6	ICIS 410-314883/2	12.5	8.539405	5.0	552251.0	0.683152	Y
7	IC 410-314883/6	20.0	13.486458	5.0	540018.0	0.674323	Y
8	IC 410-314883/5	30.0	19.950938	5.0	547880.0	0.665031	Y



Calibration / Butyl benzyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

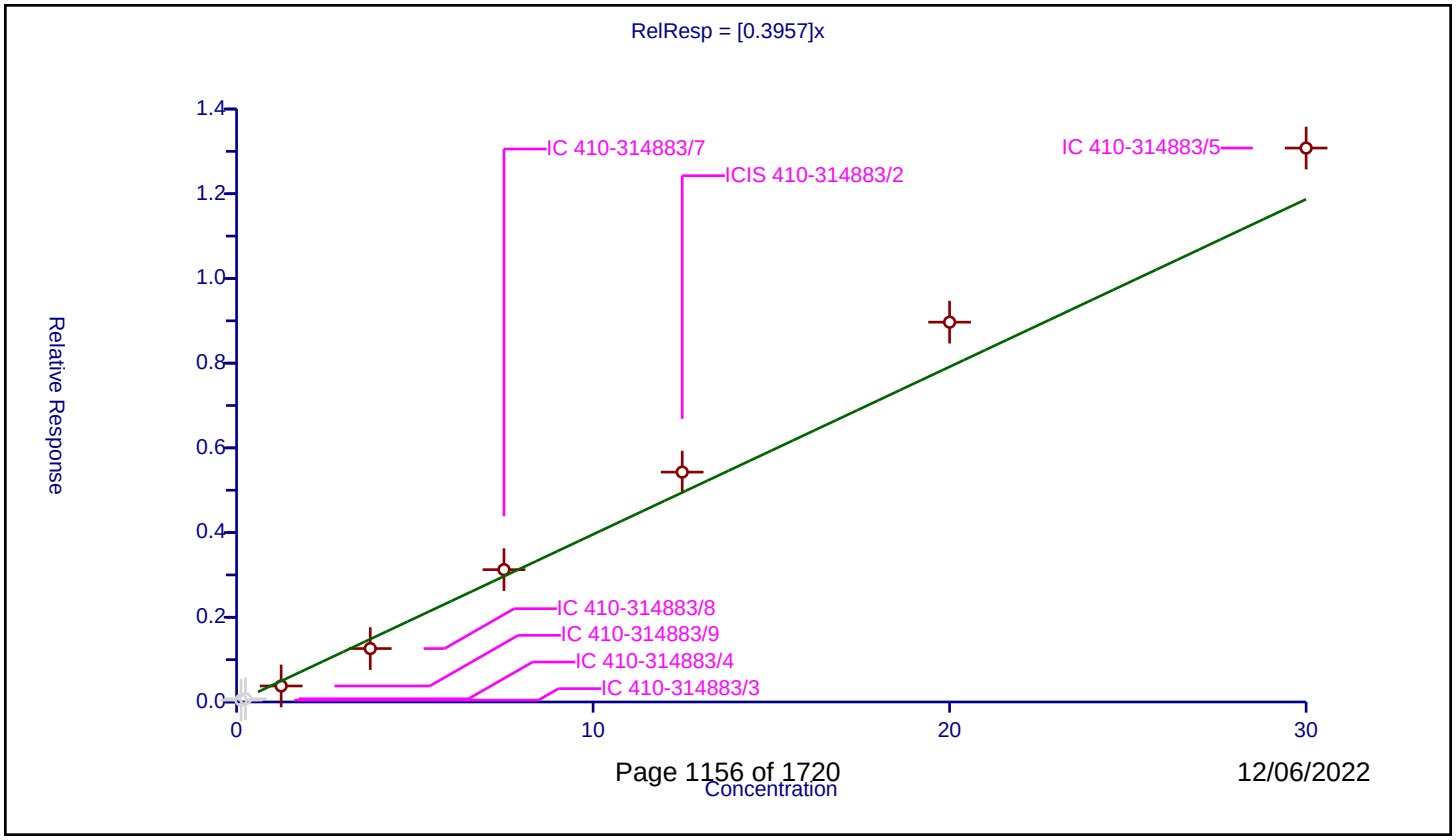
Curve Coefficients

Intercept:	0
Slope:	0.3957

Error Coefficients

Standard Error:	834000
Relative Standard Error:	15.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.972

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.043622	5.0	494593.0	0.348974	N
2	IC 410-314883/4	0.25	0.075774	5.0	488822.0	0.303096	N
3	IC 410-314883/9	1.25	0.378164	5.0	547831.0	0.302531	Y
4	IC 410-314883/8	3.75	1.261366	5.0	527682.0	0.336364	Y
5	IC 410-314883/7	7.5	3.124232	5.0	525478.0	0.416564	Y
6	ICIS 410-314883/2	12.5	5.427414	5.0	552251.0	0.434193	Y
7	IC 410-314883/6	20.0	8.967951	5.0	540018.0	0.448398	Y
8	IC 410-314883/5	30.0	13.078256	5.0	547880.0	0.435942	Y



Calibration / 2-Acetylaminofluorene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

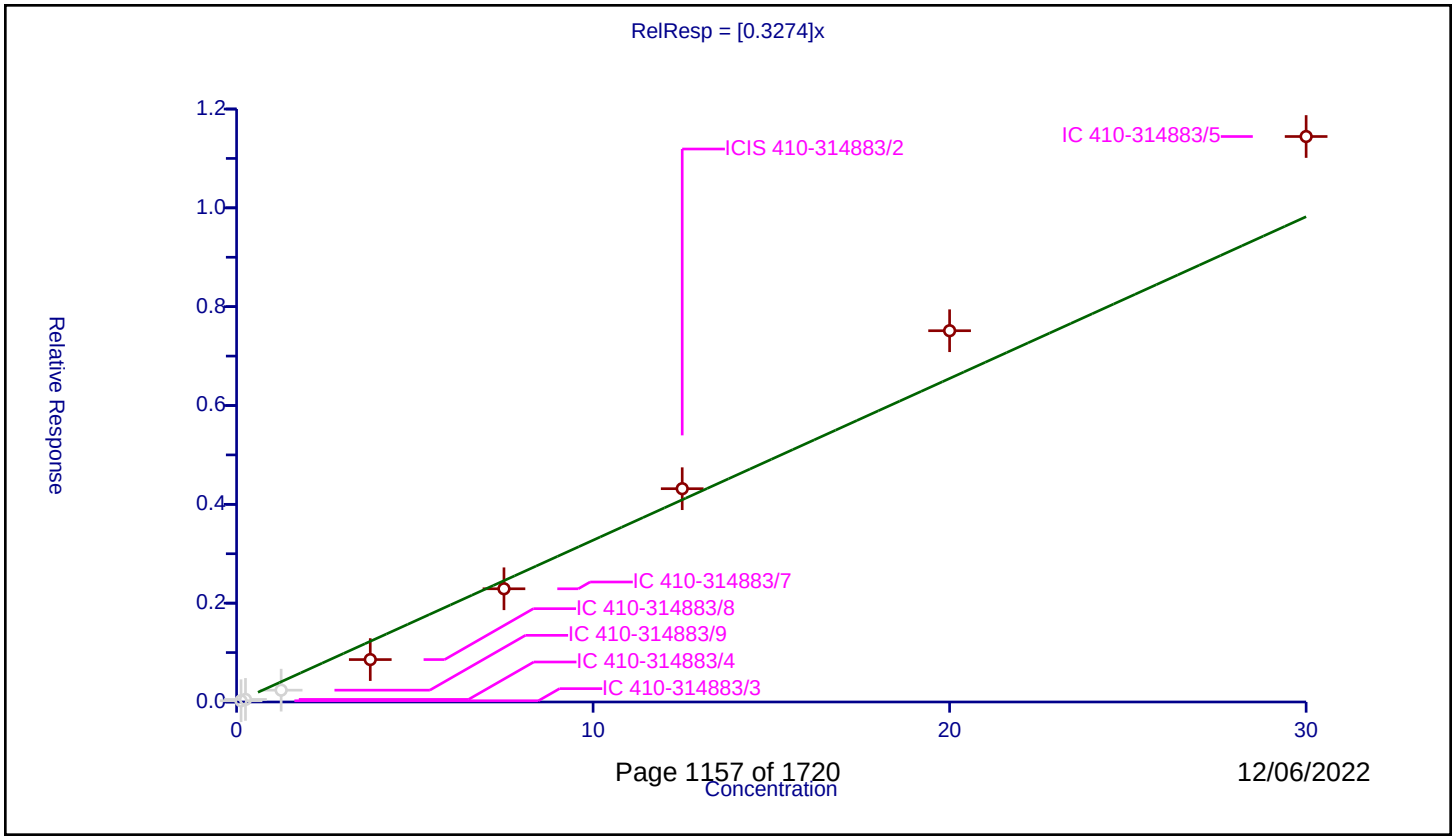
Curve Coefficients

Intercept:	0
Slope:	0.3274

Error Coefficients

Standard Error:	794000
Relative Standard Error:	19.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.946

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.02496	5.0	494593.0	0.199679	N
2	IC 410-314883/4	0.25	0.052033	5.0	488822.0	0.208133	N
3	IC 410-314883/9	1.25	0.23917	5.0	547831.0	0.191336	N
4	IC 410-314883/8	3.75	0.858263	5.0	527682.0	0.22887	Y
5	IC 410-314883/7	7.5	2.291219	5.0	525478.0	0.305496	Y
6	ICIS 410-314883/2	12.5	4.316488	5.0	552251.0	0.345319	Y
7	IC 410-314883/6	20.0	7.513092	5.0	540018.0	0.375655	Y
8	IC 410-314883/5	30.0	11.443792	5.0	547880.0	0.38146	Y



Calibration / 3,3'-Dichlorobenzidine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

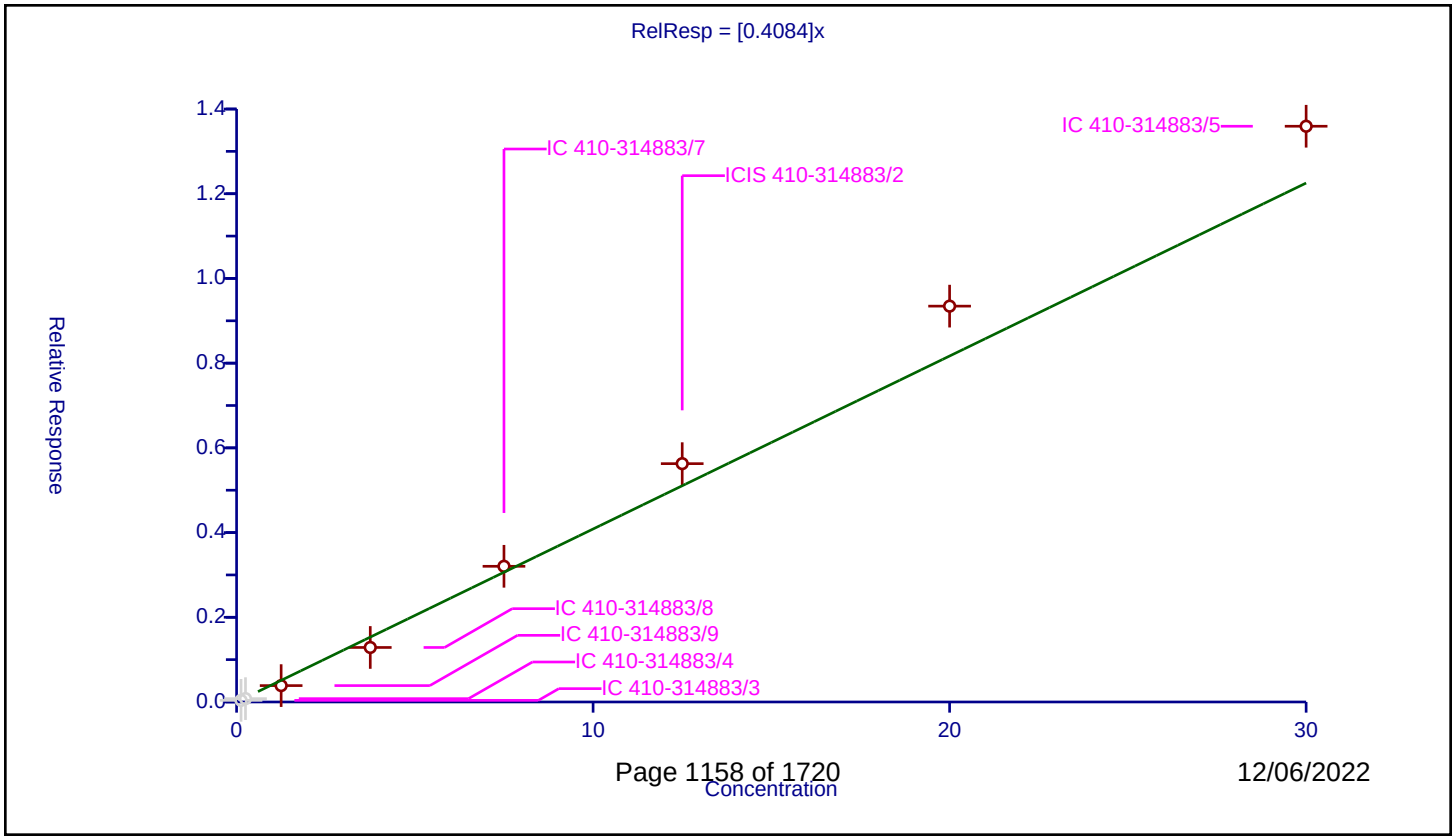
Curve Coefficients

Intercept:	0
Slope:	0.4084

Error Coefficients

Standard Error:	867000
Relative Standard Error:	16.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.970

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.038982	5.0	494593.0	0.311852	N
2	IC 410-314883/4	0.25	0.079211	5.0	488822.0	0.316843	N
3	IC 410-314883/9	1.25	0.386807	5.0	547831.0	0.309446	Y
4	IC 410-314883/8	3.75	1.28748	5.0	527682.0	0.343328	Y
5	IC 410-314883/7	7.5	3.203664	5.0	525478.0	0.427155	Y
6	ICIS 410-314883/2	12.5	5.626998	5.0	552251.0	0.45016	Y
7	IC 410-314883/6	20.0	9.3463	5.0	540018.0	0.467315	Y
8	IC 410-314883/5	30.0	13.593168	5.0	547880.0	0.453106	Y



Calibration / 4,4'-Methylene bis(2-chloroaniline)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

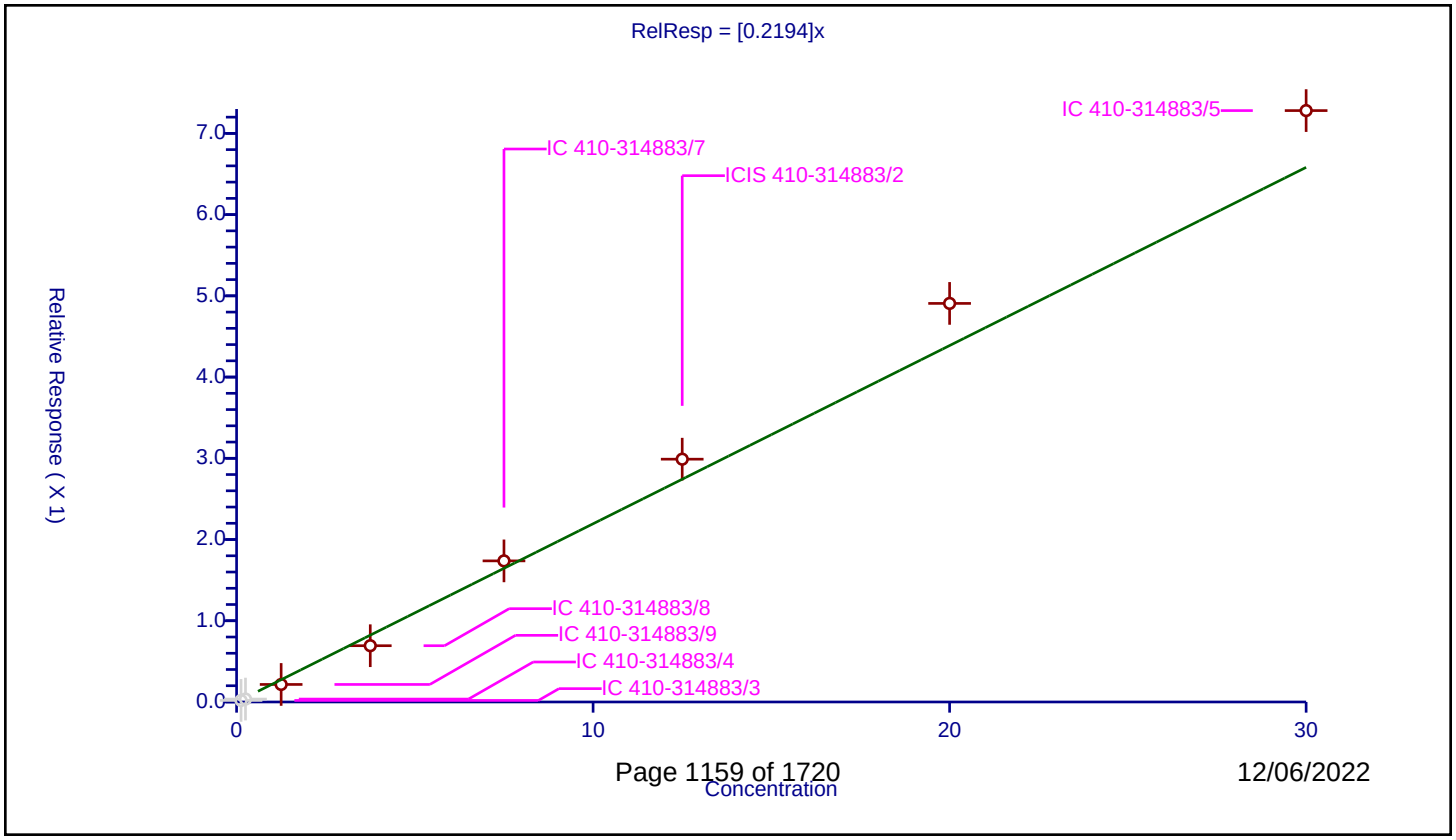
Curve Coefficients

Intercept:	0
Slope:	0.2194

Error Coefficients

Standard Error:	462000
Relative Standard Error:	14.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.975

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.019238	5.0	494593.0	0.153904	N
2	IC 410-314883/4	0.25	0.035811	5.0	488822.0	0.143242	N
3	IC 410-314883/9	1.25	0.215979	5.0	547831.0	0.172783	Y
4	IC 410-314883/8	3.75	0.692984	5.0	527682.0	0.184796	Y
5	IC 410-314883/7	7.5	1.737085	5.0	525478.0	0.231611	Y
6	ICIS 410-314883/2	12.5	2.989157	5.0	552251.0	0.239133	Y
7	IC 410-314883/6	20.0	4.906892	5.0	540018.0	0.245345	Y
8	IC 410-314883/5	30.0	7.280554	5.0	547880.0	0.242685	Y



Calibration / Benzo[a]anthracene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

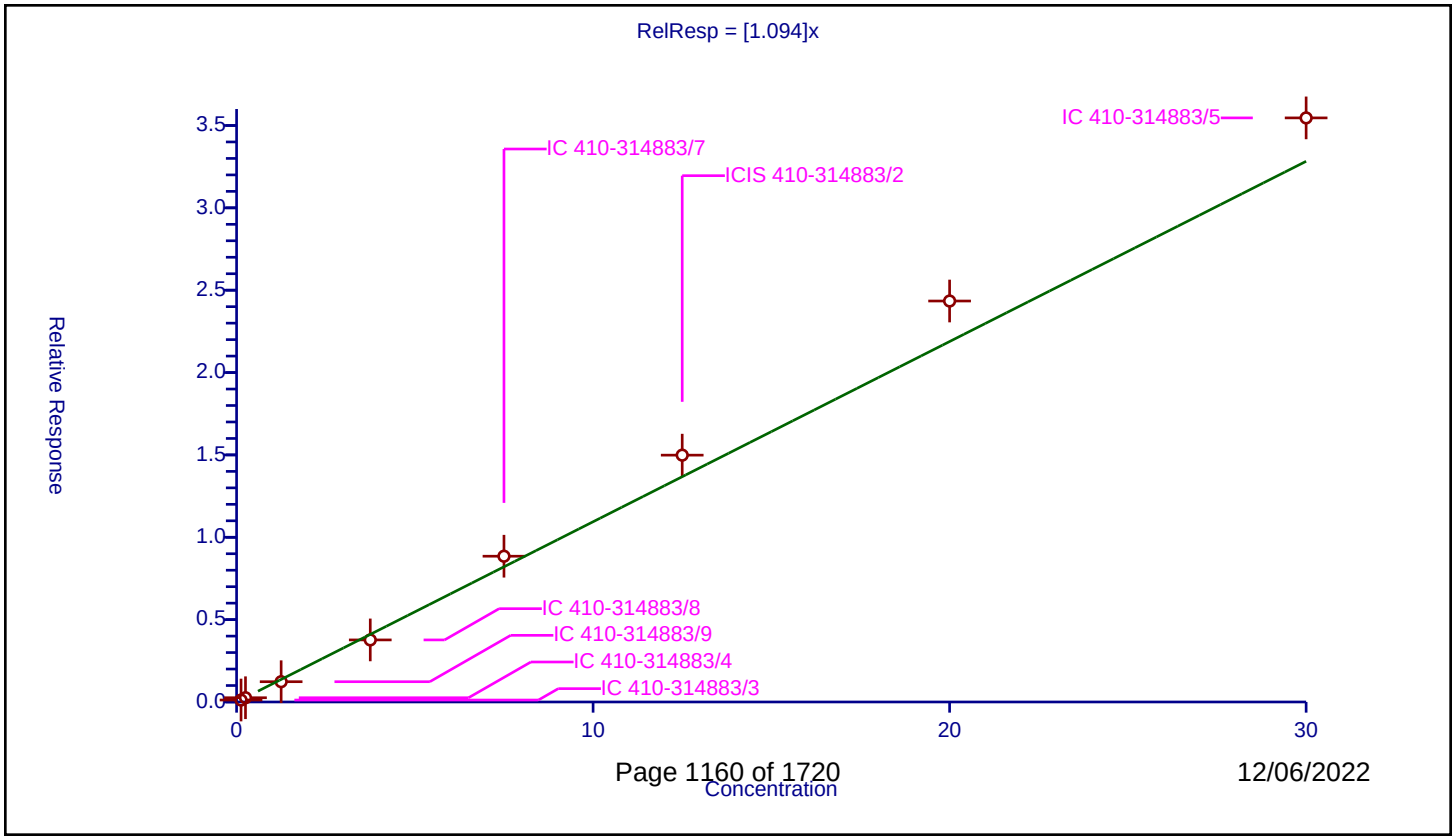
Curve Coefficients

Intercept:	0
Slope:	1.094

Error Coefficients

Standard Error:	1920000
Relative Standard Error:	10.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.11931	5.0	494593.0	0.954482	Y
2	IC 410-314883/4	0.25	0.257732	5.0	488822.0	1.030927	Y
3	IC 410-314883/9	1.25	1.231584	5.0	547831.0	0.985267	Y
4	IC 410-314883/8	3.75	3.76743	5.0	527682.0	1.004648	Y
5	IC 410-314883/7	7.5	8.849638	5.0	525478.0	1.179952	Y
6	ICIS 410-314883/2	12.5	14.985541	5.0	552251.0	1.198843	Y
7	IC 410-314883/6	20.0	24.342818	5.0	540018.0	1.217141	Y
8	IC 410-314883/5	30.0	35.460064	5.0	547880.0	1.182002	Y



Calibration / Chrysene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

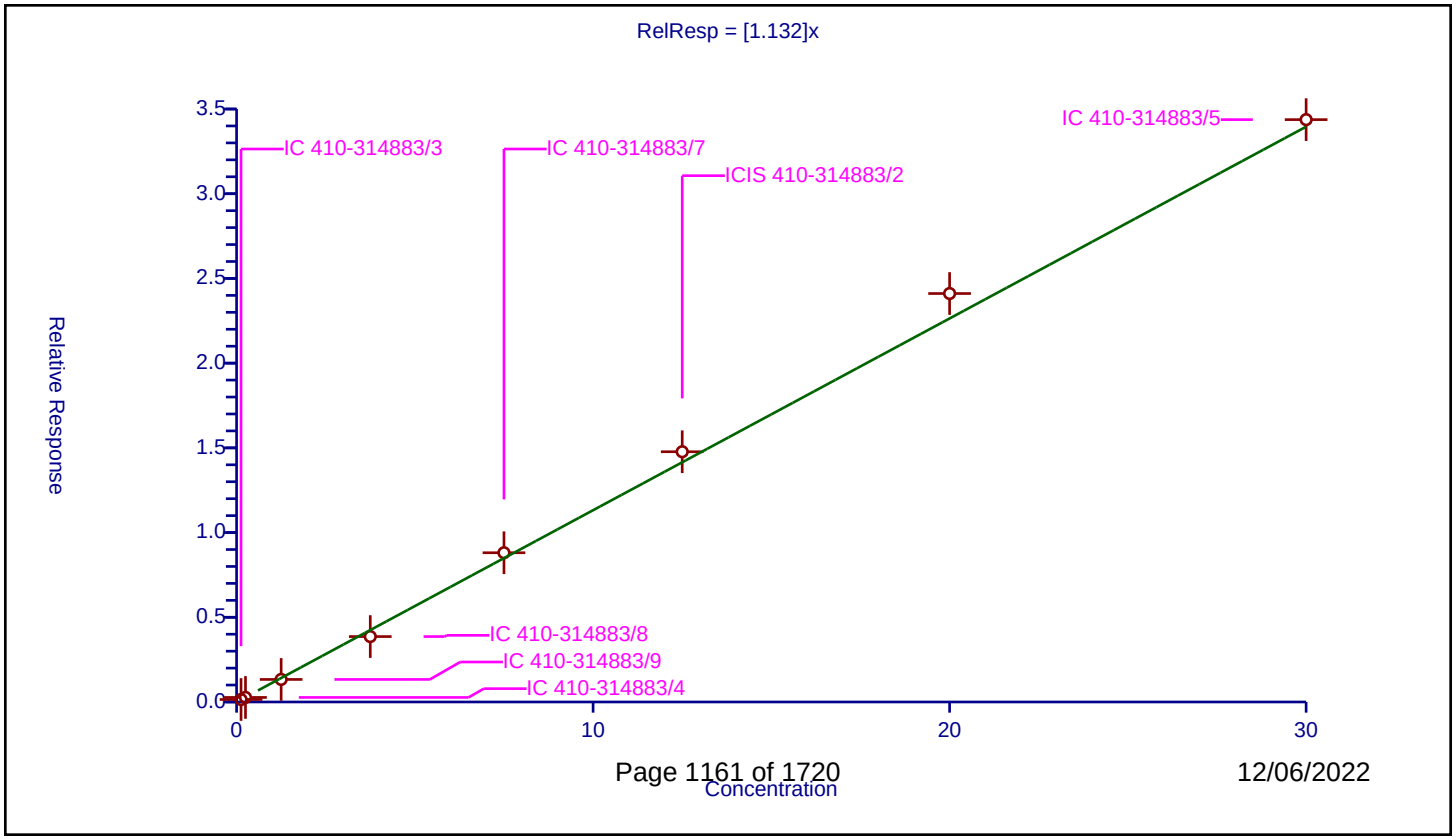
Curve Coefficients

Intercept:	0
Slope:	1.132

Error Coefficients

Standard Error:	1880000
Relative Standard Error:	5.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.147475	5.0	494593.0	1.179798	Y
2	IC 410-314883/4	0.25	0.268093	5.0	488822.0	1.072374	Y
3	IC 410-314883/9	1.25	1.331423	5.0	547831.0	1.065139	Y
4	IC 410-314883/8	3.75	3.862345	5.0	527682.0	1.029959	Y
5	IC 410-314883/7	7.5	8.808932	5.0	525478.0	1.174524	Y
6	ICIS 410-314883/2	12.5	14.771499	5.0	552251.0	1.18172	Y
7	IC 410-314883/6	20.0	24.109761	5.0	540018.0	1.205488	Y
8	IC 410-314883/5	30.0	34.37406	5.0	547880.0	1.145802	Y



Calibration / Bis(2-ethylhexyl) phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

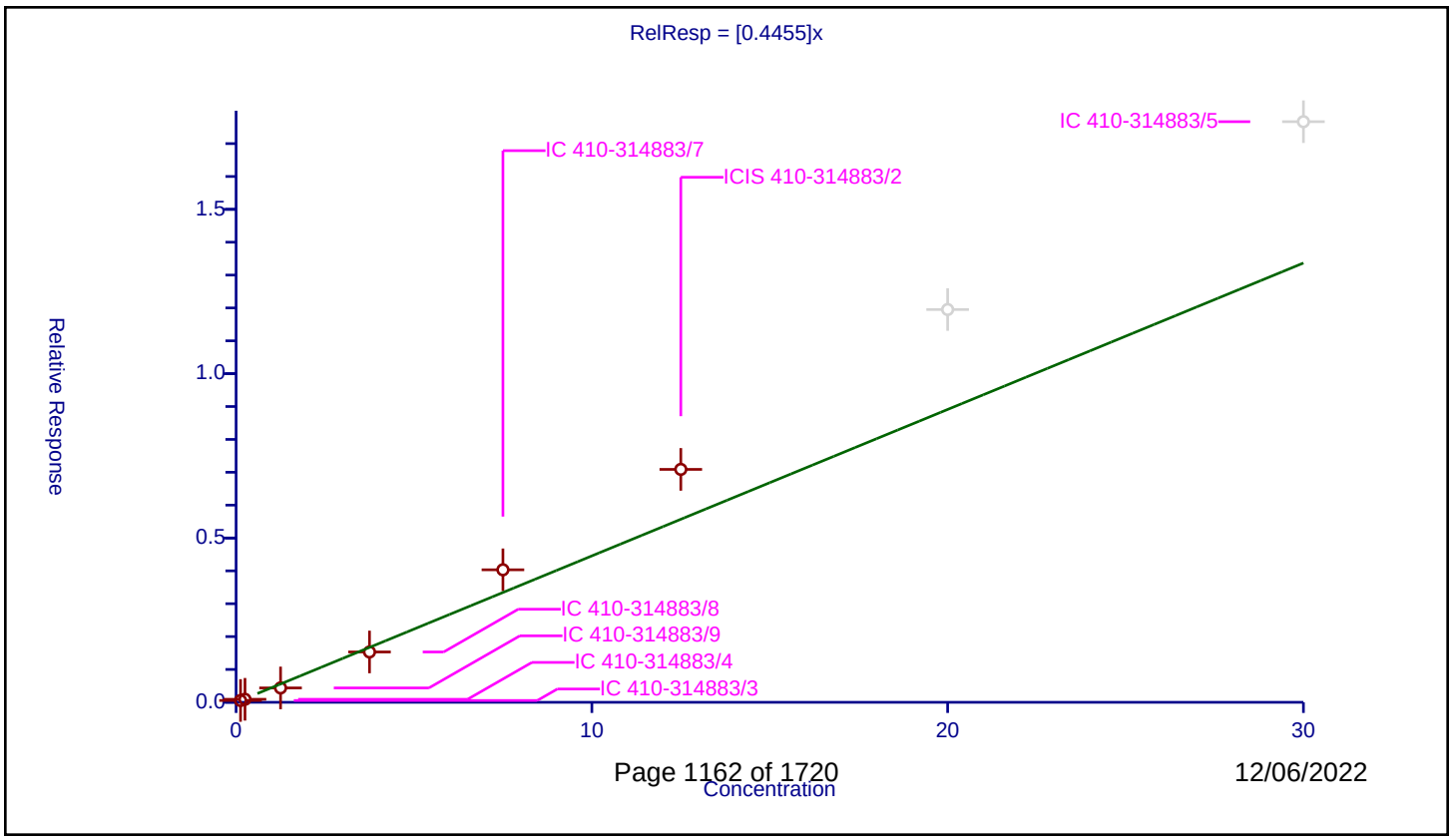
Curve Coefficients

Intercept:	0
Slope:	0.4455

Error Coefficients

Standard Error:	405000
Relative Standard Error:	20.0
Correlation Coefficient:	0.991
Coefficient of Determination (Adjusted):	0.953

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.055379	5.0	494593.0	0.443031	Y
2	IC 410-314883/4	0.25	0.091772	5.0	488822.0	0.367087	Y
3	IC 410-314883/9	1.25	0.437434	5.0	547831.0	0.349947	Y
4	IC 410-314883/8	3.75	1.532305	5.0	527682.0	0.408615	Y
5	IC 410-314883/7	7.5	4.032186	5.0	525478.0	0.537625	Y
6	ICIS 410-314883/2	12.5	7.086995	5.0	552251.0	0.56696	Y
7	IC 410-314883/6	20.0	11.951481	5.0	540018.0	0.597574	N
8	IC 410-314883/5	30.0	17.666934	5.0	547880.0	0.588898	N



Calibration / 6-Methylchrysene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

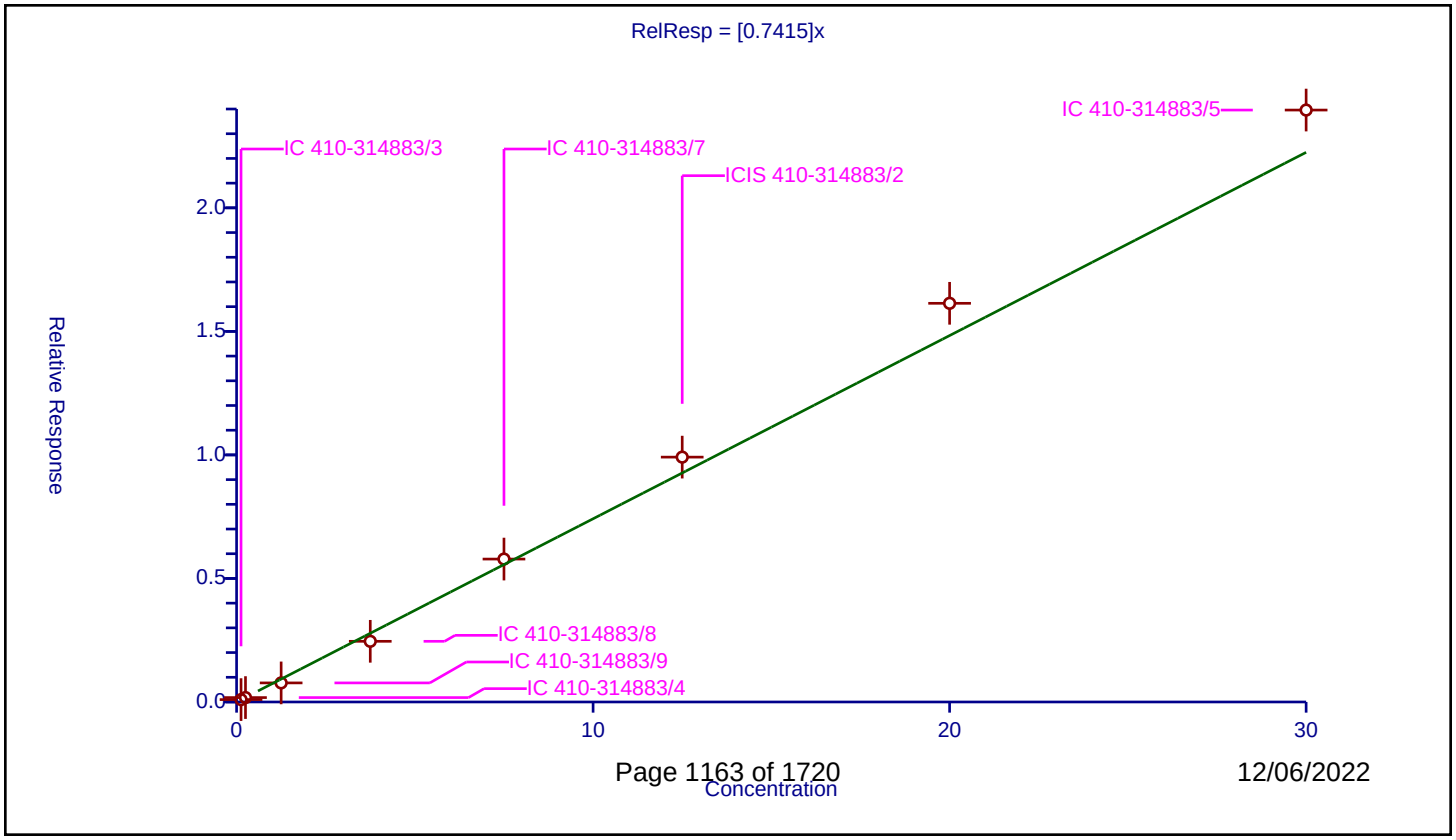
Curve Coefficients

Intercept:	0
Slope:	0.7415

Error Coefficients

Standard Error:	1290000
Relative Standard Error:	9.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.096756	5.0	494593.0	0.774051	Y
2	IC 410-314883/4	0.25	0.179022	5.0	488822.0	0.716089	Y
3	IC 410-314883/9	1.25	0.772008	5.0	547831.0	0.617607	Y
4	IC 410-314883/8	3.75	2.456233	5.0	527682.0	0.654995	Y
5	IC 410-314883/7	7.5	5.784305	5.0	525478.0	0.771241	Y
6	ICIS 410-314883/2	12.5	9.910729	5.0	552251.0	0.792858	Y
7	IC 410-314883/6	20.0	16.136518	5.0	540018.0	0.806826	Y
8	IC 410-314883/5	30.0	23.957527	5.0	547880.0	0.798584	Y



Calibration / Di-n-octyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

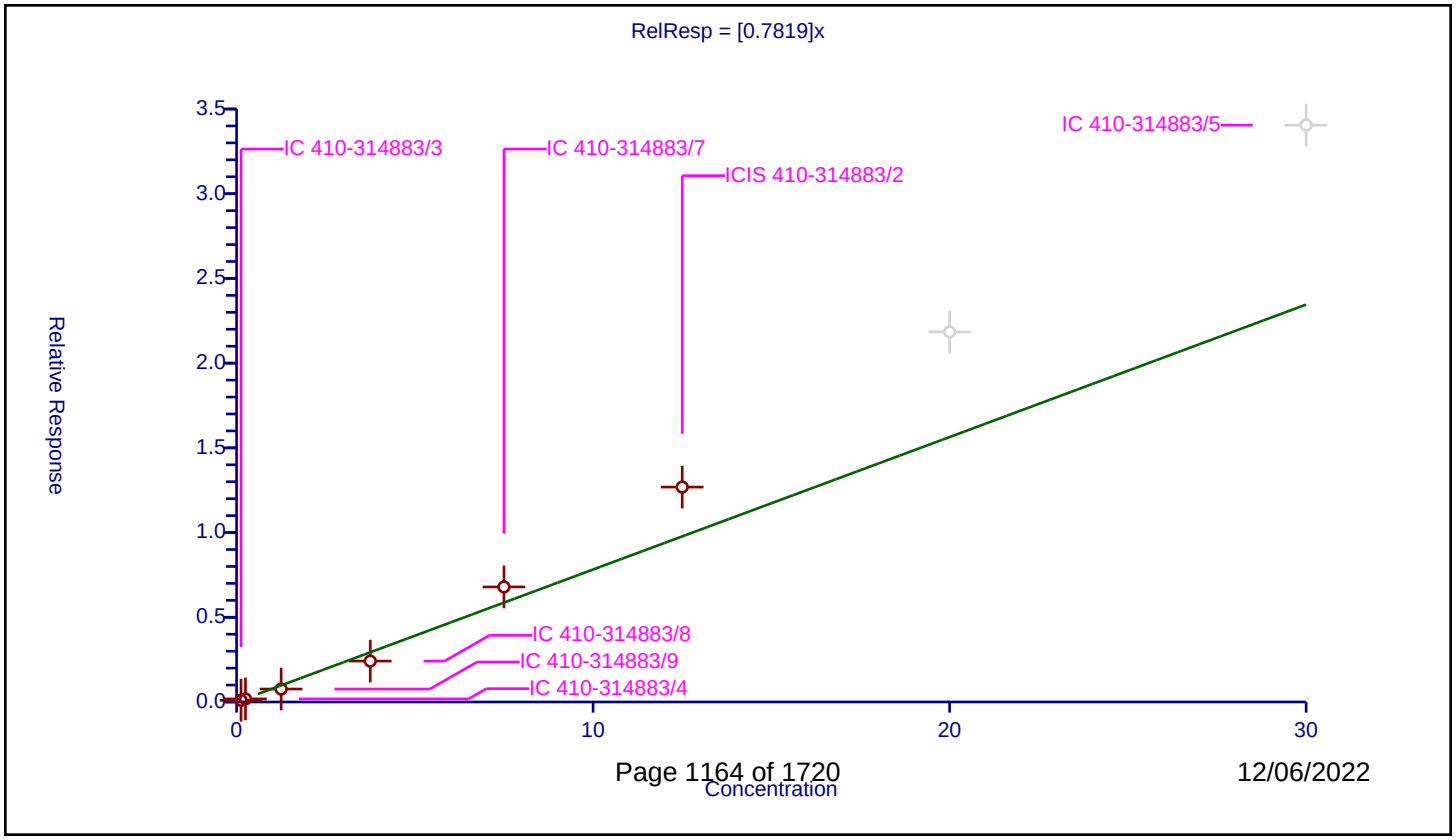
Curve Coefficients

Intercept:	0
Slope:	0.7819

Error Coefficients

Standard Error:	589000
Relative Standard Error:	19.9
Correlation Coefficient:	0.981
Coefficient of Determination (Adjusted):	0.952

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.098481	5.0	387942.0	0.78785	Y
2	IC 410-314883/4	0.25	0.181954	5.0	382075.0	0.727815	Y
3	IC 410-314883/9	1.25	0.764152	5.0	425596.0	0.611322	Y
4	IC 410-314883/8	3.75	2.415015	5.0	422190.0	0.644004	Y
5	IC 410-314883/7	7.5	6.791401	5.0	424369.0	0.90552	Y
6	ICIS 410-314883/2	12.5	12.685924	5.0	459248.0	1.014874	Y
7	IC 410-314883/6	20.0	21.84391	5.0	449748.0	1.092196	N
8	IC 410-314883/5	30.0	34.049835	5.0	445891.0	1.134995	N



Calibration / 7,12-Dimethylbenz(a)anthracene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

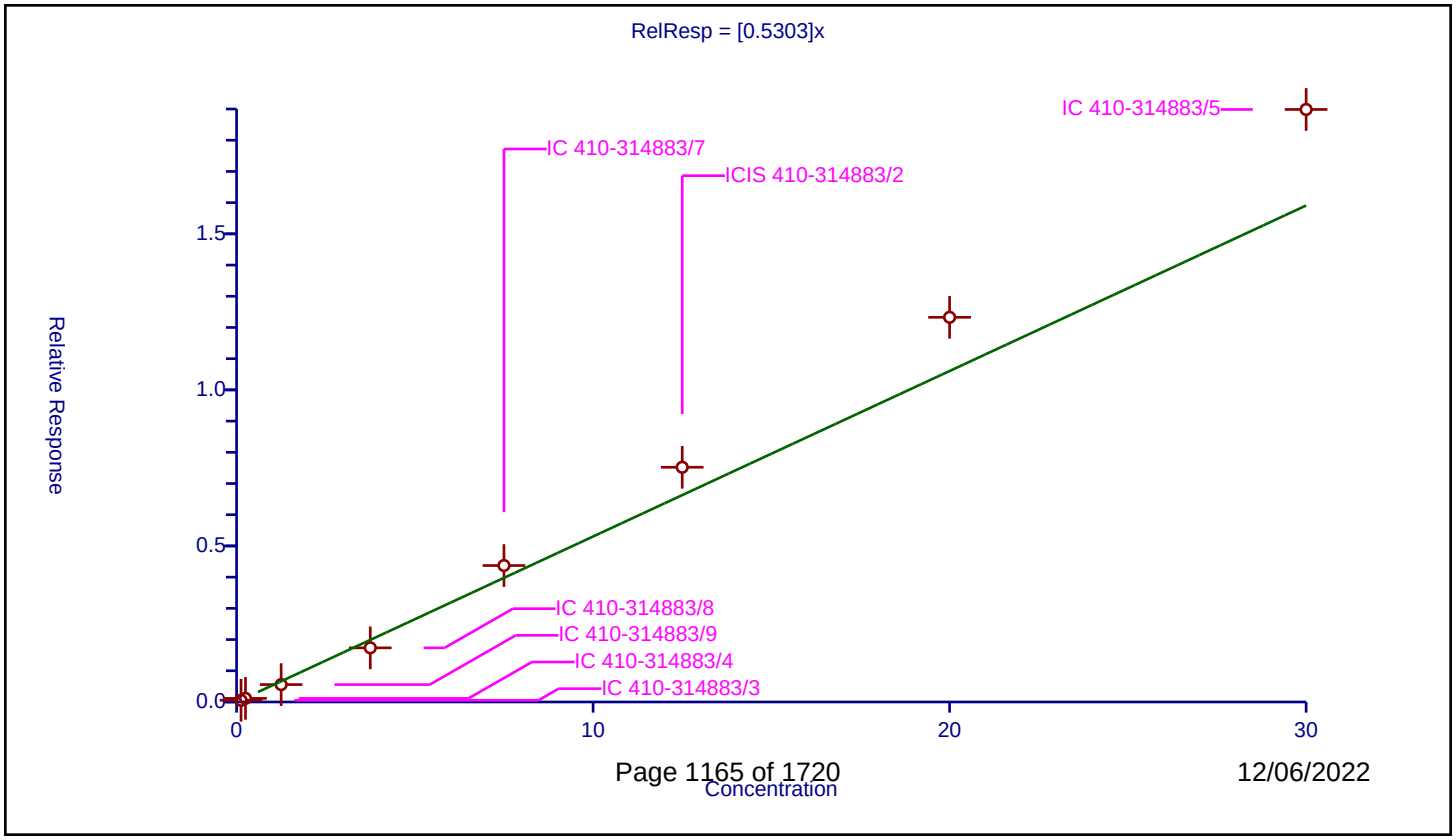
Curve Coefficients

Intercept:	0
Slope:	0.5303

Error Coefficients

Standard Error:	822000
Relative Standard Error:	16.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.973

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.054531	5.0	387942.0	0.436251	Y
2	IC 410-314883/4	0.25	0.115789	5.0	382075.0	0.463155	Y
3	IC 410-314883/9	1.25	0.557665	5.0	425596.0	0.446132	Y
4	IC 410-314883/8	3.75	1.735001	5.0	422190.0	0.462667	Y
5	IC 410-314883/7	7.5	4.372386	5.0	424369.0	0.582985	Y
6	ICIS 410-314883/2	12.5	7.521688	5.0	459248.0	0.601735	Y
7	IC 410-314883/6	20.0	12.326014	5.0	449748.0	0.616301	Y
8	IC 410-314883/5	30.0	18.985369	5.0	445891.0	0.632846	Y



Calibration / Benzo[b]fluoranthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

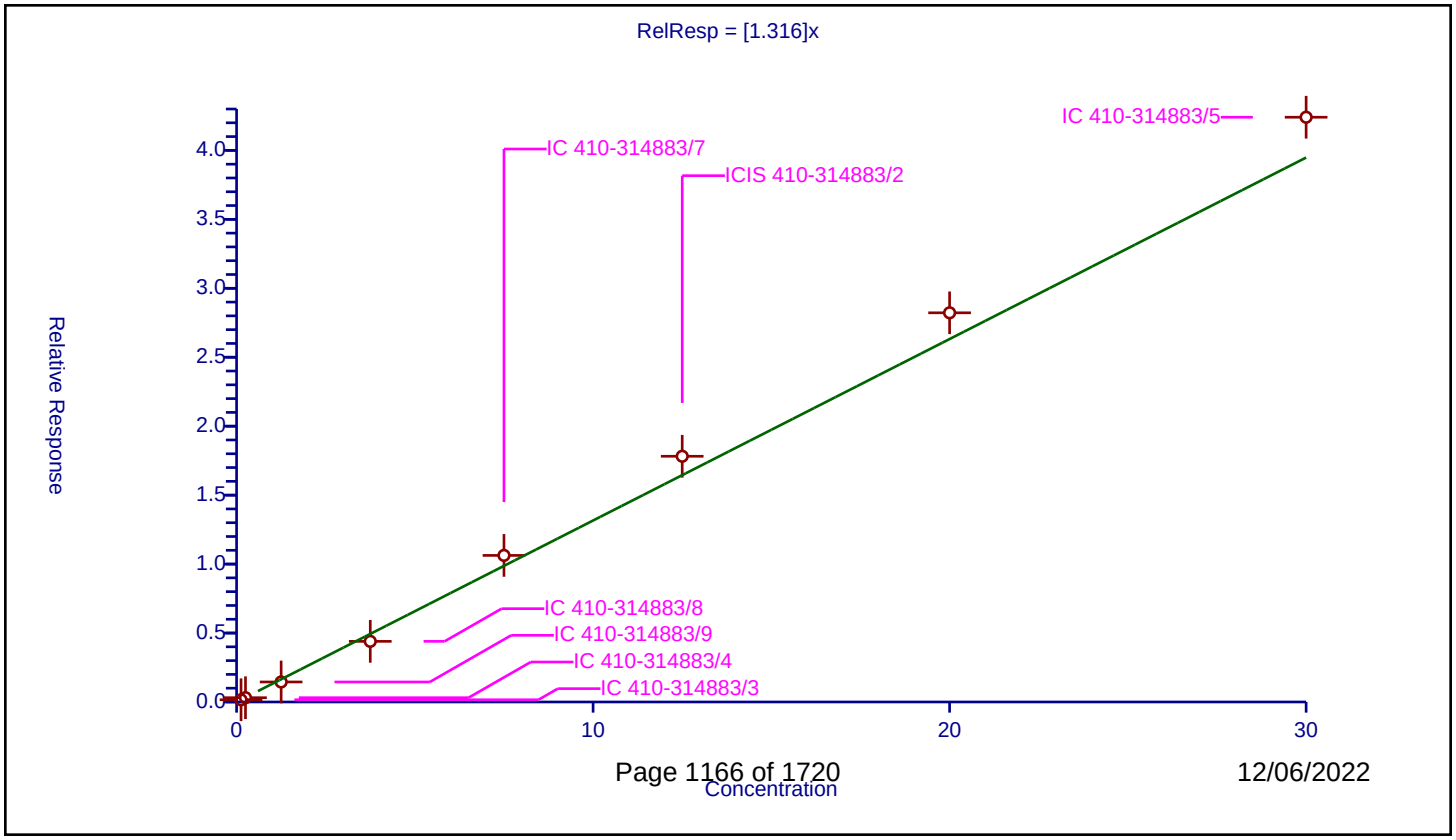
Curve Coefficients

Intercept:	0
Slope:	1.316

Error Coefficients

Standard Error:	1870000
Relative Standard Error:	8.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.161107	5.0	387942.0	1.288852	Y
2	IC 410-314883/4	0.25	0.309651	5.0	382075.0	1.238605	Y
3	IC 410-314883/9	1.25	1.450484	5.0	425596.0	1.160387	Y
4	IC 410-314883/8	3.75	4.396587	5.0	422190.0	1.172423	Y
5	IC 410-314883/7	7.5	10.629122	5.0	424369.0	1.417216	Y
6	ICIS 410-314883/2	12.5	17.819141	5.0	459248.0	1.425531	Y
7	IC 410-314883/6	20.0	28.221971	5.0	449748.0	1.411099	Y
8	IC 410-314883/5	30.0	42.403547	5.0	445891.0	1.413452	Y



Calibration / Benzo[k]fluoranthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

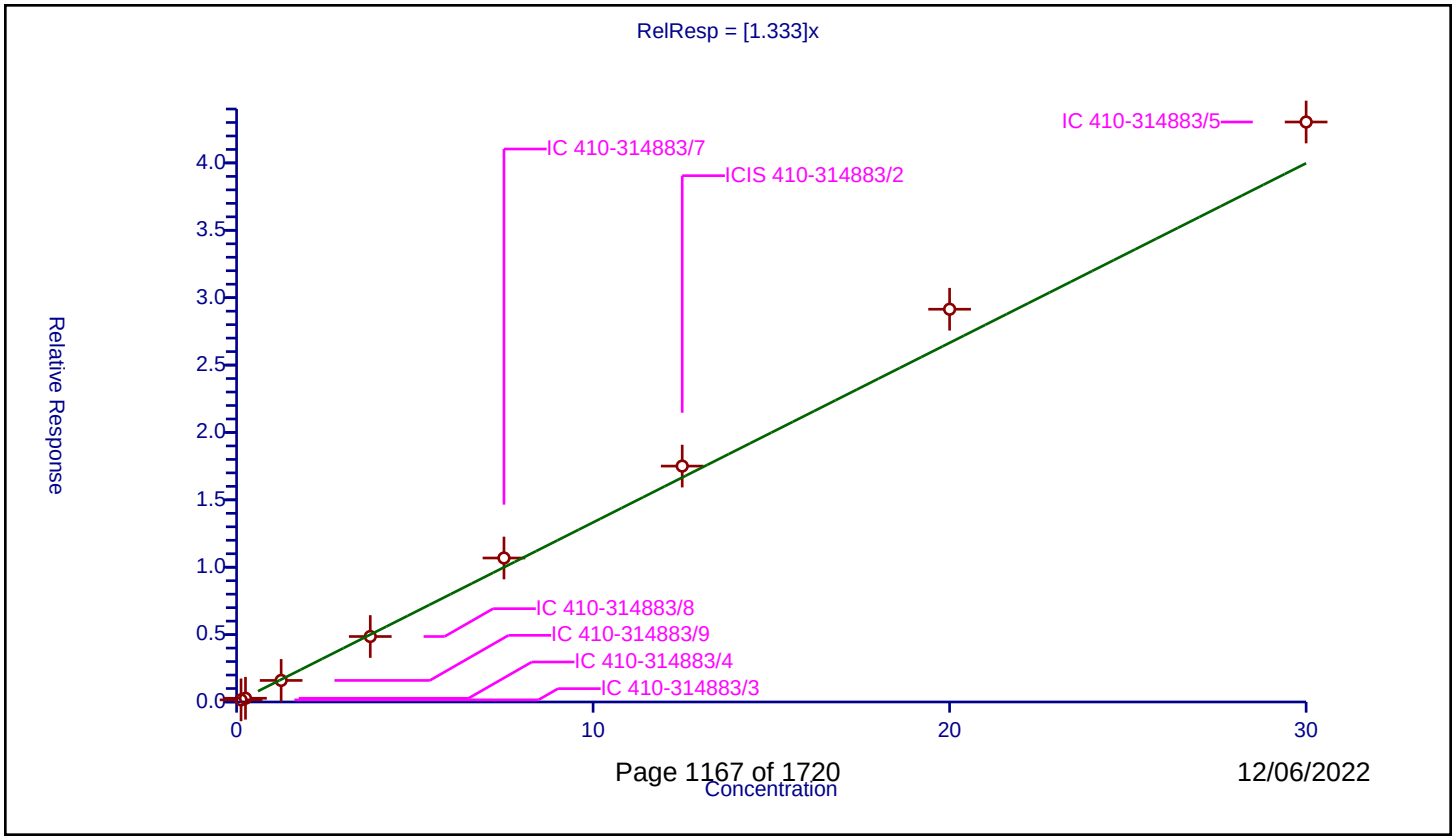
Curve Coefficients

Intercept:	0
Slope:	1.333

Error Coefficients

Standard Error:	1900000
Relative Standard Error:	8.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.157472	5.0	387942.0	1.259776	Y
2	IC 410-314883/4	0.25	0.276948	5.0	382075.0	1.107793	Y
3	IC 410-314883/9	1.25	1.599815	5.0	425596.0	1.279852	Y
4	IC 410-314883/8	3.75	4.859554	5.0	422190.0	1.295881	Y
5	IC 410-314883/7	7.5	10.684982	5.0	424369.0	1.424664	Y
6	ICIS 410-314883/2	12.5	17.505683	5.0	459248.0	1.400455	Y
7	IC 410-314883/6	20.0	29.143053	5.0	449748.0	1.457153	Y
8	IC 410-314883/5	30.0	43.035708	5.0	445891.0	1.434524	Y



Calibration / Benzo[a]pyrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

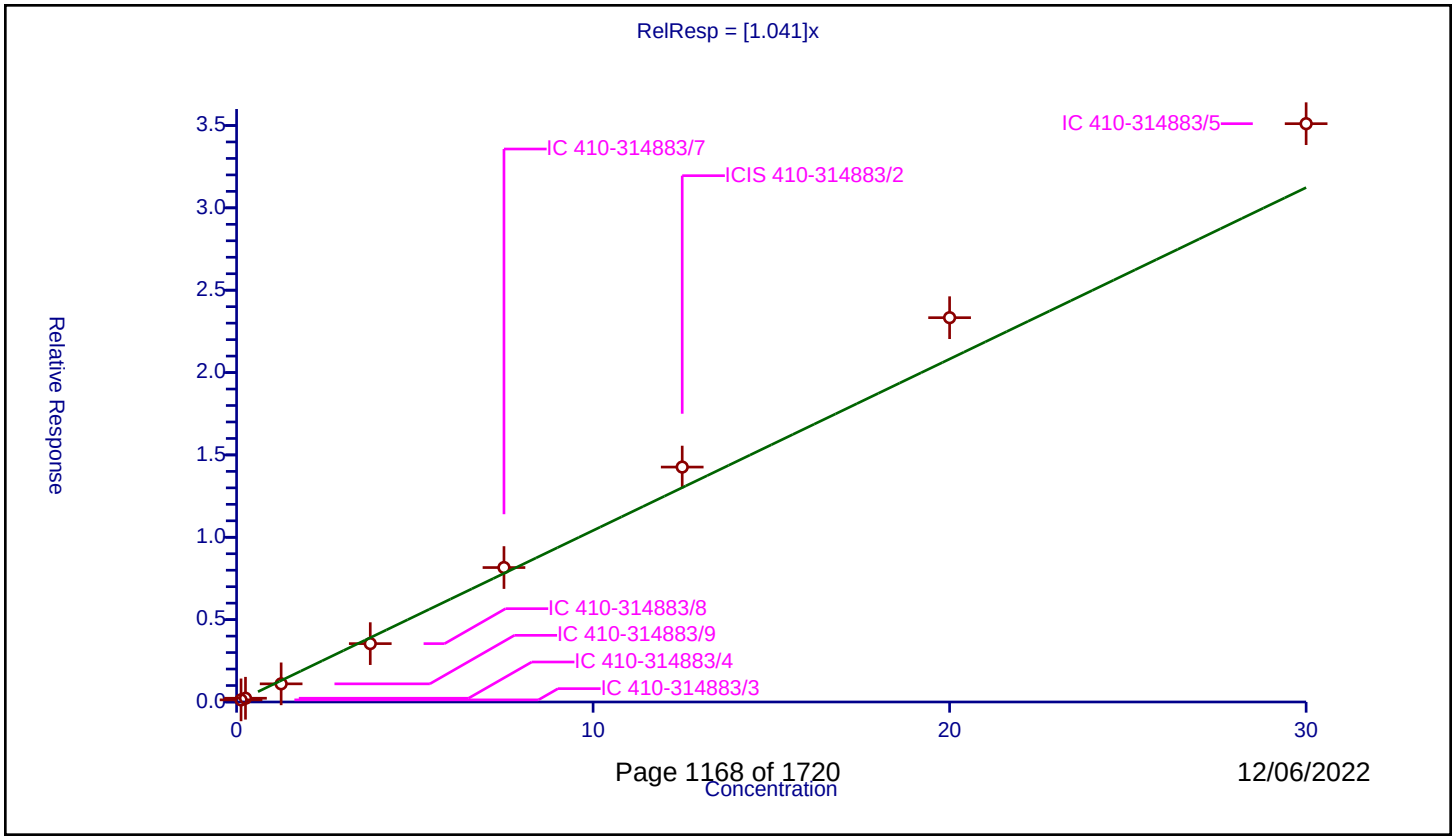
Curve Coefficients

Intercept:	0
Slope:	1.041

Error Coefficients

Standard Error:	1540000
Relative Standard Error:	11.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.128602	5.0	387942.0	1.028814	Y
2	IC 410-314883/4	0.25	0.226657	5.0	382075.0	0.906628	Y
3	IC 410-314883/9	1.25	1.102336	5.0	425596.0	0.881869	Y
4	IC 410-314883/8	3.75	3.543322	5.0	422190.0	0.944886	Y
5	IC 410-314883/7	7.5	8.162036	5.0	424369.0	1.088271	Y
6	ICIS 410-314883/2	12.5	14.261445	5.0	459248.0	1.140916	Y
7	IC 410-314883/6	20.0	23.33091	5.0	449748.0	1.166545	Y
8	IC 410-314883/5	30.0	35.109948	5.0	445891.0	1.170332	Y



Calibration / 3-Methylcholanthrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

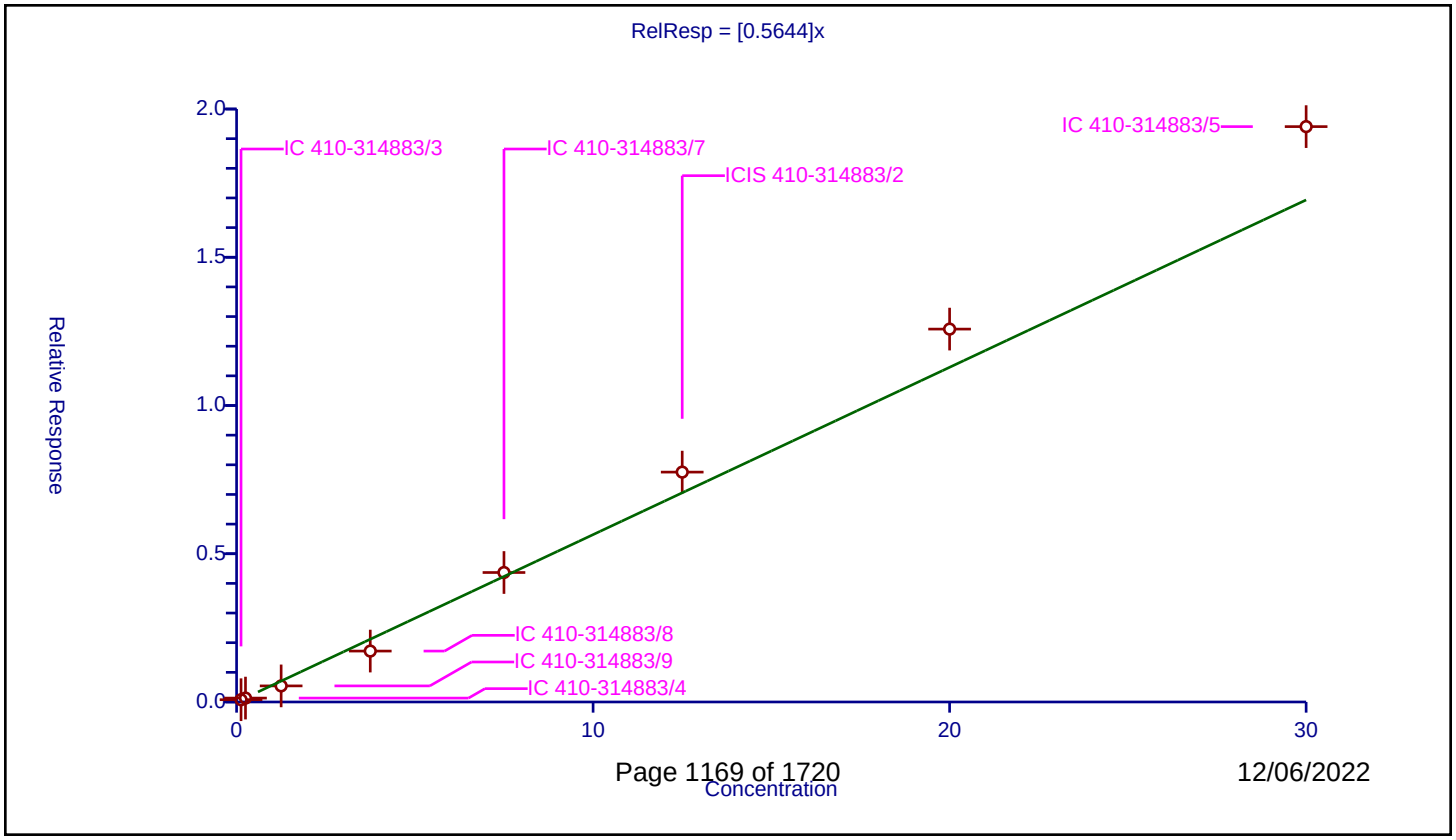
Curve Coefficients

Intercept:	0
Slope:	0.5644

Error Coefficients

Standard Error:	840000
Relative Standard Error:	14.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.975

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.077164	5.0	387942.0	0.617309	Y
2	IC 410-314883/4	0.25	0.131859	5.0	382075.0	0.527436	Y
3	IC 410-314883/9	1.25	0.543062	5.0	425596.0	0.43445	Y
4	IC 410-314883/8	3.75	1.717473	5.0	422190.0	0.457993	Y
5	IC 410-314883/7	7.5	4.367308	5.0	424369.0	0.582308	Y
6	ICIS 410-314883/2	12.5	7.753676	5.0	459248.0	0.620294	Y
7	IC 410-314883/6	20.0	12.576832	5.0	449748.0	0.628842	Y
8	IC 410-314883/5	30.0	19.406267	5.0	445891.0	0.646876	Y



Calibration / Dibenz[a,h]acridine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

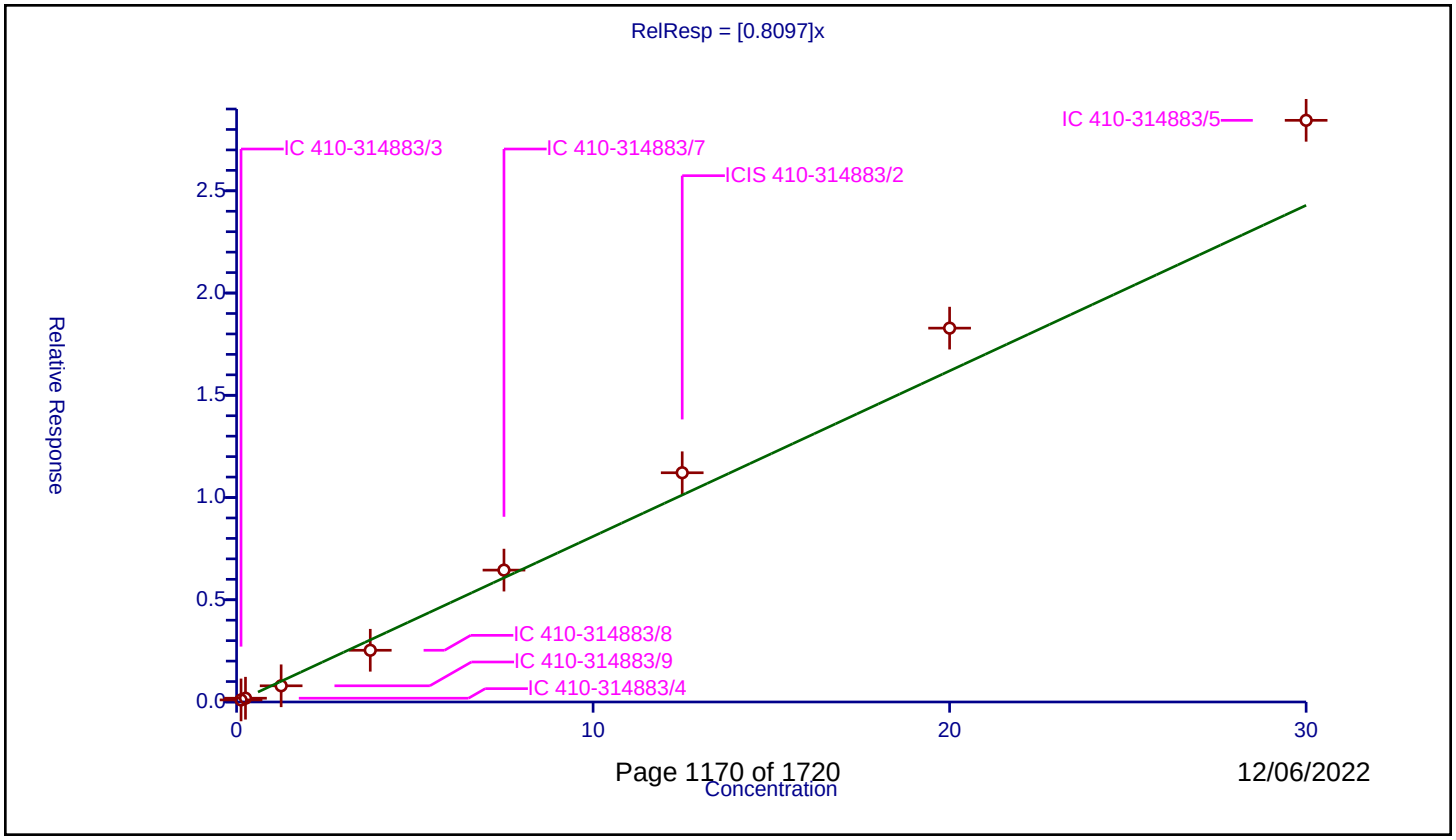
Curve Coefficients

Intercept:	0
Slope:	0.8097

Error Coefficients

Standard Error:	1230000
Relative Standard Error:	14.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.976

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.101433	5.0	387942.0	0.811462	Y
2	IC 410-314883/4	0.25	0.184623	5.0	382075.0	0.738494	Y
3	IC 410-314883/9	1.25	0.791807	5.0	425596.0	0.633446	Y
4	IC 410-314883/8	3.75	2.529821	5.0	422190.0	0.674619	Y
5	IC 410-314883/7	7.5	6.450236	5.0	424369.0	0.860031	Y
6	ICIS 410-314883/2	12.5	11.210762	5.0	459248.0	0.896861	Y
7	IC 410-314883/6	20.0	18.284306	5.0	449748.0	0.914215	Y
8	IC 410-314883/5	30.0	28.447289	5.0	445891.0	0.948243	Y



Calibration / Dibenz[a,j]acridine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

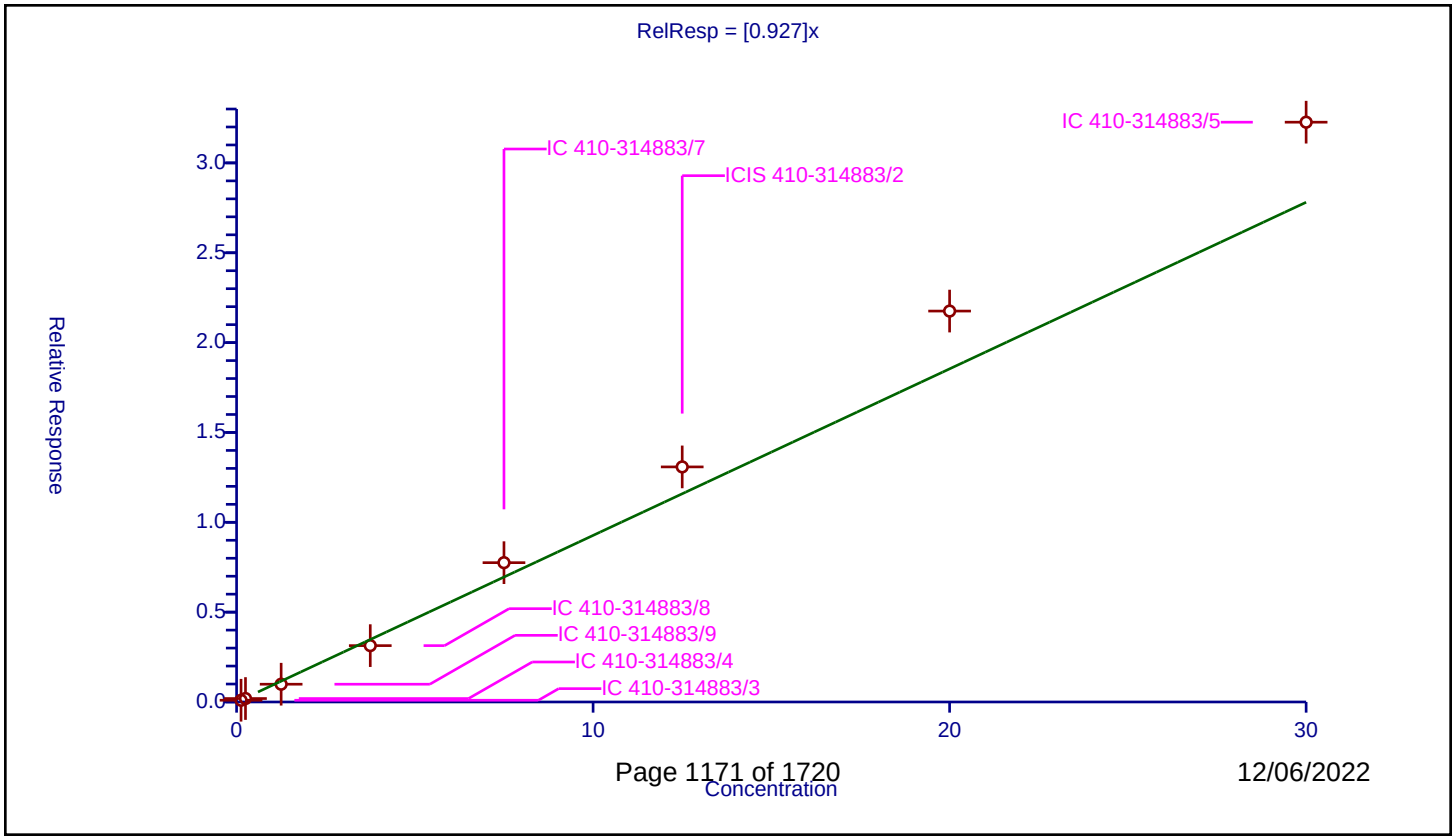
Curve Coefficients

Intercept:	0
Slope:	0.927

Error Coefficients

Standard Error:	1420000
Relative Standard Error:	15.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.974

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.096664	5.0	387942.0	0.773311	Y
2	IC 410-314883/4	0.25	0.192802	5.0	382075.0	0.77121	Y
3	IC 410-314883/9	1.25	0.989225	5.0	425596.0	0.79138	Y
4	IC 410-314883/8	3.75	3.136751	5.0	422190.0	0.836467	Y
5	IC 410-314883/7	7.5	7.752887	5.0	424369.0	1.033718	Y
6	ICIS 410-314883/2	12.5	13.082126	5.0	459248.0	1.04657	Y
7	IC 410-314883/6	20.0	21.755016	5.0	449748.0	1.087751	Y
8	IC 410-314883/5	30.0	32.266451	5.0	445891.0	1.075548	Y



Calibration / Indeno[1,2,3-cd]pyrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

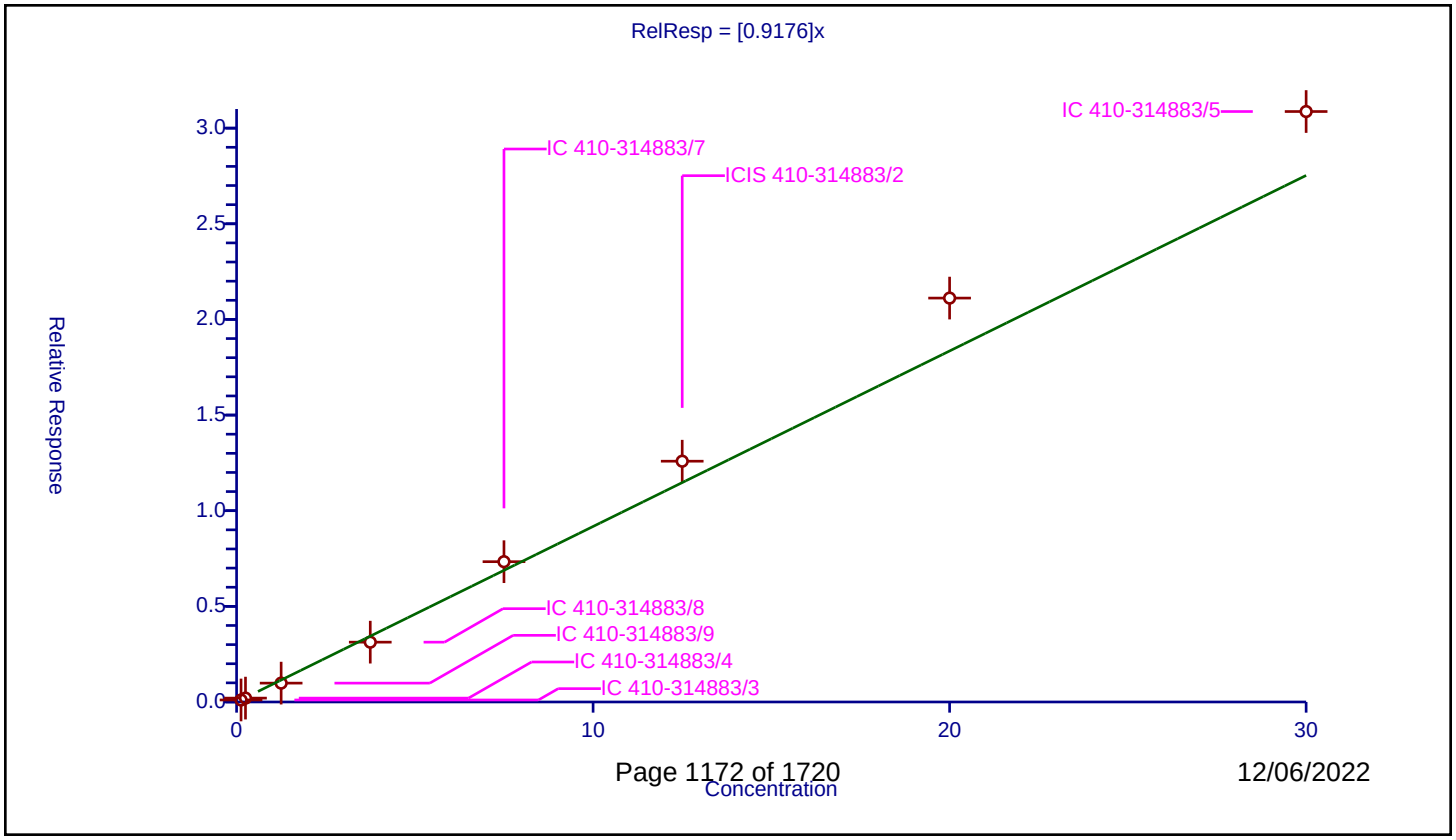
Curve Coefficients

Intercept:	0
Slope:	0.9176

Error Coefficients

Standard Error:	1360000
Relative Standard Error:	12.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.104603	5.0	387942.0	0.836826	Y
2	IC 410-314883/4	0.25	0.202709	5.0	382075.0	0.810836	Y
3	IC 410-314883/9	1.25	0.986158	5.0	425596.0	0.788927	Y
4	IC 410-314883/8	3.75	3.128212	5.0	422190.0	0.83419	Y
5	IC 410-314883/7	7.5	7.335032	5.0	424369.0	0.978004	Y
6	ICIS 410-314883/2	12.5	12.588133	5.0	459248.0	1.007051	Y
7	IC 410-314883/6	20.0	21.115402	5.0	449748.0	1.05577	Y
8	IC 410-314883/5	30.0	30.868654	5.0	445891.0	1.028955	Y



Calibration / Dibenz(a,h)anthracene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

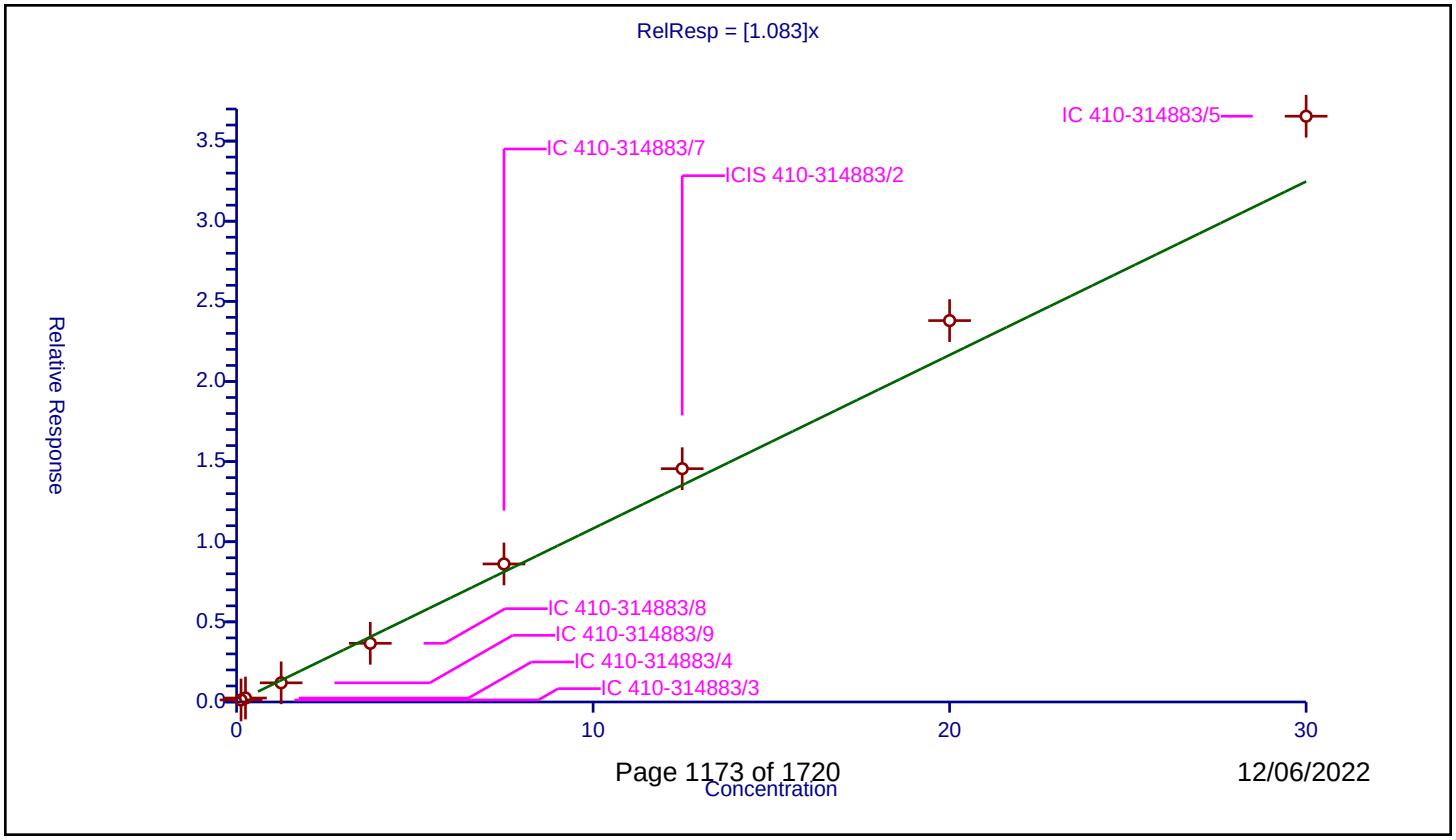
Curve Coefficients

Intercept:	0
Slope:	1.083

Error Coefficients

Standard Error:	1590000
Relative Standard Error:	10.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.127455	5.0	387942.0	1.019637	Y
2	IC 410-314883/4	0.25	0.246496	5.0	382075.0	0.985984	Y
3	IC 410-314883/9	1.25	1.196228	5.0	425596.0	0.956983	Y
4	IC 410-314883/8	3.75	3.660946	5.0	422190.0	0.976252	Y
5	IC 410-314883/7	7.5	8.613306	5.0	424369.0	1.148441	Y
6	ICIS 410-314883/2	12.5	14.557091	5.0	459248.0	1.164567	Y
7	IC 410-314883/6	20.0	23.798972	5.0	449748.0	1.189949	Y
8	IC 410-314883/5	30.0	36.55011	5.0	445891.0	1.218337	Y



Calibration / Benzo[g,h,i]perylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

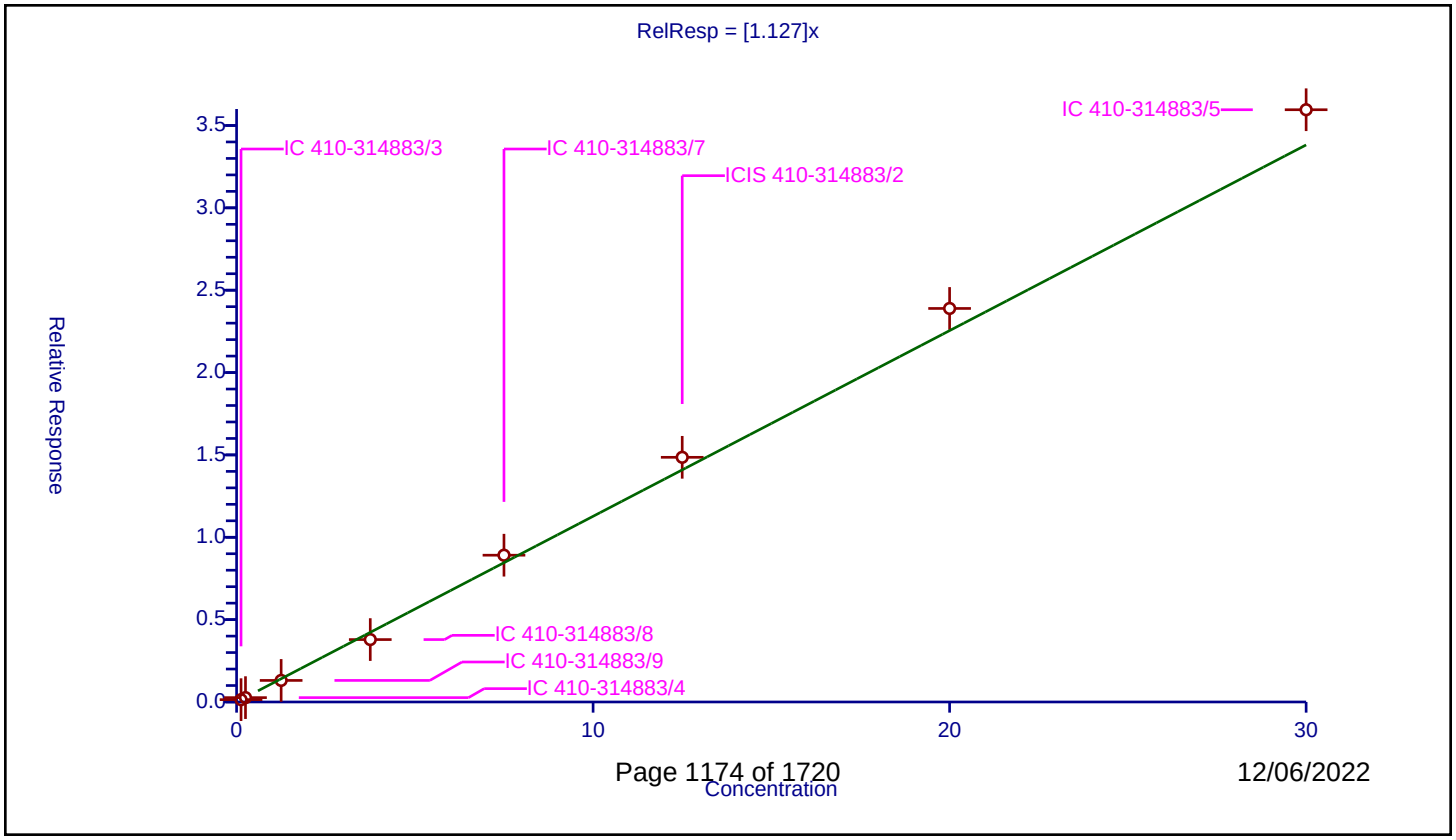
Curve Coefficients

Intercept:	0
Slope:	1.127

Error Coefficients

Standard Error:	1580000
Relative Standard Error:	6.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-314883/3	0.125	0.141258	5.0	387942.0	1.130066	Y
2	IC 410-314883/4	0.25	0.265393	5.0	382075.0	1.061572	Y
3	IC 410-314883/9	1.25	1.308271	5.0	425596.0	1.046617	Y
4	IC 410-314883/8	3.75	3.789408	5.0	422190.0	1.010509	Y
5	IC 410-314883/7	7.5	8.912232	5.0	424369.0	1.188298	Y
6	ICIS 410-314883/2	12.5	14.854861	5.0	459248.0	1.188389	Y
7	IC 410-314883/6	20.0	23.892458	5.0	449748.0	1.194623	Y
8	IC 410-314883/5	30.0	35.955884	5.0	445891.0	1.198529	Y



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-106360-1

SDG No.:

Lab Sample ID: ICV 410-314883/12 Calibration Date: 11/07/2022 22:28

Instrument ID: HP19760 Calib Start Date: 04/21/2022 20:24

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 04/21/2022 22:09

Lab File ID: DK0711.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Famphur	Ave	0.3635				12.5		30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0711.D
Lims ID: ICV FULL
Client ID:
Sample Type: ICV
Inject. Date: 07-Nov-2022 22:28:30 ALS Bottle#: 11 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICV FULL
Misc. Info.: 410-0070576-012
Operator ID: kel10217 Instrument ID: HP19760
Sublist:

Method: \\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\MSSemi_HP19760.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 08-Nov-2022 08:52:42 Calib Date: 08-Nov-2022 01:34:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0720.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1681

First Level Reviewer: W6XI Date: 08-Nov-2022 08:15:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
2 1,4-Dioxane	88	1.896	1.896	0.000	92	195800	12.5	13.0	
3 N-Nitrosodimethylamine	74	2.123	2.123	0.000	94	315709	12.5	12.0	
4 Pyridine	79	2.164	2.164	0.000	96	1008291	25.0	25.1	
6 2-Picoline	93	2.764	2.764	0.000	89	521487	12.5	13.1	
7 N-Nitrosomethylethylamine	88	2.846	2.846	0.000	93	219265	12.5	12.3	
8 Methyl methanesulfonate	80	3.114	3.114	0.000	86	306912	12.5	13.0	
11 N-Nitrosodiethylamine	102	3.493	3.493	0.000	95	207028	12.5	13.1	
12 Ethyl methanesulfonate	109	3.773	3.773	0.000	96	209288	12.5	12.1	
26 Indene	115		4.067				ND	ND	
18 Phenol	94	4.151	4.151	0.000	94	558926	12.5	12.7	
16 Aniline	93	4.198	4.204	-0.006	94	685087	12.5	13.1	
19 Bis(2-chloroethyl)ether	93	4.256	4.262	-0.006	94	463084	12.5	13.0	
20 2-Chlorophenol	128	4.315	4.315	0.000	92	378961	12.5	13.2	
21 1,3-Dichlorobenzene	146	4.466	4.466	0.000	93	441215	12.5	12.9	
* 22 1,4-Dichlorobenzene-d4	152	4.519	4.513	0.006	97	116297	5.00	5.00	
23 1,4-Dichlorobenzene	146	4.536	4.536	0.000	89	447709	12.5	12.9	
25 Benzyl alcohol	108	4.635	4.641	-0.006	89	266355	12.5	12.6	
24 1,2-Dichlorobenzene	146	4.676	4.682	-0.006	92	424415	12.5	13.0	
27 2-Methylphenol	108	4.734	4.734	0.000	95	377111	12.5	13.1	
28 2,2'-oxybis[1-chloropropane]	45	4.775	4.775	0.000	91	502782	12.5	12.1	
45 Benzoic acid	105		4.819				ND	ND	
30 N-Nitrosopyrrolidine	100	4.874	4.874	0.000	88	219548	12.5	13.3	
35 4-Methylphenol	108	4.880	4.880	0.000	95	393192	12.5	12.6	
32 N-Nitrosodi-n-propylamine	70	4.892	4.892	0.000	84	386762	12.5	13.3	
31 Acetophenone	105	4.897	4.898	-0.001	95	646626	12.5	13.2	
33 N-Nitrosomorpholine	56	4.909	4.915	-0.006	85	267288	12.5	12.4	
34 2-Toluidine	106	4.927	4.927	0.000	95	707898	12.5	13.4	
36 Hexachloroethane	117	5.002	5.002	0.000	89	182617	12.5	12.3	
38 Nitrobenzene	77	5.061	5.061	0.000	84	531350	12.5	11.8	
39 N-Nitrosopiperidine	114	5.201	5.206	-0.005	84	199603	12.5	12.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
40 Isophorone	82	5.288	5.288	0.000	96	919091	12.5	12.5	
41 2-Nitrophenol	139	5.364	5.364	0.000	89	189657	12.5	13.0	
42 2,4-Dimethylphenol	107	5.393	5.393	0.000	98	409403	12.5	11.7	
43 o,o',o''-Triethylphosphorothioat	198	5.469	5.469	0.000	81	227773	12.5	12.0	
44 Bis(2-chloroethoxy)methane	93	5.492	5.492	0.000	98	555177	12.5	12.2	
47 2,4-Dichlorophenol	162	5.585	5.585	0.000	96	334974	12.5	12.7	
48 1,2,4-Trichlorobenzene	180	5.673	5.673	0.000	91	403892	12.5	12.3	
* 49 Naphthalene-d8	136	5.731	5.725	0.006	99	422027	5.00	5.00	
50 Naphthalene	128	5.748	5.749	-0.001	98	1117232	12.5	12.4	
52 4-Chloroaniline	127	5.795	5.795	0.000	93	460353	12.5	13.1	
53 2,6-Dichlorophenol	162	5.801	5.807	-0.006	94	346125	12.5	13.2	
54 Hexachloropropene	213	5.830	5.836	-0.006	87	321415	12.5	12.2	
55 Hexachlorobutadiene	225	5.865	5.865	0.000	94	287852	12.5	12.8	
56 Quinoline	129	6.063	6.063	0.000	95	722812	12.5	13.1	
59 N-Nitrosodi-n-butylamine	84	6.121	6.122	-0.001	91	345335	12.5	10.2	
58 p-Phenylene diamine	108	6.133	6.133	0.000	94	268046	12.5	8.64	7a
60 4-Chloro-3-methylphenol	107	6.250	6.250	0.000	91	367098	12.5	12.8	
61 Safrole, Total	162	6.325	6.326	-0.001	87	294504	12.5	12.0	
62 2-Methylnaphthalene	142	6.407	6.407	0.000	92	750167	12.5	13.4	
63 1-Methylnaphthalene	142	6.500	6.500	0.000	93	692163	12.5	12.2	
64 Hexachlorocyclopentadiene	237	6.559	6.559	0.000	94	314771	12.5	10.7	
65 1,2,4,5-Tetrachlorobenzene	216	6.564	6.565	-0.001	96	498293	12.5	12.3	
66 Isosafrole Peak 1	162	6.605	6.605	0.000	86	39139	1.50	1.42	
68 2,4,6-Trichlorophenol	196	6.669	6.669	0.000	92	275232	12.5	12.5	
69 2,4,5-Trichlorophenol	196	6.698	6.704	-0.006	93	305480	12.5	12.7	
71 Isosafrole Peak 2	162	6.815	6.815	0.000	89	295443	11.0	9.26	
77 1,1'-Biphenyl	154	6.850	6.856	-0.006	95	982674	12.5	12.1	
78 2-Chloronaphthalene	162	6.868	6.873	-0.005	95	759089	12.5	12.1	
79 1-Chloronaphthalene	162	6.891	6.891	0.000	98	747807	12.5	12.2	
80 Phenyl ether	170	6.955	6.955	0.000	87	548155	12.5	11.9	
81 2-Nitroaniline	138	6.961	6.967	-0.006	77	217713	12.5	13.6	
82 1,4-Naphthoquinone	158	7.037	7.037	0.000	80	285575	12.5	12.9	
83 1,4-Dinitrobenzene	168	7.095	7.101	-0.006	84	123265	12.5	13.3	
84 Dimethyl phthalate	163	7.141	7.142	-0.001	97	855110	12.5	12.3	
85 1,3-Dinitrobenzene	168	7.165	7.165	0.000	83	136522	12.5	12.9	
86 2,6-Dinitrotoluene	165	7.194	7.194	0.000	90	197475	12.5	13.0	
87 Acenaphthylene	152	7.264	7.264	0.000	99	1140033	12.5	13.1	
88 3-Nitroaniline	138	7.351	7.351	0.000	86	192311	12.5	13.6	
* 89 Acenaphthene-d10	164	7.398	7.392	0.006	94	264601	5.00	5.00	
90 Acenaphthene	153	7.427	7.427	0.000	96	773176	12.5	12.3	
91 2,4-Dinitrophenol	184	7.450	7.450	0.000	85	273314	25.0	26.4	
93 4-Nitrophenol	109	7.497	7.497	0.000	83	290106	25.0	26.9	
92 Pentachlorobenzene	250	7.549	7.550	-0.001	98	425189	12.5	12.4	
95 2,4-Dinitrotoluene	165	7.573	7.573	0.000	88	256506	12.5	13.1	
94 Dibenzofuran	168	7.590	7.590	0.000	97	1112895	12.5	12.2	
96 1-Naphthylamine	143	7.666	7.666	0.000	98	715042	12.5	13.1	
97 2,3,4,6-Tetrachlorophenol	232	7.701	7.701	0.000	70	304215	12.5	13.7	
98 2-Naphthylamine	143	7.742	7.742	0.000	95	787472	12.5	13.0	
99 Diethyl phthalate	149	7.812	7.812	0.000	98	841689	12.5	12.6	
101 Thionazin	107	7.888	7.888	0.000	78	135146	12.5	11.8	
100 Fluorene	166	7.917	7.917	0.000	92	912952	12.5	12.6	
102 4-Chlorophenyl phenyl ether	204	7.923	7.923	-0.001	89	516846	12.5	12.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
103 N-Nitro-o-toluidine	152	7.923	7.923	-0.001	82	235412	12.5	13.3	
104 4-Nitroaniline	138	7.928	7.928	0.000	76	204913	12.5	13.3	
105 4,6-Dinitro-2-methylphenol	198	7.957	7.958	-0.001	86	365583	25.0	27.2	
106 N-Nitrosodiphenylamine	169	8.027	8.028	-0.001	76	635485	10.6	11.1	
107 1,2-Diphenylhydrazine	77	8.068	8.068	0.000	41	1137307	12.5	13.2	
109 Sulfotepp	97	8.185	8.185	0.000	78	159005	12.5	12.4	
110 1,3,5-Trinitrobenzene	213	8.266	8.266	0.000	83	101598	12.5	12.4	
111 cis-Diallate	86	8.307	8.307	0.000	0	323984	9.38	9.23	
112 Phorate	75	8.313	8.313	0.000	95	646239	12.5	13.1	
113 Phenacetin	108	8.319	8.319	0.000	89	416365	12.5	13.5	
114 4-Bromophenyl phenyl ether	248	8.383	8.383	0.000	64	319910	12.5	12.7	
115 trans-Diallate	86	8.389	8.395	-0.006	0	116063	3.13	3.27	
116 Hexachlorobenzene	284	8.430	8.436	-0.006	96	351508	12.5	12.3	
117 Dimethoate	87	8.470	8.470	0.000	97	367354	12.5	12.9	
119 Pentachlorophenol	266	8.616	8.616	0.000	93	438147	25.0	27.4	
121 4-Aminobiphenyl	169	8.628	8.628	0.000	91	997631	12.5	12.7	
120 Pentachloronitrobenzene	237	8.628	8.634	-0.006	88	150727	12.5	12.5	
122 Pronamide	173	8.686	8.686	0.000	90	395676	12.5	13.6	
125 Dinoseb	211	8.797	8.797	0.000	96	247743	12.5	12.3	
* 123 Phenanthrene-d10	188	8.803	8.803	0.000	98	522723	5.00	5.00	
126 Disulfoton	88	8.814	8.814	0.000	96	599225	12.5	12.1	
124 Phenanthrene	178	8.826	8.826	0.000	97	1395866	12.5	12.6	
127 Anthracene	178	8.878	8.878	0.000	97	1402107	12.5	13.0	
128 Carbazole	167	9.030	9.030	0.000	96	1191202	12.5	12.9	
129 Methyl parathion	109	9.164	9.164	0.000	93	259506	12.5	11.9	
130 Di-n-butyl phthalate	149	9.368	9.374	-0.006	100	1320522	12.5	13.4	
132 Ethyl Parathion	109	9.537	9.537	0.000	85	159262	12.5	13.1	
131 4-Nitroquinoline-1-oxide	190	9.560	9.560	0.000	78	96055	12.5	11.1	
S 67 Diallate	86				0		12.5	12.5	
140 Aramite Peak 1	185		9.686				ND	ND	
141 Aramite Peak 2	185		9.709				ND	ND	
143 Aramite Peak 3	185		9.750				ND	ND	
134 Octachlorostyrene	308	9.776	9.776	0.000	90	134527	12.5	12.4	
135 Isodrin	193	9.817	9.817	0.000	92	172571	12.5	11.9	
144 Aramite Peak 4	185		9.825				ND	ND	
136 Fluoranthene	202	9.957	9.957	0.000	97	1575551	12.5	13.1	
137 Benzidine	184	10.091	10.091	0.000	99	843114	12.5	11.8	
* 138 Pyrene-d10 (IS)	212	10.155	10.155	0.000	98	547418	5.00	5.00	
139 Pyrene	202	10.172	10.178	-0.006	98	1675632	12.5	12.6	
147 Famphur	218		10.330				ND	ND	
145 p-Dimethylamino azobenzene	225	10.475	10.476	-0.001	90	294636	12.5	12.5	
146 Chlorobenzilate	139	10.528	10.528	0.000	97	387085	12.5	12.8	
148 3,3'-Dimethylbenzidine	212	10.831	10.831	0.000	99	813428	12.5	11.6	
150 Butyl benzyl phthalate	149	10.854	10.860	-0.006	95	597324	12.5	13.8	
151 2-Acetylaminofluorene	181	11.105	11.105	0.000	93	454408	12.5	12.7	
153 3,3'-Dichlorobenzidine	252	11.449	11.449	0.000	72	578557	12.5	12.9	
154 4,4'-Methylene bis(2-chloroanil	231	11.455	11.461	-0.006	96	316303	12.5	13.2	
152 Benzo[a]anthracene	228	11.466	11.466	0.000	97	1662591	12.5	13.9	
155 Chrysene	228	11.507	11.513	-0.006	96	1649342	12.5	13.3	
156 Bis(2-ethylhexyl) phthalate	149	11.542	11.542	0.000	97	762412	12.5	15.6	E
157 6-Methylchrysene	242	12.090	12.090	0.000	98	1040810	12.5	12.8	
158 Di-n-octyl phthalate	149	12.422	12.422	0.000	100	1090756	12.5	15.6	E

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
159 Benzo[b]fluoranthene	252	12.889	12.889	-0.001	96	1593919	12.5	13.6	
160 7,12-Dimethylbenz(a)anthracene	256	12.889	12.889	-0.001	70	644068	12.5	13.6	
161 Benzo[k]fluoranthene	252	12.929	12.929	0.000	97	1581994	12.5	13.3	
162 Benzo[a]pyrene	252	13.355	13.355	0.000	75	1360637	12.5	14.6	
* 163 Perylene-d12	264	13.436	13.431	0.005	99	446400	5.00	5.00	
164 3-Methylcholanthrene	268	13.874	13.874	0.000	89	647080	12.5	12.8	
165 Dibenz[a,h]acridine	279	14.672	14.672	0.000	90	1023009	12.5	14.2	
166 Dibenz[a,j]acridine	279	14.736	14.736	0.000	96	1257862	12.5	15.2	
167 Indeno[1,2,3-cd]pyrene	276	14.975	14.975	0.000	97	1136461	12.5	13.9	
168 Dibenz(a,h)anthracene	278	15.016	15.016	0.000	90	1306052	12.5	13.5	
169 Benzo[g,h,i]perylene	276	15.360	15.360	0.000	97	1322989	12.5	13.1	
S 170 Aramite, Total	185		44.000				12.5	ND	7
S 177 Isosafrole	162				0		12.5	10.7	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

E - Exceeded Maximum Amount

7 - Failed Limit of Detection

Review Flags

a - User Assigned ID

Reagents:

MSS_RV8270ICV_00018 Amount Added: 1.00 Units: mL

Report Date: 08-Nov-2022 08:54:17 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0711.D

Injection Date: 07-Nov-2022 22:28:30 Instrument ID: HP19760 Operator ID: kel10217

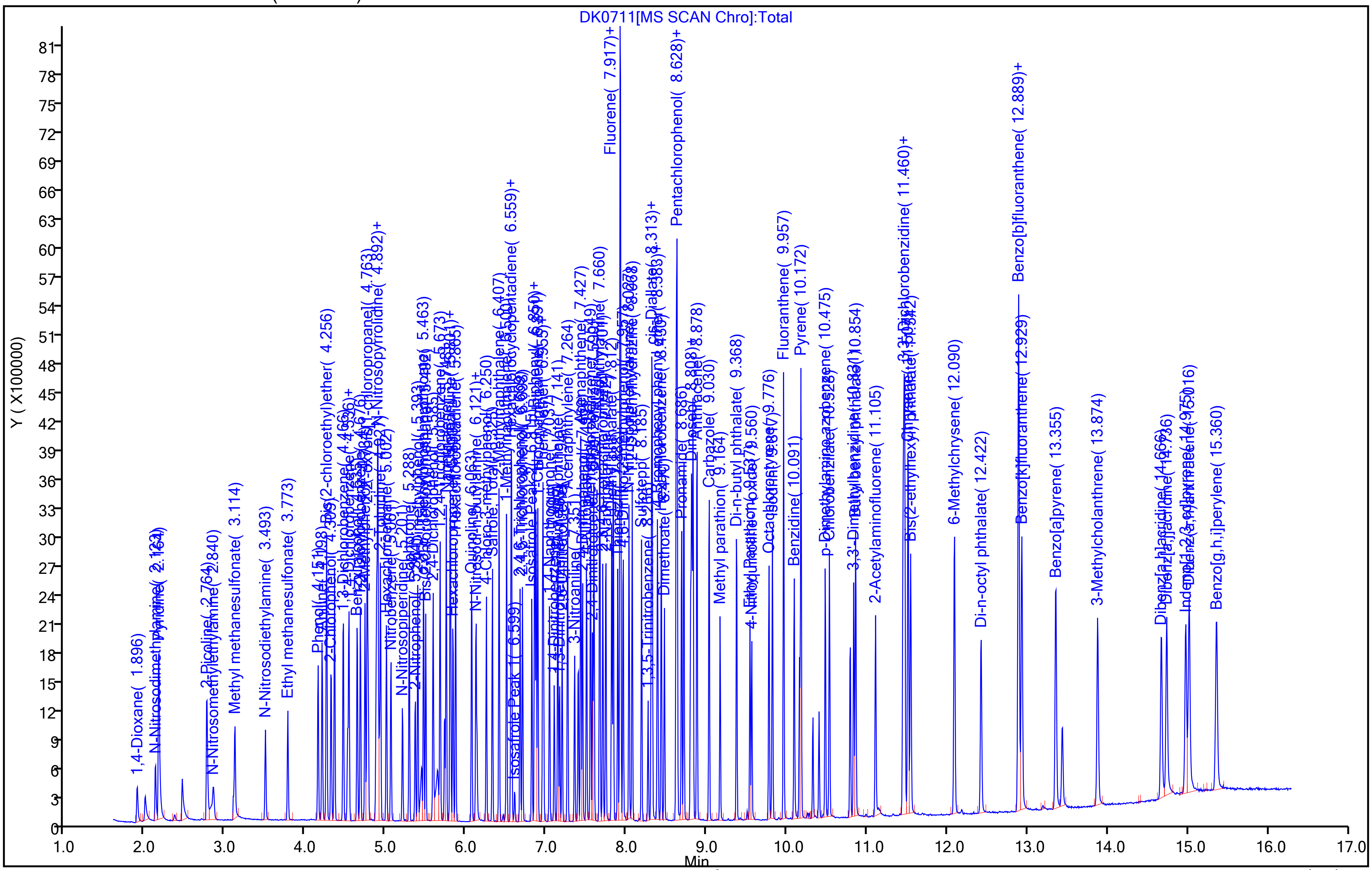
Lims ID: ICV FULL Worklist Smp#: 12

Client ID:

Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 11

Method: MSSemi_HP19760 Limit Group: MSSV - 8270D_E LVI

Column: DB-5MS 20m 0.25mm (0.25 mm)



 12/06/2022

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-106360-1

SDG No.:

Lab Sample ID: ICV 410-314883/12 Calibration Date: 11/07/2022 22:28

Instrument ID: HP19760 Calib Start Date: 07/24/2022 14:02

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 07/24/2022 16:10

Lab File ID: DK0711.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzoic acid	Qua1					12.5		30.0
Indene	Ave	2.550				12.5		30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0711.D
Lims ID: ICV FULL
Client ID:
Sample Type: ICV
Inject. Date: 07-Nov-2022 22:28:30 ALS Bottle#: 11 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICV FULL
Misc. Info.: 410-0070576-012
Operator ID: kel10217 Instrument ID: HP19760
Sublist:

Method: \\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\MSSemi_HP19760.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 08-Nov-2022 08:52:42 Calib Date: 08-Nov-2022 01:34:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0720.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1681

First Level Reviewer: W6XI Date: 08-Nov-2022 08:15:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
2 1,4-Dioxane	88	1.896	1.896	0.000	92	195800	12.5	13.0	
3 N-Nitrosodimethylamine	74	2.123	2.123	0.000	94	315709	12.5	12.0	
4 Pyridine	79	2.164	2.164	0.000	96	1008291	25.0	25.1	
6 2-Picoline	93	2.764	2.764	0.000	89	521487	12.5	13.1	
7 N-Nitrosomethylethylamine	88	2.846	2.846	0.000	93	219265	12.5	12.3	
8 Methyl methanesulfonate	80	3.114	3.114	0.000	86	306912	12.5	13.0	
11 N-Nitrosodiethylamine	102	3.493	3.493	0.000	95	207028	12.5	13.1	
12 Ethyl methanesulfonate	109	3.773	3.773	0.000	96	209288	12.5	12.1	
26 Indene	115		4.067				ND	ND	
18 Phenol	94	4.151	4.151	0.000	94	558926	12.5	12.7	
16 Aniline	93	4.198	4.204	-0.006	94	685087	12.5	13.1	
19 Bis(2-chloroethyl)ether	93	4.256	4.262	-0.006	94	463084	12.5	13.0	
20 2-Chlorophenol	128	4.315	4.315	0.000	92	378961	12.5	13.2	
21 1,3-Dichlorobenzene	146	4.466	4.466	0.000	93	441215	12.5	12.9	
* 22 1,4-Dichlorobenzene-d4	152	4.519	4.513	0.006	97	116297	5.00	5.00	
23 1,4-Dichlorobenzene	146	4.536	4.536	0.000	89	447709	12.5	12.9	
25 Benzyl alcohol	108	4.635	4.641	-0.006	89	266355	12.5	12.6	
24 1,2-Dichlorobenzene	146	4.676	4.682	-0.006	92	424415	12.5	13.0	
27 2-Methylphenol	108	4.734	4.734	0.000	95	377111	12.5	13.1	
28 2,2'-oxybis[1-chloropropane]	45	4.775	4.775	0.000	91	502782	12.5	12.1	
45 Benzoic acid	105		4.819				ND	ND	
30 N-Nitrosopyrrolidine	100	4.874	4.874	0.000	88	219548	12.5	13.3	
35 4-Methylphenol	108	4.880	4.880	0.000	95	393192	12.5	12.6	
32 N-Nitrosodi-n-propylamine	70	4.892	4.892	0.000	84	386762	12.5	13.3	
31 Acetophenone	105	4.897	4.898	-0.001	95	646626	12.5	13.2	
33 N-Nitrosomorpholine	56	4.909	4.915	-0.006	85	267288	12.5	12.4	
34 2-Toluidine	106	4.927	4.927	0.000	95	707898	12.5	13.4	
36 Hexachloroethane	117	5.002	5.002	0.000	89	182617	12.5	12.3	
38 Nitrobenzene	77	5.061	5.061	0.000	84	531350	12.5	11.8	
39 N-Nitrosopiperidine	114	5.201	5.206	-0.005	84	199603	12.5	12.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
40 Isophorone	82	5.288	5.288	0.000	96	919091	12.5	12.5	
41 2-Nitrophenol	139	5.364	5.364	0.000	89	189657	12.5	13.0	
42 2,4-Dimethylphenol	107	5.393	5.393	0.000	98	409403	12.5	11.7	
43 o,o',o''-Triethylphosphorothioat	198	5.469	5.469	0.000	81	227773	12.5	12.0	
44 Bis(2-chloroethoxy)methane	93	5.492	5.492	0.000	98	555177	12.5	12.2	
47 2,4-Dichlorophenol	162	5.585	5.585	0.000	96	334974	12.5	12.7	
48 1,2,4-Trichlorobenzene	180	5.673	5.673	0.000	91	403892	12.5	12.3	
* 49 Naphthalene-d8	136	5.731	5.725	0.006	99	422027	5.00	5.00	
50 Naphthalene	128	5.748	5.749	-0.001	98	1117232	12.5	12.4	
52 4-Chloroaniline	127	5.795	5.795	0.000	93	460353	12.5	13.1	
53 2,6-Dichlorophenol	162	5.801	5.807	-0.006	94	346125	12.5	13.2	
54 Hexachloropropene	213	5.830	5.836	-0.006	87	321415	12.5	12.2	
55 Hexachlorobutadiene	225	5.865	5.865	0.000	94	287852	12.5	12.8	
56 Quinoline	129	6.063	6.063	0.000	95	722812	12.5	13.1	
59 N-Nitrosodi-n-butylamine	84	6.121	6.122	-0.001	91	345335	12.5	10.2	
58 p-Phenylene diamine	108	6.133	6.133	0.000	94	268046	12.5	8.64	7a
60 4-Chloro-3-methylphenol	107	6.250	6.250	0.000	91	367098	12.5	12.8	
61 Safrole, Total	162	6.325	6.326	-0.001	87	294504	12.5	12.0	
62 2-Methylnaphthalene	142	6.407	6.407	0.000	92	750167	12.5	13.4	
63 1-Methylnaphthalene	142	6.500	6.500	0.000	93	692163	12.5	12.2	
64 Hexachlorocyclopentadiene	237	6.559	6.559	0.000	94	314771	12.5	10.7	
65 1,2,4,5-Tetrachlorobenzene	216	6.564	6.565	-0.001	96	498293	12.5	12.3	
66 Isosafrole Peak 1	162	6.605	6.605	0.000	86	39139	1.50	1.42	
68 2,4,6-Trichlorophenol	196	6.669	6.669	0.000	92	275232	12.5	12.5	
69 2,4,5-Trichlorophenol	196	6.698	6.704	-0.006	93	305480	12.5	12.7	
71 Isosafrole Peak 2	162	6.815	6.815	0.000	89	295443	11.0	9.26	
77 1,1'-Biphenyl	154	6.850	6.856	-0.006	95	982674	12.5	12.1	
78 2-Chloronaphthalene	162	6.868	6.873	-0.005	95	759089	12.5	12.1	
79 1-Chloronaphthalene	162	6.891	6.891	0.000	98	747807	12.5	12.2	
80 Phenyl ether	170	6.955	6.955	0.000	87	548155	12.5	11.9	
81 2-Nitroaniline	138	6.961	6.967	-0.006	77	217713	12.5	13.6	
82 1,4-Naphthoquinone	158	7.037	7.037	0.000	80	285575	12.5	12.9	
83 1,4-Dinitrobenzene	168	7.095	7.101	-0.006	84	123265	12.5	13.3	
84 Dimethyl phthalate	163	7.141	7.142	-0.001	97	855110	12.5	12.3	
85 1,3-Dinitrobenzene	168	7.165	7.165	0.000	83	136522	12.5	12.9	
86 2,6-Dinitrotoluene	165	7.194	7.194	0.000	90	197475	12.5	13.0	
87 Acenaphthylene	152	7.264	7.264	0.000	99	1140033	12.5	13.1	
88 3-Nitroaniline	138	7.351	7.351	0.000	86	192311	12.5	13.6	
* 89 Acenaphthene-d10	164	7.398	7.392	0.006	94	264601	5.00	5.00	
90 Acenaphthene	153	7.427	7.427	0.000	96	773176	12.5	12.3	
91 2,4-Dinitrophenol	184	7.450	7.450	0.000	85	273314	25.0	26.4	
93 4-Nitrophenol	109	7.497	7.497	0.000	83	290106	25.0	26.9	
92 Pentachlorobenzene	250	7.549	7.550	-0.001	98	425189	12.5	12.4	
95 2,4-Dinitrotoluene	165	7.573	7.573	0.000	88	256506	12.5	13.1	
94 Dibenzofuran	168	7.590	7.590	0.000	97	1112895	12.5	12.2	
96 1-Naphthylamine	143	7.666	7.666	0.000	98	715042	12.5	13.1	
97 2,3,4,6-Tetrachlorophenol	232	7.701	7.701	0.000	70	304215	12.5	13.7	
98 2-Naphthylamine	143	7.742	7.742	0.000	95	787472	12.5	13.0	
99 Diethyl phthalate	149	7.812	7.812	0.000	98	841689	12.5	12.6	
101 Thionazin	107	7.888	7.888	0.000	78	135146	12.5	11.8	
100 Fluorene	166	7.917	7.917	0.000	92	912952	12.5	12.6	
102 4-Chlorophenyl phenyl ether	204	7.923	7.923	-0.001	89	516846	12.5	12.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
103 N-Nitro-o-toluidine	152	7.923	7.923	-0.001	82	235412	12.5	13.3	
104 4-Nitroaniline	138	7.928	7.928	0.000	76	204913	12.5	13.3	
105 4,6-Dinitro-2-methylphenol	198	7.957	7.958	-0.001	86	365583	25.0	27.2	
106 N-Nitrosodiphenylamine	169	8.027	8.028	-0.001	76	635485	10.6	11.1	
107 1,2-Diphenylhydrazine	77	8.068	8.068	0.000	41	1137307	12.5	13.2	
109 Sulfotepp	97	8.185	8.185	0.000	78	159005	12.5	12.4	
110 1,3,5-Trinitrobenzene	213	8.266	8.266	0.000	83	101598	12.5	12.4	
111 cis-Diallate	86	8.307	8.307	0.000	0	323984	9.38	9.23	
112 Phorate	75	8.313	8.313	0.000	95	646239	12.5	13.1	
113 Phenacetin	108	8.319	8.319	0.000	89	416365	12.5	13.5	
114 4-Bromophenyl phenyl ether	248	8.383	8.383	0.000	64	319910	12.5	12.7	
115 trans-Diallate	86	8.389	8.395	-0.006	0	116063	3.13	3.27	
116 Hexachlorobenzene	284	8.430	8.436	-0.006	96	351508	12.5	12.3	
117 Dimethoate	87	8.470	8.470	0.000	97	367354	12.5	12.9	
119 Pentachlorophenol	266	8.616	8.616	0.000	93	438147	25.0	27.4	
121 4-Aminobiphenyl	169	8.628	8.628	0.000	91	997631	12.5	12.7	
120 Pentachloronitrobenzene	237	8.628	8.634	-0.006	88	150727	12.5	12.5	
122 Pronamide	173	8.686	8.686	0.000	90	395676	12.5	13.6	
125 Dinoseb	211	8.797	8.797	0.000	96	247743	12.5	12.3	
* 123 Phenanthrene-d10	188	8.803	8.803	0.000	98	522723	5.00	5.00	
126 Disulfoton	88	8.814	8.814	0.000	96	599225	12.5	12.1	
124 Phenanthrene	178	8.826	8.826	0.000	97	1395866	12.5	12.6	
127 Anthracene	178	8.878	8.878	0.000	97	1402107	12.5	13.0	
128 Carbazole	167	9.030	9.030	0.000	96	1191202	12.5	12.9	
129 Methyl parathion	109	9.164	9.164	0.000	93	259506	12.5	11.9	
130 Di-n-butyl phthalate	149	9.368	9.374	-0.006	100	1320522	12.5	13.4	
132 Ethyl Parathion	109	9.537	9.537	0.000	85	159262	12.5	13.1	
131 4-Nitroquinoline-1-oxide	190	9.560	9.560	0.000	78	96055	12.5	11.1	
S 67 Diallate	86				0		12.5	12.5	
140 Aramite Peak 1	185		9.686				ND	ND	
141 Aramite Peak 2	185		9.709				ND	ND	
143 Aramite Peak 3	185		9.750				ND	ND	
134 Octachlorostyrene	308	9.776	9.776	0.000	90	134527	12.5	12.4	
135 Isodrin	193	9.817	9.817	0.000	92	172571	12.5	11.9	
144 Aramite Peak 4	185		9.825				ND	ND	
136 Fluoranthene	202	9.957	9.957	0.000	97	1575551	12.5	13.1	
137 Benzidine	184	10.091	10.091	0.000	99	843114	12.5	11.8	
* 138 Pyrene-d10 (IS)	212	10.155	10.155	0.000	98	547418	5.00	5.00	
139 Pyrene	202	10.172	10.178	-0.006	98	1675632	12.5	12.6	
147 Famphur	218		10.330				ND	ND	
145 p-Dimethylamino azobenzene	225	10.475	10.476	-0.001	90	294636	12.5	12.5	
146 Chlorobenzilate	139	10.528	10.528	0.000	97	387085	12.5	12.8	
148 3,3'-Dimethylbenzidine	212	10.831	10.831	0.000	99	813428	12.5	11.6	
150 Butyl benzyl phthalate	149	10.854	10.860	-0.006	95	597324	12.5	13.8	
151 2-Acetylaminofluorene	181	11.105	11.105	0.000	93	454408	12.5	12.7	
153 3,3'-Dichlorobenzidine	252	11.449	11.449	0.000	72	578557	12.5	12.9	
154 4,4'-Methylene bis(2-chloroanil	231	11.455	11.461	-0.006	96	316303	12.5	13.2	
152 Benzo[a]anthracene	228	11.466	11.466	0.000	97	1662591	12.5	13.9	
155 Chrysene	228	11.507	11.513	-0.006	96	1649342	12.5	13.3	
156 Bis(2-ethylhexyl) phthalate	149	11.542	11.542	0.000	97	762412	12.5	15.6	E
157 6-Methylchrysene	242	12.090	12.090	0.000	98	1040810	12.5	12.8	
158 Di-n-octyl phthalate	149	12.422	12.422	0.000	100	1090756	12.5	15.6	E

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
159 Benzo[b]fluoranthene	252	12.889	12.889	-0.001	96	1593919	12.5	13.6	
160 7,12-Dimethylbenz(a)anthracene	256	12.889	12.889	-0.001	70	644068	12.5	13.6	
161 Benzo[k]fluoranthene	252	12.929	12.929	0.000	97	1581994	12.5	13.3	
162 Benzo[a]pyrene	252	13.355	13.355	0.000	75	1360637	12.5	14.6	
* 163 Perylene-d12	264	13.436	13.431	0.005	99	446400	5.00	5.00	
164 3-Methylcholanthrene	268	13.874	13.874	0.000	89	647080	12.5	12.8	
165 Dibenz[a,h]acridine	279	14.672	14.672	0.000	90	1023009	12.5	14.2	
166 Dibenz[a,j]acridine	279	14.736	14.736	0.000	96	1257862	12.5	15.2	
167 Indeno[1,2,3-cd]pyrene	276	14.975	14.975	0.000	97	1136461	12.5	13.9	
168 Dibenz(a,h)anthracene	278	15.016	15.016	0.000	90	1306052	12.5	13.5	
169 Benzo[g,h,i]perylene	276	15.360	15.360	0.000	97	1322989	12.5	13.1	
S 170 Aramite, Total	185		44.000				12.5	ND	7
S 177 Isosafrole	162				0		12.5	10.7	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

E - Exceeded Maximum Amount

7 - Failed Limit of Detection

Review Flags

a - User Assigned ID

Reagents:

MSS_RV8270ICV_00018 Amount Added: 1.00 Units: mL

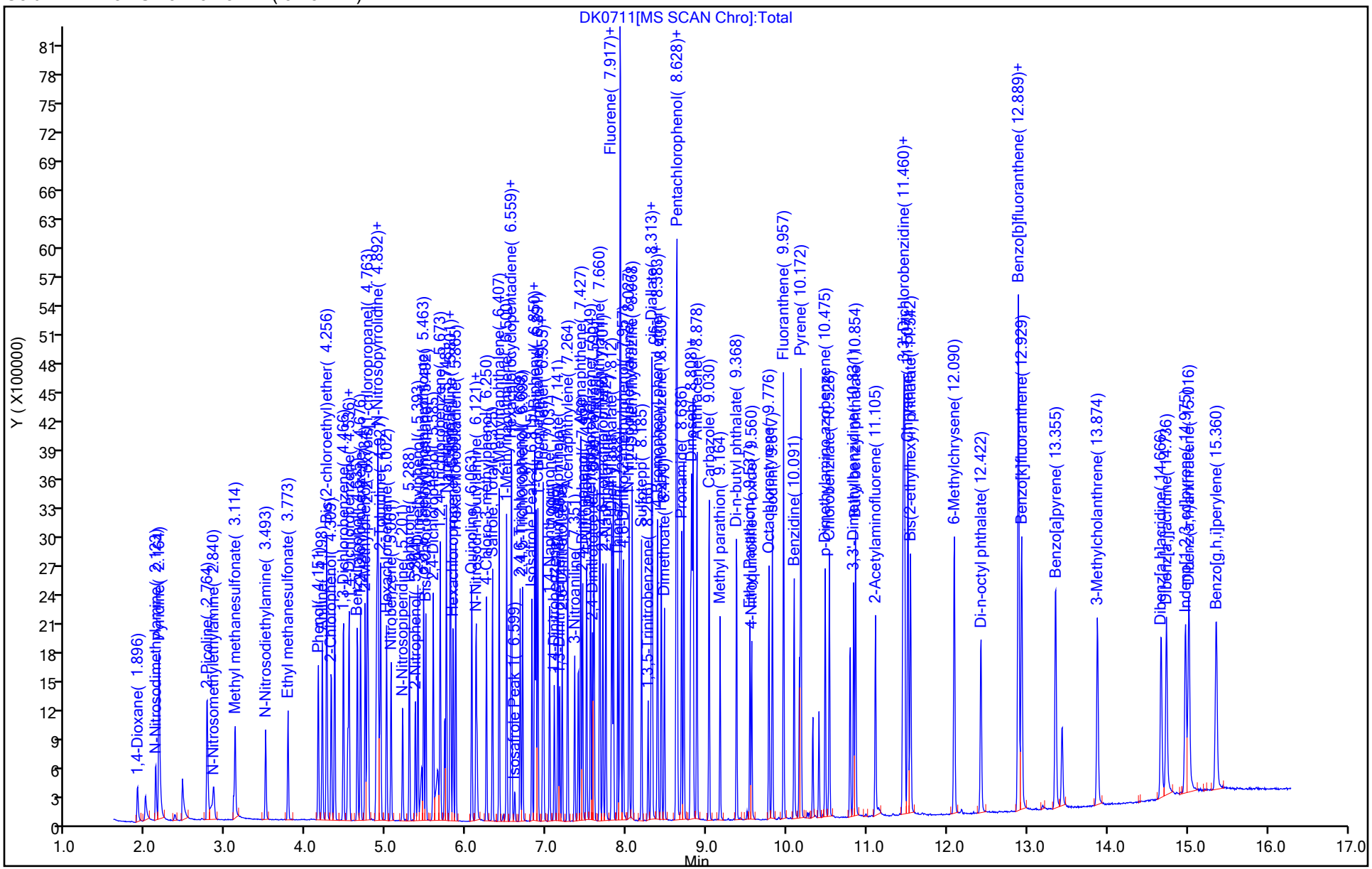
Report Date: 08-Nov-2022 08:54:17 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0711.D

Injection Date:	07-Nov-2022 22:28:30	Instrument ID:	HP19760	Operator ID:	kel10217
Lims ID:	ICV FULL			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	MSSemi_HP19760	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-106360-1

SDG No.:

Lab Sample ID: ICV 410-314883/12 Calibration Date: 11/07/2022 22:28

Instrument ID: HP19760 Calib Start Date: 10/10/2022 19:53

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 10/10/2022 19:53

Lab File ID: DK0711.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Aramite Peak 1	Ave	0.0325				1.25		30.0
Aramite Peak 2	Ave	0.0372				1.25		30.0
Aramite Peak 3	Ave	0.1064				5.00		30.0
Aramite Peak 4	Ave	0.1407				5.00		30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0711.D
Lims ID: ICV FULL
Client ID:
Sample Type: ICV
Inject. Date: 07-Nov-2022 22:28:30 ALS Bottle#: 11 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICV FULL
Misc. Info.: 410-0070576-012
Operator ID: kel10217 Instrument ID: HP19760
Sublist:

Method: \\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\MSSemi_HP19760.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 08-Nov-2022 08:52:42 Calib Date: 08-Nov-2022 01:34:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0720.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1681

First Level Reviewer: W6XI Date: 08-Nov-2022 08:15:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
2 1,4-Dioxane	88	1.896	1.896	0.000	92	195800	12.5	13.0	
3 N-Nitrosodimethylamine	74	2.123	2.123	0.000	94	315709	12.5	12.0	
4 Pyridine	79	2.164	2.164	0.000	96	1008291	25.0	25.1	
6 2-Picoline	93	2.764	2.764	0.000	89	521487	12.5	13.1	
7 N-Nitrosomethylethylamine	88	2.846	2.846	0.000	93	219265	12.5	12.3	
8 Methyl methanesulfonate	80	3.114	3.114	0.000	86	306912	12.5	13.0	
11 N-Nitrosodiethylamine	102	3.493	3.493	0.000	95	207028	12.5	13.1	
12 Ethyl methanesulfonate	109	3.773	3.773	0.000	96	209288	12.5	12.1	
26 Indene	115		4.067				ND	ND	
18 Phenol	94	4.151	4.151	0.000	94	558926	12.5	12.7	
16 Aniline	93	4.198	4.204	-0.006	94	685087	12.5	13.1	
19 Bis(2-chloroethyl)ether	93	4.256	4.262	-0.006	94	463084	12.5	13.0	
20 2-Chlorophenol	128	4.315	4.315	0.000	92	378961	12.5	13.2	
21 1,3-Dichlorobenzene	146	4.466	4.466	0.000	93	441215	12.5	12.9	
* 22 1,4-Dichlorobenzene-d4	152	4.519	4.513	0.006	97	116297	5.00	5.00	
23 1,4-Dichlorobenzene	146	4.536	4.536	0.000	89	447709	12.5	12.9	
25 Benzyl alcohol	108	4.635	4.641	-0.006	89	266355	12.5	12.6	
24 1,2-Dichlorobenzene	146	4.676	4.682	-0.006	92	424415	12.5	13.0	
27 2-Methylphenol	108	4.734	4.734	0.000	95	377111	12.5	13.1	
28 2,2'-oxybis[1-chloropropane]	45	4.775	4.775	0.000	91	502782	12.5	12.1	
45 Benzoic acid	105		4.819				ND	ND	
30 N-Nitrosopyrrolidine	100	4.874	4.874	0.000	88	219548	12.5	13.3	
35 4-Methylphenol	108	4.880	4.880	0.000	95	393192	12.5	12.6	
32 N-Nitrosodi-n-propylamine	70	4.892	4.892	0.000	84	386762	12.5	13.3	
31 Acetophenone	105	4.897	4.898	-0.001	95	646626	12.5	13.2	
33 N-Nitrosomorpholine	56	4.909	4.915	-0.006	85	267288	12.5	12.4	
34 2-Toluidine	106	4.927	4.927	0.000	95	707898	12.5	13.4	
36 Hexachloroethane	117	5.002	5.002	0.000	89	182617	12.5	12.3	
38 Nitrobenzene	77	5.061	5.061	0.000	84	531350	12.5	11.8	
39 N-Nitrosopiperidine	114	5.201	5.206	-0.005	84	199603	12.5	12.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
40 Isophorone	82	5.288	5.288	0.000	96	919091	12.5	12.5	
41 2-Nitrophenol	139	5.364	5.364	0.000	89	189657	12.5	13.0	
42 2,4-Dimethylphenol	107	5.393	5.393	0.000	98	409403	12.5	11.7	
43 o,o',o''-Triethylphosphorothioat	198	5.469	5.469	0.000	81	227773	12.5	12.0	
44 Bis(2-chloroethoxy)methane	93	5.492	5.492	0.000	98	555177	12.5	12.2	
47 2,4-Dichlorophenol	162	5.585	5.585	0.000	96	334974	12.5	12.7	
48 1,2,4-Trichlorobenzene	180	5.673	5.673	0.000	91	403892	12.5	12.3	
* 49 Naphthalene-d8	136	5.731	5.725	0.006	99	422027	5.00	5.00	
50 Naphthalene	128	5.748	5.749	-0.001	98	1117232	12.5	12.4	
52 4-Chloroaniline	127	5.795	5.795	0.000	93	460353	12.5	13.1	
53 2,6-Dichlorophenol	162	5.801	5.807	-0.006	94	346125	12.5	13.2	
54 Hexachloropropene	213	5.830	5.836	-0.006	87	321415	12.5	12.2	
55 Hexachlorobutadiene	225	5.865	5.865	0.000	94	287852	12.5	12.8	
56 Quinoline	129	6.063	6.063	0.000	95	722812	12.5	13.1	
59 N-Nitrosodi-n-butylamine	84	6.121	6.122	-0.001	91	345335	12.5	10.2	
58 p-Phenylene diamine	108	6.133	6.133	0.000	94	268046	12.5	8.64	7a
60 4-Chloro-3-methylphenol	107	6.250	6.250	0.000	91	367098	12.5	12.8	
61 Safrole, Total	162	6.325	6.326	-0.001	87	294504	12.5	12.0	
62 2-Methylnaphthalene	142	6.407	6.407	0.000	92	750167	12.5	13.4	
63 1-Methylnaphthalene	142	6.500	6.500	0.000	93	692163	12.5	12.2	
64 Hexachlorocyclopentadiene	237	6.559	6.559	0.000	94	314771	12.5	10.7	
65 1,2,4,5-Tetrachlorobenzene	216	6.564	6.565	-0.001	96	498293	12.5	12.3	
66 Isosafrole Peak 1	162	6.605	6.605	0.000	86	39139	1.50	1.42	
68 2,4,6-Trichlorophenol	196	6.669	6.669	0.000	92	275232	12.5	12.5	
69 2,4,5-Trichlorophenol	196	6.698	6.704	-0.006	93	305480	12.5	12.7	
71 Isosafrole Peak 2	162	6.815	6.815	0.000	89	295443	11.0	9.26	
77 1,1'-Biphenyl	154	6.850	6.856	-0.006	95	982674	12.5	12.1	
78 2-Chloronaphthalene	162	6.868	6.873	-0.005	95	759089	12.5	12.1	
79 1-Chloronaphthalene	162	6.891	6.891	0.000	98	747807	12.5	12.2	
80 Phenyl ether	170	6.955	6.955	0.000	87	548155	12.5	11.9	
81 2-Nitroaniline	138	6.961	6.967	-0.006	77	217713	12.5	13.6	
82 1,4-Naphthoquinone	158	7.037	7.037	0.000	80	285575	12.5	12.9	
83 1,4-Dinitrobenzene	168	7.095	7.101	-0.006	84	123265	12.5	13.3	
84 Dimethyl phthalate	163	7.141	7.142	-0.001	97	855110	12.5	12.3	
85 1,3-Dinitrobenzene	168	7.165	7.165	0.000	83	136522	12.5	12.9	
86 2,6-Dinitrotoluene	165	7.194	7.194	0.000	90	197475	12.5	13.0	
87 Acenaphthylene	152	7.264	7.264	0.000	99	1140033	12.5	13.1	
88 3-Nitroaniline	138	7.351	7.351	0.000	86	192311	12.5	13.6	
* 89 Acenaphthene-d10	164	7.398	7.392	0.006	94	264601	5.00	5.00	
90 Acenaphthene	153	7.427	7.427	0.000	96	773176	12.5	12.3	
91 2,4-Dinitrophenol	184	7.450	7.450	0.000	85	273314	25.0	26.4	
93 4-Nitrophenol	109	7.497	7.497	0.000	83	290106	25.0	26.9	
92 Pentachlorobenzene	250	7.549	7.550	-0.001	98	425189	12.5	12.4	
95 2,4-Dinitrotoluene	165	7.573	7.573	0.000	88	256506	12.5	13.1	
94 Dibenzofuran	168	7.590	7.590	0.000	97	1112895	12.5	12.2	
96 1-Naphthylamine	143	7.666	7.666	0.000	98	715042	12.5	13.1	
97 2,3,4,6-Tetrachlorophenol	232	7.701	7.701	0.000	70	304215	12.5	13.7	
98 2-Naphthylamine	143	7.742	7.742	0.000	95	787472	12.5	13.0	
99 Diethyl phthalate	149	7.812	7.812	0.000	98	841689	12.5	12.6	
101 Thionazin	107	7.888	7.888	0.000	78	135146	12.5	11.8	
100 Fluorene	166	7.917	7.917	0.000	92	912952	12.5	12.6	
102 4-Chlorophenyl phenyl ether	204	7.923	7.923	-0.001	89	516846	12.5	12.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
103 N-Nitro-o-toluidine	152	7.923	7.923	-0.001	82	235412	12.5	13.3	
104 4-Nitroaniline	138	7.928	7.928	0.000	76	204913	12.5	13.3	
105 4,6-Dinitro-2-methylphenol	198	7.957	7.958	-0.001	86	365583	25.0	27.2	
106 N-Nitrosodiphenylamine	169	8.027	8.028	-0.001	76	635485	10.6	11.1	
107 1,2-Diphenylhydrazine	77	8.068	8.068	0.000	41	1137307	12.5	13.2	
109 Sulfotepp	97	8.185	8.185	0.000	78	159005	12.5	12.4	
110 1,3,5-Trinitrobenzene	213	8.266	8.266	0.000	83	101598	12.5	12.4	
111 cis-Diallate	86	8.307	8.307	0.000	0	323984	9.38	9.23	
112 Phorate	75	8.313	8.313	0.000	95	646239	12.5	13.1	
113 Phenacetin	108	8.319	8.319	0.000	89	416365	12.5	13.5	
114 4-Bromophenyl phenyl ether	248	8.383	8.383	0.000	64	319910	12.5	12.7	
115 trans-Diallate	86	8.389	8.395	-0.006	0	116063	3.13	3.27	
116 Hexachlorobenzene	284	8.430	8.436	-0.006	96	351508	12.5	12.3	
117 Dimethoate	87	8.470	8.470	0.000	97	367354	12.5	12.9	
119 Pentachlorophenol	266	8.616	8.616	0.000	93	438147	25.0	27.4	
121 4-Aminobiphenyl	169	8.628	8.628	0.000	91	997631	12.5	12.7	
120 Pentachloronitrobenzene	237	8.628	8.634	-0.006	88	150727	12.5	12.5	
122 Pronamide	173	8.686	8.686	0.000	90	395676	12.5	13.6	
125 Dinoseb	211	8.797	8.797	0.000	96	247743	12.5	12.3	
* 123 Phenanthrene-d10	188	8.803	8.803	0.000	98	522723	5.00	5.00	
126 Disulfoton	88	8.814	8.814	0.000	96	599225	12.5	12.1	
124 Phenanthrene	178	8.826	8.826	0.000	97	1395866	12.5	12.6	
127 Anthracene	178	8.878	8.878	0.000	97	1402107	12.5	13.0	
128 Carbazole	167	9.030	9.030	0.000	96	1191202	12.5	12.9	
129 Methyl parathion	109	9.164	9.164	0.000	93	259506	12.5	11.9	
130 Di-n-butyl phthalate	149	9.368	9.374	-0.006	100	1320522	12.5	13.4	
132 Ethyl Parathion	109	9.537	9.537	0.000	85	159262	12.5	13.1	
131 4-Nitroquinoline-1-oxide	190	9.560	9.560	0.000	78	96055	12.5	11.1	
S 67 Diallate	86				0		12.5	12.5	
140 Aramite Peak 1	185		9.686				ND	ND	
141 Aramite Peak 2	185		9.709				ND	ND	
143 Aramite Peak 3	185		9.750				ND	ND	
134 Octachlorostyrene	308	9.776	9.776	0.000	90	134527	12.5	12.4	
135 Isodrin	193	9.817	9.817	0.000	92	172571	12.5	11.9	
144 Aramite Peak 4	185		9.825				ND	ND	
136 Fluoranthene	202	9.957	9.957	0.000	97	1575551	12.5	13.1	
137 Benzidine	184	10.091	10.091	0.000	99	843114	12.5	11.8	
* 138 Pyrene-d10 (IS)	212	10.155	10.155	0.000	98	547418	5.00	5.00	
139 Pyrene	202	10.172	10.178	-0.006	98	1675632	12.5	12.6	
147 Famphur	218		10.330				ND	ND	
145 p-Dimethylamino azobenzene	225	10.475	10.476	-0.001	90	294636	12.5	12.5	
146 Chlorobenzilate	139	10.528	10.528	0.000	97	387085	12.5	12.8	
148 3,3'-Dimethylbenzidine	212	10.831	10.831	0.000	99	813428	12.5	11.6	
150 Butyl benzyl phthalate	149	10.854	10.860	-0.006	95	597324	12.5	13.8	
151 2-Acetylaminofluorene	181	11.105	11.105	0.000	93	454408	12.5	12.7	
153 3,3'-Dichlorobenzidine	252	11.449	11.449	0.000	72	578557	12.5	12.9	
154 4,4'-Methylene bis(2-chloroanil	231	11.455	11.461	-0.006	96	316303	12.5	13.2	
152 Benzo[a]anthracene	228	11.466	11.466	0.000	97	1662591	12.5	13.9	
155 Chrysene	228	11.507	11.513	-0.006	96	1649342	12.5	13.3	
156 Bis(2-ethylhexyl) phthalate	149	11.542	11.542	0.000	97	762412	12.5	15.6	E
157 6-Methylchrysene	242	12.090	12.090	0.000	98	1040810	12.5	12.8	
158 Di-n-octyl phthalate	149	12.422	12.422	0.000	100	1090756	12.5	15.6	E

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
159 Benzo[b]fluoranthene	252	12.889	12.889	-0.001	96	1593919	12.5	13.6	
160 7,12-Dimethylbenz(a)anthracene	256	12.889	12.889	-0.001	70	644068	12.5	13.6	
161 Benzo[k]fluoranthene	252	12.929	12.929	0.000	97	1581994	12.5	13.3	
162 Benzo[a]pyrene	252	13.355	13.355	0.000	75	1360637	12.5	14.6	
* 163 Perylene-d12	264	13.436	13.431	0.005	99	446400	5.00	5.00	
164 3-Methylcholanthrene	268	13.874	13.874	0.000	89	647080	12.5	12.8	
165 Dibenz[a,h]acridine	279	14.672	14.672	0.000	90	1023009	12.5	14.2	
166 Dibenz[a,j]acridine	279	14.736	14.736	0.000	96	1257862	12.5	15.2	
167 Indeno[1,2,3-cd]pyrene	276	14.975	14.975	0.000	97	1136461	12.5	13.9	
168 Dibenz(a,h)anthracene	278	15.016	15.016	0.000	90	1306052	12.5	13.5	
169 Benzo[g,h,i]perylene	276	15.360	15.360	0.000	97	1322989	12.5	13.1	
S 170 Aramite, Total	185		44.000				12.5	ND	7
S 177 Isosafrole	162				0		12.5	10.7	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

E - Exceeded Maximum Amount

7 - Failed Limit of Detection

Review Flags

a - User Assigned ID

Reagents:

MSS_RV8270ICV_00018 Amount Added: 1.00 Units: mL

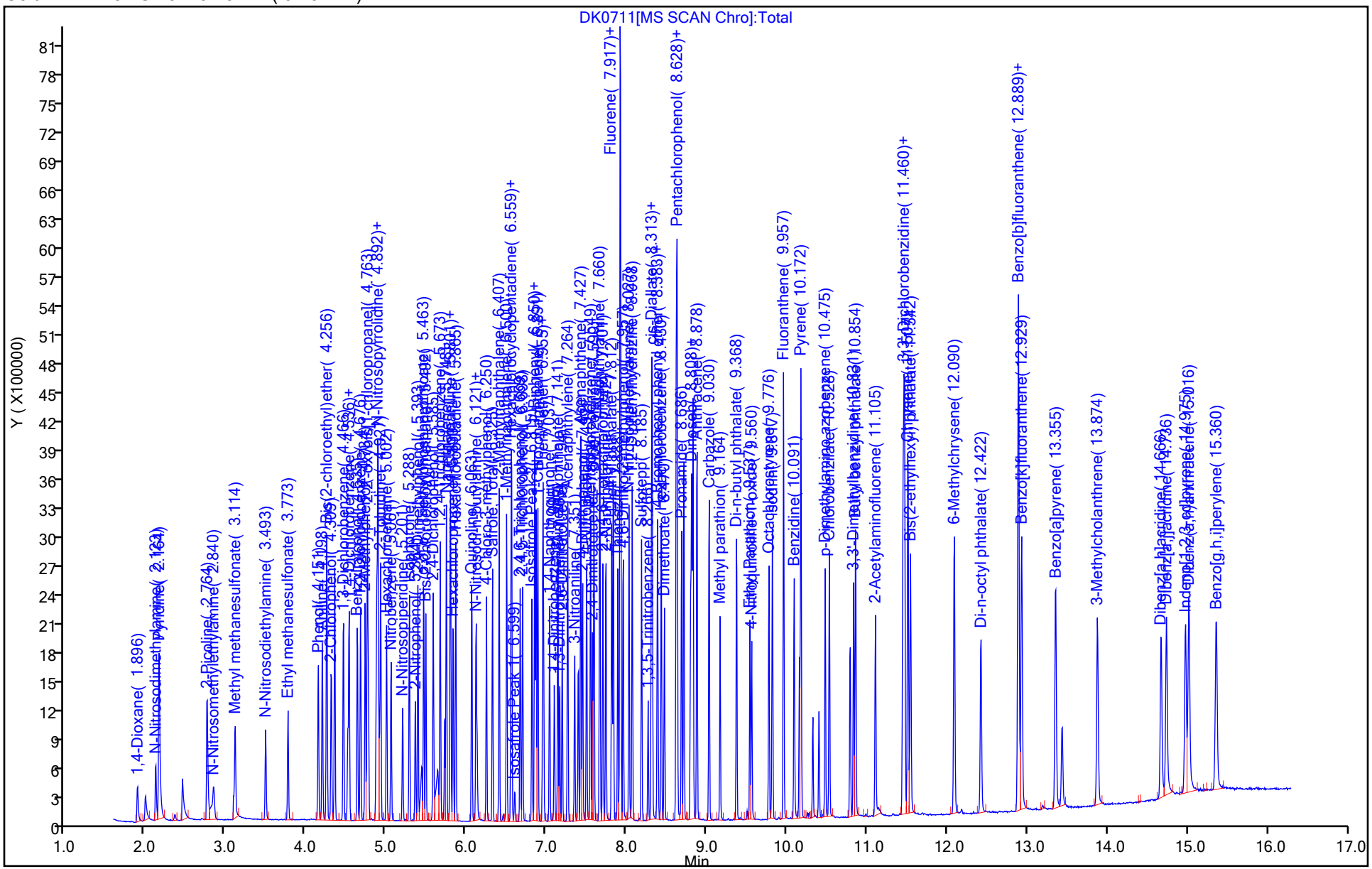
Report Date: 08-Nov-2022 08:54:17 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0711.D

Injection Date:	07-Nov-2022 22:28:30	Instrument ID:	HP19760	Operator ID:	kel10217
Lims ID:	ICV FULL			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	MSSemi_HP19760	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-106360-1

SDG No.:

Lab Sample ID: ICV 410-314883/12 Calibration Date: 11/07/2022 22:28

Instrument ID: HP19760 Calib Start Date: 11/07/2022 18:52

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 11/07/2022 21:25

Lab File ID: DK0711.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.6472	0.6734		13.0	12.5	4.1	30.0
N-Nitrosodimethylamine	Ave	1.130	1.086		12.0	12.5	-3.9	30.0
Pyridine	Ave	1.728	1.734		25.0	25.0	0.3	30.0
2-Picoline	Ave	1.714	1.794		13.0	12.5	4.6	30.0
N-Nitrosomethylethylamine	Ave	0.7645	0.7542		12.0	12.5	-1.4	30.0
Methyl methanesulfonate	Ave	1.016	1.056		13.0	12.5	3.9	30.0
N-Nitrosodiethylamine	Ave	0.6813	0.7121		13.0	12.5	4.5	30.0
Ethyl methanesulfonate	Ave	0.7461	0.7198		12.0	12.5	-3.5	30.0
Phenol	Ave	1.898	1.922	0.8000	13.0	12.5	1.3	30.0
Aniline	Ave	2.246	2.356		13.0	12.5	4.9	30.0
Bis(2-chloroethyl)ether	Ave	1.527	1.593	0.7000	13.0	12.5	4.3	30.0
2-Chlorophenol	Ave	1.232	1.303	0.8000	13.0	12.5	5.8	30.0
1,3-Dichlorobenzene	Ave	1.472	1.518		13.0	12.5	3.1	30.0
1,4-Dichlorobenzene	Ave	1.495	1.540		13.0	12.5	3.0	30.0
Benzyl alcohol	Ave	0.9097	0.9161		13.0	12.5	0.7	30.0
1,2-Dichlorobenzene	Ave	1.405	1.460		13.0	12.5	3.9	30.0
2-Methylphenol	Ave	1.242	1.297	0.7000	13.0	12.5	4.4	30.0
2,2'-oxybis[1-chloropropane]	Ave	1.790	1.729	0.0100	12.0	12.5	-3.4	30.0
N-Nitrosopyrrolidine	Ave	0.7093	0.7551		13.0	12.5	6.5	30.0
4-Methylphenol (and/or 3-Methylphenol)	Ave	1.344	1.352	0.6000	13.0	12.5	0.6	30.0
N-Nitrosodi-n-propylamine	Ave	1.252	1.330	0.5000	13.0	12.5	6.2	30.0
Acetophenone	Ave	2.109	2.224	0.0100	13.0	12.5	5.5	30.0
N-Nitrosomorpholine	Ave	0.9258	0.9193		12.0	12.5	-0.7	30.0
o-Toluidine	Ave	2.272	2.435		13.0	12.5	7.2	30.0
Hexachloroethane	Ave	0.6406	0.6281	0.3000	12.0	12.5	-2.0	30.0
Nitrobenzene	Ave	0.5355	0.5036	0.2000	12.0	12.5	-6.0	30.0
N-Nitrosopiperidine	Ave	0.1930	0.1892		12.0	12.5	-2.0	30.0
Isophorone	Ave	0.8746	0.8711	0.4000	12.0	12.5	-0.4	30.0
2-Nitrophenol	Ave	0.1731	0.1798	0.1000	13.0	12.5	3.8	30.0
2,4-Dimethylphenol	Ave	0.4140	0.3880	0.2000	12.0	12.5	-6.3	30.0
o,o',o''-Triethylphosphorothioate	Ave	0.2257	0.2159		12.0	12.5	-4.4	30.0
Bis(2-chloroethoxy)methane	Ave	0.5396	0.5262	0.3000	12.0	12.5	-2.5	30.0
2,4-Dichlorophenol	Ave	0.3122	0.3175	0.2000	13.0	12.5	1.7	30.0
1,2,4-Trichlorobenzene	Ave	0.3881	0.3828		12.0	12.5	-1.4	30.0
Naphthalene	Ave	1.066	1.059	0.7000	12.0	12.5	-0.7	30.0
4-Chloroaniline	Ave	0.4179	0.4363	0.0100	13.0	12.5	4.4	30.0
2,6-Dichlorophenol	Ave	0.3108	0.3281		13.0	12.5	5.6	30.0
Hexachloropropene	Ave	0.3121	0.3046		12.0	12.5	-2.4	30.0
Hexachlorobutadiene	Ave	0.2672	0.2728	0.0100	13.0	12.5	2.1	30.0
Quinoline	Ave	0.6533	0.6851		13.0	12.5	4.9	30.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-106360-1

SDG No.:

Lab Sample ID: ICV 410-314883/12 Calibration Date: 11/07/2022 22:28

Instrument ID: HP19760 Calib Start Date: 11/07/2022 18:52

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 11/07/2022 21:25

Lab File ID: DK0711.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
N-Nitrosodi-n-butylamine	Ave	0.4025	0.3273		10.0	12.5	-18.7	30.0
1,4-phenylenediamine	Ave	0.3674	0.2541			12.5	-30.8*	30.0
4-Chloro-3-methylphenol	Ave	0.3405	0.3479	0.2000	13.0	12.5	2.2	30.0
Safrole, Total	Ave	0.2901	0.2791		12.0	12.5	-3.8	30.0
2-Methylnaphthalene	Ave	0.6630	0.7110	0.4000	13.0	12.5	7.2	30.0
1-Methylnaphthalene	Ave	0.6722	0.6560		12.0	12.5	-2.4	30.0
Hexachlorocyclopentadiene	Ave	0.5579	0.4758	0.0500	11.0	12.5	-14.7	30.0
1,2,4,5-Tetrachlorobenzene	Ave	0.7638	0.7533	0.0100	12.0	12.5	-1.4	30.0
Isosafrole Peak 1	Ave	0.5211	0.4931		1.40	1.50	-5.4	30.0
2,4,6-Trichlorophenol	Ave	0.4161	0.4161	0.2000	13.0	12.5	0.0	30.0
2,4,5-Trichlorophenol	Ave	0.4534	0.4618	0.2000	13.0	12.5	1.9	30.0
Isosafrole Peak 2	Ave	0.6029	0.5075		9.30	11.0	-15.8	30.0
1,1'-Biphenyl	Ave	1.531	1.486	0.0100	12.0	12.5	-3.0	30.0
2-Chloronaphthalene	Ave	1.190	1.148	0.8000	12.0	12.5	-3.5	30.0
1-Chloronaphthalene	Ave	1.158	1.130		12.0	12.5	-2.4	30.0
Diphenyl ether	Ave	0.8707	0.8287		12.0	12.5	-4.8	30.0
2-Nitroaniline	Ave	0.3024	0.3291	0.0100	14.0	12.5	8.8	30.0
1,4-Naphthoquinone	Ave	0.4198	0.4317		13.0	12.5	2.8	30.0
1,4-Dinitrobenzene	Ave	0.1748	0.1863		13.0	12.5	6.6	30.0
Dimethyl phthalate	Ave	1.311	1.293	0.0100	12.0	12.5	-1.4	30.0
1,3-Dinitrobenzene	Ave	0.2001	0.2064		13.0	12.5	3.1	30.0
2,6-Dinitrotoluene	Ave	0.2875	0.2985	0.2000	13.0	12.5	3.8	30.0
Acenaphthylene	Ave	1.640	1.723	0.9000	13.0	12.5	5.1	30.0
3-Nitroaniline	Ave	0.2663	0.2907	0.0100	14.0	12.5	9.2	30.0
Acenaphthene	Ave	1.187	1.169	0.9000	12.0	12.5	-1.5	30.0
2,4-Dinitrophenol	Ave	0.1954	0.2066	0.0100	26.0	25.0	5.7	30.0
4-Nitrophenol	Ave	0.2036	0.2193	0.0100	27.0	25.0	7.7	30.0
Pentachlorobenzene	Ave	0.6459	0.6428		12.0	12.5	-0.5	30.0
2,4-Dinitrotoluene	Ave	0.3690	0.3878	0.2000	13.0	12.5	5.1	30.0
Dibenzofuran	Ave	1.725	1.682	0.8000	12.0	12.5	-2.5	30.0
1-Naphthylamine	Ave	1.035	1.081		13.0	12.5	4.5	30.0
2,3,4,6-Tetrachlorophenol	Ave	0.4185	0.4599	0.0100	14.0	12.5	9.9	30.0
2-Naphthylamine	Ave	1.142	1.190		13.0	12.5	4.2	30.0
Diethyl phthalate	Ave	1.267	1.272	0.0100	13.0	12.5	0.4	30.0
Thionazin	Ave	0.2163	0.2043		12.0	12.5	-5.5	30.0
Fluorene	Ave	1.370	1.380	0.9000	13.0	12.5	0.8	30.0
4-Chlorophenyl-phenyl ether	Ave	0.7546	0.7813	0.4000	13.0	12.5	3.5	30.0
5-Nitro-o-toluidine	Ave	0.3337	0.3559		13.0	12.5	6.6	30.0
4-Nitroaniline	Ave	0.2903	0.3098	0.0100	13.0	12.5	6.7	30.0
4,6-Dinitro-2-methylphenol	Ave	0.1285	0.1399	0.0100	27.0	25.0	8.8	30.0
N-Nitrosodiphenylamine	Ave	0.5493	0.5721	0.0100	11.0	10.6	4.2	30.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-106360-1

SDG No.:

Lab Sample ID: ICV 410-314883/12 Calibration Date: 11/07/2022 22:28

Instrument ID: HP19760 Calib Start Date: 11/07/2022 18:52

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 11/07/2022 21:25

Lab File ID: DK0711.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Diphenylhydrazine	Ave	0.8230	0.8703		13.0	12.5	5.7	30.0
Sulfotepp	Ave	0.1222	0.1217		12.0	12.5	-0.5	30.0
1,3,5-Trinitrobenzene	Lin2		0.0777			12.5	-0.7	30.0
cis-Diallate	Ave	0.3357	0.3306		9.20	9.38	-1.5	30.0
Phorate	Ave	0.4702	0.4945		13.0	12.5	5.2	30.0
Phenacetin	Ave	0.2953	0.3186		13.0	12.5	7.9	30.0
4-Bromophenyl-phenylether	Ave	0.2405	0.2448	0.1000	13.0	12.5	1.8	30.0
trans-Diallate	Ave	0.3397	0.3553		3.30	3.13	4.6	30.0
Hexachlorobenzene	Ave	0.2730	0.2690	0.1000	12.0	12.5	-1.5	30.0
Dimethoate	Ave	0.2723	0.2811		13.0	12.5	3.2	30.0
Pentachlorophenol	Ave	0.1532	0.1676	0.0500	27.0	25.0	9.4	30.0
4-Aminobiphenyl	Ave	0.7535	0.7634		13.0	12.5	1.3	30.0
Pentachloronitrobenzene	Ave	0.1152	0.1153		13.0	12.5	0.1	30.0
Pronamide	Ave	0.2781	0.3028		14.0	12.5	8.9	30.0
Dinoseb	Lin2		0.1896		12.0	12.5	-1.7	30.0
Disulfoton	Ave	0.4749	0.4585		12.0	12.5	-3.5	30.0
Phenanthrene	Ave	1.063	1.068	0.7000	13.0	12.5	0.5	30.0
Anthracene	Ave	1.032	1.073	0.7000	13.0	12.5	3.9	30.0
Carbazole	Ave	0.8800	0.9115	0.0100	13.0	12.5	3.6	30.0
Methyl parathion	Lin2		0.1986		12.0	12.5	-4.4	30.0
Di-n-butyl phthalate	Ave	0.9437	1.010	0.0100	13.0	12.5	7.1	30.0
Parathion	Ave	0.1166	0.1219		13.0	12.5	4.5	30.0
4-Nitroquinoline-1-oxide	Lin2		0.0735		11.0	12.5	-11.2	30.0
Octachlorostyrene	Ave	0.1041	0.1029		12.0	12.5	-1.1	30.0
Isodrin	Ave	0.1385	0.1321		12.0	12.5	-4.7	30.0
Fluoranthene	Ave	1.148	1.206	0.6000	13.0	12.5	5.1	30.0
Benzidine	Ave	0.6548	0.6161		12.0	12.5	-5.9	30.0
Pyrene	Ave	1.214	1.224	0.6000	13.0	12.5	0.9	30.0
p-Dimethylamino azobenzene	Lin1		0.2153		13.0	12.5	0.4	30.0
Chlorobenzilate	Ave	0.2762	0.2828		13.0	12.5	2.4	30.0
3,3'-Dimethylbenzidine	Ave	0.6384	0.5944		12.0	12.5	-6.9	30.0
Butylbenzylphthalate	Ave	0.3957	0.4365	0.0100	14.0	12.5	10.3	30.0
2-Acetylaminofluorene	Ave	0.3274	0.3320		13.0	12.5	1.4	30.0
3,3'-Dichlorobenzidine	Ave	0.4084	0.4228	0.0100	13.0	12.5	3.5	30.0
4,4'-Methylene bis(2-chloroaniline)	Ave	0.2194	0.2311		13.0	12.5	5.3	30.0
Benzo[a]anthracene	Ave	1.094	1.215	0.8000	14.0	12.5	11.0	30.0
Chrysene	Ave	1.132	1.205	0.7000	13.0	12.5	6.5	30.0
Bis(2-ethylhexyl) phthalate	Ave	0.4455	0.5571	0.0100	16.0	12.5	25.0	30.0
6-Methylchrysene	Ave	0.7415	0.7605		13.0	12.5	2.6	30.0
Di-n-octyl phthalate	Ave	0.7819	0.9774	0.0100	16.0	12.5	25.0	30.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-106360-1

SDG No.:

Lab Sample ID: ICV 410-314883/12 Calibration Date: 11/07/2022 22:28

Instrument ID: HP19760 Calib Start Date: 11/07/2022 18:52

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 11/07/2022 21:25

Lab File ID: DK0711.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
7,12-Dimethylbenz(a)anthracene	Ave	0.5303	0.5771		14.0	12.5	8.8	30.0
Benzo[b]fluoranthene	Ave	1.316	1.428	0.7000	14.0	12.5	8.5	30.0
Benzo[k]fluoranthene	Ave	1.333	1.418	0.7000	13.0	12.5	6.4	30.0
Benzo[a]pyrene	Ave	1.041	1.219	0.7000	15.0	12.5	17.1	30.0
3-Methylcholanthrene	Ave	0.5644	0.5798		13.0	12.5	2.7	30.0
Dibenz[a,h]acridine	Ave	0.8097	0.9167		14.0	12.5	13.2	30.0
Dibenz[a,j]acridine	Ave	0.9270	1.127		15.0	12.5	21.6	30.0
Indeno[1,2,3-cd]pyrene	Ave	0.9176	1.018	0.5000	14.0	12.5	11.0	30.0
Dibenz(a,h)anthracene	Ave	1.083	1.170	0.4000	14.0	12.5	8.1	30.0
Benzo[g,h,i]perylene	Ave	1.127	1.185	0.5000	13.0	12.5	5.2	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0711.D
Lims ID: ICV FULL
Client ID:
Sample Type: ICV
Inject. Date: 07-Nov-2022 22:28:30 ALS Bottle#: 11 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICV FULL
Misc. Info.: 410-0070576-012
Operator ID: kel10217 Instrument ID: HP19760
Sublist:

Method: \\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\MSSemi_HP19760.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 08-Nov-2022 08:52:42 Calib Date: 08-Nov-2022 01:34:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0720.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1681

First Level Reviewer: W6XI Date: 08-Nov-2022 08:15:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
2 1,4-Dioxane	88	1.896	1.896	0.000	92	195800	12.5	13.0	
3 N-Nitrosodimethylamine	74	2.123	2.123	0.000	94	315709	12.5	12.0	
4 Pyridine	79	2.164	2.164	0.000	96	1008291	25.0	25.1	
6 2-Picoline	93	2.764	2.764	0.000	89	521487	12.5	13.1	
7 N-Nitrosomethylethylamine	88	2.846	2.846	0.000	93	219265	12.5	12.3	
8 Methyl methanesulfonate	80	3.114	3.114	0.000	86	306912	12.5	13.0	
11 N-Nitrosodiethylamine	102	3.493	3.493	0.000	95	207028	12.5	13.1	
12 Ethyl methanesulfonate	109	3.773	3.773	0.000	96	209288	12.5	12.1	
26 Indene	115		4.067				ND	ND	
18 Phenol	94	4.151	4.151	0.000	94	558926	12.5	12.7	
16 Aniline	93	4.198	4.204	-0.006	94	685087	12.5	13.1	
19 Bis(2-chloroethyl)ether	93	4.256	4.262	-0.006	94	463084	12.5	13.0	
20 2-Chlorophenol	128	4.315	4.315	0.000	92	378961	12.5	13.2	
21 1,3-Dichlorobenzene	146	4.466	4.466	0.000	93	441215	12.5	12.9	
* 22 1,4-Dichlorobenzene-d4	152	4.519	4.513	0.006	97	116297	5.00	5.00	
23 1,4-Dichlorobenzene	146	4.536	4.536	0.000	89	447709	12.5	12.9	
25 Benzyl alcohol	108	4.635	4.641	-0.006	89	266355	12.5	12.6	
24 1,2-Dichlorobenzene	146	4.676	4.682	-0.006	92	424415	12.5	13.0	
27 2-Methylphenol	108	4.734	4.734	0.000	95	377111	12.5	13.1	
28 2,2'-oxybis[1-chloropropane]	45	4.775	4.775	0.000	91	502782	12.5	12.1	
45 Benzoic acid	105		4.819				ND	ND	
30 N-Nitrosopyrrolidine	100	4.874	4.874	0.000	88	219548	12.5	13.3	
35 4-Methylphenol	108	4.880	4.880	0.000	95	393192	12.5	12.6	
32 N-Nitrosodi-n-propylamine	70	4.892	4.892	0.000	84	386762	12.5	13.3	
31 Acetophenone	105	4.897	4.898	-0.001	95	646626	12.5	13.2	
33 N-Nitrosomorpholine	56	4.909	4.915	-0.006	85	267288	12.5	12.4	
34 2-Toluidine	106	4.927	4.927	0.000	95	707898	12.5	13.4	
36 Hexachloroethane	117	5.002	5.002	0.000	89	182617	12.5	12.3	
38 Nitrobenzene	77	5.061	5.061	0.000	84	531350	12.5	11.8	
39 N-Nitrosopiperidine	114	5.201	5.206	-0.005	84	199603	12.5	12.3	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	40 Isophorone	82	5.288	5.288	0.000	96	919091	12.5	12.5	
	41 2-Nitrophenol	139	5.364	5.364	0.000	89	189657	12.5	13.0	
	42 2,4-Dimethylphenol	107	5.393	5.393	0.000	98	409403	12.5	11.7	
	43 o,o',o''-Triethylphosphorothioat	198	5.469	5.469	0.000	81	227773	12.5	12.0	
	44 Bis(2-chloroethoxy)methane	93	5.492	5.492	0.000	98	555177	12.5	12.2	
	47 2,4-Dichlorophenol	162	5.585	5.585	0.000	96	334974	12.5	12.7	
	48 1,2,4-Trichlorobenzene	180	5.673	5.673	0.000	91	403892	12.5	12.3	
*	49 Naphthalene-d8	136	5.731	5.725	0.006	99	422027	5.00	5.00	
	50 Naphthalene	128	5.748	5.749	-0.001	98	1117232	12.5	12.4	
	52 4-Chloroaniline	127	5.795	5.795	0.000	93	460353	12.5	13.1	
	53 2,6-Dichlorophenol	162	5.801	5.807	-0.006	94	346125	12.5	13.2	
	54 Hexachloropropene	213	5.830	5.836	-0.006	87	321415	12.5	12.2	
	55 Hexachlorobutadiene	225	5.865	5.865	0.000	94	287852	12.5	12.8	
	56 Quinoline	129	6.063	6.063	0.000	95	722812	12.5	13.1	
	59 N-Nitrosodi-n-butylamine	84	6.121	6.122	-0.001	91	345335	12.5	10.2	
	58 p-Phenylene diamine	108	6.133	6.133	0.000	94	268046	12.5	8.64	7a
	60 4-Chloro-3-methylphenol	107	6.250	6.250	0.000	91	367098	12.5	12.8	
	61 Safrole, Total	162	6.325	6.326	-0.001	87	294504	12.5	12.0	
	62 2-Methylnaphthalene	142	6.407	6.407	0.000	92	750167	12.5	13.4	
	63 1-Methylnaphthalene	142	6.500	6.500	0.000	93	692163	12.5	12.2	
	64 Hexachlorocyclopentadiene	237	6.559	6.559	0.000	94	314771	12.5	10.7	
	65 1,2,4,5-Tetrachlorobenzene	216	6.564	6.565	-0.001	96	498293	12.5	12.3	
	66 Isosafrole Peak 1	162	6.605	6.605	0.000	86	39139	1.50	1.42	
	68 2,4,6-Trichlorophenol	196	6.669	6.669	0.000	92	275232	12.5	12.5	
	69 2,4,5-Trichlorophenol	196	6.698	6.704	-0.006	93	305480	12.5	12.7	
	71 Isosafrole Peak 2	162	6.815	6.815	0.000	89	295443	11.0	9.26	
	77 1,1'-Biphenyl	154	6.850	6.856	-0.006	95	982674	12.5	12.1	
	78 2-Chloronaphthalene	162	6.868	6.873	-0.005	95	759089	12.5	12.1	
	79 1-Chloronaphthalene	162	6.891	6.891	0.000	98	747807	12.5	12.2	
	80 Phenyl ether	170	6.955	6.955	0.000	87	548155	12.5	11.9	
	81 2-Nitroaniline	138	6.961	6.967	-0.006	77	217713	12.5	13.6	
	82 1,4-Naphthoquinone	158	7.037	7.037	0.000	80	285575	12.5	12.9	
	83 1,4-Dinitrobenzene	168	7.095	7.101	-0.006	84	123265	12.5	13.3	
	84 Dimethyl phthalate	163	7.141	7.142	-0.001	97	855110	12.5	12.3	
	85 1,3-Dinitrobenzene	168	7.165	7.165	0.000	83	136522	12.5	12.9	
	86 2,6-Dinitrotoluene	165	7.194	7.194	0.000	90	197475	12.5	13.0	
	87 Acenaphthylene	152	7.264	7.264	0.000	99	1140033	12.5	13.1	
	88 3-Nitroaniline	138	7.351	7.351	0.000	86	192311	12.5	13.6	
*	89 Acenaphthene-d10	164	7.398	7.392	0.006	94	264601	5.00	5.00	
	90 Acenaphthene	153	7.427	7.427	0.000	96	773176	12.5	12.3	
	91 2,4-Dinitrophenol	184	7.450	7.450	0.000	85	273314	25.0	26.4	
	93 4-Nitrophenol	109	7.497	7.497	0.000	83	290106	25.0	26.9	
	92 Pentachlorobenzene	250	7.549	7.550	-0.001	98	425189	12.5	12.4	
	95 2,4-Dinitrotoluene	165	7.573	7.573	0.000	88	256506	12.5	13.1	
	94 Dibenzofuran	168	7.590	7.590	0.000	97	1112895	12.5	12.2	
	96 1-Naphthylamine	143	7.666	7.666	0.000	98	715042	12.5	13.1	
	97 2,3,4,6-Tetrachlorophenol	232	7.701	7.701	0.000	70	304215	12.5	13.7	
	98 2-Naphthylamine	143	7.742	7.742	0.000	95	787472	12.5	13.0	
	99 Diethyl phthalate	149	7.812	7.812	0.000	98	841689	12.5	12.6	
	101 Thionazin	107	7.888	7.888	0.000	78	135146	12.5	11.8	
	100 Fluorene	166	7.917	7.917	0.000	92	912952	12.5	12.6	
	102 4-Chlorophenyl phenyl ether	204	7.923	7.923	-0.001	89	516846	12.5	12.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
103 N-Nitro-o-toluidine	152	7.923	7.923	-0.001	82	235412	12.5	13.3	
104 4-Nitroaniline	138	7.928	7.928	0.000	76	204913	12.5	13.3	
105 4,6-Dinitro-2-methylphenol	198	7.957	7.958	-0.001	86	365583	25.0	27.2	
106 N-Nitrosodiphenylamine	169	8.027	8.028	-0.001	76	635485	10.6	11.1	
107 1,2-Diphenylhydrazine	77	8.068	8.068	0.000	41	1137307	12.5	13.2	
109 Sulfotepp	97	8.185	8.185	0.000	78	159005	12.5	12.4	
110 1,3,5-Trinitrobenzene	213	8.266	8.266	0.000	83	101598	12.5	12.4	
111 cis-Diallate	86	8.307	8.307	0.000	0	323984	9.38	9.23	
112 Phorate	75	8.313	8.313	0.000	95	646239	12.5	13.1	
113 Phenacetin	108	8.319	8.319	0.000	89	416365	12.5	13.5	
114 4-Bromophenyl phenyl ether	248	8.383	8.383	0.000	64	319910	12.5	12.7	
115 trans-Diallate	86	8.389	8.395	-0.006	0	116063	3.13	3.27	
116 Hexachlorobenzene	284	8.430	8.436	-0.006	96	351508	12.5	12.3	
117 Dimethoate	87	8.470	8.470	0.000	97	367354	12.5	12.9	
119 Pentachlorophenol	266	8.616	8.616	0.000	93	438147	25.0	27.4	
121 4-Aminobiphenyl	169	8.628	8.628	0.000	91	997631	12.5	12.7	
120 Pentachloronitrobenzene	237	8.628	8.634	-0.006	88	150727	12.5	12.5	
122 Pronamide	173	8.686	8.686	0.000	90	395676	12.5	13.6	
125 Dinoseb	211	8.797	8.797	0.000	96	247743	12.5	12.3	
* 123 Phenanthrene-d10	188	8.803	8.803	0.000	98	522723	5.00	5.00	
126 Disulfoton	88	8.814	8.814	0.000	96	599225	12.5	12.1	
124 Phenanthrene	178	8.826	8.826	0.000	97	1395866	12.5	12.6	
127 Anthracene	178	8.878	8.878	0.000	97	1402107	12.5	13.0	
128 Carbazole	167	9.030	9.030	0.000	96	1191202	12.5	12.9	
129 Methyl parathion	109	9.164	9.164	0.000	93	259506	12.5	11.9	
130 Di-n-butyl phthalate	149	9.368	9.374	-0.006	100	1320522	12.5	13.4	
132 Ethyl Parathion	109	9.537	9.537	0.000	85	159262	12.5	13.1	
131 4-Nitroquinoline-1-oxide	190	9.560	9.560	0.000	78	96055	12.5	11.1	
S 67 Diallate	86				0		12.5	12.5	
140 Aramite Peak 1	185		9.686				ND	ND	
141 Aramite Peak 2	185		9.709				ND	ND	
143 Aramite Peak 3	185		9.750				ND	ND	
134 Octachlorostyrene	308	9.776	9.776	0.000	90	134527	12.5	12.4	
135 Isodrin	193	9.817	9.817	0.000	92	172571	12.5	11.9	
144 Aramite Peak 4	185		9.825				ND	ND	
136 Fluoranthene	202	9.957	9.957	0.000	97	1575551	12.5	13.1	
137 Benzidine	184	10.091	10.091	0.000	99	843114	12.5	11.8	
* 138 Pyrene-d10 (IS)	212	10.155	10.155	0.000	98	547418	5.00	5.00	
139 Pyrene	202	10.172	10.178	-0.006	98	1675632	12.5	12.6	
147 Famphur	218		10.330				ND	ND	
145 p-Dimethylamino azobenzene	225	10.475	10.476	-0.001	90	294636	12.5	12.5	
146 Chlorobenzilate	139	10.528	10.528	0.000	97	387085	12.5	12.8	
148 3,3'-Dimethylbenzidine	212	10.831	10.831	0.000	99	813428	12.5	11.6	
150 Butyl benzyl phthalate	149	10.854	10.860	-0.006	95	597324	12.5	13.8	
151 2-Acetylaminofluorene	181	11.105	11.105	0.000	93	454408	12.5	12.7	
153 3,3'-Dichlorobenzidine	252	11.449	11.449	0.000	72	578557	12.5	12.9	
154 4,4'-Methylene bis(2-chloroanil	231	11.455	11.461	-0.006	96	316303	12.5	13.2	
152 Benzo[a]anthracene	228	11.466	11.466	0.000	97	1662591	12.5	13.9	
155 Chrysene	228	11.507	11.513	-0.006	96	1649342	12.5	13.3	
156 Bis(2-ethylhexyl) phthalate	149	11.542	11.542	0.000	97	762412	12.5	15.6	E
157 6-Methylchrysene	242	12.090	12.090	0.000	98	1040810	12.5	12.8	
158 Di-n-octyl phthalate	149	12.422	12.422	0.000	100	1090756	12.5	15.6	E

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
159 Benzo[b]fluoranthene	252	12.889	12.889	-0.001	96	1593919	12.5	13.6	
160 7,12-Dimethylbenz(a)anthracene	256	12.889	12.889	-0.001	70	644068	12.5	13.6	
161 Benzo[k]fluoranthene	252	12.929	12.929	0.000	97	1581994	12.5	13.3	
162 Benzo[a]pyrene	252	13.355	13.355	0.000	75	1360637	12.5	14.6	
* 163 Perylene-d12	264	13.436	13.431	0.005	99	446400	5.00	5.00	
164 3-Methylcholanthrene	268	13.874	13.874	0.000	89	647080	12.5	12.8	
165 Dibenz[a,h]acridine	279	14.672	14.672	0.000	90	1023009	12.5	14.2	
166 Dibenz[a,j]acridine	279	14.736	14.736	0.000	96	1257862	12.5	15.2	
167 Indeno[1,2,3-cd]pyrene	276	14.975	14.975	0.000	97	1136461	12.5	13.9	
168 Dibenz(a,h)anthracene	278	15.016	15.016	0.000	90	1306052	12.5	13.5	
169 Benzo[g,h,i]perylene	276	15.360	15.360	0.000	97	1322989	12.5	13.1	
S 170 Aramite, Total	185		44.000				12.5	ND	7
S 177 Isosafrole	162				0		12.5	10.7	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

E - Exceeded Maximum Amount

7 - Failed Limit of Detection

Review Flags

a - User Assigned ID

Reagents:

MSS_RV8270ICV_00018 Amount Added: 1.00 Units: mL

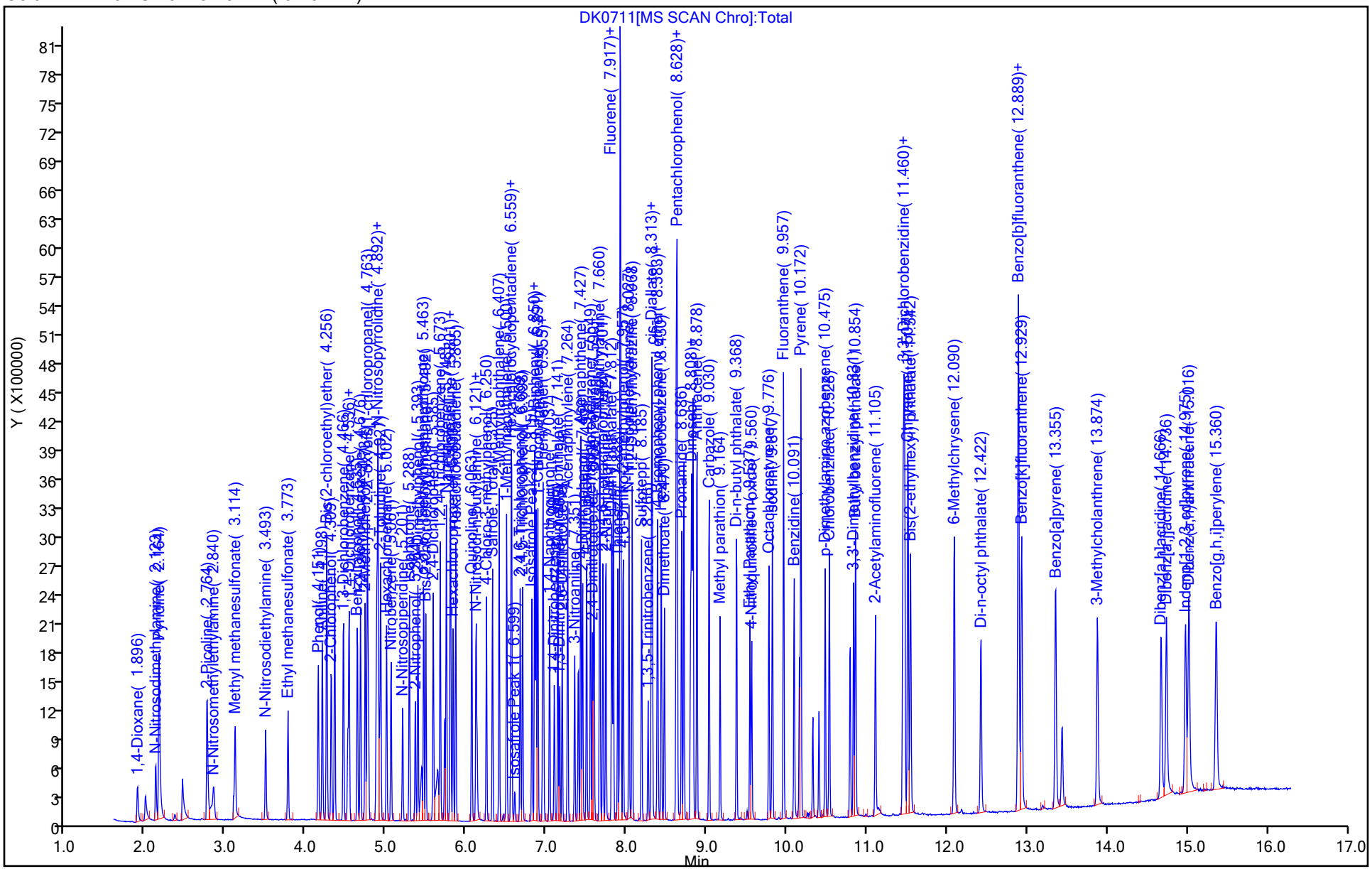
Report Date: 08-Nov-2022 08:54:17 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0711.D

Injection Date:	07-Nov-2022 22:28:30	Instrument ID:	HP19760	Operator ID:	kel10217
Lims ID:	ICV FULL			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	MSSemi_HP19760	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

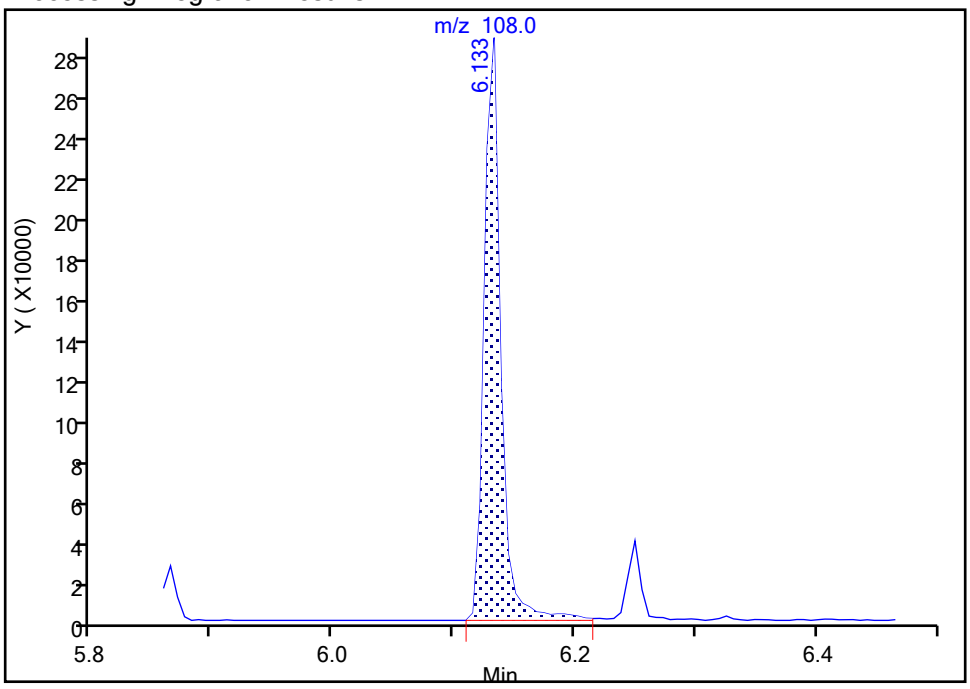
Data File:	\\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0711.D				
Injection Date:	07-Nov-2022 22:28:30	Instrument ID:	HP19760		
Lims ID:	ICV FULL				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	11	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP19760	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

58 p-Phenylene diamine, CAS: 106-50-3

Signal: 1

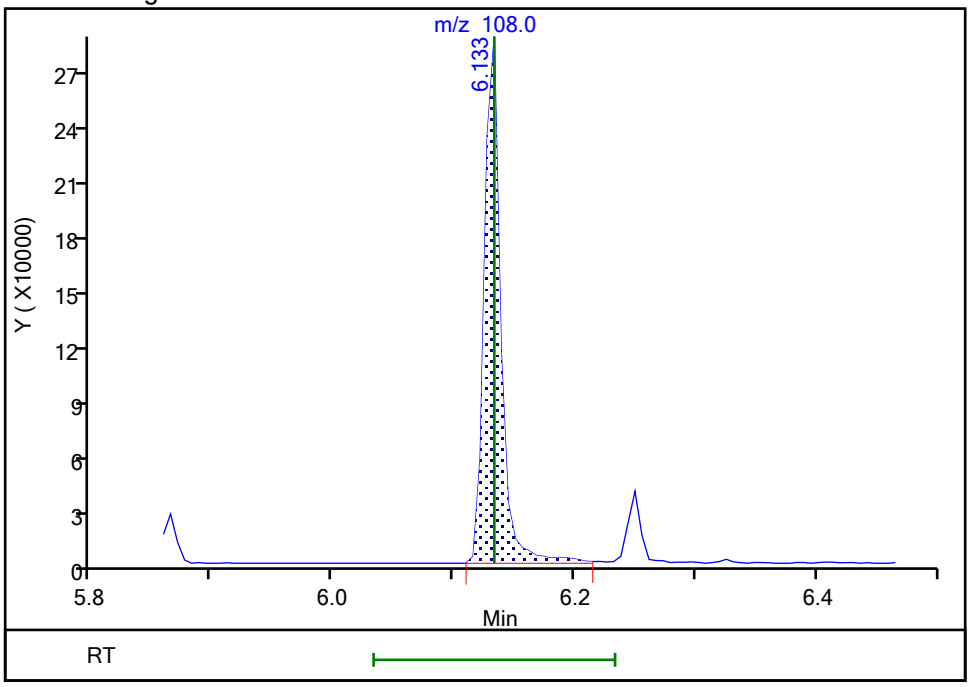
Processing Integration Results

RT: 6.13
Area: 268046
Amount: 8.643886
Amount Units: ug/ml



Manual Integration Results

RT: 6.13
Area: 268046
Amount: 8.643886
Amount Units: ug/ml



Reviewer: W6XI, 08-Nov-2022 08:13:43
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-106360-1

SDG No.:

Lab Sample ID: ICV 410-314883/13 Calibration Date: 11/07/2022 22:48

Instrument ID: HP19760 Calib Start Date: 11/07/2022 18:52

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 11/07/2022 21:25

Lab File ID: DK0712.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzaldehyde	Ave	1.451	1.363	0.0100	12.0	12.5	-6.0	30.0
Caprolactam	Ave	0.0986	0.0850	0.0100	11.0	12.5	-13.8	30.0
Atrazine	Ave	0.2085	0.1860	0.0100	11.0	12.5	-10.8	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0712.D
Lims ID: ICV BAS
Client ID:
Sample Type: ICV
Inject. Date: 07-Nov-2022 22:48:30 ALS Bottle#: 12 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICV BAS
Misc. Info.: 410-0070576-013
Operator ID: kel10217 Instrument ID: HP19760
Sublist:

Method: \\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\MSSemi_HP19760.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 08-Nov-2022 11:26:19 Calib Date: 08-Nov-2022 01:34:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0720.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1681

First Level Reviewer: W6XI Date: 08-Nov-2022 08:16:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
14 Benzaldehyde	77	4.105	4.111	-0.006	95	446440	12.5	11.7	
* 22 1,4-Dichlorobenzene-d4	152	4.519	4.525	-0.006	96	131012	5.00	5.00	
* 49 Naphthalene-d8	136	5.725	5.731	-0.006	100	454274	5.00	5.00	
57 Caprolactam	113	6.104	6.110	-0.006	82	96553	12.5	10.8	
* 89 Acenaphthene-d10	164	7.398	7.398	0.000	96	267638	5.00	5.00	
118 Atrazine	200	8.534	8.541	-0.007	94	258149	12.5	11.1	
* 123 Phenanthrene-d10	188	8.803	8.809	-0.006	97	555133	5.00	5.00	
* 138 Pyrene-d10 (IS)	212	10.155	10.161	-0.006	98	564610	5.00	5.00	
* 163 Perylene-d12	264	13.436	13.442	-0.006	99	436855	5.00	5.00	

QC Flag Legend
Processing Flags

Reagents:
MSS_RVBAS_ICV_00011 Amount Added: 1.00 Units: mL

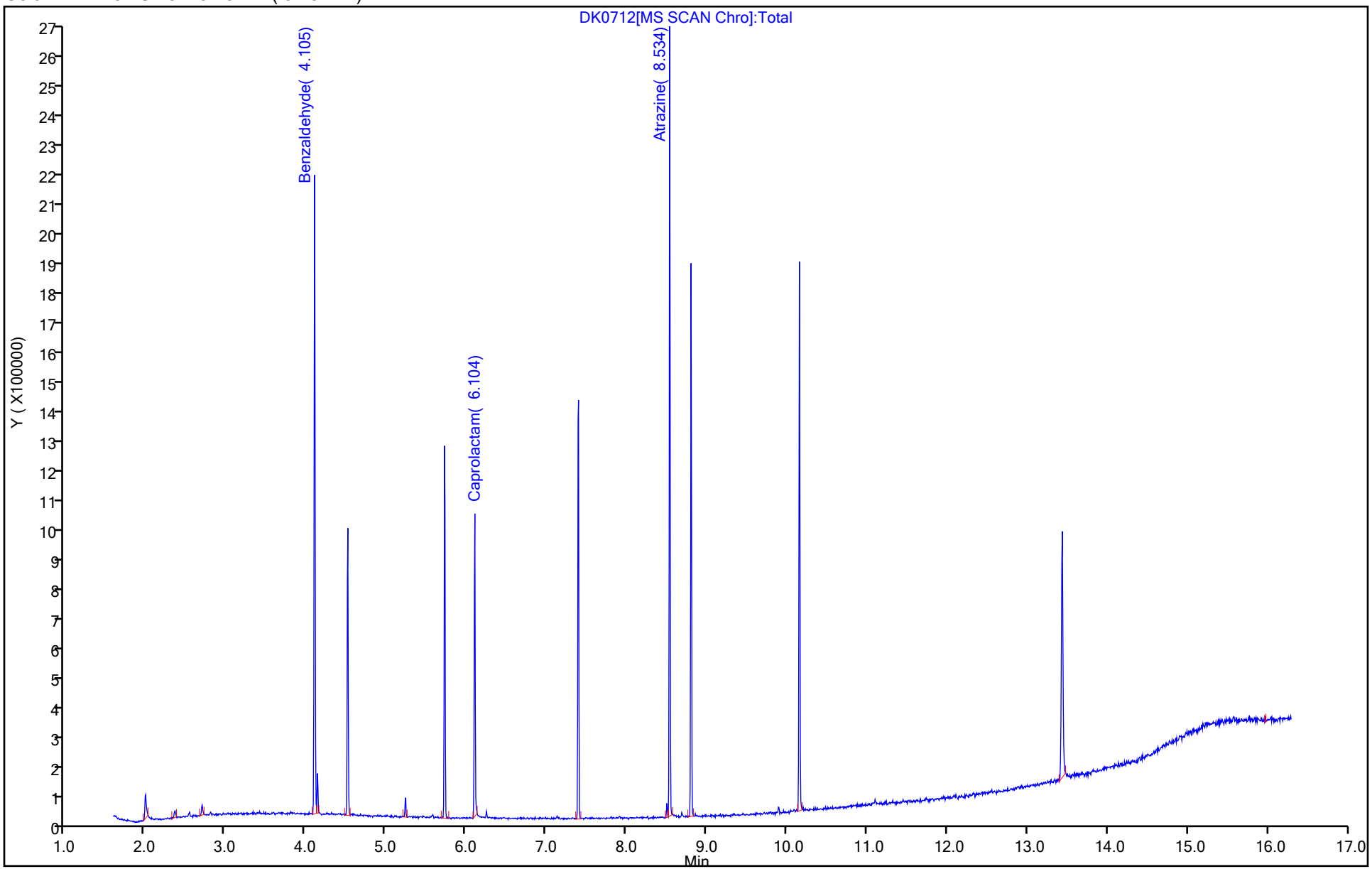
Report Date: 08-Nov-2022 11:26:19 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0712.D

Injection Date:	07-Nov-2022 22:48:30	Instrument ID:	HP19760	Operator ID:	kel10217
Lims ID:	ICV BAS			Worklist Smp#:	13
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	MSSemi_HP19760	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-106360-1

SDG No.:

Lab Sample ID: ICV 410-314883/14 Calibration Date: 11/07/2022 23:09

Instrument ID: HP19760 Calib Start Date: 11/07/2022 18:52

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 11/07/2022 21:25

Lab File ID: DK0713.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Hexachlorocyclopentadiene	Ave	0.5579	0.5811	0.0500	100	100	4.1	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0713.D
Lims ID: ICV HCCPD
Client ID:
Sample Type: ICV
Inject. Date: 07-Nov-2022 23:09:30 ALS Bottle#: 13 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICV HCCPD
Misc. Info.: 410-0070576-014
Operator ID: kel10217 Instrument ID: HP19760
Sublist:

Method: \\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\MSSemi_HP19760.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 08-Nov-2022 08:52:42 Calib Date: 08-Nov-2022 01:34:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0720.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1681

First Level Reviewer: W6XI Date: 08-Nov-2022 08:29:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 22 1,4-Dichlorobenzene-d4	152	4.519	4.513	0.006	97	117125	20.0	20.0	
* 49 Naphthalene-d8	136	5.725	5.725	0.000	99	401710	20.0	20.0	
64 Hexachlorocyclopentadiene	237	6.553	6.559	-0.006	94	724511	100.0	104.1	E
* 89 Acenaphthene-d10	164	7.392	7.392	0.000	95	249366	20.0	20.0	
* 123 Phenanthrene-d10	188	8.803	8.803	0.000	96	507304	20.0	20.0	
* 138 Pyrene-d10 (IS)	212	10.155	10.155	0.000	98	521977	20.0	20.0	
* 163 Perylene-d12	264	13.436	13.431	0.005	99	391539	20.0	20.0	

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount

Reagents:

MSS_FVICV_HCP_00009 Amount Added: 1.00 Units: mL

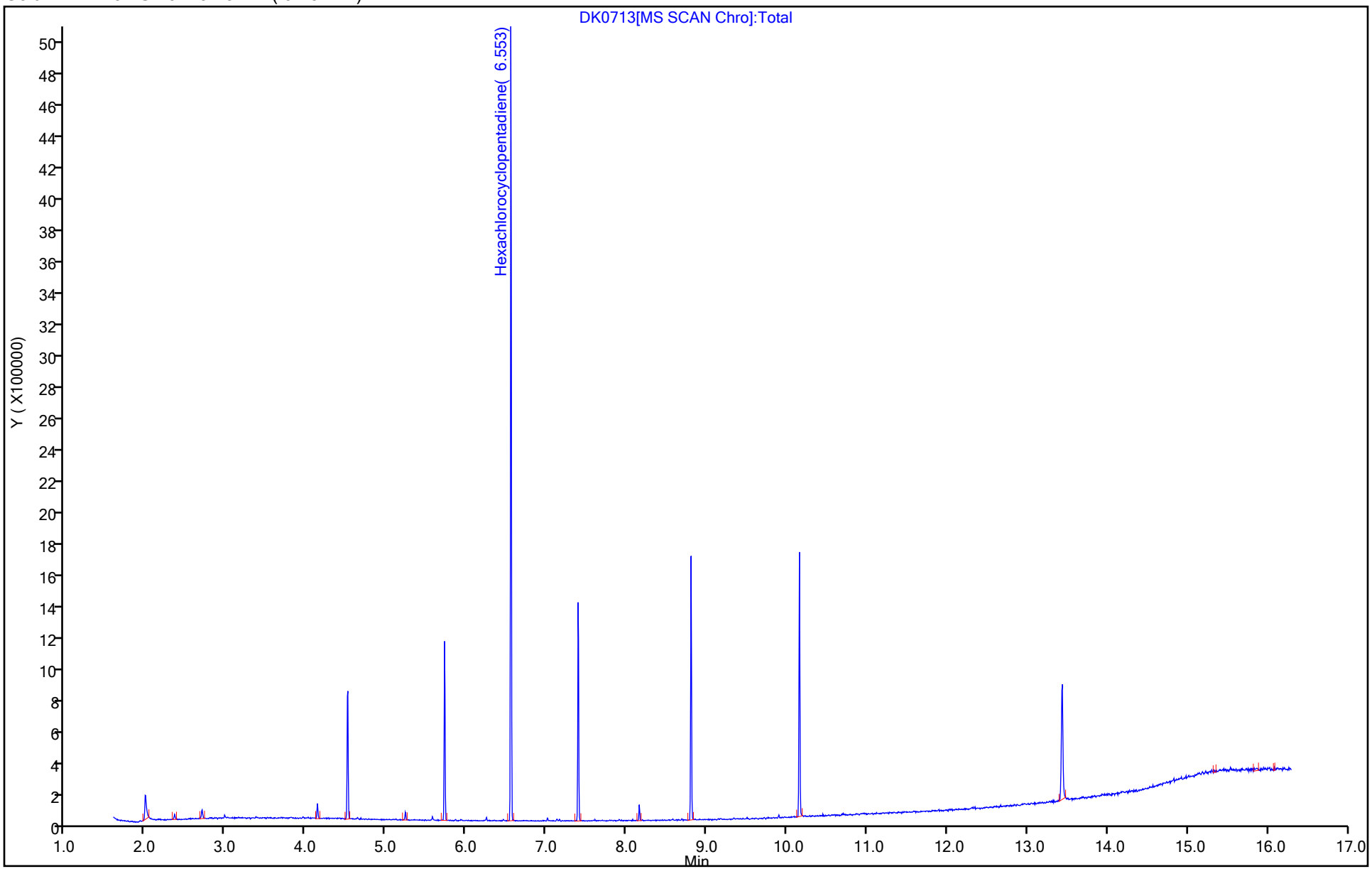
Report Date: 08-Nov-2022 08:54:25 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0713.D

Injection Date:	07-Nov-2022 23:09:30	Instrument ID:	HP19760	Operator ID:	kel10217
Lims ID:	ICV HCCPD			Worklist Smp#:	14
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	MSSemi_HP19760	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-106360-1

SDG No.:

Lab Sample ID: CCVIS 410-320818/2 Calibration Date: 11/24/2022 18:45

Instrument ID: HP19760 Calib Start Date: 11/07/2022 18:52

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 11/07/2022 21:25

Lab File ID: DK2451.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.6472	0.6753		13.0	12.5	4.3	20.0
N-Nitrosodimethylamine	Ave	1.130	1.124		12.0	12.5	-0.5	20.0
Pyridine	Ave	1.728	1.736		25.0	25.0	0.4	20.0
N,N-dimethylformamide	Ave	1.088	1.187		14.0	12.5	9.1	20.0
2-Picoline	Ave	1.714	1.808		13.0	12.5	5.5	20.0
N-Nitrosomethylethylamine	Ave	0.7645	0.8361		14.0	12.5	9.4	20.0
Methyl methanesulfonate	Ave	1.016	1.128		14.0	12.5	11.1	20.0
N-Nitrosodiethylamine	Ave	0.6813	0.7478		14.0	12.5	9.8	20.0
Ethyl methanesulfonate	Ave	0.7461	0.8018		13.0	12.5	7.5	20.0
Benzaldehyde	Ave	1.451	1.365	0.0100	12.0	12.5	-5.9	20.0
Phenol	Ave	1.898	2.046	0.8000	13.0	12.5	7.8	20.0
Aniline	Ave	2.246	2.489		14.0	12.5	10.8	20.0
Bis(2-chloroethyl)ether	Ave	1.527	1.685	0.7000	14.0	12.5	10.4	20.0
2-Chlorophenol	Ave	1.232	1.355	0.8000	14.0	12.5	9.9	20.0
1,3-Dichlorobenzene	Ave	1.472	1.539		13.0	12.5	4.5	20.0
1,4-Dichlorobenzene	Ave	1.495	1.526		13.0	12.5	2.1	20.0
Benzyl alcohol	Ave	0.9097	0.8590		12.0	12.5	-5.6	20.0
1,2-Dichlorobenzene	Ave	1.405	1.485		13.0	12.5	5.7	20.0
2-Methylphenol	Ave	1.242	1.392	0.7000	14.0	12.5	12.0	20.0
2,2'-oxybis[1-chloropropane]	Ave	1.790	1.862	0.0100	13.0	12.5	4.1	20.0
N-Nitrosopyrrolidine	Ave	0.7093	0.7903		14.0	12.5	11.4	20.0
4-Methylphenol (and/or 3-Methylphenol)	Ave	1.344	1.413	0.6000	13.0	12.5	5.1	20.0
Acetophenone	Ave	2.109	2.310	0.0100	14.0	12.5	9.6	20.0
N-Nitrosodi-n-propylamine	Ave	1.252	1.385	0.5000	14.0	12.5	10.6	20.0
N-Nitrosomorpholine	Ave	0.9258	0.9073		12.0	12.5	-2.0	20.0
o-Toluidine	Ave	2.272	2.503		14.0	12.5	10.2	20.0
Hexachloroethane	Ave	0.6406	0.6743	0.3000	13.0	12.5	5.3	20.0
Nitrobenzene	Ave	0.5355	0.5537	0.2000	13.0	12.5	3.4	20.0
N-Nitrosopiperidine	Ave	0.1930	0.2024		13.0	12.5	4.9	20.0
Isophorone	Ave	0.8746	0.9500	0.4000	14.0	12.5	8.6	20.0
2-Nitrophenol	Ave	0.1731	0.1839	0.1000	13.0	12.5	6.2	20.0
2,4-Dimethylphenol	Ave	0.4140	0.4306	0.2000	13.0	12.5	4.0	20.0
o,o',o''-Triethylphosphorothioate	Ave	0.2257	0.2233		12.0	12.5	-1.1	20.0
Bis(2-chloroethoxy)methane	Ave	0.5396	0.5578	0.3000	13.0	12.5	3.4	20.0
2,4-Dichlorophenol	Ave	0.3122	0.3247	0.2000	13.0	12.5	4.0	20.0
1,2,4-Trichlorobenzene	Ave	0.3881	0.3943		13.0	12.5	1.6	20.0
Naphthalene	Ave	1.066	1.063	0.7000	12.0	12.5	-0.3	20.0
a-Terpineol	Ave	0.3436	0.3726		14.0	12.5	8.4	20.0
4-Chloroaniline	Ave	0.4179	0.4580	0.0100	14.0	12.5	9.6	20.0
2,6-Dichlorophenol	Ave	0.3108	0.3313		13.0	12.5	6.6	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-106360-1

SDG No.:

Lab Sample ID: CCVIS 410-320818/2 Calibration Date: 11/24/2022 18:45

Instrument ID: HP19760 Calib Start Date: 11/07/2022 18:52

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 11/07/2022 21:25

Lab File ID: DK2451.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Hexachloropropene	Ave	0.3121	0.3045		12.0	12.5	-2.4	20.0
Hexachlorobutadiene	Ave	0.2672	0.2663	0.0100	12.0	12.5	-0.3	20.0
Quinoline	Ave	0.6533	0.6934		13.0	12.5	6.1	20.0
Caprolactam	Ave	0.0986	0.1050	0.0100	13.0	12.5	6.5	20.0
N-Nitrosodi-n-butylamine	Ave	0.4025	0.4368		14.0	12.5	8.5	20.0
1,4-phenylenediamine	Ave	0.3674	0.3507			12.5	-4.5	20.0
4-Chloro-3-methylphenol	Ave	0.3405	0.3730	0.2000	14.0	12.5	9.6	20.0
Safrole, Total	Ave	0.2901	0.2979		13.0	12.5	2.7	20.0
2-Methylnaphthalene	Ave	0.6630	0.6781	0.4000	13.0	12.5	2.3	20.0
1-Methylnaphthalene	Ave	0.6722	0.6850		13.0	12.5	1.9	20.0
Hexachlorocyclopentadiene	Ave	0.5579	0.5148	0.0500	12.0	12.5	-7.7	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.7638	0.7446	0.0100	12.0	12.5	-2.5	20.0
Isosafrole Peak 1	Ave	0.5211	0.5510		2.10	2.00	5.7	20.0
2,4,6-Trichlorophenol	Ave	0.4161	0.4363	0.2000	13.0	12.5	4.9	20.0
2,4,5-Trichlorophenol	Ave	0.4534	0.4669	0.2000	13.0	12.5	3.0	20.0
Isosafrole Peak 2	Ave	0.6029	0.6061		11.0	10.5	0.5	20.0
1,1'-Biphenyl	Ave	1.531	1.524	0.0100	12.0	12.5	-0.5	20.0
2-Chloronaphthalene	Ave	1.190	1.280	0.8000	13.0	12.5	7.6	20.0
1-Chloronaphthalene	Ave	1.158	1.078		12.0	12.5	-6.9	20.0
Diphenyl ether	Ave	0.8707	0.8597		12.0	12.5	-1.3	20.0
2-Nitroaniline	Ave	0.3024	0.3361	0.0100	14.0	12.5	11.2	20.0
1,4-Naphthoquinone	Ave	0.4198	0.4663		14.0	12.5	11.1	20.0
1,4-Dinitrobenzene	Ave	0.1748	0.1987		14.0	12.5	13.7	20.0
Dimethyl phthalate	Ave	1.311	1.328	0.0100	13.0	12.5	1.3	20.0
1,3-Dinitrobenzene	Ave	0.2001	0.2171		14.0	12.5	8.5	20.0
2,6-Dinitrotoluene	Ave	0.2875	0.3055	0.2000	13.0	12.5	6.2	20.0
Acenaphthylene	Ave	1.640	1.695	0.9000	13.0	12.5	3.4	20.0
3-Nitroaniline	Ave	0.2663	0.3060	0.0100	14.0	12.5	14.9	20.0
Acenaphthene	Ave	1.187	1.213	0.9000	13.0	12.5	2.2	20.0
2,4-Dinitrophenol	Ave	0.1954	0.1940	0.0100	25.0	25.0	-0.7	20.0
4-Nitrophenol	Ave	0.2036	0.2241	0.0100	28.0	25.0	10.1	20.0
Pentachlorobenzene	Ave	0.6459	0.6468		13.0	12.5	0.1	20.0
2,4-Dinitrotoluene	Ave	0.3690	0.4206	0.2000	14.0	12.5	14.0	20.0
Dibenzofuran	Ave	1.725	1.722	0.8000	12.0	12.5	-0.2	20.0
1-Naphthylamine	Ave	1.035	1.133		14.0	12.5	9.5	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.4185	0.4550	0.0100	14.0	12.5	8.7	20.0
2-Naphthylamine	Ave	1.142	1.245		14.0	12.5	9.0	20.0
Diethyl phthalate	Ave	1.267	1.309	0.0100	13.0	12.5	3.3	20.0
Thionazin	Ave	0.2163	0.2276		13.0	12.5	5.3	20.0
Fluorene	Ave	1.370	1.438	0.9000	13.0	12.5	5.0	20.0
4-Chlorophenyl-phenyl ether	Ave	0.7546	0.7764	0.4000	13.0	12.5	2.9	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-106360-1

SDG No.:

Lab Sample ID: CCVIS 410-320818/2 Calibration Date: 11/24/2022 18:45

Instrument ID: HP19760 Calib Start Date: 11/07/2022 18:52

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 11/07/2022 21:25

Lab File ID: DK2451.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
5-Nitro-o-toluidine	Ave	0.3337	0.3785		14.0	12.5	13.4	20.0
4-Nitroaniline	Ave	0.2903	0.3385	0.0100	15.0	12.5	16.6	20.0
4,6-Dinitro-2-methylphenol	Ave	0.1285	0.1313	0.0100	26.0	25.0	2.2	20.0
N-Nitrosodiphenylamine	Ave	0.5493	0.5701	0.0100	11.0	10.6	3.8	20.0
1,2-Diphenylhydrazine	Ave	0.8230	0.8821		13.0	12.5	7.2	20.0
Sulfotepp	Ave	0.1222	0.1286		13.0	12.5	5.2	20.0
1,3,5-Trinitrobenzene	Lin2		0.0799			12.5	1.9	20.0
cis-Diallate	Ave	0.3357	0.3382		9.30	9.25	0.8	20.0
Phorate	Ave	0.4702	0.5106		14.0	12.5	8.6	20.0
Phenacetin	Ave	0.2953	0.3496		15.0	12.5	18.4	20.0
4-Bromophenyl-phenylether	Ave	0.2405	0.2395	0.1000	12.0	12.5	-0.4	20.0
trans-Diallate	Ave	0.3397	0.3407		3.30	3.25	0.3	20.0
Hexachlorobenzene	Ave	0.2730	0.2593	0.1000	12.0	12.5	-5.0	20.0
Dimethoate	Ave	0.2723	0.3008		14.0	12.5	10.5	20.0
Atrazine	Ave	0.2085	0.2146	0.0100	13.0	12.5	2.9	20.0
Pentachlorophenol	Ave	0.1532	0.1625	0.0500	27.0	25.0	6.1	20.0
4-Aminobiphenyl	Ave	0.7535	0.8029		13.0	12.5	6.6	20.0
Pentachloronitrobenzene	Ave	0.1152	0.1247		14.0	12.5	8.2	20.0
Pronamide	Ave	0.2781	0.3106		14.0	12.5	11.7	20.0
Dinoseb	Lin2		0.1965		13.0	12.5	1.7	20.0
Disulfoton	Ave	0.4749	0.5027		13.0	12.5	5.8	20.0
Phenanthrene	Ave	1.063	1.061	0.7000	12.0	12.5	-0.3	20.0
Anthracene	Ave	1.032	1.059	0.7000	13.0	12.5	2.6	20.0
Carbazole	Ave	0.8800	0.9402	0.0100	13.0	12.5	6.8	20.0
Methyl parathion	Lin2		0.2210		13.0	12.5	5.9	20.0
Di-n-butyl phthalate	Ave	0.9437	1.053	0.0100	14.0	12.5	11.6	20.0
Parathion	Ave	0.1166	0.1356		15.0	12.5	16.3	20.0
4-Nitroquinoline-1-oxide	Lin2		0.0680		10.0	12.5	-16.7	20.0
Octachlorostyrene	Ave	0.1041	0.1045		13.0	12.5	0.4	20.0
Isodrin	Ave	0.1385	0.1333		12.0	12.5	-3.8	20.0
Fluoranthene	Ave	1.148	1.206	0.6000	13.0	12.5	5.1	20.0
Benzidine	Ave	0.6548	0.7051		40.0	37.5	7.7	20.0
Pyrene	Ave	1.214	1.224	0.6000	13.0	12.5	0.8	20.0
p-Dimethylamino azobenzene	Lin1		0.2129		12.0	12.5	-0.7	20.0
Chlorobenzilate	Ave	0.2762	0.3152		14.0	12.5	14.1	20.0
3,3'-Dimethylbenzidine	Ave	0.6384	0.6437		13.0	12.5	0.8	20.0
Butylbenzylphthalate	Ave	0.3957	0.4455	0.0100	14.0	12.5	12.6	20.0
2-Acetylaminofluorene	Ave	0.3274	0.3589		14.0	12.5	9.6	20.0
3,3'-Dichlorobenzidine	Ave	0.4084	0.4345	0.0100	13.0	12.5	6.4	20.0
4,4'-Methylene bis(2-chloroaniline)	Ave	0.2194	0.2293		13.0	12.5	4.5	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-106360-1

SDG No.:

Lab Sample ID: CCVIS 410-320818/2 Calibration Date: 11/24/2022 18:45

Instrument ID: HP19760 Calib Start Date: 11/07/2022 18:52

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 11/07/2022 21:25

Lab File ID: DK2451.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzo[a]anthracene	Ave	1.094	1.173	0.8000	13.0	12.5	7.2	20.0
Chrysene	Ave	1.132	1.155	0.7000	13.0	12.5	2.0	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.4455	0.5976	0.0100	17.0	12.5	34.1*	20.0
6-Methylchrysene	Ave	0.7415	0.7847		13.0	12.5	5.8	20.0
Di-n-octyl phthalate	Ave	0.7819	1.148	0.0100	18.0	12.5	46.8*	20.0
7,12-Dimethylbenz(a)anthrace ne	Ave	0.5303	0.6183		15.0	12.5	16.6	20.0
Benzo[b]fluoranthene	Ave	1.316	1.416	0.7000	13.0	12.5	7.6	20.0
Benzo[k]fluoranthene	Ave	1.333	1.438	0.7000	13.0	12.5	7.9	20.0
Benzo[a]pyrene	Ave	1.041	1.147	0.7000	14.0	12.5	10.1	20.0
3-Methylcholanthrene	Ave	0.5644	0.6049		13.0	12.5	7.2	20.0
Dibenz[a,h]acridine	Ave	0.8097	0.8200		13.0	12.5	1.3	20.0
Dibenz[a,j]acridine	Ave	0.9270	0.9669		13.0	12.5	4.3	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.9176	0.8883	0.5000	12.0	12.5	-3.2	20.0
Dibenz(a,h)anthracene	Ave	1.083	1.049	0.4000	12.0	12.5	-3.1	20.0
Benzo[g,h,i]perylene	Ave	1.127	1.052	0.5000	12.0	12.5	-6.7	20.0
2-Fluorophenol (Surr)	Ave	1.369	1.451		26.0	25.0	5.9	20.0
Phenol-d5 (Surr)	Ave	1.868	2.017		27.0	25.0	8.0	20.0
Nitrobenzene-d5 (Surr)	Ave	0.5172	0.5467		26.0	25.0	5.7	20.0
2-Fluorobiphenyl (Surr)	Ave	1.467	1.452		25.0	25.0	-1.0	20.0
2,4,6-Tribromophenol (Surr)	Ave	0.2401	0.2554		27.0	25.0	6.4	20.0
p-Terphenyl-d14 (Surr)	Ave	0.9162	0.9511		26.0	25.0	3.8	20.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP19760\20221124-71888.b\DK2451.D
Lims ID: CCVIS L5
Client ID:
Sample Type: CCVIS
Inject. Date: 24-Nov-2022 18:45:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVIS L5
Operator ID: mem41592 Instrument ID: HP19760
Sublist: chrom-MSSemi_HP19760*sub26

Method: \\chromfs\Lancaster\ChromData\HP19760\20221124-71888.b\MSSemi_HP19760.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 24-Nov-2022 20:46:27 Calib Date: 14-Nov-2022 21:19:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP19760\20221114-71142.b\DK1465.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: P7EB Date: 24-Nov-2022 19:21:14

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
2 1,4-Dioxane	88	1.799	1.799	0.000	93	224658	12.5	13.0	
3 N-Nitrosodimethylamine	74	2.026	2.026	0.000	95	374088	12.5	12.4	
4 Pyridine	79	2.067	2.067	0.000	96	1154731	25.0	25.1	
6 Dimethylformamide	73	2.370	2.370	0.000	94	395048	12.5	13.6	
7 2-Picoline	93	2.656	2.656	0.000	89	601486	12.5	13.2	
8 N-Nitrosomethylethylamine	88	2.737	2.737	0.000	94	278161	12.5	13.7	
9 Methyl methanesulfonate	80	2.999	2.999	0.000	86	375254	12.5	13.9	
$ 10 2-Fluorophenol	112	3.151	3.151	0.000	94	965138	25.0	26.5	
11 N-Nitrosodiethylamine	102	3.378	3.378	0.000	96	248781	12.5	13.7	
12 Ethyl methanesulfonate	109	3.664	3.664	0.000	96	266728	12.5	13.4	
15 Benzaldehyde	77	3.990	3.990	0.000	93	454070	12.5	11.8	
$ 16 Phenol-d5	99	4.031	4.031	0.000	95	1341685	25.0	27.0	
17 Phenol	94	4.049	4.049	0.000	93	680725	12.5	13.5	
18 Aniline	93	4.089	4.089	0.000	94	828166	12.5	13.9	
19 Bis(2-chloroethyl)ether	93	4.148	4.148	0.000	93	560642	12.5	13.8	
20 2-Chlorophenol	128	4.200	4.200	0.000	91	450713	12.5	13.7	
21 1,3-Dichlorobenzene	146	4.352	4.352	0.000	93	511928	12.5	13.1	
* 22 1,4-Dichlorobenzene-d4	152	4.410	4.410	0.000	95	133070	5.00	5.00	
23 1,4-Dichlorobenzene	146	4.422	4.422	0.000	87	507634	12.5	12.8	
25 Benzyl alcohol	108	4.532	4.532	0.000	88	285761	12.5	11.8	
26 1,2-Dichlorobenzene	146	4.567	4.567	0.000	92	493905	12.5	13.2	
28 2-Methylphenol	108	4.632	4.632	0.000	95	462943	12.5	14.0	
29 2,2'-oxybis[1-chloropropane]	45	4.666	4.666	0.000	91	619466	12.5	13.0	
31 N-Nitrosopyrrolidine	100	4.766	4.766	0.000	90	262917	12.5	13.9	
32 4-Methylphenol	108	4.783	4.783	0.000	95	470095	12.5	13.1	
33 N-Nitrosodi-n-propylamine	70	4.789	4.789	0.000	73	460710	12.5	13.8	
34 Acetophenone	105	4.789	4.789	0.000	89	768622	12.5	13.7	
35 N-Nitrosomorpholine	56	4.806	4.806	0.000	86	301829	12.5	12.3	
36 2-Toluidine	106	4.824	4.824	0.000	95	832784	12.5	13.8	
38 Hexachloroethane	117	4.894	4.894	0.000	90	224312	12.5	13.2	
$ 39 Nitrobenzene-d5	82	4.935	4.935	0.000	88	1314063	25.0	26.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
40 Nitrobenzene	77	4.952	4.952	0.000	85	665460	12.5	12.9	
42 N-Nitrosopiperidine	114	5.098	5.098	0.000	82	243205	12.5	13.1	
43 Isophorone	82	5.179	5.179	0.000	96	1141695	12.5	13.6	
44 2-Nitrophenol	139	5.255	5.255	0.000	87	221017	12.5	13.3	
45 2,4-Dimethylphenol	107	5.290	5.290	0.000	98	517529	12.5	13.0	
46 o,o',o''-Triethylphosphorothioat	198	5.366	5.366	0.000	84	268375	12.5	12.4	
47 Bis(2-chloroethoxy)methane	93	5.389	5.389	0.000	98	670406	12.5	12.9	
48 2,4-Dichlorophenol	162	5.482	5.482	0.000	96	390245	12.5	13.0	
49 1,2,4-Trichlorobenzene	180	5.564	5.564	0.000	92	473833	12.5	12.7	
* 50 Naphthalene-d8	136	5.622	5.622	0.000	100	480708	5.00	5.00	
51 Naphthalene	128	5.640	5.640	0.000	98	1278022	12.5	12.5	
52 Alpha-Terpineol	59	5.652	5.652	0.000	92	447757	12.5	13.6	
53 4-Chloroaniline	127	5.692	5.692	0.000	92	550424	12.5	13.7	
54 2,6-Dichlorophenol	162	5.698	5.698	0.000	93	398105	12.5	13.3	
55 Hexachloropropene	213	5.727	5.727	0.000	87	365940	12.5	12.2	
56 Hexachlorobutadiene	225	5.756	5.756	0.000	94	320004	12.5	12.5	
60 Quinoline	129	5.960	5.960	0.000	94	833349	12.5	13.3	
61 Caprolactam	113	6.013	6.013	0.000	74	126162	12.5	13.3	
62 N-Nitrosodi-n-butylamine	84	6.013	6.013	0.000	88	524926	12.5	13.6	
63 p-Phenylene diamine	108	6.030	6.030	0.000	93	421454	12.5	11.9	
64 4-Chloro-3-methylphenol	107	6.153	6.153	0.000	92	448290	12.5	13.7	
65 Safrole, Total	162	6.223	6.223	0.000	85	357986	12.5	12.8	
66 2-Methylnaphthalene	142	6.304	6.304	0.000	92	814881	12.5	12.8	
67 1-Methylnaphthalene	142	6.398	6.398	0.000	92	823261	12.5	12.7	
68 Hexachlorocyclopentadiene	237	6.450	6.450	0.000	95	387608	12.5	11.5	
69 1,2,4,5-Tetrachlorobenzene	216	6.456	6.456	0.000	97	560679	12.5	12.2	
70 Isosafrole Peak 1	162	6.497	6.497	0.000	87	66380	2.00	2.11	
71 2,4,6-Trichlorophenol	196	6.567	6.567	0.000	84	328485	12.5	13.1	
72 2,4,5-Trichlorophenol	196	6.596	6.596	0.000	92	351548	12.5	12.9	
$ 73 2-Fluorobiphenyl (Surr)	172	6.654	6.654	0.000	100	2187087	25.0	24.8	
74 Isosafrole Peak 2	162	6.712	6.712	0.000	88	383333	10.5	10.6	
75 1,1'-Biphenyl	154	6.747	6.747	0.000	94	1147650	12.5	12.4	
76 2-Chloronaphthalene	162	6.765	6.765	0.000	94	964136	12.5	13.5	M
77 1-Chloronaphthalene	162	6.782	6.782	0.000	98	811758	12.5	11.6	Ma
78 Phenyl ether	170	6.846	6.846	0.000	87	647320	12.5	12.3	
79 2-Nitroaniline	138	6.858	6.858	0.000	74	253090	12.5	13.9	
81 1,4-Naphthoquinone	158	6.934	6.934	0.000	79	351138	12.5	13.9	
84 1,4-Dinitrobenzene	168	6.998	6.998	0.000	85	149604	12.5	14.2	
85 Dimethyl phthalate	163	7.039	7.039	0.000	97	999814	12.5	12.7	
86 1,3-Dinitrobenzene	168	7.062	7.062	0.000	84	163441	12.5	13.6	
87 2,6-Dinitrotoluene	165	7.091	7.091	0.000	89	229996	12.5	13.3	
88 Acenaphthylene	152	7.155	7.155	0.000	99	1276238	12.5	12.9	
89 3-Nitroaniline	138	7.249	7.249	0.000	85	230387	12.5	14.4	
* 90 Acenaphthene-d10	164	7.289	7.289	0.000	96	301180	5.00	5.00	
91 Acenaphthene	153	7.319	7.319	0.000	96	913303	12.5	12.8	
92 2,4-Dinitrophenol	184	7.348	7.348	0.000	85	292216	25.0	24.8	
93 4-Nitrophenol	109	7.406	7.406	0.000	82	337440	25.0	27.5	
94 Pentachlorobenzene	250	7.441	7.441	0.000	98	486975	12.5	12.5	
95 2,4-Dinitrotoluene	165	7.470	7.470	0.000	87	316718	12.5	14.2	
96 Dibenzofuran	168	7.482	7.482	0.000	97	1296429	12.5	12.5	
97 1-Naphthylamine	143	7.557	7.557	0.000	98	852977	12.5	13.7	
98 2,3,4,6-Tetrachlorophenol	232	7.598	7.598	0.000	71	342618	12.5	13.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
99 2-Naphthylamine	143	7.633	7.633	0.000	95	937210	12.5	13.6	
100 Diethyl phthalate	149	7.709	7.709	0.000	97	985771	12.5	12.9	
101 Thionazin	107	7.785	7.785	0.000	78	171385	12.5	13.2	
102 Fluorene	166	7.808	7.808	0.000	94	1082401	12.5	13.1	
103 4-Chlorophenyl phenyl ether	204	7.814	7.814	0.000	90	584580	12.5	12.9	
104 N-Nitro-o-toluidine	152	7.820	7.820	0.000	90	285011	12.5	14.2	
105 4-Nitroaniline	138	7.826	7.826	0.000	80	254883	12.5	14.6	
106 4,6-Dinitro-2-methylphenol	198	7.855	7.855	0.000	85	406903	25.0	25.5	
107 N-Nitrosodiphenylamine	169	7.925	7.925	0.000	63	750839	10.6	11.0	
108 1,2-Diphenylhydrazine	77	7.960	7.960	0.000	41	1366812	12.5	13.4	
$ 109 2,4,6-Tribromophenol	330	8.035	8.035	0.000	94	384602	25.0	26.6	
110 Sulfotepp	97	8.082	8.082	0.000	78	199252	12.5	13.2	
112 1,3,5-Trinitrobenzene	213	8.169	8.169	0.000	81	123786	12.5	12.7	
113 cis-Diallate	86	8.199	8.199	0.000	0	387809	9.25	9.32	
114 Phorate	75	8.210	8.210	0.000	95	791211	12.5	13.6	
115 Phenacetin	108	8.216	8.216	0.000	89	541625	12.5	14.8	
116 4-Bromophenyl phenyl ether	248	8.274	8.274	0.000	65	371098	12.5	12.4	
117 trans-Diallate	86	8.286	8.286	0.000	0	137239	3.25	3.26	
118 Hexachlorobenzene	284	8.321	8.321	0.000	95	401848	12.5	11.9	
119 Dimethoate	87	8.368	8.368	0.000	96	466102	12.5	13.8	
120 Atrazine	200	8.438	8.438	0.000	93	332491	12.5	12.9	
121 Pentachlorophenol	266	8.513	8.513	0.000	93	503463	25.0	26.5	
123 Pentachloronitrobenzene	237	8.519	8.519	0.000	84	193168	12.5	13.5	
122 4-Aminobiphenyl	169	8.519	8.519	0.000	93	1244081	12.5	13.3	
124 Pronamide	173	8.583	8.583	0.000	91	481292	12.5	14.0	
125 Dinoseb	211	8.688	8.688	0.000	95	304541	12.5	12.7	
* 126 Phenanthrene-d10	188	8.694	8.694	0.000	97	619790	5.00	5.00	
127 Disulfoton	88	8.706	8.706	0.000	95	778848	12.5	13.2	
128 Phenanthrene	178	8.717	8.717	0.000	96	1643246	12.5	12.5	
129 Anthracene	178	8.764	8.764	0.000	98	1641168	12.5	12.8	
130 Carbazole	167	8.921	8.921	0.000	96	1456743	12.5	13.4	
131 Methyl parathion	109	9.055	9.055	0.000	93	342418	12.5	13.2	
133 Di-n-butyl phthalate	149	9.265	9.265	0.000	100	1631220	12.5	13.9	
134 Ethyl Parathion	109	9.428	9.428	0.000	85	210104	12.5	14.5	
135 4-Nitroquinoline-1-oxide	190	9.452	9.452	0.000	80	105394	12.5	10.4	
S 136 Diallate	86				0		12.5	12.6	
140 Octachlorostyrene	308	9.667	9.667	0.000	90	161927	12.5	12.6	
141 Isodrin	193	9.702	9.702	0.000	93	206498	12.5	12.0	
143 Fluoranthene	202	9.848	9.848	0.000	97	1868453	12.5	13.1	
147 Benzidine	184	9.982	9.982	0.000	99	3452172	37.5	40.4	
* 149 Pyrene-d10 (IS)	212	10.040	10.040	0.000	98	652780	5.00	5.00	
150 Pyrene	202	10.058	10.058	0.000	98	1997118	12.5	12.6	
$ 152 p-Terphenyl-d14	244	10.221	10.221	0.000	99	3104228	25.0	26.0	
154 p-Dimethylamino azobenzene	225	10.361	10.361	0.000	91	347402	12.5	12.4	
155 Chlorobenzilate	139	10.414	10.414	0.000	95	514410	12.5	14.3	
156 3,3'-Dimethylbenzidine	212	10.711	10.711	0.000	99	1050489	12.5	12.6	
157 Butyl benzyl phthalate	149	10.734	10.734	0.000	96	727007	12.5	14.1	
158 2-Acetylaminofluorene	181	10.979	10.979	0.000	93	585692	12.5	13.7	
159 3,3'-Dichlorobenzidine	252	11.317	11.317	0.000	75	709056	12.5	13.3	
160 4,4'-Methylene bis(2-chloroani	231	11.323	11.323	0.000	95	374178	12.5	13.1	
161 Benzo[a]anthracene	228	11.329	11.329	0.000	98	1913602	12.5	13.4	
162 Chrysene	228	11.375	11.375	0.000	96	1884818	12.5	12.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
163 Bis(2-ethylhexyl) phthalate	149	11.410	11.410	0.000	98	975257	12.5	16.8	E
164 6-Methylchrysene	242	11.935	11.935	0.000	98	1280545	12.5	13.2	
165 Di-n-octyl phthalate	149	12.267	12.267	0.000	99	1444842	12.5	18.4	E
166 7,12-Dimethylbenz(a)anthracene	256	12.716	12.716	0.000	73	778040	12.5	14.6	
167 Benzo[b]fluoranthene	252	12.722	12.722	0.000	96	1782391	12.5	13.5	
168 Benzo[k]fluoranthene	252	12.757	12.757	0.000	98	1809755	12.5	13.5	
169 Benzo[a]pyrene	252	13.176	13.176	0.000	75	1442917	12.5	13.8	
* 170 Perylene-d12	264	13.252	13.252	0.000	99	503357	5.00	5.00	
171 3-Methylcholanthrene	268	13.689	13.689	0.000	90	761165	12.5	13.4	
172 Dibenz[a,h]acridine	279	14.482	14.482	0.000	90	1031876	12.5	12.7	
173 Dibenz[a,j]acridine	279	14.552	14.552	0.000	96	1216696	12.5	13.0	
174 Indeno[1,2,3-cd]pyrene	276	14.773	14.773	0.000	98	1117876	12.5	12.1	
175 Dibenz(a,h)anthracene	278	14.814	14.814	0.000	90	1319434	12.5	12.1	
176 Benzo[g,h,i]perylene	276	15.141	15.141	0.000	97	1323216	12.5	11.7	
S 182 Isosafrole	162				0		12.5	12.7	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSS_RV8270_6_00037 Amount Added: 1.00 Units: mL

Report Date: 24-Nov-2022 20:46:28 Chrom Revision: 2.3 21-Nov-2022 18:34:02

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP19760\20221124-71888.b\DK2451.D

Injection Date: 24-Nov-2022 18:45:30 Instrument ID: HP19760 Operator ID: mem41592

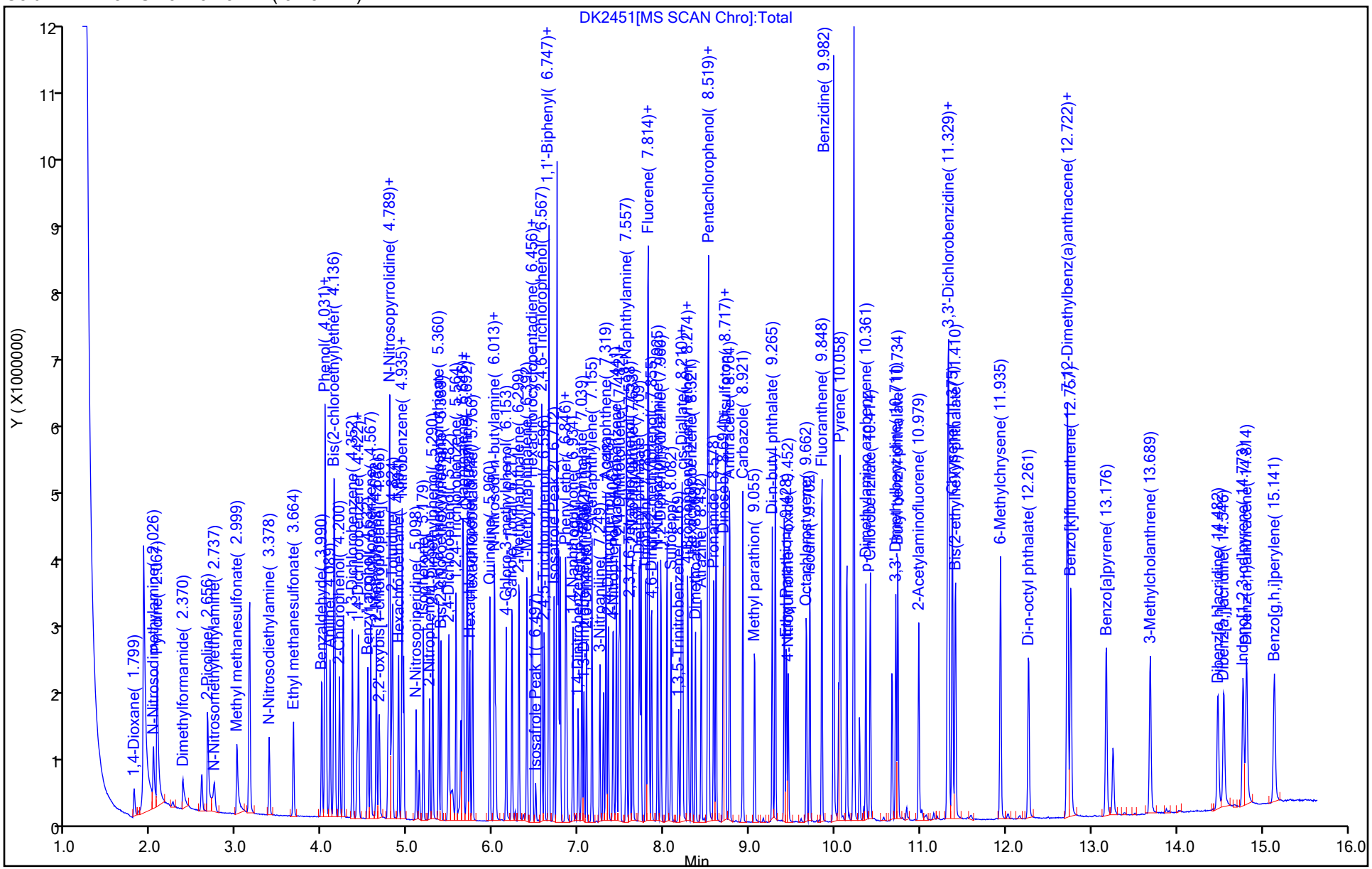
Lims ID: CCVIS L5 Worklist Smp#: 2

Client ID:

Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 2

Method: MSSemi_HP19760 Limit Group: MSSV - 8270D_E LVI

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

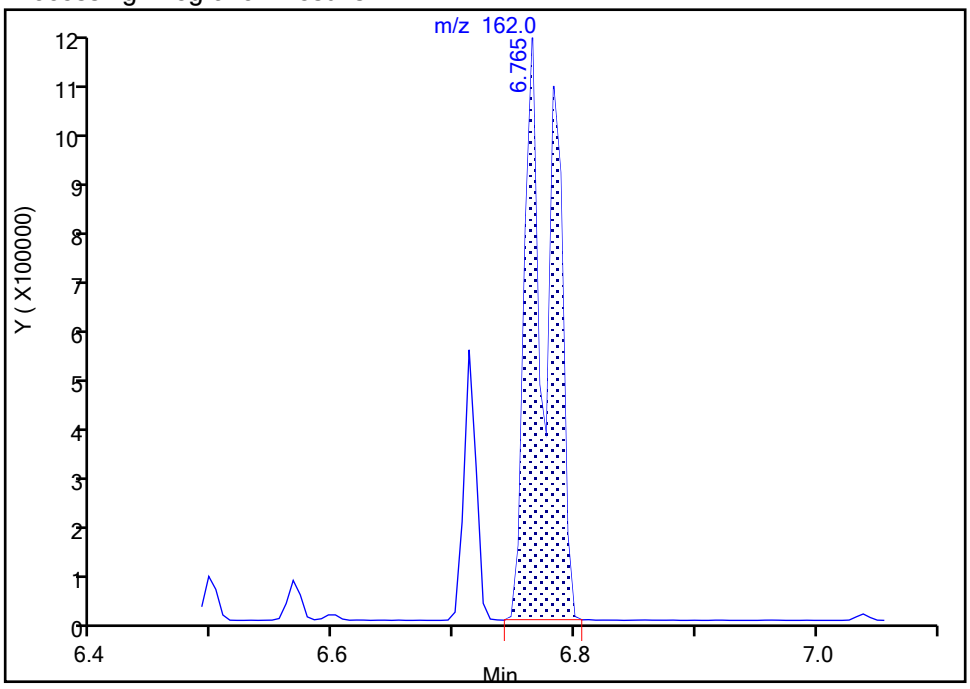
Data File:	\\chromfs\Lancaster\ChromData\HP19760\20221124-71888.b\DK2451.D				
Injection Date:	24-Nov-2022 18:45:30	Instrument ID:	HP19760		
Lims ID:	CCVIS L5				
Client ID:					
Operator ID:	mem41592	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP19760	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

76 2-Chloronaphthalene, CAS: 91-58-7

Signal: 1

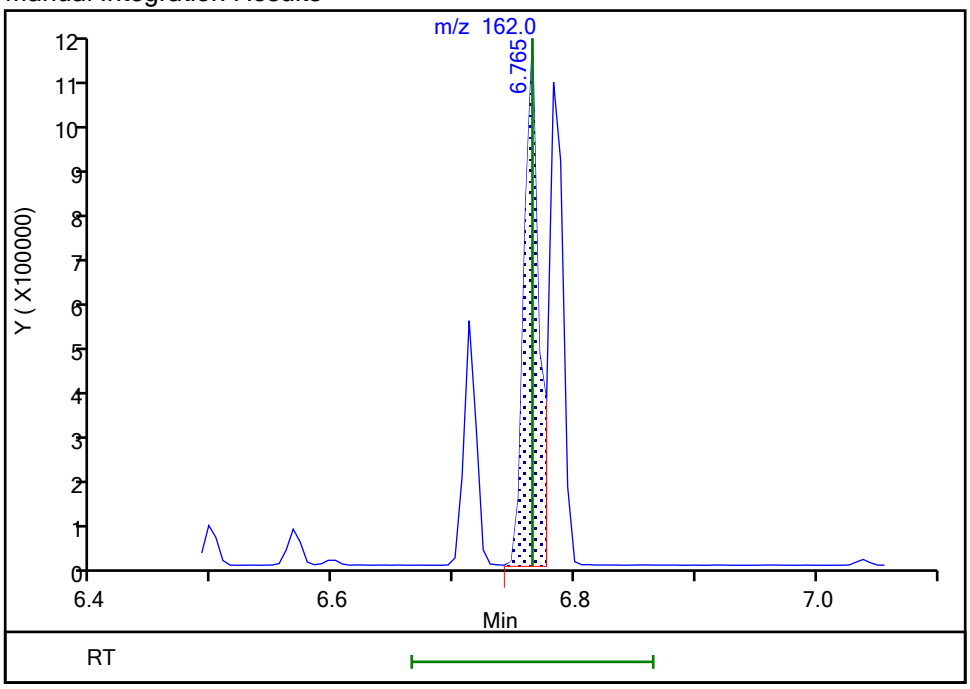
Processing Integration Results

RT: 6.76
Area: 1775896
Amount: 24.784122
Amount Units: ug/ml



Manual Integration Results

RT: 6.76
Area: 964136
Amount: 13.455329
Amount Units: ug/ml



Reviewer: P7EB, 24-Nov-2022 19:20:46

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

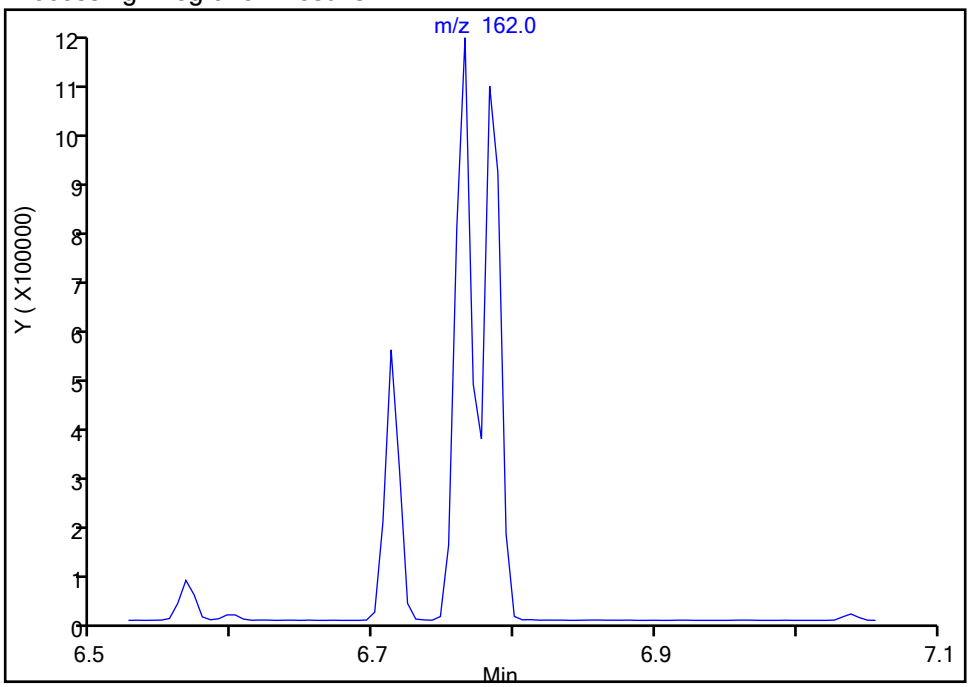
Data File:	\\chromfs\Lancaster\ChromData\HP19760\20221124-71888.b\DK2451.D				
Injection Date:	24-Nov-2022 18:45:30	Instrument ID:	HP19760		
Lims ID:	CCVIS L5				
Client ID:					
Operator ID:	mem41592	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP19760	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

77 1-Chloronaphthalene, CAS: 90-13-1

Signal: 1

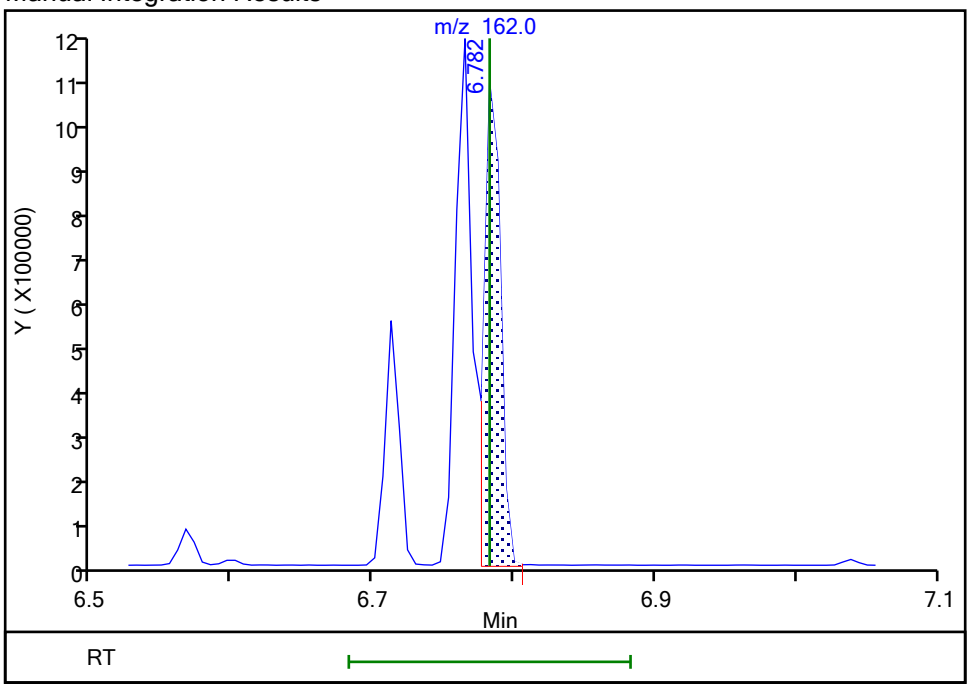
Not Detected
Expected RT: 6.78

Processing Integration Results



RT: 6.78
Area: 811758
Amount: 11.634493
Amount Units: ug/ml

Manual Integration Results



Reviewer: P7EB, 24-Nov-2022 19:20:53
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\HP19760\20221107-70576.b\DK0700b.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 07-Nov-2022 18:35:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 410-0070576-001
Operator ID: kel10217 Instrument ID: HP19760

Method: \\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\MSSemi_HP19760.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 08-Nov-2022 08:55:18 Calib Date: 08-Nov-2022 01:34:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0720.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1681

First Level Reviewer: W6XI Date: 08-Nov-2022 08:55:18

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
9 Pentachlorophenol_T	266	4.696	4.696	0.000	92	142267	NR	NR	
15 Benzidine_T	184	5.967	5.967	0.000	99	704617	NR	NR	
215 DFTPP									
217 4,4'-DDD	235	6.521	6.521	0.000	1	164		NR	
216 4,4'-DDE	246		6.549					ND	
218 4,4'-DDT	235	6.665	6.665	0.000	99	372558	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

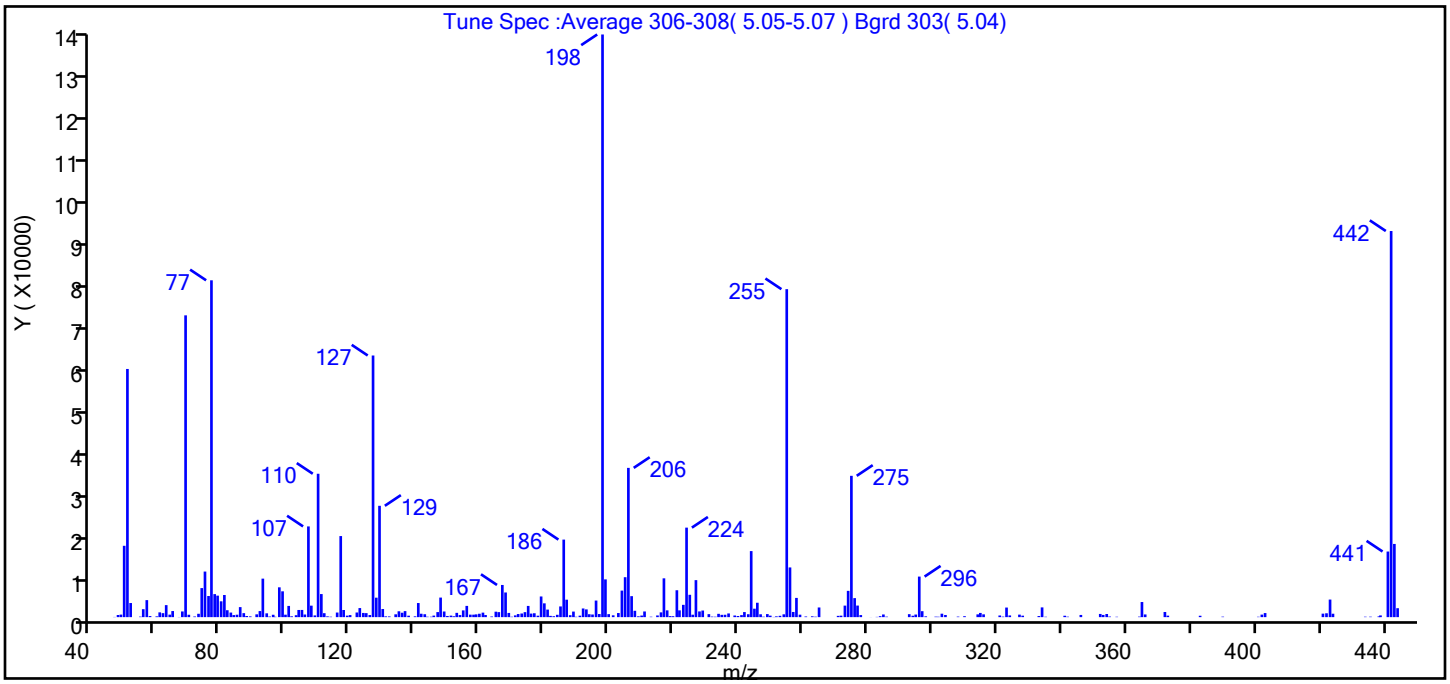
MSS_RVDFTPP_00011 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0700b.D
Injection Date: 07-Nov-2022 18:35:30 Instrument ID: HP19760
Lims ID: DFTPP
Client ID:
Operator ID: kel10217 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP19760 Limit Group: MSSV - 8270D_E LVI
Tune Method: DFTPP Method 8270D, BP 198

215 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (150.9)
51	10-80% of the base peak	42.6
68	<2% of mass 69	1.0 (1.9)
69	Present	51.8
70	<2% of mass 69	0.4 (0.8)
127	10-80% of the base peak	44.9
197	<2% of mass 198	0.5
199	5-9% of mass 198	6.5
275	10-60% of the base peak	24.3
365	>1% of mass 198	2.6
441	present but <24% of mass 442	11.3 (17.0)
442	base peak, or >50% of 198	66.3
443	15-24% of mass 442	12.6 (19.0)

Data File: \\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0700b.D\MSSemi_HP19760.rslt\spectra.
Injection Date: 07-Nov-2022 18:35:30
Spectrum: Tune Spec :Average 306-308(5.05-5.07) Bgrd 303(5.04)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 268

m/z	Y	m/z	Y	m/z	Y	m/z	Y
47.00	43	122.00	1043	192.00	1947	271.00	289
48.00	480	123.00	2039	193.00	1740	272.00	332
49.00	573	124.00	943	194.00	656	273.00	2590
50.00	16028	125.00	902	195.00	592	274.00	5905
51.00	55760	126.00	472	196.00	3727	275.00	31752
52.00	3170	127.00	58784	197.00	697	276.00	4275
55.00	119	128.00	4374	198.00	130912	277.00	2602
56.00	1789	129.00	25016	199.00	8486	278.00	465
57.00	3824	130.00	1824	200.00	673	281.00	14
58.00	245	131.00	174	201.00	411	283.00	55
60.00	173	132.00	164	203.00	924	284.00	216
61.00	1072	134.00	635	204.00	5965	285.00	600
62.00	896	135.00	1319	205.00	8972	286.00	110
63.00	2700	136.00	990	206.00	33536	293.00	669
64.00	562	137.00	1353	207.00	4716	294.00	313
65.00	1370	138.00	326	208.00	1426	295.00	584
67.00	35	140.00	180	209.00	186	296.00	9112
68.00	1281	141.00	3171	210.00	357	297.00	1339
69.00	67808	142.00	766	211.00	1275	298.00	181
70.00	536	143.00	656	213.00	98	301.00	109
72.00	147	144.00	96	215.00	378	302.00	91
73.00	757	145.00	94	216.00	1073	303.00	775
74.00	6528	146.00	348	217.00	8720	304.00	486
75.00	10242	147.00	1133	218.00	1525	308.00	121
76.00	4749	148.00	4396	219.00	233	310.00	209
77.00	75680	149.00	1270	220.00	208	314.00	624
78.00	5175	150.00	263	221.00	6044	315.00	945
79.00	4830	151.00	343	222.00	1527	316.00	628
80.00	3558	152.00	198	223.00	2765	321.00	371
81.00	4975	153.00	964	224.00	20112	322.00	115
82.00	1553	154.00	467	225.00	5021	323.00	2155
83.00	1028	155.00	1519	226.00	546	324.00	384
84.00	467	156.00	2526	227.00	8315	327.00	564

Report Date: 08-Nov-2022 08:55:18 Chrom Revision: 2.3 25-Oct-2022 11:16:06
Data File: \\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0700b.D\MSSemi_HP19760.rslt\spectra.
Injection Date: 07-Nov-2022 18:35:30
Spectrum: Tune Spec :Average 306-308(5.05-5.07) Bgrd 303(5.04)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 268

m/z	Y	m/z	Y	m/z	Y	m/z	Y
85.00	546	157.00	561	228.00	1284	328.00	329
86.00	2255	158.00	556	229.00	1485	333.00	246
87.00	898	159.00	624	231.00	674	334.00	2190
88.00	257	160.00	762	232.00	121	335.00	87
89.00	169	161.00	1014	233.00	96	341.00	316
91.00	630	162.00	472	234.00	746	342.00	106
92.00	1364	164.00	145	235.00	517	346.00	494
93.00	8651	165.00	1225	236.00	537	352.00	718
94.00	855	166.00	1126	237.00	831	353.00	495
95.00	142	167.00	7230	239.00	367	354.00	705
96.00	536	168.00	5542	240.00	258	355.00	136
97.00	85	169.00	947	241.00	458	357.00	85
98.00	6701	170.00	92	242.00	1140	364.00	119
99.00	5803	171.00	397	243.00	653	365.00	3395
100.00	551	172.00	697	244.00	14841	366.00	608
101.00	2519	173.00	819	245.00	1898	372.00	1157
102.00	187	174.00	1123	246.00	3234	373.00	335
103.00	434	175.00	2520	247.00	645	383.00	312
104.00	1610	176.00	798	248.00	105	390.00	109
105.00	1619	177.00	874	249.00	688	401.00	87
106.00	591	178.00	326	250.00	335	402.00	569
107.00	20384	179.00	4644	251.00	43	403.00	916
108.00	2580	180.00	3100	252.00	179	421.00	786
109.00	390	181.00	1698	253.00	298	422.00	869
110.00	32216	182.00	289	254.00	635	423.00	3950
111.00	5186	183.00	205	255.00	73688	424.00	769
112.00	888	184.00	527	256.00	11169	434.00	97
113.00	174	185.00	2406	257.00	1161	436.00	104
114.00	94	186.00	17424	258.00	4321	438.00	169
116.00	1035	187.00	3923	259.00	554	439.00	386
117.00	18216	188.00	437	261.00	147	441.00	14740
118.00	1606	189.00	1251	263.00	185	442.00	86752
119.00	338	190.00	84	264.00	103	443.00	16448
120.00	462	191.00	331	265.00	2172	444.00	2011

m/z	Y	m/z	Y	m/z	Y	m/z	Y
85.00	546	157.00	561	228.00	1284	328.00	329
86.00	2255	158.00	556	229.00	1485	333.00	246
87.00	898	159.00	624	231.00	674	334.00	2190
88.00	257	160.00	762	232.00	121	335.00	87
89.00	169	161.00	1014	233.00	96	341.00	316
91.00	630	162.00	472	234.00	746	342.00	106
92.00	1364	164.00	145	235.00	517	346.00	494
93.00	8651	165.00	1225	236.00	537	352.00	718
94.00	855	166.00	1126	237.00	831	353.00	495
95.00	142	167.00	7230	239.00	367	354.00	705
96.00	536	168.00	5542	240.00	258	355.00	136
97.00	85	169.00	947	241.00	458	357.00	85
98.00	6701	170.00	92	242.00	1140	364.00	119
99.00	5803	171.00	397	243.00	653	365.00	3395
100.00	551	172.00	697	244.00	14841	366.00	608
101.00	2519	173.00	819	245.00	1898	372.00	1157
102.00	187	174.00	1123	246.00	3234	373.00	335
103.00	434	175.00	2520	247.00	645	383.00	312
104.00	1610	176.00	798	248.00	105	390.00	109
105.00	1619	177.00	874	249.00	688	401.00	87
106.00	591	178.00	326	250.00	335	402.00	569
107.00	20384	179.00	4644	251.00	43	403.00	916
108.00	2580	180.00	3100	252.00	179	421.00	786
109.00	390	181.00	1698	253.00	298	422.00	869
110.00	32216	182.00	289	254.00	635	423.00	3950
111.00	5186	183.00	205	255.00	73688	424.00	769
112.00	888	184.00	527	256.00	11169	434.00	97
113.00	174	185.00	2406	257.00	1161	436.00	104
114.00	94	186.00	17424	258.00	4321	438.00	169
116.00	1035	187.00	3923	259.00	554	439.00	386
117.00	18216	188.00	437	261.00	147	441.00	14740
118.00	1606	189.00	1251	263.00	185	442.00	86752
119.00	338	190.00	84	264.00	103	443.00	16448
120.00	462	191.00	331	265.00	2172	444.00	2011

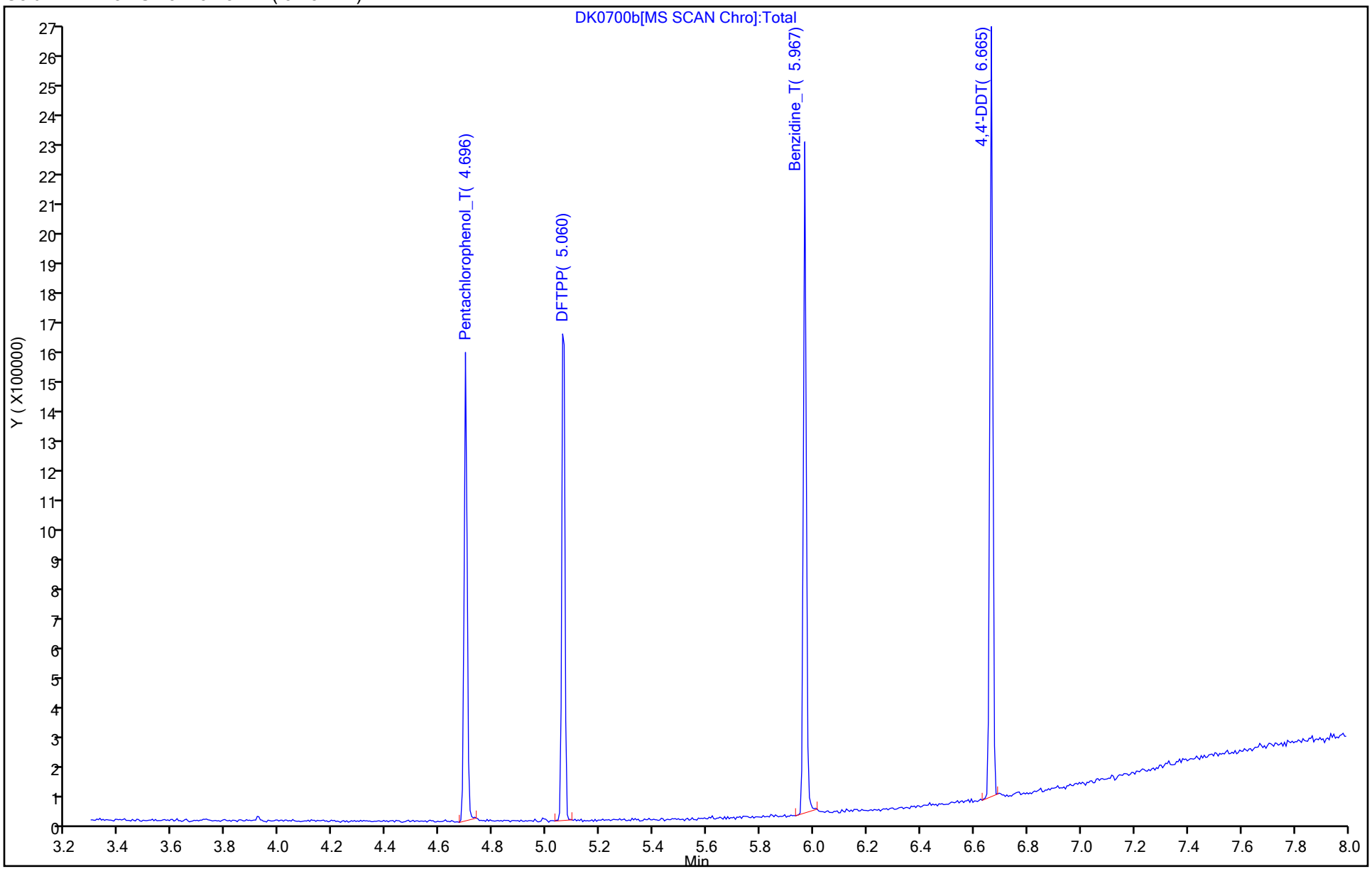
Report Date: 08-Nov-2022 08:55:18 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0700b.D

Injection Date:	07-Nov-2022 18:35:30	Instrument ID:	HP19760	Operator ID:	kel10217
Lims ID:	DFTPP			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSSemi_HP19760	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Breakdown Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0700b.D
Injection Date: 07-Nov-2022 18:35:30 Instrument ID: HP19760
Lims ID: DFTPP
Client ID:
Operator ID: kel10217 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP19760 Limit Group: MSSV - 8270D_E LVI

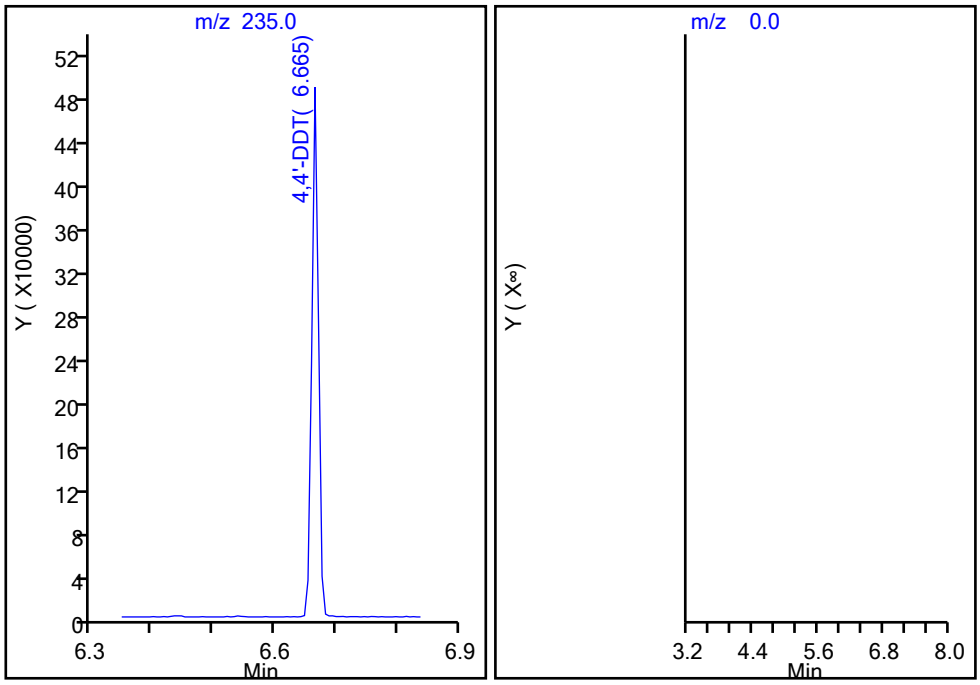
218 4,4'-DDT, Detector: MS SCAN

SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

218 4,4'-DDT, Area = 372558
217 4,4'-DDD, Area = 164
216 4,4'-DDE, Area = 0

%Breakdown: 0.04%, <= 20.00%
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Environment Testing, LLC

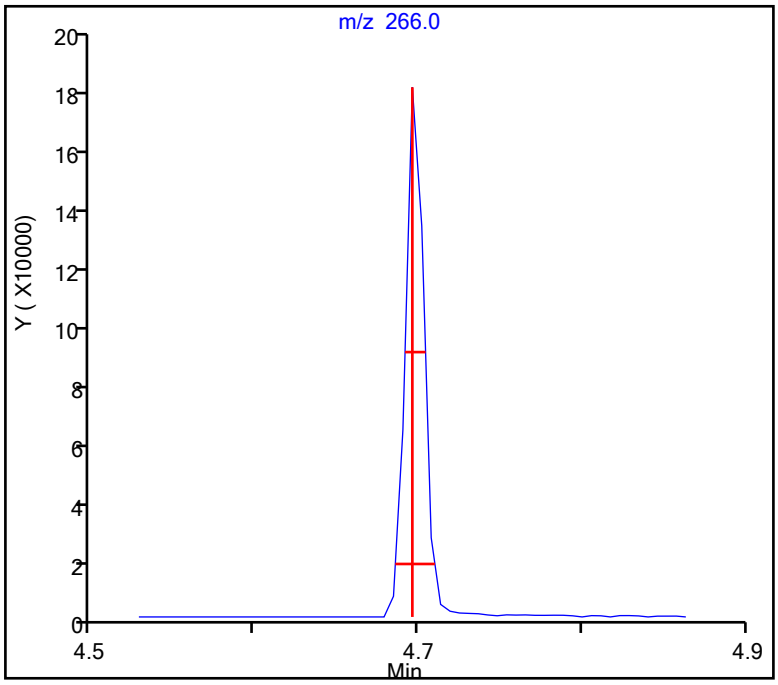
Data File: \\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0700b.D
Injection Date: 07-Nov-2022 18:35:30 Instrument ID: HP19760
Lims ID: DFTPP
Client ID:
Operator ID: kel10217 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP19760 Limit Group: MSSV - 8270D_E LVI

9 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.014 (min.)
Front Width = 0.010 (min.)

Tailing Factor = 1.40, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Environment Testing, LLC

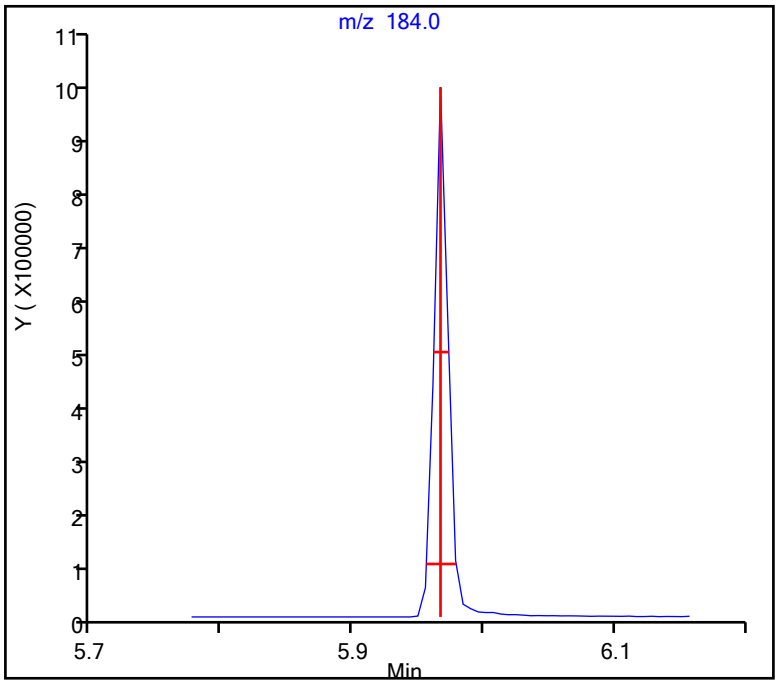
Data File: \\chromfs\Lancaster\ChromData\HP19760\20221107-70576.b\DK0700b.D
Injection Date: 07-Nov-2022 18:35:30 Instrument ID: HP19760
Lims ID: DFTPP
Client ID:
Operator ID: kel10217 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP19760 Limit Group: MSSV - 8270D_E LVI

15 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.012 (min.)
Front Width = 0.011 (min.)

Tailing Factor = 1.09, Max. Tailing <= 2.00
Passed



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP19760\20221124-71888.b\DK2450a.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 24-Nov-2022 18:25:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Operator ID: mem41592 Instrument ID: HP19760

Method: \\chromfs\Lancaster\ChromData\HP19760\20221124-71888.b\MSSemi_HP19760.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 24-Nov-2022 20:46:25 Calib Date: 14-Nov-2022 21:19:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP19760\20221114-71142.b\DK1465.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: P7EB Date: 24-Nov-2022 18:40:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
27 Pentachlorophenol_T	266	4.586	4.586	0.000	92	154787	NR	NR	
57 Benzidine_T	184	5.857	5.857	0.000	99	738805	NR	NR	
243 DFTPP									
244 4,4'-DDE	246		6.186					ND	U
245 4,4'-DDD	235		6.296					ND	U
246 4,4'-DDT	235	6.550	6.550	0.000	98	356076	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
Review Flags
U - Marked Undetected

Reagents:

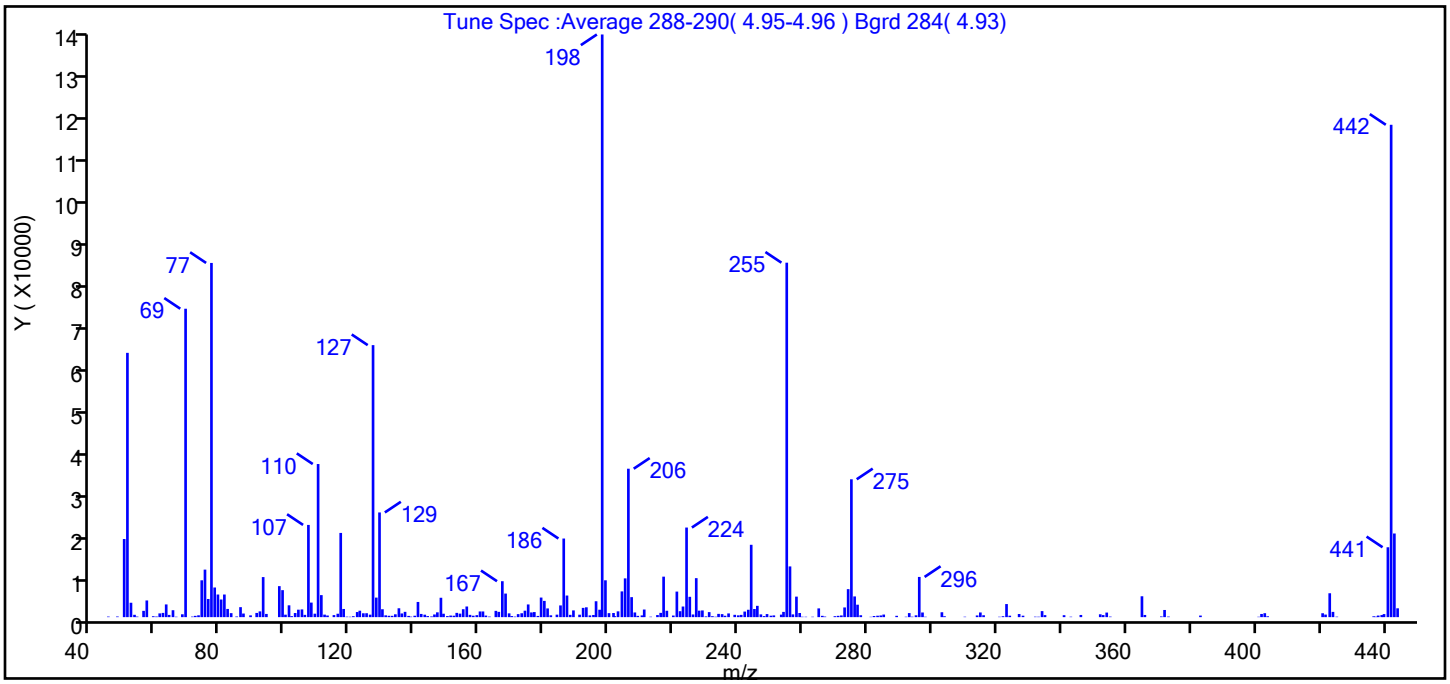
MSS_RVDFTPP_00011 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP19760\20221124-71888.b\DK2450a.D
Injection Date: 24-Nov-2022 18:25:30 Instrument ID: HP19760
Lims ID: DFTPP
Client ID:
Operator ID: mem41592 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP19760 Limit Group: MSSV - 8270D_E LVI
Tune Method: DFTPP Method 8270D, BP 198

243 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (118.3)
51	10-80% of the base peak	45.4
68	<2% of mass 69	0.5 (0.9)
69	Present	52.9
70	<2% of mass 69	0.0 (0.0)
127	10-80% of the base peak	46.7
197	<2% of mass 198	1.3
199	5-9% of mass 198	6.3
275	10-60% of the base peak	23.7
365	>1% of mass 198	3.6
441	present but <24% of mass 442	12.0 (14.2)
442	base peak, or >50% of 198	84.5
443	15-24% of mass 442	14.4 (17.0)

Data File: \\chromfs\Lancaster\ChromData\HP19760\20221124-71888.b\DK2450a.D\MSSemi_HP19760.rslt\spectra.
Injection Date: 24-Nov-2022 18:25:30
Spectrum: Tune Spec :Average 288-290(4.95-4.96) Bgrd 284(4.93)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 269

m/z	Y	m/z	Y	m/z	Y	m/z	Y
45.00	127	126.00	561	197.00	1673	274.00	6320
48.00	145	127.00	61400	198.00	131520	275.00	31120
50.00	17632	128.00	4413	199.00	8317	276.00	4675
51.00	59656	129.00	23632	200.00	901	277.00	2808
52.00	3250	130.00	1784	201.00	936	278.00	428
53.00	527	131.00	405	202.00	219	281.00	77
54.00	128	132.00	308	203.00	1309	282.00	256
56.00	1420	133.00	298	204.00	5812	283.00	322
57.00	3766	134.00	643	205.00	8750	284.00	381
59.00	206	135.00	2003	206.00	33504	285.00	582
60.00	136	136.00	834	207.00	4515	289.00	301
61.00	845	137.00	1198	208.00	1056	292.00	95
62.00	957	138.00	280	209.00	291	293.00	917
63.00	2870	139.00	114	210.00	390	294.00	102
64.00	505	140.00	315	211.00	1719	295.00	412
65.00	1564	141.00	3428	213.00	99	296.00	9076
66.00	92	142.00	723	215.00	470	297.00	1049
68.00	646	143.00	554	216.00	966	298.00	91
69.00	69616	144.00	241	217.00	9140	303.00	1106
70.00	2	145.00	157	218.00	1440	304.00	205
71.00	127	146.00	604	220.00	362	310.00	95
72.00	291	147.00	1083	221.00	5769	314.00	383
73.00	411	148.00	4377	222.00	1341	315.00	1056
74.00	8317	149.00	772	223.00	2399	316.00	429
75.00	10727	150.00	239	224.00	20224	321.00	89
76.00	4098	151.00	359	225.00	4588	322.00	205
77.00	79952	152.00	323	226.00	603	323.00	2953
78.00	6691	153.00	963	227.00	8801	324.00	329
79.00	5108	154.00	794	228.00	1463	327.00	707
80.00	3980	155.00	1790	229.00	1514	328.00	325
81.00	5109	156.00	2403	230.00	164	332.00	107
82.00	1852	157.00	514	231.00	1133	333.00	97
83.00	903	158.00	324	232.00	217	334.00	1363

Report Date: 24-Nov-2022 20:46:25 Chrom Revision: 2.3 21-Nov-2022 18:34:02
Data File: \\chromfs\Lancaster\ChromData\HP19760\20221124-71888.b\DK2450a.D\MSSemi_HP19760.rslt\spectra.
Injection Date: 24-Nov-2022 18:25:30
Spectrum: Tune Spec :Average 288-290(4.95-4.96) Bgrd 284(4.93)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 269

m/z	Y	m/z	Y	m/z	Y	m/z	Y
85.00	142	159.00	449	233.00	96	335.00	454
86.00	2255	160.00	1282	234.00	739	341.00	439
87.00	814	161.00	1284	235.00	680	343.00	99
89.00	401	162.00	353	236.00	314	346.00	492
91.00	948	163.00	129	237.00	839	352.00	644
92.00	1301	165.00	1417	239.00	523	353.00	463
93.00	9042	166.00	1192	240.00	403	354.00	1031
94.00	723	167.00	8110	241.00	508	355.00	121
98.00	6999	168.00	5320	242.00	1258	365.00	4712
99.00	6092	169.00	854	243.00	1664	366.00	494
100.00	556	170.00	242	244.00	16332	371.00	154
101.00	2669	171.00	118	245.00	1836	372.00	1618
102.00	230	172.00	680	246.00	2552	373.00	128
103.00	930	173.00	880	247.00	623	383.00	356
104.00	1684	174.00	1456	248.00	236	401.00	86
105.00	1744	175.00	2866	249.00	693	402.00	716
106.00	514	176.00	1062	250.00	326	403.00	889
107.00	20816	177.00	1144	251.00	391	404.00	192
108.00	3284	178.00	275	253.00	566	421.00	881
109.00	777	179.00	4421	254.00	1185	422.00	580
110.00	34560	180.00	3669	255.00	80008	423.00	5391
111.00	4971	181.00	1969	256.00	11450	424.00	1187
112.00	567	182.00	414	257.00	624	425.00	106
113.00	366	184.00	560	258.00	4630	437.00	189
115.00	461	185.00	2646	259.00	936	437.00	108
116.00	770	186.00	17744	260.00	93	438.00	358
117.00	19008	187.00	4877	261.00	89	439.00	470
118.00	1845	188.00	518	263.00	92	440.00	693
119.00	108	189.00	1522	265.00	1976	441.00	15775
120.00	87	191.00	549	266.00	296	442.00	111136
121.00	212	192.00	2092	267.00	132	443.00	18880
122.00	1149	193.00	2220	270.00	215	444.00	1996
123.00	1450	194.00	395	271.00	299		
124.00	874	195.00	489	272.00	383		

Report Date: 24-Nov-2022 20:46:25 Chrom Revision: 2.3 21-Nov-2022 18:34:02
Data File: \\chromfs\Lancaster\ChromData\HP19760\20221124-71888.b\DK2450a.D\MSSemi_HP19760.rslt\spectra.
Injection Date: 24-Nov-2022 18:25:30
Spectrum: Tune Spec :Average 288-290(4.95-4.96) Bgrd 284(4.93)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 269

m/z	Y	m/z	Y	m/z	Y	m/z	Y
125.00	884	196.00	3589	273.00	2187		

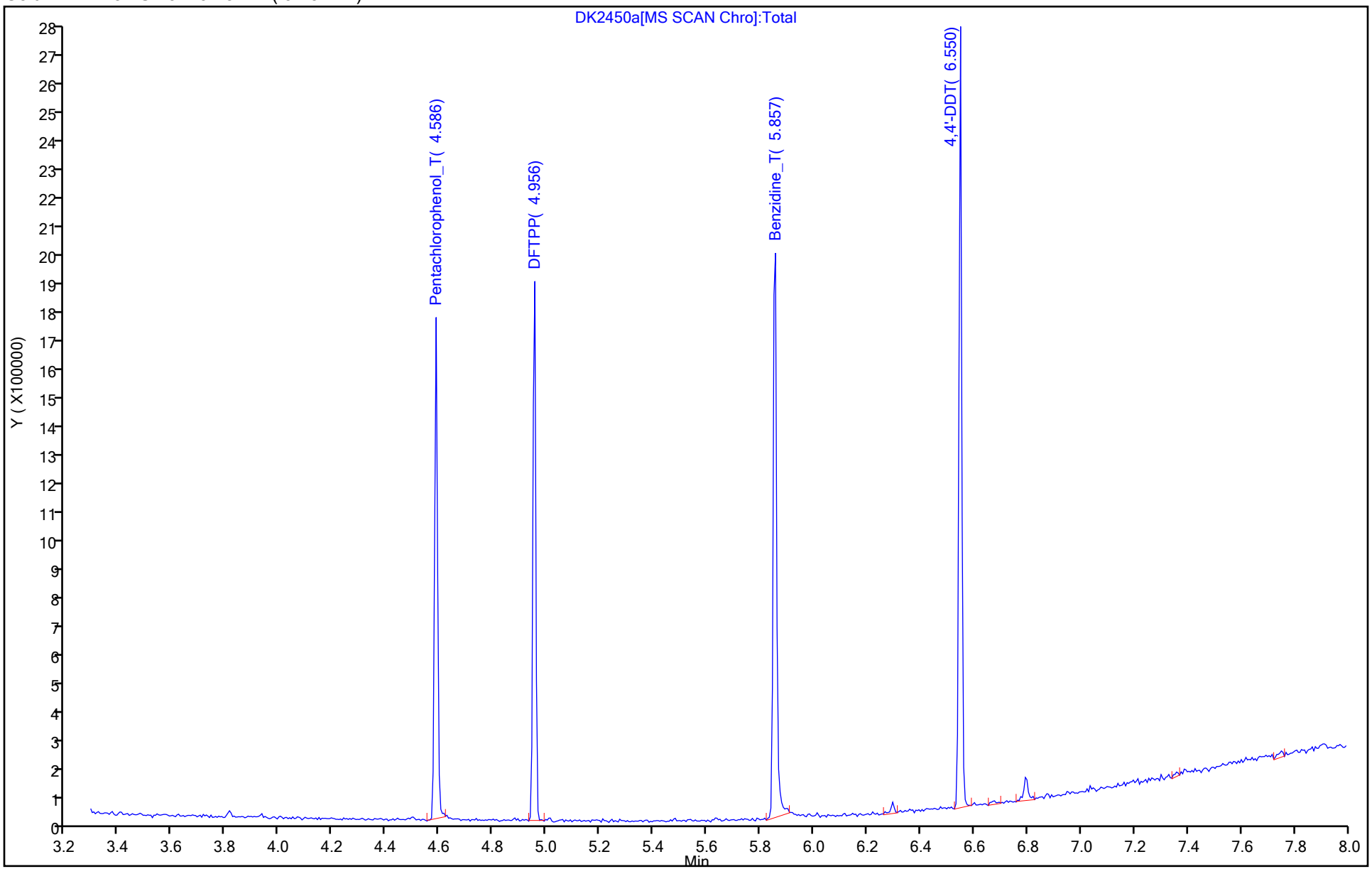
Report Date: 24-Nov-2022 20:46:25 Chrom Revision: 2.3 21-Nov-2022 18:34:02

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP19760\20221124-71888.b\DK2450a.D

Injection Date:	24-Nov-2022 18:25:30	Instrument ID:	HP19760	Operator ID:	mem41592
Lims ID:	DFTPP			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSSemi_HP19760	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Breakdown Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP19760\20221124-71888.b\DK2450a.D
Injection Date: 24-Nov-2022 18:25:30 Instrument ID: HP19760
Lims ID: DFTPP
Client ID:
Operator ID: mem41592 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP19760 Limit Group: MSSV - 8270D_E LVI

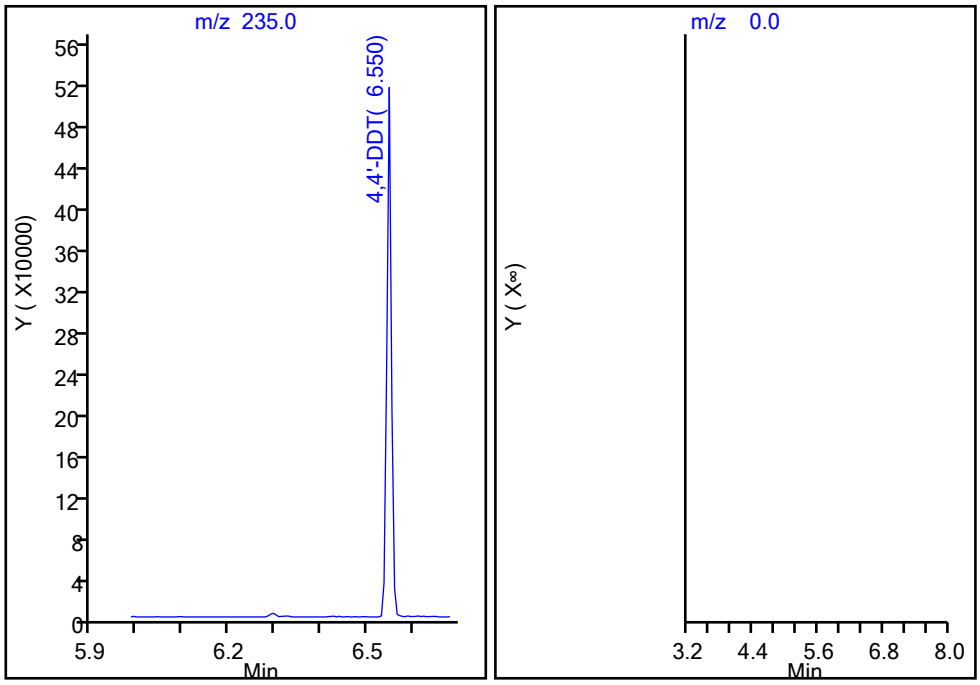
246 4,4'-DDT, Detector: MS SCAN

SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

246 4,4'-DDT, Area = 356076
245 4,4'-DDD, Area = 0
244 4,4'-DDE, Area = 0

%Breakdown: 0.00%, <= 20.00%
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Environment Testing, LLC

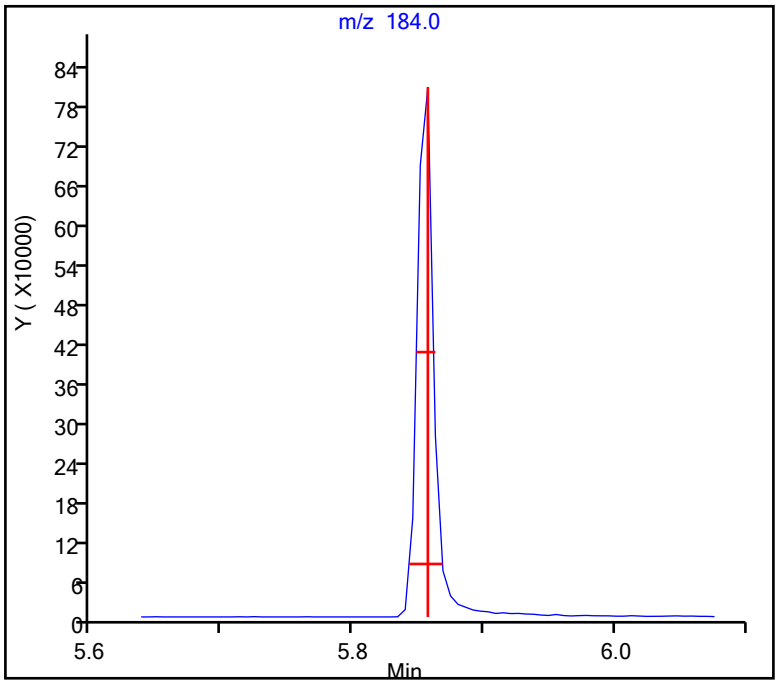
Data File: \\chromfs\Lancaster\ChromData\HP19760\20221124-71888.b\DK2450a.D
Injection Date: 24-Nov-2022 18:25:30 Instrument ID: HP19760
Lims ID: DFTPP
Client ID:
Operator ID: mem41592 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP19760 Limit Group: MSSV - 8270D_E LVI

57 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.011 (min.)
Front Width = 0.014 (min.)

Tailing Factor = 0.79, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Environment Testing, LLC

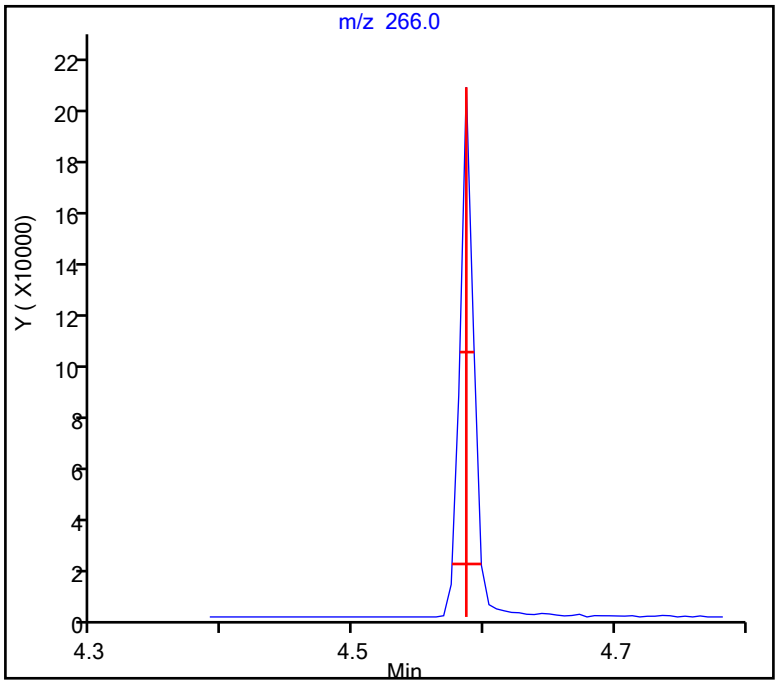
Data File: \\chromfs\Lancaster\ChromData\HP19760\20221124-71888.b\DK2450a.D
Injection Date: 24-Nov-2022 18:25:30 Instrument ID: HP19760
Lims ID: DFTPP
Client ID:
Operator ID: mem41592 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP19760 Limit Group: MSSV - 8270D_E LVI

27 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.012 (min.)
Front Width = 0.011 (min.)

Tailing Factor = 1.09, Max. Tailing <= 2.00
Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-106360-1

SDG No.:

Client Sample ID:
Lab Sample ID: MB 410-320749/1-A

Matrix: Water
Lab File ID: DK2452.D

Analysis Method: 8270D
Date Collected:

Extract. Method: 3510C
Date Extracted: 11/23/2022 17:30

Sample wt/vol: 250(mL)
Date Analyzed: 11/24/2022 19:33

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 320818
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
105-67-9	2,4-Dimethylphenol	ND		10	3
51-28-5	2,4-Dinitrophenol	ND		30	10
95-57-8	2-Chlorophenol	ND		2	0.5
86-74-8	Carbazole	ND		2	0.5
108-95-2	Phenol	ND		2	0.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	90		10-150
321-60-8	2-Fluorobiphenyl (Surr)	76		44-120
367-12-4	2-Fluorophenol (Surr)	53		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	82		25-125
4165-62-2	Phenol-d5 (Surr)	35		10-120
1718-51-0	p-Terphenyl-d14 (Surr)	99		37-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP19760\20221124-71888.b\DK2452.D
Lims ID: MB 410-320749/1-A
Client ID:
Sample Type: MB
Inject. Date: 24-Nov-2022 19:33:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: MB 410-320749/1-A
Misc. Info.: 410-0071888-003
Operator ID: mem41592 Instrument ID: HP19760

Method: \\chromfs\Lancaster\ChromData\HP19760\20221124-71888.b\MSSemi_HP19760.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 27-Nov-2022 17:13:33 Calib Date: 14-Nov-2022 21:19:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP19760\20221114-71142.b\DK1465.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1672

First Level Reviewer: P7EB Date: 27-Nov-2022 16:53:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 10 2-Fluorophenol	112	3.145	3.151	-0.006	93	879415	50.0	26.3	
15 Benzaldehyde	77		3.990					ND	7
$ 16 Phenol-d5	99	4.031	4.031	0.000	93	801621	50.0	17.6	
17 Phenol	94		4.049					ND	7
19 Bis(2-chloroethyl)ether	93		4.148					ND	7
20 2-Chlorophenol	128		4.200					ND	7
* 22 1,4-Dichlorobenzene-d4	152	4.410	4.410	0.000	96	121934	5.00	5.00	
28 2-Methylphenol	108		4.632					ND	
29 2,2'-oxybis[1-chloropropane]	45		4.666					ND	7
32 4-Methylphenol	108		4.783					ND	
33 N-Nitrosodi-n-propylamine	70		4.789					ND	7
34 Acetophenone	105		4.789					ND	7
38 Hexachloroethane	117		4.894					ND	
$ 39 Nitrobenzene-d5	82	4.935	4.940	0.000	88	907712	25.0	20.6	
40 Nitrobenzene	77		4.952					ND	U
43 Isophorone	82		5.179					ND	7
44 2-Nitrophenol	139		5.255					ND	
45 2,4-Dimethylphenol	107		5.290					ND	
47 Bis(2-chloroethoxy)methane	93		5.389					ND	
48 2,4-Dichlorophenol	162		5.482					ND	
* 50 Naphthalene-d8	136	5.622	5.622	0.000	99	426773	5.00	5.00	
51 Naphthalene	128		5.640					ND	7
53 4-Chloroaniline	127		5.692					ND	7
56 Hexachlorobutadiene	225		5.756					ND	
61 Caprolactam	113		6.013					ND	7
64 4-Chloro-3-methylphenol	107		6.153					ND	
66 2-Methylnaphthalene	142		6.304					ND	7
68 Hexachlorocyclopentadiene	237		6.450					ND	7
69 1,2,4,5-Tetrachlorobenzene	216		6.456					ND	
71 2,4,6-Trichlorophenol	196		6.567					ND	7
72 2,4,5-Trichlorophenol	196		6.596					ND	7

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 73 2-Fluorobiphenyl (Surr)	172	6.654	6.654	0.000	100	1453491	25.0	19.0	
75 1,1'-Biphenyl	154		6.747					ND	7
76 2-Chloronaphthalene	162		6.765					ND	
79 2-Nitroaniline	138		6.858					ND	
85 Dimethyl phthalate	163		7.039					ND	7
87 2,6-Dinitrotoluene	165		7.091					ND	
88 Acenaphthylene	152		7.155					ND	7
89 3-Nitroaniline	138		7.249					ND	
* 90 Acenaphthene-d10	164	7.289	7.289	0.000	94	260715	5.00	5.00	
91 Acenaphthene	153		7.319					ND	
92 2,4-Dinitrophenol	184		7.348					ND	
93 4-Nitrophenol	109		7.406					ND	7
95 2,4-Dinitrotoluene	165		7.470					ND	7
96 Dibenzofuran	168		7.482					ND	7
98 2,3,4,6-Tetrachlorophenol	232		7.598					ND	
100 Diethyl phthalate	149		7.709					ND	7
102 Fluorene	166		7.808					ND	7
103 4-Chlorophenyl phenyl ether	204		7.814					ND	
105 4-Nitroaniline	138		7.826					ND	
106 4,6-Dinitro-2-methylphenol	198		7.855					ND	
107 N-Nitrosodiphenylamine	169		7.925					ND	7
$ 109 2,4,6-Tribromophenol	330	8.036	8.036	0.001	94	561466	50.0	44.8	
116 4-Bromophenyl phenyl ether	248		8.274					ND	
118 Hexachlorobenzene	284		8.321					ND	
120 Atrazine	200		8.438					ND	
121 Pentachlorophenol	266		8.513					ND	7
* 126 Phenanthrene-d10	188	8.694	8.694	0.000	97	525302	5.00	5.00	
128 Phenanthrene	178		8.717					ND	7
129 Anthracene	178		8.764					ND	7
130 Carbazole	167		8.921					ND	7
133 Di-n-butyl phthalate	149		9.265					ND	7
143 Fluoranthene	202		9.848					ND	7
* 149 Pyrene-d10 (IS)	212	10.046	10.040	0.006	97	522055	5.00	5.00	
150 Pyrene	202		10.058					ND	U
$ 152 p-Terphenyl-d14	244	10.221	10.221	0.000	97	2365404	25.0	24.7	
157 Butyl benzyl phthalate	149		10.734					ND	7
159 3,3'-Dichlorobenzidine	252		11.317					ND	7
161 Benzo[a]anthracene	228		11.329					ND	7
162 Chrysene	228		11.375					ND	7
163 Bis(2-ethylhexyl) phthalate	149		11.410					ND	7
165 Di-n-octyl phthalate	149		12.267					ND	7
167 Benzo[b]fluoranthene	252		12.722					ND	7
168 Benzo[k]fluoranthene	252		12.757					ND	7
169 Benzo[a]pyrene	252		13.176					ND	U
* 170 Perylene-d12	264	13.252	13.252	0.000	99	362267	5.00	5.00	
174 Indeno[1,2,3-cd]pyrene	276		14.773					ND	7
175 Dibenz(a,h)anthracene	278		14.814					ND	
176 Benzo[g,h,i]perylene	276		15.141					ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MSS_RV8270_IS_00038	Amount Added:	20.00	Units: uL	Run Reagent

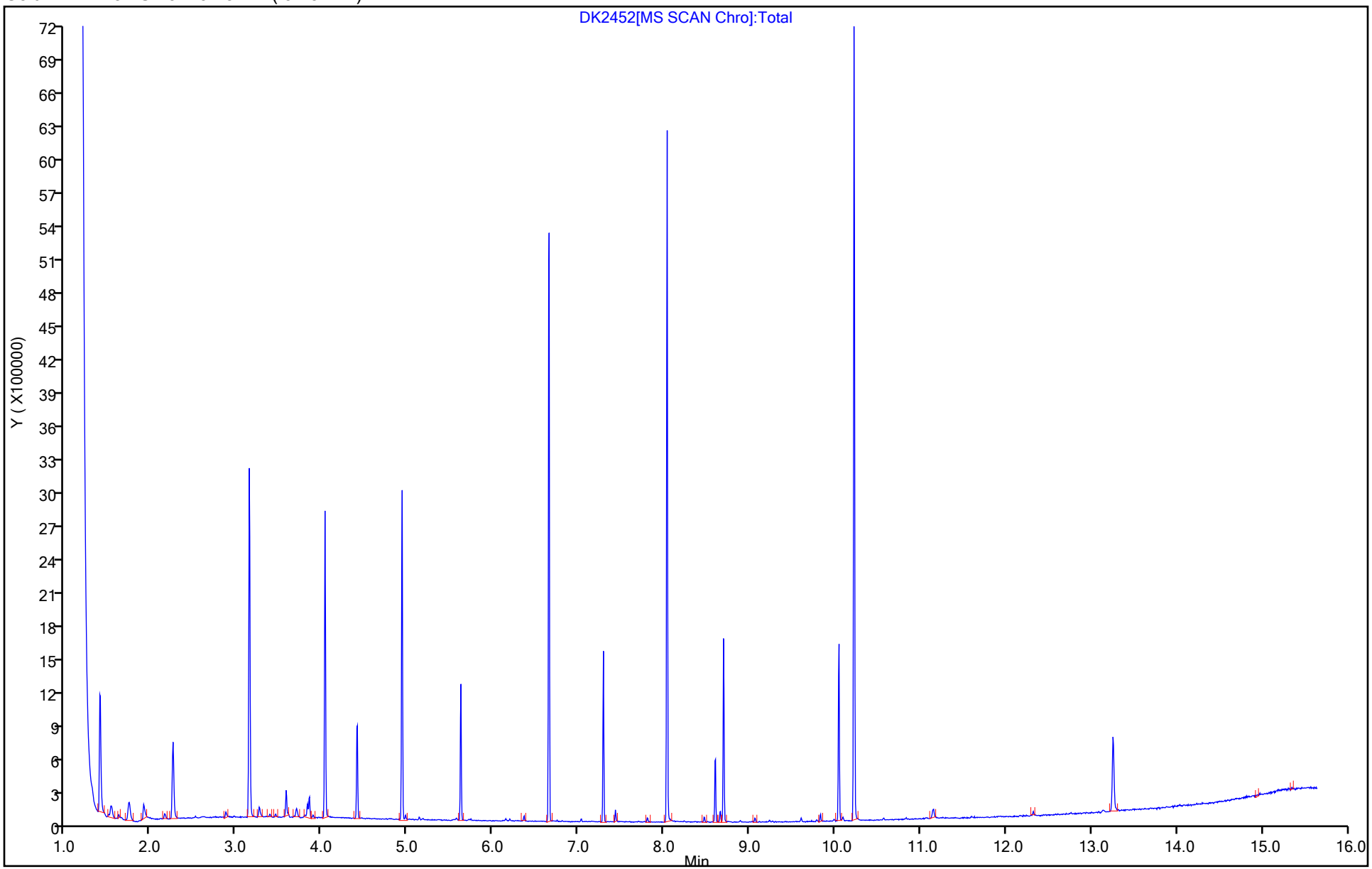
Report Date: 27-Nov-2022 17:13:46 Chrom Revision: 2.3 21-Nov-2022 18:34:02

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP19760\20221124-71888.b\DK2452.D

Injection Date:	24-Nov-2022 19:33:30	Instrument ID:	HP19760	Operator ID:	mem41592
Lims ID:	MB 410-320749/1-A			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	MSSemi_HP19760	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\HP19760\20221124-71888.b\DK2452.D
Lims ID: MB 410-320749/1-A
Client ID:
Sample Type: MB
Inject. Date: 24-Nov-2022 19:33:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: MB 410-320749/1-A
Misc. Info.: 410-0071888-003
Operator ID: mem41592 Instrument ID: HP19760

Method: \\chromfs\Lancaster\ChromData\HP19760\20221124-71888.b\MSSemi_HP19760.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 27-Nov-2022 17:13:33 Calib Date: 14-Nov-2022 21:19:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP19760\20221114-71142.b\DK1465.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1672

First Level Reviewer: P7EB Date: 27-Nov-2022 16:53:46

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 2-Fluorophenol	50.0	26.3	52.67
$ 16 Phenol-d5	50.0	17.6	35.20
$ 39 Nitrobenzene-d5	25.0	20.6	82.24
$ 73 2-Fluorobiphenyl (Surr)	25.0	19.0	76.01
$ 109 2,4,6-Tribromophenol	50.0	44.8	89.69
$ 152 p-Terphenyl-d14	25.0	24.7	98.91

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-106360-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCS 410-320749/2-A

Matrix: Water
Lab File ID: DK2453.D

Analysis Method: 8270D
Date Collected:

Extract. Method: 3510C
Date Extracted: 11/23/2022 17:30

Sample wt/vol: 250(mL)
Date Analyzed: 11/24/2022 19:53

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 320818
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
105-67-9	2,4-Dimethylphenol	55		10	3
51-28-5	2,4-Dinitrophenol	100		30	10
95-57-8	2-Chlorophenol	50		2	0.5
86-74-8	Carbazole	56		2	0.5
108-95-2	Phenol	28		2	0.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	102		10-150
321-60-8	2-Fluorobiphenyl (Surr)	90		44-120
367-12-4	2-Fluorophenol (Surr)	62		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	91		25-125
4165-62-2	Phenol-d5 (Surr)	45		10-120
1718-51-0	p-Terphenyl-d14 (Surr)	107		37-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP19760\20221124-71888.b\DK2453.D
Lims ID: LCS 410-320749/2-A
Client ID:
Sample Type: LCS
Inject. Date: 24-Nov-2022 19:53:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: LCS 410-320749/2-A
Misc. Info.: 410-0071888-004
Operator ID: mem41592 Instrument ID: HP19760

Method: \\chromfs\Lancaster\ChromData\HP19760\20221124-71888.b\MSSemi_HP19760.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 27-Nov-2022 17:13:33 Calib Date: 14-Nov-2022 21:19:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP19760\20221114-71142.b\DK1465.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1672

First Level Reviewer: P7EB Date: 27-Nov-2022 16:55:25

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 10 2-Fluorophenol	112	3.151	3.151	0.000	93	931212	50.0	31.2	
15 Benzaldehyde	77	3.990	3.991	0.000	93	389715	12.5	12.3	
$ 16 Phenol-d5	99	4.031	4.031	0.000	94	919795	50.0	22.6	
17 Phenol	94	4.043	4.049	-0.006	92	291748	12.5	7.04	
19 Bis(2-chloroethyl)ether	93	4.148	4.148	0.000	96	432756	12.5	13.0	
20 2-Chlorophenol	128	4.200	4.200	0.000	92	332953	12.5	12.4	
* 22 1,4-Dichlorobenzene-d4	152	4.404	4.410	-0.006	96	109110	5.00	5.00	
28 2-Methylphenol	108	4.631	4.632	-0.001	95	334906	12.5	12.4	
29 2,2'-oxybis[1-chloropropane]	45	4.661	4.667	-0.005	91	472384	12.5	12.1	
32 4-Methylphenol	108	4.777	4.783	-0.006	95	330074	12.5	11.3	
33 N-Nitrosodi-n-propylamine	70	4.789	4.789	0.000	85	359668	12.5	13.2	
34 Acetophenone	105	4.789	4.789	0.000	91	582098	12.5	12.6	
38 Hexachloroethane	117	4.888	4.894	-0.006	90	140597	12.5	10.1	
$ 39 Nitrobenzene-d5	82	4.935	4.940	0.000	87	889848	25.0	22.9	
40 Nitrobenzene	77	4.952	4.957	0.000	85	504173	12.5	12.5	
43 Isophorone	82	5.179	5.185	0.000	96	920396	12.5	14.0	
44 2-Nitrophenol	139	5.255	5.255	0.000	88	175195	12.5	13.5	
45 2,4-Dimethylphenol	107	5.290	5.290	0.000	98	424785	12.5	13.6	
47 Bis(2-chloroethoxy)methane	93	5.389	5.389	0.000	98	534344	12.5	13.2	
48 2,4-Dichlorophenol	162	5.482	5.482	0.000	96	308179	12.5	13.1	
* 50 Naphthalene-d8	136	5.622	5.622	0.000	99	376174	5.00	5.00	
51 Naphthalene	128	5.640	5.640	0.000	98	972124	12.5	12.1	
53 4-Chloroaniline	127	5.692	5.692	0.000	93	271326	12.5	8.63	
56 Hexachlorobutadiene	225	5.756	5.756	0.000	94	208229	12.5	10.4	
61 Caprolactam	113	6.013	6.013	0.000	81	31228	12.5	4.21	
64 4-Chloro-3-methylphenol	107	6.147	6.153	-0.006	93	357756	12.5	14.0	
66 2-Methylnaphthalene	142	6.298	6.304	-0.006	92	617344	12.5	12.4	
68 Hexachlorocyclopentadiene	237	6.450	6.450	0.000	96	174211	12.5	6.77	
69 1,2,4,5-Tetrachlorobenzene	216	6.456	6.456	0.000	97	402936	12.5	11.4	
71 2,4,6-Trichlorophenol	196	6.567	6.567	0.000	82	269384	12.5	14.0	
72 2,4,5-Trichlorophenol	196	6.596	6.596	0.000	92	292772	12.5	14.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 73 2-Fluorobiphenyl (Surr)	172	6.654	6.654	0.000	100	1516176	25.0	22.4	
75 1,1'-Biphenyl	154	6.747	6.747	0.000	95	894026	12.5	12.6	
76 2-Chloronaphthalene	162	6.759	6.765	-0.006	94	693981	12.5	12.6	
79 2-Nitroaniline	138	6.858	6.858	0.000	75	208637	12.5	14.9	
85 Dimethyl phthalate	163	7.039	7.039	0.000	97	607663	12.5	10.0	
87 2,6-Dinitrotoluene	165	7.091	7.091	0.000	88	181328	12.5	13.7	
88 Acenaphthylene	152	7.155	7.155	0.000	99	1014333	12.5	13.4	
89 3-Nitroaniline	138	7.249	7.249	0.000	85	160190	12.5	13.0	
* 90 Acenaphthene-d10	164	7.289	7.289	0.000	96	230771	5.00	5.00	
91 Acenaphthene	153	7.318	7.319	-0.001	96	724368	12.5	13.2	
92 2,4-Dinitrophenol	184	7.348	7.348	0.000	84	232189	25.0	25.7	
93 4-Nitrophenol	109	7.400	7.406	-0.006	82	186165	25.0	19.8	
95 2,4-Dinitrotoluene	165	7.470	7.470	0.000	89	257127	12.5	15.1	
96 Dibenzofuran	168	7.482	7.482	0.000	97	1049013	12.5	13.2	
98 2,3,4,6-Tetrachlorophenol	232	7.598	7.598	0.000	71	273346	12.5	14.2	
100 Diethyl phthalate	149	7.709	7.709	0.000	97	735581	12.5	12.6	
102 Fluorene	166	7.808	7.808	0.000	92	855397	12.5	13.5	
103 4-Chlorophenyl phenyl ether	204	7.814	7.814	0.000	91	474994	12.5	13.6	
105 4-Nitroaniline	138	7.820	7.826	-0.006	76	186423	12.5	13.9	
106 4,6-Dinitro-2-methylphenol	198	7.849	7.855	-0.006	84	331281	25.0	27.1	
107 N-Nitrosodiphenylamine	169	7.925	7.925	0.000	63	610207	10.6	11.7	
$ 109 2,4,6-Tribromophenol	330	8.035	8.036	0.000	94	565978	50.0	51.1	
116 4-Bromophenyl phenyl ether	248	8.274	8.274	0.000	65	296365	12.5	13.0	
118 Hexachlorobenzene	284	8.321	8.321	0.000	95	324456	12.5	12.5	
120 Atrazine	200	8.432	8.438	-0.006	93	281883	12.5	14.2	
121 Pentachlorophenol	266	8.508	8.513	-0.005	93	406259	25.0	27.9	
* 126 Phenanthrene-d10	188	8.694	8.694	0.000	97	475559	5.00	5.00	
128 Phenanthrene	178	8.717	8.718	0.000	98	1336422	12.5	13.2	
129 Anthracene	178	8.764	8.764	0.000	98	1339600	12.5	13.6	
130 Carbazole	167	8.921	8.921	0.000	96	1175161	12.5	14.0	
133 Di-n-butyl phthalate	149	9.265	9.265	0.000	100	1278830	12.5	14.2	
143 Fluoranthene	202	9.842	9.848	-0.006	97	1529077	12.5	14.0	
* 149 Pyrene-d10 (IS)	212	10.040	10.040	0.000	98	488942	5.00	5.00	
150 Pyrene	202	10.058	10.058	0.000	98	1621337	12.5	13.7	
$ 152 p-Terphenyl-d14	244	10.221	10.221	0.000	97	2402864	25.0	26.8	
157 Butyl benzyl phthalate	149	10.734	10.734	0.000	95	431346	12.5	11.1	
159 3,3'-Dichlorobenzidine	252	11.311	11.317	-0.006	72	871357	25.0	21.8	
161 Benzo[a]anthracene	228	11.329	11.329	0.000	97	1543843	12.5	14.4	
162 Chrysene	228	11.369	11.375	-0.006	96	1531929	12.5	13.8	
163 Bis(2-ethylhexyl) phthalate	149	11.404	11.410	-0.006	97	738760	12.5	17.0	E
165 Di-n-octyl phthalate	149	12.261	12.267	-0.006	99	1093266	12.5	18.8	E
167 Benzo[b]fluoranthene	252	12.716	12.722	-0.006	95	1283774	12.5	13.1	
168 Benzo[k]fluoranthene	252	12.757	12.757	0.000	98	1460521	12.5	14.8	
169 Benzo[a]pyrene	252	13.170	13.176	-0.006	75	1124519	12.5	14.6	
* 170 Perylene-d12	264	13.252	13.252	0.000	99	371009	5.00	5.00	
174 Indeno[1,2,3-cd]pyrene	276	14.773	14.773	0.000	97	863595	12.5	12.7	
175 Dibenz(a,h)anthracene	278	14.814	14.814	0.000	91	1006148	12.5	12.5	
176 Benzo[g,h,i]perylene	276	15.135	15.141	-0.006	97	1051385	12.5	12.6	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Reagents:

MSS_RV8270_IS_00038 Amount Added: 20.00 Units: uL Run Reagent

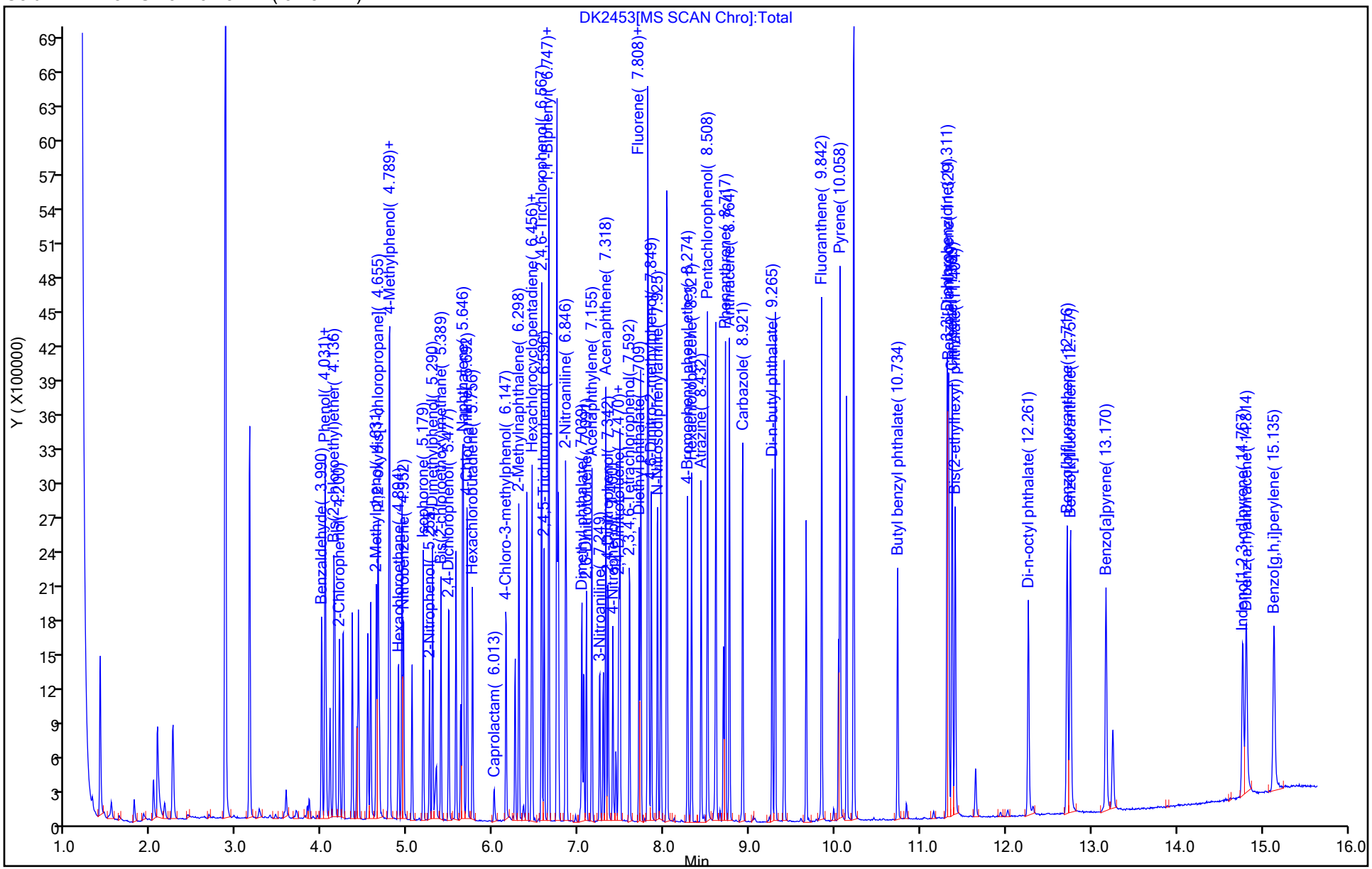
Report Date: 27-Nov-2022 17:13:50 Chrom Revision: 2.3 21-Nov-2022 18:34:02

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP19760\20221124-71888.b\DK2453.D

Injection Date:	24-Nov-2022 19:53:30	Instrument ID:	HP19760	Operator ID:	mem41592
Lims ID:	LCS 410-320749/2-A			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	MSSemi_HP19760	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\HP19760\20221124-71888.b\DK2453.D
Lims ID: LCS 410-320749/2-A
Client ID:
Sample Type: LCS
Inject. Date: 24-Nov-2022 19:53:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: LCS 410-320749/2-A
Misc. Info.: 410-0071888-004
Operator ID: mem41592 Instrument ID: HP19760

Method: \\chromfs\Lancaster\ChromData\HP19760\20221124-71888.b\MSSemi_HP19760.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 27-Nov-2022 17:13:33 Calib Date: 14-Nov-2022 21:19:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP19760\20221114-71142.b\DK1465.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1672

First Level Reviewer: P7EB Date: 27-Nov-2022 16:55:25

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 2-Fluorophenol	50.0	31.2	62.32
$ 16 Phenol-d5	50.0	22.6	45.13
$ 39 Nitrobenzene-d5	25.0	22.9	91.47
$ 73 2-Fluorobiphenyl (Surr)	25.0	22.4	89.58
$ 109 2,4,6-Tribromophenol	50.0	51.1	102.14
$ 152 p-Terphenyl-d14	25.0	26.8	107.28

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-106360-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCSD 410-320749/3-A

Matrix: Water
Lab File ID: DK2454.D

Analysis Method: 8270D
Date Collected:

Extract. Method: 3510C
Date Extracted: 11/23/2022 17:30

Sample wt/vol: 250(mL)
Date Analyzed: 11/24/2022 20:13

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 320818
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
105-67-9	2,4-Dimethylphenol	55		10	3
51-28-5	2,4-Dinitrophenol	100		30	10
95-57-8	2-Chlorophenol	53		2	0.5
86-74-8	Carbazole	57		2	0.5
108-95-2	Phenol	28		2	0.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	101		10-150
321-60-8	2-Fluorobiphenyl (Surr)	86		44-120
367-12-4	2-Fluorophenol (Surr)	65		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	92		25-125
4165-62-2	Phenol-d5 (Surr)	46		10-120
1718-51-0	p-Terphenyl-d14 (Surr)	107		37-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP19760\20221124-71888.b\DK2454.D
Lims ID: LCSD 410-320749/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 24-Nov-2022 20:13:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: LCSD 410-320749/3-A
Misc. Info.: 410-0071888-005
Operator ID: mem41592 Instrument ID: HP19760

Method: \\chromfs\Lancaster\ChromData\HP19760\20221124-71888.b\MSSemi_HP19760.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 27-Nov-2022 17:13:33 Calib Date: 14-Nov-2022 21:19:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP19760\20221114-71142.b\DK1465.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1672

First Level Reviewer: P7EB Date: 27-Nov-2022 16:56:14

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 10 2-Fluorophenol	112	3.145	3.151	-0.006	94	847409	50.0	32.3	
15 Benzaldehyde	77	3.991	3.991	0.001	93	372185	12.5	13.4	
$ 16 Phenol-d5	99	4.031	4.031	0.000	93	828606	50.0	23.1	
17 Phenol	94	4.043	4.049	-0.006	93	258922	12.5	7.12	
19 Bis(2-chloroethyl)ether	93	4.148	4.148	0.000	96	404644	12.5	13.8	
20 2-Chlorophenol	128	4.200	4.200	0.000	91	314618	12.5	13.3	
* 22 1,4-Dichlorobenzene-d4	152	4.404	4.410	-0.006	96	95867	5.00	5.00	
28 2-Methylphenol	108	4.632	4.632	0.000	95	299000	12.5	12.6	
29 2,2'-oxybis[1-chloropropane]	45	4.667	4.667	0.001	91	438898	12.5	12.8	
32 4-Methylphenol	108	4.777	4.783	-0.006	95	305461	12.5	11.9	
33 N-Nitrosodi-n-propylamine	70	4.789	4.789	0.000	73	329376	12.5	13.7	
34 Acetophenone	105	4.789	4.789	0.000	90	548564	12.5	13.6	
38 Hexachloroethane	117	4.888	4.894	-0.006	90	130101	12.5	10.6	
$ 39 Nitrobenzene-d5	82	4.935	4.940	0.000	87	840110	25.0	23.0	
40 Nitrobenzene	77	4.952	4.957	0.000	85	477668	12.5	12.6	
43 Isophorone	82	5.180	5.185	0.001	96	853480	12.5	13.8	
44 2-Nitrophenol	139	5.255	5.255	0.000	87	163923	12.5	13.4	
45 2,4-Dimethylphenol	107	5.290	5.290	0.000	98	400010	12.5	13.7	
47 Bis(2-chloroethoxy)methane	93	5.389	5.389	0.000	99	503898	12.5	13.2	
48 2,4-Dichlorophenol	162	5.483	5.482	0.001	96	290983	12.5	13.2	
* 50 Naphthalene-d8	136	5.623	5.622	0.001	99	353143	5.00	5.00	
51 Naphthalene	128	5.640	5.640	0.000	98	913526	12.5	12.1	
53 4-Chloroaniline	127	5.693	5.692	0.001	94	252396	12.5	8.55	
56 Hexachlorobutadiene	225	5.757	5.756	0.001	93	194734	12.5	10.3	
61 Caprolactam	113	6.013	6.013	0.000	81	29039	12.5	4.17	
64 4-Chloro-3-methylphenol	107	6.147	6.153	-0.006	91	327238	12.5	13.6	
66 2-Methylnaphthalene	142	6.299	6.304	-0.005	92	585284	12.5	12.5	
68 Hexachlorocyclopentadiene	237	6.450	6.450	0.000	96	163312	12.5	6.66	
69 1,2,4,5-Tetrachlorobenzene	216	6.456	6.456	0.000	97	384229	12.5	11.5	
71 2,4,6-Trichlorophenol	196	6.567	6.567	0.000	83	250608	12.5	13.7	
72 2,4,5-Trichlorophenol	196	6.596	6.596	0.000	91	266924	12.5	13.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 73 2-Fluorobiphenyl (Surr)	172	6.648	6.654	-0.006	100	1391942	25.0	21.6	
75 1,1'-Biphenyl	154	6.748	6.747	0.001	95	846415	12.5	12.6	
76 2-Chloronaphthalene	162	6.759	6.765	-0.006	97	640632	12.5	12.3	
79 2-Nitroaniline	138	6.858	6.858	0.000	75	195208	12.5	14.7	
85 Dimethyl phthalate	163	7.039	7.039	0.000	97	589444	12.5	10.2	
87 2,6-Dinitrotoluene	165	7.091	7.091	0.000	88	175969	12.5	13.9	
88 Acenaphthylene	152	7.156	7.155	0.001	99	953335	12.5	13.2	
89 3-Nitroaniline	138	7.249	7.249	0.000	85	142086	12.5	12.2	
* 90 Acenaphthene-d10	164	7.290	7.289	0.001	94	219587	5.00	5.00	
91 Acenaphthene	153	7.319	7.319	0.000	96	678692	12.5	13.0	
92 2,4-Dinitrophenol	184	7.348	7.348	0.000	83	215893	25.0	25.2	
93 4-Nitrophenol	109	7.400	7.406	-0.006	81	168088	25.0	18.8	
95 2,4-Dinitrotoluene	165	7.470	7.470	0.000	89	243799	12.5	15.0	
96 Dibenzofuran	168	7.482	7.482	0.000	96	971145	12.5	12.8	
98 2,3,4,6-Tetrachlorophenol	232	7.598	7.598	0.000	71	256472	12.5	14.0	
100 Diethyl phthalate	149	7.709	7.709	0.000	97	698468	12.5	12.6	
102 Fluorene	166	7.808	7.808	0.000	93	806344	12.5	13.4	
103 4-Chlorophenyl phenyl ether	204	7.814	7.814	0.000	91	447452	12.5	13.5	
105 4-Nitroaniline	138	7.820	7.826	-0.006	77	175535	12.5	13.8	
106 4,6-Dinitro-2-methylphenol	198	7.849	7.855	-0.006	84	308859	25.0	27.6	
107 N-Nitrosodiphenylamine	169	7.925	7.925	0.000	63	561950	10.6	11.7	
$ 109 2,4,6-Tribromophenol	330	8.036	8.036	0.001	94	532284	50.0	50.5	
116 4-Bromophenyl phenyl ether	248	8.275	8.274	0.001	65	275410	12.5	13.1	
118 Hexachlorobenzene	284	8.321	8.321	0.000	95	301158	12.5	12.7	
120 Atrazine	200	8.432	8.438	-0.006	93	259786	12.5	14.3	
121 Pentachlorophenol	266	8.508	8.513	-0.005	93	383755	25.0	28.7	
* 126 Phenanthrene-d10	188	8.694	8.694	0.000	97	436071	5.00	5.00	
128 Phenanthrene	178	8.718	8.718	0.001	98	1233712	12.5	13.3	
129 Anthracene	178	8.764	8.764	0.000	98	1254583	12.5	13.9	
130 Carbazole	167	8.922	8.921	0.001	96	1091604	12.5	14.2	
133 Di-n-butyl phthalate	149	9.265	9.265	0.000	100	1241177	12.5	15.1	
143 Fluoranthene	202	9.843	9.848	-0.005	97	1412304	12.5	14.1	
* 149 Pyrene-d10 (IS)	212	10.041	10.040	0.001	98	454772	5.00	5.00	
150 Pyrene	202	10.058	10.058	0.000	98	1517264	12.5	13.7	
$ 152 p-Terphenyl-d14	244	10.221	10.221	0.000	97	2226427	25.0	26.7	
157 Butyl benzyl phthalate	149	10.734	10.734	0.000	95	411837	12.5	11.4	
159 3,3'-Dichlorobenzidine	252	11.311	11.317	-0.006	72	788655	25.0	21.2	
161 Benzo[a]anthracene	228	11.329	11.329	0.000	98	1407389	12.5	14.1	
162 Chrysene	228	11.370	11.375	-0.005	96	1431741	12.5	13.9	
163 Bis(2-ethylhexyl) phthalate	149	11.405	11.410	-0.005	97	700374	12.5	17.3	E
165 Di-n-octyl phthalate	149	12.261	12.267	-0.006	99	1002433	12.5	18.6	E
167 Benzo[b]fluoranthene	252	12.716	12.722	-0.006	95	1215701	12.5	13.4	
168 Benzo[k]fluoranthene	252	12.751	12.757	-0.006	98	1350543	12.5	14.7	
169 Benzo[a]pyrene	252	13.171	13.176	-0.005	75	1058756	12.5	14.8	
* 170 Perylene-d12	264	13.252	13.252	0.000	99	344179	5.00	5.00	
174 Indeno[1,2,3-cd]pyrene	276	14.768	14.773	-0.005	98	804975	12.5	12.7	
175 Dibenz(a,h)anthracene	278	14.809	14.814	-0.005	90	931185	12.5	12.5	
176 Benzo[g,h,i]perylene	276	15.135	15.141	-0.006	97	977080	12.5	12.6	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Reagents:

MSS_RV8270_IS_00038 Amount Added: 20.00 Units: uL Run Reagent

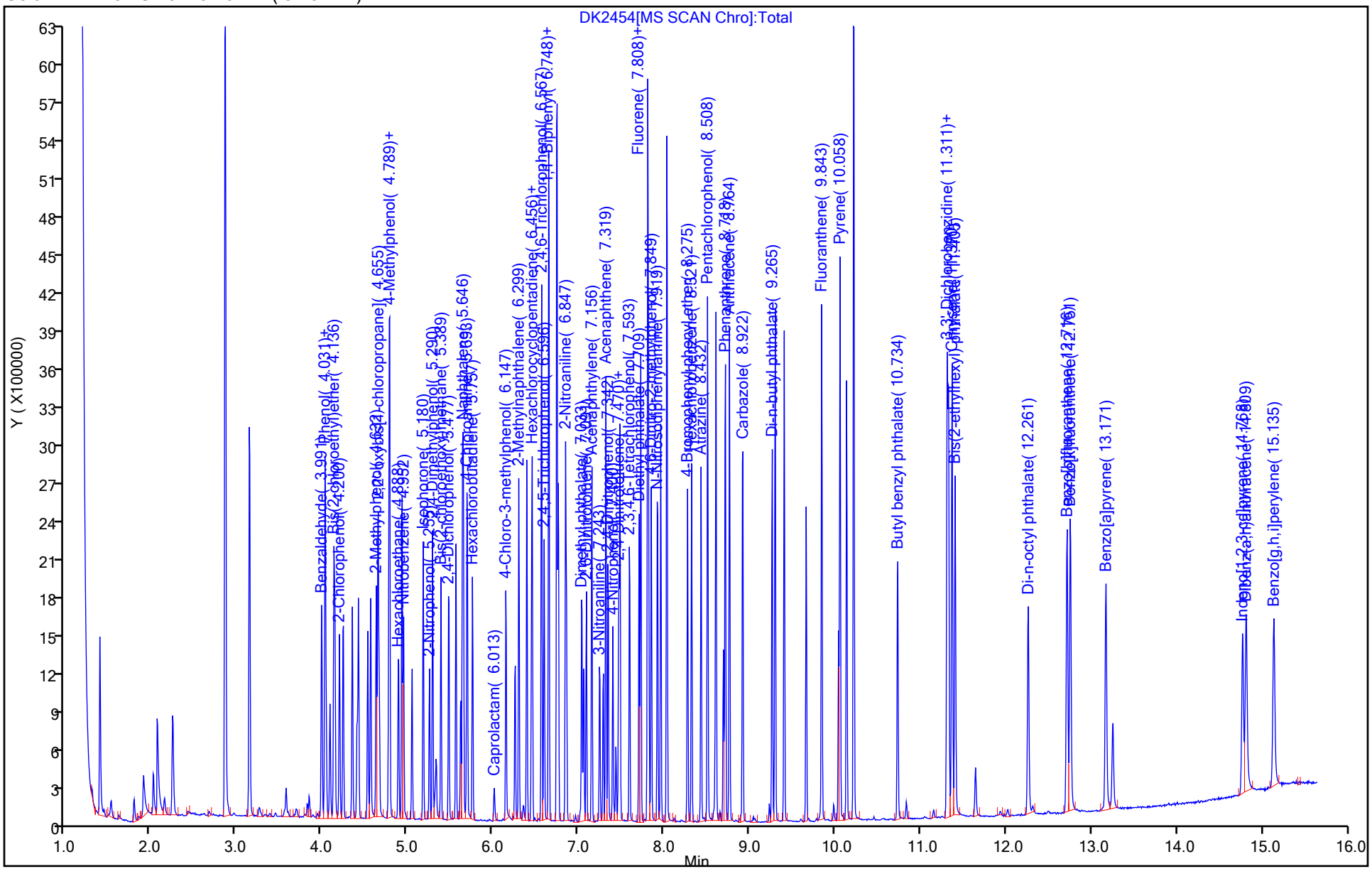
Report Date: 27-Nov-2022 17:13:52 Chrom Revision: 2.3 21-Nov-2022 18:34:02

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP19760\20221124-71888.b\DK2454.D

Injection Date:	24-Nov-2022 20:13:30	Instrument ID:	HP19760	Operator ID:	mem41592
Lims ID:	LCSD 410-320749/3-A			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	MSSemi_HP19760	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\HP19760\20221124-71888.b\DK2454.D
Lims ID: LCSD 410-320749/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 24-Nov-2022 20:13:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: LCSD 410-320749/3-A
Misc. Info.: 410-0071888-005
Operator ID: mem41592 Instrument ID: HP19760

Method: \\chromfs\Lancaster\ChromData\HP19760\20221124-71888.b\MSSemi_HP19760.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 27-Nov-2022 17:13:33 Calib Date: 14-Nov-2022 21:19:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP19760\20221114-71142.b\DK1465.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1672

First Level Reviewer: P7EB Date: 27-Nov-2022 16:56:14

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 2-Fluorophenol	50.0	32.3	64.55
$ 16 Phenol-d5	50.0	23.1	46.27
$ 39 Nitrobenzene-d5	25.0	23.0	91.99
$ 73 2-Fluorobiphenyl (Surr)	25.0	21.6	86.43
$ 109 2,4,6-Tribromophenol	50.0	50.5	100.95
$ 152 p-Terphenyl-d14	25.0	26.7	106.87

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-106360-1

SDG No.:

Client Sample ID: FBW001-MS_112022 MS
Lab Sample ID: 410-106360-3 MS

Matrix: Water
Lab File ID: DK2461.D

Analysis Method: 8270D
Date Collected: 11/17/2022 10:12

Extract. Method: 3510C
Date Extracted: 11/23/2022 17:30

Sample wt/vol: 237.2(mL)
Date Analyzed: 11/24/2022 22:33

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 320818
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
105-67-9	2,4-Dimethylphenol	57		10	3
51-28-5	2,4-Dinitrophenol	92		30	10
95-57-8	2-Chlorophenol	52		2	0.5
86-74-8	Carbazole	62		2	0.5
108-95-2	Phenol	30		2	0.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	103		10-150
321-60-8	2-Fluorobiphenyl (Surr)	89		44-120
367-12-4	2-Fluorophenol (Surr)	63		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	89		25-125
4165-62-2	Phenol-d5 (Surr)	45		10-120
1718-51-0	p-Terphenyl-d14 (Surr)	106		37-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP19760\20221124-71888.b\DK2461.D
Lims ID: 410-106360-A-3-A MS
Client ID: FBW001-MS_112022
Sample Type: MS
Inject. Date: 24-Nov-2022 22:33:30 ALS Bottle#: 11 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-106360-A-3-A MS
Misc. Info.: 410-0071888-010
Operator ID: mem41592 Instrument ID: HP19760

Method: \\chromfs\Lancaster\ChromData\HP19760\20221124-71888.b\MSSemi_HP19760.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 27-Nov-2022 17:14:00 Calib Date: 14-Nov-2022 21:19:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP19760\20221114-71142.b\DK1465.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1672

First Level Reviewer: P7EB Date: 27-Nov-2022 17:00:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 10 2-Fluorophenol	112	3.151	3.151	0.000	93	940452	50.0	31.5	
$ 16 Phenol-d5	99	4.031	4.031	0.000	93	917078	50.0	22.5	
17 Phenol	94	4.049	4.049	0.000	92	291838	12.5	7.05	
20 2-Chlorophenol	128	4.200	4.200	0.000	91	332830	12.5	12.4	
* 22 1,4-Dichlorobenzene-d4	152	4.410	4.410	0.000	96	109102	5.00	5.00	
$ 39 Nitrobenzene-d5	82	4.935	4.940	0.000	88	876941	25.0	22.1	
45 2,4-Dimethylphenol	107	5.290	5.290	0.000	98	427559	12.5	13.5	
* 50 Naphthalene-d8	136	5.622	5.622	0.000	99	383112	5.00	5.00	
$ 73 2-Fluorobiphenyl (Surr)	172	6.654	6.654	0.000	100	1545660	25.0	22.2	
* 90 Acenaphthene-d10	164	7.289	7.289	0.000	94	237172	5.00	5.00	
92 2,4-Dinitrophenol	184	7.348	7.348	0.000	84	202952	25.0	21.9	
$ 109 2,4,6-Tribromophenol	330	8.035	8.036	0.000	94	587511	50.0	51.6	
* 126 Phenanthrene-d10	188	8.694	8.694	0.000	97	473177	5.00	5.00	
130 Carbazole	167	8.921	8.921	0.000	96	1221237	12.5	14.7	
* 149 Pyrene-d10 (IS)	212	10.040	10.040	0.000	97	489611	5.00	5.00	
$ 152 p-Terphenyl-d14	244	10.221	10.221	0.000	97	2385968	25.0	26.6	
* 170 Perylene-d12	264	13.252	13.252	0.000	99	373333	5.00	5.00	

QC Flag Legend

Processing Flags

Reagents:

MSS_RV8270_IS_00038 Amount Added: 20.00 Units: uL Run Reagent

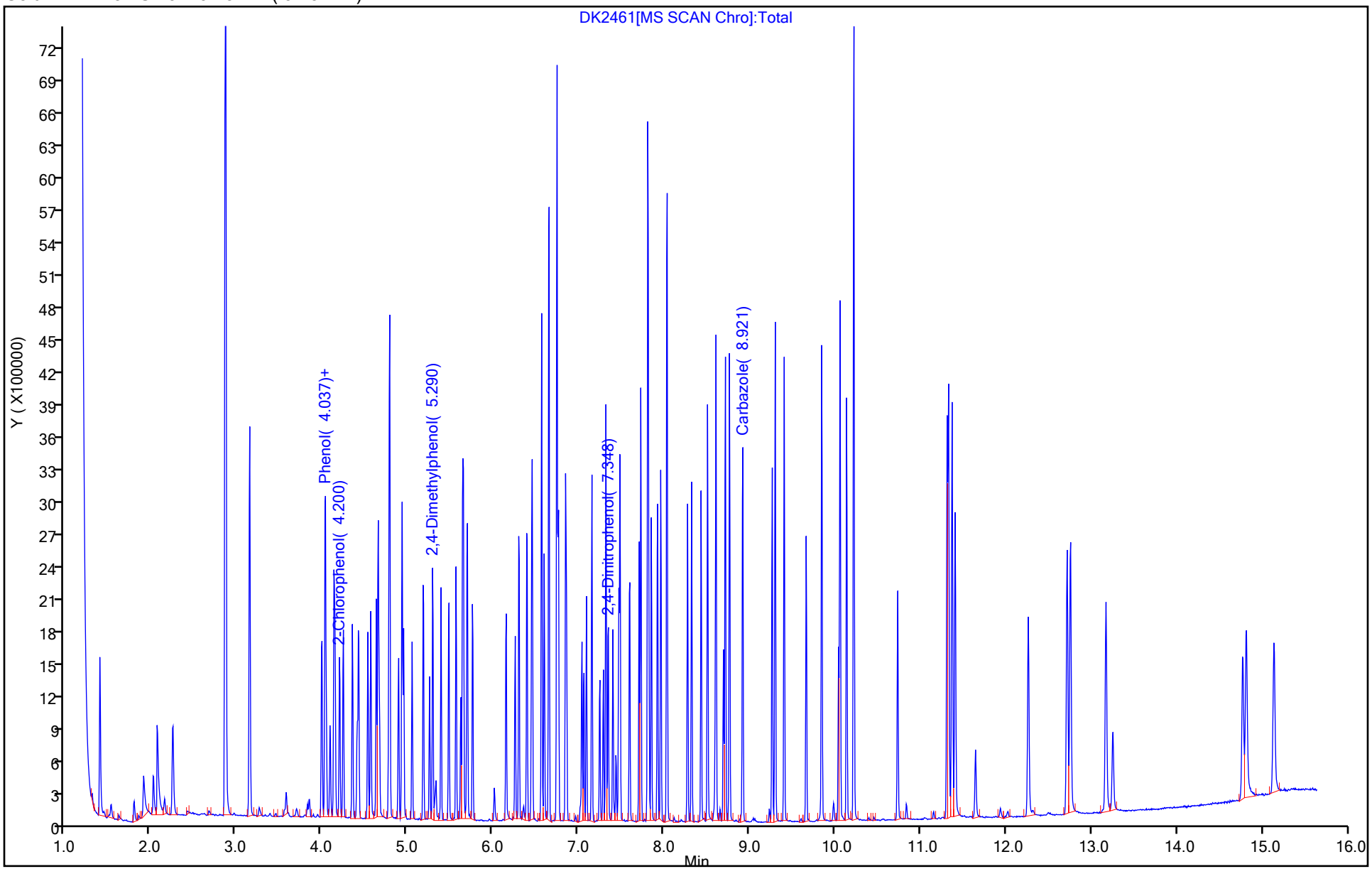
Report Date: 27-Nov-2022 17:14:04 Chrom Revision: 2.3 21-Nov-2022 18:34:02

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP19760\20221124-71888.b\DK2461.D

Injection Date:	24-Nov-2022 22:33:30	Instrument ID:	HP19760	Operator ID:	mem41592
Lims ID:	410-106360-A-3-A MS			Worklist Smp#:	10
Client ID:	FBW001-MS_112022				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	MSSemi_HP19760	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP19760\20221124-71888.b\DK2461.D				
Lims ID:	410-106360-A-3-A MS				
Client ID:	FBW001-MS_112022				
Sample Type:	MS				
Inject. Date:	24-Nov-2022 22:33:30	ALS Bottle#:	11	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-106360-A-3-A MS				
Misc. Info.:	410-0071888-010				
Operator ID:	mem41592	Instrument ID:	HP19760		
Method:	\\chromfs\Lancaster\ChromData\HP19760\20221124-71888.b\MSSemi_HP19760.m				
Limit Group:	MSSV - 8270D_E LVI				
Last Update:	27-Nov-2022 17:14:00	Calib Date:	14-Nov-2022 21:19:30		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP19760\20221114-71142.b\DK1465.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1672				

First Level Reviewer: P7EB Date: 27-Nov-2022 17:00:31

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 2-Fluorophenol	50.0	31.5	62.95
$ 16 Phenol-d5	50.0	22.5	45.00
$ 39 Nitrobenzene-d5	25.0	22.1	88.51
$ 73 2-Fluorobiphenyl (Surr)	25.0	22.2	88.86
$ 109 2,4,6-Tribromophenol	50.0	51.6	103.17
$ 152 p-Terphenyl-d14	25.0	26.6	106.38

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-106360-1

SDG No.:

Client Sample ID: FBW001-MSD_112022 MSD
Lab Sample ID: 410-106360-3 MSD

Matrix: Water
Lab File ID: DK2462.D

Analysis Method: 8270D
Date Collected: 11/17/2022 10:17

Extract. Method: 3510C
Date Extracted: 11/23/2022 17:30

Sample wt/vol: 243.1(mL)
Date Analyzed: 11/24/2022 22:53

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 320818
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
105-67-9	2,4-Dimethylphenol	57		10	3
51-28-5	2,4-Dinitrophenol	100		30	10
95-57-8	2-Chlorophenol	51		2	0.5
86-74-8	Carbazole	61		2	0.5
108-95-2	Phenol	28		2	0.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	103		10-150
321-60-8	2-Fluorobiphenyl (Surr)	90		44-120
367-12-4	2-Fluorophenol (Surr)	61		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	92		25-125
4165-62-2	Phenol-d5 (Surr)	44		10-120
1718-51-0	p-Terphenyl-d14 (Surr)	108		37-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP19760\20221124-71888.b\DK2462.D
Lims ID: 410-106360-A-3-B MSD
Client ID: FBW001-MSD_112022
Sample Type: MSD
Inject. Date: 24-Nov-2022 22:53:30 ALS Bottle#: 12 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-106360-A-3-B MSD
Misc. Info.: 410-0071888-011
Operator ID: mem41592 Instrument ID: HP19760

Method: \\chromfs\Lancaster\ChromData\HP19760\20221124-71888.b\MSSemi_HP19760.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 27-Nov-2022 17:14:00 Calib Date: 14-Nov-2022 21:19:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP19760\20221114-71142.b\DK1465.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1672

First Level Reviewer: P7EB Date: 27-Nov-2022 17:00:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 10 2-Fluorophenol	112	3.151	3.151	0.000	93	987131	50.0	30.6	
$ 16 Phenol-d5	99	4.031	4.031	0.000	93	980139	50.0	22.2	
17 Phenol	94	4.049	4.049	0.000	94	306272	12.5	6.84	
20 2-Chlorophenol	128	4.200	4.200	0.000	91	362323	12.5	12.5	
* 22 1,4-Dichlorobenzene-d4	152	4.410	4.410	0.000	95	117938	5.00	5.00	
$ 39 Nitrobenzene-d5	82	4.935	4.940	0.000	87	957554	25.0	22.9	
45 2,4-Dimethylphenol	107	5.290	5.290	0.000	98	466342	12.5	13.9	
* 50 Naphthalene-d8	136	5.622	5.622	0.000	100	404254	5.00	5.00	
$ 73 2-Fluorobiphenyl (Surr)	172	6.654	6.654	0.000	100	1635034	25.0	22.4	
* 90 Acenaphthene-d10	164	7.289	7.289	0.000	94	248768	5.00	5.00	
92 2,4-Dinitrophenol	184	7.348	7.348	0.000	84	243039	25.0	25.0	
$ 109 2,4,6-Tribromophenol	330	8.035	8.036	0.000	94	613050	50.0	51.3	
* 126 Phenanthrene-d10	188	8.694	8.694	0.000	97	494097	5.00	5.00	
130 Carbazole	167	8.921	8.921	0.000	96	1281039	12.5	14.7	
* 149 Pyrene-d10 (IS)	212	10.041	10.040	0.001	97	513604	5.00	5.00	
$ 152 p-Terphenyl-d14	244	10.221	10.221	0.000	97	2531768	25.0	26.9	
* 170 Perylene-d12	264	13.252	13.252	0.000	99	384738	5.00	5.00	

QC Flag Legend

Processing Flags

Reagents:

MSS_RV8270_IS_00038 Amount Added: 20.00 Units: uL Run Reagent

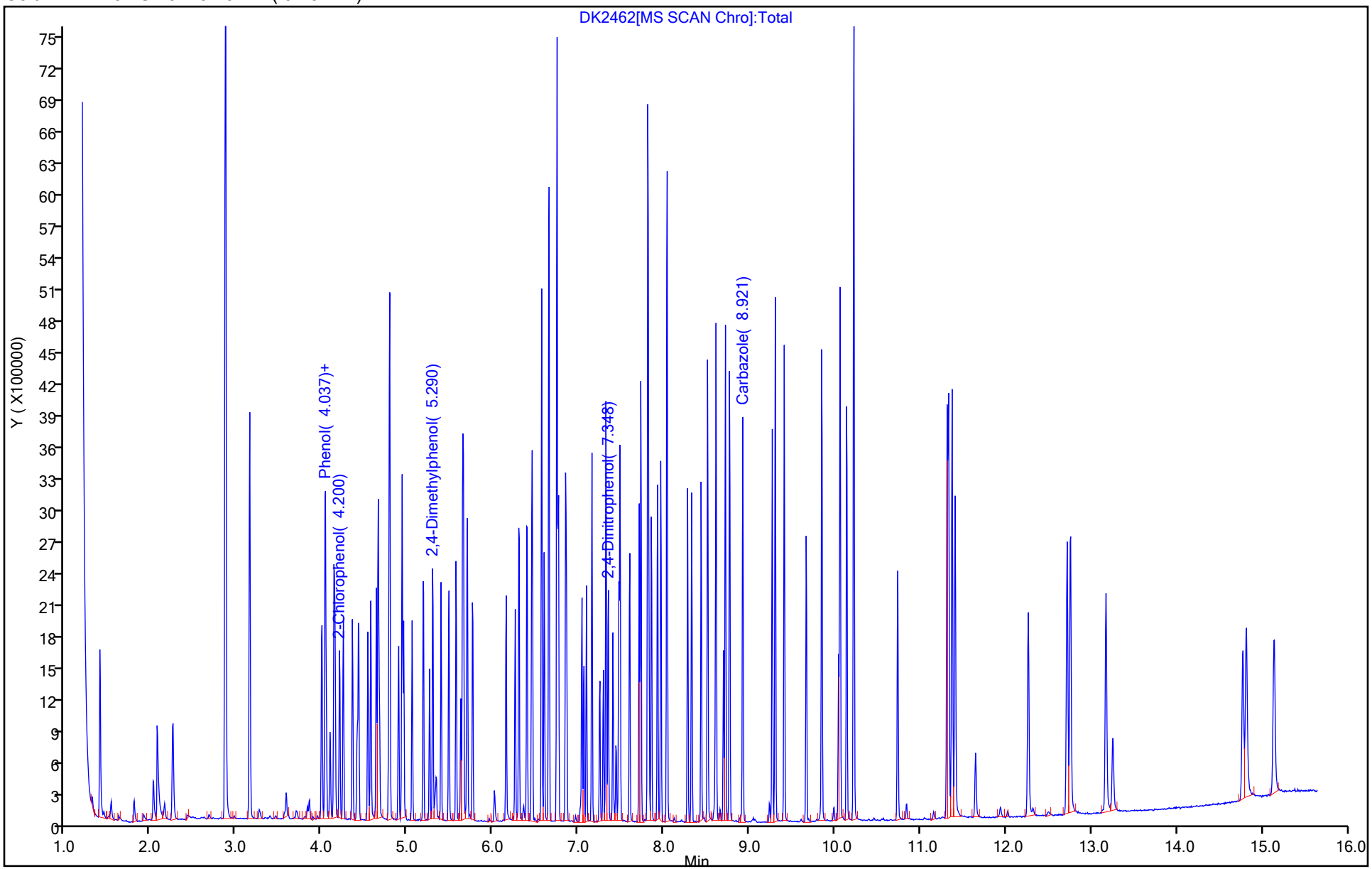
Report Date: 27-Nov-2022 17:14:06 Chrom Revision: 2.3 21-Nov-2022 18:34:02

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP19760\20221124-71888.b\DK2462.D

Injection Date:	24-Nov-2022 22:53:30	Instrument ID:	HP19760	Operator ID:	mem41592
Lims ID:	410-106360-A-3-B MSD			Worklist Smp#:	11
Client ID:	FBW001-MSD_112022				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	MSSemi_HP19760	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\HP19760\20221124-71888.b\DK2462.D
Lims ID: 410-106360-A-3-B MSD
Client ID: FBW001-MSD_112022
Sample Type: MSD
Inject. Date: 24-Nov-2022 22:53:30 ALS Bottle#: 12 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-106360-A-3-B MSD
Misc. Info.: 410-0071888-011
Operator ID: mem41592 Instrument ID: HP19760

Method: \\chromfs\Lancaster\ChromData\HP19760\20221124-71888.b\MSSemi_HP19760.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 27-Nov-2022 17:14:00 Calib Date: 14-Nov-2022 21:19:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP19760\20221114-71142.b\DK1465.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1672

First Level Reviewer: P7EB Date: 27-Nov-2022 17:00:46

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 2-Fluorophenol	50.0	30.6	61.12
$ 16 Phenol-d5	50.0	22.2	44.49
$ 39 Nitrobenzene-d5	25.0	22.9	91.59
$ 73 2-Fluorobiphenyl (Surr)	25.0	22.4	89.61
$ 109 2,4,6-Tribromophenol	50.0	51.3	102.63
$ 152 p-Terphenyl-d14	25.0	26.9	107.61

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-106360-1

SDG No.:

Instrument ID: HP19760 Start Date: 11/07/2022 18:35

Analysis Batch Number: 314883 End Date: 11/08/2022 01:54

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-314883/1		11/07/2022 18:35	1	DK0700b.D	DB-5MS 30m 0.25 0.25(mm)
ICIS 410-314883/2		11/07/2022 18:52	1	DK0701a.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-314883/3		11/07/2022 19:20	1	DK0702.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-314883/4		11/07/2022 19:41	1	DK0703.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-314883/5		11/07/2022 20:02	1	DK0704.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-314883/6		11/07/2022 20:23	1	DK0705.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-314883/7		11/07/2022 20:44	1	DK0706.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-314883/8		11/07/2022 21:04	1	DK0707.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-314883/9		11/07/2022 21:25	1	DK0708.D	DB-5MS 30m 0.25 0.25(mm)
ICVL 410-314883/10		11/07/2022 21:46	1		DB-5MS 30m 0.25 0.25(mm)
ICVL 410-314883/11		11/07/2022 22:07	1		DB-5MS 30m 0.25 0.25(mm)
ICV 410-314883/12		11/07/2022 22:28	1	DK0711.D	DB-5MS 30m 0.25 0.25(mm)
ICV 410-314883/13		11/07/2022 22:48	1	DK0712.D	DB-5MS 30m 0.25 0.25(mm)
ICV 410-314883/14		11/07/2022 23:09	1	DK0713.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-314883/15		11/07/2022 23:30	1		DB-5MS 30m 0.25 0.25(mm)
IC 410-314883/16		11/07/2022 23:50	1		DB-5MS 30m 0.25 0.25(mm)
IC 410-314883/17		11/08/2022 00:11	1		DB-5MS 30m 0.25 0.25(mm)
IC 410-314883/18		11/08/2022 00:32	1		DB-5MS 30m 0.25 0.25(mm)
IC 410-314883/19		11/08/2022 00:52	1		DB-5MS 30m 0.25 0.25(mm)
IC 410-314883/20		11/08/2022 01:13	1		DB-5MS 30m 0.25 0.25(mm)
IC 410-314883/21		11/08/2022 01:34	1		DB-5MS 30m 0.25 0.25(mm)
ICVL 410-314883/22		11/08/2022 01:54	1		DB-5MS 30m 0.25 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-106360-1

SDG No.:

Instrument ID: HP19760 Start Date: 11/24/2022 18:25

Analysis Batch Number: 320818 End Date: 11/25/2022 04:34

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-320818/1		11/24/2022 18:25	1	DK2450a.D	DB-5MS 30m 0.25 0.25(mm)
CCVIS 410-320818/2		11/24/2022 18:45	1	DK2451.D	DB-5MS 30m 0.25 0.25(mm)
MB 410-320749/1-A		11/24/2022 19:33	1	DK2452.D	DB-5MS 30m 0.25 0.25(mm)
LCS 410-320749/2-A		11/24/2022 19:53	1	DK2453.D	DB-5MS 30m 0.25 0.25(mm)
LCSD 410-320749/3-A		11/24/2022 20:13	1	DK2454.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		11/24/2022 20:33	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		11/24/2022 20:53	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		11/24/2022 21:13	1		DB-5MS 30m 0.25 0.25(mm)
410-106360-3	FBW001_112022	11/24/2022 22:13	1	DK2460.D	DB-5MS 30m 0.25 0.25(mm)
410-106360-3 MS	FBW001-MS_112022 MS	11/24/2022 22:33	1	DK2461.D	DB-5MS 30m 0.25 0.25(mm)
410-106360-3 MSD	FBW001-MSD_112022 MSD	11/24/2022 22:53	1	DK2462.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		11/24/2022 23:13	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		11/24/2022 23:33	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		11/24/2022 23:53	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		11/25/2022 00:13	1		DB-5MS 30m 0.25 0.25(mm)
410-106360-1	FBS010_112022	11/25/2022 00:33	1	DK2467.D	DB-5MS 30m 0.25 0.25(mm)
410-106360-2	DUP-01_112022	11/25/2022 00:53	1	DK2468.D	DB-5MS 30m 0.25 0.25(mm)
410-106360-4	FBW001_FB_112022	11/25/2022 01:13	1	DK2469.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		11/25/2022 01:34	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		11/25/2022 01:54	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		11/25/2022 02:14	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		11/25/2022 02:34	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		11/25/2022 02:54	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		11/25/2022 03:14	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		11/25/2022 03:34	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		11/25/2022 03:54	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		11/25/2022 04:14	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		11/25/2022 04:34	1		DB-5MS 30m 0.25 0.25(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-106360-1

SDG No.:

Batch Number: 314883 Batch Start Date: 11/07/22 18:35 Batch Analyst: Monborne, Edward M

Batch Method: 8270D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	CalcMsg	MSS_FVICV_HCP 00009	MSS_RV8270_1 00026	MSS_RV8270_2 00027	MSS_RV8270_3 00024
DFTPP 410-314883/1		8270D		1 mL	Perform Calculation left blank				
ICIS 410-314883/2		8270D		1 mL	Perform Calculation left blank				
IC 410-314883/3		8270D		1 mL	Perform Calculation left blank		1 mL		
IC 410-314883/4		8270D		1 mL	Perform Calculation left blank			1 mL	
IC 410-314883/5		8270D		1 mL	Perform Calculation left blank				
IC 410-314883/6		8270D		1 mL	Perform Calculation left blank				
IC 410-314883/7		8270D		1 mL	Perform Calculation left blank				
IC 410-314883/8		8270D		1 mL	Perform Calculation left blank				
IC 410-314883/9		8270D		1 mL	Perform Calculation left blank				1 mL
ICV 410-314883/12		8270D		1 mL	Perform Calculation left blank				
ICV 410-314883/13		8270D		1 mL	Perform Calculation left blank				
ICV 410-314883/14		8270D		1 mL	Perform Calculation left blank	1 mL			

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSS_RV8270_4 00024	MSS_RV8270_5 00034	MSS_RV8270_6 00036	MSS_RV8270_7 00026	MSS_RV8270_8 00027	MSS_RV8270ICV 00018
DFTPP 410-314883/1		8270D							

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 SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-106360-1

SDG No.:

Batch Number: 314883 Batch Start Date: 11/07/22 18:35 Batch Analyst: Monborne, Edward M

Batch Method: 8270D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSS_RV8270_4 00024	MSS_RV8270_5 00034	MSS_RV8270_6 00036	MSS_RV8270_7 00026	MSS_RV8270_8 00027	MSS_RV8270ICV 00018
ICIS 410-314883/2		8270D				1 mL			
IC 410-314883/3		8270D							
IC 410-314883/4		8270D							
IC 410-314883/5		8270D						1 mL	
IC 410-314883/6		8270D					1 mL		
IC 410-314883/7		8270D			1 mL				
IC 410-314883/8		8270D		1 mL					
IC 410-314883/9		8270D							
ICV 410-314883/12		8270D							1 mL
ICV 410-314883/13		8270D							
ICV 410-314883/14		8270D							

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSS_RVBAS_ICV 00011	MSS_RVDFTPP 00011				
DFTPP 410-314883/1		8270D			1 mL				
ICIS 410-314883/2		8270D							
IC 410-314883/3		8270D							
IC 410-314883/4		8270D							
IC 410-314883/5		8270D							
IC 410-314883/6		8270D							
IC 410-314883/7		8270D							
IC 410-314883/8		8270D							
IC 410-314883/9		8270D							
ICV 410-314883/12		8270D							
ICV 410-314883/13		8270D		1 mL					
ICV 410-314883/14		8270D							

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 SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-106360-1

SDG No.:

Batch Number: 314883 Batch Start Date: 11/07/22 18:35 Batch Analyst: Monborne, Edward M

Batch Method: 8270D Batch End Date:

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 SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-106360-1

SDG No.:

Batch Number: 320749 Batch Start Date: 11/23/22 17:30 Batch Analyst: Sanchez, Osvaldo

Batch Method: 3510C Batch End Date: 11/23/22 22:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	DensityAcc	InitialAmount	FinalAmount	ReceivedpH
MB 410-320749/1		3510C, 8270D				n/a	250 mL	1 mL	n/a SU
LCS 410-320749/2		3510C, 8270D				n/a	250 mL	1 mL	n/a SU
LCSD 410-320749/3		3510C, 8270D				n/a	250 mL	1 mL	n/a SU
410-106360-A-3 MS	FBW001-MS_112022	3510C, 8270D	T	406.51 g	169.34 g	n/a	237.2 mL	1 mL	n/a SU
410-106360-A-3 MSD	FBW001-MSD_112022	3510C, 8270D	T	412.12 g	169.04 g	n/a	243.1 mL	1 mL	n/a SU
410-106360-B-1	FBS010_112022	3510C, 8270D	T	403.97 g	168.45 g	n/a	235.5 mL	1 mL	n/a SU
410-106360-B-2	DUP-01_112022	3510C, 8270D	T	406.21 g	166.70 g	n/a	239.5 mL	1 mL	n/a SU
410-106360-B-3	FBW001_112022	3510C, 8270D	T	412.21 g	169.35 g	n/a	242.9 mL	1 mL	n/a SU
410-106360-B-4	FBW001_FB_112022	3510C, 8270D	T	405.61 g	168.10 g	n/a	237.5 mL	1 mL	n/a SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	FirstAdjustpH	SecondAdjustpH	OP_MINIBNA_SS 00075	OP_MINLCS1_MS 00141	OP_MINLCS2_MS 00080	AnalysisComment
MB 410-320749/1		3510C, 8270D		11 SU	2 SU	1 mL			tap water
LCS 410-320749/2		3510C, 8270D		11 SU	2 SU	1 mL	1 mL	1 mL	tap water
LCSD 410-320749/3		3510C, 8270D		11 SU	2 SU	1 mL	1 mL	1 mL	tap water
410-106360-A-3 MS	FBW001-MS_112022	3510C, 8270D	T	11 SU	2 SU	1 mL	1 mL	1 mL	clear
410-106360-A-3 MSD	FBW001-MSD_112022	3510C, 8270D	T	11 SU	2 SU	1 mL	1 mL	1 mL	clear
410-106360-B-1	FBS010_112022	3510C, 8270D	T	11 SU	2 SU	1 mL			clear
410-106360-B-2	DUP-01_112022	3510C, 8270D	T	11 SU	2 SU	1 mL			clear
410-106360-B-3	FBW001_112022	3510C, 8270D	T	11 SU	2 SU	1 mL			clear
410-106360-B-4	FBW001_FB_112022	3510C, 8270D	T	11 SU	2 SU	1 mL			clear

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 SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-106360-1

SDG No.:

Batch Number: 320749 Batch Start Date: 11/23/22 17:30 Batch Analyst: Sanchez, Osvaldo

Batch Method: 3510C Batch End Date: 11/23/22 22:30

Batch Notes	
Method/Fraction	625_Prep_LVI
Balance ID	93158
Pipette/Syringe/Dispenser ID	4
Analyst ID - Extraction	OS11067
Analyst ID - Spike Analyst	OS11067
Acid Used for pH Adjustment ID	H2SO4:219415
Base Used to Adjust pH ID	NaOH:4103D49
Prep Solvent ID	MeCl2:225457
Prep Solvent Volume Used	90
Na2SO4 ID	22321A
Analyst ID - Concentration	OS11067
Equipment ID - Concentration 1	RapidVap#4,3
Concentration 1 Corrected Temperature	80 Degrees C
Batch Comment	split with batch 320750

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.

Method 8270D SIM

Semivolatile Organic Compounds (GC/MS SIM) by Method 8270D

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-106360-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-5MS 30m ID: 0.25(mm)

Client Sample ID	Lab Sample ID	MNPd10 #	FLN10 #	BAPd12 #
FBS010_112022	410-106360-1	78	71	73
FBS010_112022 RA	410-106360-1 RA	76	80	76
FBS010_112022 RE	410-106360-1 RE	45	77	68
DUP-01_112022	410-106360-2	82	70	73
DUP-01_112022 RA	410-106360-2 RA	76	82	75
DUP-01_112022 RE	410-106360-2 RE	54	79	72
FBW001_112022	410-106360-3	71	63	54
FBW001_112022 RA	410-106360-3 RA	65	70	55
FBW001_112022 RE	410-106360-3 RE	41	57	65
FBW001_FB_112022	410-106360-4	82	70	77
FBW001_FB_112022 RA	410-106360-4 RA	75	81	78
FBW001_FB_112022 RE	410-106360-4 RE	49	76	83
	MB 410-320750/1-A	79	76	84
	MB 410-323309/1-A	57	60	66
	LCS 410-320750/2-A	73	74	87
	LCS 410-323309/2-A	68	75	84
	LCSD 410-320750/3-A	74	75	88
	LCSD 410-323309/3-A	68	79	89
FBW001-MS_112022 MS	410-106360-3 MS	75	77	78
FBW001-MS_112022 MS RE	410-106360-3 MS RE	52	76	78
FBW001-MSD_112022 MSD	410-106360-3 MSD	75	73	77
FBW001-MSD_112022 MSD RE	410-106360-3 MSD RE	50	75	79

	QC LIMITS
MNPd10 = 1-Methylnaphthalene-d10 (Surr)	36-111
FLN10 = Fluoranthene-d10 (Surr)	47-128
BAPd12 = Benzo(a)pyrene-d12 (Surr)	10-110

Column to be used to flag recovery values

FORM II 8270D SIM

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-106360-1

SDG No.:

Matrix: Water Level: Low Lab File ID: NK1403.D

Lab ID: LCS 410-320750/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,4-Dioxane	1.00	0.478	48	23-120	
1-Methylnaphthalene	1.00	0.766	77	23-124	
2-Methylnaphthalene	1.00	0.691	69	20-133	
Acenaphthene	1.00	0.811	81	42-120	
Acenaphthylene	1.00	0.784	78	49-120	
Anthracene	1.00	0.856	86	54-121	
Benzo[a]anthracene	1.00	0.897	90	61-122	
Benzo[a]pyrene	1.00	0.883	88	60-120	
Benzo[b]fluoranthene	1.00	0.893	89	58-122	
Benzo[g,h,i]perylene	1.00	0.904	90	50-120	
Benzo[k]fluoranthene	1.00	0.922	92	57-128	
Bis(2-chloroethyl)ether	1.00	0.961	96	59-130	
Bis(2-ethylhexyl) phthalate	1.00	1.36	136	14-155	
Butylbenzylphthalate	1.00	0.979 J	98	10-120	
Chrysene	1.00	0.916	92	55-123	
Dibenz(a,h)anthracene	1.00	0.810	81	50-121	
Dibenzofuran	1.00	0.783	78	48-124	
Diethylphthalate	1.00	0.914 J	91	38-120	
Dimethylphthalate	1.00	0.900 J	90	10-121	
Di-n-butyl phthalate	1.00	2.33	233	46-125	*+
Di-n-octyl phthalate	1.00	0.957 J	96	22-130	
Fluoranthene	1.00	0.808	81	61-123	
Fluorene	1.00	0.794	79	55-120	
Hexachlorobenzene	1.00	0.836	84	20-120	
Indeno[1,2,3-cd]pyrene	1.00	0.857	86	47-143	
Naphthalene	1.00	0.764	76	20-120	
N-Nitrosodimethylamine	1.00	0.760	76	37-120	
Phenanthrene	1.00	0.855	86	59-120	
Pyrene	1.00	0.884	88	46-122	

Column to be used to flag recovery and RPD values

FORM III 8270D SIM

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-106360-1

SDG No.:

Matrix: Water Level: Low Lab File ID: NL0165.D

Lab ID: LCS 410-323309/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,4-Dioxane	1.00	0.432	43	23-120	
1-Methylnaphthalene	1.00	0.678	68	23-124	
2-Methylnaphthalene	1.00	0.619	62	20-133	
Acenaphthene	1.00	0.698	70	42-120	
Acenaphthylene	1.00	0.718	72	49-120	
Anthracene	1.00	0.756	76	54-121	
Benzo[a]anthracene	1.00	0.834	83	61-122	
Benzo[a]pyrene	1.00	0.847	85	60-120	
Benzo[b]fluoranthene	1.00	0.777	78	58-122	
Benzo[g,h,i]perylene	1.00	0.811	81	50-120	
Benzo[k]fluoranthene	1.00	0.918	92	57-128	
Bis(2-chloroethyl)ether	1.00	0.847	85	59-130	
Bis(2-ethylhexyl) phthalate	1.00	0.779 J	78	14-155	
Butylbenzylphthalate	1.00	0.420 J	42	10-120	
Chrysene	1.00	0.857	86	55-123	
Dibenz(a,h)anthracene	1.00	0.764	76	50-121	
Dibenzofuran	1.00	0.742	74	48-124	
Diethylphthalate	1.00	0.630 J	63	38-120	
Dimethylphthalate	1.00	0.257 J	26	10-121	
Di-n-butyl phthalate	1.00	1.57	157	46-125	*+
Di-n-octyl phthalate	1.00	0.730 J	73	22-130	
Fluoranthene	1.00	0.768	77	61-123	
Fluorene	1.00	0.724	72	55-120	
Hexachlorobenzene	1.00	0.762	76	20-120	
Indeno[1,2,3-cd]pyrene	1.00	0.760	76	47-143	
Naphthalene	1.00	0.699	70	20-120	
N-Nitrosodimethylamine	1.00	0.633	63	37-120	
Phenanthrene	1.00	0.776	78	59-120	
Pyrene	1.00	0.863	86	46-122	

Column to be used to flag recovery and RPD values

FORM III 8270D SIM

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-106360-1

SDG No.:

Matrix: Water Level: Low Lab File ID: NK1404.D

Lab ID: LCSD 410-320750/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,4-Dioxane	1.00	0.557	56	15	30	23-120	
1-Methylnaphthalene	1.00	0.795	79	4	30	23-124	
2-Methylnaphthalene	1.00	0.704	70	2	30	20-133	
Acenaphthene	1.00	0.806	81	1	30	42-120	
Acenaphthylene	1.00	0.783	78	0	30	49-120	
Anthracene	1.00	0.889	89	4	30	54-121	
Benzo[a]anthracene	1.00	0.919	92	2	30	61-122	
Benzo[a]pyrene	1.00	0.930	93	5	30	60-120	
Benzo[b]fluoranthene	1.00	0.946	95	6	30	58-122	
Benzo[g,h,i]perylene	1.00	0.918	92	1	30	50-120	
Benzo[k]fluoranthene	1.00	0.955	96	4	30	57-128	
Bis(2-chloroethyl)ether	1.00	0.956	96	1	30	59-130	
Bis(2-ethylhexyl) phthalate	1.00	1.19	119	13	30	14-155	
Butylbenzylphthalate	1.00	0.992 J	99	1	30	10-120	
Chrysene	1.00	0.983	98	7	30	55-123	
Dibenz(a,h)anthracene	1.00	0.817	82	1	30	50-121	
Dibenzofuran	1.00	0.791	79	1	30	48-124	
Diethylphthalate	1.00	0.903 J	90	1	30	38-120	
Dimethylphthalate	1.00	0.824 J	82	9	30	10-121	
Di-n-butyl phthalate	1.00	1.32	132	55	30	46-125	*+ *1
Di-n-octyl phthalate	1.00	0.977 J	98	2	30	22-130	
Fluoranthene	1.00	0.826	83	2	30	61-123	
Fluorene	1.00	0.788	79	1	30	55-120	
Hexachlorobenzene	1.00	0.868	87	4	30	20-120	
Indeno[1,2,3-cd]pyrene	1.00	0.863	86	1	30	47-143	
Naphthalene	1.00	0.792	79	4	30	20-120	
N-Nitrosodimethylamine	1.00	0.787	79	4	30	37-120	
Phenanthrene	1.00	0.860	86	1	30	59-120	
Pyrene	1.00	0.958	96	8	30	46-122	

Column to be used to flag recovery and RPD values

FORM III 8270D SIM

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-106360-1

SDG No.:

Matrix: Water Level: Low Lab File ID: NL0166.D

Lab ID: LCSD 410-323309/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,4-Dioxane	1.00	0.382	38	12	30	23-120	
1-Methylnaphthalene	1.00	0.700	70	3	30	23-124	
2-Methylnaphthalene	1.00	0.616	62	0	30	20-133	
Acenaphthene	1.00	0.716	72	3	30	42-120	
Acenaphthylene	1.00	0.741	74	3	30	49-120	
Anthracene	1.00	0.796	80	5	30	54-121	
Benzo[a]anthracene	1.00	0.870	87	4	30	61-122	
Benzo[a]pyrene	1.00	0.860	86	1	30	60-120	
Benzo[b]fluoranthene	1.00	0.787	79	1	30	58-122	
Benzo[g,h,i]perylene	1.00	0.868	87	7	30	50-120	
Benzo[k]fluoranthene	1.00	0.953	95	4	30	57-128	
Bis(2-chloroethyl)ether	1.00	0.853	85	1	30	59-130	
Bis(2-ethylhexyl) phthalate	1.00	0.831 J	83	6	30	14-155	
Butylbenzylphthalate	1.00	0.525 J	52	22	30	10-120	
Chrysene	1.00	0.862	86	1	30	55-123	
Dibenz(a,h)anthracene	1.00	0.780	78	2	30	50-121	
Dibenzofuran	1.00	0.763	76	3	30	48-124	
Diethylphthalate	1.00	0.774 J	77	21	30	38-120	
Dimethylphthalate	1.00	0.426 J	43	49	30	10-121	*1
Di-n-butyl phthalate	1.00	0.890 J	89	55	30	46-125	*1
Di-n-octyl phthalate	1.00	0.743 J	74	2	30	22-130	
Fluoranthene	1.00	0.811	81	5	30	61-123	
Fluorene	1.00	0.764	76	5	30	55-120	
Hexachlorobenzene	1.00	0.763	76	0	30	20-120	
Indeno[1,2,3-cd]pyrene	1.00	0.796	80	5	30	47-143	
Naphthalene	1.00	0.713	71	2	30	20-120	
N-Nitrosodimethylamine	1.00	0.578	58	9	30	37-120	
Phenanthrene	1.00	0.801	80	3	30	59-120	
Pyrene	1.00	0.861	86	0	30	46-122	

Column to be used to flag recovery and RPD values

FORM III 8270D SIM

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-106360-1

SDG No.:

Matrix: Water Level: Low Lab File ID: NK1413.D

Lab ID: 410-106360-3 MS Client ID: FBW001-MS_112022 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,4-Dioxane	1.04	ND	0.487	47	23-120	
1-Methylnaphthalene	1.04	ND	0.855	82	23-124	
2-Methylnaphthalene	1.04	ND	0.746	72	20-133	
Acenaphthene	1.04	ND	0.823	79	42-120	
Acenaphthylene	1.04	ND	0.838	81	49-120	
Anthracene	1.04	0.013 J	0.927	88	54-121	
Benzo[a]anthracene	1.04	0.019 J	0.890	84	61-122	
Benzo[a]pyrene	1.04	0.011 J	0.855	81	60-120	
Benzo[b]fluoranthene	1.04	0.015 J	0.876	83	58-122	
Benzo[g,h,i]perylene	1.04	0.014 J	0.759	72	50-120	
Benzo[k]fluoranthene	1.04	0.012 J	0.911	86	57-128	
Bis(2-chloroethyl)ether	1.04	ND	0.961	92	59-130	
Bis(2-ethylhexyl) phthalate	1.04	0.13 J	1.11	94	14-155	
Butylbenzylphthalate	1.04	ND	0.996 J	96	10-120	
Chrysene	1.04	0.017 J	0.883	83	55-123	
Dibenz(a,h)anthracene	1.04	ND	0.665	64	50-121	
Dibenzofuran	1.04	0.010 J	0.886	84	48-124	
Diethylphthalate	1.04	ND	1.08	104	38-120	
Dimethylphthalate	1.04	ND	0.949 J	91	10-121	
Di-n-butyl phthalate	1.04	0.60 J	1.73	108	46-125	
Di-n-octyl phthalate	1.04	ND	0.988 J	95	22-130	
Fluoranthene	1.04	0.018 J	0.875	82	61-123	
Fluorene	1.04	0.012 J	0.886	84	55-120	
Hexachlorobenzene	1.04	ND	0.914	88	20-120	
Indeno[1,2,3-cd]pyrene	1.04	ND	0.695	67	47-143	
Naphthalene	1.04	ND	0.851	82	20-120	
N-Nitrosodimethylamine	1.04	ND	0.709	68	37-120	
Phenanthrene	1.04	ND	0.920	89	59-120	
Pyrene	1.04	0.021 J	0.914	86	46-122	

Column to be used to flag recovery and RPD values

FORM III 8270D SIM

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-106360-1

SDG No.:

Matrix: Water Level: Low Lab File ID: NL0178.D

Lab ID: 410-106360-3 MS RE Client ID: FBW001-MS_112022 MS RE

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,4-Dioxane	1.05	ND	0.320	31	23-120	H
1-Methylnaphthalene	1.05	ND	0.557	53	23-124	H
2-Methylnaphthalene	1.05	ND	0.477	46	20-133	H
Acenaphthene	1.05	ND	0.574	55	42-120	H
Acenaphthylene	1.05	ND	0.586	56	49-120	H
Anthracene	1.05	ND	0.813	78	54-121	H
Benzo[a]anthracene	1.05	ND	0.841	80	61-122	H
Benzo[a]pyrene	1.05	ND	0.819	78	60-120	H
Benzo[b]fluoranthene	1.05	ND	0.800	76	58-122	H
Benzo[g,h,i]perylene	1.05	ND	0.663	63	50-120	H
Benzo[k]fluoranthene	1.05	ND	0.854	82	57-128	H
Bis(2-chloroethyl)ether	1.05	ND	0.671	64	59-130	H
Bis(2-ethylhexyl) phthalate	1.05	0.16 J	0.839 J	65	14-155	H
Butylbenzylphthalate	1.05	ND	0.617 J	59	10-120	H
Chrysene	1.05	ND	0.879	84	55-123	H
Dibenz(a,h)anthracene	1.05	ND	0.664	63	50-121	H
Dibenzofuran	1.05	ND	0.657	63	48-124	H
Diethylphthalate	1.05	ND	0.745 J	71	38-120	H
Dimethylphthalate	1.05	ND	0.396 J	38	10-121	H
Di-n-butyl phthalate	1.05	2.5	2.50	3	46-125	H F1
Di-n-octyl phthalate	1.05	ND	0.631 J	60	22-130	H
Fluoranthene	1.05	ND	0.823	79	61-123	H
Fluorene	1.05	ND	0.701	67	55-120	H
Hexachlorobenzene	1.05	ND	0.702	67	20-120	H
Indeno[1,2,3-cd]pyrene	1.05	ND	0.638	61	47-143	H
Naphthalene	1.05	ND	0.549	52	20-120	H
N-Nitrosodimethylamine	1.05	ND	0.478	46	37-120	H
Phenanthrene	1.05	ND	0.791	76	59-120	H
Pyrene	1.05	ND	0.856	82	46-122	H

Column to be used to flag recovery and RPD values

FORM III 8270D SIM

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-106360-1

SDG No.:

Matrix: Water Level: Low Lab File ID: NK1414a.D

Lab ID: 410-106360-3 MSD Client ID: FBW001-MSD_112022 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,4-Dioxane	1.01	0.500	49	3	30	23-120	
1-Methylnaphthalene	1.01	0.809	80	5	30	23-124	
2-Methylnaphthalene	1.01	0.729	72	2	30	20-133	
Acenaphthene	1.01	0.817	80	1	30	42-120	
Acenaphthylene	1.01	0.811	80	3	30	49-120	
Anthracene	1.01	0.881	85	5	30	54-121	
Benzo[a]anthracene	1.01	0.891	86	0	30	61-122	
Benzo[a]pyrene	1.01	0.847	82	1	30	60-120	
Benzo[b]fluoranthene	1.01	0.817	79	7	30	58-122	
Benzo[g,h,i]perylene	1.01	0.753	73	1	30	50-120	
Benzo[k]fluoranthene	1.01	0.911	89	0	30	57-128	
Bis(2-chloroethyl)ether	1.01	0.942	93	2	30	59-130	
Bis(2-ethylhexyl) phthalate	1.01	1.12	97	0	30	14-155	
Butylbenzylphthalate	1.01	0.952 J	94	5	30	10-120	
Chrysene	1.01	0.926	90	5	30	55-123	
Dibenz(a,h)anthracene	1.01	0.619	61	7	30	50-121	
Dibenzofuran	1.01	0.819	80	8	30	48-124	
Diethylphthalate	1.01	0.959 J	95	12	30	38-120	
Dimethylphthalate	1.01	0.912 J	90	4	30	10-121	
Di-n-butyl phthalate	1.01	1.91	129	10	30	46-125	F1
Di-n-octyl phthalate	1.01	0.858 J	85	14	30	22-130	
Fluoranthene	1.01	0.801	77	9	30	61-123	
Fluorene	1.01	0.819	80	8	30	55-120	
Hexachlorobenzene	1.01	0.952	94	4	30	20-120	
Indeno[1,2,3-cd]pyrene	1.01	0.676	67	3	30	47-143	
Naphthalene	1.01	0.790	78	7	30	20-120	
N-Nitrosodimethylamine	1.01	0.786	77	10	30	37-120	
Phenanthrene	1.01	0.886	87	4	30	59-120	
Pyrene	1.01	0.941	91	3	30	46-122	

Column to be used to flag recovery and RPD values

FORM III 8270D SIM

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-106360-1

SDG No.:

Matrix: Water Level: Low Lab File ID: NL0179.D

Lab ID: 410-106360-3 MSD RE Client ID: FBW001-MSD_112022 MSD RE

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,4-Dioxane	1.06	0.252 J	24	24	30	23-120	H
1-Methylnaphthalene	1.06	0.550	52	1	30	23-124	H
2-Methylnaphthalene	1.06	0.478	45	0	30	20-133	H
Acenaphthene	1.06	0.584	55	2	30	42-120	H
Acenaphthylene	1.06	0.576	54	2	30	49-120	H
Anthracene	1.06	0.758	71	7	30	54-121	H
Benzo[a]anthracene	1.06	0.862	81	2	30	61-122	H
Benzo[a]pyrene	1.06	0.850	80	4	30	60-120	H
Benzo[b]fluoranthene	1.06	0.831	78	4	30	58-122	H
Benzo[g,h,i]perylene	1.06	0.681	64	3	30	50-120	H
Benzo[k]fluoranthene	1.06	0.882	83	3	30	57-128	H
Bis(2-chloroethyl)ether	1.06	0.613	58	9	30	59-130	H F1
Bis(2-ethylhexyl) phthalate	1.06	0.826 J	63	2	30	14-155	H
Butylbenzylphthalate	1.06	0.463 J	44	29	30	10-120	H
Chrysene	1.06	0.886	83	1	30	55-123	H
Dibenz(a,h)anthracene	1.06	0.660	62	1	30	50-121	H
Dibenzofuran	1.06	0.630	59	4	30	48-124	H
Diethylphthalate	1.06	0.670 J	63	11	30	38-120	H
Dimethylphthalate	1.06	0.297 J	28	29	30	10-121	H
Di-n-butyl phthalate	1.06	2.72	24	9	30	46-125	H F1
Di-n-octyl phthalate	1.06	0.634 J	60	0	30	22-130	H
Fluoranthene	1.06	0.800	75	3	30	61-123	H
Fluorene	1.06	0.655	62	7	30	55-120	H
Hexachlorobenzene	1.06	0.667	63	5	30	20-120	H
Indeno[1,2,3-cd]pyrene	1.06	0.634	60	1	30	47-143	H
Naphthalene	1.06	0.510	48	8	30	20-120	H
N-Nitrosodimethylamine	1.06	0.406	38	16	30	37-120	H
Phenanthrene	1.06	0.742	70	6	30	59-120	H
Pyrene	1.06	0.915	86	7	30	46-122	H

Column to be used to flag recovery and RPD values

FORM III 8270D SIM

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-106360-1

SDG No.:

Lab File ID: NK1402.D Lab Sample ID: MB 410-320750/1-A

Matrix: Water Date Extracted: 11/23/2022 17:30

Instrument ID: HP23263 Date Analyzed: 11/30/2022 06:03

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-320750/2-A	NK1403.D	11/30/2022 06:25
	LCSD 410-320750/3-A	NK1404.D	11/30/2022 06:46
FBW001_112022	410-106360-3	NK1412.D	11/30/2022 09:38
FBW001-MS_112022 MS	410-106360-3 MS	NK1413.D	11/30/2022 09:59
FBW001-MSD_112022 MSD	410-106360-3 MSD	NK1414a.D	11/30/2022 15:11
FBS010_112022	410-106360-1	NK1415.D	11/30/2022 15:32
DUP-01_112022	410-106360-2	NK1416.D	11/30/2022 15:54
FBW001_FB_112022	410-106360-4	NK1417.D	11/30/2022 16:15
FBW001_112022 RA	410-106360-3 RA	ML0012.D	12/01/2022 06:22
FBS010_112022 RA	410-106360-1 RA	ML0015.D	12/01/2022 07:26
DUP-01_112022 RA	410-106360-2 RA	ML0016.D	12/01/2022 07:47
FBW001_FB_112022 RA	410-106360-4 RA	ML0017.D	12/01/2022 08:08

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-106360-1

SDG No.:

Lab File ID: NL0164.D Lab Sample ID: MB 410-323309/1-A

Matrix: Water Date Extracted: 12/03/2022 03:22

Instrument ID: HP23263 Date Analyzed: 12/05/2022 06:30

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-323309/2-A	NL0165.D	12/05/2022 06:51
	LCSD 410-323309/3-A	NL0166.D	12/05/2022 07:13
FBS010_112022 RE	410-106360-1 RE	NL0175.D	12/05/2022 10:27
DUP-01_112022 RE	410-106360-2 RE	NL0176.D	12/05/2022 10:49
FBW001_112022 RE	410-106360-3 RE	NL0177.D	12/05/2022 11:11
FBW001-MS_112022 MS RE	410-106360-3 MS RE	NL0178.D	12/05/2022 11:32
FBW001-MSD_112022 MSD RE	410-106360-3 MSD RE	NL0179.D	12/05/2022 11:54
FBW001_FB_112022 RE	410-106360-4 RE	NL0180.D	12/05/2022 12:16

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-106360-1

SDG No.:

Lab File ID: MG1350.D DFTPP Injection Date: 07/28/2022

Instrument ID: HP21585 DFTPP Injection Time: 18:23

Analysis Batch No.: 280637

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	51.6	
68	Less than 2% of mass 69	0.9	(1.5) 1
69	Mass 69 Relative abundance	57.7	
70	Less than 2% of mass 69	0.4	(0.6) 1
127	10-80% of Base Peak	50.8	
197	Less than 2% of mass 198	0.7	
198	Base peak	100.0	
199	5-9% of mass 198	6.7	
275	10-60% of Base Peak	26.4	
365	Greater than 1% of mass 198	3.2	
441	present but less than 24% of mass 442	11.4	(15.8) 2
442	Greater than 50% of mass 198	71.9	
443	15-24% of mass 442	14.1	(19.7) 2

1-Value is % mass 69 2-Value is % mass 442

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
	ICIS 410-280637/2	MG1351b.D	07/28/2022	19:23
	IC 410-280637/3	MG1352.D	07/28/2022	20:06
	IC 410-280637/4	MG1353.D	07/28/2022	20:27
	IC 410-280637/5	MG1354.D	07/28/2022	20:49
	IC 410-280637/6	MG1355.D	07/28/2022	21:10
	IC 410-280637/7	MG1356.D	07/28/2022	21:32
	ICV 410-280637/9	MG1358.D	07/28/2022	22:14

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-106360-1

SDG No.:

Lab File ID: ML0010.D DFTPP Injection Date: 12/01/2022

Instrument ID: HP21585 DFTPP Injection Time: 05:31

Analysis Batch No.: 322405

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	17.0	
68	Less than 2% of mass 69	0.4	(2.0) 1
69	Mass 69 Relative abundance	19.4	
70	Less than 2% of mass 69	0.1	(0.6) 1
127	10-80% of Base Peak	35.9	
197	Less than 2% of mass 198	0.0	
198	Base peak	100.0	
199	5-9% of mass 198	6.8	
275	10-60% of Base Peak	33.9	
365	Greater than 1% of mass 198	4.1	
441	present but less than 24% of mass 442	23.8	(14.9) 2
442	Greater than 50% of mass 198	159.3	
443	15-24% of mass 442	30.7	(19.3) 2

1-Value is % mass 69 2-Value is % mass 442

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 410-322405/2	ML0011.D	12/01/2022	5:47
FBW001_112022 RA	410-106360-3 RA	ML0012.D	12/01/2022	6:22
FBS010_112022 RA	410-106360-1 RA	ML0015.D	12/01/2022	7:26
DUP-01_112022 RA	410-106360-2 RA	ML0016.D	12/01/2022	7:47
FBW001_FB_112022 RA	410-106360-4 RA	ML0017.D	12/01/2022	8:08

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-106360-1

SDG No.:

Lab File ID: NJ0020.D DFTPP Injection Date: 10/05/2022

Instrument ID: HP23263 DFTPP Injection Time: 09:35

Analysis Batch No.: 303206

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	50.4	
68	Less than 2% of mass 69	0.0	(0.0) 1
69	Mass 69 Relative abundance	54.7	
70	Less than 2% of mass 69	0.2	(0.4) 1
127	10-80% of Base Peak	54.1	
197	Less than 2% of mass 198	0.0	
198	Base peak	100.0	
199	5-9% of mass 198	6.8	
275	10-60% of Base Peak	29.1	
365	Greater than 1% of mass 198	3.9	
441	present but less than 24% of mass 442	15.7	(16.6) 2
442	Greater than 50% of mass 198	94.2	
443	15-24% of mass 442	18.2	(19.3) 2

1-Value is % mass 69 2-Value is % mass 442

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
	ICIS 410-303206/2	NJ0021.D	10/05/2022	9:51
	IC 410-303206/3	NJ0022.D	10/05/2022	10:15
	IC 410-303206/4	NJ0023.D	10/05/2022	10:37
	IC 410-303206/5	NJ0024.D	10/05/2022	10:59
	IC 410-303206/6	NJ0025.D	10/05/2022	11:20
	IC 410-303206/7	NJ0026.D	10/05/2022	11:42
	ICV 410-303206/9	NJ0028.D	10/05/2022	12:25

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-106360-1

SDG No.:

Lab File ID: NK1400.D DFTPP Injection Date: 11/30/2022

Instrument ID: HP23263 DFTPP Injection Time: 05:12

Analysis Batch No.: 321961

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	57.1	
68	Less than 2% of mass 69	0.4	(0.6) 1
69	Mass 69 Relative abundance	61.2	
70	Less than 2% of mass 69	0.2	(0.4) 1
127	10-80% of Base Peak	57.6	
197	Less than 2% of mass 198	0.0	
198	Base peak	100.0	
199	5-9% of mass 198	6.7	
275	10-60% of Base Peak	26.3	
365	Greater than 1% of mass 198	3.1	
441	present but less than 24% of mass 442	11.0	(16.5) 2
442	Greater than 50% of mass 198	66.4	
443	15-24% of mass 442	12.9	(19.4) 2

1-Value is % mass 69 2-Value is % mass 442

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 410-321961/2	NK1401.D	11/30/2022	5:33
	MB 410-320750/1-A	NK1402.D	11/30/2022	6:03
	LCS 410-320750/2-A	NK1403.D	11/30/2022	6:25
	LCSD 410-320750/3-A	NK1404.D	11/30/2022	6:46
FBW001_112022	410-106360-3	NK1412.D	11/30/2022	9:38
FBW001-MS_112022 MS	410-106360-3 MS	NK1413.D	11/30/2022	9:59
FBW001-MSD_112022 MSD	410-106360-3 MSD	NK1414a.D	11/30/2022	15:11
FBS010_112022	410-106360-1	NK1415.D	11/30/2022	15:32
DUP-01_112022	410-106360-2	NK1416.D	11/30/2022	15:54
FBW001_FB_112022	410-106360-4	NK1417.D	11/30/2022	16:15

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-106360-1

SDG No.:

Lab File ID: NL0160.D DFTPP Injection Date: 12/05/2022

Instrument ID: HP23263 DFTPP Injection Time: 05:04

Analysis Batch No.: 323522

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	52.0	
68	Less than 2% of mass 69	0.1	(0.1) 1
69	Mass 69 Relative abundance	57.9	
70	Less than 2% of mass 69	0.2	(0.4) 1
127	10-80% of Base Peak	55.7	
197	Less than 2% of mass 198	0.0	
198	Base peak	100.0	
199	5-9% of mass 198	6.8	
275	10-60% of Base Peak	28.6	
365	Greater than 1% of mass 198	3.7	
441	present but less than 24% of mass 442	13.7	(16.6) 2
442	Greater than 50% of mass 198	82.5	
443	15-24% of mass 442	16.1	(19.6) 2

1-Value is % mass 69 2-Value is % mass 442

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 410-323522/2	NL0161.D	12/05/2022	5:19
	MB 410-323309/1-A	NL0164.D	12/05/2022	6:30
	LCS 410-323309/2-A	NL0165.D	12/05/2022	6:51
	LCSD 410-323309/3-A	NL0166.D	12/05/2022	7:13
FBS010_112022 RE	410-106360-1 RE	NL0175.D	12/05/2022	10:27
DUP-01_112022 RE	410-106360-2 RE	NL0176.D	12/05/2022	10:49
FBW001_112022 RE	410-106360-3 RE	NL0177.D	12/05/2022	11:11
FBW001-MS_112022 MS RE	410-106360-3 MS RE	NL0178.D	12/05/2022	11:32
FBW001-MSD_112022 MSD RE	410-106360-3 MSD RE	NL0179.D	12/05/2022	11:54
FBW001_FB_112022 RE	410-106360-4 RE	NL0180.D	12/05/2022	12:16

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-106360-1

SDG No.:

Sample No.: ICIS 410-280637/2 Date Analyzed: 07/28/2022 19:23

Instrument ID: HP21585 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): MG1351b.D Heated Purge: (Y/N) N

Calibration ID: 41344

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		62721	4.57	222361	5.76	120364	7.42
UPPER LIMIT		125442	5.07	444722	6.26	240728	7.92
LOWER LIMIT		31361	4.07	111181	5.26	60182	6.92
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-280637/9		71756	4.58	251024	5.75	136033	7.42
CCVIS 410-322405/2		58934	4.37	193112	5.57	113501	7.24

DCBd4 = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

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 8270D SIM

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-106360-1

SDG No.:

Sample No.: ICIS 410-280637/2 Date Analyzed: 07/28/2022 19:23

Instrument ID: HP21585 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): MG1351b.D Heated Purge: (Y/N) N

Calibration ID: 41344

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		218059	8.83	186396	11.50	183007	13.47
UPPER LIMIT		436118	9.33	372792	12.00	366014	13.97
LOWER LIMIT		109030	8.33	93198	11.00	91504	12.97
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-280637/9		243385	8.82	198451	11.50	177699	13.46
CCVIS 410-322405/2		215573	8.65	212843	11.27	192413	13.15

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

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 8270D SIM

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-106360-1

SDG No.:

Sample No.: CCVIS 410-322405/2 Date Analyzed: 12/01/2022 05:47

Instrument ID: HP21585 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): ML0011.D Heated Purge: (Y/N) N

Calibration ID: 41344

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		58934	4.37	193112	5.57	113501	7.24
UPPER LIMIT		117868	4.87	386224	6.07	227002	7.74
LOWER LIMIT		29467	3.87	96556	5.07	56751	6.74
LAB SAMPLE ID	CLIENT SAMPLE ID						
410-106360-3 RA	FBW001_112022 RA	68955	4.37	222928	5.57	130850	7.24
410-106360-1 RA	FBS010_112022 RA	55819	4.37	184567	5.57	105925	7.24
410-106360-2 RA	DUP-01_112022 RA	57714	4.37	182323	5.57	105156	7.24
410-106360-4 RA	FBW001_FB_112022 RA	56490	4.37	183993	5.57	105930	7.24

DCBd4 = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

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 8270D SIM

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-106360-1

SDG No.:

Sample No.: CCVIS 410-322405/2 Date Analyzed: 12/01/2022 05:47

Instrument ID: HP21585 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): ML0011.D Heated Purge: (Y/N) N

Calibration ID: 41344

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		215573	8.65	212843	11.27	192413	13.15
UPPER LIMIT		431146	9.15	425686	11.77	384826	13.65
LOWER LIMIT		107787	8.15	106422	10.77	96207	12.65
LAB SAMPLE ID	CLIENT SAMPLE ID						
410-106360-3 RA	FBW001_112022 RA	257248	8.65	231264	11.27	197422	13.15
410-106360-1 RA	FBS010_112022 RA	207345	8.65	182414	11.27	150028	13.15
410-106360-2 RA	DUP-01_112022 RA	203025	8.65	189160	11.27	173343	13.15
410-106360-4 RA	FBW001_FB_112022 RA	201794	8.65	178707	11.27	151120	13.15

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

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 8270D SIM

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-106360-1

SDG No.:

Sample No.: ICIS 410-303206/2 Date Analyzed: 10/05/2022 09:51

Instrument ID: HP23263 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): NJ0021.D Heated Purge: (Y/N) N

Calibration ID: 42802

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		36901	4.63	132746	5.82	54857	7.48
UPPER LIMIT		73802	5.13	265492	6.32	109714	7.98
LOWER LIMIT		18451	4.13	66373	5.32	27429	6.98
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-303206/9		30798	4.63	104279	5.82	46689	7.48
CCVIS 410-321961/2		47043	4.57	162817	5.77	67497	7.44
CCVIS 410-323522/2		47507	4.56	177797	5.77	66140	7.44

DCBd4 = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

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 8270D SIM

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-106360-1

SDG No.:

Sample No.: ICIS 410-303206/2 Date Analyzed: 10/05/2022 09:51

Instrument ID: HP23263 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): NJ0021.D Heated Purge: (Y/N) N

Calibration ID: 42802

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		89839	8.89	53880	11.58	47679	13.58
UPPER LIMIT		179678	9.39	107760	12.08	95358	14.08
LOWER LIMIT		44920	8.39	26940	11.08	23840	13.08
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-303206/9		73944	8.89	43078	11.58	35344	13.58
CCVIS 410-321961/2		94259	8.85	50627	11.52	53181	13.48
CCVIS 410-323522/2		103517	8.85	51640	11.51	48308	13.48

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

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 8270D SIM

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-106360-1

SDG No.:

Sample No.: CCVIS 410-321961/2 Date Analyzed: 11/30/2022 05:33

Instrument ID: HP23263 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): NK1401.D Heated Purge: (Y/N) N

Calibration ID: 42802

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		47043	4.57	162817	5.77	67497	7.44
UPPER LIMIT		94086	5.07	325634	6.27	134994	7.94
LOWER LIMIT		23522	4.07	81409	5.27	33749	6.94
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 410-320750/1-A		41105	4.57	139455	5.77	58293	7.44
LCS 410-320750/2-A		39400	4.57	141932	5.77	56777	7.44
LCSD 410-320750/3-A		39036	4.57	144269	5.77	61031	7.44
410-106360-3	FBW001_112022	47513	4.57	154789	5.77	70960	7.44
410-106360-3 MS	FBW001-MS_112022 MS	36990	4.57	129008	5.77	54284	7.44
410-106360-3 MSD	FBW001-MSD_112022 MSD	40677	4.57	150251	5.78	60625	7.45
410-106360-1	FBS010_112022	38575	4.57	129960	5.78	54337	7.45
410-106360-2	DUP-01_112022	39445	4.57	128792	5.78	57443	7.45
410-106360-4	FBW001_FB_112022	39711	4.57	128463	5.78	54022	7.45

DCBd4 = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

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 8270D SIM

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-106360-1

SDG No.:

Sample No.: CCVIS 410-321961/2 Date Analyzed: 11/30/2022 05:33

Instrument ID: HP23263 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): NK1401.D Heated Purge: (Y/N) N

Calibration ID: 42802

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		94259	8.85	50627	11.52	53181	13.48
UPPER LIMIT		188518	9.35	101254	12.02	106362	13.98
LOWER LIMIT		47130	8.35	25314	11.02	26591	12.98
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 410-320750/1-A		78666	8.85	42552	11.52	40806	13.48
LCS 410-320750/2-A		76918	8.85	41833	11.52	39836	13.48
LCSD 410-320750/3-A		80822	8.85	41866	11.52	39501	13.48
410-106360-3	FBW001_112022	103006	8.86	54155	11.52	45498	13.48
410-106360-3 MS	FBW001-MS_112022 MS	81488	8.85	46656	11.52	39566	13.48
410-106360-3 MSD	FBW001-MSD_112022 MSD	83735	8.86	42942	11.53	39104	13.49
410-106360-1	FBS010_112022	79517	8.86	41427	11.52	34970	13.49
410-106360-2	DUP-01_112022	76594	8.86	40613	11.52	35726	13.49
410-106360-4	FBW001_FB_112022	72665	8.86	37833	11.52	34688	13.49

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

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 8270D SIM

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-106360-1

SDG No.:

Sample No.: CCVIS 410-323522/2 Date Analyzed: 12/05/2022 05:19

Instrument ID: HP23263 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): NL0161.D Heated Purge: (Y/N) N

Calibration ID: 42802

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		47507	4.56	177797	5.77	66140	7.44
UPPER LIMIT		95014	5.06	355594	6.27	132280	7.94
LOWER LIMIT		23754	4.06	88899	5.27	33070	6.94
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 410-323309/1-A		40792	4.56	135599	5.77	56261	7.44
LCS 410-323309/2-A		39377	4.56	138135	5.77	52916	7.44
LCSD 410-323309/3-A		39030	4.56	137710	5.77	52184	7.44
410-106360-1 RE	FBS010_112022 RE	39155	4.56	129309	5.77	52059	7.44
410-106360-2 RE	DUP-01_112022 RE	40822	4.56	136812	5.77	55268	7.44
410-106360-3 RE	FBW001_112022 RE	40636	4.56	131830	5.77	53701	7.44
410-106360-3 MS RE	FBW001-MS_112022 MS RE	38353	4.56	135191	5.77	54300	7.44
410-106360-3 MSD RE	FBW001-MSD_112022 MSD RE	40225	4.56	136663	5.77	54710	7.44
410-106360-4 RE	FBW001_FB_112022 RE	42329	4.56	141551	5.77	58413	7.44

DCBd4 = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

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 8270D SIM

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-106360-1

SDG No.:

Sample No.: CCVIS 410-323522/2 Date Analyzed: 12/05/2022 05:19

Instrument ID: HP23263 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): NL0161.D Heated Purge: (Y/N) N

Calibration ID: 42802

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		103517	8.85	51640	11.51	48308	13.48
UPPER LIMIT		207034	9.35	103280	12.01	96616	13.98
LOWER LIMIT		51759	8.35	25820	11.01	24154	12.98
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 410-323309/1-A		83655	8.85	43669	11.52	39915	13.47
LCS 410-323309/2-A		80263	8.85	43433	11.52	38519	13.47
LCSD 410-323309/3-A		83213	8.85	47595	11.52	43521	13.47
410-106360-1 RE	FBS010_112022 RE	73884	8.85	43335	11.51	41274	13.48
410-106360-2 RE	DUP-01_112022 RE	82937	8.85	47682	11.52	45158	13.47
410-106360-3 RE	FBW001_112022 RE	81431	8.85	40677	11.52	37264	13.47
410-106360-3 MS RE	FBW001-MS_112022 MS RE	83288	8.85	47751	11.51	43984	13.48
410-106360-3 MSD RE	FBW001-MSD_112022 MSD RE	85385	8.85	46932	11.51	41976	13.48
410-106360-4 RE	FBW001_FB_112022 RE	88855	8.85	48629	11.52	43052	13.47

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

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 8270D SIM

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-106360-1

SDG No.:

Client Sample ID: FBS010_112022
Lab Sample ID: 410-106360-1

Matrix: Water
Lab File ID: NK1415.D

Analysis Method: 8270D SIM
Date Collected: 11/17/2022 10:33

Extract. Method: 3510C
Date Extracted: 11/23/2022 17:30

Sample wt/vol: 235.5(mL)
Date Analyzed: 11/30/2022 15:32

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 321961
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.32	0.11
90-12-0	1-Methylnaphthalene	ND		0.053	0.021
91-57-6	2-Methylnaphthalene	ND		0.053	0.021
83-32-9	Acenaphthene	ND		0.053	0.011
208-96-8	Acenaphthylene	ND		0.053	0.011
120-12-7	Anthracene	ND		0.053	0.011
56-55-3	Benzo[a]anthracene	ND		0.053	0.011
50-32-8	Benzo[a]pyrene	ND		0.053	0.011
205-99-2	Benzo[b]fluoranthene	ND		0.053	0.011
191-24-2	Benzo[g,h,i]perylene	ND		0.053	0.011
207-08-9	Benzo[k]fluoranthene	ND		0.053	0.011
111-44-4	Bis(2-chloroethyl)ether	ND		0.053	0.021
85-68-7	Butylbenzylphthalate	ND	cn	1.1	0.053
218-01-9	Chrysene	ND		0.053	0.011
53-70-3	Dibenz(a,h)anthracene	ND		0.053	0.021
132-64-9	Dibenzofuran	ND		0.053	0.011
84-66-2	Diethylphthalate	ND		1.1	0.053
131-11-3	Dimethylphthalate	ND		1.1	0.053
84-74-2	Di-n-butyl phthalate	0.98	J *+ B *1 cn	1.1	0.053
117-84-0	Di-n-octyl phthalate	ND		1.1	0.053
206-44-0	Fluoranthene	0.030	J	0.053	0.011
86-73-7	Fluorene	ND		0.053	0.011
118-74-1	Hexachlorobenzene	ND		0.053	0.021
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.053	0.021
91-20-3	Naphthalene	ND		0.074	0.032
62-75-9	N-Nitrosodimethylamine	ND		0.053	0.021
85-01-8	Phenanthrene	ND		0.074	0.032
129-00-0	Pyrene	0.022	J	0.053	0.011

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-106360-1

SDG No.:

Client Sample ID: FBS010_112022 Lab Sample ID: 410-106360-1

Matrix: Water Lab File ID: NK1415.D

Analysis Method: 8270D SIM Date Collected: 11/17/2022 10:33

Extract. Method: 3510C Date Extracted: 11/23/2022 17:30

Sample wt/vol: 235.5(mL) Date Analyzed: 11/30/2022 15:32

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor: Level: (low/med) Low

Analysis Batch No.: 321961 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
38072-94-5	1-Methylnaphthalene-d10 (Surr)	78		36-111
63466-71-7	Benzo(a)pyrene-d12 (Surr)	73		10-110
93951-69-0	Fluoranthene-d10 (Surr)	71		47-128

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1415.D
Lims ID: 410-106360-B-1-A
Client ID: FBS010_112022
Sample Type: Client
Inject. Date: 30-Nov-2022 15:32:30 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-106360-B-1-A
Misc. Info.: 410-0072166-016
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 01-Dec-2022 04:31:08 Calib Date: 05-Oct-2022 11:42:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0026.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: UJM0 Date: 01-Dec-2022 04:27:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
3 Bis(2-chloroethyl)ether	93	4.293	4.306	0.000	50	847	0.004598	
* 4 1,4-Dichlorobenzene-d4	152	4.568	4.568	0.000	91	38575	0.2500	
* 5 Naphthalene-d8	136	5.780	5.768	0.012	100	129960	0.2500	
$ 9 1-Methylnaphthalene-d10	152	6.518	6.522	0.010	98	46621	0.1950	
* 13 Acenaphthene-d10	164	7.449	7.439	0.010	96	54337	0.2500	
* 20 Phenanthrene-d10	188	8.857	8.849	0.008	100	79517	0.2500	
21 Phenanthrene	178	8.880	8.880	0.008	96	2118	0.005621	M
22 Anthracene	178	8.934	8.934	0.008	99	281	0.000805	7M
23 Di-n-butyl phthalate	149	9.425	9.427	0.006	100	63400	0.2297	
$ 24 Fluoranthene-d10 (Surr)	212	9.989	10.008	0.000	100	51187	0.1766	
25 Fluoranthene	202	10.008	10.008	0.000	95	2480	0.007109	
26 Pyrene	202	10.227	10.221	0.006	96	1591	0.005142	
* 29 Chrysene-d12	240	11.524	11.517	0.007	82	41427	0.2500	
31 Bis(2-ethylhexyl) phthalate	149	11.578	11.578	0.000	99	3686	0.0394	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.365	13.365	0.000	100	24628	0.1834	
* 38 Perylene-d12	264	13.488	13.480	0.008	96	34970	0.2500	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00032 Amount Added: 10.00 Units: uL Run Reagent

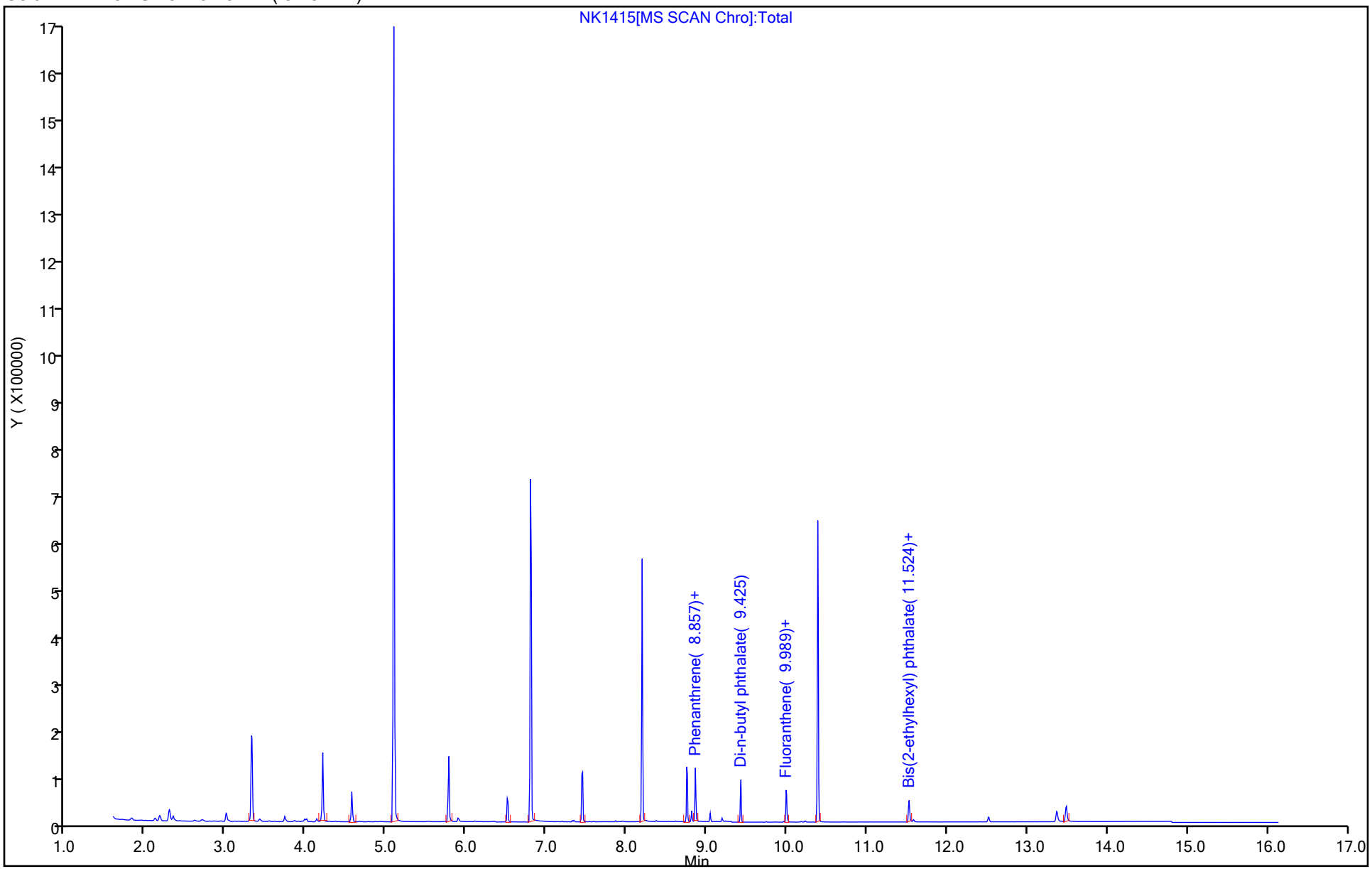
Report Date: 01-Dec-2022 04:31:52 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1415.D

Injection Date:	30-Nov-2022 15:32:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	410-106360-B-1-A	Lab Sample ID:	410-106360-1	Worklist Smp#:	16
Client ID:	FBS010_112022				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1415.D				
Lims ID:	410-106360-B-1-A				
Client ID:	FBS010_112022				
Sample Type:	Client				
Inject. Date:	30-Nov-2022 15:32:30	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-106360-B-1-A				
Misc. Info.:	410-0072166-016				
Operator ID:	jmg00346	Instrument ID:	HP23263		
Method:	\\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\8270_SIM_HP23263.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	01-Dec-2022 04:31:08	Calib Date:	05-Oct-2022 11:42:30		
Integrator:	Falcon	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0026.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1611				

First Level Reviewer: UJM0 Date: 01-Dec-2022 04:27:54

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1-Methylnaphthalene-d10	0.2500	0.1950	78.01
$ 24 Fluoranthene-d10 (Surr)	0.2500	0.1766	70.63
$ 36 Benzo(a)pyrene-d12 (Surr)	0.2500	0.1834	73.37

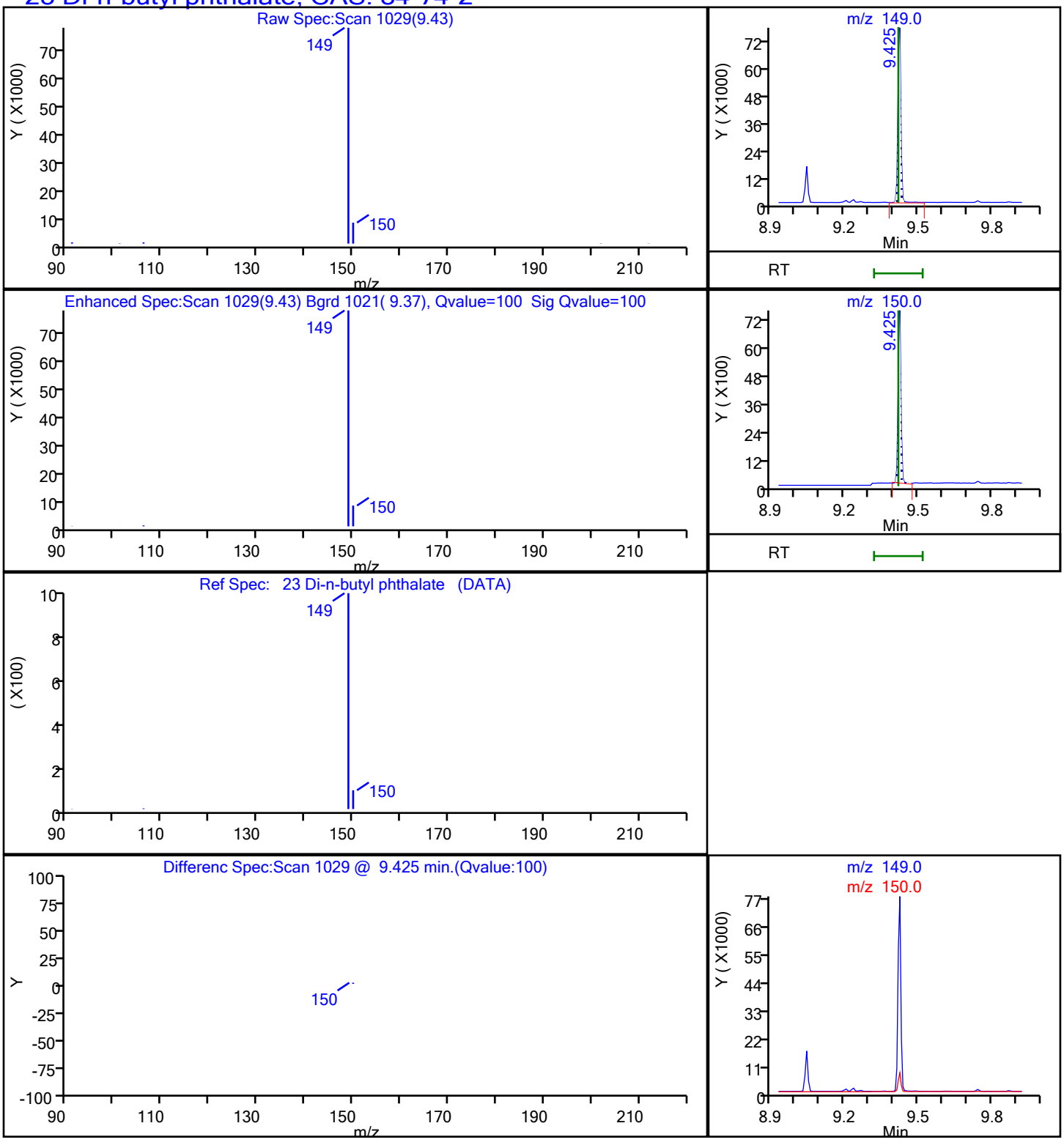
Report Date: 01-Dec-2022 04:31:52 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1415.D

Injection Date:	30-Nov-2022 15:32:30	Instrument ID:	HP23263		
Lims ID:	410-106360-B-1-A	Lab Sample ID:	410-106360-1		
Client ID:	FBS010_112022				
Operator ID:	jmg00346	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

23 Di-n-butyl phthalate, CAS: 84-74-2

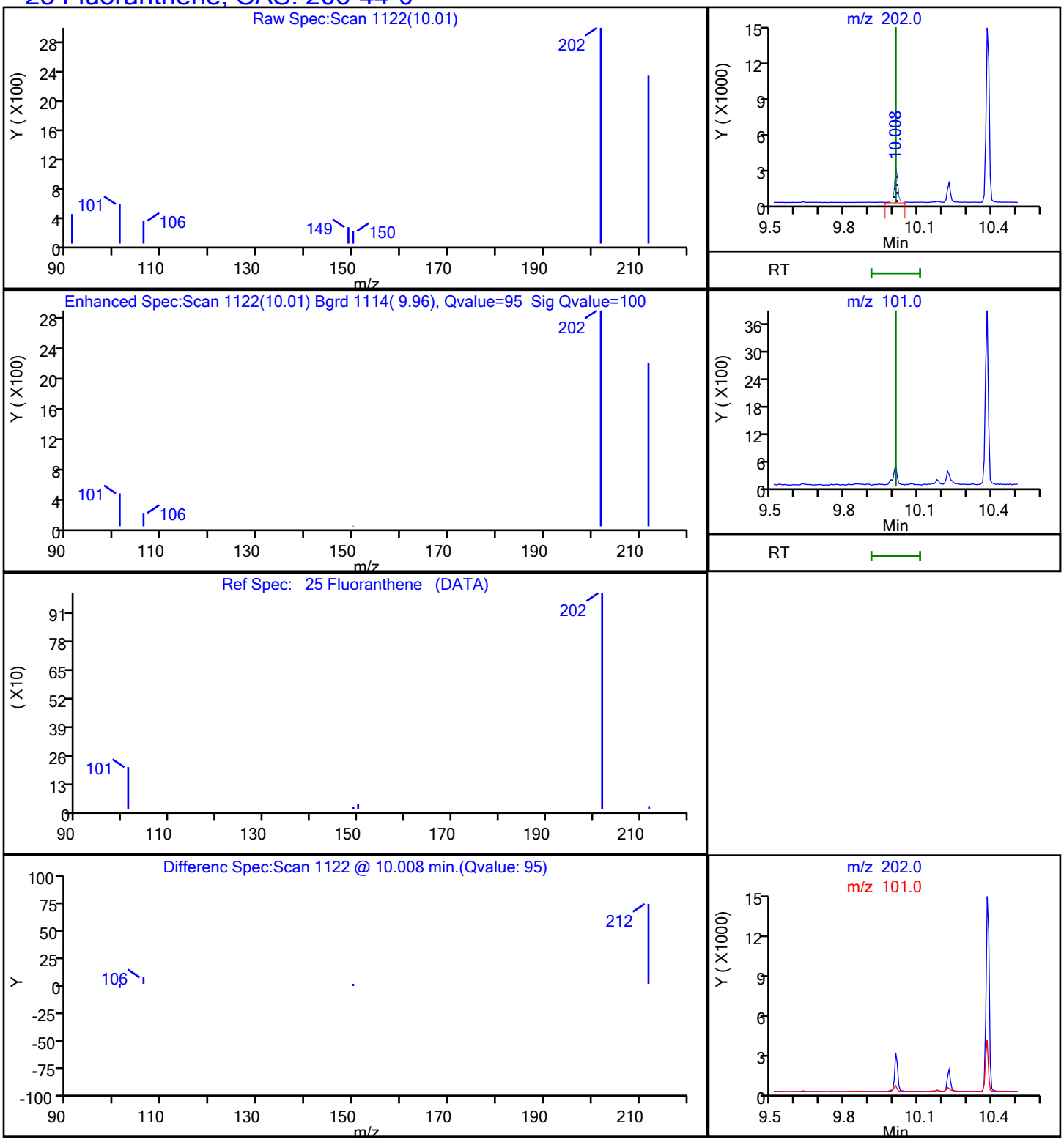


Report Date: 01-Dec-2022 04:31:53 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1415.D				
Injection Date:	30-Nov-2022 15:32:30	Instrument ID:	HP23263		
Lims ID:	410-106360-B-1-A	Lab Sample ID:	410-106360-1		
Client ID:	FBS010_112022				
Operator ID:	jmg00346	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

25 Fluoranthene, CAS: 206-44-0

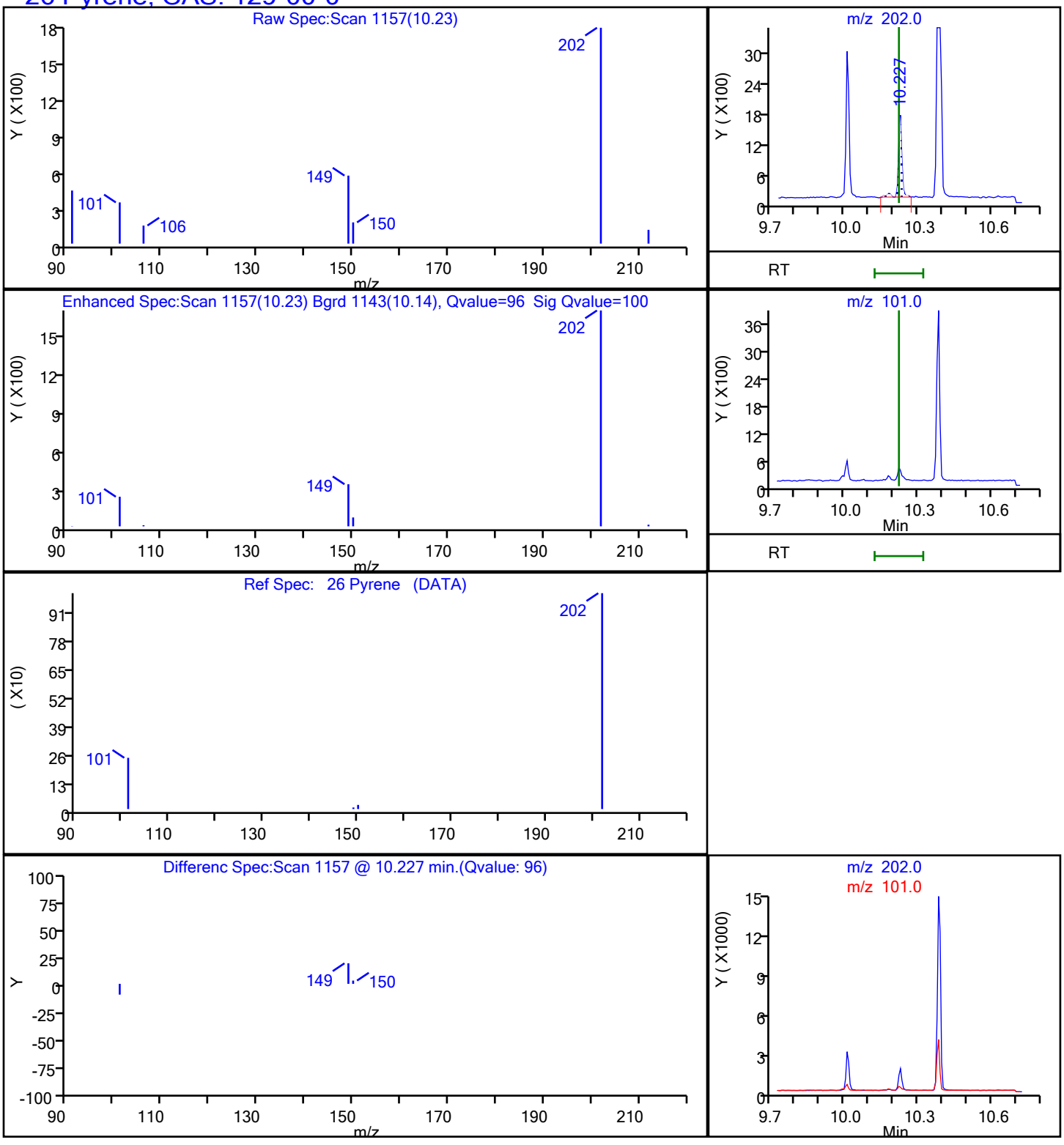


Report Date: 01-Dec-2022 04:31:53 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1415.D				
Injection Date:	30-Nov-2022 15:32:30	Instrument ID:	HP23263		
Lims ID:	410-106360-B-1-A	Lab Sample ID:	410-106360-1		
Client ID:	FBS010_112022				
Operator ID:	jmg00346	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

26 Pyrene, CAS: 129-00-0



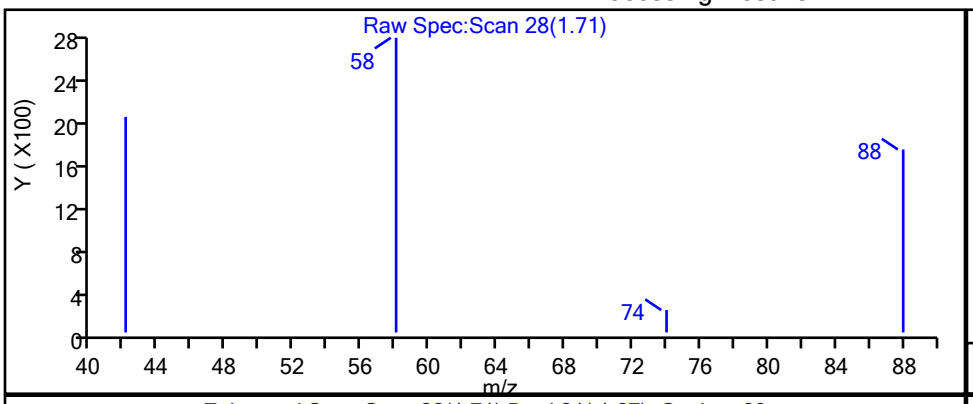
User Disabled Compound Report

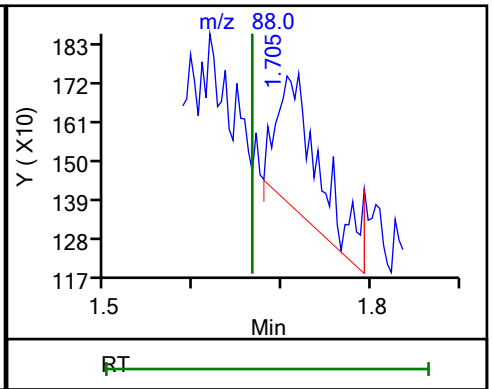
Eurofins Lancaster Laboratories Environment Testing, LLC

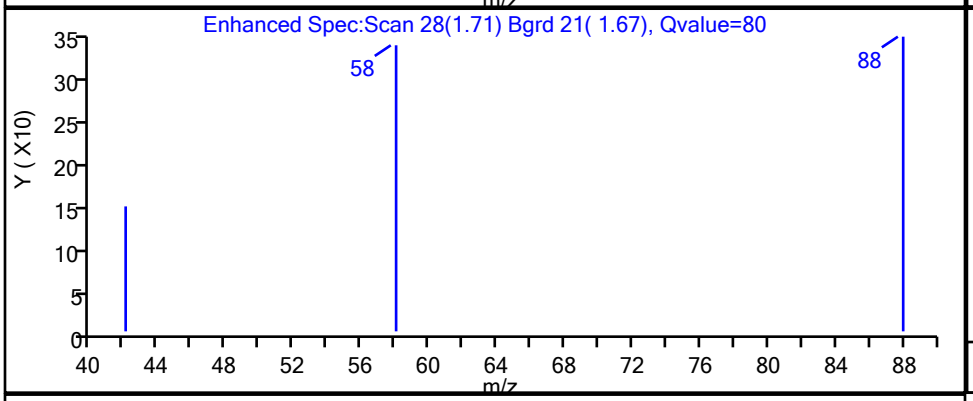
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1415.D				
Injection Date:	30-Nov-2022 15:32:30	Instrument ID:	HP23263		
Lims ID:	410-106360-B-1-A	Lab Sample ID:	410-106360-1		
Client ID:	FBS010_112022				
Operator ID:	jmg00346	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

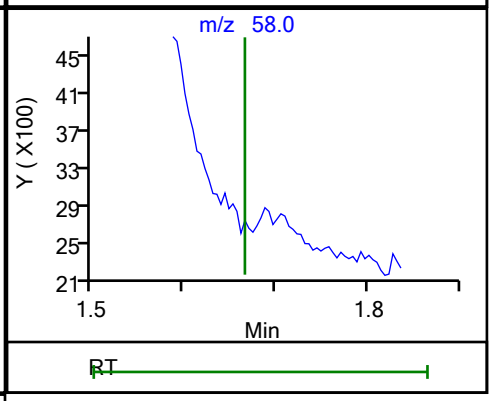
1 1,4-Dioxane, CAS: 123-91-1

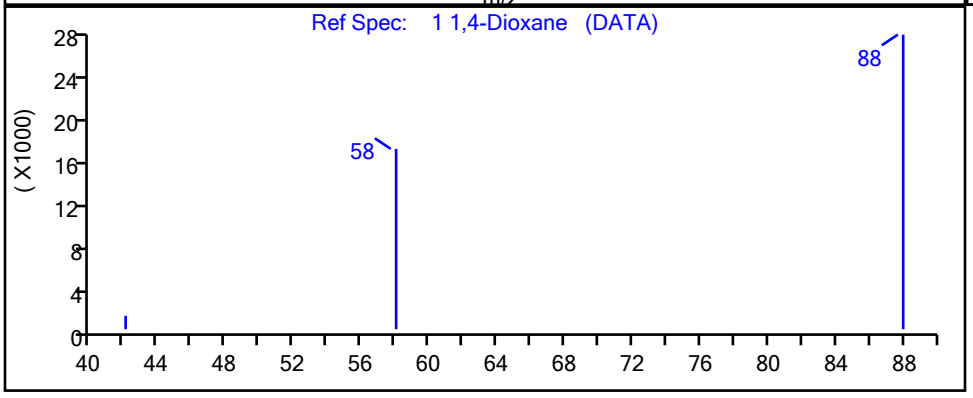
Processing Results











RT	Mass	Response	Amount
1.71	88.00	1243	0.013582
1.67	58.00	0	

Reviewer: UJM0, 01-Dec-2022 04:27:14

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

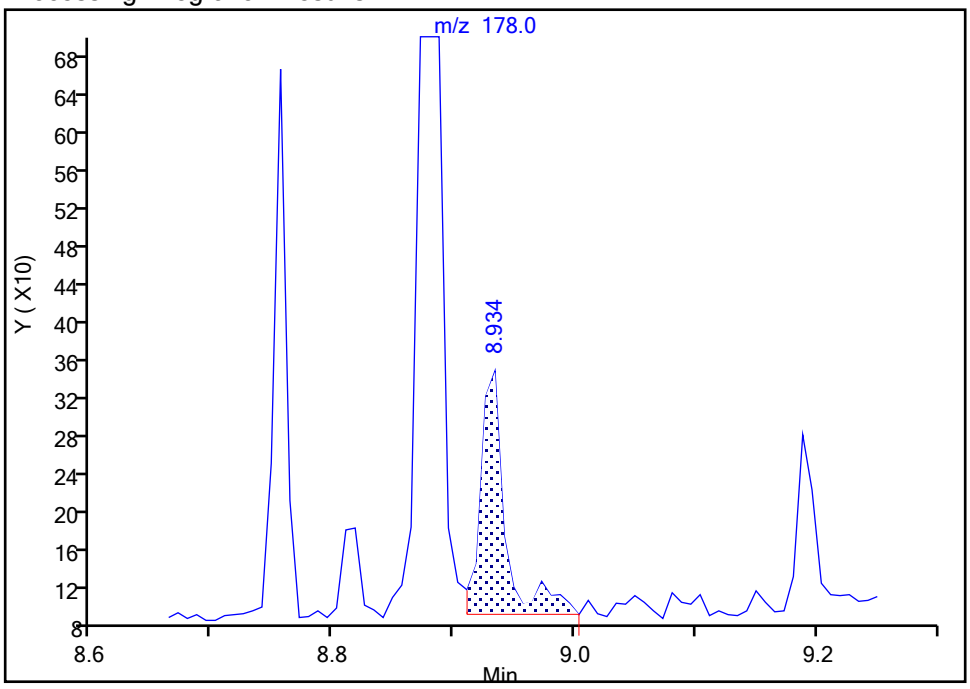
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1415.D		
Injection Date:	30-Nov-2022 15:32:30	Instrument ID:	HP23263
Lims ID:	410-106360-B-1-A	Lab Sample ID:	410-106360-1
Client ID:	FBS010_112022		
Operator ID:	jmg00346	ALS Bottle#:	16 Worklist Smp#: 16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

22 Anthracene, CAS: 120-12-7

Signal: 1

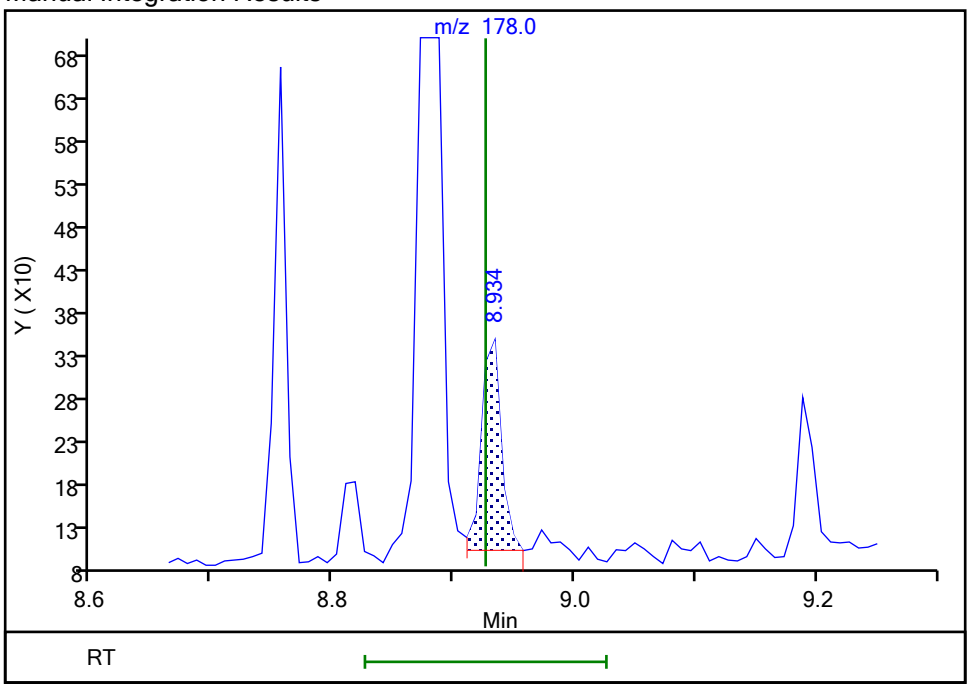
Processing Integration Results

RT: 8.93
Area: 361
Amount: 0.001034
Amount Units: ug/ml



Manual Integration Results

RT: 8.93
Area: 281
Amount: 0.000805
Amount Units: ug/ml



Reviewer: UJM0, 01-Dec-2022 04:27:39
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

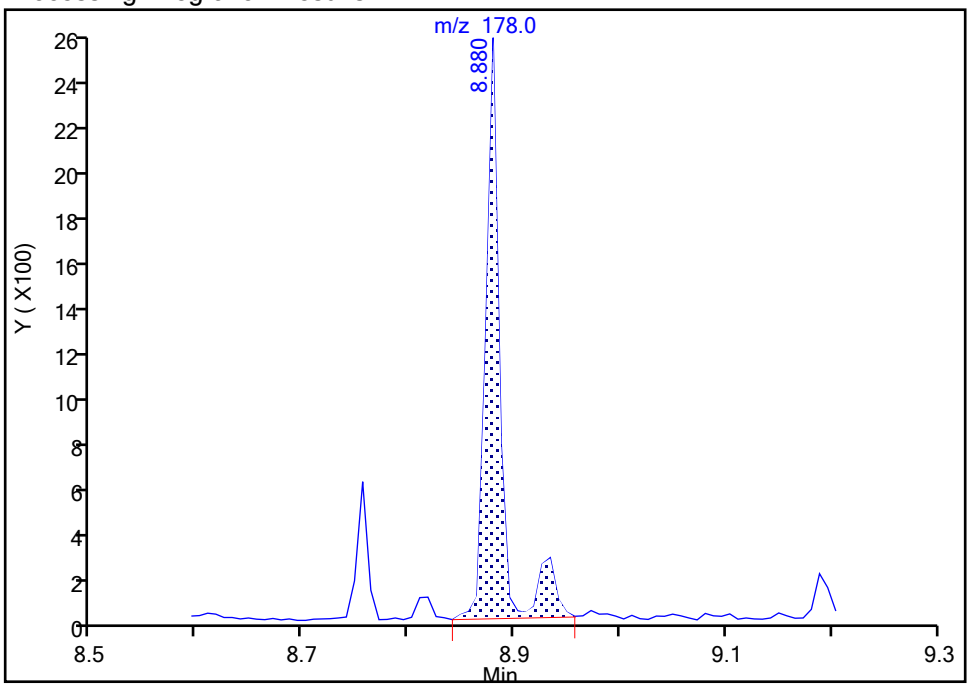
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1415.D				
Injection Date:	30-Nov-2022 15:32:30	Instrument ID:	HP23263		
Lims ID:	410-106360-B-1-A	Lab Sample ID:	410-106360-1		
Client ID:	FBS010_112022				
Operator ID:	jmg00346	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

21 Phenanthrene, CAS: 85-01-8

Signal: 1

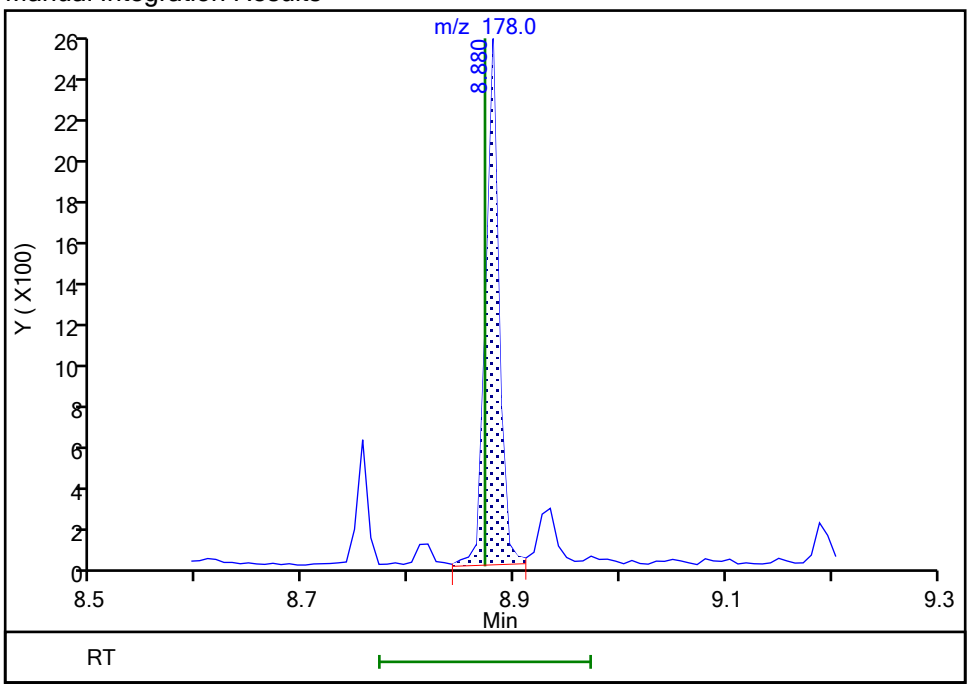
Processing Integration Results

RT: 8.88
Area: 2374
Amount: 0.006301
Amount Units: ug/ml



Manual Integration Results

RT: 8.88
Area: 2118
Amount: 0.005621
Amount Units: ug/ml



Reviewer: UJM0, 01-Dec-2022 04:27:34

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-106360-1

SDG No.:

Client Sample ID: FBS010_112022 RA
Lab Sample ID: 410-106360-1 RA

Matrix: Water
Lab File ID: ML0015.D

Analysis Method: 8270D SIM
Date Collected: 11/17/2022 10:33

Extract. Method: 3510C
Date Extracted: 11/23/2022 17:30

Sample wt/vol: 235.5(mL)
Date Analyzed: 12/01/2022 07:26

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 322405
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
117-81-7	Bis(2-ethylhexyl) phthalate	0.30	J B cn	1.1	0.053

CAS NO.	SURROGATE	%REC	Q	LIMITS
38072-94-5	1-Methylnaphthalene-d10 (Surr)	76		36-111
63466-71-7	Benzo(a)pyrene-d12 (Surr)	76		10-110
93951-69-0	Fluoranthene-d10 (Surr)	80		47-128

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20221201-72264.b\ML0015.D
Lims ID: 410-106360-B-1-A
Client ID: FBS010_112022
Sample Type: Client
Inject. Date: 01-Dec-2022 07:26:10 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-106360-B-1-A
Misc. Info.: 410-0072264-006
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20221201-72264.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 01-Dec-2022 08:49:37 Calib Date: 28-Jul-2022 21:32:00
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20220728-62933.b\MG1356.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: UJM0 Date: 01-Dec-2022 07:58:49

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
3 Bis(2-chloroethyl)ether	93	4.080	4.106	-0.026	26	955	0.002957	7M
* 4 1,4-Dichlorobenzene-d4	152	4.368	4.368	0.000	89	55819	0.2500	
* 5 Naphthalene-d8	136	5.568	5.568	0.000	91	184567	0.2500	
$ 9 1-Methylnaphthalene-d10	152	6.303	6.303	0.000	97	80319	0.1904	
* 13 Acenaphthene-d10	164	7.238	7.238	0.000	85	105925	0.2500	
* 20 Phenanthrene-d10	188	8.648	8.648	0.000	95	207345	0.2500	
23 Di-n-butyl phthalate	149	9.218	9.218	0.000	98	155368	0.2039	
$ 24 Fluoranthene-d10 (Surr)	212	9.780	9.780	0.000	97	174810	0.2001	
25 Fluoranthene	202	9.799	9.799	0.000	98	8394	0.007792	M
26 Pyrene	202	10.018	10.012	0.006	96	6242	0.005228	
27 Butyl benzyl phthalate	149	10.676	10.676	0.000	96	421	0.0381	M
* 29 Chrysene-d12	240	11.268	11.268	0.000	55	182414	0.2500	
31 Bis(2-ethylhexyl) phthalate	149	11.329	11.329	0.000	100	13012	0.0717	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.032	13.032	0.000	99	105055	0.1894	
* 38 Perylene-d12	264	13.147	13.147	0.000	99	150028	0.2500	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00033 Amount Added: 10.00 Units: uL Run Reagent

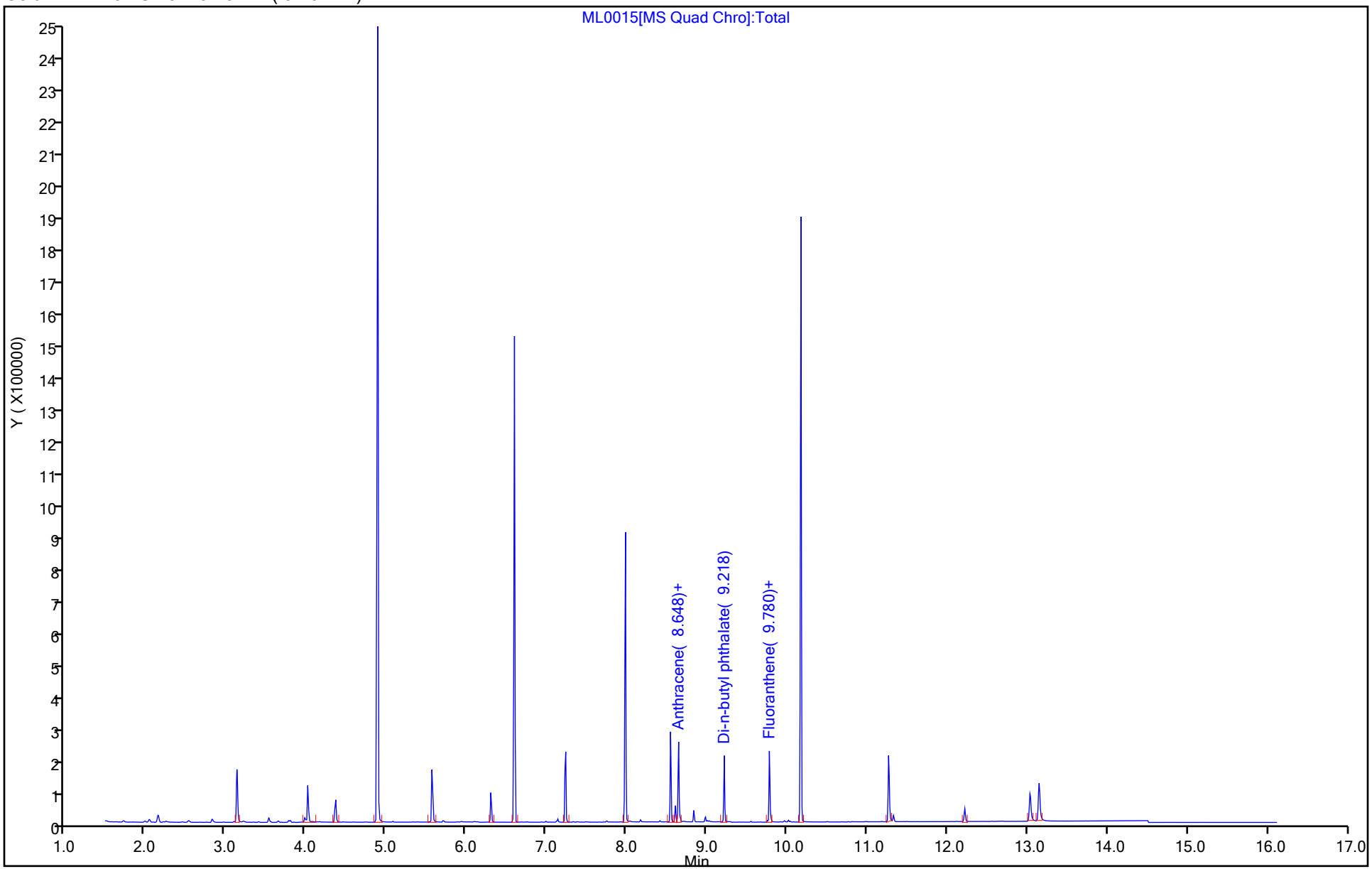
Report Date: 01-Dec-2022 08:50:00 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20221201-72264.b\ML0015.D

Injection Date:	01-Dec-2022 07:26:10	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	410-106360-B-1-A	Lab Sample ID:	410-106360-1	Worklist Smp#:	6
Client ID:	FBS010_112022				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20221201-72264.b\ML0015.D				
Lims ID:	410-106360-B-1-A				
Client ID:	FBS010_112022				
Sample Type:	Client				
Inject. Date:	01-Dec-2022 07:26:10	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-106360-B-1-A				
Misc. Info.:	410-0072264-006				
Operator ID:	jmg00346	Instrument ID:	HP21585		
Method:	\\chromfs\Lancaster\ChromData\HP21585\20221201-72264.b\8270_SIM_HP21585.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	01-Dec-2022 08:49:37	Calib Date:	28-Jul-2022 21:32:00		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP21585\20220728-62933.b\MG1356.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1611				

First Level Reviewer: UJM0 Date: 01-Dec-2022 07:58:49

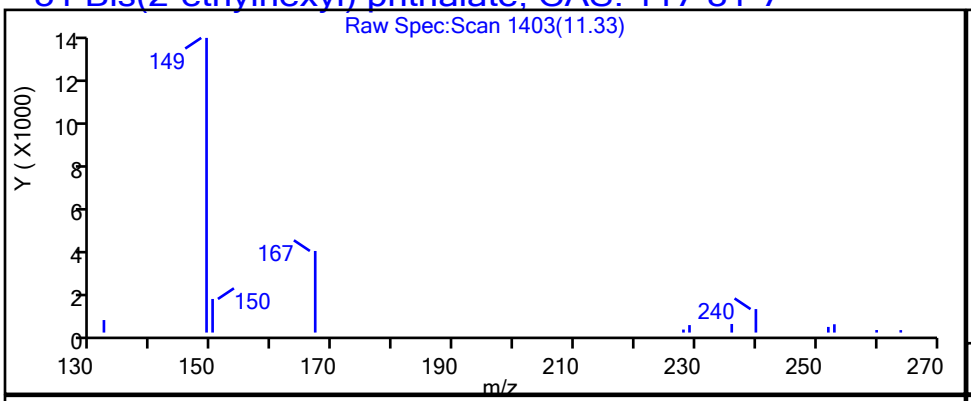
Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1-Methylnaphthalene-d10	0.2500	0.1904	76.17
$ 24 Fluoranthene-d10 (Surr)	0.2500	0.2001	80.05
$ 36 Benzo(a)pyrene-d12 (Surr)	0.2500	0.1894	75.77

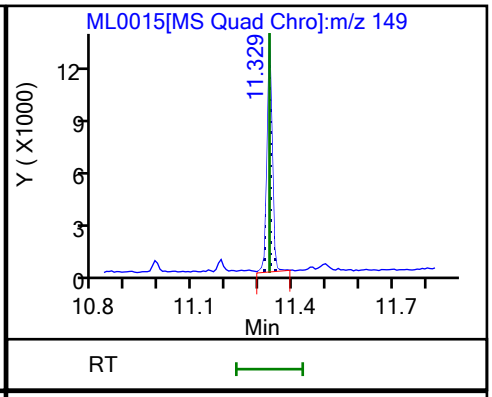
Report Date: 01-Dec-2022 08:50:00 Chrom Revision: 2.3 22-Nov-2022 16:59:54

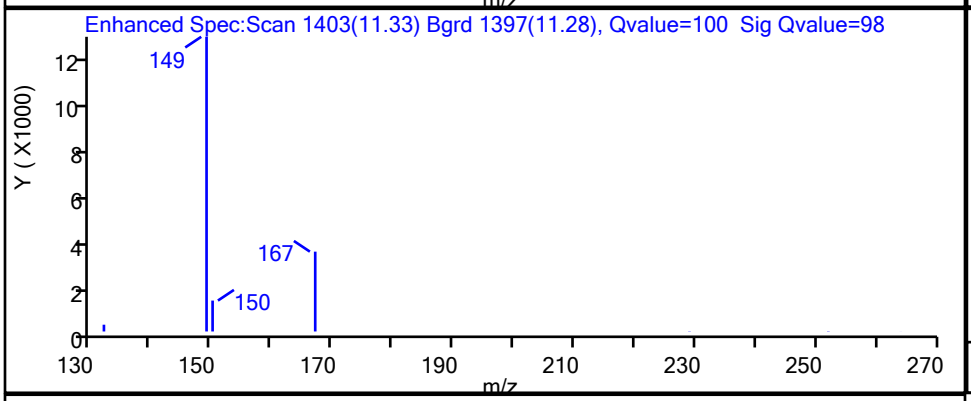
Eurofins Lancaster Laboratories Environment Testing, LLC

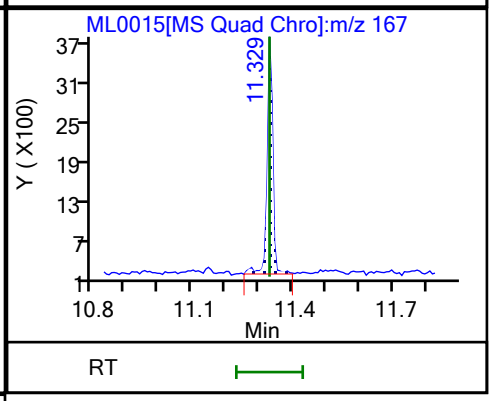
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20221201-72264.b\ML0015.D				
Injection Date:	01-Dec-2022 07:26:10	Instrument ID:	HP21585		
Lims ID:	410-106360-B-1-A	Lab Sample ID:	410-106360-1		
Client ID:	FBS010_112022				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

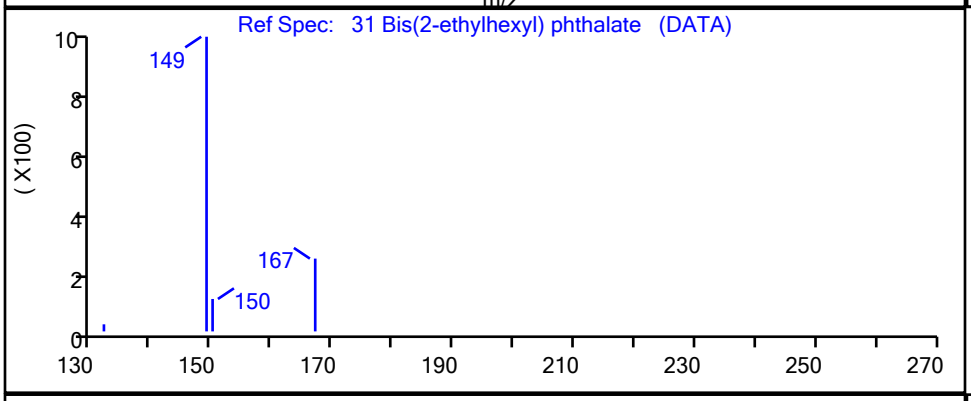
31 Bis(2-ethylhexyl) phthalate, CAS: 117-81-7

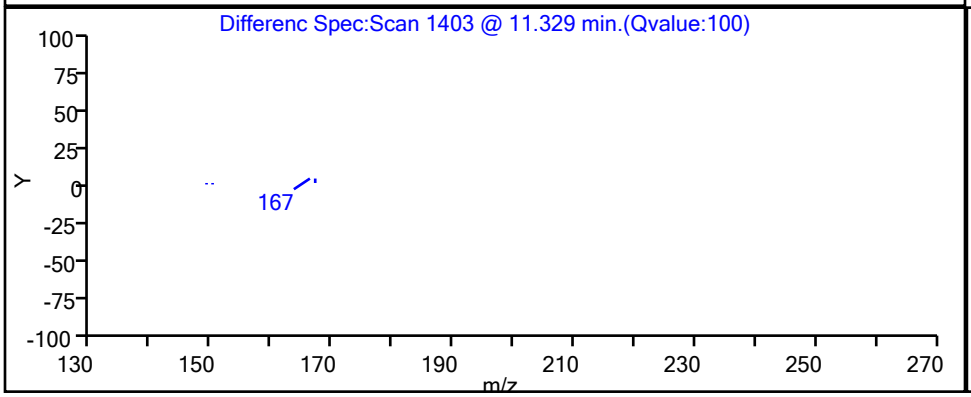


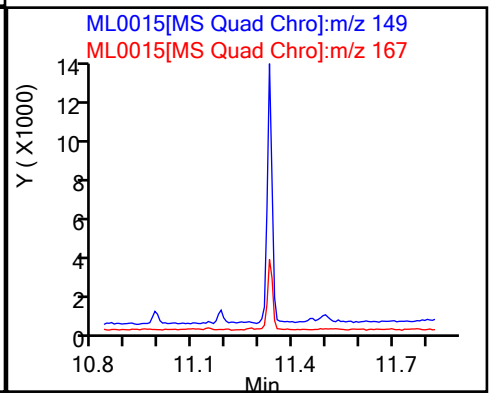












FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-106360-1

SDG No.:

Client Sample ID: FBS010_112022 RE
Lab Sample ID: 410-106360-1 RE

Matrix: Water
Lab File ID: NL0175.D

Analysis Method: 8270D SIM
Date Collected: 11/17/2022 10:33

Extract. Method: 3510C
Date Extracted: 12/03/2022 03:22

Sample wt/vol: 225(mL)
Date Analyzed: 12/05/2022 10:27

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 323522
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND	H	0.33	0.11
90-12-0	1-Methylnaphthalene	ND	H	0.056	0.022
91-57-6	2-Methylnaphthalene	ND	H	0.056	0.022
83-32-9	Acenaphthene	ND	H	0.056	0.011
208-96-8	Acenaphthylene	ND	H	0.056	0.011
120-12-7	Anthracene	ND	H	0.056	0.011
56-55-3	Benzo[a]anthracene	ND	H	0.056	0.011
50-32-8	Benzo[a]pyrene	ND	H	0.056	0.011
205-99-2	Benzo[b]fluoranthene	ND	H	0.056	0.011
191-24-2	Benzo[g,h,i]perylene	ND	H	0.056	0.011
207-08-9	Benzo[k]fluoranthene	ND	H	0.056	0.011
111-44-4	Bis(2-chloroethyl)ether	ND	H	0.056	0.022
117-81-7	Bis(2-ethylhexyl) phthalate	0.17	J H B	1.1	0.056
85-68-7	Butylbenzylphthalate	ND	H	1.1	0.056
218-01-9	Chrysene	ND	H	0.056	0.011
53-70-3	Dibenz(a,h)anthracene	ND	H	0.056	0.022
132-64-9	Dibenzofuran	ND	H	0.056	0.011
84-66-2	Diethylphthalate	ND	H	1.1	0.056
131-11-3	Dimethylphthalate	ND	H *1	1.1	0.056
84-74-2	Di-n-butyl phthalate	3.2	H B * + *1	1.1	0.056
117-84-0	Di-n-octyl phthalate	ND	H	1.1	0.056
206-44-0	Fluoranthene	ND	H	0.056	0.011
86-73-7	Fluorene	ND	H	0.056	0.011
118-74-1	Hexachlorobenzene	ND	H	0.056	0.022
193-39-5	Indeno[1,2,3-cd]pyrene	ND	H	0.056	0.022
91-20-3	Naphthalene	ND	H	0.078	0.033
62-75-9	N-Nitrosodimethylamine	ND	H	0.056	0.022
85-01-8	Phenanthrene	ND	H	0.078	0.033
129-00-0	Pyrene	ND	H	0.056	0.011

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-106360-1

SDG No.:

Client Sample ID: FBS010_112022 RE Lab Sample ID: 410-106360-1 RE

Matrix: Water Lab File ID: NL0175.D

Analysis Method: 8270D SIM Date Collected: 11/17/2022 10:33

Extract. Method: 3510C Date Extracted: 12/03/2022 03:22

Sample wt/vol: 225(mL) Date Analyzed: 12/05/2022 10:27

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor: Level: (low/med) Low

Analysis Batch No.: 323522 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
38072-94-5	1-Methylnaphthalene-d10 (Surr)	45		36-111
63466-71-7	Benzo(a)pyrene-d12 (Surr)	68		10-110
93951-69-0	Fluoranthene-d10 (Surr)	77		47-128

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\NL0175.D
Lims ID: 410-106360-C-1-A RE
Client ID: FBS010_112022
Sample Type: Client
Inject. Date: 05-Dec-2022 10:27:30 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-106360-C-1-A
Misc. Info.: 410-0072499-016
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 05-Dec-2022 16:00:35 Calib Date: 05-Oct-2022 11:42:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0026.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1618

First Level Reviewer: UJM0 Date: 05-Dec-2022 10:47:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	4.556	4.556	0.000	99	39155	0.2500	
* 5 Naphthalene-d8	136	5.768	5.768	0.000	100	129309	0.2500	
$ 9 1-Methylnaphthalene-d10	152	6.506	6.505	0.001	98	26666	0.1121	
* 13 Acenaphthene-d10	164	7.437	7.437	0.000	97	52059	0.2500	
16 Diethyl phthalate	149	7.850	7.853	-0.008	100	1998	0.008792	
* 20 Phenanthrene-d10	188	8.847	8.854	-0.007	100	73884	0.2500	
23 Di-n-butyl phthalate	149	9.416	9.411	0.000	100	186948	0.7290	
$ 24 Fluoranthene-d10 (Surr)	212	9.987	9.981	0.000	97	51736	0.1921	
* 29 Chrysene-d12	240	11.513	11.513	0.000	81	43335	0.2500	
31 Bis(2-ethylhexyl) phthalate	149	11.574	11.578	0.000	99	3836	0.0392	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.354	13.358	-0.007	100	26795	0.1691	
* 38 Perylene-d12	264	13.476	13.476	0.000	96	41274	0.2500	

QC Flag Legend
Processing Flags

Reagents:
MSS_RVSIM_IS_00032 Amount Added: 10.00 Units: uL Run Reagent

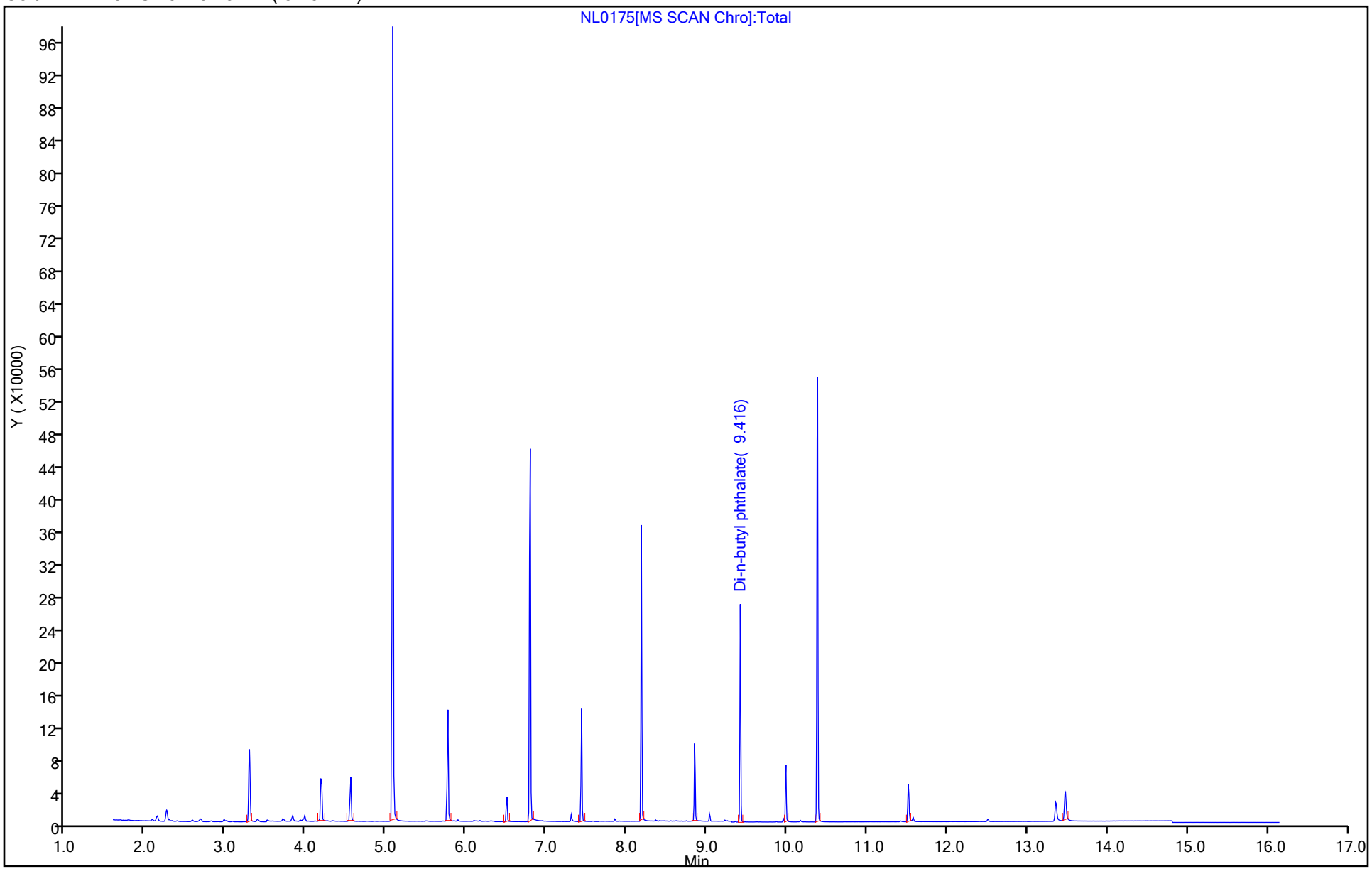
Report Date: 05-Dec-2022 16:00:37 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\NL0175.D

Injection Date:	05-Dec-2022 10:27:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	410-106360-C-1-A RE	Lab Sample ID:	410-106360-1	Worklist Smp#:	16
Client ID:	FBS010_112022				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\NL0175.D
Lims ID: 410-106360-C-1-A RE
Client ID: FBS010_112022
Sample Type: Client
Inject. Date: 05-Dec-2022 10:27:30 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-106360-C-1-A
Misc. Info.: 410-0072499-016
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 05-Dec-2022 16:00:35 Calib Date: 05-Oct-2022 11:42:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0026.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1618

First Level Reviewer: UJM0 Date: 05-Dec-2022 10:47:29

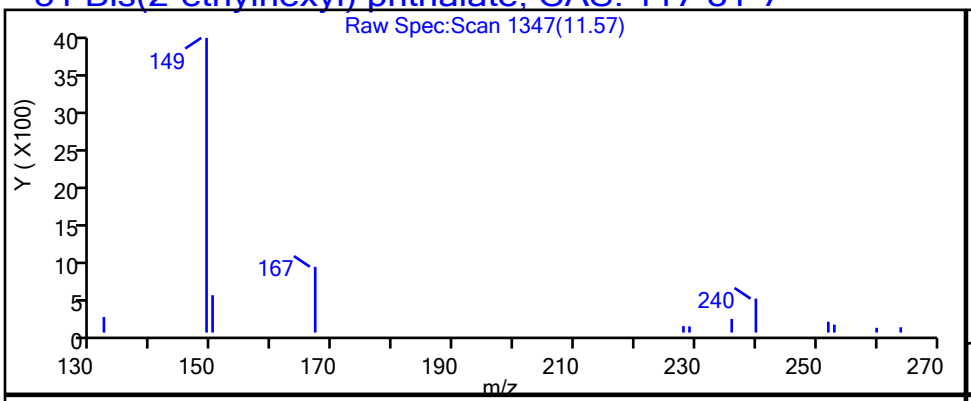
Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1-Methylnaphthalene-d10	0.2500	0.1121	44.84
$ 24 Fluoranthene-d10 (Surr)	0.2500	0.1921	76.83
$ 36 Benzo(a)pyrene-d12 (Surr)	0.2500	0.1691	67.64

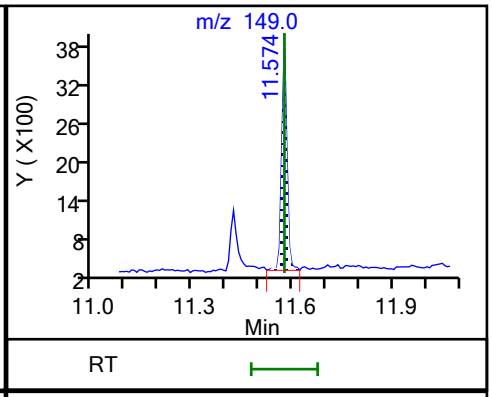
Report Date: 05-Dec-2022 16:00:37 Chrom Revision: 2.3 01-Dec-2022 08:01:02

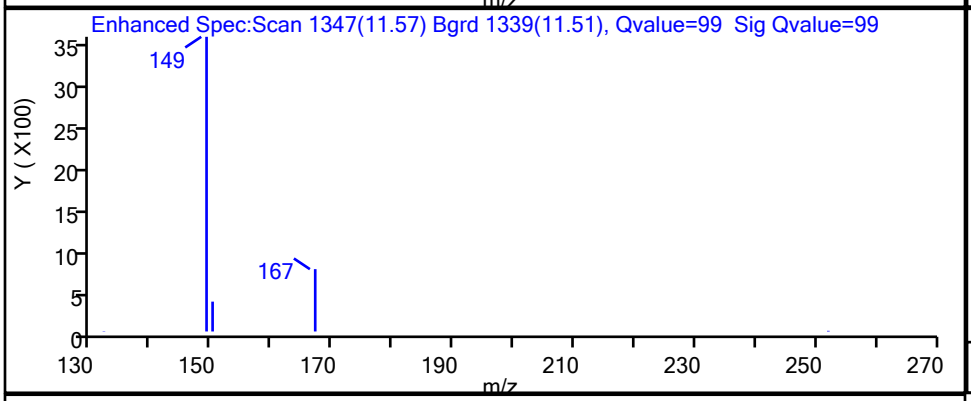
Eurofins Lancaster Laboratories Environment Testing, LLC

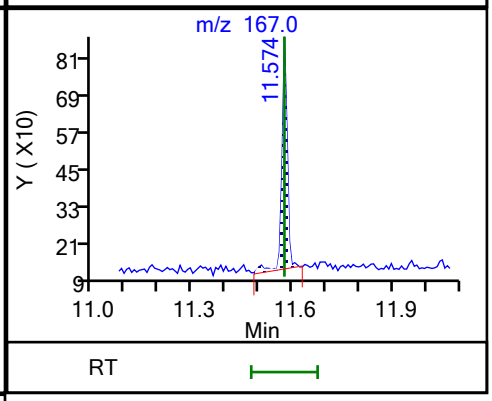
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\NL0175.D				
Injection Date:	05-Dec-2022 10:27:30	Instrument ID:	HP23263		
Lims ID:	410-106360-C-1-A RE	Lab Sample ID:	410-106360-1		
Client ID:	FBS010_112022				
Operator ID:	jmg00346	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

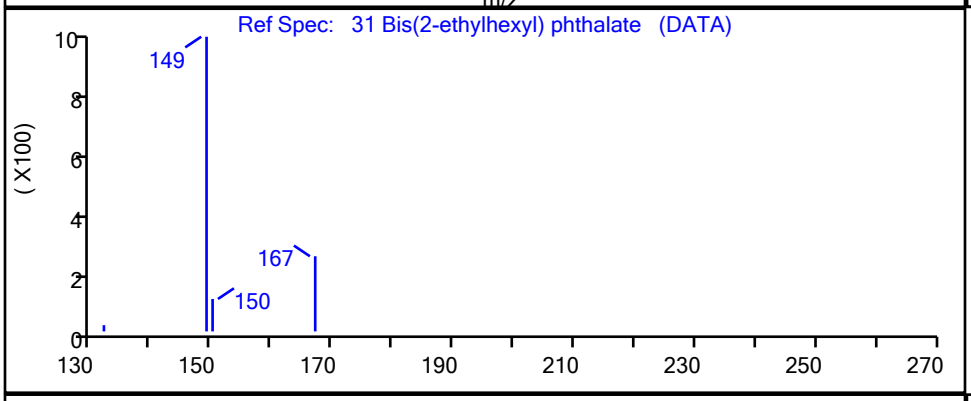
31 Bis(2-ethylhexyl) phthalate, CAS: 117-81-7

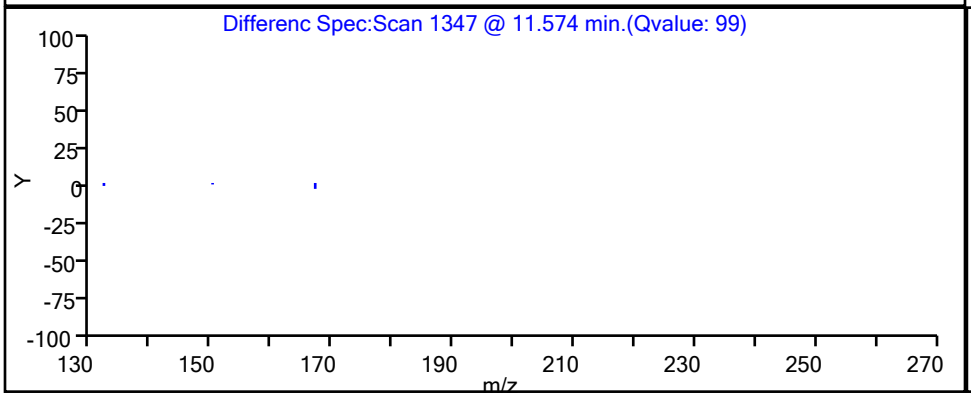


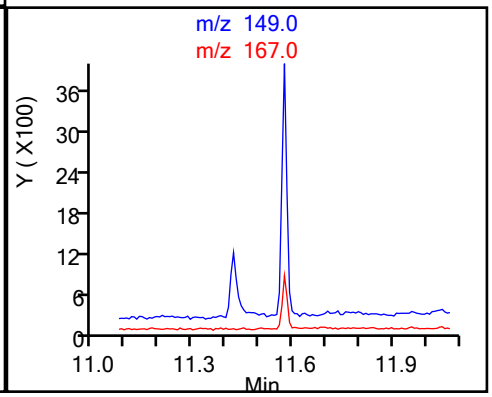












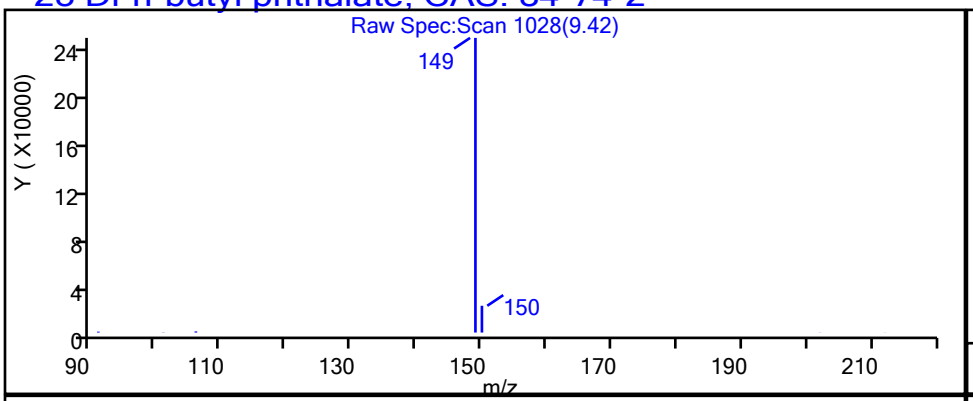
Report Date: 05-Dec-2022 16:00:37 Chrom Revision: 2.3 01-Dec-2022 08:01:02

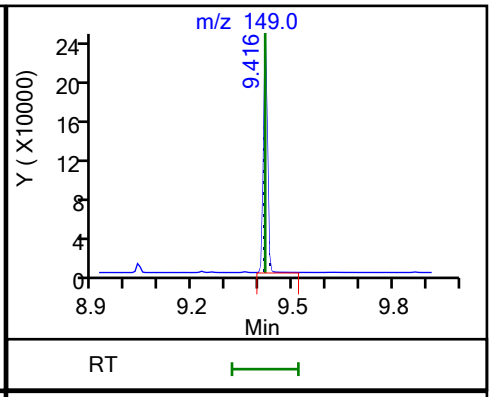
Eurofins Lancaster Laboratories Environment Testing, LLC

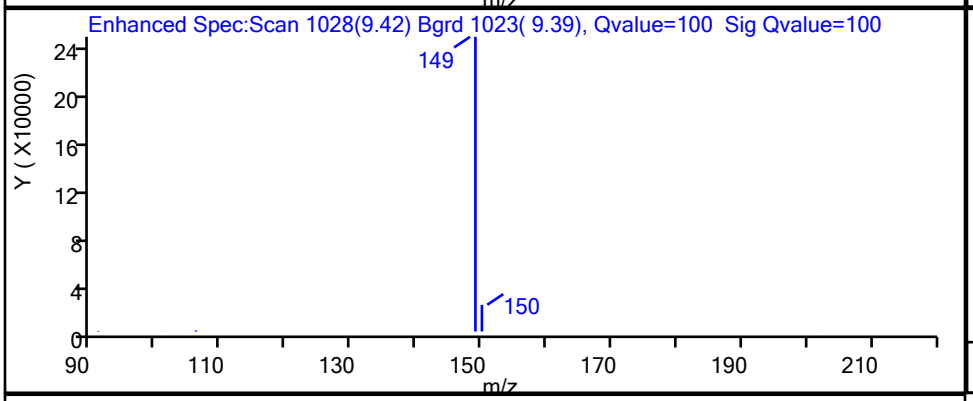
Data File: \\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\NL0175.D

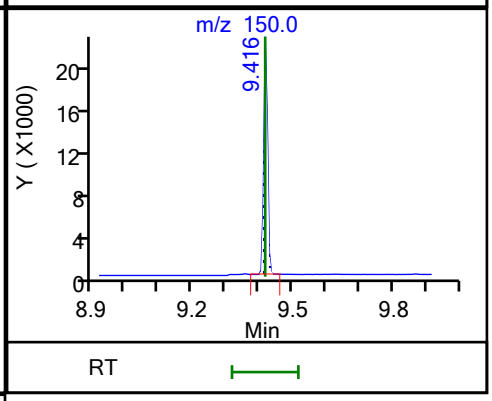
Injection Date:	05-Dec-2022 10:27:30	Instrument ID:	HP23263		
Lims ID:	410-106360-C-1-A RE	Lab Sample ID:	410-106360-1		
Client ID:	FBS010_112022				
Operator ID:	jmg00346	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

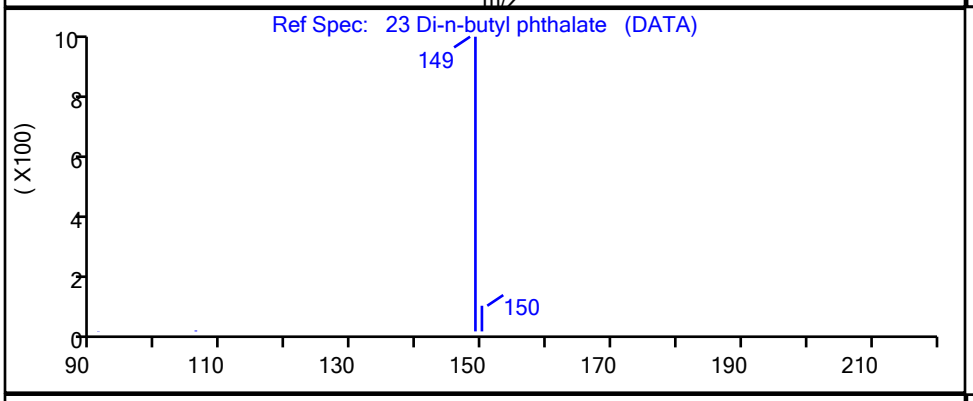
23 Di-n-butyl phthalate, CAS: 84-74-2

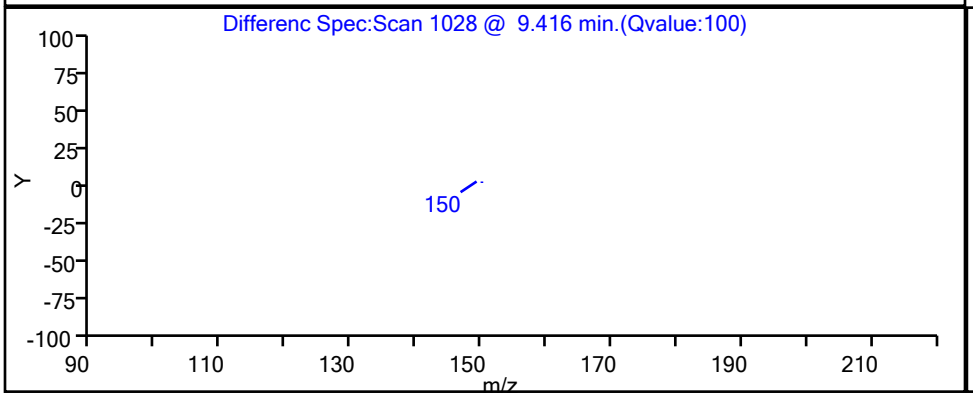


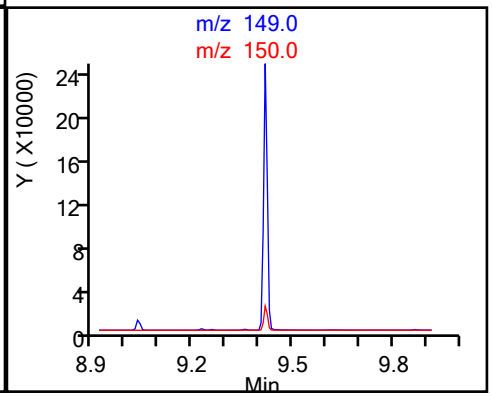












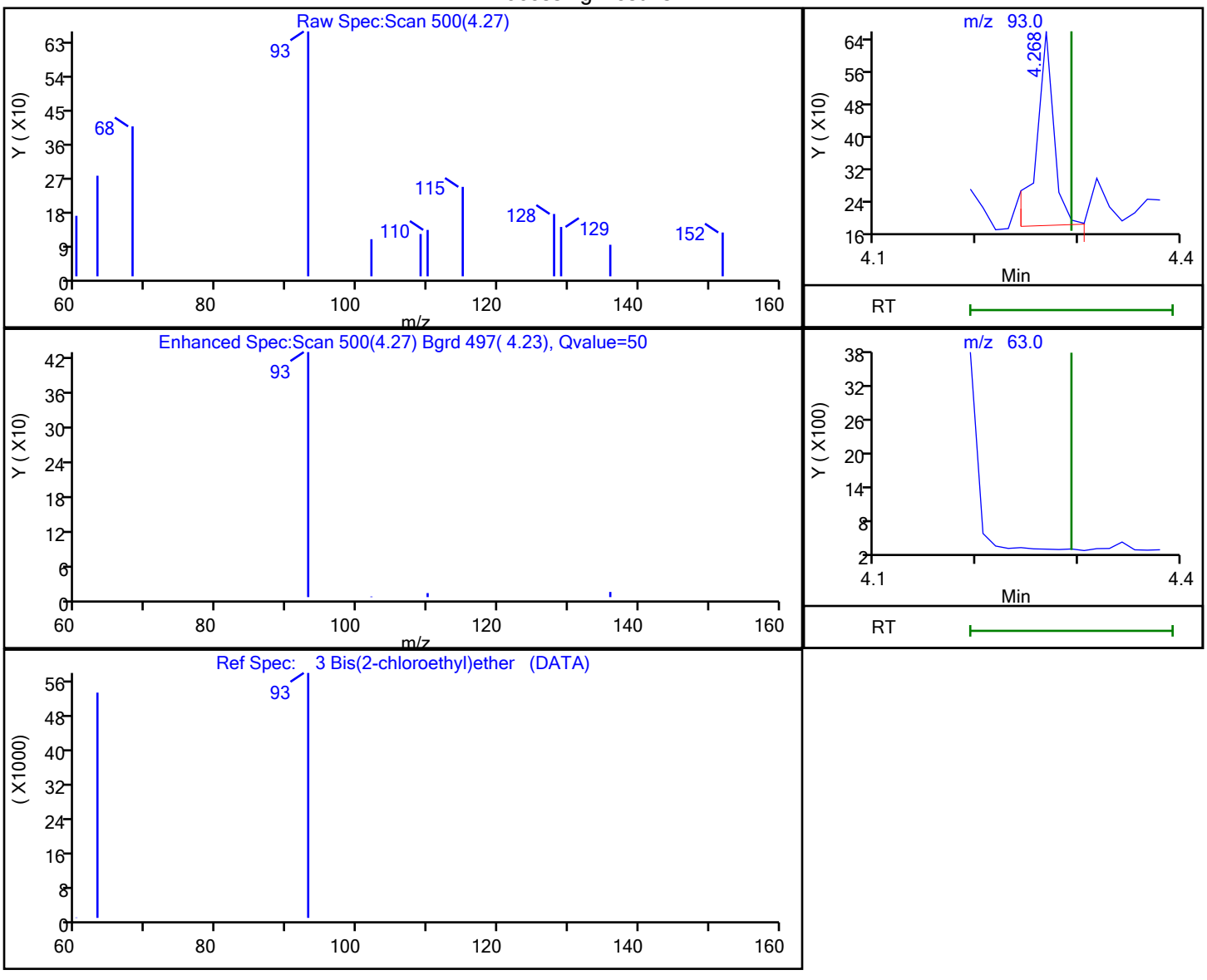
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\NL0175.D				
Injection Date:	05-Dec-2022 10:27:30	Instrument ID:	HP23263		
Lims ID:	410-106360-C-1-A RE	Lab Sample ID:	410-106360-1		
Client ID:	FBS010_112022				
Operator ID:	jmg00346	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

3 Bis(2-chloroethyl)ether, CAS: 111-44-4

Processing Results



RT	Mass	Response	Amount
4.27	93.00	539	0.002940
4.29	63.00	0	

Reviewer: UJM0, 05-Dec-2022 10:47:00

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

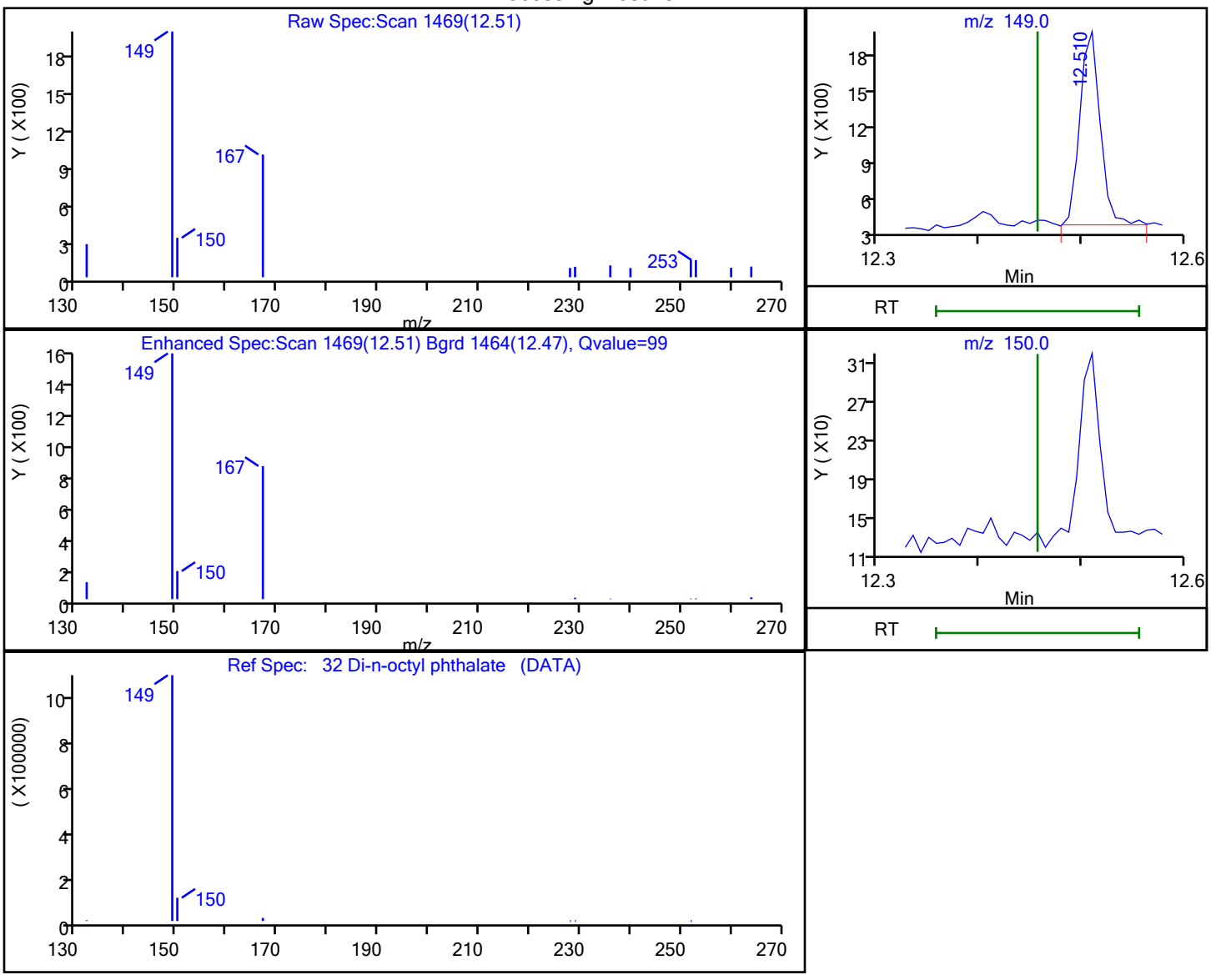
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\NL0175.D				
Injection Date:	05-Dec-2022 10:27:30	Instrument ID:	HP23263		
Lims ID:	410-106360-C-1-A RE	Lab Sample ID:	410-106360-1		
Client ID:	FBS010_112022				
Operator ID:	jmg00346	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

32 Di-n-octyl phthalate, CAS: 117-84-0

Processing Results



RT	Mass	Response	Amount
12.51	149.00	2206	0.013470
12.46	150.00	0	

Reviewer: UJM0, 05-Dec-2022 10:47:19

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-106360-1

SDG No.:

Client Sample ID: DUP-01_112022
Lab Sample ID: 410-106360-2

Matrix: Water
Lab File ID: NK1416.D

Analysis Method: 8270D SIM
Date Collected: 11/17/2022 12:00

Extract. Method: 3510C
Date Extracted: 11/23/2022 17:30

Sample wt/vol: 239.4(mL)
Date Analyzed: 11/30/2022 15:54

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 321961
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.31	0.10
90-12-0	1-Methylnaphthalene	ND		0.052	0.021
91-57-6	2-Methylnaphthalene	ND		0.052	0.021
83-32-9	Acenaphthene	ND		0.052	0.010
208-96-8	Acenaphthylene	ND		0.052	0.010
120-12-7	Anthracene	ND		0.052	0.010
56-55-3	Benzo[a]anthracene	ND		0.052	0.010
50-32-8	Benzo[a]pyrene	ND		0.052	0.010
205-99-2	Benzo[b]fluoranthene	ND		0.052	0.010
191-24-2	Benzo[g,h,i]perylene	ND		0.052	0.010
207-08-9	Benzo[k]fluoranthene	ND		0.052	0.010
111-44-4	Bis(2-chloroethyl)ether	0.025	J	0.052	0.021
85-68-7	Butylbenzylphthalate	ND	cn	1.0	0.052
218-01-9	Chrysene	ND		0.052	0.010
53-70-3	Dibenz(a,h)anthracene	ND		0.052	0.021
132-64-9	Dibenzofuran	ND		0.052	0.010
84-66-2	Diethylphthalate	ND		1.0	0.052
131-11-3	Dimethylphthalate	ND		1.0	0.052
84-74-2	Di-n-butyl phthalate	1.4	*+ B *1 cn	1.0	0.052
117-84-0	Di-n-octyl phthalate	ND		1.0	0.052
206-44-0	Fluoranthene	0.018	J	0.052	0.010
86-73-7	Fluorene	ND		0.052	0.010
118-74-1	Hexachlorobenzene	ND		0.052	0.021
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.052	0.021
91-20-3	Naphthalene	ND		0.073	0.031
62-75-9	N-Nitrosodimethylamine	ND		0.052	0.021
85-01-8	Phenanthrene	ND		0.073	0.031
129-00-0	Pyrene	0.011	J	0.052	0.010

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-106360-1

SDG No.:

Client Sample ID: DUP-01_112022 Lab Sample ID: 410-106360-2

Matrix: Water Lab File ID: NK1416.D

Analysis Method: 8270D SIM Date Collected: 11/17/2022 12:00

Extract. Method: 3510C Date Extracted: 11/23/2022 17:30

Sample wt/vol: 239.4(mL) Date Analyzed: 11/30/2022 15:54

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor: Level: (low/med) Low

Analysis Batch No.: 321961 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
38072-94-5	1-Methylnaphthalene-d10 (Surr)	82		36-111
63466-71-7	Benzo(a)pyrene-d12 (Surr)	73		10-110
93951-69-0	Fluoranthene-d10 (Surr)	70		47-128

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1416.D
Lims ID: 410-106360-B-2-A
Client ID: DUP-01_112022
Sample Type: Client
Inject. Date: 30-Nov-2022 15:54:30 ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-106360-B-2-A
Misc. Info.: 410-0072166-017
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 01-Dec-2022 04:31:08 Calib Date: 05-Oct-2022 11:42:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0026.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: UJM0 Date: 01-Dec-2022 04:28:49

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
3 Bis(2-chloroethyl)ether	93	4.281	4.306	-0.012	50	1089	0.005965	
* 4 1,4-Dichlorobenzene-d4	152	4.568	4.568	0.000	92	39445	0.2500	
* 5 Naphthalene-d8	136	5.780	5.768	0.012	100	128792	0.2500	
$ 9 1-Methylnaphthalene-d10	152	6.508	6.522	0.000	99	48637	0.2053	
* 13 Acenaphthene-d10	164	7.449	7.439	0.010	94	57443	0.2500	
16 Diethyl phthalate	149	7.860	7.867	0.000	100	1743	0.006951	
* 20 Phenanthrene-d10	188	8.857	8.849	0.008	100	76594	0.2500	
21 Phenanthrene	178	8.880	8.880	0.008	98	1643	0.004527	
23 Di-n-butyl phthalate	149	9.425	9.427	0.006	100	87777	0.3302	
$ 24 Fluoranthene-d10 (Surr)	212	9.989	10.008	0.000	100	49198	0.1762	
25 Fluoranthene	202	10.008	10.008	0.000	84	1419	0.004223	
26 Pyrene	202	10.227	10.221	0.006	97	824	0.002717	
* 29 Chrysene-d12	240	11.524	11.517	0.007	82	40613	0.2500	
31 Bis(2-ethylhexyl) phthalate	149	11.578	11.578	0.000	98	11734	0.1278	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.365	13.365	0.000	99	25005	0.1823	
* 38 Perylene-d12	264	13.488	13.480	0.008	95	35726	0.2500	

QC Flag Legend

Processing Flags

Reagents:

MSS_RVSIM_IS_00032 Amount Added: 10.00 Units: uL Run Reagent

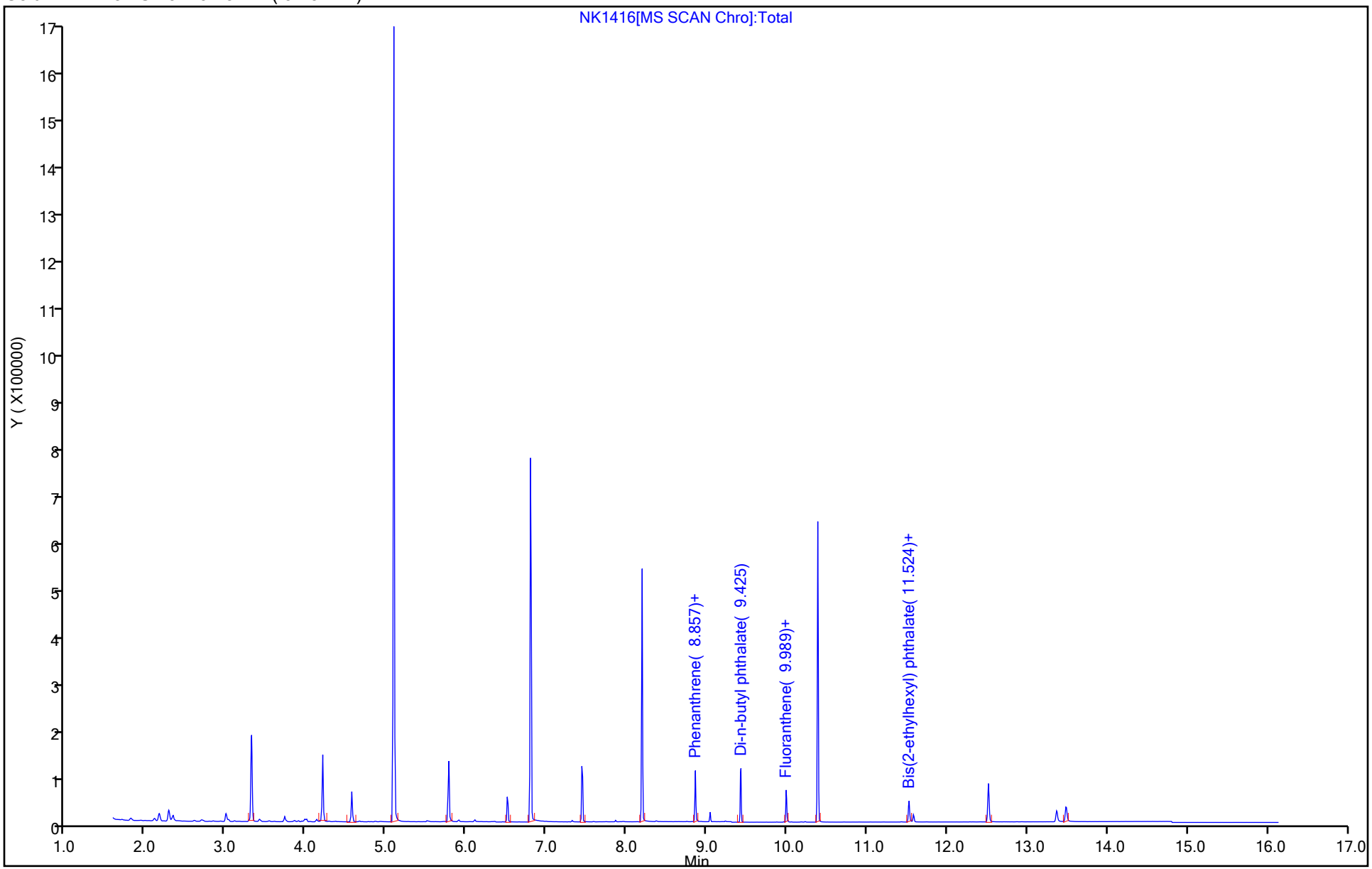
Report Date: 01-Dec-2022 04:31:53 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1416.D

Injection Date:	30-Nov-2022 15:54:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	410-106360-B-2-A	Lab Sample ID:	410-106360-2	Worklist Smp#:	17
Client ID:	DUP-01_112022				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1416.D				
Lims ID:	410-106360-B-2-A				
Client ID:	DUP-01_112022				
Sample Type:	Client				
Inject. Date:	30-Nov-2022 15:54:30	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-106360-B-2-A				
Misc. Info.:	410-0072166-017				
Operator ID:	jmg00346	Instrument ID:	HP23263		
Method:	\\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\8270_SIM_HP23263.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	01-Dec-2022 04:31:08	Calib Date:	05-Oct-2022 11:42:30		
Integrator:	Falcon	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0026.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1611				

First Level Reviewer: UJM0 Date: 01-Dec-2022 04:28:49

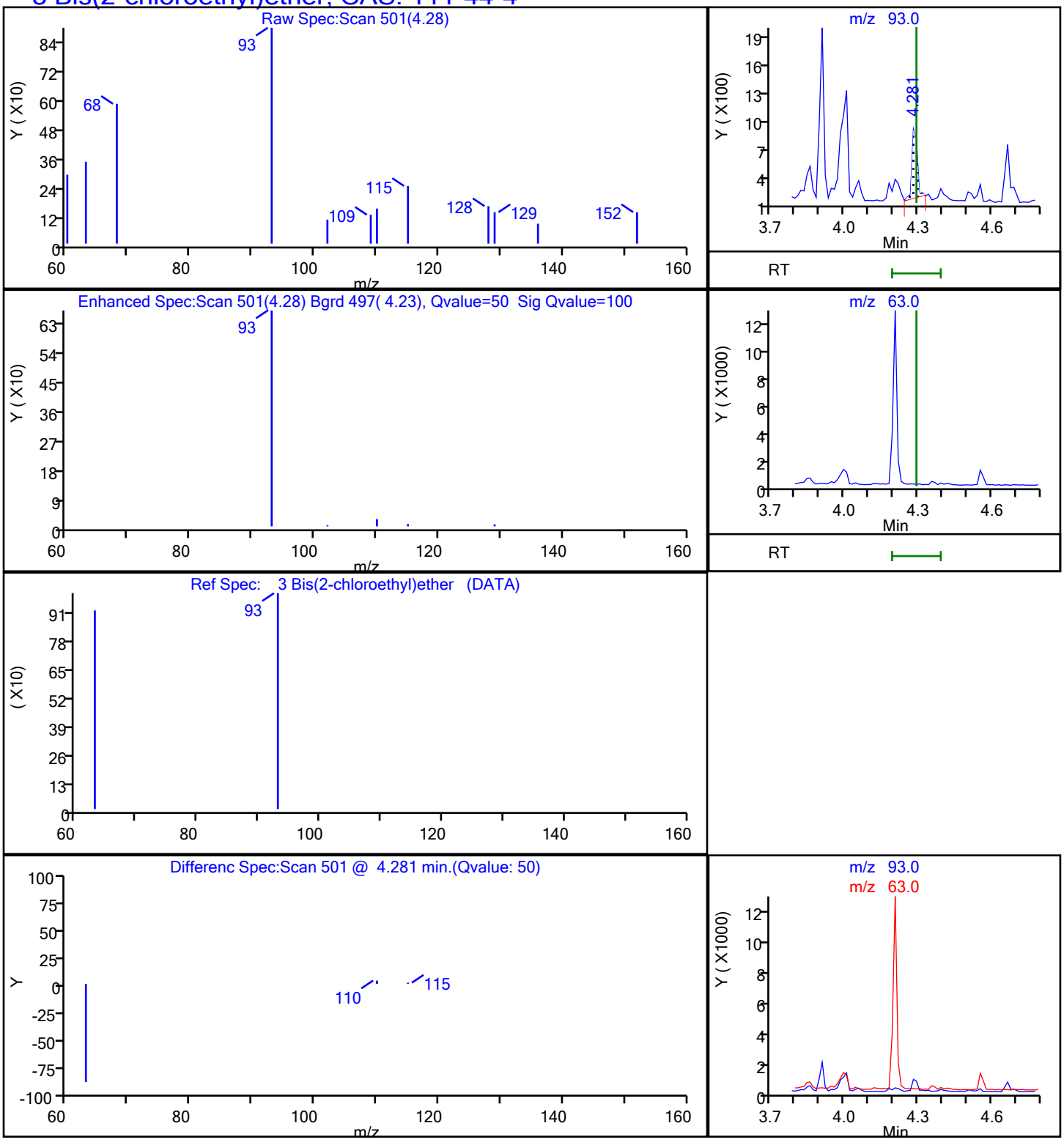
Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1-Methylnaphthalene-d10	0.2500	0.2053	82.12
$ 24 Fluoranthene-d10 (Surr)	0.2500	0.1762	70.48
$ 36 Benzo(a)pyrene-d12 (Surr)	0.2500	0.1823	72.92

Report Date: 01-Dec-2022 04:31:53 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1416.D				
Injection Date:	30-Nov-2022 15:54:30	Instrument ID:	HP23263		
Lims ID:	410-106360-B-2-A	Lab Sample ID:	410-106360-2		
Client ID:	DUP-01_112022				
Operator ID:	jmg00346	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

3 Bis(2-chloroethyl)ether, CAS: 111-44-4

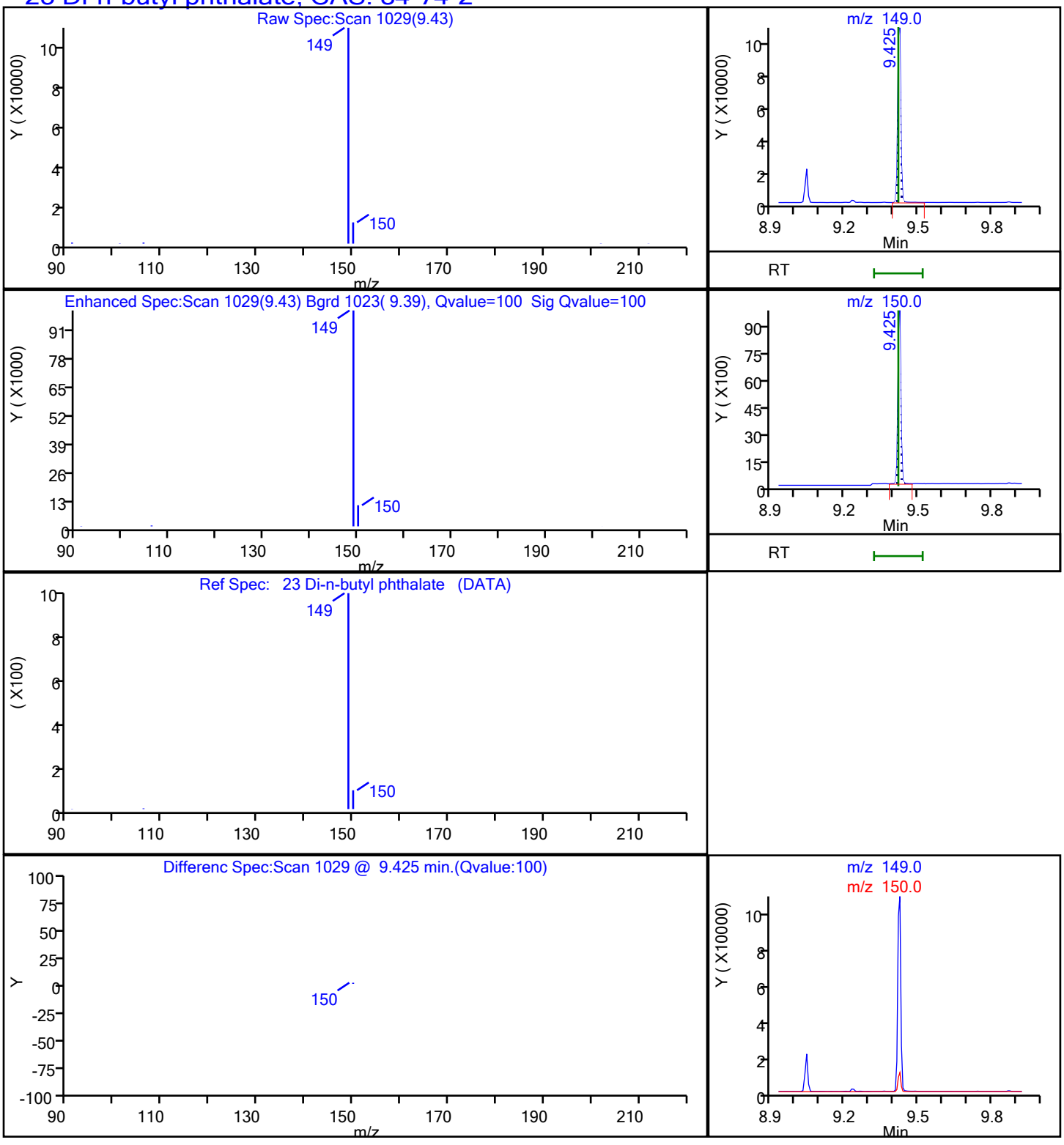


Report Date: 01-Dec-2022 04:31:53 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1416.D				
Injection Date:	30-Nov-2022 15:54:30	Instrument ID:	HP23263		
Lims ID:	410-106360-B-2-A	Lab Sample ID:	410-106360-2		
Client ID:	DUP-01_112022				
Operator ID:	jmg00346	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

23 Di-n-butyl phthalate, CAS: 84-74-2

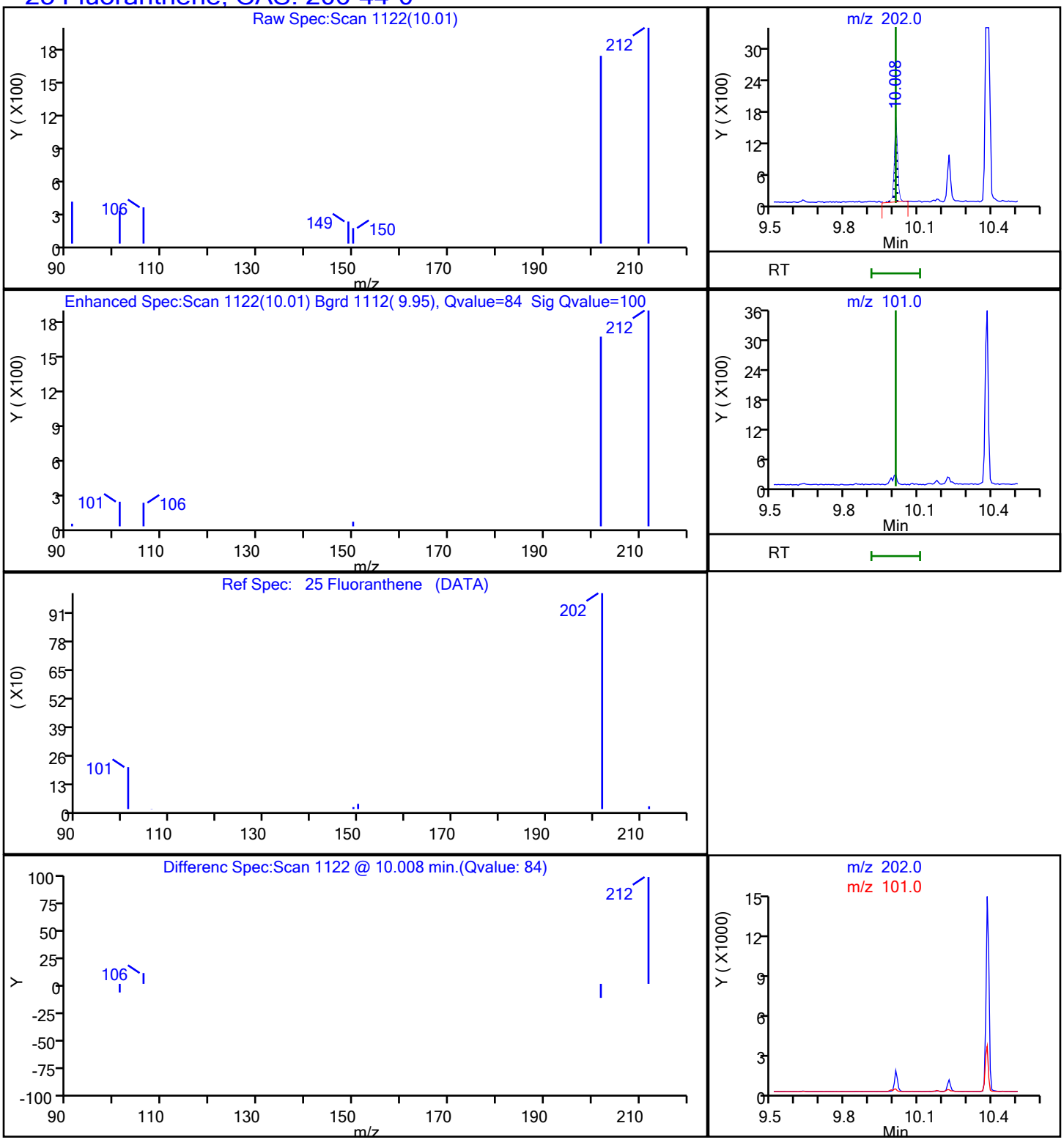


Report Date: 01-Dec-2022 04:31:53 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1416.D				
Injection Date:	30-Nov-2022 15:54:30	Instrument ID:	HP23263		
Lims ID:	410-106360-B-2-A	Lab Sample ID:	410-106360-2		
Client ID:	DUP-01_112022				
Operator ID:	jmg00346	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

25 Fluoranthene, CAS: 206-44-0



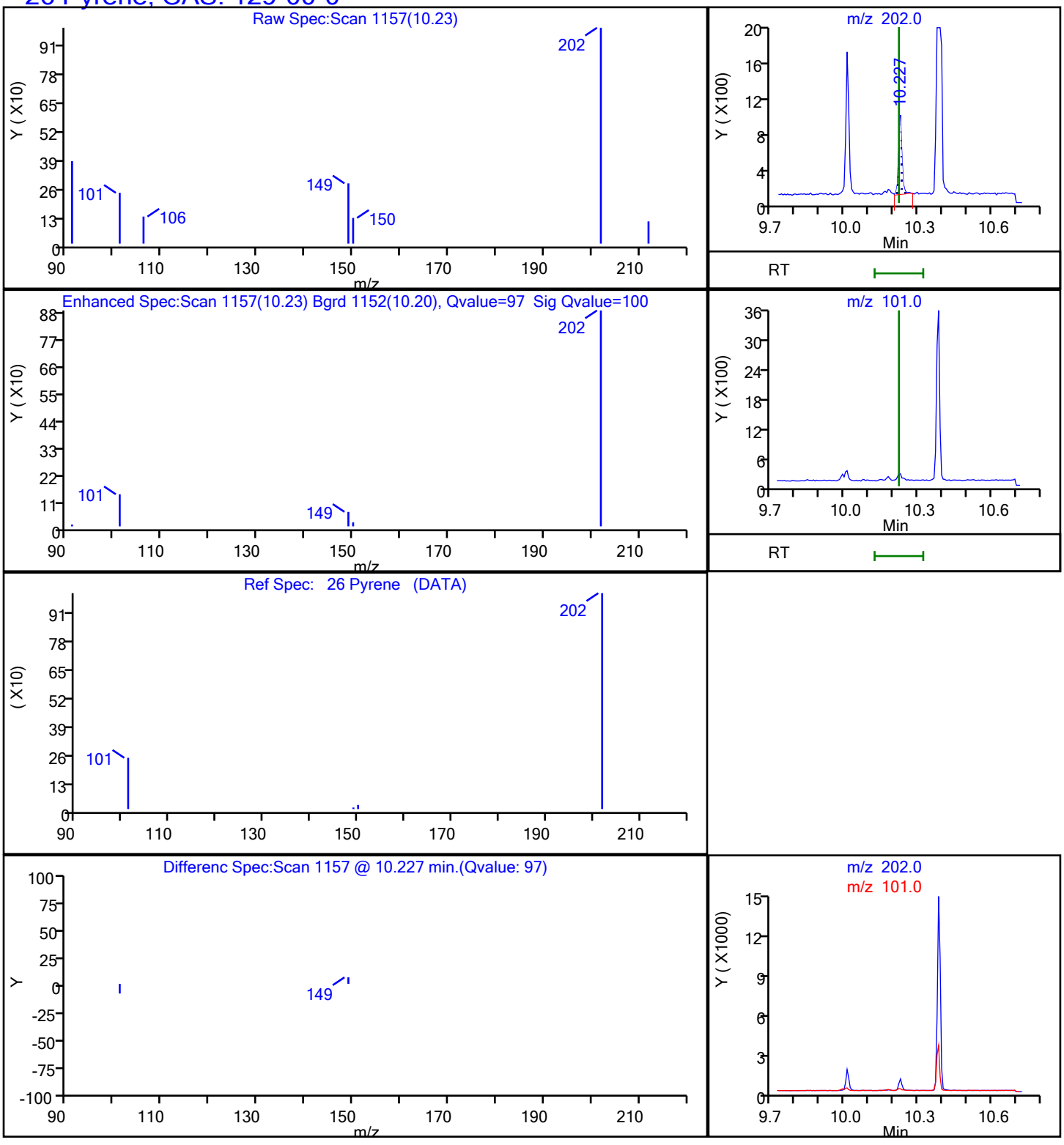
Report Date: 01-Dec-2022 04:31:53 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1416.D

Injection Date:	30-Nov-2022 15:54:30	Instrument ID:	HP23263		
Lims ID:	410-106360-B-2-A	Lab Sample ID:	410-106360-2		
Client ID:	DUP-01_112022				
Operator ID:	jmg00346	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

26 Pyrene, CAS: 129-00-0



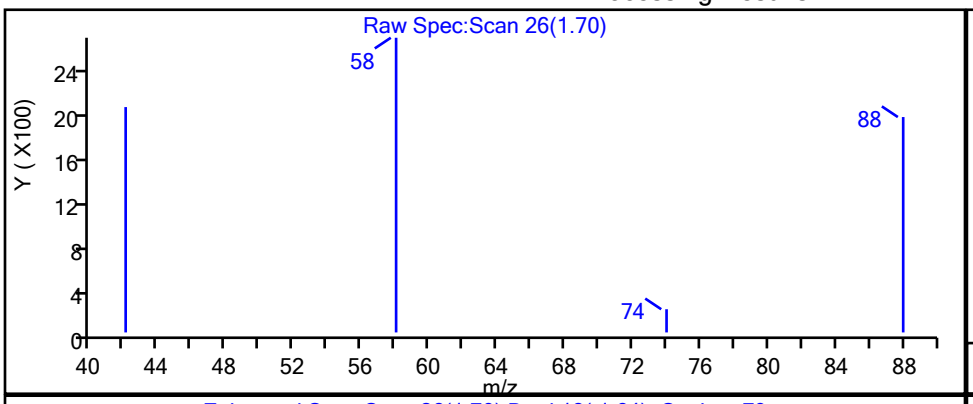
User Disabled Compound Report

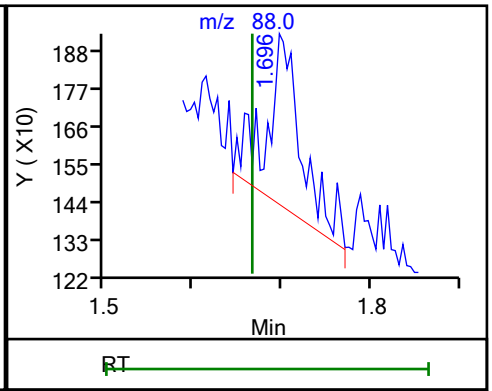
Eurofins Lancaster Laboratories Environment Testing, LLC

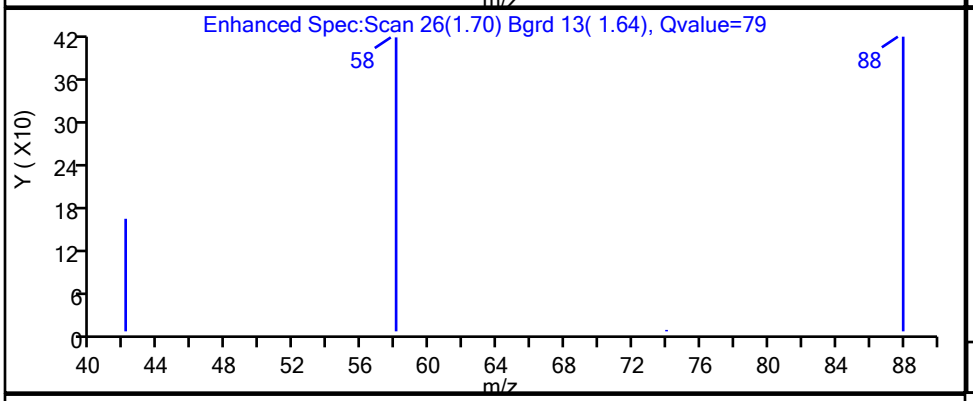
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1416.D				
Injection Date:	30-Nov-2022 15:54:30	Instrument ID:	HP23263		
Lims ID:	410-106360-B-2-A	Lab Sample ID:	410-106360-2		
Client ID:	DUP-01_112022				
Operator ID:	jmg00346	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

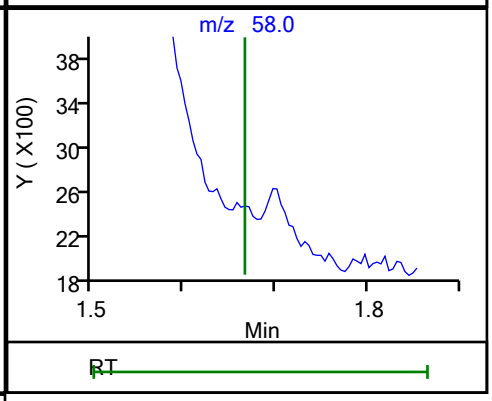
1 1,4-Dioxane, CAS: 123-91-1

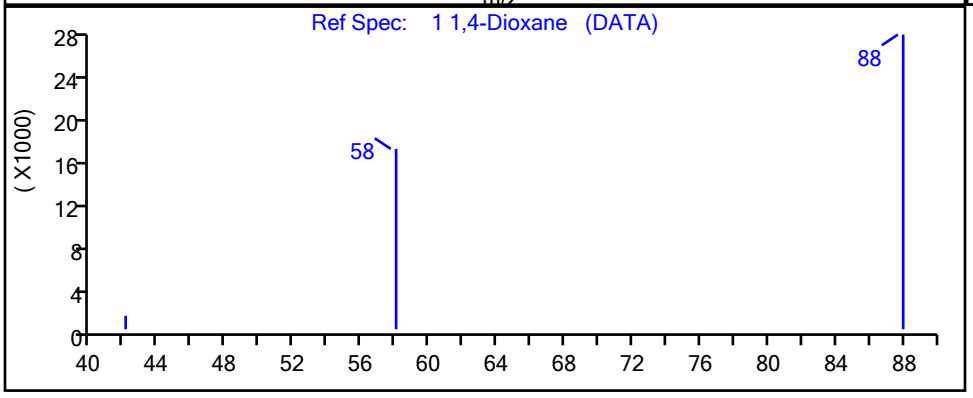
Processing Results











RT	Mass	Response	Amount
1.70	88.00	1385	0.014800
1.67	58.00	0	

Reviewer: UJM0, 01-Dec-2022 04:28:18

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

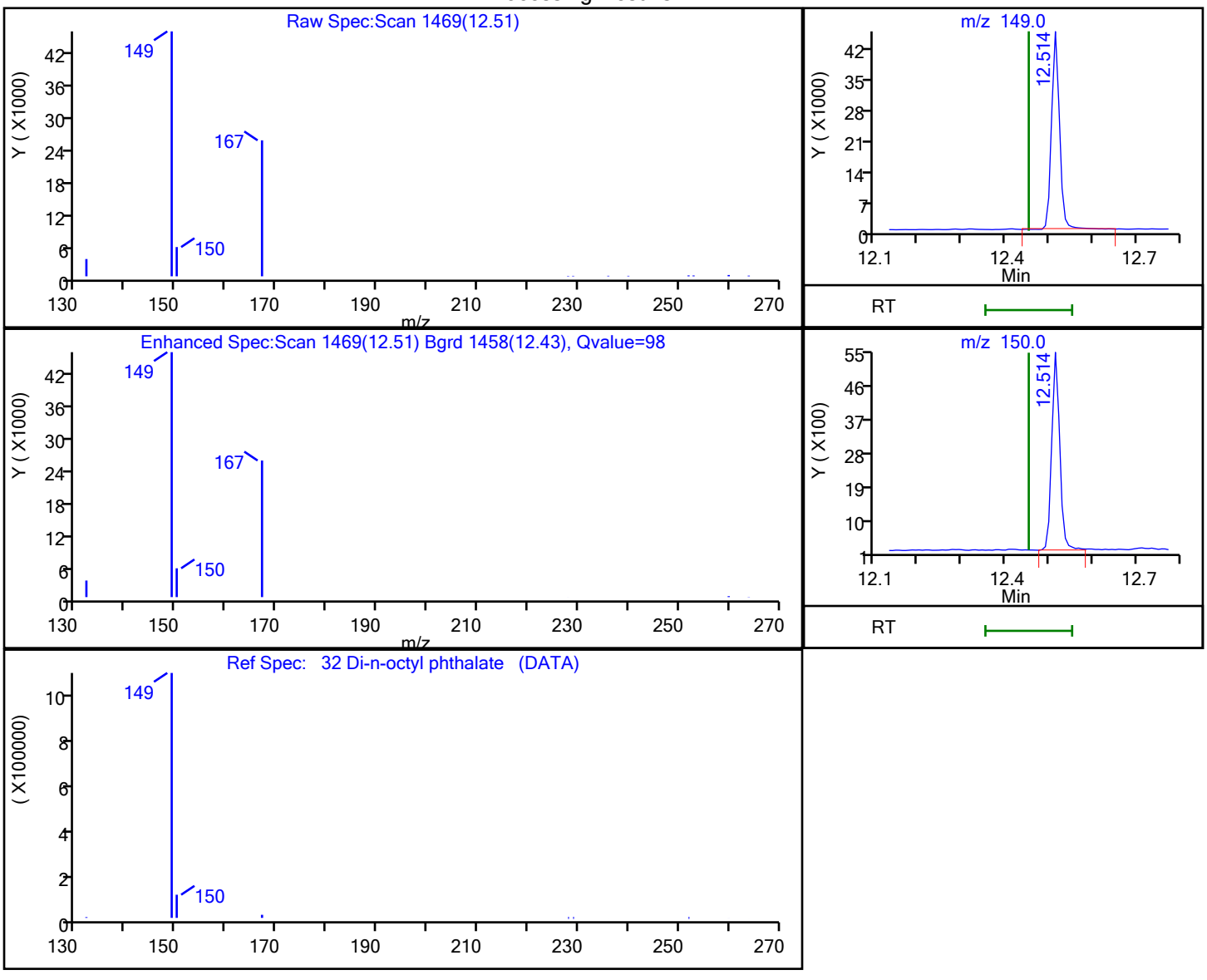
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1416.D				
Injection Date:	30-Nov-2022 15:54:30	Instrument ID:	HP23263		
Lims ID:	410-106360-B-2-A	Lab Sample ID:	410-106360-2		
Client ID:	DUP-01_112022				
Operator ID:	jmg00346	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

32 Di-n-octyl phthalate, CAS: 117-84-0

Processing Results



RT	Mass	Response	Amount
12.51	149.00	57905	0.408479
12.51	150.00	6749	

Reviewer: UJM0, 01-Dec-2022 04:28:44

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-106360-1

SDG No.:

Client Sample ID: DUP-01_112022 RA
Lab Sample ID: 410-106360-2 RA

Matrix: Water
Lab File ID: ML0016.D

Analysis Method: 8270D SIM
Date Collected: 11/17/2022 12:00

Extract. Method: 3510C
Date Extracted: 11/23/2022 17:30

Sample wt/vol: 239.4(mL)
Date Analyzed: 12/01/2022 07:47

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 322405
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
117-81-7	Bis(2-ethylhexyl) phthalate	0.66	J B cn	1.0	0.052

CAS NO.	SURROGATE	%REC	Q	LIMITS
38072-94-5	1-Methylnaphthalene-d10 (Surr)	76		36-111
63466-71-7	Benzo(a)pyrene-d12 (Surr)	75		10-110
93951-69-0	Fluoranthene-d10 (Surr)	82		47-128

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20221201-72264.b\ML0016.D
Lims ID: 410-106360-B-2-A
Client ID: DUP-01_112022
Sample Type: Client
Inject. Date: 01-Dec-2022 07:47:29 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-106360-B-2-A
Misc. Info.: 410-0072264-007
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20221201-72264.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 01-Dec-2022 08:49:37 Calib Date: 28-Jul-2022 21:32:00
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20220728-62933.b\MG1356.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: UJM0 Date: 01-Dec-2022 08:08:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.618	1.575	0.043	81	645	0.003974	7M
* 4 1,4-Dichlorobenzene-d4	152	4.368	4.368	0.000	88	57714	0.2500	
* 5 Naphthalene-d8	136	5.568	5.568	0.000	91	182323	0.2500	
$ 9 1-Methylnaphthalene-d10	152	6.303	6.303	0.000	97	79235	0.1902	
* 13 Acenaphthene-d10	164	7.238	7.238	0.000	85	105156	0.2500	
* 20 Phenanthrene-d10	188	8.648	8.648	0.000	94	203025	0.2500	
23 Di-n-butyl phthalate	149	9.218	9.218	0.000	98	226340	0.3034	
$ 24 Fluoranthene-d10 (Surr)	212	9.780	9.780	0.000	97	174352	0.2038	
25 Fluoranthene	202	9.799	9.799	0.000	98	4650	0.004409	M
26 Pyrene	202	10.018	10.012	0.006	97	3768	0.003043	
* 29 Chrysene-d12	240	11.268	11.268	0.000	55	189160	0.2500	
31 Bis(2-ethylhexyl) phthalate	149	11.329	11.329	0.000	99	46796	0.1580	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.032	13.032	0.000	99	120482	0.1880	
* 38 Perylene-d12	264	13.147	13.147	0.000	99	173343	0.2500	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00033 Amount Added: 10.00 Units: uL Run Reagent

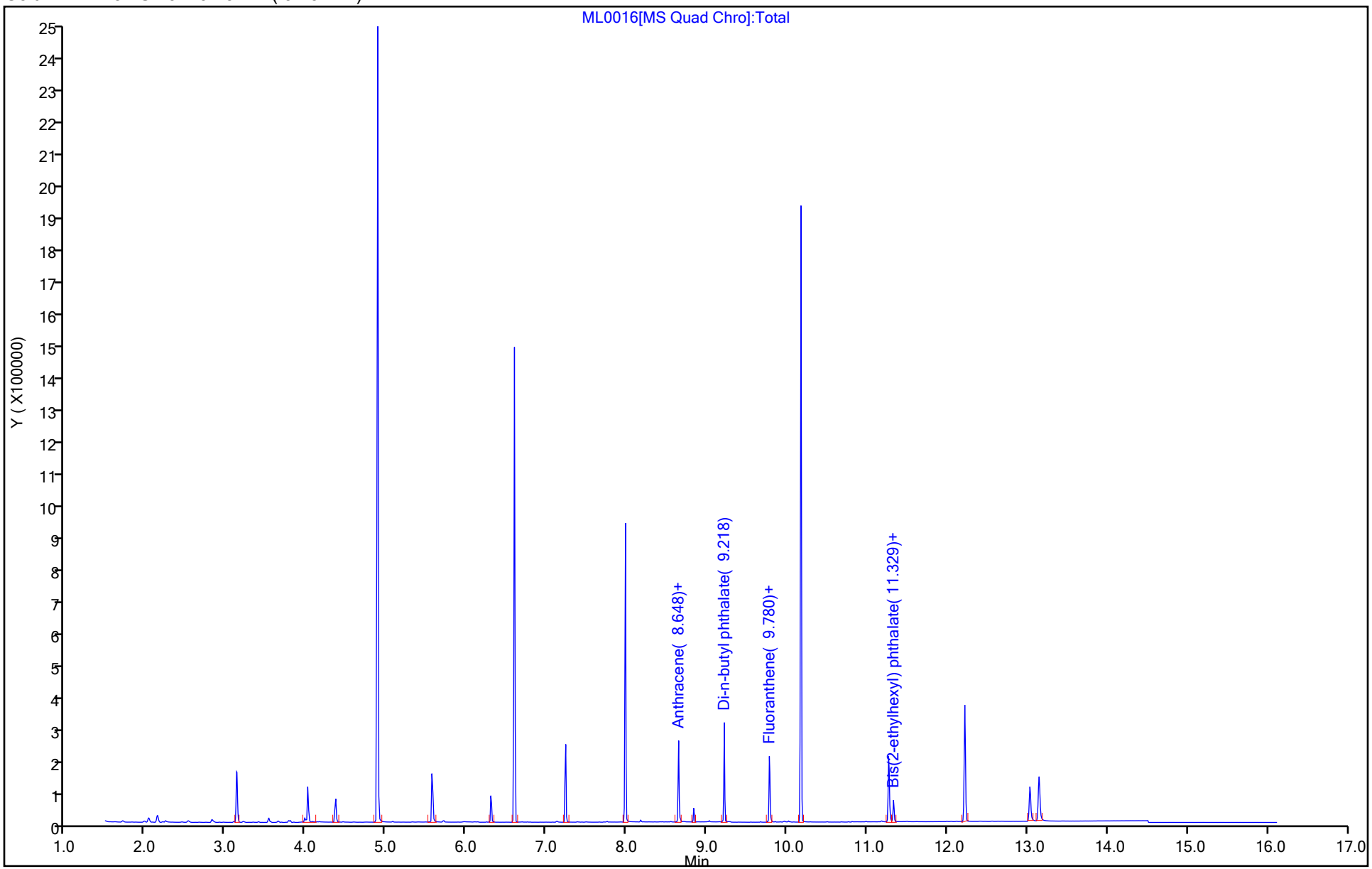
Report Date: 01-Dec-2022 08:50:01 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20221201-72264.b\ML0016.D

Injection Date:	01-Dec-2022 07:47:29	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	410-106360-B-2-A	Lab Sample ID:	410-106360-2	Worklist Smp#:	7
Client ID:	DUP-01_112022				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20221201-72264.b\ML0016.D				
Lims ID:	410-106360-B-2-A				
Client ID:	DUP-01_112022				
Sample Type:	Client				
Inject. Date:	01-Dec-2022 07:47:29	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-106360-B-2-A				
Misc. Info.:	410-0072264-007				
Operator ID:	jmg00346	Instrument ID:	HP21585		
Method:	\\chromfs\Lancaster\ChromData\HP21585\20221201-72264.b\8270_SIM_HP21585.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	01-Dec-2022 08:49:37	Calib Date:	28-Jul-2022 21:32:00		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP21585\20220728-62933.b\MG1356.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1611				

First Level Reviewer: UJM0 Date: 01-Dec-2022 08:08:09

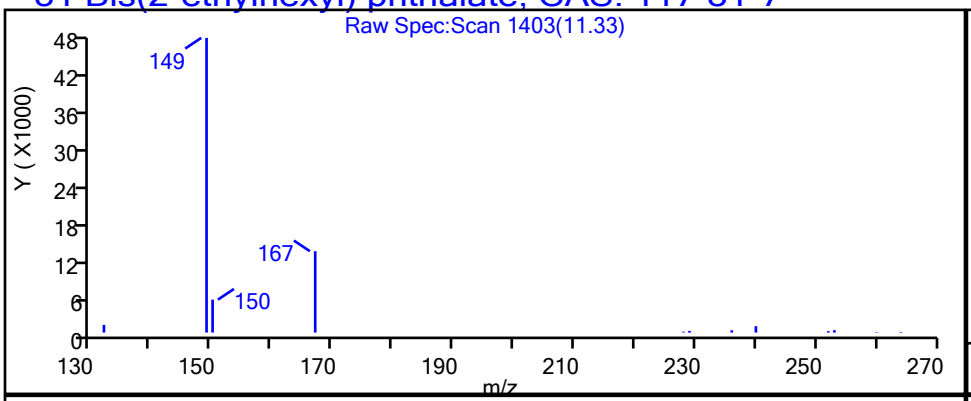
Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1-Methylnaphthalene-d10	0.2500	0.1902	76.07
$ 24 Fluoranthene-d10 (Surr)	0.2500	0.2038	81.53
$ 36 Benzo(a)pyrene-d12 (Surr)	0.2500	0.1880	75.21

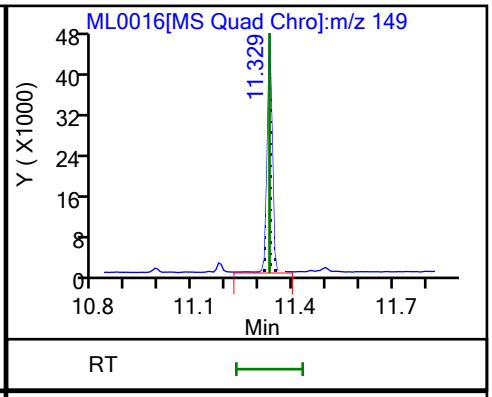
Report Date: 01-Dec-2022 08:50:02 Chrom Revision: 2.3 22-Nov-2022 16:59:54

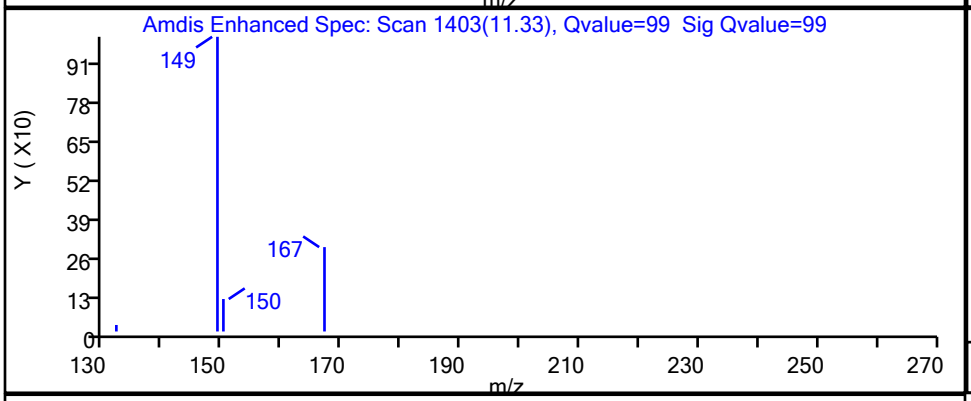
Eurofins Lancaster Laboratories Environment Testing, LLC

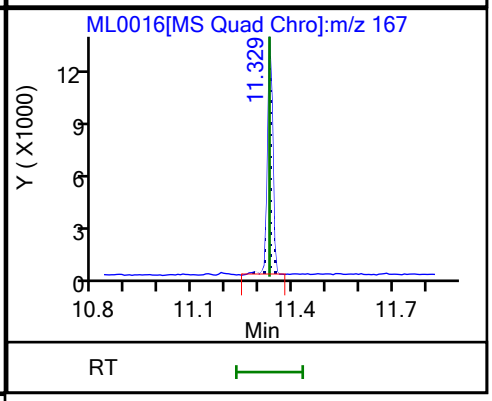
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20221201-72264.b\ML0016.D				
Injection Date:	01-Dec-2022 07:47:29	Instrument ID:	HP21585		
Lims ID:	410-106360-B-2-A	Lab Sample ID:	410-106360-2		
Client ID:	DUP-01_112022				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

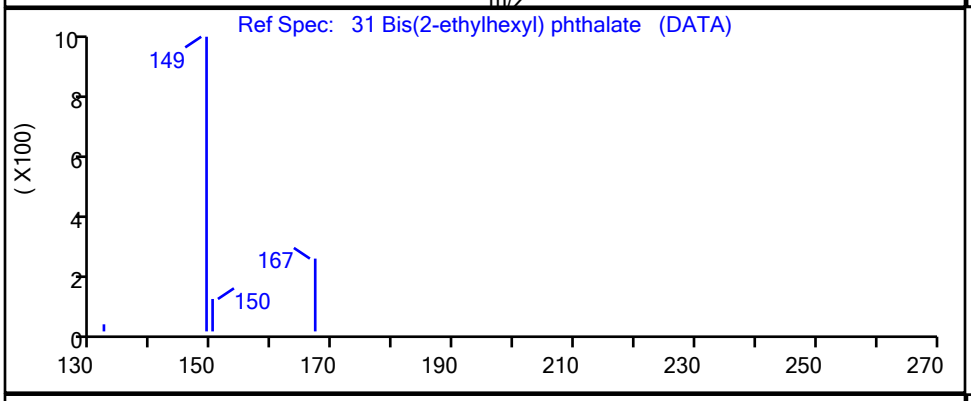
31 Bis(2-ethylhexyl) phthalate, CAS: 117-81-7

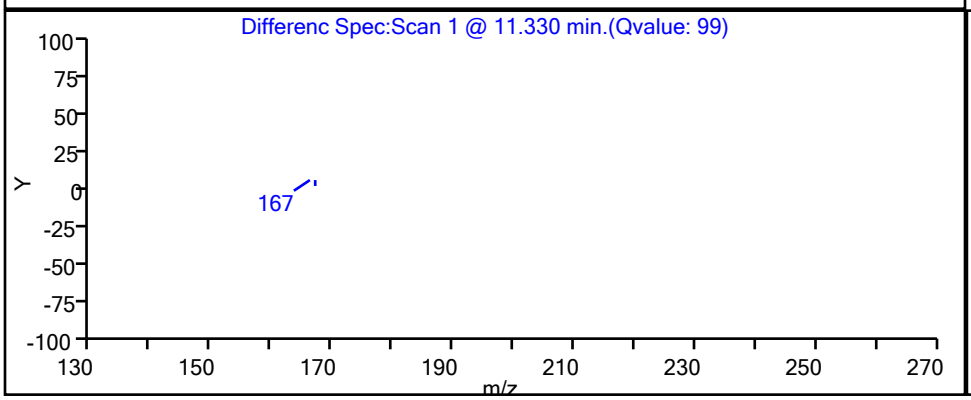


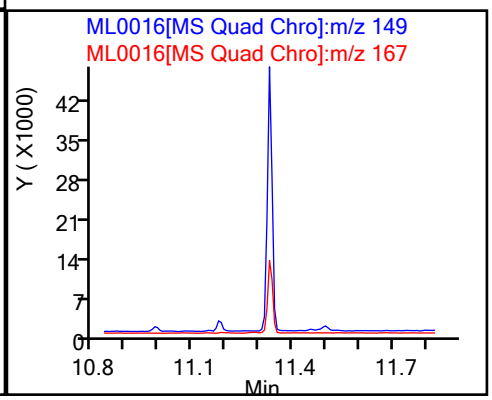












FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-106360-1

SDG No.:

Client Sample ID: DUP-01_112022 RE
Lab Sample ID: 410-106360-2 RE

Matrix: Water
Lab File ID: NL0176.D

Analysis Method: 8270D SIM
Date Collected: 11/17/2022 12:00

Extract. Method: 3510C
Date Extracted: 12/03/2022 03:22

Sample wt/vol: 224.6(mL)
Date Analyzed: 12/05/2022 10:49

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 323522
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND	H	0.33	0.11
90-12-0	1-Methylnaphthalene	ND	H	0.056	0.022
91-57-6	2-Methylnaphthalene	ND	H	0.056	0.022
83-32-9	Acenaphthene	ND	H	0.056	0.011
208-96-8	Acenaphthylene	ND	H	0.056	0.011
120-12-7	Anthracene	ND	H	0.056	0.011
56-55-3	Benzo[a]anthracene	ND	H	0.056	0.011
50-32-8	Benzo[a]pyrene	ND	H	0.056	0.011
205-99-2	Benzo[b]fluoranthene	ND	H	0.056	0.011
191-24-2	Benzo[g,h,i]perylene	ND	H	0.056	0.011
207-08-9	Benzo[k]fluoranthene	ND	H	0.056	0.011
111-44-4	Bis(2-chloroethyl)ether	ND	H	0.056	0.022
117-81-7	Bis(2-ethylhexyl) phthalate	0.17	J H B	1.1	0.056
85-68-7	Butylbenzylphthalate	ND	H	1.1	0.056
218-01-9	Chrysene	ND	H	0.056	0.011
53-70-3	Dibenz(a,h)anthracene	ND	H	0.056	0.022
132-64-9	Dibenzofuran	ND	H	0.056	0.011
84-66-2	Diethylphthalate	ND	H	1.1	0.056
131-11-3	Dimethylphthalate	ND	H *1	1.1	0.056
84-74-2	Di-n-butyl phthalate	3.0	H B * + *1	1.1	0.056
117-84-0	Di-n-octyl phthalate	ND	H	1.1	0.056
206-44-0	Fluoranthene	ND	H	0.056	0.011
86-73-7	Fluorene	ND	H	0.056	0.011
118-74-1	Hexachlorobenzene	ND	H	0.056	0.022
193-39-5	Indeno[1,2,3-cd]pyrene	ND	H	0.056	0.022
91-20-3	Naphthalene	ND	H	0.078	0.033
62-75-9	N-Nitrosodimethylamine	ND	H	0.056	0.022
85-01-8	Phenanthrene	ND	H	0.078	0.033
129-00-0	Pyrene	ND	H	0.056	0.011

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-106360-1

SDG No.:

Client Sample ID: DUP-01_112022 RE Lab Sample ID: 410-106360-2 RE

Matrix: Water Lab File ID: NL0176.D

Analysis Method: 8270D SIM Date Collected: 11/17/2022 12:00

Extract. Method: 3510C Date Extracted: 12/03/2022 03:22

Sample wt/vol: 224.6(mL) Date Analyzed: 12/05/2022 10:49

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor: Level: (low/med) Low

Analysis Batch No.: 323522 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
38072-94-5	1-Methylnaphthalene-d10 (Surr)	54		36-111
63466-71-7	Benzo(a)pyrene-d12 (Surr)	72		10-110
93951-69-0	Fluoranthene-d10 (Surr)	79		47-128

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\NL0176.D
Lims ID: 410-106360-C-2-A RE
Client ID: DUP-01_112022
Sample Type: Client
Inject. Date: 05-Dec-2022 10:49:30 ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-106360-C-2-A
Misc. Info.: 410-0072499-017
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 05-Dec-2022 16:00:35 Calib Date: 05-Oct-2022 11:42:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0026.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1618

First Level Reviewer: SJ89 Date: 05-Dec-2022 15:12:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	4.556	4.556	0.000	99	40822	0.2500	
* 5 Naphthalene-d8	136	5.768	5.768	0.000	100	136812	0.2500	
$ 9 1-Methylnaphthalene-d10	152	6.508	6.505	0.003	98	33721	0.1340	
* 13 Acenaphthene-d10	164	7.439	7.437	0.002	97	55268	0.2500	
16 Diethyl phthalate	149	7.853	7.853	-0.005	88	2137	0.008857	
* 20 Phenanthrene-d10	188	8.849	8.854	-0.005	100	82937	0.2500	
23 Di-n-butyl phthalate	149	9.419	9.411	0.003	100	193581	0.6724	
$ 24 Fluoranthene-d10 (Surr)	212	9.983	9.981	-0.004	100	59779	0.1977	
* 29 Chrysene-d12	240	11.517	11.513	0.004	82	47682	0.2500	
31 Bis(2-ethylhexyl) phthalate	149	11.571	11.578	-0.004	98	4194	0.0389	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.358	13.358	-0.003	97	31232	0.1801	
* 38 Perylene-d12	264	13.473	13.476	-0.003	98	45158	0.2500	

QC Flag Legend
Processing Flags

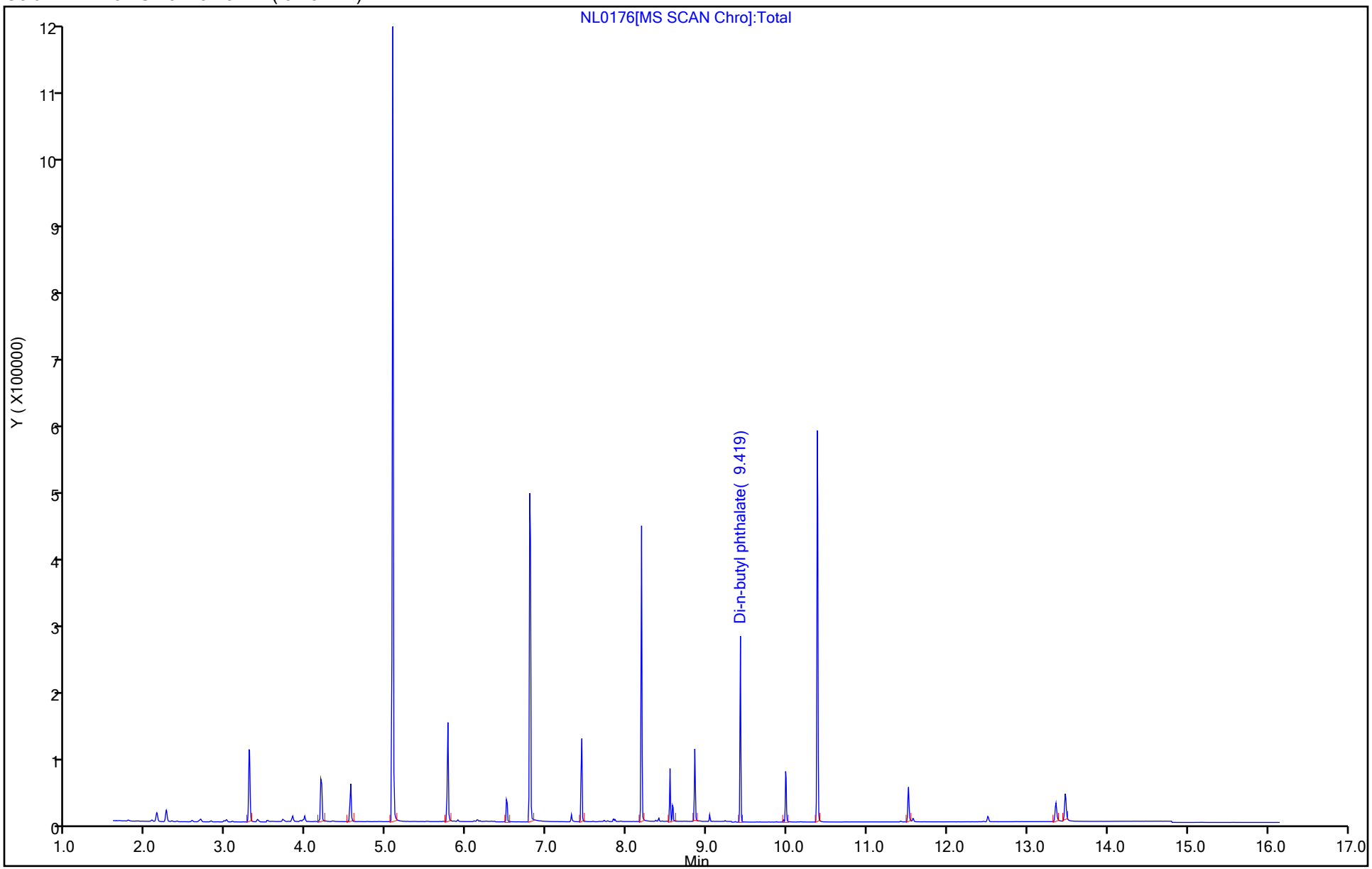
Reagents:
MSS_RVSIM_IS_00032 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 05-Dec-2022 16:00:38 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\NL0176.D				
Injection Date:	05-Dec-2022 10:49:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	410-106360-C-2-A RE	Lab Sample ID:	410-106360-2	Worklist Smp#:	17
Client ID:	DUP-01_112022				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\NL0176.D				
Lims ID:	410-106360-C-2-A RE				
Client ID:	DUP-01_112022				
Sample Type:	Client				
Inject. Date:	05-Dec-2022 10:49:30	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-106360-C-2-A				
Misc. Info.:	410-0072499-017				
Operator ID:	jmg00346	Instrument ID:	HP23263		
Method:	\\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\8270_SIM_HP23263.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	05-Dec-2022 16:00:35	Calib Date:	05-Oct-2022 11:42:30		
Integrator:	Falcon	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0026.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1618				

First Level Reviewer: SJ89 Date: 05-Dec-2022 15:12:04

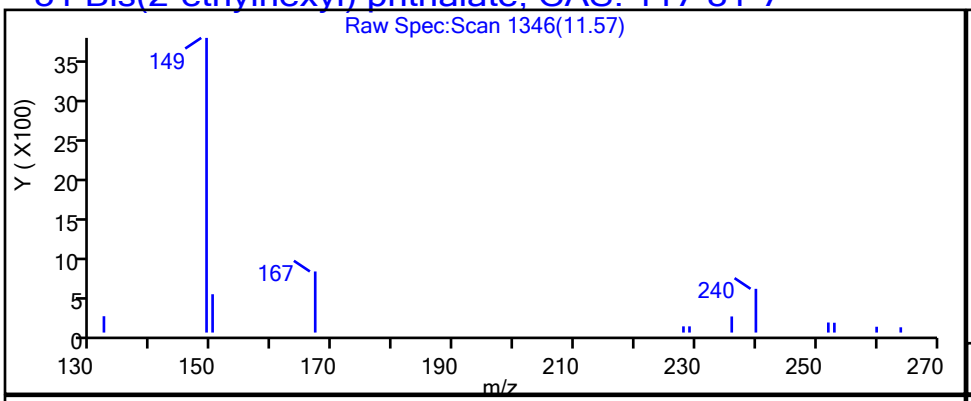
Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1-Methylnaphthalene-d10	0.2500	0.1340	53.60
$ 24 Fluoranthene-d10 (Surr)	0.2500	0.1977	79.09
$ 36 Benzo(a)pyrene-d12 (Surr)	0.2500	0.1801	72.06

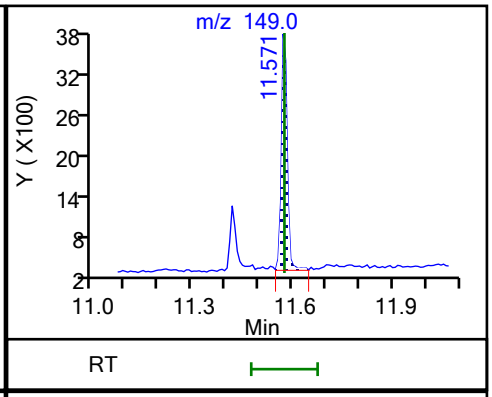
Report Date: 05-Dec-2022 16:00:38 Chrom Revision: 2.3 01-Dec-2022 08:01:02

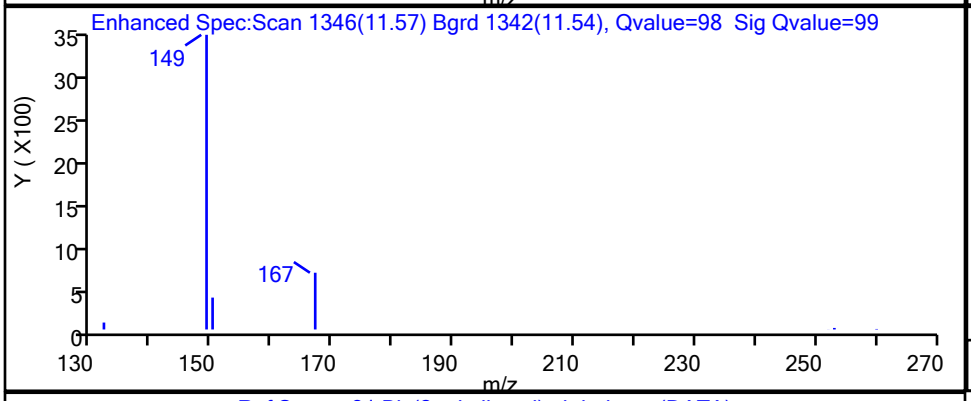
Eurofins Lancaster Laboratories Environment Testing, LLC

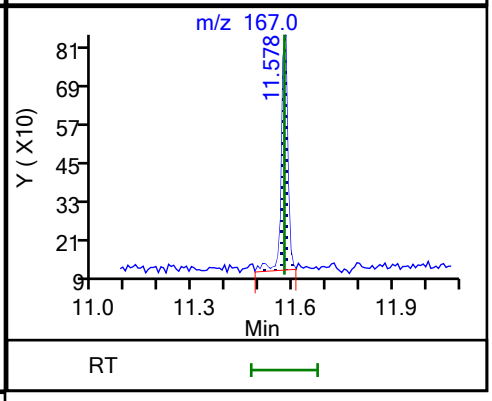
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\NL0176.D				
Injection Date:	05-Dec-2022 10:49:30	Instrument ID:	HP23263		
Lims ID:	410-106360-C-2-A RE	Lab Sample ID:	410-106360-2		
Client ID:	DUP-01_112022				
Operator ID:	jmg00346	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

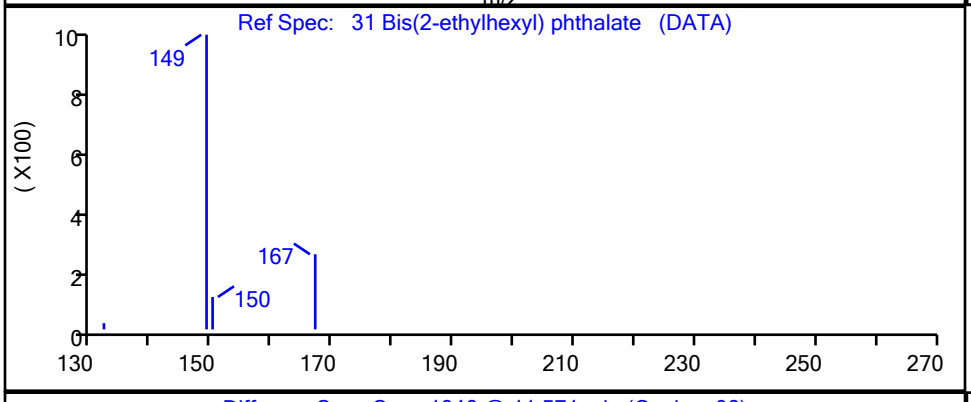
31 Bis(2-ethylhexyl) phthalate, CAS: 117-81-7

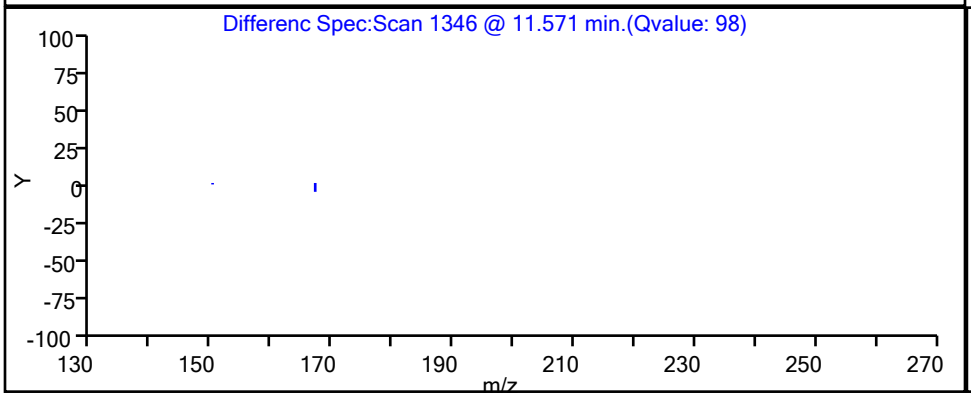


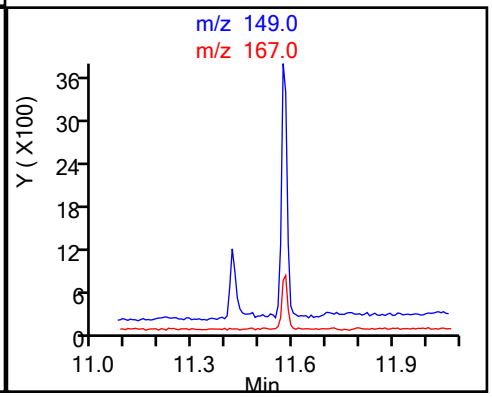










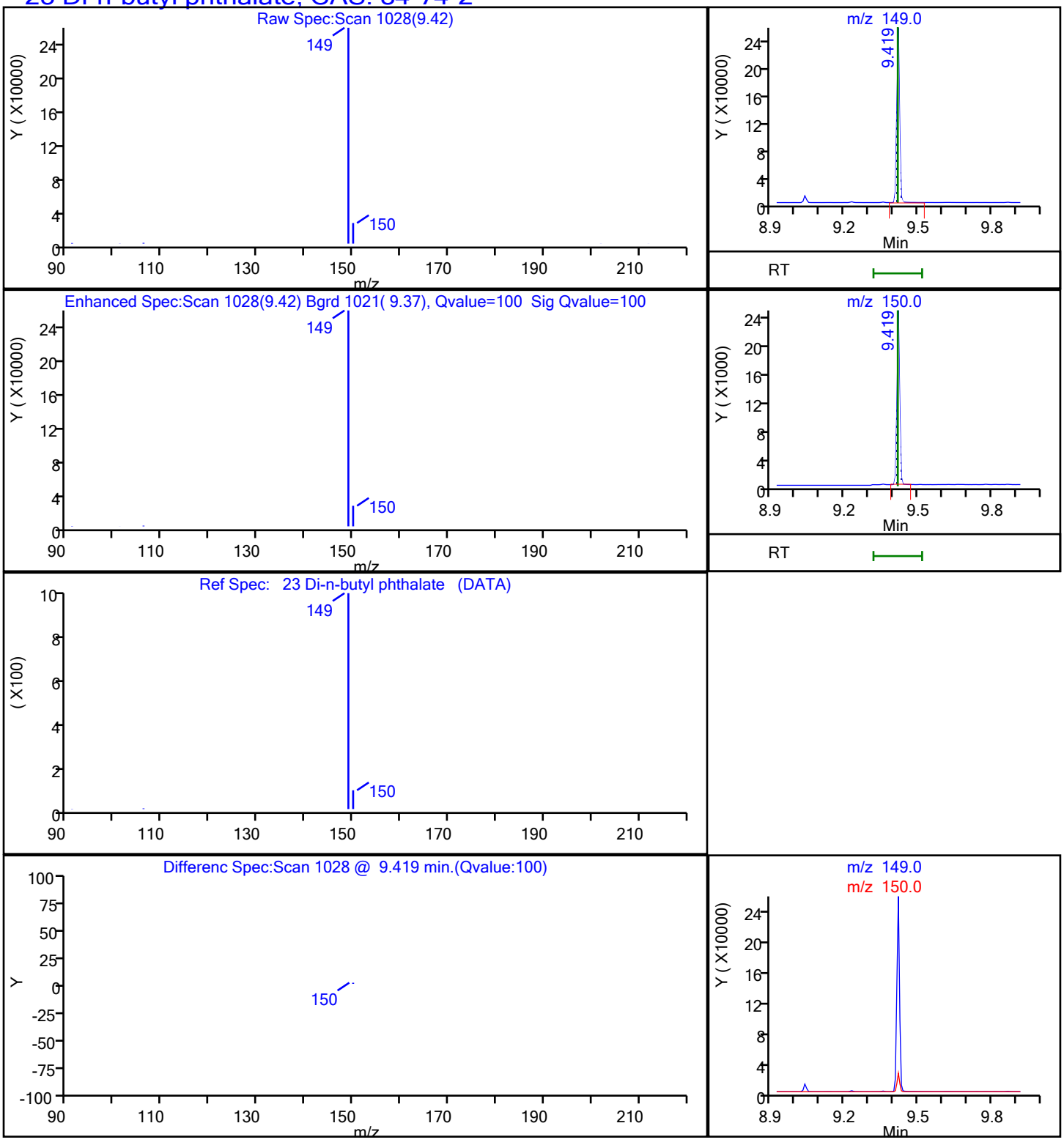


Report Date: 05-Dec-2022 16:00:38 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\NL0176.D				
Injection Date:	05-Dec-2022 10:49:30	Instrument ID:	HP23263		
Lims ID:	410-106360-C-2-A RE	Lab Sample ID:	410-106360-2		
Client ID:	DUP-01_112022				
Operator ID:	jmg00346	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

23 Di-n-butyl phthalate, CAS: 84-74-2



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-106360-1

SDG No.:

Client Sample ID: FBW001_112022
Lab Sample ID: 410-106360-3

Matrix: Water
Lab File ID: NK1412.D

Analysis Method: 8270D SIM
Date Collected: 11/17/2022 10:20

Extract. Method: 3510C
Date Extracted: 11/23/2022 17:30

Sample wt/vol: 242.8(mL)
Date Analyzed: 11/30/2022 09:38

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 321961
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.31	0.10
90-12-0	1-Methylnaphthalene	ND		0.051	0.021
91-57-6	2-Methylnaphthalene	ND		0.051	0.021
83-32-9	Acenaphthene	ND		0.051	0.010
208-96-8	Acenaphthylene	ND		0.051	0.010
120-12-7	Anthracene	0.013	J	0.051	0.010
56-55-3	Benzo[a]anthracene	0.019	J	0.051	0.010
50-32-8	Benzo[a]pyrene	0.011	J	0.051	0.010
205-99-2	Benzo[b]fluoranthene	0.015	J	0.051	0.010
191-24-2	Benzo[g,h,i]perylene	0.014	J	0.051	0.010
207-08-9	Benzo[k]fluoranthene	0.012	J	0.051	0.010
111-44-4	Bis(2-chloroethyl)ether	ND		0.051	0.021
85-68-7	Butylbenzylphthalate	ND	cn	1.0	0.051
218-01-9	Chrysene	0.017	J	0.051	0.010
53-70-3	Dibenz(a,h)anthracene	ND		0.051	0.021
132-64-9	Dibenzofuran	0.010	J	0.051	0.010
84-66-2	Diethylphthalate	ND		1.0	0.051
131-11-3	Dimethylphthalate	ND		1.0	0.051
84-74-2	Di-n-butyl phthalate	0.60	J *+ F1 B *1 cn	1.0	0.051
117-84-0	Di-n-octyl phthalate	ND		1.0	0.051
206-44-0	Fluoranthene	0.018	J	0.051	0.010
86-73-7	Fluorene	0.012	J	0.051	0.010
118-74-1	Hexachlorobenzene	ND		0.051	0.021
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.051	0.021
91-20-3	Naphthalene	ND		0.072	0.031
62-75-9	N-Nitrosodimethylamine	ND		0.051	0.021
85-01-8	Phenanthrene	ND		0.072	0.031
129-00-0	Pyrene	0.021	J	0.051	0.010

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-106360-1

SDG No.:

Client Sample ID: FBW001_112022 Lab Sample ID: 410-106360-3

Matrix: Water Lab File ID: NK1412.D

Analysis Method: 8270D SIM Date Collected: 11/17/2022 10:20

Extract. Method: 3510C Date Extracted: 11/23/2022 17:30

Sample wt/vol: 242.8(mL) Date Analyzed: 11/30/2022 09:38

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor: Level: (low/med) Low

Analysis Batch No.: 321961 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
38072-94-5	1-Methylnaphthalene-d10 (Surr)	71		36-111
63466-71-7	Benzo(a)pyrene-d12 (Surr)	54		10-110
93951-69-0	Fluoranthene-d10 (Surr)	63		47-128

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1412.D
Lims ID: 410-106360-B-3-C
Client ID: FBW001_112022
Sample Type: Client
Inject. Date: 30-Nov-2022 09:38:30 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-106360-B-3-C
Misc. Info.: 410-0072166-013
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 01-Dec-2022 04:31:08 Calib Date: 05-Oct-2022 11:42:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0026.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: UJM0 Date: 01-Dec-2022 04:25:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	4.568	4.568	0.000	96	47513	0.2500	
* 5 Naphthalene-d8	136	5.768	5.768	0.000	99	154789	0.2500	
6 Naphthalene	128	5.793	5.805	0.000	77	3361	0.005360	
8 2-Methylnaphthalene	142	6.448	6.448	0.000	94	1128	0.002827	M
$ 9 1-Methylnaphthalene-d10	152	6.508	6.522	0.000	100	50792	0.1784	
10 1-Methylnaphthalene	142	6.538	6.552	0.000	90	829	0.002323	M
* 13 Acenaphthene-d10	164	7.439	7.439	0.000	88	70960	0.2500	
14 Acenaphthene	154	7.469	7.469	0.000	68	653	0.001832	M
15 Dibenzofuran	168	7.640	7.650	0.000	73	1327	0.002473	
17 Fluorene	166	7.961	7.971	0.000	99	1143	0.002906	
19 Hexachlorobenzene	284	8.478	8.486	0.000	90	367	0.003279	
* 20 Phenanthrene-d10	188	8.857	8.849	0.008	100	103006	0.2500	
21 Phenanthrene	178	8.872	8.880	0.000	98	2640	0.005409	
22 Anthracene	178	8.926	8.934	0.000	99	1465	0.003241	
23 Di-n-butyl phthalate	149	9.419	9.427	0.000	100	52258	0.1462	
$ 24 Fluoranthene-d10 (Surr)	212	9.989	10.008	0.000	98	59225	0.1577	
25 Fluoranthene	202	10.008	10.008	0.000	94	1937	0.004286	M
26 Pyrene	202	10.221	10.221	0.000	98	2101	0.005194	
27 Butyl benzyl phthalate	149	10.896	10.903	0.001	100	423	0.004100	7M
28 Benzo[a]anthracene	228	11.509	11.509	0.008	6	1325	0.004493	M
* 29 Chrysene-d12	240	11.517	11.517	0.000	81	54155	0.2500	M
30 Chrysene	228	11.547	11.555	0.000	100	1295	0.004221	
31 Bis(2-ethylhexyl) phthalate	149	11.578	11.578	0.000	99	3894	0.0318	M
33 Benzo[b]fluoranthene	252	12.936	12.936	0.008	99	932	0.003550	
34 Benzo[k]fluoranthene	252	12.974	12.974	0.000	99	874	0.003028	M
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.365	13.365	0.000	97	23742	0.1359	
37 Benzo[a]pyrene	252	13.396	13.403	0.000	100	618	0.002627	M
* 38 Perylene-d12	264	13.480	13.480	0.000	98	45498	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	15.125	15.118	0.014	98	560	0.002999	M
41 Dibenz(a,h)anthracene	278	15.181	15.176	0.014	98	482	0.002428	7M
42 Benzo[g,h,i]perylene	276	15.584	15.579	0.014	98	805	0.003503	M

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

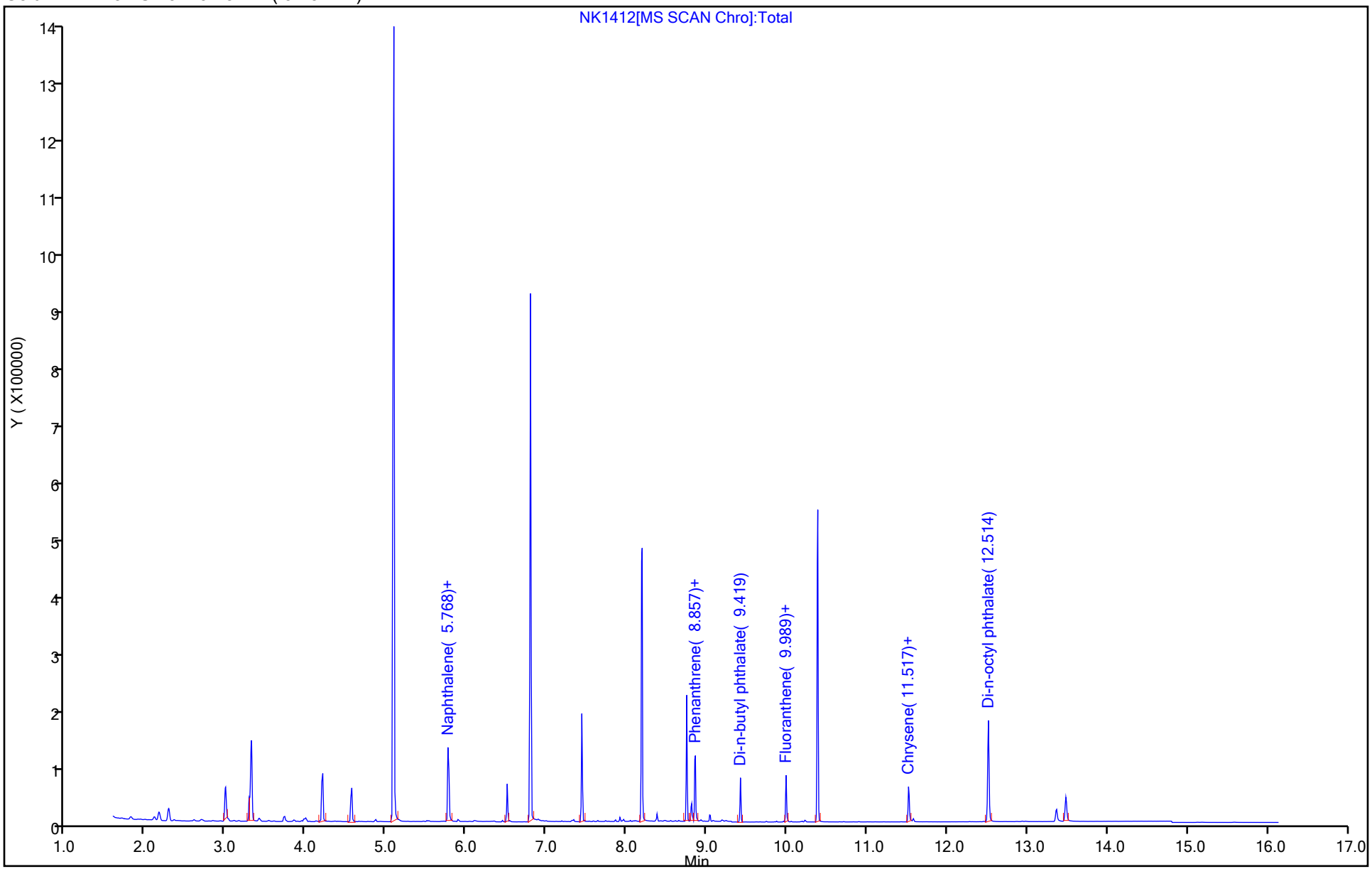
MSS_RVSIM_IS_00032	Amount Added:	10.00	Units: uL	Run Reagent

Report Date: 01-Dec-2022 04:31:49 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1412.D				
Injection Date:	30-Nov-2022 09:38:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	410-106360-B-3-C	Lab Sample ID:	410-106360-3	Worklist Smp#:	13
Client ID:	FBW001_112022				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1412.D				
Lims ID:	410-106360-B-3-C				
Client ID:	FBW001_112022				
Sample Type:	Client				
Inject. Date:	30-Nov-2022 09:38:30	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-106360-B-3-C				
Misc. Info.:	410-0072166-013				
Operator ID:	jmg00346	Instrument ID:	HP23263		
Method:	\\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\8270_SIM_HP23263.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	01-Dec-2022 04:31:08	Calib Date:	05-Oct-2022 11:42:30		
Integrator:	Falcon	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0026.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1611				

First Level Reviewer: UJM0 Date: 01-Dec-2022 04:25:22

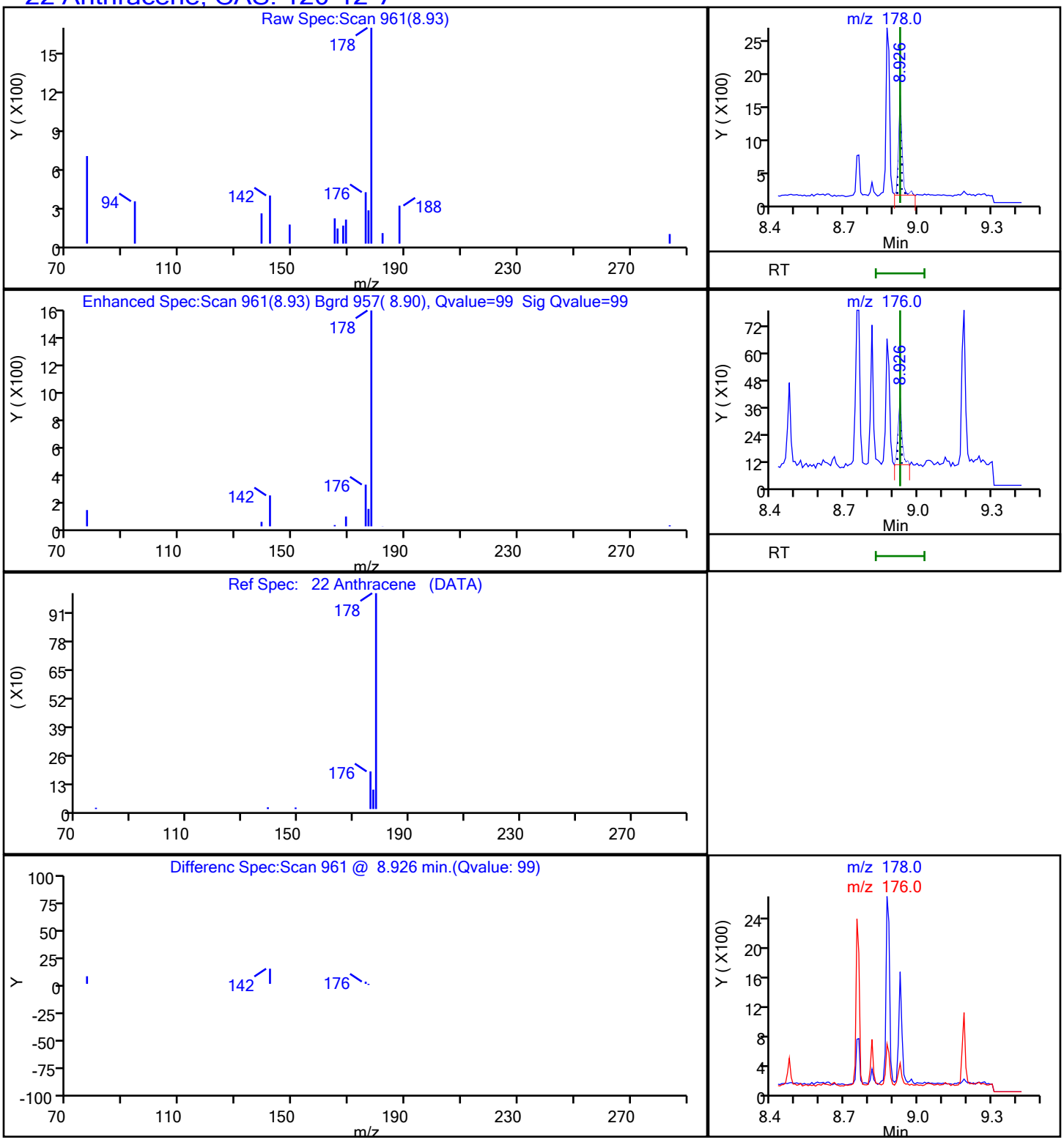
Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1-Methylnaphthalene-d10	0.2500	0.1784	71.36
$ 24 Fluoranthene-d10 (Surr)	0.2500	0.1577	63.09
$ 36 Benzo(a)pyrene-d12 (Surr)	0.2500	0.1359	54.37

Report Date: 01-Dec-2022 04:31:49 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1412.D				
Injection Date:	30-Nov-2022 09:38:30	Instrument ID:	HP23263		
Lims ID:	410-106360-B-3-C	Lab Sample ID:	410-106360-3		
Client ID:	FBW001_112022				
Operator ID:	jmg00346	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

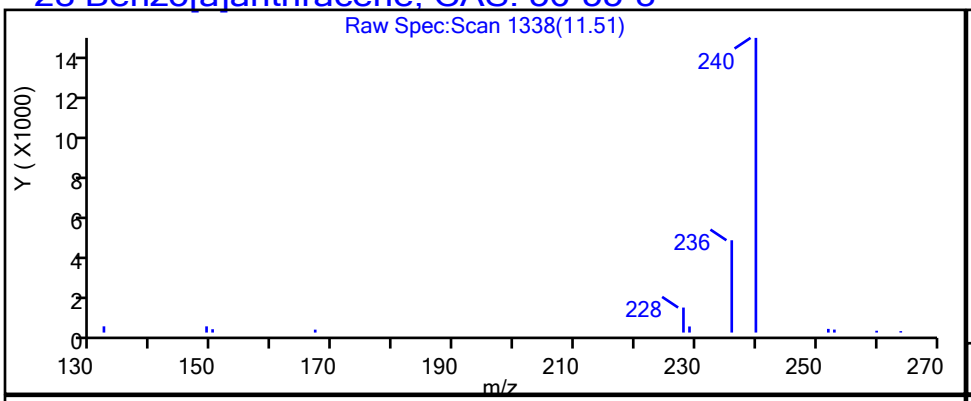
22 Anthracene, CAS: 120-12-7

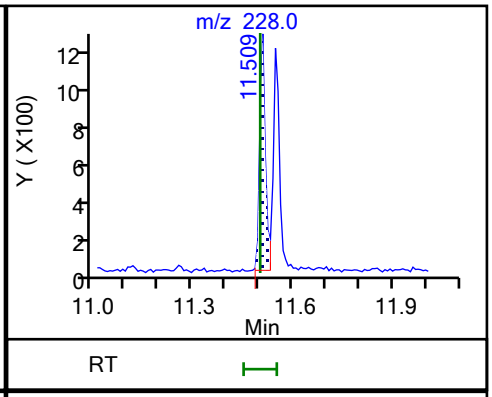


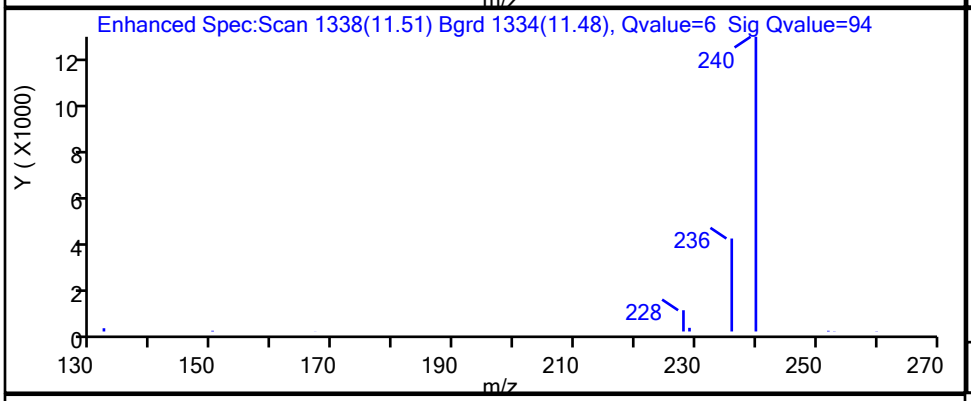
Eurofins Lancaster Laboratories Environment Testing, LLC

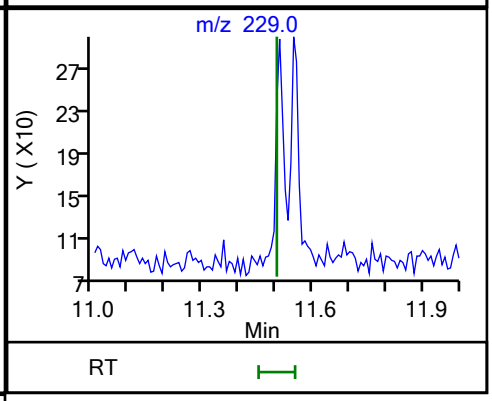
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1412.D				
Injection Date:	30-Nov-2022 09:38:30	Instrument ID:	HP23263		
Lims ID:	410-106360-B-3-C	Lab Sample ID:	410-106360-3		
Client ID:	FBW001_112022				
Operator ID:	jmg00346	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

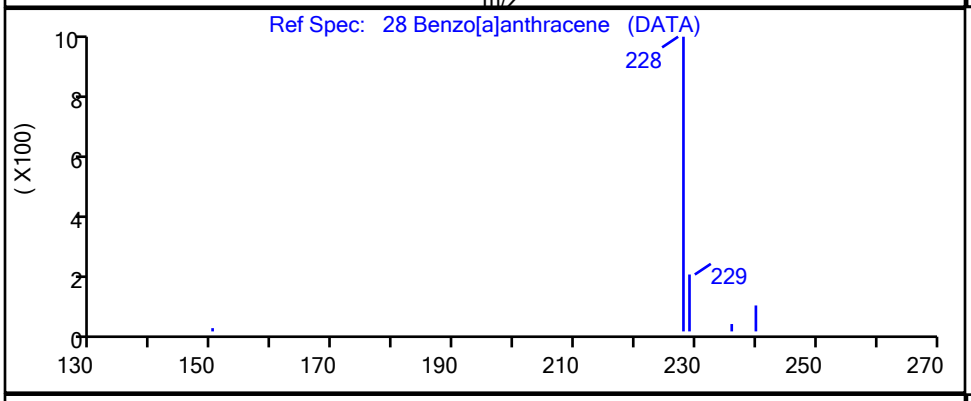
28 Benzo[a]anthracene, CAS: 56-55-3

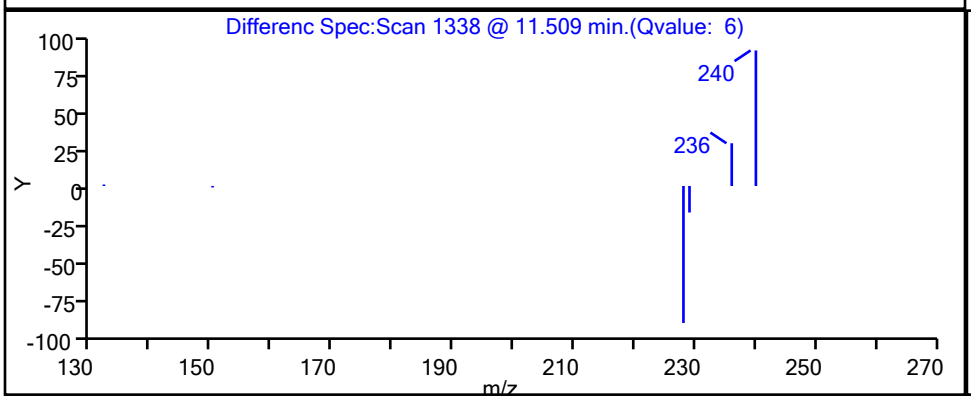


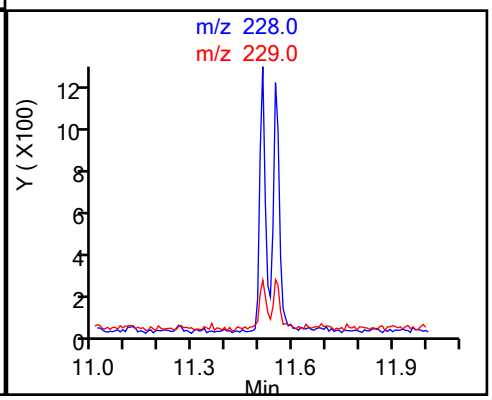










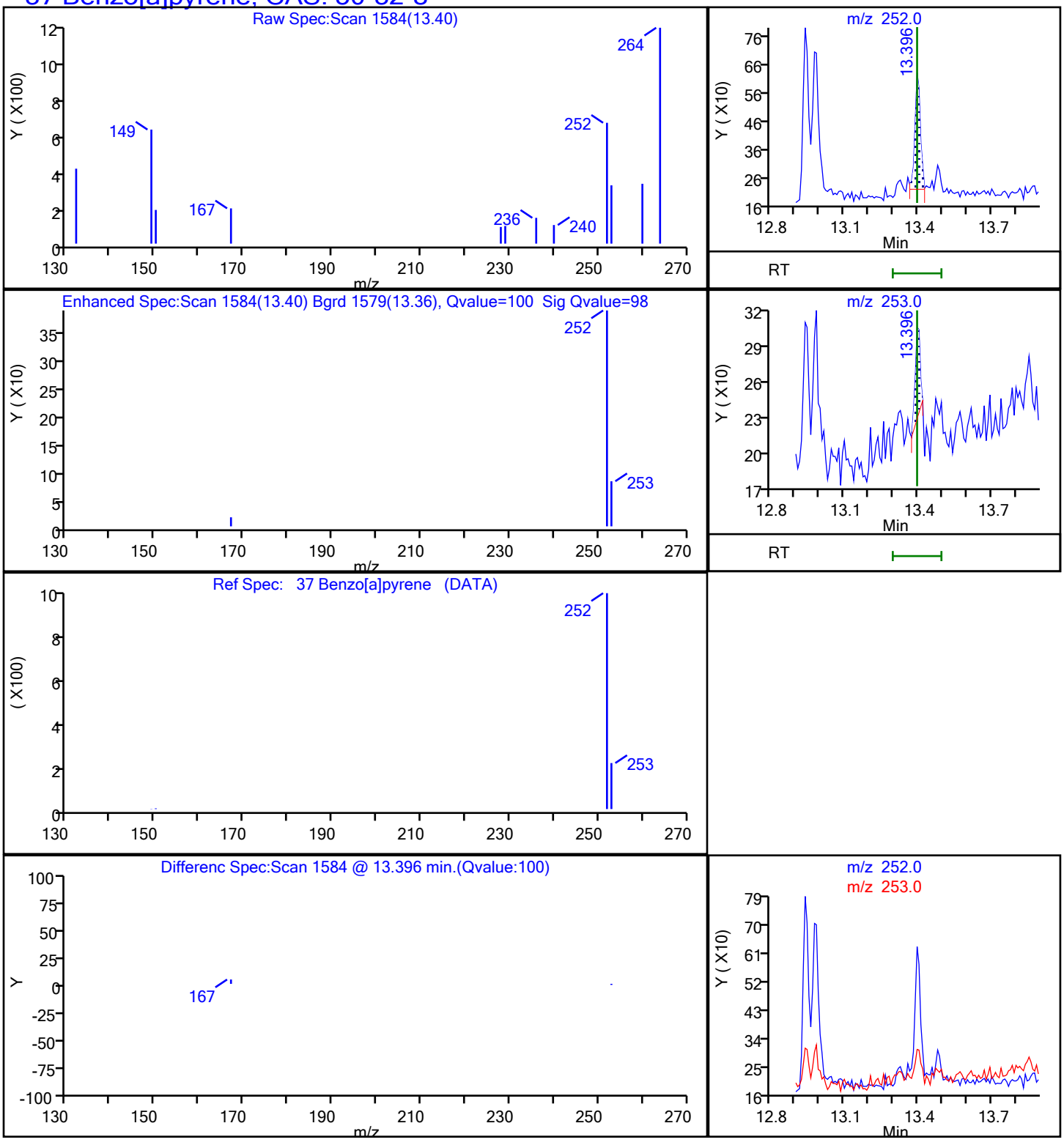


Report Date: 01-Dec-2022 04:31:49 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1412.D				
Injection Date:	30-Nov-2022 09:38:30	Instrument ID:	HP23263		
Lims ID:	410-106360-B-3-C	Lab Sample ID:	410-106360-3		
Client ID:	FBW001_112022				
Operator ID:	jmg00346	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

37 Benzo[a]pyrene, CAS: 50-32-8

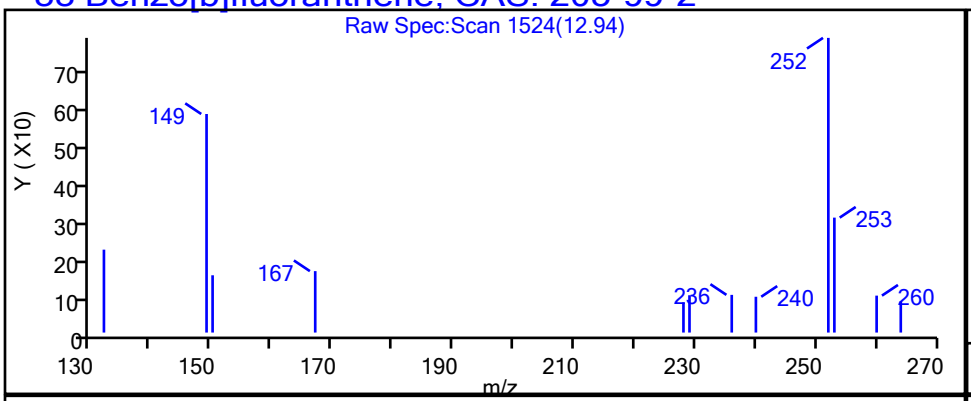


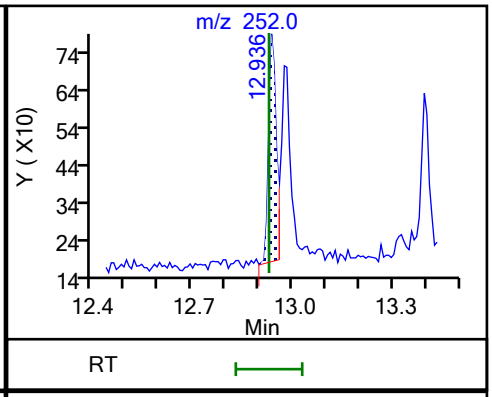
Report Date: 01-Dec-2022 04:31:49 Chrom Revision: 2.3 22-Nov-2022 16:59:54

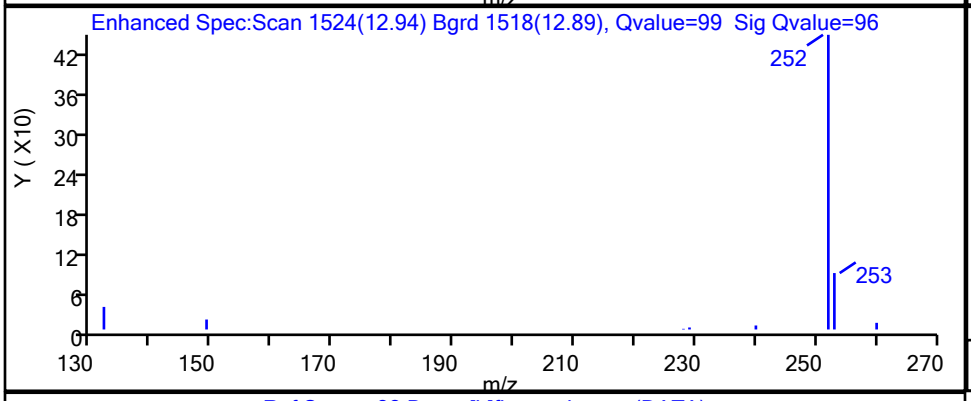
Eurofins Lancaster Laboratories Environment Testing, LLC

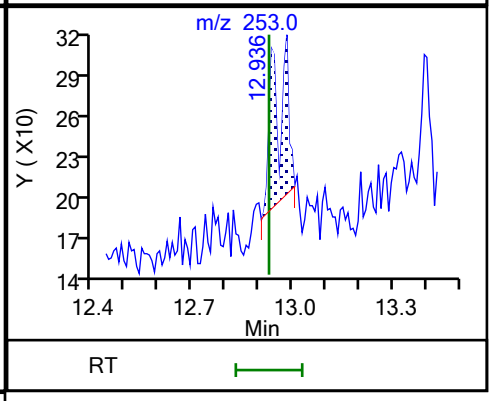
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1412.D				
Injection Date:	30-Nov-2022 09:38:30	Instrument ID:	HP23263		
Lims ID:	410-106360-B-3-C	Lab Sample ID:	410-106360-3		
Client ID:	FBW001_112022				
Operator ID:	jmg00346	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

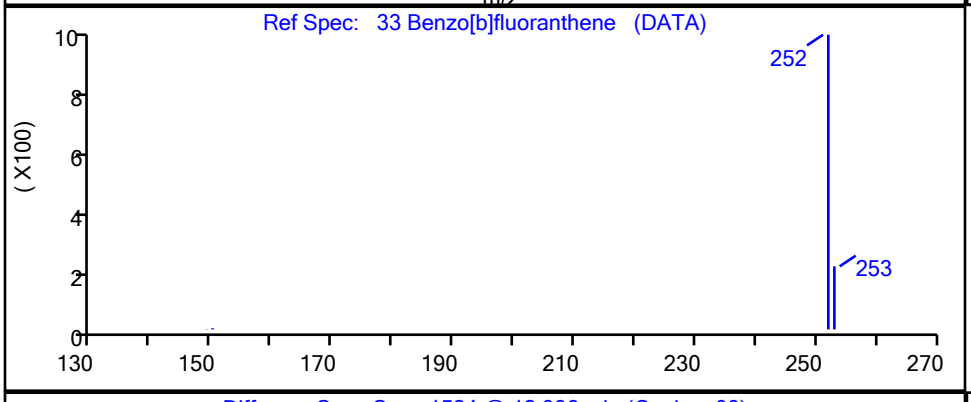
33 Benzo[b]fluoranthene, CAS: 205-99-2

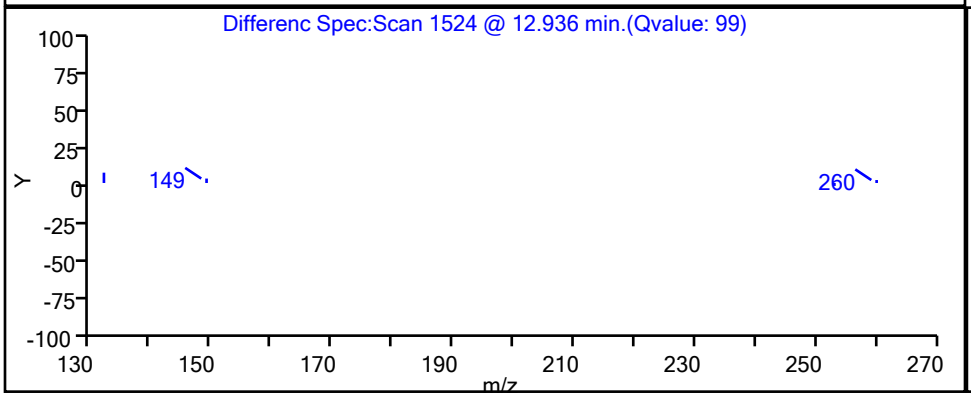


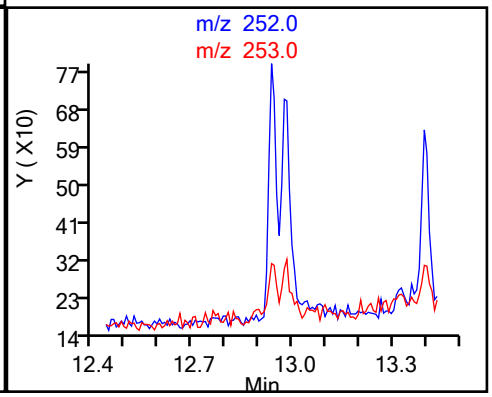










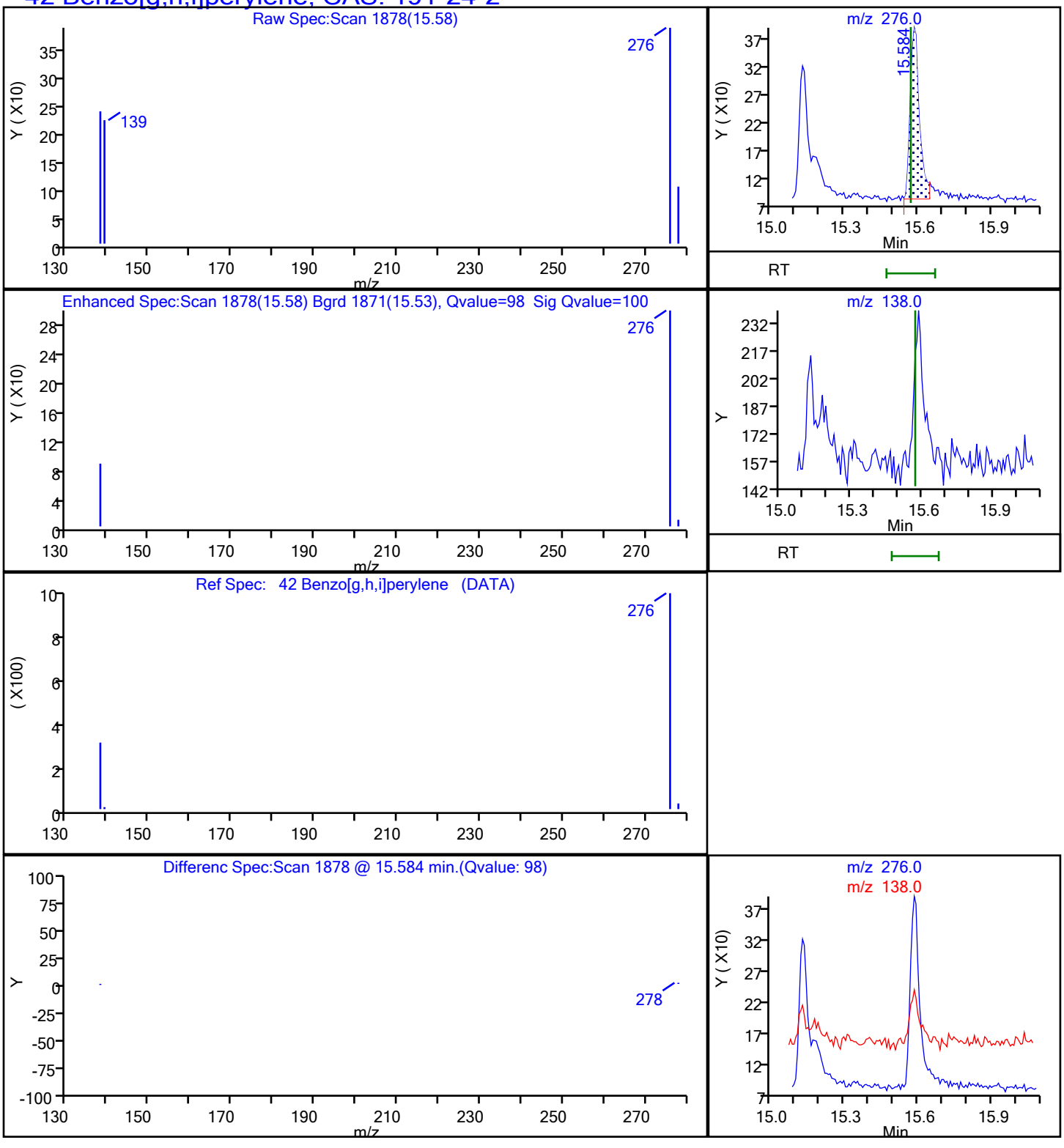


Report Date: 01-Dec-2022 04:31:49 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1412.D				
Injection Date:	30-Nov-2022 09:38:30	Instrument ID:	HP23263		
Lims ID:	410-106360-B-3-C	Lab Sample ID:	410-106360-3		
Client ID:	FBW001_112022				
Operator ID:	jmg00346	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

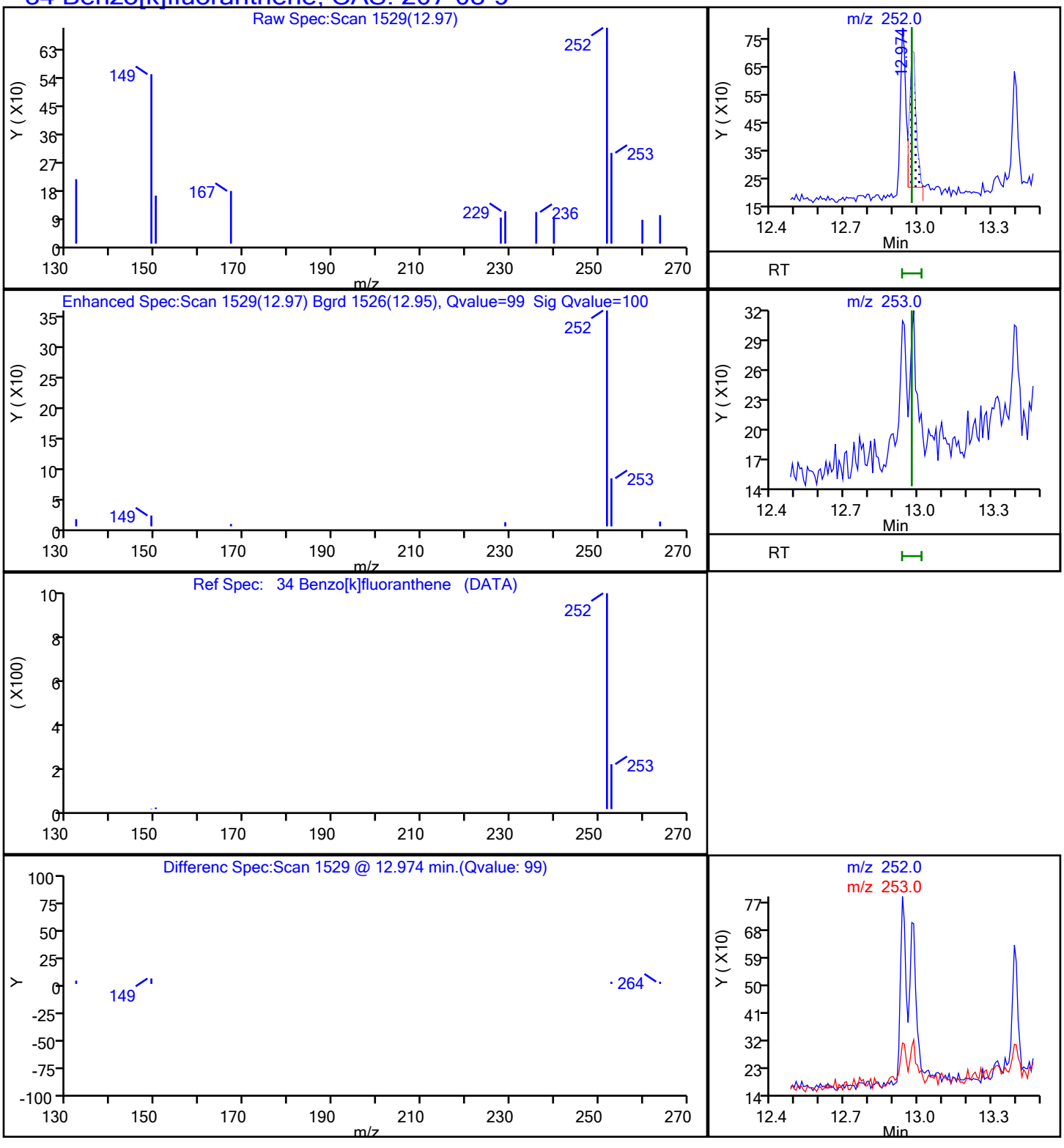
42 Benzo[g,h,i]perylene, CAS: 191-24-2



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1412.D				
Injection Date:	30-Nov-2022 09:38:30	Instrument ID:	HP23263		
Lims ID:	410-106360-B-3-C	Lab Sample ID:	410-106360-3		
Client ID:	FBW001_112022				
Operator ID:	jmg00346	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

34 Benzo[k]fluoranthene, CAS: 207-08-9

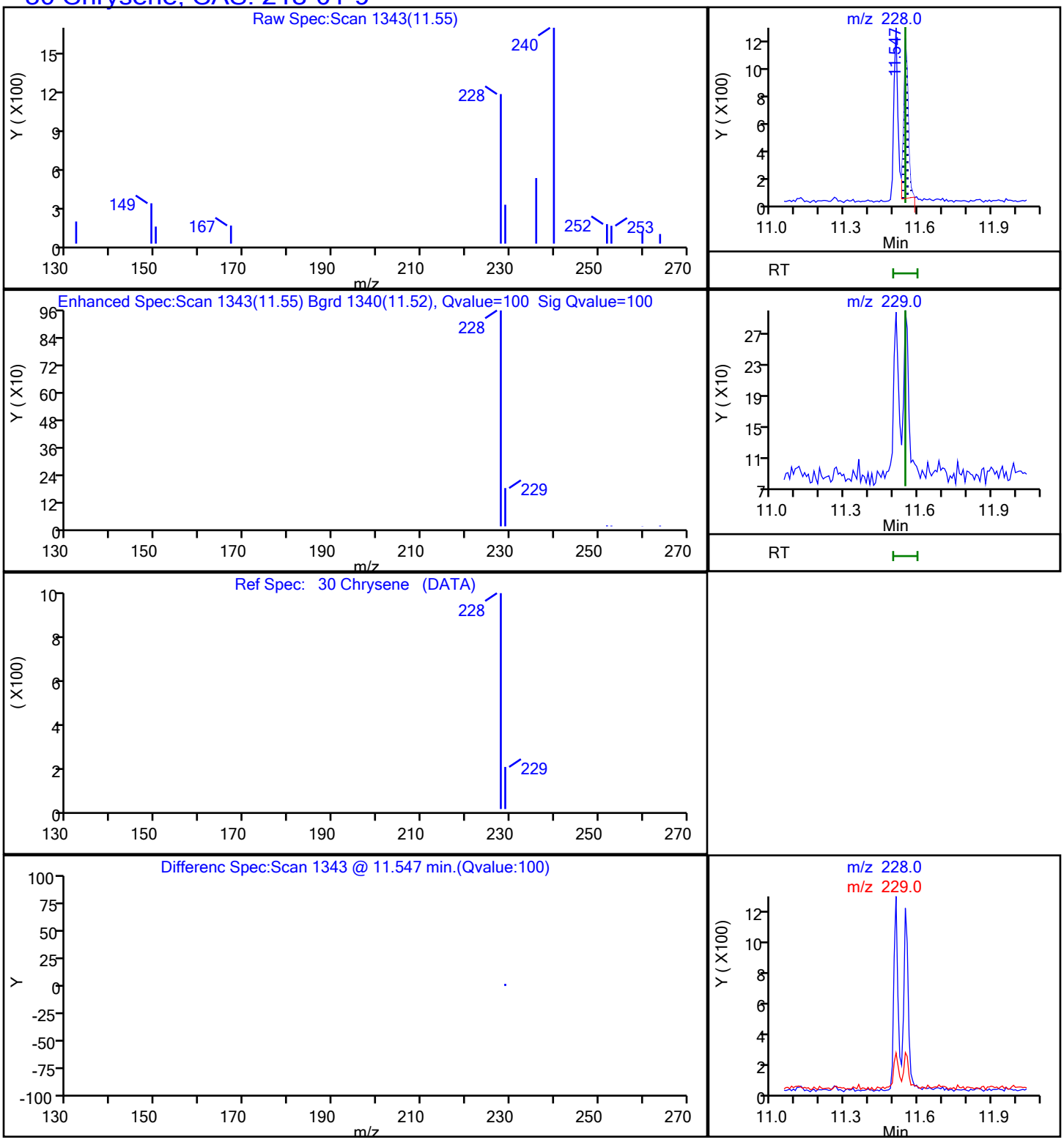


Report Date: 01-Dec-2022 04:31:49 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1412.D				
Injection Date:	30-Nov-2022 09:38:30	Instrument ID:	HP23263		
Lims ID:	410-106360-B-3-C	Lab Sample ID:	410-106360-3		
Client ID:	FBW001_112022				
Operator ID:	jmg00346	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

30 Chrysene, CAS: 218-01-9



Report Date: 01-Dec-2022 04:31:49 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1412.D

Injection Date: 30-Nov-2022 09:38:30 Instrument ID: HP23263

Lims ID: 410-106360-B-3-C Lab Sample ID: 410-106360-3

Client ID: FBW001_112022

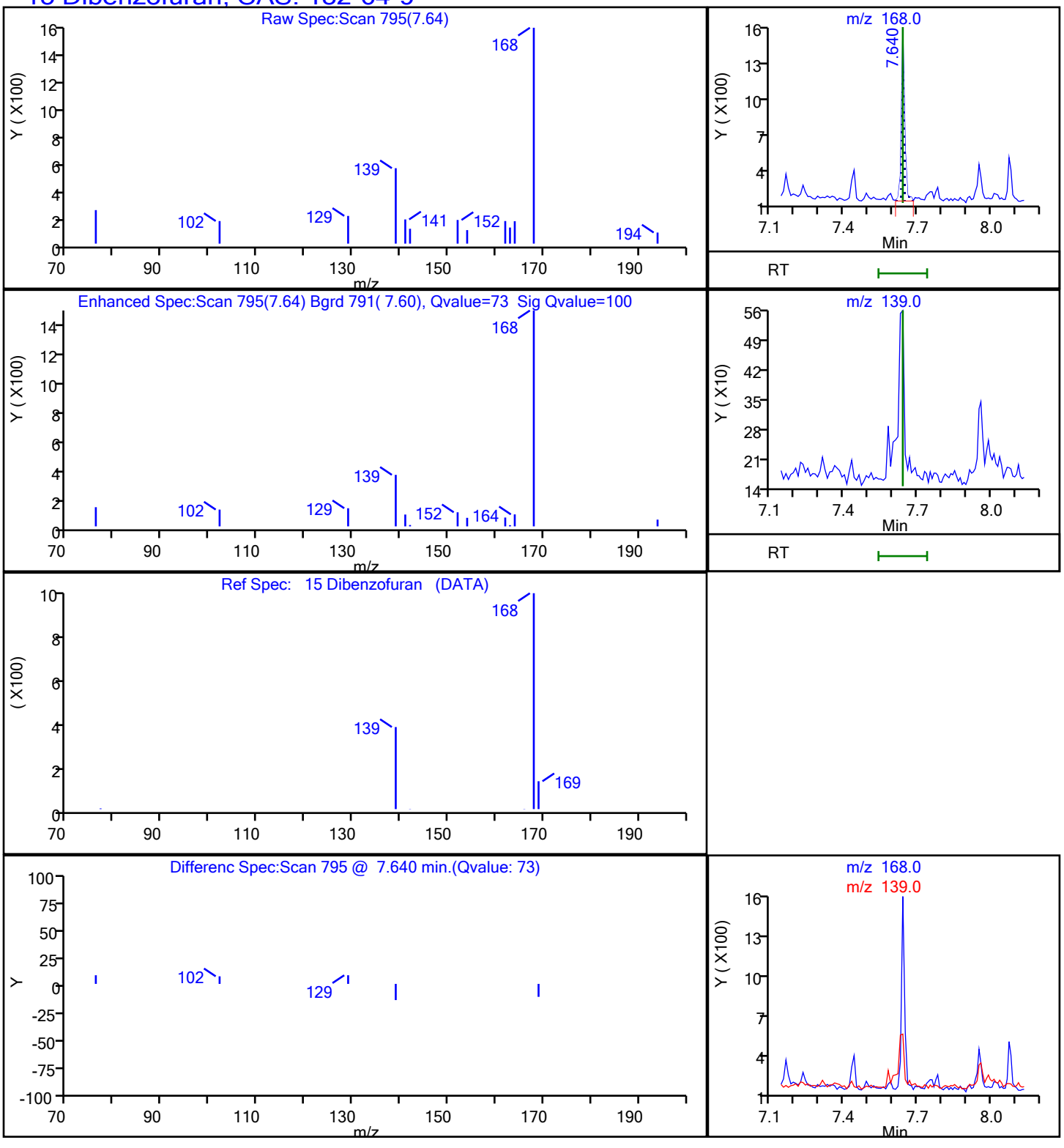
Operator ID: jmg00346 ALS Bottle#: 13 Worklist Smp#: 13

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

15 Dibenzofuran, CAS: 132-64-9

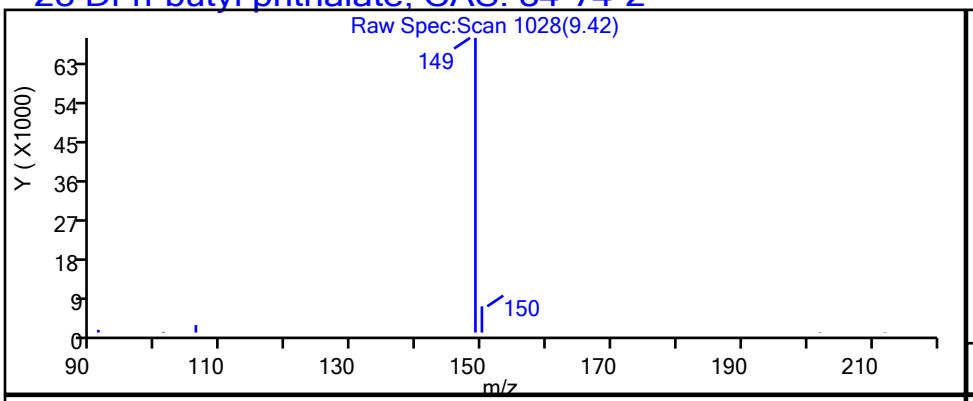


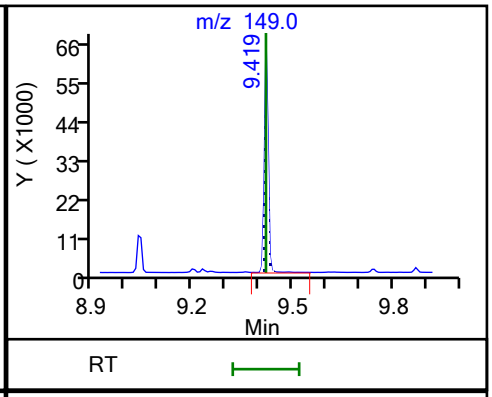
Report Date: 01-Dec-2022 04:31:49 Chrom Revision: 2.3 22-Nov-2022 16:59:54

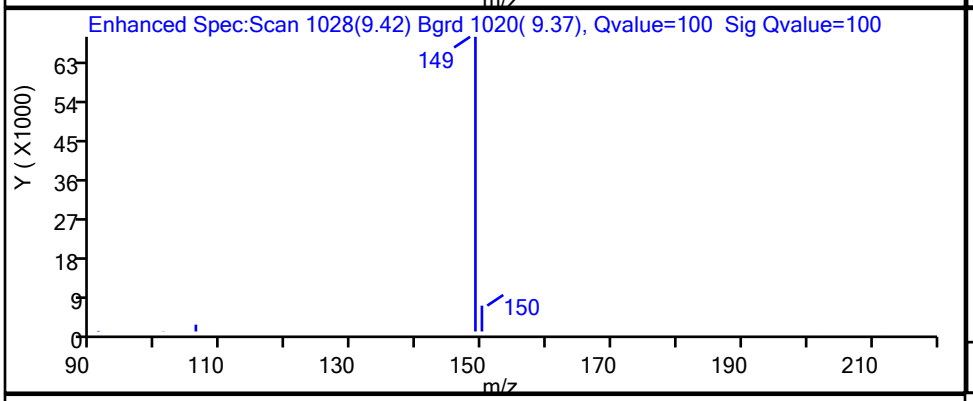
Eurofins Lancaster Laboratories Environment Testing, LLC

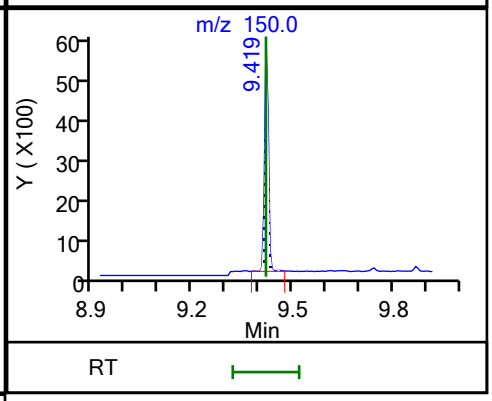
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1412.D				
Injection Date:	30-Nov-2022 09:38:30	Instrument ID:	HP23263		
Lims ID:	410-106360-B-3-C	Lab Sample ID:	410-106360-3		
Client ID:	FBW001_112022				
Operator ID:	jmg00346	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

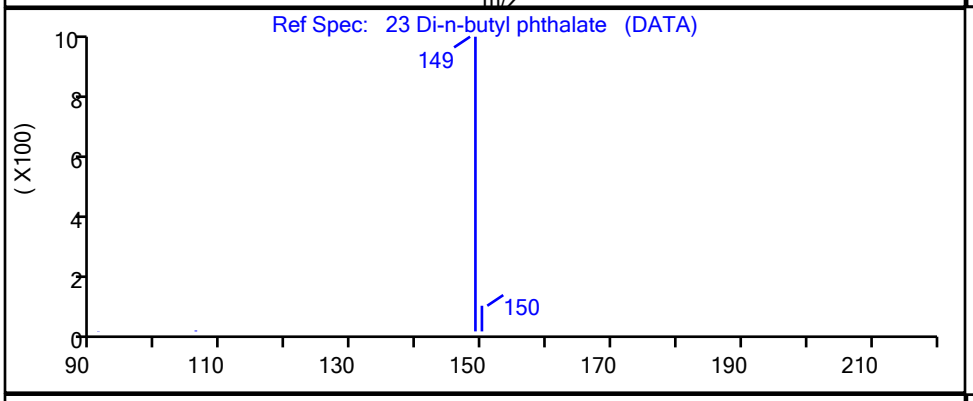
23 Di-n-butyl phthalate, CAS: 84-74-2

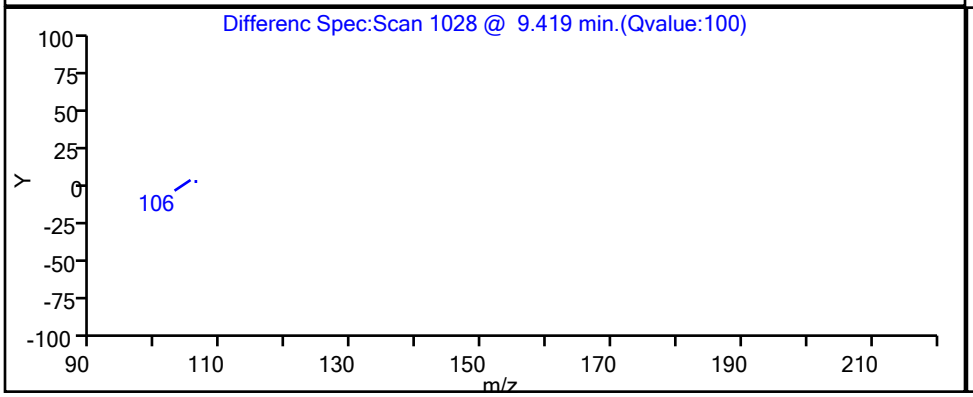


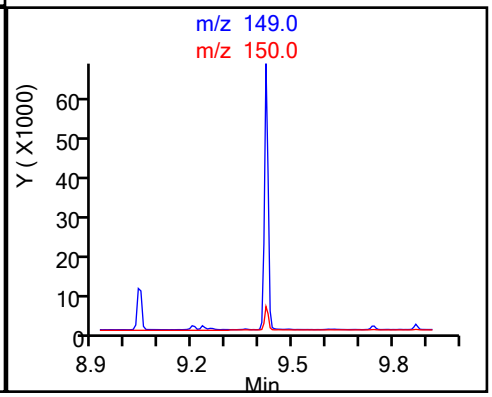










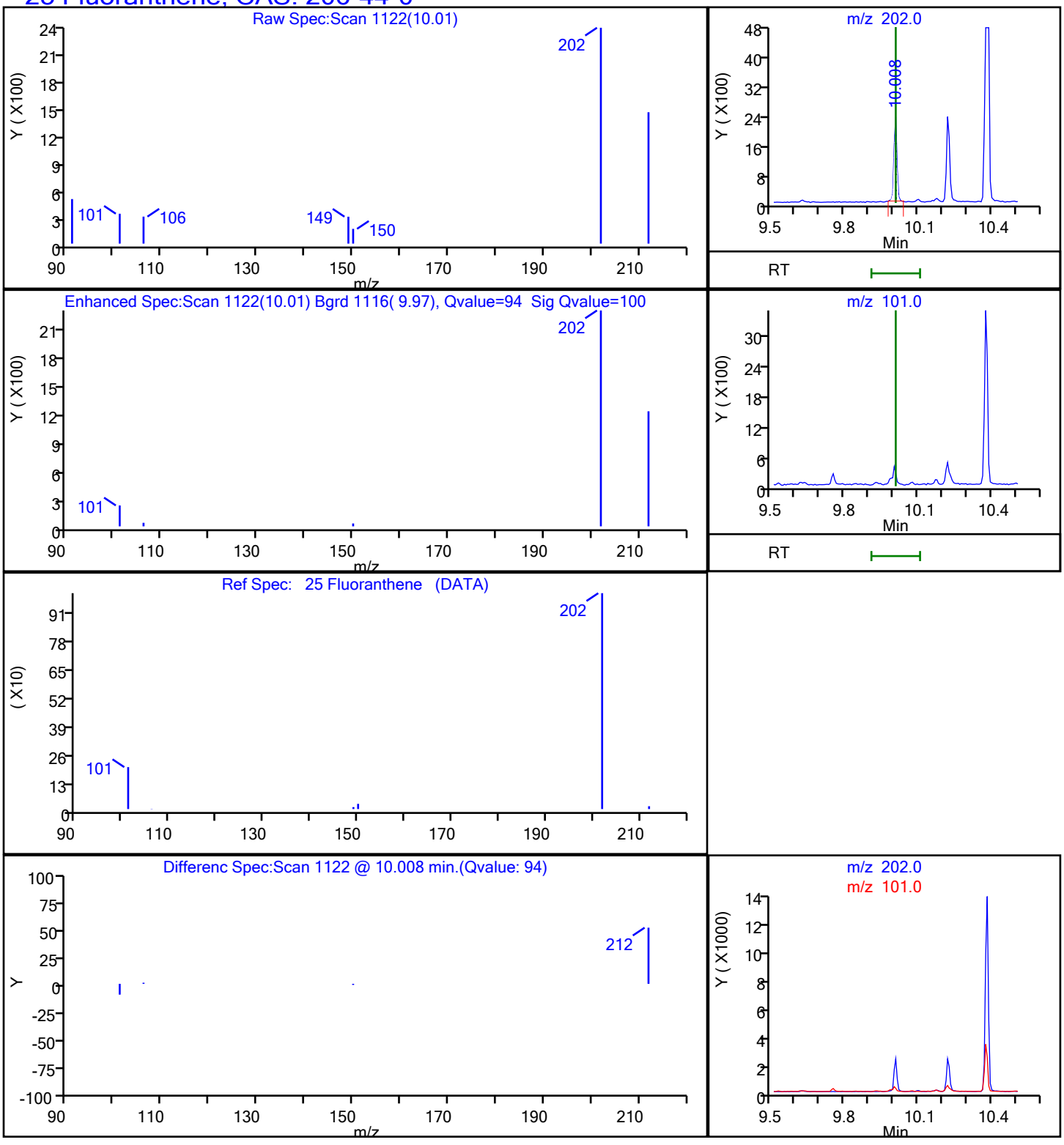


Report Date: 01-Dec-2022 04:31:49 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1412.D				
Injection Date:	30-Nov-2022 09:38:30	Instrument ID:	HP23263		
Lims ID:	410-106360-B-3-C	Lab Sample ID:	410-106360-3		
Client ID:	FBW001_112022				
Operator ID:	jmg00346	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

25 Fluoranthene, CAS: 206-44-0



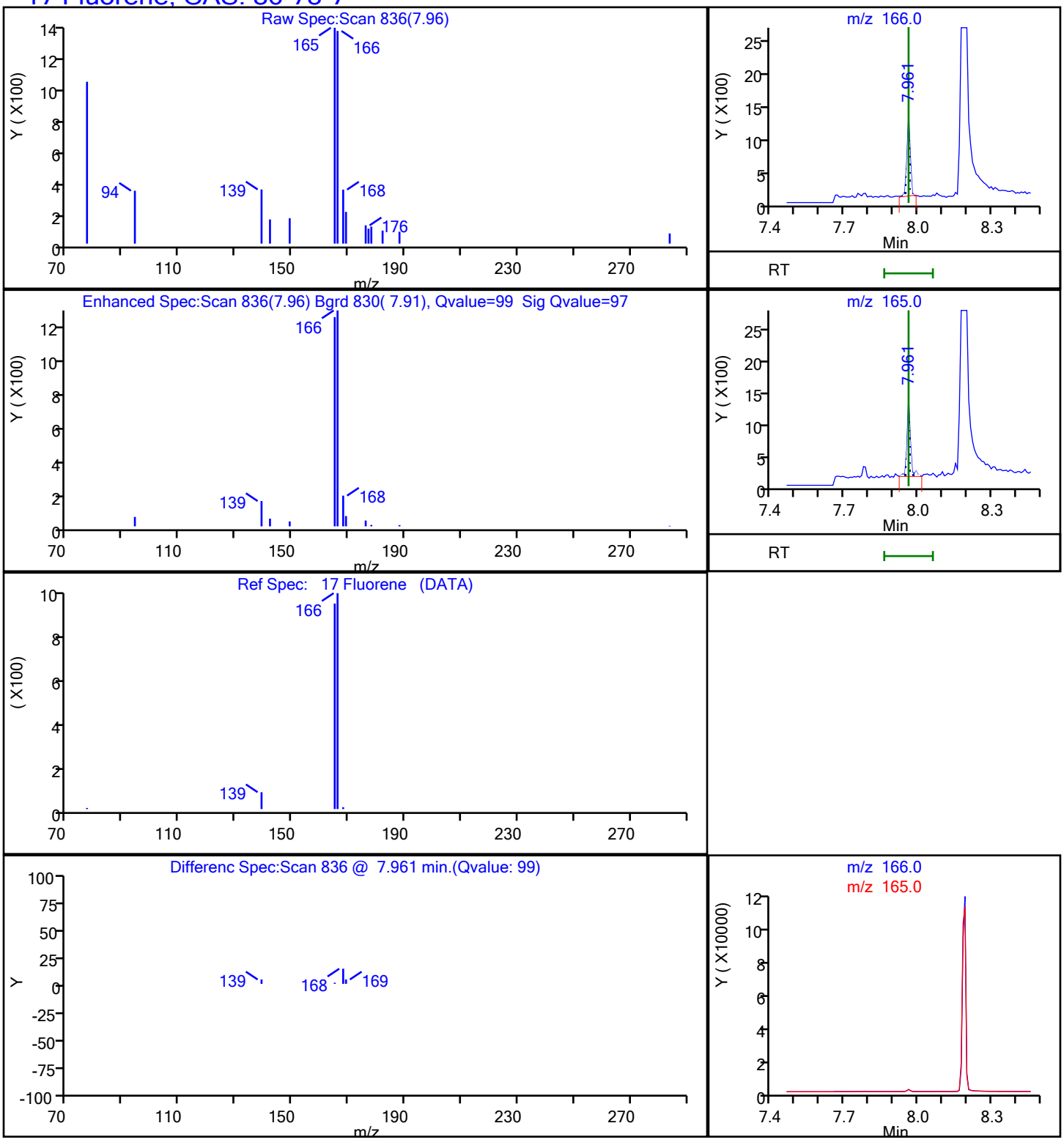
Report Date: 01-Dec-2022 04:31:49 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1412.D

Injection Date:	30-Nov-2022 09:38:30	Instrument ID:	HP23263		
Lims ID:	410-106360-B-3-C	Lab Sample ID:	410-106360-3		
Client ID:	FBW001_112022				
Operator ID:	jmg00346	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

17 Fluorene, CAS: 86-73-7



Report Date: 01-Dec-2022 04:31:49 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1412.D

Injection Date: 30-Nov-2022 09:38:30 Instrument ID: HP23263

Lims ID: 410-106360-B-3-C Lab Sample ID: 410-106360-3

Client ID: FBW001_112022

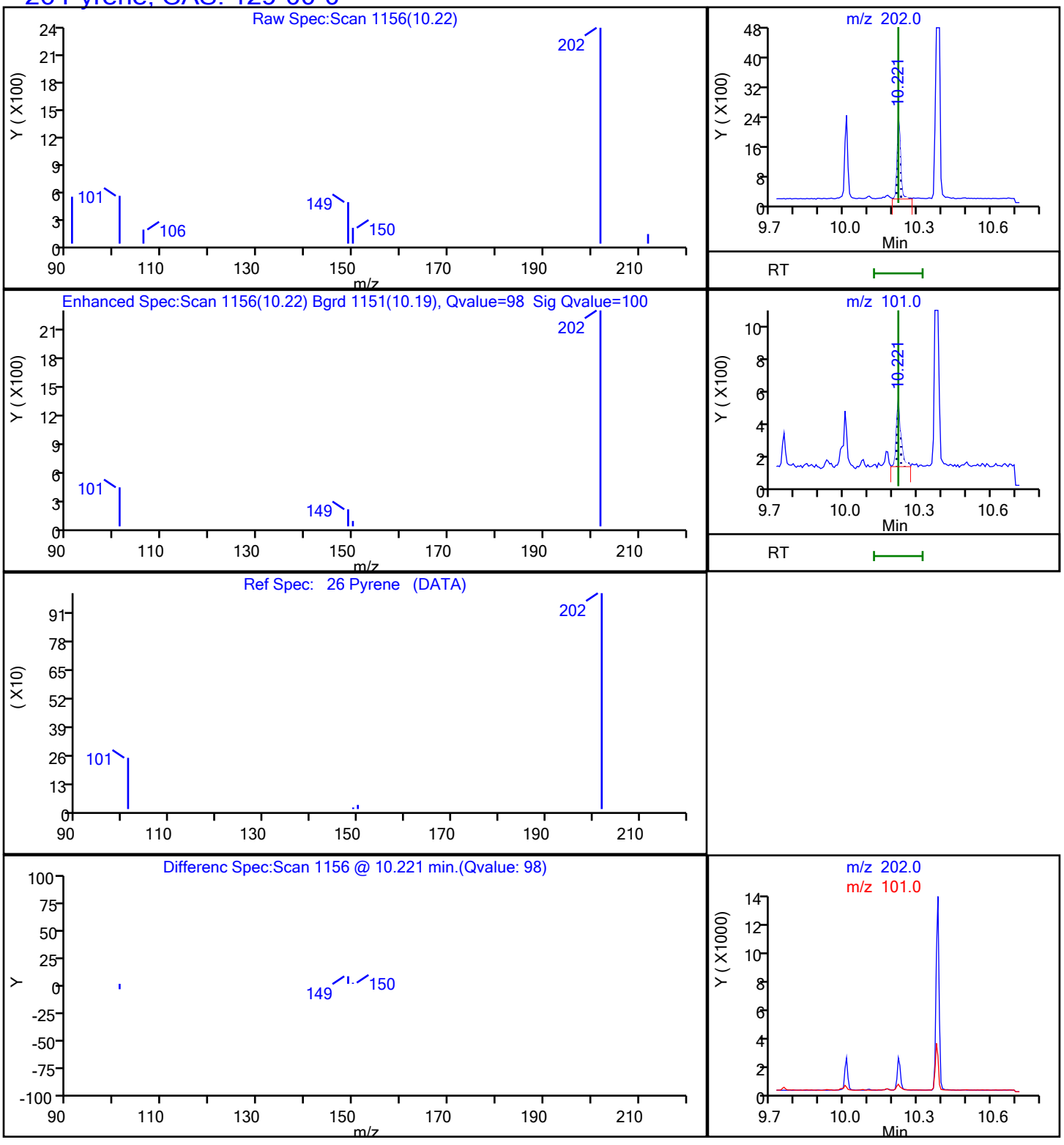
Operator ID: jmg00346 ALS Bottle#: 13 Worklist Smp#: 13

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

26 Pyrene, CAS: 129-00-0



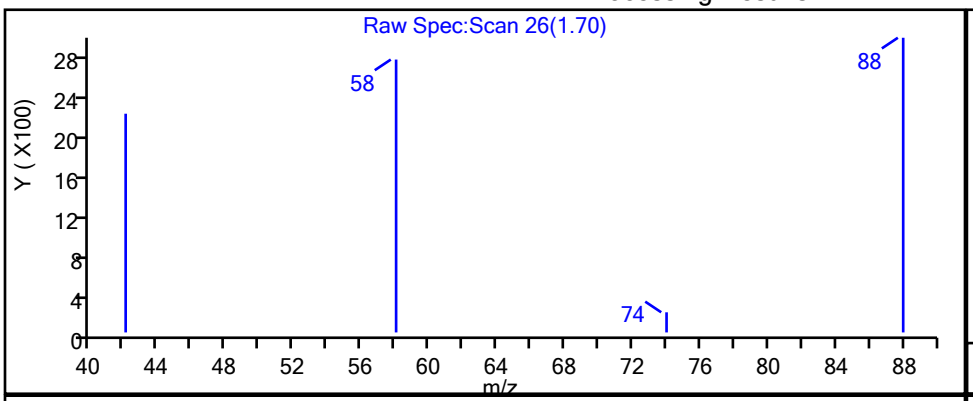
User Disabled Compound Report

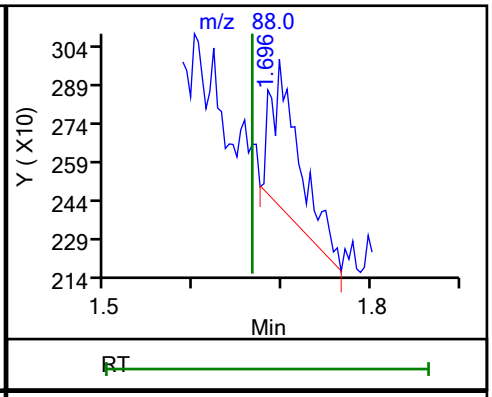
Eurofins Lancaster Laboratories Environment Testing, LLC

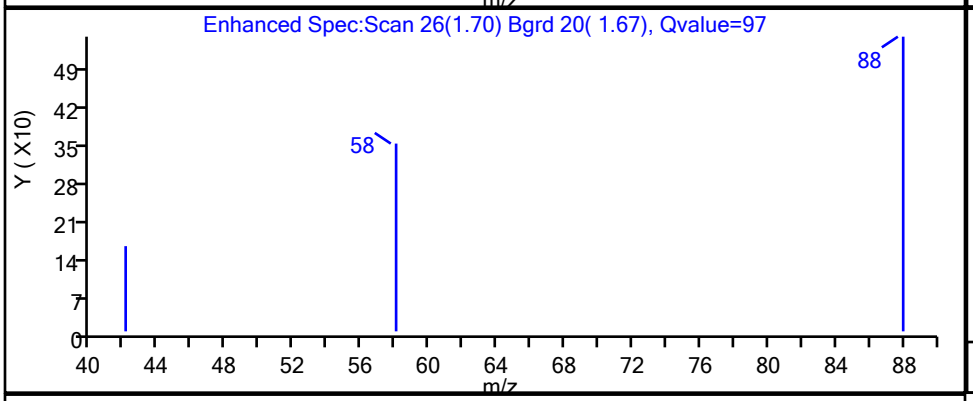
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1412.D				
Injection Date:	30-Nov-2022 09:38:30	Instrument ID:	HP23263		
Lims ID:	410-106360-B-3-C	Lab Sample ID:	410-106360-3		
Client ID:	FBW001_112022				
Operator ID:	jmg00346	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

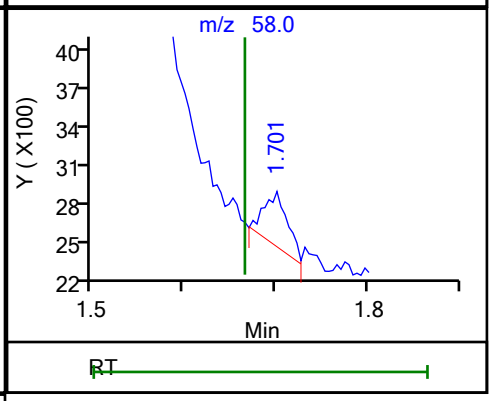
1 1,4-Dioxane, CAS: 123-91-1

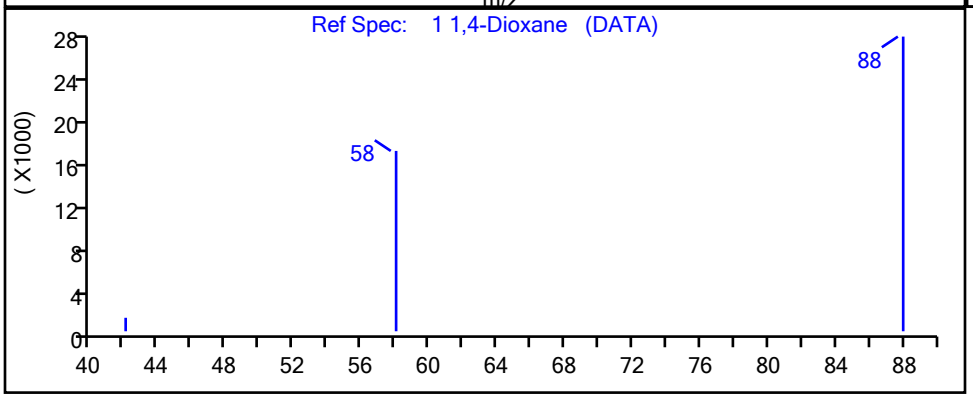
Processing Results











RT	Mass	Response	Amount
1.70	88.00	1318	0.011692
1.70	58.00	723	

Reviewer: UJM0, 01-Dec-2022 04:23:33

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

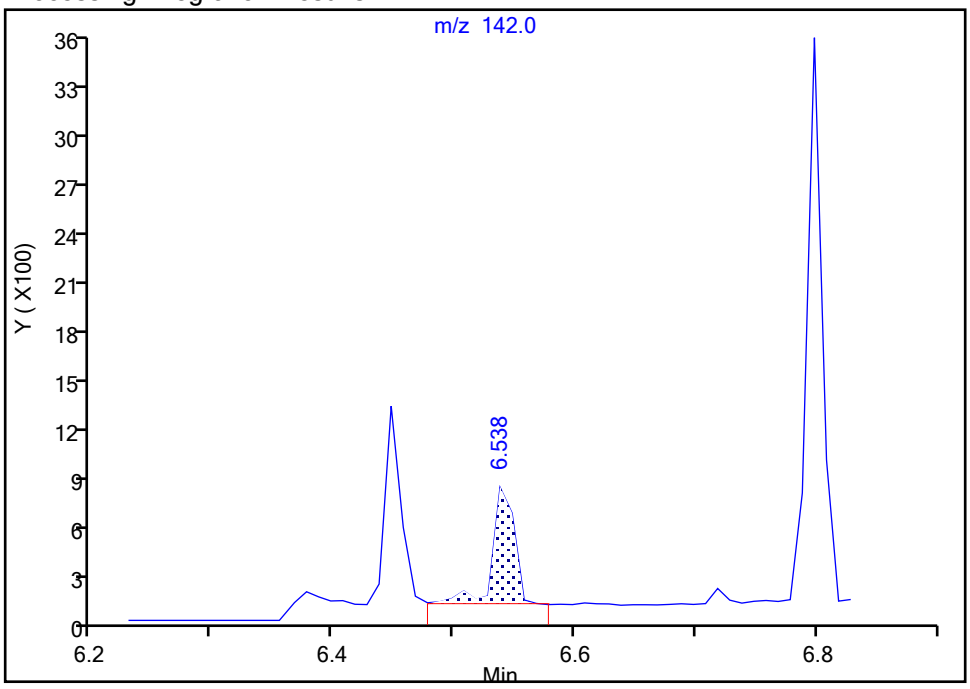
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1412.D				
Injection Date:	30-Nov-2022 09:38:30	Instrument ID:	HP23263		
Lims ID:	410-106360-B-3-C	Lab Sample ID:	410-106360-3		
Client ID:	FBW001_112022				
Operator ID:	jmg00346	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

10 1-Methylnaphthalene, CAS: 90-12-0

Signal: 1

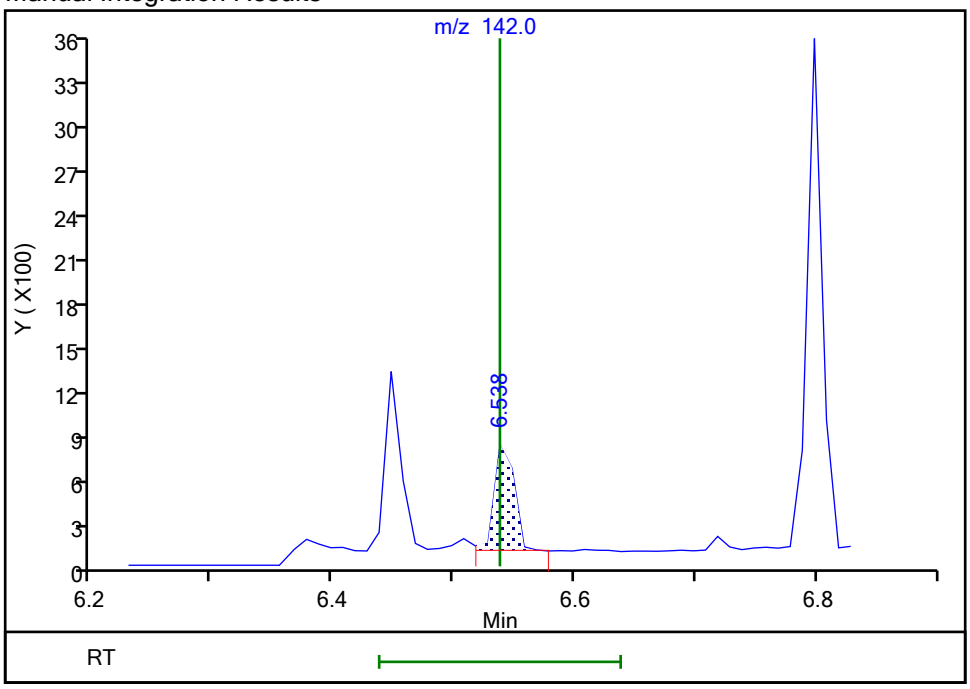
Processing Integration Results

RT: 6.54
Area: 919
Amount: 0.002575
Amount Units: ug/ml



Manual Integration Results

RT: 6.54
Area: 829
Amount: 0.002323
Amount Units: ug/ml



Reviewer: UJM0, 01-Dec-2022 04:23:49
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

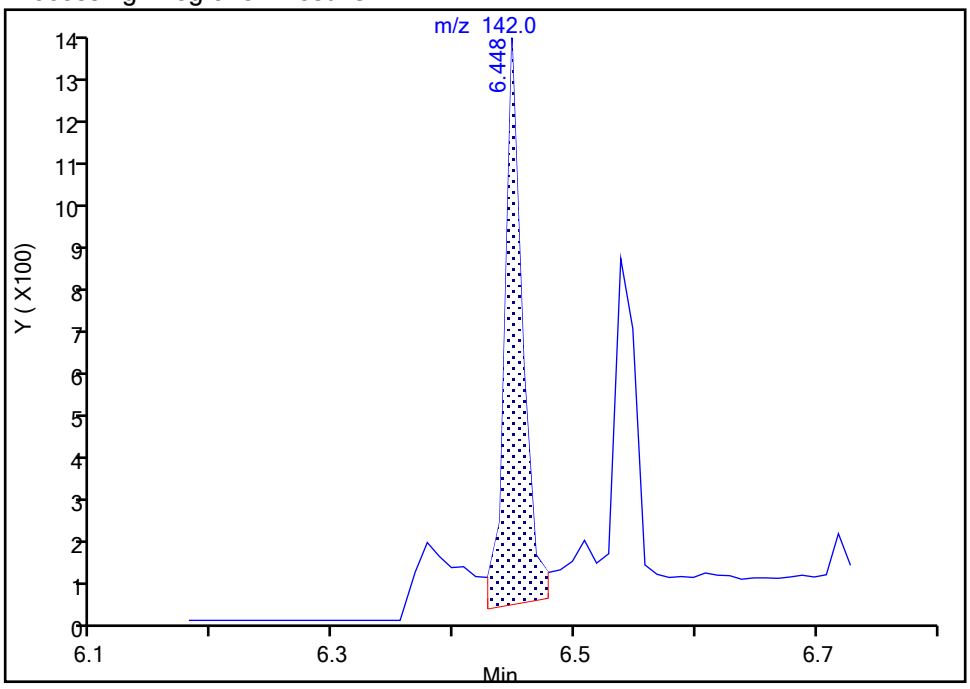
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1412.D				
Injection Date:	30-Nov-2022 09:38:30	Instrument ID:	HP23263		
Lims ID:	410-106360-B-3-C	Lab Sample ID:	410-106360-3		
Client ID:	FBW001_112022				
Operator ID:	jmg00346	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

8 2-Methylnaphthalene, CAS: 91-57-6

Signal: 1

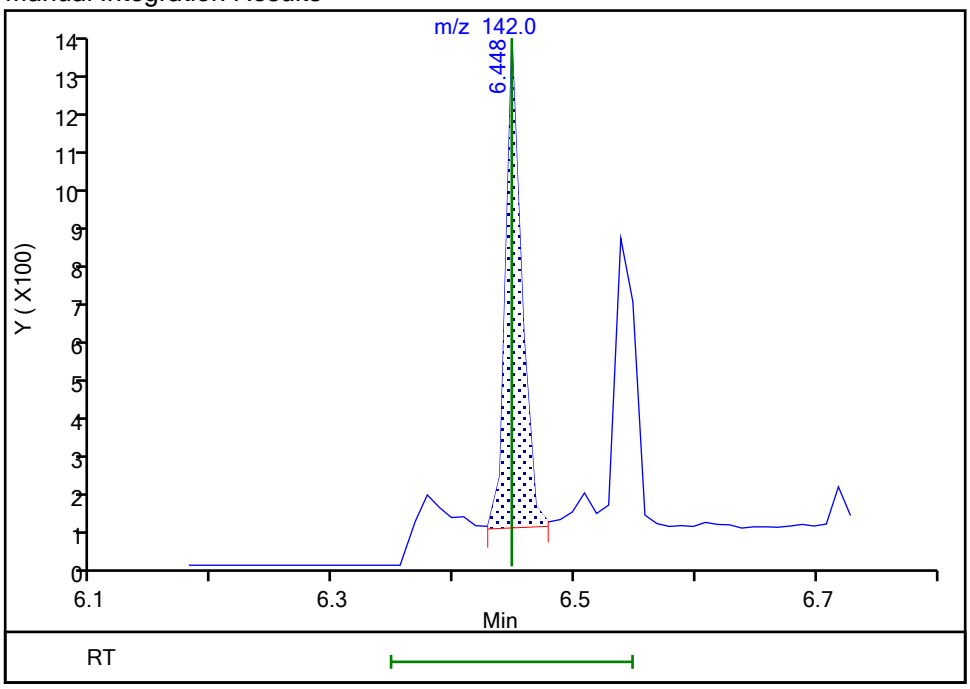
Processing Integration Results

RT: 6.45
Area: 1290
Amount: 0.003233
Amount Units: ug/ml



Manual Integration Results

RT: 6.45
Area: 1128
Amount: 0.002827
Amount Units: ug/ml



Reviewer: UJM0, 01-Dec-2022 04:23:43

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

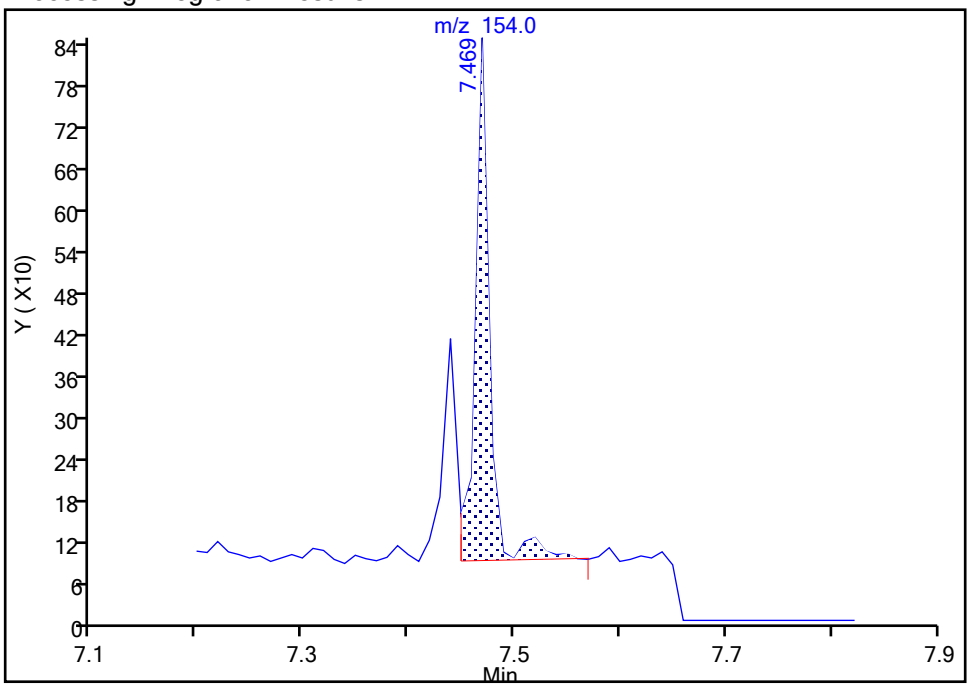
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1412.D				
Injection Date:	30-Nov-2022 09:38:30	Instrument ID:	HP23263		
Lims ID:	410-106360-B-3-C	Lab Sample ID:	410-106360-3		
Client ID:	FBW001_112022				
Operator ID:	jmg00346	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

14 Acenaphthene, CAS: 83-32-9

Signal: 1

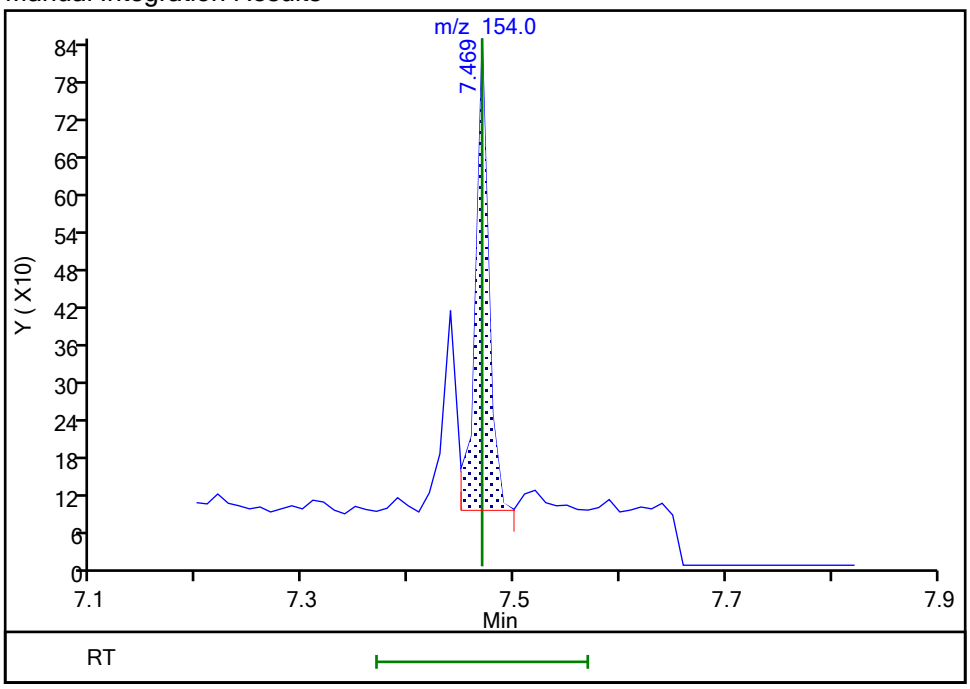
Processing Integration Results

RT: 7.47
Area: 711
Amount: 0.001995
Amount Units: ug/ml



Manual Integration Results

RT: 7.47
Area: 653
Amount: 0.001832
Amount Units: ug/ml



Reviewer: UJM0, 01-Dec-2022 04:23:57

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

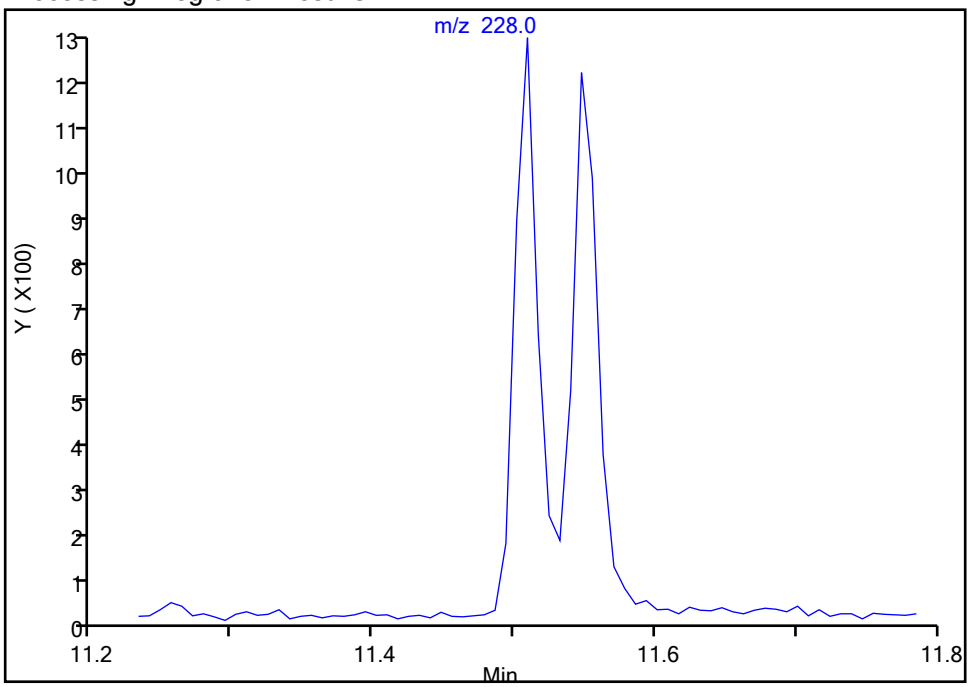
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1412.D				
Injection Date:	30-Nov-2022 09:38:30	Instrument ID:	HP23263		
Lims ID:	410-106360-B-3-C	Lab Sample ID:	410-106360-3		
Client ID:	FBW001_112022				
Operator ID:	jmg00346	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

28 Benzo[a]anthracene, CAS: 56-55-3

Signal: 1

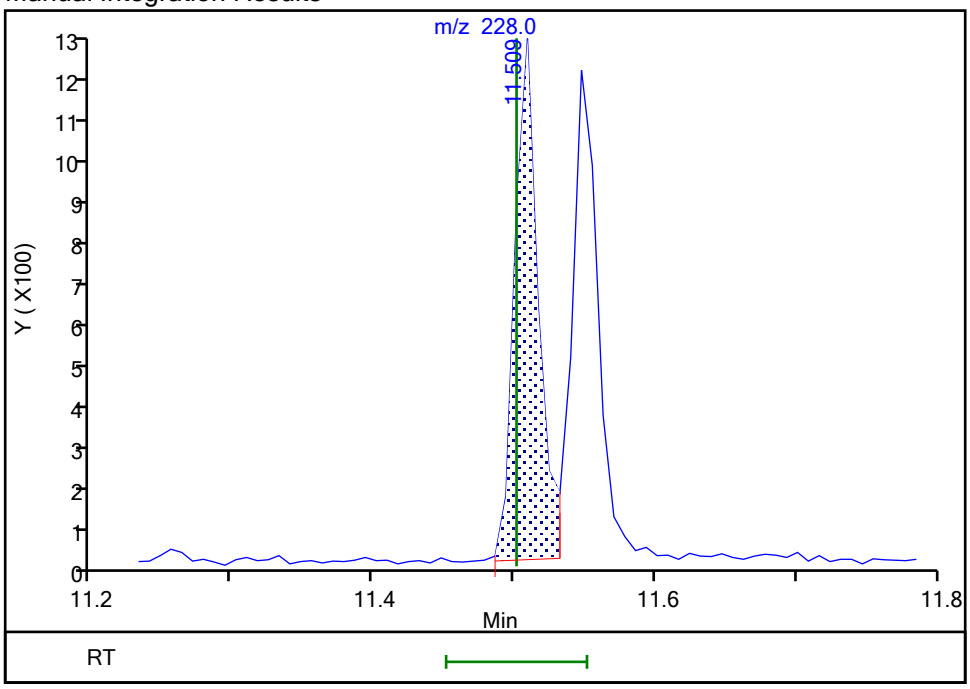
Not Detected
Expected RT: 11.50

Processing Integration Results



Manual Integration Results

RT: 11.51
Area: 1325
Amount: 0.004493
Amount Units: ug/ml



Reviewer: UJM0, 01-Dec-2022 04:24:31
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

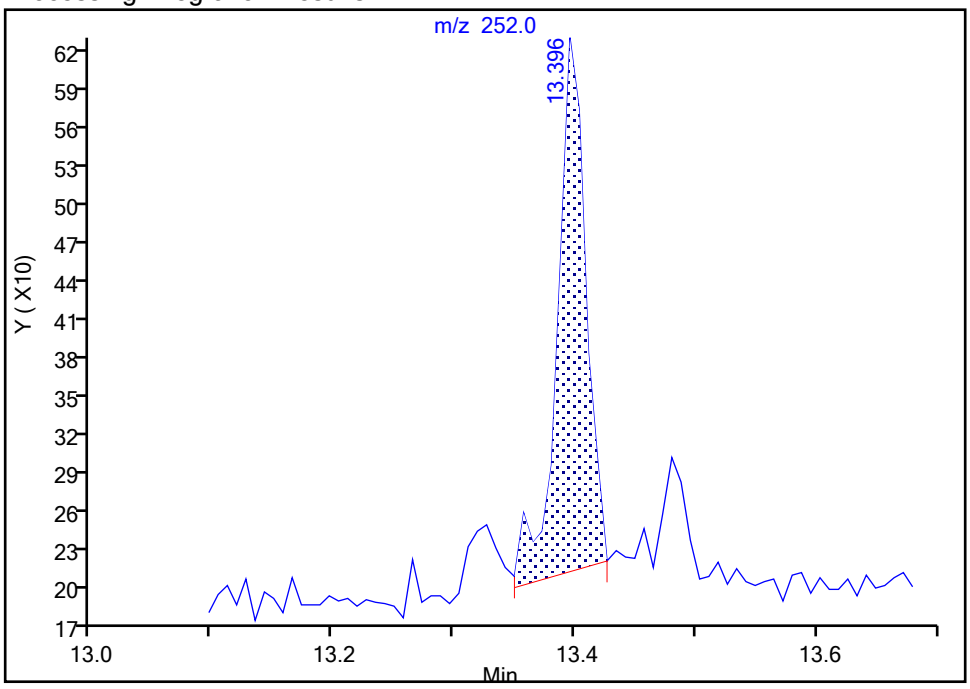
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1412.D				
Injection Date:	30-Nov-2022 09:38:30	Instrument ID:	HP23263		
Lims ID:	410-106360-B-3-C	Lab Sample ID:	410-106360-3		
Client ID:	FBW001_112022				
Operator ID:	jmg00346	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

37 Benzo[a]pyrene, CAS: 50-32-8

Signal: 1

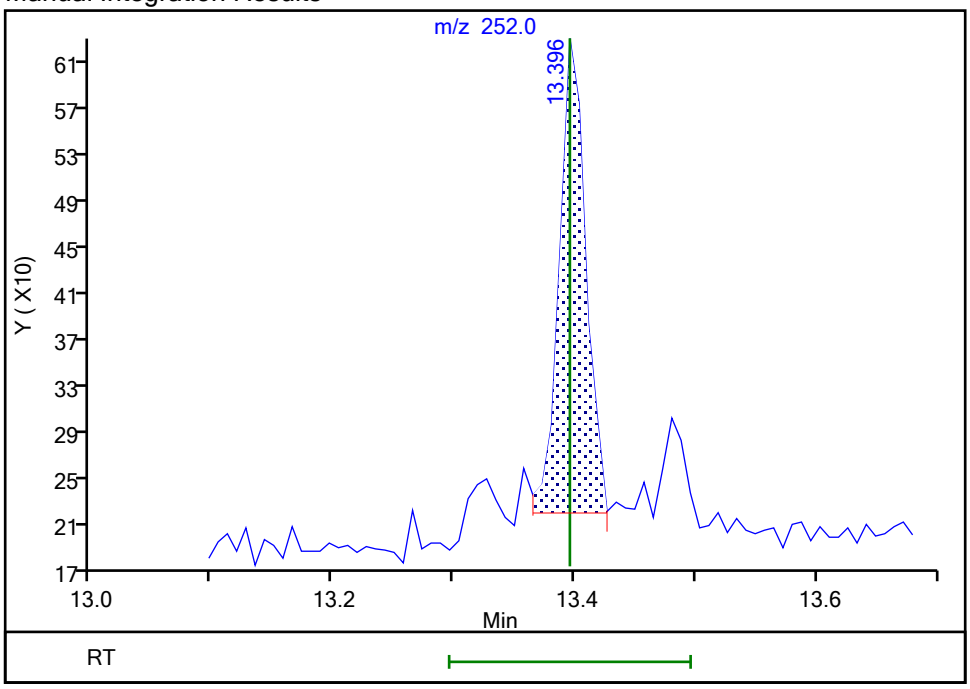
Processing Integration Results

RT: 13.40
Area: 676
Amount: 0.002874
Amount Units: ug/ml



Manual Integration Results

RT: 13.40
Area: 618
Amount: 0.002627
Amount Units: ug/ml



Reviewer: UJM0, 01-Dec-2022 04:25:03

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

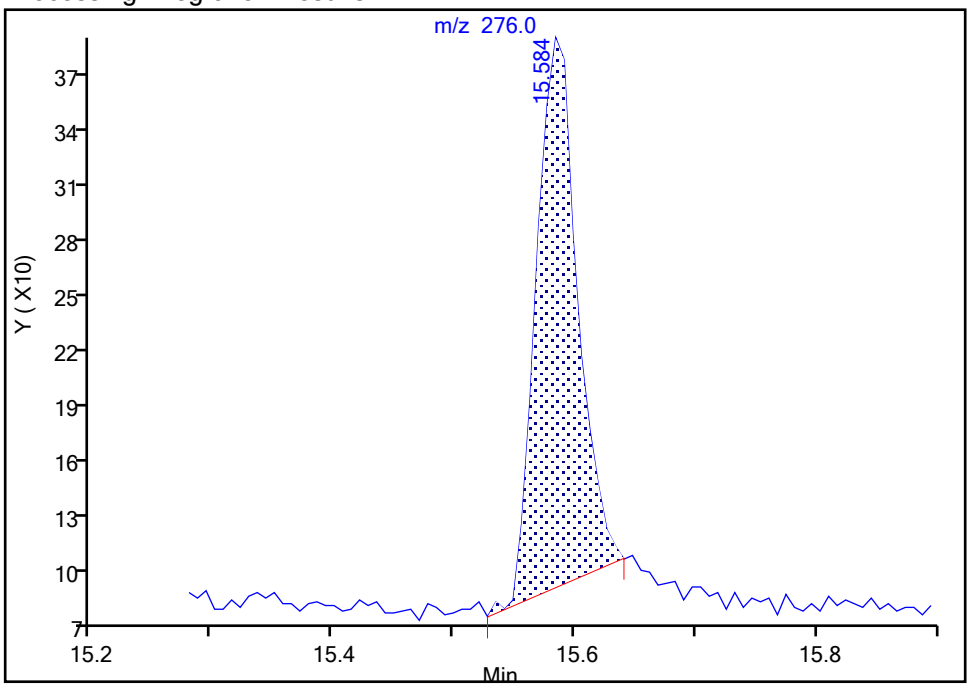
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1412.D				
Injection Date:	30-Nov-2022 09:38:30	Instrument ID:	HP23263		
Lims ID:	410-106360-B-3-C	Lab Sample ID:	410-106360-3		
Client ID:	FBW001_112022				
Operator ID:	jmg00346	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

42 Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

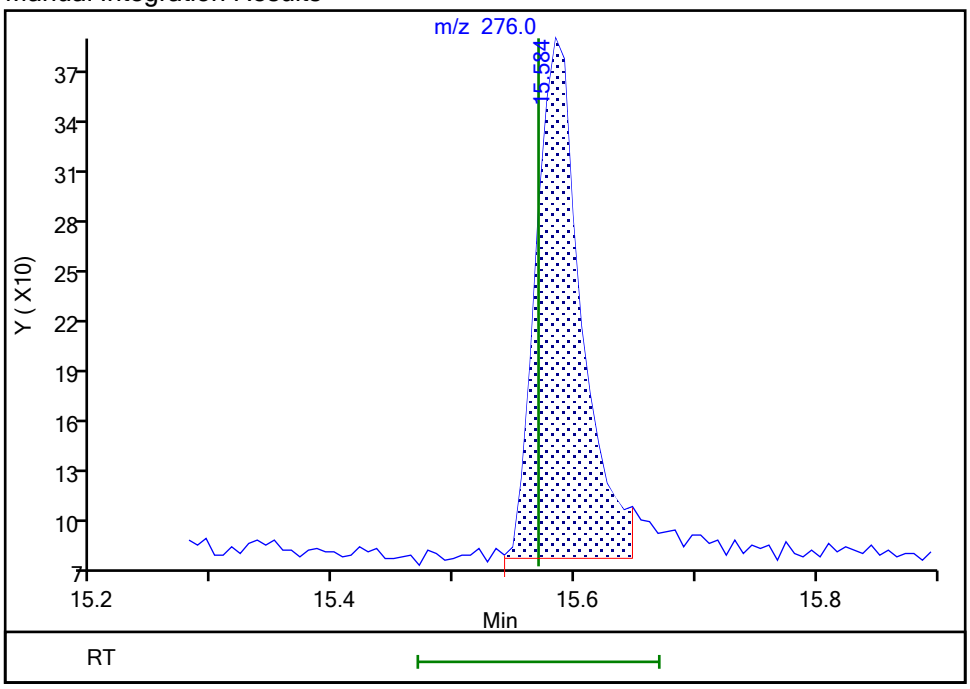
Processing Integration Results

RT: 15.58
Area: 703
Amount: 0.003059
Amount Units: ug/ml



Manual Integration Results

RT: 15.58
Area: 805
Amount: 0.003503
Amount Units: ug/ml



Reviewer: UJM0, 01-Dec-2022 04:25:20

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

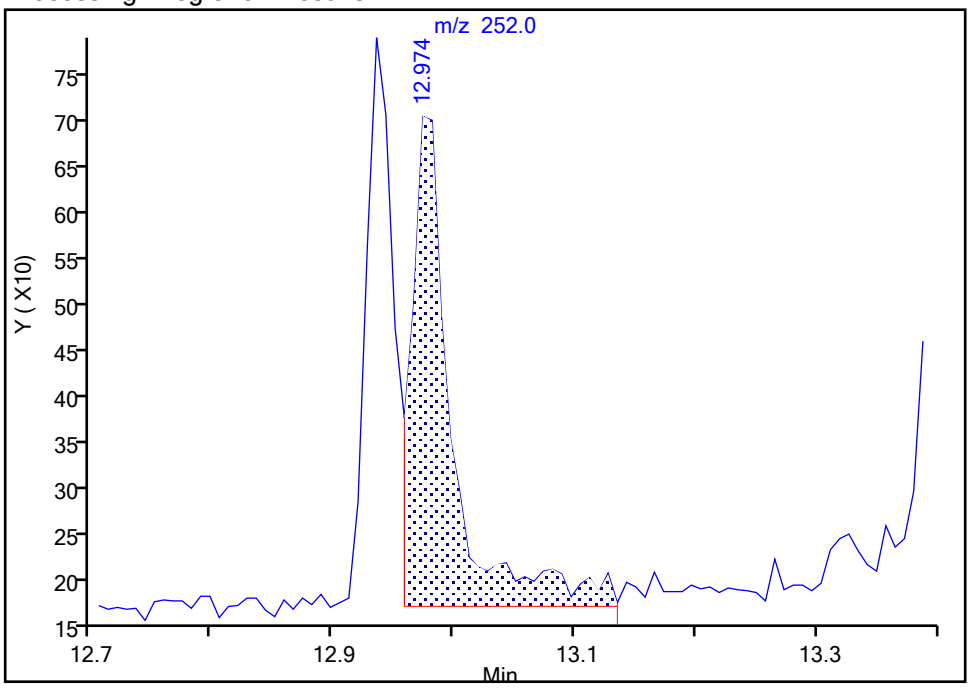
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1412.D				
Injection Date:	30-Nov-2022 09:38:30	Instrument ID:	HP23263		
Lims ID:	410-106360-B-3-C	Lab Sample ID:	410-106360-3		
Client ID:	FBW001_112022				
Operator ID:	jmg00346	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

34 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

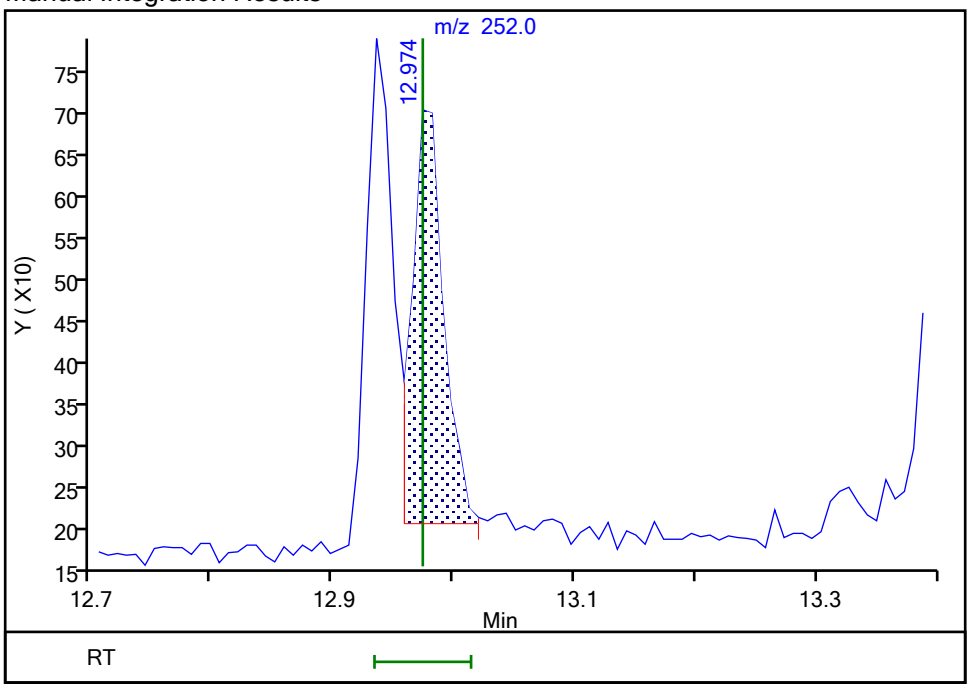
Processing Integration Results

RT: 12.97
Area: 1213
Amount: 0.004203
Amount Units: ug/ml



Manual Integration Results

RT: 12.97
Area: 874
Amount: 0.003028
Amount Units: ug/ml



Reviewer: UJM0, 01-Dec-2022 04:24:57

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

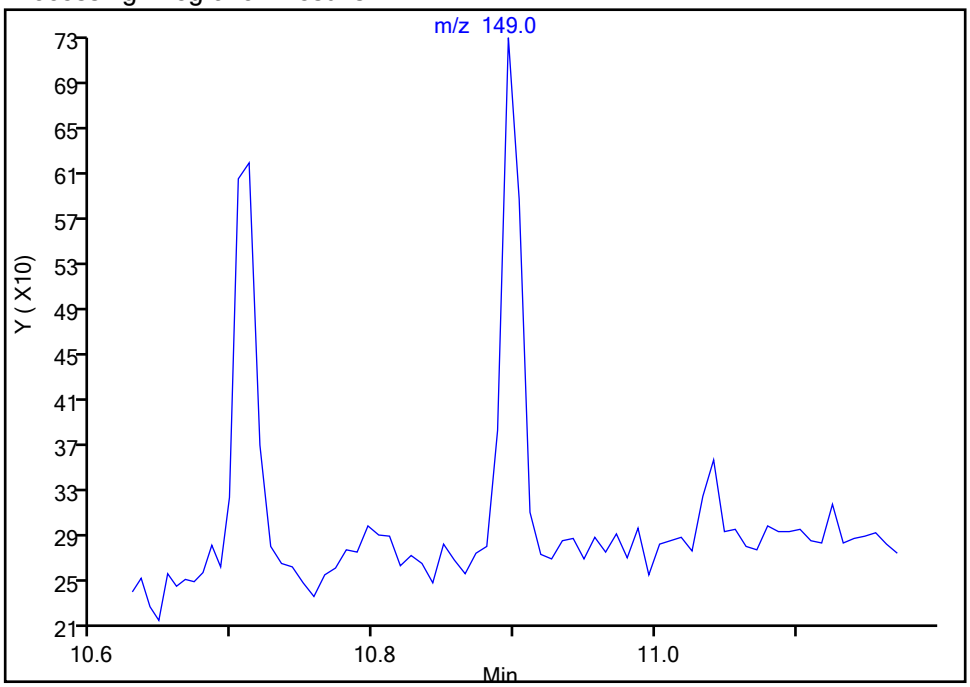
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1412.D				
Injection Date:	30-Nov-2022 09:38:30	Instrument ID:	HP23263		
Lims ID:	410-106360-B-3-C	Lab Sample ID:	410-106360-3		
Client ID:	FBW001_112022				
Operator ID:	jmg00346	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

27 Butyl benzyl phthalate, CAS: 85-68-7

Signal: 1

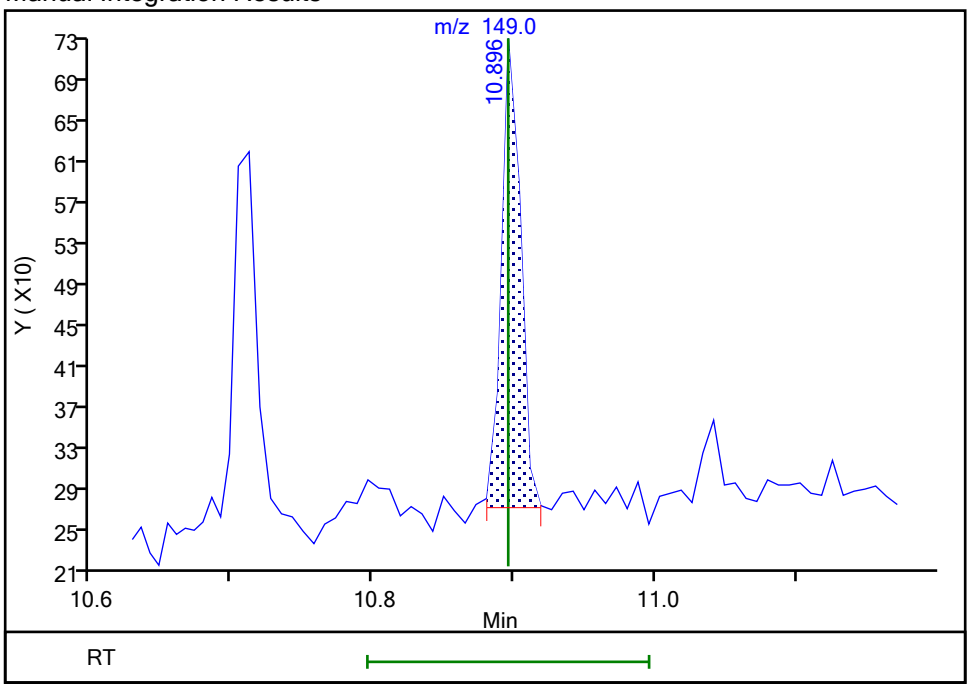
Not Detected
Expected RT: 10.90

Processing Integration Results



Manual Integration Results

RT: 10.90
Area: 423
Amount: 0.004100
Amount Units: ug/ml



Reviewer: UJM0, 01-Dec-2022 04:24:36
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

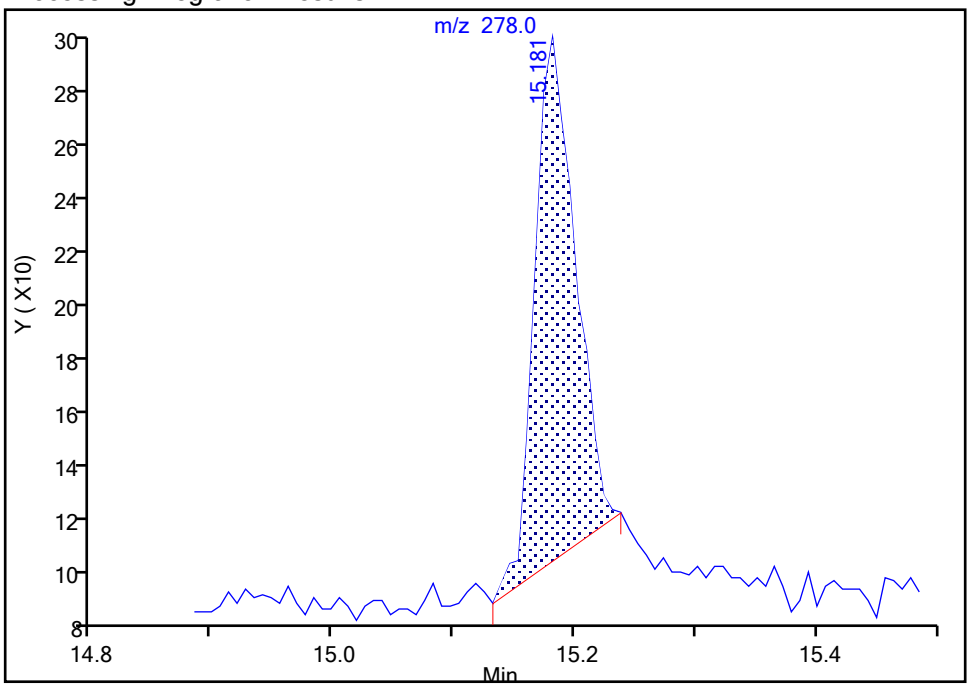
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1412.D				
Injection Date:	30-Nov-2022 09:38:30	Instrument ID:	HP23263		
Lims ID:	410-106360-B-3-C	Lab Sample ID:	410-106360-3		
Client ID:	FBW001_112022				
Operator ID:	jmg00346	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

41 Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

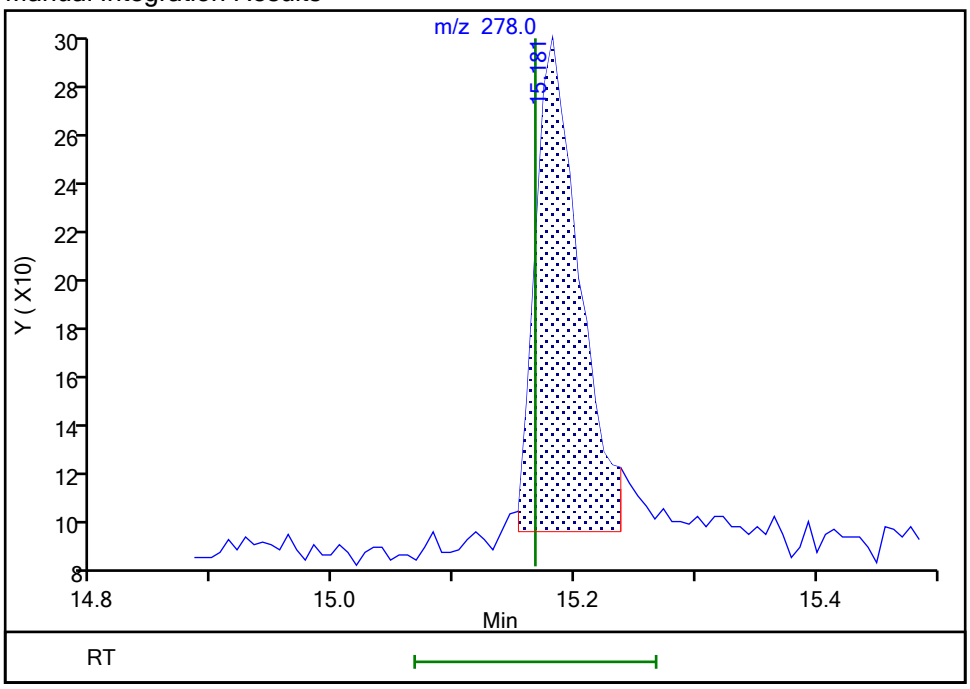
Processing Integration Results

RT: 15.18
Area: 428
Amount: 0.002156
Amount Units: ug/ml



Manual Integration Results

RT: 15.18
Area: 482
Amount: 0.002428
Amount Units: ug/ml



Reviewer: UJM0, 01-Dec-2022 04:25:15

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

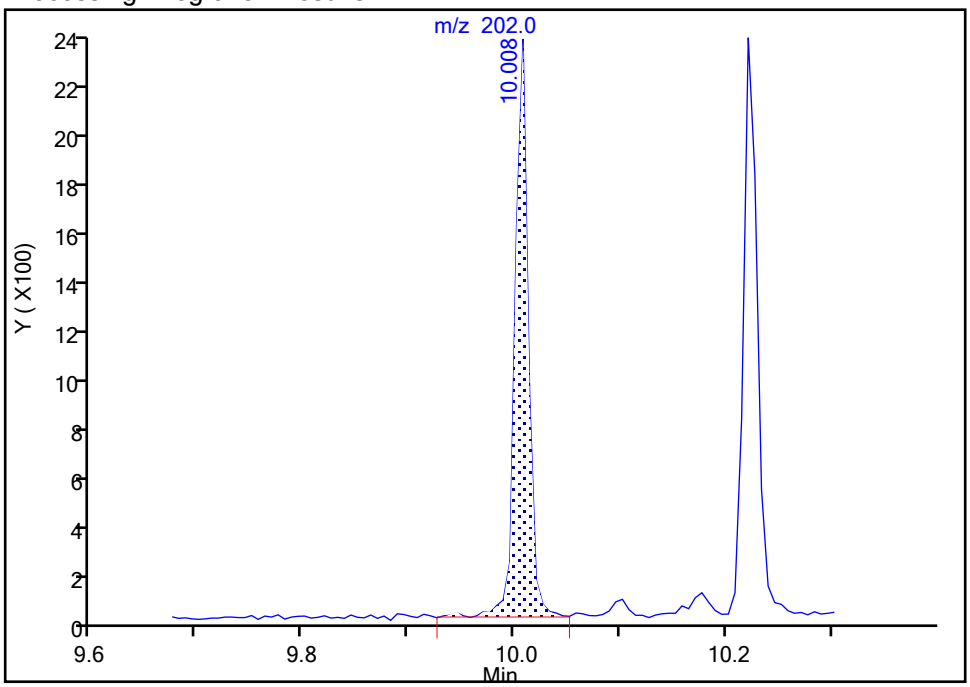
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1412.D				
Injection Date:	30-Nov-2022 09:38:30	Instrument ID:	HP23263		
Lims ID:	410-106360-B-3-C	Lab Sample ID:	410-106360-3		
Client ID:	FBW001_112022				
Operator ID:	jmg00346	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

25 Fluoranthene, CAS: 206-44-0

Signal: 1

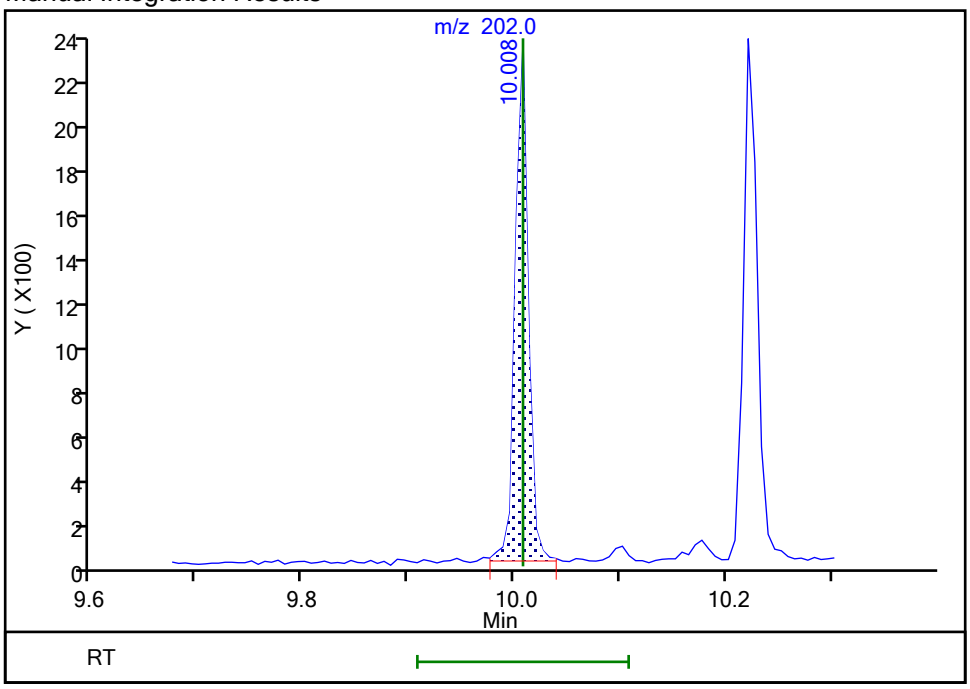
Processing Integration Results

RT: 10.01
Area: 2003
Amount: 0.004432
Amount Units: ug/ml



Manual Integration Results

RT: 10.01
Area: 1937
Amount: 0.004286
Amount Units: ug/ml



Reviewer: UJM0, 01-Dec-2022 04:24:21

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

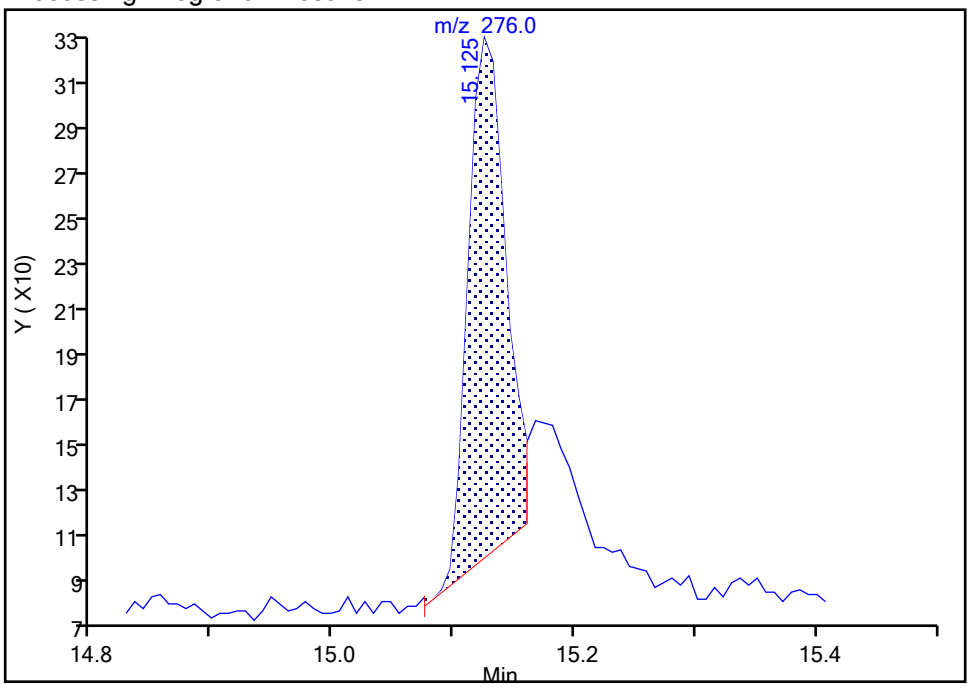
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1412.D				
Injection Date:	30-Nov-2022 09:38:30	Instrument ID:	HP23263		
Lims ID:	410-106360-B-3-C	Lab Sample ID:	410-106360-3		
Client ID:	FBW001_112022				
Operator ID:	jmg00346	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

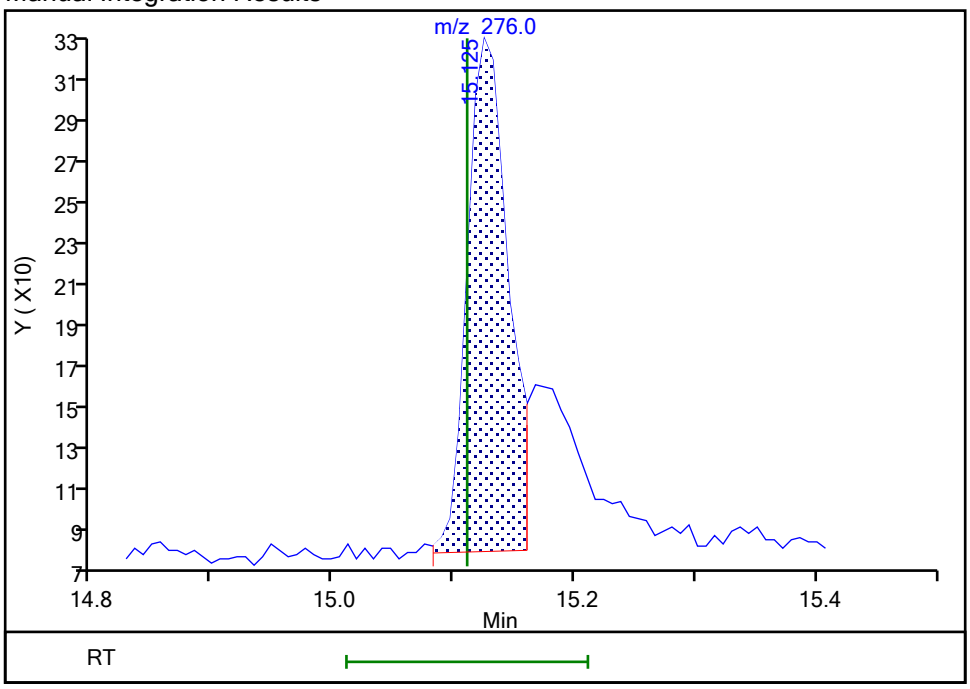
Processing Integration Results

RT: 15.12
Area: 475
Amount: 0.002544
Amount Units: ug/ml



Manual Integration Results

RT: 15.12
Area: 560
Amount: 0.002999
Amount Units: ug/ml



Reviewer: UJM0, 01-Dec-2022 04:25:10

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

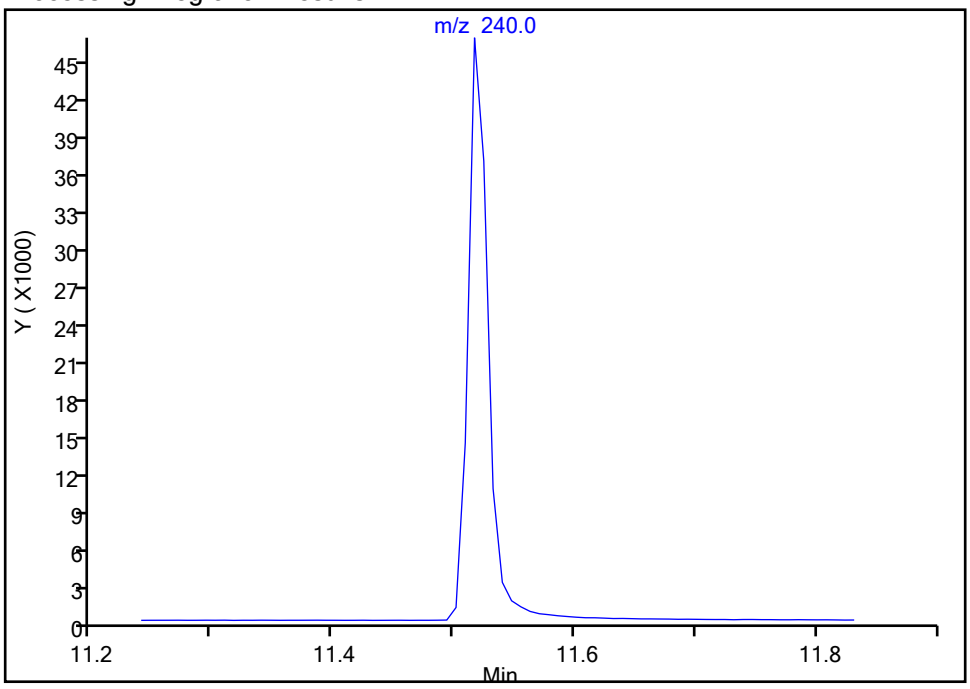
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1412.D				
Injection Date:	30-Nov-2022 09:38:30	Instrument ID:	HP23263		
Lims ID:	410-106360-B-3-C	Lab Sample ID:	410-106360-3		
Client ID:	FBW001_112022				
Operator ID:	jmg00346	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

* 29 Chrysene-d12, CAS: 1719-03-5

Signal: 1

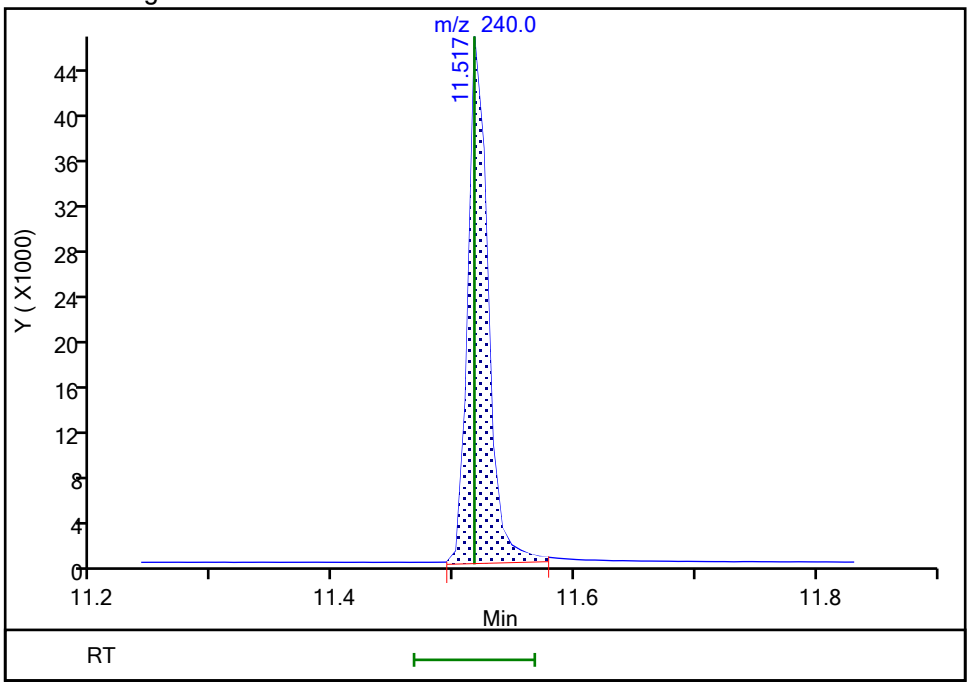
Not Detected
Expected RT: 11.52

Processing Integration Results



Manual Integration Results

RT: 11.52
Area: 54155
Amount: 0.250000
Amount Units: ug/ml



Reviewer: UJM0, 01-Dec-2022 04:23:18
Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-106360-1

SDG No.:

Client Sample ID: FBW001_112022 RA
Lab Sample ID: 410-106360-3 RA

Matrix: Water
Lab File ID: ML0012.D

Analysis Method: 8270D SIM
Date Collected: 11/17/2022 10:20

Extract. Method: 3510C
Date Extracted: 11/23/2022 17:30

Sample wt/vol: 242.8(mL)
Date Analyzed: 12/01/2022 06:22

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 322405
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
117-81-7	Bis(2-ethylhexyl) phthalate	0.28	J B cn	1.0	0.051

CAS NO.	SURROGATE	%REC	Q	LIMITS
38072-94-5	1-Methylnaphthalene-d10 (Surr)	65		36-111
63466-71-7	Benzo(a)pyrene-d12 (Surr)	55		10-110
93951-69-0	Fluoranthene-d10 (Surr)	70		47-128

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20221201-72264.b\ML0012.D
Lims ID: 410-106360-B-3-C
Client ID: FBW001_112022
Sample Type: Client
Inject. Date: 01-Dec-2022 06:22:12 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-106360-B-3-C
Misc. Info.: 410-0072264-003
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20221201-72264.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 01-Dec-2022 08:49:37 Calib Date: 28-Jul-2022 21:32:00
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20220728-62933.b\MG1356.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: UJM0 Date: 01-Dec-2022 07:55:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	4.368	4.368	0.000	82	68955	0.2500	
* 5 Naphthalene-d8	136	5.568	5.568	0.000	91	222928	0.2500	
$ 9 1-Methylnaphthalene-d10	152	6.303	6.303	0.000	97	83302	0.1635	
10 1-Methylnaphthalene	142	6.342	6.342	0.000	95	1300	0.002029	7M
* 13 Acenaphthene-d10	164	7.239	7.238	0.001	86	130850	0.2500	
15 Dibenzofuran	168	7.436	7.435	0.001	83	2347	0.002356	7M
17 Fluorene	166	7.758	7.758	0.000	88	2355	0.003053	M
19 Hexachlorobenzene	284	8.273	8.273	0.000	88	878	0.003606	
* 20 Phenanthrene-d10	188	8.648	8.648	0.000	95	257248	0.2500	
22 Anthracene	178	8.726	8.718	0.008	100	3243	0.002818	M
23 Di-n-butyl phthalate	149	9.218	9.218	0.000	98	117455	0.1243	
$ 24 Fluoranthene-d10 (Surr)	212	9.786	9.780	0.006	97	190120	0.1754	
25 Fluoranthene	202	9.799	9.799	0.000	98	6095	0.004560	M
26 Pyrene	202	10.018	10.012	0.006	96	8111	0.005358	
27 Butyl benzyl phthalate	149	10.683	10.676	0.007	98	2178	0.0434	
28 Benzo[a]anthracene	228	11.261	11.253	0.008	100	5328	0.004393	M
* 29 Chrysene-d12	240	11.268	11.268	0.000	59	231264	0.2500	
30 Chrysene	228	11.299	11.299	0.000	100	5779	0.004264	M
31 Bis(2-ethylhexyl) phthalate	149	11.330	11.329	0.001	100	14800	0.0680	
33 Benzo[b]fluoranthene	252	12.633	12.618	0.015	100	4367	0.004072	
34 Benzo[k]fluoranthene	252	12.672	12.656	0.016	100	4117	0.003597	M
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.040	13.032	0.008	99	101152	0.1386	
37 Benzo[a]pyrene	252	13.071	13.063	0.008	100	3142	0.003212	
* 38 Perylene-d12	264	13.147	13.147	0.000	99	197422	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	14.731	14.689	0.042	99	2704	0.003253	M
42 Benzo[g,h,i]perylene	276	15.155	15.106	0.049	96	2702	0.002536	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00033	Amount Added:	10.00	Units: uL	Run Reagent

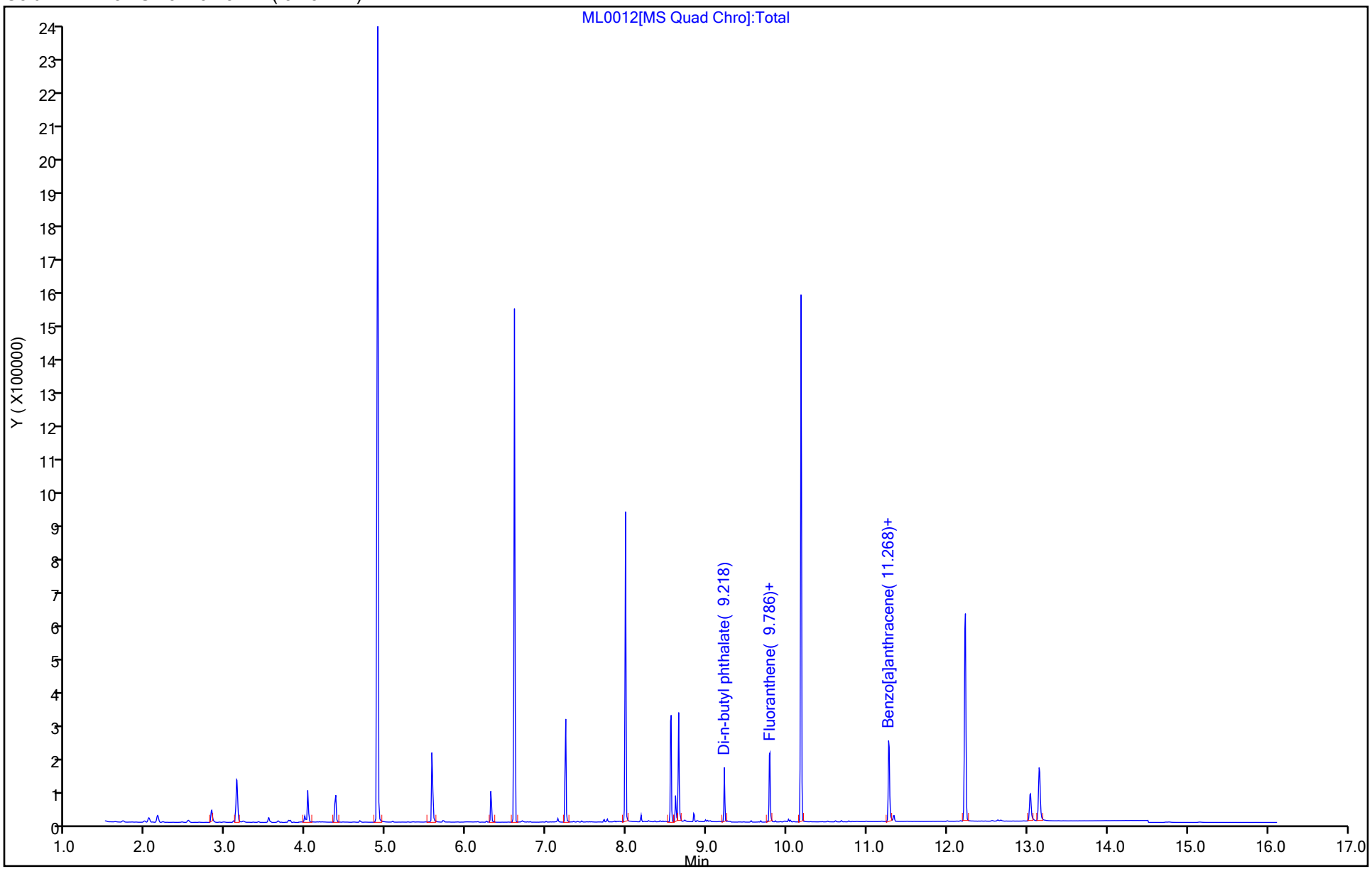
Report Date: 01-Dec-2022 08:49:56 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20221201-72264.b\ML0012.D

Injection Date:	01-Dec-2022 06:22:12	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	410-106360-B-3-C	Lab Sample ID:	410-106360-3	Worklist Smp#:	3
Client ID:	FBW001_112022				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20221201-72264.b\ML0012.D
Lims ID: 410-106360-B-3-C
Client ID: FBW001_112022
Sample Type: Client
Inject. Date: 01-Dec-2022 06:22:12 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-106360-B-3-C
Misc. Info.: 410-0072264-003
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20221201-72264.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 01-Dec-2022 08:49:37 Calib Date: 28-Jul-2022 21:32:00
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20220728-62933.b\MG1356.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: UJM0 Date: 01-Dec-2022 07:55:19

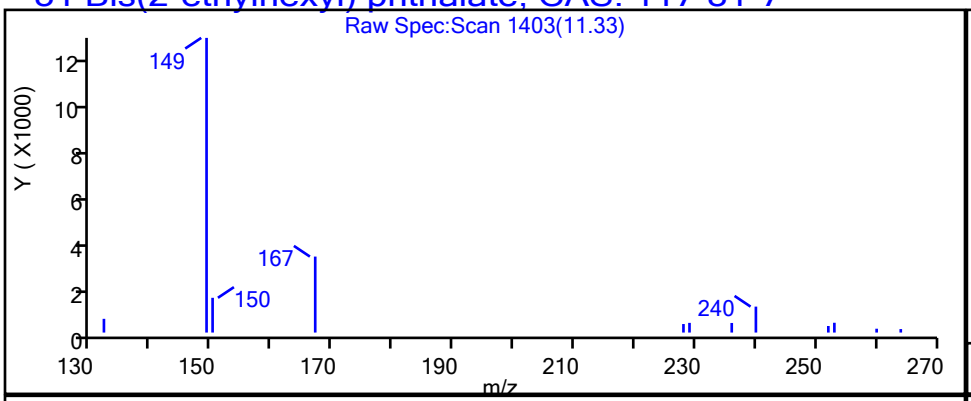
Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1-Methylnaphthalene-d10	0.2500	0.1635	65.41
$ 24 Fluoranthene-d10 (Surr)	0.2500	0.1754	70.17
$ 36 Benzo(a)pyrene-d12 (Surr)	0.2500	0.1386	55.44

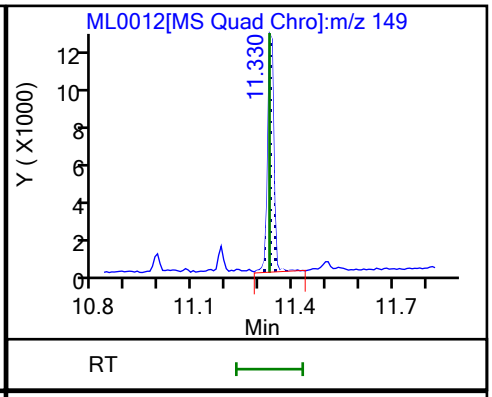
Report Date: 01-Dec-2022 08:49:56 Chrom Revision: 2.3 22-Nov-2022 16:59:54

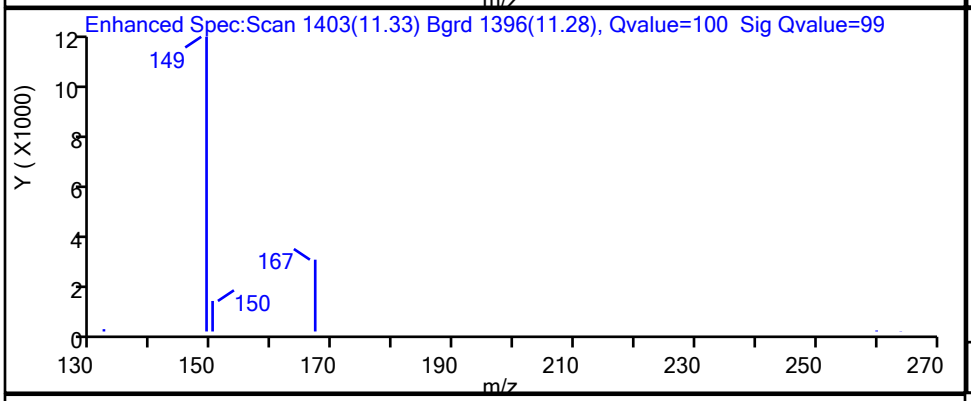
Eurofins Lancaster Laboratories Environment Testing, LLC

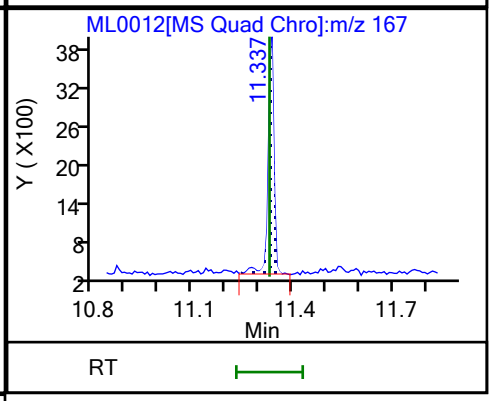
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20221201-72264.b\ML0012.D				
Injection Date:	01-Dec-2022 06:22:12	Instrument ID:	HP21585		
Lims ID:	410-106360-B-3-C	Lab Sample ID:	410-106360-3		
Client ID:	FBW001_112022				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

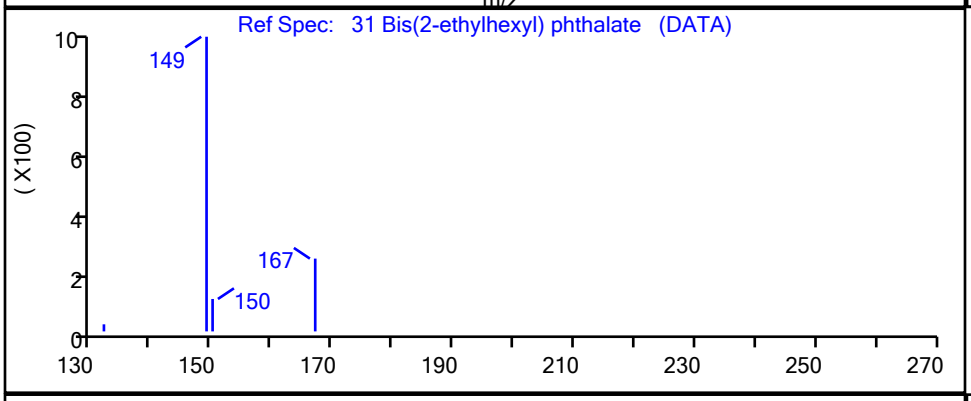
31 Bis(2-ethylhexyl) phthalate, CAS: 117-81-7

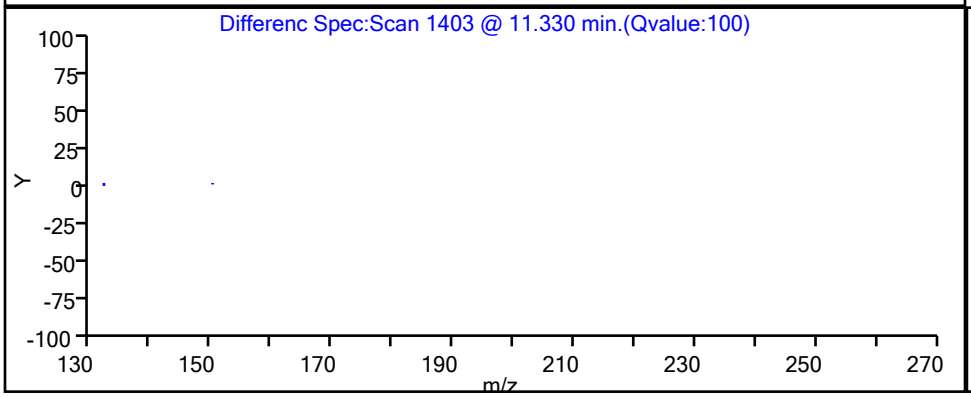


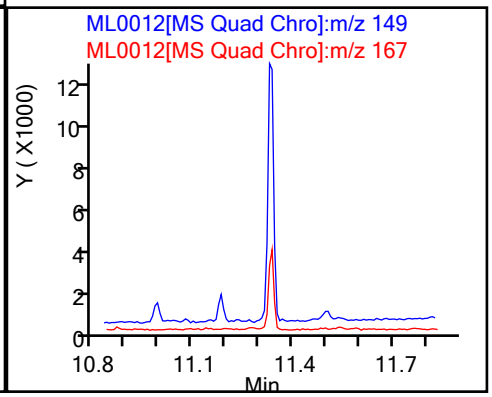












FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-106360-1

SDG No.:

Client Sample ID: FBW001_112022 RE
Lab Sample ID: 410-106360-3 RE

Matrix: Water
Lab File ID: NL0177.D

Analysis Method: 8270D SIM
Date Collected: 11/17/2022 10:20

Extract. Method: 3510C
Date Extracted: 12/03/2022 03:22

Sample wt/vol: 244.4(mL)
Date Analyzed: 12/05/2022 11:11

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 323522
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND	H	0.31	0.10
90-12-0	1-Methylnaphthalene	ND	H	0.051	0.020
91-57-6	2-Methylnaphthalene	ND	H	0.051	0.020
83-32-9	Acenaphthene	ND	H	0.051	0.010
208-96-8	Acenaphthylene	ND	H	0.051	0.010
120-12-7	Anthracene	ND	H	0.051	0.010
56-55-3	Benzo[a]anthracene	ND	H	0.051	0.010
50-32-8	Benzo[a]pyrene	ND	H	0.051	0.010
205-99-2	Benzo[b]fluoranthene	ND	H	0.051	0.010
191-24-2	Benzo[g,h,i]perylene	ND	H	0.051	0.010
207-08-9	Benzo[k]fluoranthene	ND	H	0.051	0.010
111-44-4	Bis(2-chloroethyl)ether	ND	H F1	0.051	0.020
117-81-7	Bis(2-ethylhexyl) phthalate	0.16	J H B	1.0	0.051
85-68-7	Butylbenzylphthalate	ND	H	1.0	0.051
218-01-9	Chrysene	ND	H	0.051	0.010
53-70-3	Dibenz(a,h)anthracene	ND	H	0.051	0.020
132-64-9	Dibenzofuran	ND	H	0.051	0.010
84-66-2	Diethylphthalate	ND	H	1.0	0.051
131-11-3	Dimethylphthalate	ND	H *1	1.0	0.051
84-74-2	Di-n-butyl phthalate	2.5	H B * + *1 F1	1.0	0.051
117-84-0	Di-n-octyl phthalate	ND	H	1.0	0.051
206-44-0	Fluoranthene	ND	H	0.051	0.010
86-73-7	Fluorene	ND	H	0.051	0.010
118-74-1	Hexachlorobenzene	ND	H	0.051	0.020
193-39-5	Indeno[1,2,3-cd]pyrene	ND	H	0.051	0.020
91-20-3	Naphthalene	ND	H	0.072	0.031
62-75-9	N-Nitrosodimethylamine	ND	H	0.051	0.020
85-01-8	Phenanthrene	ND	H	0.072	0.031
129-00-0	Pyrene	ND	H	0.051	0.010

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-106360-1

SDG No.:

Client Sample ID: FBW001_112022 RE Lab Sample ID: 410-106360-3 RE

Matrix: Water Lab File ID: NL0177.D

Analysis Method: 8270D SIM Date Collected: 11/17/2022 10:20

Extract. Method: 3510C Date Extracted: 12/03/2022 03:22

Sample wt/vol: 244.4(mL) Date Analyzed: 12/05/2022 11:11

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor: Level: (low/med) Low

Analysis Batch No.: 323522 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
38072-94-5	1-Methylnaphthalene-d10 (Surr)	41		36-111
63466-71-7	Benzo(a)pyrene-d12 (Surr)	65		10-110
93951-69-0	Fluoranthene-d10 (Surr)	57		47-128

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\NL0177.D
Lims ID: 410-106360-C-3-A RE
Client ID: FBW001_112022
Sample Type: Client
Inject. Date: 05-Dec-2022 11:11:30 ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-106360-C-3-A
Misc. Info.: 410-0072499-018
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 05-Dec-2022 16:00:35 Calib Date: 05-Oct-2022 11:42:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0026.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1618

First Level Reviewer: SJ89 Date: 05-Dec-2022 15:56:24

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	4.556	4.556	0.000	100	40636	0.2500	
* 5 Naphthalene-d8	136	5.768	5.768	0.000	100	131830	0.2500	
$ 9 1-Methylnaphthalene-d10	152	6.508	6.505	0.003	98	24959	0.1029	
* 13 Acenaphthene-d10	164	7.439	7.437	0.002	97	53701	0.2500	
16 Diethyl phthalate	149	7.853	7.853	-0.005	88	2089	0.008911	
* 20 Phenanthrene-d10	188	8.849	8.854	-0.005	100	81431	0.2500	
23 Di-n-butyl phthalate	149	9.419	9.411	0.003	100	170225	0.6022	
$ 24 Fluoranthene-d10 (Surr)	212	9.989	9.981	0.002	96	42047	0.1416	
* 29 Chrysene-d12	240	11.517	11.513	0.004	81	40677	0.2500	
31 Bis(2-ethylhexyl) phthalate	149	11.571	11.578	-0.003	98	3508	0.0382	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.358	13.358	-0.003	97	23118	0.1616	
* 38 Perylene-d12	264	13.473	13.476	-0.003	98	37264	0.2500	

QC Flag Legend
Processing Flags

Reagents:
MSS_RVSIM_IS_00032 Amount Added: 10.00 Units: uL Run Reagent

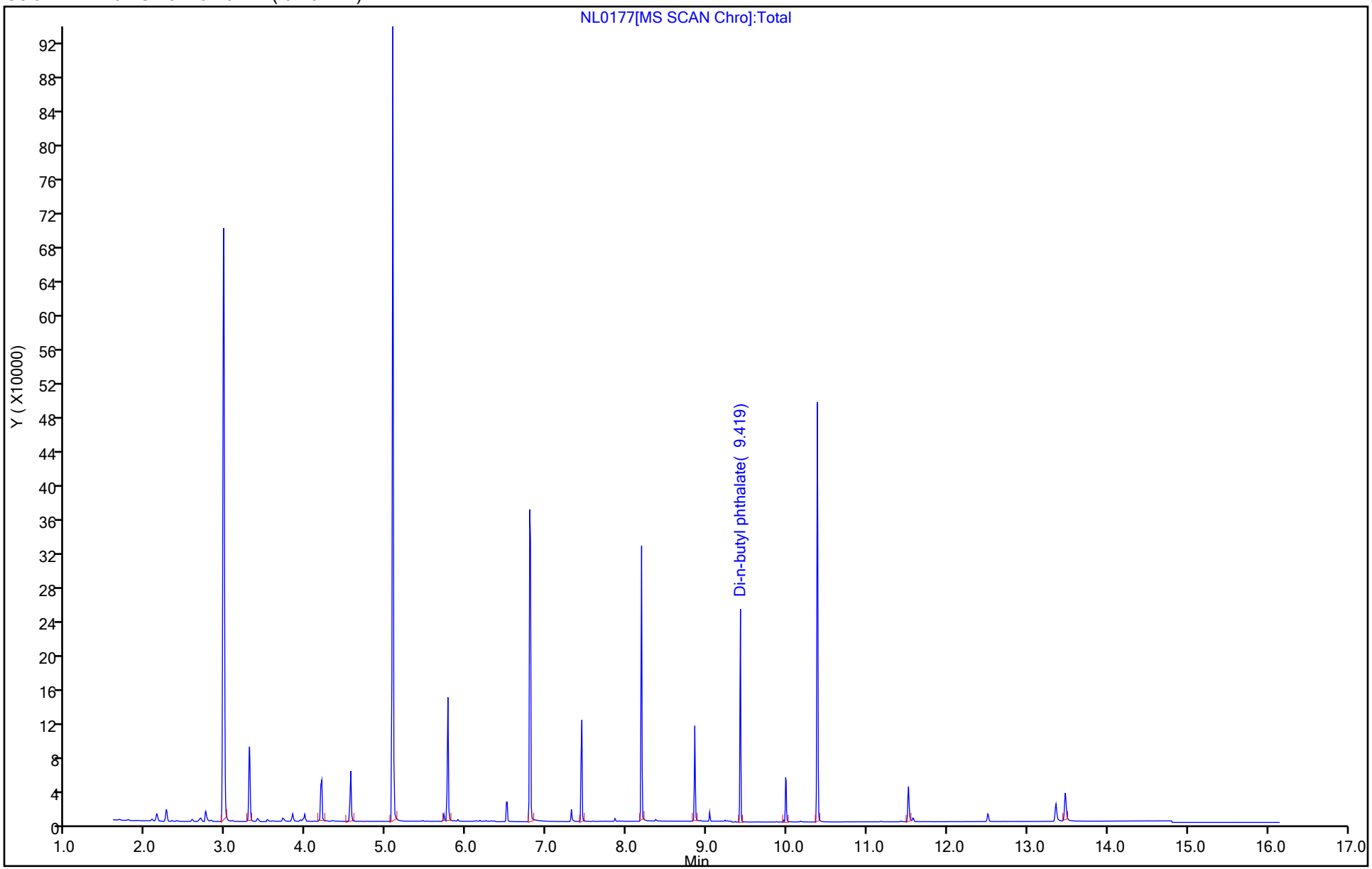
Report Date: 05-Dec-2022 16:00:39 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\NL0177.D

Injection Date:	05-Dec-2022 11:11:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	410-106360-C-3-A RE	Lab Sample ID:	410-106360-3	Worklist Smp#:	18
Client ID:	FBW001_112022				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\NL0177.D				
Lims ID:	410-106360-C-3-A RE				
Client ID:	FBW001_112022				
Sample Type:	Client				
Inject. Date:	05-Dec-2022 11:11:30	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-106360-C-3-A				
Misc. Info.:	410-0072499-018				
Operator ID:	jmg00346	Instrument ID:	HP23263		
Method:	\\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\8270_SIM_HP23263.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	05-Dec-2022 16:00:35	Calib Date:	05-Oct-2022 11:42:30		
Integrator:	Falcon	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0026.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1618				

First Level Reviewer: SJ89 Date: 05-Dec-2022 15:56:24

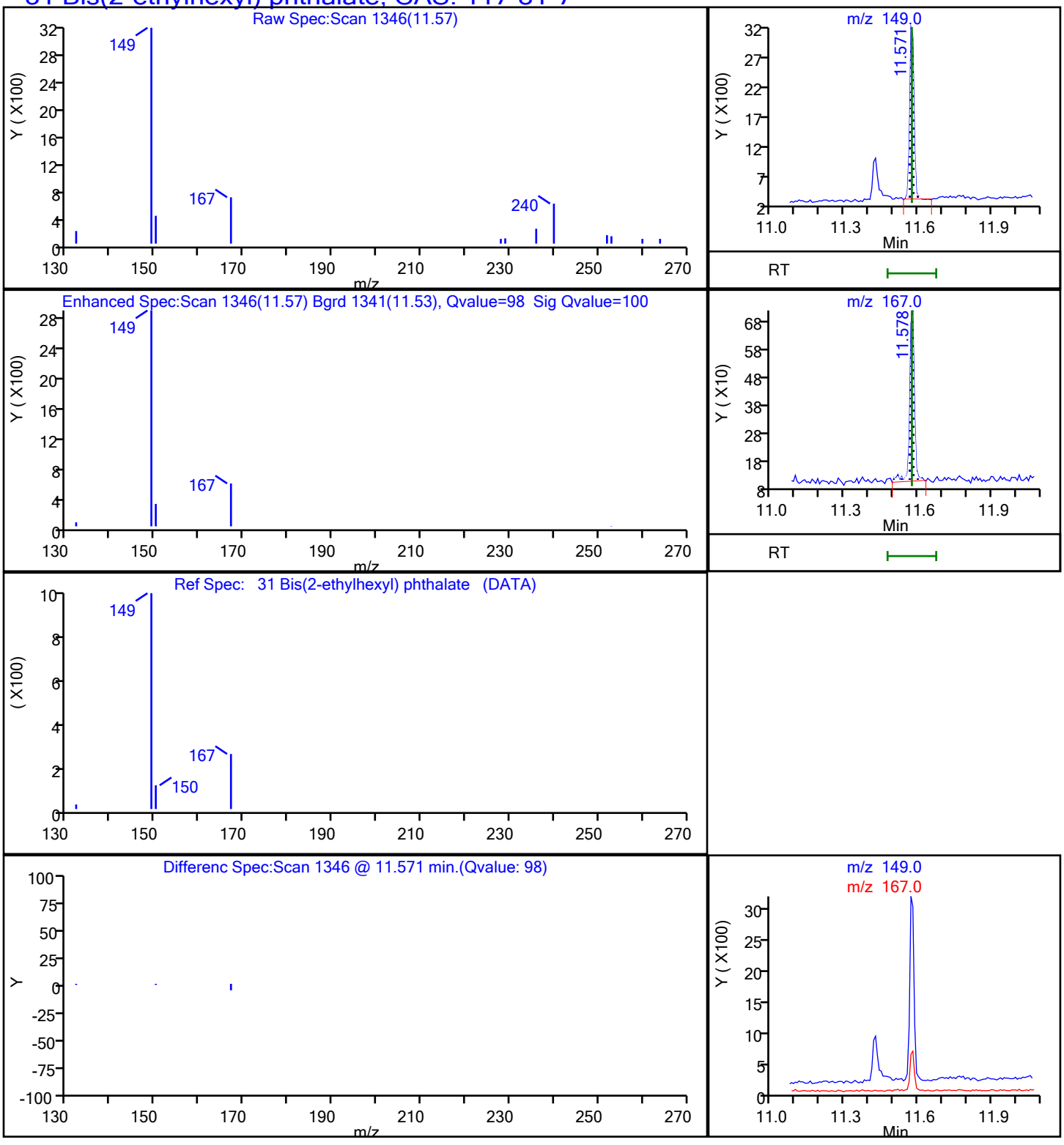
Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1-Methylnaphthalene-d10	0.2500	0.1029	41.17
$ 24 Fluoranthene-d10 (Surr)	0.2500	0.1416	56.66
$ 36 Benzo(a)pyrene-d12 (Surr)	0.2500	0.1616	64.64

Report Date: 05-Dec-2022 16:00:39 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\NL0177.D				
Injection Date:	05-Dec-2022 11:11:30	Instrument ID:	HP23263		
Lims ID:	410-106360-C-3-A RE	Lab Sample ID:	410-106360-3		
Client ID:	FBW001_112022				
Operator ID:	jmg00346	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

31 Bis(2-ethylhexyl) phthalate, CAS: 117-81-7

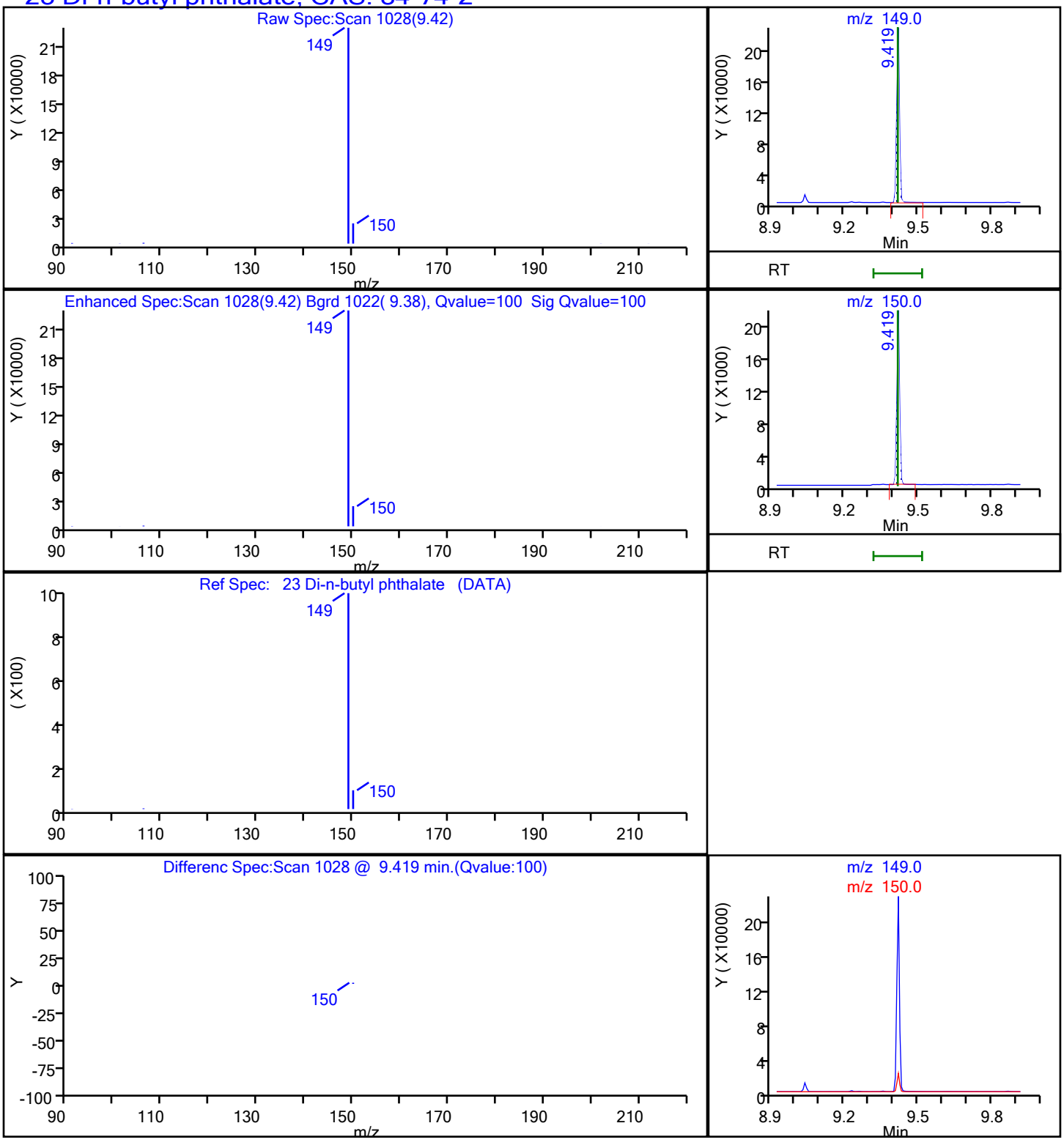


Report Date: 05-Dec-2022 16:00:39 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\NL0177.D				
Injection Date:	05-Dec-2022 11:11:30	Instrument ID:	HP23263		
Lims ID:	410-106360-C-3-A RE	Lab Sample ID:	410-106360-3		
Client ID:	FBW001_112022				
Operator ID:	jmg00346	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

23 Di-n-butyl phthalate, CAS: 84-74-2



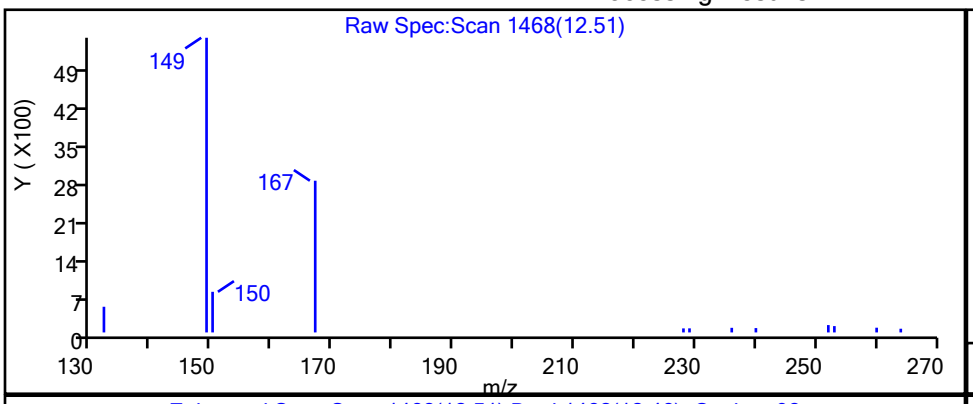
User Disabled Compound Report

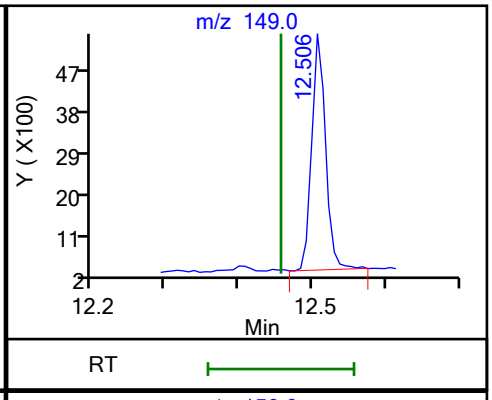
Eurofins Lancaster Laboratories Environment Testing, LLC

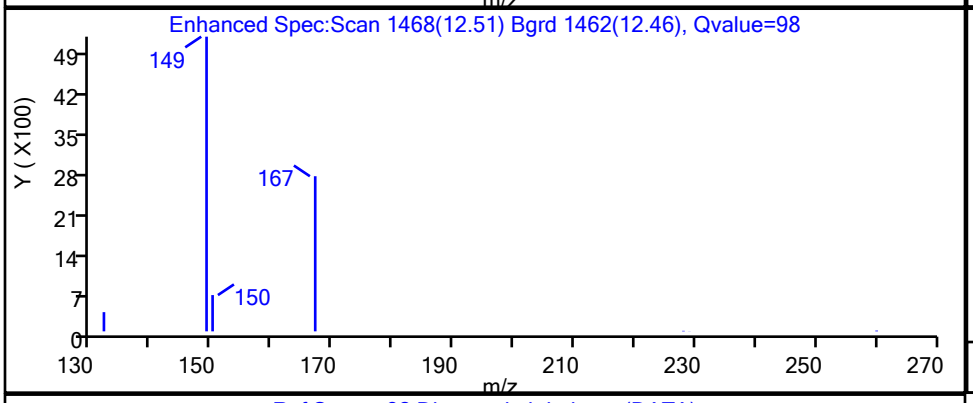
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\NL0177.D				
Injection Date:	05-Dec-2022 11:11:30	Instrument ID:	HP23263		
Lims ID:	410-106360-C-3-A RE	Lab Sample ID:	410-106360-3		
Client ID:	FBW001_112022				
Operator ID:	jmg00346	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

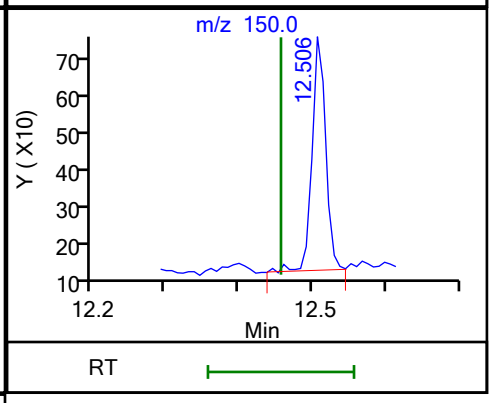
32 Di-n-octyl phthalate, CAS: 117-84-0

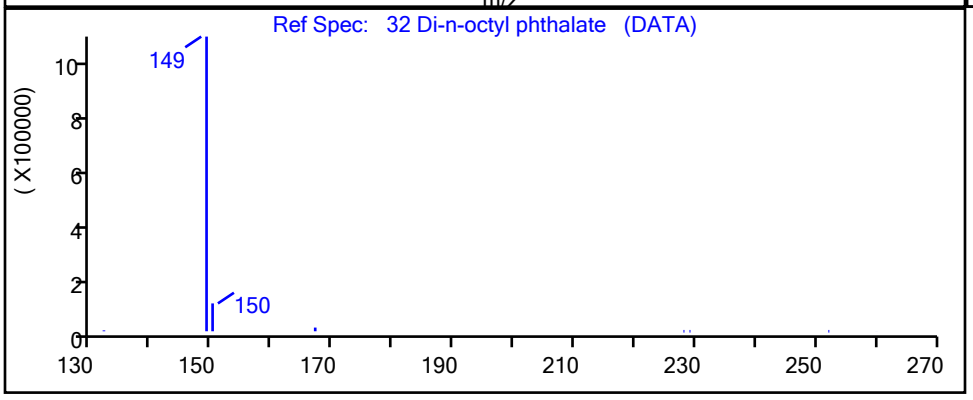
Processing Results











RT	Mass	Response	Amount
12.51	149.00	6769	0.045780
12.51	150.00	834	

Reviewer: SJ89, 05-Dec-2022 15:56:20

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-106360-1

SDG No.:

Client Sample ID: FBW001_FB_112022
Lab Sample ID: 410-106360-4

Matrix: Water
Lab File ID: NK1417.D

Analysis Method: 8270D SIM
Date Collected: 11/17/2022 10:14

Extract. Method: 3510C
Date Extracted: 11/23/2022 17:30

Sample wt/vol: 237.5(mL)
Date Analyzed: 11/30/2022 16:15

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 321961
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.32	0.11
90-12-0	1-Methylnaphthalene	ND		0.053	0.021
91-57-6	2-Methylnaphthalene	ND		0.053	0.021
83-32-9	Acenaphthene	ND		0.053	0.011
208-96-8	Acenaphthylene	ND		0.053	0.011
120-12-7	Anthracene	ND		0.053	0.011
56-55-3	Benzo[a]anthracene	ND		0.053	0.011
50-32-8	Benzo[a]pyrene	ND		0.053	0.011
205-99-2	Benzo[b]fluoranthene	ND		0.053	0.011
191-24-2	Benzo[g,h,i]perylene	ND		0.053	0.011
207-08-9	Benzo[k]fluoranthene	ND		0.053	0.011
111-44-4	Bis(2-chloroethyl)ether	ND		0.053	0.021
85-68-7	Butylbenzylphthalate	ND	cn	1.1	0.053
218-01-9	Chrysene	ND		0.053	0.011
53-70-3	Dibenz(a,h)anthracene	ND		0.053	0.021
132-64-9	Dibenzofuran	ND		0.053	0.011
84-66-2	Diethylphthalate	ND		1.1	0.053
131-11-3	Dimethylphthalate	ND		1.1	0.053
84-74-2	Di-n-butyl phthalate	0.57	J *+ B *1 cn	1.1	0.053
117-84-0	Di-n-octyl phthalate	ND		1.1	0.053
206-44-0	Fluoranthene	ND		0.053	0.011
86-73-7	Fluorene	ND		0.053	0.011
118-74-1	Hexachlorobenzene	ND		0.053	0.021
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.053	0.021
91-20-3	Naphthalene	ND		0.074	0.032
62-75-9	N-Nitrosodimethylamine	ND		0.053	0.021
85-01-8	Phenanthrene	ND		0.074	0.032
129-00-0	Pyrene	ND		0.053	0.011

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-106360-1

SDG No.:

Client Sample ID: FBW001_FB_112022 Lab Sample ID: 410-106360-4

Matrix: Water Lab File ID: NK1417.D

Analysis Method: 8270D SIM Date Collected: 11/17/2022 10:14

Extract. Method: 3510C Date Extracted: 11/23/2022 17:30

Sample wt/vol: 237.5(mL) Date Analyzed: 11/30/2022 16:15

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor: Level: (low/med) Low

Analysis Batch No.: 321961 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
38072-94-5	1-Methylnaphthalene-d10 (Surr)	82		36-111
63466-71-7	Benzo(a)pyrene-d12 (Surr)	77		10-110
93951-69-0	Fluoranthene-d10 (Surr)	70		47-128

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1417.D
Lims ID: 410-106360-B-4-A
Client ID: FBW001_FB_112022
Sample Type: Client
Inject. Date: 30-Nov-2022 16:15:30 ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-106360-B-4-A
Misc. Info.: 410-0072166-018
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 01-Dec-2022 04:31:08 Calib Date: 05-Oct-2022 11:42:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0026.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: UJM0 Date: 01-Dec-2022 04:29:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
3 Bis(2-chloroethyl)ether	93	4.281	4.306	-0.012	50	506	0.002779	
* 4 1,4-Dichlorobenzene-d4	152	4.568	4.568	0.000	95	39711	0.2500	
* 5 Naphthalene-d8	136	5.780	5.768	0.012	100	128463	0.2500	
$ 9 1-Methylnaphthalene-d10	152	6.508	6.522	0.000	99	48485	0.2052	
* 13 Acenaphthene-d10	164	7.449	7.439	0.010	94	54022	0.2500	
16 Diethyl phthalate	149	7.860	7.867	0.000	88	1597	0.006772	
* 20 Phenanthrene-d10	188	8.857	8.849	0.008	100	72665	0.2500	
23 Di-n-butyl phthalate	149	9.425	9.427	0.006	100	34066	0.1351	
$ 24 Fluoranthene-d10 (Surr)	212	9.989	10.008	0.000	100	46366	0.1750	
25 Fluoranthene	202	10.008	10.008	0.000	33	611	0.001917	
26 Pyrene	202	10.227	10.221	0.006	97	450	0.001593	
* 29 Chrysene-d12	240	11.524	11.517	0.007	82	37833	0.2500	
31 Bis(2-ethylhexyl) phthalate	149	11.578	11.578	0.000	99	20269	0.2370	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.365	13.365	0.000	99	25755	0.1934	
* 38 Perylene-d12	264	13.488	13.480	0.008	96	34688	0.2500	

QC Flag Legend

Processing Flags

Reagents:

MSS_RVSIM_IS_00032 Amount Added: 10.00 Units: uL Run Reagent

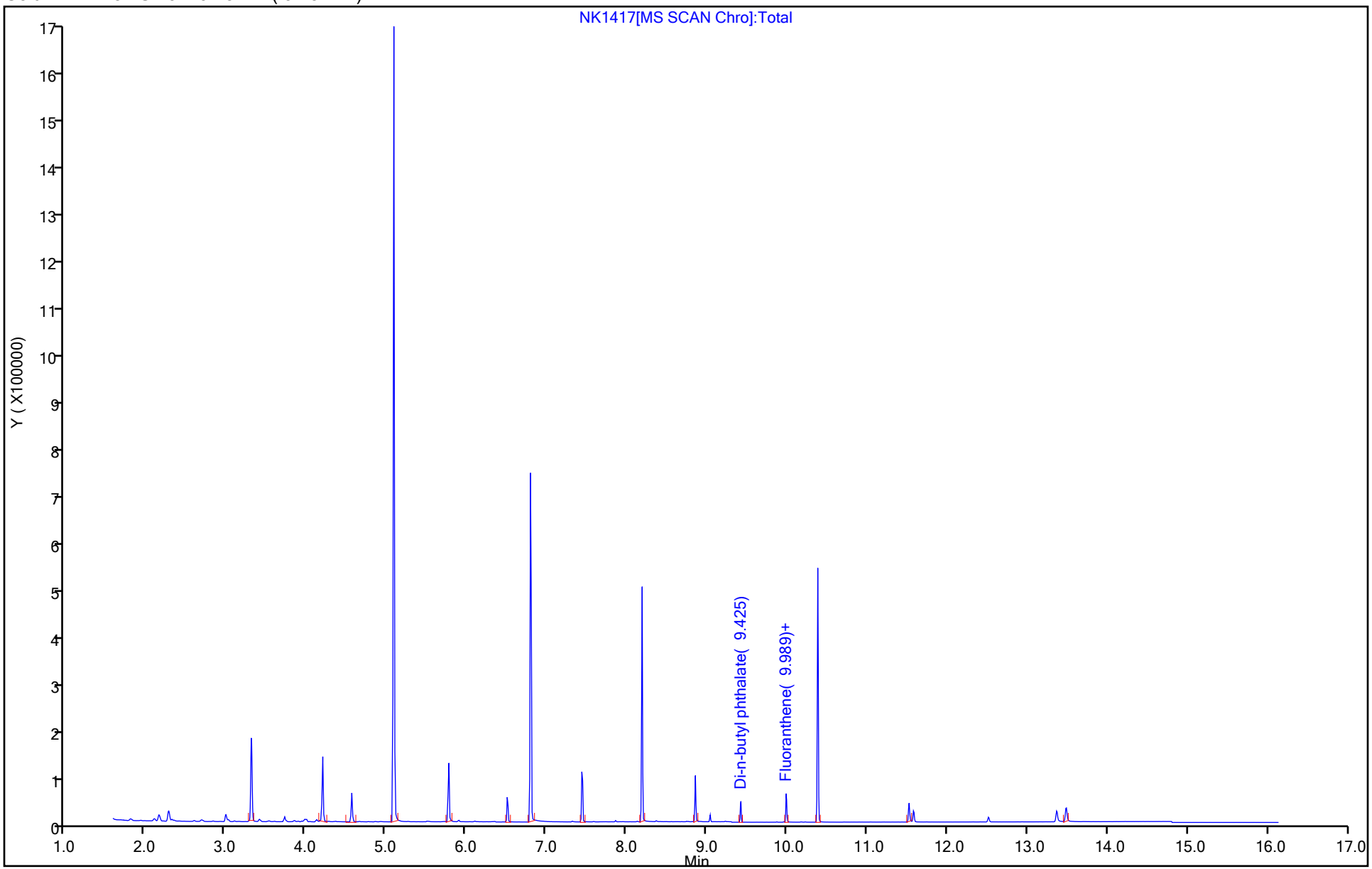
Report Date: 01-Dec-2022 04:31:54 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1417.D

Injection Date:	30-Nov-2022 16:15:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	410-106360-B-4-A	Lab Sample ID:	410-106360-4	Worklist Smp#:	18
Client ID:	FBW001_FB_112022				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1417.D				
Lims ID:	410-106360-B-4-A				
Client ID:	FBW001_FB_112022				
Sample Type:	Client				
Inject. Date:	30-Nov-2022 16:15:30	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-106360-B-4-A				
Misc. Info.:	410-0072166-018				
Operator ID:	jmg00346	Instrument ID:	HP23263		
Method:	\\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\8270_SIM_HP23263.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	01-Dec-2022 04:31:08	Calib Date:	05-Oct-2022 11:42:30		
Integrator:	Falcon	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0026.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1611				

First Level Reviewer: UJM0 Date: 01-Dec-2022 04:29:35

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1-Methylnaphthalene-d10	0.2500	0.2052	82.07
$ 24 Fluoranthene-d10 (Surr)	0.2500	0.1750	70.01
$ 36 Benzo(a)pyrene-d12 (Surr)	0.2500	0.1934	77.36

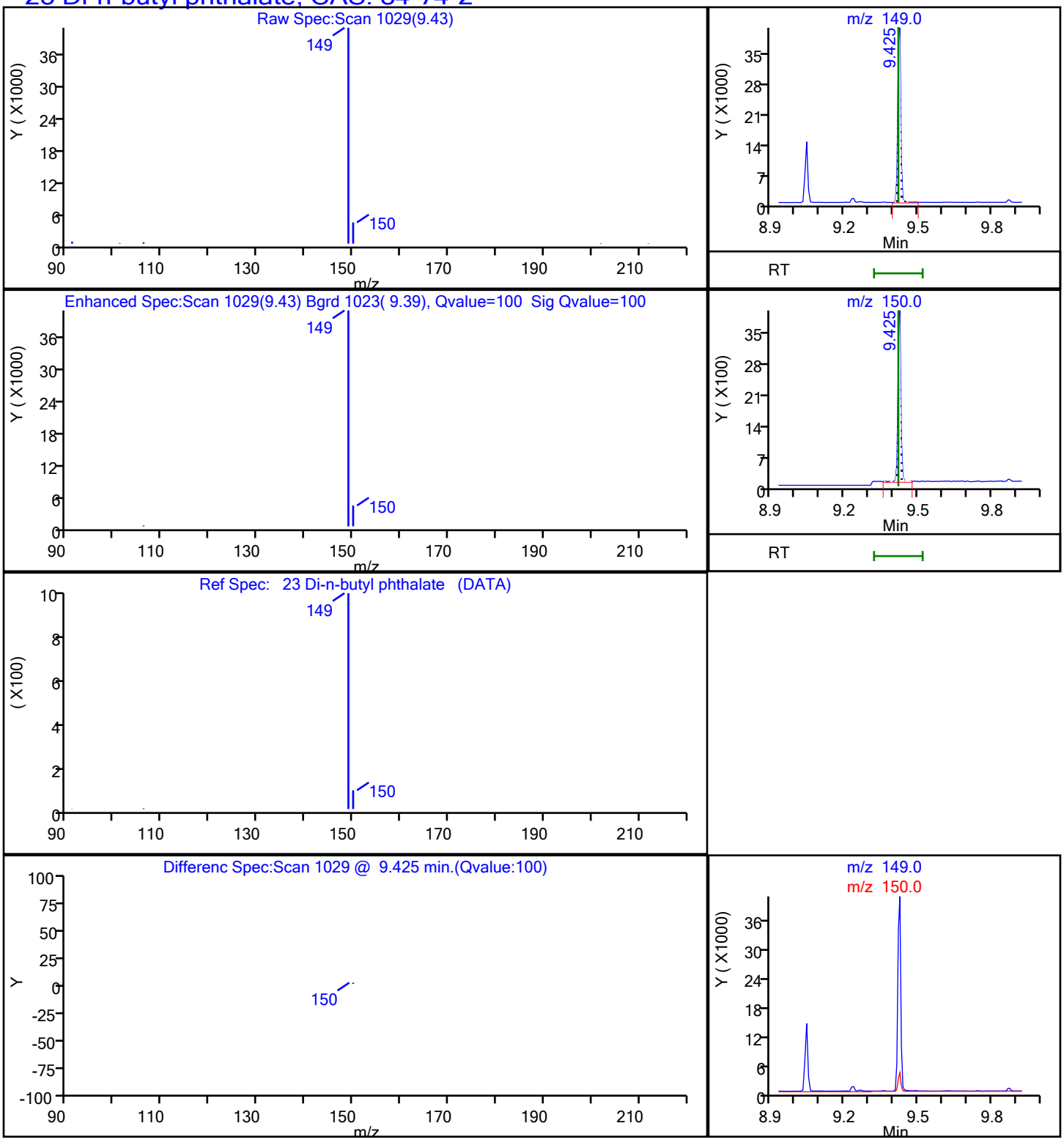
Report Date: 01-Dec-2022 04:31:54 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1417.D

Injection Date:	30-Nov-2022 16:15:30	Instrument ID:	HP23263		
Lims ID:	410-106360-B-4-A	Lab Sample ID:	410-106360-4		
Client ID:	FBW001_FB_112022				
Operator ID:	jmg00346	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

23 Di-n-butyl phthalate, CAS: 84-74-2



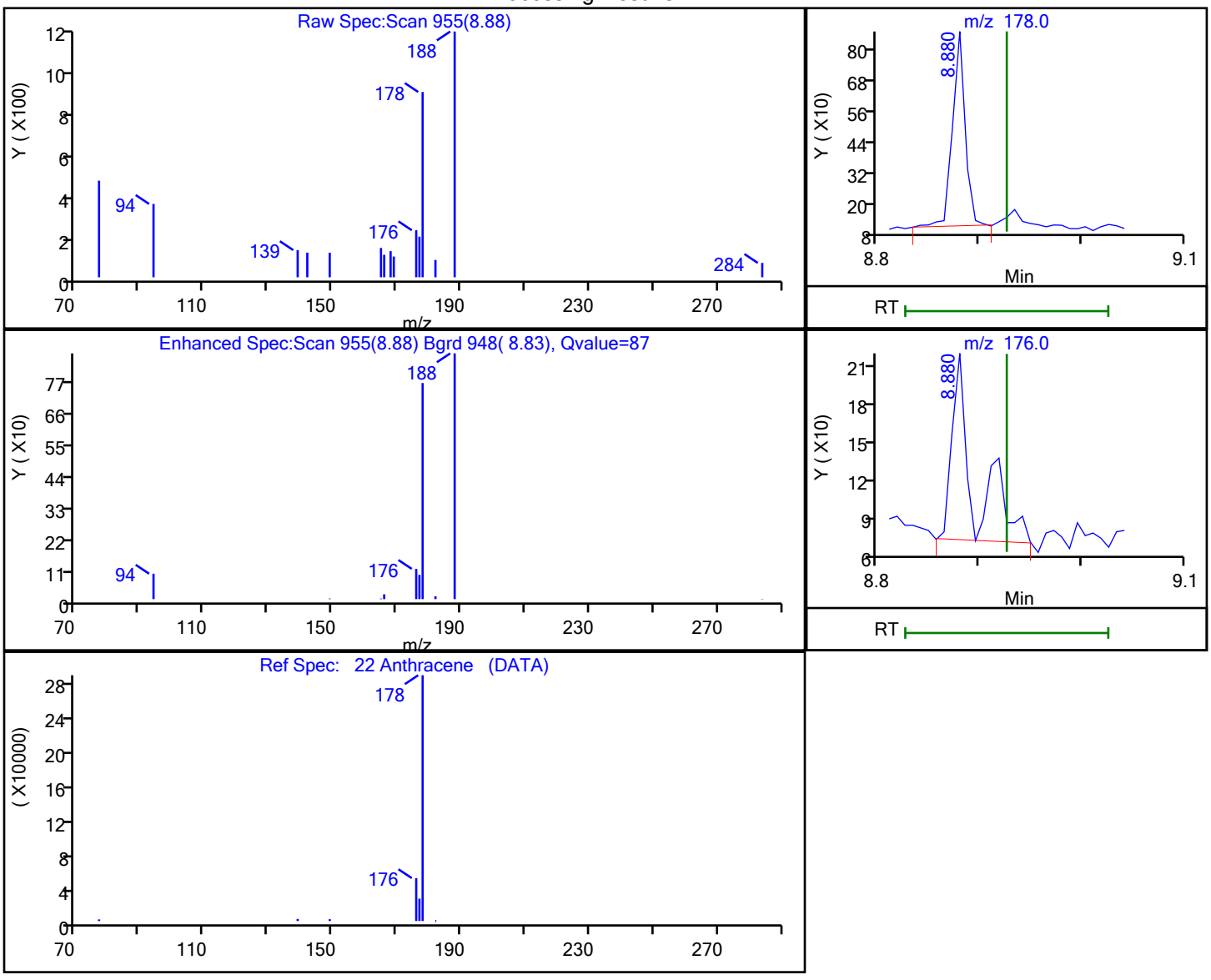
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1417.D				
Injection Date:	30-Nov-2022 16:15:30	Instrument ID:	HP23263		
Lims ID:	410-106360-B-4-A	Lab Sample ID:	410-106360-4		
Client ID:	FBW001_FB_112022				
Operator ID:	jmg00346	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

22 Anthracene, CAS: 120-12-7

Processing Results



RT	Mass	Response	Amount
8.88	178.00	673	0.002110
8.88	176.00	217	

Reviewer: UJM0, 01-Dec-2022 04:29:20

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

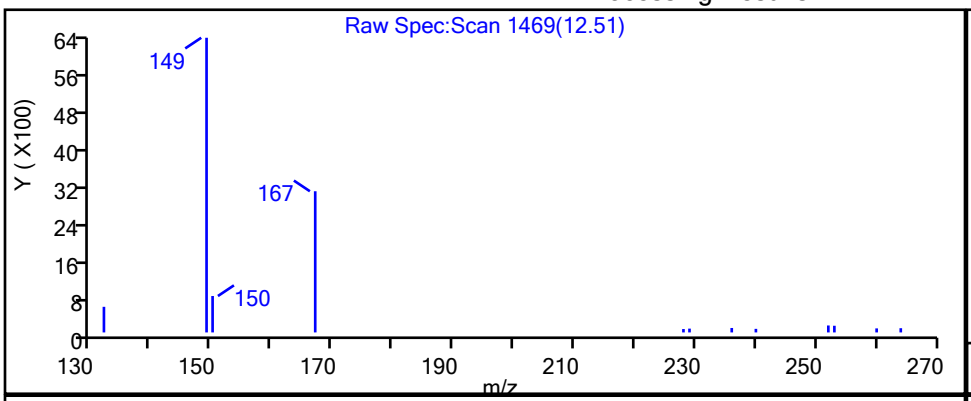
User Disabled Compound Report

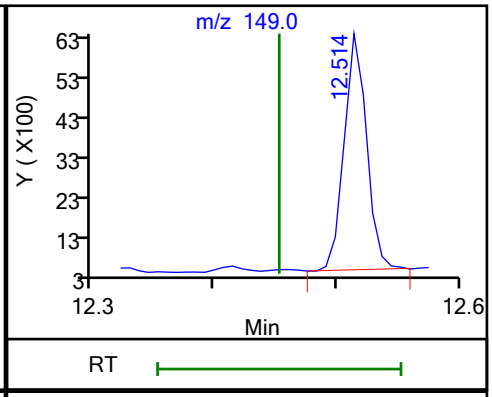
Eurofins Lancaster Laboratories Environment Testing, LLC

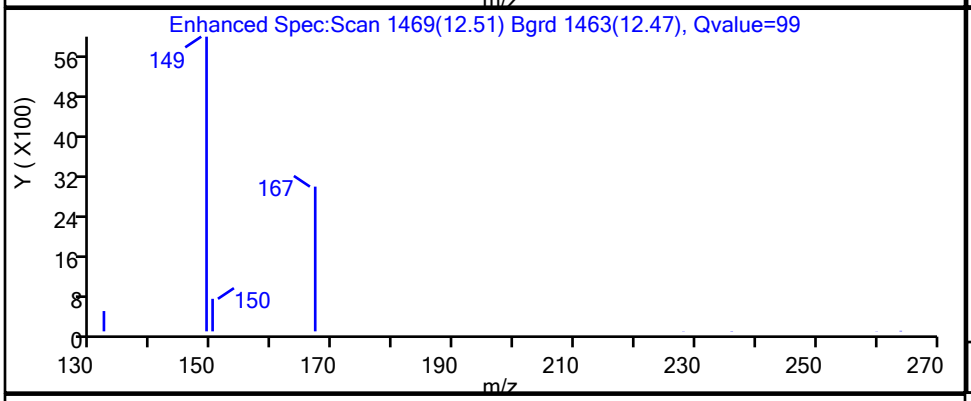
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1417.D				
Injection Date:	30-Nov-2022 16:15:30	Instrument ID:	HP23263		
Lims ID:	410-106360-B-4-A	Lab Sample ID:	410-106360-4		
Client ID:	FBW001_FB_112022				
Operator ID:	jmg00346	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

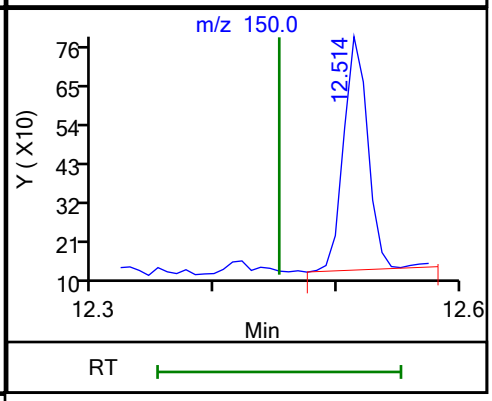
32 Di-n-octyl phthalate, CAS: 117-84-0

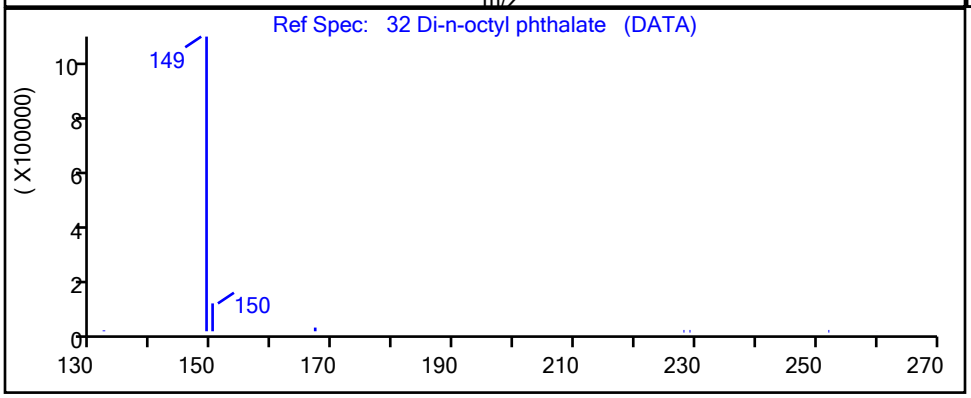
Processing Results











RT	Mass	Response	Amount
12.51	149.00	7679	0.055791
12.51	150.00	933	

Reviewer: UJM0, 01-Dec-2022 04:29:31

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-106360-1

SDG No.:

Client Sample ID: FBW001_FB_112022 RA
Lab Sample ID: 410-106360-4 RA

Matrix: Water
Lab File ID: ML0017.D

Analysis Method: 8270D SIM
Date Collected: 11/17/2022 10:14

Extract. Method: 3510C
Date Extracted: 11/23/2022 17:30

Sample wt/vol: 237.5(mL)
Date Analyzed: 12/01/2022 08:08

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 322405
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
117-81-7	Bis(2-ethylhexyl) phthalate	1.1	B cn	1.1	0.053

CAS NO.	SURROGATE	%REC	Q	LIMITS
38072-94-5	1-Methylnaphthalene-d10 (Surr)	75		36-111
63466-71-7	Benzo(a)pyrene-d12 (Surr)	78		10-110
93951-69-0	Fluoranthene-d10 (Surr)	81		47-128

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20221201-72264.b\ML0017.D
Lims ID: 410-106360-B-4-A
Client ID: FBW001_FB_112022
Sample Type: Client
Inject. Date: 01-Dec-2022 08:08:48 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-106360-B-4-A
Misc. Info.: 410-0072264-008
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20221201-72264.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 01-Dec-2022 08:49:37 Calib Date: 28-Jul-2022 21:32:00
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20220728-62933.b\MG1356.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: UJM0 Date: 01-Dec-2022 08:49:37

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	4.368	4.368	0.000	92	56490	0.2500	
* 5 Naphthalene-d8	136	5.568	5.568	0.000	91	183993	0.2500	
$ 9 1-Methylnaphthalene-d10	152	6.303	6.303	0.000	97	78708	0.1872	
* 13 Acenaphthene-d10	164	7.238	7.238	0.000	86	105930	0.2500	
* 20 Phenanthrene-d10	188	8.648	8.648	0.000	94	201794	0.2500	
23 Di-n-butyl phthalate	149	9.218	9.218	0.000	98	94286	0.1272	
$ 24 Fluoranthene-d10 (Surr)	212	9.780	9.780	0.000	99	172152	0.2025	
25 Fluoranthene	202	9.799	9.799	0.000	98	2234	0.002131	7M
* 29 Chrysene-d12	240	11.268	11.268	0.000	55	178707	0.2500	
31 Bis(2-ethylhexyl) phthalate	149	11.329	11.329	0.000	100	84097	0.2663	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.032	13.032	0.000	99	109449	0.1959	
* 38 Perylene-d12	264	13.147	13.147	0.000	99	151120	0.2500	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00033 Amount Added: 10.00 Units: uL Run Reagent

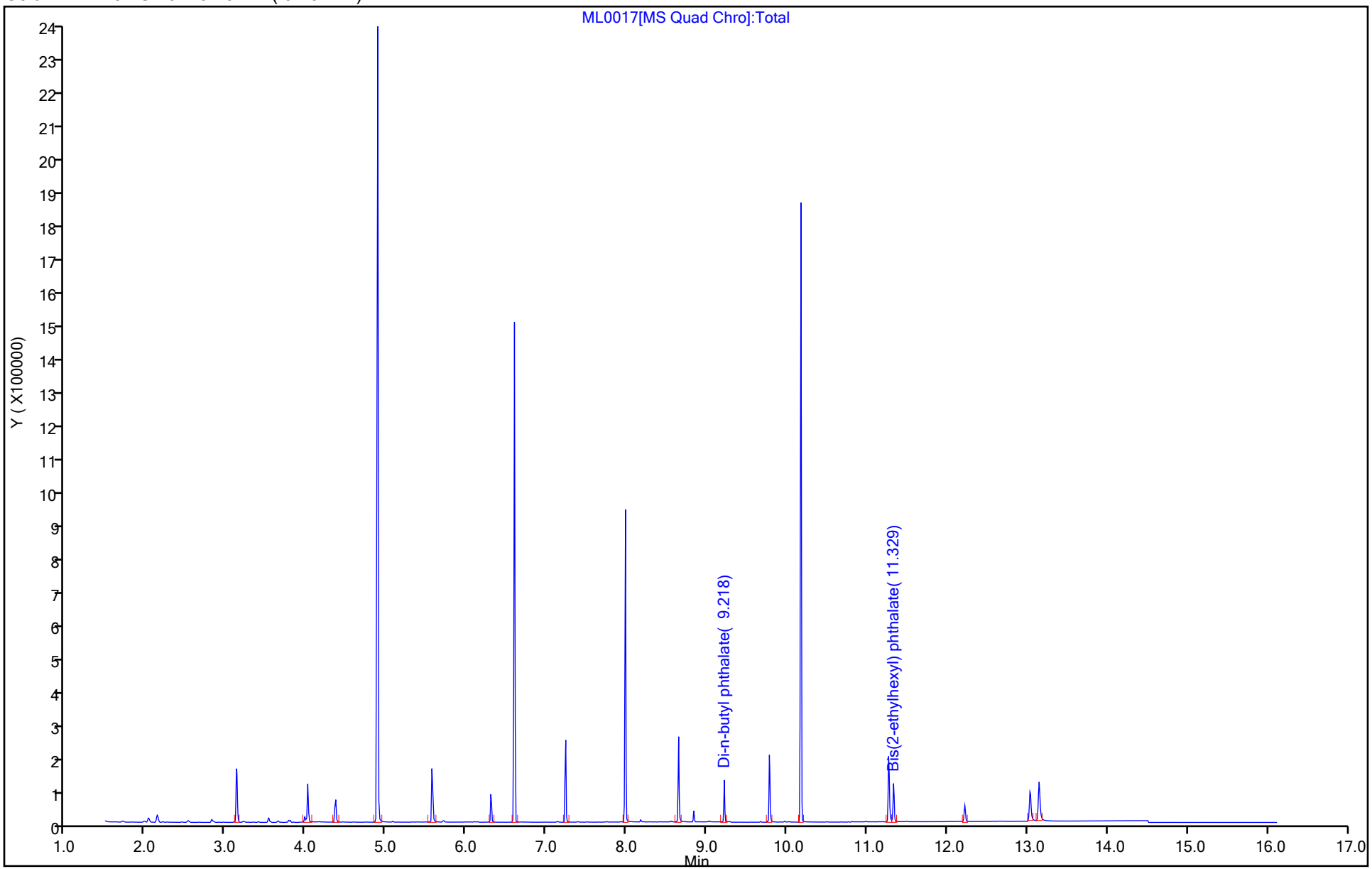
Report Date: 01-Dec-2022 08:50:03 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20221201-72264.b\ML0017.D

Injection Date:	01-Dec-2022 08:08:48	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	410-106360-B-4-A	Lab Sample ID:	410-106360-4	Worklist Smp#:	8
Client ID:	FBW001_FB_112022				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20221201-72264.b\ML0017.D				
Lims ID:	410-106360-B-4-A				
Client ID:	FBW001_FB_112022				
Sample Type:	Client				
Inject. Date:	01-Dec-2022 08:08:48	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-106360-B-4-A				
Misc. Info.:	410-0072264-008				
Operator ID:	jmg00346	Instrument ID:	HP21585		
Method:	\\chromfs\Lancaster\ChromData\HP21585\20221201-72264.b\8270_SIM_HP21585.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	01-Dec-2022 08:49:37	Calib Date:	28-Jul-2022 21:32:00		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP21585\20220728-62933.b\MG1356.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1611				

First Level Reviewer: UJM0 Date: 01-Dec-2022 08:49:37

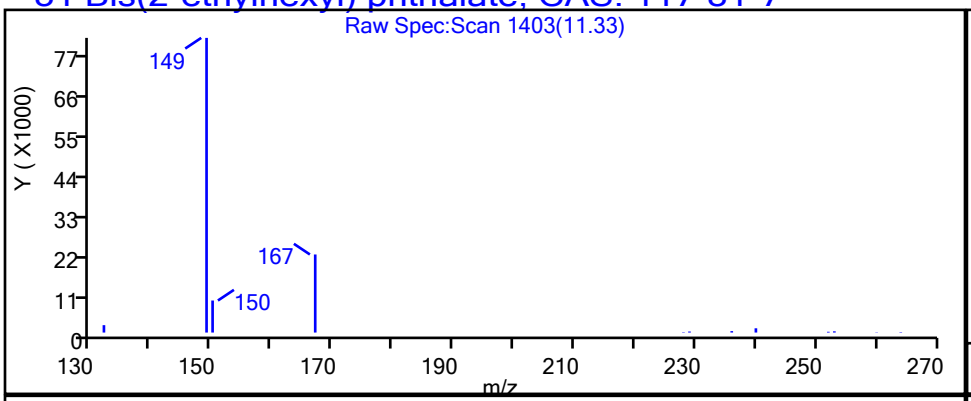
Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1-Methylnaphthalene-d10	0.2500	0.1872	74.88
$ 24 Fluoranthene-d10 (Surr)	0.2500	0.2025	81.00
$ 36 Benzo(a)pyrene-d12 (Surr)	0.2500	0.1959	78.37

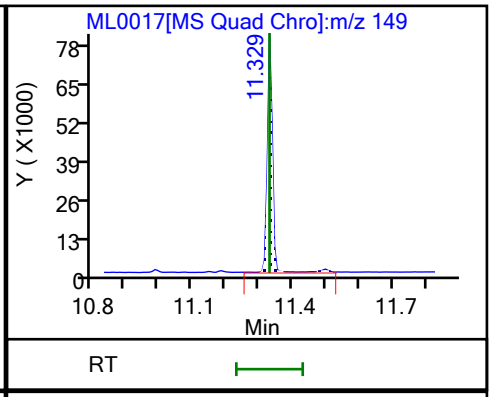
Report Date: 01-Dec-2022 08:50:03 Chrom Revision: 2.3 22-Nov-2022 16:59:54

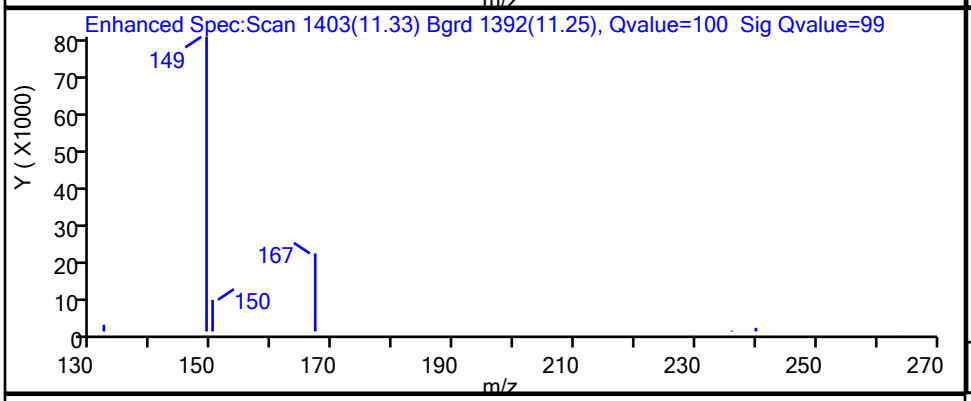
Eurofins Lancaster Laboratories Environment Testing, LLC

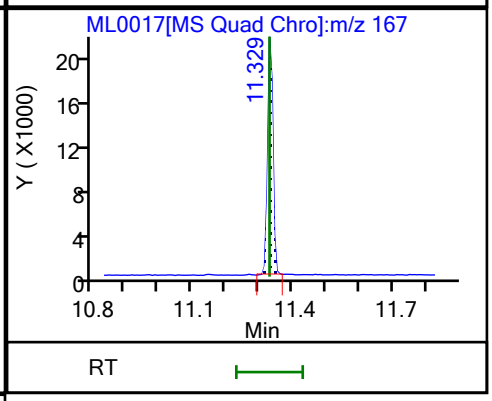
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20221201-72264.b\ML0017.D				
Injection Date:	01-Dec-2022 08:08:48	Instrument ID:	HP21585		
Lims ID:	410-106360-B-4-A	Lab Sample ID:	410-106360-4		
Client ID:	FBW001_FB_112022				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

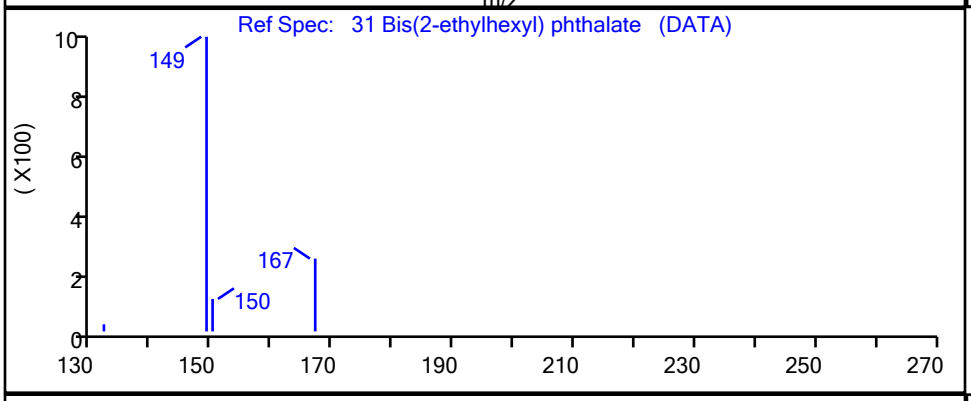
31 Bis(2-ethylhexyl) phthalate, CAS: 117-81-7

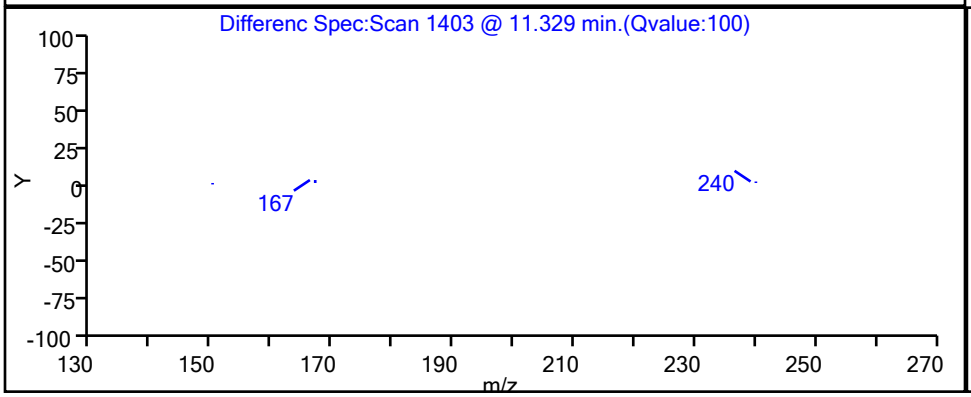


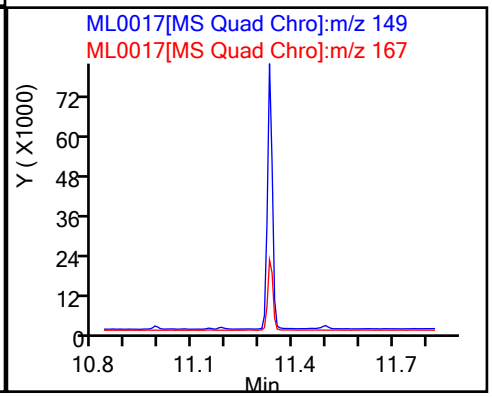












FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-106360-1

SDG No.:

Client Sample ID: FBW001_FB_112022 RE
Lab Sample ID: 410-106360-4 RE

Matrix: Water
Lab File ID: NL0180.D

Analysis Method: 8270D SIM
Date Collected: 11/17/2022 10:14

Extract. Method: 3510C
Date Extracted: 12/03/2022 03:22

Sample wt/vol: 235.9(mL)
Date Analyzed: 12/05/2022 12:16

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 323522
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND	H	0.32	0.11
90-12-0	1-Methylnaphthalene	ND	H	0.053	0.021
91-57-6	2-Methylnaphthalene	ND	H	0.053	0.021
83-32-9	Acenaphthene	ND	H	0.053	0.011
208-96-8	Acenaphthylene	ND	H	0.053	0.011
120-12-7	Anthracene	ND	H	0.053	0.011
56-55-3	Benzo[a]anthracene	ND	H	0.053	0.011
50-32-8	Benzo[a]pyrene	ND	H	0.053	0.011
205-99-2	Benzo[b]fluoranthene	ND	H	0.053	0.011
191-24-2	Benzo[g,h,i]perylene	ND	H	0.053	0.011
207-08-9	Benzo[k]fluoranthene	ND	H	0.053	0.011
111-44-4	Bis(2-chloroethyl)ether	ND	H	0.053	0.021
117-81-7	Bis(2-ethylhexyl) phthalate	0.74	J H B	1.1	0.053
85-68-7	Butylbenzylphthalate	ND	H	1.1	0.053
218-01-9	Chrysene	ND	H	0.053	0.011
53-70-3	Dibenz(a,h)anthracene	ND	H	0.053	0.021
132-64-9	Dibenzofuran	ND	H	0.053	0.011
84-66-2	Diethylphthalate	ND	H	1.1	0.053
131-11-3	Dimethylphthalate	ND	H *1	1.1	0.053
84-74-2	Di-n-butyl phthalate	0.67	J H B *+ *1	1.1	0.053
117-84-0	Di-n-octyl phthalate	ND	H	1.1	0.053
206-44-0	Fluoranthene	ND	H	0.053	0.011
86-73-7	Fluorene	ND	H	0.053	0.011
118-74-1	Hexachlorobenzene	ND	H	0.053	0.021
193-39-5	Indeno[1,2,3-cd]pyrene	ND	H	0.053	0.021
91-20-3	Naphthalene	ND	H	0.074	0.032
62-75-9	N-Nitrosodimethylamine	ND	H	0.053	0.021
85-01-8	Phenanthrene	ND	H	0.074	0.032
129-00-0	Pyrene	ND	H	0.053	0.011

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-106360-1

SDG No.:

Client Sample ID: FBW001_FB_112022 RE Lab Sample ID: 410-106360-4 RE

Matrix: Water Lab File ID: NL0180.D

Analysis Method: 8270D SIM Date Collected: 11/17/2022 10:14

Extract. Method: 3510C Date Extracted: 12/03/2022 03:22

Sample wt/vol: 235.9(mL) Date Analyzed: 12/05/2022 12:16

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor: Level: (low/med) Low

Analysis Batch No.: 323522 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
38072-94-5	1-Methylnaphthalene-d10 (Surr)	49		36-111
63466-71-7	Benzo(a)pyrene-d12 (Surr)	83		10-110
93951-69-0	Fluoranthene-d10 (Surr)	76		47-128

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\NL0180.D
Lims ID: 410-106360-A-4-A RE
Client ID: FBW001_FB_112022
Sample Type: Client
Inject. Date: 05-Dec-2022 12:16:30 ALS Bottle#: 21 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-106360-A-4-A
Misc. Info.: 410-0072499-021
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 05-Dec-2022 16:00:35 Calib Date: 05-Oct-2022 11:42:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0026.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1618

First Level Reviewer: SJ89 Date: 05-Dec-2022 15:57:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	4.556	4.556	0.000	100	42329	0.2500	
* 5 Naphthalene-d8	136	5.768	5.768	0.000	100	141551	0.2500	
$ 9 1-Methylnaphthalene-d10	152	6.508	6.505	0.003	98	31907	0.1225	
* 13 Acenaphthene-d10	164	7.439	7.437	0.002	98	58413	0.2500	
16 Diethyl phthalate	149	7.853	7.853	-0.005	89	1639	0.006427	
* 20 Phenanthrene-d10	188	8.849	8.854	-0.005	100	88855	0.2500	
23 Di-n-butyl phthalate	149	9.419	9.411	0.003	100	48821	0.1583	
$ 24 Fluoranthene-d10 (Surr)	212	9.983	9.981	-0.004	100	61201	0.1889	
* 29 Chrysene-d12	240	11.517	11.513	0.004	82	48629	0.2500	
31 Bis(2-ethylhexyl) phthalate	149	11.570	11.578	-0.004	98	19302	0.1756	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.357	13.358	-0.004	98	34245	0.2072	
* 38 Perylene-d12	264	13.472	13.476	-0.004	98	43052	0.2500	

QC Flag Legend

Processing Flags

Reagents:

MSS_RVSIM_IS_00032 Amount Added: 10.00 Units: uL Run Reagent

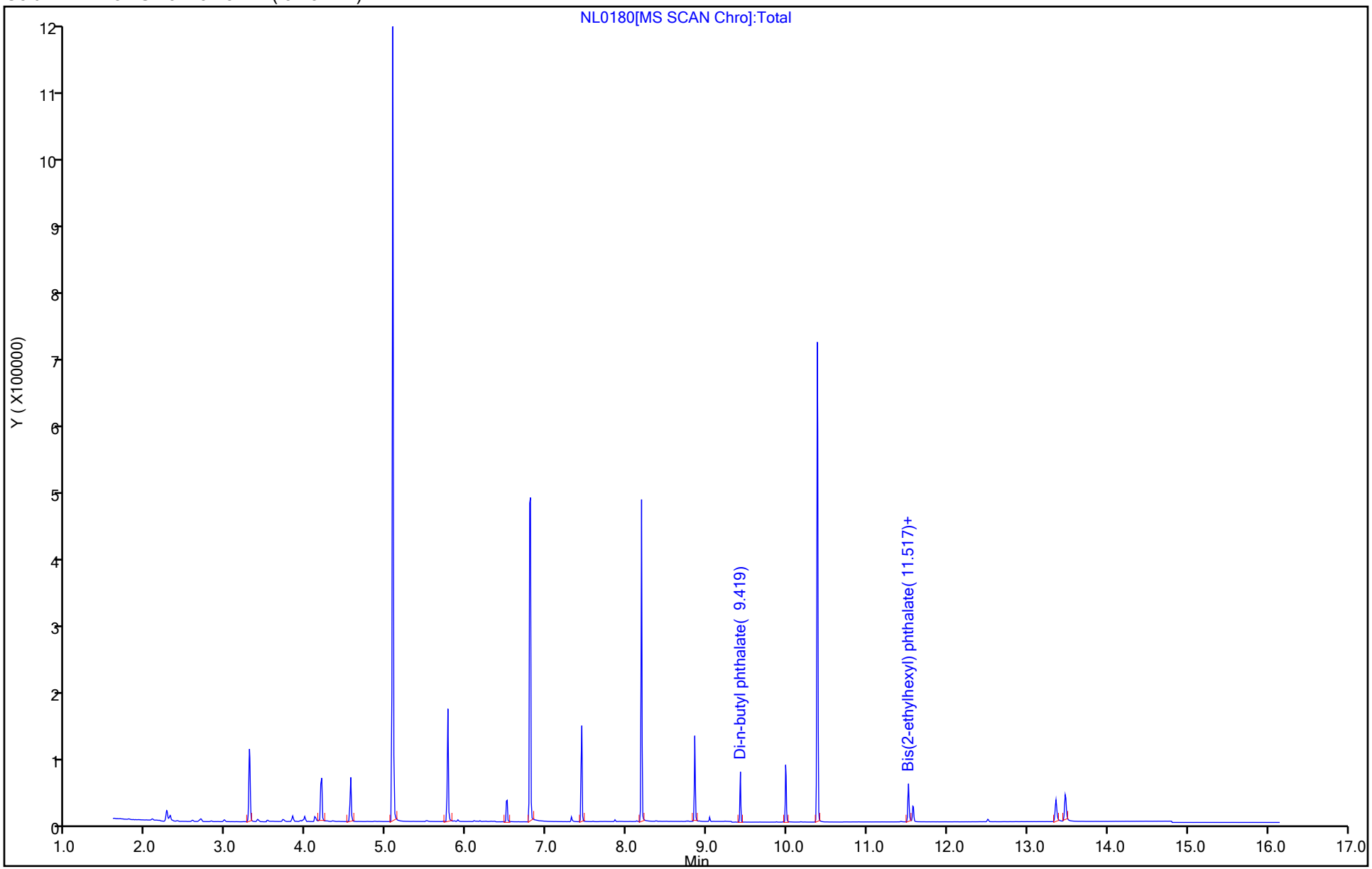
Report Date: 05-Dec-2022 16:00:43 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\NL0180.D

Injection Date:	05-Dec-2022 12:16:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	410-106360-A-4-A RE	Lab Sample ID:	410-106360-4	Worklist Smp#:	21
Client ID:	FBW001_FB_112022				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\NL0180.D
Lims ID: 410-106360-A-4-A RE
Client ID: FBW001_FB_112022
Sample Type: Client
Inject. Date: 05-Dec-2022 12:16:30 ALS Bottle#: 21 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-106360-A-4-A
Misc. Info.: 410-0072499-021
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 05-Dec-2022 16:00:35 Calib Date: 05-Oct-2022 11:42:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0026.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1618

First Level Reviewer: SJ89 Date: 05-Dec-2022 15:57:28

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1-Methylnaphthalene-d10	0.2500	0.1225	49.02
$ 24 Fluoranthene-d10 (Surr)	0.2500	0.1889	75.58
$ 36 Benzo(a)pyrene-d12 (Surr)	0.2500	0.2072	82.87

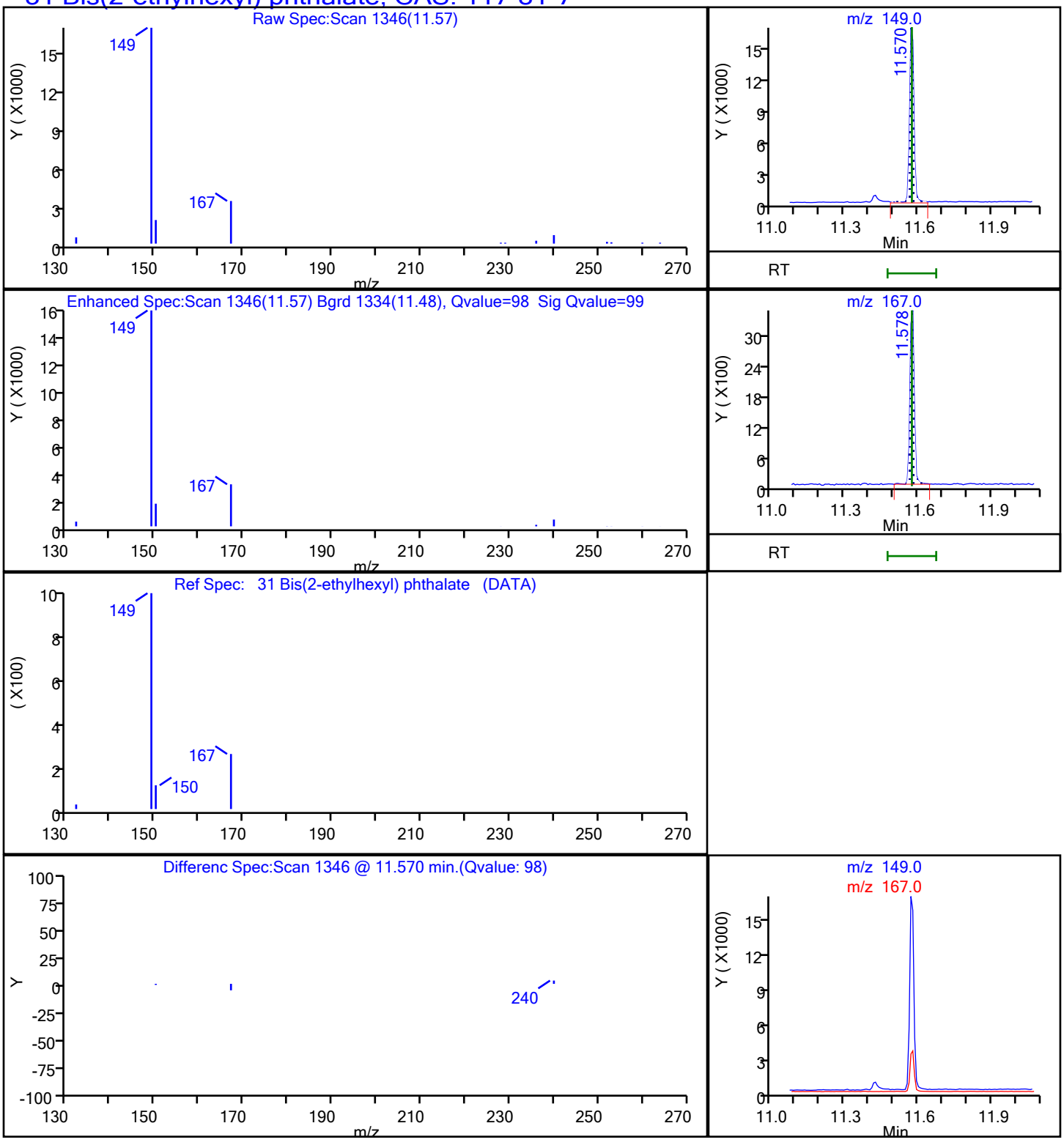
Report Date: 05-Dec-2022 16:00:43 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\NL0180.D

Injection Date:	05-Dec-2022 12:16:30	Instrument ID:	HP23263		
Lims ID:	410-106360-A-4-A RE	Lab Sample ID:	410-106360-4		
Client ID:	FBW001_FB_112022				
Operator ID:	jmg00346	ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

31 Bis(2-ethylhexyl) phthalate, CAS: 117-81-7

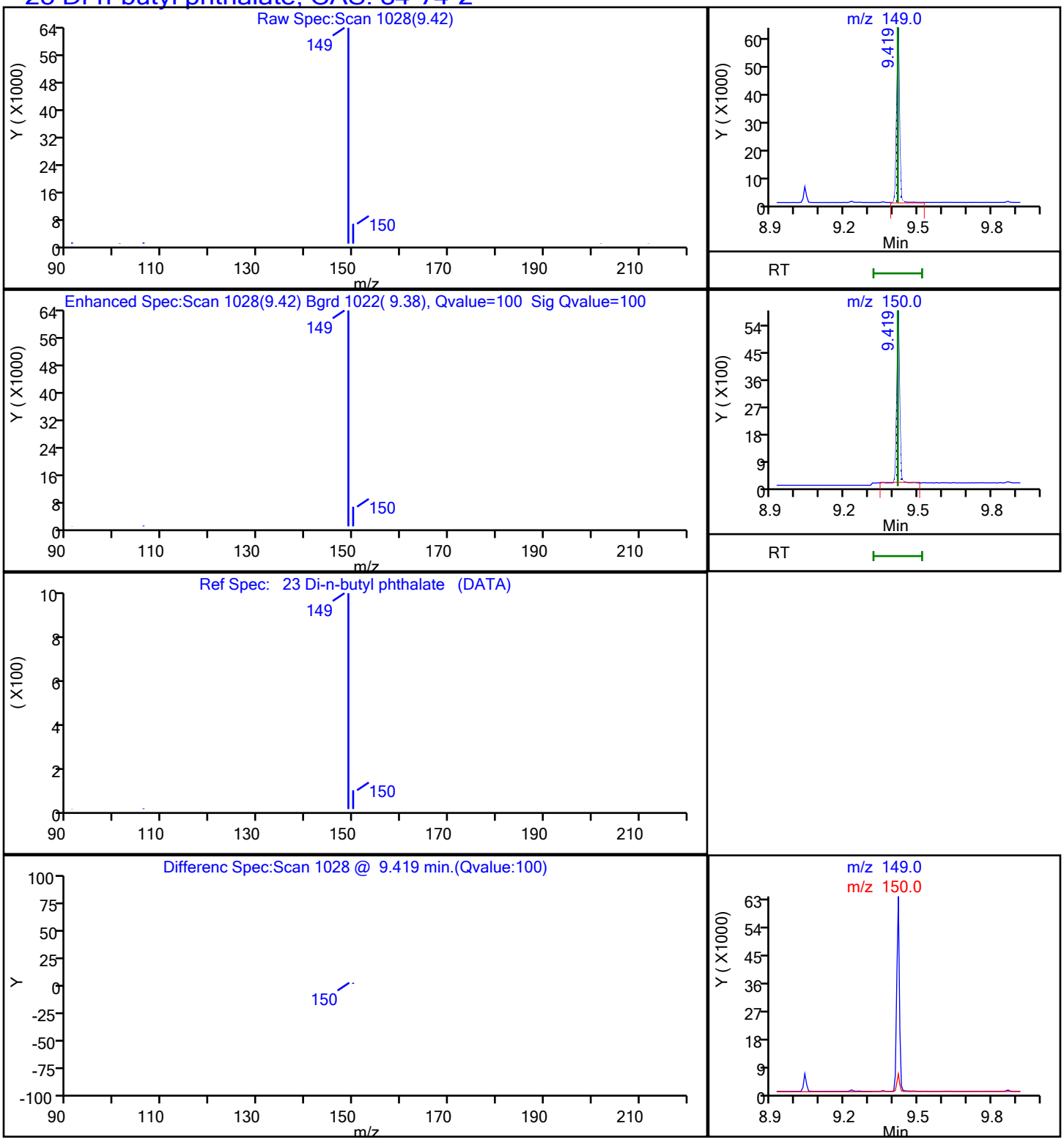


Report Date: 05-Dec-2022 16:00:43 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\NL0180.D				
Injection Date:	05-Dec-2022 12:16:30	Instrument ID:	HP23263		
Lims ID:	410-106360-A-4-A RE	Lab Sample ID:	410-106360-4		
Client ID:	FBW001_FB_112022				
Operator ID:	jmg00346	ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

23 Di-n-butyl phthalate, CAS: 84-74-2



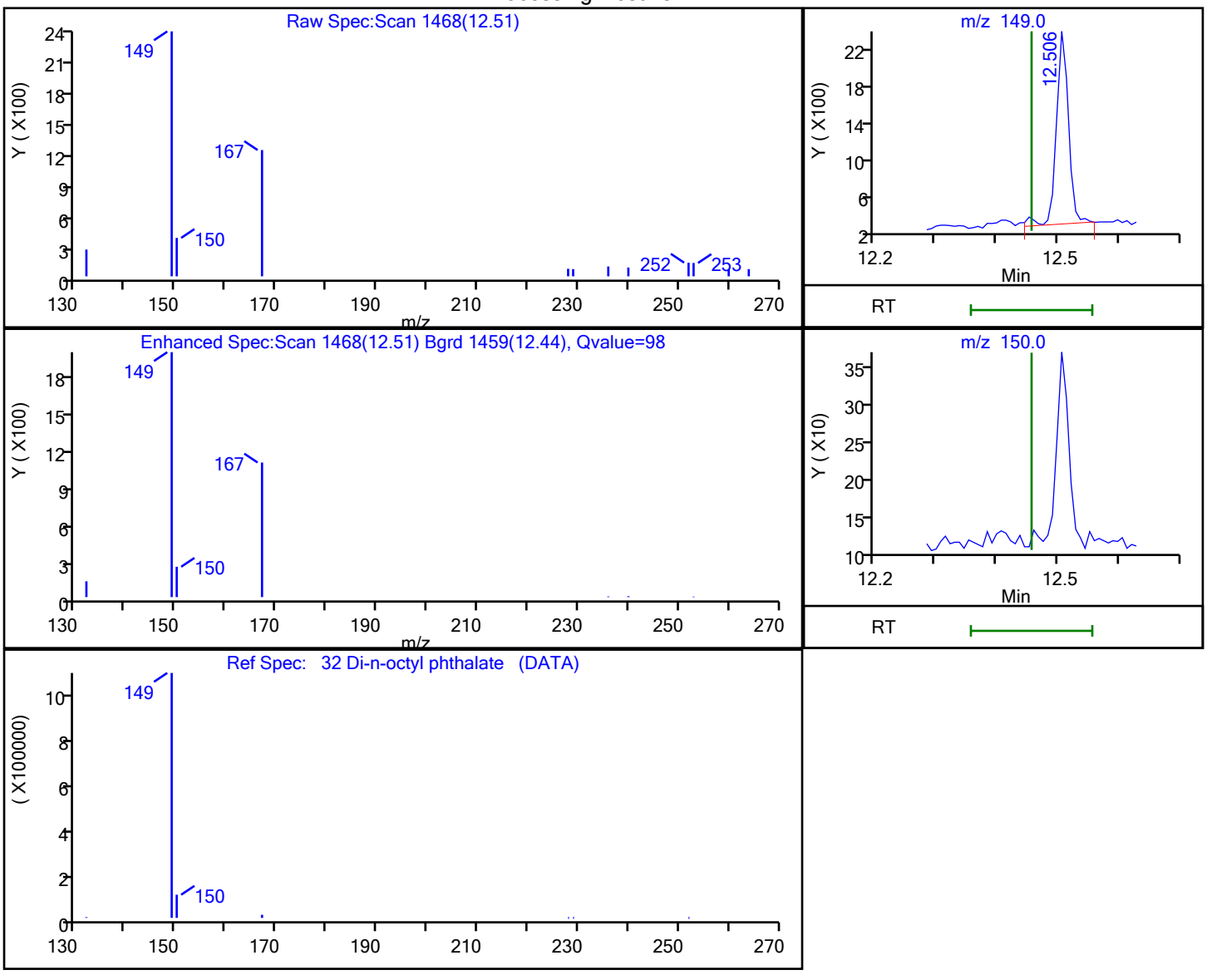
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\NL0180.D				
Injection Date:	05-Dec-2022 12:16:30	Instrument ID:	HP23263		
Lims ID:	410-106360-A-4-A RE	Lab Sample ID:	410-106360-4		
Client ID:	FBW001_FB_112022				
Operator ID:	jmg00346	ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

32 Di-n-octyl phthalate, CAS: 117-84-0

Processing Results



RT	Mass	Response	Amount
12.51	149.00	2740	0.016040
12.46	150.00	0	

Reviewer: SJ89, 05-Dec-2022 15:57:21

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1 Analy Batch No.: 280637

SDG No.:

Instrument ID: HP21585 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/28/2022 19:23 Calibration End Date: 07/28/2022 21:32 Calibration ID: 41344

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-280637/7	MG1356.D
Level 2	IC 410-280637/6	MG1355.D
Level 3	IC 410-280637/5	MG1354.D
Level 4	ICIS 410-280637/2	MG1351b.D
Level 5	IC 410-280637/4	MG1353.D
Level 6	IC 410-280637/3	MG1352.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,4-Dioxane	0.7175 0.7237	0.6749	0.6963	0.7081	0.6981	Ave		0.7031				2.5		20.4			
N-Nitrosodimethylamine	0.7974 0.8944	0.8343	0.8685	0.8868	0.8819	Ave		0.8605				4.4		20.4			
Bis(2-chloroethyl)ether	0.4645 0.4170	0.4318	0.4487	0.4345	0.4281	Ave		0.4374				3.8		20.4			
Naphthalene	1.3329 1.1789	1.2558	1.2724	1.2442	1.2134	Ave		1.2496				4.2		20.4			
Quinoline	0.7337 0.7393	0.7061	0.7430	0.7495	0.7386	Ave		0.7350				2.1		20.4			
2-Methylnaphthalene	0.8294 0.7287	0.7723	0.7795	0.7663	0.7411	Ave		0.7695				4.6		20.4			
1-Methylnaphthalene	0.7613 0.6912	0.7162	0.7298	0.7159	0.6973	Ave		0.7186				3.5		20.4			
Dimethylphthalate	1.0724 1.2388	1.3004	1.2890	1.3070	1.2541	Ave		1.2436				7.1		20.4			
Acenaphthylene	2.0606 2.1198	1.9343	1.9731	2.0304	1.9974	Ave		2.0193				3.3		20.4			
Acenaphthene	1.3005 1.2884	1.2228	1.2276	1.2645	1.2155	Ave		1.2532				2.9		20.4			
Dibenzofuran	2.0238 1.8952	1.9051	1.9100	1.8838	1.8016	Ave		1.9032				3.7		20.4			
Diethylphthalate	0.9761 1.2203	1.2164	1.2244	1.2604	1.2490	Ave		1.1911				9.0		20.4			
Fluorene	1.5252 1.4961	1.4397	1.4586	1.4753	1.4479	Ave		1.4738				2.2		20.4			
N-Nitrosodiphenylamine	0.5247 0.4402	0.4964	0.4988	0.4942	0.4692	Ave		0.4872				6.0		20.4			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1 Analy Batch No.: 280637

SDG No.:

Instrument ID: HP21585 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/28/2022 19:23 Calibration End Date: 07/28/2022 21:32 Calibration ID: 41344

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Hexachlorobenzene	0.2556 0.2325	0.2329	0.2370	0.2350	0.2266	Ave		0.2366				4.2		20.4			
Phenanthrene	1.2918 1.1750	1.1932	1.1887	1.1901	1.1552	Ave		1.1990				4.0		20.4			
Anthracene	1.1346 1.1591	1.0663	1.1012	1.1371	1.1112	Ave		1.1183				2.9		20.4			
Di-n-butyl phthalate	0.6558 0.8876	0.8927	0.9623	1.0282	1.0849	Ave		0.9186				16.3		20.4			
Fluoranthene	1.3486 1.3384	1.2629	1.2791	1.2874	1.2766	Ave		1.2988				2.7		20.4			
Pyrene	1.8780 1.5800	1.6271	1.6272	1.5918	1.5139	Ave		1.6363				7.7		20.4			
Butylbenzylphthalate	0.2178 0.5059	0.2881	0.3294	0.3975	0.4494	Qua2	-0.012	0.3311	0.0191872						0.9970		0.9900
Benzo[a]anthracene	1.3787 1.3782	1.2615	1.2711	1.3017	1.2749	Ave		1.3110				4.1		20.4			
Chrysene	1.5822 1.4299	1.4788	1.4769	1.4561	1.3672	Ave		1.4652				4.8		20.4			
Bis(2-ethylhexyl) phthalate	0.3307 0.7479	0.4330	0.5049	0.5964	0.6723	Qua2	-0.018	0.5036	0.0270059						0.9970		0.9900
Di-n-octyl phthalate	0.5120 1.1675	0.6947	0.8122	0.9926	1.0959	Qua2	-0.034	0.8350	0.0385214						0.9950		0.9900
Benzo[b]fluoranthene	1.5361 1.3312	1.3490	1.3393	1.3498	1.2431	Ave		1.3581				7.1		20.4			
Benzo[k]fluoranthene	1.5267 1.3615	1.4375	1.4679	1.4877	1.4151	Ave		1.4494				4.0		20.4			
Benzo[e]pyrene	1.4246 1.2450	1.3171	1.3243	1.3204	1.2289	Ave		1.3101				5.3		20.4			
Benzo[a]pyrene	1.1933 1.2724	1.1804	1.2400	1.3066	1.2387	Ave		1.2386				3.8		20.4			
Perylene	1.5566 1.2391	1.4021	1.3916	1.3134	1.2289	Ave		1.3553				9.1		20.4			
Indeno[1,2,3-cd]pyrene	1.0517 1.1015	1.0039	1.0235	1.0988	1.0369	Ave		1.0527				3.8		20.4			
Dibenz(a,h)anthracene	1.1634 1.2724	1.1753	1.2204	1.2833	1.2194	Ave		1.2224				4.0		20.4			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1 Analy Batch No.: 280637

SDG No.:

Instrument ID: HP21585 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/28/2022 19:23 Calibration End Date: 07/28/2022 21:32 Calibration ID: 41344

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[g,h,i]perylene	1.4057 1.3314	1.3398	1.3469	1.3803	1.2923	Ave		1.3494				2.9		20.4			
1-Methylnaphthalene-d10 (Surr)	0.6031 0.5442	0.5718	0.5859	0.5637	0.5593	Ave		0.5713				3.6		20.4			
Fluoranthene-d10 (Surr)	1.0408 1.0820	1.0338	1.0519	1.0661	1.0451	Ave		1.0533				1.7		20.4			
Benzo(a)pyrene-d12 (Surr)	0.9113 0.9517	0.8866	0.9072	0.9692	0.9191	Ave		0.9242				3.3		20.4			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1 Analy Batch No.: 280637

SDG No.:

Instrument ID: HP21585 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/28/2022 19:23 Calibration End Date: 07/28/2022 21:32 Calibration ID: 41344

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-280637/7	MG1356.D
Level 2	IC 410-280637/6	MG1355.D
Level 3	IC 410-280637/5	MG1354.D
Level 4	ICIS 410-280637/2	MG1351b.D
Level 5	IC 410-280637/4	MG1353.D
Level 6	IC 410-280637/3	MG1352.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,4-Dioxane	DCBd 4	Ave	1931 488191	9114	19203	88827	189515	0.0100 2.50	0.0500	0.100	0.500	1.00
N-Nitrosodimethylamine	DCBd 4	Ave	2146 603342	11267	23951	111236	239413	0.0100 2.50	0.0500	0.100	0.500	1.00
Bis(2-chloroethyl)ether	NPT	Ave	4321 1027207	20001	42014	193212	413146	0.0100 2.50	0.0500	0.100	0.500	1.00
Naphthalene	NPT	Ave	12399 2903614	58176	119127	553325	1171026	0.0100 2.50	0.0500	0.100	0.500	1.00
Quinoline	NPT	Ave	6825 1820992	32709	69566	333312	712826	0.0100 2.50	0.0500	0.100	0.500	1.00
2-Methylnaphthalene	NPT	Ave	7716 1794850	35775	72981	340776	715223	0.0100 2.50	0.0500	0.100	0.500	1.00
1-Methylnaphthalene	NPT	Ave	7082 1702542	33179	68332	318363	673002	0.0100 2.50	0.0500	0.100	0.500	1.00
Dimethylphthalate	ANT	Ave	53864 6533175	333649	678708	1573185	3389431	0.100 10.0	0.500	1.00	2.50	5.00
Acenaphthylene	ANT	Ave	10350 2794969	49630	103887	488778	1079685	0.0100 2.50	0.0500	0.100	0.500	1.00
Acenaphthene	ANT	Ave	6532 1698711	31375	64637	304394	657042	0.0100 2.50	0.0500	0.100	0.500	1.00
Dibenzofuran	ANT	Ave	10165 2498864	48881	100563	453482	973851	0.0100 2.50	0.0500	0.100	0.500	1.00
Diethylphthalate	ANT	Ave	49027 6436033	312109	644688	1517029	3375774	0.100 10.0	0.500	1.00	2.50	5.00
Fluorene	ANT	Ave	7661	36941	76800	355145	782668	0.0100	0.0500	0.100	0.500	1.00

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1 Analy Batch No.: 280637

SDG No.:

Instrument ID: HP21585 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/28/2022 19:23 Calibration End Date: 07/28/2022 21:32 Calibration ID: 41344

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
			1972532					2.50				
N-Nitrosodiphenylamine	PHN	Ave	4674 1041584	22915	46661	215520	452010	0.0100 2.50	0.0500	0.100	0.500	1.00
Hexachlorobenzene	PHN	Ave	2277 550156	10753	22170	102474	218247	0.0100 2.50	0.0500	0.100	0.500	1.00
Phenanthrene	PHN	Ave	11507 2780263	55080	111208	519003	1112794	0.0100 2.50	0.0500	0.100	0.500	1.00
Anthracene	PHN	Ave	10107 2742706	49225	103024	495927	1070418	0.0100 2.50	0.0500	0.100	0.500	1.00
Di-n-butyl phthalate	PHN	Ave	58417 8400785	412109	900251	2242033	5225245	0.100 10.0	0.500	1.00	2.50	5.00
Fluoranthene	PHN	Ave	12013 3166970	58300	119669	561442	1229710	0.0100 2.50	0.0500	0.100	0.500	1.00
Pyrene	CRY	Ave	12873 3289701	59951	124918	593420	1300828	0.0100 2.50	0.0500	0.100	0.500	1.00
Butylbenzylphthalate	CRY	Qua2	14927 4213255	106162	252875	740881	1930554	0.100 10.0	0.500	1.00	2.50	5.00
Benzo[a]anthracene	CRY	Ave	9451 2869441	46481	97577	485280	1095452	0.0100 2.50	0.0500	0.100	0.500	1.00
Chrysene	CRY	Ave	10846 2977214	54485	113375	542822	1174785	0.0100 2.50	0.0500	0.100	0.500	1.00
Bis(2-ethylhexyl) phthalate	CRY	Qua2	22671 6228995	159534	387631	1111580	2888456	0.100 10.0	0.500	1.00	2.50	5.00
Di-n-octyl phthalate	PRY	Qua2	31589 10464592	235365	590702	1816476	4810424	0.100 10.0	0.500	1.00	2.50	5.00
Benzo[b]fluoranthene	PRY	Ave	9478 2982935	45705	97412	494045	1091346	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo[k]fluoranthene	PRY	Ave	9420 3050799	48703	106763	544528	1242338	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo[e]pyrene	PRY	Ave	8790 2789894	44622	96322	483280	1078812	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo[a]pyrene	PRY	Ave	7363 2851256	39990	90188	478234	1087461	0.0100 2.50	0.0500	0.100	0.500	1.00
Perylene	PRY	Ave	9604 2776696	47503	101214	480715	1078830	0.0100 2.50	0.0500	0.100	0.500	1.00
Indeno[1,2,3-cd]pyrene	PRY	Ave	6489	34012	74444	402187	910318	0.0100	0.0500	0.100	0.500	1.00

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1 Analy Batch No.: 280637

SDG No.:

Instrument ID: HP21585 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/28/2022 19:23 Calibration End Date: 07/28/2022 21:32 Calibration ID: 41344

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
			2468221					2.50				
Dibenz(a,h)anthracene	PRY	Ave	7178 2851136	39820	88760	469706	1070523	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo[g,h,i]perylene	PRY	Ave	8673 2983498	45391	97965	505200	1134481	0.0100 2.50	0.0500	0.100	0.500	1.00
1-Methylnaphthalene-d10 (Surr)	NPT	Ave	5610 1340376	26487	54858	250669	539784	0.0100 2.50	0.0500	0.100	0.500	1.00
Fluoranthene-d10 (Surr)	PHN	Ave	9271 2560230	47722	98410	464925	1006759	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo(a)pyrene-d12 (Surr)	PRY	Ave	5623 2132701	30039	65981	354734	806881	0.0100 2.50	0.0500	0.100	0.500	1.00

Curve Type Legend

Ave = Average ISTD
Qua2 = Quadratic 1/conc^2 ISTD

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1 Analy Batch No.: 280637

SDG No.:

Instrument ID: HP21585 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/28/2022 19:23 Calibration End Date: 07/28/2022 21:32 Calibration ID: 41344

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-280637/7	MG1356.D
Level 2	IC 410-280637/6	MG1355.D
Level 3	IC 410-280637/5	MG1354.D
Level 4	ICIS 410-280637/2	MG1351b.D
Level 5	IC 410-280637/4	MG1353.D
Level 6	IC 410-280637/3	MG1352.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
Butylbenzylphthalate	1.6	-8.1	-2.4	5.4	4.7	-2.2	50	30	30	30	30	30
Bis(2-ethylhexyl) phthalate	1.6	-8.9	-1.3	5.1	4.8	-2.3	50	30	30	30	30	30
Di-n-octyl phthalate	2.0	-10.4	-3.0	7.3	6.1	-3.1	50	30	30	30	30	30

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220728-62933.b\MG1351b.D
Lims ID: ICIS L4
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 28-Jul-2022 19:23:20 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICIS L4
Misc. Info.: 410-0062933-002, 4
Operator ID: kel10217 Instrument ID: HP21585
Sublist: chrom-8270_SIM_HP21585*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20220728-62933.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 29-Jul-2022 11:57:48 Calib Date: 28-Jul-2022 21:32:00
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20220728-62933.b\MG1356.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1671

First Level Reviewer: SJ89 Date: 28-Jul-2022 20:05:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.846	1.846	0.000	89	88827	0.5000	0.5036	M
2 N-Nitrosodimethylamine	74	2.126	2.126	0.000	90	111236	0.5000	0.5152	
3 Bis(2-chloroethyl)ether	93	4.305	4.305	0.000	78	193212	0.5000	0.4966	
* 4 1,4-Dichlorobenzene-d4	152	4.567	4.567	0.000	92	62721	0.2500	0.2500	
* 5 Naphthalene-d8	136	5.755	5.755	0.000	91	222361	0.2500	0.2500	
6 Naphthalene	128	5.780	5.780	0.000	94	553325	0.5000	0.4978	
7 Quinoline	129	6.092	6.092	0.000	96	333312	0.5000	0.5098	
8 2-Methylnaphthalene	142	6.427	6.427	0.000	99	340776	0.5000	0.4979	
$ 9 1-Methylnaphthalene-d10	152	6.486	6.486	0.000	99	250669	0.5000	0.4933	
10 1-Methylnaphthalene	142	6.525	6.525	0.000	96	318363	0.5000	0.4981	
11 Dimethyl phthalate	163	7.165	7.165	0.000	75	1573185	2.50	2.63	
12 Acenaphthylene	152	7.284	7.284	0.000	99	488778	0.5000	0.5028	
* 13 Acenaphthene-d10	164	7.421	7.421	0.000	86	120364	0.2500	0.2500	
14 Acenaphthene	154	7.451	7.451	0.000	86	304394	0.5000	0.5045	
15 Dibenzofuran	168	7.618	7.618	0.000	83	453482	0.5000	0.4949	
16 Diethyl phthalate	149	7.832	7.832	0.000	100	1517029	2.50	2.65	
17 Fluorene	166	7.933	7.933	0.000	100	355145	0.5000	0.5005	
18 N-Nitrosodiphenylamine	169	8.050	8.050	0.000	99	215520	0.5000	0.5071	
19 Hexachlorobenzene	284	8.456	8.456	0.000	94	102474	0.5000	0.4966	
* 20 Phenanthrene-d10	188	8.831	8.831	0.000	95	218059	0.2500	0.2500	
21 Phenanthrene	178	8.847	8.847	0.000	100	519003	0.5000	0.4963	
22 Anthracene	178	8.901	8.901	0.000	100	495927	0.5000	0.5084	
23 Di-n-butyl phthalate	149	9.395	9.395	0.000	100	2242033	2.50	2.80	
$ 24 Fluoranthene-d10 (Surr)	212	9.965	9.965	0.000	99	464925	0.5000	0.5061	
25 Fluoranthene	202	9.984	9.984	0.000	100	561442	0.5000	0.4956	
26 Pyrene	202	10.204	10.204	0.000	100	593420	0.5000	0.4864	
27 Butyl benzyl phthalate	149	10.882	10.882	0.000	100	740881	2.50	2.64	
28 Benzo[a]anthracene	228	11.496	11.496	0.000	100	485280	0.5000	0.4965	
* 29 Chrysene-d12	240	11.503	11.503	0.000	89	186396	0.2500	0.2500	
30 Chrysene	228	11.534	11.534	0.000	100	542822	0.5000	0.4969	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	11.572	11.572	0.000	100	1111580	2.50	2.63	
32 Di-n-octyl phthalate	149	12.454	12.454	0.000	100	1816476	2.50	2.68	
33 Benzo[b]fluoranthene	252	12.922	12.922	0.000	100	494045	0.5000	0.4969	
34 Benzo[k]fluoranthene	252	12.960	12.960	0.000	100	544528	0.5000	0.5132	
35 Benzo[e]pyrene	252	13.306	13.306	0.000	100	483280	0.5000	0.5039	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.352	13.352	0.000	100	354734	0.5000	0.5243	
37 Benzo[a]pyrene	252	13.382	13.382	0.000	100	478234	0.5000	0.5275	
* 38 Perylene-d12	264	13.467	13.467	0.000	99	183007	0.2500	0.2500	
39 Perylene	252	13.505	13.505	0.000	100	480715	0.5000	0.4845	
40 Indeno[1,2,3-cd]pyrene	276	15.110	15.110	0.000	99	402187	0.5000	0.5219	M
41 Dibenz(a,h)anthracene	278	15.167	15.167	0.000	97	469706	0.5000	0.5249	
42 Benzo[g,h,i]perylene	276	15.576	15.576	0.000	99	505200	0.5000	0.5114	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_4_00024 Amount Added: 1.00 Units: mL

Report Date: 29-Jul-2022 11:57:50 Chrom Revision: 2.3 19-Jul-2022 21:48:42

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220728-62933.b\MG1351b.D

Injection Date: 28-Jul-2022 19:23:20 Instrument ID: HP21585 Operator ID: kel10217

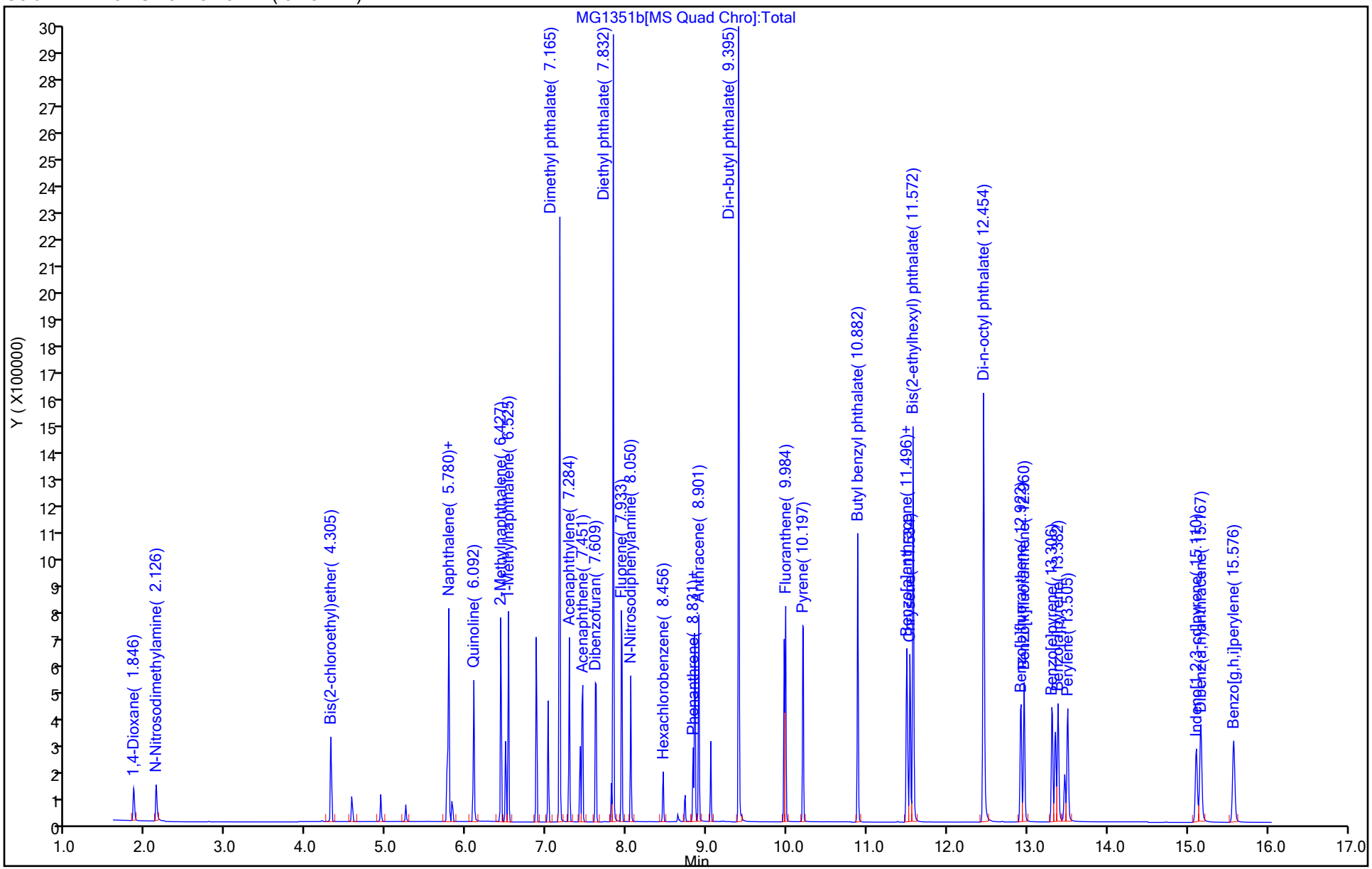
Lims ID: ICIS L4 Worklist Smp#: 2

Client ID:

Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 0

Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

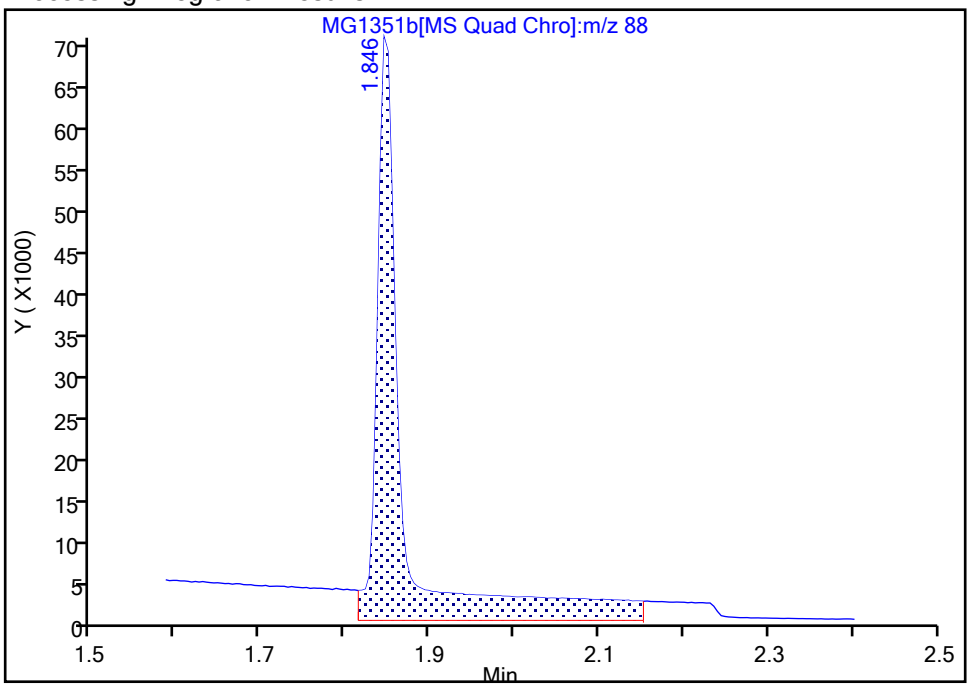
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20220728-62933.b\MG1351b.D				
Injection Date:	28-Jul-2022 19:23:20	Instrument ID:	HP21585		
Lims ID:	ICIS L4				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

1 1,4-Dioxane, CAS: 123-91-1

Signal: 1

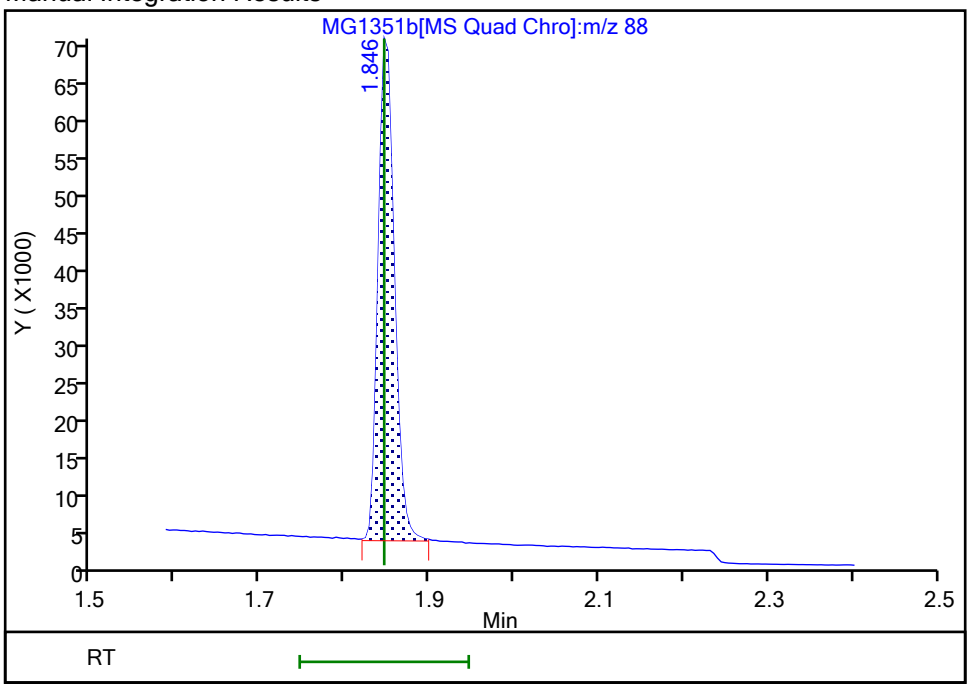
Processing Integration Results

RT: 1.85
Area: 148198
Amount: 0.165070
Amount Units: ug/ml



Manual Integration Results

RT: 1.85
Area: 88827
Amount: 0.503573
Amount Units: ug/ml



Reviewer: UJM0, 29-Jul-2022 06:35:18
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

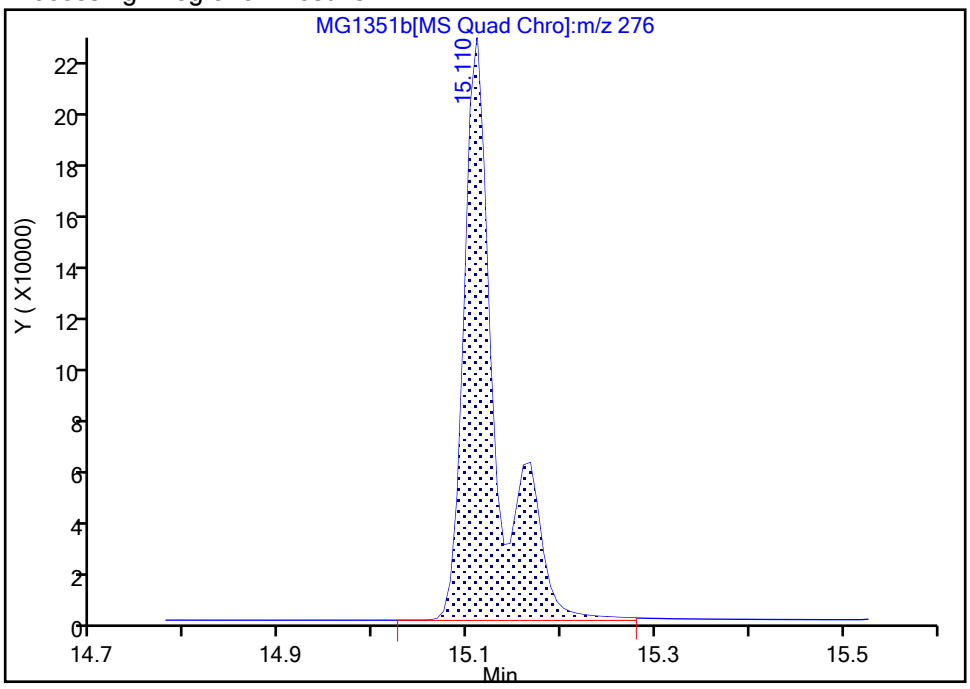
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20220728-62933.b\MG1351b.D				
Injection Date:	28-Jul-2022 19:23:20	Instrument ID:	HP21585		
Lims ID:	ICIS L4				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

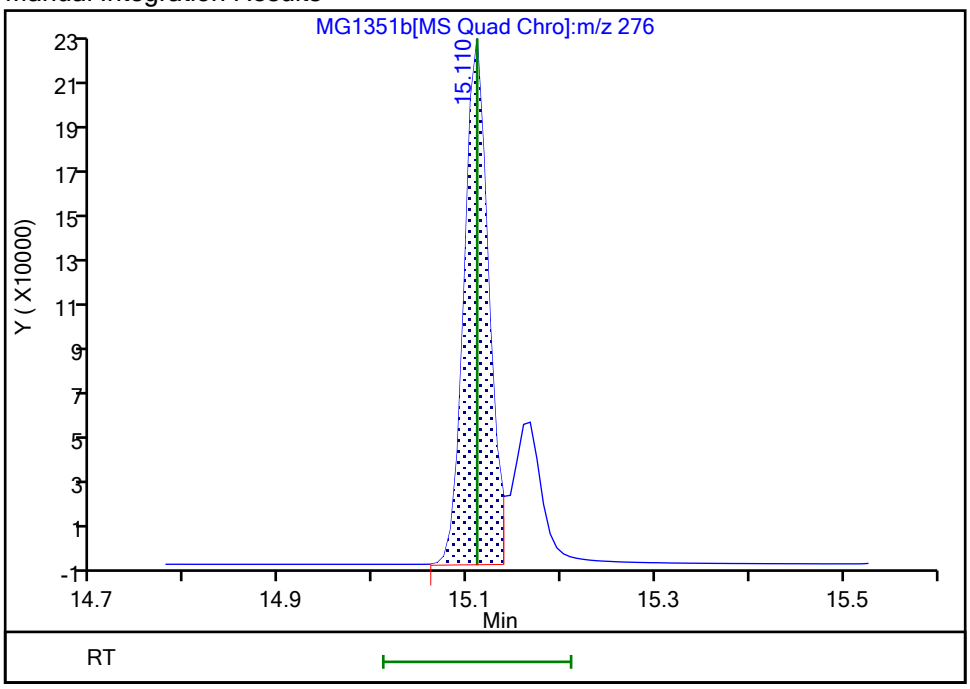
Processing Integration Results

RT: 15.11
Area: 538439
Amount: 0.509282
Amount Units: ug/ml



Manual Integration Results

RT: 15.11
Area: 402187
Amount: 0.521895
Amount Units: ug/ml



Reviewer: UJM0, 29-Jul-2022 06:35:52

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220728-62933.b\MG1352.D
Lims ID: IC L6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 28-Jul-2022 20:06:21 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L6
Misc. Info.: 410-0062933-003
Operator ID: kel10217 Instrument ID: HP21585
Sublist: chrom-8270_SIM_HP21585*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20220728-62933.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 29-Jul-2022 11:57:54 Calib Date: 28-Jul-2022 21:32:00
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20220728-62933.b\MG1356.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1671

First Level Reviewer: UWHS Date: 29-Jul-2022 11:57:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.841	1.846	-0.005	89	488191	2.50	2.57	
2 N-Nitrosodimethylamine	74	2.122	2.126	-0.004	91	603342	2.50	2.60	
3 Bis(2-chloroethyl)ether	93	4.305	4.305	0.000	78	1027207	2.50	2.38	
* 4 1,4-Dichlorobenzene-d4	152	4.567	4.567	0.000	87	67460	0.2500	0.2500	
* 5 Naphthalene-d8	136	5.755	5.755	-0.001	91	246308	0.2500	0.2500	
6 Naphthalene	128	5.780	5.780	0.000	94	2903614	2.50	2.36	
7 Quinoline	129	6.092	6.092	0.000	93	1820992	2.50	2.51	
8 2-Methylnaphthalene	142	6.427	6.427	0.000	99	1794850	2.50	2.37	
$ 9 1-Methylnaphthalene-d10	152	6.496	6.486	0.010	96	1340376	2.50	2.38	
10 1-Methylnaphthalene	142	6.525	6.525	0.000	96	1702542	2.50	2.40	
11 Dimethyl phthalate	163	7.165	7.165	0.000	75	6533175	10.0	9.96	
12 Acenaphthylene	152	7.284	7.284	0.000	99	2794969	2.50	2.62	
* 13 Acenaphthene-d10	164	7.421	7.421	0.000	86	131849	0.2500	0.2500	
14 Acenaphthene	154	7.451	7.451	0.000	86	1698711	2.50	2.57	
15 Dibenzofuran	168	7.618	7.618	0.000	83	2498864	2.50	2.49	
16 Diethyl phthalate	149	7.832	7.832	0.000	100	6436033	10.0	10.2	
17 Fluorene	166	7.941	7.933	0.008	98	1972532	2.50	2.54	
18 N-Nitrosodiphenylamine	169	8.050	8.050	0.000	99	1041584	2.50	2.26	
19 Hexachlorobenzene	284	8.456	8.456	0.000	100	550156	2.50	2.46	
* 20 Phenanthrene-d10	188	8.831	8.831	0.000	95	236628	0.2500	0.2500	
21 Phenanthrene	178	8.854	8.847	0.007	100	2780263	2.50	2.45	
22 Anthracene	178	8.901	8.901	0.000	100	2742706	2.50	2.59	
23 Di-n-butyl phthalate	149	9.401	9.395	0.006	100	8400785	10.0	9.66	
$ 24 Fluoranthene-d10 (Surr)	212	9.965	9.965	0.000	100	2560230	2.50	2.57	
25 Fluoranthene	202	9.984	9.984	0.000	100	3166970	2.50	2.58	
26 Pyrene	202	10.204	10.204	0.000	100	3289701	2.50	2.41	
27 Butyl benzyl phthalate	149	10.882	10.882	0.000	100	4213255	10.0	9.78	
28 Benzo[a]anthracene	228	11.496	11.496	0.000	100	2869441	2.50	2.63	
* 29 Chrysene-d12	240	11.511	11.503	0.008	92	208205	0.2500	0.2500	
30 Chrysene	228	11.542	11.534	0.008	100	2977214	2.50	2.44	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	11.572	11.572	0.000	100	6228995	10.0	9.77	
32 Di-n-octyl phthalate	149	12.454	12.454	0.000	100	10464592	10.0	9.69	
33 Benzo[b]fluoranthene	252	12.922	12.922	0.000	100	2982935	2.50	2.45	
34 Benzo[k]fluoranthene	252	12.960	12.960	0.000	100	3050799	2.50	2.35	
35 Benzo[e]pyrene	252	13.313	13.306	0.007	100	2789894	2.50	2.38	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.359	13.352	0.007	100	2132701	2.50	2.57	
37 Benzo[a]pyrene	252	13.390	13.382	0.008	100	2851256	2.50	2.57	
* 38 Perylene-d12	264	13.467	13.467	0.000	100	224084	0.2500	0.2500	
39 Perylene	252	13.505	13.505	0.000	100	2776696	2.50	2.29	
40 Indeno[1,2,3-cd]pyrene	276	15.117	15.110	0.007	100	2468221	2.50	2.62	M
41 Dibenz(a,h)anthracene	278	15.174	15.167	0.007	98	2851136	2.50	2.60	
42 Benzo[g,h,i]perylene	276	15.583	15.576	0.007	99	2983498	2.50	2.47	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_6_00015 Amount Added: 1.00 Units: mL

Report Date: 29-Jul-2022 11:57:55 Chrom Revision: 2.3 19-Jul-2022 21:48:42

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220728-62933.b\MG1352.D

Injection Date: 28-Jul-2022 20:06:21 Instrument ID: HP21585 Operator ID: kel10217

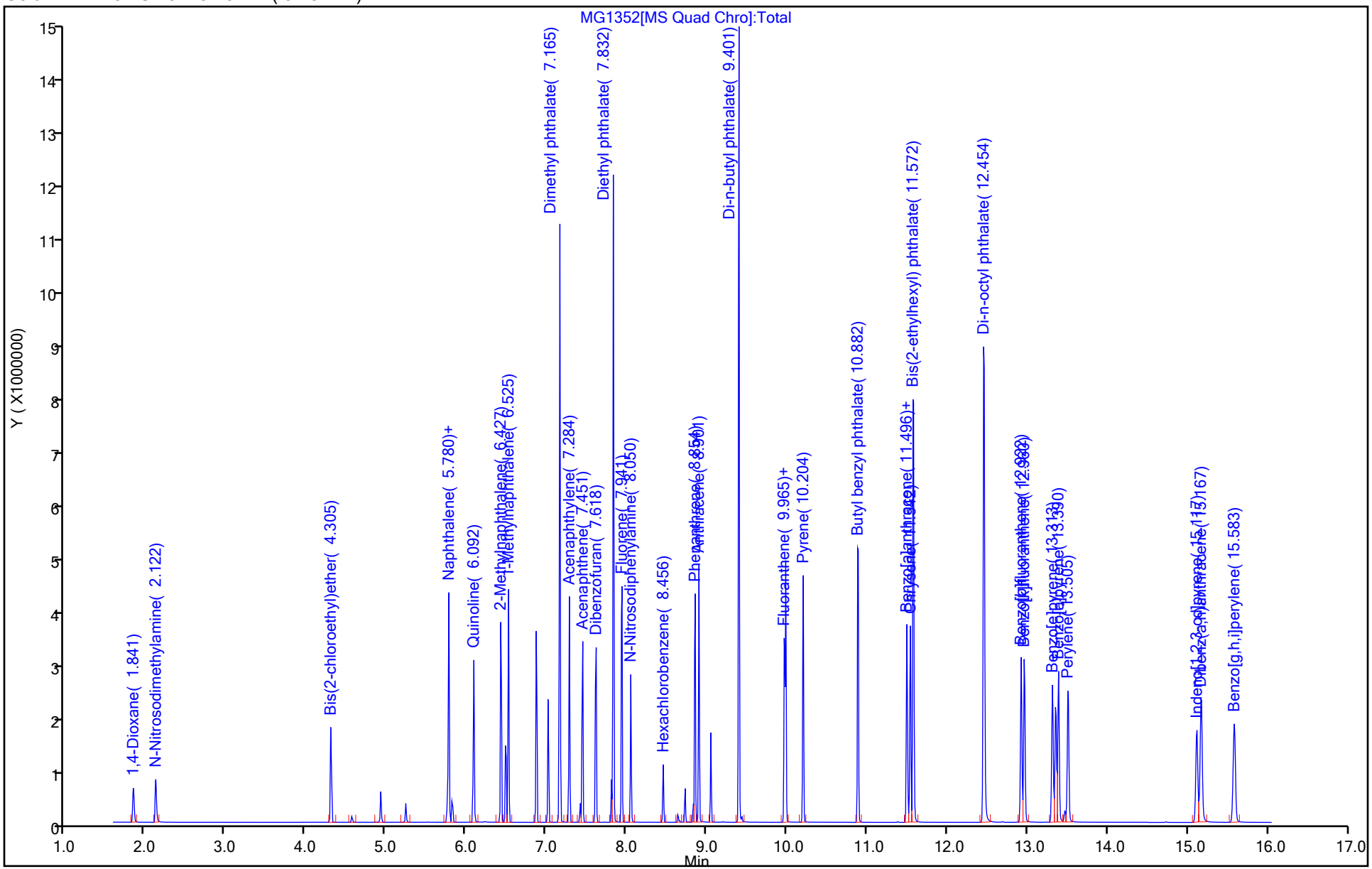
Lims ID: IC L6 Worklist Smp#: 3

Client ID:

Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 0

Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

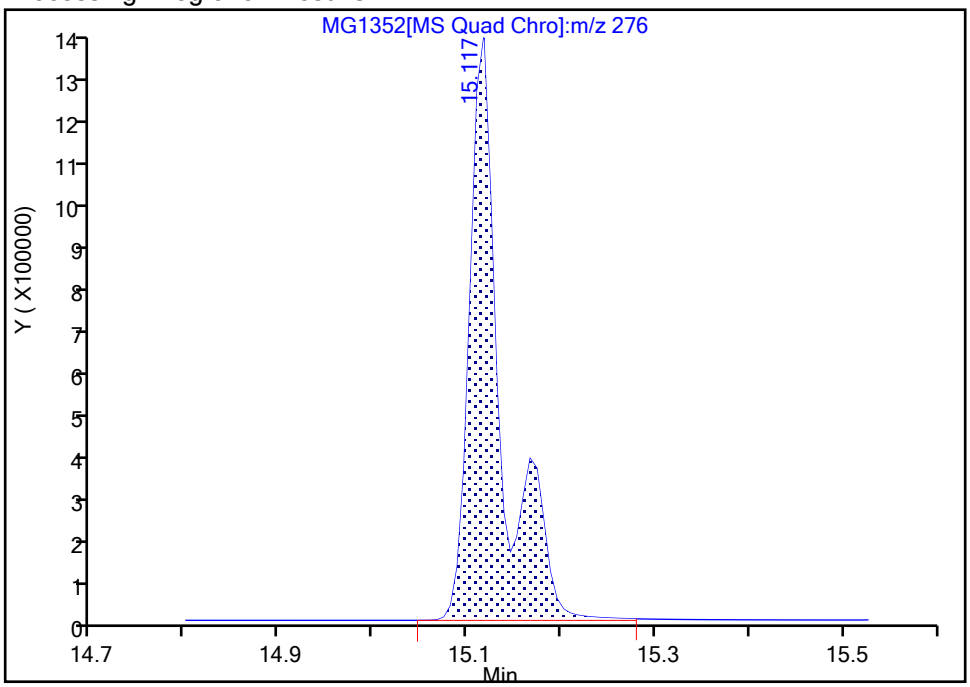
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20220728-62933.b\MG1352.D				
Injection Date:	28-Jul-2022 20:06:21	Instrument ID:	HP21585		
Lims ID:	IC L6				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

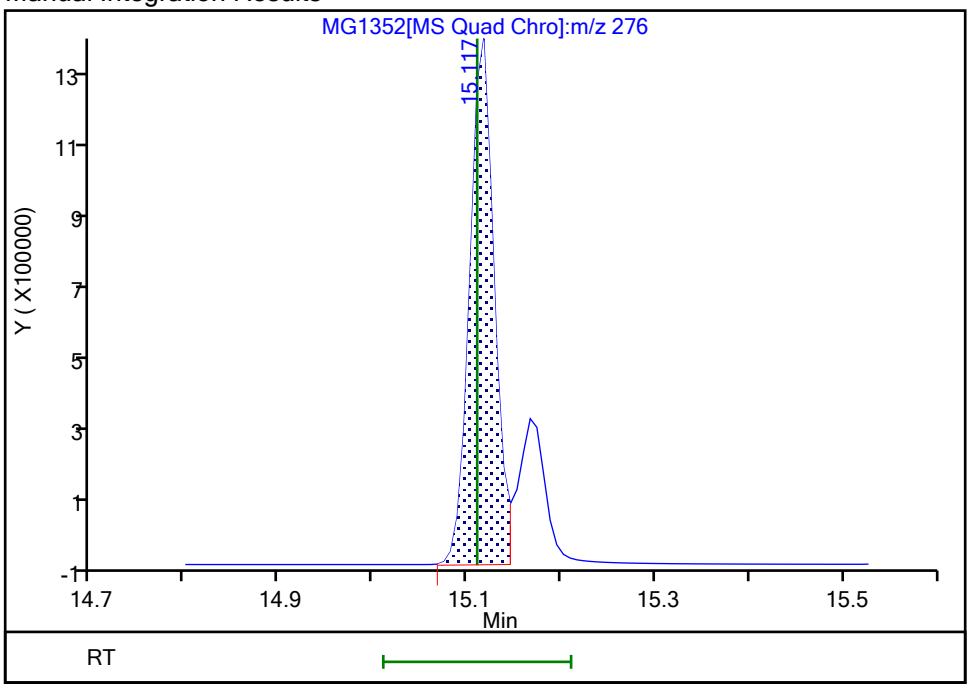
Processing Integration Results

RT: 15.12
Area: 3235008
Amount: 2.611096
Amount Units: ug/ml



Manual Integration Results

RT: 15.12
Area: 2468221
Amount: 2.615751
Amount Units: ug/ml



Reviewer: UJM0, 29-Jul-2022 06:37:28

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220728-62933.b\MG1353.D
Lims ID: IC L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 28-Jul-2022 20:27:39 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L5
Misc. Info.: 410-0062933-004
Operator ID: kel10217 Instrument ID: HP21585
Sublist: chrom-8270_SIM_HP21585*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20220728-62933.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 29-Jul-2022 11:57:43 Calib Date: 28-Jul-2022 21:32:00
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20220728-62933.b\MG1356.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1671

First Level Reviewer: UJM0 Date: 29-Jul-2022 06:38:16

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	1.850	1.859	-0.009	89	189515	1.00	0.99	M
	2 N-Nitrosodimethylamine	74	2.130	2.152	-0.022	90	239413	1.00	1.02	
	3 Bis(2-chloroethyl)ether	93	4.305	4.305	0.000	83	413146	1.00	0.9786	
*	4 1,4-Dichlorobenzene-d4	152	4.567	4.567	0.000	87	67871	0.2500	0.2500	
*	5 Naphthalene-d8	136	5.754	5.754	0.000	91	241273	0.2500	0.2500	
	6 Naphthalene	128	5.779	5.779	0.000	92	1171026	1.00	0.9710	
	7 Quinoline	129	6.092	6.092	0.000	96	712826	1.00	1.00	
	8 2-Methylnaphthalene	142	6.427	6.426	0.001	100	715223	1.00	0.9630	
$	9 1-Methylnaphthalene-d10	152	6.486	6.486	0.000	99	539784	1.00	0.9790	
	10 1-Methylnaphthalene	142	6.525	6.525	0.000	98	673002	1.00	0.9704	
	11 Dimethyl phthalate	163	7.165	7.155	0.010	75	3389431	5.00	5.04	
	12 Acenaphthylene	152	7.283	7.283	0.000	96	1079685	1.00	0.9892	
*	13 Acenaphthene-d10	164	7.421	7.411	0.010	92	135135	0.2500	0.2500	
	14 Acenaphthene	154	7.451	7.441	0.010	89	657042	1.00	0.9699	
	15 Dibenzofuran	168	7.608	7.608	0.000	83	973851	1.00	0.9466	
	16 Diethyl phthalate	149	7.832	7.824	0.008	98	3375774	5.00	5.24	
	17 Fluorene	166	7.933	7.933	0.000	99	782668	1.00	0.9824	
	18 N-Nitrosodiphenylamine	169	8.050	8.050	0.000	98	452010	1.00	0.9630	
	19 Hexachlorobenzene	284	8.456	8.448	0.008	98	218247	1.00	0.9576	
*	20 Phenanthrene-d10	188	8.823	8.823	0.000	95	240826	0.2500	0.2500	
	21 Phenanthrene	178	8.846	8.846	0.000	100	1112794	1.00	0.9635	
	22 Anthracene	178	8.893	8.893	0.000	100	1070418	1.00	0.99	
	23 Di-n-butyl phthalate	149	9.395	9.388	0.007	100	5225245	5.00	5.91	
$	24 Fluoranthene-d10 (Surr)	212	9.965	9.959	0.006	100	1006759	1.00	0.99	
	25 Fluoranthene	202	9.978	9.978	0.000	100	1229710	1.00	0.9829	
	26 Pyrene	202	10.197	10.197	0.000	100	1300828	1.00	0.9252	
	27 Butyl benzyl phthalate	149	10.882	10.874	0.008	100	1930554	5.00	5.23	
	28 Benzo[a]anthracene	228	11.488	11.488	0.000	100	1095452	1.00	0.9724	
*	29 Chrysene-d12	240	11.503	11.495	0.008	77	214815	0.2500	0.2500	
	30 Chrysene	228	11.534	11.526	0.008	100	1174785	1.00	0.9331	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	11.572	11.564	0.008	99	2888456	5.00	5.24	
32 Di-n-octyl phthalate	149	12.446	12.446	0.000	100	4810424	5.00	5.31	
33 Benzo[b]fluoranthene	252	12.914	12.914	0.000	100	1091346	1.00	0.9154	
34 Benzo[k]fluoranthene	252	12.953	12.953	0.000	100	1242338	1.00	0.9764	
35 Benzo[e]pyrene	252	13.305	13.298	0.007	100	1078812	1.00	0.9380	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.344	13.344	0.000	100	806881	1.00	0.99	
37 Benzo[a]pyrene	252	13.382	13.374	0.008	100	1087461	1.00	1.00	
* 38 Perylene-d12	264	13.459	13.459	0.000	100	219472	0.2500	0.2500	
39 Perylene	252	13.497	13.497	0.000	100	1078830	1.00	0.9067	
40 Indeno[1,2,3-cd]pyrene	276	15.103	15.096	0.007	99	910318	1.00	0.9850	M
41 Dibenz(a,h)anthracene	278	15.159	15.152	0.007	98	1070523	1.00	1.00	
42 Benzo[g,h,i]perylene	276	15.569	15.562	0.007	99	1134481	1.00	0.9577	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_5_00018 Amount Added: 1.00 Units: mL

Report Date: 29-Jul-2022 11:57:44 Chrom Revision: 2.3 19-Jul-2022 21:48:42

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220728-62933.b\MG1353.D

Injection Date: 28-Jul-2022 20:27:39 Instrument ID: HP21585 Operator ID: kel10217

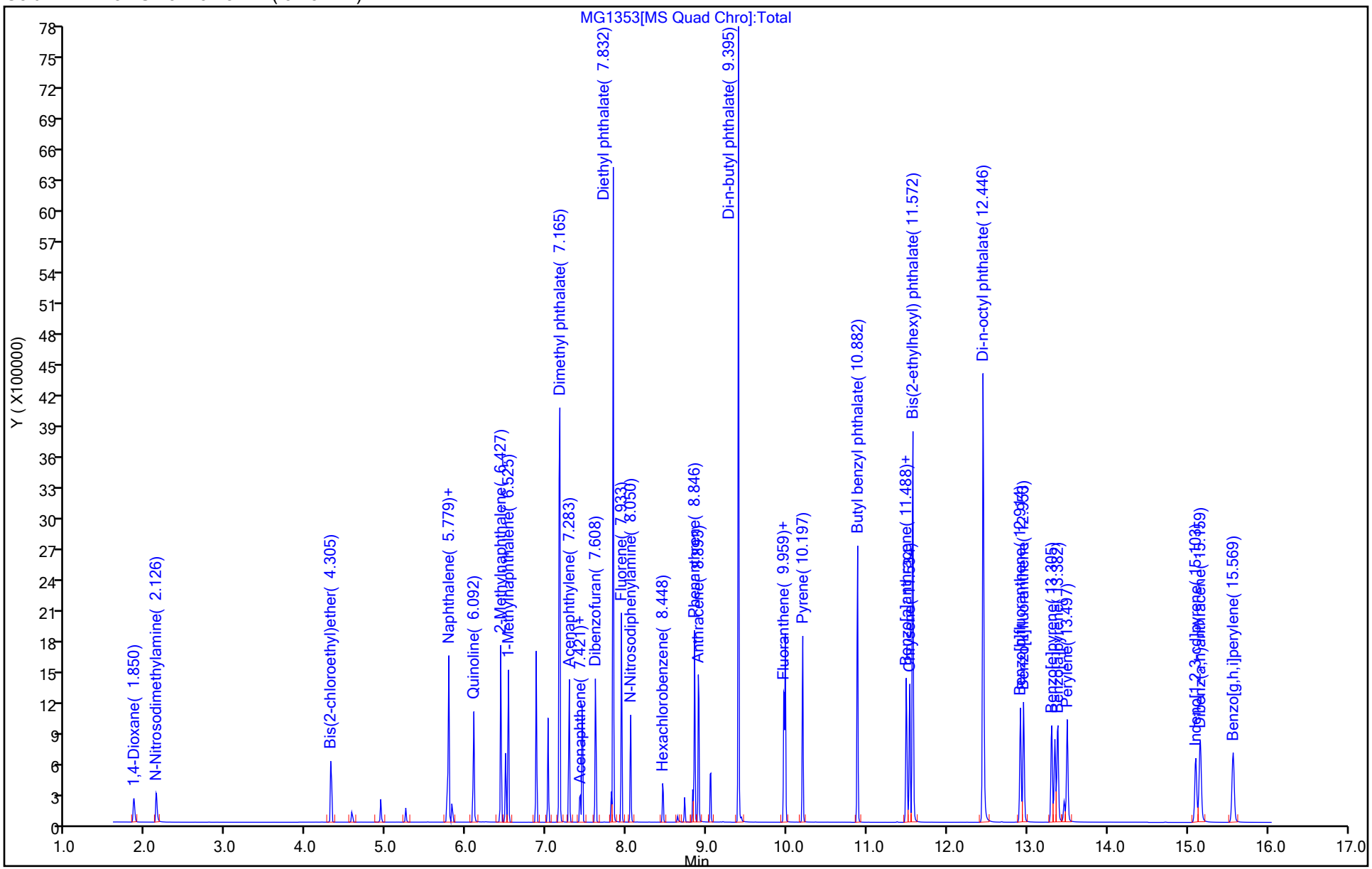
Lims ID: IC L5 Worklist Smp#: 4

Client ID:

Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 0

Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

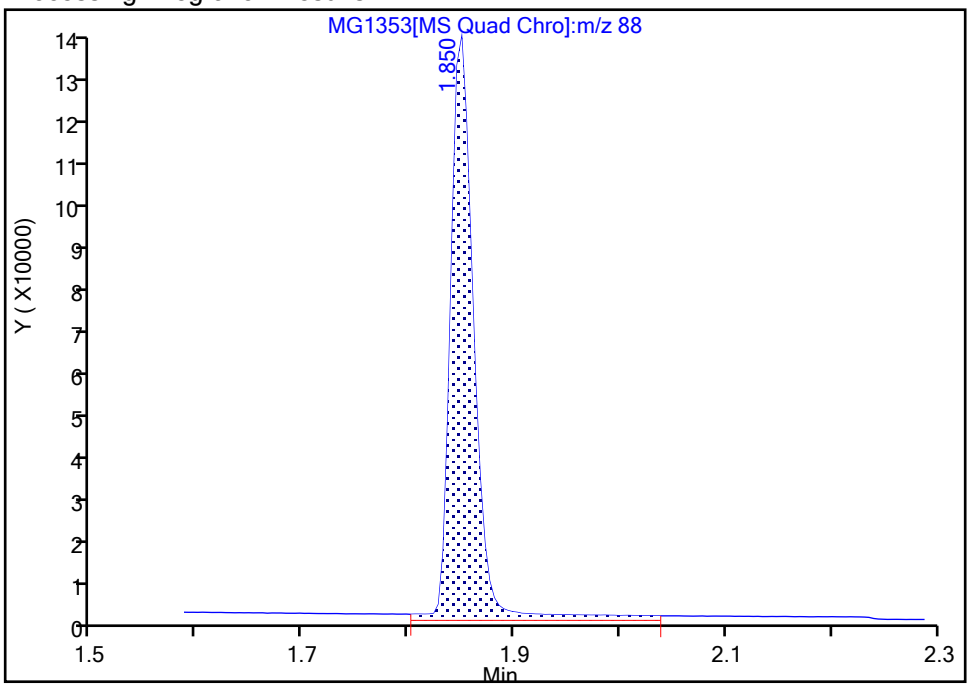
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20220728-62933.b\MG1353.D				
Injection Date:	28-Jul-2022 20:27:39	Instrument ID:	HP21585		
Lims ID:	IC L5				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

1 1,4-Dioxane, CAS: 123-91-1

Signal: 1

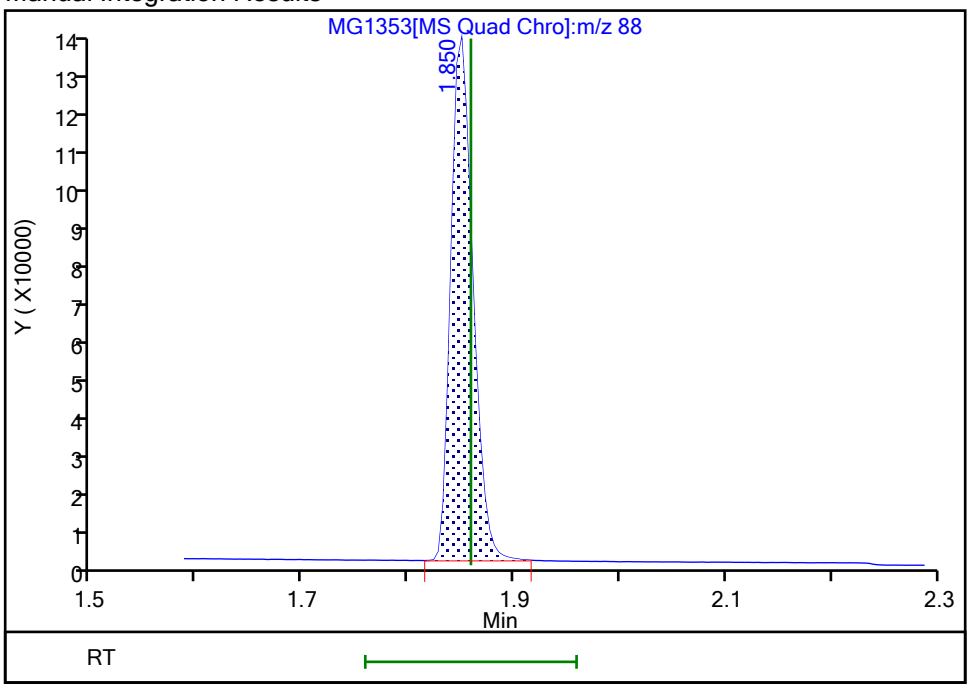
Processing Integration Results

RT: 1.85
Area: 207051
Amount: 0.217928
Amount Units: ug/ml



Manual Integration Results

RT: 1.85
Area: 189515
Amount: 0.992864
Amount Units: ug/ml



Reviewer: UJM0, 29-Jul-2022 06:37:55

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

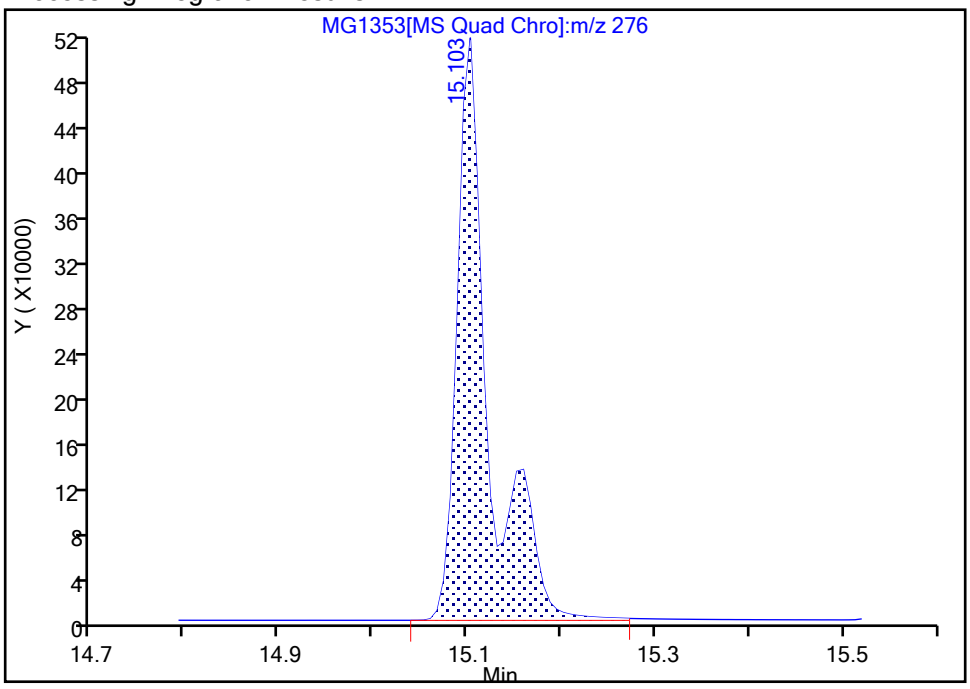
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20220728-62933.b\MG1353.D				
Injection Date:	28-Jul-2022 20:27:39	Instrument ID:	HP21585		
Lims ID:	IC L5				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

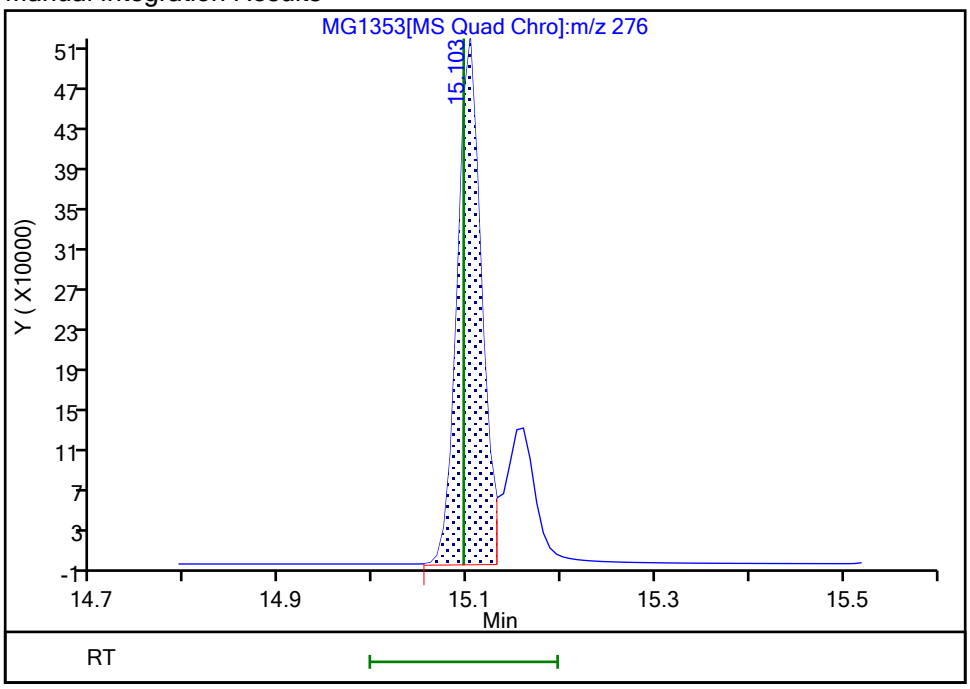
Processing Integration Results

RT: 15.10
Area: 1211277
Amount: 1.041170
Amount Units: ug/ml



Manual Integration Results

RT: 15.10
Area: 910318
Amount: 0.985002
Amount Units: ug/ml



Reviewer: UJM0, 29-Jul-2022 06:37:47

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220728-62933.b\MG1354.D
Lims ID: IC L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 28-Jul-2022 20:49:08 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L3
Misc. Info.: 410-0062933-005
Operator ID: kel10217 Instrument ID: HP21585
Sublist: chrom-8270_SIM_HP21585*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20220728-62933.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 29-Jul-2022 11:57:59 Calib Date: 28-Jul-2022 21:32:00
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20220728-62933.b\MG1356.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1671

First Level Reviewer: UJM0 Date: 29-Jul-2022 06:39:07

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	1.854	1.846	0.008	88	19203	0.1000	0.0990	M
	2 N-Nitrosodimethylamine	74	2.139	2.126	0.013	90	23951	0.1000	0.1009	
	3 Bis(2-chloroethyl)ether	93	4.317	4.305	0.012	84	42014	0.1000	0.1026	
*	4 1,4-Dichlorobenzene-d4	152	4.580	4.567	0.013	64	68946	0.2500	0.2500	
*	5 Naphthalene-d8	136	5.754	5.755	-0.001	91	234066	0.2500	0.2500	
	6 Naphthalene	128	5.779	5.780	-0.001	93	119127	0.1000	0.1018	
	7 Quinoline	129	6.092	6.092	0.000	95	69566	0.1000	0.1011	
	8 2-Methylnaphthalene	142	6.427	6.427	0.000	99	72981	0.1000	0.1013	
$	9 1-Methylnaphthalene-d10	152	6.486	6.486	0.000	99	54858	0.1000	0.1026	
	10 1-Methylnaphthalene	142	6.525	6.525	0.000	100	68332	0.1000	0.1016	
	11 Dimethyl phthalate	163	7.165	7.165	0.000	75	678708	1.00	1.04	
	12 Acenaphthylene	152	7.283	7.284	-0.001	96	103887	0.1000	0.0977	
*	13 Acenaphthene-d10	164	7.411	7.421	-0.010	98	131630	0.2500	0.2500	
	14 Acenaphthene	154	7.441	7.451	-0.010	88	64637	0.1000	0.0980	
	15 Dibenzofuran	168	7.608	7.618	-0.010	95	100563	0.1000	0.1004	
	16 Diethyl phthalate	149	7.832	7.832	0.000	98	644688	1.00	1.03	
	17 Fluorene	166	7.933	7.933	0.000	98	76800	0.1000	0.0990	
	18 N-Nitrosodiphenylamine	169	8.050	8.050	0.000	97	46661	0.1000	0.1024	
	19 Hexachlorobenzene	284	8.448	8.456	-0.008	100	22170	0.1000	0.1002	
*	20 Phenanthrene-d10	188	8.823	8.831	-0.008	95	233887	0.2500	0.2500	
	21 Phenanthrene	178	8.846	8.847	-0.001	100	111208	0.1000	0.0991	
	22 Anthracene	178	8.893	8.901	-0.008	100	103024	0.1000	0.0985	
	23 Di-n-butyl phthalate	149	9.395	9.395	0.000	100	900251	1.00	1.05	
$	24 Fluoranthene-d10 (Surr)	212	9.959	9.965	-0.006	99	98410	0.1000	0.0999	
	25 Fluoranthene	202	9.978	9.984	-0.006	100	119669	0.1000	0.0985	
	26 Pyrene	202	10.197	10.204	-0.007	100	124918	0.1000	0.0994	
	27 Butyl benzyl phthalate	149	10.874	10.882	-0.008	100	252875	1.00	0.9760	
	28 Benzo[a]anthracene	228	11.488	11.496	-0.008	100	97577	0.1000	0.0970	
*	29 Chrysene-d12	240	11.503	11.503	0.000	56	191917	0.2500	0.2500	
	30 Chrysene	228	11.526	11.534	-0.008	100	113375	0.1000	0.1008	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	11.564	11.572	-0.008	100	387631	1.00	0.9870	
32 Di-n-octyl phthalate	149	12.446	12.454	-0.008	100	590702	1.00	0.9704	
33 Benzo[b]fluoranthene	252	12.914	12.922	-0.008	100	97412	0.1000	0.0986	
34 Benzo[k]fluoranthene	252	12.953	12.960	-0.007	100	106763	0.1000	0.1013	
35 Benzo[e]pyrene	252	13.298	13.306	-0.008	100	96322	0.1000	0.1011	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.344	13.352	-0.008	100	65981	0.1000	0.0982	
37 Benzo[a]pyrene	252	13.374	13.382	-0.008	100	90188	0.1000	0.1001	
* 38 Perylene-d12	264	13.459	13.467	-0.008	100	181832	0.2500	0.2500	
39 Perylene	252	13.497	13.505	-0.008	100	101214	0.1000	0.1027	
40 Indeno[1,2,3-cd]pyrene	276	15.096	15.110	-0.014	100	74444	0.1000	0.0972	M
41 Dibenz(a,h)anthracene	278	15.152	15.167	-0.015	98	88760	0.1000	0.0998	
42 Benzo[g,h,i]perylene	276	15.562	15.576	-0.014	98	97965	0.1000	0.0998	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_3_00017 Amount Added: 1.00 Units: mL

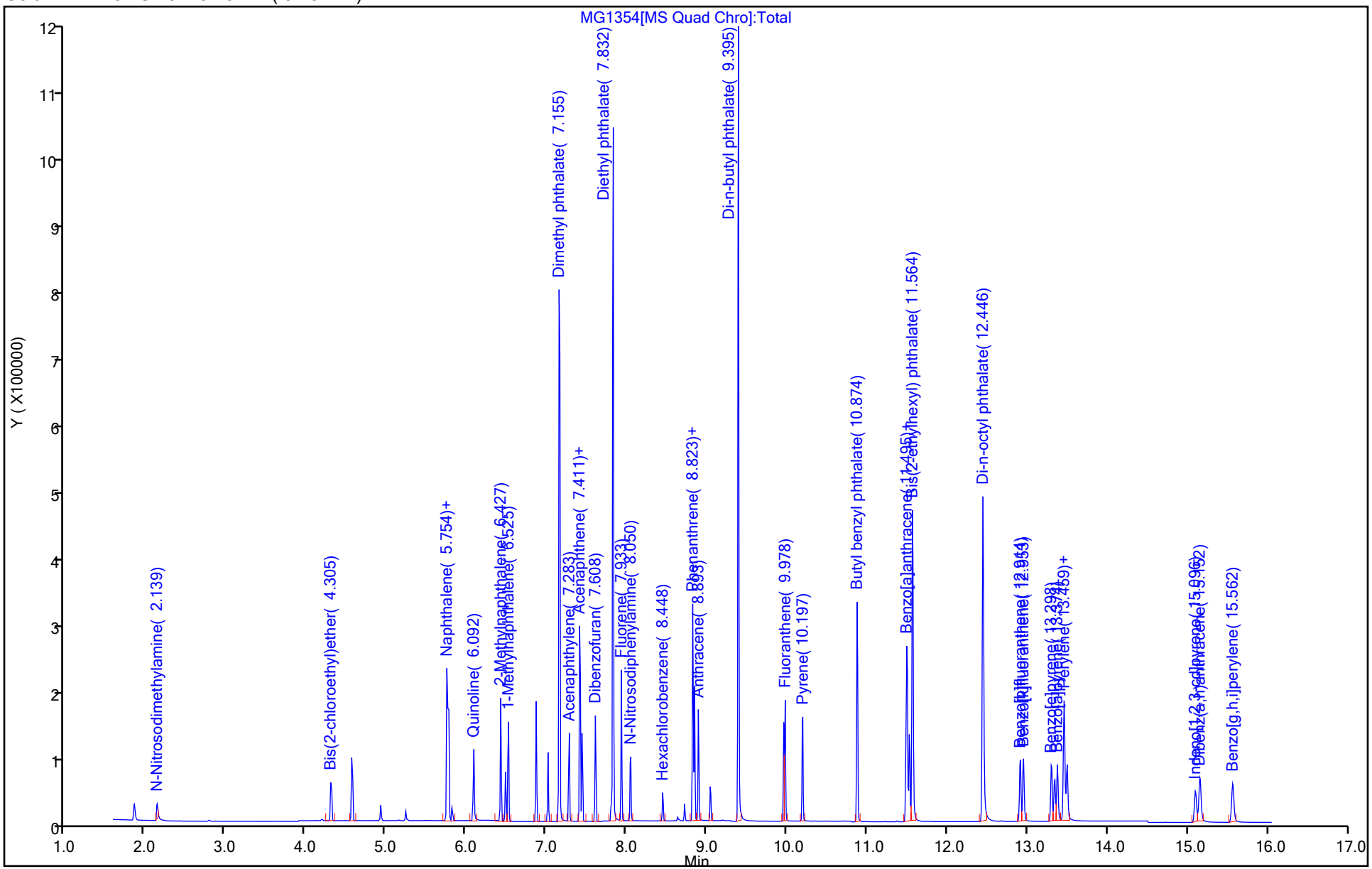
Report Date: 29-Jul-2022 11:57:59 Chrom Revision: 2.3 19-Jul-2022 21:48:42

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220728-62933.b\MG1354.D

Injection Date:	28-Jul-2022 20:49:08	Instrument ID:	HP21585	Operator ID:	kel10217
Lims ID:	IC L3			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

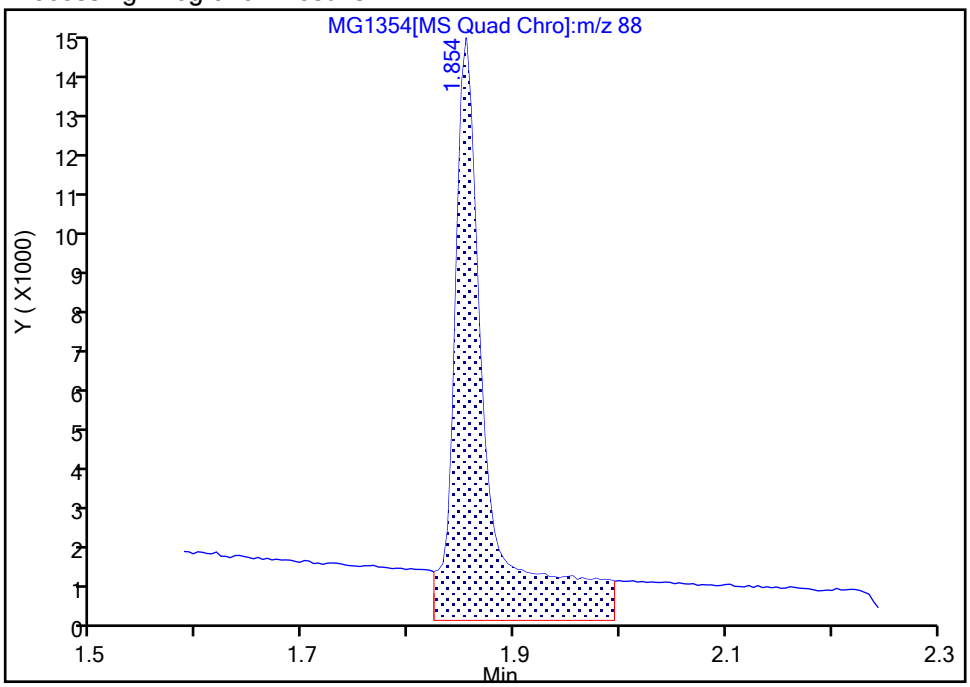
Data File: \\chromfs\Lancaster\ChromData\HP21585\20220728-62933.b\MG1354.D
Injection Date: 28-Jul-2022 20:49:08 Instrument ID: HP21585
Lims ID: IC L3
Client ID:
Operator ID: kel10217 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

1 1,4-Dioxane, CAS: 123-91-1

Signal: 1

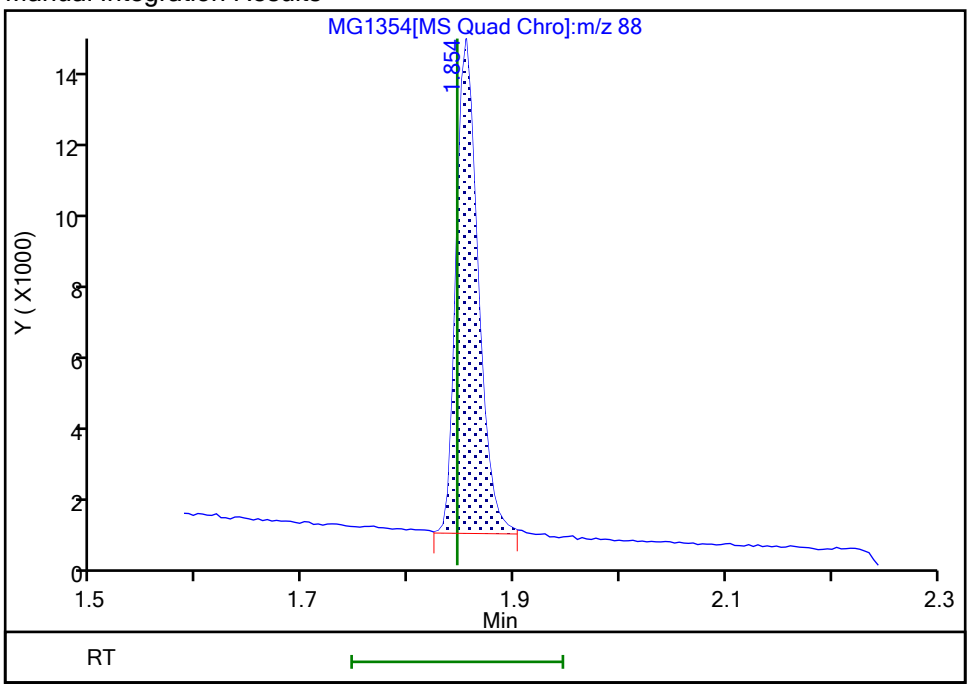
Processing Integration Results

RT: 1.85
Area: 30770
Amount: 0.031980
Amount Units: ug/ml



Manual Integration Results

RT: 1.85
Area: 19203
Amount: 0.099035
Amount Units: ug/ml



Reviewer: UJM0, 29-Jul-2022 06:38:28
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

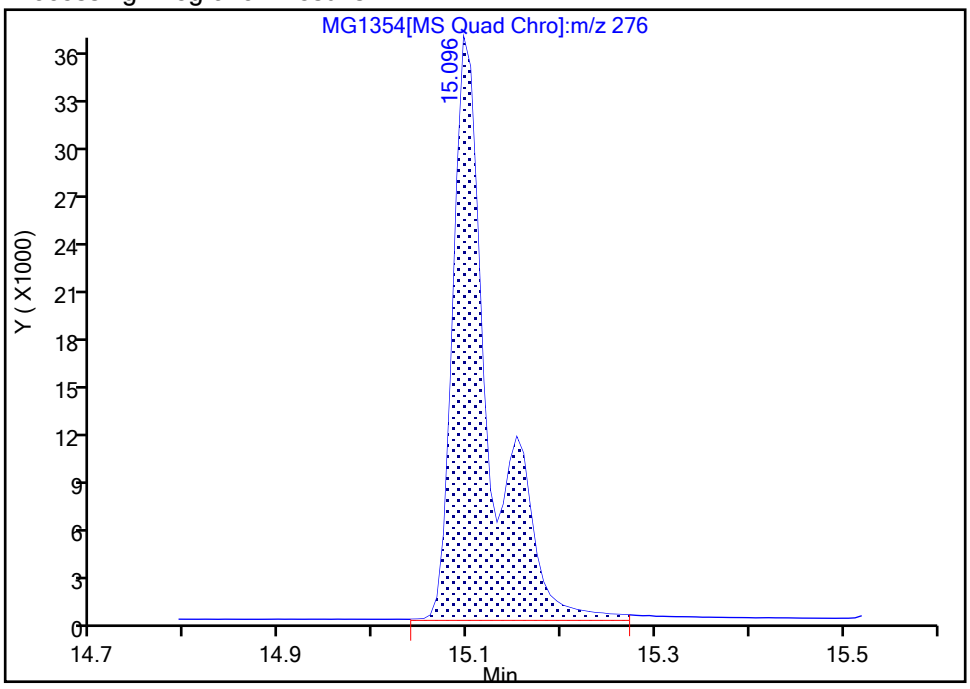
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20220728-62933.b\MG1354.D				
Injection Date:	28-Jul-2022 20:49:08	Instrument ID:	HP21585		
Lims ID:	IC L3				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

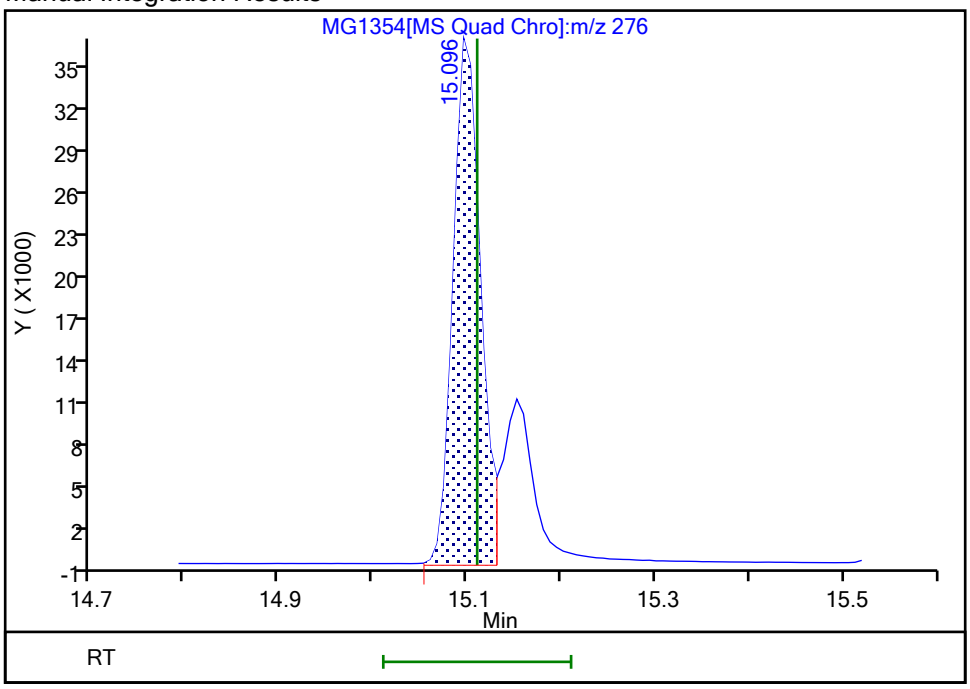
Processing Integration Results

RT: 15.10
Area: 101921
Amount: 0.110507
Amount Units: ug/ml



Manual Integration Results

RT: 15.10
Area: 74444
Amount: 0.097226
Amount Units: ug/ml



Reviewer: UJM0, 29-Jul-2022 06:38:55

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220728-62933.b\MG1355.D
Lims ID: IC L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 28-Jul-2022 21:10:32 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L2
Misc. Info.: 410-0062933-006
Operator ID: kel10217 Instrument ID: HP21585
Sublist: chrom-8270_SIM_HP21585*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20220728-62933.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 29-Jul-2022 11:58:02 Calib Date: 28-Jul-2022 21:32:00
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20220728-62933.b\MG1356.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1671

First Level Reviewer: UJM0 Date: 29-Jul-2022 06:39:58

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	1.854	1.846	0.008	88	9114	0.0500	0.0480	M
	2 N-Nitrosodimethylamine	74	2.144	2.126	0.018	89	11267	0.0500	0.0485	
	3 Bis(2-chloroethyl)ether	93	4.317	4.305	0.012	84	20001	0.0500	0.0494	
*	4 1,4-Dichlorobenzene-d4	152	4.580	4.567	0.013	64	67524	0.2500	0.2500	
*	5 Naphthalene-d8	136	5.754	5.755	-0.001	91	231624	0.2500	0.2500	
	6 Naphthalene	128	5.779	5.780	-0.001	94	58176	0.0500	0.0502	
	7 Quinoline	129	6.092	6.092	0.000	96	32709	0.0500	0.0480	
	8 2-Methylnaphthalene	142	6.427	6.427	0.000	98	35775	0.0500	0.0502	
$	9 1-Methylnaphthalene-d10	152	6.486	6.486	0.000	99	26487	0.0500	0.0500	
	10 1-Methylnaphthalene	142	6.525	6.525	0.000	100	33179	0.0500	0.0498	
	11 Dimethyl phthalate	163	7.155	7.165	-0.010	75	333649	0.5000	0.5228	
	12 Acenaphthylene	152	7.283	7.284	-0.001	96	49630	0.0500	0.0479	
*	13 Acenaphthene-d10	164	7.421	7.421	0.000	97	128291	0.2500	0.2500	
	14 Acenaphthene	154	7.441	7.451	-0.010	88	31375	0.0500	0.0488	
	15 Dibenzofuran	168	7.608	7.618	-0.010	95	48881	0.0500	0.0500	
	16 Diethyl phthalate	149	7.832	7.832	0.000	98	312109	0.5000	0.5106	
	17 Fluorene	166	7.933	7.933	0.000	99	36941	0.0500	0.0488	
	18 N-Nitrosodiphenylamine	169	8.050	8.050	0.000	99	22915	0.0500	0.0509	
	19 Hexachlorobenzene	284	8.448	8.456	-0.008	100	10753	0.0500	0.0492	
*	20 Phenanthrene-d10	188	8.823	8.831	-0.008	95	230813	0.2500	0.2500	
	21 Phenanthrene	178	8.847	8.847	0.000	100	55080	0.0500	0.0498	
	22 Anthracene	178	8.893	8.901	-0.008	100	49225	0.0500	0.0477	
	23 Di-n-butyl phthalate	149	9.395	9.395	0.000	100	412109	0.5000	0.4859	
$	24 Fluoranthene-d10 (Surr)	212	9.959	9.965	-0.006	99	47722	0.0500	0.0491	
	25 Fluoranthene	202	9.978	9.984	-0.006	100	58300	0.0500	0.0486	
	26 Pyrene	202	10.191	10.204	-0.013	100	59951	0.0500	0.0497	
	27 Butyl benzyl phthalate	149	10.874	10.882	-0.008	100	106162	0.5000	0.4593	
	28 Benzo[a]anthracene	228	11.488	11.496	-0.008	100	46481	0.0500	0.0481	
*	29 Chrysene-d12	240	11.495	11.503	-0.008	59	184226	0.2500	0.2500	
	30 Chrysene	228	11.526	11.534	-0.008	100	54485	0.0500	0.0505	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	11.565	11.572	-0.007	100	159534	0.5000	0.4553	
32 Di-n-octyl phthalate	149	12.447	12.454	-0.007	100	235365	0.5000	0.4479	
33 Benzo[b]fluoranthene	252	12.907	12.922	-0.015	100	45705	0.0500	0.0497	
34 Benzo[k]fluoranthene	252	12.953	12.960	-0.007	100	48703	0.0500	0.0496	
35 Benzo[e]pyrene	252	13.298	13.306	-0.008	100	44622	0.0500	0.0503	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.344	13.352	-0.008	100	30039	0.0500	0.0480	
37 Benzo[a]pyrene	252	13.375	13.382	-0.007	100	39990	0.0500	0.0477	
* 38 Perylene-d12	264	13.459	13.467	-0.008	100	169397	0.2500	0.2500	
39 Perylene	252	13.497	13.505	-0.008	100	47503	0.0500	0.0517	
40 Indeno[1,2,3-cd]pyrene	276	15.096	15.110	-0.014	100	34012	0.0500	0.0477	M
41 Dibenz(a,h)anthracene	278	15.152	15.167	-0.015	98	39820	0.0500	0.0481	
42 Benzo[g,h,i]perylene	276	15.562	15.576	-0.014	98	45391	0.0500	0.0496	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_2_00018 Amount Added: 1.00 Units: mL

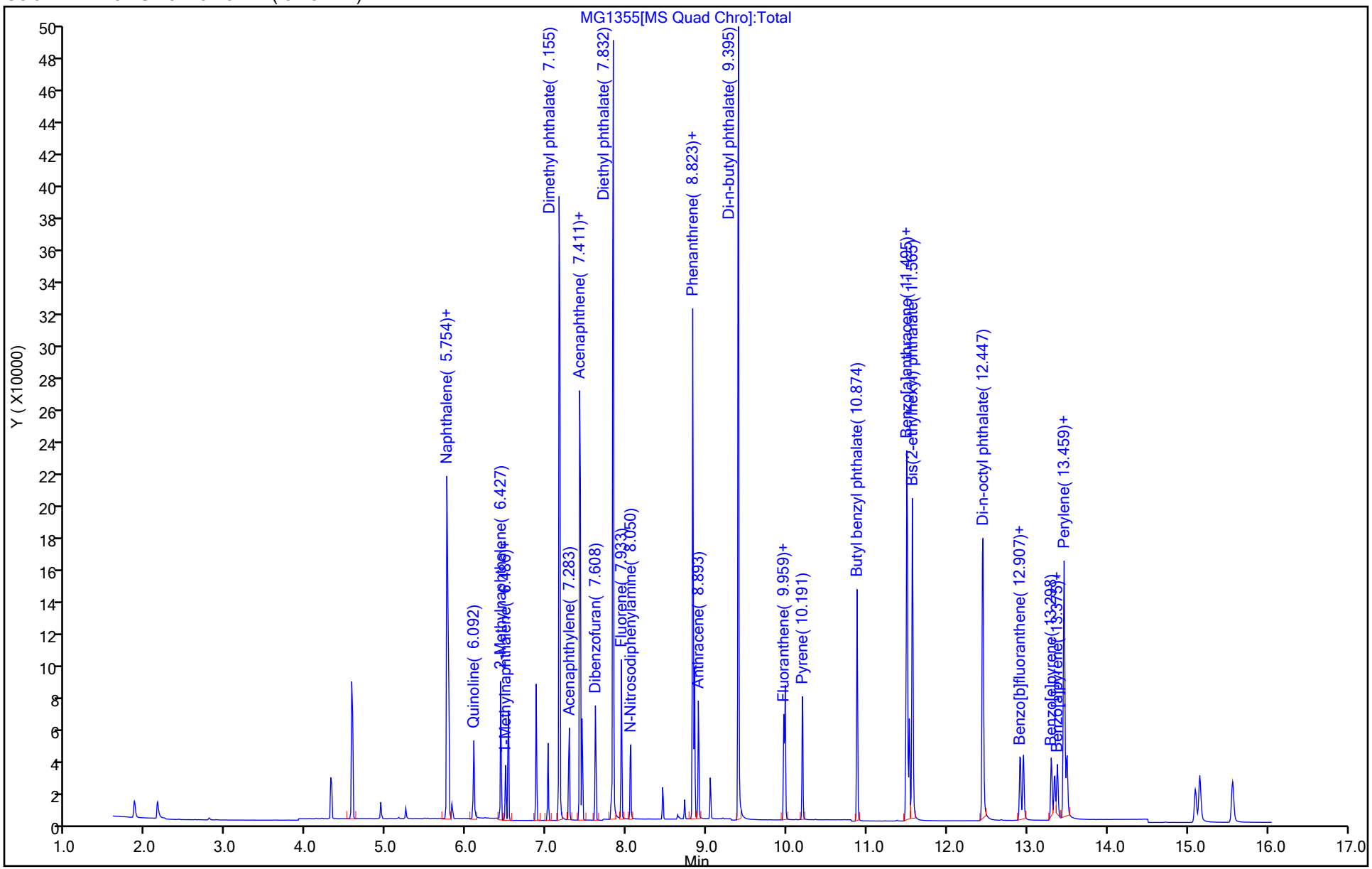
Report Date: 29-Jul-2022 11:58:03 Chrom Revision: 2.3 19-Jul-2022 21:48:42

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220728-62933.b\MG1355.D

Injection Date:	28-Jul-2022 21:10:32	Instrument ID:	HP21585	Operator ID:	kel10217
Lims ID:	IC L2			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

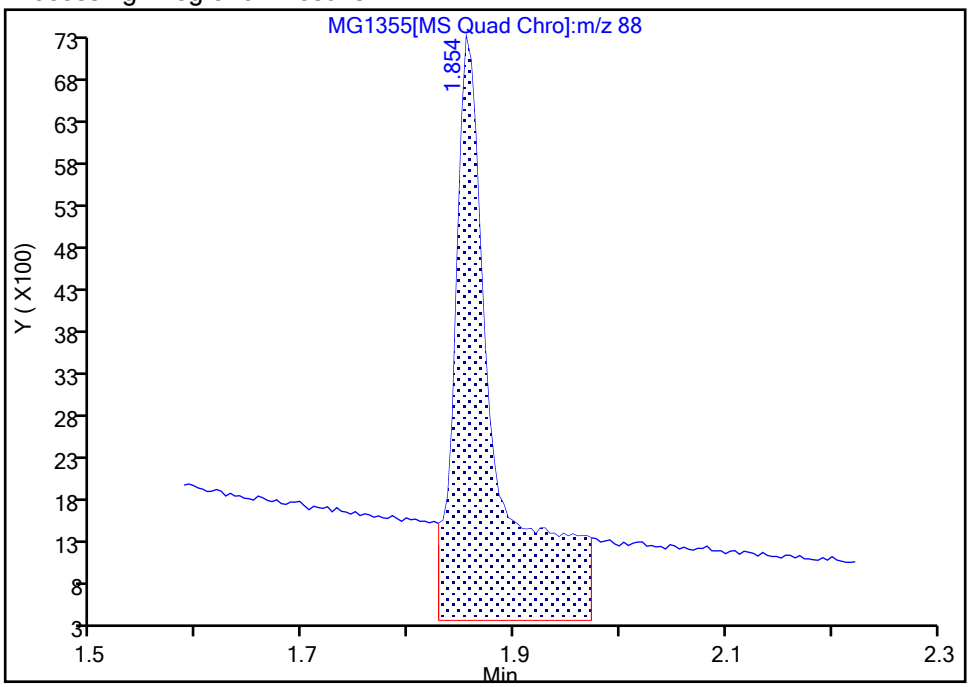
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20220728-62933.b\MG1355.D				
Injection Date:	28-Jul-2022 21:10:32	Instrument ID:	HP21585		
Lims ID:	IC L2				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

1 1,4-Dioxane, CAS: 123-91-1

Signal: 1

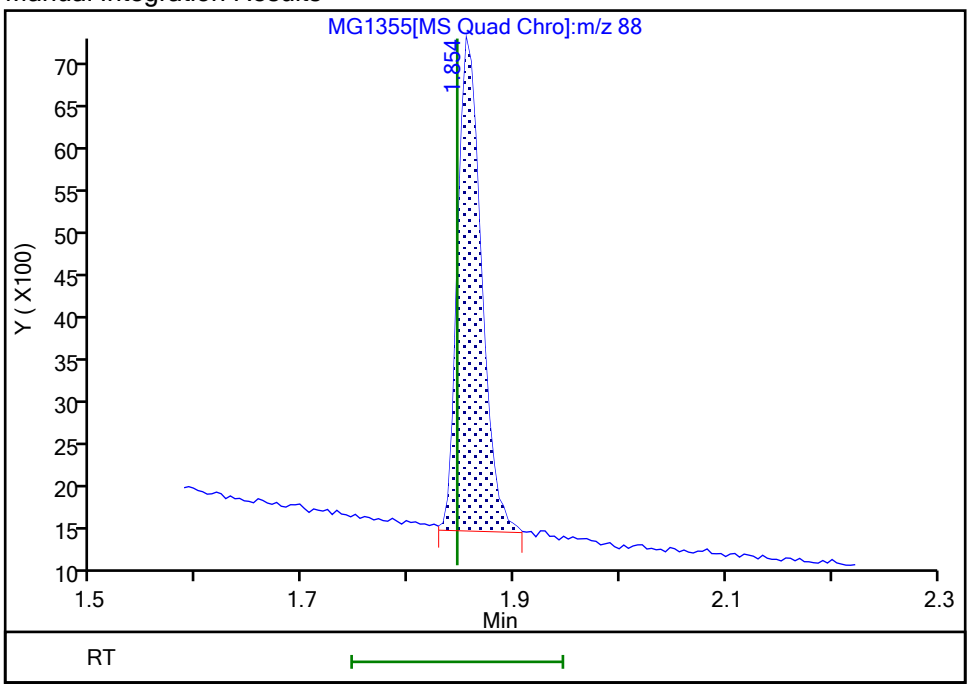
Processing Integration Results

RT: 1.85
Area: 18354
Amount: 0.019876
Amount Units: ug/ml



Manual Integration Results

RT: 1.85
Area: 9114
Amount: 0.047993
Amount Units: ug/ml



Reviewer: UJM0, 29-Jul-2022 06:39:18

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

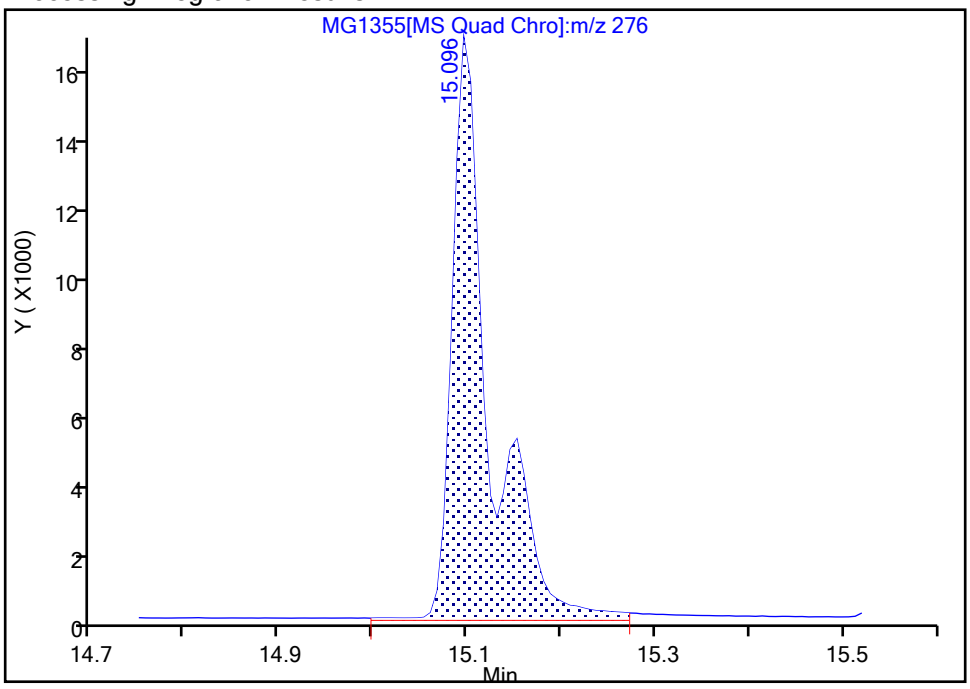
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20220728-62933.b\MG1355.D				
Injection Date:	28-Jul-2022 21:10:32	Instrument ID:	HP21585		
Lims ID:	IC L2				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

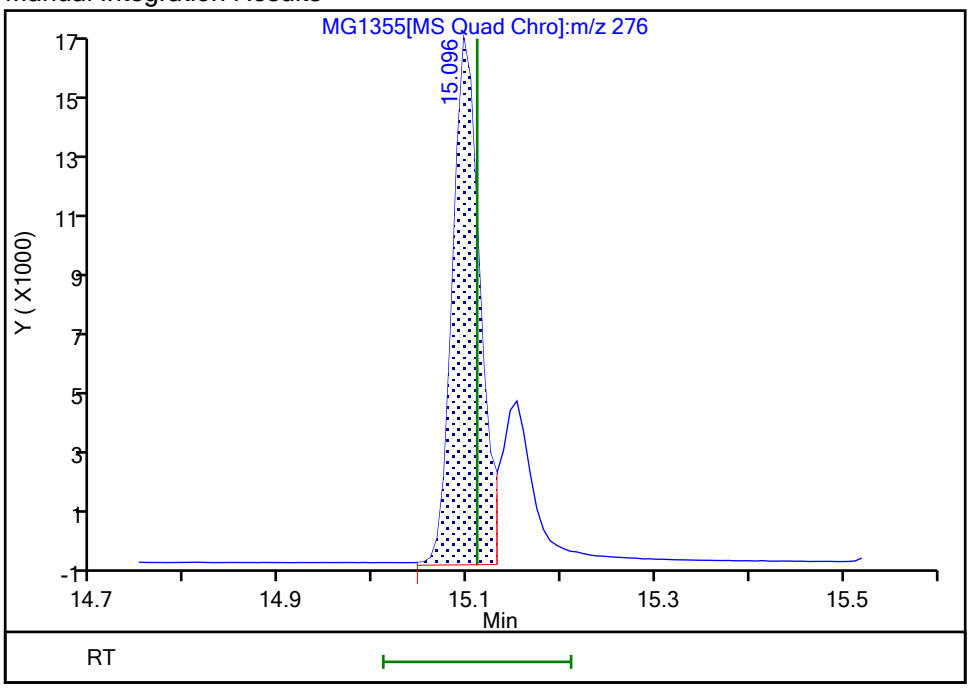
Processing Integration Results

RT: 15.10
Area: 47031
Amount: 0.057596
Amount Units: ug/ml



Manual Integration Results

RT: 15.10
Area: 34012
Amount: 0.047681
Amount Units: ug/ml



Reviewer: UJM0, 29-Jul-2022 06:39:50

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220728-62933.b\MG1356.D
Lims ID: IC L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 28-Jul-2022 21:32:00 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L1
Misc. Info.: 410-0062933-007
Operator ID: kel10217 Instrument ID: HP21585
Sublist: chrom-8270_SIM_HP21585*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20220728-62933.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 29-Jul-2022 11:58:05 Calib Date: 28-Jul-2022 21:32:00
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20220728-62933.b\MG1356.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1671

First Level Reviewer: UJM0 Date: 29-Jul-2022 06:41:01

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.859	1.859	0.000	89	1931	0.0100	0.0102	M
2 N-Nitrosodimethylamine	74	2.152	2.152	0.000	89	2146	0.0100	0.009266	M
3 Bis(2-chloroethyl)ether	93	4.305	4.305	0.000	82	4321	0.0100	0.0106	
* 4 1,4-Dichlorobenzene-d4	152	4.567	4.567	0.000	91	67283	0.2500	0.2500	
* 5 Naphthalene-d8	136	5.754	5.754	0.000	91	232565	0.2500	0.2500	
6 Naphthalene	128	5.779	5.779	0.000	94	12399	0.0100	0.0107	
7 Quinoline	129	6.092	6.092	0.000	97	6825	0.0100	0.0100	
8 2-Methylnaphthalene	142	6.426	6.426	0.000	99	7716	0.0100	0.0108	
$ 9 1-Methylnaphthalene-d10	152	6.486	6.486	0.000	99	5610	0.0100	0.0106	
10 1-Methylnaphthalene	142	6.525	6.525	0.000	100	7082	0.0100	0.0106	
11 Dimethyl phthalate	163	7.155	7.155	0.000	81	53864	0.1000	0.0862	
12 Acenaphthylene	152	7.283	7.283	0.000	96	10350	0.0100	0.0102	
* 13 Acenaphthene-d10	164	7.411	7.411	0.000	98	125570	0.2500	0.2500	
14 Acenaphthene	154	7.441	7.441	0.000	92	6532	0.0100	0.0104	
15 Dibenzofuran	168	7.608	7.608	0.000	94	10165	0.0100	0.0106	
16 Diethyl phthalate	149	7.824	7.824	0.000	99	49027	0.1000	0.0819	
17 Fluorene	166	7.933	7.933	0.000	98	7661	0.0100	0.0103	
18 N-Nitrosodiphenylamine	169	8.050	8.050	0.000	98	4674	0.0100	0.0108	
19 Hexachlorobenzene	284	8.448	8.448	0.000	99	2277	0.0100	0.0108	
* 20 Phenanthrene-d10	188	8.823	8.823	0.000	95	222698	0.2500	0.2500	
21 Phenanthrene	178	8.846	8.846	0.000	100	11507	0.0100	0.0108	
22 Anthracene	178	8.893	8.893	0.000	100	10107	0.0100	0.0101	
23 Di-n-butyl phthalate	149	9.388	9.388	0.000	100	58417	0.1000	0.0714	
$ 24 Fluoranthene-d10 (Surr)	212	9.959	9.959	0.000	98	9271	0.0100	0.009881	
25 Fluoranthene	202	9.978	9.978	0.000	100	12013	0.0100	0.0104	
26 Pyrene	202	10.197	10.197	0.000	100	12873	0.0100	0.0115	
27 Butyl benzyl phthalate	149	10.874	10.874	0.000	100	14927	0.1000	0.1016	
28 Benzo[a]anthracene	228	11.488	11.488	0.000	100	9451	0.0100	0.0105	
* 29 Chrysene-d12	240	11.495	11.495	0.000	57	171370	0.2500	0.2500	
30 Chrysene	228	11.526	11.526	0.000	100	10846	0.0100	0.0108	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	11.564	11.564	0.000	100	22671	0.1000	0.1016	
32 Di-n-octyl phthalate	149	12.446	12.446	0.000	100	31589	0.1000	0.1020	
33 Benzo[b]fluoranthene	252	12.914	12.914	0.000	100	9478	0.0100	0.0113	
34 Benzo[k]fluoranthene	252	12.953	12.953	0.000	100	9420	0.0100	0.0105	
35 Benzo[e]pyrene	252	13.298	13.298	0.000	100	8790	0.0100	0.0109	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.344	13.344	0.000	100	5623	0.0100	0.009861	
37 Benzo[a]pyrene	252	13.374	13.374	0.000	100	7363	0.0100	0.009635	
* 38 Perylene-d12	264	13.459	13.459	0.000	100	154251	0.2500	0.2500	
39 Perylene	252	13.497	13.497	0.000	100	9604	0.0100	0.0115	
40 Indeno[1,2,3-cd]pyrene	276	15.096	15.096	0.000	100	6489	0.0100	0.0100	M
41 Dibenz(a,h)anthracene	278	15.152	15.152	0.000	95	7178	0.0100	0.009517	
42 Benzo[g,h,i]perylene	276	15.562	15.562	0.000	98	8673	0.0100	0.0104	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_1_00018 Amount Added: 1.00 Units: mL

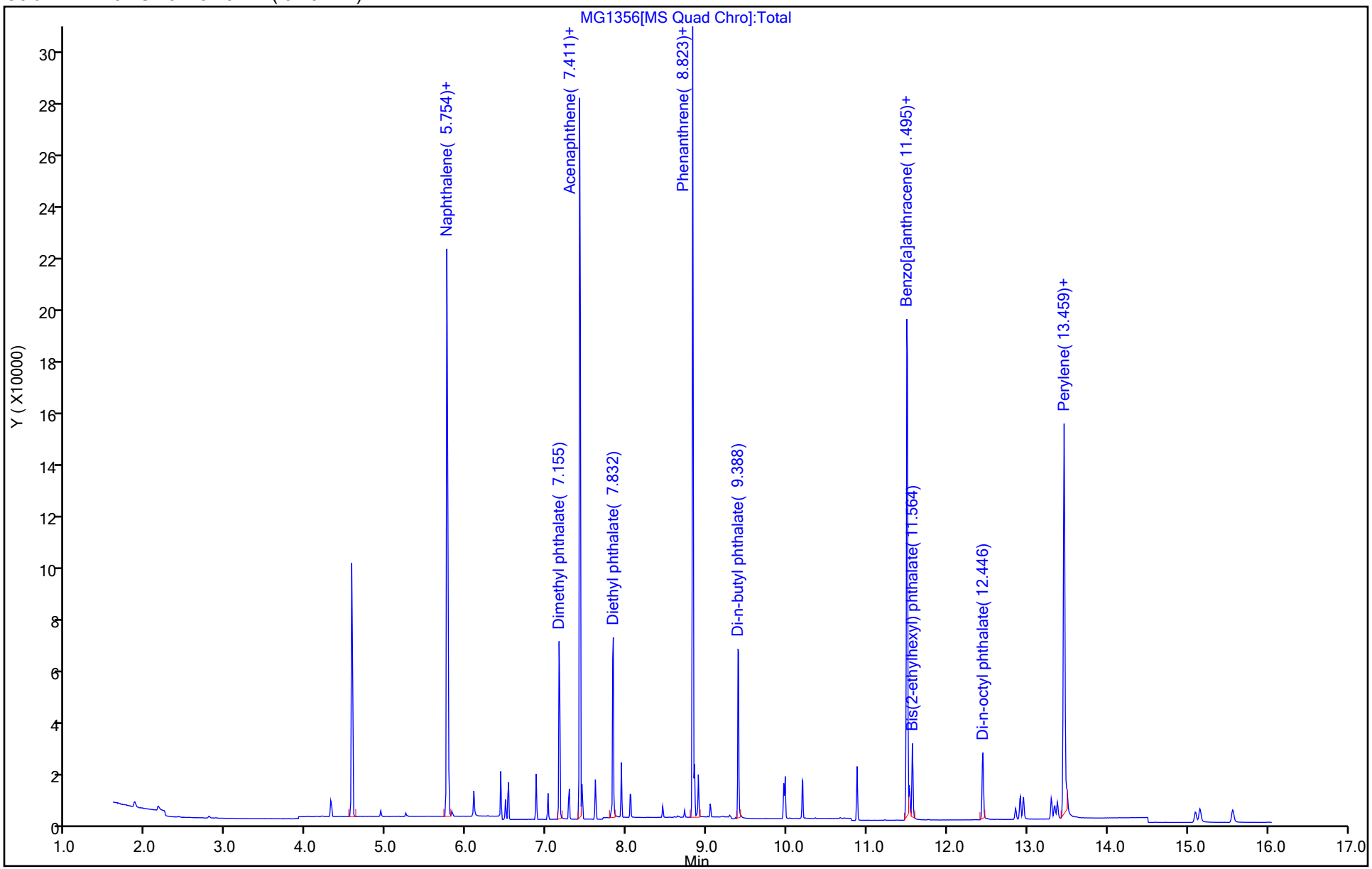
Report Date: 29-Jul-2022 11:58:06 Chrom Revision: 2.3 19-Jul-2022 21:48:42

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220728-62933.b\MG1356.D

Injection Date:	28-Jul-2022 21:32:00	Instrument ID:	HP21585	Operator ID:	kel10217
Lims ID:	IC L1			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

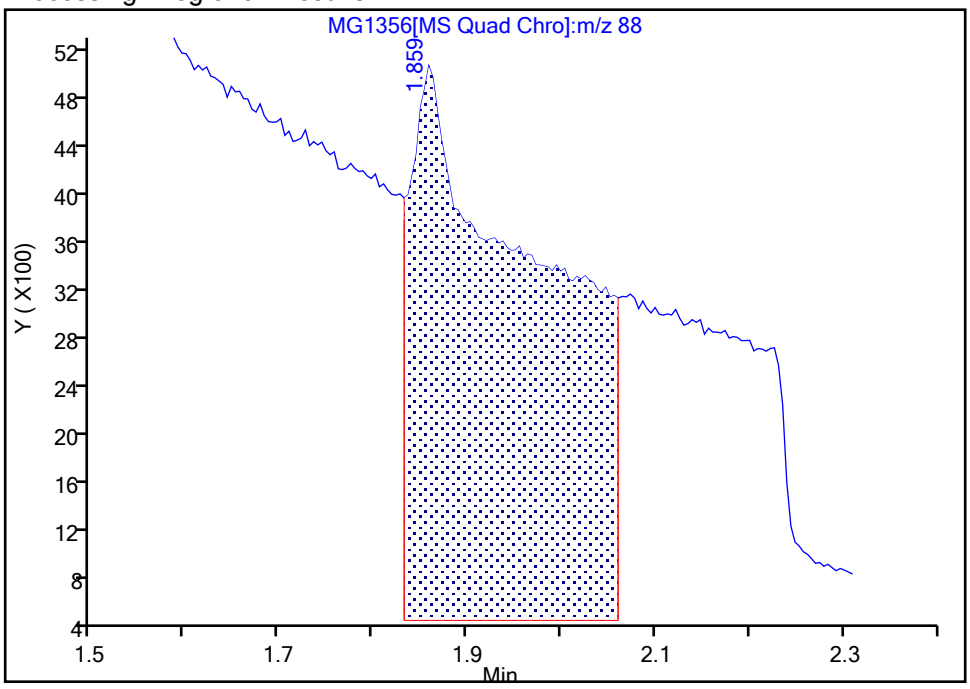
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20220728-62933.b\MG1356.D				
Injection Date:	28-Jul-2022 21:32:00	Instrument ID:	HP21585		
Lims ID:	IC L1				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

1 1,4-Dioxane, CAS: 123-91-1

Signal: 1

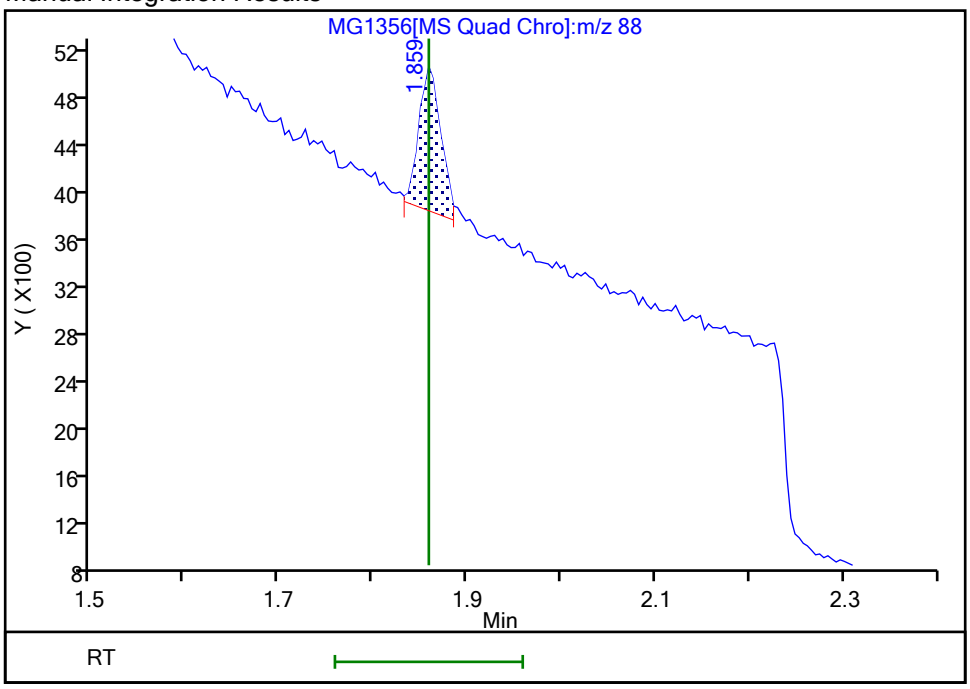
Processing Integration Results

RT: 1.86
Area: 43590
Amount: 0.049336
Amount Units: ug/ml



Manual Integration Results

RT: 1.86
Area: 1931
Amount: 0.010205
Amount Units: ug/ml



Reviewer: UJM0, 29-Jul-2022 06:40:13

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

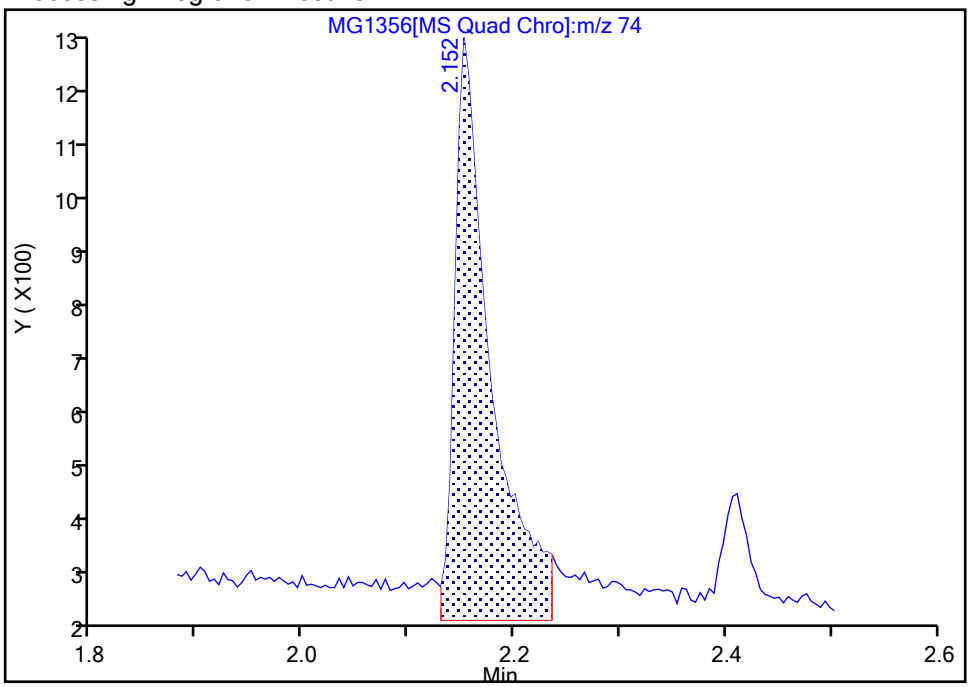
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20220728-62933.b\MG1356.D				
Injection Date:	28-Jul-2022 21:32:00	Instrument ID:	HP21585		
Lims ID:	IC L1				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

2 N-Nitrosodimethylamine, CAS: 62-75-9

Signal: 1

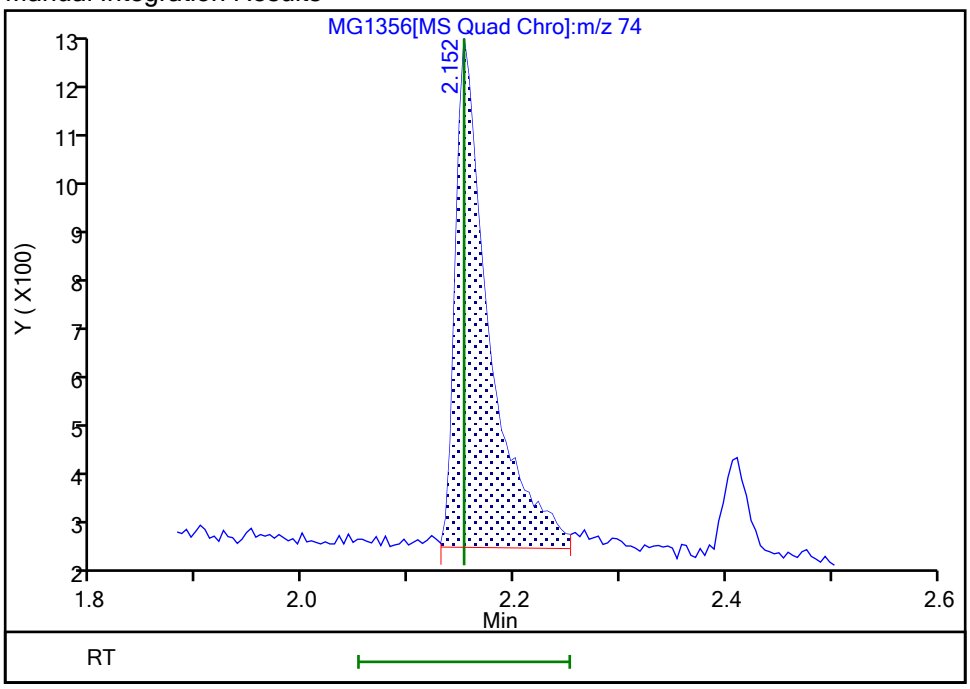
Processing Integration Results

RT: 2.15
Area: 2425
Amount: 0.010265
Amount Units: ug/ml



Manual Integration Results

RT: 2.15
Area: 2146
Amount: 0.009266
Amount Units: ug/ml



Reviewer: UJM0, 29-Jul-2022 06:40:22

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

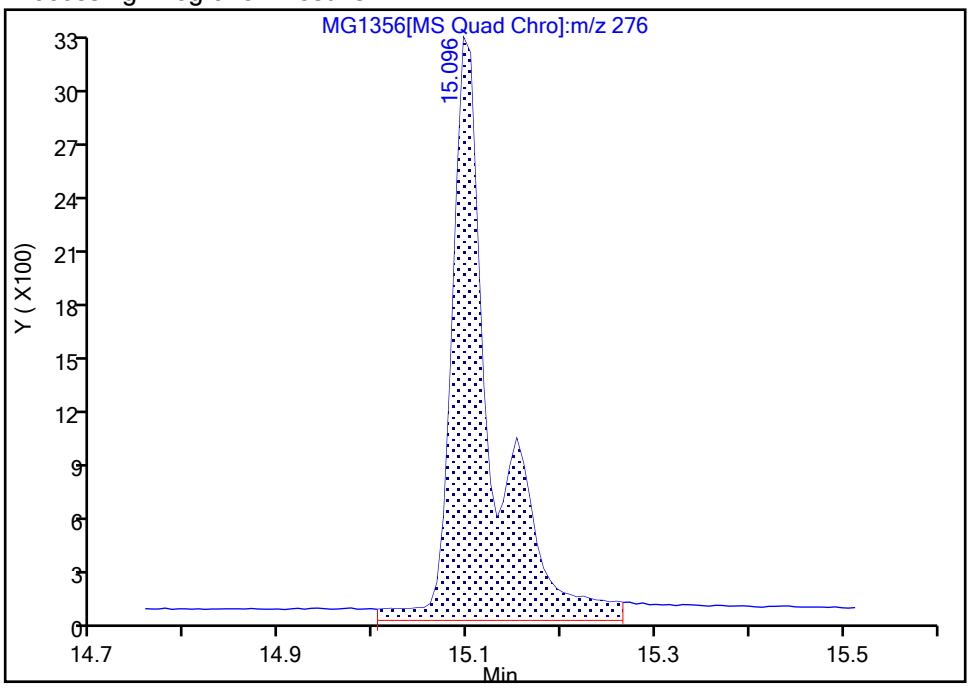
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20220728-62933.b\MG1356.D				
Injection Date:	28-Jul-2022 21:32:00	Instrument ID:	HP21585		
Lims ID:	IC L1				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

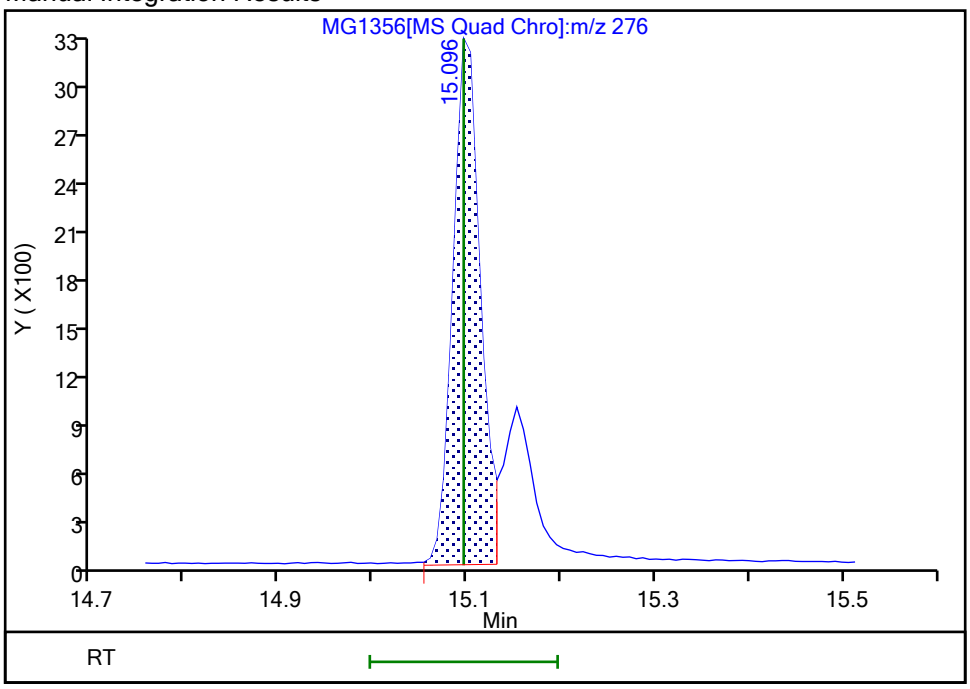
Processing Integration Results

RT: 15.10
Area: 9787
Amount: 0.013892
Amount Units: ug/ml



Manual Integration Results

RT: 15.10
Area: 6489
Amount: 0.009990
Amount Units: ug/ml



Reviewer: UJM0, 29-Jul-2022 06:40:53

Audit Action: Manually Integrated Audit Reason: Baseline

Calibration / 1,4-Dioxane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

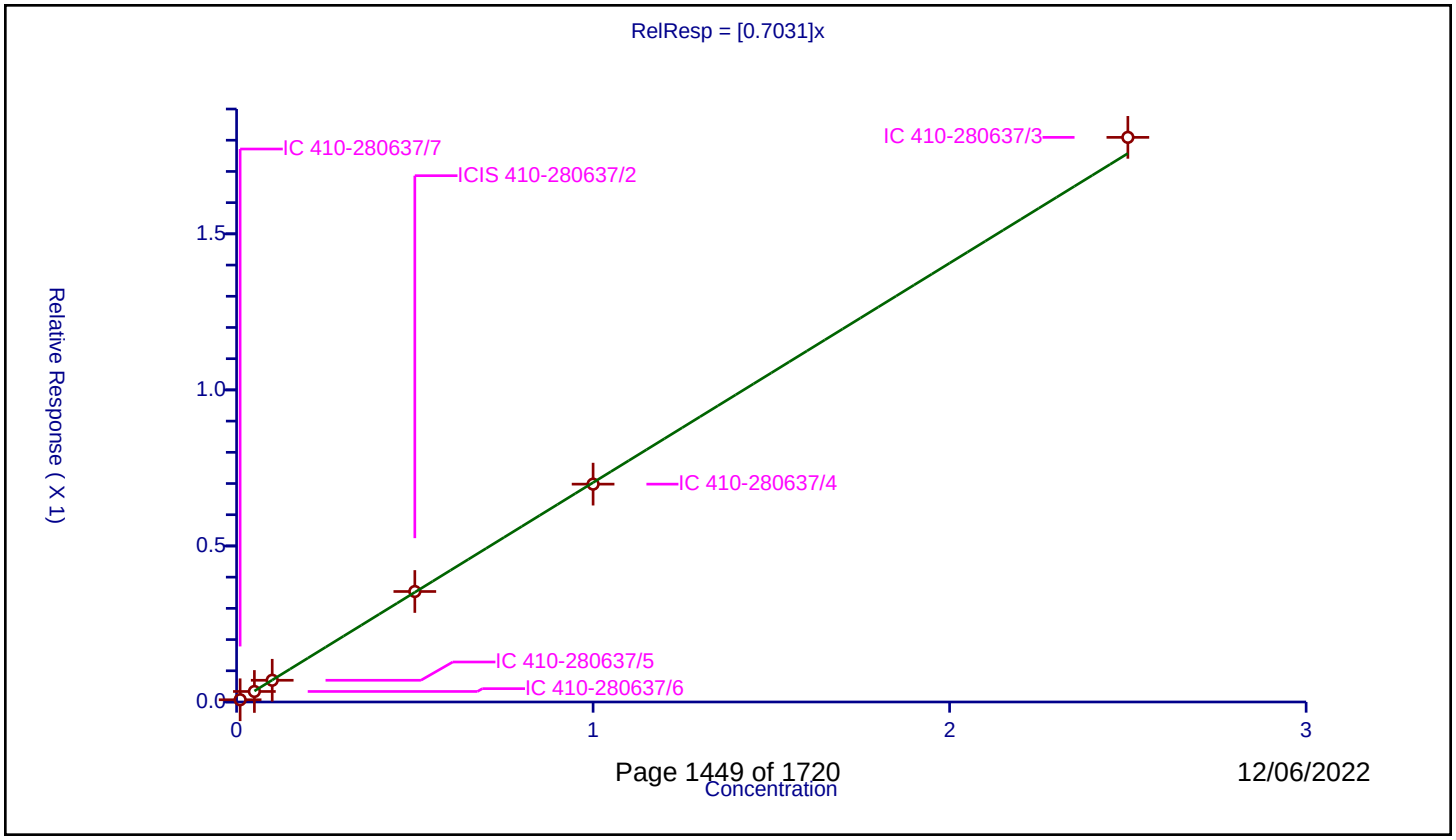
Curve Coefficients

Intercept:	0
Slope:	0.7031

Error Coefficients

Standard Error:	238000
Relative Standard Error:	2.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-280637/7	0.01	0.007175	0.25	67283.0	0.717492	Y
2	IC 410-280637/6	0.05	0.033744	0.25	67524.0	0.674871	Y
3	IC 410-280637/5	0.1	0.069631	0.25	68946.0	0.696306	Y
4	ICIS 410-280637/2	0.5	0.354056	0.25	62721.0	0.708112	Y
5	IC 410-280637/4	1.0	0.698071	0.25	67871.0	0.698071	Y
6	IC 410-280637/3	2.5	1.809187	0.25	67460.0	0.723675	Y



Calibration / N-Nitrosodimethylamine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

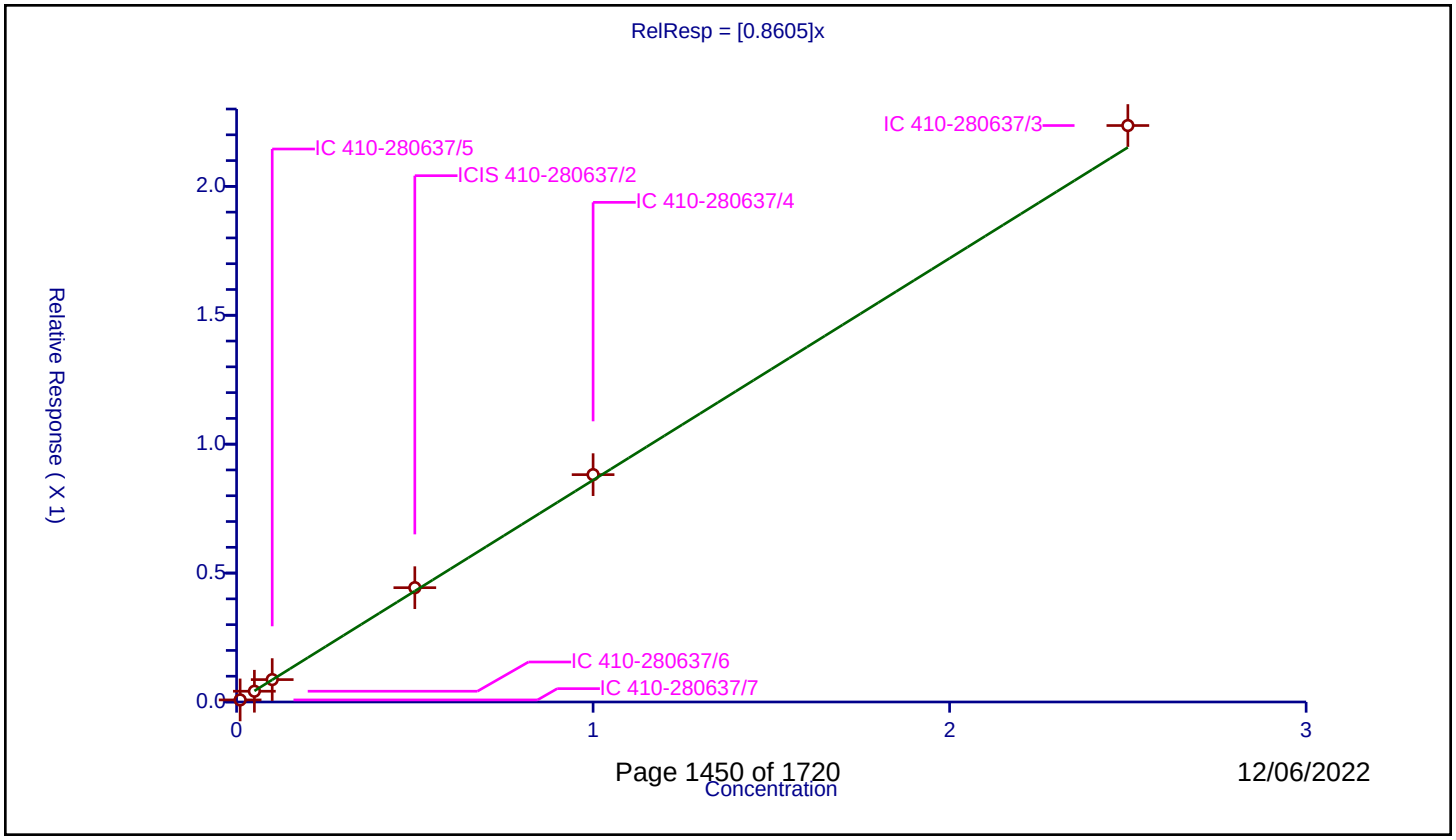
Curve Coefficients

Intercept:	0
Slope:	0.8605

Error Coefficients

Standard Error:	295000
Relative Standard Error:	4.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-280637/7	0.01	0.007974	0.25	67283.0	0.797378	Y
2	IC 410-280637/6	0.05	0.041715	0.25	67524.0	0.834296	Y
3	IC 410-280637/5	0.1	0.086847	0.25	68946.0	0.86847	Y
4	ICIS 410-280637/2	0.5	0.443376	0.25	62721.0	0.886752	Y
5	IC 410-280637/4	1.0	0.881868	0.25	67871.0	0.881868	Y
6	IC 410-280637/3	2.5	2.235925	0.25	67460.0	0.89437	Y



Calibration / Bis(2-chloroethyl)ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

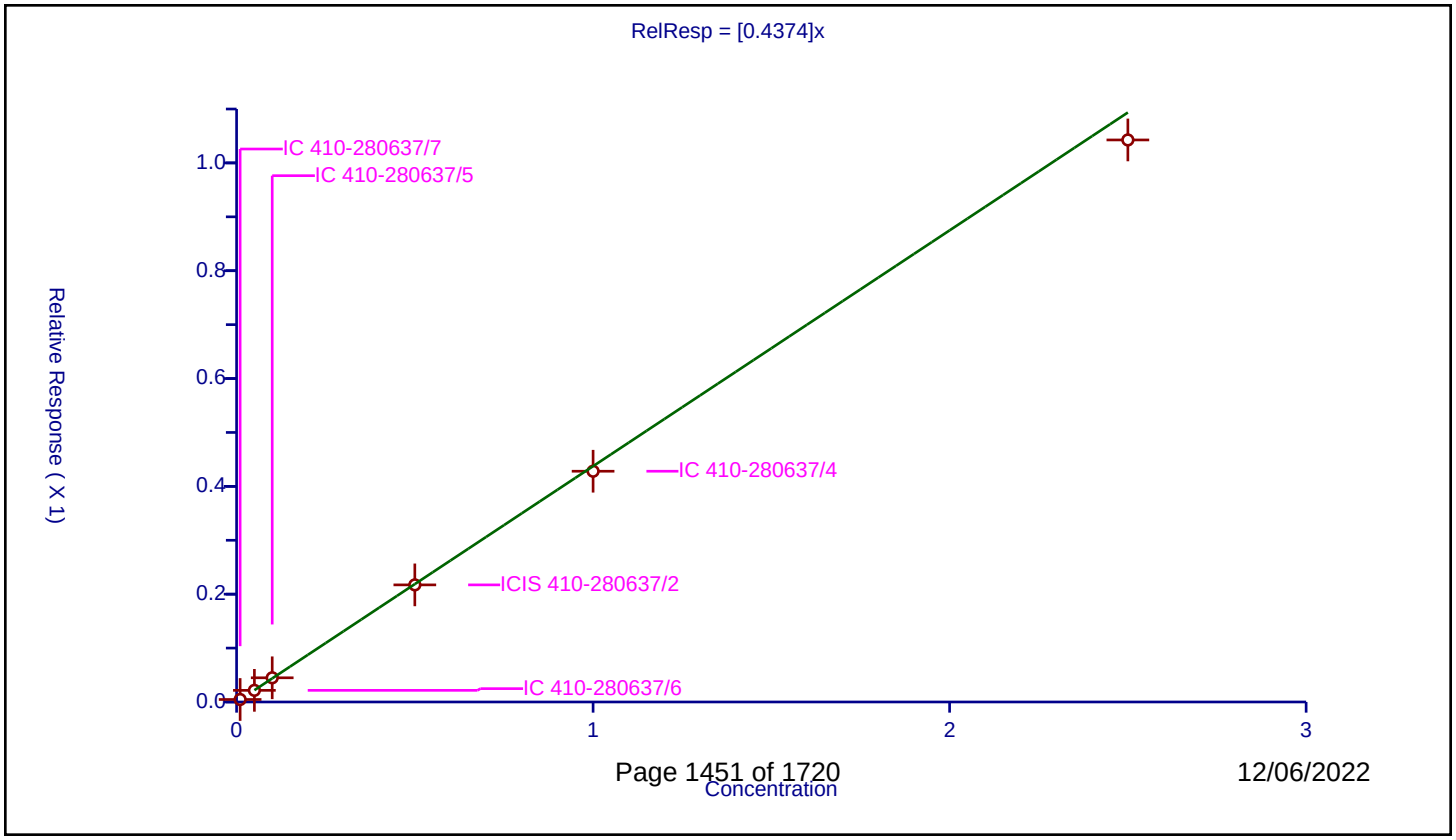
Curve Coefficients

Intercept:	0
Slope:	0.4374

Error Coefficients

Standard Error:	503000
Relative Standard Error:	3.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-280637/7	0.01	0.004645	0.25	232565.0	0.464494	Y
2	IC 410-280637/6	0.05	0.021588	0.25	231624.0	0.431756	Y
3	IC 410-280637/5	0.1	0.044874	0.25	234066.0	0.448741	Y
4	ICIS 410-280637/2	0.5	0.217228	0.25	222361.0	0.434456	Y
5	IC 410-280637/4	1.0	0.42809	0.25	241273.0	0.42809	Y
6	IC 410-280637/3	2.5	1.042604	0.25	246308.0	0.417042	Y



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

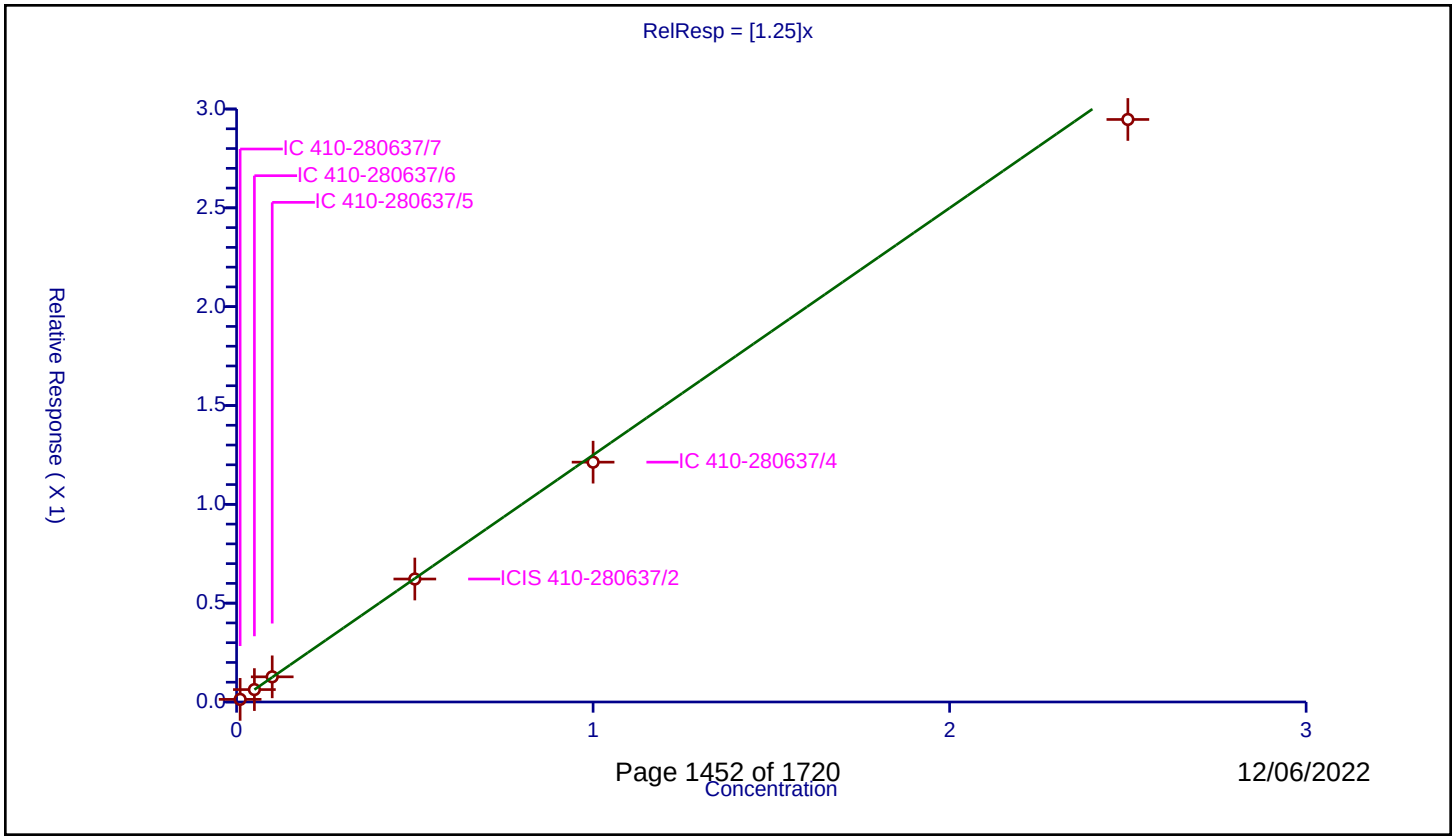
Curve Coefficients

Intercept:	0
Slope:	1.25

Error Coefficients

Standard Error:	1420000
Relative Standard Error:	4.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-280637/7	0.01	0.013329	0.25	232565.0	1.332853	Y
2	IC 410-280637/6	0.05	0.062791	0.25	231624.0	1.255828	Y
3	IC 410-280637/5	0.1	0.127237	0.25	234066.0	1.272365	Y
4	ICIS 410-280637/2	0.5	0.622102	0.25	222361.0	1.244204	Y
5	IC 410-280637/4	1.0	1.213383	0.25	241273.0	1.213383	Y
6	IC 410-280637/3	2.5	2.947137	0.25	246308.0	1.178855	Y



Calibration / Quinoline

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

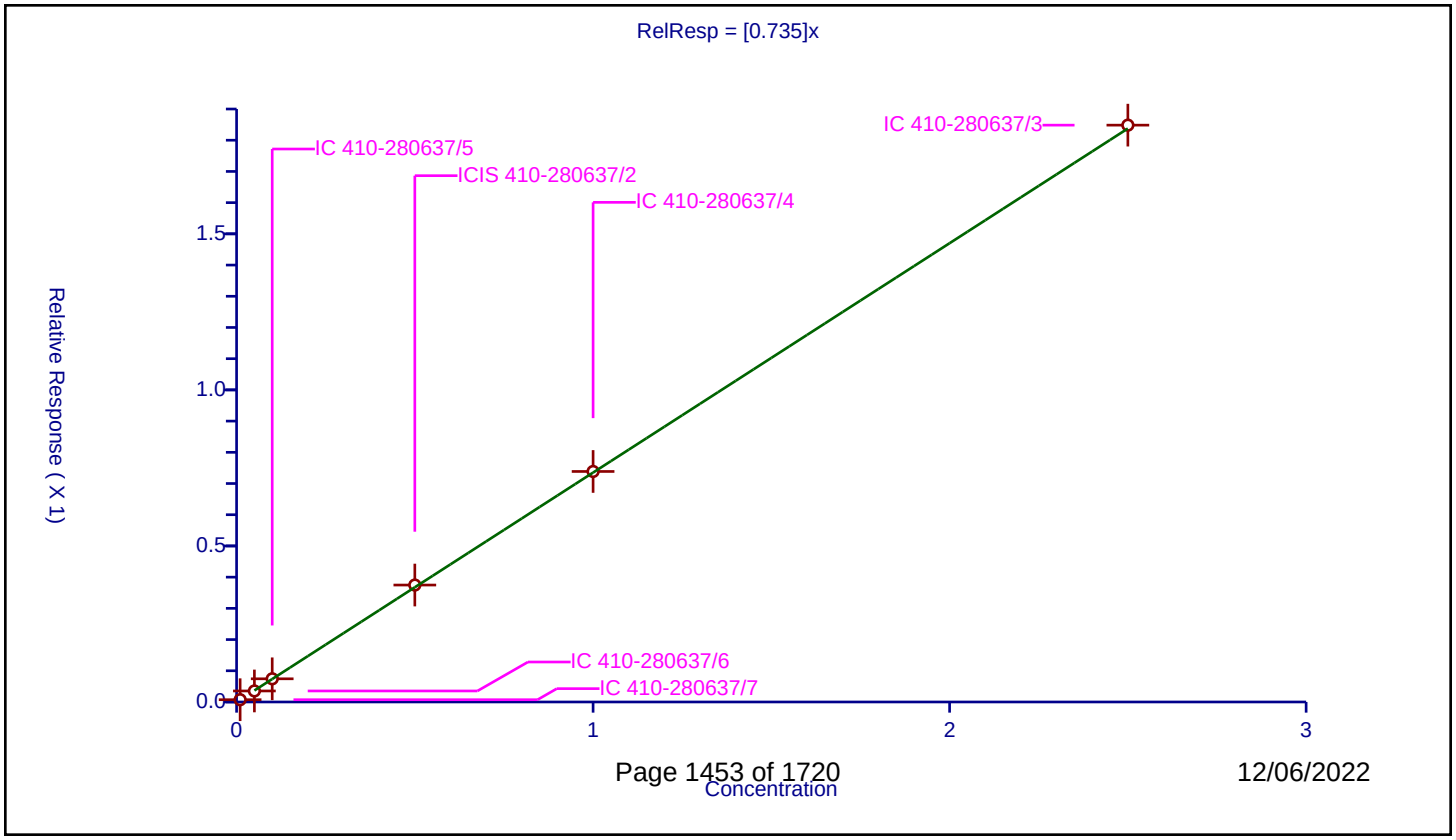
Curve Coefficients

Intercept:	0
Slope:	0.735

Error Coefficients

Standard Error:	888000
Relative Standard Error:	2.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-280637/7	0.01	0.007337	0.25	232565.0	0.733666	Y
2	IC 410-280637/6	0.05	0.035304	0.25	231624.0	0.70608	Y
3	IC 410-280637/5	0.1	0.074302	0.25	234066.0	0.743017	Y
4	ICIS 410-280637/2	0.5	0.374742	0.25	222361.0	0.749484	Y
5	IC 410-280637/4	1.0	0.738609	0.25	241273.0	0.738609	Y
6	IC 410-280637/3	2.5	1.848288	0.25	246308.0	0.739315	Y



Calibration / 2-Methylnaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

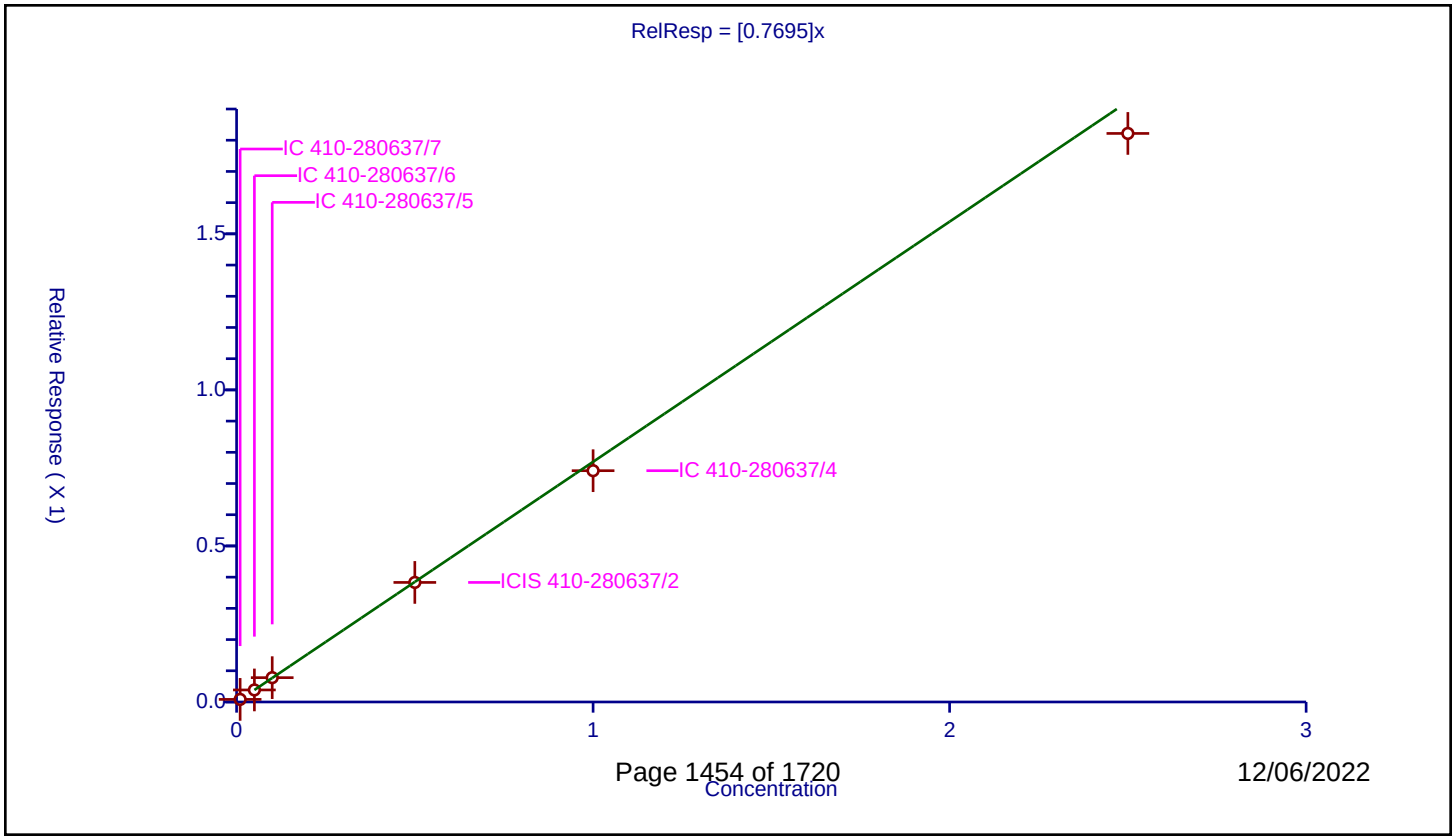
Curve Coefficients

Intercept:	0
Slope:	0.7695

Error Coefficients

Standard Error:	878000
Relative Standard Error:	4.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-280637/7	0.01	0.008294	0.25	232565.0	0.829446	Y
2	IC 410-280637/6	0.05	0.038613	0.25	231624.0	0.772265	Y
3	IC 410-280637/5	0.1	0.077949	0.25	234066.0	0.779492	Y
4	ICIS 410-280637/2	0.5	0.383134	0.25	222361.0	0.766267	Y
5	IC 410-280637/4	1.0	0.741093	0.25	241273.0	0.741093	Y
6	IC 410-280637/3	2.5	1.821754	0.25	246308.0	0.728701	Y



Calibration / 1-Methylnaphthalene-d10

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

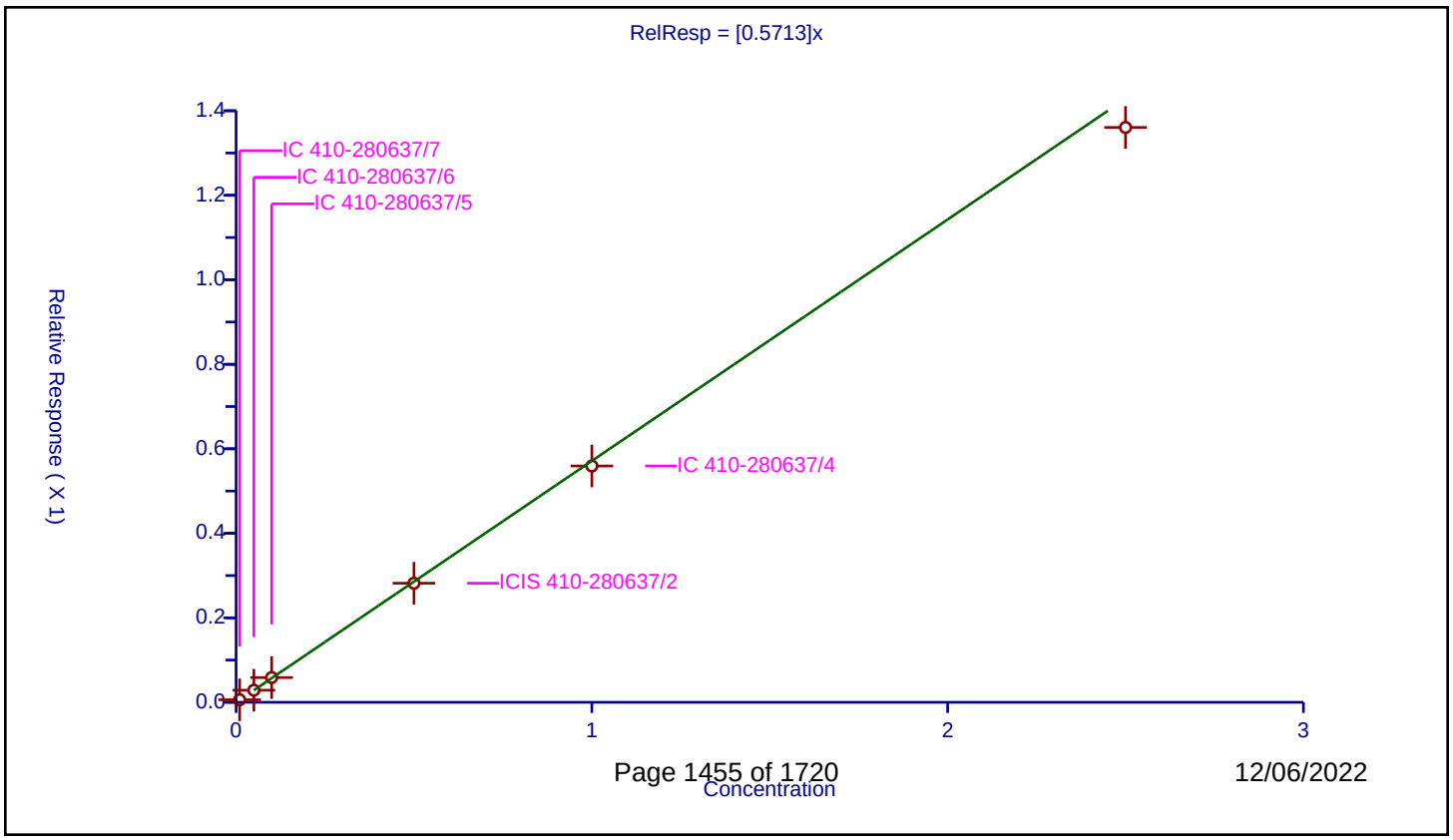
Curve Coefficients

Intercept:	0
Slope:	0.5713

Error Coefficients

Standard Error:	656000
Relative Standard Error:	3.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-280637/7	0.01	0.006031	0.25	232565.0	0.603057	Y
2	IC 410-280637/6	0.05	0.028588	0.25	231624.0	0.571767	Y
3	IC 410-280637/5	0.1	0.058592	0.25	234066.0	0.585924	Y
4	ICIS 410-280637/2	0.5	0.281827	0.25	222361.0	0.563653	Y
5	IC 410-280637/4	1.0	0.559308	0.25	241273.0	0.559308	Y
6	IC 410-280637/3	2.5	1.360467	0.25	246308.0	0.544187	Y



Calibration / 1-Methylnaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

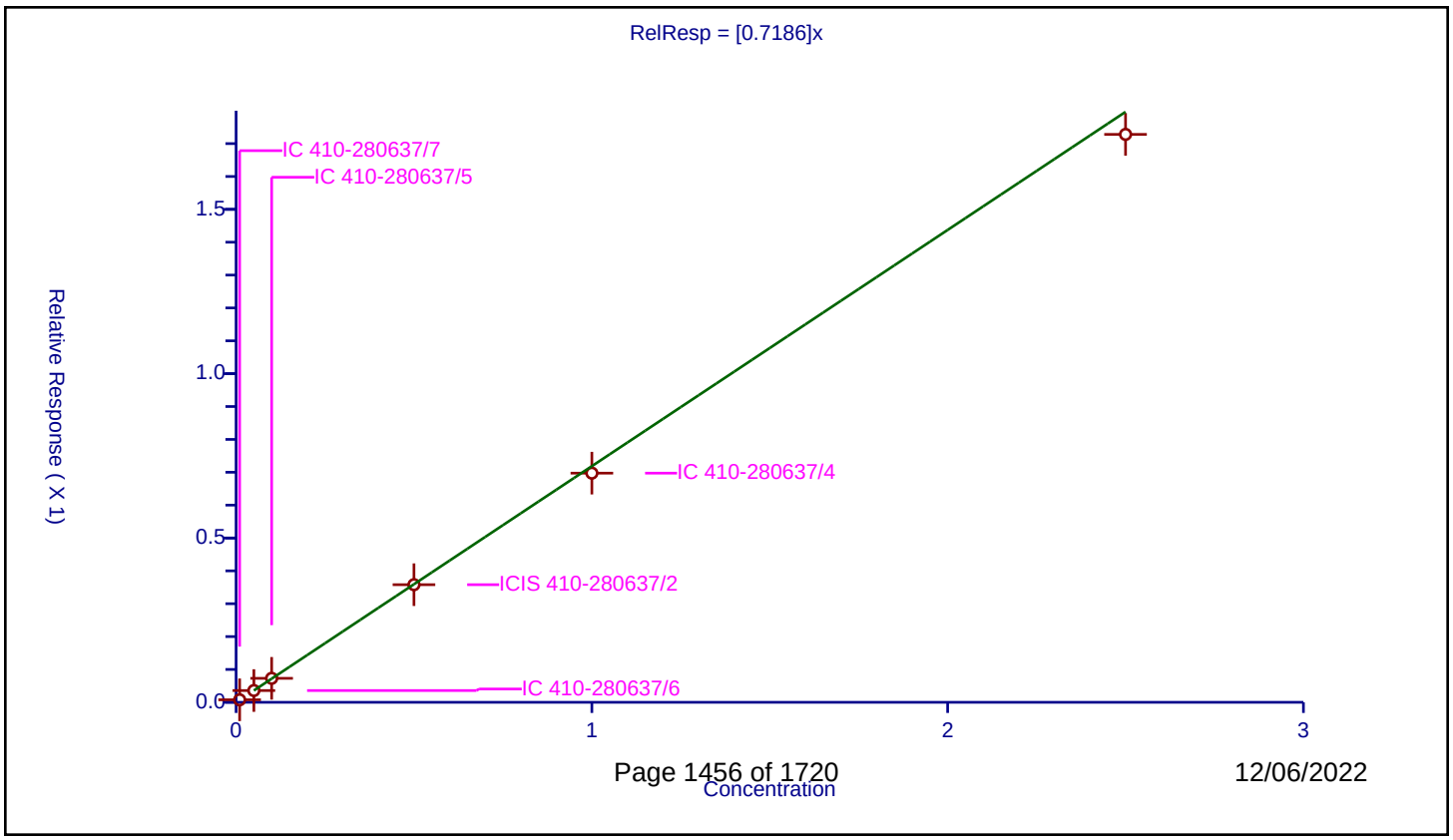
Curve Coefficients

Intercept:	0
Slope:	0.7186

Error Coefficients

Standard Error:	832000
Relative Standard Error:	3.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-280637/7	0.01	0.007613	0.25	232565.0	0.761293	Y
2	IC 410-280637/6	0.05	0.035811	0.25	231624.0	0.716225	Y
3	IC 410-280637/5	0.1	0.072984	0.25	234066.0	0.729837	Y
4	ICIS 410-280637/2	0.5	0.357935	0.25	222361.0	0.71587	Y
5	IC 410-280637/4	1.0	0.697345	0.25	241273.0	0.697345	Y
6	IC 410-280637/3	2.5	1.728062	0.25	246308.0	0.691225	Y



Calibration / Dimethyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

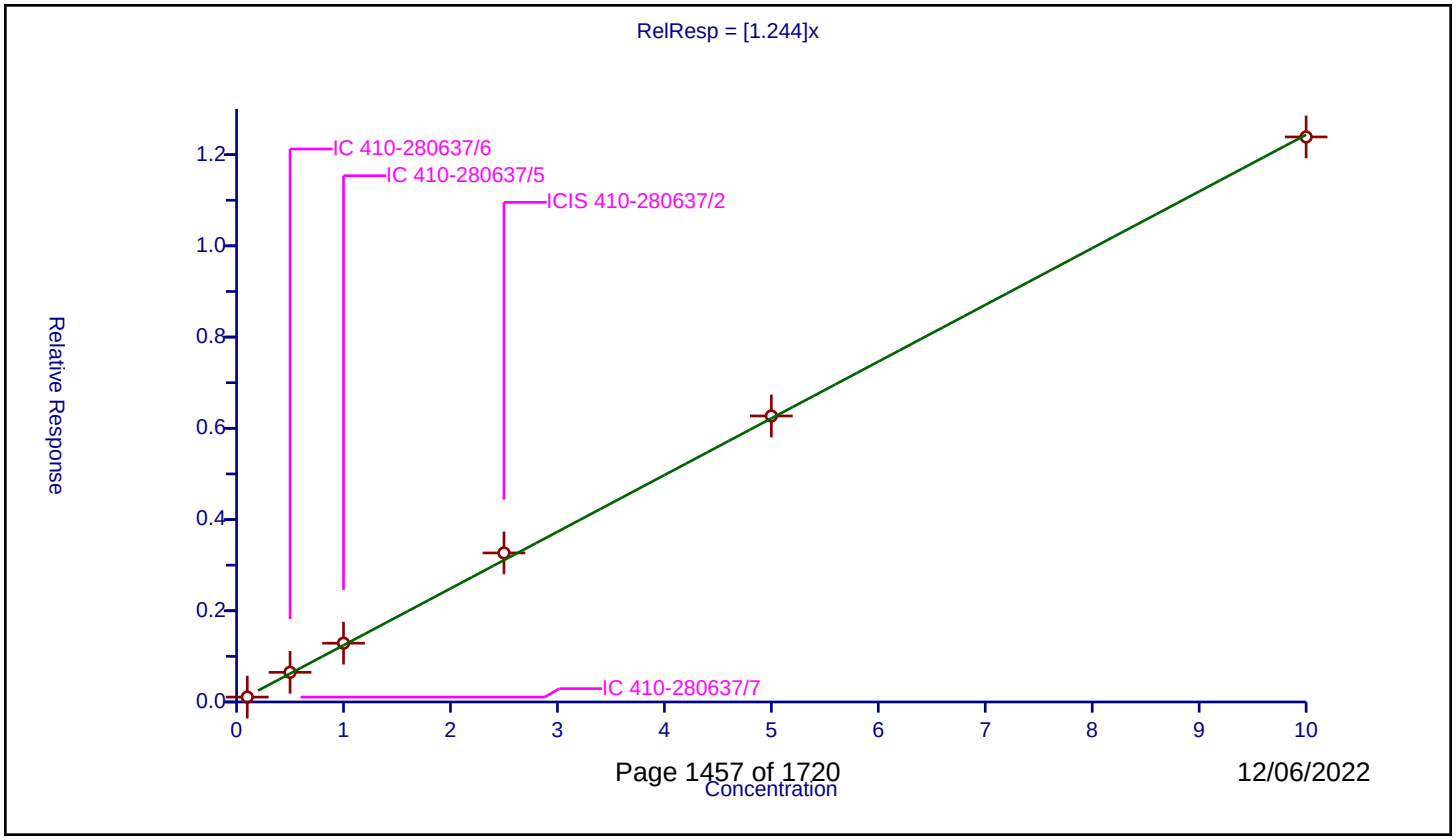
Curve Coefficients

Intercept:	0
Slope:	1.244

Error Coefficients

Standard Error:	3380000
Relative Standard Error:	7.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-280637/7	0.1	0.107239	0.25	125570.0	1.07239	Y
2	IC 410-280637/6	0.5	0.65018	0.25	128291.0	1.30036	Y
3	IC 410-280637/5	1.0	1.289045	0.25	131630.0	1.289045	Y
4	ICIS 410-280637/2	2.5	3.267557	0.25	120364.0	1.307023	Y
5	IC 410-280637/4	5.0	6.270454	0.25	135135.0	1.254091	Y
6	IC 410-280637/3	10.0	12.387608	0.25	131849.0	1.238761	Y



Calibration / Acenaphthylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

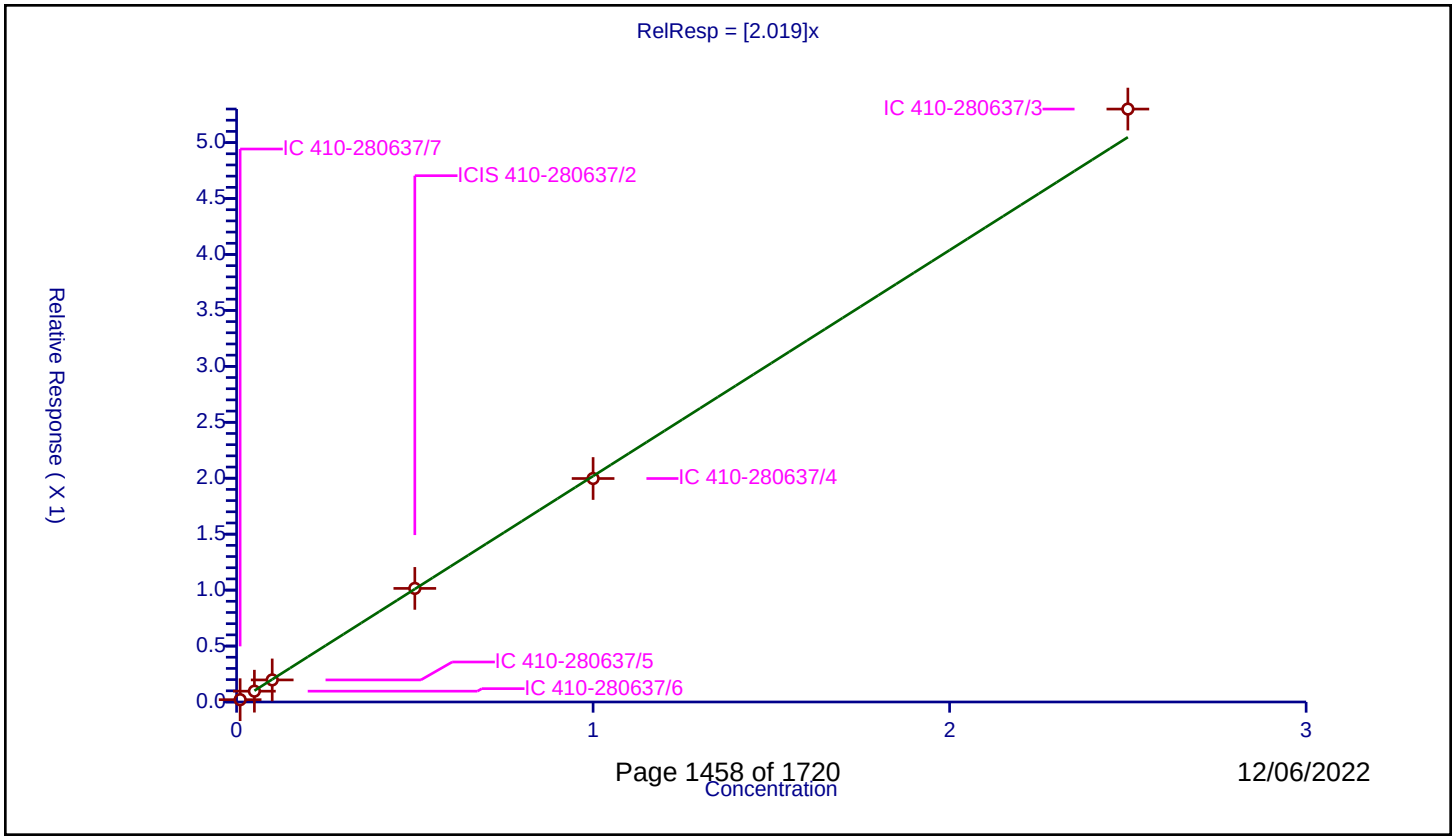
Curve Coefficients

Intercept:	0
Slope:	2.019

Error Coefficients

Standard Error:	1360000
Relative Standard Error:	3.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-280637/7	0.01	0.020606	0.25	125570.0	2.060604	Y
2	IC 410-280637/6	0.05	0.096714	0.25	128291.0	1.934274	Y
3	IC 410-280637/5	0.1	0.197309	0.25	131630.0	1.973087	Y
4	ICIS 410-280637/2	0.5	1.015208	0.25	120364.0	2.030416	Y
5	IC 410-280637/4	1.0	1.997419	0.25	135135.0	1.997419	Y
6	IC 410-280637/3	2.5	5.299564	0.25	131849.0	2.119826	Y



Calibration / Acenaphthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

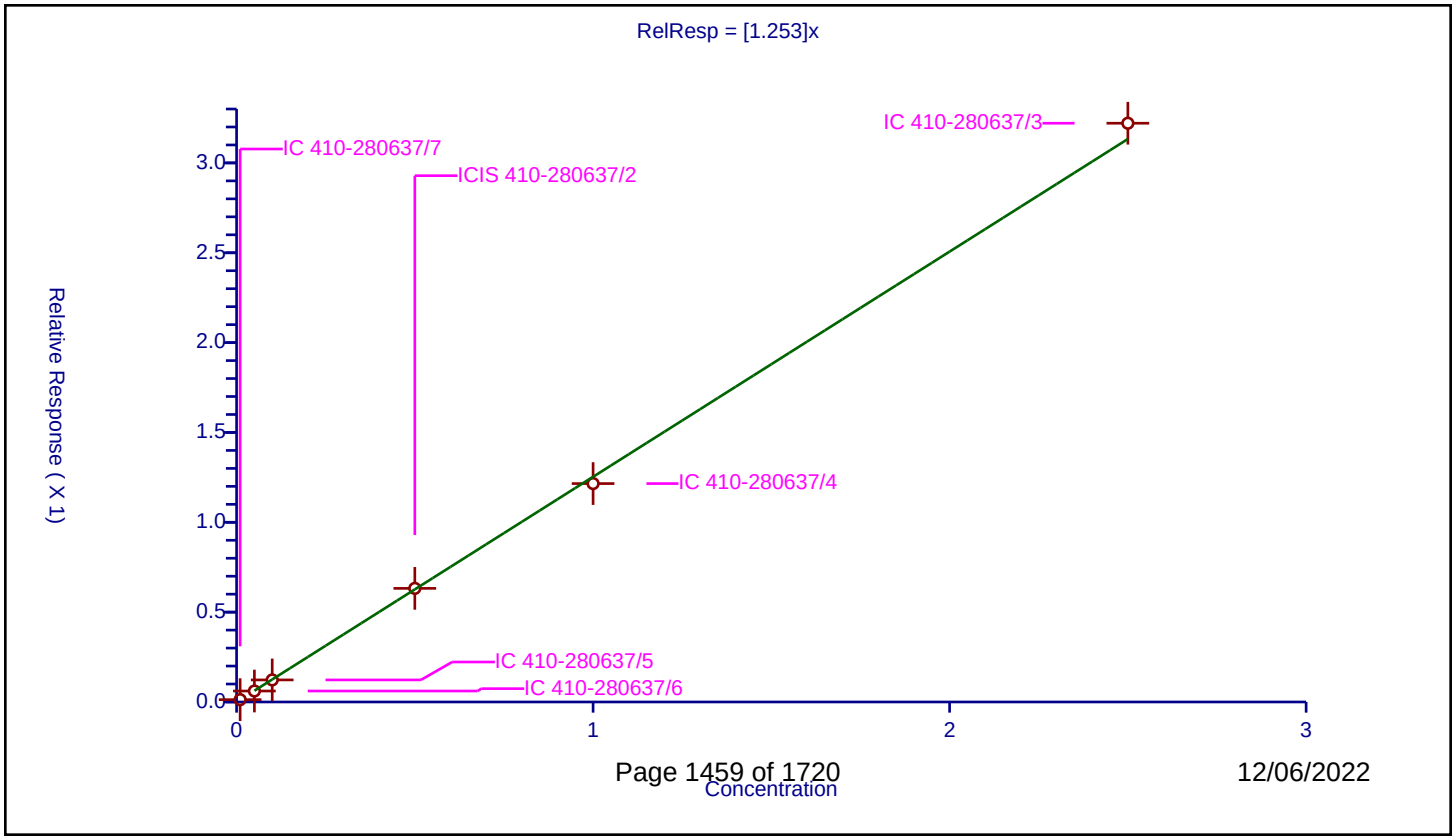
Curve Coefficients

Intercept:	0
Slope:	1.253

Error Coefficients

Standard Error:	826000
Relative Standard Error:	2.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-280637/7	0.01	0.013005	0.25	125570.0	1.30047	Y
2	IC 410-280637/6	0.05	0.06114	0.25	128291.0	1.222806	Y
3	IC 410-280637/5	0.1	0.122763	0.25	131630.0	1.227627	Y
4	ICIS 410-280637/2	0.5	0.632236	0.25	120364.0	1.264473	Y
5	IC 410-280637/4	1.0	1.215529	0.25	135135.0	1.215529	Y
6	IC 410-280637/3	2.5	3.22094	0.25	131849.0	1.288376	Y



Calibration / Dibenzofuran

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

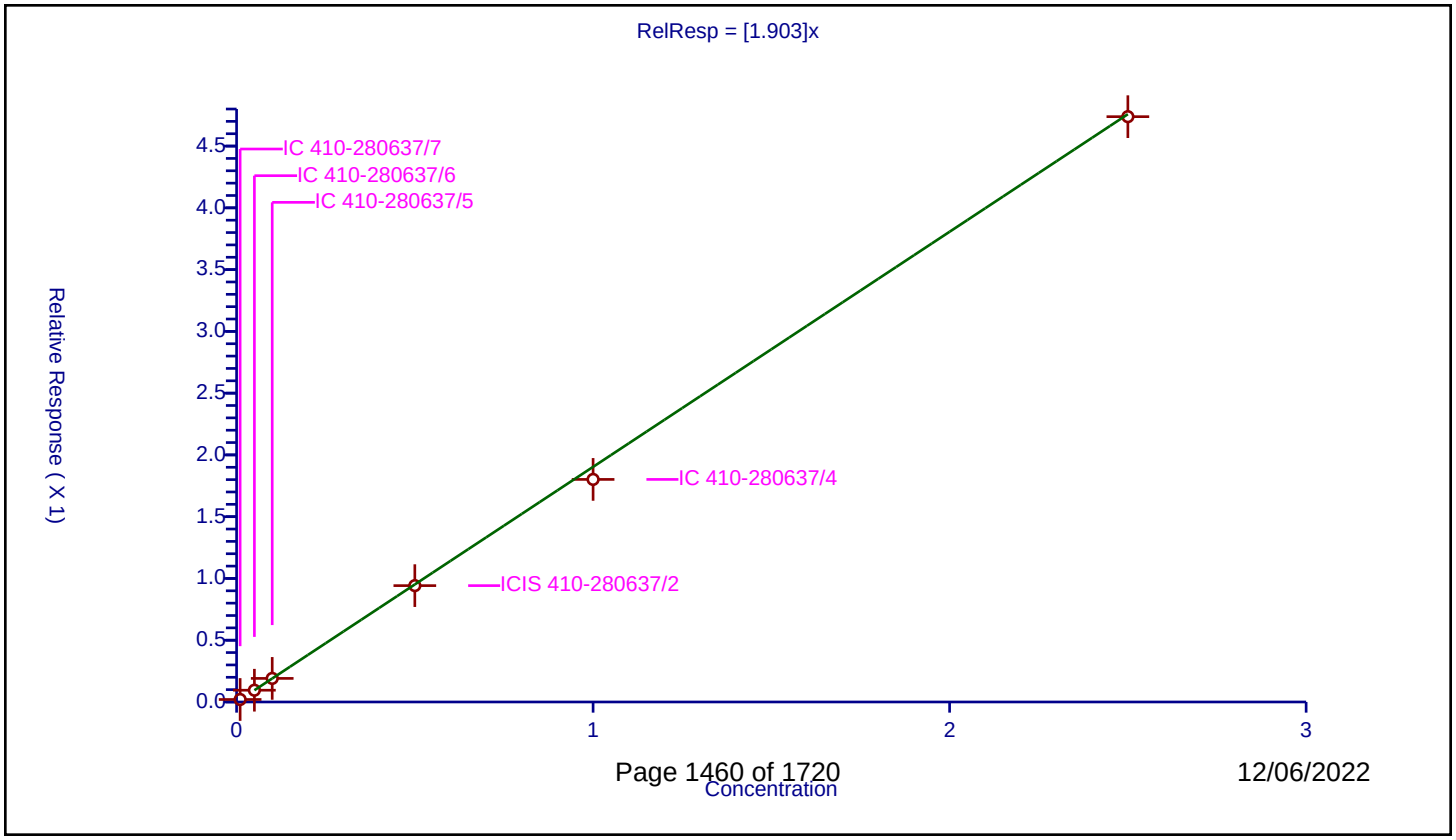
Curve Coefficients

Intercept:	0
Slope:	1.903

Error Coefficients

Standard Error:	1220000
Relative Standard Error:	3.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-280637/7	0.01	0.020238	0.25	125570.0	2.023772	Y
2	IC 410-280637/6	0.05	0.095254	0.25	128291.0	1.905083	Y
3	IC 410-280637/5	0.1	0.190996	0.25	131630.0	1.909956	Y
4	ICIS 410-280637/2	0.5	0.941897	0.25	120364.0	1.883794	Y
5	IC 410-280637/4	1.0	1.801626	0.25	135135.0	1.801626	Y
6	IC 410-280637/3	2.5	4.738117	0.25	131849.0	1.895247	Y



Calibration / Diethyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

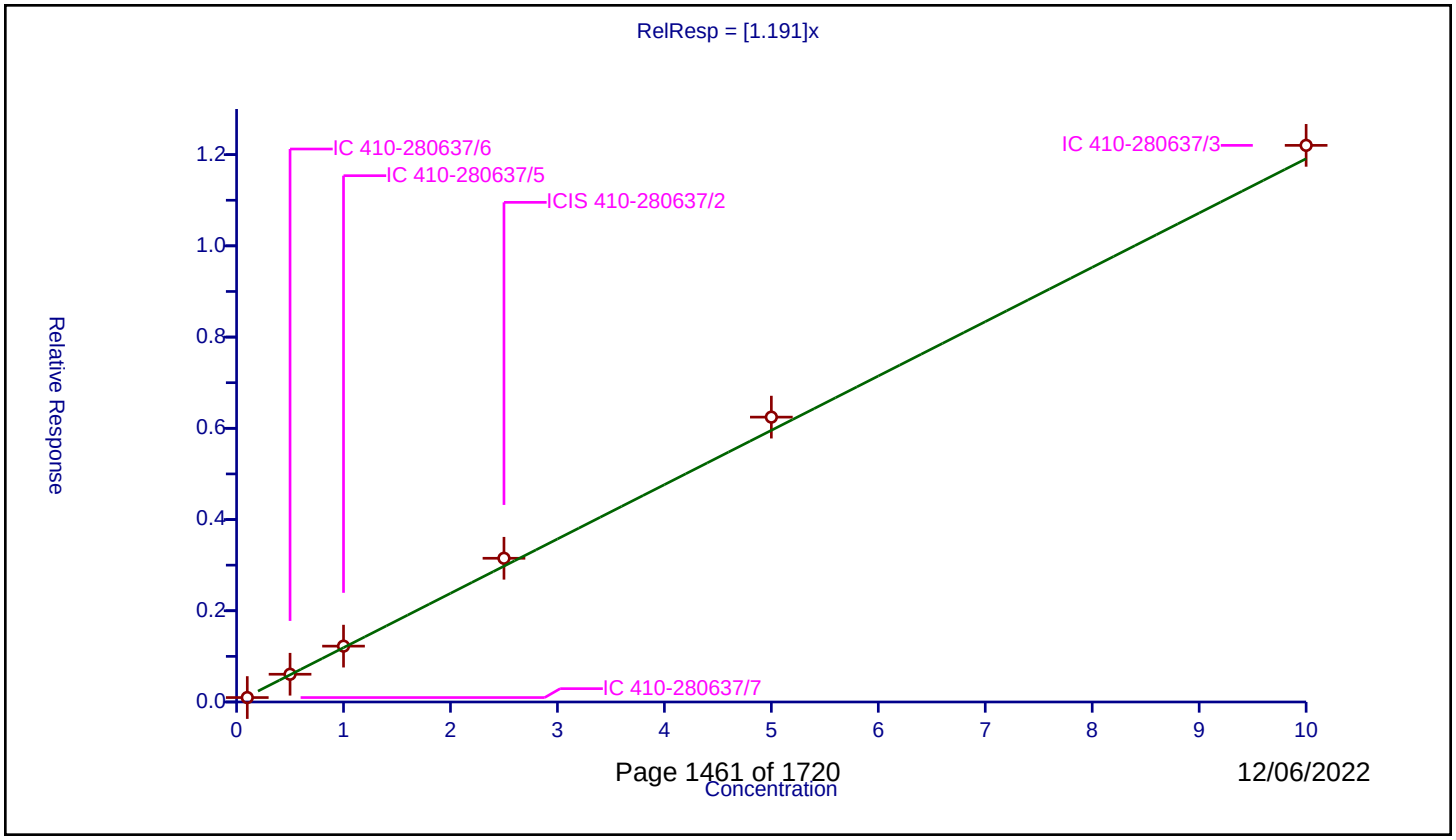
Curve Coefficients

Intercept:	0
Slope:	1.191

Error Coefficients

Standard Error:	3340000
Relative Standard Error:	9.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-280637/7	0.1	0.097609	0.25	125570.0	0.976089	Y
2	IC 410-280637/6	0.5	0.608205	0.25	128291.0	1.21641	Y
3	IC 410-280637/5	1.0	1.224432	0.25	131630.0	1.224432	Y
4	ICIS 410-280637/2	2.5	3.150919	0.25	120364.0	1.260368	Y
5	IC 410-280637/4	5.0	6.245188	0.25	135135.0	1.249038	Y
6	IC 410-280637/3	10.0	12.203416	0.25	131849.0	1.220342	Y



Calibration / Fluorene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

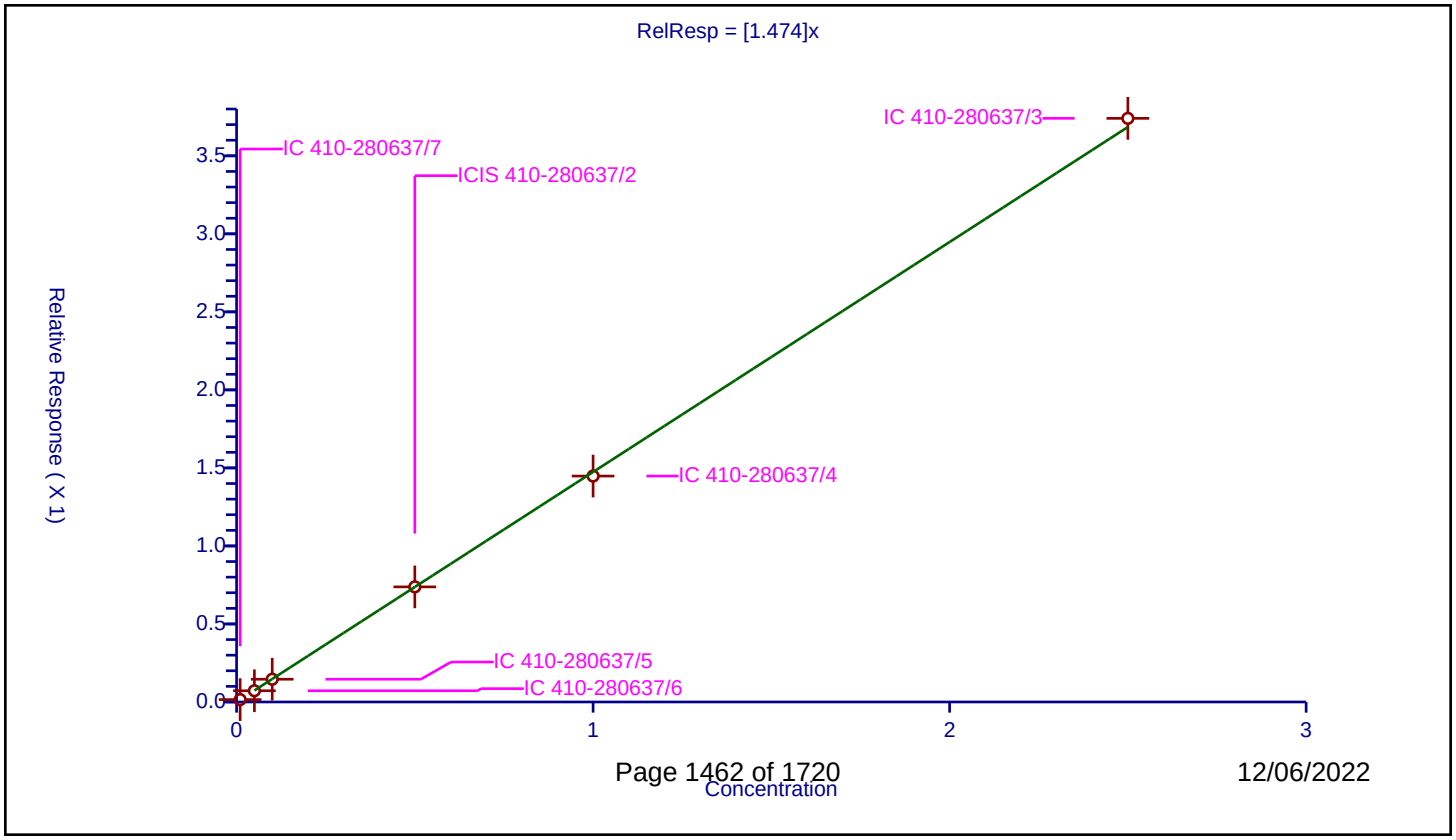
Curve Coefficients

Intercept:	0
Slope:	1.474

Error Coefficients

Standard Error:	963000
Relative Standard Error:	2.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-280637/7	0.01	0.015252	0.25	125570.0	1.525245	Y
2	IC 410-280637/6	0.05	0.071987	0.25	128291.0	1.439735	Y
3	IC 410-280637/5	0.1	0.145863	0.25	131630.0	1.458634	Y
4	ICIS 410-280637/2	0.5	0.737648	0.25	120364.0	1.475296	Y
5	IC 410-280637/4	1.0	1.447937	0.25	135135.0	1.447937	Y
6	IC 410-280637/3	2.5	3.740135	0.25	131849.0	1.496054	Y



Calibration / N-Nitrosodiphenylamine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

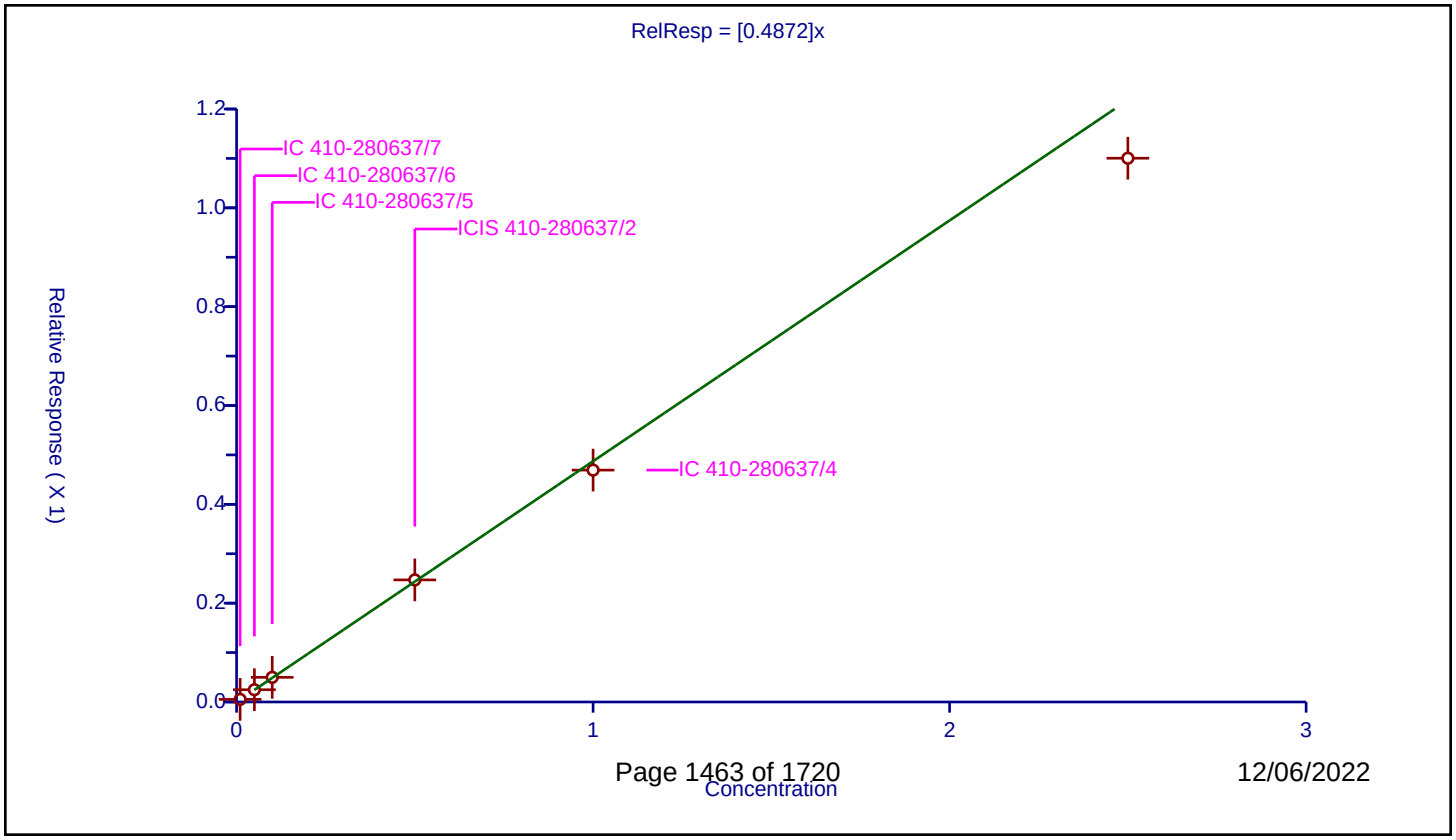
Curve Coefficients

Intercept:	0
Slope:	0.4872

Error Coefficients

Standard Error:	517000
Relative Standard Error:	6.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-280637/7	0.01	0.005247	0.25	222698.0	0.524702	Y
2	IC 410-280637/6	0.05	0.02482	0.25	230813.0	0.496398	Y
3	IC 410-280637/5	0.1	0.049876	0.25	233887.0	0.498756	Y
4	ICIS 410-280637/2	0.5	0.247089	0.25	218059.0	0.494178	Y
5	IC 410-280637/4	1.0	0.469229	0.25	240826.0	0.469229	Y
6	IC 410-280637/3	2.5	1.100445	0.25	236628.0	0.440178	Y



Calibration / Hexachlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

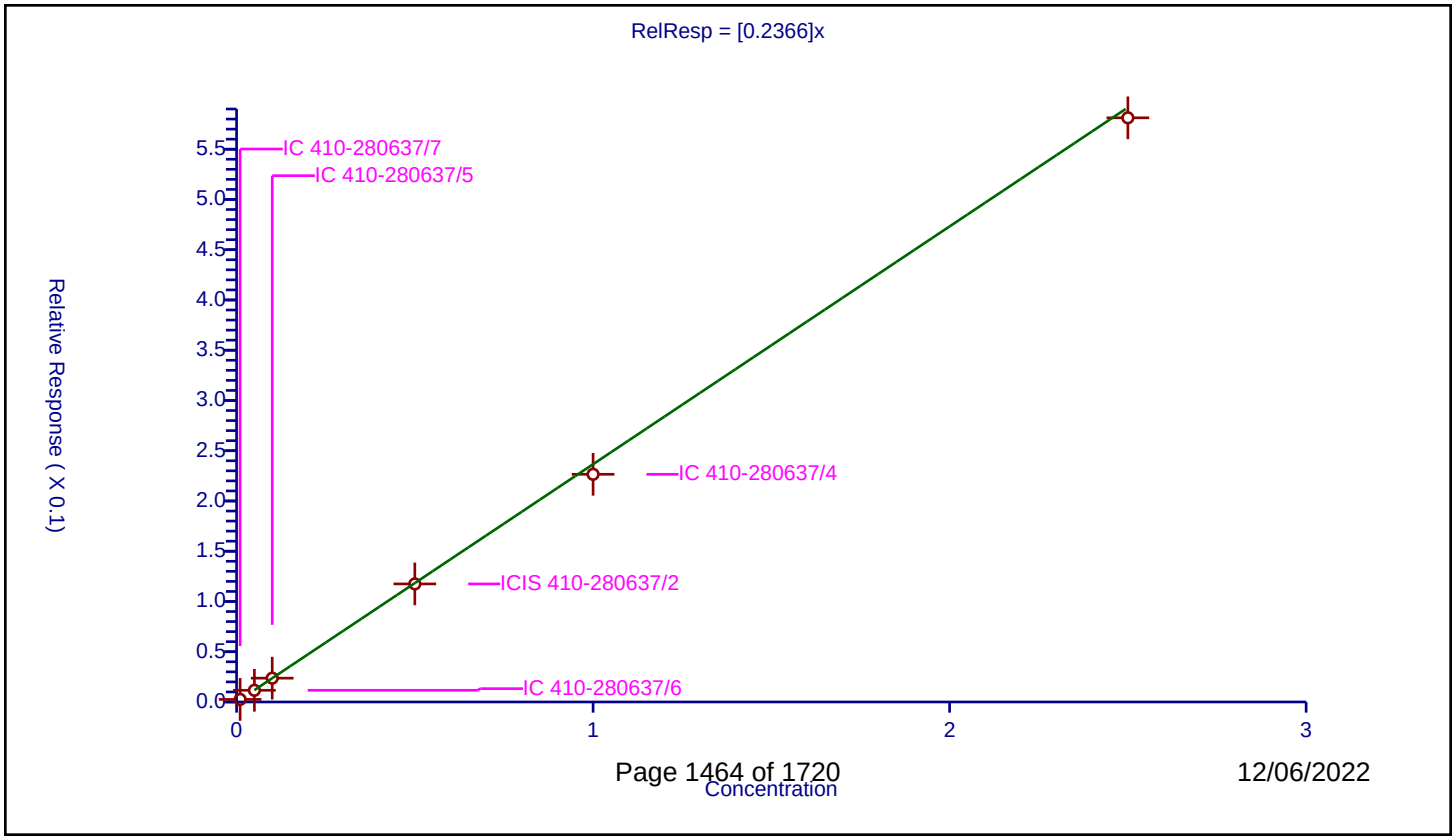
Curve Coefficients

Intercept:	0
Slope:	0.2366

Error Coefficients

Standard Error:	269000
Relative Standard Error:	4.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-280637/7	0.01	0.002556	0.25	222698.0	0.255615	Y
2	IC 410-280637/6	0.05	0.011647	0.25	230813.0	0.232937	Y
3	IC 410-280637/5	0.1	0.023697	0.25	233887.0	0.236973	Y
4	ICIS 410-280637/2	0.5	0.117484	0.25	218059.0	0.234969	Y
5	IC 410-280637/4	1.0	0.226561	0.25	240826.0	0.226561	Y
6	IC 410-280637/3	2.5	0.581246	0.25	236628.0	0.232498	Y



Calibration / Phenanthrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

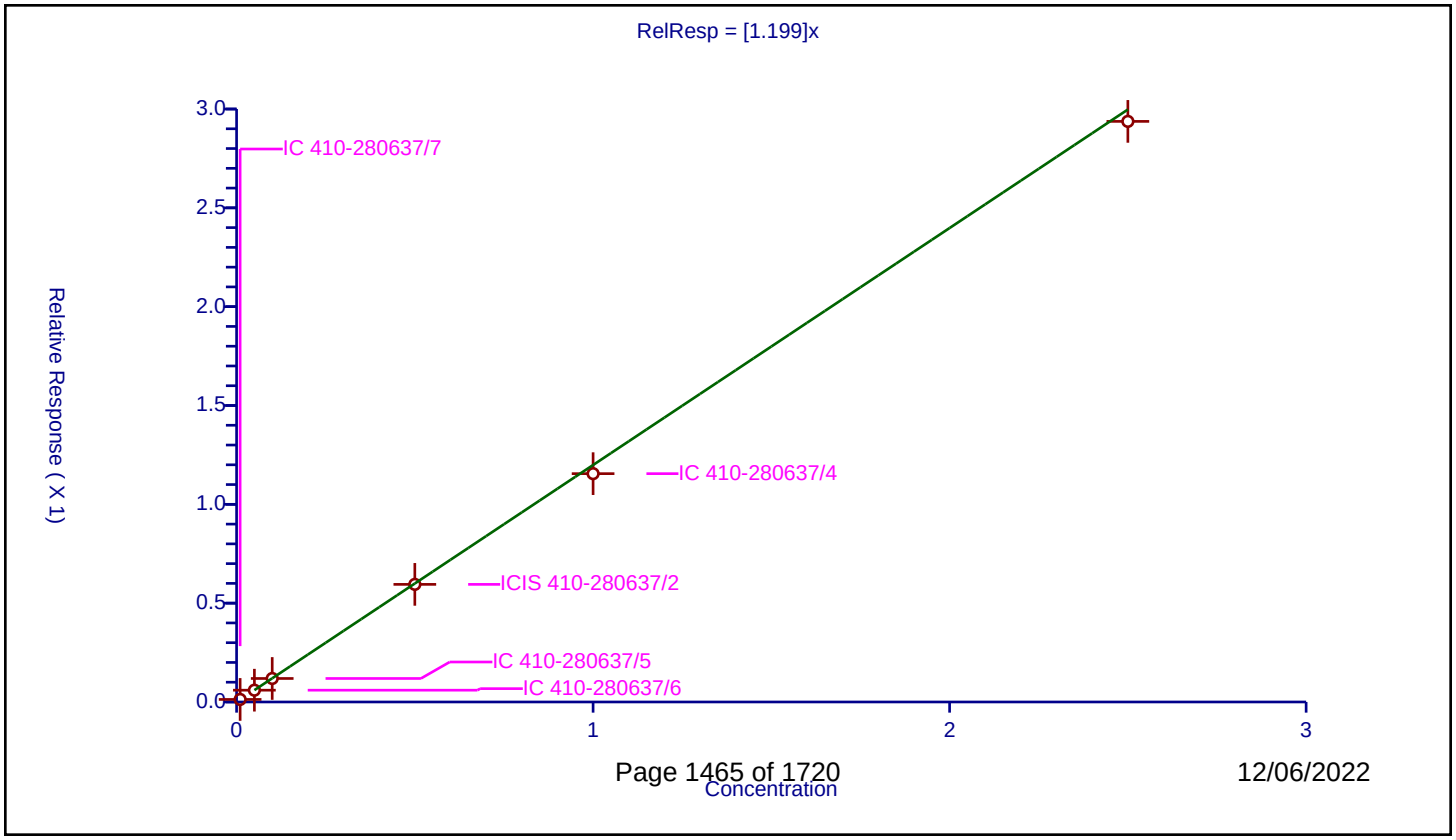
Curve Coefficients

Intercept:	0
Slope:	1.199

Error Coefficients

Standard Error:	1360000
Relative Standard Error:	4.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-280637/7	0.01	0.012918	0.25	222698.0	1.291772	Y
2	IC 410-280637/6	0.05	0.059659	0.25	230813.0	1.193174	Y
3	IC 410-280637/5	0.1	0.118869	0.25	233887.0	1.188694	Y
4	ICIS 410-280637/2	0.5	0.595026	0.25	218059.0	1.190052	Y
5	IC 410-280637/4	1.0	1.155185	0.25	240826.0	1.155185	Y
6	IC 410-280637/3	2.5	2.937377	0.25	236628.0	1.174951	Y



Calibration / Anthracene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

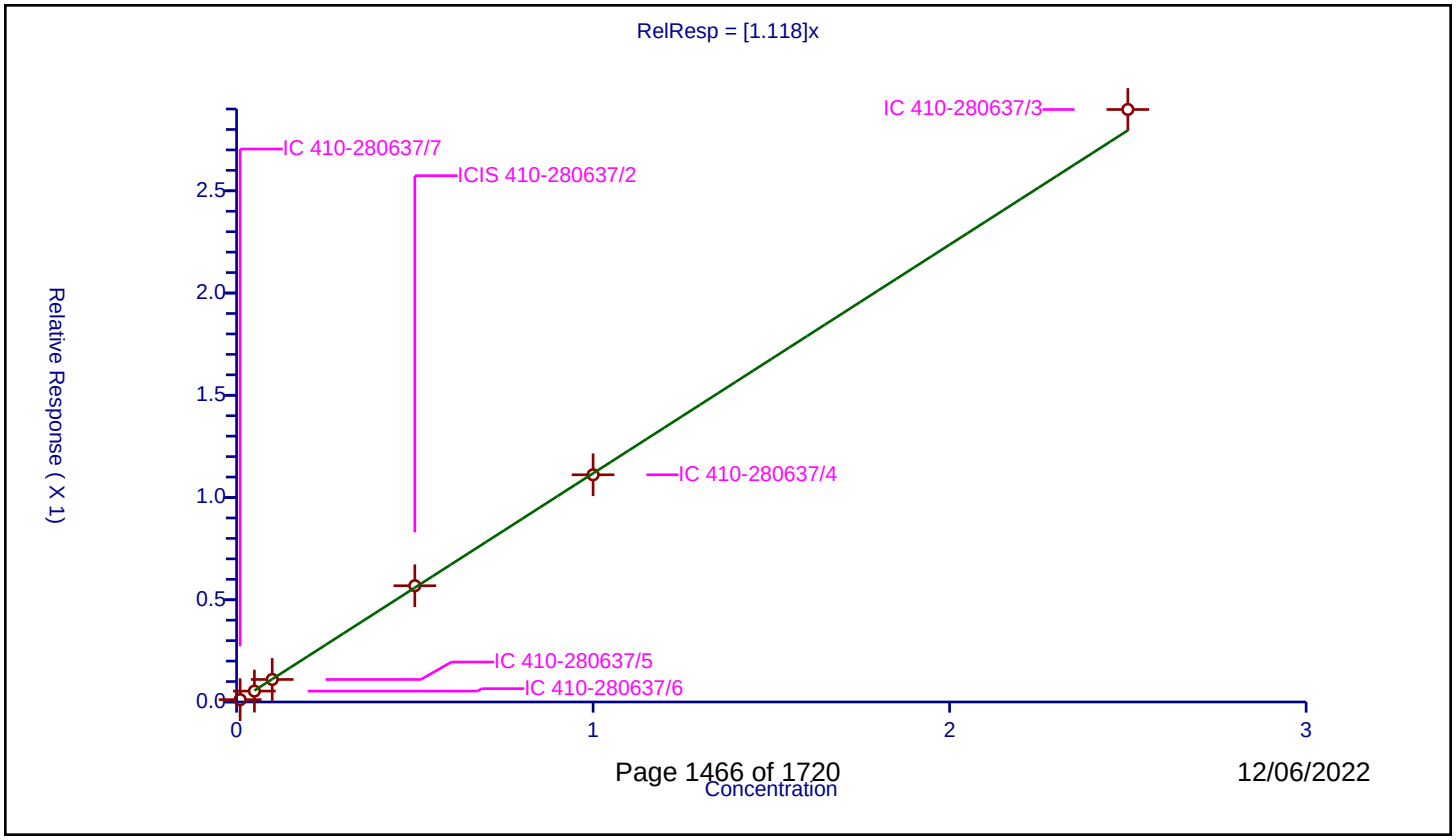
Curve Coefficients

Intercept:	0
Slope:	1.118

Error Coefficients

Standard Error:	1340000
Relative Standard Error:	2.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-280637/7	0.01	0.011346	0.25	222698.0	1.134608	Y
2	IC 410-280637/6	0.05	0.053317	0.25	230813.0	1.066339	Y
3	IC 410-280637/5	0.1	0.110122	0.25	233887.0	1.101216	Y
4	ICIS 410-280637/2	0.5	0.56857	0.25	218059.0	1.137139	Y
5	IC 410-280637/4	1.0	1.111194	0.25	240826.0	1.111194	Y
6	IC 410-280637/3	2.5	2.897698	0.25	236628.0	1.159079	Y



Calibration / Di-n-butyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

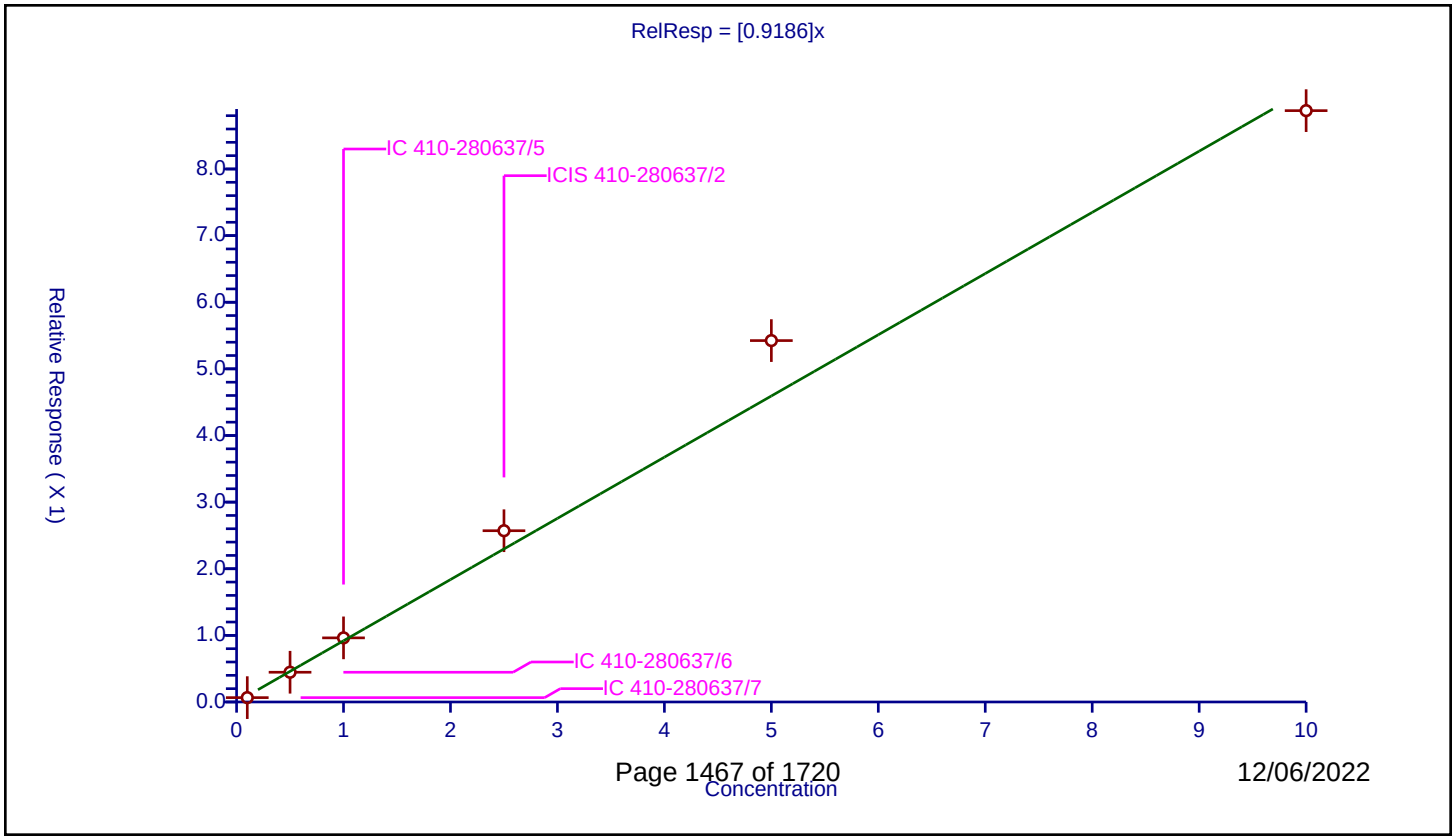
Curve Coefficients

Intercept:	0
Slope:	0.9186

Error Coefficients

Standard Error:	4560000
Relative Standard Error:	16.3
Correlation Coefficient:	0.985
Coefficient of Determination (Adjusted):	0.973

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-280637/7	0.1	0.065579	0.25	222698.0	0.655787	Y
2	IC 410-280637/6	0.5	0.446367	0.25	230813.0	0.892734	Y
3	IC 410-280637/5	1.0	0.962271	0.25	233887.0	0.962271	Y
4	ICIS 410-280637/2	2.5	2.570443	0.25	218059.0	1.028177	Y
5	IC 410-280637/4	5.0	5.424295	0.25	240826.0	1.084859	Y
6	IC 410-280637/3	10.0	8.875519	0.25	236628.0	0.887552	Y



Calibration / Fluoranthene-d10 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

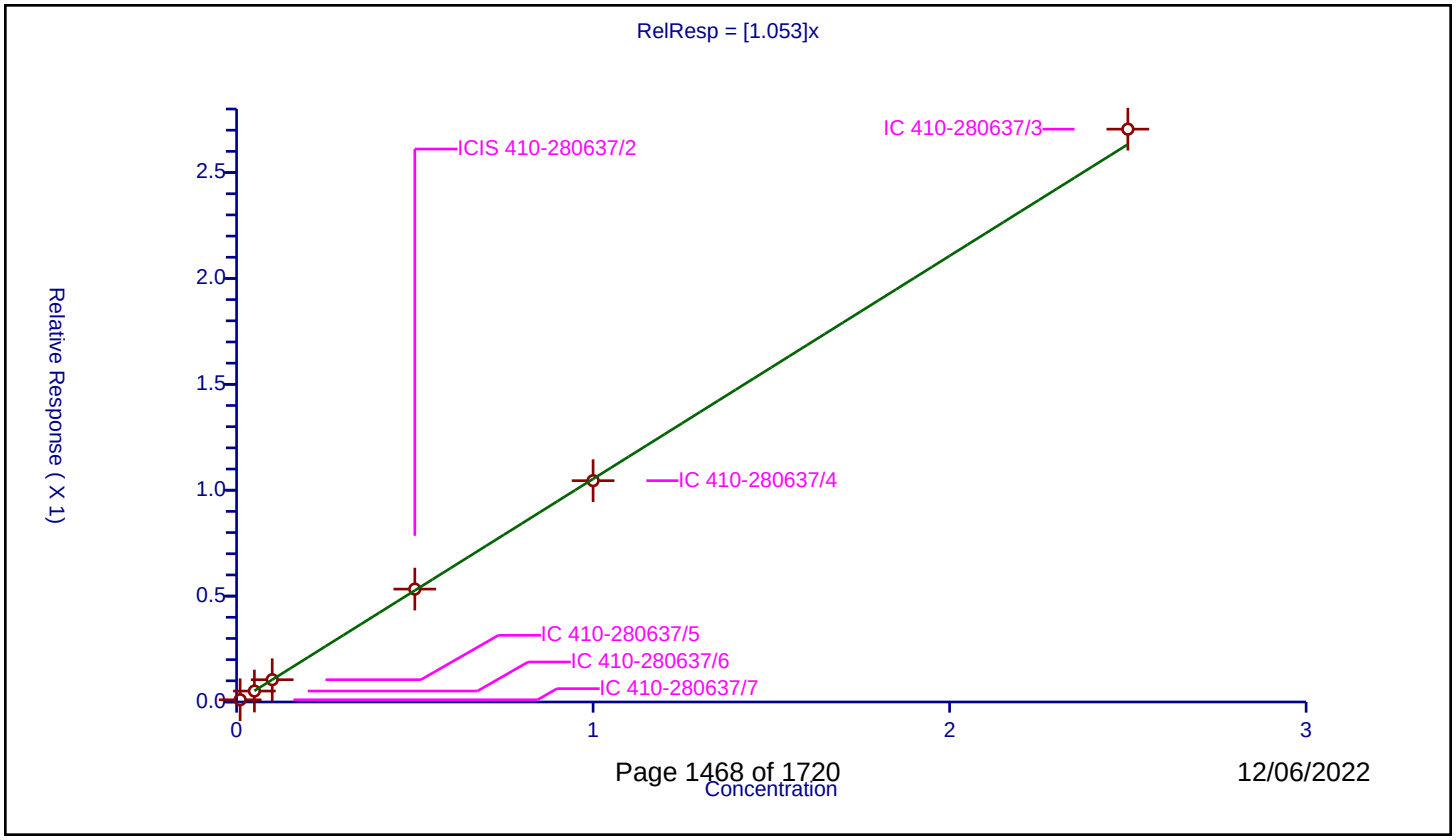
Curve Coefficients

Intercept:	0
Slope:	1.053

Error Coefficients

Standard Error:	1250000
Relative Standard Error:	1.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-280637/7	0.01	0.010408	0.25	222698.0	1.040759	Y
2	IC 410-280637/6	0.05	0.051689	0.25	230813.0	1.033781	Y
3	IC 410-280637/5	0.1	0.10519	0.25	233887.0	1.051897	Y
4	ICIS 410-280637/2	0.5	0.533027	0.25	218059.0	1.066053	Y
5	IC 410-280637/4	1.0	1.04511	0.25	240826.0	1.04511	Y
6	IC 410-280637/3	2.5	2.70491	0.25	236628.0	1.081964	Y



Calibration / Fluoranthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

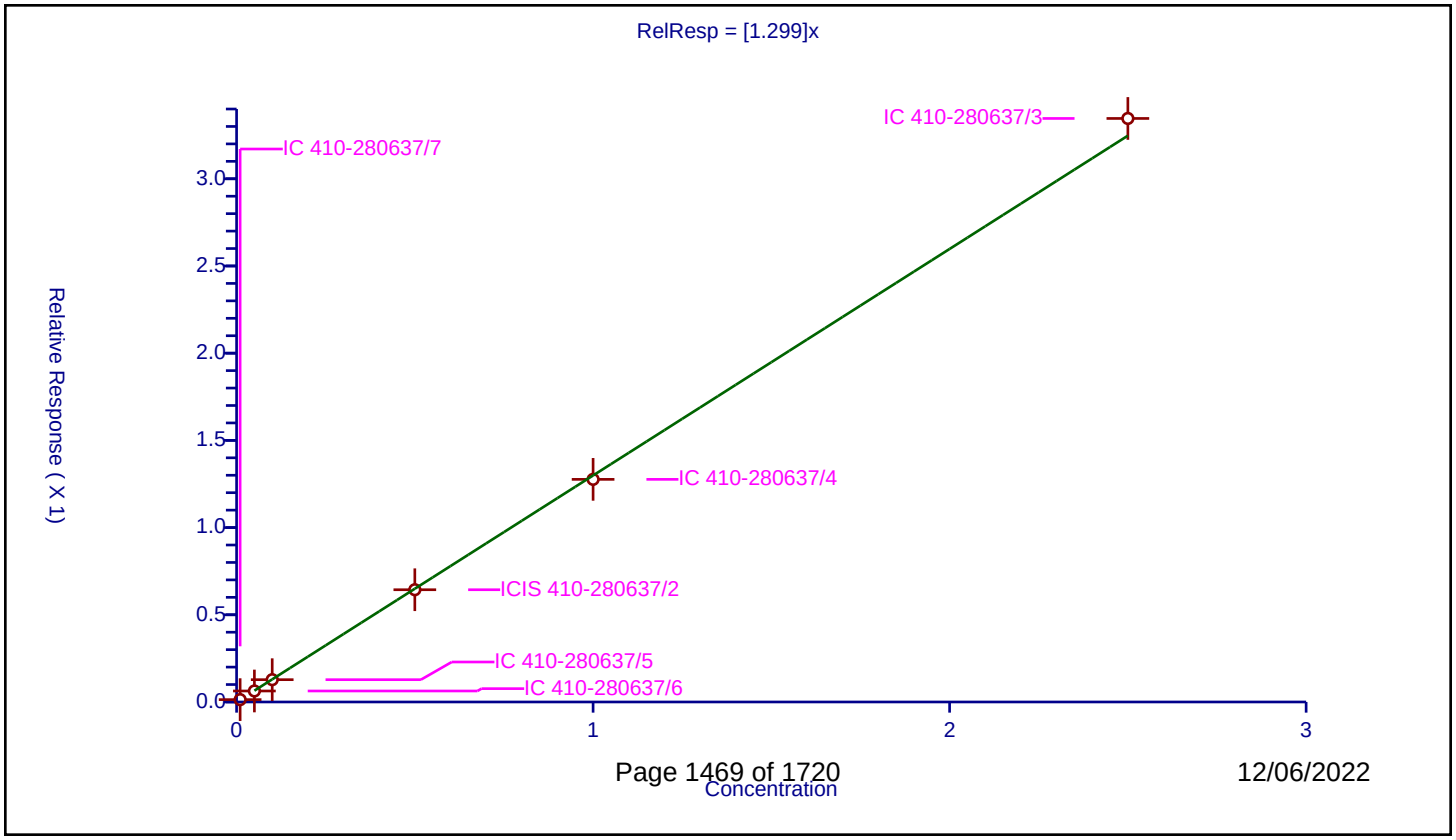
Curve Coefficients

Intercept:	0
Slope:	1.299

Error Coefficients

Standard Error:	1540000
Relative Standard Error:	2.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-280637/7	0.01	0.013486	0.25	222698.0	1.348575	Y
2	IC 410-280637/6	0.05	0.063146	0.25	230813.0	1.262927	Y
3	IC 410-280637/5	0.1	0.127913	0.25	233887.0	1.279133	Y
4	ICIS 410-280637/2	0.5	0.643681	0.25	218059.0	1.287363	Y
5	IC 410-280637/4	1.0	1.276554	0.25	240826.0	1.276554	Y
6	IC 410-280637/3	2.5	3.345938	0.25	236628.0	1.338375	Y



Calibration / Pyrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

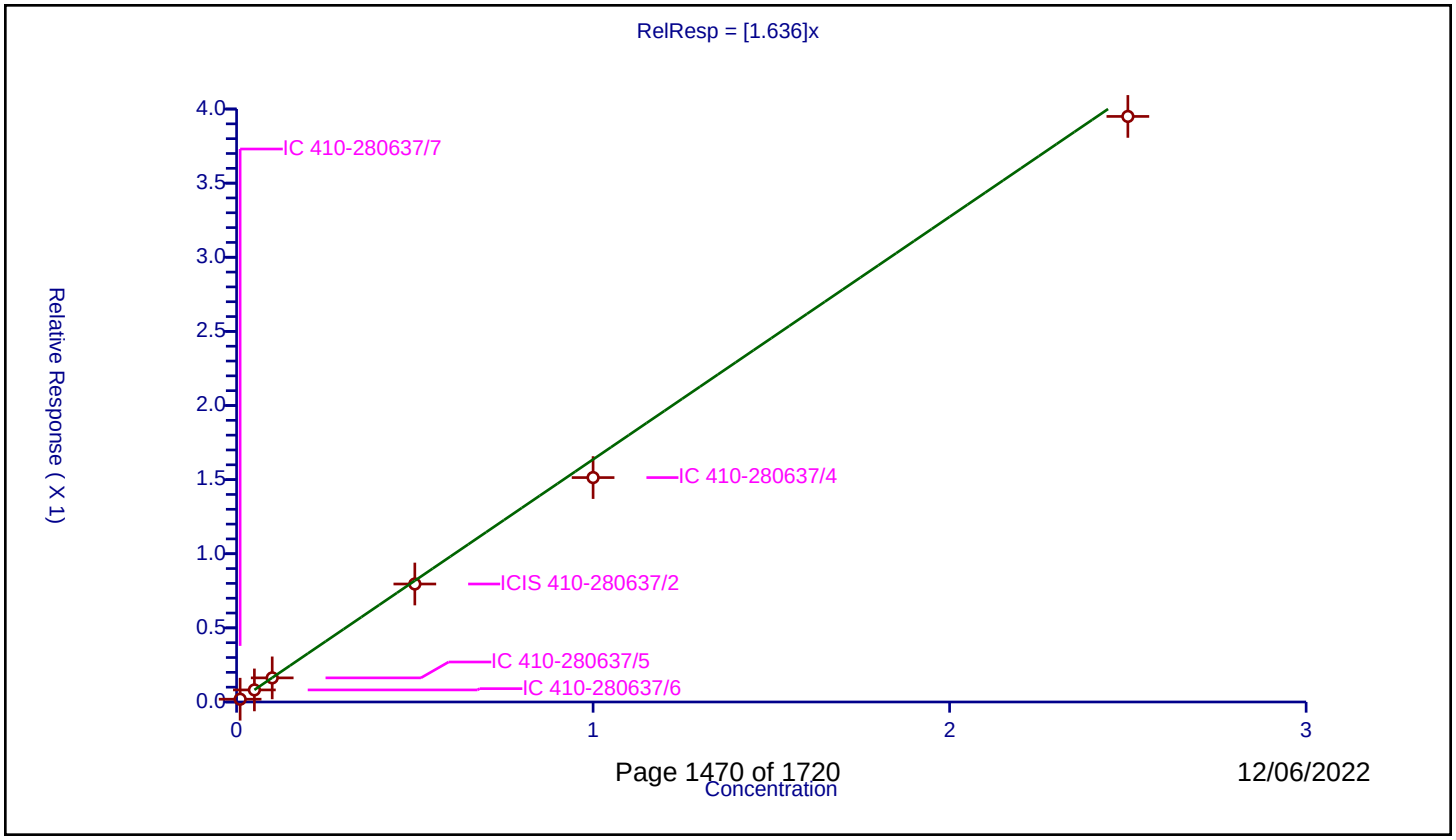
Curve Coefficients

Intercept:	0
Slope:	1.636

Error Coefficients

Standard Error:	1610000
Relative Standard Error:	7.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-280637/7	0.01	0.01878	0.25	171370.0	1.877954	Y
2	IC 410-280637/6	0.05	0.081355	0.25	184226.0	1.627105	Y
3	IC 410-280637/5	0.1	0.162724	0.25	191917.0	1.62724	Y
4	ICIS 410-280637/2	0.5	0.795913	0.25	186396.0	1.591826	Y
5	IC 410-280637/4	1.0	1.513893	0.25	214815.0	1.513893	Y
6	IC 410-280637/3	2.5	3.950074	0.25	208205.0	1.58003	Y



Calibration / Butyl benzyl phthalate

Curve Type:	Quadratic
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

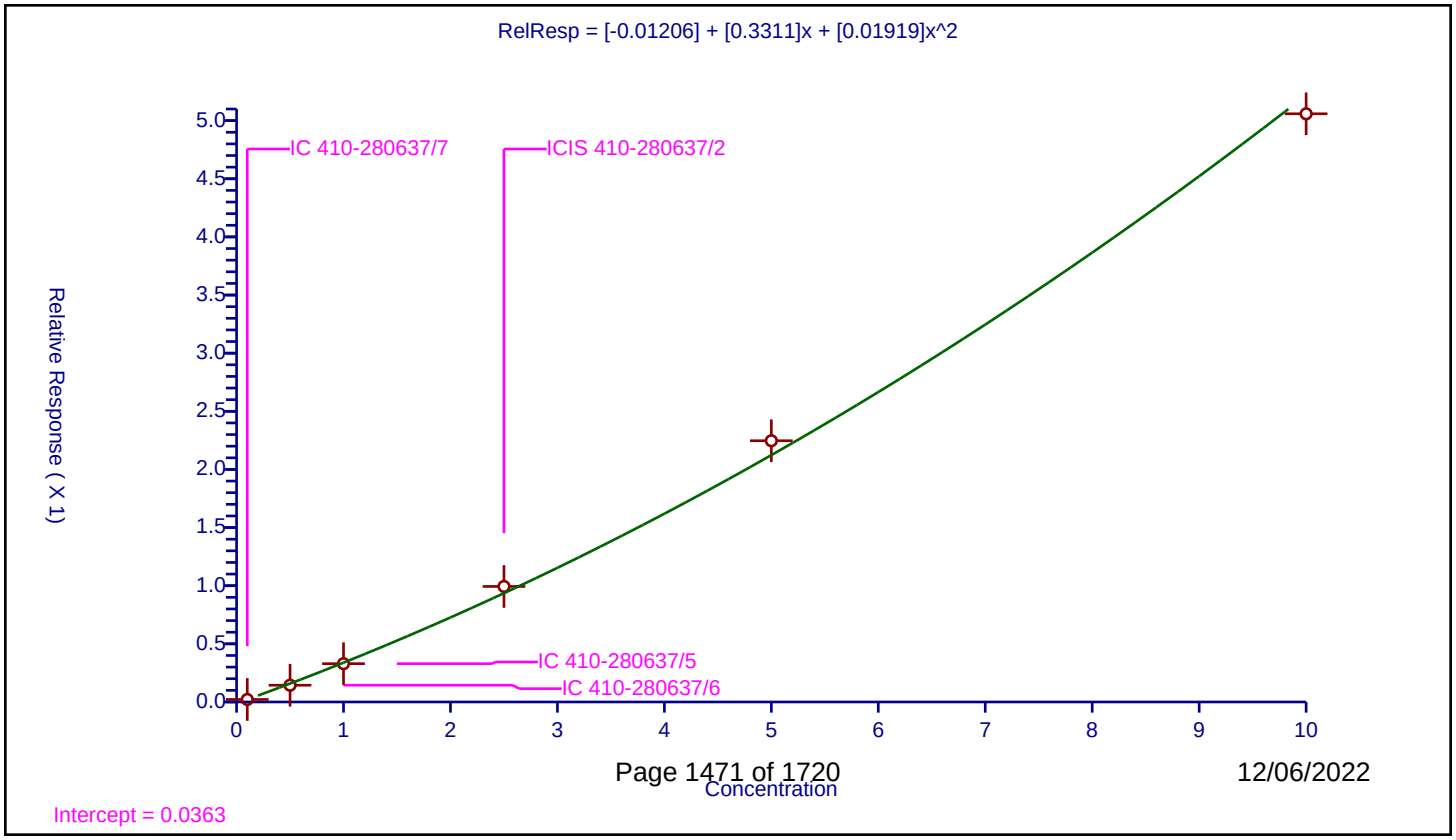
Curve Coefficients

Intercept:	-0.01206
Slope:	0.3311
Second Order:	0.01919

Error Coefficients

Standard Error:	2710000
Relative Standard Error:	6.6
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-280637/7	0.1	0.021776	0.25	171370.0	0.21776	Y
2	IC 410-280637/6	0.5	0.144065	0.25	184226.0	0.28813	Y
3	IC 410-280637/5	1.0	0.329407	0.25	191917.0	0.329407	Y
4	ICIS 410-280637/2	2.5	0.993692	0.25	186396.0	0.397477	Y
5	IC 410-280637/4	5.0	2.246763	0.25	214815.0	0.449353	Y
6	IC 410-280637/3	10.0	5.059022	0.25	208205.0	0.505902	Y



Calibration / Benzo[a]anthracene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

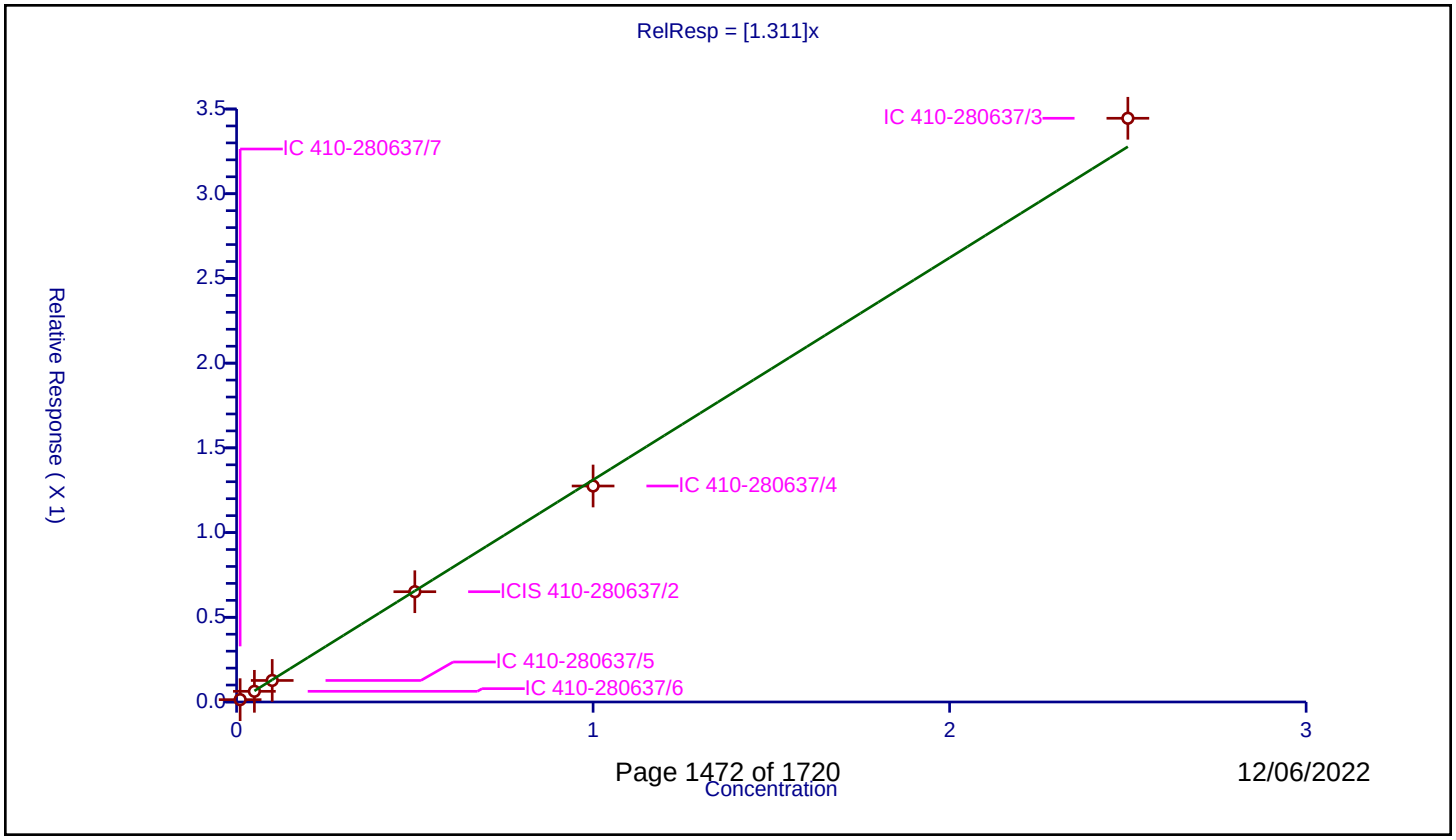
Curve Coefficients

Intercept:	0
Slope:	1.311

Error Coefficients

Standard Error:	1390000
Relative Standard Error:	4.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-280637/7	0.01	0.013787	0.25	171370.0	1.378742	Y
2	IC 410-280637/6	0.05	0.063076	0.25	184226.0	1.261521	Y
3	IC 410-280637/5	0.1	0.127108	0.25	191917.0	1.271083	Y
4	ICIS 410-280637/2	0.5	0.650872	0.25	186396.0	1.301745	Y
5	IC 410-280637/4	1.0	1.274878	0.25	214815.0	1.274878	Y
6	IC 410-280637/3	2.5	3.445452	0.25	208205.0	1.378181	Y



Calibration / Chrysene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

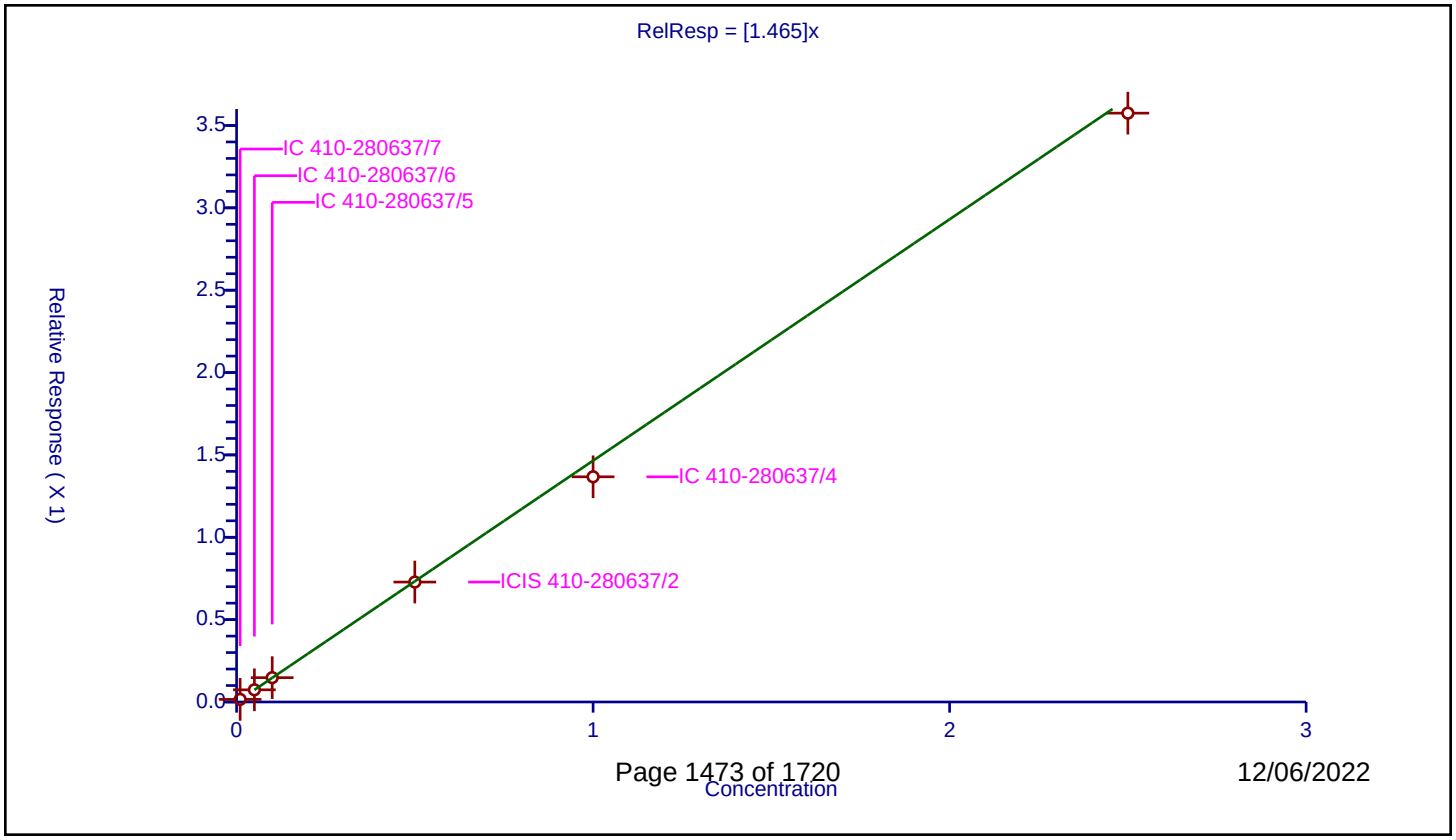
Curve Coefficients

Intercept:	0
Slope:	1.465

Error Coefficients

Standard Error:	1450000
Relative Standard Error:	4.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-280637/7	0.01	0.015822	0.25	171370.0	1.582249	Y
2	IC 410-280637/6	0.05	0.073938	0.25	184226.0	1.478754	Y
3	IC 410-280637/5	0.1	0.147688	0.25	191917.0	1.476875	Y
4	ICIS 410-280637/2	0.5	0.728049	0.25	186396.0	1.456099	Y
5	IC 410-280637/4	1.0	1.367206	0.25	214815.0	1.367206	Y
6	IC 410-280637/3	2.5	3.574859	0.25	208205.0	1.429944	Y



Calibration / Bis(2-ethylhexyl) phthalate

Curve Type:	Quadratic
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

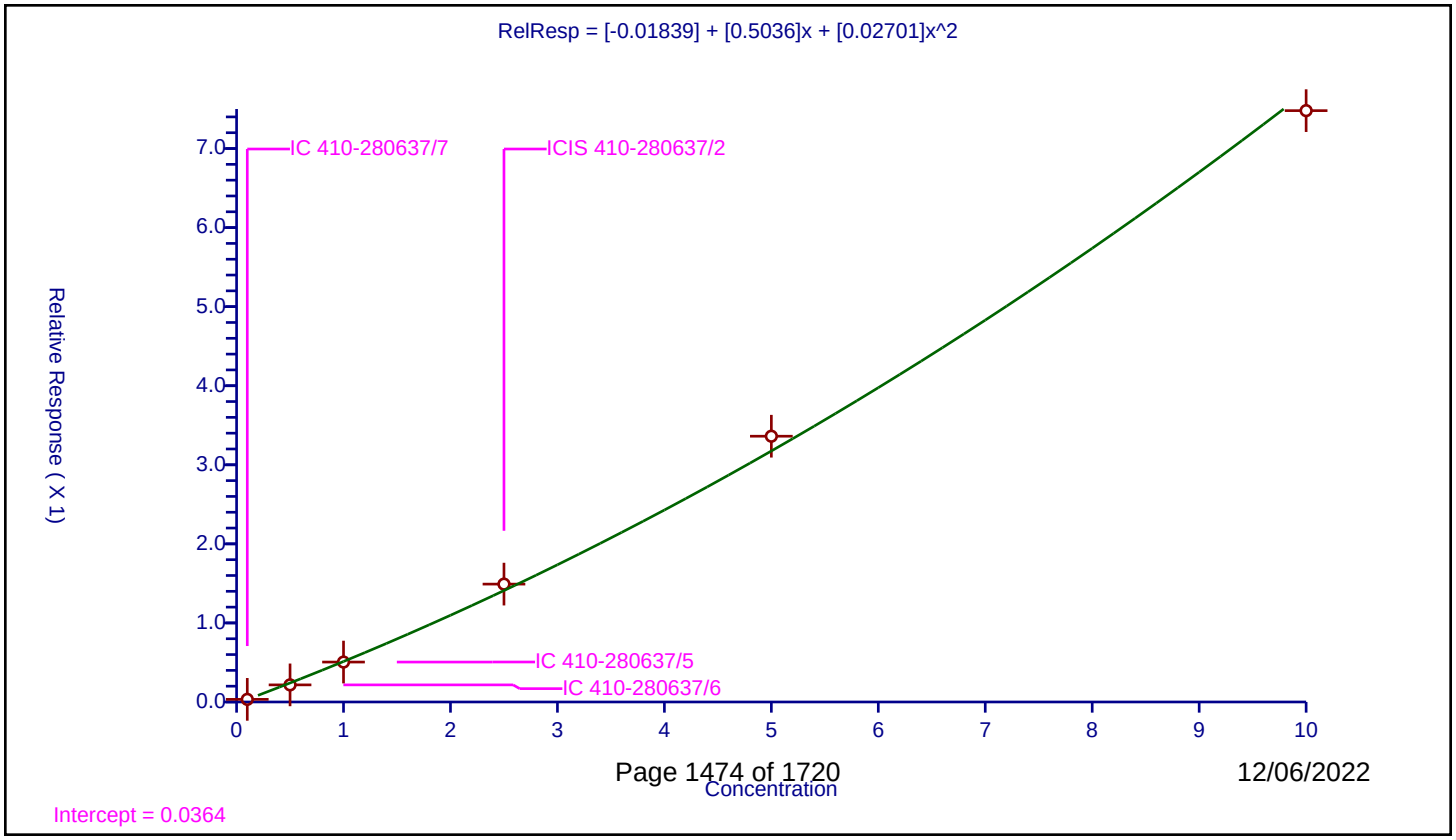
Curve Coefficients

Intercept:	-0.01839
Slope:	0.5036
Second Order:	0.02701

Error Coefficients

Standard Error:	4020000
Relative Standard Error:	6.8
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-280637/7	0.1	0.033073	0.25	171370.0	0.330732	Y
2	IC 410-280637/6	0.5	0.216492	0.25	184226.0	0.432984	Y
3	IC 410-280637/5	1.0	0.504946	0.25	191917.0	0.504946	Y
4	ICIS 410-280637/2	2.5	1.490885	0.25	186396.0	0.596354	Y
5	IC 410-280637/4	5.0	3.361562	0.25	214815.0	0.672312	Y
6	IC 410-280637/3	10.0	7.479401	0.25	208205.0	0.74794	Y



Calibration / Di-n-octyl phthalate

Curve Type:	Quadratic
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

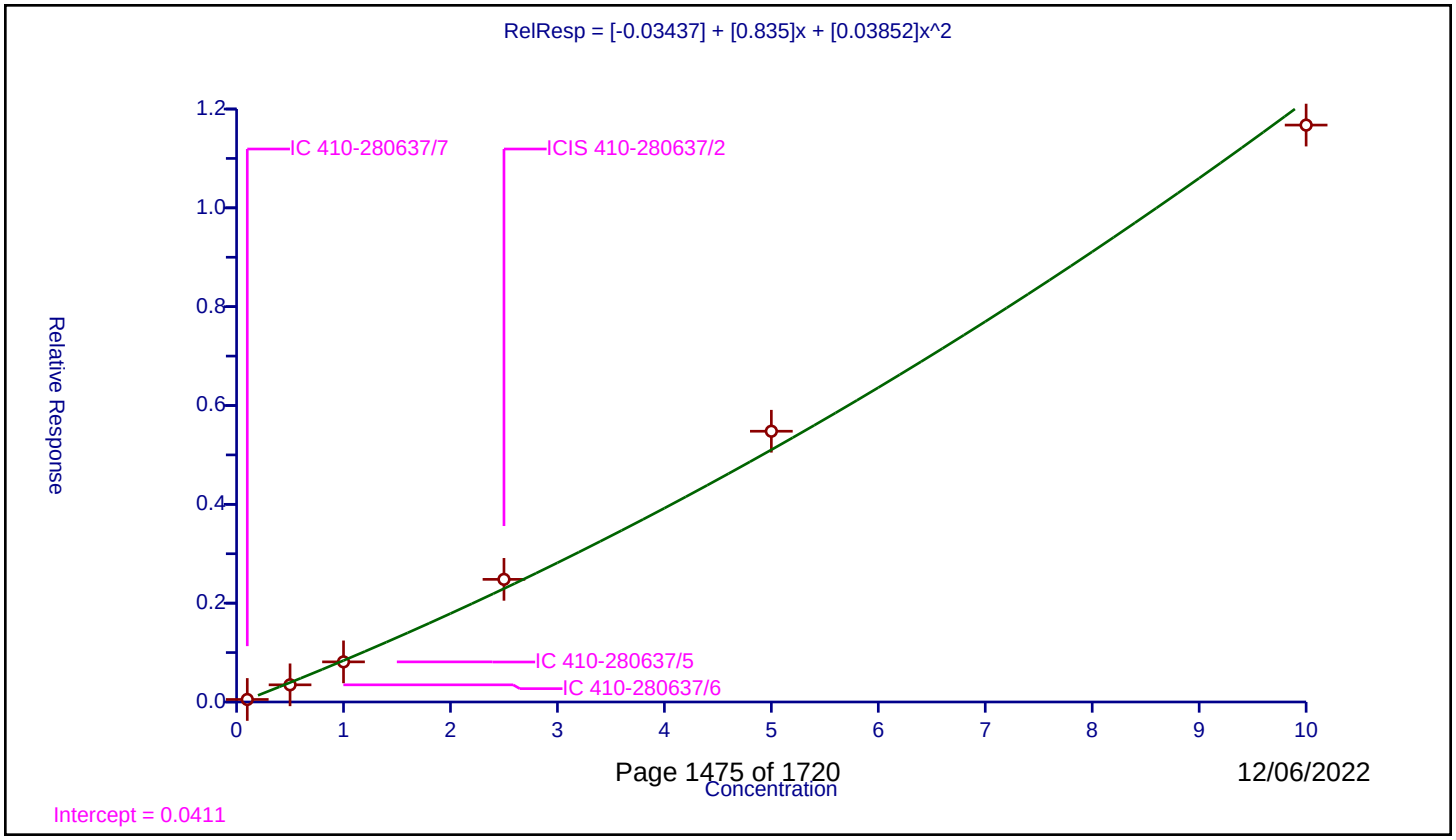
Curve Coefficients

Intercept:	-0.03437
Slope:	0.835
Second Order:	0.03852

Error Coefficients

Standard Error:	6740000
Relative Standard Error:	8.6
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-280637/7	0.1	0.051197	0.25	154251.0	0.511974	Y
2	IC 410-280637/6	0.5	0.347357	0.25	169397.0	0.694714	Y
3	IC 410-280637/5	1.0	0.812154	0.25	181832.0	0.812154	Y
4	ICIS 410-280637/2	2.5	2.48143	0.25	183007.0	0.992572	Y
5	IC 410-280637/4	5.0	5.479542	0.25	219472.0	1.095908	Y
6	IC 410-280637/3	10.0	11.674854	0.25	224084.0	1.167485	Y



Calibration / Benzo[b]fluoranthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

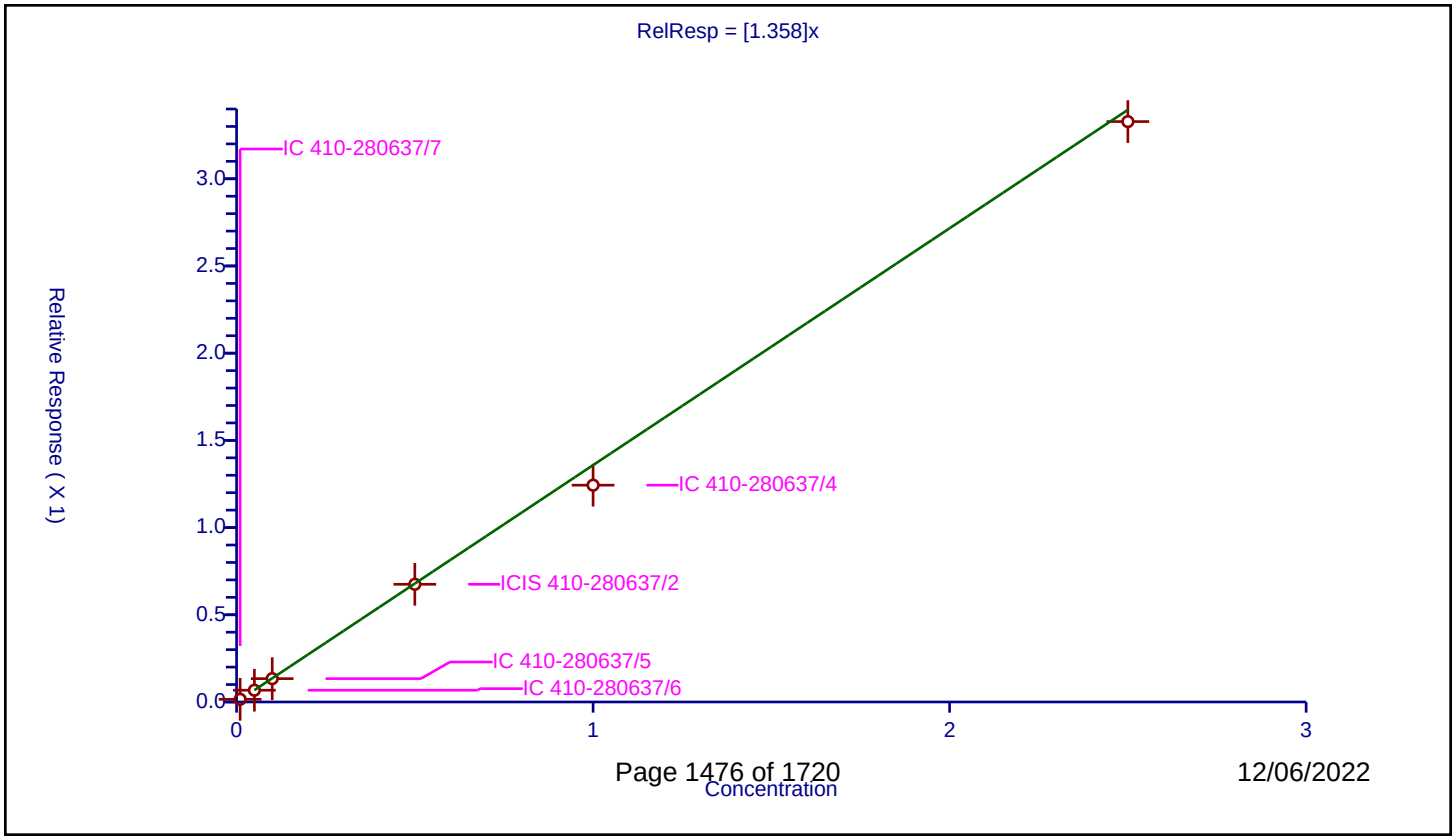
Curve Coefficients

Intercept:	0
Slope:	1.358

Error Coefficients

Standard Error:	1440000
Relative Standard Error:	7.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-280637/7	0.01	0.015361	0.25	154251.0	1.536133	Y
2	IC 410-280637/6	0.05	0.067452	0.25	169397.0	1.34905	Y
3	IC 410-280637/5	0.1	0.133931	0.25	181832.0	1.339313	Y
4	ICIS 410-280637/2	0.5	0.674899	0.25	183007.0	1.349798	Y
5	IC 410-280637/4	1.0	1.243149	0.25	219472.0	1.243149	Y
6	IC 410-280637/3	2.5	3.327921	0.25	224084.0	1.331168	Y



Calibration / Benzo[k]fluoranthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

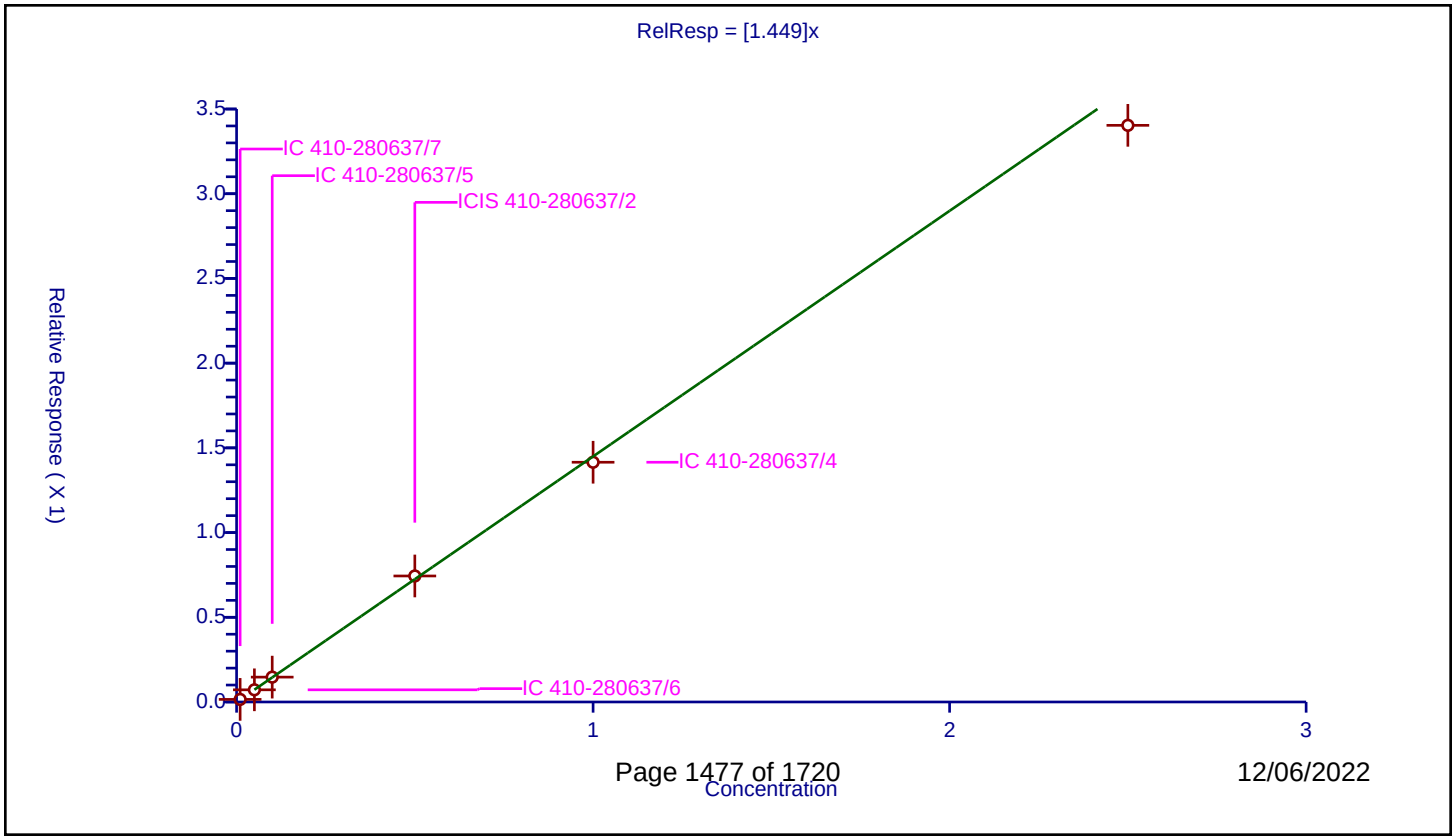
Curve Coefficients

Intercept:	0
Slope:	1.449

Error Coefficients

Standard Error:	1490000
Relative Standard Error:	4.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-280637/7	0.01	0.015267	0.25	154251.0	1.526732	Y
2	IC 410-280637/6	0.05	0.071877	0.25	169397.0	1.43754	Y
3	IC 410-280637/5	0.1	0.146788	0.25	181832.0	1.46788	Y
4	ICIS 410-280637/2	0.5	0.743862	0.25	183007.0	1.487725	Y
5	IC 410-280637/4	1.0	1.415144	0.25	219472.0	1.415144	Y
6	IC 410-280637/3	2.5	3.403633	0.25	224084.0	1.361453	Y



Calibration / Benzo[e]pyrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

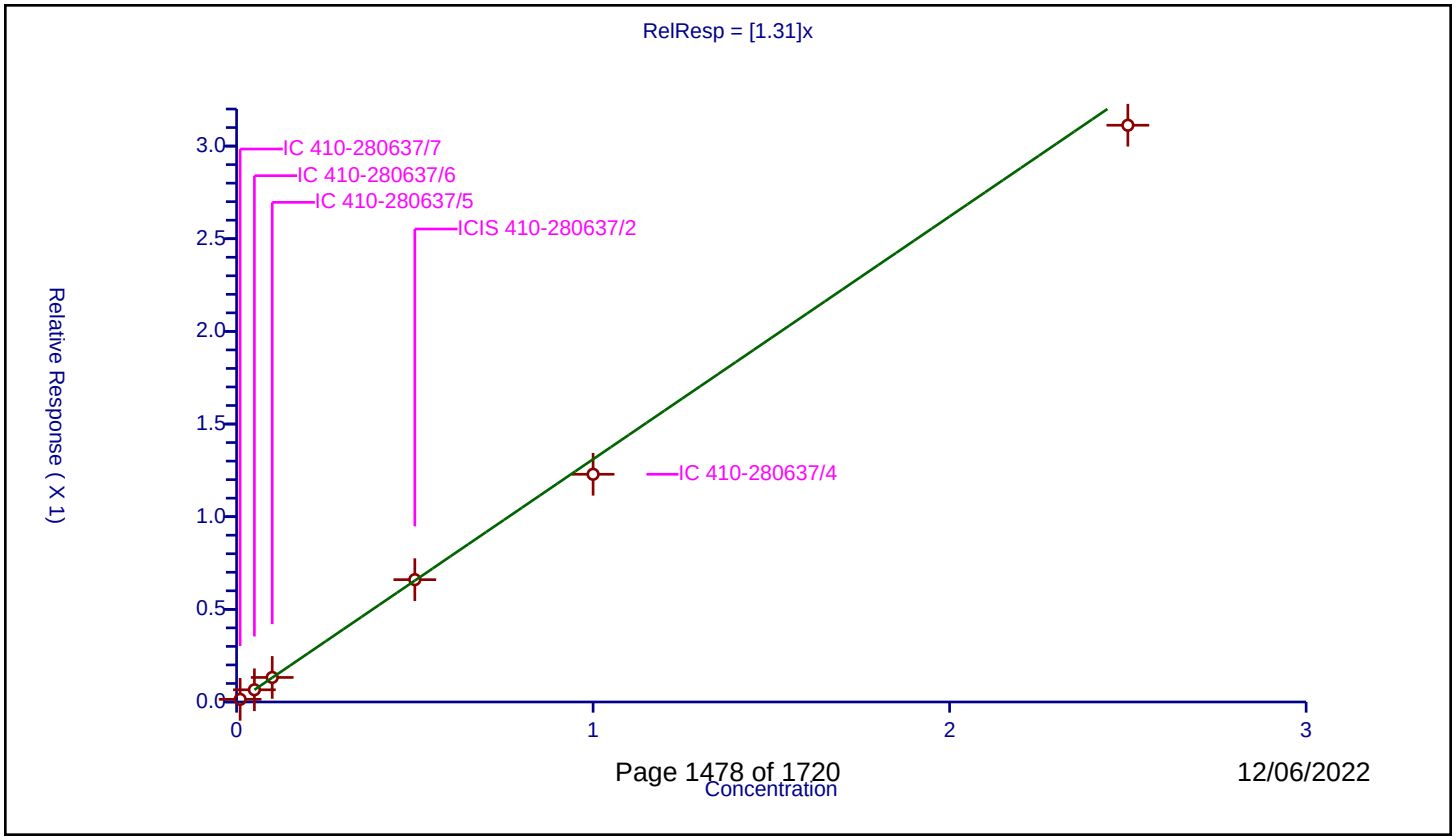
Curve Coefficients

Intercept:	0
Slope:	1.31

Error Coefficients

Standard Error:	1360000
Relative Standard Error:	5.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-280637/7	0.01	0.014246	0.25	154251.0	1.424626	Y
2	IC 410-280637/6	0.05	0.065854	0.25	169397.0	1.317084	Y
3	IC 410-280637/5	0.1	0.132433	0.25	181832.0	1.324327	Y
4	ICIS 410-280637/2	0.5	0.660193	0.25	183007.0	1.320387	Y
5	IC 410-280637/4	1.0	1.228872	0.25	219472.0	1.228872	Y
6	IC 410-280637/3	2.5	3.112554	0.25	224084.0	1.245022	Y



Calibration / Benzo(a)pyrene-d12 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

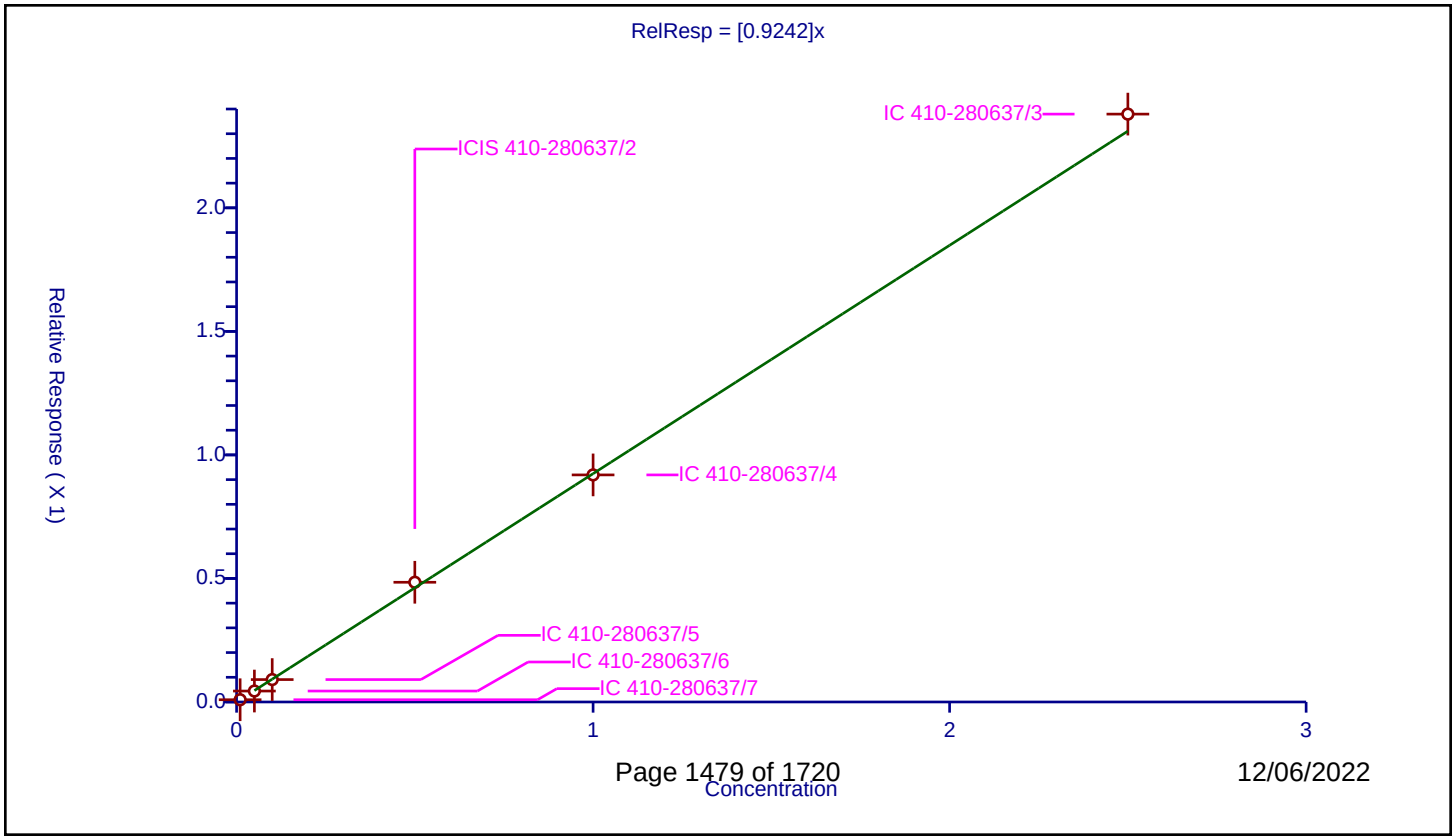
Curve Coefficients

Intercept:	0
Slope:	0.9242

Error Coefficients

Standard Error:	1030000
Relative Standard Error:	3.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-280637/7	0.01	0.009113	0.25	154251.0	0.911339	Y
2	IC 410-280637/6	0.05	0.044332	0.25	169397.0	0.886645	Y
3	IC 410-280637/5	0.1	0.090717	0.25	181832.0	0.90717	Y
4	ICIS 410-280637/2	0.5	0.484591	0.25	183007.0	0.969182	Y
5	IC 410-280637/4	1.0	0.919116	0.25	219472.0	0.919116	Y
6	IC 410-280637/3	2.5	2.379354	0.25	224084.0	0.951742	Y



Calibration / Benzo[a]pyrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

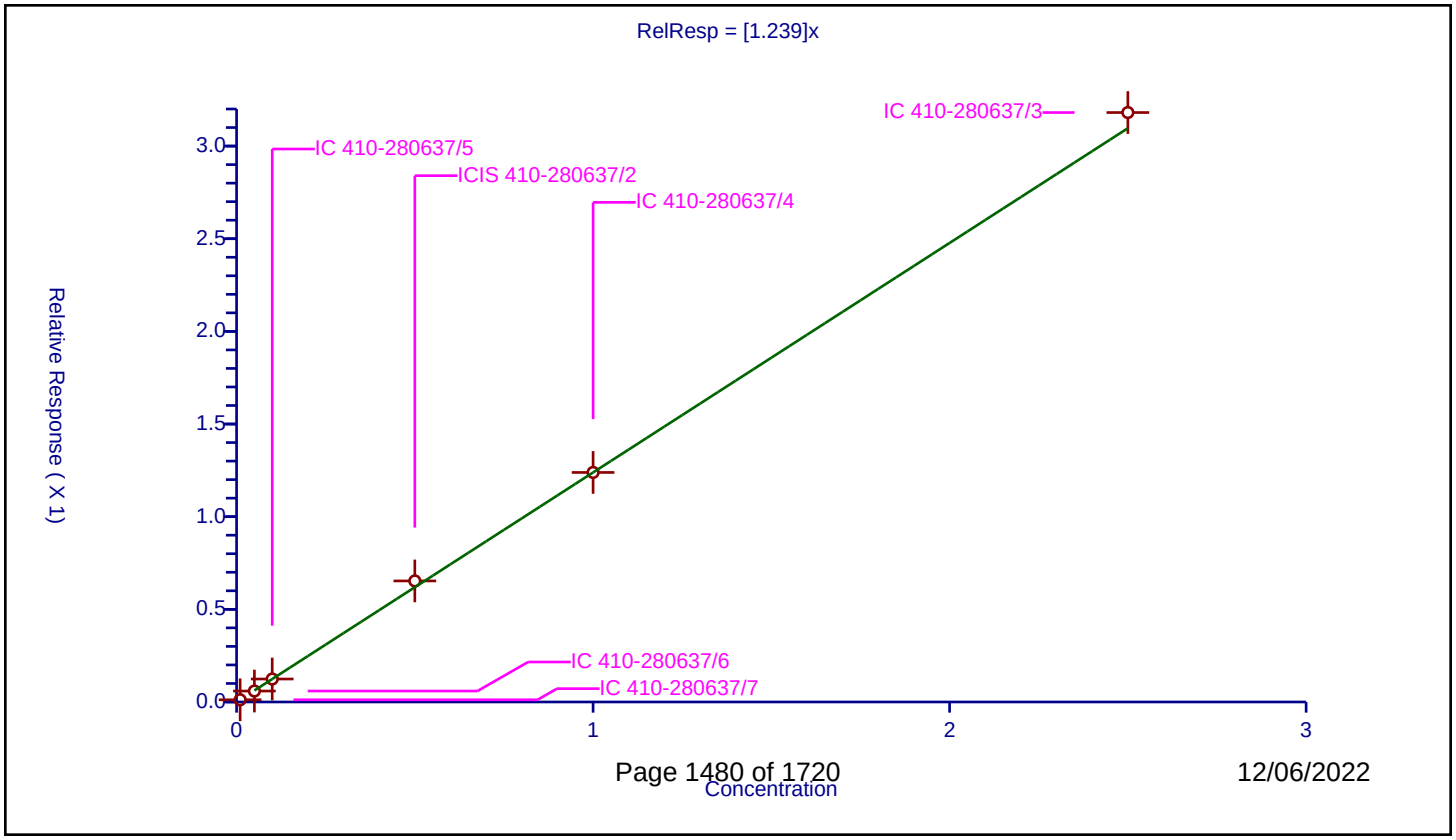
Curve Coefficients

Intercept:	0
Slope:	1.239

Error Coefficients

Standard Error:	1380000
Relative Standard Error:	3.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-280637/7	0.01	0.011933	0.25	154251.0	1.193347	Y
2	IC 410-280637/6	0.05	0.059018	0.25	169397.0	1.180363	Y
3	IC 410-280637/5	0.1	0.123999	0.25	181832.0	1.239991	Y
4	ICIS 410-280637/2	0.5	0.6533	0.25	183007.0	1.3066	Y
5	IC 410-280637/4	1.0	1.238724	0.25	219472.0	1.238724	Y
6	IC 410-280637/3	2.5	3.181012	0.25	224084.0	1.272405	Y



Calibration / Perylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

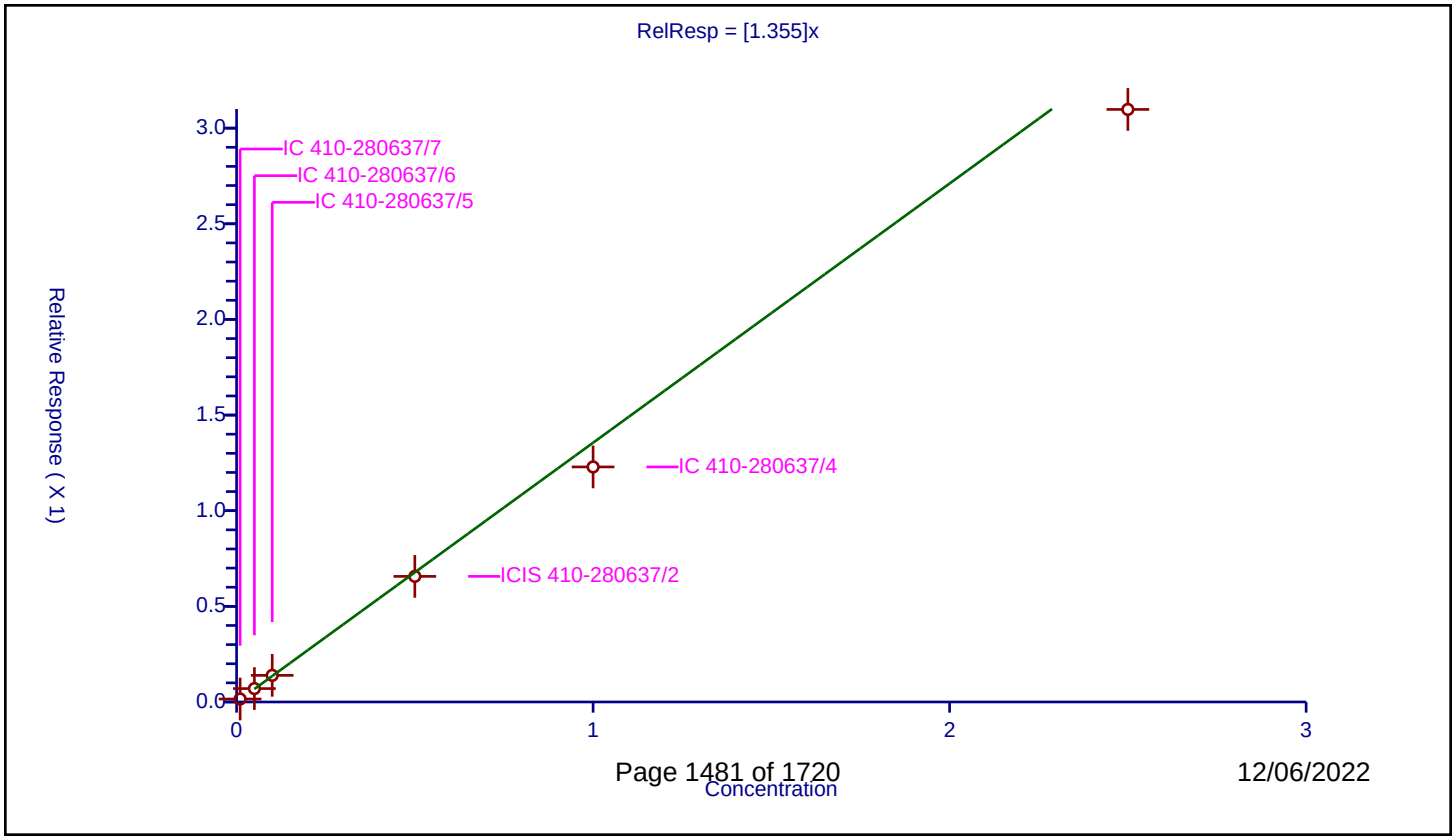
Curve Coefficients

Intercept:	0
Slope:	1.355

Error Coefficients

Standard Error:	1350000
Relative Standard Error:	9.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-280637/7	0.01	0.015566	0.25	154251.0	1.556554	Y
2	IC 410-280637/6	0.05	0.070106	0.25	169397.0	1.40212	Y
3	IC 410-280637/5	0.1	0.139159	0.25	181832.0	1.391587	Y
4	ICIS 410-280637/2	0.5	0.656689	0.25	183007.0	1.313379	Y
5	IC 410-280637/4	1.0	1.228893	0.25	219472.0	1.228893	Y
6	IC 410-280637/3	2.5	3.097829	0.25	224084.0	1.239132	Y



Calibration / Indeno[1,2,3-cd]pyrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

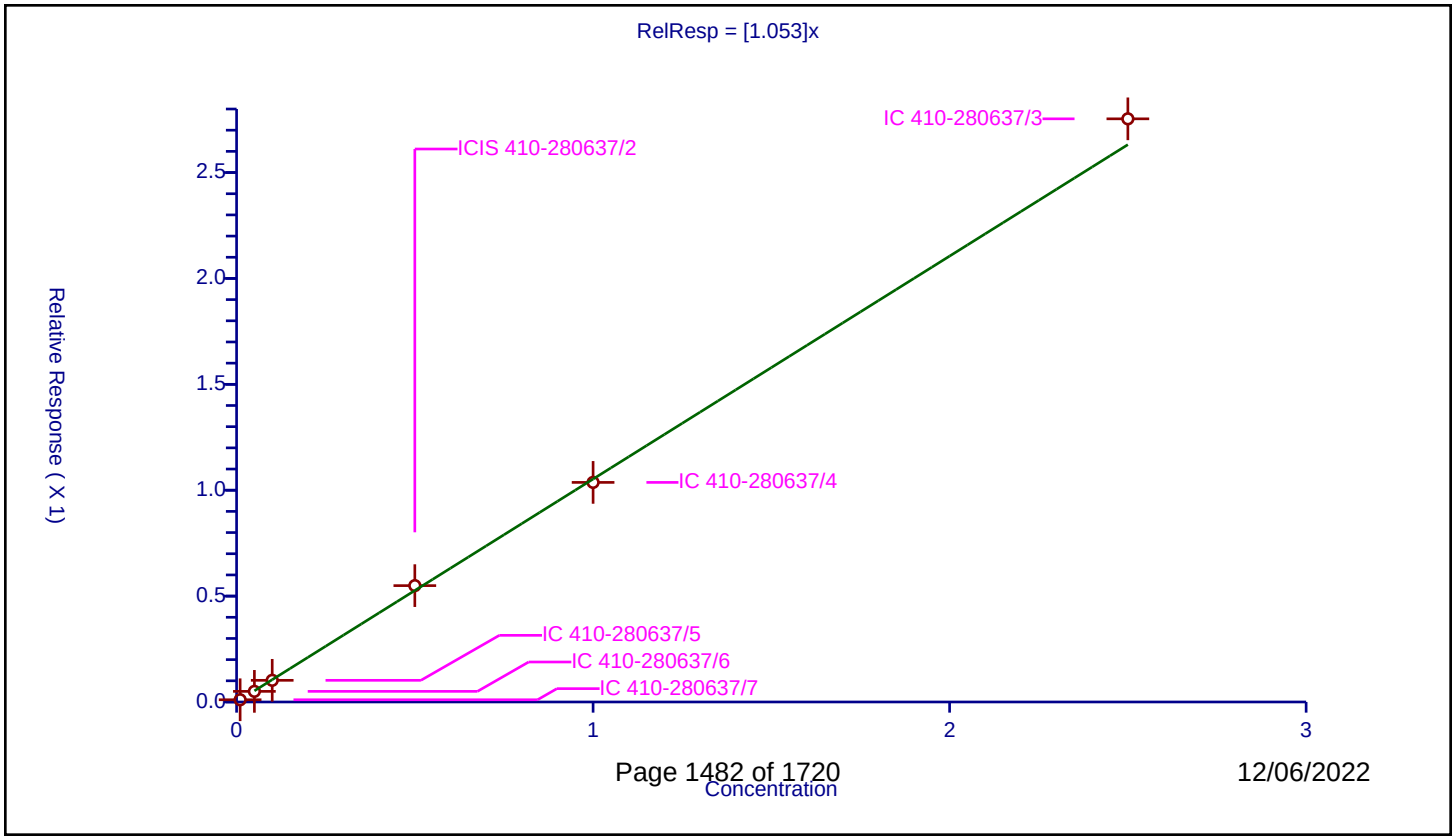
Curve Coefficients

Intercept:	0
Slope:	1.053

Error Coefficients

Standard Error:	1190000
Relative Standard Error:	3.8
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-280637/7	0.01	0.010517	0.25	154251.0	1.051695	Y
2	IC 410-280637/6	0.05	0.050196	0.25	169397.0	1.003914	Y
3	IC 410-280637/5	0.1	0.102353	0.25	181832.0	1.023527	Y
4	ICIS 410-280637/2	0.5	0.549415	0.25	183007.0	1.09883	Y
5	IC 410-280637/4	1.0	1.036941	0.25	219472.0	1.036941	Y
6	IC 410-280637/3	2.5	2.753678	0.25	224084.0	1.101471	Y



Calibration / Dibenz(a,h)anthracene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

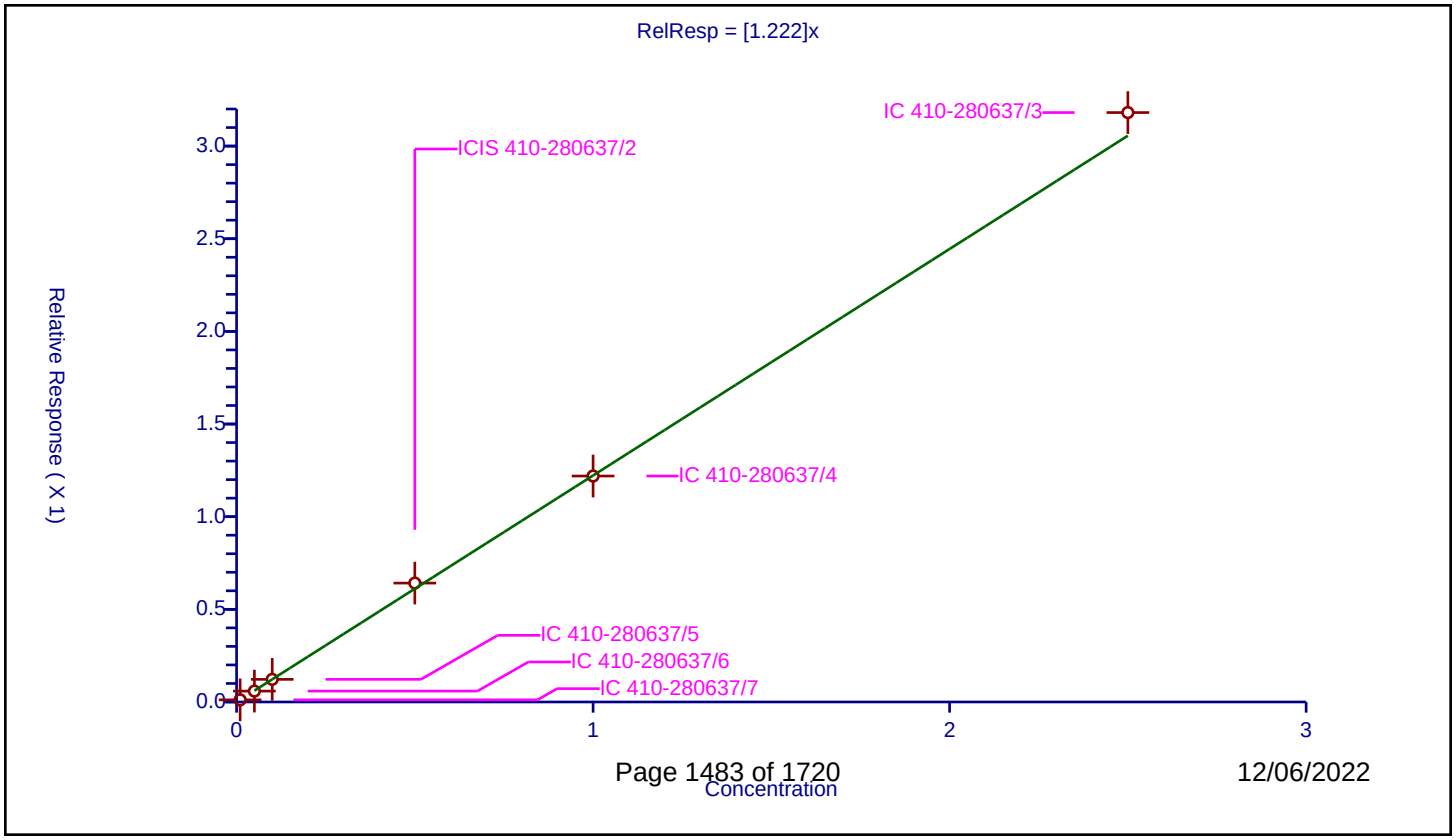
Curve Coefficients

Intercept:	0
Slope:	1.222

Error Coefficients

Standard Error:	1380000
Relative Standard Error:	4.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-280637/7	0.01	0.011634	0.25	154251.0	1.163364	Y
2	IC 410-280637/6	0.05	0.058767	0.25	169397.0	1.175345	Y
3	IC 410-280637/5	0.1	0.122036	0.25	181832.0	1.220357	Y
4	ICIS 410-280637/2	0.5	0.64165	0.25	183007.0	1.283301	Y
5	IC 410-280637/4	1.0	1.21943	0.25	219472.0	1.21943	Y
6	IC 410-280637/3	2.5	3.180879	0.25	224084.0	1.272351	Y



Calibration / Benzo[g,h,i]perylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

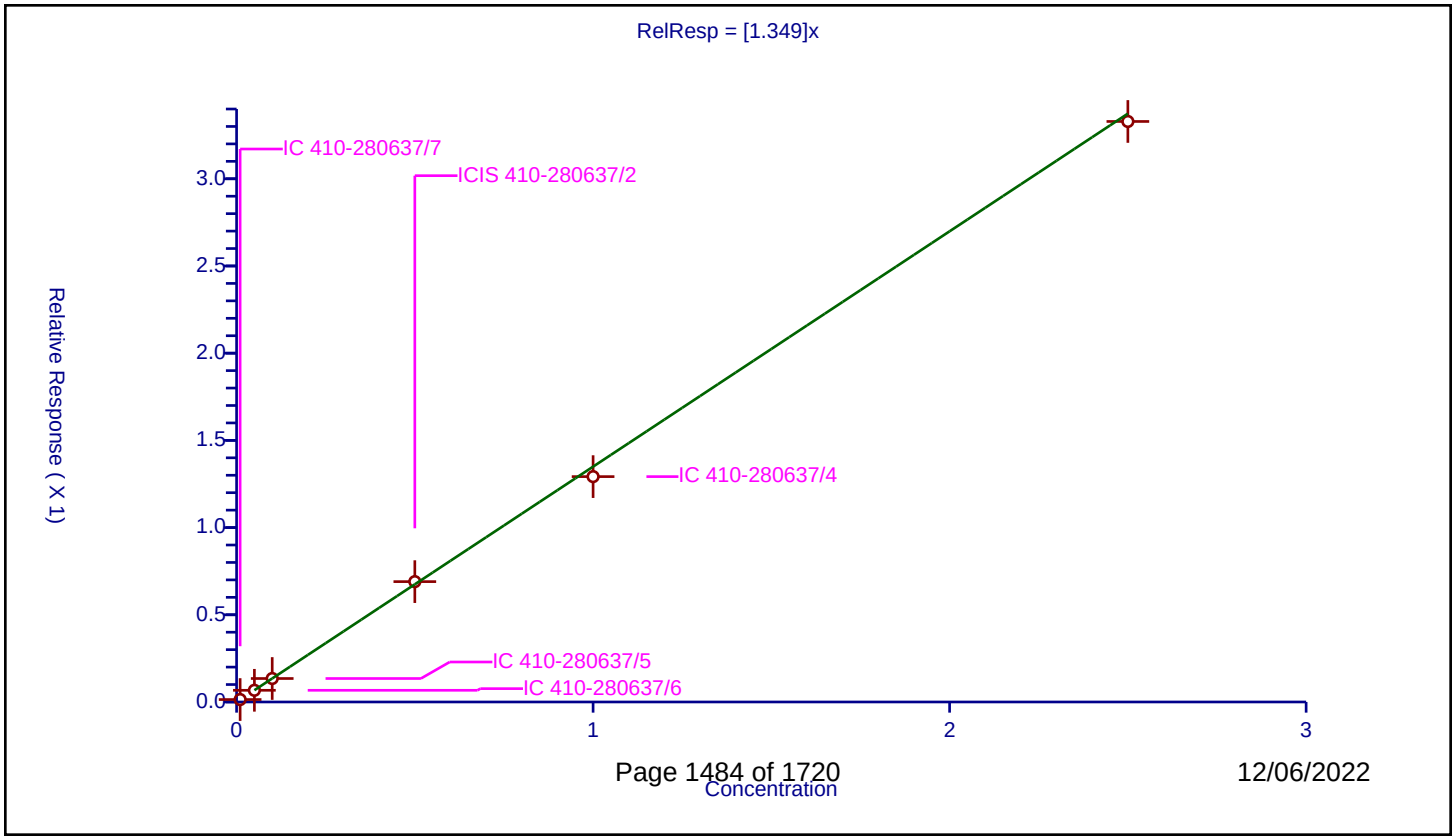
Curve Coefficients

Intercept:	0
Slope:	1.349

Error Coefficients

Standard Error:	1450000
Relative Standard Error:	2.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-280637/7	0.01	0.014057	0.25	154251.0	1.405663	Y
2	IC 410-280637/6	0.05	0.066989	0.25	169397.0	1.339782	Y
3	IC 410-280637/5	0.1	0.134692	0.25	181832.0	1.346916	Y
4	ICIS 410-280637/2	0.5	0.690138	0.25	183007.0	1.380275	Y
5	IC 410-280637/4	1.0	1.292284	0.25	219472.0	1.292284	Y
6	IC 410-280637/3	2.5	3.328549	0.25	224084.0	1.331419	Y



FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1 Analy Batch No.: 303206

SDG No.:

Instrument ID: HP23263 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/05/2022 09:51 Calibration End Date: 10/05/2022 11:42 Calibration ID: 42802

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-303206/7	NJ0026.D
Level 2	IC 410-303206/6	NJ0025.D
Level 3	IC 410-303206/5	NJ0024.D
Level 4	ICIS 410-303206/2	NJ0021.D
Level 5	IC 410-303206/4	NJ0023.D
Level 6	IC 410-303206/3	NJ0022.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,4-Dioxane	+++++ 0.5617	0.6084	0.6272	0.6017	0.5666	Ave		0.5931				4.7		20.4			
N-Nitrosodimethylamine	0.6358 0.6878	0.6296	0.6666	0.7290	0.6909	Ave		0.6733				5.6		20.4			
Bis(2-chloroethyl)ether	0.3823 0.3355	0.3463	0.3632	0.3654	0.3336	Ave		0.3544				5.4		20.4			
Naphthalene	1.1225 0.9150	1.0400	1.0416	1.0071	0.9506	Ave		1.0128				7.3		20.4			
Quinoline	0.6897 0.5893	0.6397	0.6636	0.6517	0.6063	Ave		0.6401				5.8		20.4			
2-Methylnaphthalene	0.6999 0.5740	0.6634	0.6780	0.6441	0.6077	Ave		0.6445				7.2		20.4			
1-Methylnaphthalene	0.6372 0.4993	0.5973	0.5997	0.5827	0.5418	Ave		0.5764				8.4		20.4			
Dimethylphthalate	1.0738 1.0993	1.2988	1.2332	1.1902	1.0672	Ave		1.1604				8.2		20.4			
Acenaphthylene	2.2241 1.9772	2.1274	2.1130	2.1297	1.9656	Ave		2.0895				4.8		20.4			
Acenaphthene	1.3440 1.2215	1.2692	1.2485	1.2828	1.1692	Ave		1.2559				4.7		20.4			
Dibenzofuran	1.9926 1.7836	1.9525	1.9181	1.9502	1.7464	Ave		1.8906				5.3		20.4			
Diethylphthalate	0.9564 1.0419	1.1948	1.1676	1.1369	1.0506	Ave		1.0914				8.3		20.4			
Fluorene	1.4225 1.3470	1.3824	1.3976	1.4459	1.3192	Ave		1.3858				3.4		20.4			
N-Nitrosodiphenylamine	0.5354 0.4495	0.4967	0.4937	0.5016	0.4630	Ave		0.4900				6.2		20.4			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1 Analy Batch No.: 303206

SDG No.:

Instrument ID: HP23263 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/05/2022 09:51 Calibration End Date: 10/05/2022 11:42 Calibration ID: 42802

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Hexachlorobenzene	0.3075 0.2535	0.2796	0.2653	0.2711	0.2528	Ave		0.2716				7.5		20.4			
Phenanthrene	1.2946 1.1143	1.1963	1.2074	1.1854	1.1094	Ave		1.1846				5.8		20.4			
Anthracene	1.1470 1.0701	1.1064	1.1023	1.1165	1.0407	Ave		1.0972				3.4		20.4			
Di-n-butyl phthalate	0.7021 0.8751	0.9035	0.9283	0.8949	0.9027	Ave		0.8678				9.6		20.4			
Fluoranthene	1.1543 1.0231	1.1121	1.1562	1.0938	1.0413	Ave		1.0968				5.1		20.4			
Pyrene	2.0951 1.7379	1.9040	1.8618	1.9050	1.6992	Ave		1.8672				7.6		20.4			
Butylbenzylphthalate	0.3541 0.5423	0.4396	0.4741	0.5159	0.5315	Ave		0.4763				14.9		20.4			
Benzo[a]anthracene	1.4467 1.3643	1.3181	1.3397	1.3977	1.3014	Ave		1.3613				4.0		20.4			
Chrysene	1.5237 1.3799	1.3992	1.4033	1.4256	1.3655	Ave		1.4162				4.0		20.4			
Bis(2-ethylhexyl) phthalate	0.4116 0.6787	0.5058	0.5601	0.6020	0.6326	Ave		0.5651				17.0		20.4			
Di-n-octyl phthalate	0.7037 1.0785	0.9200	1.0415	1.1006	1.1077	Ave		0.9920				15.8		20.4			
Benzo[b]fluoranthene	1.5296 1.3373	1.4729	1.4841	1.4731	1.3582	Ave		1.4425				5.3		20.4			
Benzo[k]fluoranthene	1.7747 1.3401	1.6266	1.6757	1.5922	1.5061	Ave		1.5859				9.4		20.4			
Benzo[e]pyrene	1.5289 1.2618	1.4610	1.4831	1.4305	1.3219	Ave		1.4145				7.2		20.4			
Benzo[a]pyrene	1.3215 1.2142	1.2940	1.3325	1.3233	1.2699	Ave		1.2926				3.5		20.4			
Perylene	1.4095 1.1995	1.3375	1.3553	1.3430	1.2504	Ave		1.3159				5.8		20.4			
Indeno[1,2,3-cd]pyrene	1.1077 0.9948	1.0109	1.0287	1.0578	0.9565	Ave		1.0261				5.1		20.4			
Dibenz(a,h)anthracene	1.0756 1.0809	1.0614	1.1281	1.1467	1.0519	Ave		1.0908				3.5		20.4			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1 Analy Batch No.: 303206

SDG No.:

Instrument ID: HP23263 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/05/2022 09:51 Calibration End Date: 10/05/2022 11:42 Calibration ID: 42802

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[g,h,i]perylene	1.3291 1.1854	1.2778	1.3148	1.2956	1.1740	Ave		1.2628				5.3		20.4			
1-Methylnaphthalene-d10 (Surr)	0.5058 0.4196	0.4572	0.4756	0.4662	0.4348	Ave		0.4599				6.6		20.4			
Fluoranthene-d10 (Surr)	0.9270 0.8575	0.9487	0.9591	0.9130	0.8629	Ave		0.9114				4.7		20.4			
Benzo(a)pyrene-d12 (Surr)	0.9548 0.9126	0.9839	0.9772	0.9977	0.9328	Ave		0.9598				3.4		20.4			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1 Analy Batch No.: 303206

SDG No.:

Instrument ID: HP23263 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/05/2022 09:51 Calibration End Date: 10/05/2022 11:42 Calibration ID: 42802

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-303206/7	NJ0026.D
Level 2	IC 410-303206/6	NJ0025.D
Level 3	IC 410-303206/5	NJ0024.D
Level 4	ICIS 410-303206/2	NJ0021.D
Level 5	IC 410-303206/4	NJ0023.D
Level 6	IC 410-303206/3	NJ0022.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,4-Dioxane	DCBd 4	Ave	+++++ 178991	4102	9135	44408	74442	+++++ 2.50	0.0500	0.100	0.500	1.00
N-Nitrosodimethylamine	DCBd 4	Ave	844 219180	4245	9708	53805	90768	0.0100 2.50	0.0500	0.100	0.500	1.00
Bis(2-chloroethyl)ether	NPT	Ave	1806 387544	8422	18669	97002	160942	0.0100 2.50	0.0500	0.100	0.500	1.00
Naphthalene	NPT	Ave	5302 1056890	25291	53543	267374	458569	0.0100 2.50	0.0500	0.100	0.500	1.00
Quinoline	NPT	Ave	3258 680730	15556	34113	173012	292485	0.0100 2.50	0.0500	0.100	0.500	1.00
2-Methylnaphthalene	NPT	Ave	3306 663054	16133	34851	170997	293162	0.0100 2.50	0.0500	0.100	0.500	1.00
1-Methylnaphthalene	NPT	Ave	3010 576769	14526	30829	154697	261376	0.0100 2.50	0.0500	0.100	0.500	1.00
Dimethylphthalate	ANT	Ave	21756 1936120	129781	273177	652901	1072961	0.100 10.0	0.500	1.00	2.50	5.00
Acenaphthylene	ANT	Ave	4506 870553	21258	46807	233660	395248	0.0100 2.50	0.0500	0.100	0.500	1.00
Acenaphthene	ANT	Ave	2723 537834	12683	27656	140739	235115	0.0100 2.50	0.0500	0.100	0.500	1.00
Dibenzofuran	ANT	Ave	4037 785301	19511	42489	213967	351175	0.0100 2.50	0.0500	0.100	0.500	1.00
Diethylphthalate	ANT	Ave	19377 1834952	119389	258647	623691	1056261	0.100 10.0	0.500	1.00	2.50	5.00
Fluorene	ANT	Ave	2882	13814	30958	158631	265268	0.0100	0.0500	0.100	0.500	1.00

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1 Analy Batch No.: 303206

SDG No.:

Instrument ID: HP23263 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/05/2022 09:51 Calibration End Date: 10/05/2022 11:42 Calibration ID: 42802

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
			593083					2.50				
N-Nitrosodiphenylamine	PHN	Ave	1675 318914	7909	17562	90125	147657	0.0100 2.50	0.0500	0.100	0.500	1.00
Hexachlorobenzene	PHN	Ave	962 179864	4452	9438	48702	80608	0.0100 2.50	0.0500	0.100	0.500	1.00
Phenanthrene	PHN	Ave	4050 790541	19051	42953	212999	353784	0.0100 2.50	0.0500	0.100	0.500	1.00
Anthracene	PHN	Ave	3588 759233	17618	39213	200618	331891	0.0100 2.50	0.0500	0.100	0.500	1.00
Di-n-butyl phthalate	PHN	Ave	21965 2483543	143881	330240	803964	1439306	0.100 10.0	0.500	1.00	2.50	5.00
Fluoranthene	PHN	Ave	3611 725898	17710	41133	196535	332084	0.0100 2.50	0.0500	0.100	0.500	1.00
Pyrene	CRY	Ave	3593 776575	18082	41521	205280	347687	0.0100 2.50	0.0500	0.100	0.500	1.00
Butylbenzylphthalate	CRY	Ave	6072 969340	41751	105730	277961	543769	0.100 10.0	0.500	1.00	2.50	5.00
Benzo[a]anthracene	CRY	Ave	2481 609645	12517	29879	150612	266294	0.0100 2.50	0.0500	0.100	0.500	1.00
Chrysene	CRY	Ave	2613 616626	13288	31297	153618	279408	0.0100 2.50	0.0500	0.100	0.500	1.00
Bis(2-ethylhexyl) phthalate	CRY	Ave	7059 1213024	48036	124912	324356	647173	0.100 10.0	0.500	1.00	2.50	5.00
Di-n-octyl phthalate	PRY	Ave	10075 1941888	71287	186250	524741	1009725	0.100 10.0	0.500	1.00	2.50	5.00
Benzo[b]fluoranthene	PRY	Ave	2190 601978	11413	26541	140472	247630	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo[k]fluoranthene	PRY	Ave	2541 603225	12604	29967	151833	274580	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo[e]pyrene	PRY	Ave	2189 567998	11321	26523	136408	241002	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo[a]pyrene	PRY	Ave	1892 546564	10027	23830	126183	231529	0.0100 2.50	0.0500	0.100	0.500	1.00
Perylene	PRY	Ave	2018 539954	10364	24237	128064	227968	0.0100 2.50	0.0500	0.100	0.500	1.00
Indeno[1,2,3-cd]pyrene	PRY	Ave	1586	7833	18397	100866	174393	0.0100	0.0500	0.100	0.500	1.00

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-106360-1 Analy Batch No.: 303206

SDG No.:

Instrument ID: HP23263 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/05/2022 09:51 Calibration End Date: 10/05/2022 11:42 Calibration ID: 42802

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
			447791					2.50				
Dibenz(a,h)anthracene	PRY	Ave	1540 486582	8224	20174	109343	191781	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo[g,h,i]perylene	PRY	Ave	1903 533611	9901	23513	123548	214033	0.0100 2.50	0.0500	0.100	0.500	1.00
1-Methylnaphthalene-d10 (Surr)	NPT	Ave	2389 484724	11119	24445	123769	209734	0.0100 2.50	0.0500	0.100	0.500	1.00
Fluoranthene-d10 (Surr)	PHN	Ave	2900 608379	15108	34121	164038	275185	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo(a)pyrene-d12 (Surr)	PRY	Ave	1367 410787	7624	17475	95139	170067	0.0100 2.50	0.0500	0.100	0.500	1.00

Curve Type Legend
Ave = Average ISTD

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0021.D
Lims ID: ICIS L4
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 05-Oct-2022 09:51:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICIS L4
Misc. Info.: 410-0067959-002
Operator ID: jmg00346 Instrument ID: HP23263
Sublist: chrom-8270_SIM_HP23263*sub3

Method: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 05-Oct-2022 16:17:36 Calib Date: 05-Oct-2022 11:42:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0026.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1660

First Level Reviewer: UJM0 Date: 05-Oct-2022 10:24:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.832	1.832	0.000	93	44408	0.5000	0.5072	
2 N-Nitrosodimethylamine	74	2.130	2.130	0.000	92	53805	0.5000	0.5414	
3 Bis(2-chloroethyl)ether	93	4.368	4.368	0.000	86	97002	0.5000	0.5155	
* 4 1,4-Dichlorobenzene-d4	152	4.631	4.631	0.000	93	36901	0.2500	0.2500	
* 5 Naphthalene-d8	136	5.818	5.818	0.000	100	132746	0.2500	0.2500	
6 Naphthalene	128	5.843	5.843	0.000	99	267374	0.5000	0.4972	
7 Quinoline	129	6.155	6.155	0.000	96	173012	0.5000	0.5091	
8 2-Methylnaphthalene	142	6.485	6.485	0.000	96	170997	0.5000	0.4997	
$ 9 1-Methylnaphthalene-d10	152	6.545	6.545	0.000	99	123769	0.5000	0.5069	
10 1-Methylnaphthalene	142	6.586	6.586	0.000	97	154697	0.5000	0.5055	
11 Dimethyl phthalate	163	7.227	7.227	0.000	98	652901	2.50	2.56	
12 Acenaphthylene	152	7.347	7.347	0.000	98	233660	0.5000	0.5096	
* 13 Acenaphthene-d10	164	7.477	7.477	0.000	87	54857	0.2500	0.2500	
14 Acenaphthene	154	7.507	7.507	0.000	98	140739	0.5000	0.5107	
15 Dibenzofuran	168	7.673	7.673	0.000	100	213967	0.5000	0.5158	
16 Diethyl phthalate	149	7.889	7.889	0.000	99	623691	2.50	2.60	
17 Fluorene	166	7.997	7.997	0.000	98	158631	0.5000	0.5217	
18 N-Nitrosodiphenylamine	169	8.113	8.113	0.000	97	90125	0.5000	0.5119	
19 Hexachlorobenzene	284	8.514	8.514	0.000	96	48702	0.5000	0.4990	
* 20 Phenanthrene-d10	188	8.893	8.893	0.000	100	89839	0.2500	0.2500	
21 Phenanthrene	178	8.916	8.916	0.000	99	212999	0.5000	0.5004	
22 Anthracene	178	8.962	8.962	0.000	100	200618	0.5000	0.5088	
23 Di-n-butyl phthalate	149	9.454	9.454	0.000	100	803964	2.50	2.58	
$ 24 Fluoranthene-d10 (Surr)	212	10.024	10.024	0.000	100	164038	0.5000	0.5009	
25 Fluoranthene	202	10.043	10.043	0.000	98	196535	0.5000	0.4986	
26 Pyrene	202	10.263	10.263	0.000	97	205280	0.5000	0.5101	
27 Butyl benzyl phthalate	149	10.953	10.953	0.000	100	277961	2.50	2.71	
28 Benzo[a]anthracene	228	11.574	11.574	0.000	100	150612	0.5000	0.5133	
* 29 Chrysene-d12	240	11.582	11.582	0.000	73	53880	0.2500	0.2500	
30 Chrysene	228	11.613	11.613	0.000	100	153618	0.5000	0.5033	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	11.651	11.651	0.000	100	324356	2.50	2.66	
32 Di-n-octyl phthalate	149	12.548	12.548	0.000	100	524741	2.50	2.77	
33 Benzo[b]fluoranthene	252	13.024	13.024	0.000	100	140472	0.5000	0.5106	
34 Benzo[k]fluoranthene	252	13.070	13.070	0.000	100	151833	0.5000	0.5020	
35 Benzo[e]pyrene	252	13.423	13.423	0.000	100	136408	0.5000	0.5056	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.469	13.469	0.000	97	95139	0.5000	0.5197	
37 Benzo[a]pyrene	252	13.499	13.499	0.000	100	126183	0.5000	0.5119	
* 38 Perylene-d12	264	13.584	13.584	0.000	98	47679	0.2500	0.2500	
39 Perylene	252	13.622	13.622	0.000	99	128064	0.5000	0.5103	
40 Indeno[1,2,3-cd]pyrene	276	15.277	15.277	0.000	97	100866	0.5000	0.5154	
41 Dibenz(a,h)anthracene	278	15.334	15.334	0.000	98	109343	0.5000	0.5256	
42 Benzo[g,h,i]perylene	276	15.764	15.764	0.000	98	123548	0.5000	0.5130	

QC Flag Legend

Processing Flags

Reagents:

MSS_RVSIM_4_00024 Amount Added: 1.00 Units: mL

Report Date: 05-Oct-2022 16:17:37 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0021.D

Injection Date: 05-Oct-2022 09:51:30 Instrument ID: HP23263 Operator ID: jmg00346

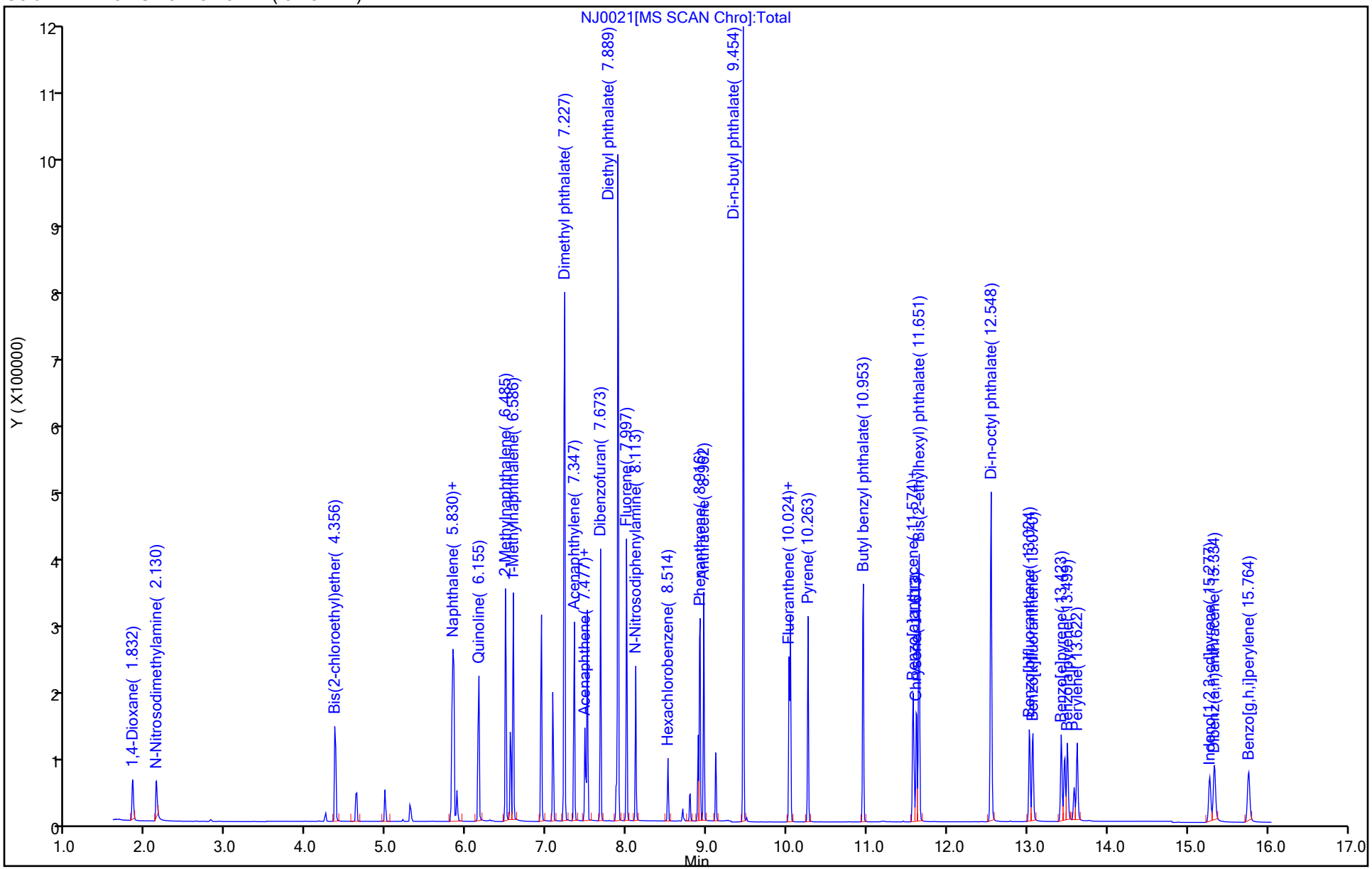
Lims ID: ICIS L4 Worklist Smp#: 2

Client ID:

Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 2

Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0022.D
Lims ID: IC L6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 05-Oct-2022 10:15:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L6
Misc. Info.: 410-0067959-003
Operator ID: jmg00346 Instrument ID: HP23263
Sublist: chrom-8270_SIM_HP23263*sub3

Method: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 05-Oct-2022 16:17:40 Calib Date: 05-Oct-2022 11:42:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0026.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1660

First Level Reviewer: SJ89 Date: 05-Oct-2022 15:10:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.832	1.832	0.000	93	178991	2.50	2.37	
2 N-Nitrosodimethylamine	74	2.126	2.130	-0.004	90	219180	2.50	2.55	
3 Bis(2-chloroethyl)ether	93	4.368	4.368	0.000	87	387544	2.50	2.37	
* 4 1,4-Dichlorobenzene-d4	152	4.631	4.631	0.000	95	31867	0.2500	0.2500	
* 5 Naphthalene-d8	136	5.818	5.818	0.000	100	115507	0.2500	0.2500	
6 Naphthalene	128	5.843	5.843	0.000	99	1056890	2.50	2.26	
7 Quinoline	129	6.155	6.155	0.000	96	680730	2.50	2.30	
8 2-Methylnaphthalene	142	6.488	6.485	0.003	100	663054	2.50	2.23	
$ 9 1-Methylnaphthalene-d10	152	6.548	6.545	0.003	100	484724	2.50	2.28	
10 1-Methylnaphthalene	142	6.588	6.586	0.002	94	576769	2.50	2.17	
11 Dimethyl phthalate	163	7.229	7.227	0.002	97	1936120	10.0	9.47	
12 Acenaphthylene	152	7.349	7.347	0.002	97	870553	2.50	2.37	
* 13 Acenaphthene-d10	164	7.480	7.477	0.003	92	44030	0.2500	0.2500	
14 Acenaphthene	154	7.510	7.507	0.003	96	537834	2.50	2.43	
15 Dibenzofuran	168	7.675	7.673	0.002	97	785301	2.50	2.36	
16 Diethyl phthalate	149	7.891	7.889	0.002	100	1834952	10.0	9.55	
17 Fluorene	166	8.000	7.997	0.003	99	593083	2.50	2.43	
18 N-Nitrosodiphenylamine	169	8.115	8.113	0.002	95	318914	2.50	2.29	
19 Hexachlorobenzene	284	8.517	8.514	0.003	92	179864	2.50	2.33	
* 20 Phenanthrene-d10	188	8.895	8.893	0.002	100	70948	0.2500	0.2500	
21 Phenanthrene	178	8.911	8.916	-0.005	100	790541	2.50	2.35	
22 Anthracene	178	8.965	8.962	0.003	100	759233	2.50	2.44	
23 Di-n-butyl phthalate	149	9.457	9.454	0.003	100	2483543	10.0	10.1	
$ 24 Fluoranthene-d10 (Surr)	212	10.027	10.024	0.003	99	608379	2.50	2.35	
25 Fluoranthene	202	10.046	10.043	0.003	97	725898	2.50	2.33	
26 Pyrene	202	10.265	10.263	0.002	96	776575	2.50	2.33	
27 Butyl benzyl phthalate	149	10.949	10.953	-0.004	100	969340	10.0	11.4	
28 Benzo[a]anthracene	228	11.571	11.574	-0.003	98	609645	2.50	2.51	
* 29 Chrysene-d12	240	11.586	11.582	0.004	47	44685	0.2500	0.2500	
30 Chrysene	228	11.617	11.613	0.004	100	616626	2.50	2.44	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	11.647	11.651	-0.004	100	1213024	10.0	12.0	
32 Di-n-octyl phthalate	149	12.545	12.548	-0.003	100	1941888	10.0	10.9	
33 Benzo[b]fluoranthene	252	13.028	13.024	0.004	100	601978	2.50	2.32	
34 Benzo[k]fluoranthene	252	13.066	13.070	-0.004	100	603225	2.50	2.11	
35 Benzo[e]pyrene	252	13.427	13.423	0.004	100	567998	2.50	2.23	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.465	13.469	-0.004	99	410787	2.50	2.38	
37 Benzo[a]pyrene	252	13.503	13.499	0.004	100	546564	2.50	2.35	
* 38 Perylene-d12	264	13.588	13.584	0.004	96	45015	0.2500	0.2500	
39 Perylene	252	13.626	13.622	0.004	100	539954	2.50	2.28	
40 Indeno[1,2,3-cd]pyrene	276	15.280	15.277	0.003	97	447791	2.50	2.42	
41 Dibenz(a,h)anthracene	278	15.337	15.334	0.003	98	486582	2.50	2.48	
42 Benzo[g,h,i]perylene	276	15.768	15.764	0.004	98	533611	2.50	2.35	

QC Flag Legend

Processing Flags

Reagents:

MSS_RVSIM_6_00015 Amount Added: 1.00 Units: mL

Report Date: 05-Oct-2022 16:17:40 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0022.D

Injection Date: 05-Oct-2022 10:15:30 Instrument ID: HP23263 Operator ID: jmg00346

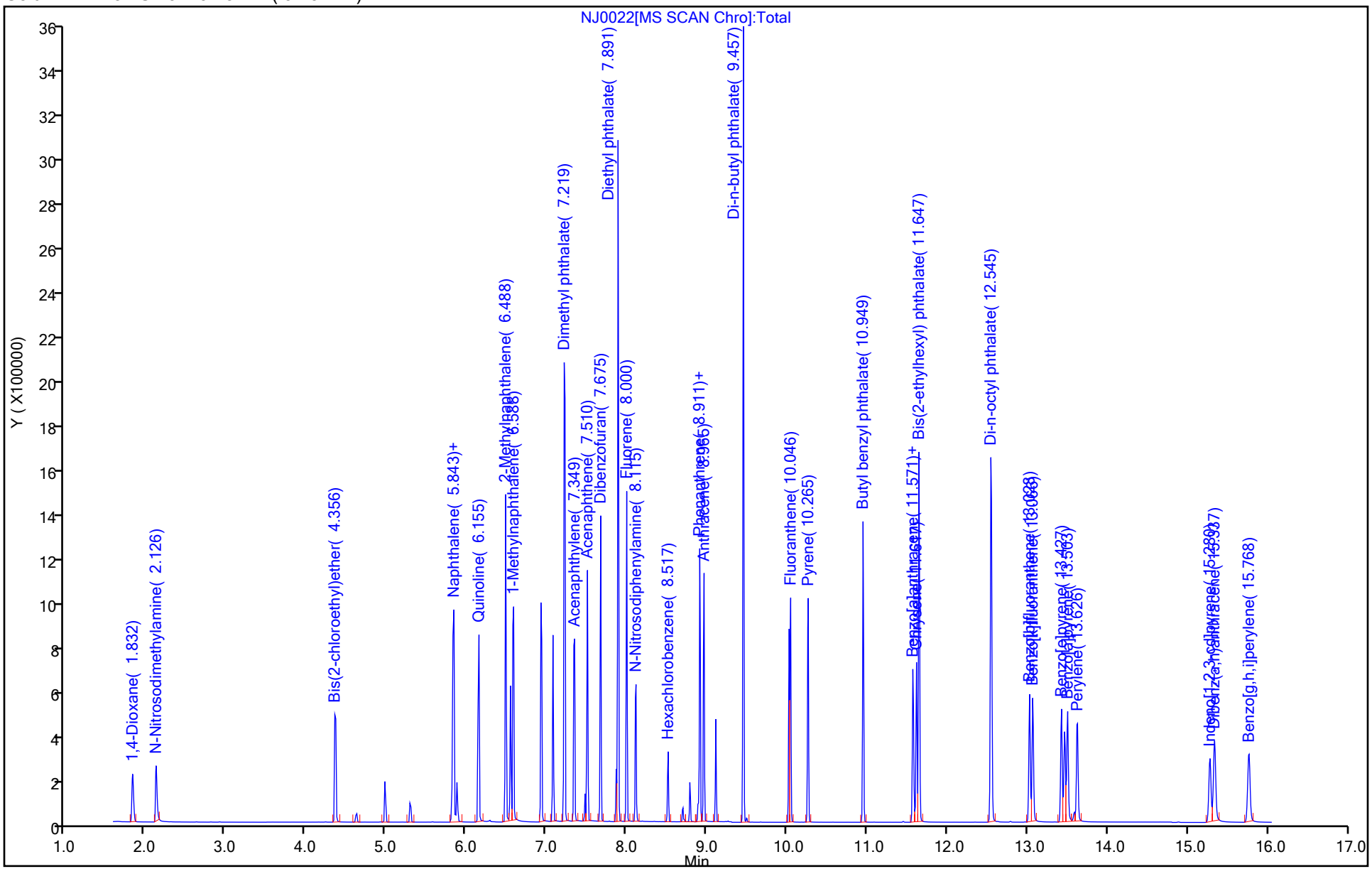
Lims ID: IC L6 Worklist Smp#: 3

Client ID:

Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 3

Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0023.D
Lims ID: IC L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 05-Oct-2022 10:37:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L5
Misc. Info.: 410-0067959-004
Operator ID: jmg00346 Instrument ID: HP23263
Sublist: chrom-8270_SIM_HP23263*sub3

Method: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 05-Oct-2022 16:17:43 Calib Date: 05-Oct-2022 11:42:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0026.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1660

First Level Reviewer: SJ89 Date: 05-Oct-2022 15:10:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.837	1.832	0.005	95	74442	1.00	0.9553	
2 N-Nitrosodimethylamine	74	2.130	2.130	0.000	91	90768	1.00	1.03	
3 Bis(2-chloroethyl)ether	93	4.368	4.368	0.000	87	160942	1.00	0.9414	
* 4 1,4-Dichlorobenzene-d4	152	4.631	4.631	0.000	95	32844	0.2500	0.2500	
* 5 Naphthalene-d8	136	5.818	5.818	0.000	100	120604	0.2500	0.2500	
6 Naphthalene	128	5.843	5.843	0.000	99	458569	1.00	0.9386	
7 Quinoline	129	6.155	6.155	0.000	95	292485	1.00	0.9473	
8 2-Methylnaphthalene	142	6.488	6.485	0.003	100	293162	1.00	0.9429	
$ 9 1-Methylnaphthalene-d10	152	6.548	6.545	0.003	100	209734	1.00	0.9454	
10 1-Methylnaphthalene	142	6.578	6.586	-0.008	92	261376	1.00	0.9401	
11 Dimethyl phthalate	163	7.219	7.227	-0.008	99	1072961	5.00	4.60	
12 Acenaphthylene	152	7.349	7.347	0.002	97	395248	1.00	0.9407	
* 13 Acenaphthene-d10	164	7.480	7.477	0.003	92	50271	0.2500	0.2500	
14 Acenaphthene	154	7.510	7.507	0.003	95	235115	1.00	0.9310	
15 Dibenzofuran	168	7.675	7.673	0.002	96	351175	1.00	0.9237	
16 Diethyl phthalate	149	7.892	7.889	0.003	100	1056261	5.00	4.81	
17 Fluorene	166	8.000	7.997	0.003	100	265268	1.00	0.9520	
18 N-Nitrosodiphenylamine	169	8.115	8.113	0.002	94	147657	1.00	0.9450	
19 Hexachlorobenzene	284	8.517	8.514	0.003	91	80608	1.00	0.9306	
* 20 Phenanthrene-d10	188	8.888	8.893	-0.005	99	79726	0.2500	0.2500	
21 Phenanthrene	178	8.911	8.916	-0.005	100	353784	1.00	0.9365	
22 Anthracene	178	8.965	8.962	0.003	100	331891	1.00	0.9486	
23 Di-n-butyl phthalate	149	9.457	9.454	0.003	100	1439306	5.00	5.20	
$ 24 Fluoranthene-d10 (Surr)	212	10.027	10.024	0.003	98	275185	1.00	0.9468	
25 Fluoranthene	202	10.046	10.043	0.003	97	332084	1.00	0.9494	
26 Pyrene	202	10.265	10.263	0.002	96	347687	1.00	0.9100	
27 Butyl benzyl phthalate	149	10.949	10.953	-0.004	100	543769	5.00	5.58	
28 Benzo[a]anthracene	228	11.571	11.574	-0.003	99	266294	1.00	0.9560	
* 29 Chrysene-d12	240	11.586	11.582	0.004	92	51154	0.2500	0.2500	
30 Chrysene	228	11.617	11.613	0.004	100	279408	1.00	0.9642	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	11.647	11.651	-0.004	100	647173	5.00	5.60	
32 Di-n-octyl phthalate	149	12.545	12.548	-0.003	100	1009725	5.00	5.58	
33 Benzo[b]fluoranthene	252	13.028	13.024	0.004	100	247630	1.00	0.9416	
34 Benzo[k]fluoranthene	252	13.066	13.070	-0.004	100	274580	1.00	0.9497	
35 Benzo[e]pyrene	252	13.427	13.423	0.004	100	241002	1.00	0.9345	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.465	13.469	-0.004	98	170067	1.00	0.9719	
37 Benzo[a]pyrene	252	13.496	13.499	-0.003	100	231529	1.00	0.9825	
* 38 Perylene-d12	264	13.588	13.584	0.004	95	45579	0.2500	0.2500	
39 Perylene	252	13.618	13.622	-0.004	100	227968	1.00	0.9503	M
40 Indeno[1,2,3-cd]pyrene	276	15.273	15.277	-0.004	98	174393	1.00	0.9322	
41 Dibenz(a,h)anthracene	278	15.337	15.334	0.003	97	191781	1.00	0.9644	
42 Benzo[g,h,i]perylene	276	15.761	15.764	-0.003	99	214033	1.00	0.9297	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_5_00018 Amount Added: 1.00 Units: mL

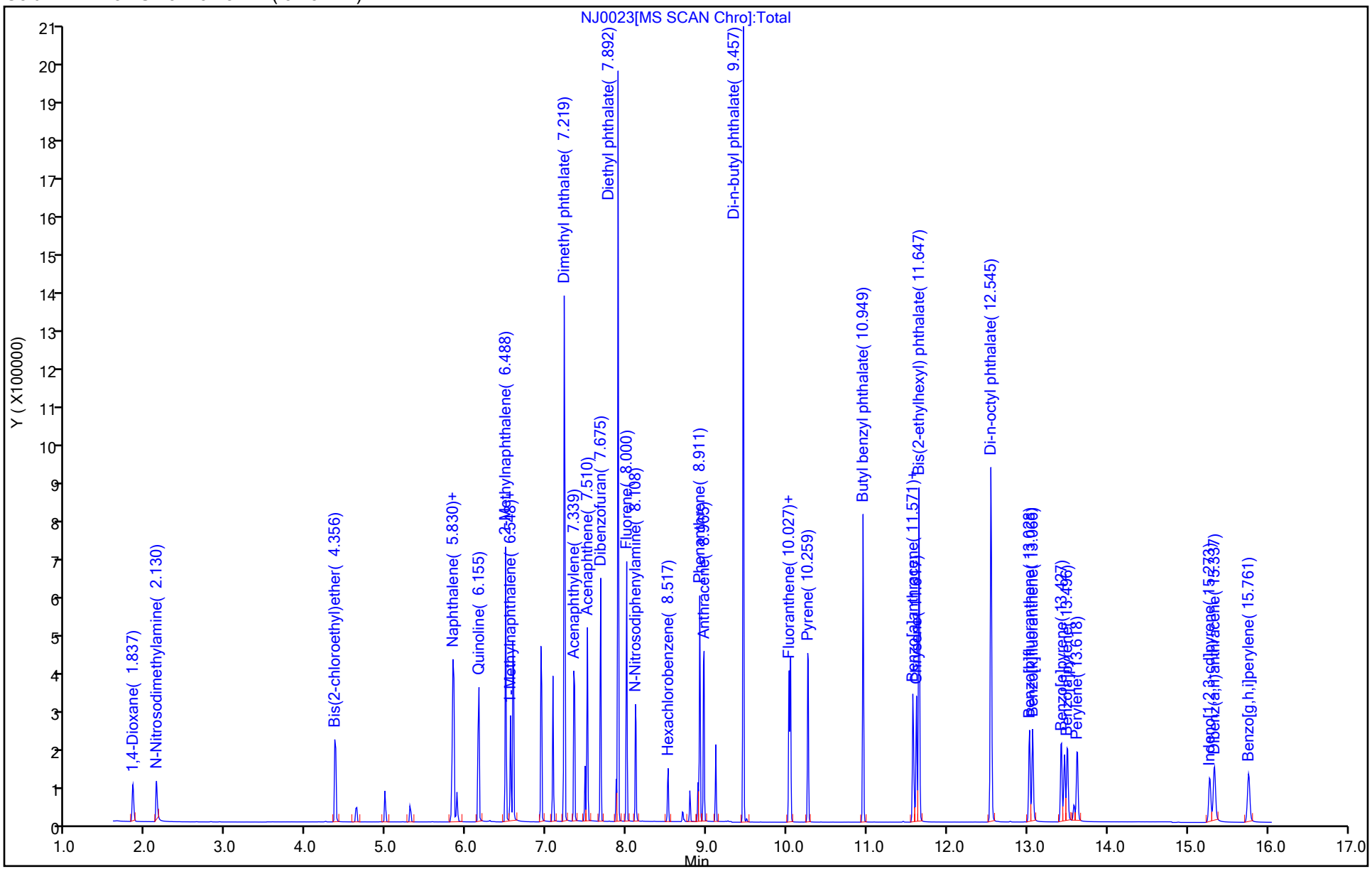
Report Date: 05-Oct-2022 16:17:44 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0023.D

Injection Date:	05-Oct-2022 10:37:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	IC L5			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

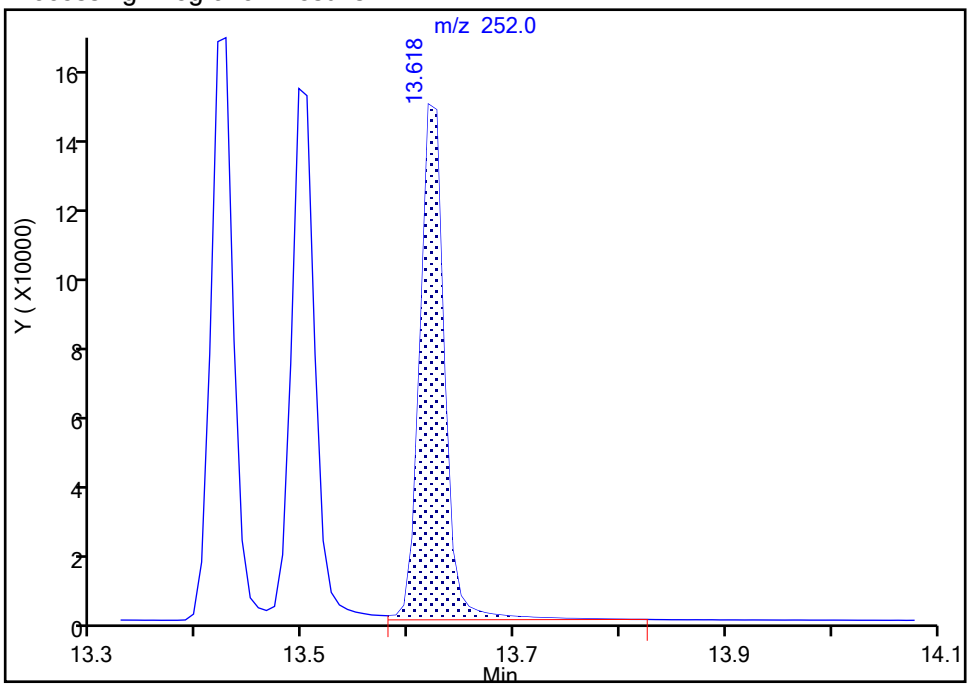
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0023.D				
Injection Date:	05-Oct-2022 10:37:30	Instrument ID:	HP23263		
Lims ID:	IC L5				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

39 Perylene, CAS: 198-55-0

Signal: 1

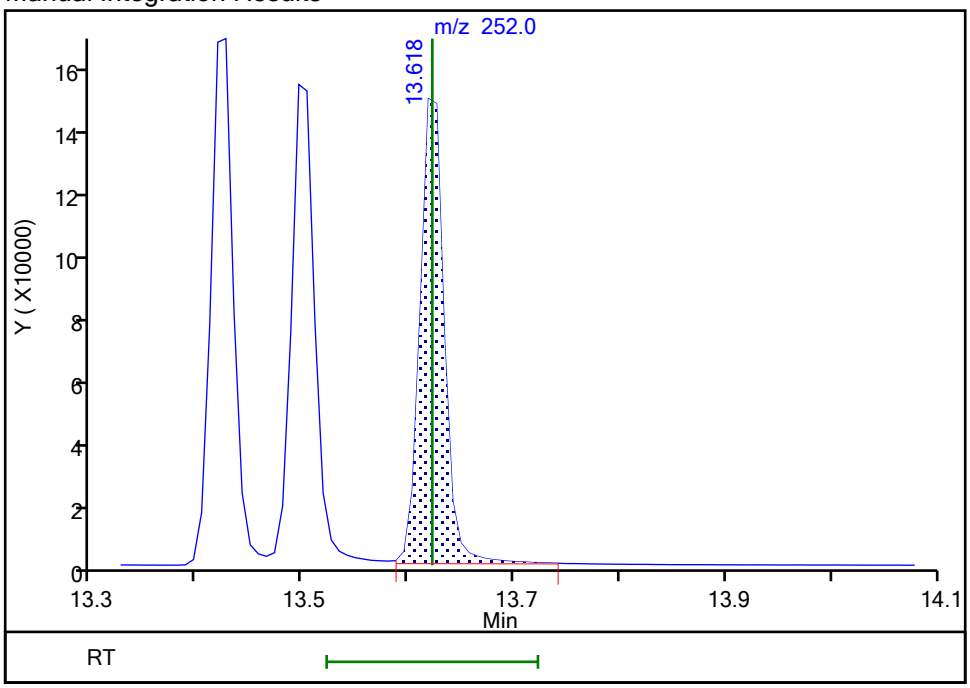
Processing Integration Results

RT: 13.62
Area: 231759
Amount: 0.963518
Amount Units: ug/ml



Manual Integration Results

RT: 13.62
Area: 227968
Amount: 0.950253
Amount Units: ug/ml



Reviewer: SJ89, 05-Oct-2022 16:11:28

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0024.D
Lims ID: IC L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 05-Oct-2022 10:59:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L3
Misc. Info.: 410-0067959-005
Operator ID: jmg00346 Instrument ID: HP23263
Sublist: chrom-8270_SIM_HP23263*sub3

Method: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 05-Oct-2022 16:17:46 Calib Date: 05-Oct-2022 11:42:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0026.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1660

First Level Reviewer: SJ89 Date: 05-Oct-2022 15:22:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.837	1.832	0.005	94	9135	0.1000	0.1057	
2 N-Nitrosodimethylamine	74	2.139	2.130	0.009	89	9708	0.1000	0.0990	
3 Bis(2-chloroethyl)ether	93	4.368	4.368	0.000	88	18669	0.1000	0.1025	
* 4 1,4-Dichlorobenzene-d4	152	4.631	4.631	0.000	94	36410	0.2500	0.2500	
* 5 Naphthalene-d8	136	5.818	5.818	0.000	100	128509	0.2500	0.2500	
6 Naphthalene	128	5.843	5.843	0.000	99	53543	0.1000	0.1028	
7 Quinoline	129	6.155	6.155	0.000	96	34113	0.1000	0.1037	
8 2-Methylnaphthalene	142	6.488	6.485	0.003	98	34851	0.1000	0.1052	
$ 9 1-Methylnaphthalene-d10	152	6.548	6.545	0.003	100	24445	0.1000	0.1034	
10 1-Methylnaphthalene	142	6.578	6.586	-0.008	90	30829	0.1000	0.1041	
11 Dimethyl phthalate	163	7.219	7.227	-0.008	100	273177	1.00	1.06	
12 Acenaphthylene	152	7.339	7.347	-0.008	99	46807	0.1000	0.1011	
* 13 Acenaphthene-d10	164	7.479	7.477	0.002	94	55379	0.2500	0.2500	
14 Acenaphthene	154	7.509	7.507	0.002	94	27656	0.1000	0.0994	
15 Dibenzofuran	168	7.675	7.673	0.002	96	42489	0.1000	0.1015	
16 Diethyl phthalate	149	7.891	7.889	0.002	99	258647	1.00	1.07	
17 Fluorene	166	7.999	7.997	0.002	100	30958	0.1000	0.1009	
18 N-Nitrosodiphenylamine	169	8.108	8.113	-0.005	98	17562	0.1000	0.1008	
19 Hexachlorobenzene	284	8.517	8.514	0.003	90	9438	0.1000	0.0977	
* 20 Phenanthrene-d10	188	8.888	8.893	-0.005	99	88938	0.2500	0.2500	
21 Phenanthrene	178	8.911	8.916	-0.005	100	42953	0.1000	0.1019	
22 Anthracene	178	8.965	8.962	0.003	100	39213	0.1000	0.1005	
23 Di-n-butyl phthalate	149	9.456	9.454	0.002	100	330240	1.00	1.07	
$ 24 Fluoranthene-d10 (Surr)	212	10.027	10.024	0.003	97	34121	0.1000	0.1052	
25 Fluoranthene	202	10.046	10.043	0.003	97	41133	0.1000	0.1054	
26 Pyrene	202	10.265	10.263	0.002	95	41521	0.1000	0.0997	
27 Butyl benzyl phthalate	149	10.949	10.953	-0.004	100	105730	1.00	1.00	
28 Benzo[a]anthracene	228	11.571	11.574	-0.003	99	29879	0.1000	0.0984	
* 29 Chrysene-d12	240	11.586	11.582	0.004	84	55755	0.2500	0.2500	
30 Chrysene	228	11.617	11.613	0.004	100	31297	0.1000	0.0991	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	11.647	11.651	-0.004	99	124912	1.00	0.99	
32 Di-n-octyl phthalate	149	12.545	12.548	-0.003	100	186250	1.00	1.05	
33 Benzo[b]fluoranthene	252	13.028	13.024	0.004	100	26541	0.1000	0.1029	
34 Benzo[k]fluoranthene	252	13.066	13.070	-0.004	100	29967	0.1000	0.1057	
35 Benzo[e]pyrene	252	13.427	13.423	0.004	100	26523	0.1000	0.1048	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.465	13.469	-0.004	97	17475	0.1000	0.1018	
37 Benzo[a]pyrene	252	13.496	13.499	-0.003	100	23830	0.1000	0.1031	
* 38 Perylene-d12	264	13.580	13.584	-0.004	98	44708	0.2500	0.2500	
39 Perylene	252	13.618	13.622	-0.004	100	24237	0.1000	0.1030	M
40 Indeno[1,2,3-cd]pyrene	276	15.273	15.277	-0.004	97	18397	0.1000	0.1003	
41 Dibenz(a,h)anthracene	278	15.330	15.334	-0.004	98	20174	0.1000	0.1034	
42 Benzo[g,h,i]perylene	276	15.761	15.764	-0.003	98	23513	0.1000	0.1041	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_3_00017 Amount Added: 1.00 Units: mL

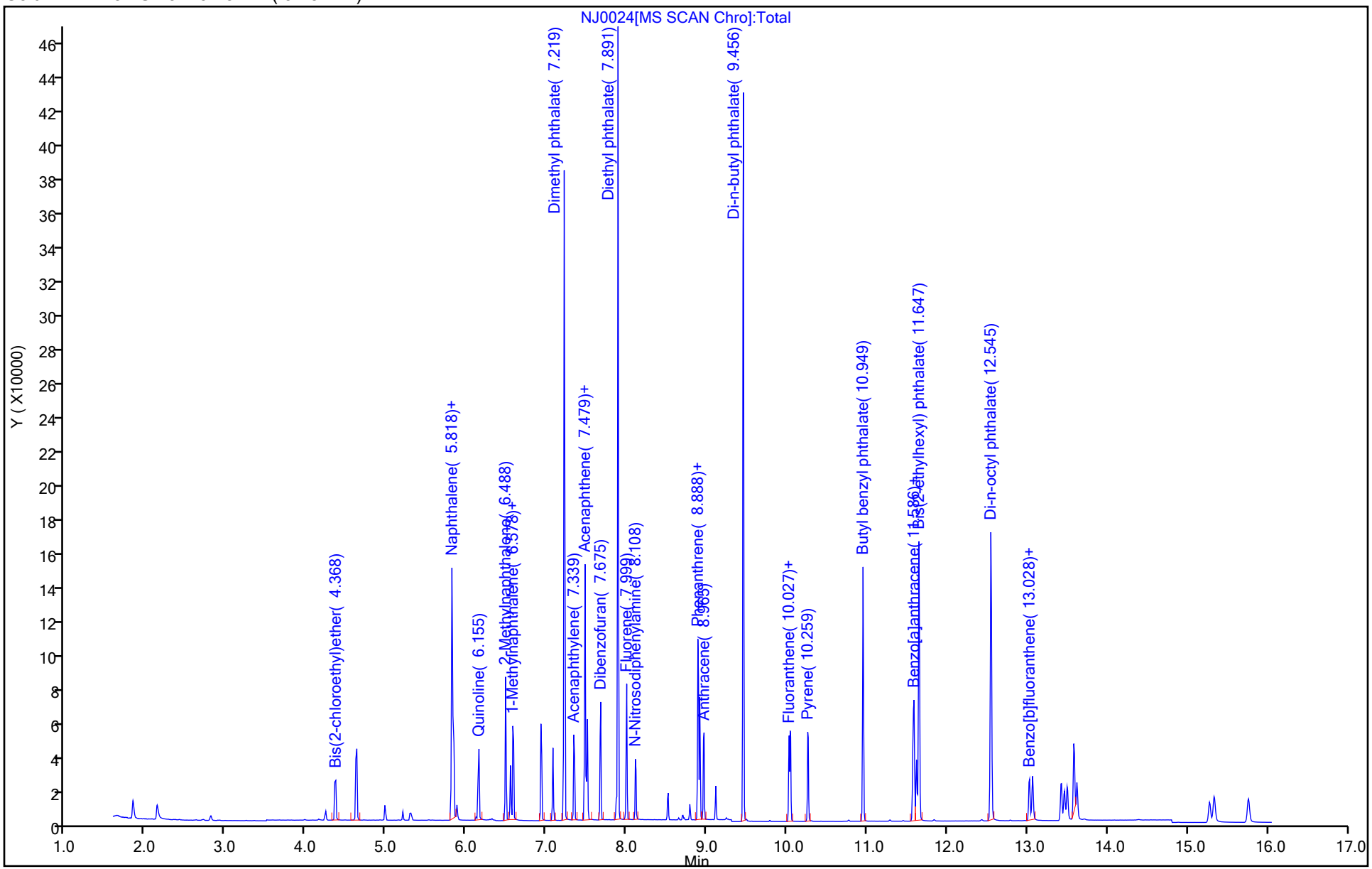
Report Date: 05-Oct-2022 16:17:47 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0024.D

Injection Date:	05-Oct-2022 10:59:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	IC L3			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

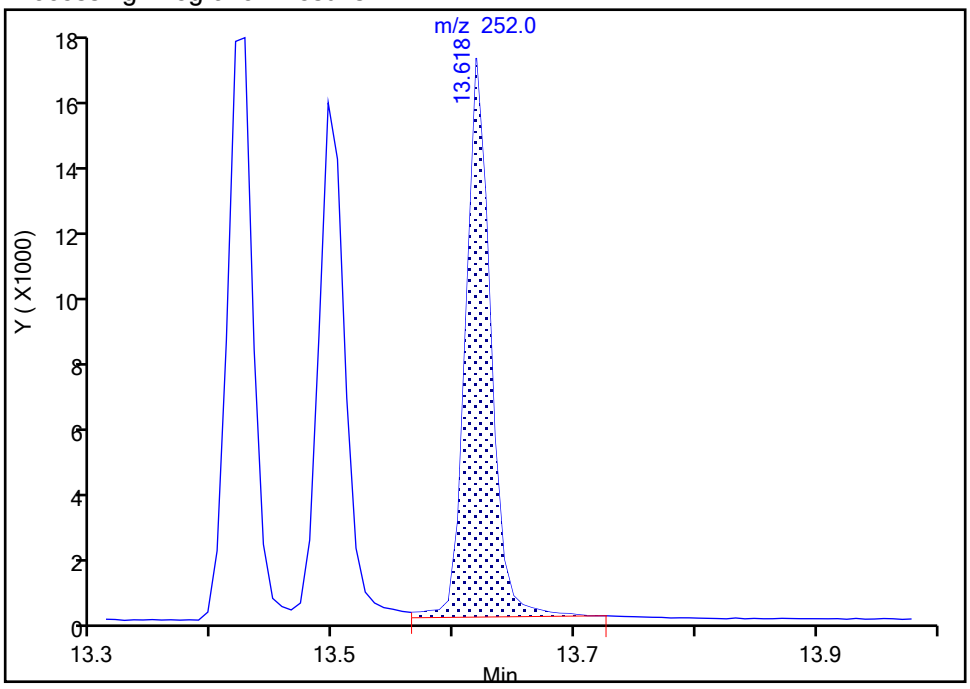
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0024.D				
Injection Date:	05-Oct-2022 10:59:30	Instrument ID:	HP23263		
Lims ID:	IC L3				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

39 Perylene, CAS: 198-55-0

Signal: 1

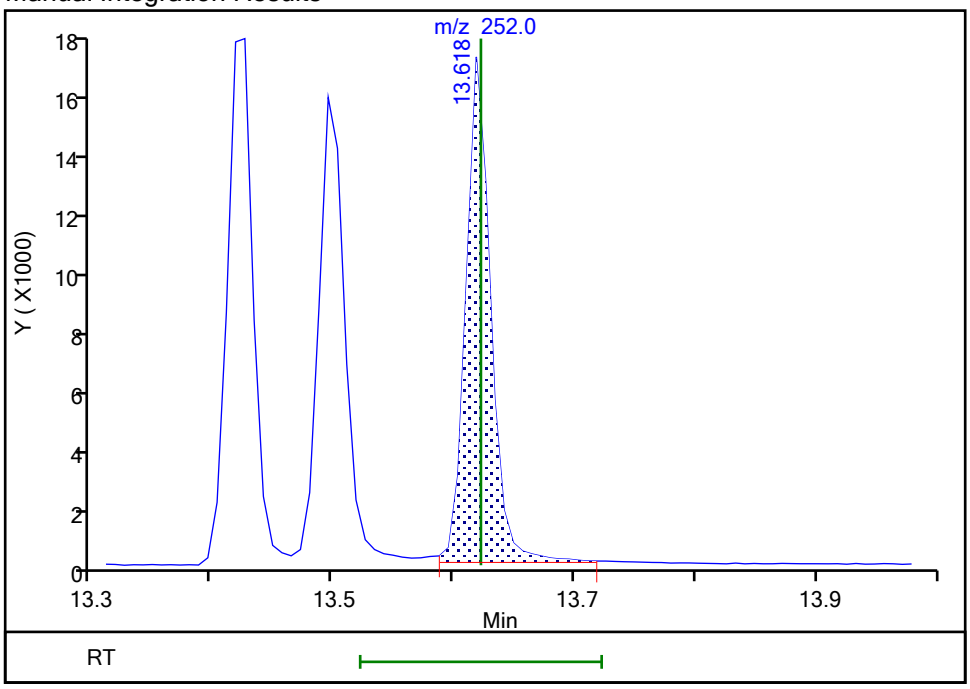
Processing Integration Results

RT: 13.62
Area: 24365
Amount: 0.103176
Amount Units: ug/ml



Manual Integration Results

RT: 13.62
Area: 24237
Amount: 0.102997
Amount Units: ug/ml



Reviewer: SJ89, 05-Oct-2022 16:11:03

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0025.D
Lims ID: IC L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 05-Oct-2022 11:20:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L2
Misc. Info.: 410-0067959-006
Operator ID: jmg00346 Instrument ID: HP23263
Sublist: chrom-8270_SIM_HP23263*sub3

Method: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 05-Oct-2022 16:17:49 Calib Date: 05-Oct-2022 11:42:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0026.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1660

First Level Reviewer: SJ89 Date: 05-Oct-2022 15:43:15

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.845	1.832	0.013	98	4102	0.0500	0.0513	
2 N-Nitrosodimethylamine	74	2.148	2.130	0.018	90	4245	0.0500	0.0468	
3 Bis(2-chloroethyl)ether	93	4.368	4.368	0.000	88	8422	0.0500	0.0489	
* 4 1,4-Dichlorobenzene-d4	152	4.631	4.631	-0.001	94	33712	0.2500	0.2500	
* 5 Naphthalene-d8	136	5.818	5.818	0.000	100	121595	0.2500	0.2500	
6 Naphthalene	128	5.843	5.843	0.000	99	25291	0.0500	0.0513	
7 Quinoline	129	6.155	6.155	0.000	96	15556	0.0500	0.0500	
8 2-Methylnaphthalene	142	6.488	6.485	0.003	97	16133	0.0500	0.0515	
$ 9 1-Methylnaphthalene-d10	152	6.548	6.545	0.003	100	11119	0.0500	0.0497	
10 1-Methylnaphthalene	142	6.588	6.586	0.002	96	14526	0.0500	0.0518	
11 Dimethyl phthalate	163	7.219	7.227	-0.008	100	129781	0.5000	0.5596	
12 Acenaphthylene	152	7.349	7.347	0.002	97	21258	0.0500	0.0509	
* 13 Acenaphthene-d10	164	7.479	7.477	0.002	93	49963	0.2500	0.2500	
14 Acenaphthene	154	7.509	7.507	0.002	94	12683	0.0500	0.0505	
15 Dibenzofuran	168	7.675	7.673	0.002	96	19511	0.0500	0.0516	
16 Diethyl phthalate	149	7.891	7.889	0.002	100	119389	0.5000	0.5474	
17 Fluorene	166	7.999	7.997	0.002	99	13814	0.0500	0.0499	
18 N-Nitrosodiphenylamine	169	8.107	8.113	-0.006	98	7909	0.0500	0.0507	
19 Hexachlorobenzene	284	8.517	8.514	0.003	90	4452	0.0500	0.0515	
* 20 Phenanthrene-d10	188	8.887	8.893	-0.006	99	79622	0.2500	0.2500	
21 Phenanthrene	178	8.911	8.916	-0.005	100	19051	0.0500	0.0505	
22 Anthracene	178	8.965	8.962	0.003	100	17618	0.0500	0.0504	
23 Di-n-butyl phthalate	149	9.456	9.454	0.002	100	143881	0.5000	0.5206	
$ 24 Fluoranthene-d10 (Surr)	212	10.027	10.024	0.003	97	15108	0.0500	0.0520	
25 Fluoranthene	202	10.046	10.043	0.003	97	17710	0.0500	0.0507	
26 Pyrene	202	10.265	10.263	0.002	96	18082	0.0500	0.0510	
27 Butyl benzyl phthalate	149	10.949	10.953	-0.004	100	41751	0.5000	0.4616	
28 Benzo[a]anthracene	228	11.570	11.574	-0.004	95	12517	0.0500	0.0484	
* 29 Chrysene-d12	240	11.586	11.582	0.004	83	47483	0.2500	0.2500	
30 Chrysene	228	11.616	11.613	0.003	100	13288	0.0500	0.0494	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	11.647	11.651	-0.004	99	48036	0.5000	0.4475	
32 Di-n-octyl phthalate	149	12.544	12.548	-0.004	100	71287	0.5000	0.4637	
33 Benzo[b]fluoranthene	252	13.028	13.024	0.004	100	11413	0.0500	0.0511	
34 Benzo[k]fluoranthene	252	13.066	13.070	-0.004	100	12604	0.0500	0.0513	
35 Benzo[e]pyrene	252	13.419	13.423	-0.004	100	11321	0.0500	0.0516	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.465	13.469	-0.004	97	7624	0.0500	0.0513	
37 Benzo[a]pyrene	252	13.496	13.499	-0.003	100	10027	0.0500	0.0501	
* 38 Perylene-d12	264	13.580	13.584	-0.004	99	38743	0.2500	0.2500	
39 Perylene	252	13.618	13.622	-0.004	100	10364	0.0500	0.0508	M
40 Indeno[1,2,3-cd]pyrene	276	15.273	15.277	-0.004	97	7833	0.0500	0.0493	
41 Dibenz(a,h)anthracene	278	15.337	15.334	0.003	97	8224	0.0500	0.0487	
42 Benzo[g,h,i]perylene	276	15.761	15.764	-0.003	98	9901	0.0500	0.0506	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_2_00018 Amount Added: 1.00 Units: mL

Report Date: 05-Oct-2022 16:17:50 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0025.D

Injection Date: 05-Oct-2022 11:20:30 Instrument ID: HP23263 Operator ID: jmg00346

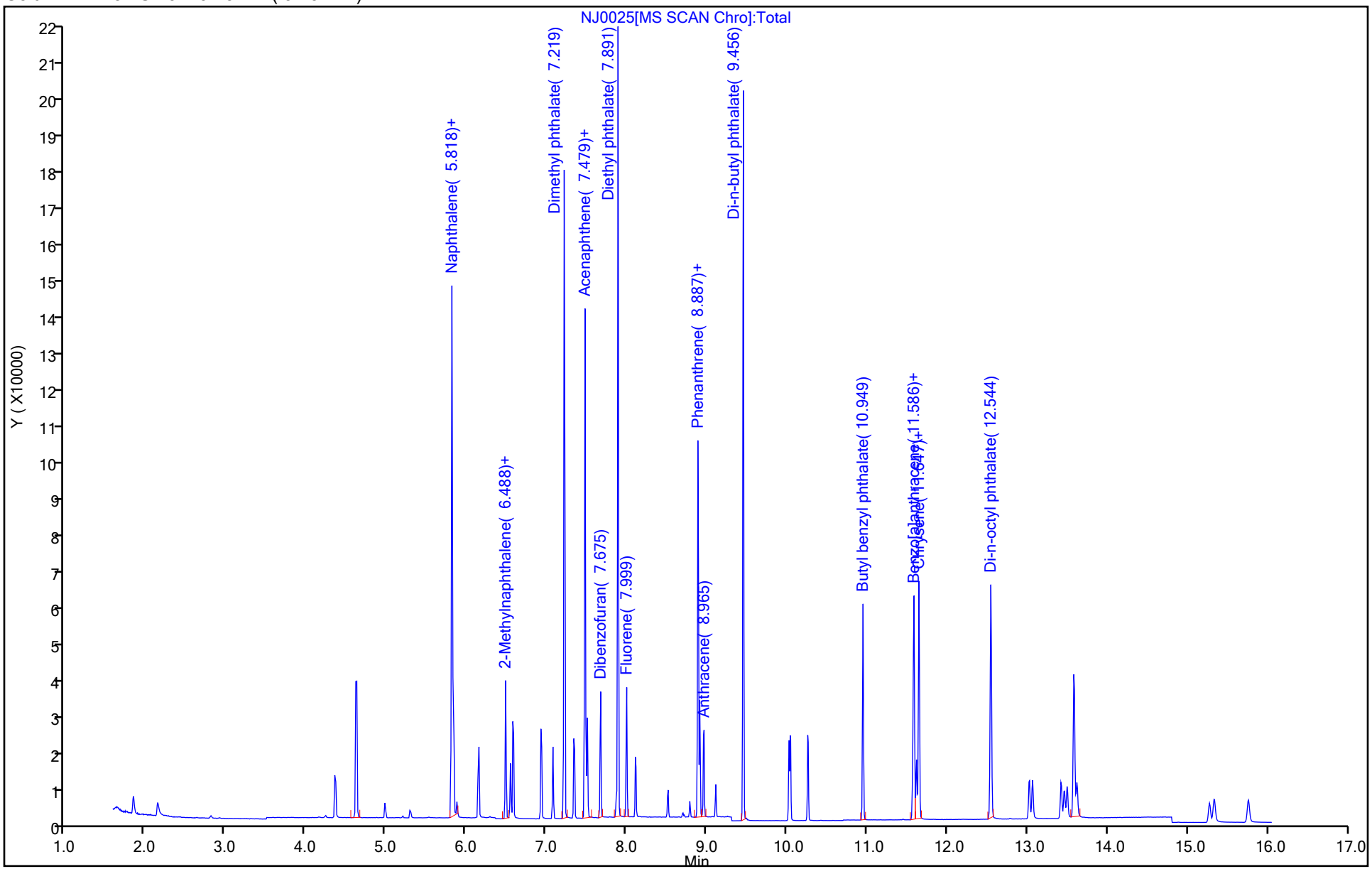
Lims ID: IC L2 Worklist Smp#: 6

Client ID:

Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 6

Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

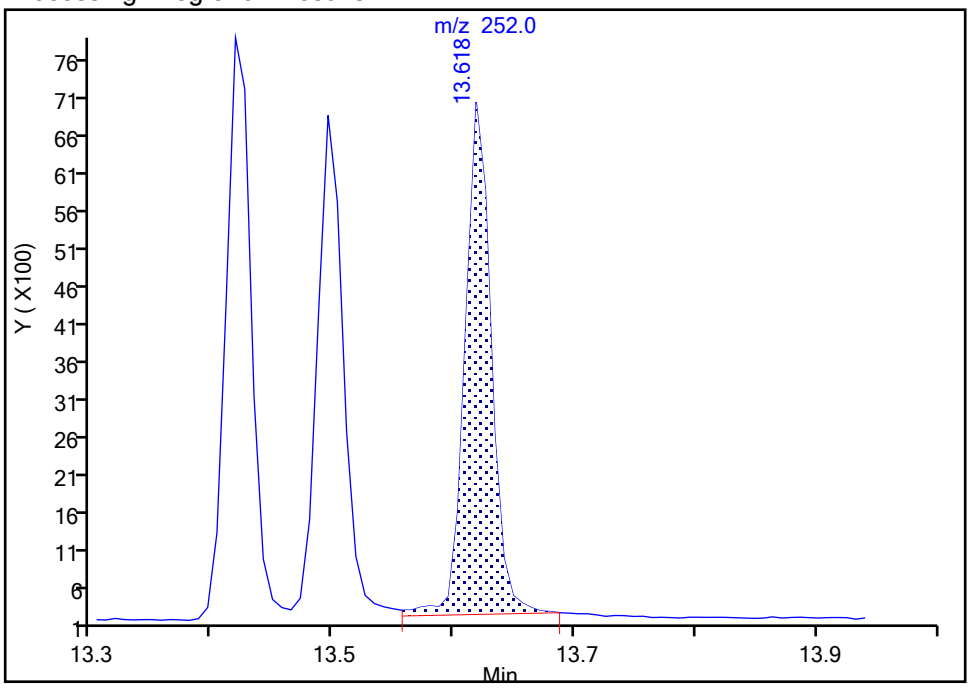
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0025.D				
Injection Date:	05-Oct-2022 11:20:30	Instrument ID:	HP23263		
Lims ID:	IC L2				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

39 Perylene, CAS: 198-55-0

Signal: 1

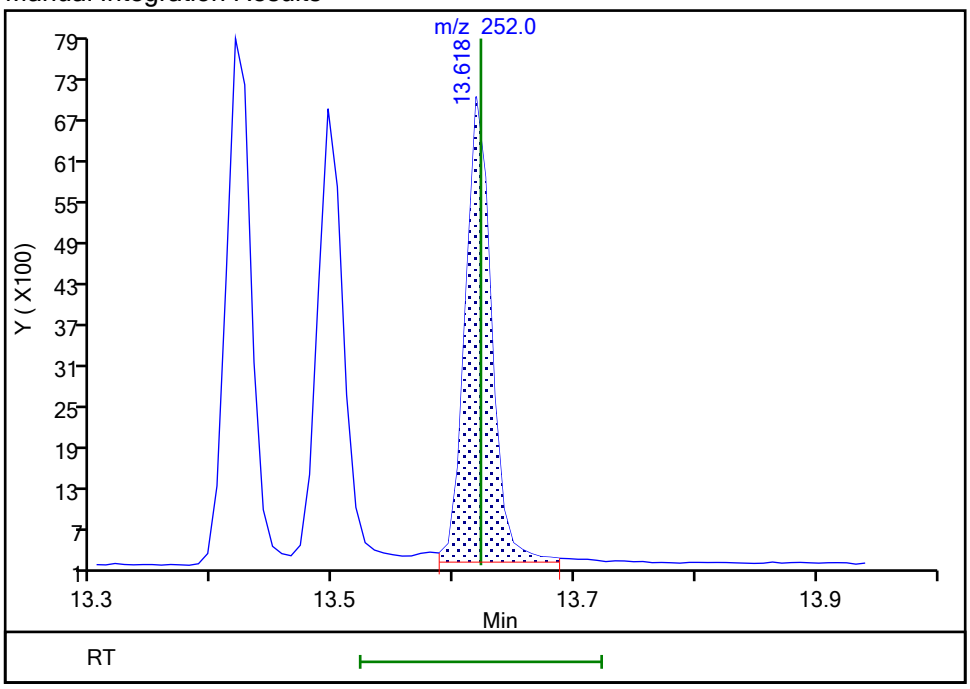
Processing Integration Results

RT: 13.62
Area: 10319
Amount: 0.050461
Amount Units: ug/ml



Manual Integration Results

RT: 13.62
Area: 10364
Amount: 0.050823
Amount Units: ug/ml



Reviewer: SJ89, 05-Oct-2022 16:10:40

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0026.D
Lims ID: IC L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 05-Oct-2022 11:42:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L1
Misc. Info.: 410-0067959-007
Operator ID: jmg00346 Instrument ID: HP23263
Sublist: chrom-8270_SIM_HP23263*sub3

Method: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 05-Oct-2022 16:17:53 Calib Date: 05-Oct-2022 11:42:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0026.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1660

First Level Reviewer: SJ89 Date: 05-Oct-2022 15:55:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.858	1.858	0.000	92	1195	0.0100	0.0152	
2 N-Nitrosodimethylamine	74	2.161	2.161	0.000	86	844	0.0100	0.009444	
3 Bis(2-chloroethyl)ether	93	4.368	4.368	0.000	88	1806	0.0100	0.0108	
* 4 1,4-Dichlorobenzene-d4	152	4.631	4.631	0.000	94	33184	0.2500	0.2500	
* 5 Naphthalene-d8	136	5.818	5.818	0.000	100	118089	0.2500	0.2500	
6 Naphthalene	128	5.830	5.830	0.000	41	5302	0.0100	0.0111	
7 Quinoline	129	6.155	6.155	0.000	96	3258	0.0100	0.0108	
8 2-Methylnaphthalene	142	6.488	6.488	0.000	98	3306	0.0100	0.0109	
$ 9 1-Methylnaphthalene-d10	152	6.548	6.548	0.000	100	2389	0.0100	0.0110	
10 1-Methylnaphthalene	142	6.578	6.578	0.000	91	3010	0.0100	0.0111	
11 Dimethyl phthalate	163	7.219	7.219	0.000	100	21756	0.1000	0.0925	
12 Acenaphthylene	152	7.339	7.339	0.000	99	4506	0.0100	0.0106	
* 13 Acenaphthene-d10	164	7.479	7.479	0.000	93	50650	0.2500	0.2500	
14 Acenaphthene	154	7.509	7.509	0.000	69	2723	0.0100	0.0107	
15 Dibenzofuran	168	7.675	7.675	0.000	96	4037	0.0100	0.0105	
16 Diethyl phthalate	149	7.891	7.891	0.000	100	19377	0.1000	0.0876	
17 Fluorene	166	7.999	7.999	0.000	99	2882	0.0100	0.0103	
18 N-Nitrosodiphenylamine	169	8.108	8.108	0.000	99	1675	0.0100	0.0109	
19 Hexachlorobenzene	284	8.517	8.517	0.000	86	962	0.0100	0.0113	
* 20 Phenanthrene-d10	188	8.888	8.888	0.000	99	78207	0.2500	0.2500	
21 Phenanthrene	178	8.911	8.911	0.000	100	4050	0.0100	0.0109	
22 Anthracene	178	8.957	8.957	0.000	99	3588	0.0100	0.0105	
23 Di-n-butyl phthalate	149	9.450	9.450	0.000	100	21965	0.1000	0.0809	
$ 24 Fluoranthene-d10 (Surr)	212	10.027	10.027	0.000	97	2900	0.0100	0.0102	
25 Fluoranthene	202	10.046	10.046	0.000	97	3611	0.0100	0.0105	
26 Pyrene	202	10.265	10.265	0.000	95	3593	0.0100	0.0112	
27 Butyl benzyl phthalate	149	10.949	10.949	0.000	100	6072	0.1000	0.0743	
28 Benzo[a]anthracene	228	11.571	11.571	0.000	69	2481	0.0100	0.0106	
* 29 Chrysene-d12	240	11.586	11.586	0.000	82	42873	0.2500	0.2500	
30 Chrysene	228	11.617	11.617	0.000	100	2613	0.0100	0.0108	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	11.647	11.647	0.000	99	7059	0.1000	0.0728	
32 Di-n-octyl phthalate	149	12.545	12.545	0.000	100	10075	0.1000	0.0709	
33 Benzo[b]fluoranthene	252	13.028	13.028	0.000	100	2190	0.0100	0.0106	
34 Benzo[k]fluoranthene	252	13.066	13.066	0.000	100	2541	0.0100	0.0112	
35 Benzo[e]pyrene	252	13.419	13.419	0.000	100	2189	0.0100	0.0108	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.465	13.465	0.000	97	1367	0.0100	0.0099	
37 Benzo[a]pyrene	252	13.496	13.496	0.000	99	1892	0.0100	0.0102	
* 38 Perylene-d12	264	13.588	13.588	0.000	95	35794	0.2500	0.2500	
39 Perylene	252	13.618	13.618	0.000	100	2018	0.0100	0.0107	M
40 Indeno[1,2,3-cd]pyrene	276	15.273	15.273	0.000	98	1586	0.0100	0.0108	M
41 Dibenz(a,h)anthracene	278	15.337	15.337	0.000	98	1540	0.0100	0.009861	
42 Benzo[g,h,i]perylene	276	15.761	15.761	0.000	98	1903	0.0100	0.0105	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_1_00018 Amount Added: 1.00 Units: mL

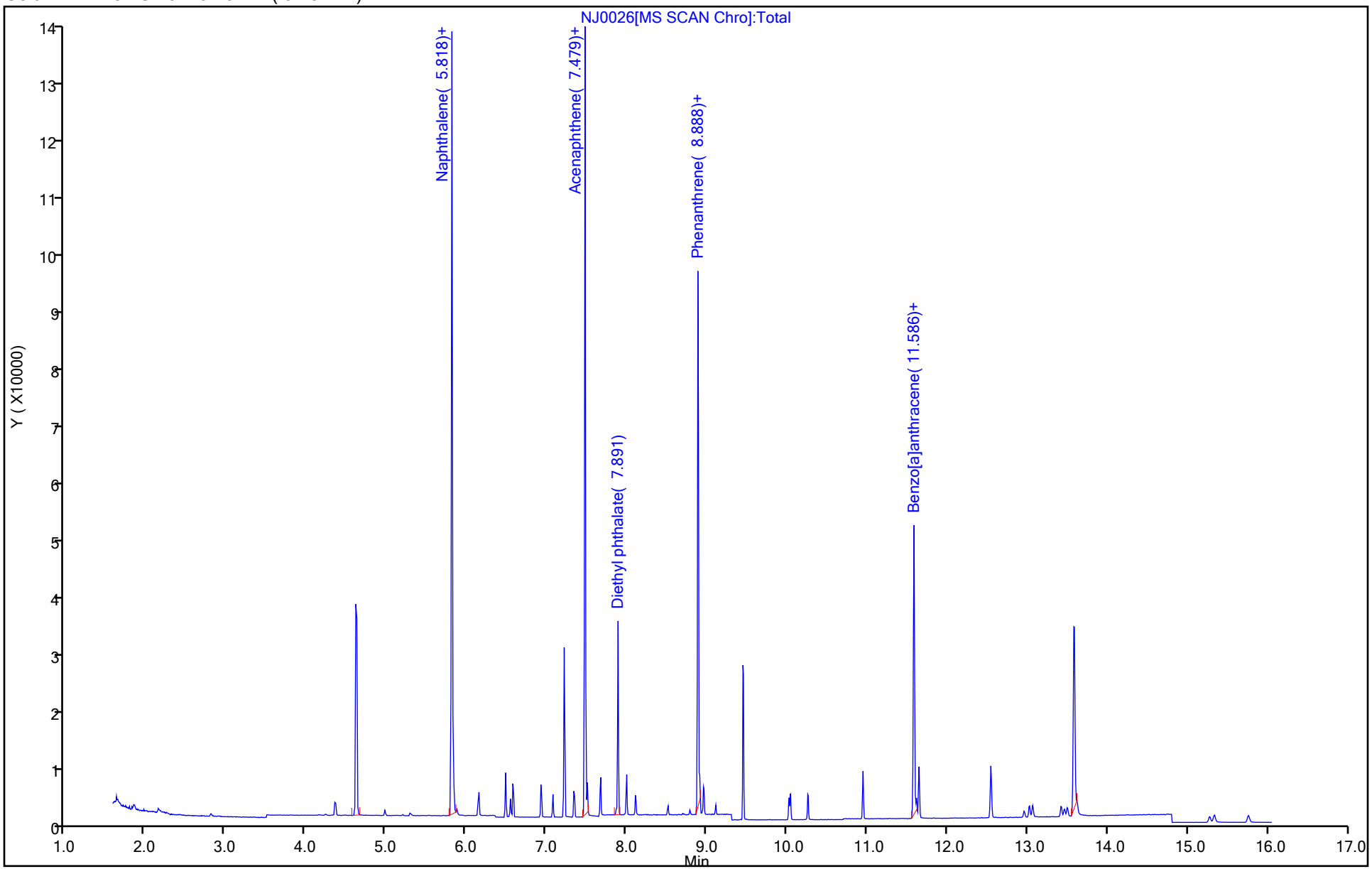
Report Date: 05-Oct-2022 16:17:53 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0026.D

Injection Date:	05-Oct-2022 11:42:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	IC L1			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

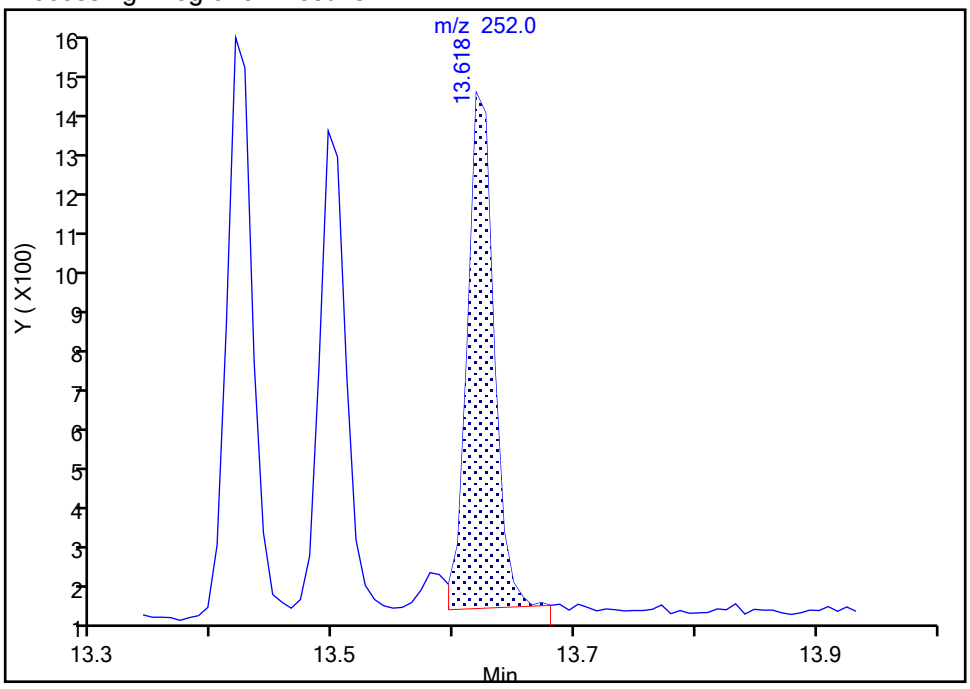
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0026.D				
Injection Date:	05-Oct-2022 11:42:30	Instrument ID:	HP23263		
Lims ID:	IC L1				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

39 Perylene, CAS: 198-55-0

Signal: 1

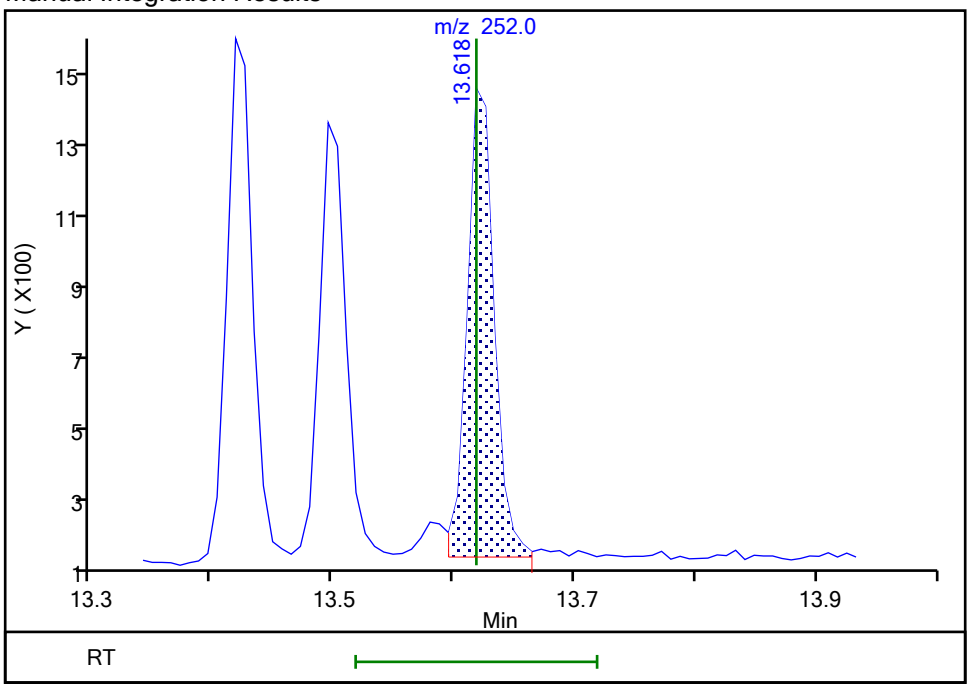
Processing Integration Results

RT: 13.62
Area: 1987
Amount: 0.010546
Amount Units: ug/ml



Manual Integration Results

RT: 13.62
Area: 2018
Amount: 0.010711
Amount Units: ug/ml



Reviewer: SJ89, 05-Oct-2022 16:10:10
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

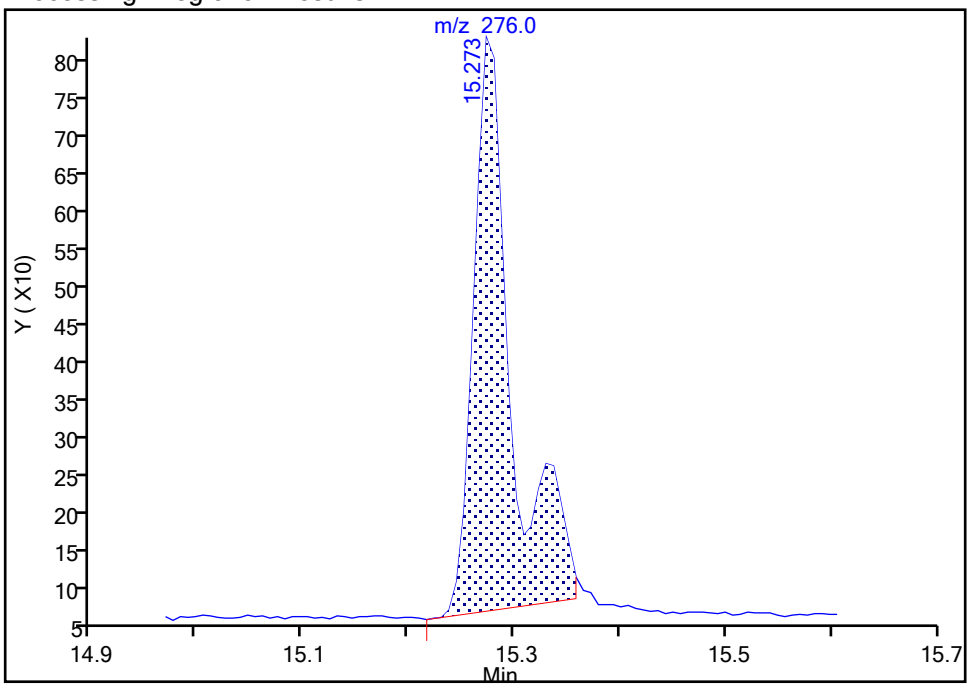
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0026.D				
Injection Date:	05-Oct-2022 11:42:30	Instrument ID:	HP23263		
Lims ID:	IC L1				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

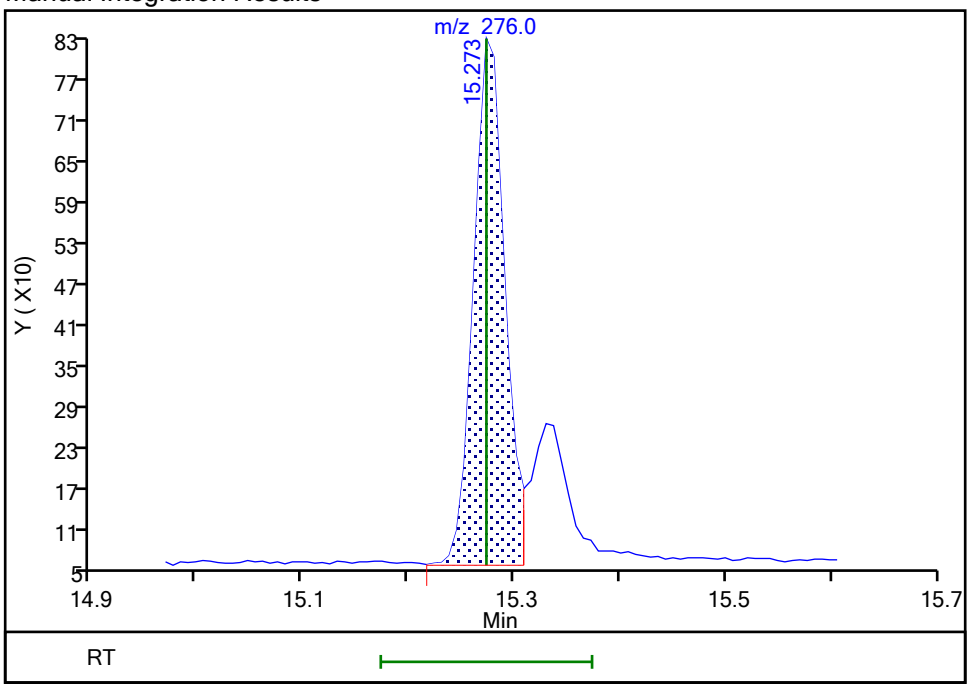
Processing Integration Results

RT: 15.27
Area: 1909
Amount: 0.012535
Amount Units: ug/ml



Manual Integration Results

RT: 15.27
Area: 1586
Amount: 0.010796
Amount Units: ug/ml



Reviewer: SJ89, 05-Oct-2022 15:43:59

Audit Action: Manually Integrated Audit Reason: Baseline

Calibration / 1,4-Dioxane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

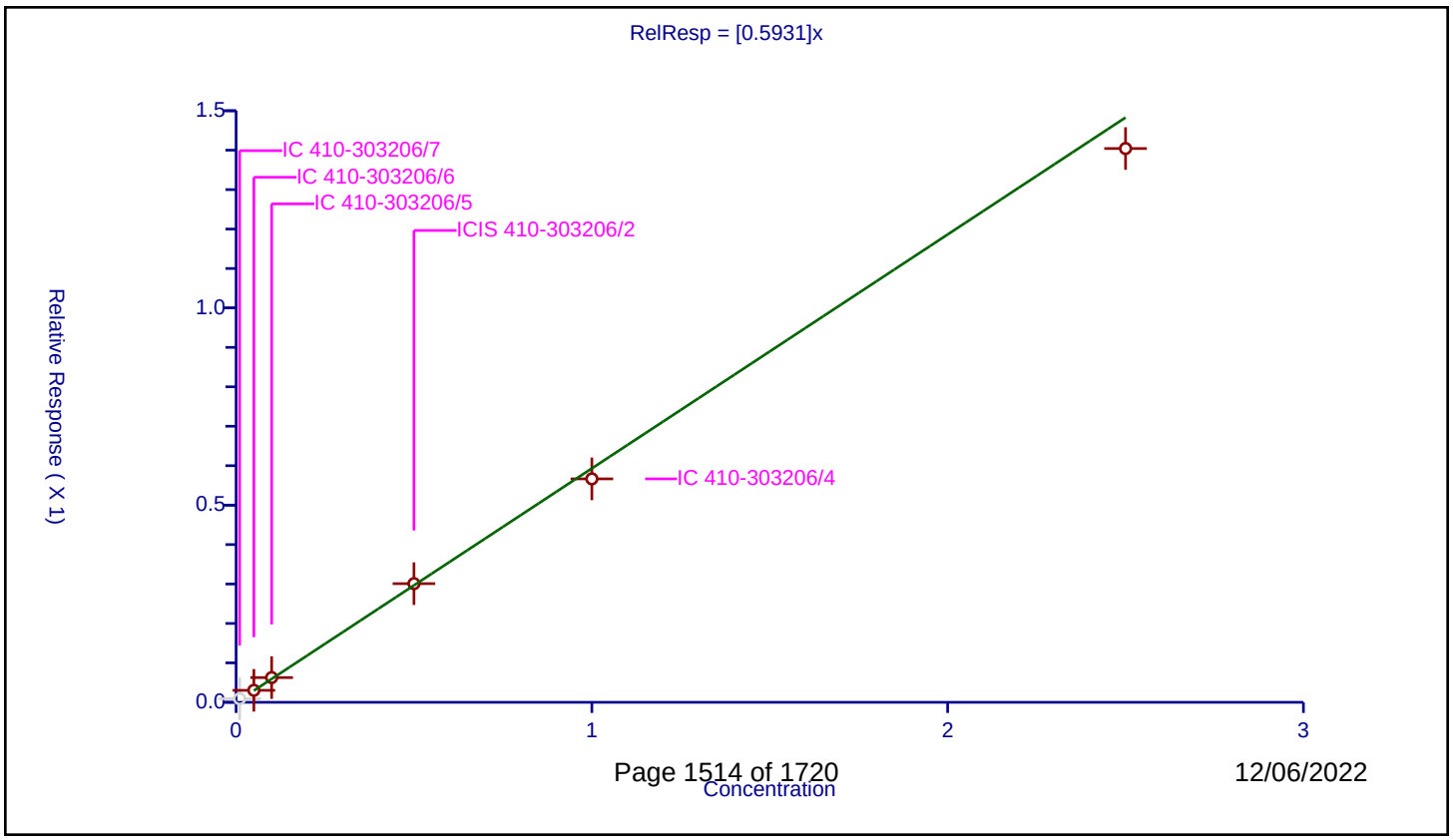
Curve Coefficients

Intercept:	0
Slope:	0.5931

Error Coefficients

Standard Error:	99600
Relative Standard Error:	4.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-303206/7	0.01	0.009003	0.25	33184.0	0.900283	N
2	IC 410-303206/6	0.05	0.030419	0.25	33712.0	0.608389	Y
3	IC 410-303206/5	0.1	0.062723	0.25	36410.0	0.627232	Y
4	ICIS 410-303206/2	0.5	0.300859	0.25	36901.0	0.601718	Y
5	IC 410-303206/4	1.0	0.566633	0.25	32844.0	0.566633	Y
6	IC 410-303206/3	2.5	1.404203	0.25	31867.0	0.561681	Y



Calibration / N-Nitrosodimethylamine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

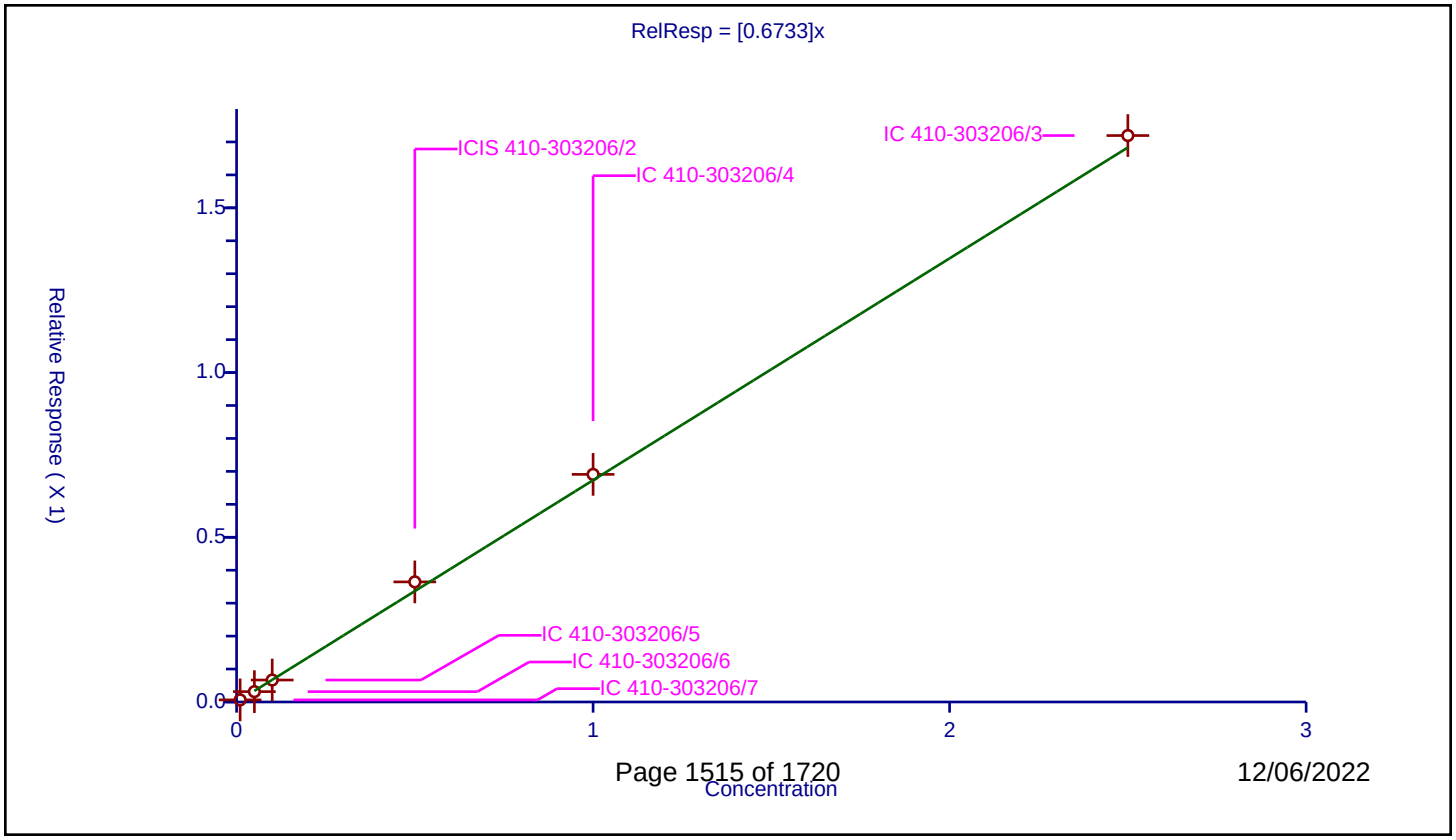
Curve Coefficients

Intercept:	0
Slope:	0.6733

Error Coefficients

Standard Error:	109000
Relative Standard Error:	5.6
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-303206/7	0.01	0.006358	0.25	33184.0	0.635849	Y
2	IC 410-303206/6	0.05	0.03148	0.25	33712.0	0.629598	Y
3	IC 410-303206/5	0.1	0.066658	0.25	36410.0	0.666575	Y
4	ICIS 410-303206/2	0.5	0.364523	0.25	36901.0	0.729045	Y
5	IC 410-303206/4	1.0	0.690902	0.25	32844.0	0.690902	Y
6	IC 410-303206/3	2.5	1.71949	0.25	31867.0	0.687796	Y



Calibration / Bis(2-chloroethyl)ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

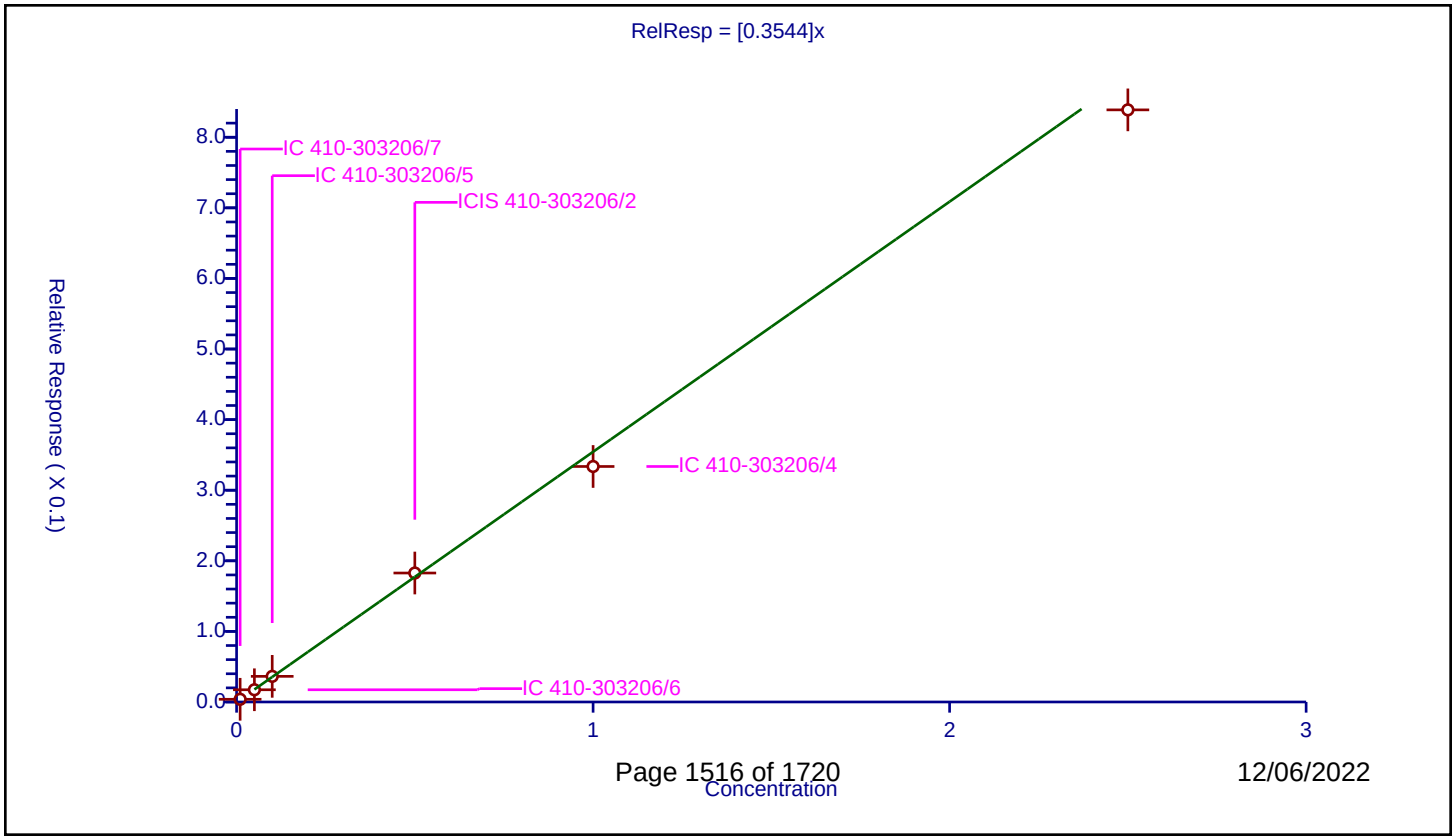
Curve Coefficients

Intercept:	0
Slope:	0.3544

Error Coefficients

Standard Error:	193000
Relative Standard Error:	5.4
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-303206/7	0.01	0.003823	0.25	118089.0	0.382339	Y
2	IC 410-303206/6	0.05	0.017316	0.25	121595.0	0.346314	Y
3	IC 410-303206/5	0.1	0.036318	0.25	128509.0	0.363185	Y
4	ICIS 410-303206/2	0.5	0.182683	0.25	132746.0	0.365367	Y
5	IC 410-303206/4	1.0	0.333617	0.25	120604.0	0.333617	Y
6	IC 410-303206/3	2.5	0.838789	0.25	115507.0	0.335516	Y



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

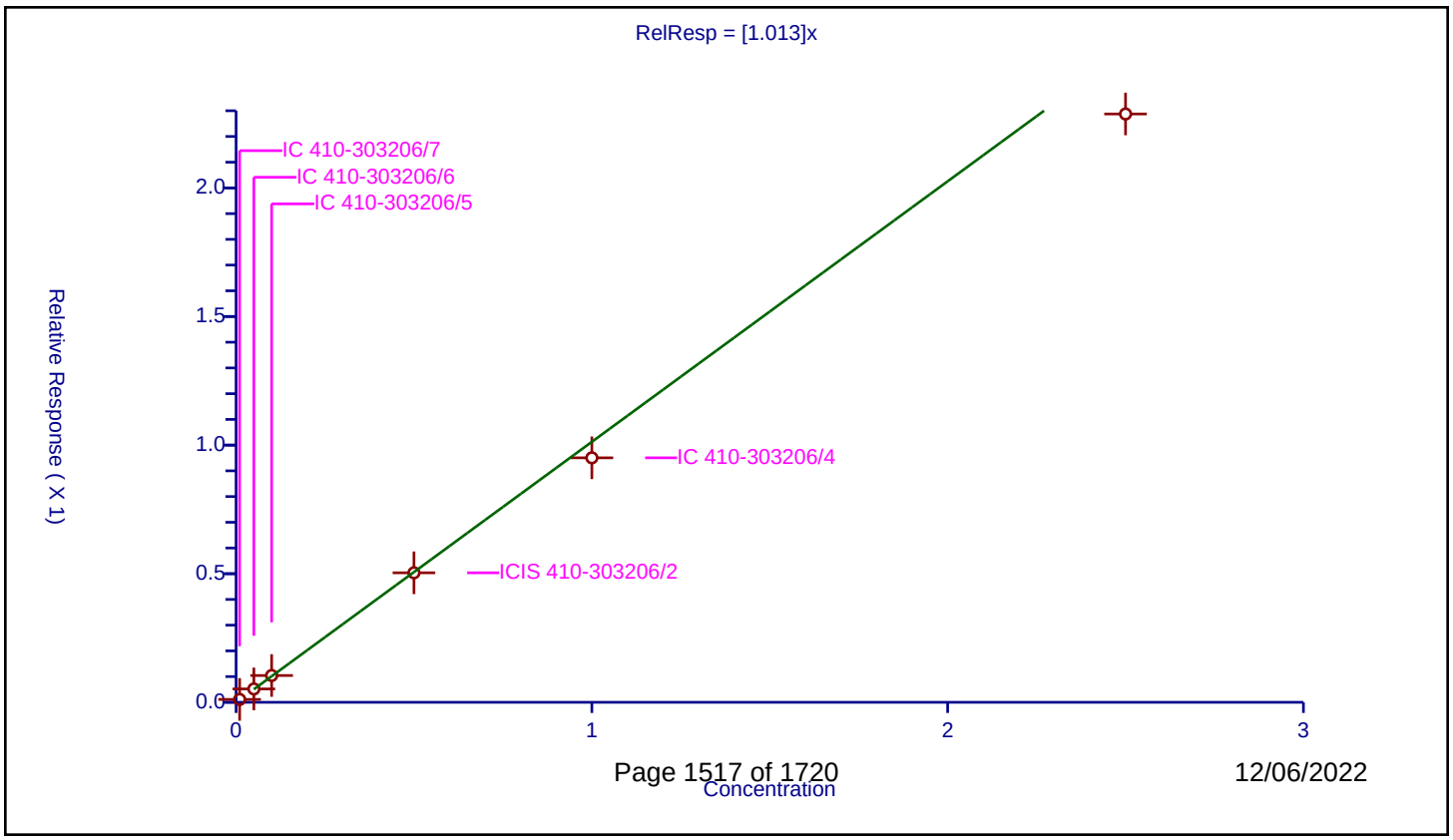
Curve Coefficients

Intercept:	0
Slope:	1.013

Error Coefficients

Standard Error:	530000
Relative Standard Error:	7.3
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-303206/7	0.01	0.011225	0.25	118089.0	1.122458	Y
2	IC 410-303206/6	0.05	0.051998	0.25	121595.0	1.039969	Y
3	IC 410-303206/5	0.1	0.104162	0.25	128509.0	1.04162	Y
4	ICIS 410-303206/2	0.5	0.503544	0.25	132746.0	1.007089	Y
5	IC 410-303206/4	1.0	0.950568	0.25	120604.0	0.950568	Y
6	IC 410-303206/3	2.5	2.287502	0.25	115507.0	0.915001	Y



Calibration / Quinoline

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

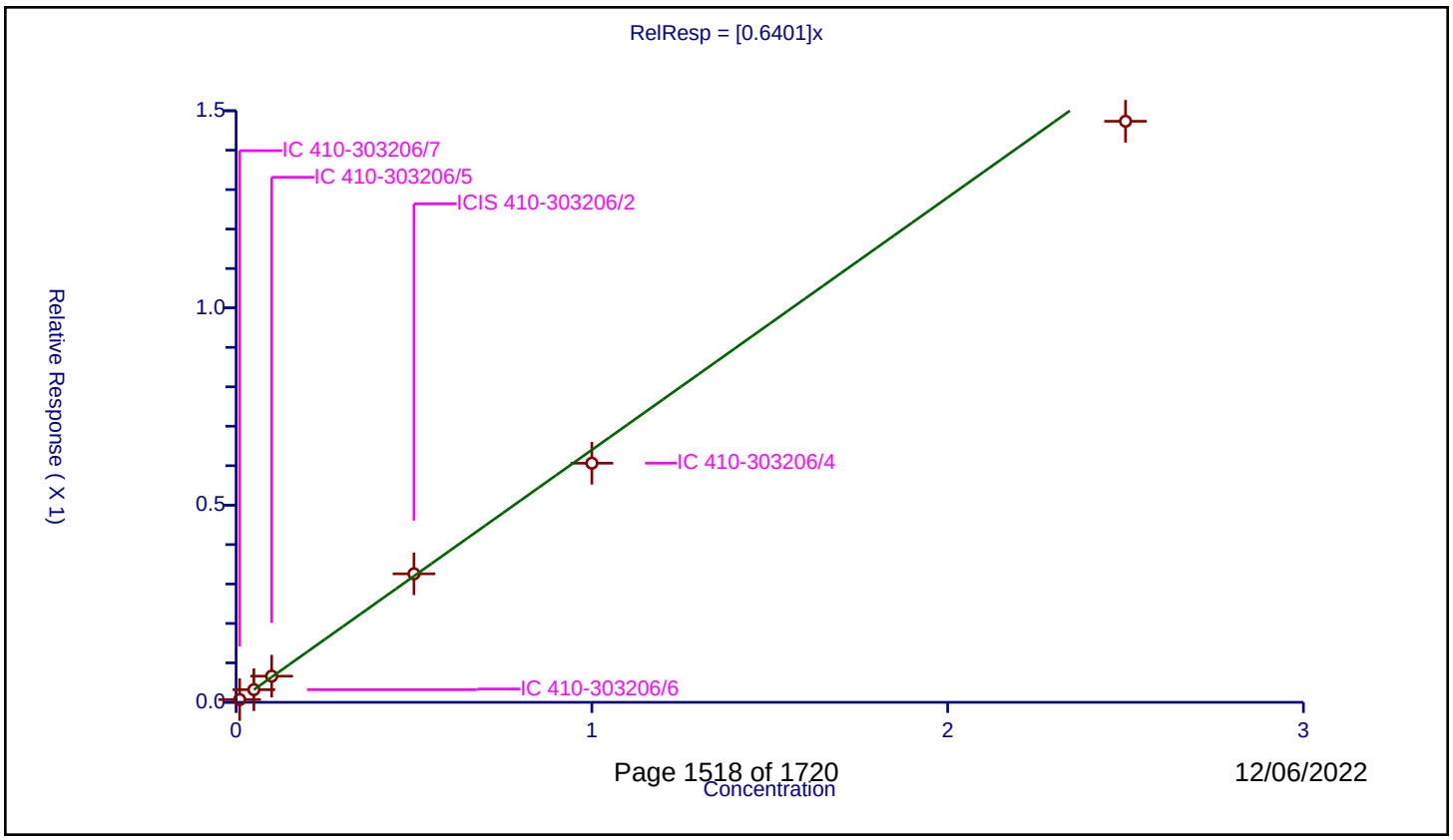
Curve Coefficients

Intercept:	0
Slope:	0.6401

Error Coefficients

Standard Error:	341000
Relative Standard Error:	5.8
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-303206/7	0.01	0.006897	0.25	118089.0	0.689734	Y
2	IC 410-303206/6	0.05	0.031983	0.25	121595.0	0.639664	Y
3	IC 410-303206/5	0.1	0.066363	0.25	128509.0	0.663631	Y
4	ICIS 410-303206/2	0.5	0.325833	0.25	132746.0	0.651666	Y
5	IC 410-303206/4	1.0	0.606292	0.25	120604.0	0.606292	Y
6	IC 410-303206/3	2.5	1.473352	0.25	115507.0	0.589341	Y



Calibration / 2-Methylnaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

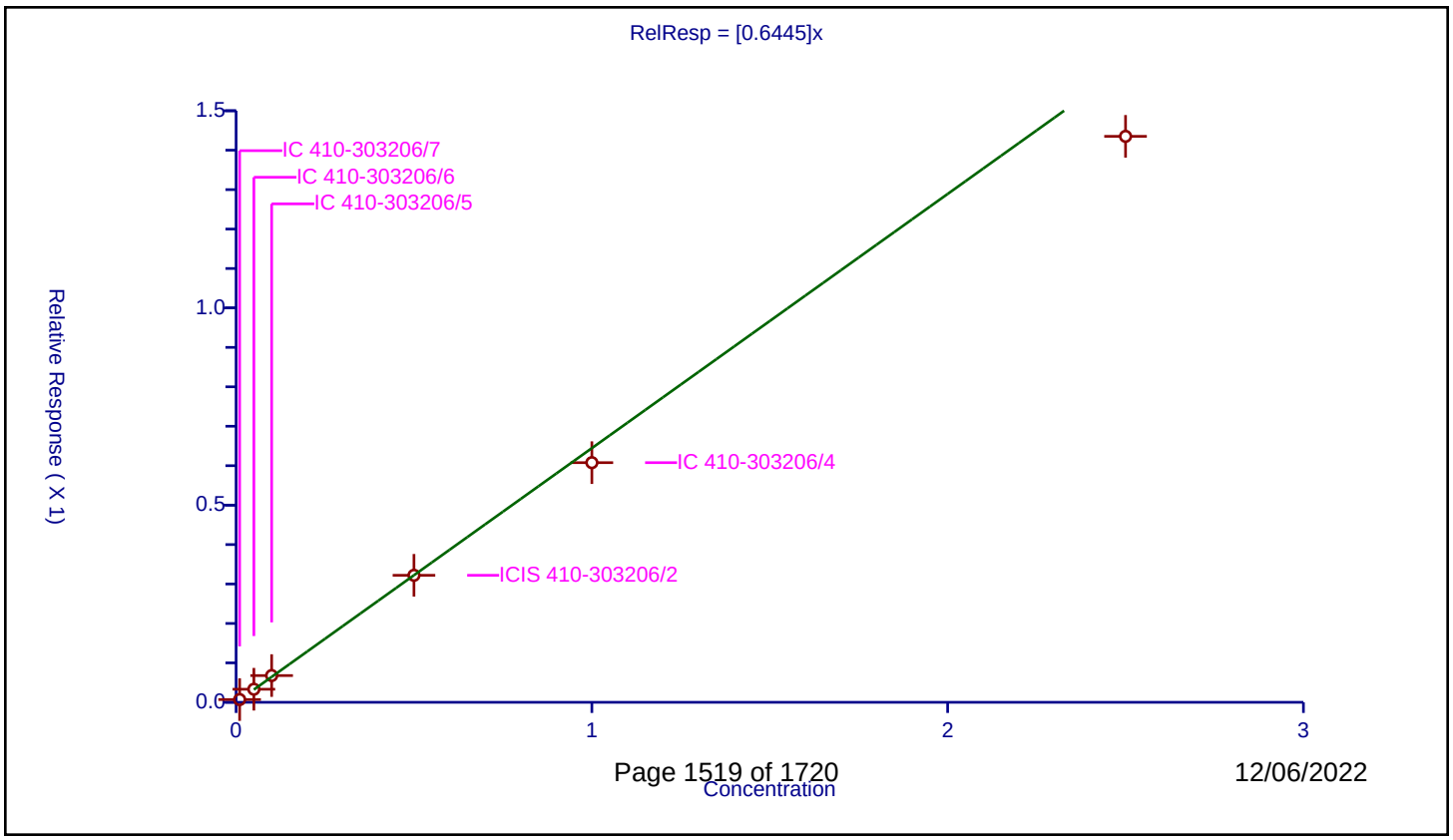
Curve Coefficients

Intercept:	0
Slope:	0.6445

Error Coefficients

Standard Error:	334000
Relative Standard Error:	7.2
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-303206/7	0.01	0.006999	0.25	118089.0	0.699896	Y
2	IC 410-303206/6	0.05	0.03317	0.25	121595.0	0.663391	Y
3	IC 410-303206/5	0.1	0.067799	0.25	128509.0	0.677988	Y
4	ICIS 410-303206/2	0.5	0.322038	0.25	132746.0	0.644076	Y
5	IC 410-303206/4	1.0	0.607695	0.25	120604.0	0.607695	Y
6	IC 410-303206/3	2.5	1.435095	0.25	115507.0	0.574038	Y



Calibration / 1-Methylnaphthalene-d10

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

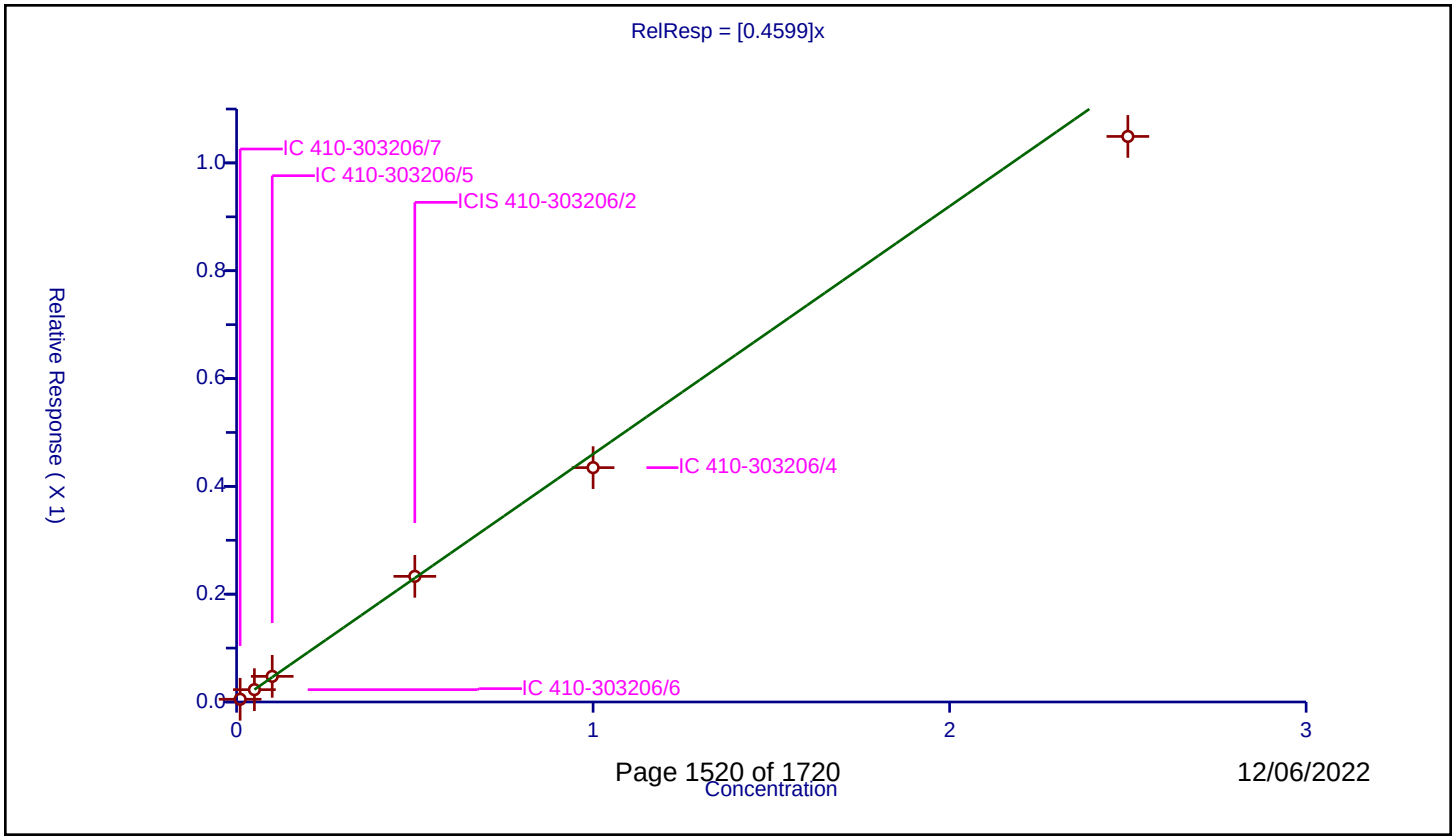
Curve Coefficients

Intercept:	0
Slope:	0.4599

Error Coefficients

Standard Error:	243000
Relative Standard Error:	6.6
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-303206/7	0.01	0.005058	0.25	118089.0	0.505763	Y
2	IC 410-303206/6	0.05	0.022861	0.25	121595.0	0.457215	Y
3	IC 410-303206/5	0.1	0.047555	0.25	128509.0	0.47555	Y
4	ICIS 410-303206/2	0.5	0.233094	0.25	132746.0	0.466187	Y
5	IC 410-303206/4	1.0	0.434758	0.25	120604.0	0.434758	Y
6	IC 410-303206/3	2.5	1.049123	0.25	115507.0	0.419649	Y



Calibration / 1-Methylnaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

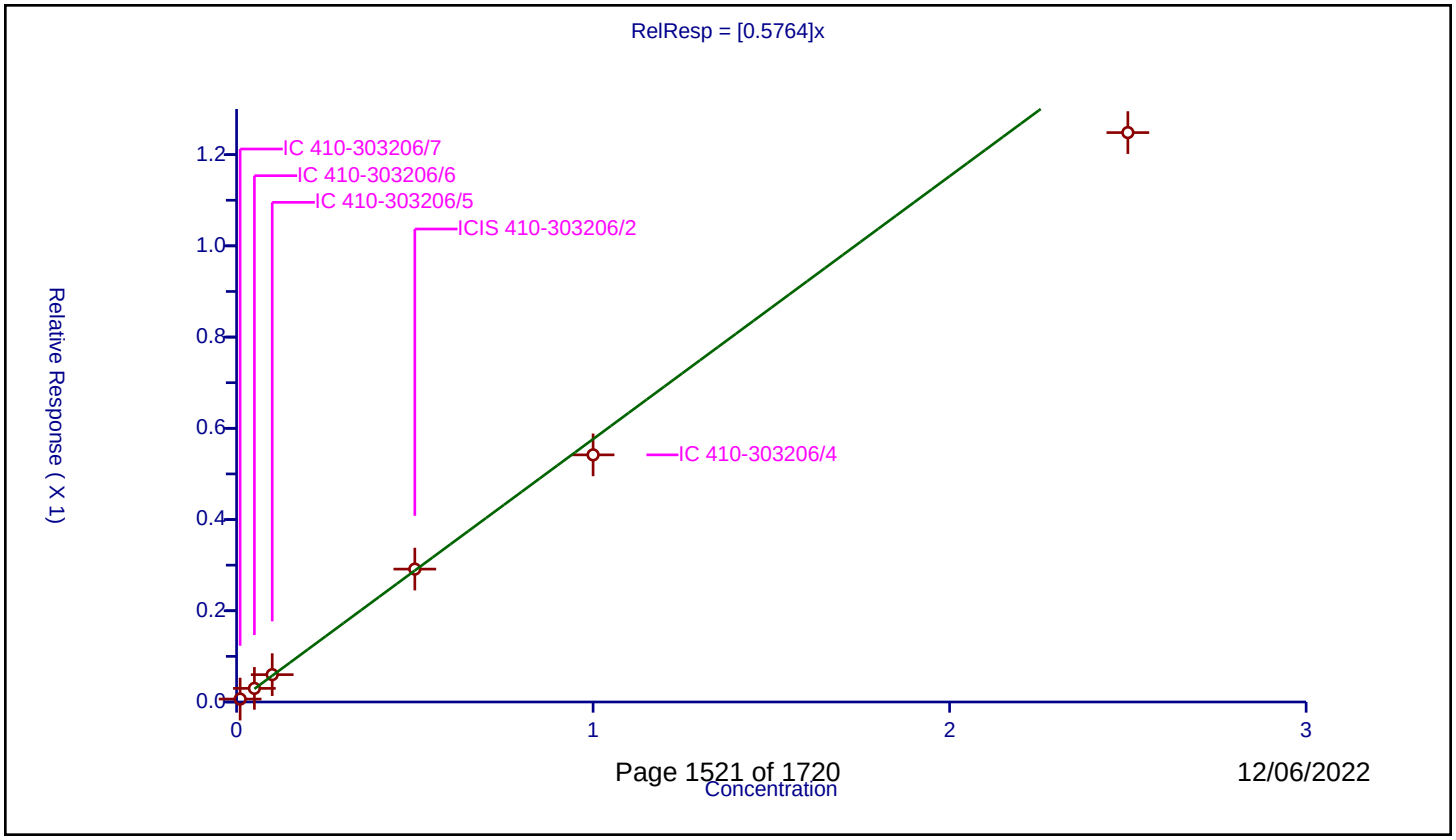
Curve Coefficients

Intercept:	0
Slope:	0.5764

Error Coefficients

Standard Error:	292000
Relative Standard Error:	8.4
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-303206/7	0.01	0.006372	0.25	118089.0	0.637231	Y
2	IC 410-303206/6	0.05	0.029866	0.25	121595.0	0.597311	Y
3	IC 410-303206/5	0.1	0.059974	0.25	128509.0	0.599744	Y
4	ICIS 410-303206/2	0.5	0.29134	0.25	132746.0	0.58268	Y
5	IC 410-303206/4	1.0	0.541806	0.25	120604.0	0.541806	Y
6	IC 410-303206/3	2.5	1.248342	0.25	115507.0	0.499337	Y



Calibration / Dimethyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

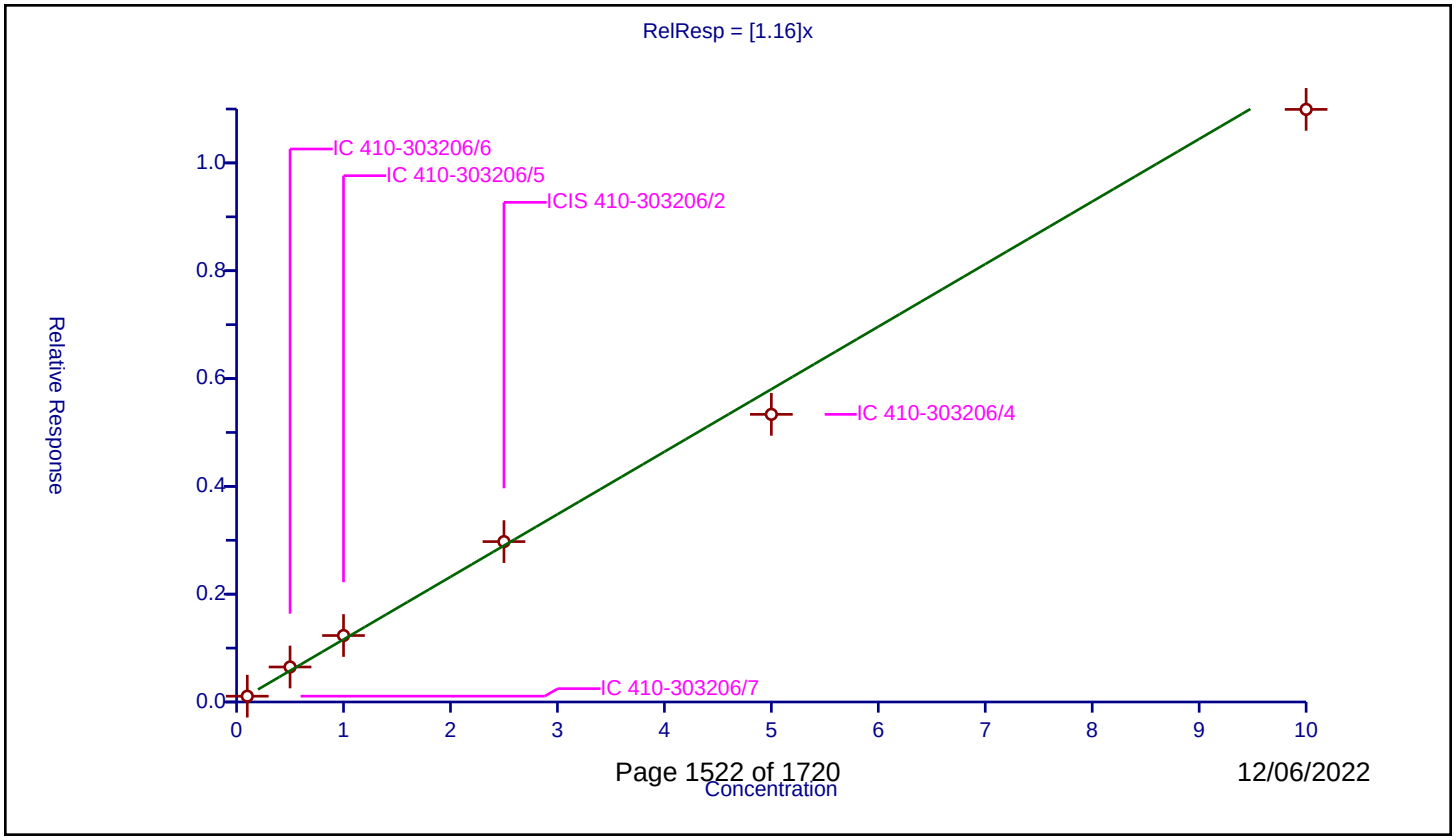
Curve Coefficients

Intercept:	0
Slope:	1.16

Error Coefficients

Standard Error:	1040000
Relative Standard Error:	8.2
Correlation Coefficient:	0.992
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-303206/7	0.1	0.107384	0.25	50650.0	1.07384	Y
2	IC 410-303206/6	0.5	0.649386	0.25	49963.0	1.298771	Y
3	IC 410-303206/5	1.0	1.233216	0.25	55379.0	1.233216	Y
4	ICIS 410-303206/2	2.5	2.975468	0.25	54857.0	1.190187	Y
5	IC 410-303206/4	5.0	5.335885	0.25	50271.0	1.067177	Y
6	IC 410-303206/3	10.0	10.993186	0.25	44030.0	1.099319	Y



Calibration / Acenaphthylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

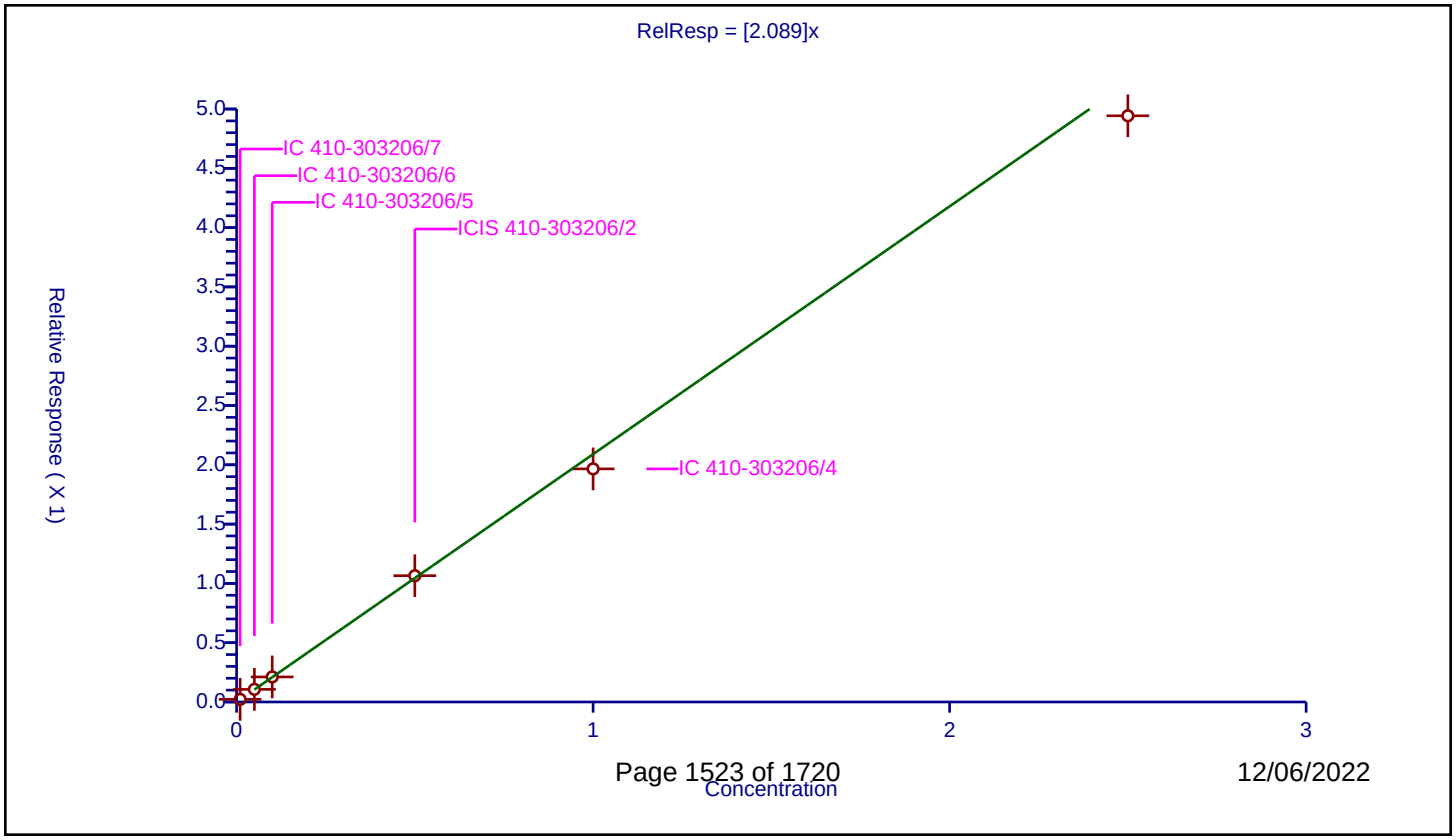
Curve Coefficients

Intercept:	0
Slope:	2.089

Error Coefficients

Standard Error:	441000
Relative Standard Error:	4.8
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-303206/7	0.01	0.022241	0.25	50650.0	2.224087	Y
2	IC 410-303206/6	0.05	0.106369	0.25	49963.0	2.127374	Y
3	IC 410-303206/5	0.1	0.211303	0.25	55379.0	2.11303	Y
4	ICIS 410-303206/2	0.5	1.06486	0.25	54857.0	2.129719	Y
5	IC 410-303206/4	1.0	1.965587	0.25	50271.0	1.965587	Y
6	IC 410-303206/3	2.5	4.942954	0.25	44030.0	1.977181	Y



Calibration / Acenaphthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

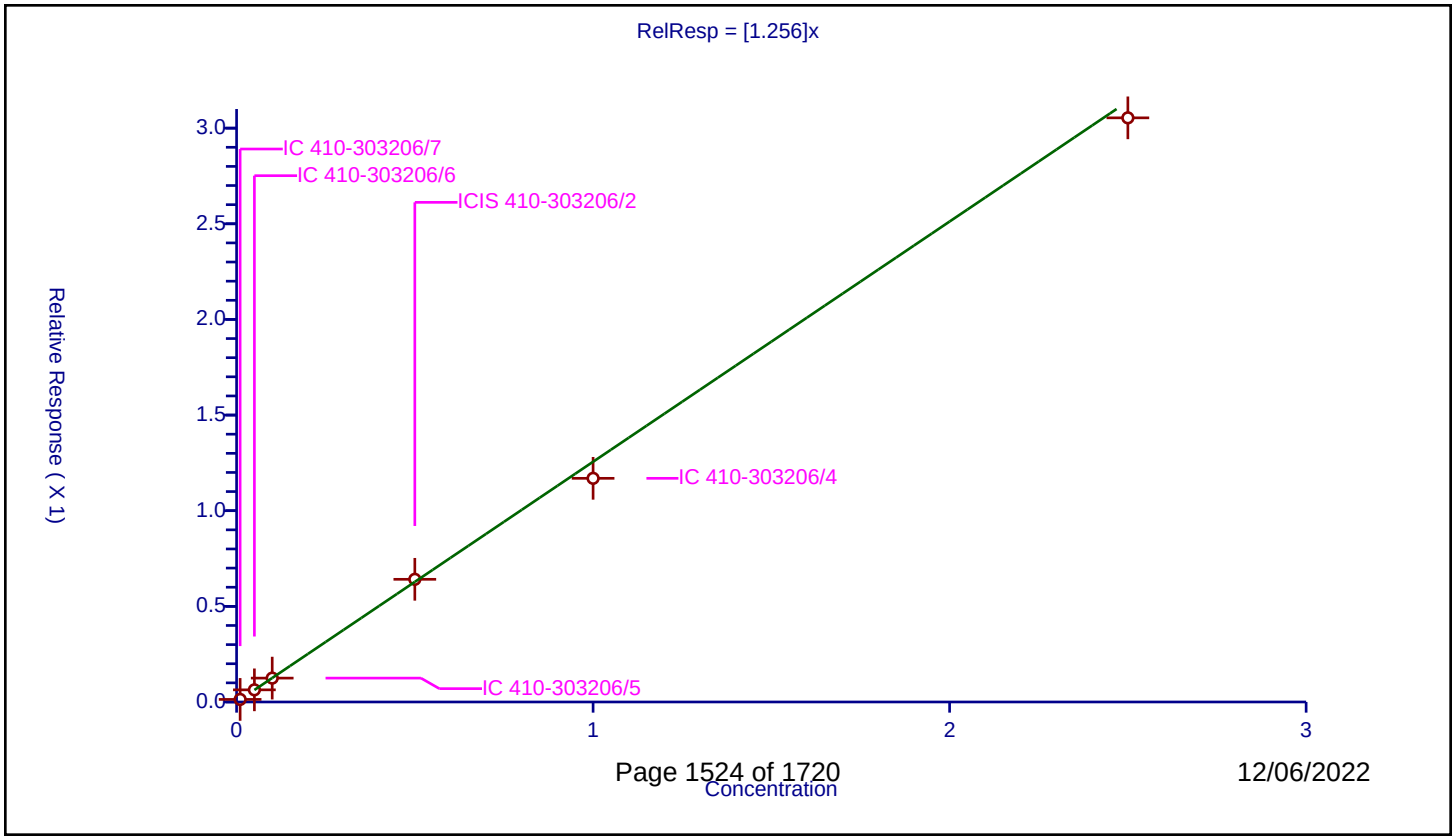
Curve Coefficients

Intercept:	0
Slope:	1.256

Error Coefficients

Standard Error:	270000
Relative Standard Error:	4.7
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-303206/7	0.01	0.01344	0.25	50650.0	1.344028	Y
2	IC 410-303206/6	0.05	0.063462	0.25	49963.0	1.269239	Y
3	IC 410-303206/5	0.1	0.124849	0.25	55379.0	1.248488	Y
4	ICIS 410-303206/2	0.5	0.64139	0.25	54857.0	1.282781	Y
5	IC 410-303206/4	1.0	1.169238	0.25	50271.0	1.169238	Y
6	IC 410-303206/3	2.5	3.053793	0.25	44030.0	1.221517	Y



Calibration / Dibenzofuran

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

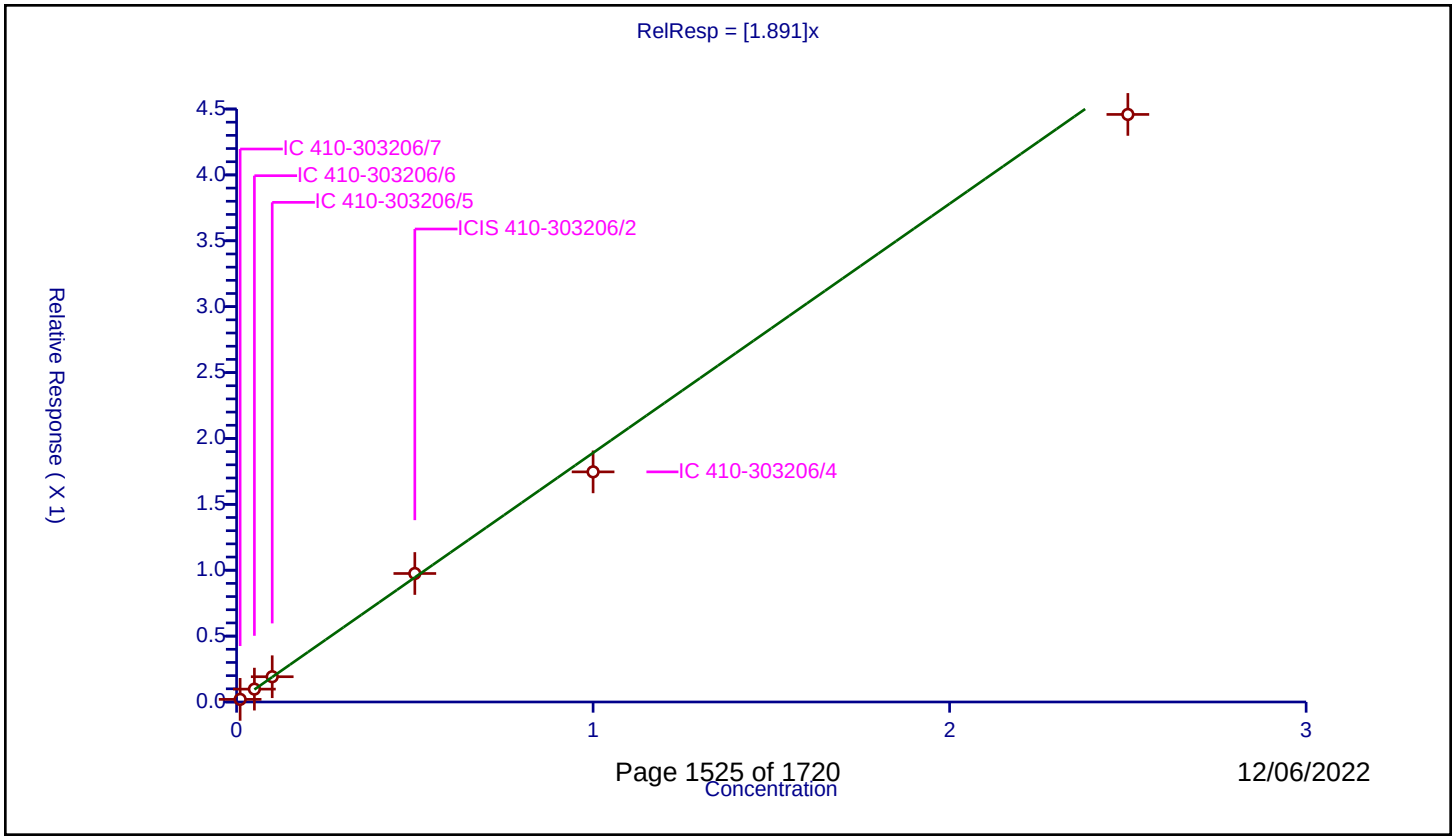
Curve Coefficients

Intercept:	0
Slope:	1.891

Error Coefficients

Standard Error:	397000
Relative Standard Error:	5.3
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-303206/7	0.01	0.019926	0.25	50650.0	1.992596	Y
2	IC 410-303206/6	0.05	0.097627	0.25	49963.0	1.952545	Y
3	IC 410-303206/5	0.1	0.19181	0.25	55379.0	1.918101	Y
4	ICIS 410-303206/2	0.5	0.975113	0.25	54857.0	1.950225	Y
5	IC 410-303206/4	1.0	1.746409	0.25	50271.0	1.746409	Y
6	IC 410-303206/3	2.5	4.458897	0.25	44030.0	1.783559	Y



Calibration / Diethyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

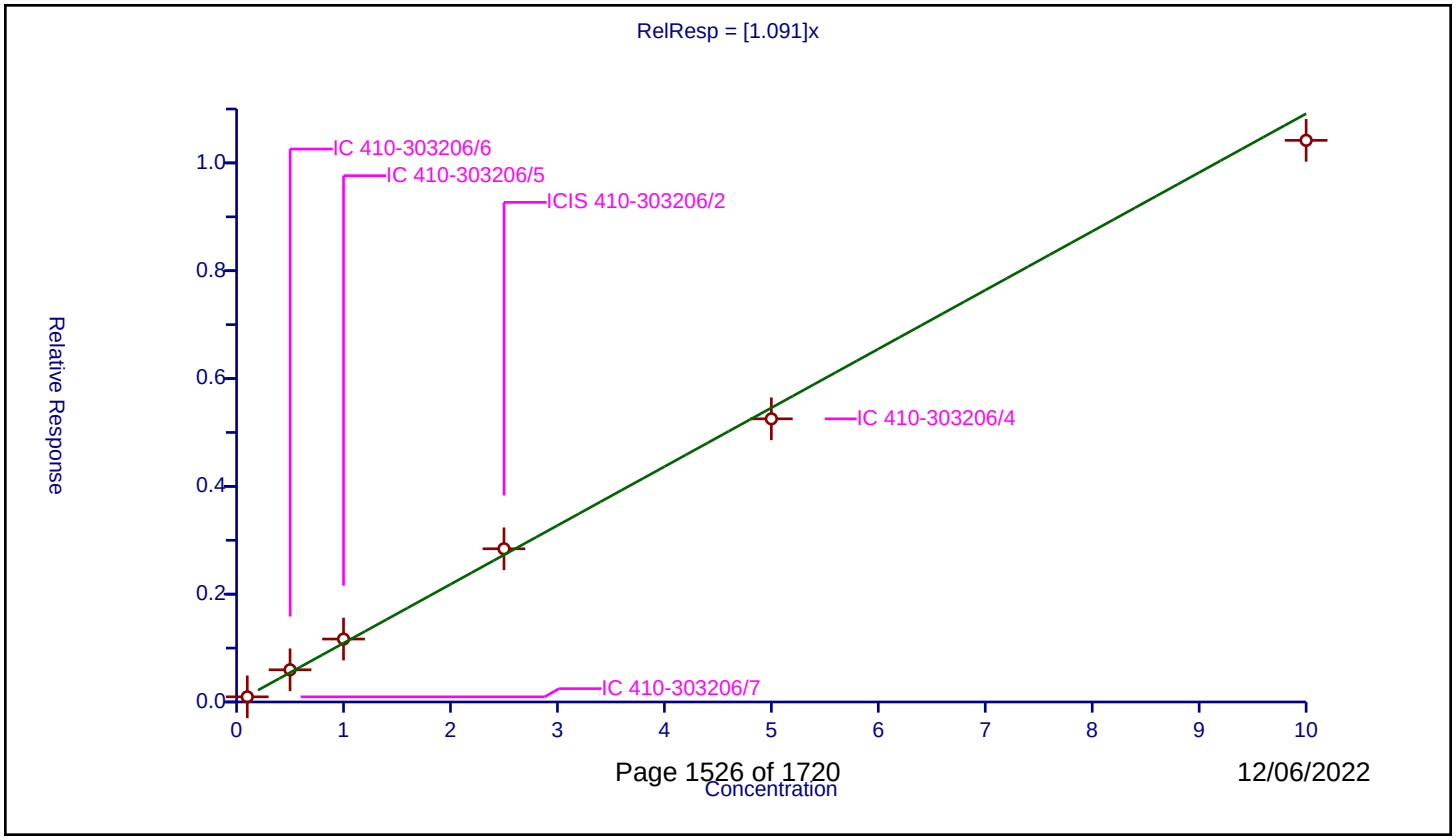
Curve Coefficients

Intercept:	0
Slope:	1.091

Error Coefficients

Standard Error:	995000
Relative Standard Error:	8.3
Correlation Coefficient:	0.990
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-303206/7	0.1	0.095642	0.25	50650.0	0.956417	Y
2	IC 410-303206/6	0.5	0.597387	0.25	49963.0	1.194774	Y
3	IC 410-303206/5	1.0	1.167622	0.25	55379.0	1.167622	Y
4	ICIS 410-303206/2	2.5	2.842349	0.25	54857.0	1.13694	Y
5	IC 410-303206/4	5.0	5.252835	0.25	50271.0	1.050567	Y
6	IC 410-303206/3	10.0	10.41876	0.25	44030.0	1.041876	Y



Calibration / Fluorene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

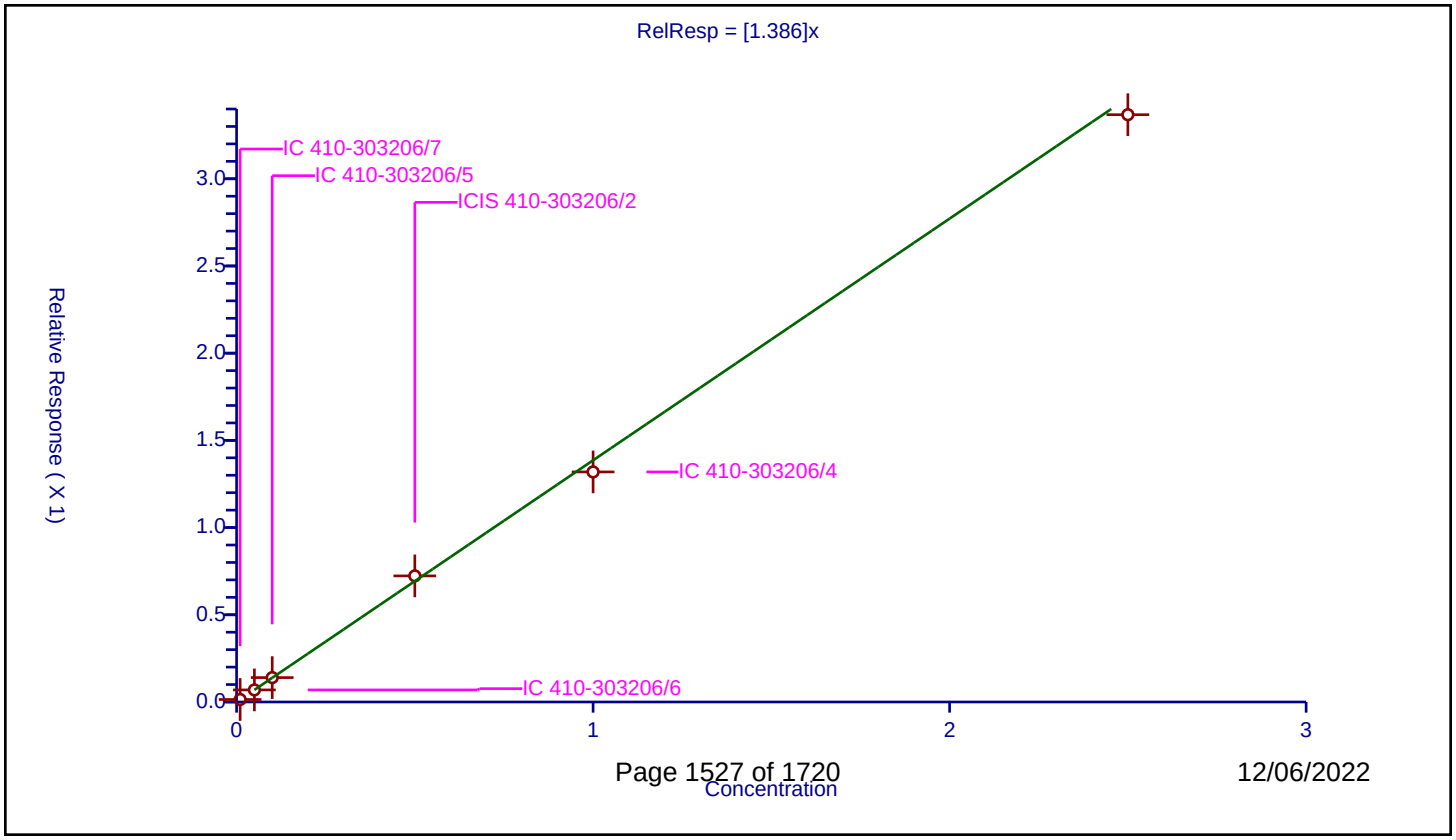
Curve Coefficients

Intercept:	0
Slope:	1.386

Error Coefficients

Standard Error:	299000
Relative Standard Error:	3.4
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-303206/7	0.01	0.014225	0.25	50650.0	1.422507	Y
2	IC 410-303206/6	0.05	0.069121	0.25	49963.0	1.382423	Y
3	IC 410-303206/5	0.1	0.139755	0.25	55379.0	1.397551	Y
4	ICIS 410-303206/2	0.5	0.72293	0.25	54857.0	1.445859	Y
5	IC 410-303206/4	1.0	1.31919	0.25	50271.0	1.31919	Y
6	IC 410-303206/3	2.5	3.367494	0.25	44030.0	1.346998	Y



Calibration / N-Nitrosodiphenylamine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

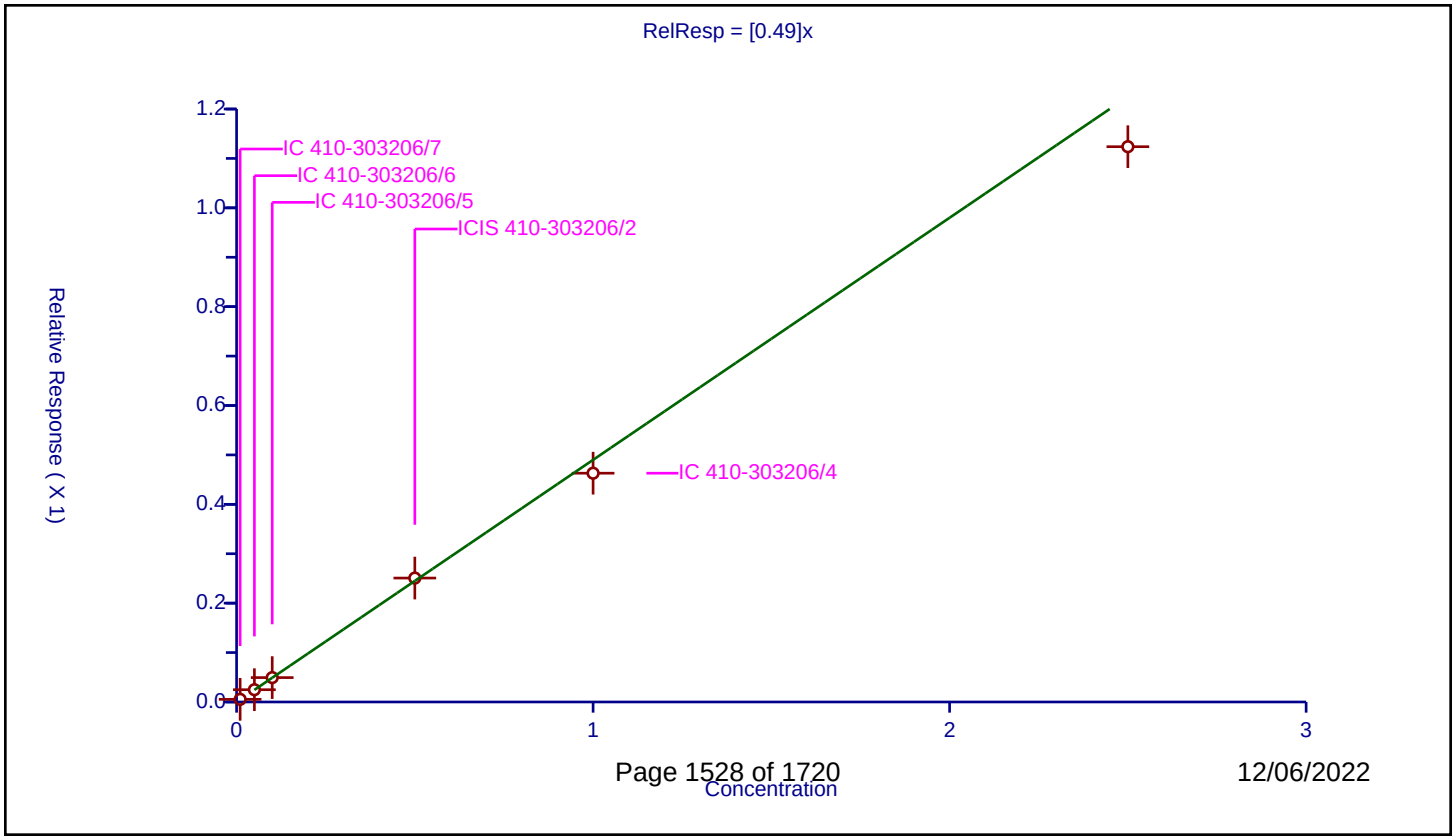
Curve Coefficients

Intercept:	0
Slope:	0.49

Error Coefficients

Standard Error:	162000
Relative Standard Error:	6.2
Correlation Coefficient:	0.991
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-303206/7	0.01	0.005354	0.25	78207.0	0.535438	Y
2	IC 410-303206/6	0.05	0.024833	0.25	79622.0	0.496659	Y
3	IC 410-303206/5	0.1	0.049366	0.25	88938.0	0.493659	Y
4	ICIS 410-303206/2	0.5	0.250796	0.25	89839.0	0.501592	Y
5	IC 410-303206/4	1.0	0.463014	0.25	79726.0	0.463014	Y
6	IC 410-303206/3	2.5	1.12376	0.25	70948.0	0.449504	Y



Calibration / Hexachlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

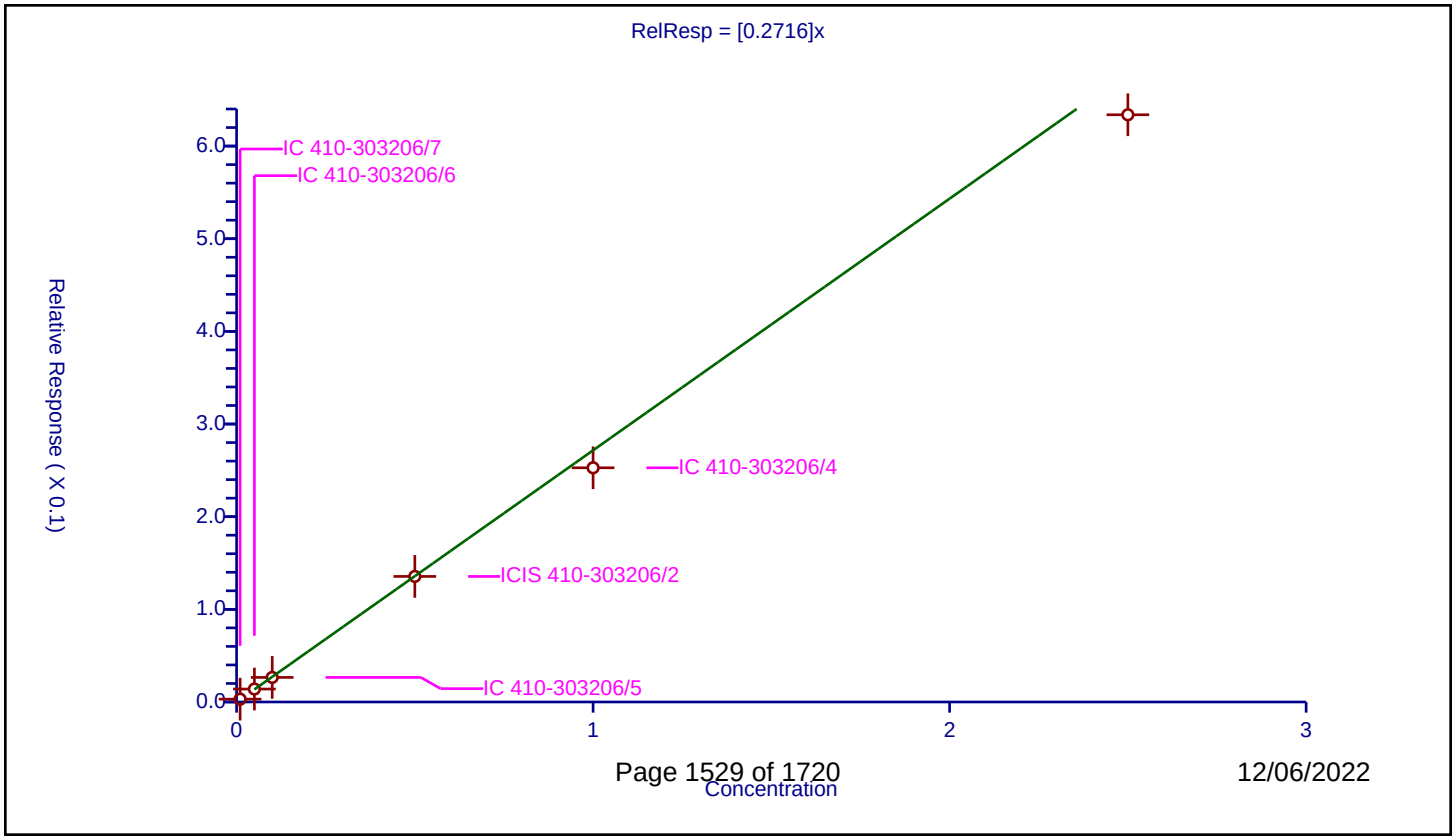
Curve Coefficients

Intercept:	0
Slope:	0.2716

Error Coefficients

Standard Error:	90900
Relative Standard Error:	7.5
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-303206/7	0.01	0.003075	0.25	78207.0	0.307517	Y
2	IC 410-303206/6	0.05	0.013979	0.25	79622.0	0.279571	Y
3	IC 410-303206/5	0.1	0.02653	0.25	88938.0	0.265297	Y
4	ICIS 410-303206/2	0.5	0.135526	0.25	89839.0	0.271052	Y
5	IC 410-303206/4	1.0	0.252766	0.25	79726.0	0.252766	Y
6	IC 410-303206/3	2.5	0.633788	0.25	70948.0	0.253515	Y



Calibration / Phenanthrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

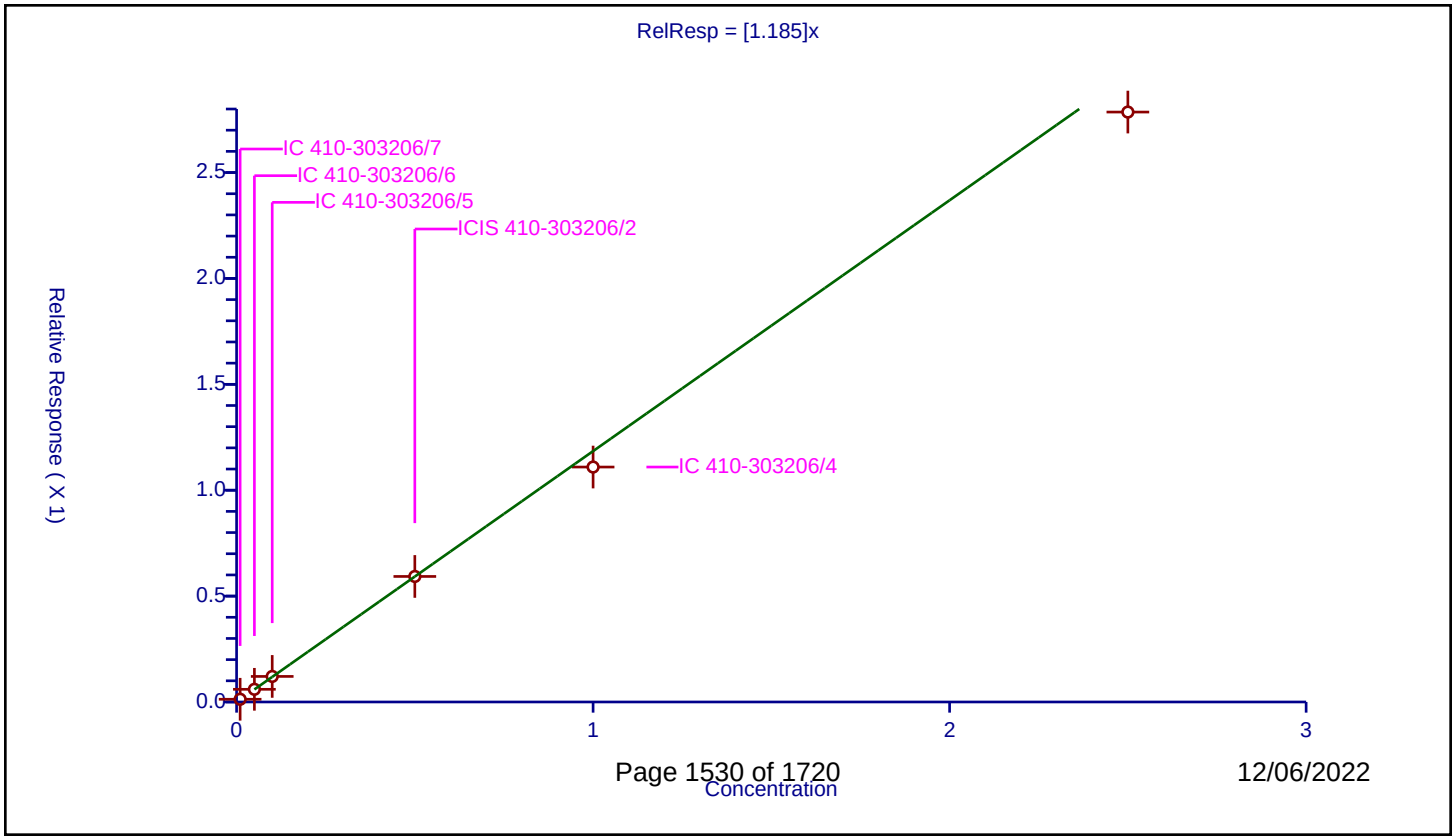
Curve Coefficients

Intercept:	0
Slope:	1.185

Error Coefficients

Standard Error:	399000
Relative Standard Error:	5.8
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-303206/7	0.01	0.012946	0.25	78207.0	1.294641	Y
2	IC 410-303206/6	0.05	0.059817	0.25	79622.0	1.19634	Y
3	IC 410-303206/5	0.1	0.120739	0.25	88938.0	1.207386	Y
4	ICIS 410-303206/2	0.5	0.592724	0.25	89839.0	1.185448	Y
5	IC 410-303206/4	1.0	1.109375	0.25	79726.0	1.109375	Y
6	IC 410-303206/3	2.5	2.785635	0.25	70948.0	1.114254	Y



Calibration / Anthracene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

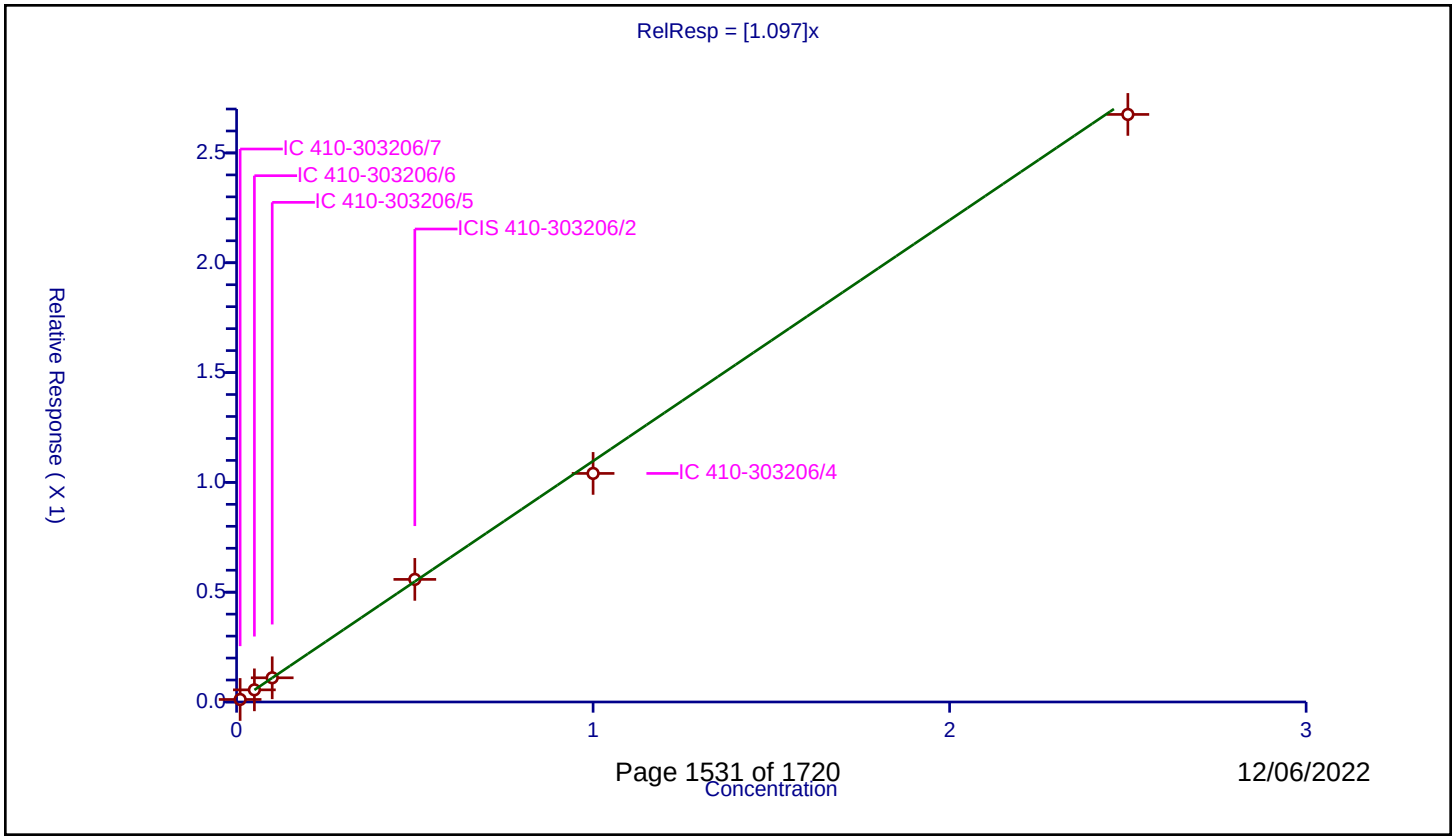
Curve Coefficients

Intercept:	0
Slope:	1.097

Error Coefficients

Standard Error:	382000
Relative Standard Error:	3.4
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-303206/7	0.01	0.01147	0.25	78207.0	1.146956	Y
2	IC 410-303206/6	0.05	0.055318	0.25	79622.0	1.106353	Y
3	IC 410-303206/5	0.1	0.110226	0.25	88938.0	1.102257	Y
4	ICIS 410-303206/2	0.5	0.558271	0.25	89839.0	1.116542	Y
5	IC 410-303206/4	1.0	1.040724	0.25	79726.0	1.040724	Y
6	IC 410-303206/3	2.5	2.675315	0.25	70948.0	1.070126	Y



Calibration / Di-n-butyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

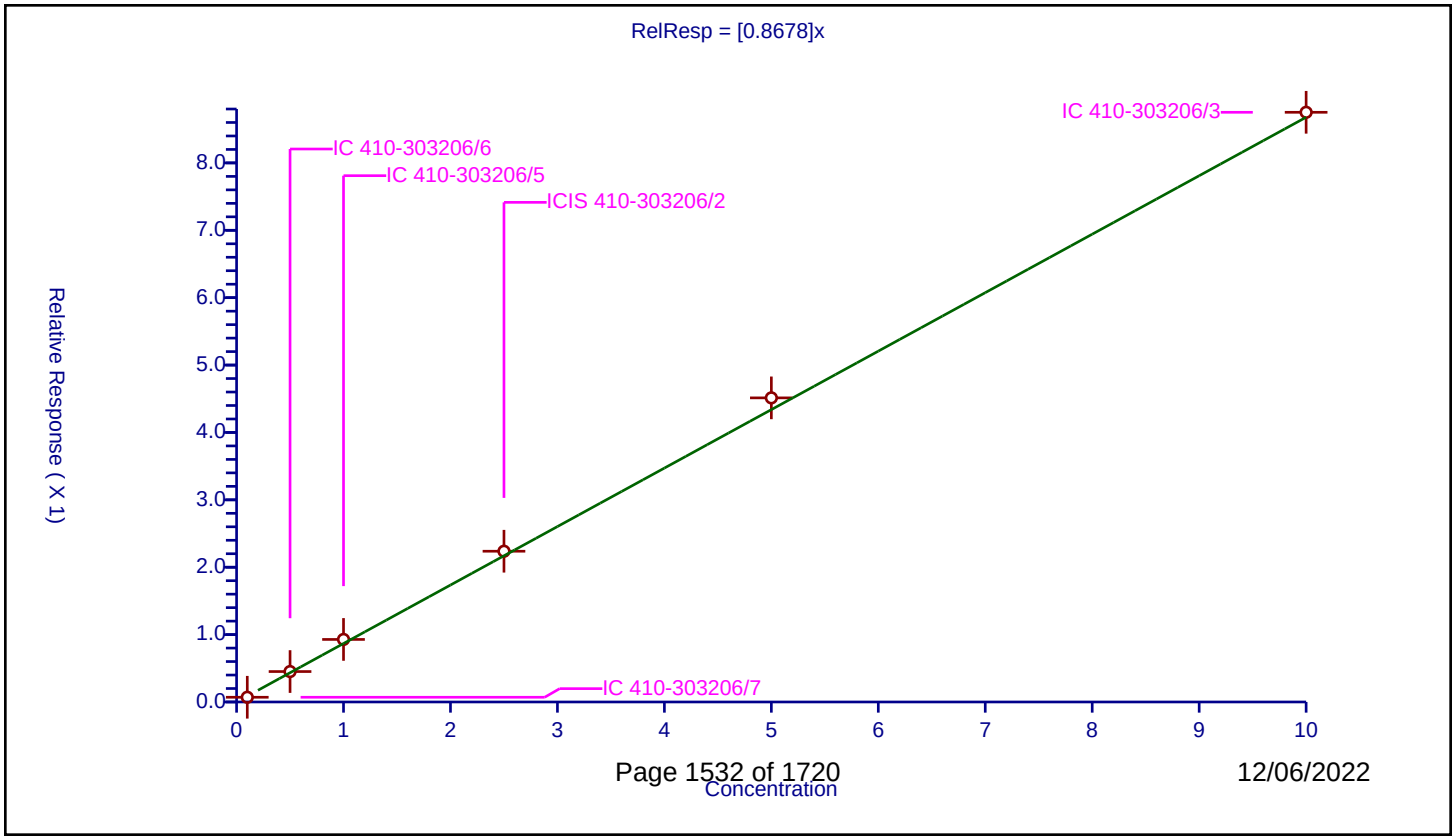
Curve Coefficients

Intercept:	0
Slope:	0.8678

Error Coefficients

Standard Error:	1340000
Relative Standard Error:	9.6
Correlation Coefficient:	0.991
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-303206/7	0.1	0.070214	0.25	78207.0	0.702143	Y
2	IC 410-303206/6	0.5	0.451763	0.25	79622.0	0.903525	Y
3	IC 410-303206/5	1.0	0.928287	0.25	88938.0	0.928287	Y
4	ICIS 410-303206/2	2.5	2.237235	0.25	89839.0	0.894894	Y
5	IC 410-303206/4	5.0	4.513289	0.25	79726.0	0.902658	Y
6	IC 410-303206/3	10.0	8.751279	0.25	70948.0	0.875128	Y



Calibration / Fluoranthene-d10 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

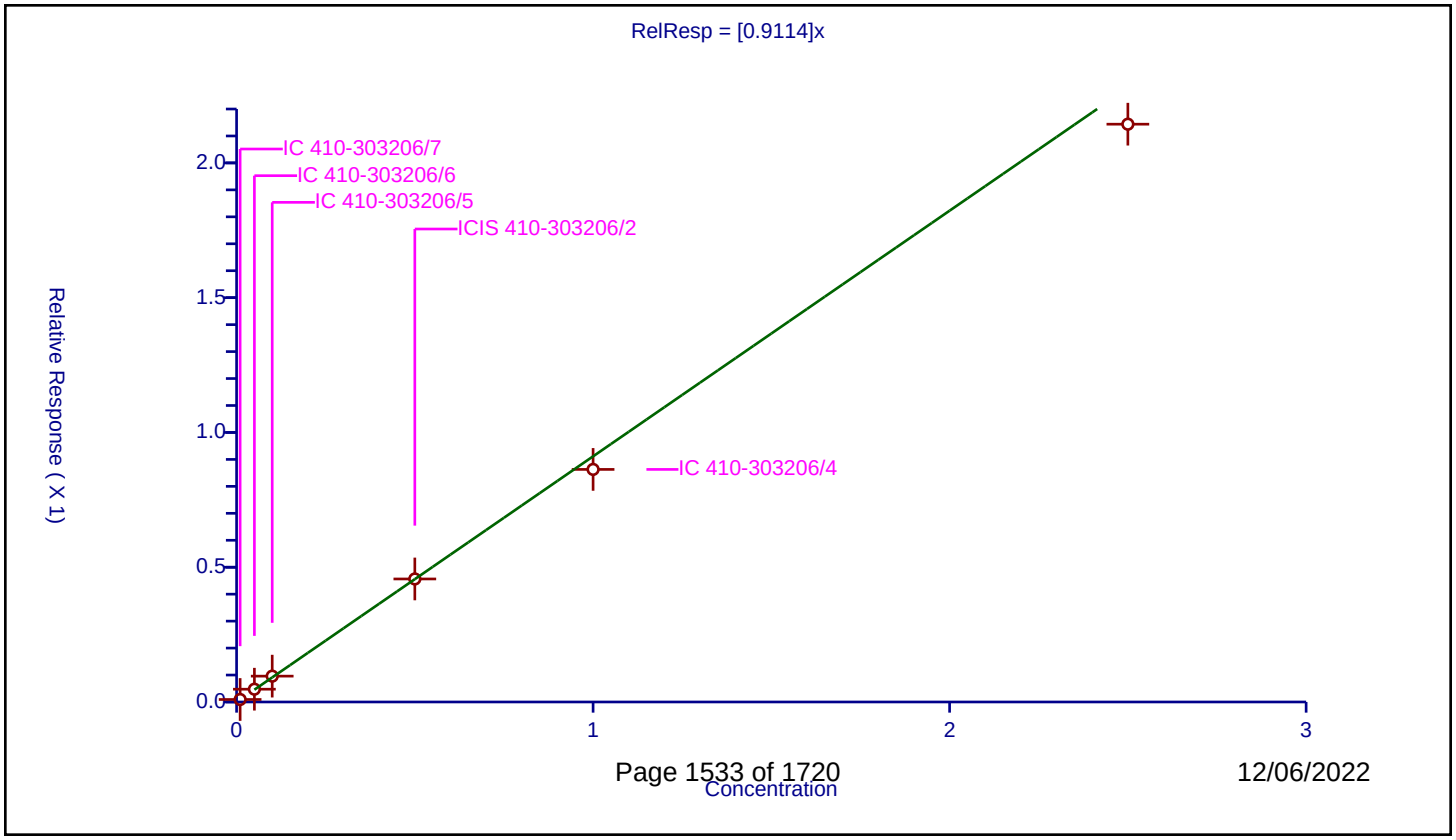
Curve Coefficients

Intercept:	0
Slope:	0.9114

Error Coefficients

Standard Error:	308000
Relative Standard Error:	4.7
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-303206/7	0.01	0.00927	0.25	78207.0	0.927027	Y
2	IC 410-303206/6	0.05	0.047437	0.25	79622.0	0.948733	Y
3	IC 410-303206/5	0.1	0.095912	0.25	88938.0	0.959123	Y
4	ICIS 410-303206/2	0.5	0.456478	0.25	89839.0	0.912955	Y
5	IC 410-303206/4	1.0	0.862909	0.25	79726.0	0.862909	Y
6	IC 410-303206/3	2.5	2.14375	0.25	70948.0	0.8575	Y



Calibration / Fluoranthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

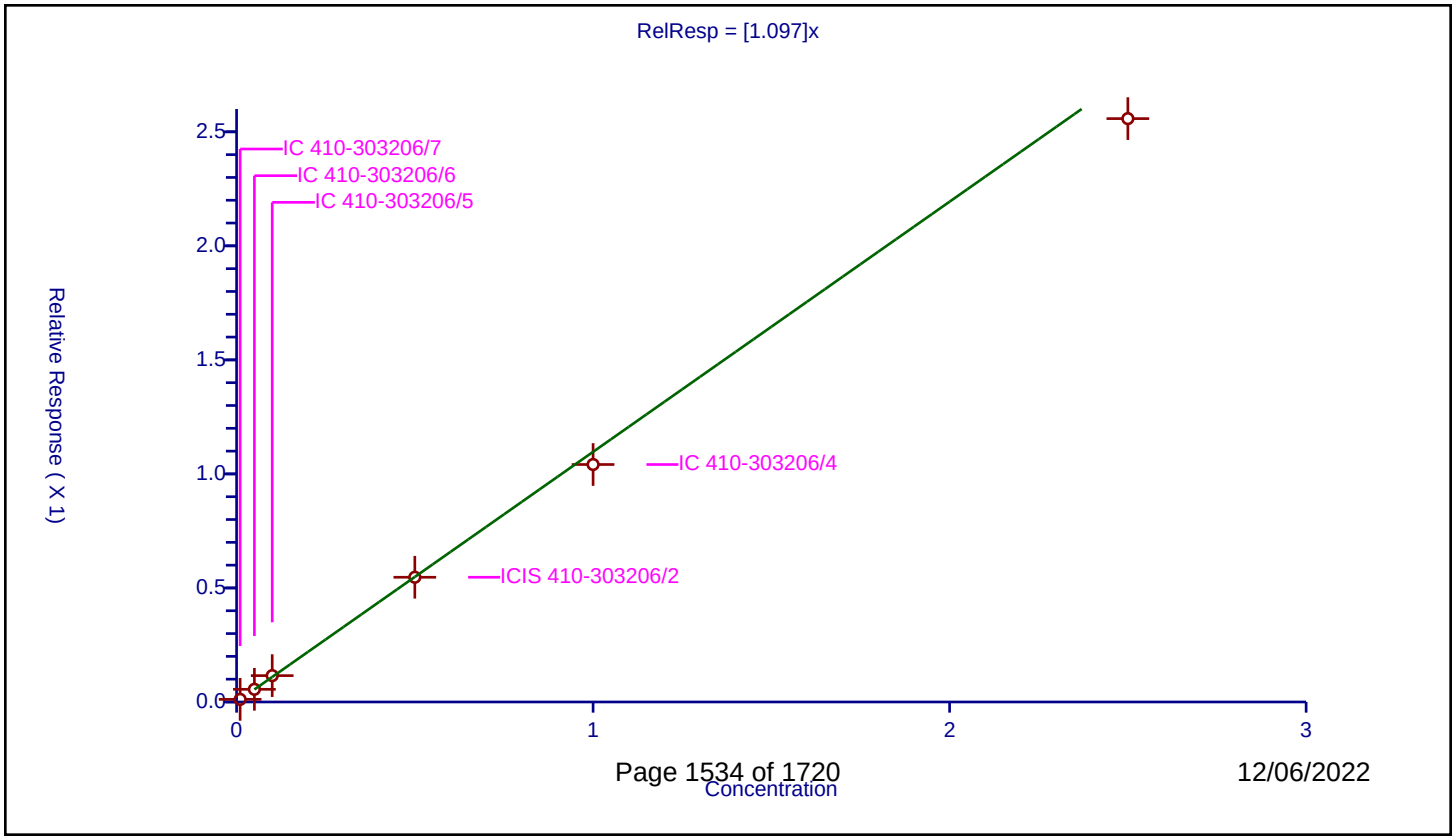
Curve Coefficients

Intercept:	0
Slope:	1.097

Error Coefficients

Standard Error:	368000
Relative Standard Error:	5.1
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-303206/7	0.01	0.011543	0.25	78207.0	1.154308	Y
2	IC 410-303206/6	0.05	0.055606	0.25	79622.0	1.11213	Y
3	IC 410-303206/5	0.1	0.115623	0.25	88938.0	1.156227	Y
4	ICIS 410-303206/2	0.5	0.546909	0.25	89839.0	1.093818	Y
5	IC 410-303206/4	1.0	1.041329	0.25	79726.0	1.041329	Y
6	IC 410-303206/3	2.5	2.557852	0.25	70948.0	1.023141	Y



Calibration / Pyrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

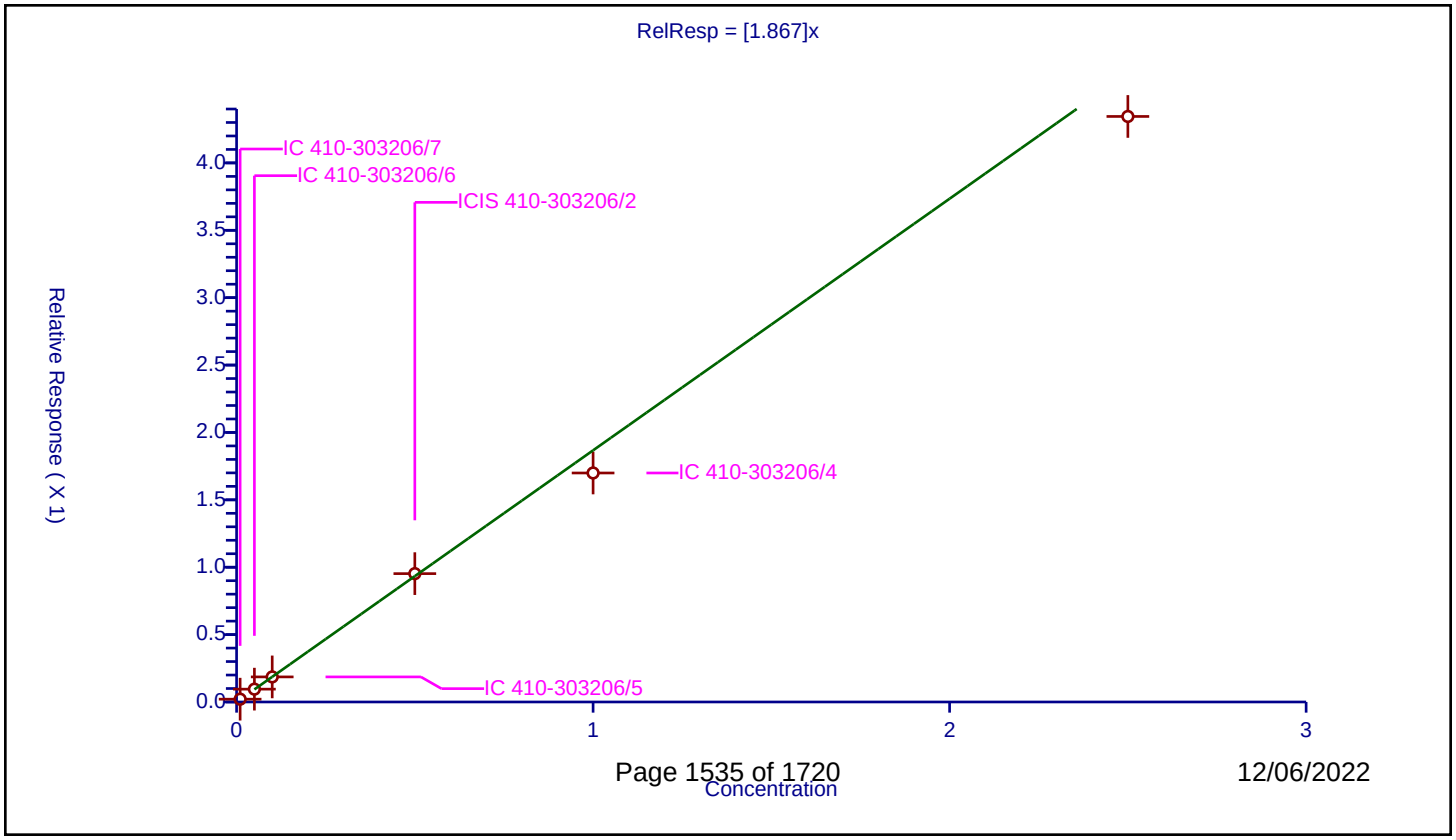
Curve Coefficients

Intercept:	0
Slope:	1.867

Error Coefficients

Standard Error:	392000
Relative Standard Error:	7.6
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-303206/7	0.01	0.020951	0.25	42873.0	2.095141	Y
2	IC 410-303206/6	0.05	0.095202	0.25	47483.0	1.90405	Y
3	IC 410-303206/5	0.1	0.186176	0.25	55755.0	1.861761	Y
4	ICIS 410-303206/2	0.5	0.952487	0.25	53880.0	1.904974	Y
5	IC 410-303206/4	1.0	1.699217	0.25	51154.0	1.699217	Y
6	IC 410-303206/3	2.5	4.344719	0.25	44685.0	1.737887	Y



Calibration / Butyl benzyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

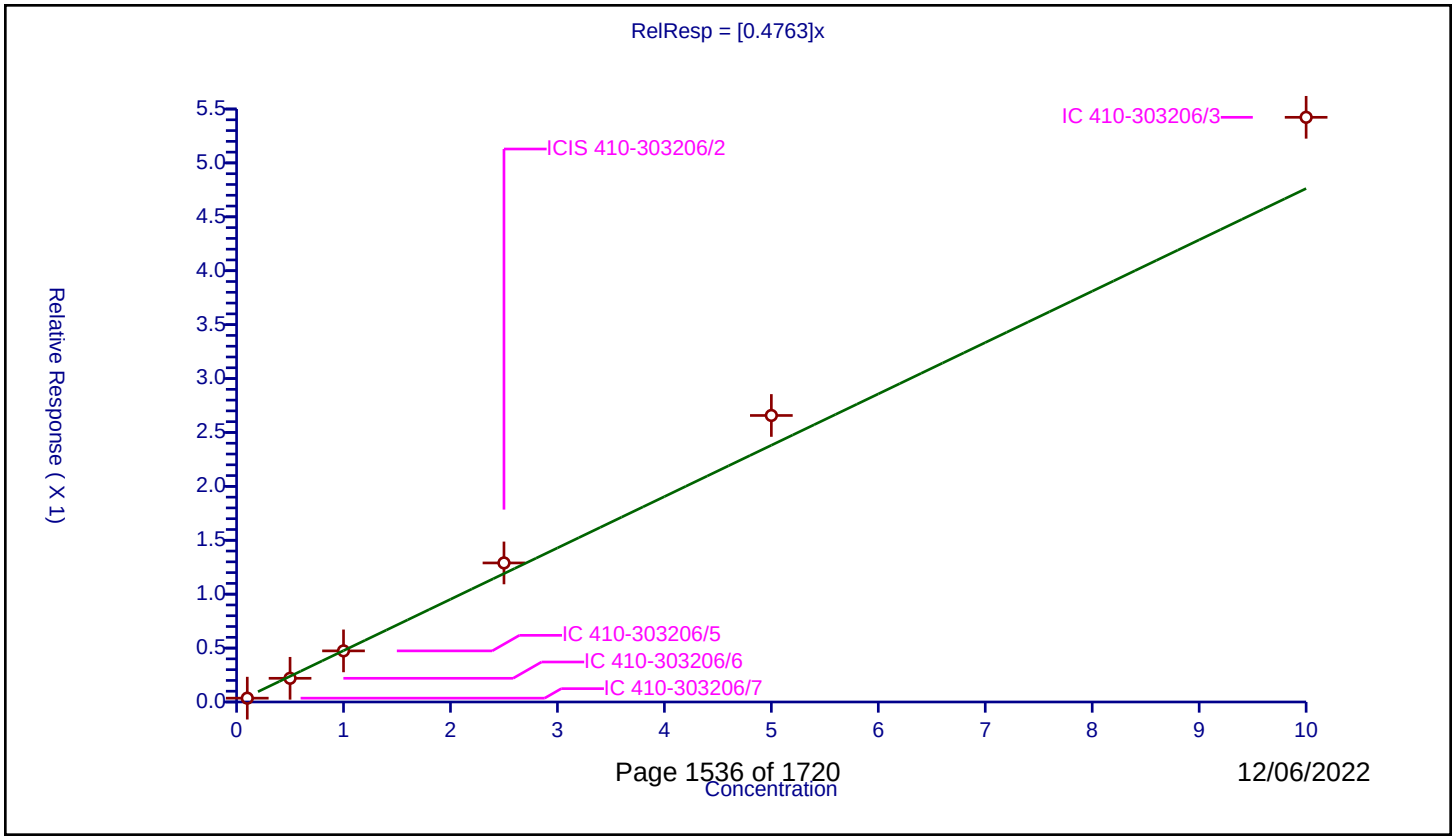
Curve Coefficients

Intercept:	0
Slope:	0.4763

Error Coefficients

Standard Error:	515000
Relative Standard Error:	14.9
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-303206/7	0.1	0.035407	0.25	42873.0	0.354069	Y
2	IC 410-303206/6	0.5	0.219821	0.25	47483.0	0.439642	Y
3	IC 410-303206/5	1.0	0.474083	0.25	55755.0	0.474083	Y
4	ICIS 410-303206/2	2.5	1.289723	0.25	53880.0	0.515889	Y
5	IC 410-303206/4	5.0	2.65751	0.25	51154.0	0.531502	Y
6	IC 410-303206/3	10.0	5.423185	0.25	44685.0	0.542318	Y



Calibration / Benzo[a]anthracene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

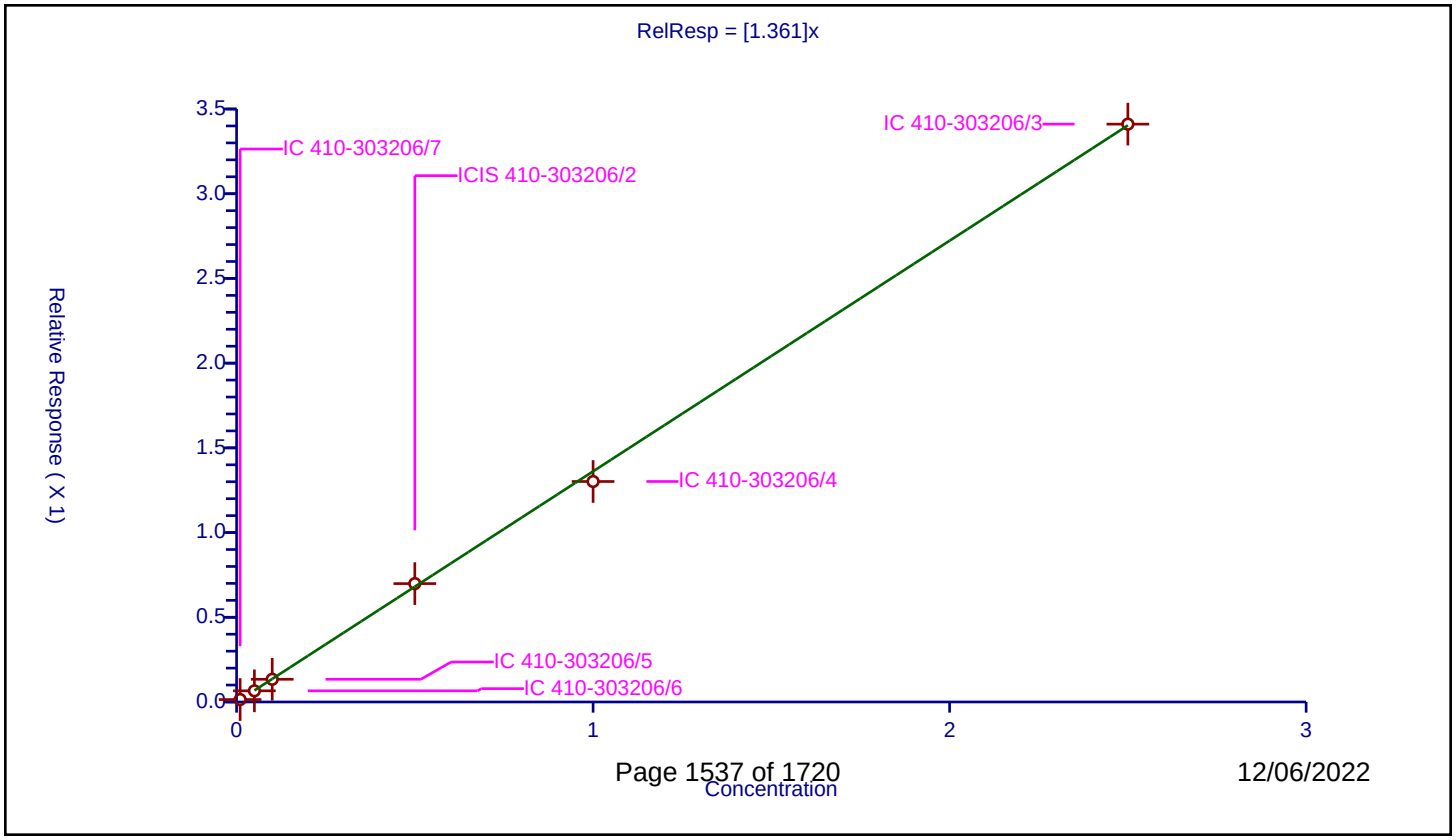
Curve Coefficients

Intercept:	0
Slope:	1.361

Error Coefficients

Standard Error:	305000
Relative Standard Error:	4.0
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-303206/7	0.01	0.014467	0.25	42873.0	1.446715	Y
2	IC 410-303206/6	0.05	0.065903	0.25	47483.0	1.318051	Y
3	IC 410-303206/5	0.1	0.133975	0.25	55755.0	1.339745	Y
4	ICIS 410-303206/2	0.5	0.698831	0.25	53880.0	1.397661	Y
5	IC 410-303206/4	1.0	1.301433	0.25	51154.0	1.301433	Y
6	IC 410-303206/3	2.5	3.410792	0.25	44685.0	1.364317	Y



Calibration / Chrysene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

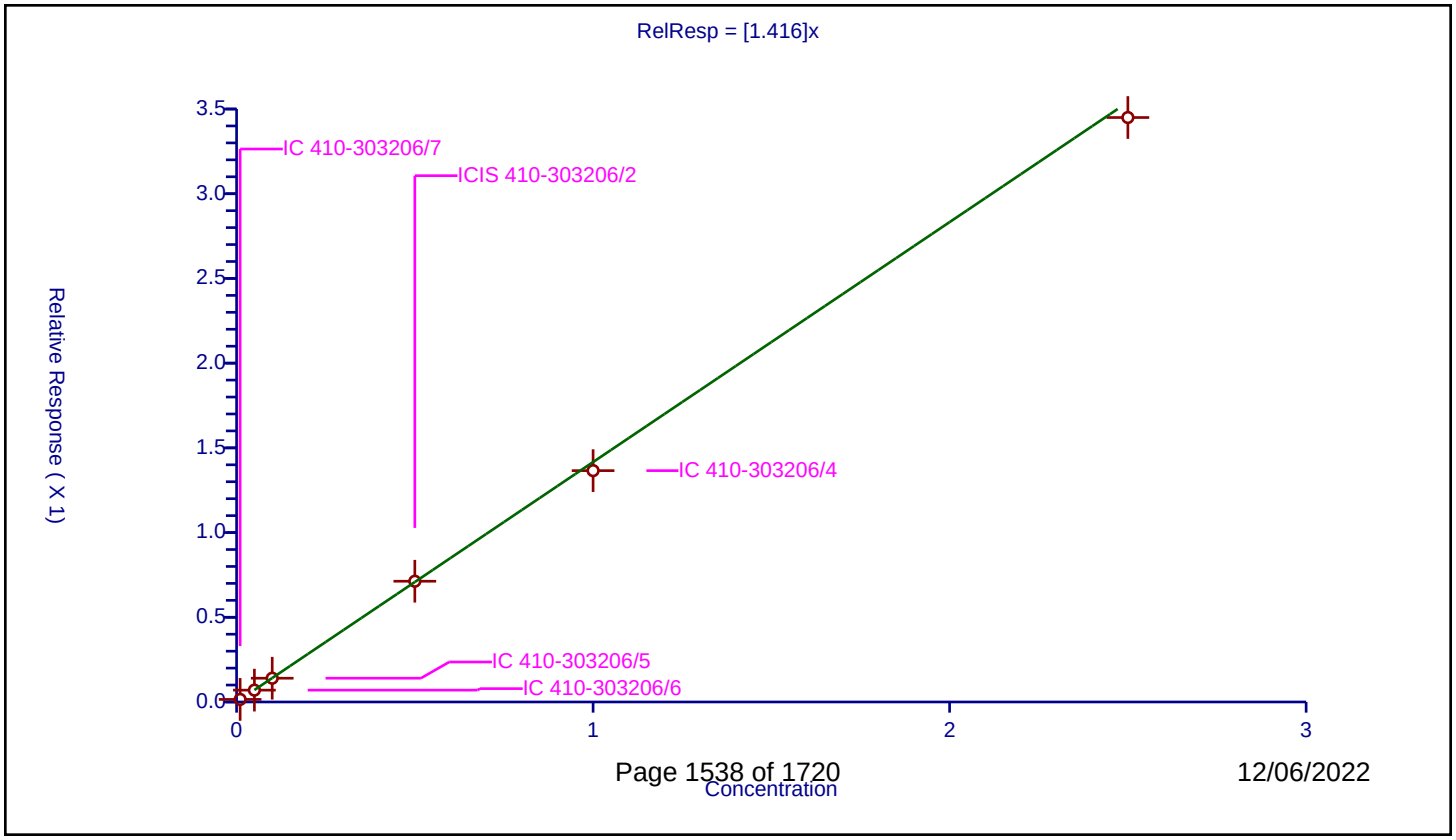
Curve Coefficients

Intercept:	0
Slope:	1.416

Error Coefficients

Standard Error:	311000
Relative Standard Error:	4.0
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-303206/7	0.01	0.015237	0.25	42873.0	1.523686	Y
2	IC 410-303206/6	0.05	0.069962	0.25	47483.0	1.399238	Y
3	IC 410-303206/5	0.1	0.140333	0.25	55755.0	1.403327	Y
4	ICIS 410-303206/2	0.5	0.712778	0.25	53880.0	1.425557	Y
5	IC 410-303206/4	1.0	1.365524	0.25	51154.0	1.365524	Y
6	IC 410-303206/3	2.5	3.449849	0.25	44685.0	1.37994	Y



Calibration / Bis(2-ethylhexyl) phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

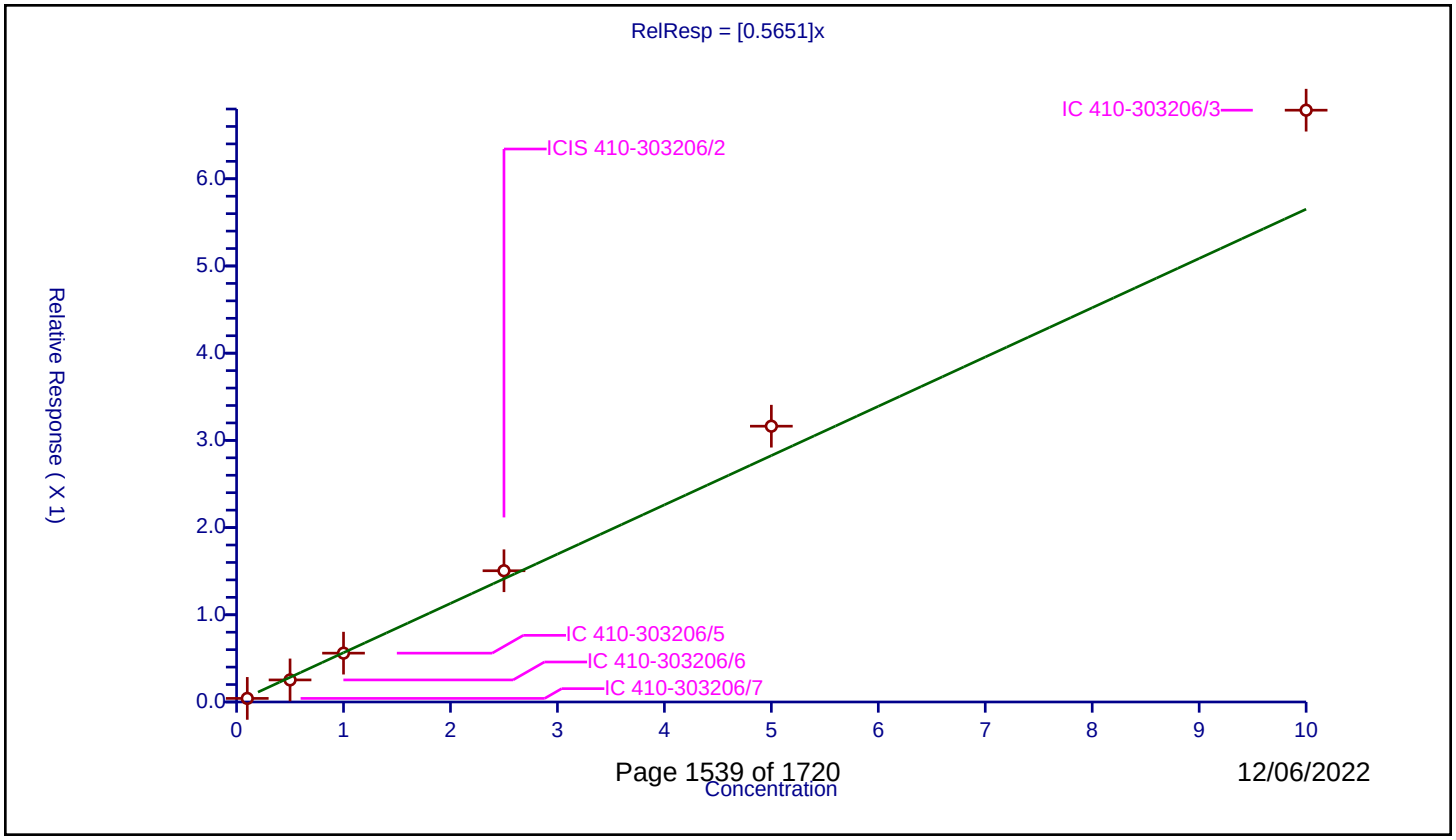
Curve Coefficients

Intercept:	0
Slope:	0.5651

Error Coefficients

Standard Error:	635000
Relative Standard Error:	17.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.971

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-303206/7	0.1	0.041162	0.25	42873.0	0.411623	Y
2	IC 410-303206/6	0.5	0.252912	0.25	47483.0	0.505823	Y
3	IC 410-303206/5	1.0	0.560093	0.25	55755.0	0.560093	Y
4	ICIS 410-303206/2	2.5	1.504993	0.25	53880.0	0.601997	Y
5	IC 410-303206/4	5.0	3.162866	0.25	51154.0	0.632573	Y
6	IC 410-303206/3	10.0	6.786528	0.25	44685.0	0.678653	Y



Calibration / Di-n-octyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

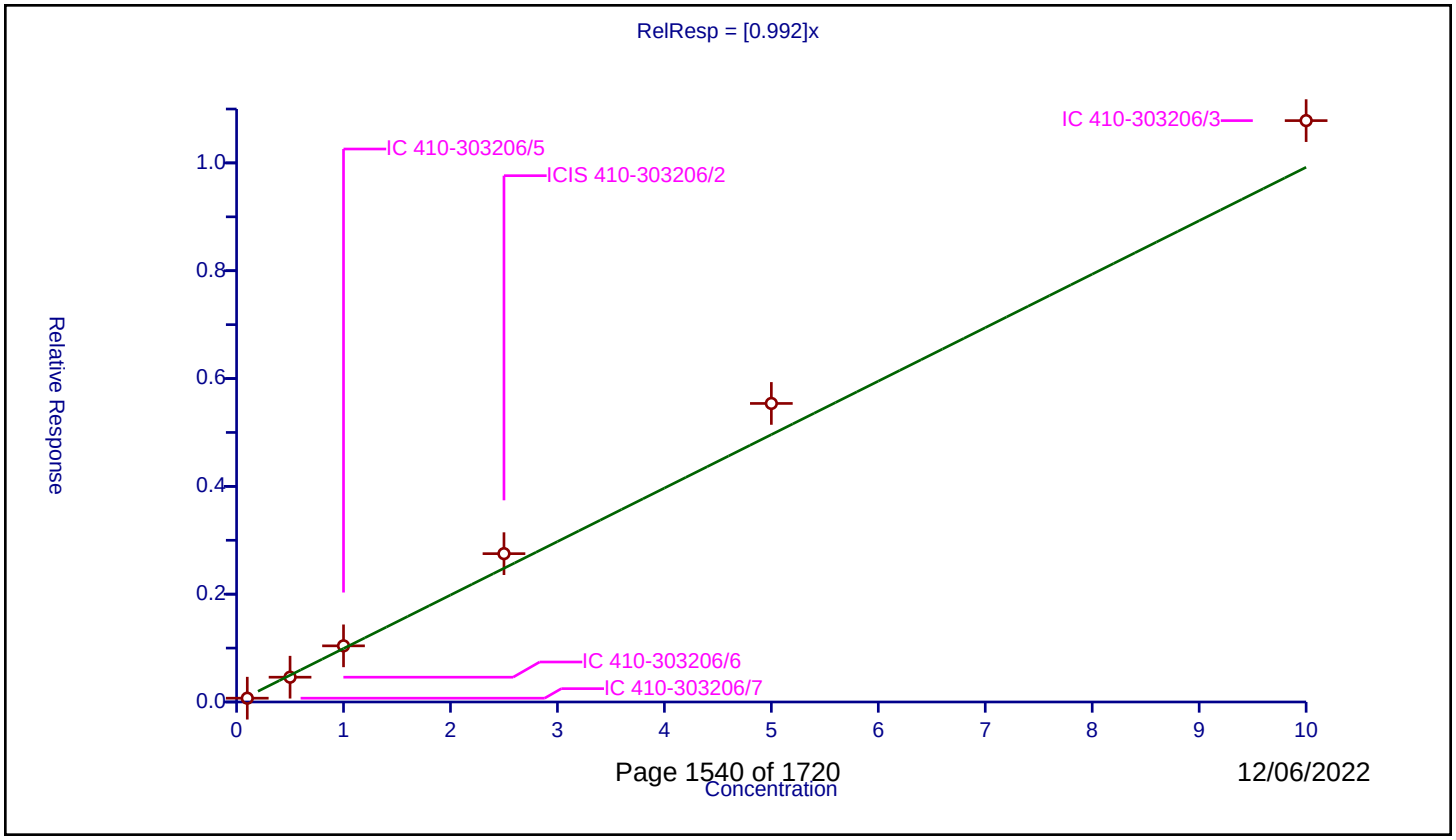
Curve Coefficients

Intercept:	0
Slope:	0.992

Error Coefficients

Standard Error:	1010000
Relative Standard Error:	15.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.975

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-303206/7	0.1	0.070368	0.25	35794.0	0.703679	Y
2	IC 410-303206/6	0.5	0.459999	0.25	38743.0	0.919998	Y
3	IC 410-303206/5	1.0	1.04148	0.25	44708.0	1.04148	Y
4	ICIS 410-303206/2	2.5	2.751426	0.25	47679.0	1.10057	Y
5	IC 410-303206/4	5.0	5.538324	0.25	45579.0	1.107665	Y
6	IC 410-303206/3	10.0	10.784672	0.25	45015.0	1.078467	Y



Calibration / Benzo[b]fluoranthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

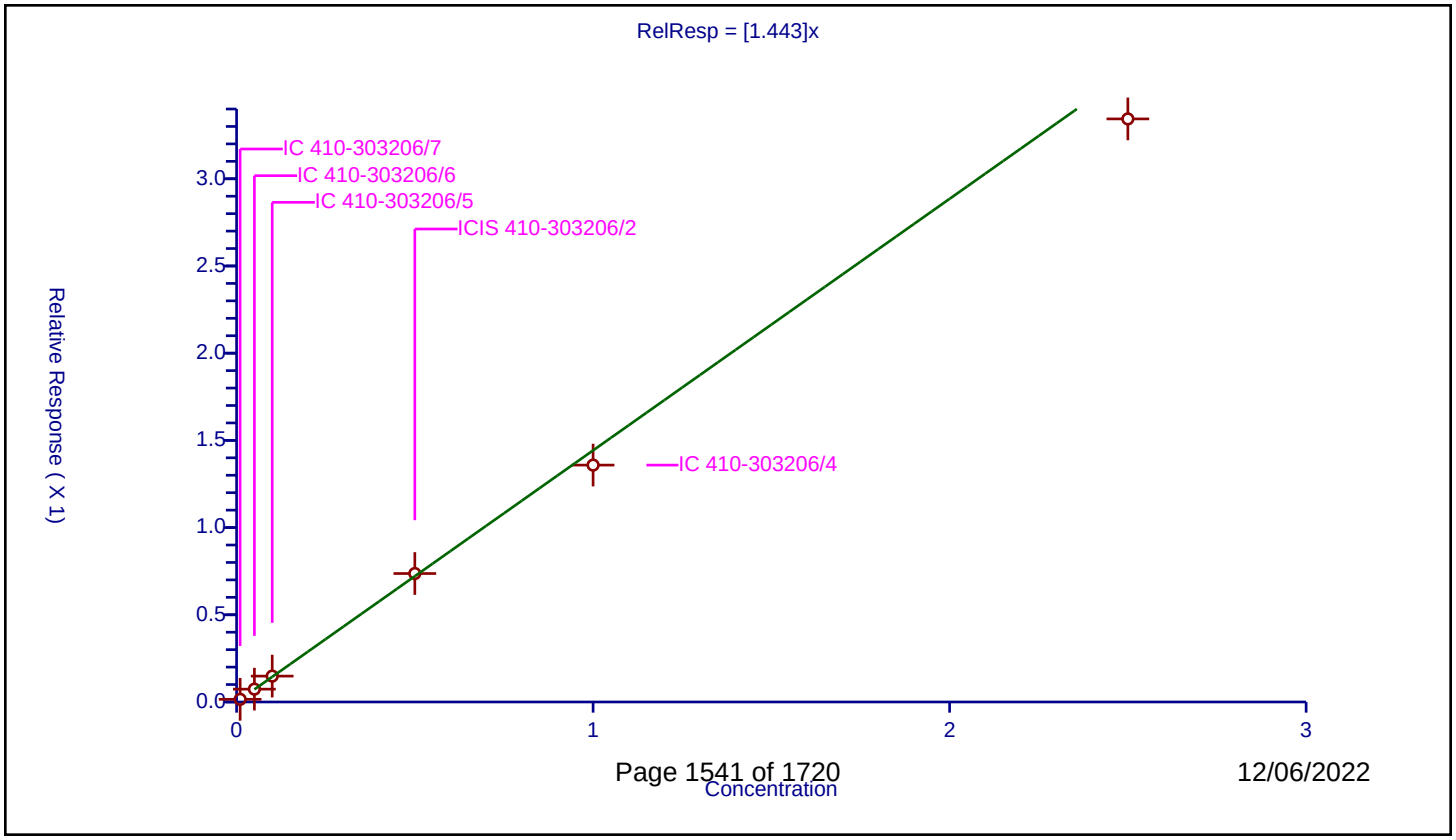
Curve Coefficients

Intercept:	0
Slope:	1.443

Error Coefficients

Standard Error:	298000
Relative Standard Error:	5.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-303206/7	0.01	0.015296	0.25	35794.0	1.529586	Y
2	IC 410-303206/6	0.05	0.073646	0.25	38743.0	1.472911	Y
3	IC 410-303206/5	0.1	0.148413	0.25	44708.0	1.48413	Y
4	ICIS 410-303206/2	0.5	0.736551	0.25	47679.0	1.473101	Y
5	IC 410-303206/4	1.0	1.358246	0.25	45579.0	1.358246	Y
6	IC 410-303206/3	2.5	3.343208	0.25	45015.0	1.337283	Y



Calibration / Benzo[k]fluoranthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

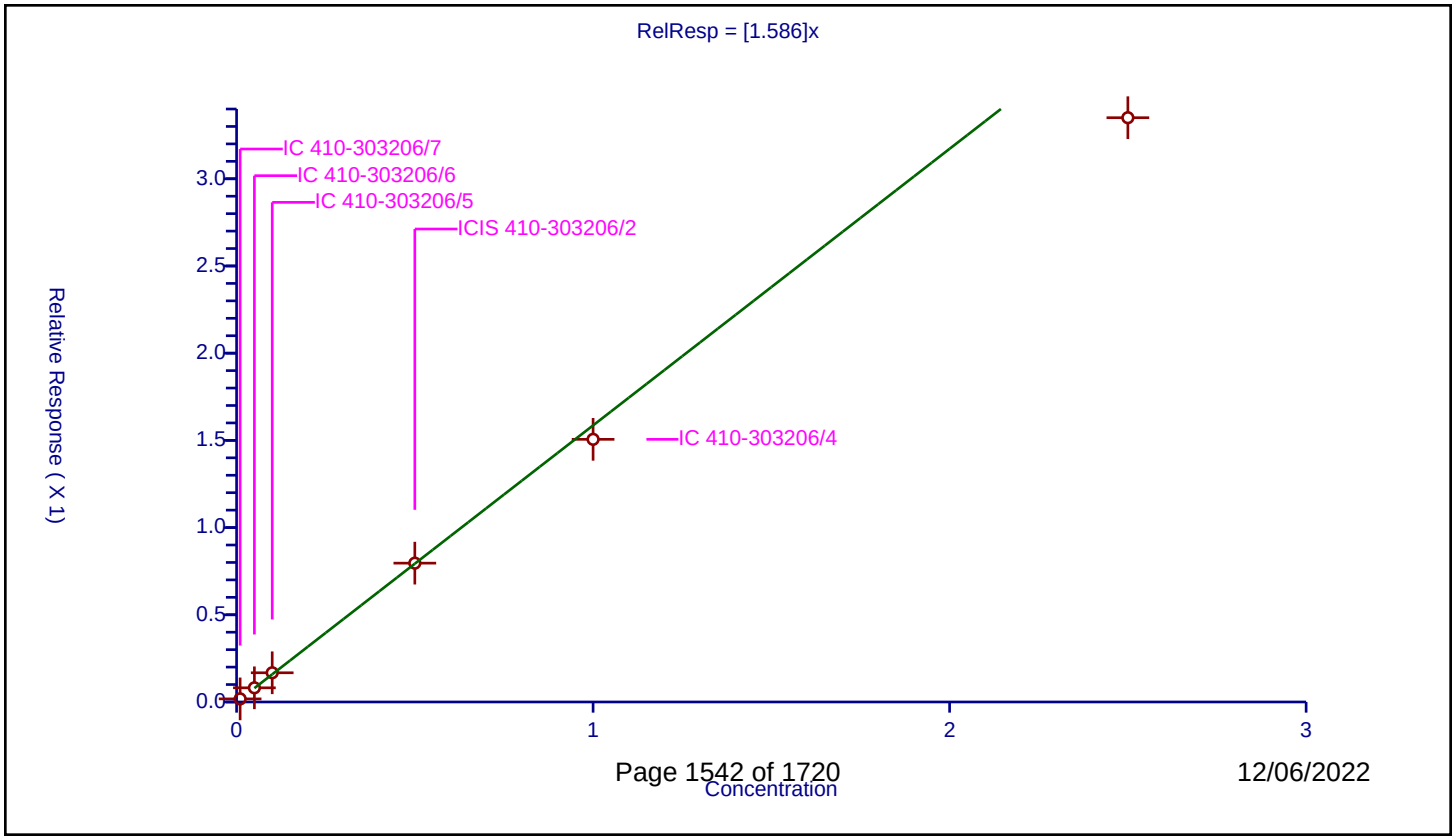
Curve Coefficients

Intercept:	0
Slope:	1.586

Error Coefficients

Standard Error:	304000
Relative Standard Error:	9.4
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-303206/7	0.01	0.017747	0.25	35794.0	1.774739	Y
2	IC 410-303206/6	0.05	0.081331	0.25	38743.0	1.626616	Y
3	IC 410-303206/5	0.1	0.167571	0.25	44708.0	1.675707	Y
4	ICIS 410-303206/2	0.5	0.796121	0.25	47679.0	1.592242	Y
5	IC 410-303206/4	1.0	1.506066	0.25	45579.0	1.506066	Y
6	IC 410-303206/3	2.5	3.350133	0.25	45015.0	1.340053	Y



Calibration / Benzo[e]pyrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

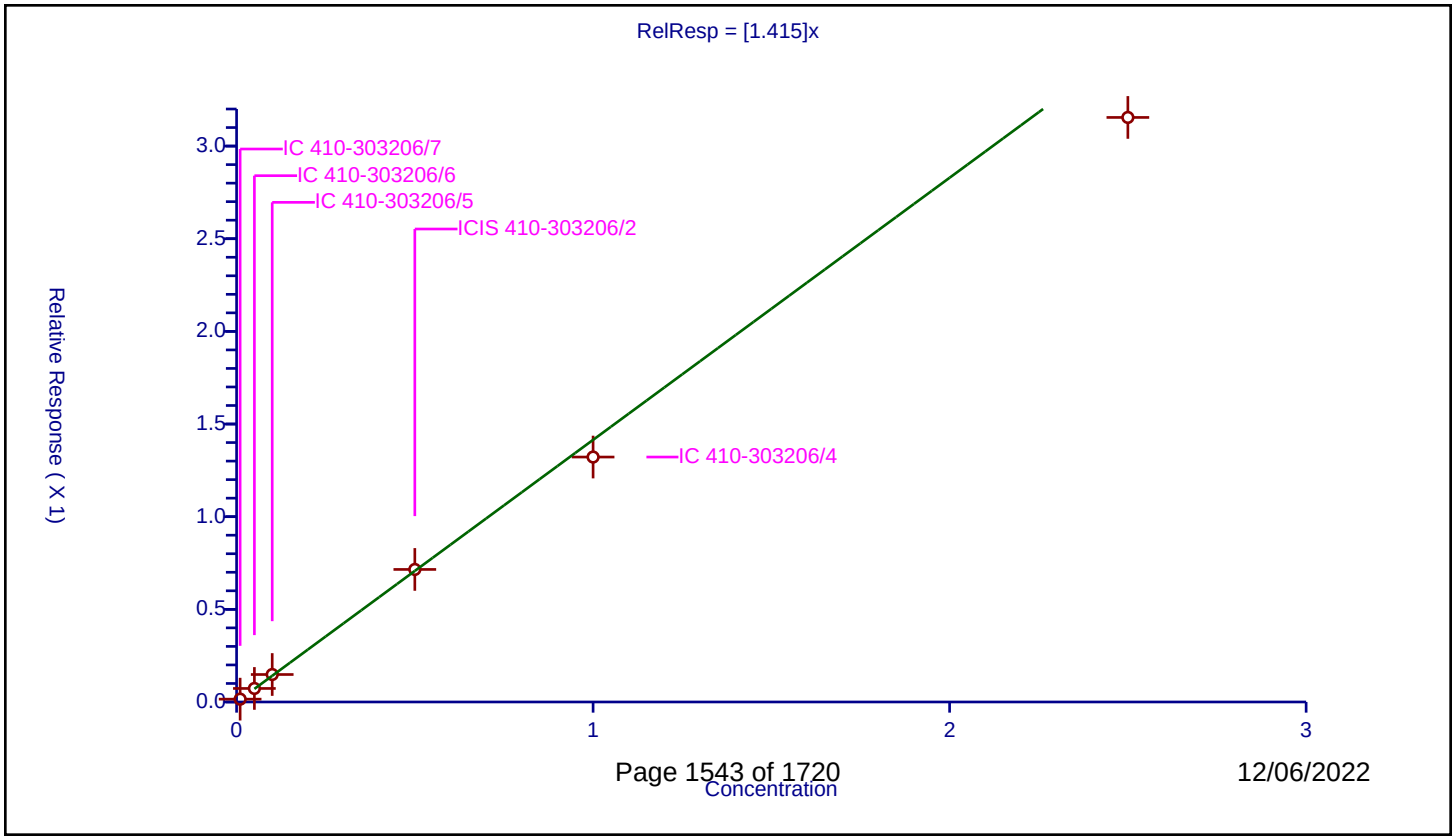
Curve Coefficients

Intercept:	0
Slope:	1.415

Error Coefficients

Standard Error:	283000
Relative Standard Error:	7.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-303206/7	0.01	0.015289	0.25	35794.0	1.528888	Y
2	IC 410-303206/6	0.05	0.073052	0.25	38743.0	1.461038	Y
3	IC 410-303206/5	0.1	0.148312	0.25	44708.0	1.483124	Y
4	ICIS 410-303206/2	0.5	0.715242	0.25	47679.0	1.430483	Y
5	IC 410-303206/4	1.0	1.321892	0.25	45579.0	1.321892	Y
6	IC 410-303206/3	2.5	3.154493	0.25	45015.0	1.261797	Y



Calibration / Benzo(a)pyrene-d12 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

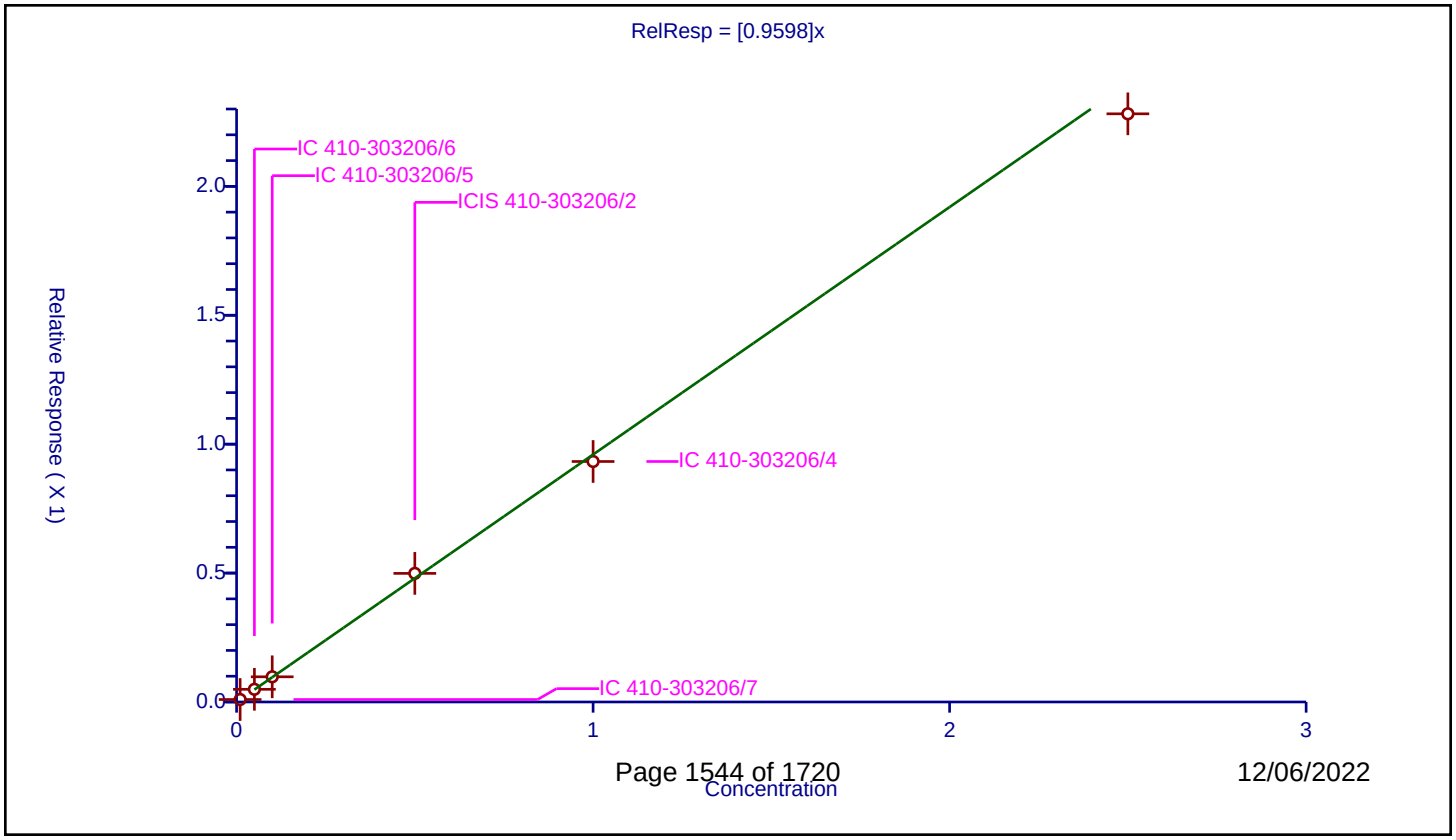
Curve Coefficients

Intercept:	0
Slope:	0.9598

Error Coefficients

Standard Error:	204000
Relative Standard Error:	3.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-303206/7	0.01	0.009548	0.25	35794.0	0.954769	Y
2	IC 410-303206/6	0.05	0.049196	0.25	38743.0	0.98392	Y
3	IC 410-303206/5	0.1	0.097717	0.25	44708.0	0.977174	Y
4	ICIS 410-303206/2	0.5	0.498852	0.25	47679.0	0.997703	Y
5	IC 410-303206/4	1.0	0.932814	0.25	45579.0	0.932814	Y
6	IC 410-303206/3	2.5	2.28139	0.25	45015.0	0.912556	Y



Calibration / Benzo[a]pyrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

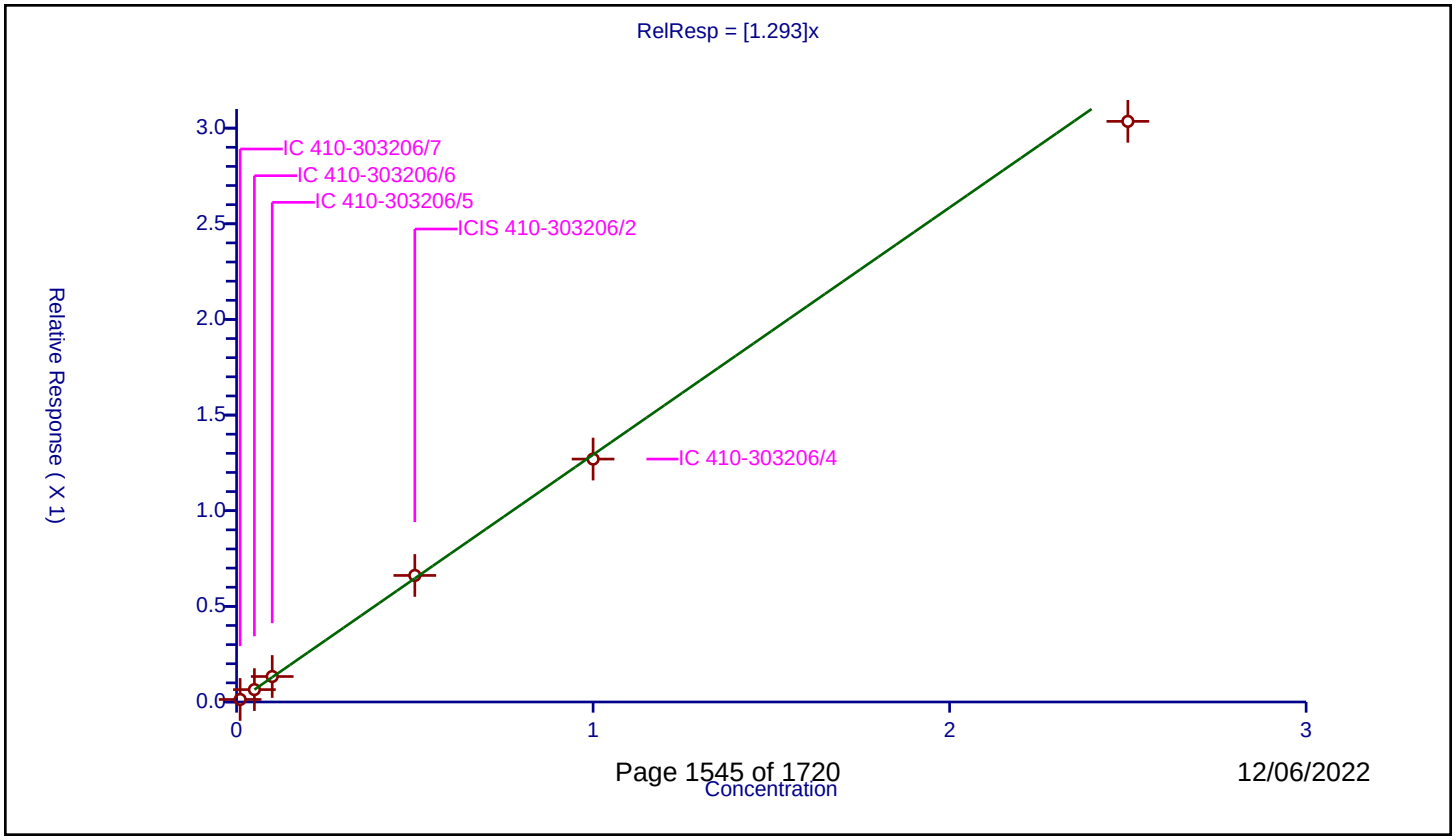
Curve Coefficients

Intercept:	0
Slope:	1.293

Error Coefficients

Standard Error:	272000
Relative Standard Error:	3.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-303206/7	0.01	0.013215	0.25	35794.0	1.321451	Y
2	IC 410-303206/6	0.05	0.064702	0.25	38743.0	1.29404	Y
3	IC 410-303206/5	0.1	0.133254	0.25	44708.0	1.332536	Y
4	ICIS 410-303206/2	0.5	0.661628	0.25	47679.0	1.323256	Y
5	IC 410-303206/4	1.0	1.269932	0.25	45579.0	1.269932	Y
6	IC 410-303206/3	2.5	3.035455	0.25	45015.0	1.214182	Y



Calibration / Perylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

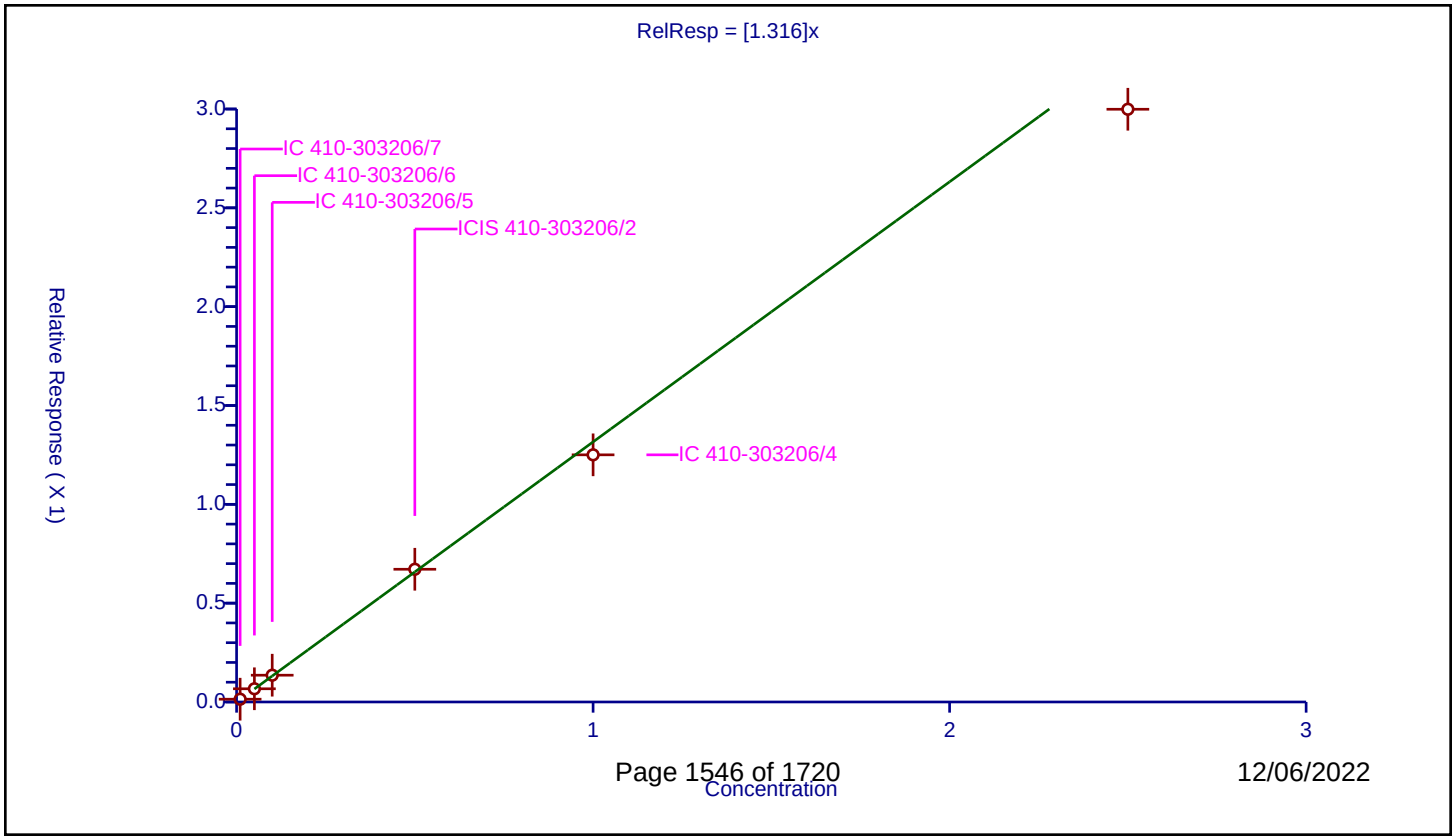
Curve Coefficients

Intercept:	0
Slope:	1.316

Error Coefficients

Standard Error:	269000
Relative Standard Error:	5.8
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-303206/7	0.01	0.014095	0.25	35794.0	1.409454	Y
2	IC 410-303206/6	0.05	0.066877	0.25	38743.0	1.337532	Y
3	IC 410-303206/5	0.1	0.135529	0.25	44708.0	1.355294	Y
4	ICIS 410-303206/2	0.5	0.671491	0.25	47679.0	1.342981	Y
5	IC 410-303206/4	1.0	1.2504	0.25	45579.0	1.2504	Y
6	IC 410-303206/3	2.5	2.998745	0.25	45015.0	1.199498	Y



Calibration / Indeno[1,2,3-cd]pyrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

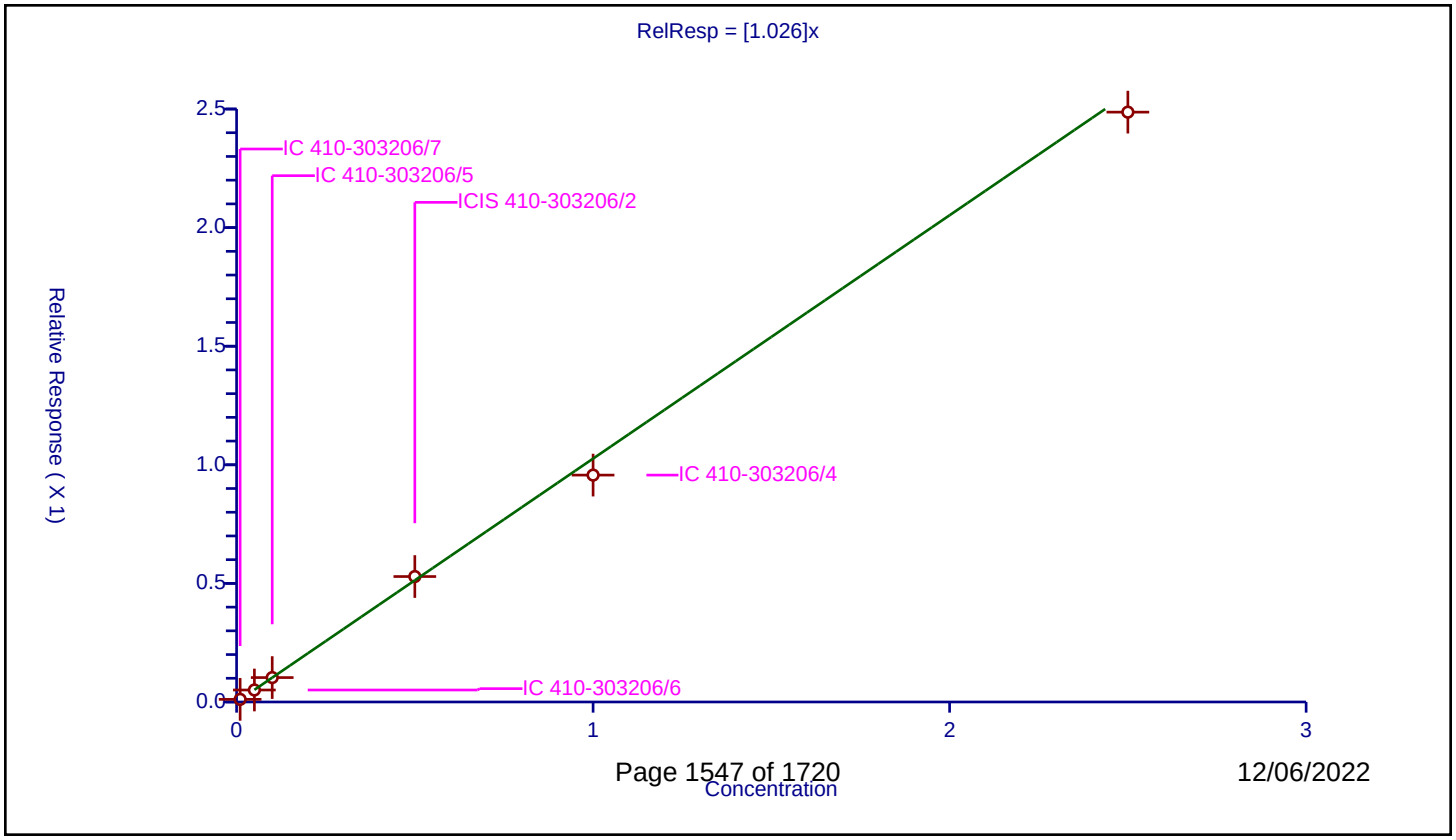
Curve Coefficients

Intercept:	0
Slope:	1.026

Error Coefficients

Standard Error:	220000
Relative Standard Error:	5.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-303206/7	0.01	0.011077	0.25	35794.0	1.107728	Y
2	IC 410-303206/6	0.05	0.050545	0.25	38743.0	1.010892	Y
3	IC 410-303206/5	0.1	0.102873	0.25	44708.0	1.028731	Y
4	ICIS 410-303206/2	0.5	0.528881	0.25	47679.0	1.057761	Y
5	IC 410-303206/4	1.0	0.956542	0.25	45579.0	0.956542	Y
6	IC 410-303206/3	2.5	2.486899	0.25	45015.0	0.99476	Y



Calibration / Dibenz(a,h)anthracene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

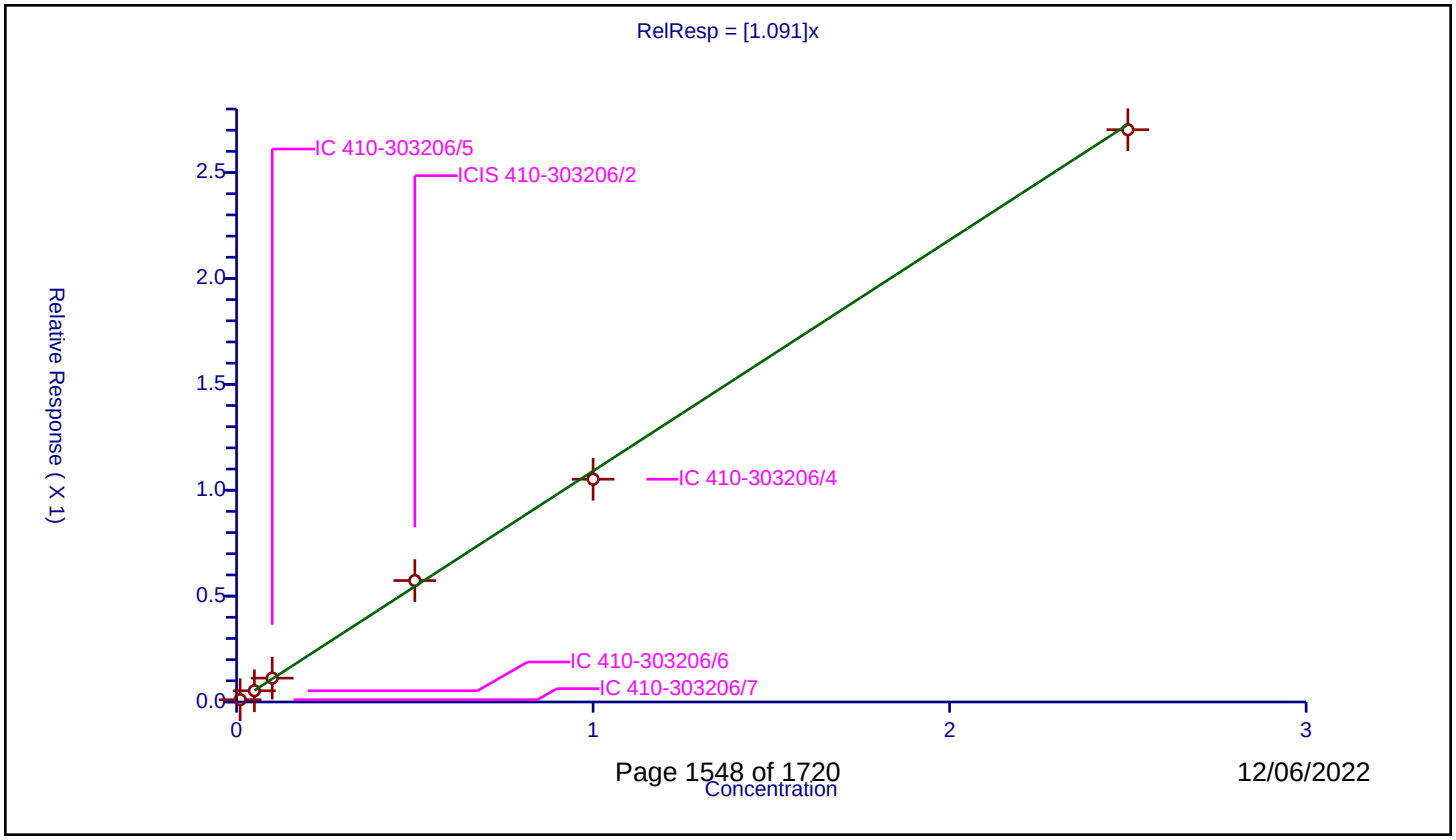
Curve Coefficients

Intercept:	0
Slope:	1.091

Error Coefficients

Standard Error:	239000
Relative Standard Error:	3.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-303206/7	0.01	0.010756	0.25	35794.0	1.075599	Y
2	IC 410-303206/6	0.05	0.053068	0.25	38743.0	1.061353	Y
3	IC 410-303206/5	0.1	0.11281	0.25	44708.0	1.128098	Y
4	ICIS 410-303206/2	0.5	0.573329	0.25	47679.0	1.146658	Y
5	IC 410-303206/4	1.0	1.051915	0.25	45579.0	1.051915	Y
6	IC 410-303206/3	2.5	2.702333	0.25	45015.0	1.080933	Y



Calibration / Benzo[g,h,i]perylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

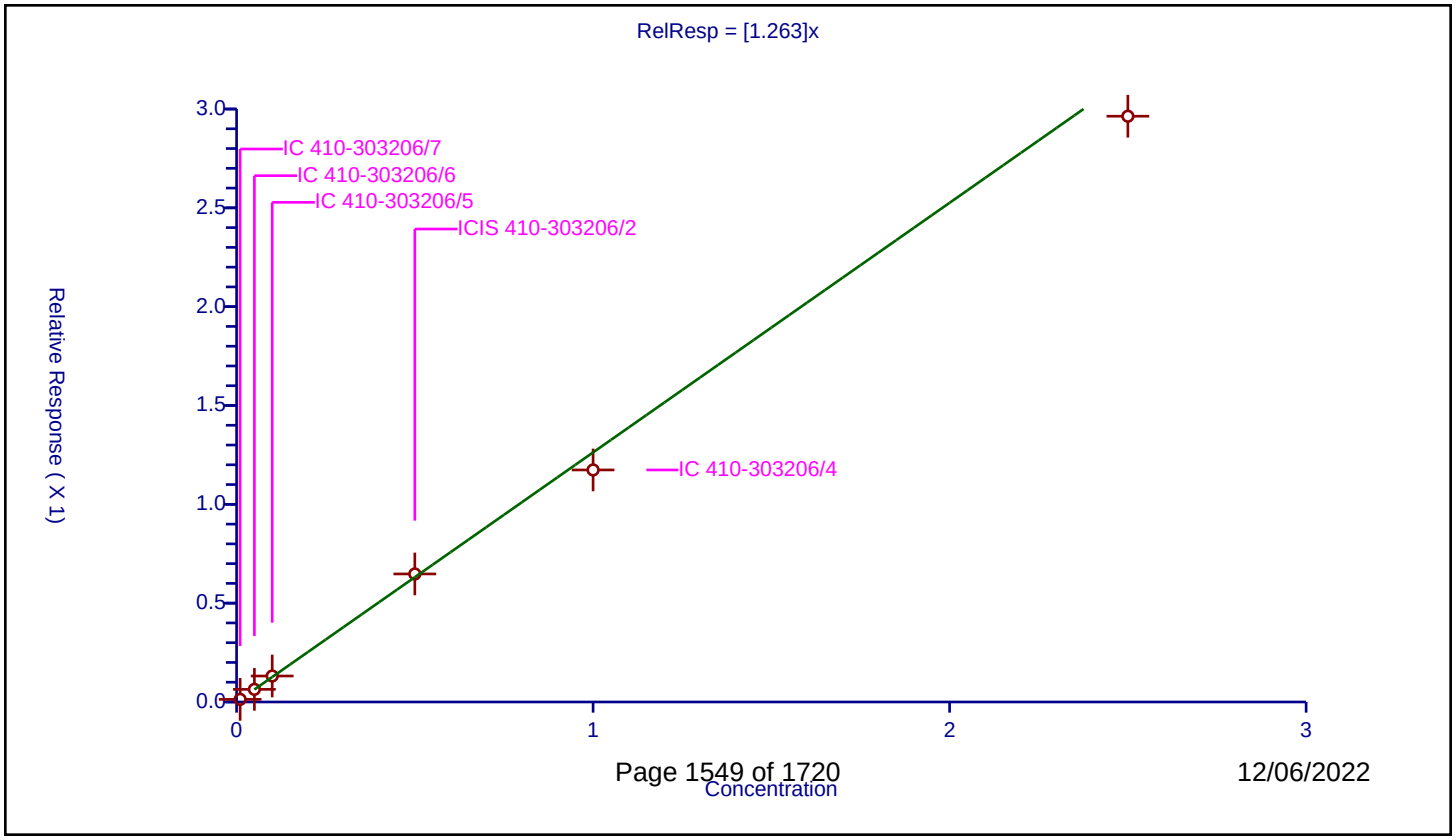
Curve Coefficients

Intercept:	0
Slope:	1.263

Error Coefficients

Standard Error:	263000
Relative Standard Error:	5.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-303206/7	0.01	0.013291	0.25	35794.0	1.329133	Y
2	IC 410-303206/6	0.05	0.063889	0.25	38743.0	1.277779	Y
3	IC 410-303206/5	0.1	0.131481	0.25	44708.0	1.314809	Y
4	ICIS 410-303206/2	0.5	0.647811	0.25	47679.0	1.295623	Y
5	IC 410-303206/4	1.0	1.173967	0.25	45579.0	1.173967	Y
6	IC 410-303206/3	2.5	2.963518	0.25	45015.0	1.185407	Y



FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-106360-1

SDG No.:

Lab Sample ID (1): ICIS 410-280637/2 Instrument ID (1): HP21585

GC Column (1): DB-5MS 30m 0. ID: 0.25(mm) Date Analyzed (1): 07/28/2022 19:23

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	12.92	14.70

Resolution Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20220728-62933.b\MG1351b.D				
Injection Date:	28-Jul-2022 19:23:20	Instrument ID:	HP21585		
Lims ID:	ICIS L4				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

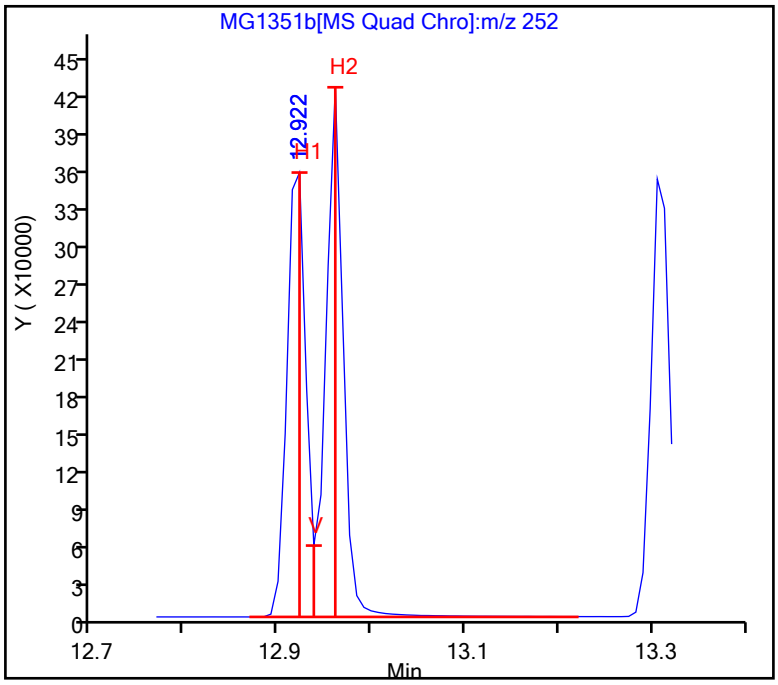
33 Benzo[b]fluoranthene - 34 Benzo[k]fluoranthene

SW-846 Method

Version D: %R = (V / ((H1 + H2)/2)) * 100

V (Valley Height) = 56483
H1(33 Benzo[b]fluoranthen) = 351582
H2(34 Benzo[k]fluoranthen) = 419049

Version D: %R = 14.7 <= 50.0
Passed



FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-106360-1

SDG No.:

Lab Sample ID (1): ICIS 410-303206/2 Instrument ID (1): HP23263

GC Column (1): DB-5MS 30m 0. ID: 0.25(mm) Date Analyzed (1): 10/05/2022 09:51

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	13.02	15.90

Resolution Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0021.D
Injection Date: 05-Oct-2022 09:51:30 Instrument ID: HP23263
Lims ID: ICIS L4
Client ID:
Operator ID: jmg00346 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

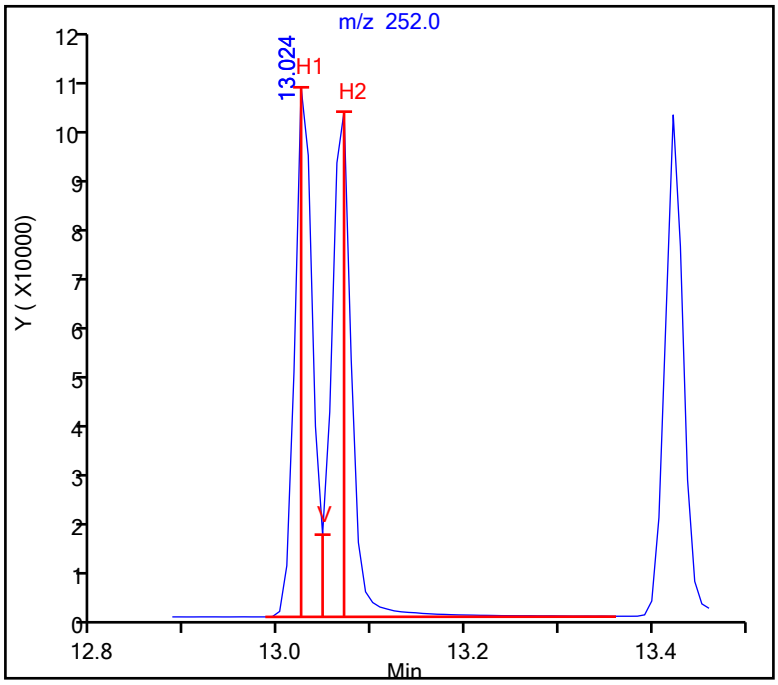
33 Benzo[b]fluoranthene - 34 Benzo[k]fluoranthene

SW-846 Method

Version D: %R = (V / ((H1 + H2)/2)) * 100

V (Valley Height) = 16475
H1(33 Benzo[b]fluoranthen) = 106118
H2(34 Benzo[k]fluoranthen) = 101232

Version D: %R = 15.9 <= 50.0
Passed



FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-106360-1

SDG No.:

Lab Sample ID (1): CCVIS 410-321961/2 Instrument ID (1): HP23263

GC Column (1): DB-5MS 30m 0. ID: 0.25(mm) Date Analyzed (1): 11/30/2022 05:33

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	12.93	19.80

Resolution Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1401.D				
Injection Date:	30-Nov-2022 05:33:30	Instrument ID:	HP23263		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

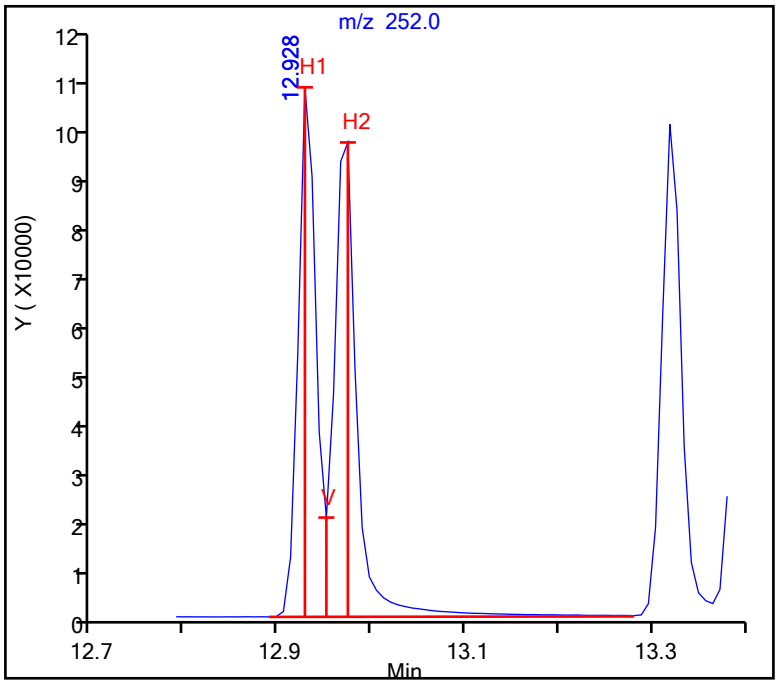
33 Benzo[b]fluoranthene - 34 Benzo[k]fluoranthene

SW-846 Method

Version D: %R = (V / ((H1 + H2)/2)) * 100

V (Valley Height) = 19509
H1(33 Benzo[b]fluoranthen) = 104067
H2(34 Benzo[k]fluoranthen) = 93224

Version D: %R = 19.8 <= 50.0
Passed



FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-106360-1

SDG No.:

Lab Sample ID (1): CCVIS 410-322405/2 Instrument ID (1): HP21585

GC Column (1): DB-5MS 30m 0. ID: 0.25(mm) Date Analyzed (1): 12/01/2022 05:47

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	12.62	21.20

Resolution Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20221201-72264.b\ML0011.D				
Injection Date:	01-Dec-2022 05:47:13	Instrument ID:	HP21585		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

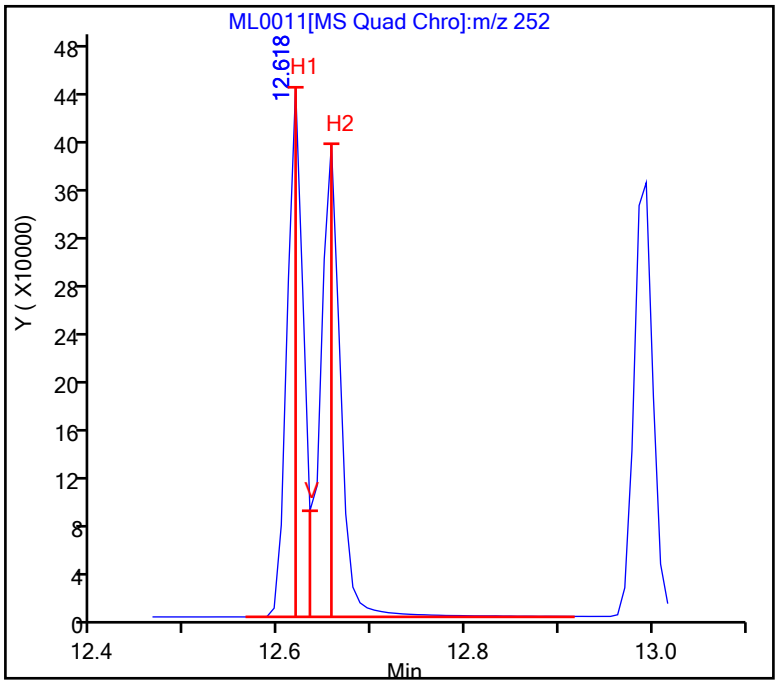
33 Benzo[b]fluoranthene - 34 Benzo[k]fluoranthene

SW-846 Method

Version D: %R = (V / ((H1 + H2)/2)) * 100

V (Valley Height) = 87642
H1(33 Benzo[b]fluoranthen) = 436960
H2(34 Benzo[k]fluoranthen) = 390389

Version D: %R = 21.2 <= 50.0
Passed



FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-106360-1

SDG No.:

Lab Sample ID (1): CCVIS 410-323522/2 Instrument ID (1): HP23263

GC Column (1): DB-5MS 30m 0. ID: 0.25(mm) Date Analyzed (1): 12/05/2022 05:19

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	12.92	22.40

Resolution Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\NL0161.D
Injection Date: 05-Dec-2022 05:19:30 Instrument ID: HP23263
Lims ID: CCVIS
Client ID:
Operator ID: jmg00346 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

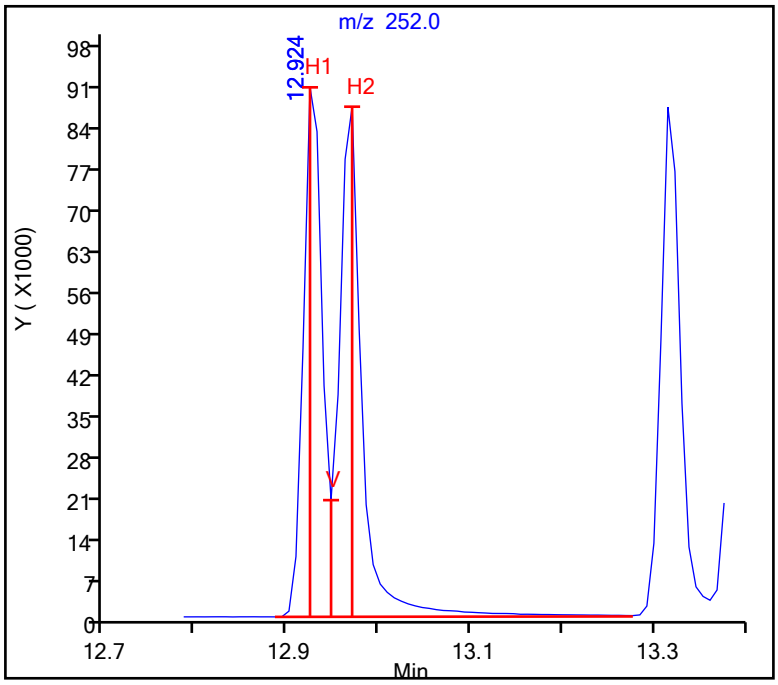
33 Benzo[b]fluoranthene - 34 Benzo[k]fluoranthene

SW-846 Method

Version D: %R = (V / ((H1 + H2)/2)) * 100

V (Valley Height) = 19861
H1(33 Benzo[b]fluoranthen) = 90130
H2(34 Benzo[k]fluoranthen) = 86825

Version D: %R = 22.4 <= 50.0
Passed



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-106360-1

SDG No.:

Lab Sample ID: ICV 410-280637/9 Calibration Date: 07/28/2022 22:14

Instrument ID: HP21585 Calib Start Date: 07/28/2022 19:23

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 07/28/2022 21:32

Lab File ID: MG1358.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.7031	0.6348		0.226	0.250	-9.7	30.0
N-Nitrosodimethylamine	Ave	0.8605	1.021		0.297	0.250	18.7	30.0
Bis(2-chloroethyl)ether	Ave	0.4374	0.4393		0.251	0.250	0.4	30.0
Naphthalene	Ave	1.250	1.087		0.217	0.250	-13.0	30.0
2-Methylnaphthalene	Ave	0.7695	0.6499		0.211	0.250	-15.5	30.0
1-Methylnaphthalene	Ave	0.7186	0.6076		0.211	0.250	-15.5	30.0
Dimethylphthalate	Ave	1.244	1.167		0.235	0.250	-6.2	30.0
Acenaphthylene	Ave	2.019	1.692		0.209	0.250	-16.2	30.0
Acenaphthene	Ave	1.253	1.079		0.215	0.250	-13.9	30.0
Dibenzofuran	Ave	1.903	1.637		0.215	0.250	-14.0	30.0
Diethylphthalate	Ave	1.191	1.095		0.230	0.250	-8.1	30.0
Fluorene	Ave	1.474	1.257		0.213	0.250	-14.7	30.0
N-Nitrosodiphenylamine	Ave	0.4872	0.5625		0.245	0.213	15.5	30.0
Hexachlorobenzene	Ave	0.2366	0.2077		0.219	0.250	-12.2	30.0
Phenanthrene	Ave	1.199	1.035		0.216	0.250	-13.7	30.0
Anthracene	Ave	1.118	0.9905		0.221	0.250	-11.4	30.0
Di-n-butyl phthalate	Ave	0.9186	0.7571		0.206	0.250	-17.6	30.0
Fluoranthene	Ave	1.299	1.052		0.203	0.250	-19.0	30.0
Pyrene	Ave	1.636	1.360		0.208	0.250	-16.9	30.0
Butylbenzylphthalate	Qua2		0.2379		0.213	0.250	-14.7	30.0
Benzo[a]anthracene	Ave	1.311	1.084		0.207	0.250	-17.3	30.0
Chrysene	Ave	1.465	1.252		0.214	0.250	-14.6	30.0
Bis(2-ethylhexyl) phthalate	Qua2		0.3455		0.206	0.250	-17.7	30.0
Di-n-octyl phthalate	Qua2		0.5474		0.203	0.250	-18.7	30.0
Benzo[b]fluoranthene	Ave	1.358	1.166		0.215	0.250	-14.1	30.0
Benzo[k]fluoranthene	Ave	1.449	1.350		0.233	0.250	-6.9	30.0
Benzo[a]pyrene	Ave	1.239	1.001		0.202	0.250	-19.2	30.0
Indeno[1,2,3-cd]pyrene	Ave	1.053	0.9419		0.224	0.250	-10.5	30.0
Dibenz(a,h)anthracene	Ave	1.222	1.110		0.227	0.250	-9.2	30.0
Benzo[g,h,i]perylene	Ave	1.349	1.197		0.222	0.250	-11.3	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220728-62933.b\MG1358.D
Lims ID: ICV FULL
Client ID:
Sample Type: ICV
Inject. Date: 28-Jul-2022 22:14:55 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICV FULL
Misc. Info.: 410-0062933-009
Operator ID: kel10217 Instrument ID: HP21585
Sublist:

Method: \\chromfs\Lancaster\ChromData\HP21585\20220728-62933.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 29-Jul-2022 11:59:38 Calib Date: 28-Jul-2022 21:32:00
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20220728-62933.b\MG1356.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1671

First Level Reviewer: UJM0 Date: 29-Jul-2022 06:48:12

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	1.850	1.859	-0.009	89	45551	0.2500	0.2257	M
	2 N-Nitrosodimethylamine	74	2.135	2.152	-0.017	90	73272	0.2500	0.2967	
	3 Bis(2-chloroethyl)ether	93	4.305	4.305	0.000	84	110284	0.2500	0.2511	M
*	4 1,4-Dichlorobenzene-d4	152	4.580	4.567	0.013	95	71756	0.2500	0.2500	
*	5 Naphthalene-d8	136	5.754	5.754	0.000	91	251024	0.2500	0.2500	
	6 Naphthalene	128	5.779	5.779	0.000	92	272750	0.2500	0.2174	
	8 2-Methylnaphthalene	142	6.426	6.426	0.000	98	163140	0.2500	0.2111	
	10 1-Methylnaphthalene	142	6.525	6.525	0.000	96	152516	0.2500	0.2114	
	11 Dimethyl phthalate	163	7.155	7.155	0.000	75	158697	0.2500	0.2345	
	12 Acenaphthylene	152	7.283	7.283	0.000	96	230100	0.2500	0.2094	
*	13 Acenaphthene-d10	164	7.421	7.411	0.010	96	136033	0.2500	0.2500	
	14 Acenaphthene	154	7.441	7.441	0.000	88	146769	0.2500	0.2152	
	15 Dibenzofuran	168	7.608	7.608	0.000	95	222745	0.2500	0.2151	
	16 Diethyl phthalate	149	7.832	7.824	0.008	99	148904	0.2500	0.2297	
	17 Fluorene	166	7.933	7.933	0.000	98	170965	0.2500	0.2132	
	18 N-Nitrosodiphenylamine	169	8.050	8.050	0.000	98	116376	0.2125	0.2453	
	19 Hexachlorobenzene	284	8.448	8.448	0.000	100	50547	0.2500	0.2195	
*	20 Phenanthrene-d10	188	8.823	8.823	0.000	95	243385	0.2500	0.2500	
	21 Phenanthrene	178	8.846	8.846	0.000	100	251916	0.2500	0.2158	
	22 Anthracene	178	8.893	8.893	0.000	100	241070	0.2500	0.2214	
	23 Di-n-butyl phthalate	149	9.395	9.388	0.007	100	184259	0.2500	0.2060	
	25 Fluoranthene	202	9.978	9.978	0.000	100	256060	0.2500	0.2025	
	26 Pyrene	202	10.197	10.197	0.000	100	269833	0.2500	0.2077	
	27 Butyl benzyl phthalate	149	10.874	10.874	0.000	100	47205	0.2500	0.2134	
	28 Benzo[a]anthracene	228	11.488	11.488	0.000	100	215160	0.2500	0.2067	
*	29 Chrysene-d12	240	11.503	11.495	0.008	59	198451	0.2500	0.2500	
	30 Chrysene	228	11.534	11.526	0.008	100	248458	0.2500	0.2136	
	31 Bis(2-ethylhexyl) phthalate	149	11.564	11.565	0.000	100	68558	0.2500	0.2058	
	32 Di-n-octyl phthalate	149	12.446	12.447	0.000	100	97270	0.2500	0.2031	
	33 Benzo[b]fluoranthene	252	12.914	12.914	0.000	100	207205	0.2500	0.2146	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
34 Benzo[k]fluoranthene	252	12.953	12.953	0.000	100	239855	0.2500	0.2328	
37 Benzo[a]pyrene	252	13.374	13.374	0.000	100	177885	0.2500	0.2021	
* 38 Perylene-d12	264	13.459	13.459	0.000	100	177699	0.2500	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	15.103	15.096	0.007	100	167368	0.2500	0.2237	M
41 Dibenz(a,h)anthracene	278	15.152	15.152	0.000	98	197244	0.2500	0.2270	
42 Benzo[g,h,i]perylene	276	15.562	15.562	0.000	99	212761	0.2500	0.2218	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_ICV_00031 Amount Added: 1.00 Units: mL

Report Date: 29-Jul-2022 12:03:25 Chrom Revision: 2.3 19-Jul-2022 21:48:42

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220728-62933.b\MG1358.D

Injection Date: 28-Jul-2022 22:14:55 Instrument ID: HP21585 Operator ID: kel10217

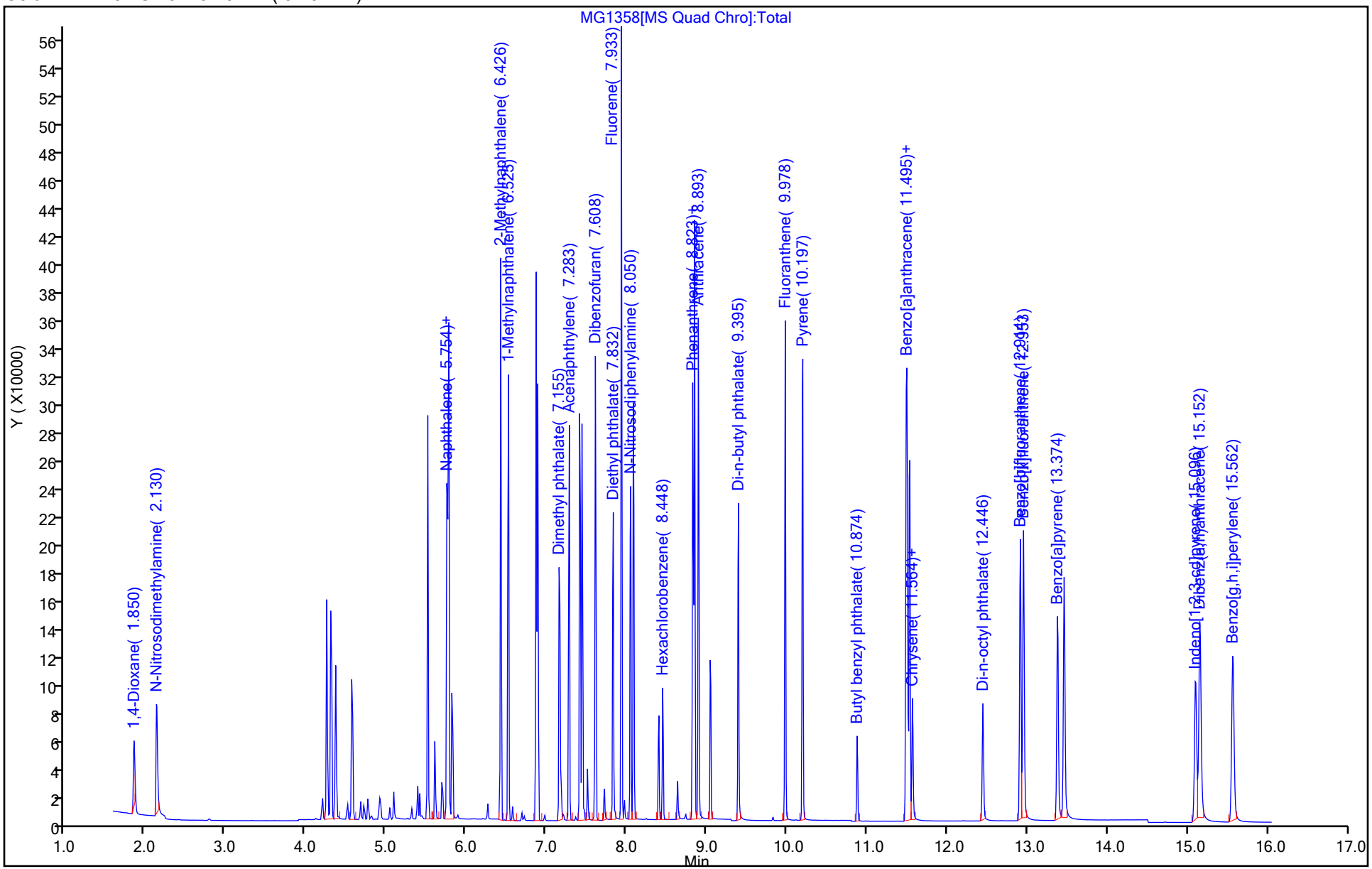
Lims ID: ICV FULL Worklist Smp#: 9

Client ID:

Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 0

Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

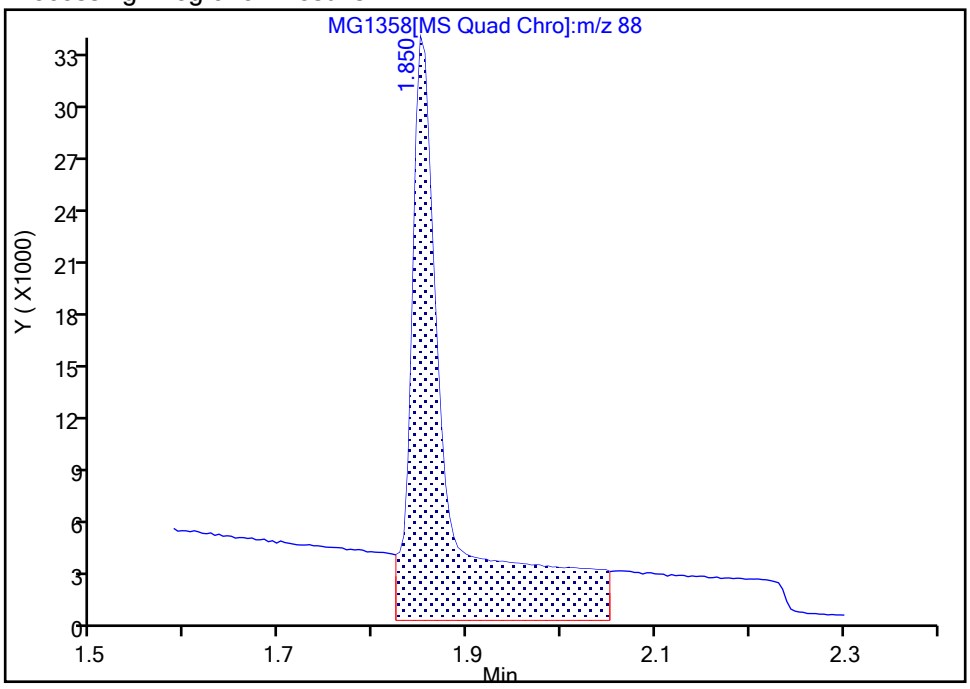
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20220728-62933.b\MG1358.D				
Injection Date:	28-Jul-2022 22:14:55	Instrument ID:	HP21585		
Lims ID:	ICV FULL				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

1 1,4-Dioxane, CAS: 123-91-1

Signal: 1

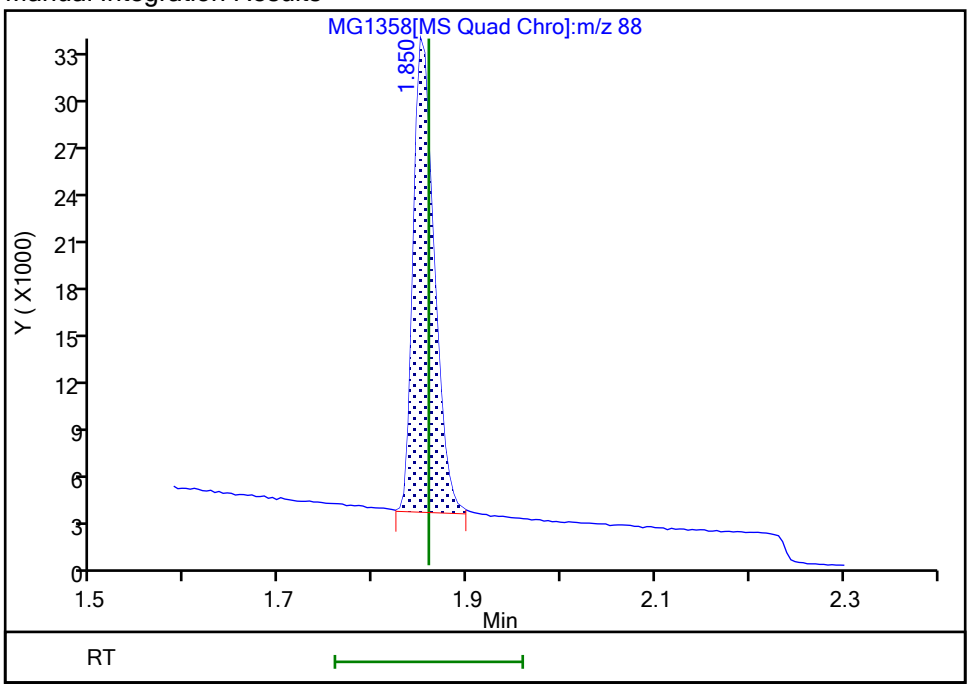
Processing Integration Results

RT: 1.85
Area: 90645
Amount: 0.449176
Amount Units: ug/ml



Manual Integration Results

RT: 1.85
Area: 45551
Amount: 0.225720
Amount Units: ug/ml



Reviewer: UJM0, 29-Jul-2022 06:46:53
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

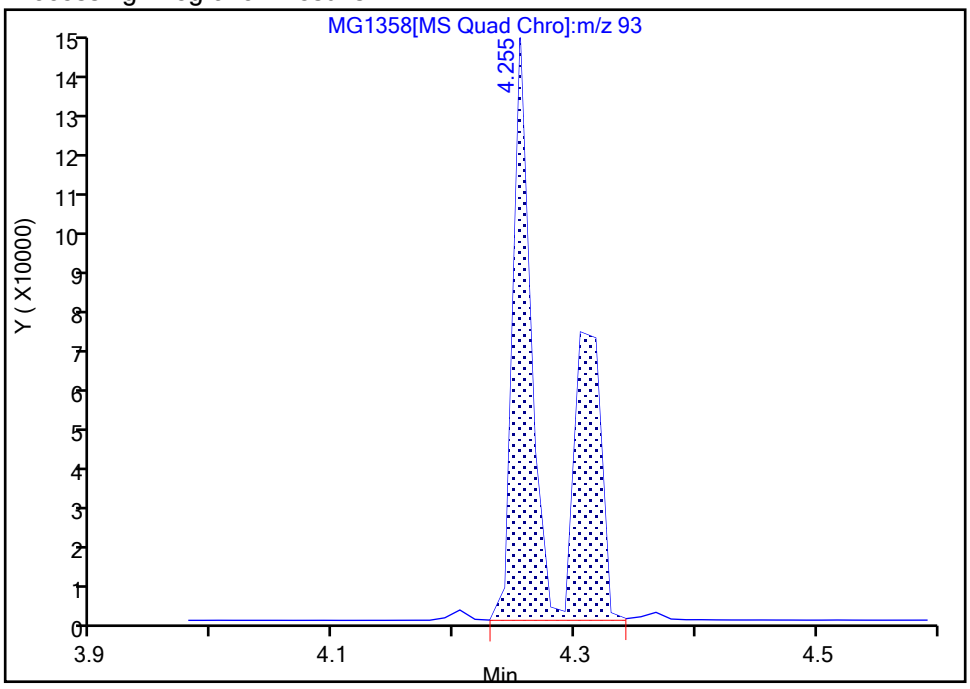
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20220728-62933.b\MG1358.D				
Injection Date:	28-Jul-2022 22:14:55	Instrument ID:	HP21585		
Lims ID:	ICV FULL				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

3 Bis(2-chloroethyl)ether, CAS: 111-44-4

Signal: 1

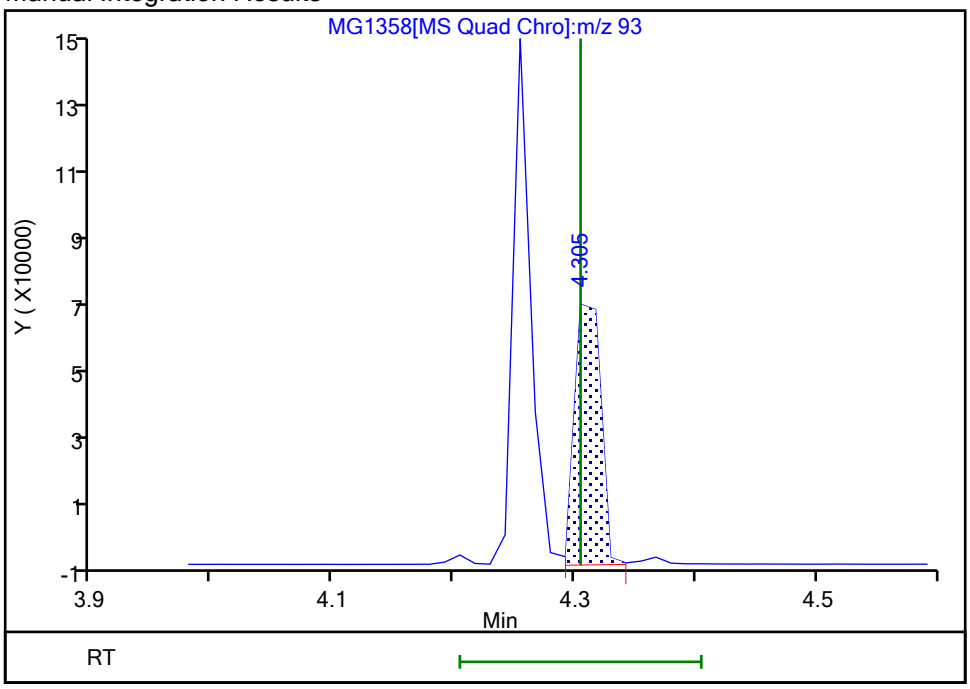
Processing Integration Results

RT: 4.25
Area: 260909
Amount: 0.594026
Amount Units: ug/ml



Manual Integration Results

RT: 4.30
Area: 110284
Amount: 0.251090
Amount Units: ug/ml



Reviewer: UJM0, 29-Jul-2022 06:47:00
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

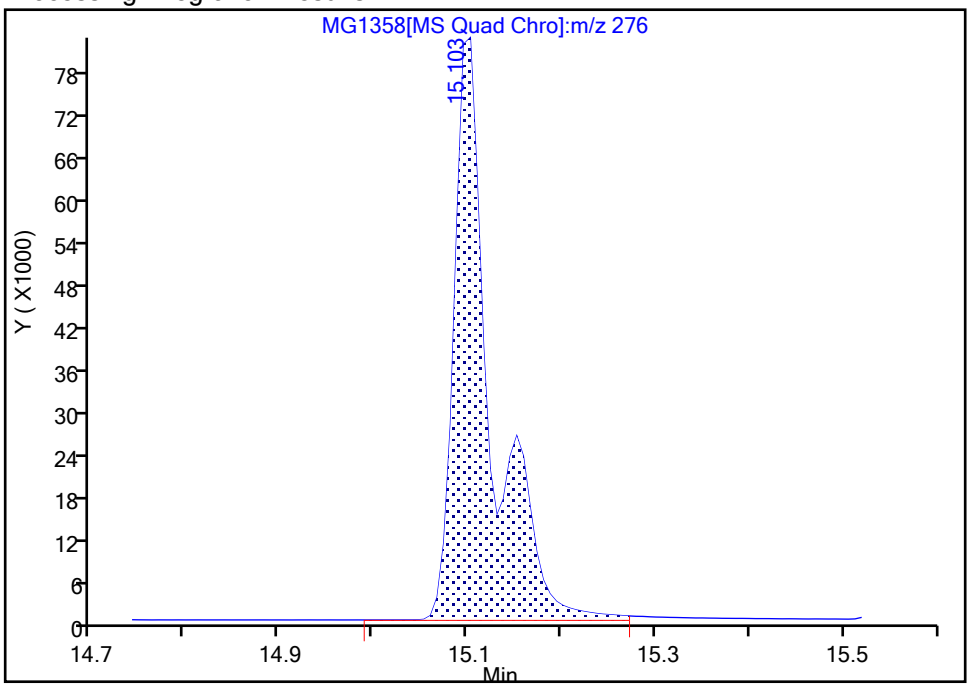
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20220728-62933.b\MG1358.D				
Injection Date:	28-Jul-2022 22:14:55	Instrument ID:	HP21585		
Lims ID:	ICV FULL				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

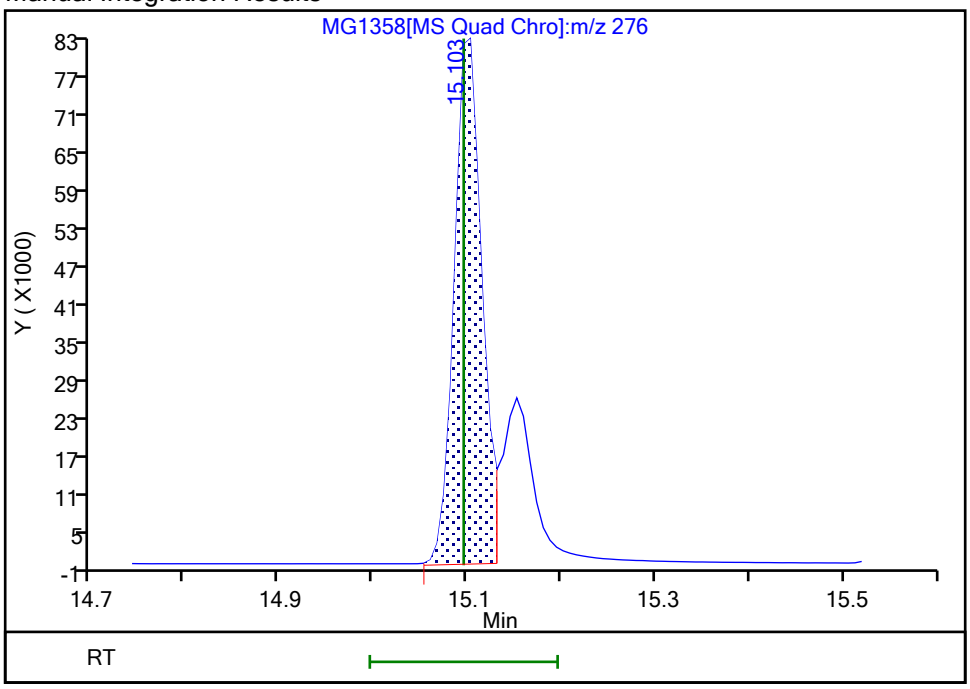
Processing Integration Results

RT: 15.10
Area: 229962
Amount: 0.307322
Amount Units: ug/ml



Manual Integration Results

RT: 15.10
Area: 167368
Amount: 0.223671
Amount Units: ug/ml



Reviewer: UJM0, 29-Jul-2022 06:47:23

Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-106360-1

SDG No.:

Lab Sample ID: CCVIS 410-322405/2 Calibration Date: 12/01/2022 05:47

Instrument ID: HP21585 Calib Start Date: 07/28/2022 19:23

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 07/28/2022 21:32

Lab File ID: ML0011.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.7031	0.5267		0.375	0.500	-25.1*	20.0
N-Nitrosodimethylamine	Ave	0.8605	0.4026		0.234	0.500	-53.2*	20.0
Bis(2-chloroethyl)ether	Ave	0.4374	0.2860		0.327	0.500	-34.6*	20.0
Naphthalene	Ave	1.250	1.121		0.448	0.500	-10.3	20.0
Quinoline	Ave	0.7350	0.6339		0.431	0.500	-13.8	20.0
2-Methylnaphthalene	Ave	0.7695	0.7528		0.489	0.500	-2.2	20.0
1-Methylnaphthalene	Ave	0.7186	0.7108		0.495	0.500	-1.1	20.0
Dimethylphthalate	Ave	1.244	1.319		2.65	2.50	6.0	20.0
Acenaphthylene	Ave	2.019	1.842		0.456	0.500	-8.8	20.0
Acenaphthene	Ave	1.253	1.187		0.474	0.500	-5.3	20.0
Dibenzofuran	Ave	1.903	1.903		0.500	0.500	0.0	20.0
Diethylphthalate	Ave	1.191	0.0040			2.50	-99.7*	20.0
Fluorene	Ave	1.474	1.537		0.521	0.500	4.3	20.0
N-Nitrosodiphenylamine	Ave	0.4872	0.4843		0.497	0.500	-0.6	20.0
Hexachlorobenzene	Ave	0.2366	0.3278		0.693	0.500	38.5*	20.0
Phenanthrene	Ave	1.199	1.173		0.489	0.500	-2.2	20.0
Anthracene	Ave	1.118	1.100		0.492	0.500	-1.6	20.0
Di-n-butyl phthalate	Ave	0.9186	0.9379		2.55	2.50	2.1	20.0
Fluoranthene	Ave	1.299	1.388		0.534	0.500	6.9	20.0
Pyrene	Ave	1.636	1.465		0.448	0.500	-10.5	20.0
Butylbenzylphthalate	Qua2		0.3993		2.65	2.50	5.8	20.0
Benzo[a]anthracene	Ave	1.311	1.218		0.465	0.500	-7.1	20.0
Chrysene	Ave	1.465	1.431		0.488	0.500	-2.3	20.0
Bis(2-ethylhexyl) phthalate	Qua2		0.5402		2.41	2.50	-3.7	20.0
Di-n-octyl phthalate	Qua2		0.8281		2.28	2.50	-8.8	20.0
Benzo[b]fluoranthene	Ave	1.358	1.331		0.490	0.500	-2.0	20.0
Benzo[k]fluoranthene	Ave	1.449	1.500		0.517	0.500	3.5	20.0
Benzo[e]pyrene	Ave	1.310	1.322		0.505	0.500	0.9	20.0
Benzo[a]pyrene	Ave	1.239	1.200		0.485	0.500	-3.1	20.0
Perylene	Ave	1.355	1.244		0.459	0.500	-8.2	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.053	0.6886		0.327	0.500	-34.6*	20.0
Dibenz(a,h)anthracene	Ave	1.222	0.7164		0.293	0.500	-41.4*	20.0
Benzo[g,h,i]perylene	Ave	1.349	0.8965		0.332	0.500	-33.6*	20.0
1-Methylnaphthalene-d10 (Surr)	Ave	0.5713	0.5926		0.519	0.500	3.7	20.0
Fluoranthene-d10 (Surr)	Ave	1.053	1.161		0.551	0.500	10.2	20.0
Benzo(a)pyrene-d12 (Surr)	Ave	0.9242	0.9113		0.493	0.500	-1.4	20.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20221201-72264.b\ML0011.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 01-Dec-2022 05:47:13 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVIS L4
Misc. Info.: 410-0072264-002, 4
Operator ID: jmg00346 Instrument ID: HP21585
Sublist: chrom-8270_SIM_HP21585*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20221201-72264.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 01-Dec-2022 06:13:49 Calib Date: 28-Jul-2022 21:32:00
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20220728-62933.b\MG1356.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: UJM0 Date: 01-Dec-2022 06:13:44

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	1.575	1.575	0.000	84	62084	0.5000	0.3746	
	2 N-Nitrosodimethylamine	74	1.877	1.877	0.000	90	47452	0.5000	0.2339	
	3 Bis(2-chloroethyl)ether	93	4.106	4.106	0.000	92	110444	0.5000	0.3269	
*	4 1,4-Dichlorobenzene-d4	152	4.368	4.368	0.000	84	58934	0.2500	0.2500	
*	5 Naphthalene-d8	136	5.568	5.568	0.000	91	193112	0.2500	0.2500	
	6 Naphthalene	128	5.593	5.593	0.000	92	432795	0.5000	0.4484	
	7 Quinoline	129	5.918	5.918	0.000	97	244816	0.5000	0.4312	
	8 2-Methylnaphthalene	142	6.244	6.244	0.000	99	290757	0.5000	0.4891	
$	9 1-Methylnaphthalene-d10	152	6.303	6.303	0.000	97	228884	0.5000	0.5186	
	10 1-Methylnaphthalene	142	6.342	6.342	0.000	96	274545	0.5000	0.4946	
	11 Dimethyl phthalate	163	6.992	6.992	0.000	75	1496806	2.50	2.65	
	12 Acenaphthylene	152	7.101	7.101	0.000	97	418207	0.5000	0.4562	
*	13 Acenaphthene-d10	164	7.238	7.238	0.000	85	113501	0.2500	0.2500	
	14 Acenaphthene	154	7.268	7.268	0.000	87	269521	0.5000	0.4737	
	15 Dibenzofuran	168	7.435	7.435	0.000	83	432061	0.5000	0.5000	
	16 Diethyl phthalate	149	7.711	7.711	0.000	96	4559	2.50	0.008431	
	17 Fluorene	166	7.758	7.758	0.000	98	348904	0.5000	0.5214	
	18 N-Nitrosodiphenylamine	169	7.875	7.875	0.000	100	208808	0.5000	0.4970	
	19 Hexachlorobenzene	284	8.273	8.273	0.000	87	141320	0.5000	0.6927	
*	20 Phenanthrene-d10	188	8.648	8.648	0.000	94	215573	0.2500	0.2500	
	21 Phenanthrene	178	8.663	8.663	0.000	100	505681	0.5000	0.4891	
	22 Anthracene	178	8.718	8.718	0.000	100	474187	0.5000	0.4918	
	23 Di-n-butyl phthalate	149	9.218	9.218	0.000	98	2021820	2.50	2.55	
$	24 Fluoranthene-d10 (Surr)	212	9.780	9.780	0.000	97	500389	0.5000	0.5510	
	25 Fluoranthene	202	9.799	9.799	0.000	99	598477	0.5000	0.5344	
	26 Pyrene	202	10.012	10.012	0.000	97	623717	0.5000	0.4477	
	27 Butyl benzyl phthalate	149	10.676	10.676	0.000	98	849973	2.50	2.65	
	28 Benzo[a]anthracene	228	11.253	11.253	0.000	100	518683	0.5000	0.4647	
*	29 Chrysene-d12	240	11.268	11.268	0.000	76	212843	0.2500	0.2500	
	30 Chrysene	228	11.299	11.299	0.000	100	609251	0.5000	0.4884	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	11.329	11.329	0.000	100	1149851	2.50	2.41	
32 Di-n-octyl phthalate	149	12.165	12.165	0.000	100	1593353	2.50	2.28	
33 Benzo[b]fluoranthene	252	12.618	12.618	0.000	100	512130	0.5000	0.4900	
34 Benzo[k]fluoranthene	252	12.656	12.656	0.000	100	577225	0.5000	0.5174	
35 Benzo[e]pyrene	252	12.994	12.994	0.000	100	508923	0.5000	0.5047	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.032	13.032	0.000	99	350703	0.5000	0.4930	
37 Benzo[a]pyrene	252	13.063	13.063	0.000	100	461963	0.5000	0.4846	
* 38 Perylene-d12	264	13.147	13.147	0.000	98	192413	0.2500	0.2500	
39 Perylene	252	13.178	13.178	0.000	100	478771	0.5000	0.4590	
40 Indeno[1,2,3-cd]pyrene	276	14.689	14.689	0.000	98	265005	0.5000	0.3271	M
41 Dibenz(a,h)anthracene	278	14.731	14.731	0.000	96	275685	0.5000	0.2930	
42 Benzo[g,h,i]perylene	276	15.106	15.106	0.000	95	345009	0.5000	0.3322	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_4_00025 Amount Added: 1.00 Units: mL

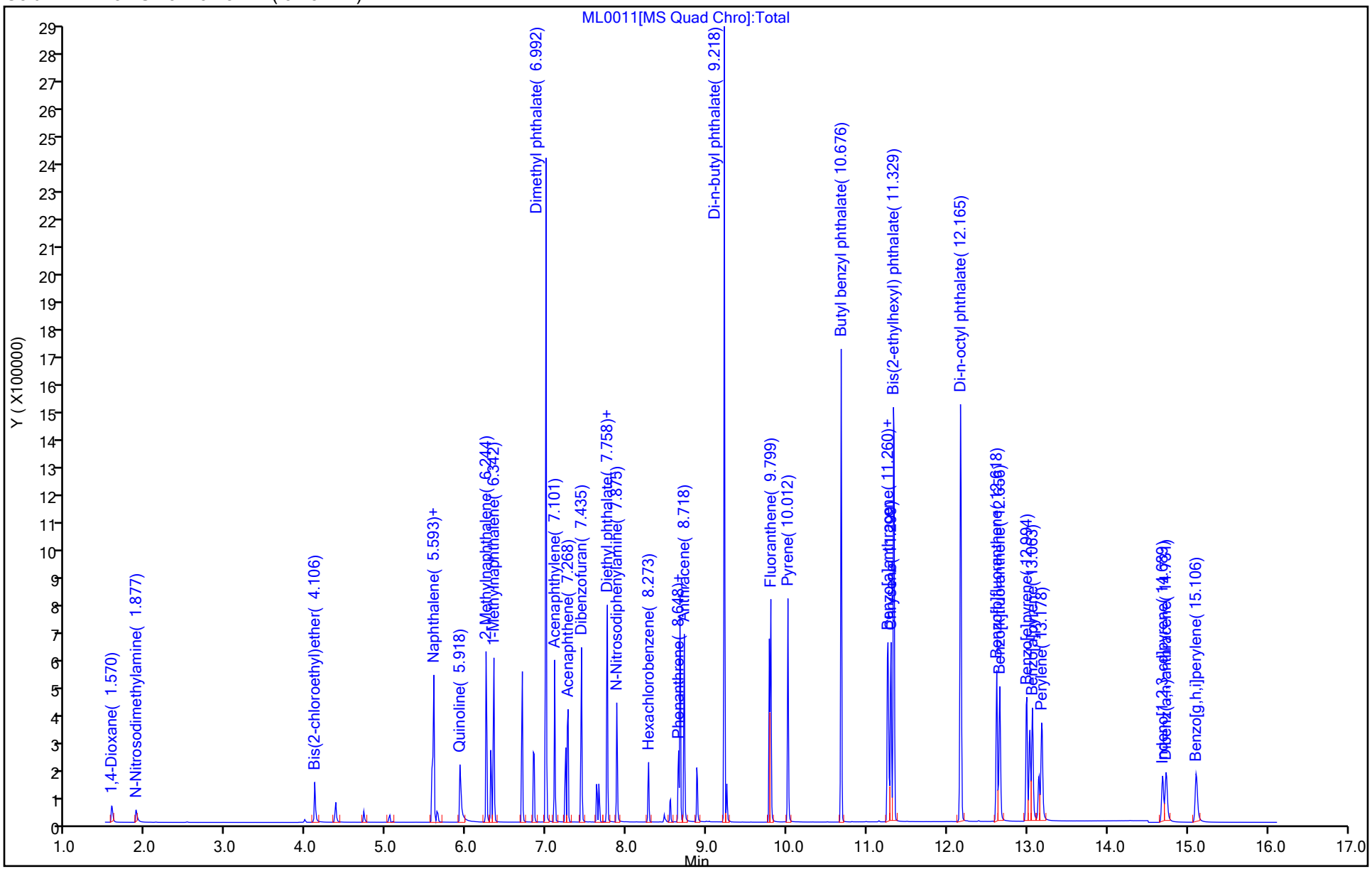
Report Date: 01-Dec-2022 06:13:50 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20221201-72264.b\ML0011.D

Injection Date:	01-Dec-2022 05:47:13	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	CCVIS			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

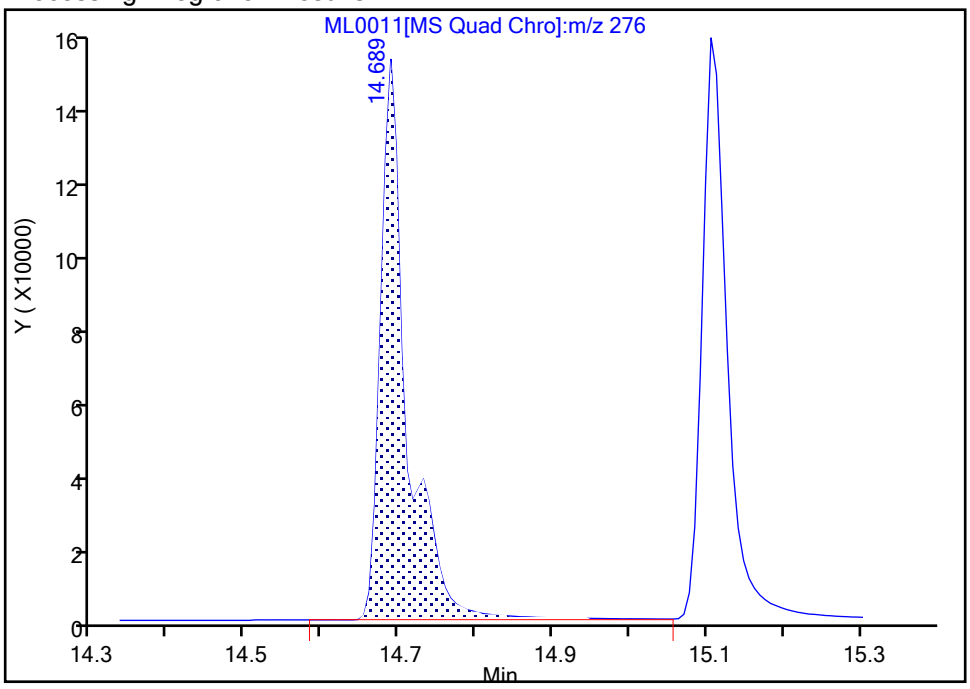
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20221201-72264.b\ML0011.D				
Injection Date:	01-Dec-2022 05:47:13	Instrument ID:	HP21585		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

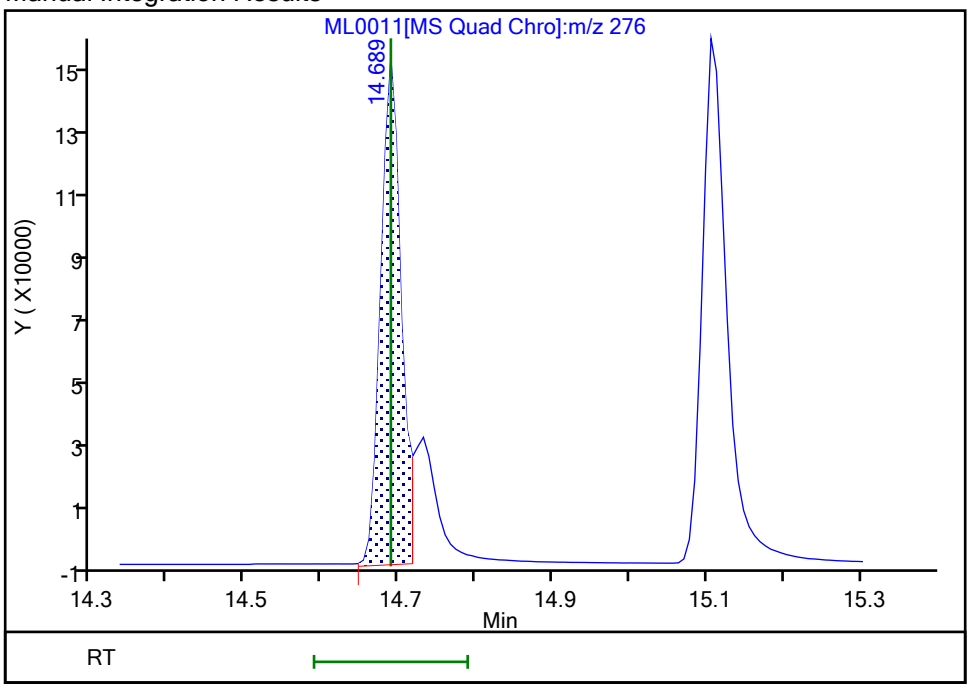
Processing Integration Results

RT: 14.69
Area: 352402
Amount: 0.434938
Amount Units: ug/ml



Manual Integration Results

RT: 14.69
Area: 265005
Amount: 0.327072
Amount Units: ug/ml



Reviewer: UJM0, 01-Dec-2022 06:09:30

Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-106360-1

SDG No.:

Lab Sample ID: ICV 410-303206/9 Calibration Date: 10/05/2022 12:25

Instrument ID: HP23263 Calib Start Date: 10/05/2022 09:51

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 10/05/2022 11:42

Lab File ID: NJ0028.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.5931	0.5680		0.958	1.00	-4.2	30.0
N-Nitrosodimethylamine	Ave	0.6733	0.9004		1.34	1.00	33.7*	30.0
Bis(2-chloroethyl)ether	Ave	0.3544	0.4179		1.18	1.00	17.9	30.0
Naphthalene	Ave	1.013	1.052		1.04	1.00	3.9	30.0
2-Methylnaphthalene	Ave	0.6445	0.5953		0.924	1.00	-7.6	30.0
1-Methylnaphthalene	Ave	0.5764	0.5941		1.03	1.00	3.1	30.0
Dimethylphthalate	Ave	1.160	1.363		1.17	1.00	17.5	30.0
Acenaphthylene	Ave	2.089	1.977		0.946	1.00	-5.4	30.0
Acenaphthene	Ave	1.256	1.253		0.998	1.00	-0.2	30.0
Dibenzofuran	Ave	1.891	1.823		0.964	1.00	-3.6	30.0
Diethylphthalate	Ave	1.091	1.233		1.13	1.00	13.0	30.0
Fluorene	Ave	1.386	1.339		0.966	1.00	-3.4	30.0
N-Nitrosodiphenylamine	Ave	0.4900	0.6702		1.16	0.850	36.8*	30.0
Hexachlorobenzene	Ave	0.2716	0.2662		0.980	1.00	-2.0	30.0
Phenanthrene	Ave	1.185	1.160		0.979	1.00	-2.1	30.0
Anthracene	Ave	1.097	1.102		1.00	1.00	0.4	30.0
Di-n-butyl phthalate	Ave	0.8678	1.009		1.16	1.00	16.3	30.0
Fluoranthene	Ave	1.097	1.055		0.962	1.00	-3.8	30.0
Pyrene	Ave	1.867	1.831		0.981	1.00	-1.9	30.0
Butylbenzylphthalate	Ave	0.4763	0.5514		1.16	1.00	15.8	30.0
Benzo[a]anthracene	Ave	1.361	1.358		0.998	1.00	-0.2	30.0
Chrysene	Ave	1.416	1.381		0.975	1.00	-2.5	30.0
Bis(2-ethylhexyl) phthalate	Ave	0.5651	0.6589		1.17	1.00	16.6	30.0
Di-n-octyl phthalate	Ave	0.9920	1.148		1.16	1.00	15.7	30.0
Benzo[b]fluoranthene	Ave	1.443	1.531		1.06	1.00	6.2	30.0
Benzo[k]fluoranthene	Ave	1.586	1.597		1.01	1.00	0.7	30.0
Benzo[e]pyrene	Ave	1.415	1.444		1.10	1.08	2.1	30.0
Benzo[a]pyrene	Ave	1.293	1.333		1.03	1.00	3.1	30.0
Perylene	Ave	1.316	1.671		1.27	1.00	27.0	30.0
Indeno[1,2,3-cd]pyrene	Ave	1.026	1.078		1.05	1.00	5.1	30.0
Dibenz(a,h)anthracene	Ave	1.091	1.129		1.04	1.00	3.5	30.0
Benzo[g,h,i]perylene	Ave	1.263	1.251		0.991	1.00	-0.9	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0028.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 05-Oct-2022 12:25:30 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: 410-0067959-009
Operator ID: jmg00346 Instrument ID: HP23263
Sublist:

Method: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 05-Oct-2022 16:17:53 Calib Date: 05-Oct-2022 11:42:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0026.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1660

First Level Reviewer: SJ89 Date: 05-Oct-2022 16:01:45

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	1.946	1.858	0.088	94	69969	1.00	0.9576	a
	2 N-Nitrosodimethylamine	74	2.218	2.161	0.057	90	110917	1.00	1.34	
	3 Bis(2-chloroethyl)ether	93	4.368	4.368	0.000	86	174306	1.00	1.18	M
*	4 1,4-Dichlorobenzene-d4	152	4.631	4.631	0.000	94	30798	0.2500	0.2500	
*	5 Naphthalene-d8	136	5.818	5.818	0.000	100	104279	0.2500	0.2500	M
	6 Naphthalene	128	5.830	5.830	0.000	100	438829	1.00	1.04	
	8 2-Methylnaphthalene	142	6.485	6.488	-0.003	99	248308	1.00	0.9236	
	10 1-Methylnaphthalene	142	6.575	6.578	-0.003	96	247826	1.00	1.03	
	11 Dimethyl phthalate	163	7.216	7.219	-0.003	99	254572	1.00	1.17	
	12 Acenaphthylene	152	7.347	7.339	0.008	97	369168	1.00	0.9460	
*	13 Acenaphthene-d10	164	7.477	7.479	-0.002	90	46689	0.2500	0.2500	
	14 Acenaphthene	154	7.507	7.509	-0.002	97	234017	1.00	1.00	
	15 Dibenzofuran	168	7.673	7.675	-0.002	97	340484	1.00	0.9643	
	16 Diethyl phthalate	149	7.889	7.891	-0.002	100	230294	1.00	1.13	
	17 Fluorene	166	7.997	7.999	-0.002	99	250103	1.00	0.9664	
	18 N-Nitrosodiphenylamine	169	8.113	8.108	0.005	95	168500	0.8500	1.16	
	19 Hexachlorobenzene	284	8.514	8.517	-0.003	88	78736	1.00	0.9801	
*	20 Phenanthrene-d10	188	8.893	8.888	0.005	100	73944	0.2500	0.2500	
	21 Phenanthrene	178	8.908	8.911	-0.003	100	343167	1.00	0.9794	
	22 Anthracene	178	8.962	8.957	0.005	100	325798	1.00	1.00	
	23 Di-n-butyl phthalate	149	9.454	9.450	0.004	100	298549	1.00	1.16	
	25 Fluoranthene	202	10.043	10.046	-0.003	95	311969	1.00	0.9616	
	26 Pyrene	202	10.263	10.265	-0.002	97	315480	1.00	0.9806	
	27 Butyl benzyl phthalate	149	10.945	10.949	-0.004	100	95016	1.00	1.16	
	28 Benzo[a]anthracene	228	11.574	11.571	0.003	99	234012	1.00	1.00	
*	29 Chrysene-d12	240	11.582	11.586	-0.004	51	43078	0.2500	0.2500	
	30 Chrysene	228	11.613	11.617	-0.004	100	237988	1.00	0.9752	
	31 Bis(2-ethylhexyl) phthalate	149	11.643	11.647	-0.004	98	113535	1.00	1.17	
	32 Di-n-octyl phthalate	149	12.548	12.545	0.003	100	162307	1.00	1.16	
	33 Benzo[b]fluoranthene	252	13.024	13.028	-0.004	100	216515	1.00	1.06	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
34 Benzo[k]fluoranthene	252	13.070	13.066	0.004	100	225788	1.00	1.01	
35 Benzo[e]pyrene	252	13.423	13.419	0.004	100	220041	1.08	1.10	a
37 Benzo[a]pyrene	252	13.499	13.496	0.003	100	188469	1.00	1.03	
* 38 Perylene-d12	264	13.584	13.588	-0.004	96	35344	0.2500	0.2500	
39 Perylene	252	13.622	13.618	0.004	100	236295	1.00	1.27	
40 Indeno[1,2,3-cd]pyrene	276	15.277	15.273	0.004	97	152396	1.00	1.05	
41 Dibenz(a,h)anthracene	278	15.334	15.337	-0.003	98	159652	1.00	1.04	
42 Benzo[g,h,i]perylene	276	15.757	15.761	-0.004	99	176855	1.00	0.99	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

SIMLCS_MS_icv_00001	Amount Added: 1.00	Units: mL	
MSS_RVSIM_IS_00032	Amount Added: 10.00	Units: uL	Run Reagent

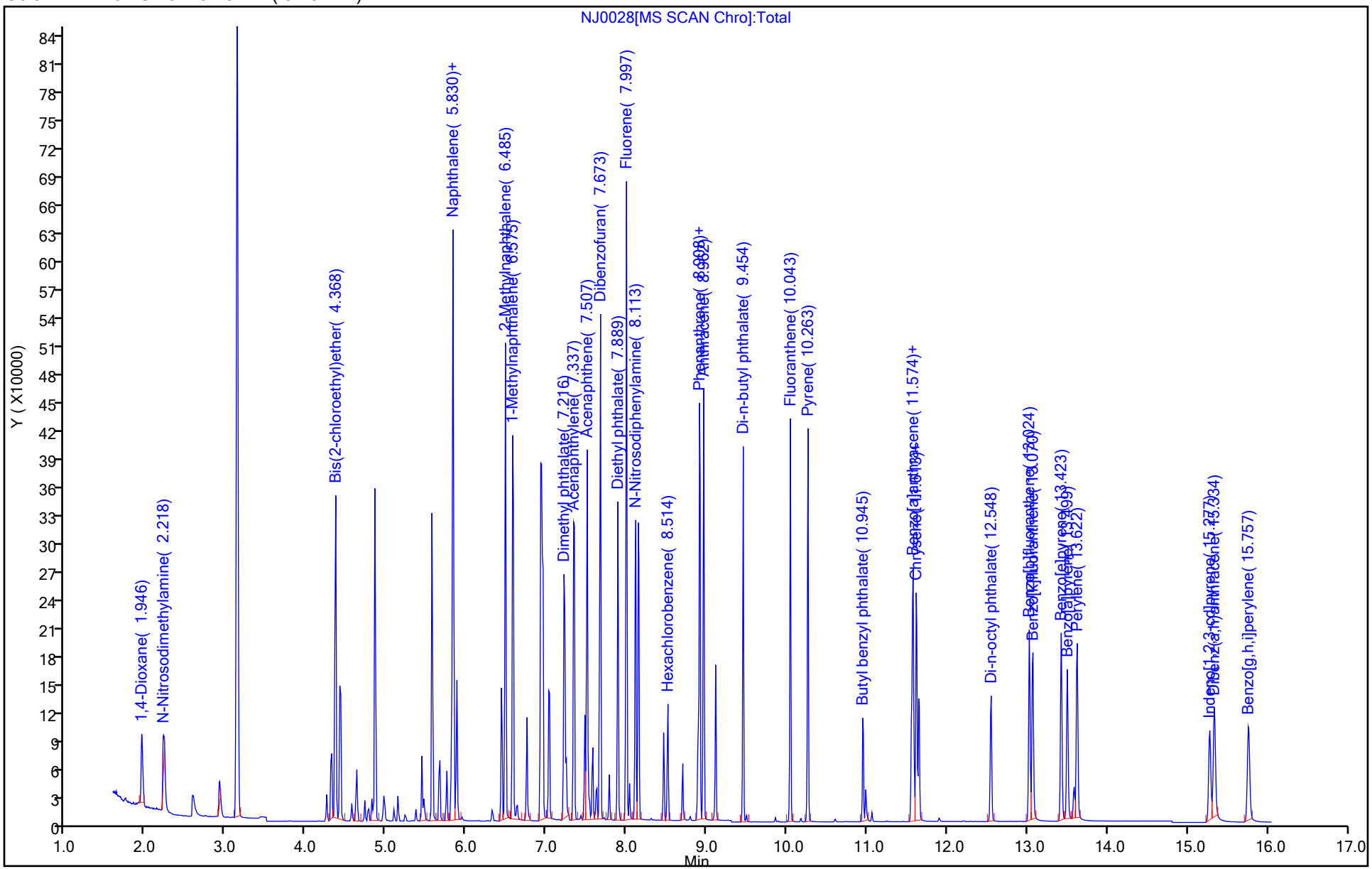
Report Date: 05-Oct-2022 16:18:38 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0028.D

Injection Date:	05-Oct-2022 12:25:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	ICV			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

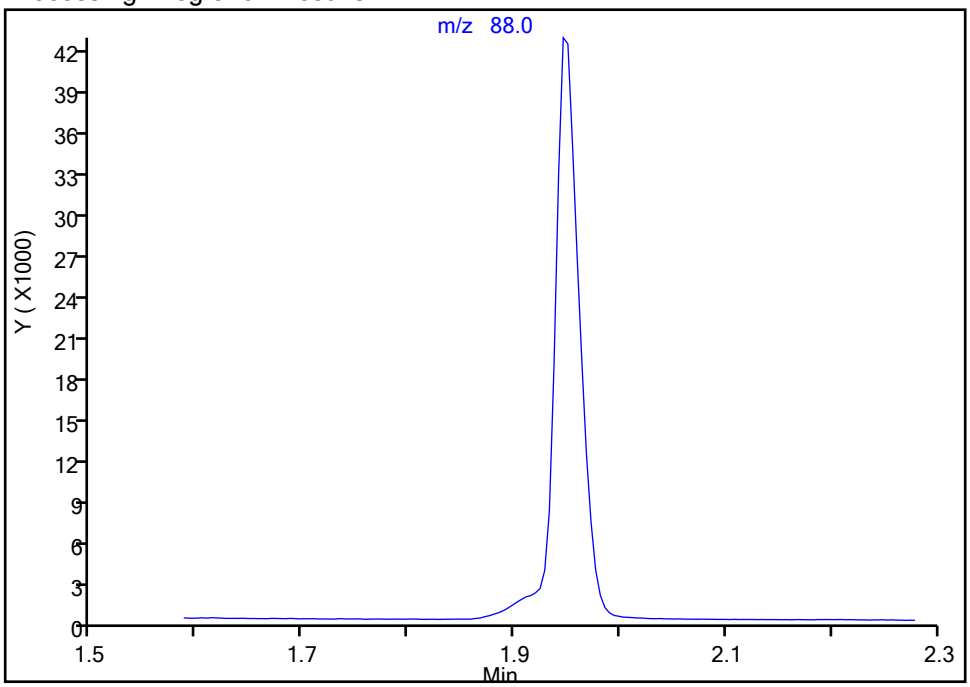
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0028.D				
Injection Date:	05-Oct-2022 12:25:30	Instrument ID:	HP23263		
Lims ID:	ICV				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

1 1,4-Dioxane, CAS: 123-91-1

Signal: 1

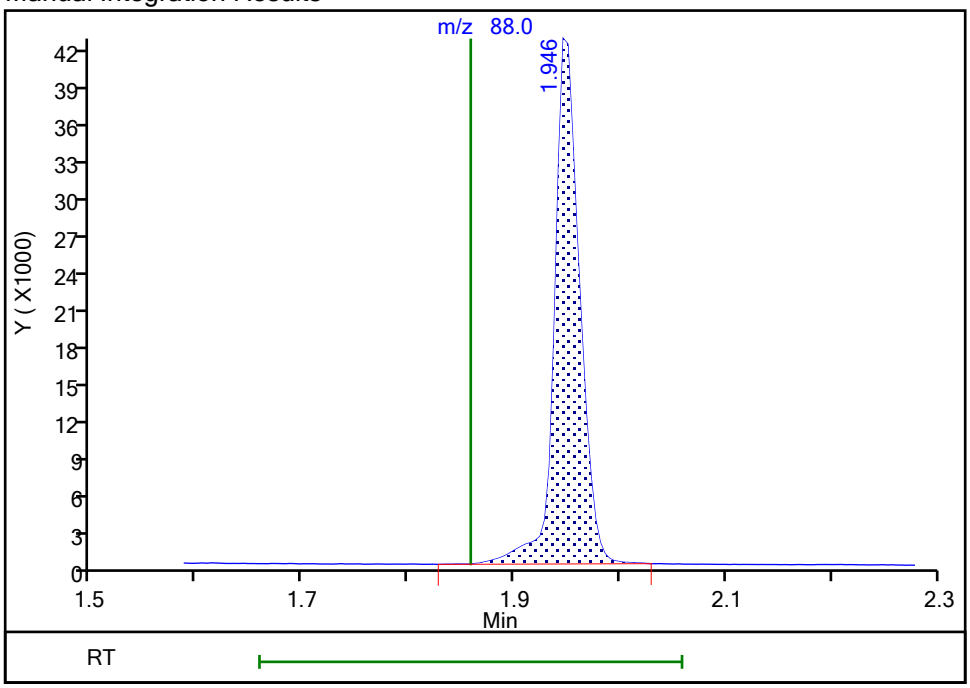
Not Detected
Expected RT: 1.86

Processing Integration Results



Manual Integration Results

RT: 1.95
Area: 69969
Amount: 0.957575
Amount Units: ug/ml



Reviewer: SJ89, 05-Oct-2022 16:01:17
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

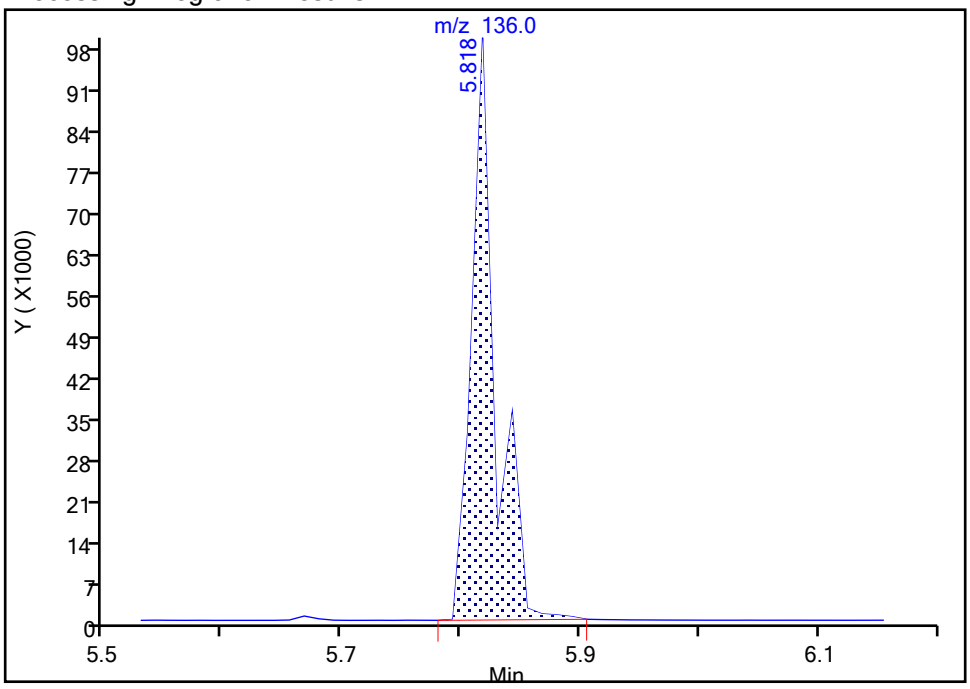
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0028.D				
Injection Date:	05-Oct-2022 12:25:30	Instrument ID:	HP23263		
Lims ID:	ICV				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

* 5 Naphthalene-d8, CAS: 1146-65-2

Signal: 1

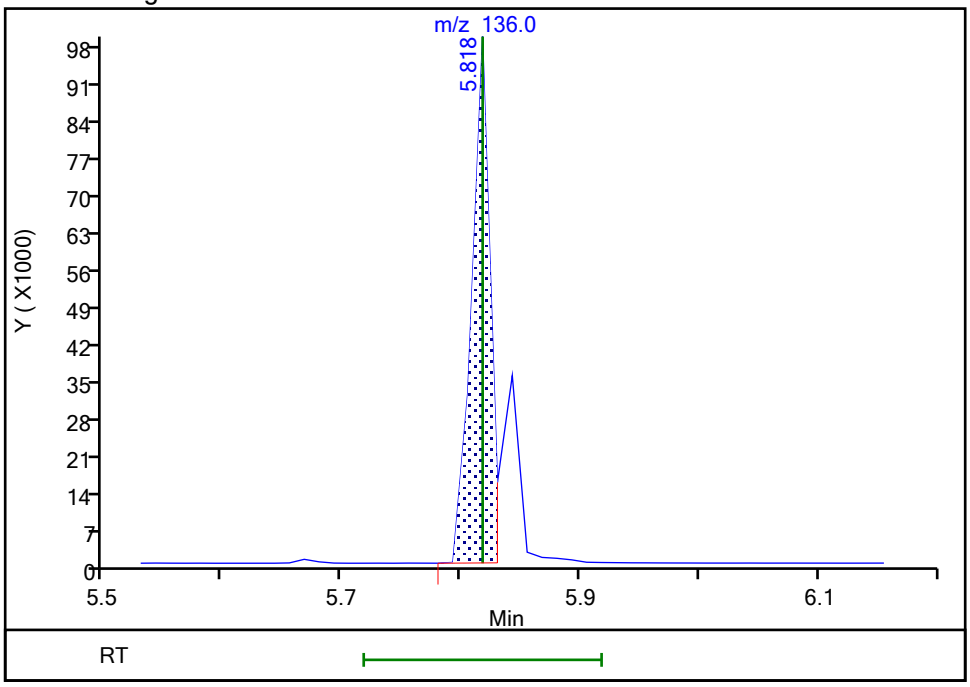
Processing Integration Results

RT: 5.82
Area: 139615
Amount: 0.250000
Amount Units: ug/ml



Manual Integration Results

RT: 5.82
Area: 104279
Amount: 0.250000
Amount Units: ug/ml



Reviewer: SJ89, 05-Oct-2022 16:00:27

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

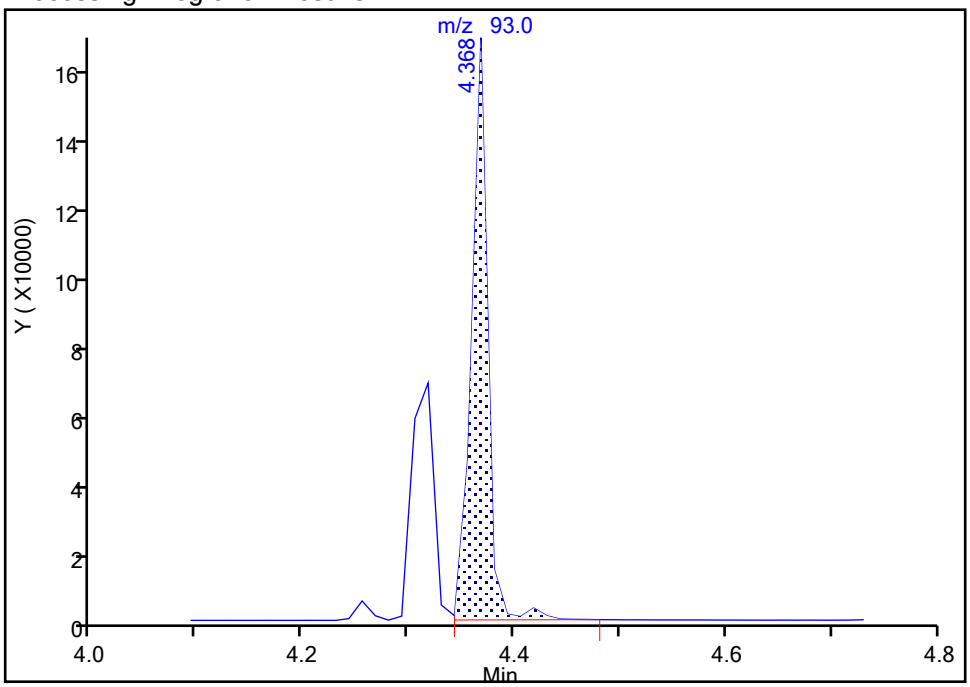
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0028.D				
Injection Date:	05-Oct-2022 12:25:30	Instrument ID:	HP23263		
Lims ID:	ICV				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

3 Bis(2-chloroethyl)ether, CAS: 111-44-4

Signal: 1

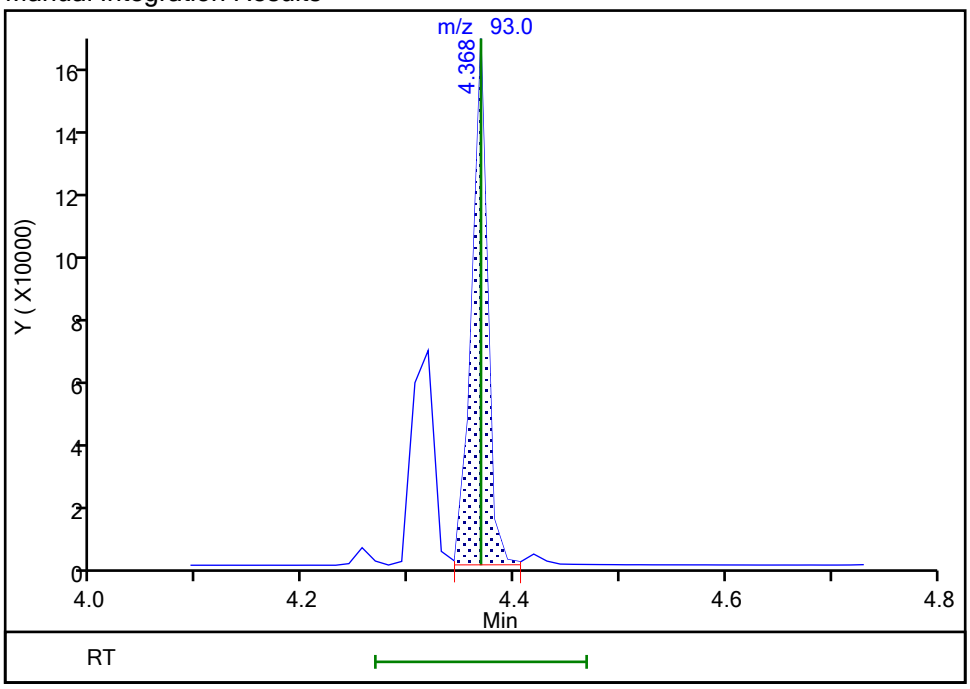
Processing Integration Results

RT: 4.37
Area: 178326
Amount: 1.206361
Amount Units: ug/ml



Manual Integration Results

RT: 4.37
Area: 174306
Amount: 1.179166
Amount Units: ug/ml



Reviewer: SJ89, 05-Oct-2022 16:14:54
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

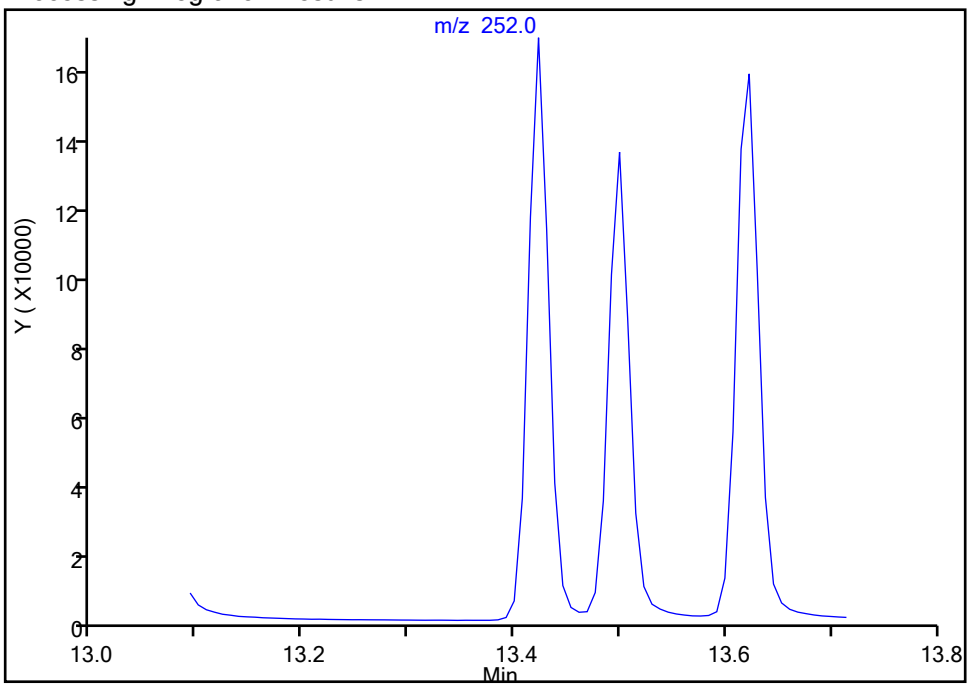
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0028.D				
Injection Date:	05-Oct-2022 12:25:30	Instrument ID:	HP23263		
Lims ID:	ICV				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

35 Benzo[e]pyrene, CAS: 192-97-2

Signal: 1

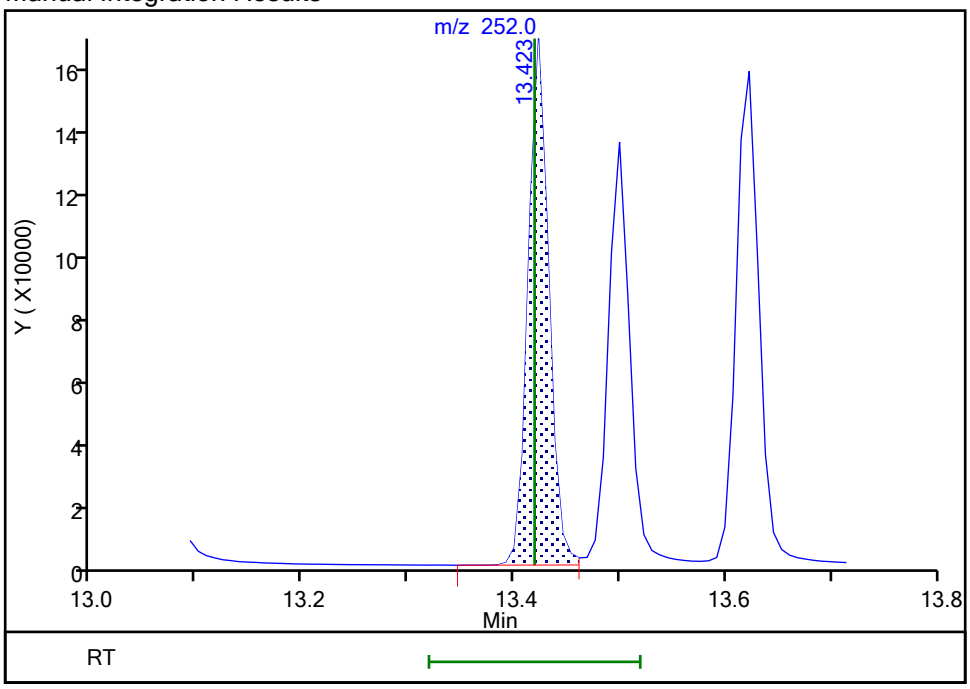
Not Detected
Expected RT: 13.42

Processing Integration Results



Manual Integration Results

RT: 13.42
Area: 220041
Amount: 1.100306
Amount Units: ug/ml



Reviewer: SJ89, 05-Oct-2022 16:06:02
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-106360-1

SDG No.:

Lab Sample ID: CCVIS 410-321961/2 Calibration Date: 11/30/2022 05:33

Instrument ID: HP23263 Calib Start Date: 10/05/2022 09:51

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 10/05/2022 11:42

Lab File ID: NK1401.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.5931	0.5808		0.490	0.500	-2.1	20.0
N-Nitrosodimethylamine	Ave	0.6733	0.7098		0.527	0.500	5.4	20.0
Bis(2-chloroethyl)ether	Ave	0.3544	0.3605		0.509	0.500	1.7	20.0
Naphthalene	Ave	1.013	1.035		0.511	0.500	2.2	20.0
Quinoline	Ave	0.6401	0.5470		0.427	0.500	-14.5	20.0
2-Methylnaphthalene	Ave	0.6445	0.6496		0.504	0.500	0.8	20.0
1-Methylnaphthalene	Ave	0.5764	0.5673		0.492	0.500	-1.6	20.0
Dimethylphthalate	Ave	1.160	1.055		2.27	2.50	-9.1	20.0
Acenaphthylene	Ave	2.089	1.988		0.476	0.500	-4.9	20.0
Acenaphthene	Ave	1.256	1.196		0.476	0.500	-4.7	20.0
Dibenzofuran	Ave	1.891	1.802		0.476	0.500	-4.7	20.0
Diethylphthalate	Ave	1.091	0.9497		2.18	2.50	-13.0	20.0
Fluorene	Ave	1.386	1.284		0.463	0.500	-7.3	20.0
N-Nitrosodiphenylamine	Ave	0.4900	0.4747		0.484	0.500	-3.1	20.0
Hexachlorobenzene	Ave	0.2716	0.2850		0.525	0.500	4.9	20.0
Phenanthrene	Ave	1.185	1.175		0.496	0.500	-0.8	20.0
Anthracene	Ave	1.097	1.036		0.472	0.500	-5.5	20.0
Di-n-butyl phthalate	Ave	0.8678	0.8365		2.41	2.50	-3.6	20.0
Fluoranthene	Ave	1.097	0.9831		0.448	0.500	-10.4	20.0
Pyrene	Ave	1.867	1.882		0.504	0.500	0.8	20.0
Butylbenzylphthalate	Ave	0.4763	0.6004		3.15	2.50	26.1*	20.0
Benzo[a]anthracene	Ave	1.361	1.352		0.496	0.500	-0.7	20.0
Chrysene	Ave	1.416	1.506		0.532	0.500	6.3	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.5651	0.7400		3.27	2.50	30.9*	20.0
Di-n-octyl phthalate	Ave	0.9920	1.162		2.93	2.50	17.1	20.0
Benzo[b]fluoranthene	Ave	1.443	1.302		0.451	0.500	-9.7	20.0
Benzo[k]fluoranthene	Ave	1.586	1.487		0.469	0.500	-6.2	20.0
Benzo[e]pyrene	Ave	1.415	1.330		0.470	0.500	-6.0	20.0
Benzo[a]pyrene	Ave	1.293	1.282		0.496	0.500	-0.8	20.0
Perylene	Ave	1.316	1.327		0.504	0.500	0.8	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.026	0.9342		0.455	0.500	-9.0	20.0
Dibenz(a,h)anthracene	Ave	1.091	1.043		0.478	0.500	-4.4	20.0
Benzo[g,h,i]perylene	Ave	1.263	1.218		0.482	0.500	-3.5	20.0
1-Methylnaphthalene-d10 (Surr)	Ave	0.4599	0.4695		0.511	0.500	2.1	20.0
Fluoranthene-d10 (Surr)	Ave	0.9114	0.8255		0.453	0.500	-9.4	20.0
Benzo(a)pyrene-d12 (Surr)	Ave	0.9598	0.9171		0.478	0.500	-4.4	20.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1401.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 30-Nov-2022 05:33:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 410-0072166-002
Operator ID: jmg00346 Instrument ID: HP23263
Sublist: chrom-8270_SIM_HP23263*sub3

Method: \\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 30-Nov-2022 09:37:54 Calib Date: 05-Oct-2022 11:42:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0026.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1608

First Level Reviewer: UJM0 Date: 30-Nov-2022 07:35:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.666	1.666	0.000	97	54649	0.5000	0.4896	
2 N-Nitrosodimethylamine	74	1.985	1.985	0.000	91	66782	0.5000	0.5271	
3 Bis(2-chloroethyl)ether	93	4.293	4.293	0.000	89	117396	0.5000	0.5086	
* 4 1,4-Dichlorobenzene-d4	152	4.568	4.568	0.000	93	47043	0.2500	0.2500	
* 5 Naphthalene-d8	136	5.768	5.768	0.000	100	162817	0.2500	0.2500	
6 Naphthalene	128	5.793	5.793	0.000	99	337180	0.5000	0.5112	
7 Quinoline	129	6.105	6.105	0.000	93	178121	0.5000	0.4273	
8 2-Methylnaphthalene	142	6.448	6.448	0.000	99	211548	0.5000	0.5040	
$ 9 1-Methylnaphthalene-d10	152	6.508	6.508	0.000	99	152900	0.5000	0.5105	
10 1-Methylnaphthalene	142	6.538	6.538	0.000	95	184720	0.5000	0.4921	
11 Dimethyl phthalate	163	7.189	7.189	0.000	98	712220	2.50	2.27	
12 Acenaphthylene	152	7.309	7.309	0.000	97	268321	0.5000	0.4756	
* 13 Acenaphthene-d10	164	7.439	7.439	0.000	93	67497	0.2500	0.2500	
14 Acenaphthene	154	7.469	7.469	0.000	95	161514	0.5000	0.4763	
15 Dibenzofuran	168	7.640	7.640	0.000	68	243193	0.5000	0.4764	
16 Diethyl phthalate	149	7.860	7.860	0.000	97	640987	2.50	2.18	
17 Fluorene	166	7.961	7.961	0.000	100	173352	0.5000	0.4633	
18 N-Nitrosodiphenylamine	169	8.077	8.077	0.000	99	89490	0.5000	0.4844	
19 Hexachlorobenzene	284	8.478	8.478	0.000	91	53733	0.5000	0.5247	
* 20 Phenanthrene-d10	188	8.849	8.849	0.000	99	94259	0.2500	0.2500	
21 Phenanthrene	178	8.872	8.872	0.000	100	221466	0.5000	0.4959	
22 Anthracene	178	8.926	8.926	0.000	100	195362	0.5000	0.4723	
23 Di-n-butyl phthalate	149	9.419	9.419	0.000	100	788479	2.50	2.41	
$ 24 Fluoranthene-d10 (Surr)	212	9.989	9.989	0.000	97	155617	0.5000	0.4529	
25 Fluoranthene	202	10.008	10.008	0.000	97	185340	0.5000	0.4482	
26 Pyrene	202	10.221	10.221	0.000	97	190579	0.5000	0.5040	
27 Butyl benzyl phthalate	149	10.895	10.895	0.000	100	303966	2.50	3.15	
28 Benzo[a]anthracene	228	11.501	11.501	0.000	82	136852	0.5000	0.4964	
* 29 Chrysene-d12	240	11.517	11.517	0.000	95	50627	0.2500	0.2500	
30 Chrysene	228	11.547	11.547	0.000	100	152467	0.5000	0.5316	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	11.578	11.578	0.000	99	374650	2.50	3.27	
32 Di-n-octyl phthalate	149	12.452	12.452	0.000	100	617955	2.50	2.93	
33 Benzo[b]fluoranthene	252	12.928	12.928	0.000	100	138495	0.5000	0.4513	
34 Benzo[k]fluoranthene	252	12.974	12.974	0.000	100	158151	0.5000	0.4688	
35 Benzo[e]pyrene	252	13.319	13.319	0.000	100	141420	0.5000	0.4700	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.365	13.365	0.000	97	97547	0.5000	0.4778	
37 Benzo[a]pyrene	252	13.396	13.396	0.000	100	136403	0.5000	0.4961	
* 38 Perylene-d12	264	13.480	13.480	0.000	97	53181	0.2500	0.2500	
39 Perylene	252	13.518	13.518	0.000	99	141137	0.5000	0.5042	
40 Indeno[1,2,3-cd]pyrene	276	15.111	15.111	0.000	97	99361	0.5000	0.4552	
41 Dibenz(a,h)anthracene	278	15.167	15.167	0.000	97	110925	0.5000	0.4781	
42 Benzo[g,h,i]perylene	276	15.570	15.570	0.000	99	129587	0.5000	0.4824	

QC Flag Legend

Processing Flags

Reagents:

MSS_RVSIM_4_00025 Amount Added: 1.00 Units: mL

Report Date: 30-Nov-2022 09:37:54 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1401.D

Injection Date: 30-Nov-2022 05:33:30 Instrument ID: HP23263 Operator ID: jmg00346

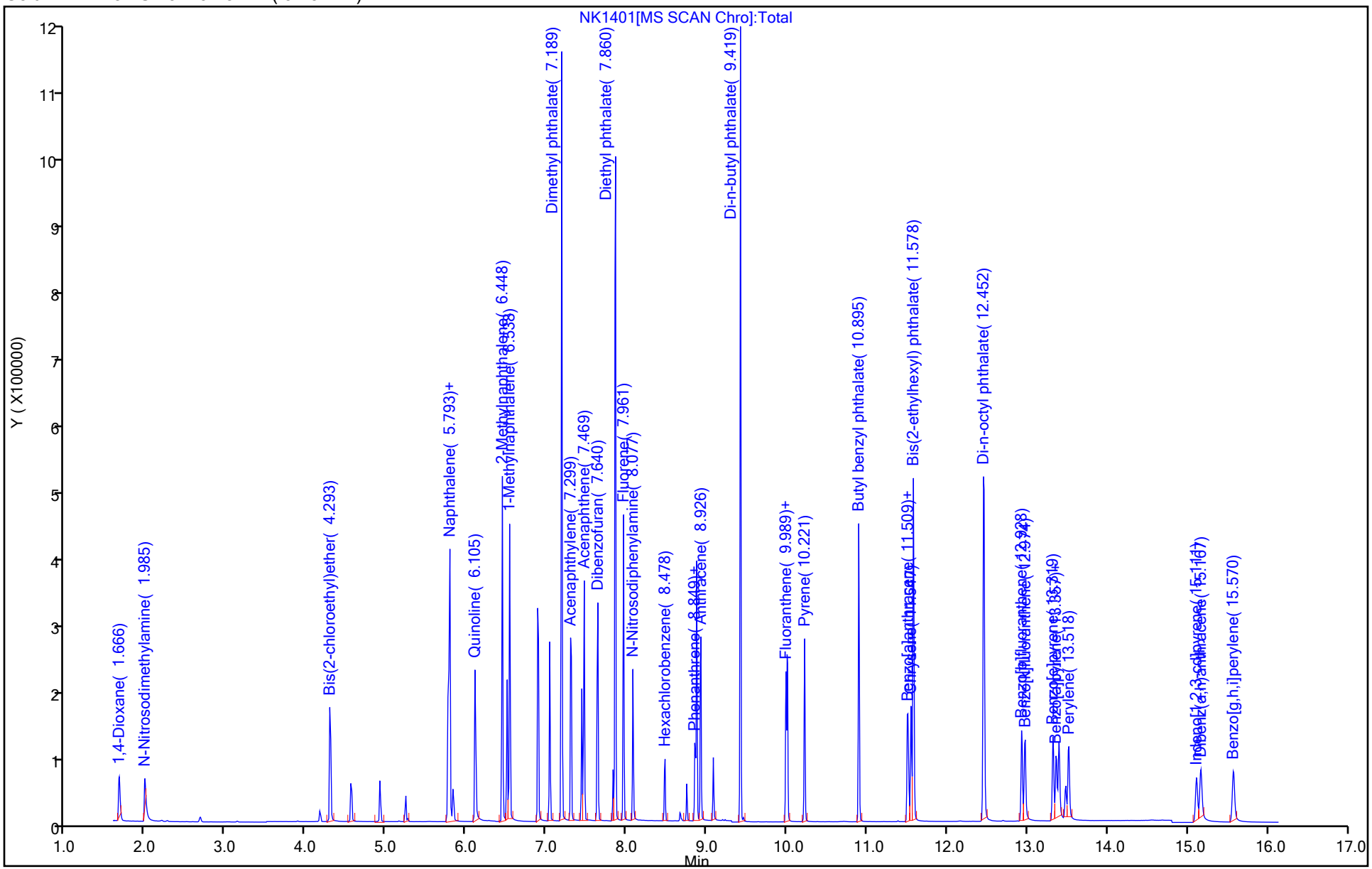
Lims ID: CCVIS Worklist Smp#: 2

Client ID:

Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 2

Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

Column: DB-5MS 20m 0.25mm (0.25 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-106360-1

SDG No.:

Lab Sample ID: CCVIS 410-323522/2 Calibration Date: 12/05/2022 05:19

Instrument ID: HP23263 Calib Start Date: 10/05/2022 09:51

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 10/05/2022 11:42

Lab File ID: NL0161.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.5931	0.5582		0.471	0.500	-5.9	20.0
N-Nitrosodimethylamine	Ave	0.6733	0.6743		0.501	0.500	0.2	20.0
Bis(2-chloroethyl)ether	Ave	0.3544	0.3419		0.482	0.500	-3.5	20.0
Naphthalene	Ave	1.013	0.8954		0.442	0.500	-11.6	20.0
Quinoline	Ave	0.6401	0.5750		0.449	0.500	-10.2	20.0
2-Methylnaphthalene	Ave	0.6445	0.5751		0.446	0.500	-10.8	20.0
1-Methylnaphthalene	Ave	0.5764	0.5139		0.446	0.500	-10.8	20.0
Dimethylphthalate	Ave	1.160	1.088		2.34	2.50	-6.2	20.0
Acenaphthylene	Ave	2.089	2.047		0.490	0.500	-2.1	20.0
Acenaphthene	Ave	1.256	1.211		0.482	0.500	-3.6	20.0
Dibenzofuran	Ave	1.891	1.853		0.490	0.500	-2.0	20.0
Diethylphthalate	Ave	1.091	0.9782		2.24	2.50	-10.4	20.0
Fluorene	Ave	1.386	1.351		0.487	0.500	-2.5	20.0
N-Nitrosodiphenylamine	Ave	0.4900	0.4695		0.479	0.500	-4.2	20.0
Hexachlorobenzene	Ave	0.2716	0.2650		0.488	0.500	-2.4	20.0
Phenanthrene	Ave	1.185	1.118		0.472	0.500	-5.6	20.0
Anthracene	Ave	1.097	1.078		0.491	0.500	-1.8	20.0
Di-n-butyl phthalate	Ave	0.8678	0.7376		2.12	2.50	-15.0	20.0
Fluoranthene	Ave	1.097	0.9710		0.443	0.500	-11.5	20.0
Pyrene	Ave	1.867	2.052		0.550	0.500	9.9	20.0
Butylbenzylphthalate	Ave	0.4763	0.4954		2.60	2.50	4.0	20.0
Benzo[a]anthracene	Ave	1.361	1.422		0.522	0.500	4.4	20.0
Chrysene	Ave	1.416	1.467		0.518	0.500	3.6	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.5651	0.5672		2.51	2.50	0.4	20.0
Di-n-octyl phthalate	Ave	0.9920	0.9770		2.46	2.50	-1.5	20.0
Benzo[b]fluoranthene	Ave	1.443	1.326		0.460	0.500	-8.1	20.0
Benzo[k]fluoranthene	Ave	1.586	1.549		0.488	0.500	-2.3	20.0
Benzo[e]pyrene	Ave	1.415	1.332		0.471	0.500	-5.8	20.0
Benzo[a]pyrene	Ave	1.293	1.274		0.493	0.500	-1.5	20.0
Perylene	Ave	1.316	1.287		0.489	0.500	-2.2	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.026	0.9011		0.439	0.500	-12.2	20.0
Dibenz(a,h)anthracene	Ave	1.091	1.005		0.461	0.500	-7.9	20.0
Benzo[g,h,i]perylene	Ave	1.263	1.219		0.483	0.500	-3.5	20.0
1-Methylnaphthalene-d10 (Surr)	Ave	0.4599	0.4179		0.454	0.500	-9.1	20.0
Fluoranthene-d10 (Surr)	Ave	0.9114	0.8181		0.449	0.500	-10.2	20.0
Benzo(a)pyrene-d12 (Surr)	Ave	0.9598	0.9088		0.473	0.500	-5.3	20.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\NL0161.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 05-Dec-2022 05:19:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 410-0072499-002
Operator ID: jmg00346 Instrument ID: HP23263
Sublist: chrom-8270_SIM_HP23263*sub3

Method: \\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 05-Dec-2022 05:47:34 Calib Date: 05-Oct-2022 11:42:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0026.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1669

First Level Reviewer: UJM0 Date: 05-Dec-2022 05:47:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.657	1.657	0.000	95	53039	0.5000	0.4706	
2 N-Nitrosodimethylamine	74	1.977	1.977	0.000	90	64070	0.5000	0.5008	
3 Bis(2-chloroethyl)ether	93	4.293	4.293	0.000	95	121564	0.5000	0.4823	
* 4 1,4-Dichlorobenzene-d4	152	4.556	4.556	0.000	98	47507	0.2500	0.2500	
* 5 Naphthalene-d8	136	5.768	5.768	0.000	100	177797	0.2500	0.2500	
6 Naphthalene	128	5.780	5.780	0.000	98	318402	0.5000	0.4421	
7 Quinoline	129	6.105	6.105	0.000	99	204473	0.5000	0.4492	
8 2-Methylnaphthalene	142	6.445	6.445	0.000	97	204488	0.5000	0.4461	
$ 9 1-Methylnaphthalene-d10	152	6.505	6.505	0.000	98	148599	0.5000	0.4544	
10 1-Methylnaphthalene	142	6.536	6.536	0.000	97	182736	0.5000	0.4458	
11 Dimethyl phthalate	163	7.187	7.187	0.000	98	719679	2.50	2.34	
12 Acenaphthylene	152	7.297	7.297	0.000	99	270731	0.5000	0.4897	
* 13 Acenaphthene-d10	164	7.437	7.437	0.000	94	66140	0.2500	0.2500	
14 Acenaphthene	154	7.467	7.467	0.000	95	160154	0.5000	0.4820	
15 Dibenzofuran	168	7.637	7.637	0.000	67	245164	0.5000	0.4902	
16 Diethyl phthalate	149	7.858	7.858	0.000	97	646988	2.50	2.24	
17 Fluorene	166	7.958	7.958	0.000	100	178701	0.5000	0.4874	
18 N-Nitrosodiphenylamine	169	8.074	8.074	0.000	100	97200	0.5000	0.4791	
19 Hexachlorobenzene	284	8.476	8.476	0.000	91	54874	0.5000	0.4879	
* 20 Phenanthrene-d10	188	8.854	8.854	0.000	100	103517	0.2500	0.2500	
21 Phenanthrene	178	8.870	8.870	0.000	100	231481	0.5000	0.4719	
22 Anthracene	178	8.924	8.924	0.000	100	223139	0.5000	0.4912	
23 Di-n-butyl phthalate	149	9.416	9.416	0.000	100	763503	2.50	2.12	
$ 24 Fluoranthene-d10 (Surr)	212	9.987	9.987	0.000	99	169369	0.5000	0.4488	
25 Fluoranthene	202	10.006	10.006	0.000	98	201036	0.5000	0.4427	
26 Pyrene	202	10.219	10.219	0.000	97	211938	0.5000	0.5495	
27 Butyl benzyl phthalate	149	10.899	10.899	0.000	100	255827	2.50	2.60	
28 Benzo[a]anthracene	228	11.505	11.505	0.000	99	146825	0.5000	0.5221	
* 29 Chrysene-d12	240	11.513	11.513	0.000	76	51640	0.2500	0.2500	
30 Chrysene	228	11.544	11.544	0.000	100	151478	0.5000	0.5178	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	11.574	11.574	0.000	99	292890	2.50	2.51	
32 Di-n-octyl phthalate	149	12.456	12.456	0.000	100	471983	2.50	2.46	
33 Benzo[b]fluoranthene	252	12.924	12.924	0.000	100	128119	0.5000	0.4596	
34 Benzo[k]fluoranthene	252	12.970	12.970	0.000	100	149671	0.5000	0.4884	
35 Benzo[e]pyrene	252	13.315	13.315	0.000	100	128725	0.5000	0.4709	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.361	13.361	0.000	97	87801	0.5000	0.4734	
37 Benzo[a]pyrene	252	13.392	13.392	0.000	100	123043	0.5000	0.4926	
* 38 Perylene-d12	264	13.476	13.476	0.000	97	48308	0.2500	0.2500	
39 Perylene	252	13.515	13.515	0.000	99	124368	0.5000	0.4891	
40 Indeno[1,2,3-cd]pyrene	276	15.108	15.108	0.000	97	87061	0.5000	0.4391	
41 Dibenz(a,h)anthracene	278	15.164	15.164	0.000	97	97100	0.5000	0.4607	
42 Benzo[g,h,i]perylene	276	15.567	15.567	0.000	98	117789	0.5000	0.4827	

QC Flag Legend

Processing Flags

Reagents:

MSS_RVSIM_4_00025 Amount Added: 1.00 Units: mL

Report Date: 05-Dec-2022 05:47:34 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\NL0161.D

Injection Date: 05-Dec-2022 05:19:30 Instrument ID: HP23263 Operator ID: jmg00346

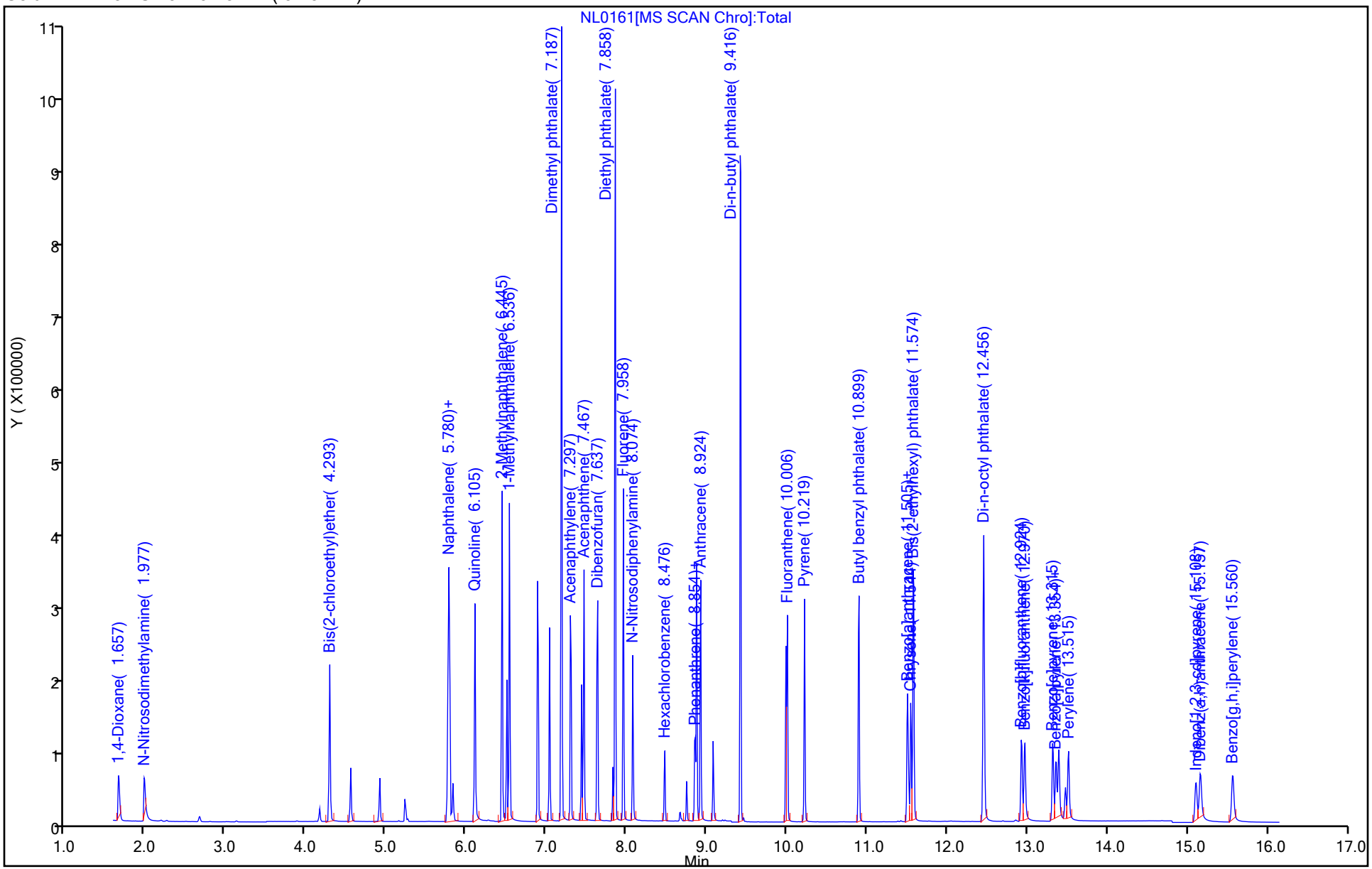
Lims ID: CCVIS Worklist Smp#: 2

Client ID:

Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 2

Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220728-62933.b\MG1350.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 28-Jul-2022 18:23:12 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 410-0062933-001
Operator ID: kel10217 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20220728-62933.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 29-Jul-2022 12:03:29 Calib Date: 28-Jul-2022 21:32:00
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20220728-62933.b\MG1356.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1671

First Level Reviewer: UJM0 Date: 29-Jul-2022 06:54:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
44 Pentachlorophenol_T	266	5.174	5.174	0.000	0	585346	NR	NR	
45 DFTPP									
46 Benzidine_T	184	6.433	6.433	0.000	0	1538713	NR	NR	
48 4,4'-DDD	235	6.885	6.885	0.000	0	3446		NR	
49 4,4'-DDT	235	7.154	7.154	0.000	0	765254	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

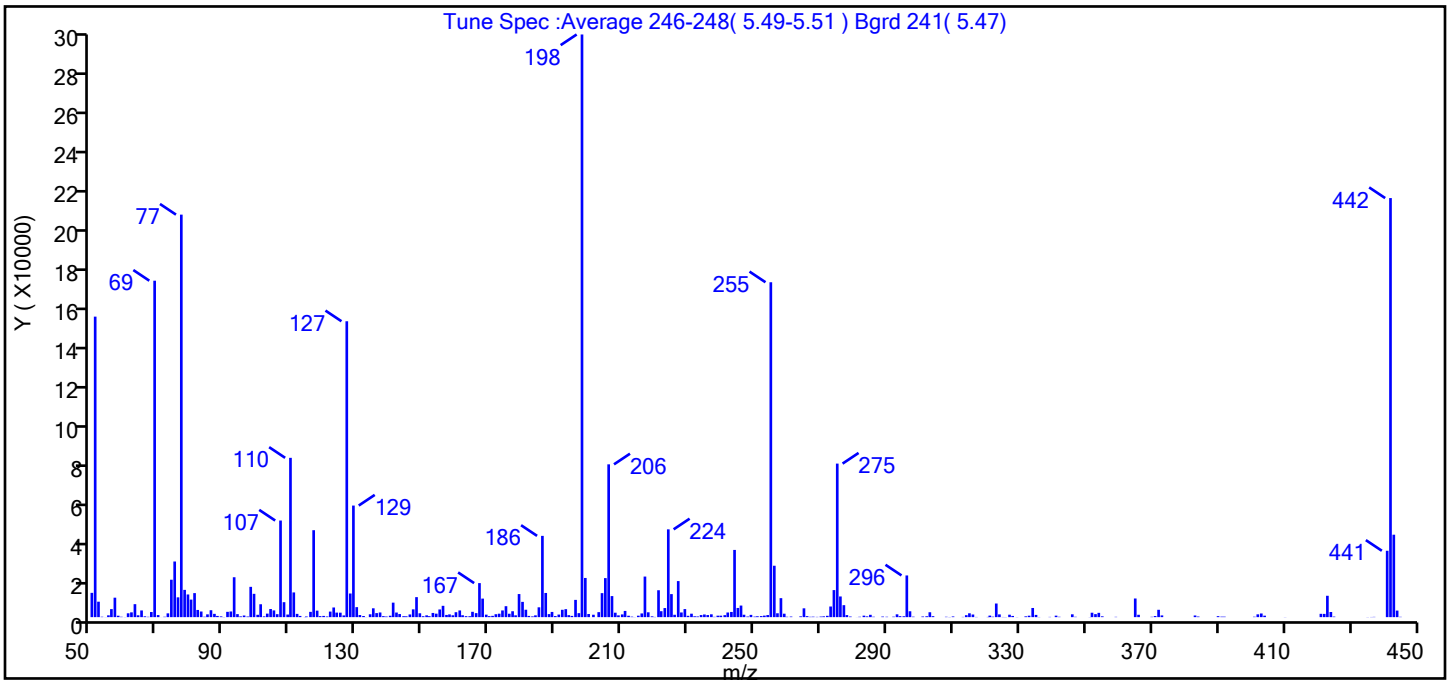
MSS_RVDFTPP_00011 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220728-62933.b\MG1350.D
Injection Date: 28-Jul-2022 18:23:12 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: kel10217 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM
Tune Method: DFTPP Method 8270D, BP 198

45 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (139.0)
51	10-80% of the base peak	51.6
68	<2% of mass 69	0.9 (1.5)
69	Present	57.7
70	<2% of mass 69	0.4 (0.6)
127	10-80% of the base peak	50.8
197	<2% of mass 198	0.7
199	5-9% of mass 198	6.7
275	10-60% of the base peak	26.4
365	>1% of mass 198	3.2
441	present but <24% of mass 442	11.4 (15.8)
442	base peak, or >50% of 198	71.9
443	15-24% of mass 442	14.1 (19.7)

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220728-62933.b\MG1350.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 28-Jul-2022 18:23:12
Spectrum: Tune Spec :Average 246-248(5.49-5.51) Bgrd 241(5.47)
Base Peak: 197.95
Minimum % Base Peak: 0
Number of Points: 309

m/z	Y	m/z	Y	m/z	Y	m/z	Y
50.00	12113	128.00	11793	207.00	10502	290.00	196
51.00	149888	129.00	55656	208.00	2211	292.00	235
52.00	7705	130.00	4987	209.00	887	293.00	1406
53.00	207	131.00	1053	210.00	1359	294.00	493
54.00	39	132.00	571	211.00	3099	295.00	437
55.00	904	133.00	41	212.00	703	296.00	20800
56.00	4009	134.00	1429	213.00	248	297.00	2930
57.00	9705	135.00	4412	214.00	52	298.00	236
58.00	714	136.00	2018	215.00	724	301.00	322
59.00	191	137.00	2329	216.00	1852	302.00	436
60.00	48	138.00	496	217.00	20240	303.00	2441
61.00	1918	139.00	308	218.00	2414	304.00	482
62.00	2387	140.00	707	219.00	397	308.00	187
63.00	6474	141.00	7232	220.00	107	309.00	82
64.00	920	142.00	2296	221.00	13415	310.00	343
65.00	3341	143.00	1545	222.00	2963	313.00	119
66.00	406	144.00	465	223.00	4532	314.00	969
67.00	175	145.00	412	224.00	43792	315.00	1919
68.00	2555	146.00	1343	225.00	11489	316.00	1315
69.00	167808	147.00	3890	226.00	1184	317.00	99
70.00	1034	148.00	9982	227.00	17984	320.00	107
71.00	18	149.00	1927	228.00	2332	321.00	761
72.00	200	150.00	459	229.00	4019	322.00	230
73.00	1895	151.00	897	230.00	673	323.00	6799
74.00	18664	152.00	485	231.00	1720	324.00	1367
75.00	27752	153.00	2092	232.00	421	325.00	87
76.00	9883	154.00	1729	233.00	336	326.00	73
77.00	200768	155.00	3835	234.00	1036	327.00	1219
78.00	13603	156.00	5647	235.00	1331	328.00	601
79.00	11311	157.00	1099	236.00	1036	329.00	53
80.00	8747	158.00	1365	237.00	1413	332.00	400
81.00	11986	159.00	926	238.00	148	333.00	721
82.00	3592	160.00	2464	239.00	731	334.00	4570

Report Date: 29-Jul-2022 12:03:30 Chrom Revision: 2.3 19-Jul-2022 21:48:42
Data File: \\chromfs\Lancaster\ChromData\HP21585\20220728-62933.b\MG1350.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 28-Jul-2022 18:23:12
Spectrum: Tune Spec :Average 246-248(5.49-5.51) Bgrd 241(5.47)
Base Peak: 197.95
Minimum % Base Peak: 0
Number of Points: 309

m/z	Y	m/z	Y	m/z	Y	m/z	Y
83.00	2814	161.00	3339	240.00	734	335.00	1114
84.00	217	162.00	934	241.00	986	336.00	81
85.00	1393	163.00	484	242.00	2316	339.00	121
86.00	3449	164.00	448	243.00	2591	341.00	739
87.00	1642	165.00	2663	244.00	33528	342.00	183
88.00	604	166.00	2003	245.00	4581	346.00	1412
89.00	377	167.00	16976	246.00	5778	347.00	175
90.00	73	168.00	9249	247.00	1197	351.00	61
91.00	2651	169.00	1241	248.00	296	352.00	2204
92.00	2830	170.00	509	249.00	1131	353.00	1509
93.00	19904	171.00	651	250.00	254	354.00	2148
94.00	1507	172.00	1463	251.00	438	355.00	409
95.00	380	173.00	1718	252.00	532	359.00	151
96.00	815	174.00	3342	253.00	758	365.00	9300
97.00	304	175.00	5462	254.00	1041	366.00	1181
98.00	15111	176.00	1692	255.00	167040	370.00	175
99.00	11628	177.00	2942	256.00	25640	371.00	547
100.00	1168	178.00	906	257.00	1932	372.00	3668
101.00	6432	179.00	11516	258.00	9471	373.00	859
102.00	381	180.00	7618	259.00	1715	383.00	827
103.00	1758	181.00	3698	260.00	191	384.00	301
104.00	4049	182.00	619	261.00	294	390.00	489
105.00	3363	183.00	365	264.00	389	391.00	244
106.00	1475	184.00	890	265.00	4397	392.00	241
107.00	48184	185.00	4906	266.00	501	401.00	216
108.00	7463	186.00	40536	267.00	170	402.00	1394
109.00	1294	187.00	12062	268.00	233	403.00	1830
110.00	79464	188.00	1512	269.00	133	404.00	731
111.00	12326	189.00	2599	270.00	281	410.00	53
112.00	1634	190.00	534	271.00	398	421.00	1656
113.00	606	191.00	1277	272.00	667	422.00	1624
114.00	66	192.00	3664	273.00	5308	423.00	10658
115.00	326	193.00	3979	274.00	13492	424.00	2563
116.00	2639	194.00	992	275.00	76584	425.00	268

Report Date: 29-Jul-2022 12:03:30 Chrom Revision: 2.3 19-Jul-2022 21:48:42
Data File: \\chromfs\Lancaster\ChromData\HP21585\20220728-62933.b\MG1350.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 28-Jul-2022 18:23:12
Spectrum: Tune Spec :Average 246-248(5.49-5.51) Bgrd 241(5.47)
Base Peak: 197.95
Minimum % Base Peak: 0
Number of Points: 309

m/z	Y	m/z	Y	m/z	Y	m/z	Y
117.00	43368	195.00	622	276.00	10311	435.00	58
118.00	3249	196.00	8609	277.00	5971	436.00	87
119.00	511	197.00	1990	278.00	1024	437.00	134
120.00	619	198.00	290624	279.00	301	441.00	33104
121.00	328	199.00	19544	281.00	22	442.00	209024
122.00	2775	200.00	1564	282.00	186	443.00	41120
123.00	4816	201.00	1199	283.00	741	444.00	3270
124.00	2270	203.00	2492	284.00	380	445.00	158
125.00	2225	204.00	11977	285.00	1166		
126.00	855	205.00	19472	286.00	200		
127.00	147584	206.00	76216	289.00	289		

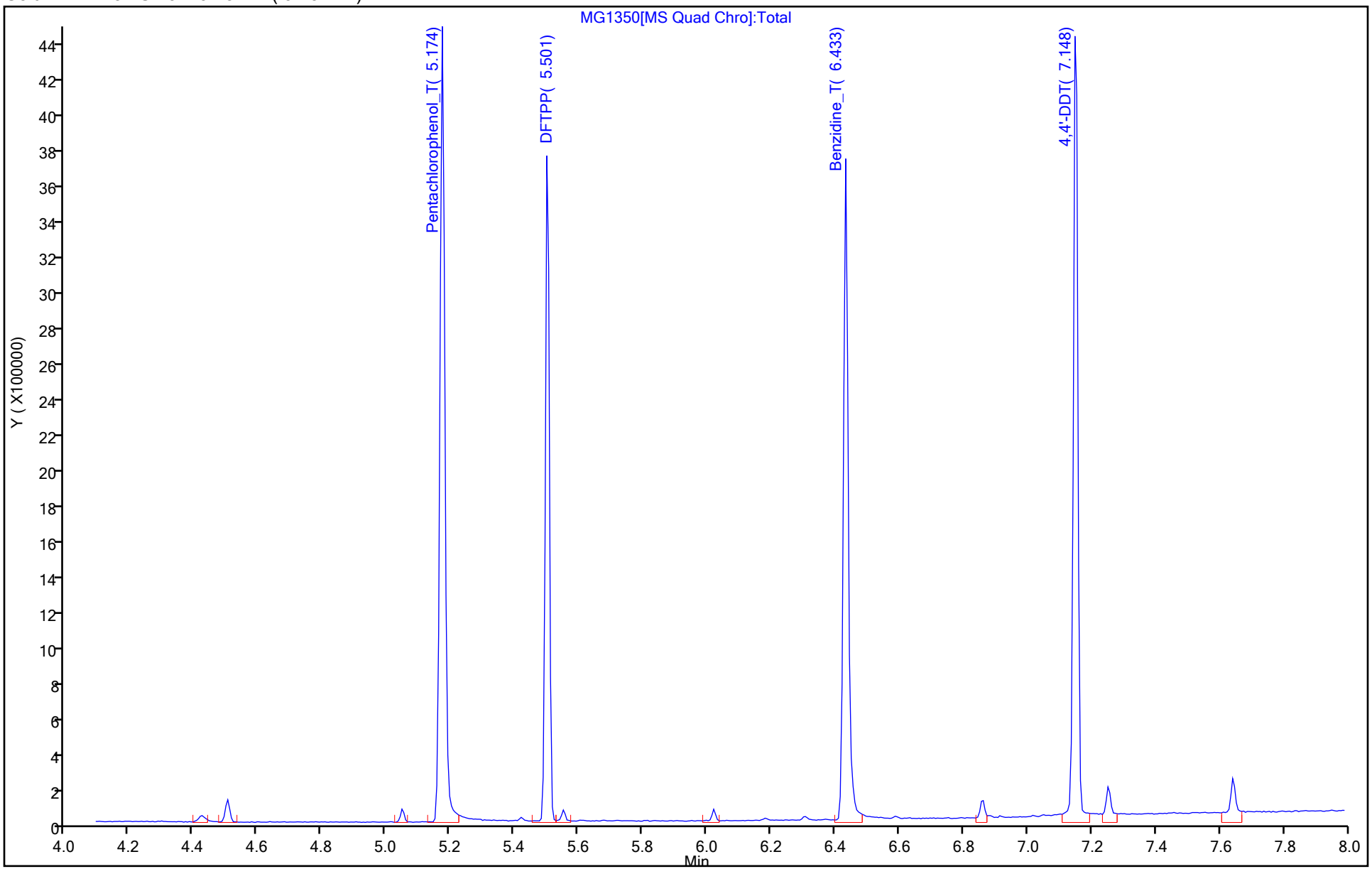
Report Date: 29-Jul-2022 12:03:30 Chrom Revision: 2.3 19-Jul-2022 21:48:42

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220728-62933.b\MG1350.D

Injection Date:	28-Jul-2022 18:23:12	Instrument ID:	HP21585	Operator ID:	kel10217
Lims ID:	DFTPP			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)

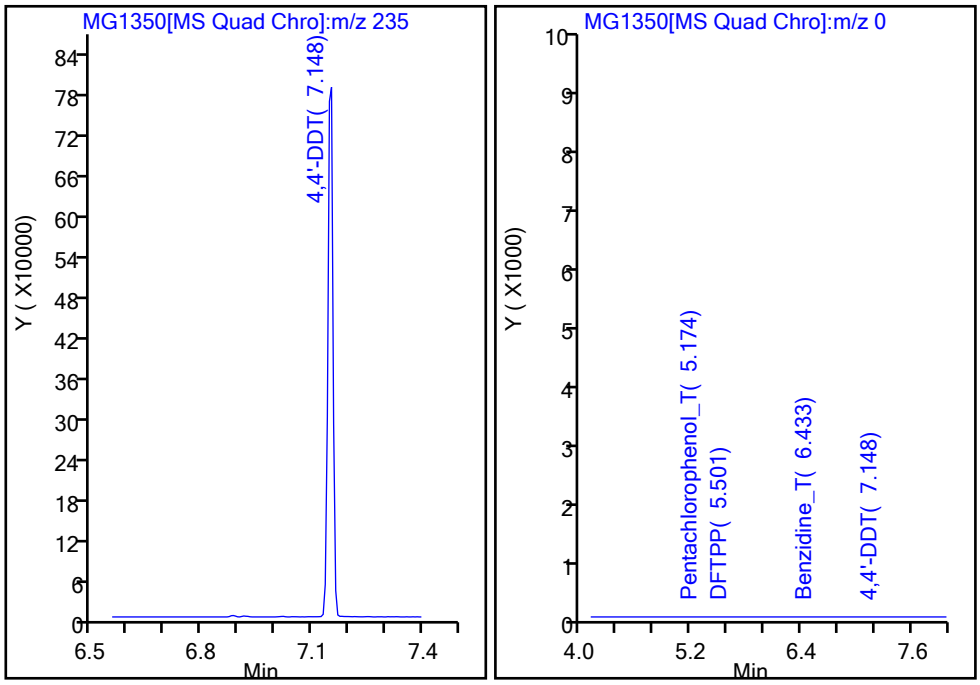


Breakdown Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20220728-62933.b\MG1350.D				
Injection Date:	28-Jul-2022 18:23:12	Instrument ID:	HP21585		
Lims ID:	DFTPP				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	1
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

49 4,4'-DDT, Detector: MS Quad



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

49 4,4'-DDT, Area = 765254
47 4,4'-DDE, Area = 0
48 4,4'-DDD, Area = 3446

%Breakdown: 0.45%, <= 20.00%
Passed

Peak Tailing Report

Eurofins Lancaster Laboratories Environment Testing, LLC

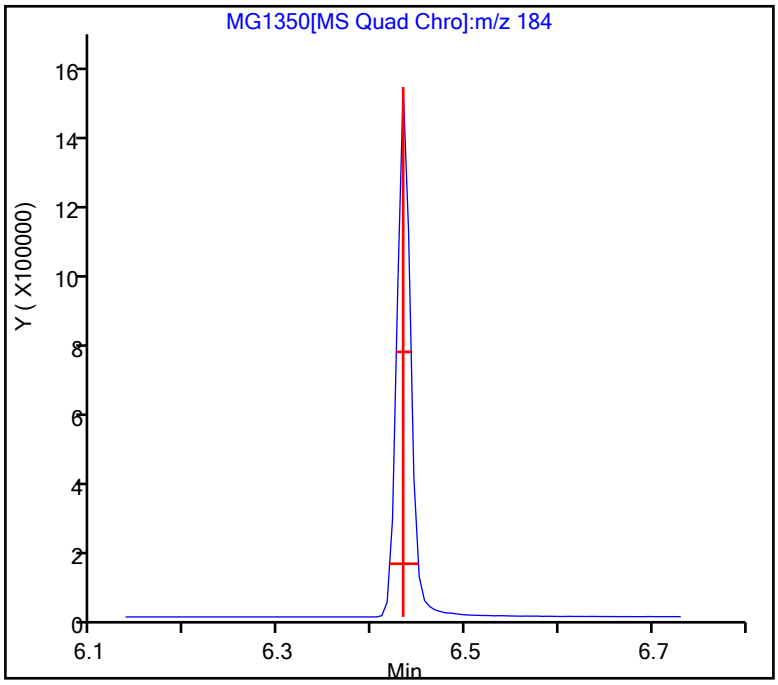
Data File: \\chromfs\Lancaster\ChromData\HP21585\20220728-62933.b\MG1350.D
Injection Date: 28-Jul-2022 18:23:12 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: kel10217 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

46 Benzidine_T, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.016 (min.)
Front Width = 0.014 (min.)

Tailing Factor = 1.14, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Environment Testing, LLC

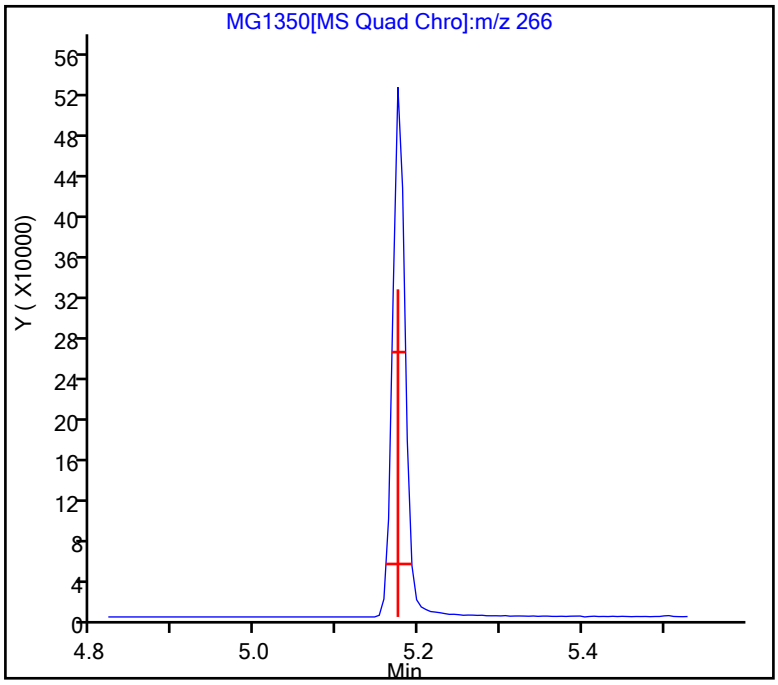
Data File: \\chromfs\Lancaster\ChromData\HP21585\20220728-62933.b\MG1350.D
Injection Date: 28-Jul-2022 18:23:12 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: kel10217 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

44 Pentachlorophenol_T, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.017 (min.)
Front Width = 0.015 (min.)

Tailing Factor = 1.13, Max. Tailing <= 2.00
Passed



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20221201-72264.b\ML0010.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 01-Dec-2022 05:31:37 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 410-0072264-001
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20221201-72264.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 01-Dec-2022 06:13:38 Calib Date: 28-Jul-2022 21:32:00
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20220728-62933.b\MG1356.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: UJM0 Date: 01-Dec-2022 05:43:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
44 Pentachlorophenol_T	266	4.905	4.905	0.000	0	2802673	NR	NR	
45 DFTPP									
46 Benzidine_T	184	6.147	6.147	0.000	0	7342627	NR	NR	
48 4,4'-DDD	235	6.576	6.576	0.000	0	281555		NR	
49 4,4'-DDT	235	6.828	6.828	0.000	0	4036315	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

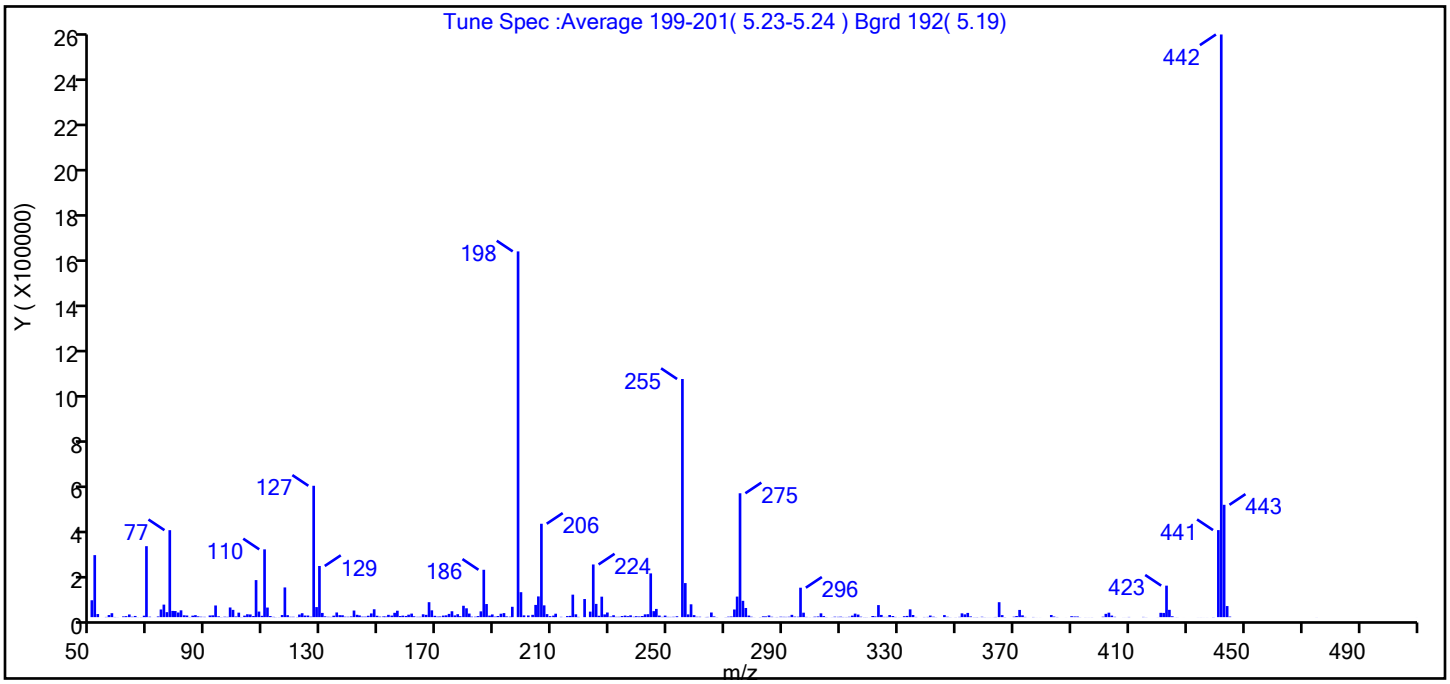
MSS_RVDFTPP_00011 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20221201-72264.b\ML0010.D
Injection Date: 01-Dec-2022 05:31:37 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM
Tune Method: DFTPP Method 8270D, BP 198

45 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (62.8)
51	10-80% of the base peak	17.0
68	<2% of mass 69	0.4 (2.0)
69	Present	19.4
70	<2% of mass 69	0.1 (0.6)
127	10-80% of the base peak	35.9
197	<2% of mass 198	0.0
199	5-9% of mass 198	6.8
275	10-60% of the base peak	33.9
365	>1% of mass 198	4.1
441	present but <24% of mass 442	23.8 (14.9)
442	base peak, or >50% of 198	159.3
443	15-24% of mass 442	30.7 (19.3)

Data File: \\chromfs\Lancaster\ChromData\HP21585\20221201-72264.b\ML0010.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 01-Dec-2022 05:31:37
Spectrum: Tune Spec :Average 199-201(5.23-5.24) Bgrd 192(5.19)
Base Peak: 442.05
Minimum % Base Peak: 0
Number of Points: 354

m/z	Y	m/z	Y	m/z	Y	m/z	Y
50.00	74552	141.00	29192	235.00	6916	329.00	996
51.00	273728	142.00	10333	236.00	4454	330.00	283
52.00	13687	143.00	7602	237.00	7997	331.00	227
54.00	138	144.00	2299	238.00	1702	332.00	4026
55.00	975	145.00	2218	239.00	4189	333.00	5459
56.00	9253	146.00	6214	240.00	3054	334.00	34432
57.00	17424	147.00	16488	241.00	5053	335.00	9399
58.00	807	148.00	34752	242.00	12312	336.00	993
59.00	315	149.00	6141	243.00	13053	339.00	774
61.00	3337	150.00	2260	244.00	193152	340.00	1007
62.00	4415	151.00	3281	245.00	26456	341.00	7162
63.00	11790	152.00	2753	246.00	36312	342.00	2007
64.00	1851	153.00	10199	247.00	7096	343.00	486
65.00	5276	154.00	6912	248.00	1289	346.00	9105
66.00	358	155.00	19144	249.00	6856	347.00	1837
67.00	486	156.00	28352	250.00	1316	348.00	429
68.00	6386	157.00	4883	251.00	1139	349.00	56
69.00	313280	158.00	6689	252.00	1722	350.00	415
70.00	1950	159.00	5214	253.00	3989	351.00	1227
71.00	85	160.00	10893	255.00	1051136	352.00	16784
72.00	110	161.00	15708	256.00	150336	353.00	12246
73.00	3050	162.00	3810	257.00	12184	354.00	18664
74.00	33848	163.00	1535	258.00	56704	355.00	3256
75.00	55296	164.00	1624	259.00	8876	356.00	525
76.00	22016	165.00	12563	260.00	1746	357.00	655
77.00	383872	166.00	10184	261.00	1706	358.00	249
78.00	27536	167.00	66024	263.00	759	359.00	1677
79.00	26928	168.00	30048	264.00	1078	360.00	436
80.00	20488	169.00	5908	265.00	20504	361.00	238
81.00	30040	170.00	2409	266.00	3276	362.00	247
82.00	8097	171.00	2926	267.00	522	363.00	298
83.00	7197	172.00	6883	270.00	571	364.00	863
84.00	771	173.00	7928	271.00	2079	365.00	65960

Report Date: 01-Dec-2022 06:13:38 Chrom Revision: 2.3 22-Nov-2022 16:59:54
Data File: \\chromfs\Lancaster\ChromData\HP21585\20221201-72264.b\ML0010.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 01-Dec-2022 05:31:37
Spectrum: Tune Spec :Average 199-201(5.23-5.24) Bgrd 192(5.19)
Base Peak: 442.05
Minimum % Base Peak: 0
Number of Points: 354

m/z	Y	m/z	Y	m/z	Y	m/z	Y
85.00	6485	174.00	14319	272.00	2808	366.00	8893
86.00	8708	175.00	26008	273.00	33752	367.00	637
87.00	3550	176.00	7620	274.00	90744	370.00	2022
88.00	1854	177.00	13019	275.00	546752	371.00	4886
89.00	1398	178.00	4078	276.00	72056	372.00	31864
90.00	69	179.00	50224	277.00	40432	373.00	7959
91.00	7372	180.00	39088	278.00	6970	374.00	1018
92.00	8035	181.00	15815	279.00	1845	375.00	124
93.00	51504	182.00	2180	280.00	308	377.00	792
94.00	3504	183.00	1939	282.00	633	378.00	169
95.00	645	184.00	4656	283.00	3529	379.00	149
96.00	1886	185.00	25600	284.00	3311	383.00	9424
97.00	1270	186.00	209088	285.00	7471	384.00	2616
98.00	42656	187.00	57848	286.00	1732	385.00	739
99.00	32120	188.00	6821	287.00	232	386.00	61
100.00	2833	189.00	11923	288.00	753	388.00	136
101.00	19776	190.00	2193	289.00	1977	390.00	4216
102.00	737	191.00	4938	290.00	1436	391.00	2956
103.00	6575	192.00	15102	291.00	1204	392.00	2960
104.00	12695	193.00	17856	292.00	1816	393.00	368
105.00	11865	194.00	3275	293.00	10166	395.00	299
106.00	4912	195.00	2037	294.00	2391	396.00	222
107.00	163520	196.00	45688	295.00	1821	397.00	353
108.00	24616	198.00	1614336	296.00	129976	401.00	1946
109.00	5873	199.00	110152	297.00	19656	402.00	14592
110.00	299264	200.00	7817	298.00	1113	403.00	19656
111.00	42328	202.00	7463	299.00	372	404.00	6817
112.00	4852	203.00	10210	300.00	211	405.00	1473
113.00	1332	204.00	53936	301.00	2155	408.00	176
114.00	577	205.00	91472	302.00	2998	409.00	162
115.00	502	206.00	412224	303.00	16864	410.00	910
116.00	9154	207.00	52016	304.00	4517	415.00	1054
117.00	131136	208.00	13337	305.00	760	416.00	377
118.00	8622	209.00	4351	306.00	108	420.00	220

Report Date: 01-Dec-2022 06:13:38 Chrom Revision: 2.3 22-Nov-2022 16:59:54
Data File: \\chromfs\Lancaster\ChromData\HP21585\20221201-72264.b\ML0010.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 01-Dec-2022 05:31:37
Spectrum: Tune Spec :Average 199-201(5.23-5.24) Bgrd 192(5.19)
Base Peak: 442.05
Minimum % Base Peak: 0
Number of Points: 354

m/z	Y	m/z	Y	m/z	Y	m/z	Y
119.00	1565	210.00	6690	307.00	329	421.00	19040
120.00	1645	211.00	15179	308.00	1999	422.00	18576
121.00	796	213.00	1333	309.00	1441	423.00	139072
122.00	11413	214.00	233	310.00	2062	424.00	32288
123.00	17336	215.00	4678	311.00	800	425.00	3900
124.00	7008	216.00	5584	312.00	773	426.00	211
125.00	7102	217.00	99312	313.00	1774	427.00	274
126.00	2179	218.00	12575	314.00	6738	429.00	36
127.00	579840	219.00	1137	315.00	15515	434.00	161
128.00	44368	221.00	79984	316.00	11378	435.00	207
129.00	225792	223.00	24416	317.00	2039	436.00	106
130.00	18640	224.00	232512	318.00	504	437.00	146
131.00	3555	225.00	58480	319.00	477	439.00	599
132.00	1680	226.00	6104	320.00	190	441.00	384192
133.00	1098	227.00	90376	321.00	4951	442.00	2571776
134.00	6513	228.00	12172	322.00	3051	443.00	495872
135.00	20608	229.00	20440	323.00	53208	444.00	48936
136.00	8732	230.00	2716	324.00	9725	445.00	2463
137.00	8343	231.00	8457	325.00	1098	475.00	206
138.00	1982	232.00	1468	326.00	1115	510.00	63
139.00	1798	233.00	1575	327.00	9450		
140.00	3013	234.00	4961	328.00	5013		

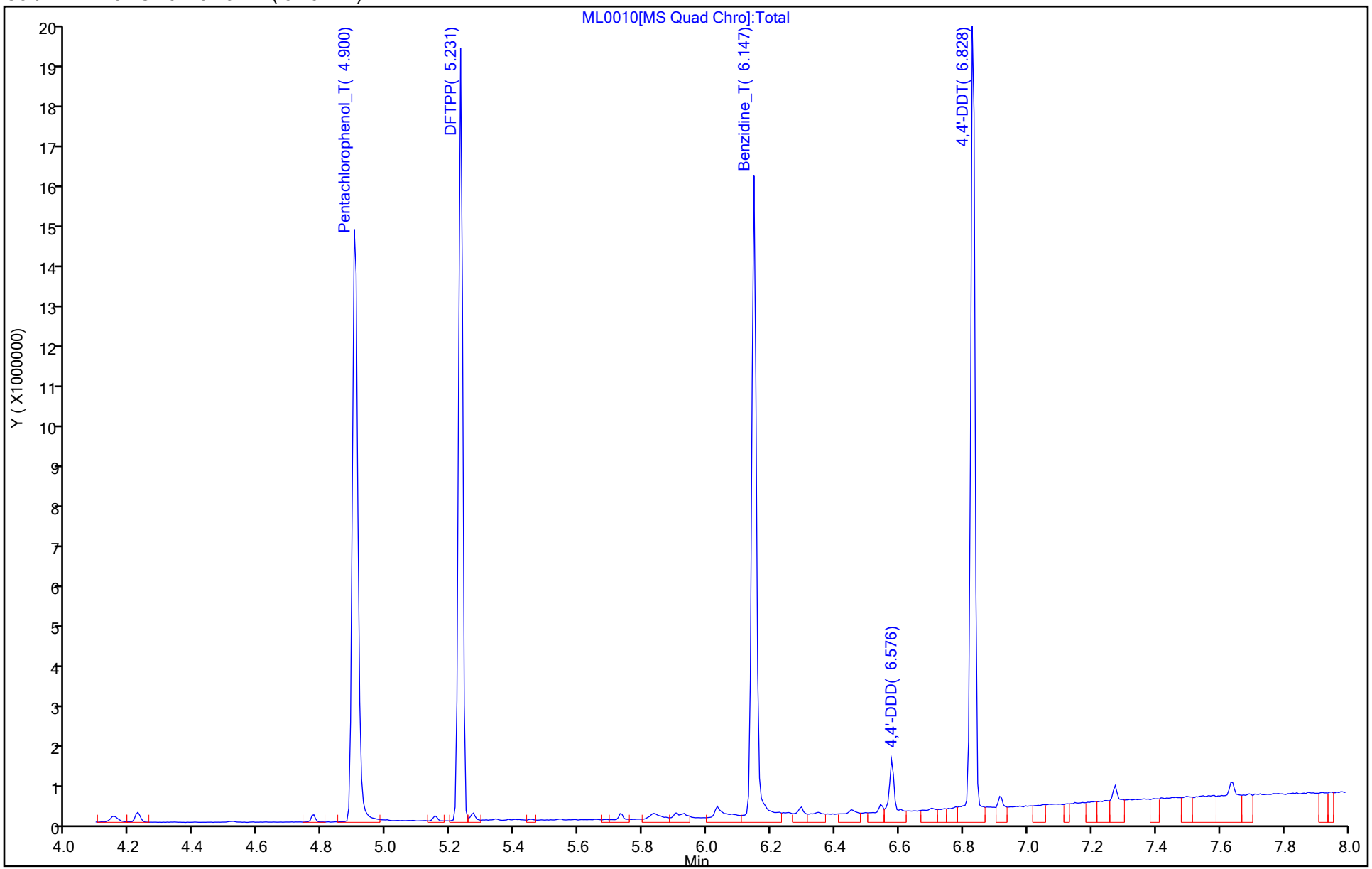
Report Date: 01-Dec-2022 06:13:38 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20221201-72264.b\ML0010.D

Injection Date:	01-Dec-2022 05:31:37	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	DFTPP			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Breakdown Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20221201-72264.b\ML0010.D				
Injection Date:	01-Dec-2022 05:31:37	Instrument ID:	HP21585		
Lims ID:	DFTPP				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	1
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

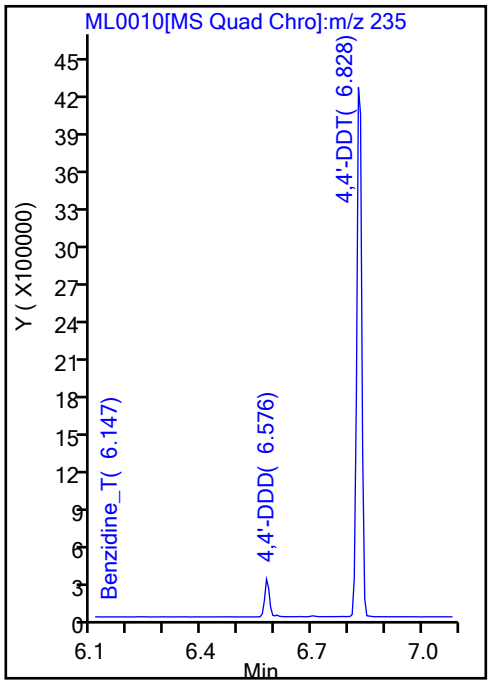
49 4,4'-DDT, Detector: MS Quad

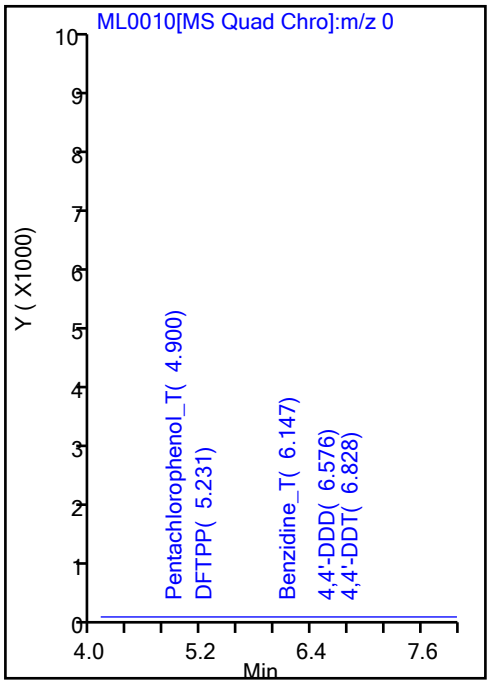
SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

49 4,4'-DDT, Area = 4036315
47 4,4'-DDE, Area = 0
48 4,4'-DDD, Area = 281555

%Breakdown: 6.52%, <= 20.00%
Passed





Peak Tailing Report

Eurofins Lancaster Laboratories Environment Testing, LLC

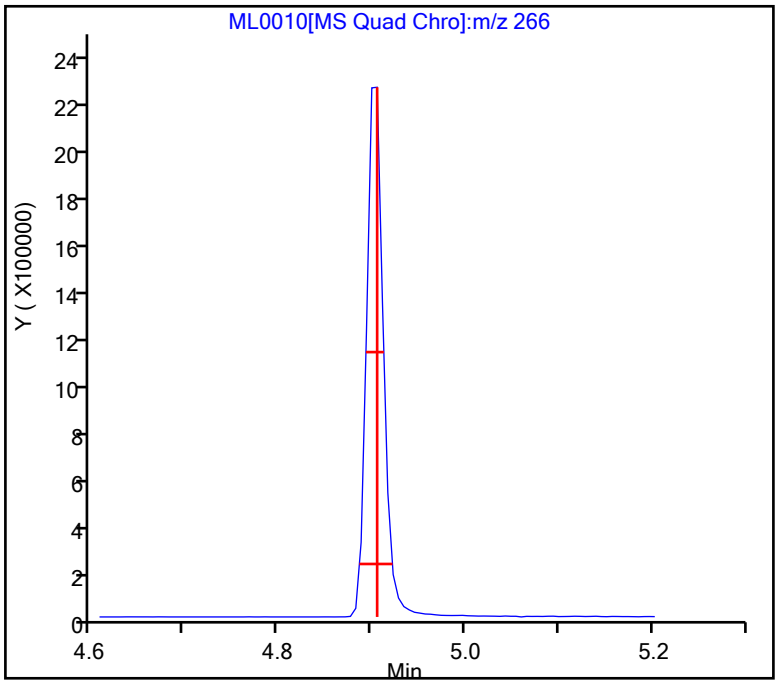
Data File: \\chromfs\Lancaster\ChromData\HP21585\20221201-72264.b\ML0010.D
Injection Date: 01-Dec-2022 05:31:37 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

44 Pentachlorophenol_T, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.016 (min.)
Front Width = 0.019 (min.)

Tailing Factor = 0.84, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Environment Testing, LLC

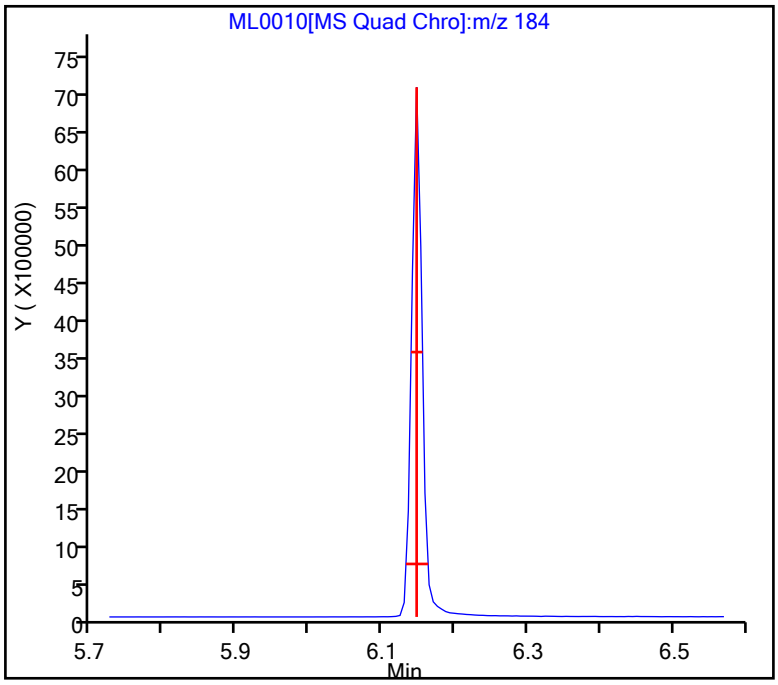
Data File: \\chromfs\Lancaster\ChromData\HP21585\20221201-72264.b\ML0010.D
Injection Date: 01-Dec-2022 05:31:37 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

46 Benzidine_T, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.016 (min.)
Front Width = 0.015 (min.)

Tailing Factor = 1.07, Max. Tailing <= 2.00
Passed



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0020.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 05-Oct-2022 09:35:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 410-0067959-001
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 05-Oct-2022 16:18:42 Calib Date: 05-Oct-2022 11:42:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0026.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1660

First Level Reviewer: UJM0 Date: 05-Oct-2022 10:11:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
44 Pentachlorophenol_T	266	4.623	4.623	0.000	98	1441838	NR	NR	
45 DFTPP									
46 Benzidine_T	184	5.910	5.910	0.000	99	4838469	NR	NR	
49 4,4'-DDT	235	6.603	6.603	0.000	98	2675058	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

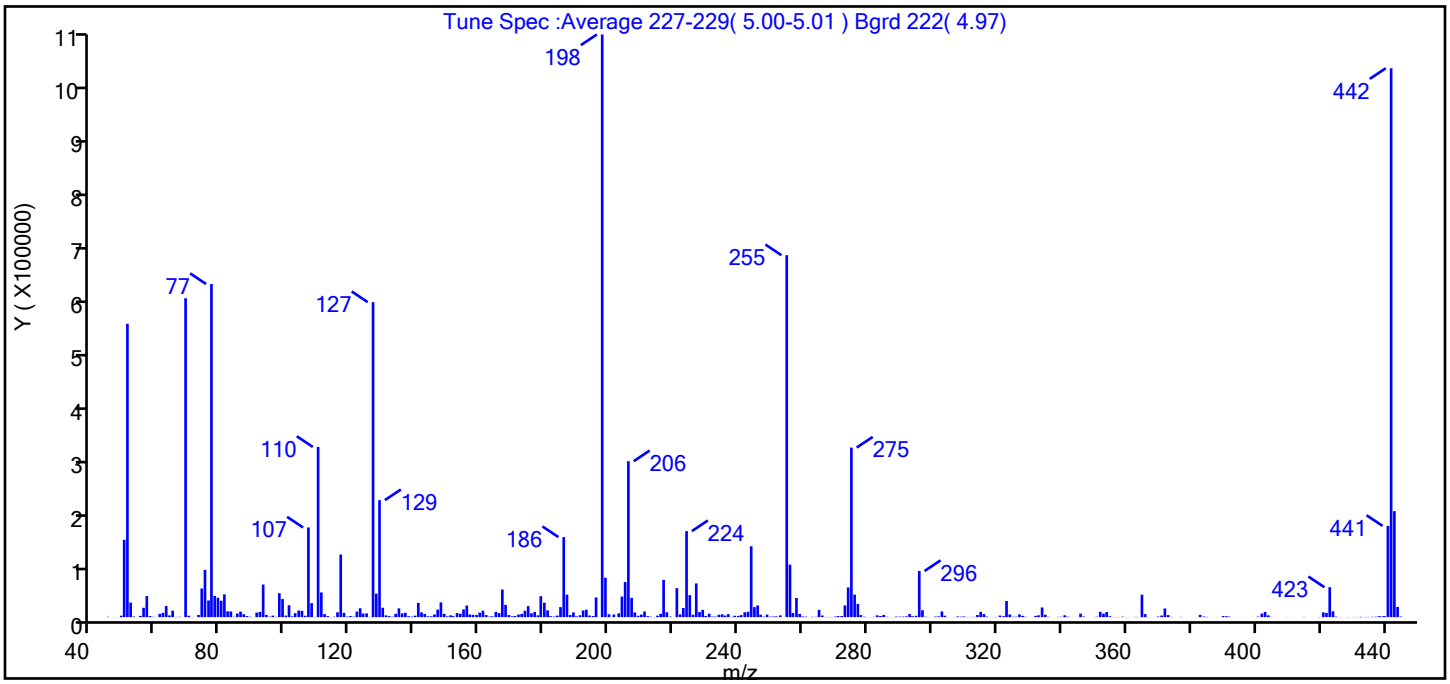
MSS_RVDFTPP_00011 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0020.D
Injection Date: 05-Oct-2022 09:35:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM
Tune Method: DFTPP Method 8270D, BP 198

45 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (106.1)
51	10-80% of the base peak	50.4
68	<2% of mass 69	0.0 (0.0)
69	Present	54.7
70	<2% of mass 69	0.2 (0.4)
127	10-80% of the base peak	54.1
197	<2% of mass 198	0.0
199	5-9% of mass 198	6.8
275	10-60% of the base peak	29.1
365	>1% of mass 198	3.9
441	present but <24% of mass 442	15.7 (16.6)
442	base peak, or >50% of 198	94.2
443	15-24% of mass 442	18.2 (19.3)

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0020.D\8270_SIM_HP23263.rslt\spectra
Injection Date: 05-Oct-2022 09:35:30
Spectrum: Tune Spec :Average 227-229(5.00-5.01) Bgrd 222(4.97)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 367

m/z	Y	m/z	Y	m/z	Y	m/z	Y
45.00	631	140.00	2497	235.00	4907	329.00	635
47.00	185	141.00	24720	236.00	2763	330.00	114
48.00	185	142.00	8371	237.00	5250	331.00	144
49.00	2480	143.00	5401	238.00	527	332.00	2173
50.00	134080	144.00	1483	239.00	2355	333.00	3205
51.00	508736	145.00	1429	240.00	2183	334.00	16816
52.00	25288	146.00	4572	241.00	3485	335.00	4151
53.00	1028	147.00	13014	242.00	8368	336.00	548
54.00	25	148.00	25584	243.00	9329	339.00	413
55.00	2139	149.00	5740	244.00	122880	340.00	645
56.00	16217	150.00	1398	245.00	17400	341.00	3208
57.00	36504	151.00	3169	246.00	20296	342.00	866
58.00	1843	152.00	1688	247.00	4111	343.00	156
59.00	590	153.00	7107	248.00	825	345.00	84
60.00	227	154.00	5932	249.00	4433	346.00	6147
61.00	5748	155.00	13465	250.00	940	347.00	1077
62.00	7540	156.00	20096	251.00	1048	348.00	86
63.00	19448	157.00	4569	252.00	1271	350.00	198
64.00	3009	158.00	3956	253.00	3038	351.00	711
65.00	11272	159.00	3697	255.00	627584	352.00	9131
66.00	408	160.00	7786	256.00	91056	353.00	6018
67.00	569	161.00	11200	257.00	7143	354.00	8828
69.00	552960	162.00	3627	258.00	33280	355.00	1566
70.00	2466	163.00	1055	259.00	5609	356.00	269
71.00	177	164.00	1379	260.00	1102	357.00	327
73.00	3732	165.00	9049	261.00	960	358.00	149
74.00	49608	166.00	6973	262.00	163	359.00	781
75.00	81808	167.00	47872	263.00	572	360.00	211
76.00	28928	168.00	21320	264.00	536	361.00	168
77.00	577600	169.00	3628	265.00	12659	362.00	54
78.00	36880	170.00	1467	266.00	2784	363.00	471
79.00	33664	171.00	2067	267.00	222	364.00	173
80.00	28416	172.00	4528	268.00	385	365.00	38904

Report Date: 05-Oct-2022 16:18:42 Chrom Revision: 2.3 22-Sep-2022 21:23:26
Data File: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0020.D\8270_SIM_HP23263.rslt\spectra
Injection Date: 05-Oct-2022 09:35:30
Spectrum: Tune Spec :Average 227-229(5.00-5.01) Bgrd 222(4.97)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 367

m/z	Y	m/z	Y	m/z	Y	m/z	Y
81.00	39488	173.00	5577	269.00	351	366.00	5192
82.00	10065	174.00	11117	270.00	996	367.00	310
83.00	9904	175.00	19080	271.00	1846	369.00	50
84.00	506	176.00	6667	272.00	1968	370.00	977
85.00	6316	177.00	8800	273.00	20304	371.00	2746
86.00	9581	178.00	3125	274.00	51464	372.00	15034
87.00	5048	179.00	36352	275.00	294016	373.00	3549
88.00	1805	180.00	24952	276.00	39024	374.00	442
89.00	725	181.00	11841	277.00	22968	377.00	388
90.00	242	182.00	1729	278.00	3512	378.00	78
91.00	7799	183.00	1009	279.00	776	382.00	78
92.00	9142	184.00	2678	280.00	137	383.00	3916
93.00	56576	185.00	17408	281.00	228	384.00	1027
94.00	3937	186.00	138816	282.00	526	385.00	444
95.00	800	187.00	38960	283.00	3130	388.00	134
96.00	2649	188.00	3621	284.00	1957	390.00	1917
97.00	498	189.00	8130	285.00	3829	391.00	1578
98.00	41568	190.00	1354	286.00	688	392.00	981
99.00	31368	191.00	3272	287.00	124	393.00	79
100.00	2727	192.00	11529	288.00	261	395.00	51
101.00	20728	193.00	12928	289.00	974	397.00	111
102.00	1376	194.00	2801	290.00	813	401.00	915
103.00	6871	195.00	2028	291.00	944	402.00	6190
104.00	11450	196.00	34168	292.00	1307	403.00	8956
105.00	10971	198.00	1010304	293.00	5362	404.00	3028
106.00	2449	199.00	68416	294.00	1615	405.00	439
107.00	155456	200.00	4991	295.00	2338	409.00	50
108.00	24320	202.00	4648	296.00	80032	410.00	257
109.00	299	203.00	6620	297.00	11997	415.00	411
110.00	295168	204.00	35696	298.00	665	416.00	63
111.00	42784	205.00	60840	299.00	191	418.00	103
112.00	5208	206.00	270400	300.00	119	419.00	109
113.00	1823	207.00	33568	301.00	1031	420.00	331
114.00	308	208.00	8136	302.00	1288	421.00	8251

Report Date: 05-Oct-2022 16:18:42 Chrom Revision: 2.3 22-Sep-2022 21:23:26
Data File: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0020.D\8270_SIM_HP23263.rslt\spectra
Injection Date: 05-Oct-2022 09:35:30
Spectrum: Tune Spec :Average 227-229(5.00-5.01) Bgrd 222(4.97)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 367

m/z	Y	m/z	Y	m/z	Y	m/z	Y
115.00	683	209.00	2349	303.00	9872	422.00	7366
116.00	8383	210.00	4398	304.00	2482	423.00	51880
117.00	108624	211.00	9874	305.00	201	424.00	10122
118.00	7534	212.00	1691	307.00	222	425.00	877
119.00	1041	213.00	780	308.00	1184	426.00	302
120.00	1876	214.00	253	309.00	805	427.00	163
121.00	817	215.00	2460	310.00	1128	428.00	197
122.00	9684	216.00	5730	311.00	297	429.00	212
123.00	15490	217.00	64712	312.00	321	430.00	146
124.00	6312	218.00	8446	313.00	545	431.00	286
125.00	6419	219.00	971	314.00	3696	432.00	286
126.00	406	221.00	50240	315.00	9234	433.00	471
127.00	546176	222.00	4806	316.00	5287	434.00	372
128.00	40688	223.00	15943	317.00	962	435.00	446
129.00	202880	224.00	149184	318.00	58	436.00	577
130.00	16230	225.00	38152	319.00	200	437.00	836
131.00	3074	226.00	4194	320.00	389	438.00	1643
132.00	1822	227.00	58416	321.00	2761	439.00	1041
133.00	744	228.00	8909	322.00	1639	440.00	1925
134.00	5689	229.00	12629	323.00	28000	441.00	158208
135.00	15204	230.00	2037	324.00	4634	442.00	951808
136.00	6479	231.00	5865	325.00	682	443.00	183744
137.00	7538	232.00	938	326.00	775	444.00	17800
138.00	1616	233.00	932	327.00	4809	445.00	977
139.00	977	234.00	4146	328.00	2230		

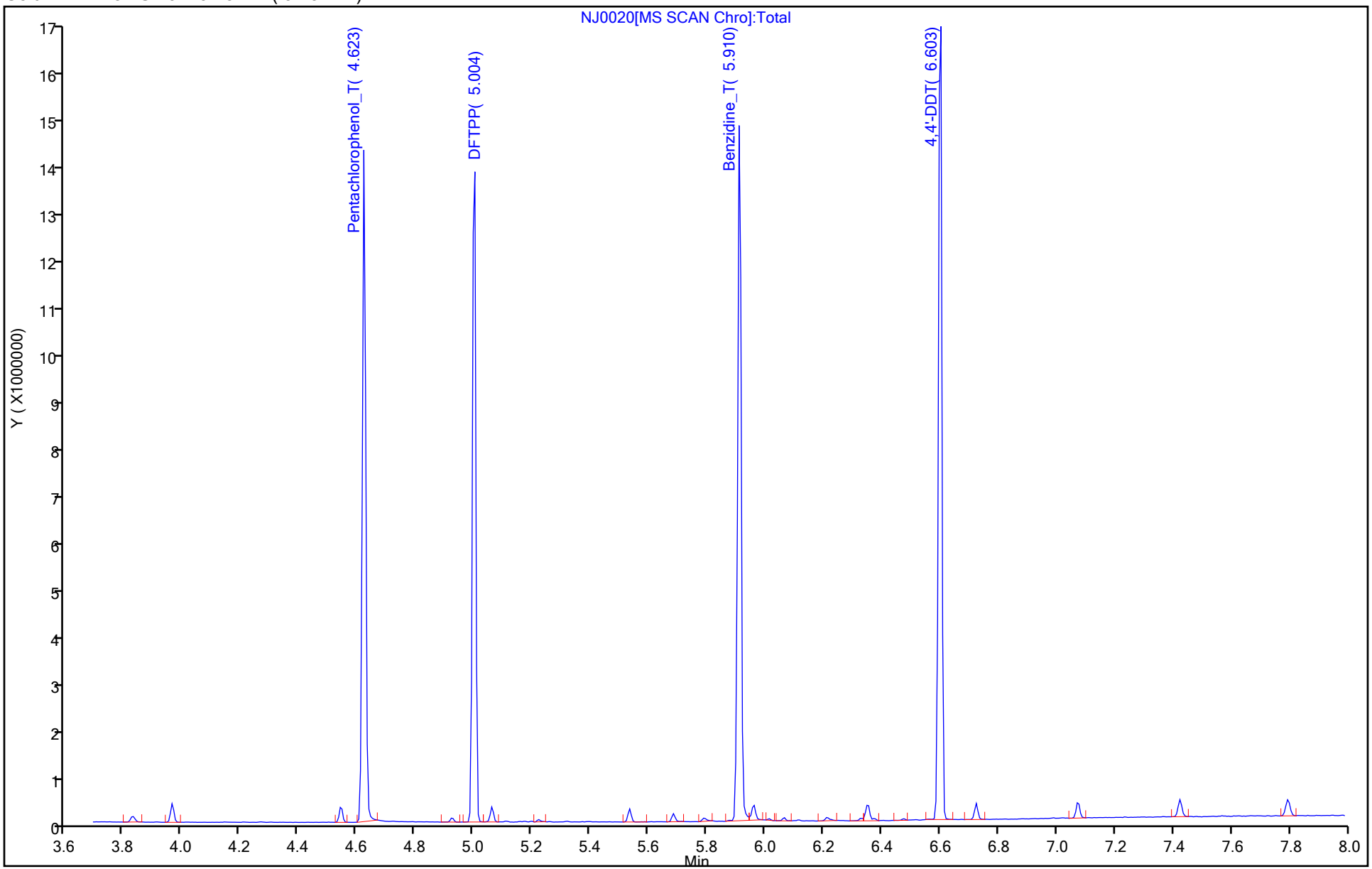
Report Date: 05-Oct-2022 16:18:42 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0020.D

Injection Date:	05-Oct-2022 09:35:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	DFTPP			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Breakdown Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0020.D
Injection Date: 05-Oct-2022 09:35:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

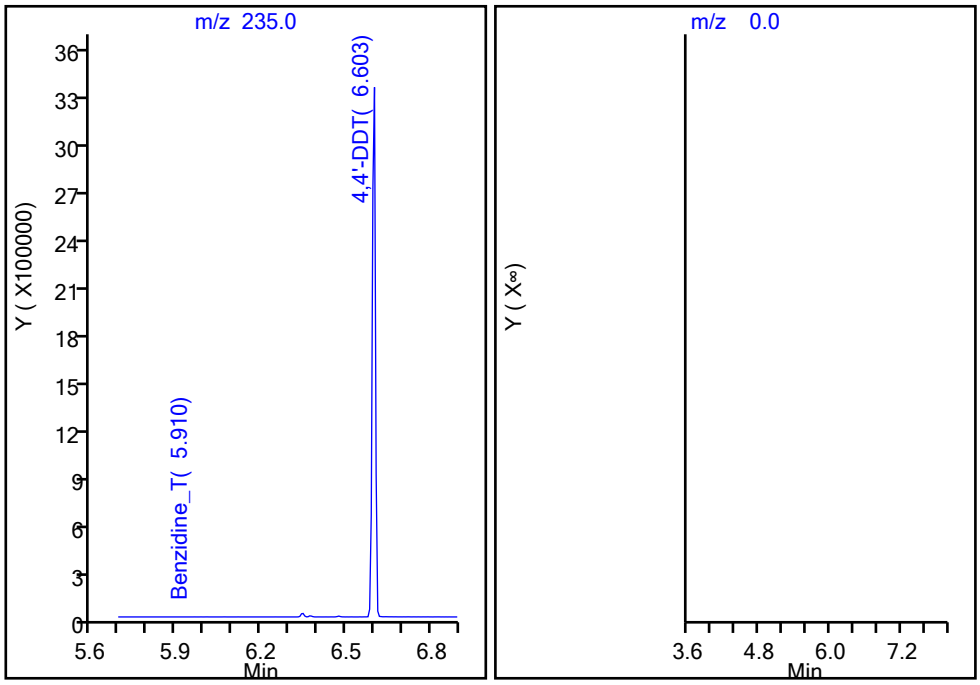
49 4,4'-DDT, Detector: MS SCAN

SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

49 4,4'-DDT, Area = 2675058
47 4,4'-DDE, Area = 0
48 4,4'-DDD, Area = 0

%Breakdown: 0.00%, <= 20.00%
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Environment Testing, LLC

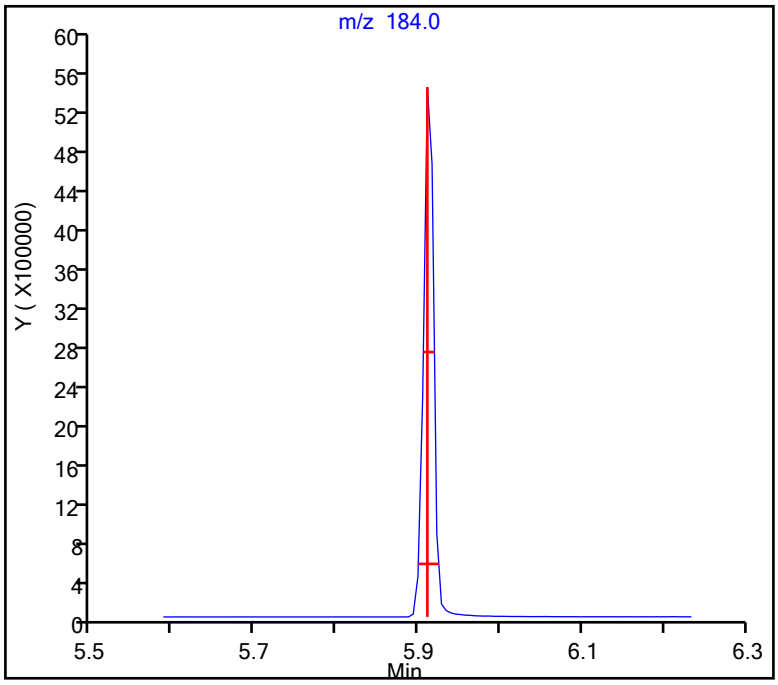
Data File: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0020.D
Injection Date: 05-Oct-2022 09:35:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

46 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.014 (min.)
Front Width = 0.011 (min.)

Tailing Factor = 1.27, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Environment Testing, LLC

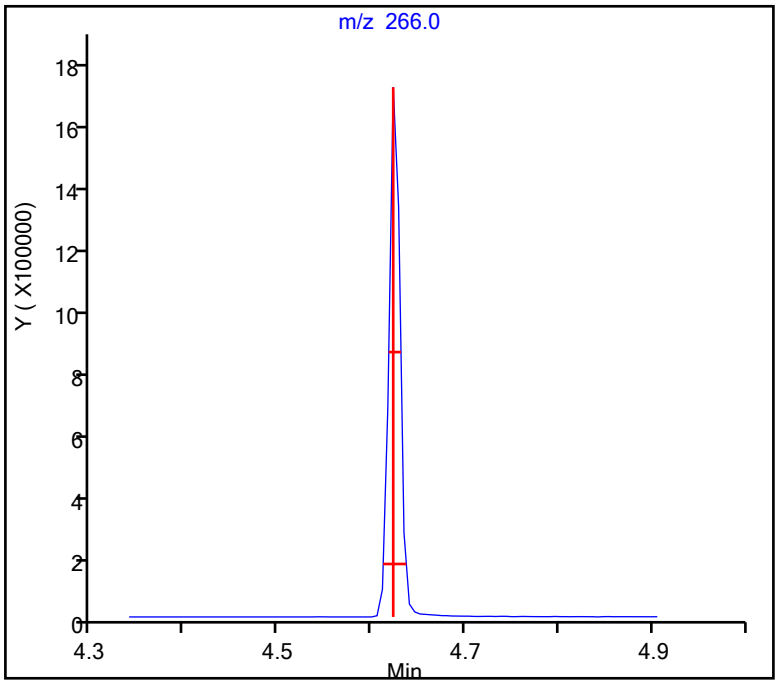
Data File: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0020.D
Injection Date: 05-Oct-2022 09:35:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

44 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.014 (min.)
Front Width = 0.011 (min.)

Tailing Factor = 1.27, Max. Tailing <= 2.00
Passed



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1400.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 30-Nov-2022 05:12:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 410-0072166-001
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 30-Nov-2022 09:37:52 Calib Date: 05-Oct-2022 11:42:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0026.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1608

First Level Reviewer: UJM0 Date: 30-Nov-2022 05:36:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
44 Pentachlorophenol_T	266	4.519	4.519	0.000	98	1411379	NR	NR	
45 DFTPP									
46 Benzidine_T	184	5.801	5.801	0.000	99	4263470	NR	NR	
47 4,4'-DDE	246	5.951	5.951	0.000	76	6816		NR	
48 4,4'-DDD	235	6.234	6.234	0.000	93	33805		NR	
49 4,4'-DDT	235	6.488	6.488	0.000	99	2589084	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

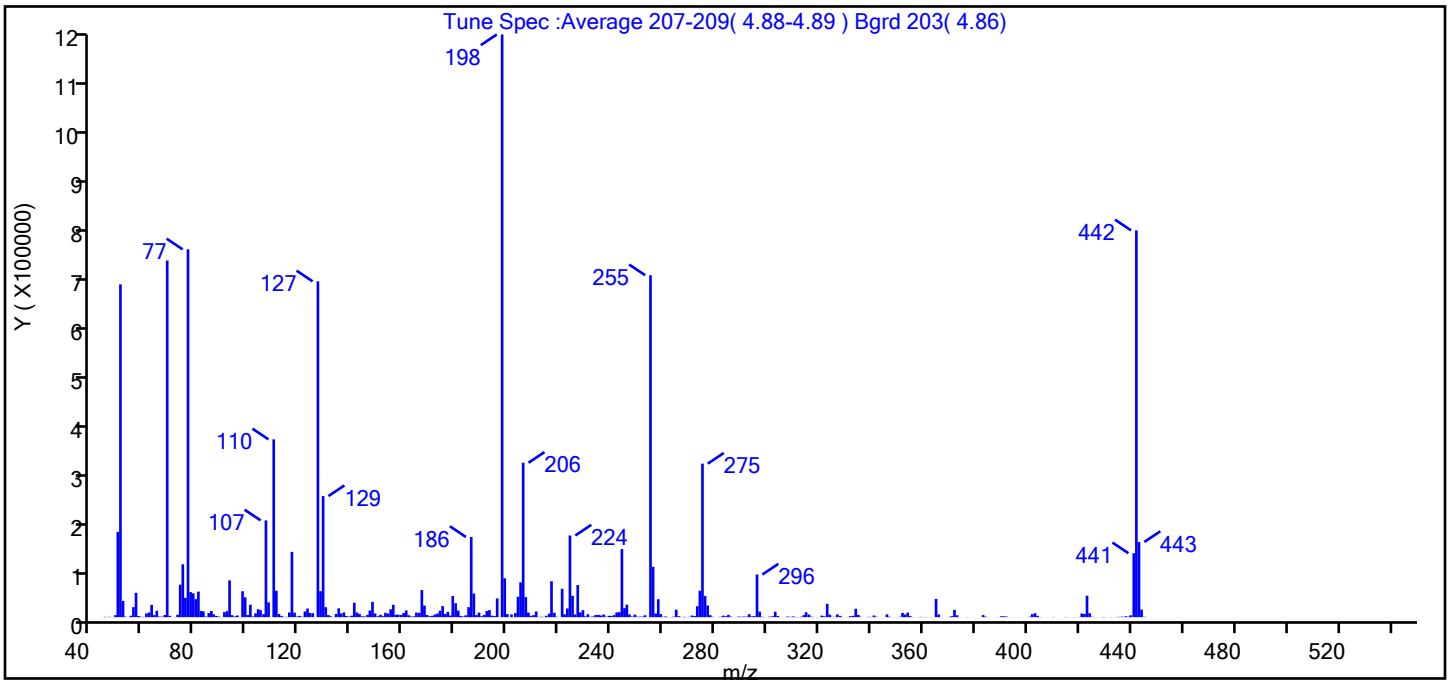
MSS_RVDFTPP_00011 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1400.D
Injection Date: 30-Nov-2022 05:12:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM
Tune Method: DFTPP Method 8270D, BP 198

45 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (150.6)
51	10-80% of the base peak	57.1
68	<2% of mass 69	0.4 (0.6)
69	Present	61.2
70	<2% of mass 69	0.2 (0.4)
127	10-80% of the base peak	57.6
197	<2% of mass 198	0.0
199	5-9% of mass 198	6.7
275	10-60% of the base peak	26.3
365	>1% of mass 198	3.1
441	present but <24% of mass 442	11.0 (16.5)
442	base peak, or >50% of 198	66.4
443	15-24% of mass 442	12.9 (19.4)

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1400.D\8270_SIM_HP23263.rslt\spectra
Injection Date: 30-Nov-2022 05:12:30
Spectrum: Tune Spec :Average 207-209(4.88-4.89) Bgrd 203(4.86)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 368

m/z	Y	m/z	Y	m/z	Y	m/z	Y
45.00	652	140.00	2708	235.00	4444	332.00	1965
46.00	205	141.00	27808	236.00	3151	333.00	2565
47.00	588	142.00	9006	237.00	5017	334.00	16129
48.00	368	143.00	6392	238.00	904	335.00	4284
49.00	3885	144.00	1534	239.00	2638	336.00	665
50.00	164736	145.00	1403	240.00	2412	339.00	568
51.00	642944	146.00	4307	241.00	3882	340.00	467
52.00	31400	147.00	12804	242.00	9174	341.00	3175
53.00	916	148.00	29488	243.00	9639	342.00	862
54.00	46	149.00	7172	244.00	131584	343.00	132
55.00	2743	150.00	1858	245.00	17440	344.00	54
56.00	19288	151.00	4496	246.00	24136	345.00	69
57.00	46976	152.00	1926	247.00	5146	346.00	5320
58.00	2159	153.00	8363	248.00	1171	347.00	910
59.00	762	154.00	6977	249.00	4971	348.00	164
60.00	548	155.00	15031	250.00	892	349.00	103
61.00	7135	156.00	23760	251.00	978	350.00	173
62.00	8880	157.00	4658	252.00	1055	351.00	717
63.00	23776	158.00	4829	253.00	3640	352.00	8134
64.00	3914	159.00	4296	255.00	660672	353.00	5098
65.00	12323	160.00	8110	256.00	97232	354.00	8728
66.00	1114	161.00	12991	257.00	7026	355.00	1902
67.00	922	162.00	3622	258.00	34640	356.00	235
68.00	4099	163.00	1343	259.00	5987	358.00	164
69.00	689088	164.00	1513	260.00	770	359.00	543
70.00	2572	165.00	8863	261.00	1242	360.00	200
72.00	339	166.00	8354	262.00	216	361.00	309
73.00	4661	167.00	52296	263.00	348	362.00	119
74.00	62752	168.00	22360	264.00	992	363.00	259
75.00	102120	169.00	4304	265.00	14380	365.00	35216
76.00	37296	170.00	1775	266.00	1850	366.00	5080
77.00	710656	171.00	2621	267.00	52	367.00	195
78.00	48408	172.00	4973	268.00	688	370.00	664

Report Date: 30-Nov-2022 09:37:52 Chrom Revision: 2.3 22-Nov-2022 16:59:54
Data File: \\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1400.D\8270_SIM_HP23263.rslt\spectra
Injection Date: 30-Nov-2022 05:12:30
Spectrum: Tune Spec :Average 207-209(4.88-4.89) Bgrd 203(4.86)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 368

m/z	Y	m/z	Y	m/z	Y	m/z	Y
79.00	45976	173.00	6826	269.00	215	371.00	1945
80.00	34816	174.00	12449	270.00	625	372.00	14109
81.00	49312	175.00	21328	271.00	3116	373.00	3551
82.00	11848	176.00	6200	272.00	2097	374.00	210
83.00	11227	177.00	10185	273.00	21080	377.00	342
84.00	1252	178.00	3131	274.00	51040	382.00	61
85.00	7770	179.00	40736	275.00	296640	383.00	3973
86.00	11859	180.00	26880	276.00	41008	384.00	1019
87.00	5372	181.00	12717	277.00	22520	385.00	335
88.00	2291	182.00	2423	278.00	3805	389.00	253
89.00	1020	183.00	1294	279.00	729	390.00	1809
90.00	331	184.00	3508	280.00	79	391.00	1610
91.00	9641	185.00	19352	281.00	79	392.00	1154
92.00	11612	186.00	154944	282.00	800	393.00	70
93.00	71000	187.00	45592	283.00	2819	395.00	132
94.00	3788	188.00	3882	284.00	1812	396.00	51
95.00	1525	189.00	8808	285.00	4422	397.00	274
96.00	3153	190.00	1760	286.00	1057	399.00	106
97.00	286	191.00	4465	288.00	278	401.00	825
98.00	50112	192.00	11749	289.00	1006	402.00	5768
99.00	38360	193.00	13523	290.00	787	403.00	7499
100.00	4119	194.00	2908	291.00	1144	404.00	2471
101.00	24032	195.00	2084	292.00	1055	405.00	344
102.00	1448	196.00	36216	293.00	5662	408.00	51
103.00	7224	198.00	1125888	294.00	1383	410.00	333
104.00	15260	199.00	75200	295.00	2087	415.00	395
105.00	13478	200.00	5929	296.00	82368	416.00	55
106.00	5915	202.00	5201	297.00	10685	417.00	112
107.00	186944	203.00	7795	298.00	834	418.00	139
108.00	28552	204.00	39440	299.00	222	419.00	173
110.00	343616	205.00	67168	301.00	1051	420.00	308
111.00	51016	206.00	298368	302.00	1631	421.00	7061
112.00	5933	207.00	38672	303.00	10535	422.00	6203
113.00	2130	208.00	8863	304.00	2238	423.00	41488

Report Date: 30-Nov-2022 09:37:52 Chrom Revision: 2.3 22-Nov-2022 16:59:54
Data File: \\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1400.D\8270_SIM_HP23263.rslt\spectra
Injection Date: 30-Nov-2022 05:12:30
Spectrum: Tune Spec :Average 207-209(4.88-4.89) Bgrd 203(4.86)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 368

m/z	Y	m/z	Y	m/z	Y	m/z	Y
114.00	590	209.00	2592	305.00	320	424.00	7554
115.00	513	210.00	3836	307.00	243	425.00	720
116.00	9049	211.00	10874	308.00	1136	426.00	207
117.00	126064	212.00	457	309.00	711	428.00	60
118.00	8689	213.00	677	310.00	1379	429.00	363
119.00	1195	214.00	549	311.00	319	430.00	248
120.00	2515	215.00	2570	312.00	292	432.00	82
121.00	907	216.00	6685	313.00	880	432.00	383
122.00	11052	217.00	69376	314.00	3846	433.00	188
123.00	16584	218.00	8493	315.00	9413	435.00	431
124.00	7951	219.00	884	316.00	4968	435.00	500
125.00	7678	221.00	54904	317.00	859	436.00	959
127.00	648896	222.00	5453	318.00	135	437.00	172
128.00	50360	223.00	16832	319.00	260	438.00	1712
129.00	233920	224.00	157760	320.00	168	439.00	946
130.00	19240	225.00	41272	321.00	2934	440.00	3631
131.00	4070	226.00	5137	322.00	1636	441.00	123504
132.00	1743	227.00	62040	323.00	25712	442.00	747392
133.00	299	228.00	9140	324.00	4787	443.00	145280
134.00	6280	229.00	13405	325.00	575	444.00	14495
135.00	16992	230.00	1606	326.00	630	445.00	747
136.00	7061	231.00	5604	327.00	5327	446.00	105
137.00	9165	232.00	934	328.00	2421	458.00	64
138.00	2297	233.00	1229	329.00	437	507.00	55
139.00	1208	234.00	4182	331.00	373	550.00	61

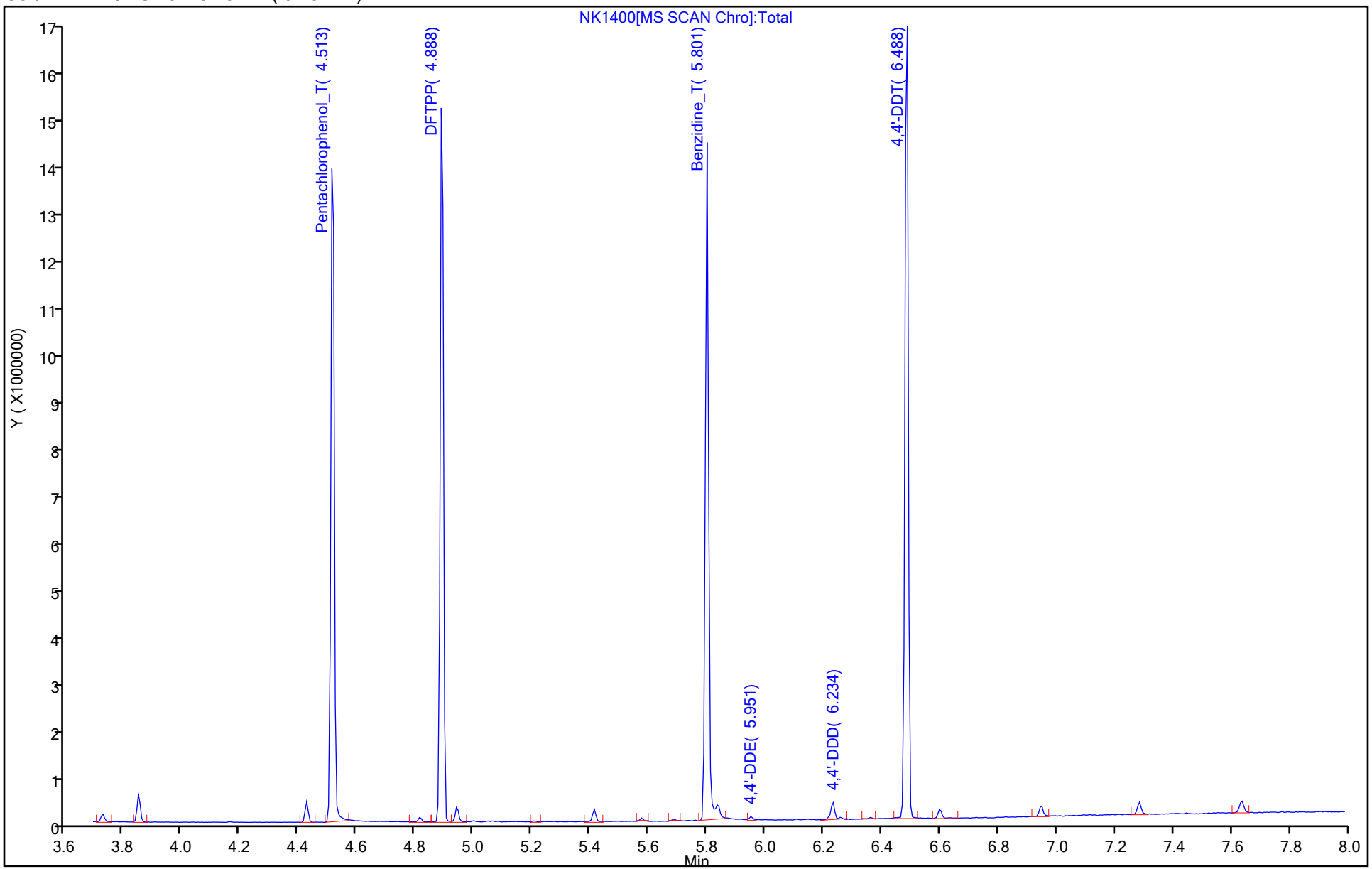
Report Date: 30-Nov-2022 09:37:52 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1400.D

Injection Date:	30-Nov-2022 05:12:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	DFTPP			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)

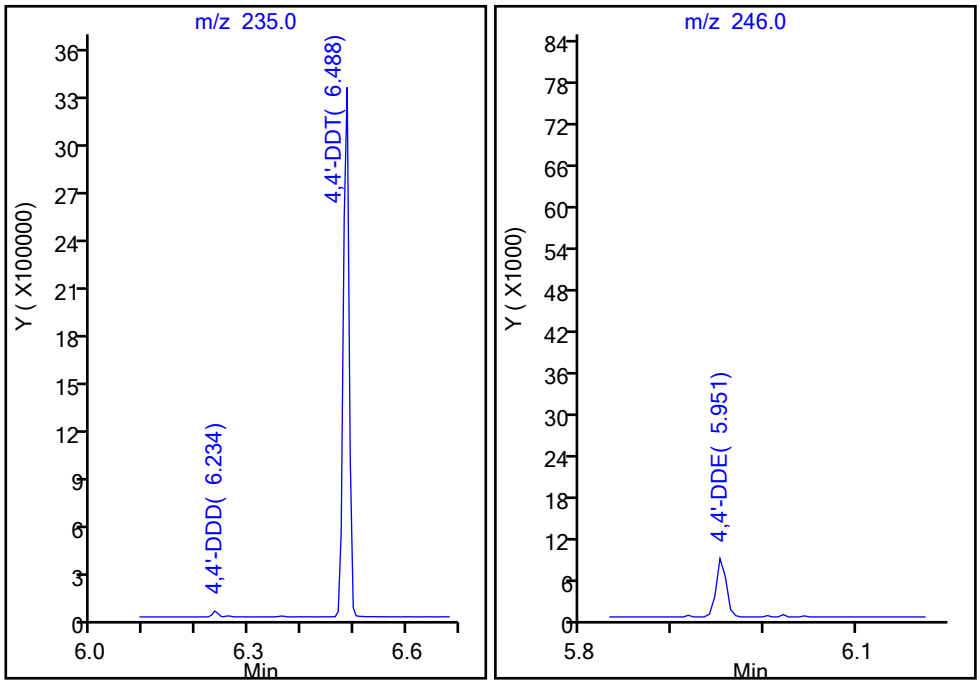


Breakdown Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1400.D
Injection Date: 30-Nov-2022 05:12:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

49 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

49 4,4'-DDT, Area = 2589084
47 4,4'-DDE, Area = 6816
48 4,4'-DDD, Area = 33805

%Breakdown: 1.54%, <= 20.00%
Passed

Peak Tailing Report

Eurofins Lancaster Laboratories Environment Testing, LLC

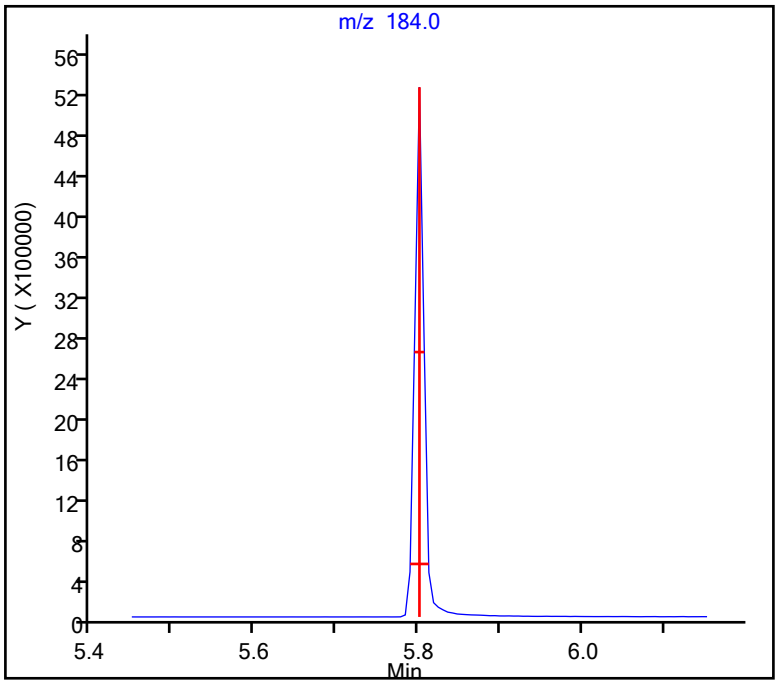
Data File: \\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1400.D
Injection Date: 30-Nov-2022 05:12:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

46 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.011 (min.)
Front Width = 0.011 (min.)

Tailing Factor = 1.00, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Environment Testing, LLC

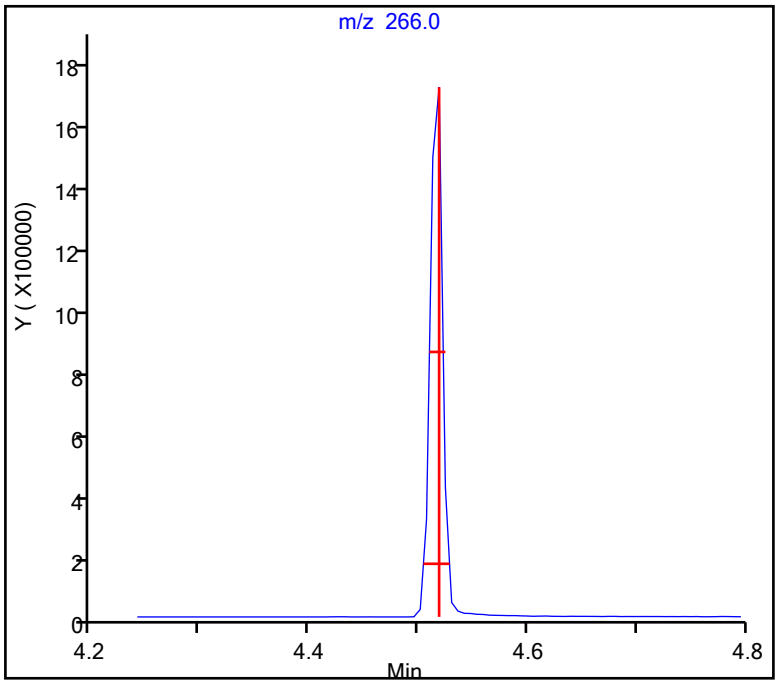
Data File: \\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1400.D
Injection Date: 30-Nov-2022 05:12:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

44 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.010 (min.)
Front Width = 0.014 (min.)

Tailing Factor = 0.71, Max. Tailing <= 2.00
Passed



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\NL0160.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 05-Dec-2022 05:04:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 410-0072499-001
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 05-Dec-2022 06:32:21 Calib Date: 05-Oct-2022 11:42:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0026.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1669

First Level Reviewer: UJM0 Date: 05-Dec-2022 06:32:21

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
44 Pentachlorophenol_T	266	4.507	4.507	0.000	98	1553782	NR	NR	
45 DFTPP									
46 Benzidine_T	184	5.795	5.795	0.000	99	5717516	NR	NR	
49 4,4'-DDT	235	6.476	6.476	0.000	98	3287250	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

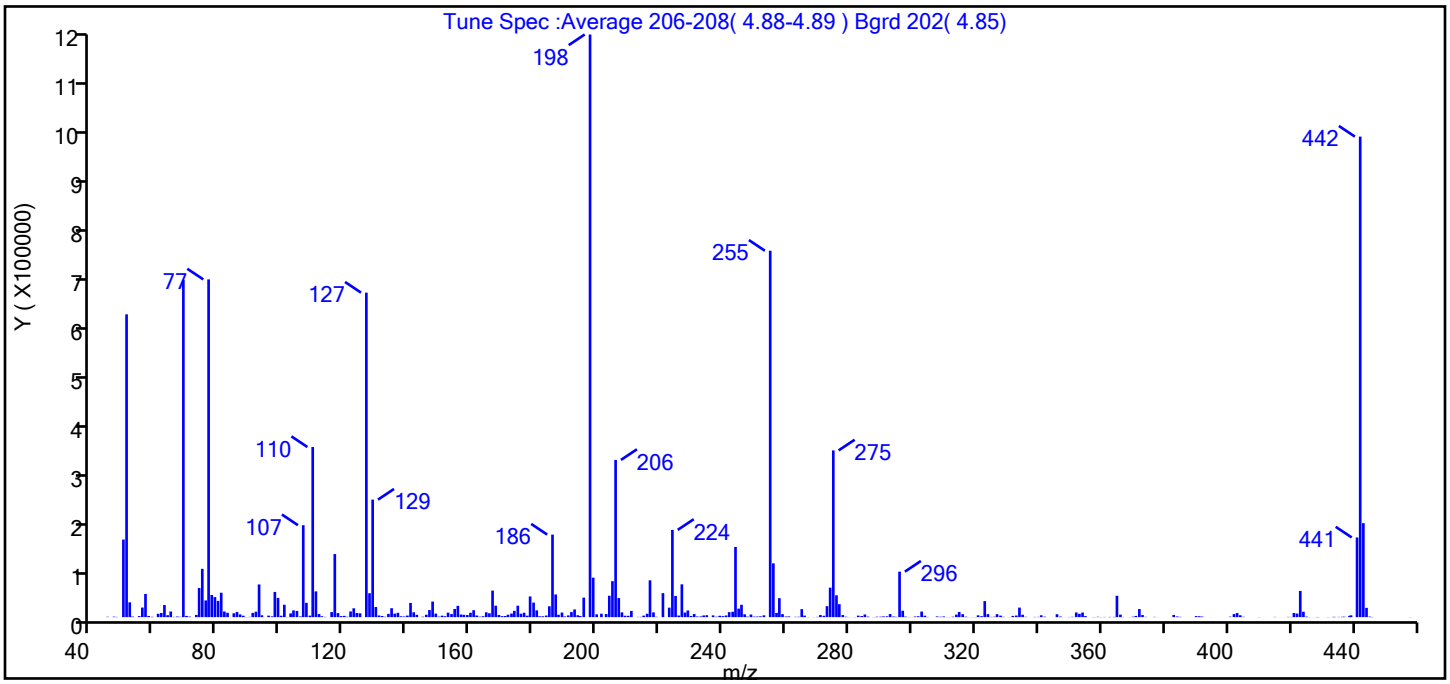
MSS_RVDFTPP_00011 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\NL0160.D
Injection Date: 05-Dec-2022 05:04:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM
Tune Method: DFTPP Method 8270D, BP 198

45 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (121.3)
51	10-80% of the base peak	52.0
68	<2% of mass 69	0.1 (0.1)
69	Present	57.9
70	<2% of mass 69	0.2 (0.4)
127	10-80% of the base peak	55.7
197	<2% of mass 198	0.0
199	5-9% of mass 198	6.8
275	10-60% of the base peak	28.6
365	>1% of mass 198	3.7
441	present but <24% of mass 442	13.7 (16.6)
442	base peak, or >50% of 198	82.5
443	15-24% of mass 442	16.1 (19.6)

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\NL0160.D\8270_SIM_HP23263.rslt\spectra
Injection Date: 05-Dec-2022 05:04:30
Spectrum: Tune Spec :Average 206-208(4.88-4.89) Bgrd 202(4.85)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 356

m/z	Y	m/z	Y	m/z	Y	m/z	Y
45.00	734	139.00	1289	234.00	3418	329.00	642
46.00	16	140.00	3195	235.00	3902	330.00	119
47.00	970	141.00	28712	237.00	3555	331.00	154
48.00	457	142.00	9856	238.00	849	332.00	2528
50.00	156672	143.00	4722	239.00	2776	333.00	3250
51.00	611456	145.00	934	240.00	2031	334.00	19256
52.00	29880	146.00	4908	241.00	3346	335.00	4833
53.00	1185	147.00	14342	242.00	10065	336.00	671
54.00	33	148.00	31464	243.00	10837	339.00	475
55.00	2134	149.00	7179	244.00	141632	340.00	477
56.00	19360	150.00	1066	245.00	17144	341.00	3741
57.00	46832	151.00	2948	246.00	25000	342.00	989
58.00	2406	152.00	1838	247.00	5733	343.00	96
59.00	772	153.00	9105	248.00	1077	346.00	5929
61.00	6837	154.00	6261	249.00	5283	347.00	1268
62.00	8316	155.00	16488	250.00	1090	348.00	124
63.00	24472	156.00	22880	251.00	1262	350.00	379
64.00	3952	157.00	5302	252.00	1652	351.00	626
65.00	11412	158.00	4722	253.00	3704	352.00	9444
66.00	539	159.00	4201	255.00	739904	353.00	6695
67.00	1260	160.00	8819	256.00	108624	354.00	9255
68.00	689	161.00	14018	257.00	8555	355.00	2104
69.00	680896	162.00	3351	258.00	38352	357.00	193
70.00	2491	163.00	1024	259.00	6048	358.00	306
71.00	1158	164.00	1868	260.00	1247	359.00	719
72.00	144	165.00	9758	261.00	1487	360.00	288
73.00	4508	166.00	7857	262.00	64	361.00	416
74.00	58888	167.00	53600	263.00	630	363.00	468
75.00	97536	168.00	23112	264.00	737	363.00	168
76.00	33728	169.00	4364	265.00	16194	364.00	546
77.00	681984	170.00	2042	266.00	3023	365.00	43160
78.00	44760	171.00	2292	267.00	267	366.00	5071
79.00	40536	172.00	4897	269.00	249	367.00	329

Report Date: 05-Dec-2022 06:32:22 Chrom Revision: 2.3 01-Dec-2022 08:01:02
Data File: \\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\NL0160.D\8270_SIM_HP23263.rslt\spectra
Injection Date: 05-Dec-2022 05:04:30
Spectrum: Tune Spec :Average 206-208(4.88-4.89) Bgrd 202(4.85)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 356

m/z	Y	m/z	Y	m/z	Y	m/z	Y
80.00	32872	173.00	7273	270.00	570	369.00	201
81.00	49312	174.00	12727	271.00	4253	370.00	935
82.00	11415	175.00	23096	272.00	2743	371.00	2437
83.00	8734	176.00	6894	273.00	22144	372.00	16297
84.00	10	177.00	8911	274.00	59464	373.00	4208
85.00	7832	178.00	2966	275.00	336704	374.00	579
86.00	10390	179.00	41800	276.00	44152	377.00	541
87.00	5503	180.00	29352	277.00	26176	378.00	107
88.00	2851	181.00	13687	278.00	4212	383.00	4339
89.00	317	182.00	1751	279.00	872	384.00	1333
90.00	572	183.00	1756	280.00	220	385.00	652
91.00	8592	184.00	3201	281.00	91	390.00	2147
92.00	11021	185.00	21912	282.00	289	391.00	1820
93.00	66048	186.00	166720	283.00	3023	392.00	1138
94.00	3745	187.00	45776	284.00	2239	395.00	131
96.00	3030	188.00	4733	285.00	5397	396.00	57
97.00	1590	189.00	9284	286.00	1145	397.00	106
98.00	50856	190.00	1401	288.00	290	399.00	56
99.00	38792	191.00	3485	289.00	919	401.00	906
100.00	2874	192.00	10307	290.00	928	402.00	6138
101.00	25032	193.00	15498	291.00	1521	403.00	8249
102.00	281	194.00	3857	292.00	1605	404.00	3750
103.00	7513	195.00	2207	293.00	6238	405.00	731
104.00	13595	196.00	39440	294.00	1282	410.00	297
105.00	12570	198.00	1176576	295.00	648	412.00	82
106.00	1431	199.00	79712	296.00	91880	415.00	488
107.00	185728	200.00	5666	297.00	12852	417.00	102
108.00	28864	202.00	6932	298.00	1093	418.00	106
109.00	3046	203.00	6275	299.00	360	419.00	524
110.00	343552	204.00	43216	300.00	144	420.00	393
111.00	52048	205.00	72688	301.00	1238	421.00	8419
112.00	6231	206.00	317440	302.00	1811	422.00	7288
113.00	1833	207.00	38544	303.00	11333	423.00	52952
114.00	555	208.00	9600	304.00	2877	424.00	10926

Report Date: 05-Dec-2022 06:32:22 Chrom Revision: 2.3 01-Dec-2022 08:01:02
Data File: \\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\NL0160.D\8270_SIM_HP23263.rslt\spectra
Injection Date: 05-Dec-2022 05:04:30
Spectrum: Tune Spec :Average 206-208(4.88-4.89) Bgrd 202(4.85)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 356

m/z	Y	m/z	Y	m/z	Y	m/z	Y
116.00	10203	209.00	2822	305.00	448	425.00	1083
117.00	127384	210.00	2758	308.00	1473	426.00	284
118.00	8230	211.00	12586	309.00	813	427.00	138
119.00	2133	213.00	482	310.00	1406	428.00	318
120.00	2615	214.00	597	311.00	162	429.00	300
121.00	813	215.00	3029	312.00	258	430.00	54
122.00	11504	216.00	6842	313.00	886	431.00	88
123.00	17848	217.00	74304	314.00	5052	432.00	310
124.00	8367	218.00	9621	315.00	10450	433.00	513
125.00	7787	219.00	676	316.00	6053	434.00	491
127.00	655296	221.00	48536	317.00	965	435.00	540
128.00	48304	223.00	19144	318.00	139	436.00	745
129.00	237312	224.00	176192	319.00	217	437.00	856
130.00	20520	225.00	42824	320.00	336	439.00	2591
131.00	3350	226.00	3280	321.00	3665	439.00	3638
132.00	2317	227.00	66296	322.00	1929	441.00	160896
133.00	726	228.00	9264	323.00	32408	442.00	970368
134.00	6590	229.00	13462	324.00	6124	443.00	189824
135.00	18056	230.00	2388	325.00	494	444.00	18736
136.00	7046	231.00	6304	326.00	877	445.00	1069
137.00	8757	232.00	1317	327.00	6039	446.00	416
138.00	1747	233.00	1425	328.00	3078	458.00	298

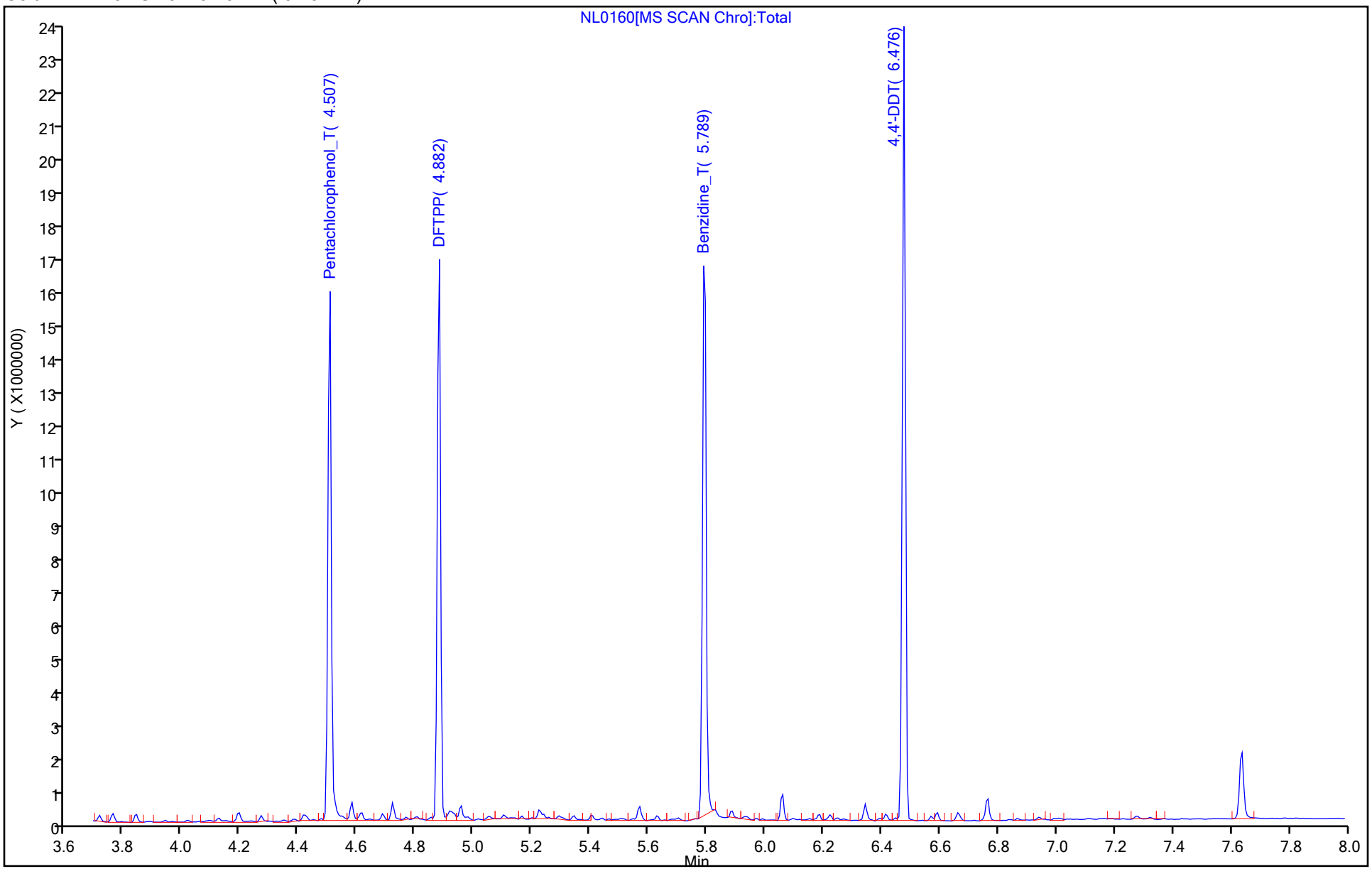
Report Date: 05-Dec-2022 06:32:22 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\NL0160.D

Injection Date:	05-Dec-2022 05:04:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	DFTPP			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Breakdown Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\NL0160.D				
Injection Date:	05-Dec-2022 05:04:30	Instrument ID:	HP23263		
Lims ID:	DFTPP				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

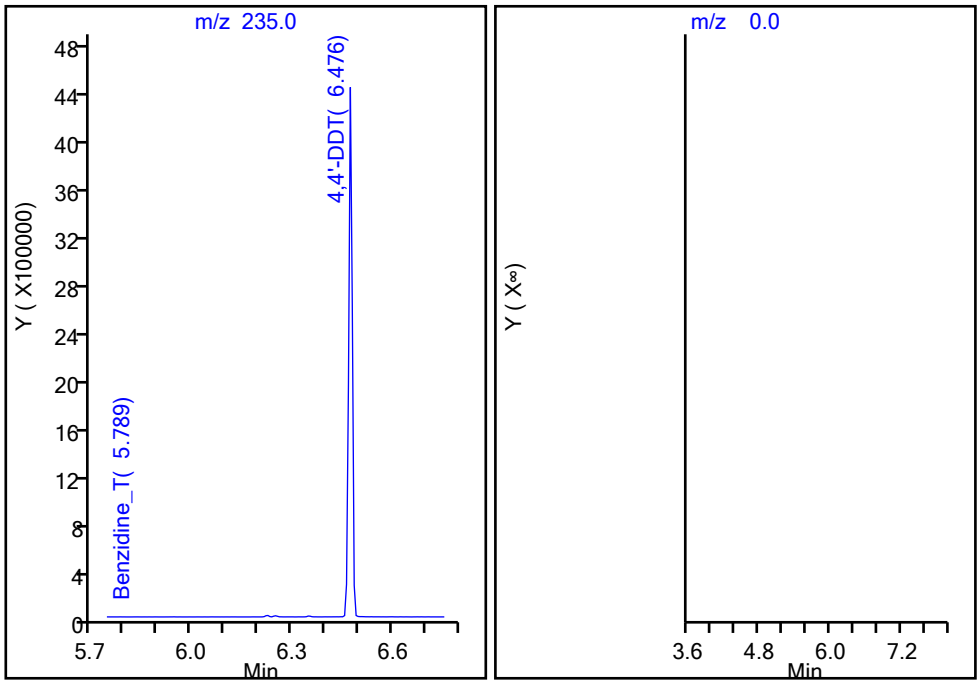
49 4,4'-DDT, Detector: MS SCAN

SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

49 4,4'-DDT, Area = 3287250
47 4,4'-DDE, Area = 0
48 4,4'-DDD, Area = 0

%Breakdown: 0.00%, <= 20.00%
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Environment Testing, LLC

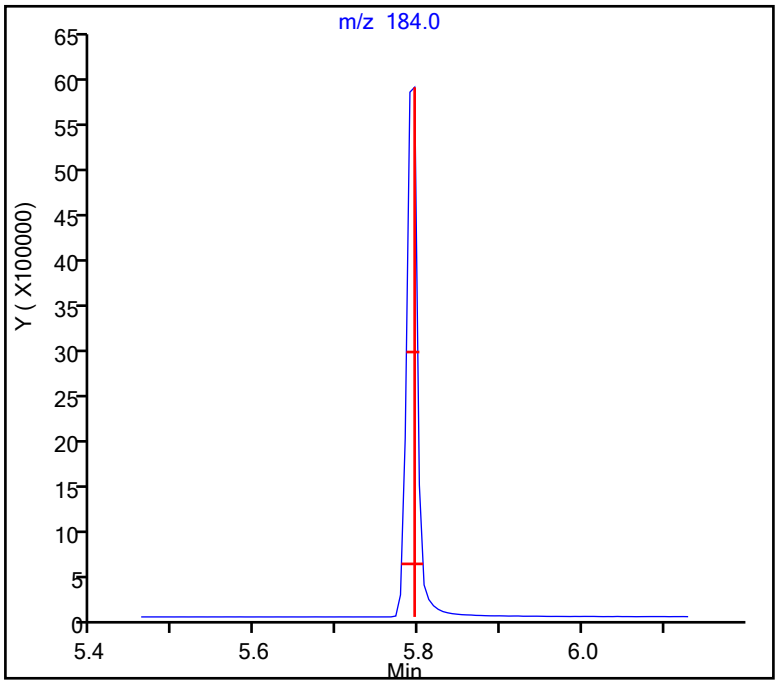
Data File: \\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\NL0160.D
Injection Date: 05-Dec-2022 05:04:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

46 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.010 (min.)
Front Width = 0.016 (min.)

Tailing Factor = 0.63, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Environment Testing, LLC

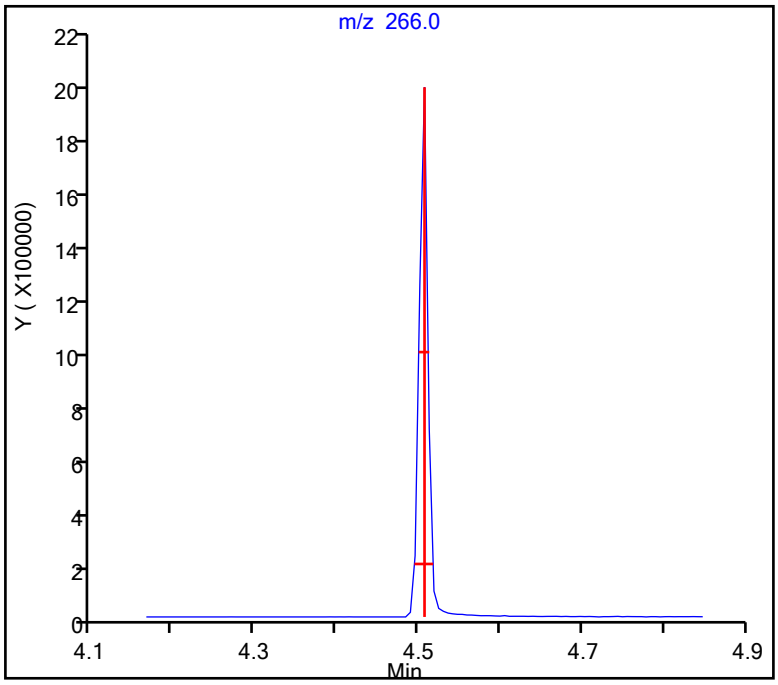
Data File: \\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\NL0160.D
Injection Date: 05-Dec-2022 05:04:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

44 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.011 (min.)
Front Width = 0.012 (min.)

Tailing Factor = 0.92, Max. Tailing <= 2.00
Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-106360-1

SDG No.:

Client Sample ID:
Lab Sample ID: MB 410-320750/1-A

Matrix: Water
Lab File ID: NK1402.D

Analysis Method: 8270D SIM
Date Collected:

Extract. Method: 3510C
Date Extracted: 11/23/2022 17:30

Sample wt/vol: 250(mL)
Date Analyzed: 11/30/2022 06:03

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 321961
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.30	0.10
90-12-0	1-Methylnaphthalene	ND		0.050	0.020
91-57-6	2-Methylnaphthalene	ND		0.050	0.020
83-32-9	Acenaphthene	ND		0.050	0.010
208-96-8	Acenaphthylene	ND		0.050	0.010
120-12-7	Anthracene	ND		0.050	0.010
56-55-3	Benzo[a]anthracene	ND		0.050	0.010
50-32-8	Benzo[a]pyrene	ND		0.050	0.010
205-99-2	Benzo[b]fluoranthene	ND		0.050	0.010
191-24-2	Benzo[g,h,i]perylene	ND		0.050	0.010
207-08-9	Benzo[k]fluoranthene	ND		0.050	0.010
111-44-4	Bis(2-chloroethyl)ether	ND		0.050	0.020
117-81-7	Bis(2-ethylhexyl) phthalate	0.0618	J	1.0	0.050
85-68-7	Butylbenzylphthalate	ND		1.0	0.050
218-01-9	Chrysene	ND		0.050	0.010
53-70-3	Dibenz(a,h)anthracene	ND		0.050	0.020
132-64-9	Dibenzofuran	ND		0.050	0.010
84-66-2	Diethylphthalate	ND		1.0	0.050
131-11-3	Dimethylphthalate	ND		1.0	0.050
84-74-2	Di-n-butyl phthalate	0.188	J	1.0	0.050
117-84-0	Di-n-octyl phthalate	ND		1.0	0.050
206-44-0	Fluoranthene	ND		0.050	0.010
86-73-7	Fluorene	ND		0.050	0.010
118-74-1	Hexachlorobenzene	ND		0.050	0.020
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.050	0.020
91-20-3	Naphthalene	ND		0.070	0.030
62-75-9	N-Nitrosodimethylamine	ND		0.050	0.020
85-01-8	Phenanthrene	ND		0.070	0.030
129-00-0	Pyrene	ND		0.050	0.010

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-106360-1

SDG No.:

Client Sample ID:
Lab Sample ID: MB 410-320750/1-A

Matrix: Water
Lab File ID: NK1402.D

Analysis Method: 8270D SIM
Date Collected:

Extract. Method: 3510C
Date Extracted: 11/23/2022 17:30

Sample wt/vol: 250(mL)
Date Analyzed: 11/30/2022 06:03

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 321961
Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
38072-94-5	1-Methylnaphthalene-d10 (Surr)	79		36-111
63466-71-7	Benzo(a)pyrene-d12 (Surr)	84		10-110
93951-69-0	Fluoranthene-d10 (Surr)	76		47-128

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1402.D
Lims ID: MB 410-320750/1-A
Client ID:
Sample Type: MB
Inject. Date: 30-Nov-2022 06:03:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: MB 410-320750/1-A
Misc. Info.: 410-0072166-003
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 01-Dec-2022 04:31:08 Calib Date: 05-Oct-2022 11:42:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0026.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: UJM0 Date: 30-Nov-2022 09:37:51

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	4.568	4.568	0.000	94	41105	0.2500	0.2500	
* 5 Naphthalene-d8	136	5.768	5.768	0.000	100	139455	0.2500	0.2500	
$ 9 1-Methylnaphthalene-d10	152	6.505	6.522	-0.003	100	50908	0.2500	0.1985	
* 13 Acenaphthene-d10	164	7.437	7.439	-0.002	86	58293	0.2500	0.2500	
* 20 Phenanthrene-d10	188	8.854	8.849	0.005	100	78666	0.2500	0.2500	
23 Di-n-butyl phthalate	149	9.423	9.427	0.004	100	12802		0.0469	
$ 24 Fluoranthene-d10 (Surr)	212	9.987	10.008	-0.002	99	54513	0.2500	0.1901	
* 29 Chrysene-d12	240	11.521	11.517	0.004	82	42552	0.2500	0.2500	
31 Bis(2-ethylhexyl) phthalate	149	11.582	11.578	0.004	95	1485		0.0154	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.361	13.365	-0.004	99	32816	0.2500	0.2095	
* 38 Perylene-d12	264	13.484	13.480	0.004	96	40806	0.2500	0.2500	

QC Flag Legend
Processing Flags

Reagents:
MSS_RVSIM_IS_00032 Amount Added: 10.00 Units: uL Run Reagent

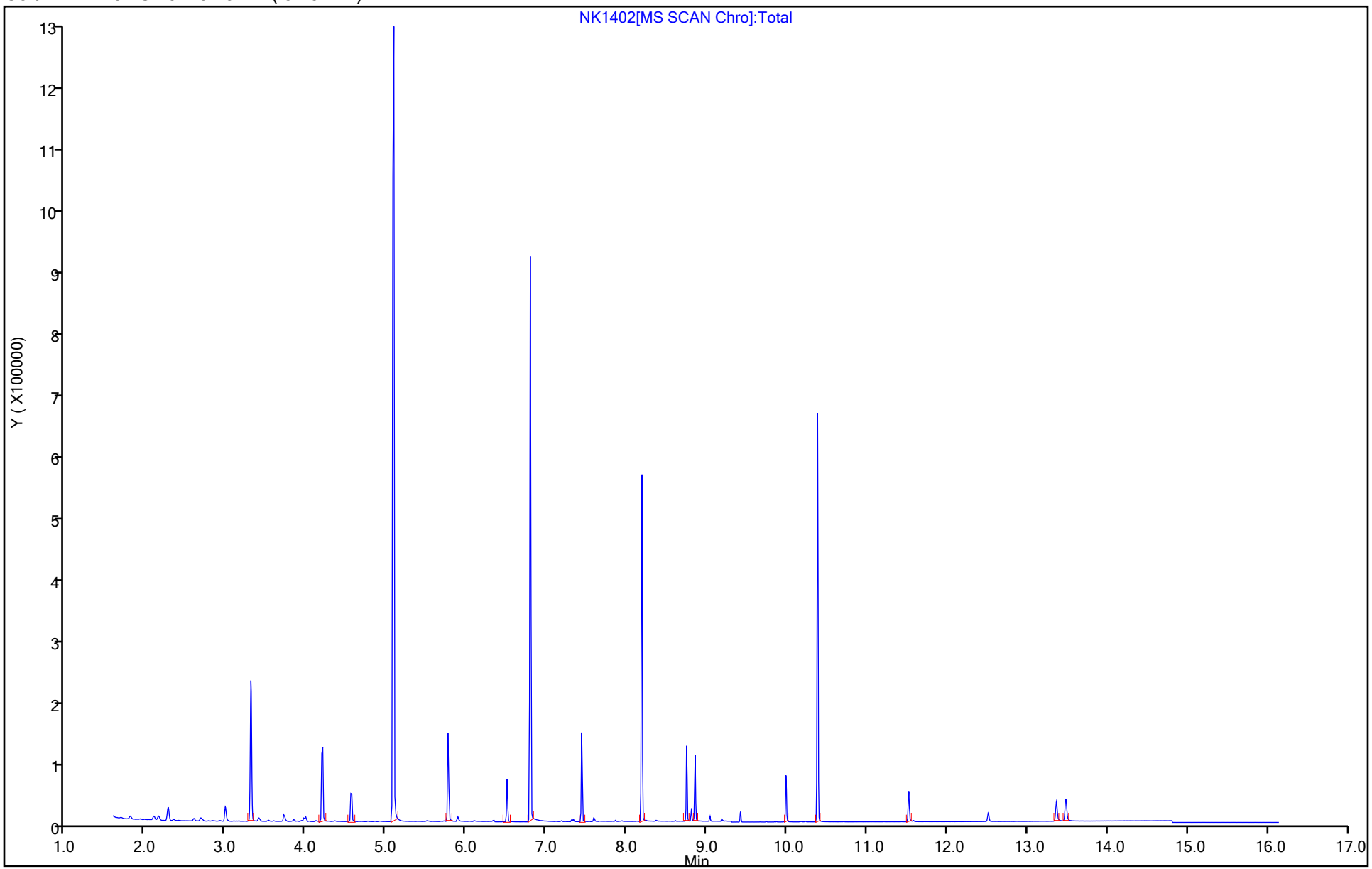
Report Date: 01-Dec-2022 04:31:44 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1402.D

Injection Date:	30-Nov-2022 06:03:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	MB 410-320750/1-A			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1402.D				
Lims ID:	MB 410-320750/1-A				
Client ID:					
Sample Type:	MB				
Inject. Date:	30-Nov-2022 06:03:30	ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	MB 410-320750/1-A				
Misc. Info.:	410-0072166-003				
Operator ID:	jmg00346	Instrument ID:	HP23263		
Method:	\\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\8270_SIM_HP23263.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	01-Dec-2022 04:31:08	Calib Date:	05-Oct-2022 11:42:30		
Integrator:	Falcon	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0026.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1611				

First Level Reviewer: UJM0 Date: 30-Nov-2022 09:37:51

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1-Methylnaphthalene-d10	0.2500	0.1985	79.38
$ 24 Fluoranthene-d10 (Surr)	0.2500	0.1901	76.04
$ 36 Benzo(a)pyrene-d12 (Surr)	0.2500	0.2095	83.79

Report Date: 01-Dec-2022 04:31:44 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1402.D

Injection Date: 30-Nov-2022 06:03:30 Instrument ID: HP23263

Lims ID: MB 410-320750/1-A

Client ID:

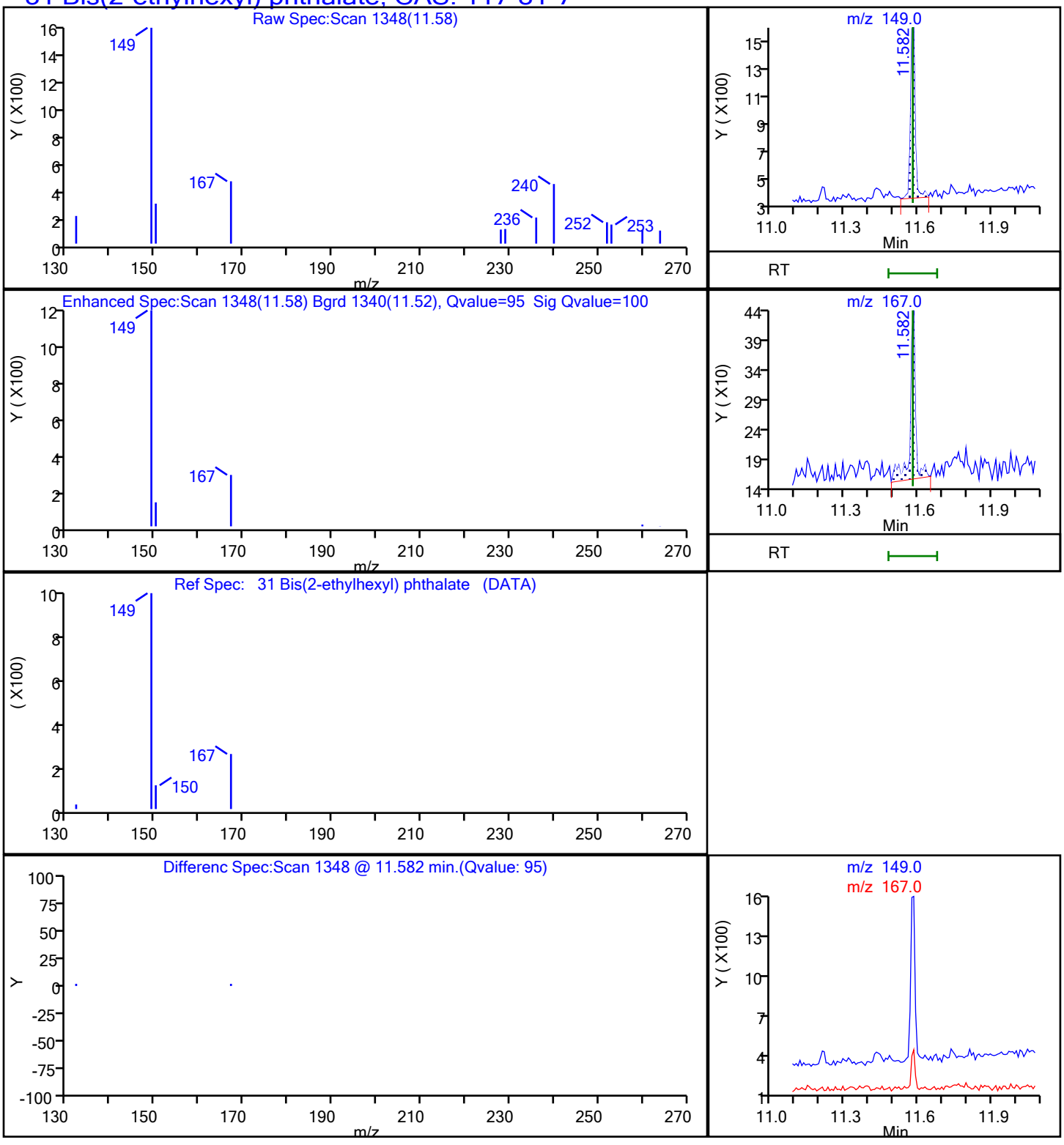
Operator ID: jmg00346 ALS Bottle#: 3 Worklist Smp#: 3

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

31 Bis(2-ethylhexyl) phthalate, CAS: 117-81-7



Report Date: 01-Dec-2022 04:31:44 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1402.D

Injection Date: 30-Nov-2022 06:03:30 Instrument ID: HP23263

Lims ID: MB 410-320750/1-A

Client ID:

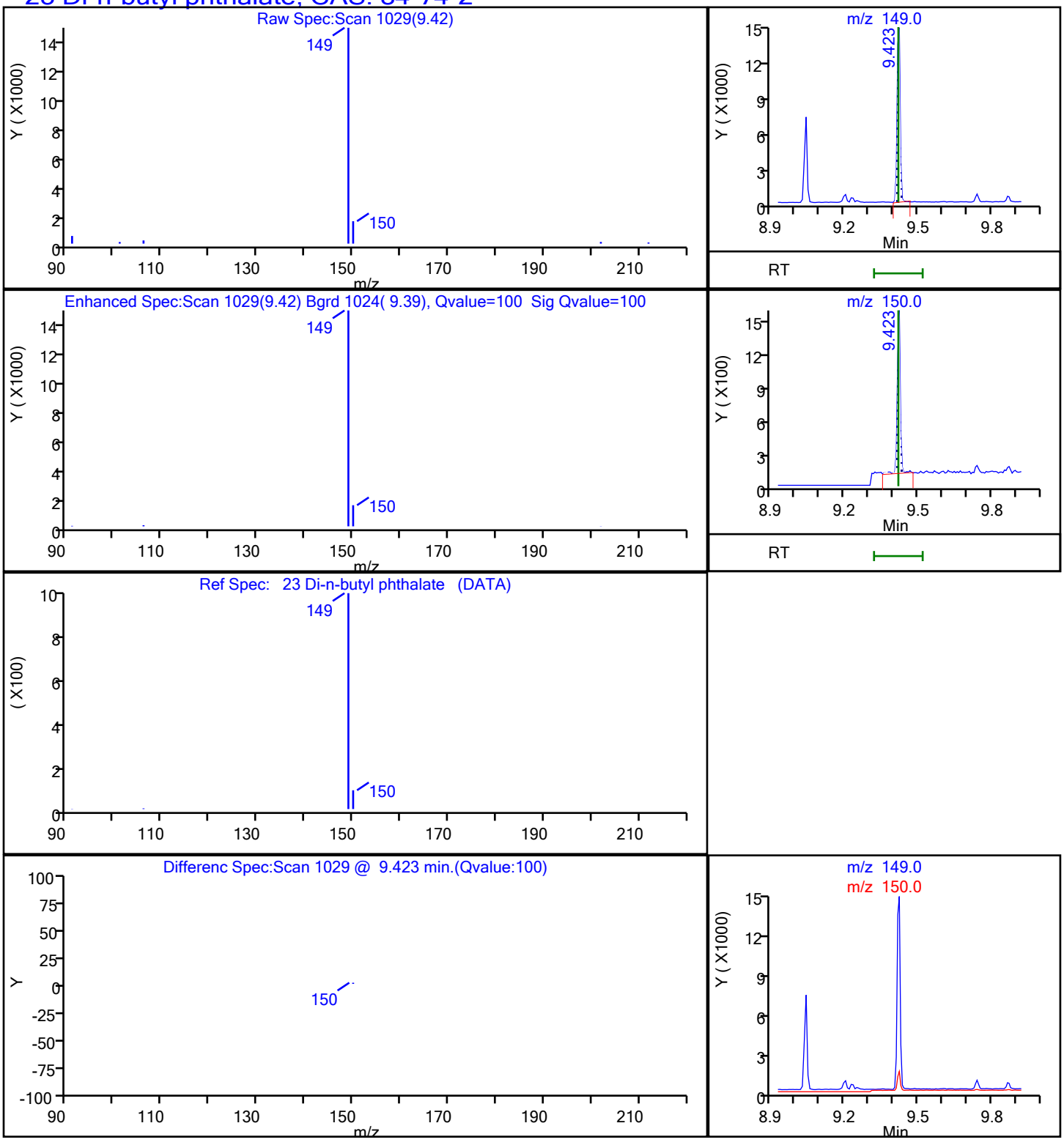
Operator ID: jmg00346 ALS Bottle#: 3 Worklist Smp#: 3

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

23 Di-n-butyl phthalate, CAS: 84-74-2



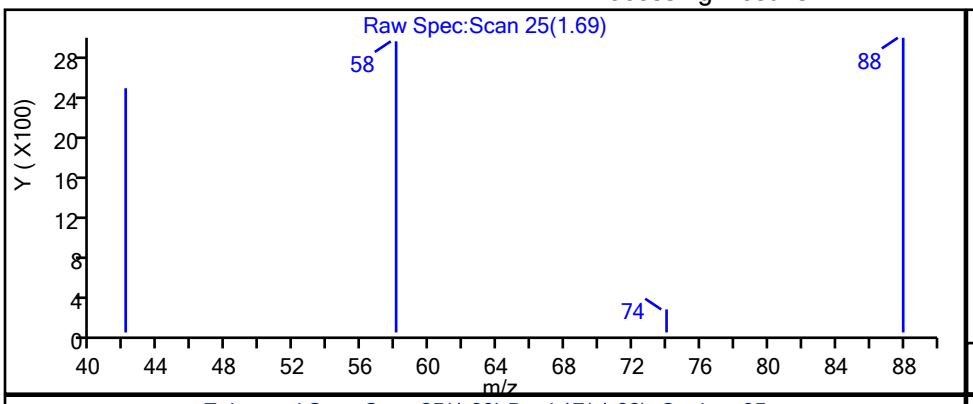
User Disabled Compound Report

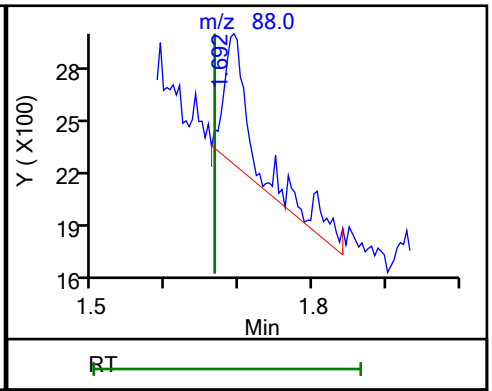
Eurofins Lancaster Laboratories Environment Testing, LLC

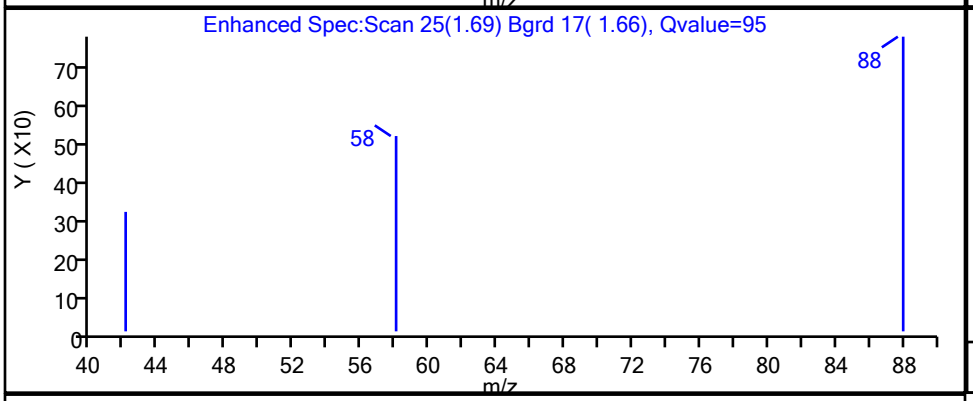
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1402.D				
Injection Date:	30-Nov-2022 06:03:30	Instrument ID:	HP23263		
Lims ID:	MB 410-320750/1-A				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

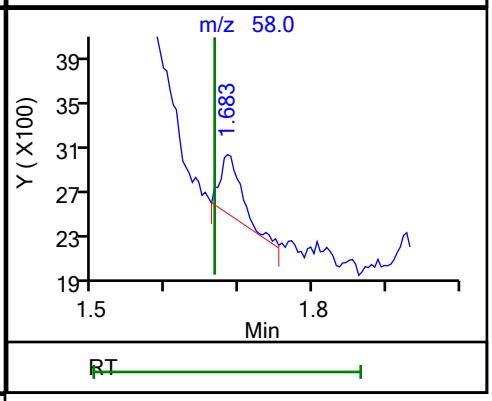
1 1,4-Dioxane, CAS: 123-91-1

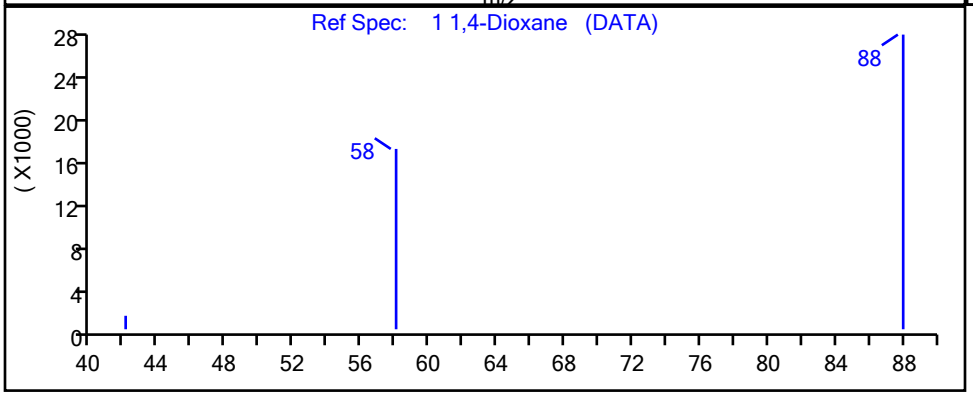
Processing Results











RT	Mass	Response	Amount
1.69	88.00	1931	0.019801
1.68	58.00	1024	

Reviewer: UJM0, 01-Dec-2022 04:17:18

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

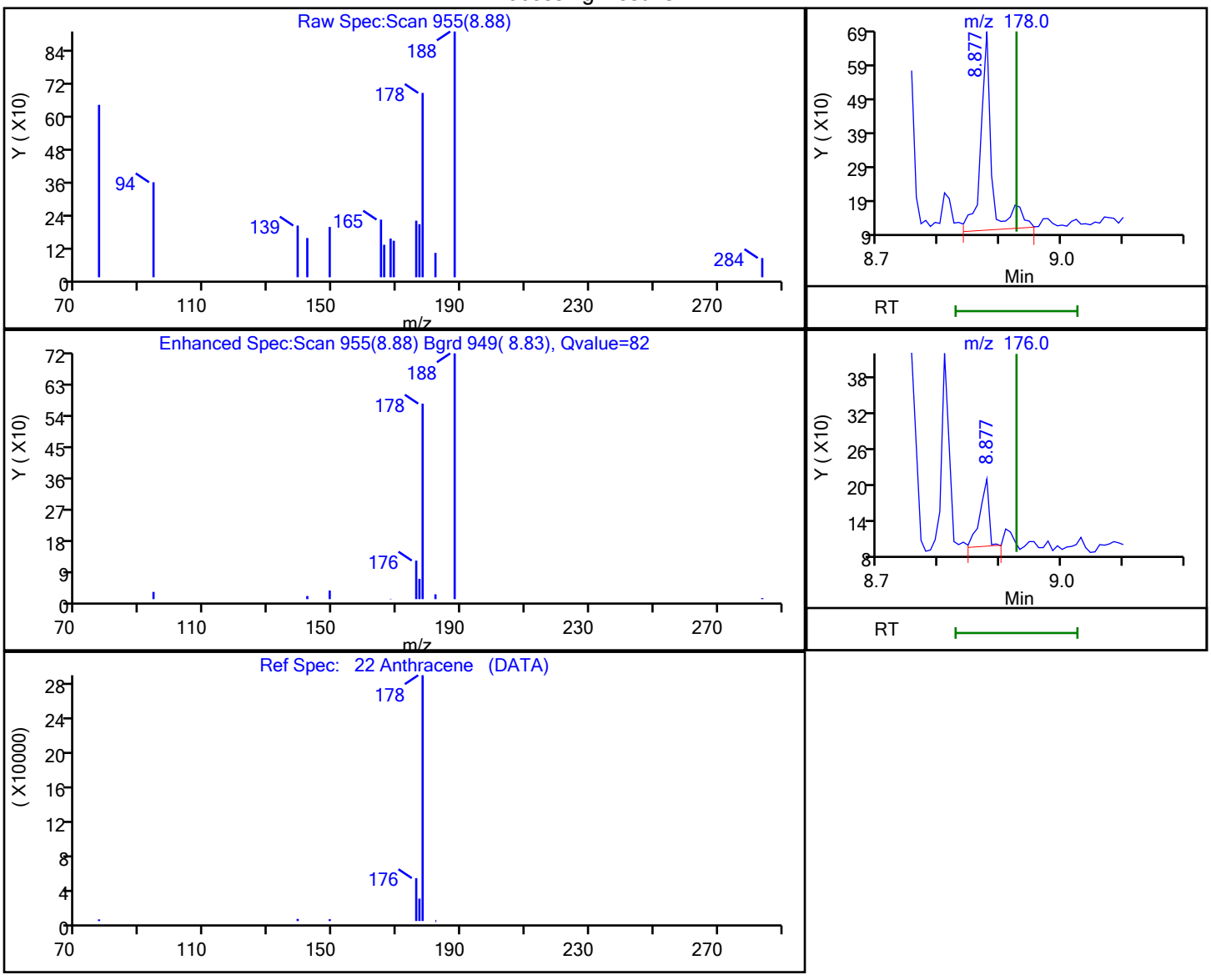
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1402.D				
Injection Date:	30-Nov-2022 06:03:30	Instrument ID:	HP23263		
Lims ID:	MB 410-320750/1-A				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

22 Anthracene, CAS: 120-12-7

Processing Results



RT	Mass	Response	Amount
8.88	178.00	710	0.002057
8.88	176.00	116	

Reviewer: UJM0, 01-Dec-2022 04:17:26

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

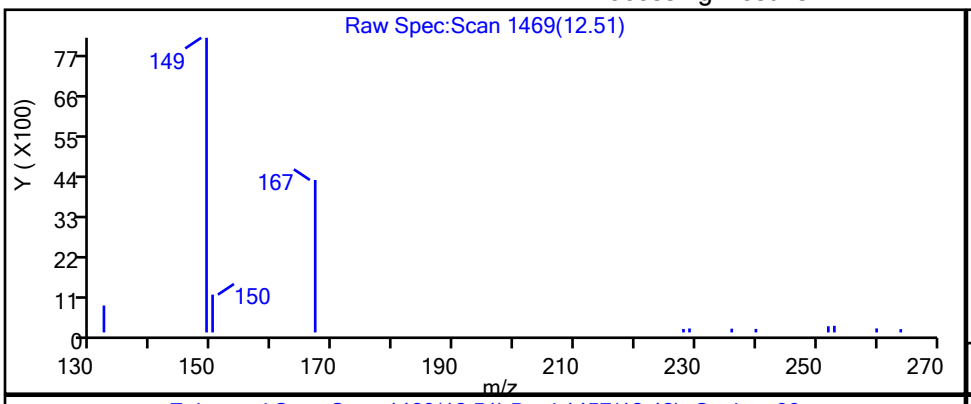
User Disabled Compound Report

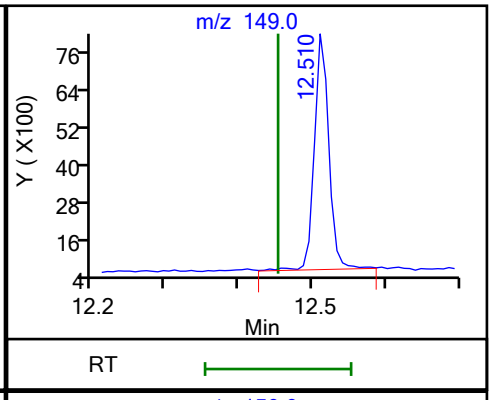
Eurofins Lancaster Laboratories Environment Testing, LLC

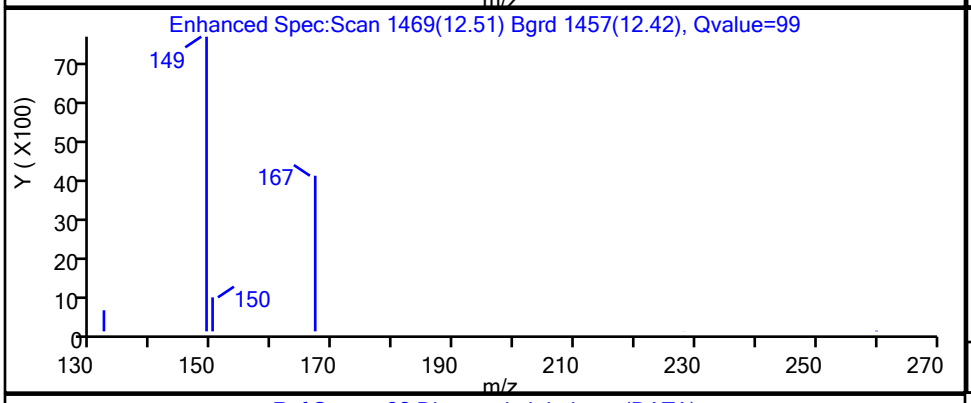
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1402.D				
Injection Date:	30-Nov-2022 06:03:30	Instrument ID:	HP23263		
Lims ID:	MB 410-320750/1-A				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

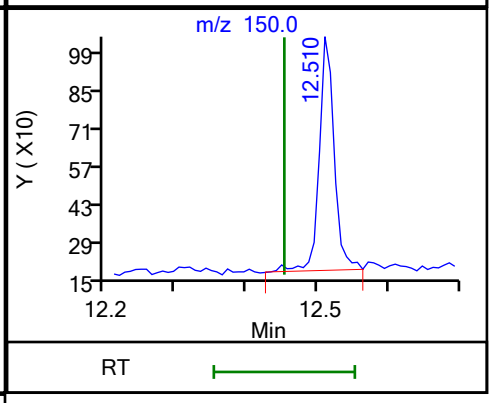
32 Di-n-octyl phthalate, CAS: 117-84-0

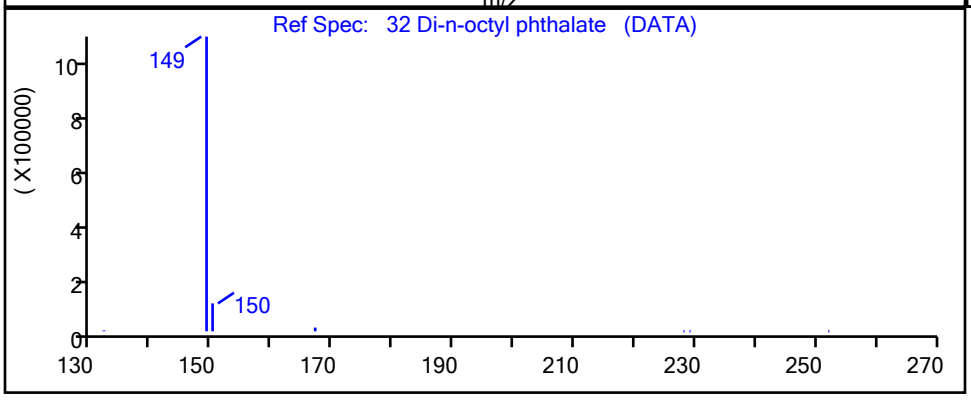
Processing Results











RT	Mass	Response	Amount
12.51	149.00	10362	0.063997
12.51	150.00	1298	

Reviewer: UJM0, 01-Dec-2022 04:17:38

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-106360-1

SDG No.:

Client Sample ID:
Lab Sample ID: MB 410-323309/1-A

Matrix: Water
Lab File ID: NL0164.D

Analysis Method: 8270D SIM
Date Collected:

Extract. Method: 3510C
Date Extracted: 12/03/2022 03:22

Sample wt/vol: 250(mL)
Date Analyzed: 12/05/2022 06:30

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 323522
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.30	0.10
90-12-0	1-Methylnaphthalene	ND		0.050	0.020
91-57-6	2-Methylnaphthalene	ND		0.050	0.020
83-32-9	Acenaphthene	ND		0.050	0.010
208-96-8	Acenaphthylene	ND		0.050	0.010
120-12-7	Anthracene	ND		0.050	0.010
56-55-3	Benzo[a]anthracene	ND		0.050	0.010
50-32-8	Benzo[a]pyrene	ND		0.050	0.010
205-99-2	Benzo[b]fluoranthene	ND		0.050	0.010
191-24-2	Benzo[g,h,i]perylene	ND		0.050	0.010
207-08-9	Benzo[k]fluoranthene	ND		0.050	0.010
111-44-4	Bis(2-chloroethyl)ether	ND		0.050	0.020
117-81-7	Bis(2-ethylhexyl) phthalate	0.317	J	1.0	0.050
85-68-7	Butylbenzylphthalate	ND		1.0	0.050
218-01-9	Chrysene	ND		0.050	0.010
53-70-3	Dibenz(a,h)anthracene	ND		0.050	0.020
132-64-9	Dibenzofuran	ND		0.050	0.010
84-66-2	Diethylphthalate	ND		1.0	0.050
131-11-3	Dimethylphthalate	ND		1.0	0.050
84-74-2	Di-n-butyl phthalate	3.21		1.0	0.050
117-84-0	Di-n-octyl phthalate	ND		1.0	0.050
206-44-0	Fluoranthene	ND		0.050	0.010
86-73-7	Fluorene	ND		0.050	0.010
118-74-1	Hexachlorobenzene	ND		0.050	0.020
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.050	0.020
91-20-3	Naphthalene	ND		0.070	0.030
62-75-9	N-Nitrosodimethylamine	ND		0.050	0.020
85-01-8	Phenanthrene	ND		0.070	0.030
129-00-0	Pyrene	ND		0.050	0.010

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-106360-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-323309/1-A

Matrix: Water Lab File ID: NL0164.D

Analysis Method: 8270D SIM Date Collected:

Extract. Method: 3510C Date Extracted: 12/03/2022 03:22

Sample wt/vol: 250(mL) Date Analyzed: 12/05/2022 06:30

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor: Level: (low/med) Low

Analysis Batch No.: 323522 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
38072-94-5	1-Methylnaphthalene-d10 (Surr)	57		36-111
63466-71-7	Benzo(a)pyrene-d12 (Surr)	66		10-110
93951-69-0	Fluoranthene-d10 (Surr)	60		47-128

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\NL0164.D
Lims ID: MB 410-323309/1-A
Client ID:
Sample Type: MB
Inject. Date: 05-Dec-2022 06:30:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: MB 410-323309/1-A
Misc. Info.: 410-0072499-005
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 05-Dec-2022 16:00:04 Calib Date: 05-Oct-2022 11:42:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0026.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1618

First Level Reviewer: UJM0 Date: 05-Dec-2022 07:04:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	4.556	4.556	0.000	99	40792	0.2500	0.2500	
* 5 Naphthalene-d8	136	5.768	5.768	0.000	100	135599	0.2500	0.2500	
$ 9 1-Methylnaphthalene-d10	152	6.508	6.505	0.003	99	35333	0.2500	0.1417	
* 13 Acenaphthene-d10	164	7.439	7.437	0.002	98	56261	0.2500	0.2500	
16 Diethyl phthalate	149	7.853	7.853	-0.005	88	2716		0.0111	
* 20 Phenanthrene-d10	188	8.849	8.854	-0.005	100	83655	0.2500	0.2500	
23 Di-n-butyl phthalate	149	9.419	9.411	0.003	100	233182		0.8030	
$ 24 Fluoranthene-d10 (Surr)	212	9.989	9.981	0.002	97	45435	0.2500	0.1490	
* 29 Chrysene-d12	240	11.517	11.513	0.004	82	43669	0.2500	0.2500	
31 Bis(2-ethylhexyl) phthalate	149	11.570	11.578	-0.004	97	7812		0.0791	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.357	13.358	-0.004	98	25324	0.2500	0.1653	
* 38 Perylene-d12	264	13.473	13.476	-0.003	99	39915	0.2500	0.2500	

QC Flag Legend

Processing Flags

Reagents:

MSS_RVSIM_IS_00032 Amount Added: 10.00 Units: uL Run Reagent

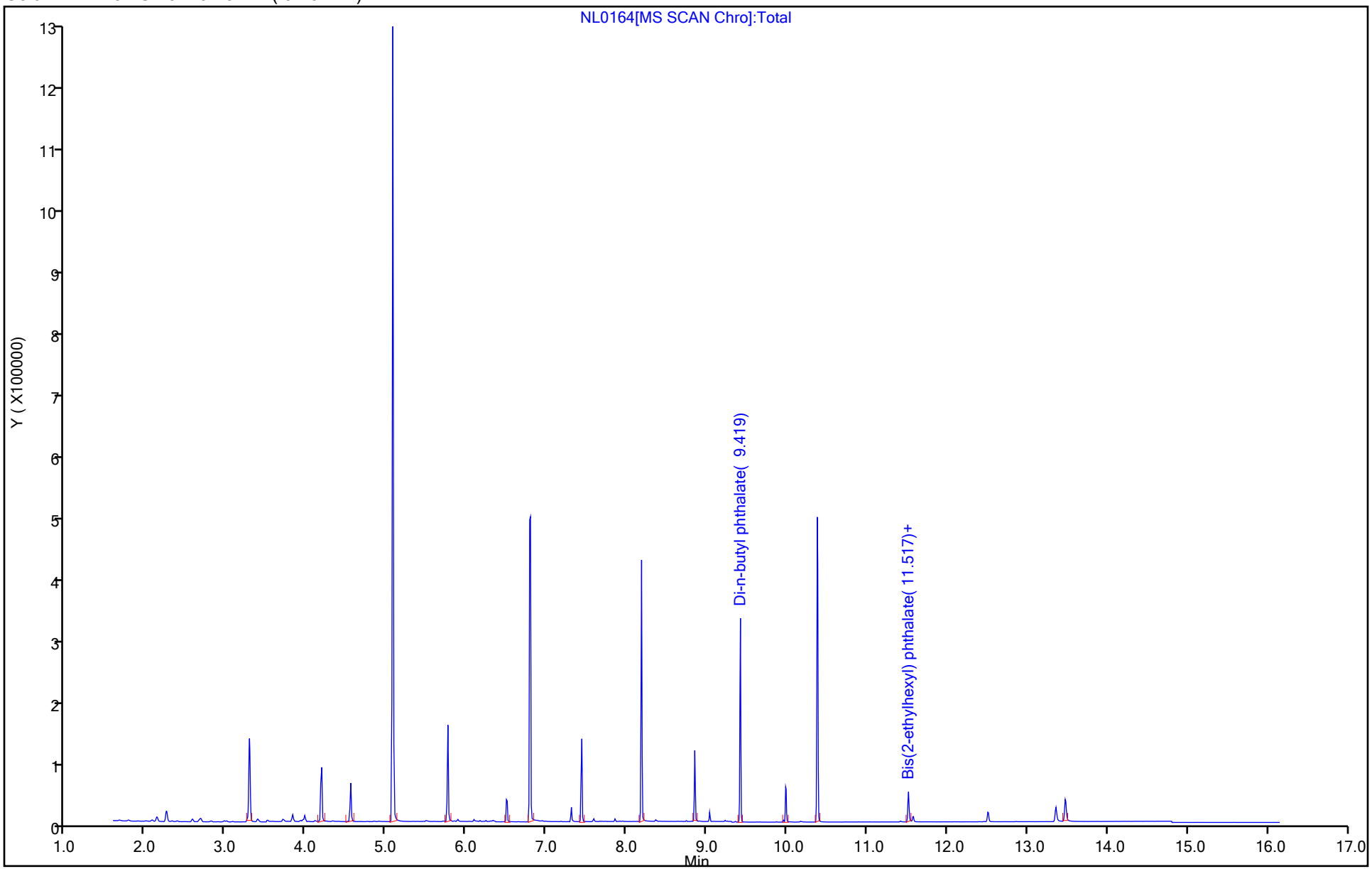
Report Date: 05-Dec-2022 16:00:24 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\NL0164.D

Injection Date:	05-Dec-2022 06:30:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	MB 410-323309/1-A			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\NL0164.D
Lims ID: MB 410-323309/1-A
Client ID:
Sample Type: MB
Inject. Date: 05-Dec-2022 06:30:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: MB 410-323309/1-A
Misc. Info.: 410-0072499-005
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 05-Dec-2022 16:00:04 Calib Date: 05-Oct-2022 11:42:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0026.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1618

First Level Reviewer: UJM0 Date: 05-Dec-2022 07:04:47

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1-Methylnaphthalene-d10	0.2500	0.1417	56.66
$ 24 Fluoranthene-d10 (Surr)	0.2500	0.1490	59.59
$ 36 Benzo(a)pyrene-d12 (Surr)	0.2500	0.1653	66.10

Report Date: 05-Dec-2022 16:00:24 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\NL0164.D

Injection Date: 05-Dec-2022 06:30:30 Instrument ID: HP23263

Lims ID: MB 410-323309/1-A

Client ID:

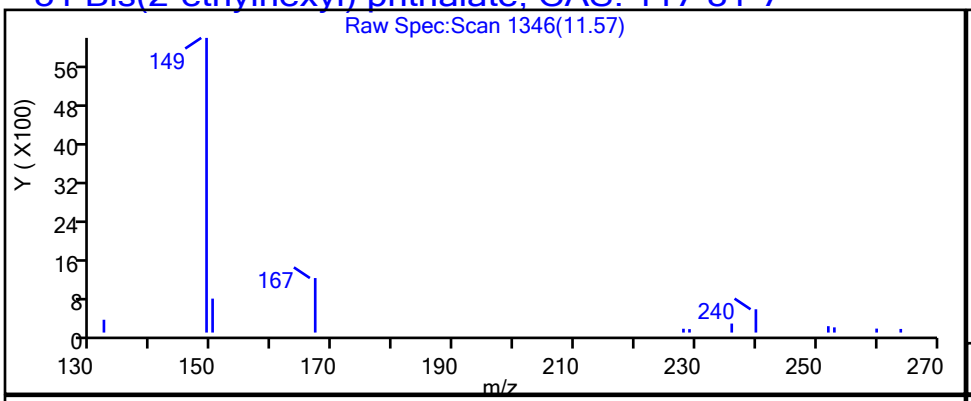
Operator ID: jmg00346 ALS Bottle#: 5 Worklist Smp#: 5

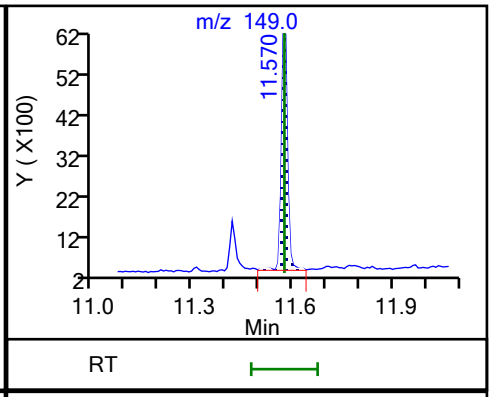
Injection Vol: 1.0 ul Dil. Factor: 1.0000

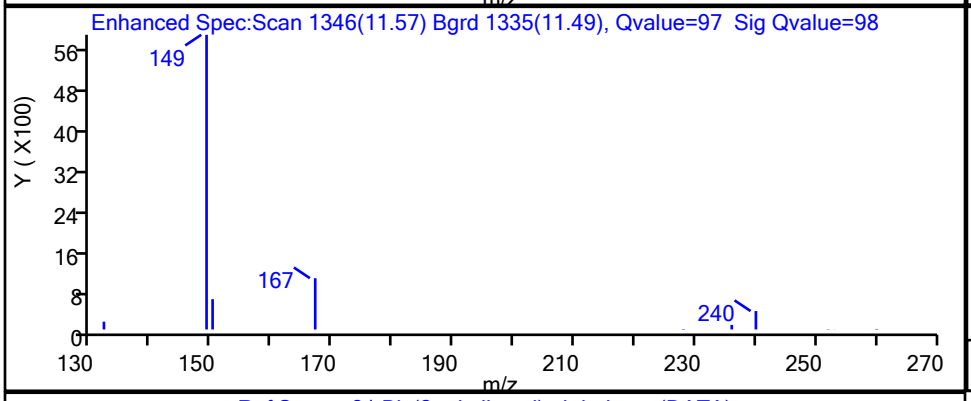
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

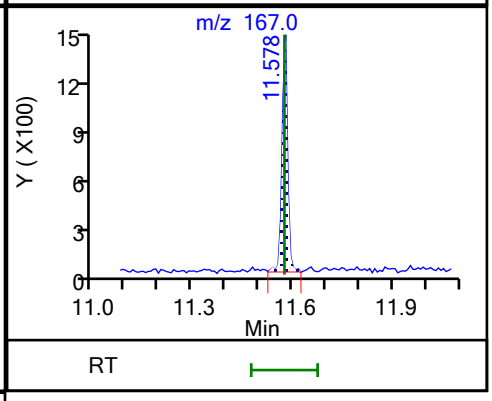
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

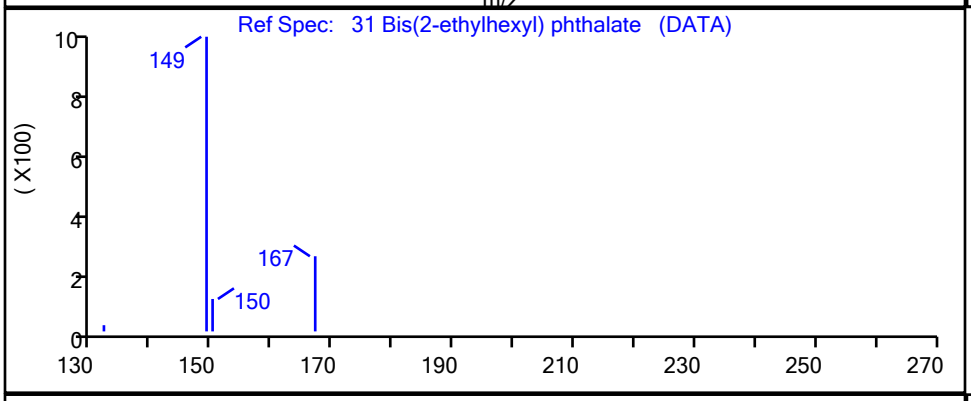
31 Bis(2-ethylhexyl) phthalate, CAS: 117-81-7

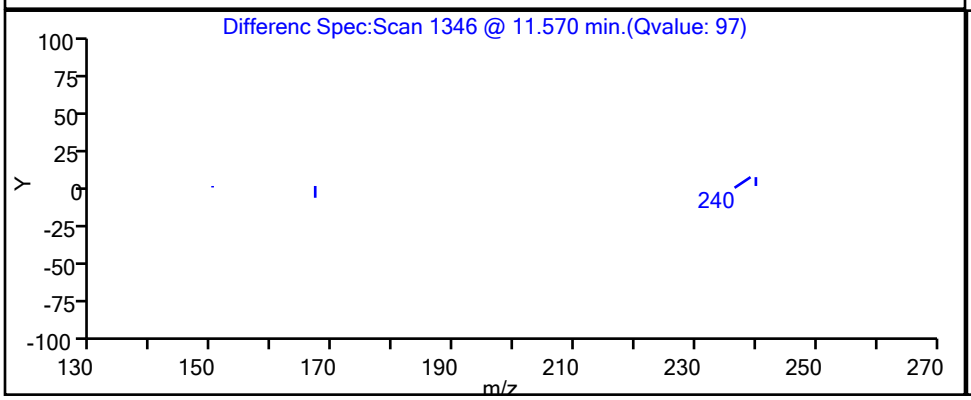


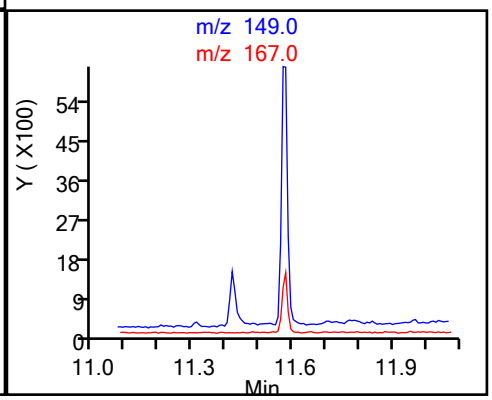












Report Date: 05-Dec-2022 16:00:24 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\NL0164.D

Injection Date: 05-Dec-2022 06:30:30 Instrument ID: HP23263

Lims ID: MB 410-323309/1-A

Client ID:

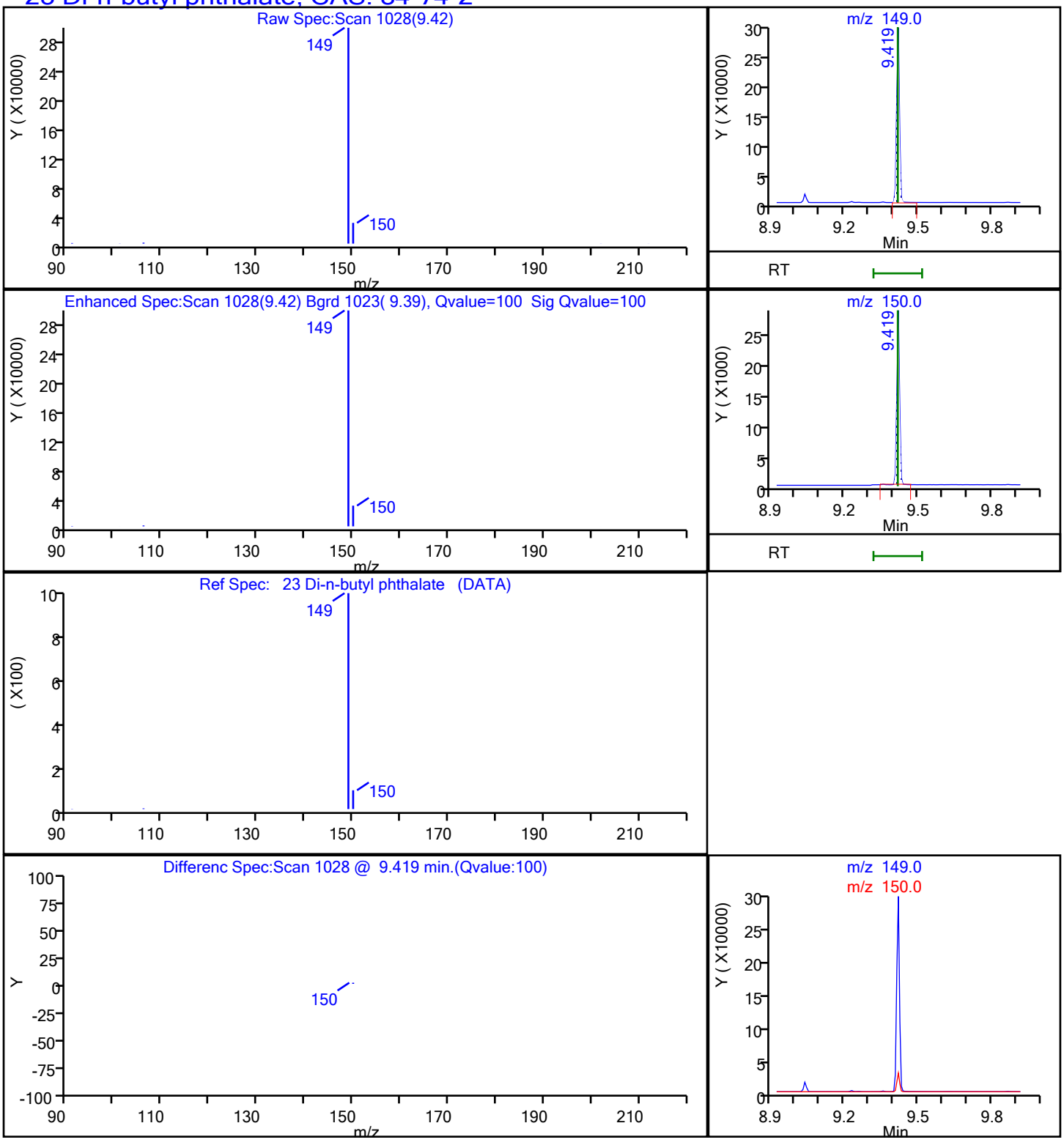
Operator ID: jmg00346 ALS Bottle#: 5 Worklist Smp#: 5

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

23 Di-n-butyl phthalate, CAS: 84-74-2



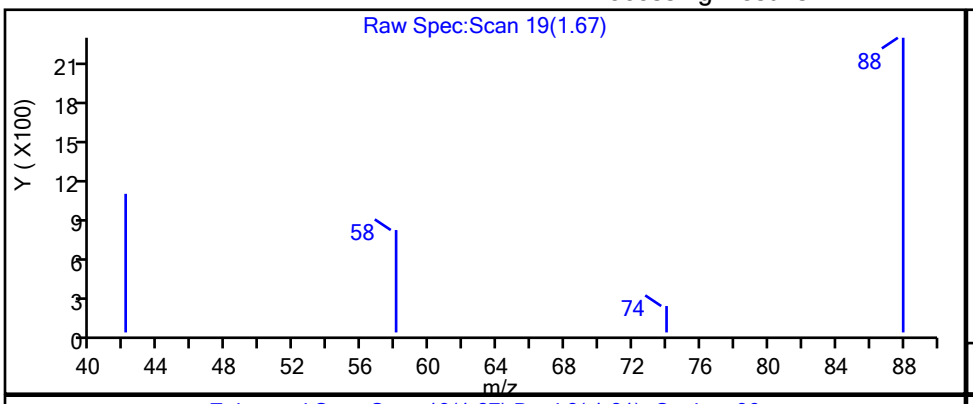
User Disabled Compound Report

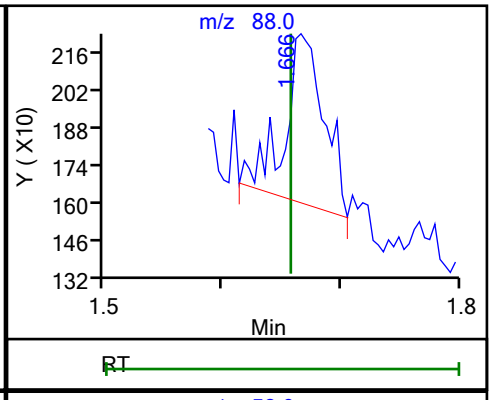
Eurofins Lancaster Laboratories Environment Testing, LLC

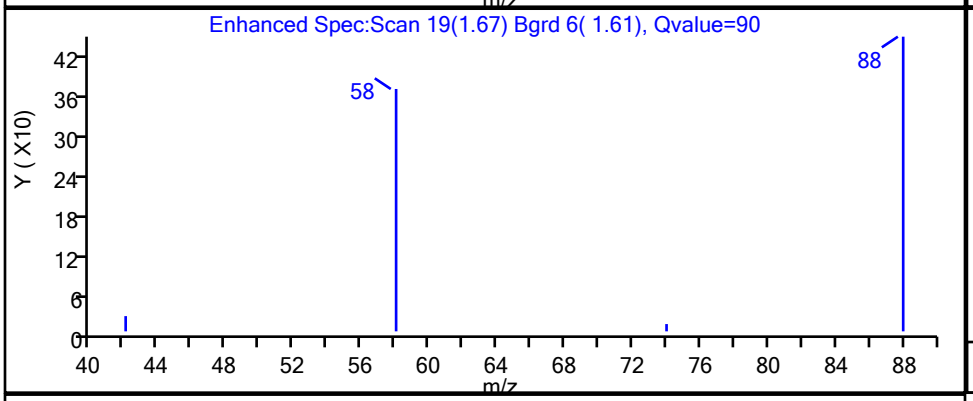
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\NL0164.D				
Injection Date:	05-Dec-2022 06:30:30	Instrument ID:	HP23263		
Lims ID:	MB 410-323309/1-A				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

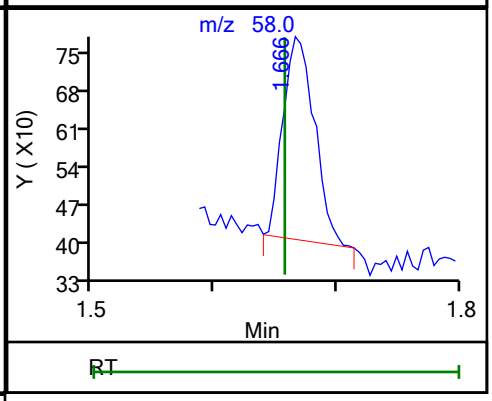
1 1,4-Dioxane, CAS: 123-91-1

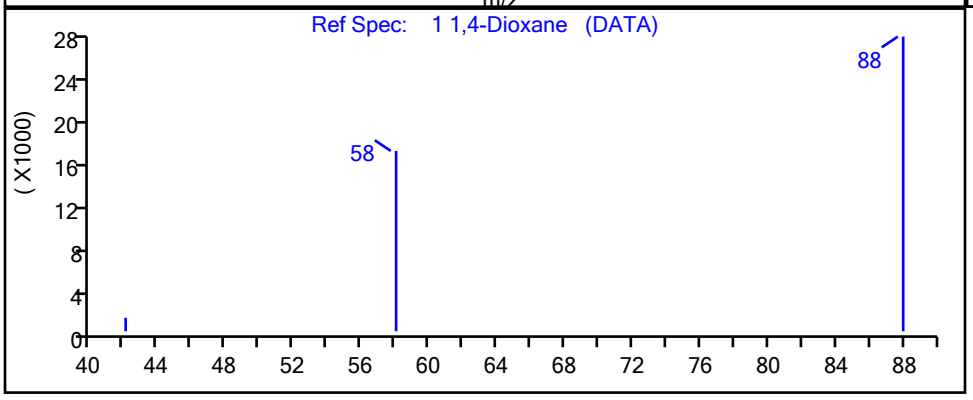
Processing Results











RT	Mass	Response	Amount
1.67	88.00	1477	0.015261
1.67	58.00	663	

Reviewer: UJM0, 05-Dec-2022 07:03:38

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

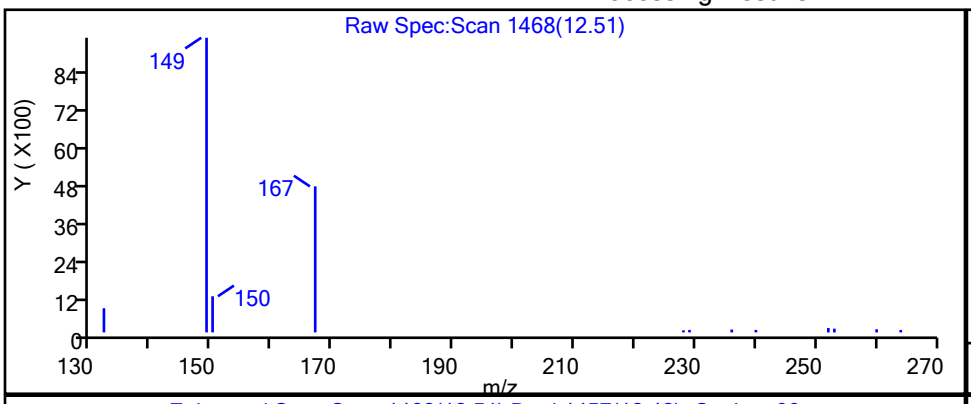
User Disabled Compound Report

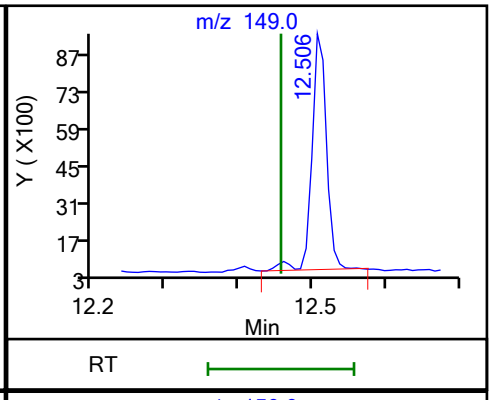
Eurofins Lancaster Laboratories Environment Testing, LLC

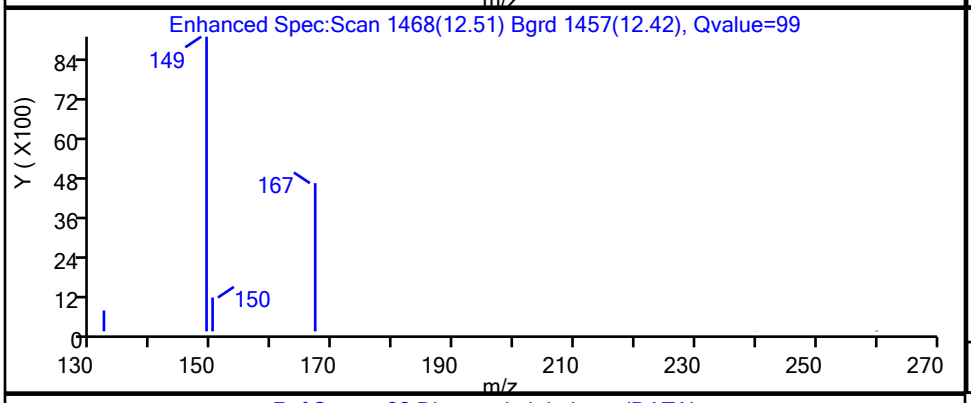
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\NL0164.D				
Injection Date:	05-Dec-2022 06:30:30	Instrument ID:	HP23263		
Lims ID:	MB 410-323309/1-A				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

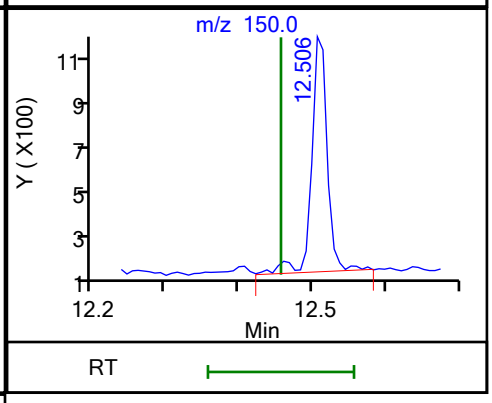
32 Di-n-octyl phthalate, CAS: 117-84-0

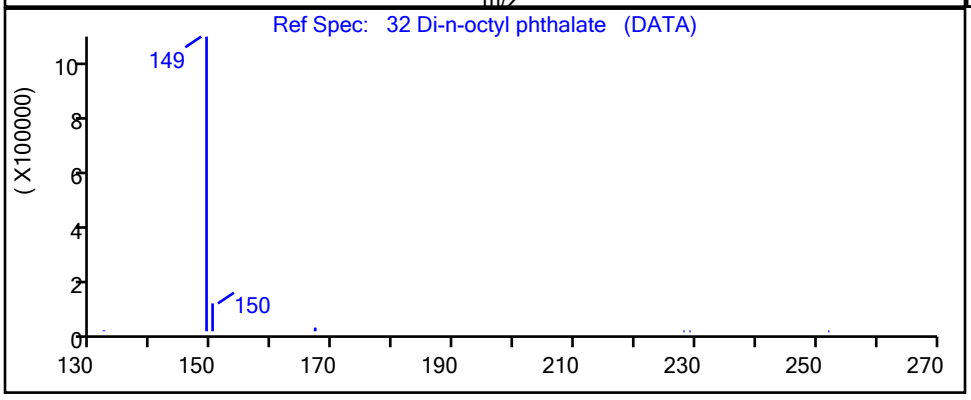
Processing Results











RT	Mass	Response	Amount
12.51	149.00	12610	0.079619
12.51	150.00	1529	

Reviewer: UJM0, 05-Dec-2022 07:04:39

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-106360-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCS 410-320750/2-A

Matrix: Water
Lab File ID: NK1403.D

Analysis Method: 8270D SIM
Date Collected:

Extract. Method: 3510C
Date Extracted: 11/23/2022 17:30

Sample wt/vol: 250(mL)
Date Analyzed: 11/30/2022 06:25

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 321961
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.478		0.30	0.10
90-12-0	1-Methylnaphthalene	0.766		0.050	0.020
91-57-6	2-Methylnaphthalene	0.691		0.050	0.020
83-32-9	Acenaphthene	0.811		0.050	0.010
208-96-8	Acenaphthylene	0.784		0.050	0.010
120-12-7	Anthracene	0.856		0.050	0.010
56-55-3	Benzo[a]anthracene	0.897		0.050	0.010
50-32-8	Benzo[a]pyrene	0.883		0.050	0.010
205-99-2	Benzo[b]fluoranthene	0.893		0.050	0.010
191-24-2	Benzo[g,h,i]perylene	0.904		0.050	0.010
207-08-9	Benzo[k]fluoranthene	0.922		0.050	0.010
111-44-4	Bis(2-chloroethyl)ether	0.961		0.050	0.020
117-81-7	Bis(2-ethylhexyl) phthalate	1.36		1.0	0.050
85-68-7	Butylbenzylphthalate	0.979	J	1.0	0.050
218-01-9	Chrysene	0.916		0.050	0.010
53-70-3	Dibenz(a,h)anthracene	0.810		0.050	0.020
132-64-9	Dibenzofuran	0.783		0.050	0.010
84-66-2	Diethylphthalate	0.914	J	1.0	0.050
131-11-3	Dimethylphthalate	0.900	J	1.0	0.050
84-74-2	Di-n-butyl phthalate	2.33		1.0	0.050
117-84-0	Di-n-octyl phthalate	0.957	J	1.0	0.050
206-44-0	Fluoranthene	0.808		0.050	0.010
86-73-7	Fluorene	0.794		0.050	0.010
118-74-1	Hexachlorobenzene	0.836		0.050	0.020
193-39-5	Indeno[1,2,3-cd]pyrene	0.857		0.050	0.020
91-20-3	Naphthalene	0.764		0.070	0.030
62-75-9	N-Nitrosodimethylamine	0.760		0.050	0.020
85-01-8	Phenanthrene	0.855		0.070	0.030
129-00-0	Pyrene	0.884		0.050	0.010

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-106360-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-320750/2-A

Matrix: Water Lab File ID: NK1403.D

Analysis Method: 8270D SIM Date Collected:

Extract. Method: 3510C Date Extracted: 11/23/2022 17:30

Sample wt/vol: 250(mL) Date Analyzed: 11/30/2022 06:25

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor: Level: (low/med) Low

Analysis Batch No.: 321961 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
38072-94-5	1-Methylnaphthalene-d10 (Surr)	73		36-111
63466-71-7	Benzo(a)pyrene-d12 (Surr)	87		10-110
93951-69-0	Fluoranthene-d10 (Surr)	74		47-128

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1403.D
Lims ID: LCS 410-320750/2-A
Client ID:
Sample Type: LCS
Inject. Date: 30-Nov-2022 06:25:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: LCS 410-320750/2-A
Misc. Info.: 410-0072166-004
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 01-Dec-2022 04:31:08 Calib Date: 05-Oct-2022 11:42:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0026.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: UJM0 Date: 01-Dec-2022 04:18:46

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	1.683	1.666	0.017	97	11173	0.2500	0.1195	M
	2 N-Nitrosodimethylamine	74	2.007	1.985	0.022	91	20155	0.2500	0.1899	
	3 Bis(2-chloroethyl)ether	93	4.306	4.306	0.013	87	48358	0.2500	0.2404	
*	4 1,4-Dichlorobenzene-d4	152	4.568	4.568	0.000	93	39400	0.2500	0.2500	
*	5 Naphthalene-d8	136	5.768	5.768	0.000	100	141932	0.2500	0.2500	
	6 Naphthalene	128	5.793	5.805	0.000	99	109800	0.2500	0.1910	
	8 2-Methylnaphthalene	142	6.448	6.448	0.000	99	63208	0.2500	0.1727	
$	9 1-Methylnaphthalene-d10	152	6.508	6.522	0.000	99	47763	0.2500	0.1829	
	10 1-Methylnaphthalene	142	6.538	6.552	0.000	96	62697	0.2500	0.1916	
	11 Dimethyl phthalate	163	7.189	7.199	0.000	98	59269	0.2500	0.2249	
	12 Acenaphthylene	152	7.299	7.319	-0.010	100	93023	0.2500	0.1960	
*	13 Acenaphthene-d10	164	7.439	7.439	0.000	96	56777	0.2500	0.2500	
	14 Acenaphthene	154	7.469	7.469	0.000	94	57856	0.2500	0.2028	
	15 Dibenzofuran	168	7.640	7.650	0.000	66	84027	0.2500	0.1957	
	16 Diethyl phthalate	149	7.853	7.867	-0.007	98	56665	0.2500	0.2286	
	17 Fluorene	166	7.961	7.971	0.000	99	62469	0.2500	0.1985	
	19 Hexachlorobenzene	284	8.478	8.486	0.000	89	17469	0.2500	0.2090	
*	20 Phenanthrene-d10	188	8.849	8.849	0.000	99	76918	0.2500	0.2500	
	21 Phenanthrene	178	8.872	8.880	0.000	100	77913	0.2500	0.2138	
	22 Anthracene	178	8.926	8.934	0.000	100	72264	0.2500	0.2141	
	23 Di-n-butyl phthalate	149	9.419	9.427	0.000	100	155464	0.2500	0.5823	
$	24 Fluoranthene-d10 (Surr)	212	9.989	10.008	0.000	97	52048	0.2500	0.1856	
	25 Fluoranthene	202	10.002	10.008	-0.006	99	68167	0.2500	0.2020	
	26 Pyrene	202	10.221	10.221	0.000	96	69011	0.2500	0.2209	
	27 Butyl benzyl phthalate	149	10.896	10.903	0.001	100	19495	0.2500	0.2446	
	28 Benzo[a]anthracene	228	11.501	11.509	0.000	99	51107	0.2500	0.2244	
*	29 Chrysene-d12	240	11.517	11.517	0.000	90	41833	0.2500	0.2500	
	30 Chrysene	228	11.547	11.555	0.000	100	54292	0.2500	0.2291	
	31 Bis(2-ethylhexyl) phthalate	149	11.578	11.578	0.000	99	32153	0.2500	0.3400	
	32 Di-n-octyl phthalate	149	12.453	12.456	0.000	100	37820	0.2500	0.2393	M
	33 Benzo[b]fluoranthene	252	12.928	12.936	0.000	100	51325	0.2500	0.2233	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
34 Benzo[k]fluoranthene	252	12.966	12.974	-0.008	100	58224	0.2500	0.2304	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.358	13.365	-0.007	99	33353	0.2500	0.2181	
37 Benzo[a]pyrene	252	13.396	13.403	0.000	100	45482	0.2500	0.2208	
* 38 Perylene-d12	264	13.480	13.480	0.000	96	39836	0.2500	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	15.111	15.118	0.000	97	35048	0.2500	0.2144	
41 Dibenz(a,h)anthracene	278	15.167	15.176	0.000	97	35196	0.2500	0.2025	
42 Benzo[g,h,i]perylene	276	15.570	15.579	0.000	98	45492	0.2500	0.2261	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00032 Amount Added: 10.00 Units: uL Run Reagent

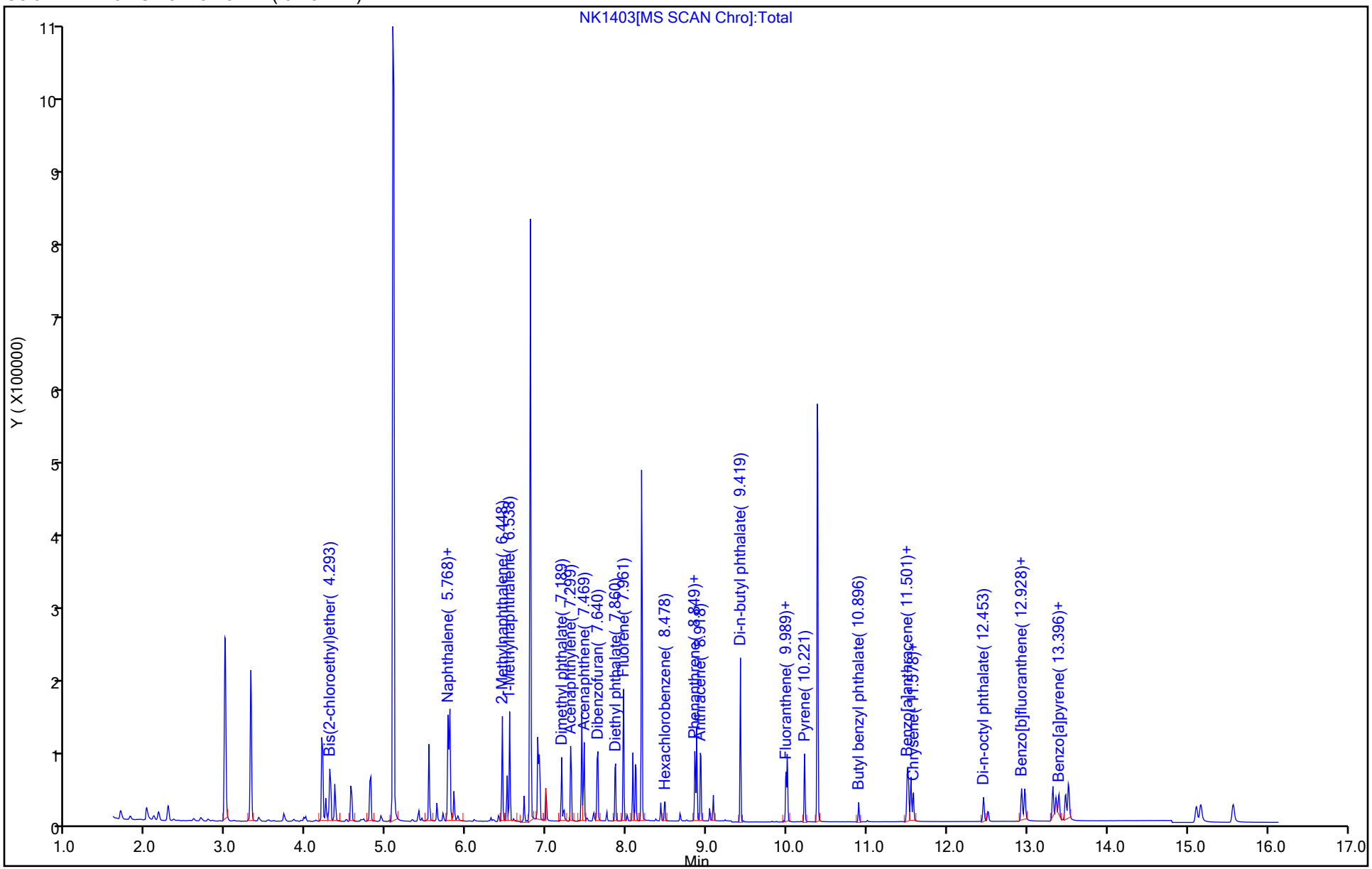
Report Date: 01-Dec-2022 04:31:45 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1403.D

Injection Date:	30-Nov-2022 06:25:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	LCS 410-320750/2-A			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1403.D
Lims ID: LCS 410-320750/2-A
Client ID:
Sample Type: LCS
Inject. Date: 30-Nov-2022 06:25:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: LCS 410-320750/2-A
Misc. Info.: 410-0072166-004
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 01-Dec-2022 04:31:08 Calib Date: 05-Oct-2022 11:42:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0026.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: UJM0 Date: 01-Dec-2022 04:18:46

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1-Methylnaphthalene-d10	0.2500	0.1829	73.18
$ 24 Fluoranthene-d10 (Surr)	0.2500	0.1856	74.25
$ 36 Benzo(a)pyrene-d12 (Surr)	0.2500	0.2181	87.23

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

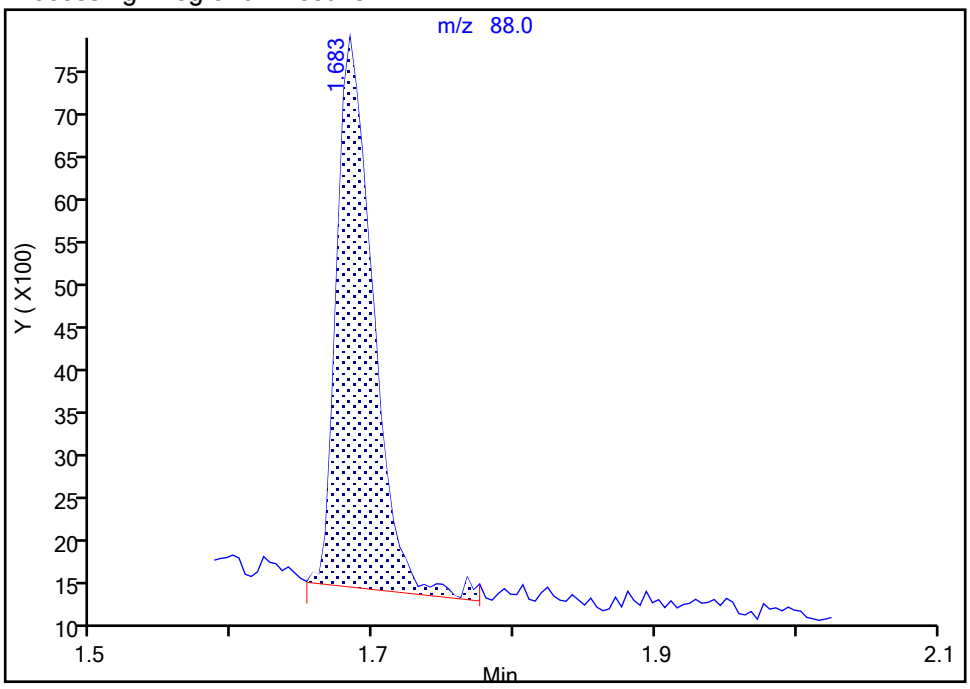
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1403.D				
Injection Date:	30-Nov-2022 06:25:30	Instrument ID:	HP23263		
Lims ID:	LCS 410-320750/2-A				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

1 1,4-Dioxane, CAS: 123-91-1

Signal: 1

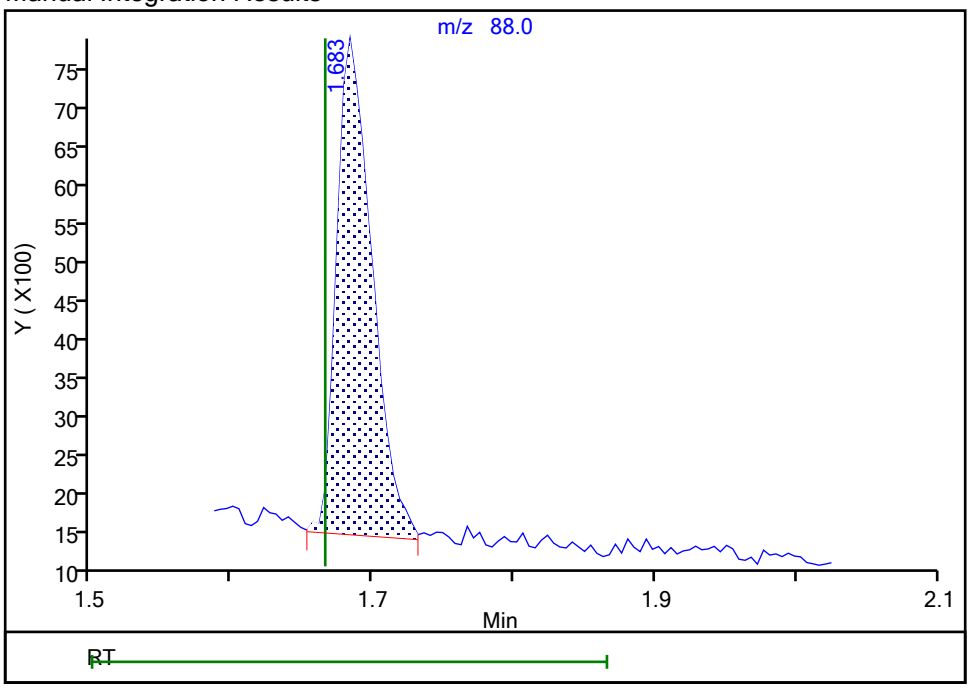
Processing Integration Results

RT: 1.68
Area: 11506
Amount: 0.123089
Amount Units: ug/ml



Manual Integration Results

RT: 1.68
Area: 11173
Amount: 0.119526
Amount Units: ug/ml



Reviewer: UJM0, 01-Dec-2022 04:18:18

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

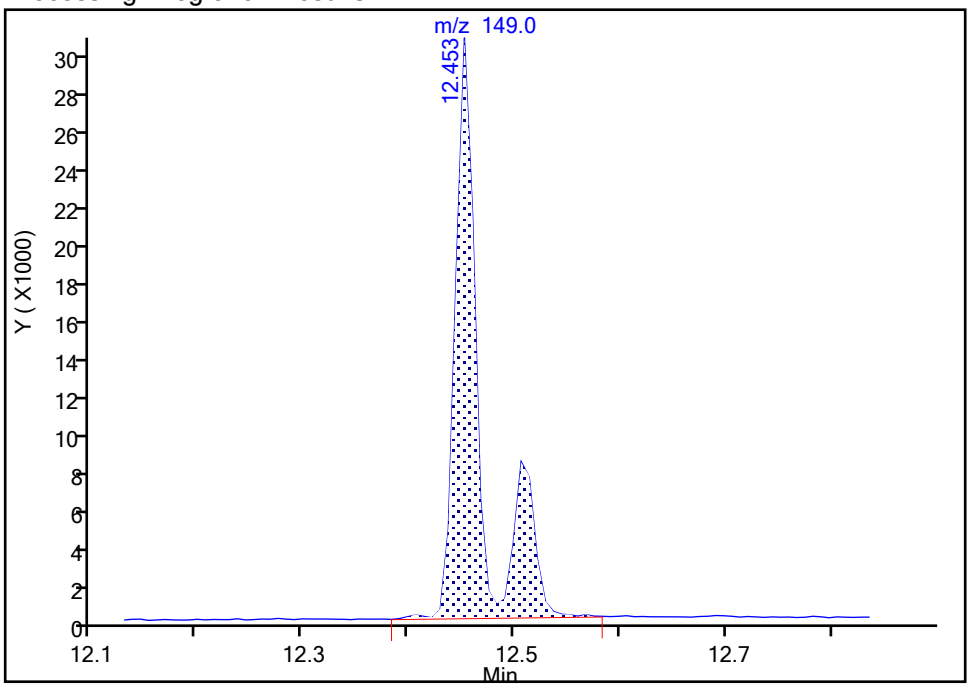
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1403.D				
Injection Date:	30-Nov-2022 06:25:30	Instrument ID:	HP23263		
Lims ID:	LCS 410-320750/2-A				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

32 Di-n-octyl phthalate, CAS: 117-84-0

Signal: 1

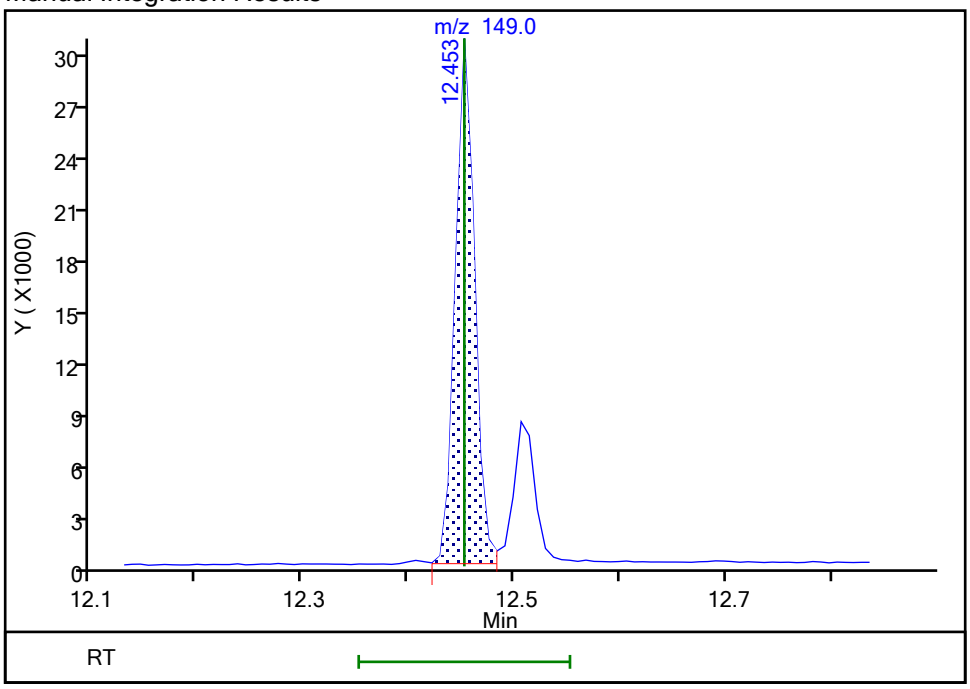
Processing Integration Results

RT: 12.45
Area: 49222
Amount: 0.311402
Amount Units: ug/ml



Manual Integration Results

RT: 12.45
Area: 37820
Amount: 0.239268
Amount Units: ug/ml



Reviewer: UJM0, 01-Dec-2022 04:18:36

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-106360-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCS 410-323309/2-A

Matrix: Water
Lab File ID: NL0165.D

Analysis Method: 8270D SIM
Date Collected:

Extract. Method: 3510C
Date Extracted: 12/03/2022 03:22

Sample wt/vol: 250(mL)
Date Analyzed: 12/05/2022 06:51

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 323522
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	*1,4-Dioxane*	*0.432*		*0.30*	*0.10*
90-12-0	*1-Methylnaphthalene*	*0.678*		*0.050*	*0.020*
91-57-6	*2-Methylnaphthalene*	*0.619*		*0.050*	*0.020*
83-32-9	*Acenaphthene*	*0.698*		*0.050*	*0.010*
208-96-8	*Acenaphthylene*	*0.718*		*0.050*	*0.010*
120-12-7	*Anthracene*	*0.756*		*0.050*	*0.010*
56-55-3	*Benzo[a]anthracene*	*0.834*		*0.050*	*0.010*
50-32-8	*Benzo[a]pyrene*	*0.847*		*0.050*	*0.010*
205-99-2	*Benzo[b]fluoranthene*	*0.777*		*0.050*	*0.010*
191-24-2	*Benzo[g,h,i]perylene*	*0.811*		*0.050*	*0.010*
207-08-9	*Benzo[k]fluoranthene*	*0.918*		*0.050*	*0.010*
111-44-4	*Bis(2-chloroethyl)ether*	*0.847*		*0.050*	*0.020*
117-81-7	*Bis(2-ethylhexyl) phthalate*	*0.779*	*J*	*1.0*	*0.050*
85-68-7	*Butylbenzylphthalate*	*0.420*	*J*	*1.0*	*0.050*
218-01-9	*Chrysene*	*0.857*		*0.050*	*0.010*
53-70-3	*Dibenz(a,h)anthracene*	*0.764*		*0.050*	*0.020*
132-64-9	*Dibenzofuran*	*0.742*		*0.050*	*0.010*
84-66-2	*Diethylphthalate*	*0.630*	*J*	*1.0*	*0.050*
131-11-3	*Dimethylphthalate*	*0.257*	*J*	*1.0*	*0.050*
84-74-2	*Di-n-butyl phthalate*	*1.57*		*1.0*	*0.050*
117-84-0	*Di-n-octyl phthalate*	*0.730*	*J*	*1.0*	*0.050*
206-44-0	*Fluoranthene*	*0.768*		*0.050*	*0.010*
86-73-7	*Fluorene*	*0.724*		*0.050*	*0.010*
118-74-1	*Hexachlorobenzene*	*0.762*		*0.050*	*0.020*
193-39-5	*Indeno[1,2,3-cd]pyrene*	*0.760*		*0.050*	*0.020*
91-20-3	*Naphthalene*	*0.699*		*0.070*	*0.030*
62-75-9	*N-Nitrosodimethylamine*	*0.633*		*0.050*	*0.020*
85-01-8	*Phenanthrene*	*0.776*		*0.070*	*0.030*
129-00-0	*Pyrene*	*0.863*		*0.050*	*0.010*

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-106360-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-323309/2-A

Matrix: Water Lab File ID: NL0165.D

Analysis Method: 8270D SIM Date Collected:

Extract. Method: 3510C Date Extracted: 12/03/2022 03:22

Sample wt/vol: 250(mL) Date Analyzed: 12/05/2022 06:51

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor: Level: (low/med) Low

Analysis Batch No.: 323522 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
38072-94-5	1-Methylnaphthalene-d10 (Surr)	68		36-111
63466-71-7	Benzo(a)pyrene-d12 (Surr)	84		10-110
93951-69-0	Fluoranthene-d10 (Surr)	75		47-128

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\NL0165.D
Lims ID: LCS 410-323309/2-A
Client ID:
Sample Type: LCS
Inject. Date: 05-Dec-2022 06:51:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: LCS 410-323309/2-A
Misc. Info.: 410-0072499-006
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 05-Dec-2022 16:00:04 Calib Date: 05-Oct-2022 11:42:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0026.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1618

First Level Reviewer: UJM0 Date: 05-Dec-2022 07:19:13

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	1.666	1.670	0.009	95	10079	0.2500	0.1079	
	2 N-Nitrosodimethylamine	74	1.994	1.977	0.017	88	16782	0.2500	0.1582	
	3 Bis(2-chloroethyl)ether	93	4.293	4.293	0.000	95	41462	0.2500	0.2117	
*	4 1,4-Dichlorobenzene-d4	152	4.556	4.556	0.000	98	39377	0.2500	0.2500	
*	5 Naphthalene-d8	136	5.768	5.768	0.000	100	138135	0.2500	0.2500	
	6 Naphthalene	128	5.780	5.780	0.000	98	97800	0.2500	0.1748	
	8 2-Methylnaphthalene	142	6.448	6.445	0.003	96	55098	0.2500	0.1547	
$	9 1-Methylnaphthalene-d10	152	6.508	6.505	0.003	98	43338	0.2500	0.1706	
	10 1-Methylnaphthalene	142	6.538	6.535	0.002	99	53974	0.2500	0.1695	
	11 Dimethyl phthalate	163	7.189	7.189	0.003	98	15811	0.2500	0.0644	
	12 Acenaphthylene	152	7.299	7.299	0.002	100	79387	0.2500	0.1795	
*	13 Acenaphthene-d10	164	7.439	7.437	0.002	97	52916	0.2500	0.2500	
	14 Acenaphthene	154	7.469	7.469	0.002	90	46371	0.2500	0.1744	
	15 Dibenzofuran	168	7.630	7.640	-0.007	77	74256	0.2500	0.1856	
	16 Diethyl phthalate	149	7.853	7.853	-0.005	100	36387	0.2500	0.1575	
	17 Fluorene	166	7.953	7.961	-0.005	95	53057	0.2500	0.1809	
	19 Hexachlorobenzene	284	8.471	8.471	-0.005	98	16617	0.2500	0.1906	
*	20 Phenanthrene-d10	188	8.849	8.854	-0.005	100	80263	0.2500	0.2500	
	21 Phenanthrene	178	8.872	8.864	0.002	100	73768	0.2500	0.1940	
	22 Anthracene	178	8.919	8.918	-0.006	100	66567	0.2500	0.1890	
	23 Di-n-butyl phthalate	149	9.419	9.411	0.003	100	109204	0.2500	0.3920	
$	24 Fluoranthene-d10 (Surr)	212	9.983	9.981	-0.004	100	54766	0.2500	0.1872	
	25 Fluoranthene	202	10.002	10.000	-0.004	99	67618	0.2500	0.1920	
	26 Pyrene	202	10.221	10.222	0.002	95	69991	0.2500	0.2158	
	27 Butyl benzyl phthalate	149	10.896	10.903	-0.003	100	8692	0.2500	0.1051	
	28 Benzo[a]anthracene	228	11.502	11.509	-0.003	100	49298	0.2500	0.2084	
*	29 Chrysene-d12	240	11.517	11.513	0.004	88	43433	0.2500	0.2500	
	30 Chrysene	228	11.548	11.547	0.004	100	52736	0.2500	0.2143	
	31 Bis(2-ethylhexyl) phthalate	149	11.578	11.578	0.004	99	19115	0.2500	0.1947	
	32 Di-n-octyl phthalate	149	12.453	12.453	-0.003	100	27895	0.2500	0.1825	
	33 Benzo[b]fluoranthene	252	12.928	12.920	0.004	100	43152	0.2500	0.1941	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
34 Benzo[k]fluoranthene	252	12.966	12.966	-0.004	100	56102	0.2500	0.2296	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.358	13.358	-0.003	97	31166	0.2500	0.2107	
37 Benzo[a]pyrene	252	13.388	13.388	-0.004	100	42195	0.2500	0.2119	
* 38 Perylene-d12	264	13.473	13.476	-0.003	97	38519	0.2500	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	15.104	15.103	-0.004	97	30050	0.2500	0.1901	
41 Dibenz(a,h)anthracene	278	15.160	15.160	-0.004	97	32079	0.2500	0.1909	
42 Benzo[g,h,i]perylene	276	15.563	15.562	-0.004	98	39451	0.2500	0.2028	

QC Flag Legend

Processing Flags

Reagents:

MSS_RVSIM_IS_00032 Amount Added: 10.00 Units: uL Run Reagent

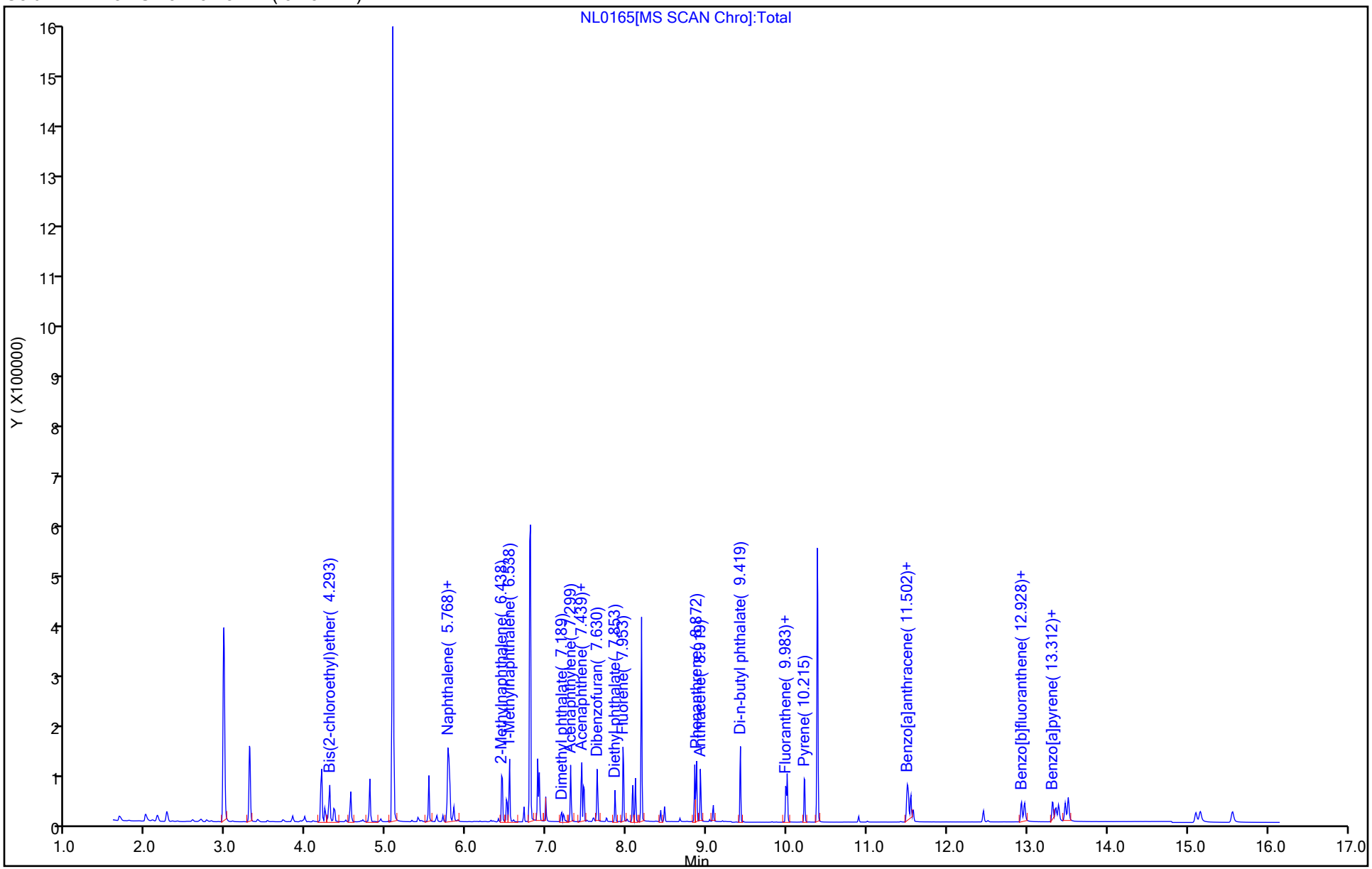
Report Date: 05-Dec-2022 16:00:25 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\NL0165.D

Injection Date:	05-Dec-2022 06:51:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	LCS 410-323309/2-A			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\NL0165.D				
Lims ID:	LCS 410-323309/2-A				
Client ID:					
Sample Type:	LCS				
Inject. Date:	05-Dec-2022 06:51:30	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	LCS 410-323309/2-A				
Misc. Info.:	410-0072499-006				
Operator ID:	jmg00346	Instrument ID:	HP23263		
Method:	\\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\8270_SIM_HP23263.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	05-Dec-2022 16:00:04	Calib Date:	05-Oct-2022 11:42:30		
Integrator:	Falcon	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0026.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1618				

First Level Reviewer: UJM0 Date: 05-Dec-2022 07:19:13

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1-Methylnaphthalene-d10	0.2500	0.1706	68.23
$ 24 Fluoranthene-d10 (Surr)	0.2500	0.1872	74.87
$ 36 Benzo(a)pyrene-d12 (Surr)	0.2500	0.2107	84.30

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-106360-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCSD 410-320750/3-A

Matrix: Water
Lab File ID: NK1404.D

Analysis Method: 8270D SIM
Date Collected:

Extract. Method: 3510C
Date Extracted: 11/23/2022 17:30

Sample wt/vol: 250(mL)
Date Analyzed: 11/30/2022 06:46

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 321961
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.557		0.30	0.10
90-12-0	1-Methylnaphthalene	0.795		0.050	0.020
91-57-6	2-Methylnaphthalene	0.704		0.050	0.020
83-32-9	Acenaphthene	0.806		0.050	0.010
208-96-8	Acenaphthylene	0.783		0.050	0.010
120-12-7	Anthracene	0.889		0.050	0.010
56-55-3	Benzo[a]anthracene	0.919		0.050	0.010
50-32-8	Benzo[a]pyrene	0.930		0.050	0.010
205-99-2	Benzo[b]fluoranthene	0.946		0.050	0.010
191-24-2	Benzo[g,h,i]perylene	0.918		0.050	0.010
207-08-9	Benzo[k]fluoranthene	0.955		0.050	0.010
111-44-4	Bis(2-chloroethyl)ether	0.956		0.050	0.020
117-81-7	Bis(2-ethylhexyl) phthalate	1.19		1.0	0.050
85-68-7	Butylbenzylphthalate	0.992	J	1.0	0.050
218-01-9	Chrysene	0.983		0.050	0.010
53-70-3	Dibenz(a,h)anthracene	0.817		0.050	0.020
132-64-9	Dibenzofuran	0.791		0.050	0.010
84-66-2	Diethylphthalate	0.903	J	1.0	0.050
131-11-3	Dimethylphthalate	0.824	J	1.0	0.050
84-74-2	Di-n-butyl phthalate	1.32		1.0	0.050
117-84-0	Di-n-octyl phthalate	0.977	J	1.0	0.050
206-44-0	Fluoranthene	0.826		0.050	0.010
86-73-7	Fluorene	0.788		0.050	0.010
118-74-1	Hexachlorobenzene	0.868		0.050	0.020
193-39-5	Indeno[1,2,3-cd]pyrene	0.863		0.050	0.020
91-20-3	Naphthalene	0.792		0.070	0.030
62-75-9	N-Nitrosodimethylamine	0.787		0.050	0.020
85-01-8	Phenanthrene	0.860		0.070	0.030
129-00-0	Pyrene	0.958		0.050	0.010

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-106360-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 410-320750/3-A

Matrix: Water Lab File ID: NK1404.D

Analysis Method: 8270D SIM Date Collected:

Extract. Method: 3510C Date Extracted: 11/23/2022 17:30

Sample wt/vol: 250(mL) Date Analyzed: 11/30/2022 06:46

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor: Level: (low/med) Low

Analysis Batch No.: 321961 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
38072-94-5	1-Methylnaphthalene-d10 (Surr)	74		36-111
63466-71-7	Benzo(a)pyrene-d12 (Surr)	88		10-110
93951-69-0	Fluoranthene-d10 (Surr)	75		47-128

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1404.D
Lims ID: LCSD 410-320750/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 30-Nov-2022 06:46:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: LCSD 410-320750/3-A
Misc. Info.: 410-0072166-005
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 01-Dec-2022 04:31:08 Calib Date: 05-Oct-2022 11:42:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0026.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: UJM0 Date: 01-Dec-2022 04:19:31

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	1.692	1.666	0.026	95	12907	0.2500	0.1394	
	2 N-Nitrosodimethylamine	74	2.012	1.985	0.027	89	20687	0.2500	0.1968	
	3 Bis(2-chloroethyl)ether	93	4.305	4.306	0.012	87	48892	0.2500	0.2391	
*	4 1,4-Dichlorobenzene-d4	152	4.568	4.568	0.000	93	39036	0.2500	0.2500	
*	5 Naphthalene-d8	136	5.768	5.768	0.000	100	144269	0.2500	0.2500	
	6 Naphthalene	128	5.793	5.805	0.000	99	115761	0.2500	0.1981	
	8 2-Methylnaphthalene	142	6.448	6.448	0.000	98	65455	0.2500	0.1760	
$	9 1-Methylnaphthalene-d10	152	6.508	6.522	0.000	99	49377	0.2500	0.1861	
	10 1-Methylnaphthalene	142	6.538	6.552	0.000	96	66070	0.2500	0.1986	
	11 Dimethyl phthalate	163	7.189	7.199	0.000	98	58375	0.2500	0.2061	
	12 Acenaphthylene	152	7.299	7.319	-0.010	100	99854	0.2500	0.1958	
*	13 Acenaphthene-d10	164	7.439	7.439	0.000	96	61031	0.2500	0.2500	
	14 Acenaphthene	154	7.469	7.469	0.000	94	61776	0.2500	0.2015	
	15 Dibenzofuran	168	7.639	7.650	-0.001	66	91306	0.2500	0.1978	
	16 Diethyl phthalate	149	7.853	7.867	-0.007	99	60113	0.2500	0.2256	
	17 Fluorene	166	7.961	7.971	0.000	100	66682	0.2500	0.1971	
	19 Hexachlorobenzene	284	8.478	8.486	0.000	84	19059	0.2500	0.2170	
*	20 Phenanthrene-d10	188	8.849	8.849	0.000	100	80822	0.2500	0.2500	
	21 Phenanthrene	178	8.872	8.880	0.000	100	82340	0.2500	0.2150	
	22 Anthracene	178	8.926	8.934	0.000	100	78873	0.2500	0.2224	
	23 Di-n-butyl phthalate	149	9.419	9.427	0.000	100	92451	0.2500	0.3295	
$	24 Fluoranthene-d10 (Surr)	212	9.989	10.008	0.000	96	54922	0.2500	0.1864	
	25 Fluoranthene	202	10.002	10.008	-0.006	99	73214	0.2500	0.2065	
	26 Pyrene	202	10.221	10.221	0.000	96	74858	0.2500	0.2394	
	27 Butyl benzyl phthalate	149	10.895	10.903	0.000	100	19776	0.2500	0.2480	
	28 Benzo[a]anthracene	228	11.501	11.509	0.000	99	52399	0.2500	0.2298	
*	29 Chrysene-d12	240	11.517	11.517	0.000	91	41866	0.2500	0.2500	
	30 Chrysene	228	11.547	11.555	0.000	100	58281	0.2500	0.2457	
	31 Bis(2-ethylhexyl) phthalate	149	11.578	11.578	0.000	99	28207	0.2500	0.2981	
	32 Di-n-octyl phthalate	149	12.452	12.456	0.000	100	38274	0.2500	0.2442	M
	33 Benzo[b]fluoranthene	252	12.928	12.936	0.000	100	53927	0.2500	0.2366	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
34 Benzo[k]fluoranthene	252	12.966	12.974	-0.008	100	59830	0.2500	0.2388	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.357	13.365	-0.008	99	33217	0.2500	0.2190	
37 Benzo[a]pyrene	252	13.396	13.403	0.000	100	47490	0.2500	0.2325	
* 38 Perylene-d12	264	13.480	13.480	0.000	96	39501	0.2500	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	15.111	15.118	0.000	97	34995	0.2500	0.2159	
41 Dibenz(a,h)anthracene	278	15.167	15.176	0.000	97	35201	0.2500	0.2042	
42 Benzo[g,h,i]perylene	276	15.570	15.579	0.000	99	45791	0.2500	0.2295	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00032 Amount Added: 10.00 Units: uL Run Reagent

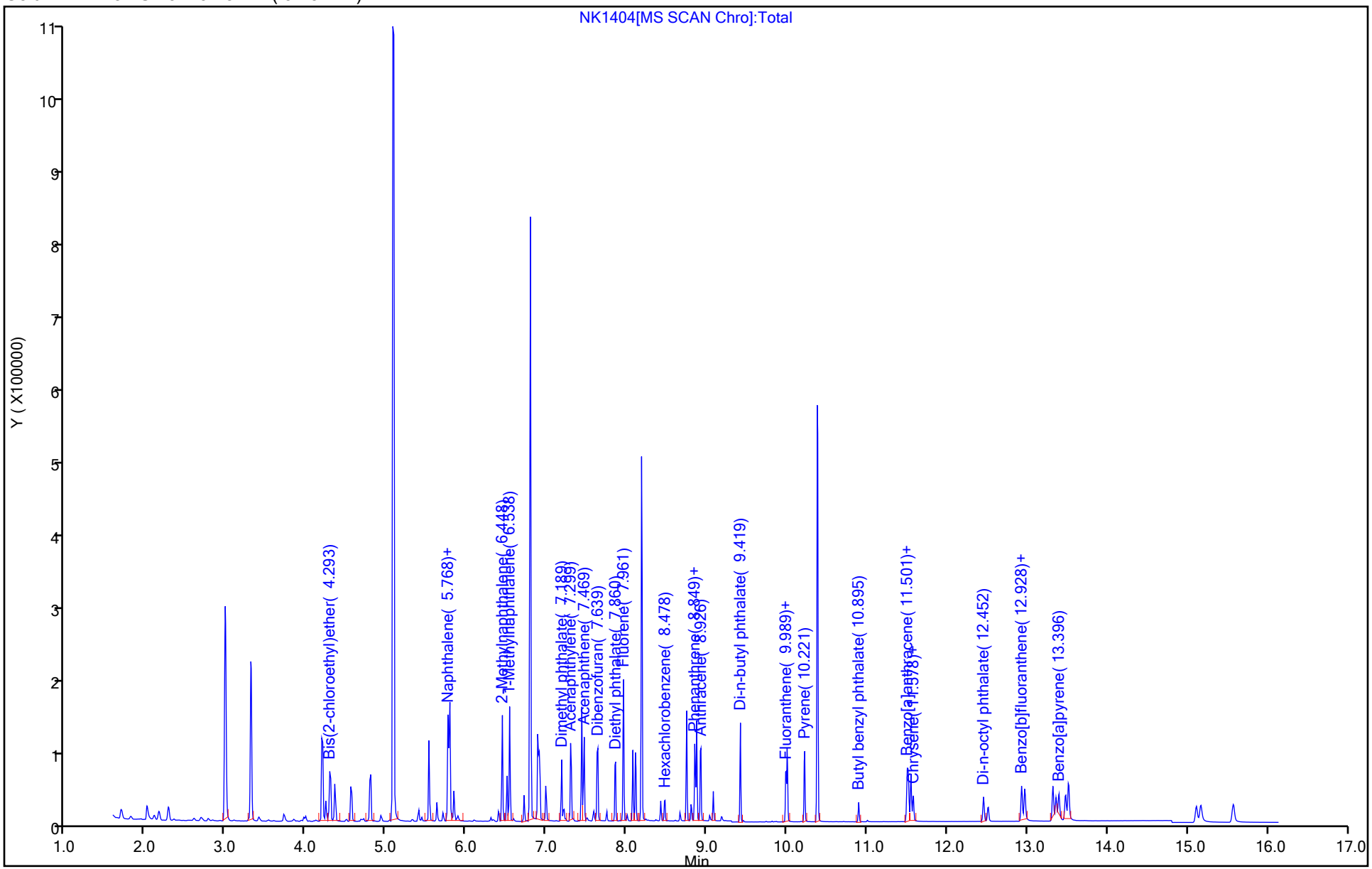
Report Date: 01-Dec-2022 04:31:47 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1404.D

Injection Date:	30-Nov-2022 06:46:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	LCSD 410-320750/3-A			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1404.D
Lims ID: LCSD 410-320750/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 30-Nov-2022 06:46:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: LCSD 410-320750/3-A
Misc. Info.: 410-0072166-005
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 01-Dec-2022 04:31:08 Calib Date: 05-Oct-2022 11:42:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0026.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: UJM0 Date: 01-Dec-2022 04:19:31

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1-Methylnaphthalene-d10	0.2500	0.1861	74.43
$ 24 Fluoranthene-d10 (Surr)	0.2500	0.1864	74.56
$ 36 Benzo(a)pyrene-d12 (Surr)	0.2500	0.2190	87.61

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

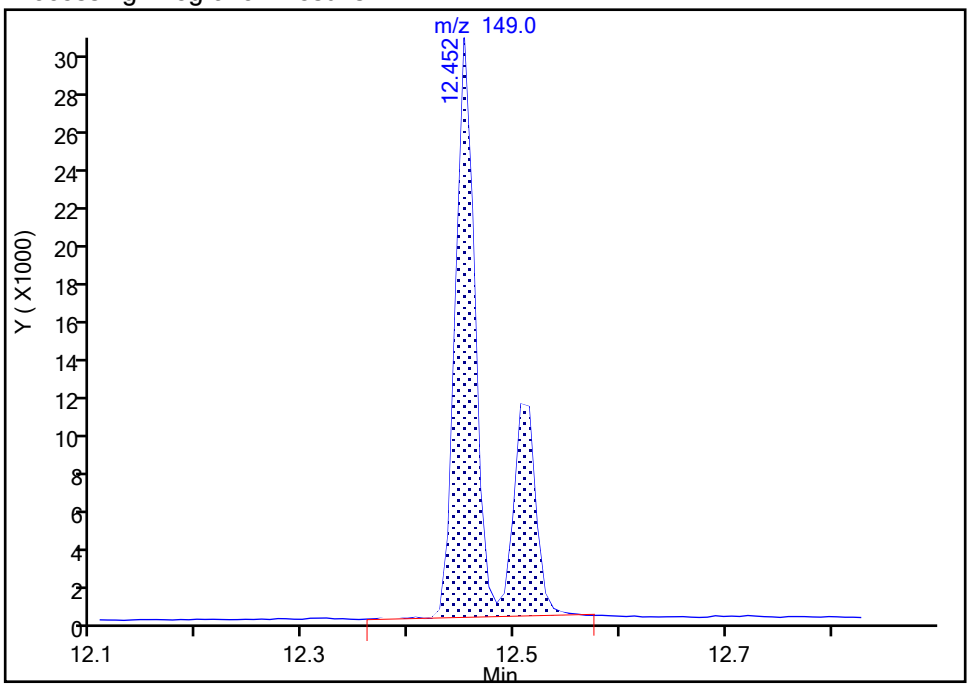
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1404.D				
Injection Date:	30-Nov-2022 06:46:30	Instrument ID:	HP23263		
Lims ID:	LCSD 410-320750/3-A				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

32 Di-n-octyl phthalate, CAS: 117-84-0

Signal: 1

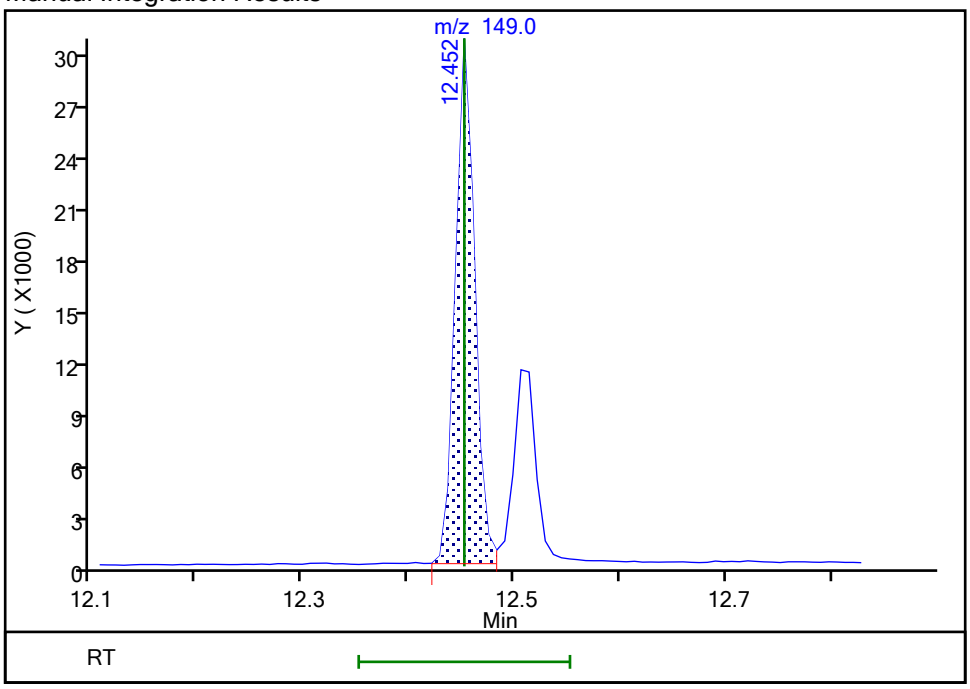
Processing Integration Results

RT: 12.45
Area: 54557
Amount: 0.348081
Amount Units: ug/ml



Manual Integration Results

RT: 12.45
Area: 38274
Amount: 0.244194
Amount Units: ug/ml



Reviewer: UJM0, 01-Dec-2022 04:19:25

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-106360-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCSD 410-323309/3-A

Matrix: Water
Lab File ID: NL0166.D

Analysis Method: 8270D SIM
Date Collected:

Extract. Method: 3510C
Date Extracted: 12/03/2022 03:22

Sample wt/vol: 250(mL)
Date Analyzed: 12/05/2022 07:13

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 323522
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	*1,4-Dioxane*	*0.382*		*0.30*	*0.10*
90-12-0	*1-Methylnaphthalene*	*0.700*		*0.050*	*0.020*
91-57-6	*2-Methylnaphthalene*	*0.616*		*0.050*	*0.020*
83-32-9	*Acenaphthene*	*0.716*		*0.050*	*0.010*
208-96-8	*Acenaphthylene*	*0.741*		*0.050*	*0.010*
120-12-7	*Anthracene*	*0.796*		*0.050*	*0.010*
56-55-3	*Benzo[a]anthracene*	*0.870*		*0.050*	*0.010*
50-32-8	*Benzo[a]pyrene*	*0.860*		*0.050*	*0.010*
205-99-2	*Benzo[b]fluoranthene*	*0.787*		*0.050*	*0.010*
191-24-2	*Benzo[g,h,i]perylene*	*0.868*		*0.050*	*0.010*
207-08-9	*Benzo[k]fluoranthene*	*0.953*		*0.050*	*0.010*
111-44-4	*Bis(2-chloroethyl)ether*	*0.853*		*0.050*	*0.020*
117-81-7	*Bis(2-ethylhexyl) phthalate*	*0.831*	*J*	*1.0*	*0.050*
85-68-7	*Butylbenzylphthalate*	*0.525*	*J*	*1.0*	*0.050*
218-01-9	*Chrysene*	*0.862*		*0.050*	*0.010*
53-70-3	*Dibenz(a,h)anthracene*	*0.780*		*0.050*	*0.020*
132-64-9	*Dibenzofuran*	*0.763*		*0.050*	*0.010*
84-66-2	*Diethylphthalate*	*0.774*	*J*	*1.0*	*0.050*
131-11-3	*Dimethylphthalate*	*0.426*	*J*	*1.0*	*0.050*
84-74-2	*Di-n-butyl phthalate*	*0.890*	*J*	*1.0*	*0.050*
117-84-0	*Di-n-octyl phthalate*	*0.743*	*J*	*1.0*	*0.050*
206-44-0	*Fluoranthene*	*0.811*		*0.050*	*0.010*
86-73-7	*Fluorene*	*0.764*		*0.050*	*0.010*
118-74-1	*Hexachlorobenzene*	*0.763*		*0.050*	*0.020*
193-39-5	*Indeno[1,2,3-cd]pyrene*	*0.796*		*0.050*	*0.020*
91-20-3	*Naphthalene*	*0.713*		*0.070*	*0.030*
62-75-9	*N-Nitrosodimethylamine*	*0.578*		*0.050*	*0.020*
85-01-8	*Phenanthrene*	*0.801*		*0.070*	*0.030*
129-00-0	*Pyrene*	*0.861*		*0.050*	*0.010*

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-106360-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 410-323309/3-A

Matrix: Water Lab File ID: NL0166.D

Analysis Method: 8270D SIM Date Collected:

Extract. Method: 3510C Date Extracted: 12/03/2022 03:22

Sample wt/vol: 250(mL) Date Analyzed: 12/05/2022 07:13

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor: Level: (low/med) Low

Analysis Batch No.: 323522 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
38072-94-5	1-Methylnaphthalene-d10 (Surr)	68		36-111
63466-71-7	Benzo(a)pyrene-d12 (Surr)	89		10-110
93951-69-0	Fluoranthene-d10 (Surr)	79		47-128

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\NL0166.D
Lims ID: LCSD 410-323309/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 05-Dec-2022 07:13:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: LCSD 410-323309/3-A
Misc. Info.: 410-0072499-007
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 05-Dec-2022 16:00:04 Calib Date: 05-Oct-2022 11:42:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0026.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1618

First Level Reviewer: UJM0 Date: 05-Dec-2022 07:54:06

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	1.670	1.670	0.013	98	8841	0.2500	0.0955	
	2 N-Nitrosodimethylamine	74	1.990	1.977	0.013	89	15183	0.2500	0.1444	
	3 Bis(2-chloroethyl)ether	93	4.293	4.293	0.000	93	41648	0.2500	0.2133	
*	4 1,4-Dichlorobenzene-d4	152	4.556	4.556	0.000	100	39030	0.2500	0.2500	
*	5 Naphthalene-d8	136	5.768	5.768	0.000	100	137710	0.2500	0.2500	
	6 Naphthalene	128	5.780	5.780	0.000	99	99467	0.2500	0.1783	
	8 2-Methylnaphthalene	142	6.448	6.445	0.003	97	54694	0.2500	0.1541	
$	9 1-Methylnaphthalene-d10	152	6.508	6.505	0.003	98	42935	0.2500	0.1695	
	10 1-Methylnaphthalene	142	6.538	6.535	0.002	98	55563	0.2500	0.1750	
	11 Dimethyl phthalate	163	7.189	7.189	0.003	98	25807	0.2500	0.1065	
	12 Acenaphthylene	152	7.299	7.299	0.002	99	80848	0.2500	0.1854	
*	13 Acenaphthene-d10	164	7.439	7.437	0.002	97	52184	0.2500	0.2500	
	14 Acenaphthene	154	7.469	7.469	0.002	89	46946	0.2500	0.1791	
	15 Dibenzofuran	168	7.630	7.640	-0.007	74	75280	0.2500	0.1908	
	16 Diethyl phthalate	149	7.853	7.853	-0.005	100	44094	0.2500	0.1936	
	17 Fluorene	166	7.953	7.961	-0.005	96	55252	0.2500	0.1910	
	19 Hexachlorobenzene	284	8.470	8.471	-0.006	98	17239	0.2500	0.1907	
*	20 Phenanthrene-d10	188	8.849	8.854	-0.005	100	83213	0.2500	0.2500	
	21 Phenanthrene	178	8.872	8.864	0.002	100	78981	0.2500	0.2003	
	22 Anthracene	178	8.918	8.918	-0.006	100	72670	0.2500	0.1990	
	23 Di-n-butyl phthalate	149	9.419	9.411	0.003	100	64239	0.2500	0.2224	
$	24 Fluoranthene-d10 (Surr)	212	9.989	9.981	0.002	96	59829	0.2500	0.1972	
	25 Fluoranthene	202	10.002	10.000	-0.004	99	74019	0.2500	0.2027	
	26 Pyrene	202	10.221	10.222	0.002	95	76471	0.2500	0.2151	
	27 Butyl benzyl phthalate	149	10.896	10.903	-0.003	100	11891	0.2500	0.1311	
	28 Benzo[a]anthracene	228	11.501	11.509	-0.004	100	56352	0.2500	0.2174	
*	29 Chrysene-d12	240	11.517	11.513	0.004	89	47595	0.2500	0.2500	
	30 Chrysene	228	11.547	11.547	0.003	100	58084	0.2500	0.2154	
	31 Bis(2-ethylhexyl) phthalate	149	11.578	11.578	0.004	100	22346	0.2500	0.2077	
	32 Di-n-octyl phthalate	149	12.453	12.453	-0.004	100	32070	0.2500	0.1857	
	33 Benzo[b]fluoranthene	252	12.928	12.920	0.004	100	49424	0.2500	0.1968	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
34 Benzo[k]fluoranthene	252	12.966	12.966	-0.004	100	65761	0.2500	0.2382	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.358	13.358	-0.003	98	37027	0.2500	0.2216	
37 Benzo[a]pyrene	252	13.388	13.388	-0.004	100	48382	0.2500	0.2150	
* 38 Perylene-d12	264	13.473	13.476	-0.003	98	43521	0.2500	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	15.104	15.103	-0.004	97	35525	0.2500	0.1989	
41 Dibenz(a,h)anthracene	278	15.160	15.160	-0.004	97	37017	0.2500	0.1949	
42 Benzo[g,h,i]perylene	276	15.563	15.562	-0.004	98	47680	0.2500	0.2169	

QC Flag Legend

Processing Flags

Reagents:

MSS_RVSIM_IS_00032 Amount Added: 10.00 Units: uL Run Reagent

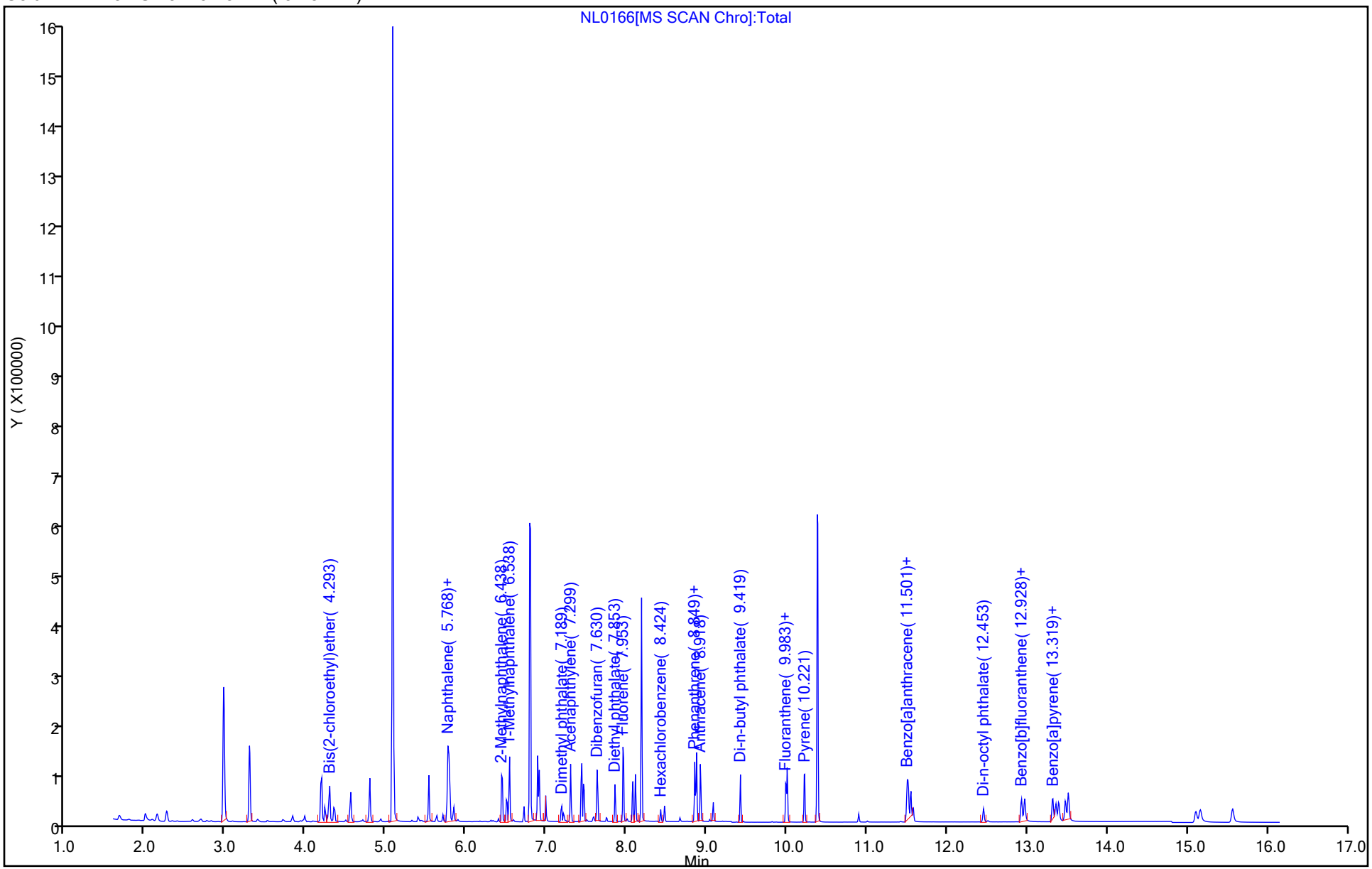
Report Date: 05-Dec-2022 16:00:28 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\NL0166.D

Injection Date:	05-Dec-2022 07:13:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	LCSD 410-323309/3-A			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\NL0166.D
Lims ID: LCSD 410-323309/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 05-Dec-2022 07:13:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: LCSD 410-323309/3-A
Misc. Info.: 410-0072499-007
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 05-Dec-2022 16:00:04 Calib Date: 05-Oct-2022 11:42:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0026.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1618

First Level Reviewer: UJM0 Date: 05-Dec-2022 07:54:06

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1-Methylnaphthalene-d10	0.2500	0.1695	67.80
$ 24 Fluoranthene-d10 (Surr)	0.2500	0.1972	78.89
$ 36 Benzo(a)pyrene-d12 (Surr)	0.2500	0.2216	88.64

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-106360-1

SDG No.:

Client Sample ID: FBW001-MS_112022 MS
Lab Sample ID: 410-106360-3 MS

Matrix: Water
Lab File ID: NK1413.D

Analysis Method: 8270D SIM
Date Collected: 11/17/2022 10:12

Extract. Method: 3510C
Date Extracted: 11/23/2022 17:30

Sample wt/vol: 240.4(mL)
Date Analyzed: 11/30/2022 09:59

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 321961
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.487		0.31	0.10
90-12-0	1-Methylnaphthalene	0.855		0.052	0.021
91-57-6	2-Methylnaphthalene	0.746		0.052	0.021
83-32-9	Acenaphthene	0.823		0.052	0.010
208-96-8	Acenaphthylene	0.838		0.052	0.010
120-12-7	Anthracene	0.927		0.052	0.010
56-55-3	Benzo[a]anthracene	0.890		0.052	0.010
50-32-8	Benzo[a]pyrene	0.855		0.052	0.010
205-99-2	Benzo[b]fluoranthene	0.876		0.052	0.010
191-24-2	Benzo[g,h,i]perylene	0.759		0.052	0.010
207-08-9	Benzo[k]fluoranthene	0.911		0.052	0.010
111-44-4	Bis(2-chloroethyl)ether	0.961		0.052	0.021
117-81-7	Bis(2-ethylhexyl) phthalate	1.11		1.0	0.052
85-68-7	Butylbenzylphthalate	0.996	J	1.0	0.052
218-01-9	Chrysene	0.883		0.052	0.010
53-70-3	Dibenz(a,h)anthracene	0.665		0.052	0.021
132-64-9	Dibenzofuran	0.886		0.052	0.010
84-66-2	Diethylphthalate	1.08		1.0	0.052
131-11-3	Dimethylphthalate	0.949	J	1.0	0.052
84-74-2	Di-n-butyl phthalate	1.73		1.0	0.052
117-84-0	Di-n-octyl phthalate	0.988	J	1.0	0.052
206-44-0	Fluoranthene	0.875		0.052	0.010
86-73-7	Fluorene	0.886		0.052	0.010
118-74-1	Hexachlorobenzene	0.914		0.052	0.021
193-39-5	Indeno[1,2,3-cd]pyrene	0.695		0.052	0.021
91-20-3	Naphthalene	0.851		0.073	0.031
62-75-9	N-Nitrosodimethylamine	0.709		0.052	0.021
85-01-8	Phenanthrene	0.920		0.073	0.031
129-00-0	Pyrene	0.914		0.052	0.010

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-106360-1

SDG No.:

Client Sample ID: FBW001-MS_112022 MS Lab Sample ID: 410-106360-3 MS

Matrix: Water Lab File ID: NK1413.D

Analysis Method: 8270D SIM Date Collected: 11/17/2022 10:12

Extract. Method: 3510C Date Extracted: 11/23/2022 17:30

Sample wt/vol: 240.4(mL) Date Analyzed: 11/30/2022 09:59

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor: Level: (low/med) Low

Analysis Batch No.: 321961 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
38072-94-5	1-Methylnaphthalene-d10 (Surr)	75		36-111
63466-71-7	Benzo(a)pyrene-d12 (Surr)	78		10-110
93951-69-0	Fluoranthene-d10 (Surr)	77		47-128

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1413.D
Lims ID: 410-106360-B-3-A MS
Client ID: FBW001-MS_112022
Sample Type: MS
Inject. Date: 30-Nov-2022 09:59:30 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-106360-B-3-A MS
Misc. Info.: 410-0072166-014
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 01-Dec-2022 04:31:08 Calib Date: 05-Oct-2022 11:42:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0026.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: UJM0 Date: 01-Dec-2022 04:26:21

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	1.683	1.666	0.017	94	10279	0.2500	0.1171	
	2 N-Nitrosodimethylamine	74	2.012	1.985	0.027	90	16991	0.2500	0.1706	
	3 Bis(2-chloroethyl)ether	93	4.306	4.306	0.013	88	42242	0.2500	0.2310	M
*	4 1,4-Dichlorobenzene-d4	152	4.568	4.568	0.000	98	36990	0.2500	0.2500	
*	5 Naphthalene-d8	136	5.768	5.768	0.000	99	129008	0.2500	0.2500	
	6 Naphthalene	128	5.793	5.805	0.000	88	106882	0.2500	0.2045	
	8 2-Methylnaphthalene	142	6.445	6.448	-0.003	95	59683	0.2500	0.1794	
$	9 1-Methylnaphthalene-d10	152	6.505	6.522	-0.003	99	44696	0.2500	0.1884	
	10 1-Methylnaphthalene	142	6.545	6.552	0.007	97	61115	0.2500	0.2055	
	11 Dimethyl phthalate	163	7.186	7.199	-0.003	100	57486	0.2500	0.2281	
	12 Acenaphthylene	152	7.307	7.319	-0.002	99	91404	0.2500	0.2015	
*	13 Acenaphthene-d10	164	7.437	7.439	-0.002	83	54284	0.2500	0.2500	
	14 Acenaphthene	154	7.467	7.469	-0.002	96	53938	0.2500	0.1978	
	15 Dibenzofuran	168	7.637	7.650	-0.003	74	87459	0.2500	0.2130	
	16 Diethyl phthalate	149	7.858	7.867	-0.002	100	61447	0.2500	0.2593	
	17 Fluorene	166	7.958	7.971	-0.003	96	64096	0.2500	0.2130	
	19 Hexachlorobenzene	284	8.476	8.486	-0.002	99	19459	0.2500	0.2198	
*	20 Phenanthrene-d10	188	8.854	8.849	0.005	100	81488	0.2500	0.2500	
	21 Phenanthrene	178	8.877	8.880	0.005	100	85433	0.2500	0.2213	
	22 Anthracene	178	8.924	8.934	-0.002	100	79683	0.2500	0.2228	
	23 Di-n-butyl phthalate	149	9.423	9.427	0.003	100	117350	0.2500	0.4149	
$	24 Fluoranthene-d10 (Surr)	212	9.987	10.008	-0.002	100	56836	0.2500	0.1913	
	25 Fluoranthene	202	10.005	10.008	-0.003	98	75214	0.2500	0.2104	
	26 Pyrene	202	10.225	10.221	0.004	95	76553	0.2500	0.2197	
	27 Butyl benzyl phthalate	149	10.899	10.903	0.004	100	21281	0.2500	0.2394	
	28 Benzo[a]anthracene	228	11.505	11.509	0.004	100	54345	0.2500	0.2139	
*	29 Chrysene-d12	240	11.521	11.517	0.004	89	46656	0.2500	0.2500	
	30 Chrysene	228	11.551	11.555	0.004	100	56135	0.2500	0.2124	
	31 Bis(2-ethylhexyl) phthalate	149	11.582	11.578	0.004	100	28204	0.2500	0.2674	
	32 Di-n-octyl phthalate	149	12.456	12.456	0.004	97	37297	0.2500	0.2376	M
	33 Benzo[b]fluoranthene	252	12.932	12.936	0.004	100	48071	0.2500	0.2106	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
34 Benzo[k]fluoranthene	252	12.970	12.974	-0.004	100	54988	0.2500	0.2191	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.361	13.365	-0.004	99	29587	0.2500	0.1948	
37 Benzo[a]pyrene	252	13.400	13.403	0.004	100	42045	0.2500	0.2055	
* 38 Perylene-d12	264	13.484	13.480	0.004	95	39566	0.2500	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	15.115	15.118	0.003	97	27148	0.2500	0.1672	
41 Dibenz(a,h)anthracene	278	15.171	15.176	0.004	97	27597	0.2500	0.1599	
42 Benzo[g,h,i]perylene	276	15.574	15.579	0.004	99	36447	0.2500	0.1824	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00032 Amount Added: 10.00 Units: uL Run Reagent

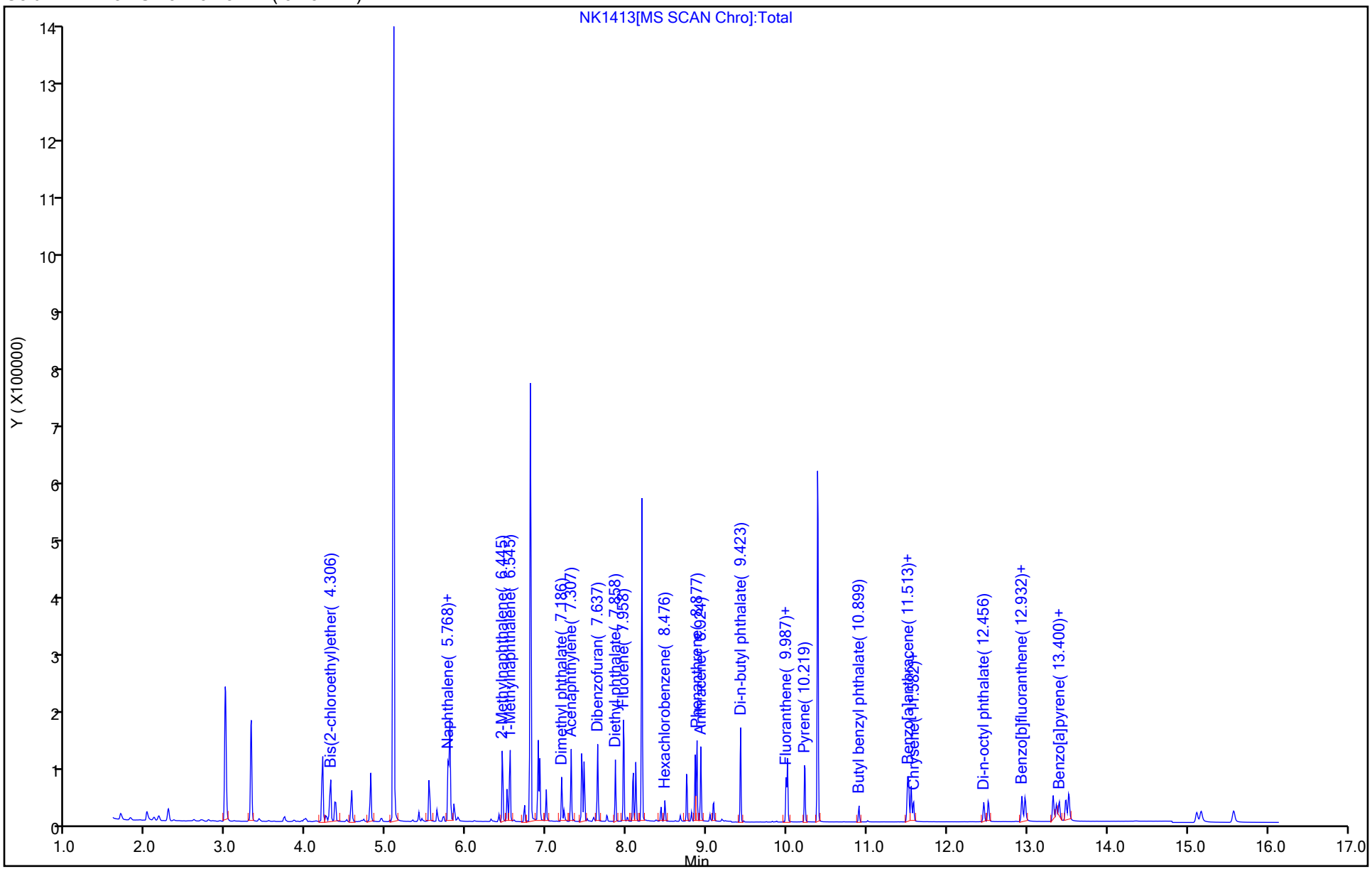
Report Date: 01-Dec-2022 04:31:51 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1413.D

Injection Date:	30-Nov-2022 09:59:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	410-106360-B-3-A MS			Worklist Smp#:	14
Client ID:	FBW001-MS_112022				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1413.D				
Lims ID:	410-106360-B-3-A MS				
Client ID:	FBW001-MS_112022				
Sample Type:	MS				
Inject. Date:	30-Nov-2022 09:59:30	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-106360-B-3-A MS				
Misc. Info.:	410-0072166-014				
Operator ID:	jmg00346	Instrument ID:	HP23263		
Method:	\\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\8270_SIM_HP23263.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	01-Dec-2022 04:31:08	Calib Date:	05-Oct-2022 11:42:30		
Integrator:	Falcon	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0026.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1611				

First Level Reviewer: UJM0 Date: 01-Dec-2022 04:26:21

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1-Methylnaphthalene-d10	0.2500	0.1884	75.34
$ 24 Fluoranthene-d10 (Surr)	0.2500	0.1913	76.53
$ 36 Benzo(a)pyrene-d12 (Surr)	0.2500	0.1948	77.91

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

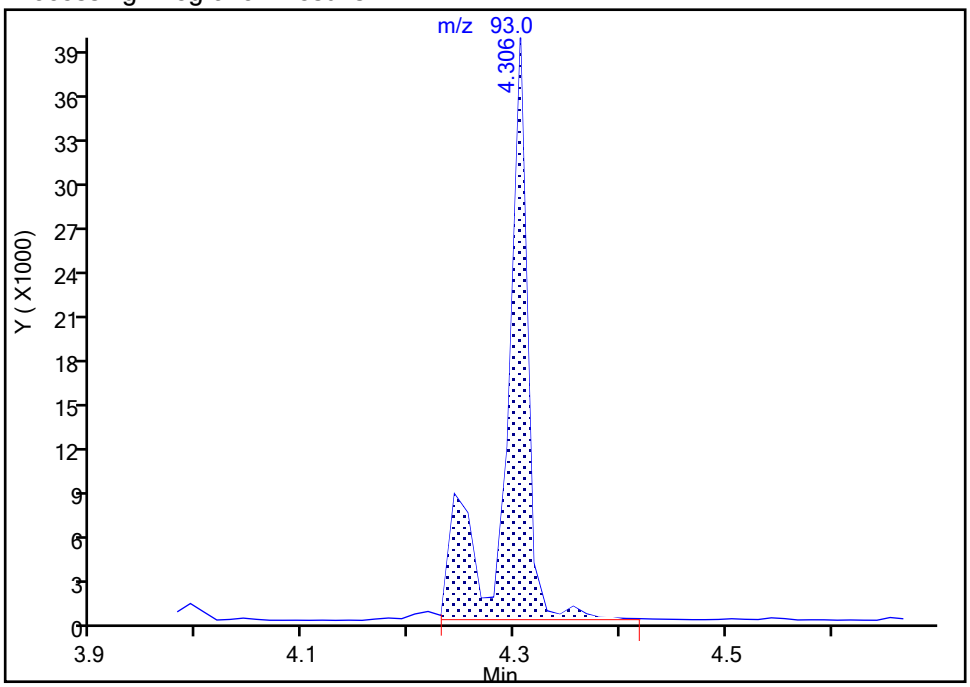
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1413.D				
Injection Date:	30-Nov-2022 09:59:30	Instrument ID:	HP23263		
Lims ID:	410-106360-B-3-A MS				
Client ID:	FBW001-MS_112022				
Operator ID:	jmg00346	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

3 Bis(2-chloroethyl)ether, CAS: 111-44-4

Signal: 1

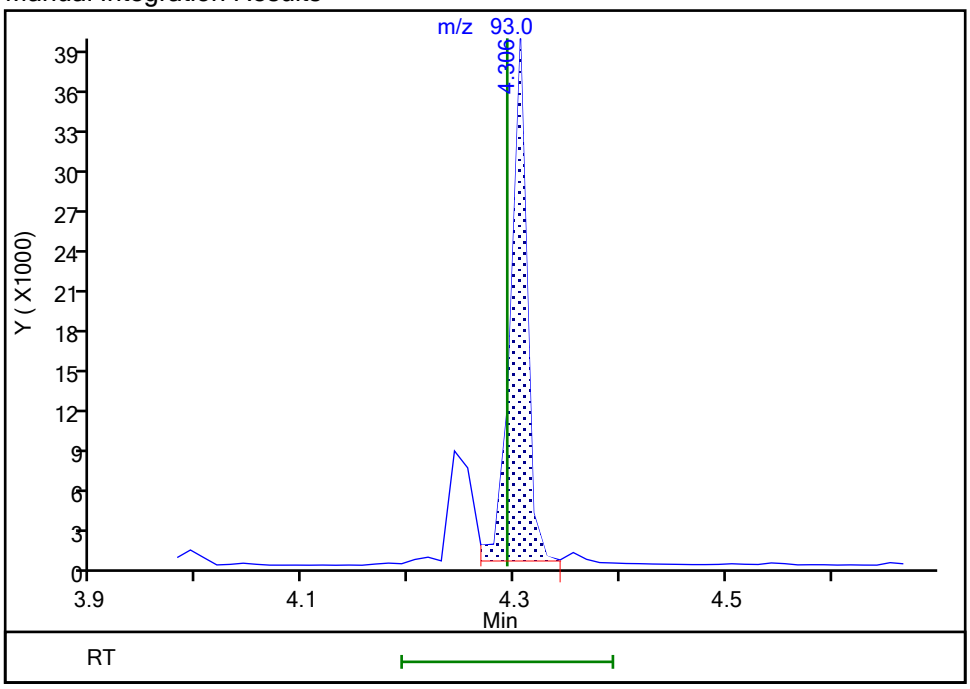
Processing Integration Results

RT: 4.31
Area: 56465
Amount: 0.308761
Amount Units: ug/ml



Manual Integration Results

RT: 4.31
Area: 42242
Amount: 0.230987
Amount Units: ug/ml



Reviewer: UJM0, 01-Dec-2022 04:25:51
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

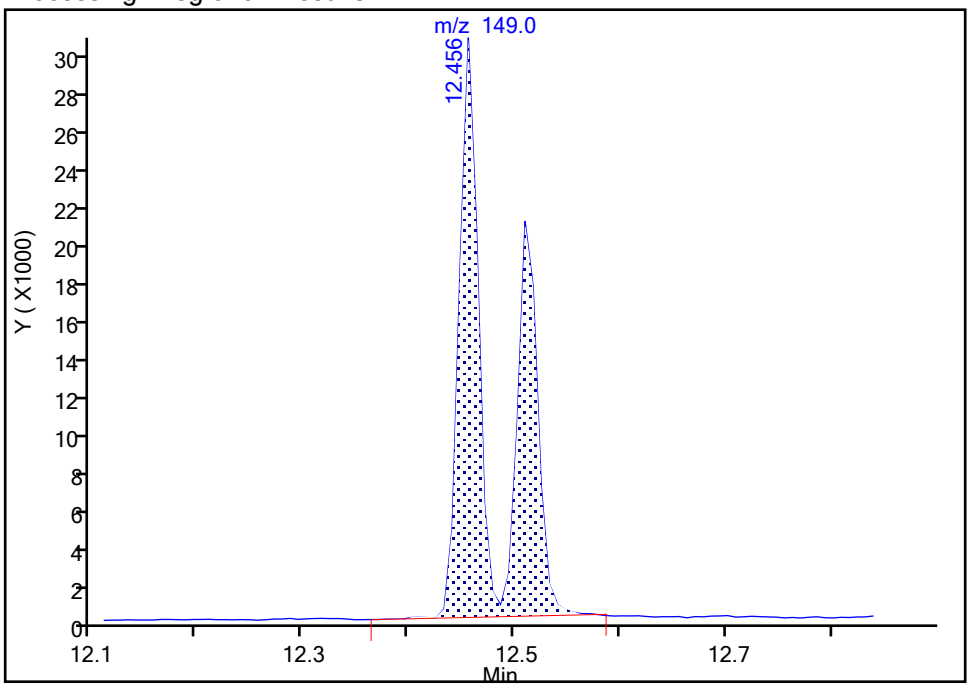
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1413.D				
Injection Date:	30-Nov-2022 09:59:30	Instrument ID:	HP23263		
Lims ID:	410-106360-B-3-A MS				
Client ID:	FBW001-MS_112022				
Operator ID:	jmg00346	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

32 Di-n-octyl phthalate, CAS: 117-84-0

Signal: 1

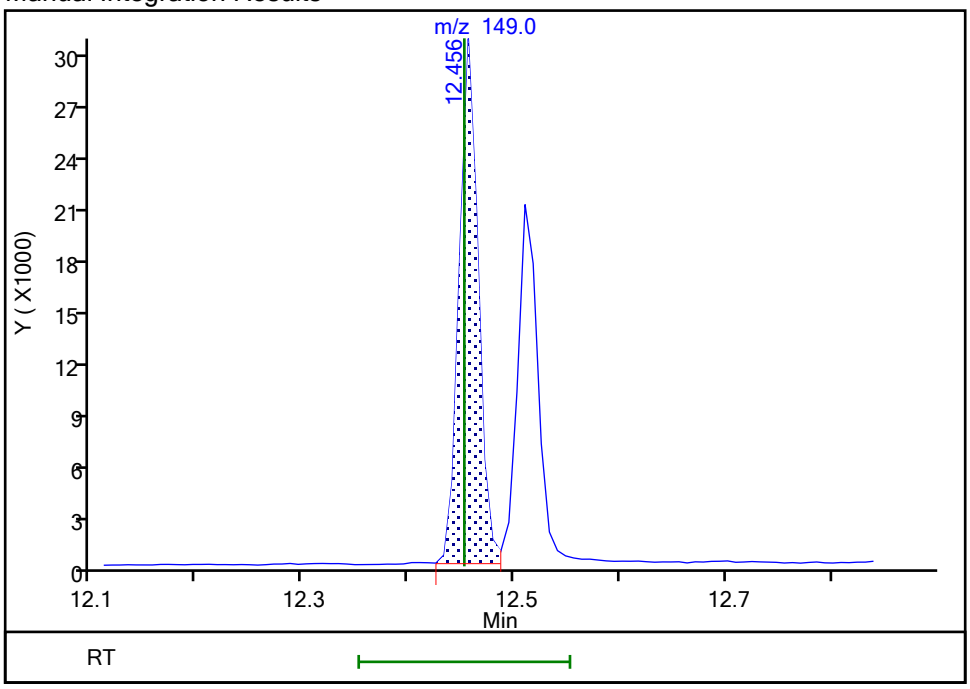
Processing Integration Results

RT: 12.46
Area: 64353
Amount: 0.409907
Amount Units: ug/ml



Manual Integration Results

RT: 12.46
Area: 37297
Amount: 0.237569
Amount Units: ug/ml



Reviewer: UJM0, 01-Dec-2022 04:26:12

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-106360-1

SDG No.:

Client Sample ID: FBW001-MS_112022 MS RE
Lab Sample ID: 410-106360-3 MS RE

Matrix: Water
Lab File ID: NL0178.D

Analysis Method: 8270D SIM
Date Collected: 11/17/2022 10:12

Extract. Method: 3510C
Date Extracted: 12/03/2022 03:22

Sample wt/vol: 238.8(mL)
Date Analyzed: 12/05/2022 11:32

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 323522
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	*1,4-Dioxane*	*0.320*		*0.31*	*0.10*
90-12-0	*1-Methylnaphthalene*	*0.557*		*0.052*	*0.021*
91-57-6	*2-Methylnaphthalene*	*0.477*		*0.052*	*0.021*
83-32-9	*Acenaphthene*	*0.574*		*0.052*	*0.010*
208-96-8	*Acenaphthylene*	*0.586*		*0.052*	*0.010*
120-12-7	*Anthracene*	*0.813*		*0.052*	*0.010*
56-55-3	*Benzo[a]anthracene*	*0.841*		*0.052*	*0.010*
50-32-8	*Benzo[a]pyrene*	*0.819*		*0.052*	*0.010*
205-99-2	*Benzo[b]fluoranthene*	*0.800*		*0.052*	*0.010*
191-24-2	*Benzo[g,h,i]perylene*	*0.663*		*0.052*	*0.010*
207-08-9	*Benzo[k]fluoranthene*	*0.854*		*0.052*	*0.010*
111-44-4	*Bis(2-chloroethyl)ether*	*0.671*		*0.052*	*0.021*
117-81-7	*Bis(2-ethylhexyl) phthalate*	*0.839*	*J*	*1.0*	*0.052*
85-68-7	*Butylbenzylphthalate*	*0.617*	*J*	*1.0*	*0.052*
218-01-9	*Chrysene*	*0.879*		*0.052*	*0.010*
53-70-3	*Dibenz(a,h)anthracene*	*0.664*		*0.052*	*0.021*
132-64-9	*Dibenzofuran*	*0.657*		*0.052*	*0.010*
84-66-2	*Diethylphthalate*	*0.745*	*J*	*1.0*	*0.052*
131-11-3	*Dimethylphthalate*	*0.396*	*J*	*1.0*	*0.052*
84-74-2	*Di-n-butyl phthalate*	*2.50*		*1.0*	*0.052*
117-84-0	*Di-n-octyl phthalate*	*0.631*	*J*	*1.0*	*0.052*
206-44-0	*Fluoranthene*	*0.823*		*0.052*	*0.010*
86-73-7	*Fluorene*	*0.701*		*0.052*	*0.010*
118-74-1	*Hexachlorobenzene*	*0.702*		*0.052*	*0.021*
193-39-5	*Indeno[1,2,3-cd]pyrene*	*0.638*		*0.052*	*0.021*
91-20-3	*Naphthalene*	*0.549*		*0.073*	*0.031*
62-75-9	*N-Nitrosodimethylamine*	*0.478*		*0.052*	*0.021*
85-01-8	*Phenanthrene*	*0.791*		*0.073*	*0.031*
129-00-0	*Pyrene*	*0.856*		*0.052*	*0.010*

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-106360-1

SDG No.:

Client Sample ID: FBW001-MS_112022 MS RE Lab Sample ID: 410-106360-3 MS RE

Matrix: Water Lab File ID: NL0178.D

Analysis Method: 8270D SIM Date Collected: 11/17/2022 10:12

Extract. Method: 3510C Date Extracted: 12/03/2022 03:22

Sample wt/vol: 238.8(mL) Date Analyzed: 12/05/2022 11:32

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor: Level: (low/med) Low

Analysis Batch No.: 323522 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
38072-94-5	1-Methylnaphthalene-d10 (Surr)	52		36-111
63466-71-7	Benzo(a)pyrene-d12 (Surr)	78		10-110
93951-69-0	Fluoranthene-d10 (Surr)	76		47-128

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\NL0178.D
Lims ID: 410-106360-C-3-B MS RE
Client ID: FBW001-MS_112022
Sample Type: MS
Inject. Date: 05-Dec-2022 11:32:30 ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-106360-C-3-B MS
Misc. Info.: 410-0072499-019
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 05-Dec-2022 16:00:35 Calib Date: 05-Oct-2022 11:42:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0026.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1618

First Level Reviewer: SJ89 Date: 05-Dec-2022 15:56:44

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	1.670	1.670	0.013	96	6946	0.2500	0.0763	
	2 N-Nitrosodimethylamine	74	1.994	1.977	0.017	90	11789	0.2500	0.1141	
	3 Bis(2-chloroethyl)ether	93	4.293	4.293	0.000	94	30727	0.2500	0.1603	
*	4 1,4-Dichlorobenzene-d4	152	4.556	4.556	0.000	99	38353	0.2500	0.2500	
*	5 Naphthalene-d8	136	5.768	5.768	0.000	100	135191	0.2500	0.2500	
	6 Naphthalene	128	5.780	5.780	0.000	99	71847	0.2500	0.1312	
	8 2-Methylnaphthalene	142	6.445	6.445	0.000	98	39706	0.2500	0.1139	
$	9 1-Methylnaphthalene-d10	152	6.505	6.505	0.000	99	32048	0.2500	0.1289	
	10 1-Methylnaphthalene	142	6.535	6.535	-0.001	96	41485	0.2500	0.1331	
	11 Dimethyl phthalate	163	7.186	7.189	0.000	98	23861	0.2500	0.0947	
	12 Acenaphthylene	152	7.297	7.299	0.000	99	63494	0.2500	0.1399	
*	13 Acenaphthene-d10	164	7.437	7.437	0.000	96	54300	0.2500	0.2500	
	14 Acenaphthene	154	7.467	7.469	0.000	94	37365	0.2500	0.1370	
	15 Dibenzofuran	168	7.637	7.640	0.000	66	64471	0.2500	0.1570	
	16 Diethyl phthalate	149	7.850	7.853	-0.008	98	42193	0.2500	0.1780	
	17 Fluorene	166	7.958	7.961	0.000	99	50377	0.2500	0.1674	
	19 Hexachlorobenzene	284	8.476	8.471	0.000	84	15177	0.2500	0.1677	
*	20 Phenanthrene-d10	188	8.846	8.854	-0.008	99	83288	0.2500	0.2500	
	21 Phenanthrene	178	8.870	8.864	0.000	100	74554	0.2500	0.1889	
	22 Anthracene	178	8.924	8.918	0.000	100	70960	0.2500	0.1941	
	23 Di-n-butyl phthalate	149	9.416	9.411	0.000	100	172463	0.2500	0.5966	
$	24 Fluoranthene-d10 (Surr)	212	9.987	9.981	0.000	97	57716	0.2500	0.1901	
	25 Fluoranthene	202	10.006	10.000	0.000	97	71841	0.2500	0.1966	
	26 Pyrene	202	10.219	10.222	0.000	97	72937	0.2500	0.2045	
	27 Butyl benzyl phthalate	149	10.892	10.903	-0.007	100	13411	0.2500	0.1474	
	28 Benzo[a]anthracene	228	11.498	11.509	-0.007	76	52214	0.2500	0.2008	
*	29 Chrysene-d12	240	11.513	11.513	0.000	94	47751	0.2500	0.2500	
	30 Chrysene	228	11.544	11.547	0.000	100	56785	0.2500	0.2099	
	31 Bis(2-ethylhexyl) phthalate	149	11.574	11.578	0.000	99	21625	0.2500	0.2003	
	32 Di-n-octyl phthalate	149	12.449	12.453	-0.007	97	26291	0.2500	0.1506	
	33 Benzo[b]fluoranthene	252	12.924	12.920	0.000	100	48465	0.2500	0.1910	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
34 Benzo[k]fluoranthene	252	12.963	12.966	-0.007	100	56871	0.2500	0.2038	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.354	13.358	-0.007	98	33129	0.2500	0.1962	
37 Benzo[a]pyrene	252	13.392	13.388	0.000	100	44468	0.2500	0.1955	
* 38 Perylene-d12	264	13.476	13.476	0.000	96	43984	0.2500	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	15.101	15.103	-0.008	97	27487	0.2500	0.1523	
41 Dibenz(a,h)anthracene	278	15.157	15.160	-0.007	97	30427	0.2500	0.1586	
42 Benzo[g,h,i]perylene	276	15.560	15.562	-0.007	99	35190	0.2500	0.1584	

QC Flag Legend

Processing Flags

Reagents:

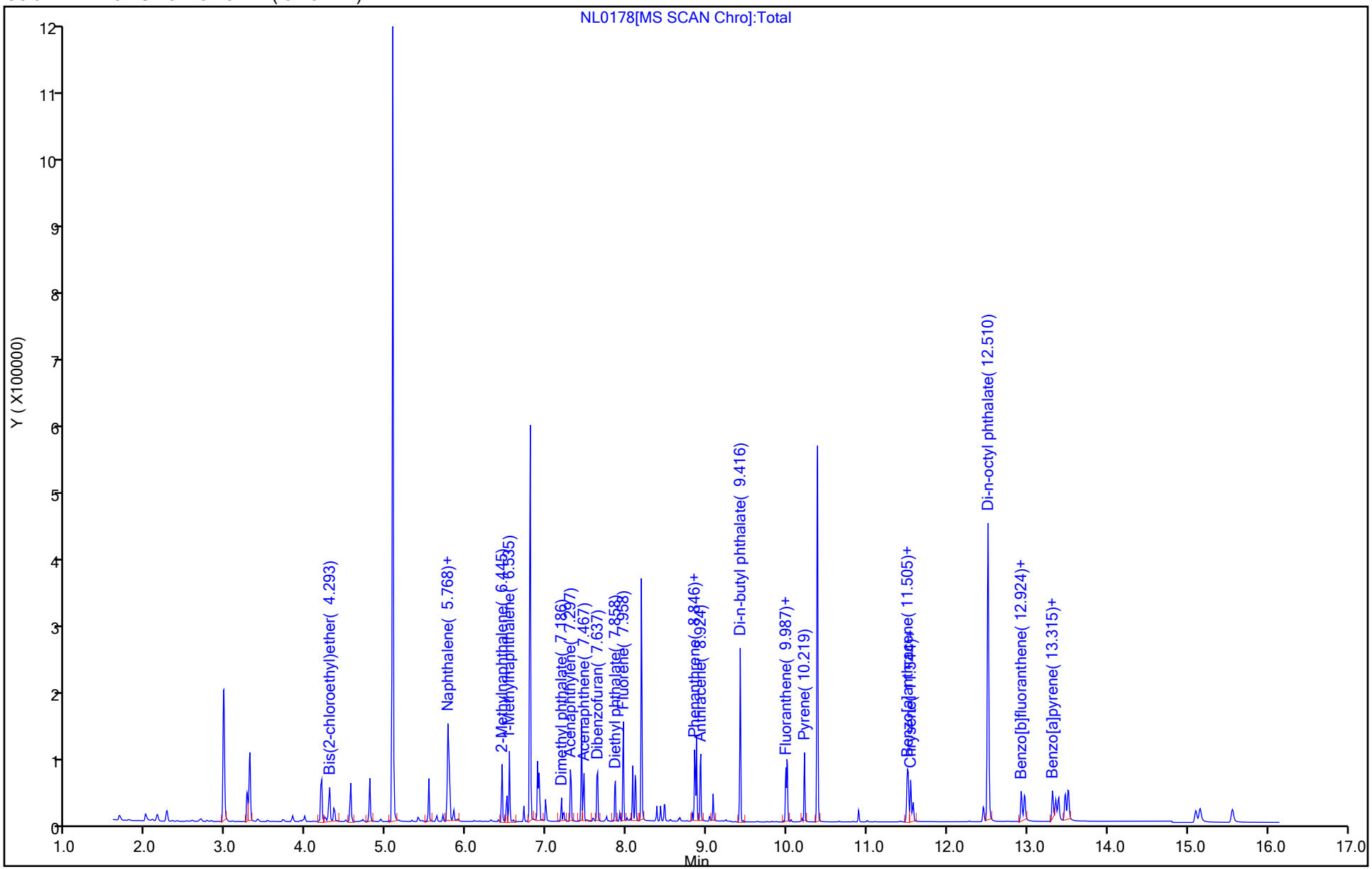
MSS_RVSIM_IS_00032 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 05-Dec-2022 16:00:41 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\NL0178.D				
Injection Date:	05-Dec-2022 11:32:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	410-106360-C-3-B MS RE			Worklist Smp#:	19
Client ID:	FBW001-MS_112022				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\NL0178.D				
Lims ID:	410-106360-C-3-B MS RE				
Client ID:	FBW001-MS_112022				
Sample Type:	MS				
Inject. Date:	05-Dec-2022 11:32:30	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-106360-C-3-B MS				
Misc. Info.:	410-0072499-019				
Operator ID:	jmg00346	Instrument ID:	HP23263		
Method:	\\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\8270_SIM_HP23263.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	05-Dec-2022 16:00:35	Calib Date:	05-Oct-2022 11:42:30		
Integrator:	Falcon	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0026.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1618				

First Level Reviewer: SJ89 Date: 05-Dec-2022 15:56:44

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1-Methylnaphthalene-d10	0.2500	0.1289	51.55
$ 24 Fluoranthene-d10 (Surr)	0.2500	0.1901	76.04
$ 36 Benzo(a)pyrene-d12 (Surr)	0.2500	0.1962	78.47

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-106360-1

SDG No.:

Client Sample ID: FBW001-MSD_112022 MSD
Lab Sample ID: 410-106360-3 MSD

Matrix: Water
Lab File ID: NK1414a.D

Analysis Method: 8270D SIM
Date Collected: 11/17/2022 10:17

Extract. Method: 3510C
Date Extracted: 11/23/2022 17:30

Sample wt/vol: 246.4(mL)
Date Analyzed: 11/30/2022 15:11

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 321961
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.500		0.30	0.10
90-12-0	1-Methylnaphthalene	0.809		0.051	0.020
91-57-6	2-Methylnaphthalene	0.729		0.051	0.020
83-32-9	Acenaphthene	0.817		0.051	0.010
208-96-8	Acenaphthylene	0.811		0.051	0.010
120-12-7	Anthracene	0.881		0.051	0.010
56-55-3	Benzo[a]anthracene	0.891		0.051	0.010
50-32-8	Benzo[a]pyrene	0.847		0.051	0.010
205-99-2	Benzo[b]fluoranthene	0.817		0.051	0.010
191-24-2	Benzo[g,h,i]perylene	0.753		0.051	0.010
207-08-9	Benzo[k]fluoranthene	0.911		0.051	0.010
111-44-4	Bis(2-chloroethyl)ether	0.942		0.051	0.020
117-81-7	Bis(2-ethylhexyl) phthalate	1.12		1.0	0.051
85-68-7	Butylbenzylphthalate	0.952	J	1.0	0.051
218-01-9	Chrysene	0.926		0.051	0.010
53-70-3	Dibenz(a,h)anthracene	0.619		0.051	0.020
132-64-9	Dibenzofuran	0.819		0.051	0.010
84-66-2	Diethylphthalate	0.959	J	1.0	0.051
131-11-3	Dimethylphthalate	0.912	J	1.0	0.051
84-74-2	Di-n-butyl phthalate	1.91		1.0	0.051
117-84-0	Di-n-octyl phthalate	0.858	J	1.0	0.051
206-44-0	Fluoranthene	0.801		0.051	0.010
86-73-7	Fluorene	0.819		0.051	0.010
118-74-1	Hexachlorobenzene	0.952		0.051	0.020
193-39-5	Indeno[1,2,3-cd]pyrene	0.676		0.051	0.020
91-20-3	Naphthalene	0.790		0.071	0.030
62-75-9	N-Nitrosodimethylamine	0.786		0.051	0.020
85-01-8	Phenanthrene	0.886		0.071	0.030
129-00-0	Pyrene	0.941		0.051	0.010

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-106360-1

SDG No.:

Client Sample ID: FBW001-MSD_112022 MSD Lab Sample ID: 410-106360-3 MSD

Matrix: Water Lab File ID: NK1414a.D

Analysis Method: 8270D SIM Date Collected: 11/17/2022 10:17

Extract. Method: 3510C Date Extracted: 11/23/2022 17:30

Sample wt/vol: 246.4(mL) Date Analyzed: 11/30/2022 15:11

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor: Level: (low/med) Low

Analysis Batch No.: 321961 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
38072-94-5	1-Methylnaphthalene-d10 (Surr)	75		36-111
63466-71-7	Benzo(a)pyrene-d12 (Surr)	77		10-110
93951-69-0	Fluoranthene-d10 (Surr)	73		47-128

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1414a.D
Lims ID: 410-106360-B-3-B MSD
Client ID: FBW001-MSD_112022
Sample Type: MSD
Inject. Date: 30-Nov-2022 15:11:30 ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-106360-B-3-B MSD
Misc. Info.: 410-0072166-015
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 02-Dec-2022 08:18:33 Calib Date: 05-Oct-2022 11:42:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0026.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1637

First Level Reviewer: phakdeer Date: 02-Dec-2022 08:19:21

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	1.692	1.666	0.026	96	11886		0.1232	
	2 N-Nitrosodimethylamine	74	2.016	1.985	0.031	90	21220		0.1937	
	3 Bis(2-chloroethyl)ether	93	4.306	4.302	0.013	88	49456		0.2322	
*	4 1,4-Dichlorobenzene-d4	152	4.568	4.568	0.000	82	40677	0.2500	0.2500	
*	5 Naphthalene-d8	136	5.780	5.768	0.012	100	150251	0.2500	0.2500	
	6 Naphthalene	128	5.793	5.805	0.000	98	118454		0.1946	
	8 2-Methylnaphthalene	142	6.458	6.462	0.010	99	69587		0.1796	
$	9 1-Methylnaphthalene-d10	152	6.518	6.522	0.010	99	52053		0.1883	
	10 1-Methylnaphthalene	142	6.548	6.552	0.010	98	69080		0.1994	
	11 Dimethyl phthalate	163	7.199	7.199	0.010	98	63250		0.2248	
	12 Acenaphthylene	152	7.309	7.319	0.000	100	101201		0.1997	
*	13 Acenaphthene-d10	164	7.449	7.439	0.010	99	60625	0.2500	0.2500	
	14 Acenaphthene	154	7.479	7.479	0.010	92	61285		0.2012	
	15 Dibenzofuran	168	7.640	7.650	0.000	72	92499		0.2018	
	16 Diethyl phthalate	149	7.861	7.867	0.001	99	62553		0.2364	
	17 Fluorene	166	7.969	7.972	0.008	100	67808		0.2018	
	19 Hexachlorobenzene	284	8.486	8.486	0.008	88	21351		0.2347	
*	20 Phenanthrene-d10	188	8.857	8.849	0.008	99	83735	0.2500	0.2500	
	21 Phenanthrene	178	8.880	8.880	0.008	100	86618		0.2183	
	22 Anthracene	178	8.934	8.934	0.008	100	79753		0.2170	
	23 Di-n-butyl phthalate	149	9.425	9.427	0.006	100	136532		0.4697	
$	24 Fluoranthene-d10 (Surr)	212	9.996	9.998	0.007	97	55359		0.1814	
	25 Fluoranthene	202	10.014	10.017	0.006	97	72548		0.1975	
	26 Pyrene	202	10.228	10.228	0.007	97	74352		0.2318	
	27 Butyl benzyl phthalate	149	10.903	10.903	0.008	100	19192		0.2346	
	28 Benzo[a]anthracene	228	11.509	11.509	0.008	76	51354		0.2196	
*	29 Chrysene-d12	240	11.525	11.517	0.008	93	42942	0.2500	0.2500	
	30 Chrysene	228	11.555	11.555	0.008	100	55479		0.2281	
	31 Bis(2-ethylhexyl) phthalate	149	11.586	11.586	0.008	99	26689		0.2749	
	32 Di-n-octyl phthalate	149	12.460	12.460	0.008	98	32786		0.2113	
	33 Benzo[b]fluoranthene	252	12.936	12.935	0.008	100	45428		0.2013	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
34 Benzo[k]fluoranthene	252	12.982	12.982	0.008	100	55708		0.2246	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.373	13.373	0.008	97	28743		0.1915	
37 Benzo[a]pyrene	252	13.404	13.404	0.008	100	42200		0.2087	
* 38 Perylene-d12	264	13.488	13.480	0.008	97	39104	0.2500	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	15.125	15.120	0.014	98	26718		0.1665	
41 Dibenz(a,h)anthracene	278	15.182	15.176	0.015	97	26020		0.1525	
42 Benzo[g,h,i]perylene	276	15.584	15.579	0.014	99	36661		0.1856	

QC Flag Legend

Processing Flags

Reagents:

MSS_RVSIM_IS_00032 Amount Added: 10.00 Units: uL Run Reagent

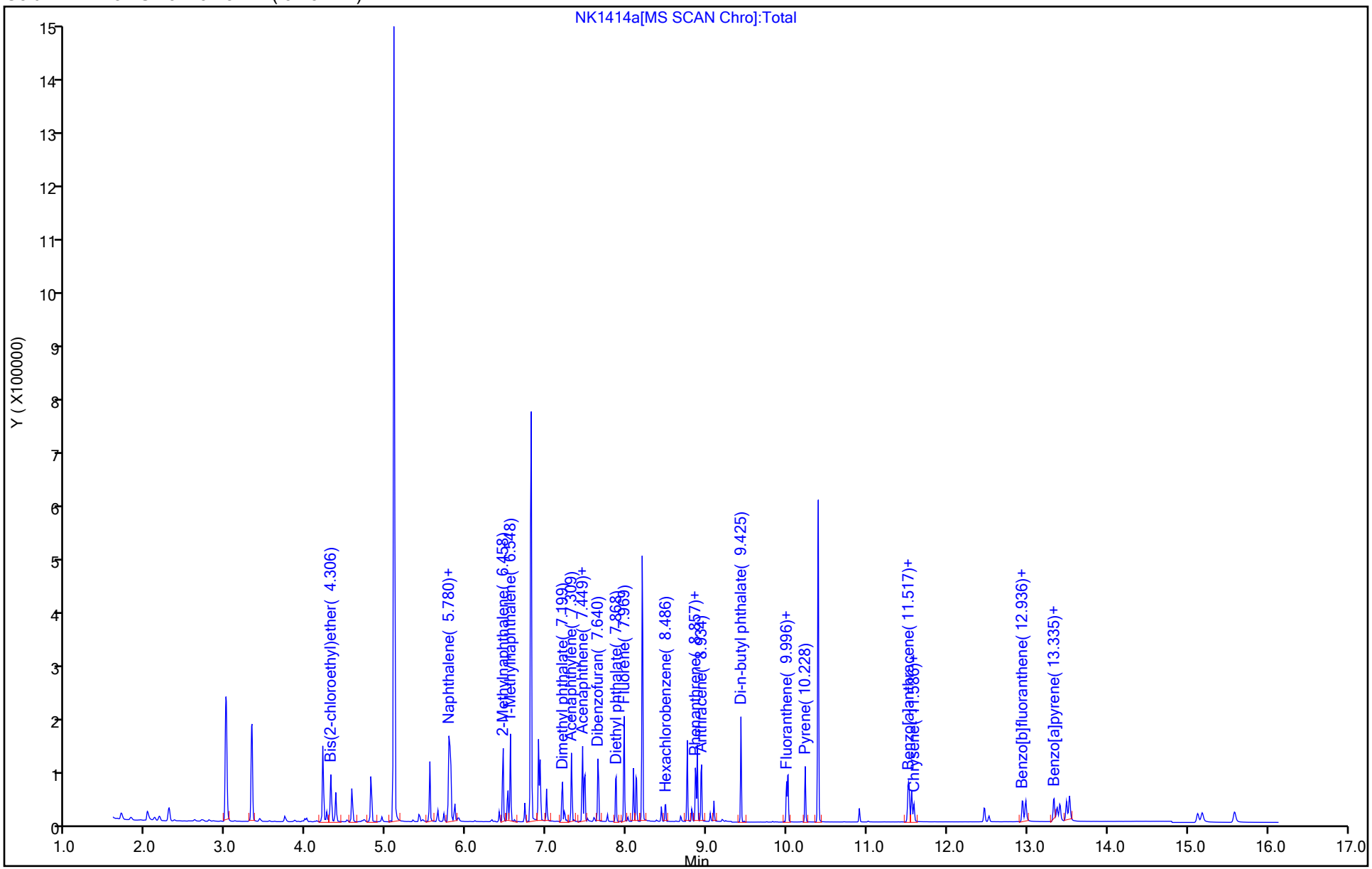
Report Date: 02-Dec-2022 08:19:21 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1414a.D

Injection Date:	30-Nov-2022 15:11:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	410-106360-B-3-B MSD			Worklist Smp#:	15
Client ID:	FBW001-MSD_112022				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\NK1414a.D				
Lims ID:	410-106360-B-3-B MSD				
Client ID:	FBW001-MSD_112022				
Sample Type:	MSD				
Inject. Date:	30-Nov-2022 15:11:30	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-106360-B-3-B MSD				
Misc. Info.:	410-0072166-015				
Operator ID:	jmg00346	Instrument ID:	HP23263		
Method:	\\chromfs\Lancaster\ChromData\HP23263\20221130-72166.b\8270_SIM_HP23263.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	02-Dec-2022 08:18:33	Calib Date:	05-Oct-2022 11:42:30		
Integrator:	Falcon	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0026.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1637				
First Level Reviewer: phakdeer		Date:	02-Dec-2022 08:19:21		

Compound	Amount Added	Amount Recovered	% Rec.

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-106360-1

SDG No.:

Client Sample ID: FBW001-MSD_112022 MSD RE
Lab Sample ID: 410-106360-3 MSD RE

Matrix: Water
Lab File ID: NL0179.D

Analysis Method: 8270D SIM
Date Collected: 11/17/2022 10:17

Extract. Method: 3510C
Date Extracted: 12/03/2022 03:22

Sample wt/vol: 235(mL)
Date Analyzed: 12/05/2022 11:54

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 323522
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	*1,4-Dioxane*	*0.252*	*J*	*0.32*	*0.11*
90-12-0	*1-Methylnaphthalene*	*0.550*		*0.053*	*0.021*
91-57-6	*2-Methylnaphthalene*	*0.478*		*0.053*	*0.021*
83-32-9	*Acenaphthene*	*0.584*		*0.053*	*0.011*
208-96-8	*Acenaphthylene*	*0.576*		*0.053*	*0.011*
120-12-7	*Anthracene*	*0.758*		*0.053*	*0.011*
56-55-3	*Benzo[a]anthracene*	*0.862*		*0.053*	*0.011*
50-32-8	*Benzo[a]pyrene*	*0.850*		*0.053*	*0.011*
205-99-2	*Benzo[b]fluoranthene*	*0.831*		*0.053*	*0.011*
191-24-2	*Benzo[g,h,i]perylene*	*0.681*		*0.053*	*0.011*
207-08-9	*Benzo[k]fluoranthene*	*0.882*		*0.053*	*0.011*
111-44-4	*Bis(2-chloroethyl)ether*	*0.613*		*0.053*	*0.021*
117-81-7	*Bis(2-ethylhexyl) phthalate*	*0.826*	*J*	*1.1*	*0.053*
85-68-7	*Butylbenzylphthalate*	*0.463*	*J*	*1.1*	*0.053*
218-01-9	*Chrysene*	*0.886*		*0.053*	*0.011*
53-70-3	*Dibenz(a,h)anthracene*	*0.660*		*0.053*	*0.021*
132-64-9	*Dibenzofuran*	*0.630*		*0.053*	*0.011*
84-66-2	*Diethylphthalate*	*0.670*	*J*	*1.1*	*0.053*
131-11-3	*Dimethylphthalate*	*0.297*	*J*	*1.1*	*0.053*
84-74-2	*Di-n-butyl phthalate*	*2.72*		*1.1*	*0.053*
117-84-0	*Di-n-octyl phthalate*	*0.634*	*J*	*1.1*	*0.053*
206-44-0	*Fluoranthene*	*0.800*		*0.053*	*0.011*
86-73-7	*Fluorene*	*0.655*		*0.053*	*0.011*
118-74-1	*Hexachlorobenzene*	*0.667*		*0.053*	*0.021*
193-39-5	*Indeno[1,2,3-cd]pyrene*	*0.634*		*0.053*	*0.021*
91-20-3	*Naphthalene*	*0.510*		*0.074*	*0.032*
62-75-9	*N-Nitrosodimethylamine*	*0.406*		*0.053*	*0.021*
85-01-8	*Phenanthrene*	*0.742*		*0.074*	*0.032*
129-00-0	*Pyrene*	*0.915*		*0.053*	*0.011*

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-106360-1

SDG No.:

Client Sample ID: FBW001-MSD_112022 MSD RE Lab Sample ID: 410-106360-3 MSD RE

Matrix: Water Lab File ID: NL0179.D

Analysis Method: 8270D SIM Date Collected: 11/17/2022 10:17

Extract. Method: 3510C Date Extracted: 12/03/2022 03:22

Sample wt/vol: 235(mL) Date Analyzed: 12/05/2022 11:54

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor: Level: (low/med) Low

Analysis Batch No.: 323522 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
38072-94-5	1-Methylnaphthalene-d10 (Surr)	50		36-111
63466-71-7	Benzo(a)pyrene-d12 (Surr)	79		10-110
93951-69-0	Fluoranthene-d10 (Surr)	75		47-128

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\NL0179.D
Lims ID: 410-106360-C-3-C MSD RE
Client ID: FBW001-MSD_112022
Sample Type: MSD
Inject. Date: 05-Dec-2022 11:54:30 ALS Bottle#: 20 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-106360-C-3-C MSD
Misc. Info.: 410-0072499-020
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 05-Dec-2022 16:00:35 Calib Date: 05-Oct-2022 11:42:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0026.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1618

First Level Reviewer: SJ89 Date: 05-Dec-2022 15:57:05

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	1.670	1.670	0.013	98	5661	0.2500	0.0593	
	2 N-Nitrosodimethylamine	74	1.994	1.977	0.017	90	10340	0.2500	0.0954	
	3 Bis(2-chloroethyl)ether	93	4.293	4.293	0.000	94	27909	0.2500	0.1441	
*	4 1,4-Dichlorobenzene-d4	152	4.556	4.556	0.000	99	40225	0.2500	0.2500	
*	5 Naphthalene-d8	136	5.768	5.768	0.000	100	136663	0.2500	0.2500	
	6 Naphthalene	128	5.780	5.780	0.000	99	66289	0.2500	0.1197	
	8 2-Methylnaphthalene	142	6.445	6.445	0.000	96	39602	0.2500	0.1124	
$	9 1-Methylnaphthalene-d10	152	6.506	6.505	0.001	98	31486	0.2500	0.1253	
	10 1-Methylnaphthalene	142	6.536	6.535	0.000	97	40746	0.2500	0.1293	
	11 Dimethyl phthalate	163	7.187	7.189	0.001	98	17717	0.2500	0.0698	
	12 Acenaphthylene	152	7.297	7.299	0.000	99	61859	0.2500	0.1353	
*	13 Acenaphthene-d10	164	7.437	7.437	0.000	98	54710	0.2500	0.2500	
	14 Acenaphthene	154	7.467	7.469	0.000	92	37696	0.2500	0.1372	
	15 Dibenzofuran	168	7.637	7.640	0.000	66	61285	0.2500	0.1481	
	16 Diethyl phthalate	149	7.850	7.853	-0.008	99	37608	0.2500	0.1575	
	17 Fluorene	166	7.958	7.961	0.000	100	46677	0.2500	0.1539	
	19 Hexachlorobenzene	284	8.476	8.471	0.000	88	14550	0.2500	0.1568	
*	20 Phenanthrene-d10	188	8.847	8.854	-0.007	99	85385	0.2500	0.2500	
	21 Phenanthrene	178	8.870	8.864	0.000	100	70584	0.2500	0.1745	
	22 Anthracene	178	8.924	8.918	0.000	100	66746	0.2500	0.1781	
	23 Di-n-butyl phthalate	149	9.416	9.411	0.000	100	189543	0.2500	0.6395	
$	24 Fluoranthene-d10 (Surr)	212	9.987	9.981	0.000	97	58609	0.2500	0.1883	
	25 Fluoranthene	202	9.999	10.000	-0.007	100	70464	0.2500	0.1881	
	26 Pyrene	202	10.219	10.222	0.000	96	75360	0.2500	0.2150	
	27 Butyl benzyl phthalate	149	10.892	10.903	-0.007	100	9733	0.2500	0.1089	
	28 Benzo[a]anthracene	228	11.498	11.509	-0.007	81	51758	0.2500	0.2025	
*	29 Chrysene-d12	240	11.513	11.513	0.000	92	46932	0.2500	0.2500	
	30 Chrysene	228	11.544	11.547	0.000	100	55366	0.2500	0.2083	
	31 Bis(2-ethylhexyl) phthalate	149	11.574	11.578	0.000	99	20593	0.2500	0.1941	
	32 Di-n-octyl phthalate	149	12.449	12.453	-0.007	100	24799	0.2500	0.1489	
	33 Benzo[b]fluoranthene	252	12.924	12.920	0.000	100	47292	0.2500	0.1953	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
34 Benzo[k]fluoranthene	252	12.963	12.966	-0.007	100	55188	0.2500	0.2073	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.354	13.358	-0.007	99	31878	0.2500	0.1978	
37 Benzo[a]pyrene	252	13.392	13.388	0.000	100	43370	0.2500	0.1998	
* 38 Perylene-d12	264	13.476	13.476	0.000	95	41976	0.2500	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	15.101	15.103	-0.007	97	25653	0.2500	0.1489	
41 Dibenz(a,h)anthracene	278	15.157	15.160	-0.007	98	28411	0.2500	0.1551	
42 Benzo[g,h,i]perylene	276	15.560	15.562	-0.007	99	33935	0.2500	0.1601	

QC Flag Legend

Processing Flags

Reagents:

MSS_RVSIM_IS_00032 Amount Added: 10.00 Units: uL Run Reagent

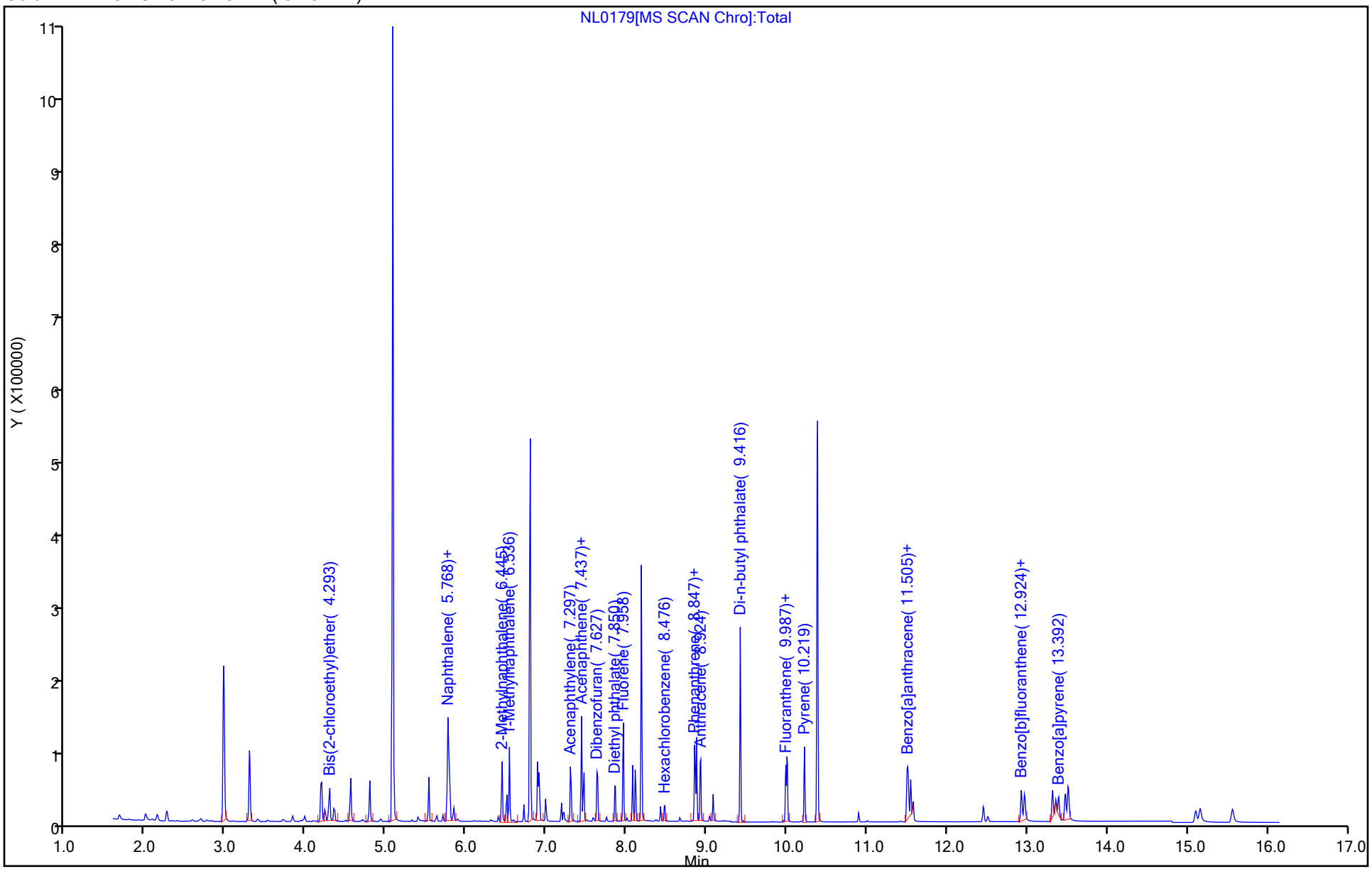
Report Date: 05-Dec-2022 16:00:42 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\NL0179.D

Injection Date:	05-Dec-2022 11:54:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	410-106360-C-3-C MSD RE			Worklist Smp#:	20
Client ID:	FBW001-MSD_112022				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\NL0179.D
Lims ID: 410-106360-C-3-C MSD RE
Client ID: FBW001-MSD_112022
Sample Type: MSD
Inject. Date: 05-Dec-2022 11:54:30 ALS Bottle#: 20 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-106360-C-3-C MSD
Misc. Info.: 410-0072499-020
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20221205-72499.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 05-Dec-2022 16:00:35 Calib Date: 05-Oct-2022 11:42:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20221005-67959.b\NJ0026.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1618

First Level Reviewer: SJ89 Date: 05-Dec-2022 15:57:05

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1-Methylnaphthalene-d10	0.2500	0.1253	50.10
$ 24 Fluoranthene-d10 (Surr)	0.2500	0.1883	75.32
$ 36 Benzo(a)pyrene-d12 (Surr)	0.2500	0.1978	79.12

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-106360-1

SDG No.:

Instrument ID: HP21585 Start Date: 07/28/2022 18:23

Analysis Batch Number: 280637 End Date: 07/28/2022 22:36

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-280637/1		07/28/2022 18:23	1	MG1350.D	DB-5MS 30m 0.25 0.25(mm)
ICIS 410-280637/2		07/28/2022 19:23	1	MG1351b.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-280637/3		07/28/2022 20:06	1	MG1352.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-280637/4		07/28/2022 20:27	1	MG1353.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-280637/5		07/28/2022 20:49	1	MG1354.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-280637/6		07/28/2022 21:10	1	MG1355.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-280637/7		07/28/2022 21:32	1	MG1356.D	DB-5MS 30m 0.25 0.25(mm)
ICVL 410-280637/8		07/28/2022 21:53	1		DB-5MS 30m 0.25 0.25(mm)
ICV 410-280637/9		07/28/2022 22:14	1	MG1358.D	DB-5MS 30m 0.25 0.25(mm)
ICV 410-280637/10		07/28/2022 22:36	1		DB-5MS 30m 0.25 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-106360-1

SDG No.:

Instrument ID: HP23263 Start Date: 10/05/2022 09:35

Analysis Batch Number: 303206 End Date: 10/05/2022 12:47

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-303206/1		10/05/2022 09:35	1	NJ0020.D	DB-5MS 30m 0.25 0.25(mm)
ICIS 410-303206/2		10/05/2022 09:51	1	NJ0021.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-303206/3		10/05/2022 10:15	1	NJ0022.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-303206/4		10/05/2022 10:37	1	NJ0023.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-303206/5		10/05/2022 10:59	1	NJ0024.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-303206/6		10/05/2022 11:20	1	NJ0025.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-303206/7		10/05/2022 11:42	1	NJ0026.D	DB-5MS 30m 0.25 0.25(mm)
ICVL 410-303206/8		10/05/2022 12:04	1		DB-5MS 30m 0.25 0.25(mm)
ICV 410-303206/9		10/05/2022 12:25	1	NJ0028.D	DB-5MS 30m 0.25 0.25(mm)
ICV 410-303206/10		10/05/2022 12:47	1		DB-5MS 30m 0.25 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-106360-1

SDG No.:

Instrument ID: HP23263 Start Date: 11/30/2022 05:12

Analysis Batch Number: 321961 End Date: 11/30/2022 16:58

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-321961/1		11/30/2022 05:12	1	NK1400.D	DB-5MS 30m 0.25 0.25(mm)
CCVIS 410-321961/2		11/30/2022 05:33	1	NK1401.D	DB-5MS 30m 0.25 0.25(mm)
MB 410-320750/1-A		11/30/2022 06:03	1	NK1402.D	DB-5MS 30m 0.25 0.25(mm)
LCS 410-320750/2-A		11/30/2022 06:25	1	NK1403.D	DB-5MS 30m 0.25 0.25(mm)
LCSD 410-320750/3-A		11/30/2022 06:46	1	NK1404.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		11/30/2022 07:07	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		11/30/2022 07:29	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		11/30/2022 07:50	1		DB-5MS 30m 0.25 0.25(mm)
410-106360-3	FBW001_112022	11/30/2022 09:38	1	NK1412.D	DB-5MS 30m 0.25 0.25(mm)
410-106360-3 MS	FBW001-MS_112022 MS	11/30/2022 09:59	1	NK1413.D	DB-5MS 30m 0.25 0.25(mm)
410-106360-3 MSD	FBW001-MSD_112022 MSD	11/30/2022 15:11	1	NK1414a.D	DB-5MS 30m 0.25 0.25(mm)
410-106360-1	FBS010_112022	11/30/2022 15:32	1	NK1415.D	DB-5MS 30m 0.25 0.25(mm)
410-106360-2	DUP-01_112022	11/30/2022 15:54	1	NK1416.D	DB-5MS 30m 0.25 0.25(mm)
410-106360-4	FBW001_FB_112022	11/30/2022 16:15	1	NK1417.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		11/30/2022 16:37	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		11/30/2022 16:58	1		DB-5MS 30m 0.25 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-106360-1

SDG No.:

Instrument ID: HP21585 Start Date: 12/01/2022 05:31

Analysis Batch Number: 322405 End Date: 12/01/2022 08:08

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-322405/1		12/01/2022 05:31	1	ML0010.D	DB-5MS 30m 0.25 0.25(mm)
CCVIS 410-322405/2		12/01/2022 05:47	1	ML0011.D	DB-5MS 30m 0.25 0.25(mm)
410-106360-3 RA	FBW001_112022 RA	12/01/2022 06:22	1	ML0012.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		12/01/2022 06:43	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		12/01/2022 07:04	1		DB-5MS 30m 0.25 0.25(mm)
410-106360-1 RA	FBS010_112022 RA	12/01/2022 07:26	1	ML0015.D	DB-5MS 30m 0.25 0.25(mm)
410-106360-2 RA	DUP-01_112022 RA	12/01/2022 07:47	1	ML0016.D	DB-5MS 30m 0.25 0.25(mm)
410-106360-4 RA	FBW001_FB_112022 RA	12/01/2022 08:08	1	ML0017.D	DB-5MS 30m 0.25 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-106360-1

SDG No.:

Instrument ID: HP23263 Start Date: 12/05/2022 05:04

Analysis Batch Number: 323522 End Date: 12/05/2022 14:04

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-323522/1		12/05/2022 05:04	1	NL0160.D	DB-5MS 30m 0.25 0.25(mm)
CCVIS 410-323522/2		12/05/2022 05:19	1	NL0161.D	DB-5MS 30m 0.25 0.25(mm)
MB 410-323309/1-A		12/05/2022 06:30	1	NL0164.D	DB-5MS 30m 0.25 0.25(mm)
LCS 410-323309/2-A		12/05/2022 06:51	1	NL0165.D	DB-5MS 30m 0.25 0.25(mm)
LCSD 410-323309/3-A		12/05/2022 07:13	1	NL0166.D	DB-5MS 30m 0.25 0.25(mm)
410-106360-1 RE	FBS010_112022 RE	12/05/2022 10:27	1	NL0175.D	DB-5MS 30m 0.25 0.25(mm)
410-106360-2 RE	DUP-01_112022 RE	12/05/2022 10:49	1	NL0176.D	DB-5MS 30m 0.25 0.25(mm)
410-106360-3 RE	FBW001_112022 RE	12/05/2022 11:11	1	NL0177.D	DB-5MS 30m 0.25 0.25(mm)
410-106360-3 MS RE	FBW001-MS_112022 MS RE	12/05/2022 11:32	1	NL0178.D	DB-5MS 30m 0.25 0.25(mm)
410-106360-3 MSD RE	FBW001-MSD_112022 MSD RE	12/05/2022 11:54	1	NL0179.D	DB-5MS 30m 0.25 0.25(mm)
410-106360-4 RE	FBW001_FB_112022 RE	12/05/2022 12:16	1	NL0180.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		12/05/2022 12:37	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		12/05/2022 12:59	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		12/05/2022 13:21	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		12/05/2022 13:42	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		12/05/2022 14:04	1		DB-5MS 30m 0.25 0.25(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-106360-1

SDG No.:

Batch Number: 280637 Batch Start Date: 07/28/22 18:23 Batch Analyst: Gambler, Joseph M

Batch Method: 8270D SIM Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSS_RVDFTPP 00011	MSS_RVSIM_1 00018	MSS_RVSIM_2 00018	MSS_RVSIM_3 00017	MSS_RVSIM_4 00024	MSS_RVSIM_5 00018
DFTPP 410-280637/1		8270D SIM		1 mL					
ICIS 410-280637/2		8270D SIM						1 mL	
IC 410-280637/3		8270D SIM							
IC 410-280637/4		8270D SIM							1 mL
IC 410-280637/5		8270D SIM					1 mL		
IC 410-280637/6		8270D SIM				1 mL			
IC 410-280637/7		8270D SIM			1 mL				
ICV 410-280637/9		8270D SIM							

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSS_RVSIM_6 00015	MSS_RVSIM_ICV 00031				
DFTPP 410-280637/1		8270D SIM							
ICIS 410-280637/2		8270D SIM							
IC 410-280637/3		8270D SIM		1 mL					
IC 410-280637/4		8270D SIM							
IC 410-280637/5		8270D SIM							
IC 410-280637/6		8270D SIM							
IC 410-280637/7		8270D SIM							
ICV 410-280637/9		8270D SIM			1 mL				

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 SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-106360-1

SDG No.:

Batch Number: 303206 Batch Start Date: 10/05/22 09:35 Batch Analyst: Lutte, Kate E

Batch Method: 8270D SIM Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	MSS_RVDFTPP 00011	MSS_RVSIM_1 00018	MSS_RVSIM_2 00018	MSS_RVSIM_3 00017	MSS_RVSIM_4 00024
DFTPP 410-303206/1		8270D SIM		1 mL	1 mL				
ICIS 410-303206/2		8270D SIM		1 mL					1 mL
IC 410-303206/3		8270D SIM		1 mL					
IC 410-303206/4		8270D SIM		1 mL					
IC 410-303206/5		8270D SIM		1 mL				1 mL	
IC 410-303206/6		8270D SIM		1 mL			1 mL		
IC 410-303206/7		8270D SIM		1 mL		1 mL			
ICV 410-303206/9		8270D SIM		1 mL					

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSS_RVSIM_5 00018	MSS_RVSIM_6 00015	MSS_RVSIM_IS 00032	SIMLCS_MS_icv 00001		
DFTPP 410-303206/1		8270D SIM							
ICIS 410-303206/2		8270D SIM							
IC 410-303206/3		8270D SIM			1 mL				
IC 410-303206/4		8270D SIM		1 mL					
IC 410-303206/5		8270D SIM							
IC 410-303206/6		8270D SIM							
IC 410-303206/7		8270D SIM							
ICV 410-303206/9		8270D SIM				10 uL	1 mL		

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 SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-106360-1

SDG No.:

Batch Number: 320750 Batch Start Date: 11/23/22 17:30 Batch Analyst: Sanchez, Osvaldo

Batch Method: 3510C Batch End Date: 11/23/22 22:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	DensityAcc	InitialAmount	FinalAmount	ReceivedpH
MB 410-320750/1		3510C, 8270D SIM				n/a	250 mL	1 mL	n/a SU
LCS 410-320750/2		3510C, 8270D SIM				n/a	250 mL	1 mL	n/a SU
LCSD 410-320750/3		3510C, 8270D SIM				n/a	250 mL	1 mL	n/a SU
410-106360-B-3 MS	FBW001-MS_112022	3510C, 8270D SIM	T	408.55 g	168.12 g	n/a	240.4 mL	1 mL	n/a SU
410-106360-B-3 MSD	FBW001-MSD_112022	3510C, 8270D SIM	T	415.69 g	169.30 g	n/a	246.4 mL	1 mL	n/a SU
410-106360-B-3	FBW001_112022	3510C, 8270D SIM	T	412.19 g	169.39 g	n/a	242.8 mL	1 mL	n/a SU
410-106360-B-1	FBS010_112022	3510C, 8270D SIM	T	403.93 g	168.46 g	n/a	235.5 mL	1 mL	n/a SU
410-106360-B-2	DUP-01_112022	3510C, 8270D SIM	T	406.14 g	166.70 g	n/a	239.4 mL	1 mL	n/a SU
410-106360-B-4	FBW001_FB_112022	3510C, 8270D SIM	T	405.60 g	168.11 g	n/a	237.5 mL	1 mL	n/a SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	FirstAdjustpH	SecondAdjustpH	OP_MINIBNA_SS 00075	OP_SIMLCS_MS 00080	AnalysisComment	
MB 410-320750/1		3510C, 8270D SIM		11 SU	2 SU	1 mL		tap water	
LCS 410-320750/2		3510C, 8270D SIM		11 SU	2 SU	1 mL	0.25 mL	tap water	
LCSD 410-320750/3		3510C, 8270D SIM		11 SU	2 SU	1 mL	0.25 mL	tap water	
410-106360-B-3 MS	FBW001-MS_112022	3510C, 8270D SIM	T	11 SU	2 SU	1 mL	0.25 mL	clear	
410-106360-B-3 MSD	FBW001-MSD_112022	3510C, 8270D SIM	T	11 SU	2 SU	1 mL	0.25 mL	clear	
410-106360-B-3	FBW001_112022	3510C, 8270D SIM	T	11 SU	2 SU	1 mL		clear	
410-106360-B-1	FBS010_112022	3510C, 8270D SIM	T	11 SU	2 SU	1 mL		clear	
410-106360-B-2	DUP-01_112022	3510C, 8270D SIM	T	11 SU	2 SU	1 mL		clear	
410-106360-B-4	FBW001_FB_112022	3510C, 8270D SIM	T	11 SU	2 SU	1 mL		clear	

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 SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-106360-1

SDG No.:

Batch Number: 320750 Batch Start Date: 11/23/22 17:30 Batch Analyst: Sanchez, Osvaldo

Batch Method: 3510C Batch End Date: 11/23/22 22:30

Batch Notes	
Method/Fraction	625_Prep_LVI
Balance ID	93158
Pipette/Syringe/Dispenser ID	4
Analyst ID - Extraction	OS11067
Analyst ID - Spike Analyst	OS11067
Acid Used for pH Adjustment ID	H2SO4:219415
Base Used to Adjust pH ID	NaOH:4103D49
Prep Solvent ID	MeCl2:225457
Prep Solvent Volume Used	90
Na2SO4 ID	22321A
Analyst ID - Concentration	OS11067
Equipment ID - Concentration 1	RapidVap#4,3,2,1
Concentration 1 Corrected Temperature	80 Degrees C
Batch Comment	split with batch 320749

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-106360-1

SDG No.:

Batch Number: 323309 Batch Start Date: 12/03/22 03:22 Batch Analyst: Okpo, Mathias O

Batch Method: 3510C Batch End Date: 12/03/22 09:10

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	FirstAdjustpH	SecondAdjustpH
MB 410-323309/1		3510C, 8270D SIM				250 mL	1 mL	11 SU	2 SU
LCS 410-323309/2		3510C, 8270D SIM				250 mL	1 mL	11 SU	2 SU
LCSD 410-323309/3		3510C, 8270D SIM				250 mL	1 mL	11 SU	2 SU
410-106360-C-1	FBS010_112022	3510C, 8270D SIM	T	393.58 g	168.61 g	225 mL	1 mL	11 SU	2 SU
410-106360-C-2	DUP-01_112022	3510C, 8270D SIM	T	393.14 g	168.53 g	224.6 mL	1 mL	11 SU	2 SU
410-106360-C-3	FBW001_112022	3510C, 8270D SIM	T	413.67 g	169.27 g	244.4 mL	1 mL	11 SU	2 SU
410-106360-C-3 MS	FBW001-MS_112022	3510C, 8270D SIM	T	406.02 g	167.27 g	238.8 mL	1 mL	11 SU	2 SU
410-106360-C-3 MSD	FBW001-MSD_112022	3510C, 8270D SIM	T	403.66 g	168.70 g	235 mL	1 mL	11 SU	2 SU
410-106360-A-4	FBW001_FB_112022	3510C, 8270D SIM	T	404.75 g	168.88 g	235.9 mL	1 mL	11 SU	2 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	CUPerformed	OP_MINIBNA_SS 00075	OP_SIMLCS_MS 00080	AnalysisComment		
MB 410-323309/1		3510C, 8270D SIM		N	1 mL		TAP H2O		
LCS 410-323309/2		3510C, 8270D SIM		N	1 mL	0.25 mL	TAP H2O		
LCSD 410-323309/3		3510C, 8270D SIM		N	1 mL	0.25 mL	TAP H2O		
410-106360-C-1	FBS010_112022	3510C, 8270D SIM	T	N	1 mL		CLEAR		
410-106360-C-2	DUP-01_112022	3510C, 8270D SIM	T	N	1 mL		CLEAR		
410-106360-C-3	FBW001_112022	3510C, 8270D SIM	T	N	1 mL		CLEAR		
410-106360-C-3 MS	FBW001-MS_112022	3510C, 8270D SIM	T	N	1 mL	0.25 mL	CLEAR		
410-106360-C-3 MSD	FBW001-MSD_112022	3510C, 8270D SIM	T	N	1 mL	0.25 mL	CLEAR		
410-106360-A-4	FBW001_FB_112022	3510C, 8270D SIM	T	N	1 mL		CLEAR		

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 SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-106360-1

SDG No.:

Batch Number: 323309 Batch Start Date: 12/03/22 03:22 Batch Analyst: Okpo, Mathias O

Batch Method: 3510C Batch End Date: 12/03/22 09:10

Batch Notes	
Balance ID	B821893138
Pipette/Syringe/Dispenser ID	4
Analyst ID - Extraction	13836
Analyst ID - Spike Analyst	13836
Analyst ID - Spike Witness Analyst	9121
Acid Used for pH Adjustment ID	H2SO4 - 219415
Base Used to Adjust pH ID	NAOH - 1103G88
Prep Solvent ID	MECL2 - 225721
Prep Solvent Volume Used	90 mL
Na2SO4 ID	22335A
Analyst ID - Concentration	13836
Equipment ID - Concentration 1	RAP VAP 1,4,6
Concentration 1 Corrected Temperature	80 Degrees C

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

Shipping and Receiving Documents

Chain of Custody Record

eurofins | Environment Testing America

410-106360 Chain of Custody

Client Contact: ~~Kay Kincannon~~ Ryley Gardner	Sampler: Hailey Mallett	Lab PM: Brown, Nicole	Carrier Tracking No(s): 816724522234	COC No: 410-67994-14132.1
Company: Environmental Works, Inc.	Phone:	E-Mail: Nicole.Brown@et.eurofinsus.com	State of Origin: MO	Page: Page 1 of 1
Address: 1455 East Chestnut Expressway	PWSID:	Due Date Requested: Standard		Job #:
City: Springfield		TAT Requested (days): standard		
State, Zip: MO, 65802		Compliance Project: Δ Yes Δ No		
Phone: 406-457-2142(Tel)		PO #: SPRINGFIELD, MO		
Email: rgardner@environmentalworks.com ~~kkincannon@environmentalworks.com~~		WO #:		
Project Name: Springfield, MO – OFIWP		Project #: 41006923		
Site:		SSOW#:		

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	8260C - Springfield, MO - 8260C TCL4.3 + TMB	8270D, 8270D_SIM	Total Number of containers	Special Instructions/Note:
FBS010_112022	11/17/22	1033	G	Water		3	4		
DUP-01_112022		1200		Water					
FBW001_112022		1020		Water					
FBW001-MS_112022		1012		Water					
FBW001-MSD_112022		1017		Water					
FBW001_FB_112022		1014		Water					
				Water					
Trip Blank	Lab Prep			Water		2			

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, (II), III, (IV), Other (specify) II, IV

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by: Eden Hennart	Date/Time: 10/20/22 10:10	Company	Received by:	Date/Time:	Company
Relinquished by: Hailey Mallett HMA	Date/Time: 11/17/22	Company: EWI	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 11/18/22 0958	Company

Custody Seals Intact: ☒ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 0.9

Ver: 01/16/2019

12/06/2022 MR

Login Sample Receipt Checklist

Client: Environmental Works, Inc. Job Number: 410-106360-1

Login Number: 106360 **List Source: Eurofins Lancaster Laboratories Environment Testing, LLC**
List Number: 1
Creator: McBeth, Jessica

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	Refer to Job Narrative for details.
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	True	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	True	

Login Sample Receipt Checklist

Client: Environmental Works, Inc. Job Number: 410-106360-1

Login Number: 106360 **List Source: Eurofins Lancaster Laboratories Environment Testing, LLC**
List Number: 1
Creator: McBeth, Jessica

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	Refer to Job Narrative for details.
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	

Former Tronox/Kerr-McGee Facility - Springfield, Missouri
OFIWP Public Drinking Well Sampling
Data Usability Summary

Level 2 Data Validation was performed by Environmental Works, Inc. (EWI) on the one (1) data package from Eurofins Laboratories in Lancaster, Pennsylvania, for the analysis of public drinking water well samples collected November 17, 2022. The data package group number was 410-106360.

Intended Use of Data: The intended use is data validation and to provide QAQC Review and an evaluation as to whether data quality objectives (DQOs) were meet related to data obtained during the sampling of the drinking water wells.

Laboratory analysis was requested on the following parameters:

- 8260C-Volatile Organic Compounds (GC/MS)
- 8270D and 8270D SIM – Semi-volatile Organic Compounds

These methods were in accordance with the OFIWP. The results of the data review and validation are discussed in this Data Usability Summary. The data packages were reviewed for the following in accordance with the project Sampling and Analysis Plan (EWI, 2020) and Quality Assurance Project Plan (EWI, 2020):

1. Compare Field Information Forms with Sample Labels and Chains-of-Custody
2. Agreement of Analyses Conducted with Chain-of-Custody Requests
3. Sample Receipt, Holding Times, and Sample Preservation
4. Trip Blanks
5. Laboratory Control Sample (LCS) and LCS Duplicate (LCSD) Recoveries
6. Surrogate Spike Recoveries
7. Quantitation Limits and Sample Results
8. Method Blank Results
9. Equipment Blank
10. Field Blank
11. Lab Comments
12. Field Instrument Calibration
13. Field Sampling Parameters
14. Instrument Calibrations (Initial and Continuing and RRF)
15. Manual Integration
16. Reagent Traceability and Tentative Identification Summary

1) Compare Field Information Forms with Sample Labels and Chains-of-Custody

The sample labels and chains-of-custody form was reviewed to ensure the dates, times, and sample IDs were the same. No issues identified.

2) Agreement of Analyses Conducted with Chain-of-Custody Requests

Analytical reports received from the laboratory were checked against the chain-of-custody request for all samples. No issues identified.

3) Sample Receipt, Holding Times, and Sample Preservation

The cooler sent to the laboratory arrived inside acceptable temperature range of 4 degree centigrade (+ 2 degrees and not frozen). Receipt Exceptions: 1 - 40ml HCl vial for the following sample was received broken: FBW001-MSD_112022 (410-106360-3[MSD]). 2 - 40ml HCl vials for the following sample was received broken: FBW001_FB_112022 (410-106360-4). Broken vials posed no effect on analysis or data quality; therefore, results are acceptable.

There were no other issues with the samples upon receipt by the lab. All samples were properly preserved and were analyzed within the method specified holding time.

4) Trip Blanks

For this sampling event, trip blanks were prepared by the laboratory, transported with the sample bottles to the Facility, kept in sample coolers during the sampling event, and returned unopened to the laboratory for quality control analysis. The samples were sent with a trip blank. The lab acknowledgement noted the trip blanks were inside cooler with no issues noted upon receipt. The trip blank sample was analyzed for target VOCs and there were no detections.

5) Laboratory Control Sample/Laboratory Control Sample Duplicate Recoveries

All target analytes were spiked into control samples and reported for the required LCS/LCSD analyses; The laboratory control sample (LCS) and laboratory control duplicate (LCSD) for preparation batch 410-321961 recovered outside control limits for the following analyte: Di-n-butyl phthalate. The associated sample(s) was re-prepared and/or re-analyzed outside holding time. Both sets of data have been reported. Lab reports are flagged with data qualifiers where data usability is brought into question. The following analytes could be biased high and may not be present: Di-n-butyl phthalate.

6) Surrogate Spike Recoveries

No surrogate recoveries were identified out of limits.

7) Quantitation Limits and Sample Results

There were no dilutions warranted for analyses, so no changes to quantification limits were warranted for any other analyses.

8) Method Blank Results

Method 8270D_SIM: Bis(2-ethylhexyl) phthalate and Di-n-butyl phthalate were detected above the method detection limit (MDL) and the reporting limit (RL) in the method blank associated with preparation batch 410-320750 and analytical batch 410-321961, as well as in the following

samples: FBS010_112022 (410-106360-1), DUP-01_112022 (410-106360-2), FBW001_112022 (410-106360-3) and FBW001_FB_112022 (410-106360-4). All affected samples were re-extracted outside of holding time. Both sets of data have been reported. As stated above: Bis(2-ethylhexyl) phthalate and Di-n-butyl phthalate could be biased high and may not be present in the samples. The first set of data for these analytes will be used when analyzed within holding time.

9) Equipment Blank Sample Results

Equipment blanks were not warranted as no sampling equipment was needed. Water samples were collected at City taps.

10) Field Blank Sample Results

Field blanks are used to identify if ambient contamination is entering the samples during the sampling process. As per Quality Assurance Project Plan (QAPP) B4.1.5 Field Blanks are used to identify ambient contamination entering the samples during the sampling process. Clean sampling containers are filled with laboratory provided deionized water and left open at the sample location for the duration of sampling that location. The containers are closed when sampling at that location is completed and analyzed for the COCs of interest. One field blank will be collected per groundwater sampling event. The following analytes were detected at or below the reporting limit: Di-n-butyl phthalate was detected at 0.57 J ug/L; Bis(2-ethylhexyl) phthalate was detected at 1.1 ug/L. Although the Field Blank had detectable analytes, they were non-Facility related.

11) Lab Comments

A summary of lab narrative/comments is shown below in bullets in the Summary below.

12) Instrument Calibration

City conducted pH tests as samples were collected and shared their data.

13) Field Sampling Parameters

During sampling activities, EWI filled containers as split samples with City from their taps.

14) Instrument Calibrations (Initial and Continuing and RRF)

The Level 4 evaluation checklists outline the various laboratory Forms within the Level 4 Data Packages. For calibration, the initial and continuing calibrations were reviewed along with relative response factors, response curves, and retention times: most be the same data in each lab package. Various data packages had narrative explanations from the lab regarding issues within initial calibration and/or continuing calibration within VOAs and Semi-VOAs along with the any effect on usability. Those descriptions can be found on Level 4 QAQC review sheets and summarized below for each lab package when Level 4 is conducted.

15) Manual Integration

The data packages have large sections of calibration related manual integration and chromatograms. Review of that data for this found no issues that would affect data usability.

16) Reagent Traceability and Tentative Identification Summary

The data packages provide source data and quality and the tentative identification chromatograms. There were no issues identified with reagent source or standards testing.

Usability Summary

The QAQC Data Review data package is listed below with a summary that all data was accepted and includes an explanation of data usability concerns. As stated above: Bis(2-ethylhexyl) phthalate and Di-n-butyl phthalate could be biased high and may not be present in the samples.

410-106360-1:

- GC/MS VOA Method 8260C: The continuing calibration verification (CCV) associated with batch 410-322343 recovered above the upper control limit for Acetone. Affected analytes are reported as non-detections and are considered estimate. Associated samples were not re-analyzed for this non-conformance because results were less than the reporting limit (RL); therefore, data is acceptable.
- GC/MS Semi VOA Method 8270D_SIM: The continuing calibration verification (CCV) associated with batch 410-321961 recovered above the upper control limit for Butylbenzylphthalate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.
- GC/MC Semi VOA Method 8270D_SIM: The laboratory control sample (LCS) and laboratory control duplicate (LCSD) for preparation batch 410-321961 recovered outside control limits for the following analyte: Di-n-butyl phthalate. The associated sample(s) was re-prepared and/or re-analyzed outside holding time. Both sets of data have been reported. Lab reports are flagged with data qualifiers where data usability is brought into question. The following analytes could be biased high and may not be present - Di-n-butyl phthalate.
- GC/MC Semi VOA Method 8270D_SIM: The method blank for preparation batch 410-320750 and analytical batch 410-321961 contained Bis(2-ethylhexyl) phthalate and Di-n-butyl phthalate above the method detection limit (MDL). Associated samples were not re-extracted for this non-conformance because results were less than the reporting limit (RL).
- GC/MC Semi VOA Method 8270D_SIM: Bis(2-ethylhexyl) phthalate and Di-n-butyl phthalate was detected above the reporting limit (RL) in the method blank associated with preparation batch 410-320750 and analytical batch 410-321961 as well as in the following samples: FBS010_112022 (410-106360-1), DUP-01_112022 (410-106360-2), FBW001_112022 (410-106360-3) and FBW001_FB_112022 (410-106360-4). All affected samples were re-extracted

outside of holding time. Both sets of data have been reported. Associated samples are not Facility related and these phthalate family analytes have been detected in various forms in prior sampling events; therefore, the data is acceptable. The first set of data for these analytes will be used.