eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Janet Frazier
TRC, Engineers, Inc.
2200 South Main Street
Suite A
Blacksburg VA 24060

Generated 8/12/2023 10:47 AM

JOB DESCRIPTION

RFAAP Radford HWMU16

JOB NUMBER

240-189273-1

Eurofins Cleveland
180 S. Van Buren Avenue
Barberton OH 44203

See page two for job notes and contact information.

my EOL

Eurofins Cleveland

Job Notes

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

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization



Generated
8/12/2023 10:47 AM

Authorized for release by
Opal Johnson, Project Manager II
Opal.Johnson@et.eurofinsus.com
330 966-9279

Table of Contents

Cover Title Page 1

Data Summaries 5

Definitions 5

Case Narrative 6

Detection Summary 7

Client Sample Results 8

Default Detection Limits 17

Surrogate Summary 19

QC Sample Results 20

QC Association 26

Chronicle 27

Certification Summary 29

Method Summary 30

Sample Summary 31

Detection Limit Exceptions 32

Manual Integration Summary 33

Reagent Traceability 42

COAs 146

Organic Sample Data 332

GC/MS VOA 332

8260D 332

8260D QC Summary 333

8260D Sample Data 342

Standards Data 366

8260D ICAL Data 366

8260D CCAL Data 511

Table of Contents

Raw QC Data 525

8260D Tune Data 525

8260D Blank Data 533

8260D LCS/LCSD Data 540

8260D MS/MSD Data 546

8260D Run Logs 554

8260D Prep Data 556

GC/MS Semi VOA 560

8270E 560

8270E QC Summary 561

8270E Sample Data 574

Standards Data 644

8270E ICAL Data 644

8270E CCAL Data 936

Raw QC Data 964

8270E Tune Data 964

8270E Blank Data 991

8270E LCS/LCSD Data 1003

8270E MS/MSD Data 1017

8270E Run Logs 1048

8270E Prep Data 1051

Shipping and Receiving Documents 1058

Client Chain of Custody 1059

Definitions/Glossary

Client: TRC, Engineers, Inc. Job ID: 240-189273-1
Project/Site: RFAAP Radford HWMU16

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
E	Result exceeded calibration range.
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.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Job Narrative
240-189273-1

Receipt
The samples were received on 7/28/2023 9:40 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 4.5°C

GC/MS VOA
Method 8260D: The reporting limit (RL) provided for the following samples falls below the laboratory's verified standard quantitation limit: 16C1 (240-189273-1), 16MW8 (240-189273-2), 16MW9 (240-189273-3), 16WC1A (240-189273-4), 16WDUP (240-189273-5) and 16WC1B (240-189273-6). Results reported below the verified standard quantitation limit have less certainty (i.e., are estimated) and must be used at the client's discretion. The continuing calibration blanks and method blanks may not support the lower RL.

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

GC/MS Semi VOA
Method 8270E: The continuing calibration verification (CCV) associated with batch 240-583312 recovered above the upper control limit for 2,4-Dinitrophenol. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported. The following samples were impacted: 16C1 (240-189273-1), 16MW8 (240-189273-2), 16MW9 (240-189273-3), 16WC1A (240-189273-4), 16WDUP (240-189273-5) and 16WC1B (240-189273-6).

Method 8270E: The continuing calibration verification (CCV) associated with batch 240-583312 recovered outside acceptance criteria, low biased, for Benzyl alcohol and Famphur. Reporting limit (RL) standards were analyzed, and the target analytes were detected. Since the associated samples were non-detect for the analytes, the data are reported. Samples 16C1 (240-189273-1), 16MW8 (240-189273-2), 16MW9 (240-189273-3), 16WC1A (240-189273-4), 16WDUP (240-189273-5) and 16WC1B (240-189273-6) were impacted.

Method 8270E: The laboratory control sample (LCS) for preparation batch 240-582476 and analytical batch 240-583312 recovered outside control limits for the following analyte: p-Phenylene diamine. This analyte has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. Samples 16C1 (240-189273-1), 16MW8 (240-189273-2), 16MW9 (240-189273-3), 16WC1A (240-189273-4), 16WDUP (240-189273-5) and 16WC1B (240-189273-6) were impacted. These results have been reported and qualified.

Method 8270E: The laboratory control sample (LCS) associated with samples 16C1 (240-189273-1), 16MW8 (240-189273-2), 16MW9 (240-189273-3), 16WC1A (240-189273-4), 16WDUP (240-189273-5) and 16WC1B (240-189273-6) had one acid surrogate recovery above acceptance criteria. Because the associated samples were ND for all analytes no corrective was required.

Method 8270E: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and/or one base surrogate recovery to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: 16WC1A (240-189273-4[MSD]). These results have been reported and qualified.

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

Detection Summary

Client: TRC, Engineers, Inc.
Job ID: 240-189273-1
Project/Site: RFAAP Radford HWMU16

Client Sample ID: 16C1 — Lab Sample ID: 240-189273-1

No Detections.

Client Sample ID: 16MW8 — Lab Sample ID: 240-189273-2

No Detections.

Client Sample ID: 16MW9 — Lab Sample ID: 240-189273-3

No Detections.

Client Sample ID: 16WC1A — Lab Sample ID: 240-189273-4

No Detections.

Client Sample ID: 16WDUP — Lab Sample ID: 240-189273-5

No Detections.

Client Sample ID: 16WC1B — Lab Sample ID: 240-189273-6

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: 16C1
Date Collected: 07/27/23 12:45
Date Received: 07/28/23 09:40

Lab Sample ID: 240-189273-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	10	U	10	2.1	ug/L			08/08/23 19:54	1
trans-1,4-Dichloro-2-butene	10	U	10	1.3	ug/L			08/08/23 19:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*78 - 122*		*08/08/23 19:54*	*1*
Dibromofluoromethane (Surr)	*104*		*73 - 120*		*08/08/23 19:54*	*1*
4-Bromofluorobenzene (Surr)	*98*		*56 - 136*		*08/08/23 19:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*62 - 137*		*08/08/23 19:54*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 11:52	1
1,4-Naphthoquinone	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 11:52	1
1-Naphthylamine	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 11:52	1
2,4-Dimethylphenol	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 11:52	1
2,4-Dinitrophenol	9.3	U	9.3	5.7	ug/L		08/01/23 08:59	08/09/23 11:52	1
2-Acetylaminofluorene	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 11:52	1
2-Naphthylamine	9.3	U	9.3	6.5	ug/L		08/01/23 08:59	08/09/23 11:52	1
2-Picoline	9.3	U	9.3	0.93	ug/L		08/01/23 08:59	08/09/23 11:52	1
3,3'-Dichlorobenzidine	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 11:52	1
3,3'-Dimethylbenzidine	9.3	U	9.3	3.1	ug/L		08/01/23 08:59	08/09/23 11:52	1
3-Methylcholanthrene	9.3	U	9.3	0.93	ug/L		08/01/23 08:59	08/09/23 11:52	1
3-Nitroaniline	9.3	U	9.3	1.9	ug/L		08/01/23 08:59	08/09/23 11:52	1
4,6-Dinitro-2-methylphenol	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 11:52	1
4-Aminobiphenyl	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 11:52	1
4-Chloroaniline	9.3	U	9.3	3.1	ug/L		08/01/23 08:59	08/09/23 11:52	1
4-Nitroaniline	9.3	U	9.3	1.4	ug/L		08/01/23 08:59	08/09/23 11:52	1
4-Nitroquinoline-1-oxide	46	U	46	4.6	ug/L		08/01/23 08:59	08/09/23 11:52	1
7,12-Dimethylbenz(a)anthracene	9.3	U	9.3	1.7	ug/L		08/01/23 08:59	08/09/23 11:52	1
Acetophenone	9.3	U	9.3	0.93	ug/L		08/01/23 08:59	08/09/23 11:52	1
Aniline	9.3	U	9.3	1.0	ug/L		08/01/23 08:59	08/09/23 11:52	1
Aramite, Total	9.3	U	9.3	3.4	ug/L		08/01/23 08:59	08/09/23 11:52	1
Benzyl alcohol	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 11:52	1
Bis(2-chloroethoxy)methane	0.93	U	0.93	0.46	ug/L		08/01/23 08:59	08/09/23 11:52	1
Bis(2-chloroethyl)ether	0.93	U	0.93	0.46	ug/L		08/01/23 08:59	08/09/23 11:52	1
Butyl benzyl phthalate	9.3	U	9.3	0.65	ug/L		08/01/23 08:59	08/09/23 11:52	1
Chlorobenzilate	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 11:52	1
Di-n-butyl phthalate	9.3	U	9.3	1.7	ug/L		08/01/23 08:59	08/09/23 11:52	1
Disulfoton	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 11:52	1
Ethyl Parathion	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 11:52	1
Famphur	9.3	U	9.3	4.6	ug/L		08/01/23 08:59	08/09/23 11:52	1
Hexachlorocyclopentadiene	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 11:52	1
Hexachloroethane	9.3	U	9.3	0.37	ug/L		08/01/23 08:59	08/09/23 11:52	1
Isophorone	9.3	U	9.3	0.46	ug/L		08/01/23 08:59	08/09/23 11:52	1
Methapyrilene	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 11:52	1
Methyl methanesulfonate	9.3	U	9.3	0.93	ug/L		08/01/23 08:59	08/09/23 11:52	1
Methyl parathion	9.3	U	9.3	3.0	ug/L		08/01/23 08:59	08/09/23 11:52	1
N-Nitrosodi-n-butylamine	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 11:52	1
N-Nitrosodi-n-propylamine	9.3	U	9.3	0.46	ug/L		08/01/23 08:59	08/09/23 11:52	1
N-Nitrosodiphenylamine	9.3	U	9.3	0.54	ug/L		08/01/23 08:59	08/09/23 11:52	1

Client Sample ID: 16C1
Lab Sample ID: 240-189273-1

Date Collected: 07/27/23 12:45
Matrix: Water
Date Received: 07/28/23 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosomethylethylamine	9.3	U	9.3	0.93	ug/L		08/01/23 08:59	08/09/23 11:52	1
N-Nitrosopyrrolidine	9.3	U	9.3	0.46	ug/L		08/01/23 08:59	08/09/23 11:52	1
p-Dimethylamino azobenzene	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 11:52	1
p-Phenylene diamine	140	U *-	140	24	ug/L		08/01/23 08:59	08/09/23 11:52	1
Pyridine	9.3	U	9.3	1.9	ug/L		08/01/23 08:59	08/09/23 11:52	1
N-Nitro-o-toluidine	4.6	U	4.6	1.1	ug/L		08/01/23 08:59	08/09/23 11:52	1
o-Toluidine	9.3	U	9.3	3.7	ug/L		08/01/23 08:59	08/09/23 11:52	1
4-Nitrophenol	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 11:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*93*		*31 - 140*	*08/01/23 08:59*	*08/09/23 11:52*	*1*
Phenol-d5 (Surr)	*78*		*18 - 120*	*08/01/23 08:59*	*08/09/23 11:52*	*1*
Nitrobenzene-d5 (Surr)	*76*		*13 - 120*	*08/01/23 08:59*	*08/09/23 11:52*	*1*
2-Fluorophenol (Surr)	*82*		*12 - 120*	*08/01/23 08:59*	*08/09/23 11:52*	*1*
2-Fluorobiphenyl (Surr)	*70*		*23 - 120*	*08/01/23 08:59*	*08/09/23 11:52*	*1*
2,4,6-Tribromophenol (Surr)	*60*		*10 - 126*	*08/01/23 08:59*	*08/09/23 11:52*	*1*

Client Sample ID: 16MW8
Lab Sample ID: 240-189273-2

Date Collected: 07/26/23 10:05
Matrix: Water
Date Received: 07/28/23 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	10	U	10	2.1	ug/L			08/08/23 20:19	1
trans-1,4-Dichloro-2-butene	10	U	10	1.3	ug/L			08/08/23 20:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*78 - 122*		*08/08/23 20:19*	*1*
Dibromofluoromethane (Surr)	*105*		*73 - 120*		*08/08/23 20:19*	*1*
4-Bromofluorobenzene (Surr)	*99*		*56 - 136*		*08/08/23 20:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*62 - 137*		*08/08/23 20:19*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 12:15	1
1,4-Naphthoquinone	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 12:15	1
1-Naphthylamine	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 12:15	1
2,4-Dimethylphenol	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 12:15	1
2,4-Dinitrophenol	9.3	U	9.3	5.7	ug/L		08/01/23 08:59	08/09/23 12:15	1
2-Acetylaminofluorene	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 12:15	1
2-Naphthylamine	9.3	U	9.3	6.5	ug/L		08/01/23 08:59	08/09/23 12:15	1
2-Picoline	9.3	U	9.3	0.93	ug/L		08/01/23 08:59	08/09/23 12:15	1
3,3'-Dichlorobenzidine	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 12:15	1
3,3'-Dimethylbenzidine	9.3	U	9.3	3.1	ug/L		08/01/23 08:59	08/09/23 12:15	1
3-Methylcholanthrene	9.3	U	9.3	0.93	ug/L		08/01/23 08:59	08/09/23 12:15	1
3-Nitroaniline	9.3	U	9.3	1.9	ug/L		08/01/23 08:59	08/09/23 12:15	1
4,6-Dinitro-2-methylphenol	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 12:15	1
4-Aminobiphenyl	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 12:15	1
4-Chloroaniline	9.3	U	9.3	3.1	ug/L		08/01/23 08:59	08/09/23 12:15	1
4-Nitroaniline	9.3	U	9.3	1.4	ug/L		08/01/23 08:59	08/09/23 12:15	1
4-Nitroquinoline-1-oxide	46	U	46	4.6	ug/L		08/01/23 08:59	08/09/23 12:15	1

Client Sample ID: 16MW8
Lab Sample ID: 240-189273-2

Date Collected: 07/26/23 10:05
Matrix: Water
Date Received: 07/28/23 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
7,12-Dimethylbenz(a)anthracene	9.3	U	9.3	1.7	ug/L		08/01/23 08:59	08/09/23 12:15	1
Acetophenone	9.3	U	9.3	0.93	ug/L		08/01/23 08:59	08/09/23 12:15	1
Aniline	9.3	U	9.3	1.0	ug/L		08/01/23 08:59	08/09/23 12:15	1
Aramite, Total	9.3	U	9.3	3.4	ug/L		08/01/23 08:59	08/09/23 12:15	1
Benzyl alcohol	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 12:15	1
Bis(2-chloroethoxy)methane	0.93	U	0.93	0.46	ug/L		08/01/23 08:59	08/09/23 12:15	1
Bis(2-chloroethyl)ether	0.93	U	0.93	0.46	ug/L		08/01/23 08:59	08/09/23 12:15	1
Butyl benzyl phthalate	9.3	U	9.3	0.65	ug/L		08/01/23 08:59	08/09/23 12:15	1
Chlorobenzilate	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 12:15	1
Di-n-butyl phthalate	9.3	U	9.3	1.7	ug/L		08/01/23 08:59	08/09/23 12:15	1
Disulfoton	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 12:15	1
Ethyl Parathion	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 12:15	1
Famphur	9.3	U	9.3	4.6	ug/L		08/01/23 08:59	08/09/23 12:15	1
Hexachlorocyclopentadiene	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 12:15	1
Hexachloroethane	9.3	U	9.3	0.37	ug/L		08/01/23 08:59	08/09/23 12:15	1
Isophorone	9.3	U	9.3	0.46	ug/L		08/01/23 08:59	08/09/23 12:15	1
Methapyrilene	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 12:15	1
Methyl methanesulfonate	9.3	U	9.3	0.93	ug/L		08/01/23 08:59	08/09/23 12:15	1
Methyl parathion	9.3	U	9.3	3.0	ug/L		08/01/23 08:59	08/09/23 12:15	1
N-Nitrosodi-n-butylamine	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 12:15	1
N-Nitrosodi-n-propylamine	9.3	U	9.3	0.46	ug/L		08/01/23 08:59	08/09/23 12:15	1
N-Nitrosodiphenylamine	9.3	U	9.3	0.54	ug/L		08/01/23 08:59	08/09/23 12:15	1
N-Nitrosomethylethylamine	9.3	U	9.3	0.93	ug/L		08/01/23 08:59	08/09/23 12:15	1
N-Nitrosopyrrolidine	9.3	U	9.3	0.46	ug/L		08/01/23 08:59	08/09/23 12:15	1
p-Dimethylamino azobenzene	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 12:15	1
p-Phenylene diamine	140	U *-	140	24	ug/L		08/01/23 08:59	08/09/23 12:15	1
Pyridine	9.3	U	9.3	1.9	ug/L		08/01/23 08:59	08/09/23 12:15	1
N-Nitro-o-toluidine	4.6	U	4.6	1.1	ug/L		08/01/23 08:59	08/09/23 12:15	1
o-Toluidine	9.3	U	9.3	3.7	ug/L		08/01/23 08:59	08/09/23 12:15	1
4-Nitrophenol	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 12:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*94*		*31 - 140*	*08/01/23 08:59*	*08/09/23 12:15*	*1*
Phenol-d5 (Surr)	*61*		*18 - 120*	*08/01/23 08:59*	*08/09/23 12:15*	*1*
Nitrobenzene-d5 (Surr)	*81*		*13 - 120*	*08/01/23 08:59*	*08/09/23 12:15*	*1*
2-Fluorophenol (Surr)	*86*		*12 - 120*	*08/01/23 08:59*	*08/09/23 12:15*	*1*
2-Fluorobiphenyl (Surr)	*75*		*23 - 120*	*08/01/23 08:59*	*08/09/23 12:15*	*1*
2,4,6-Tribromophenol (Surr)	*60*		*10 - 126*	*08/01/23 08:59*	*08/09/23 12:15*	*1*

Client Sample ID: 16MW9
Lab Sample ID: 240-189273-3

Date Collected: 07/27/23 11:25
Matrix: Water
Date Received: 07/28/23 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	10	U	10	2.1	ug/L			08/08/23 20:44	1
trans-1,4-Dichloro-2-butene	10	U	10	1.3	ug/L			08/08/23 20:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*78 - 122*		*08/08/23 20:44*	*1*

Client Sample ID: 16MW9
Date Collected: 07/27/23 11:25
Date Received: 07/28/23 09:40

Lab Sample ID: 240-189273-3
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*73 - 120*		*08/08/23 20:44*	*1*
4-Bromofluorobenzene (Surr)	*97*		*56 - 136*		*08/08/23 20:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*62 - 137*		*08/08/23 20:44*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 12:38	1
1,4-Naphthoquinone	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 12:38	1
1-Naphthylamine	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 12:38	1
2,4-Dimethylphenol	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 12:38	1
2,4-Dinitrophenol	9.3	U	9.3	5.7	ug/L		08/01/23 08:59	08/09/23 12:38	1
2-Acetylaminofluorene	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 12:38	1
2-Naphthylamine	9.3	U	9.3	6.5	ug/L		08/01/23 08:59	08/09/23 12:38	1
2-Picoline	9.3	U	9.3	0.93	ug/L		08/01/23 08:59	08/09/23 12:38	1
3,3'-Dichlorobenzidine	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 12:38	1
3,3'-Dimethylbenzidine	9.3	U	9.3	3.1	ug/L		08/01/23 08:59	08/09/23 12:38	1
3-Methylcholanthrene	9.3	U	9.3	0.93	ug/L		08/01/23 08:59	08/09/23 12:38	1
3-Nitroaniline	9.3	U	9.3	1.9	ug/L		08/01/23 08:59	08/09/23 12:38	1
4,6-Dinitro-2-methylphenol	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 12:38	1
4-Aminobiphenyl	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 12:38	1
4-Chloroaniline	9.3	U	9.3	3.1	ug/L		08/01/23 08:59	08/09/23 12:38	1
4-Nitroaniline	9.3	U	9.3	1.4	ug/L		08/01/23 08:59	08/09/23 12:38	1
4-Nitroquinoline-1-oxide	46	U	46	4.6	ug/L		08/01/23 08:59	08/09/23 12:38	1
7,12-Dimethylbenz(a)anthracene	9.3	U	9.3	1.7	ug/L		08/01/23 08:59	08/09/23 12:38	1
Acetophenone	9.3	U	9.3	0.93	ug/L		08/01/23 08:59	08/09/23 12:38	1
Aniline	9.3	U	9.3	1.0	ug/L		08/01/23 08:59	08/09/23 12:38	1
Aramite, Total	9.3	U	9.3	3.4	ug/L		08/01/23 08:59	08/09/23 12:38	1
Benzyl alcohol	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 12:38	1
Bis(2-chloroethoxy)methane	0.93	U	0.93	0.46	ug/L		08/01/23 08:59	08/09/23 12:38	1
Bis(2-chloroethyl)ether	0.93	U	0.93	0.46	ug/L		08/01/23 08:59	08/09/23 12:38	1
Butyl benzyl phthalate	9.3	U	9.3	0.65	ug/L		08/01/23 08:59	08/09/23 12:38	1
Chlorobenzilate	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 12:38	1
Di-n-butyl phthalate	9.3	U	9.3	1.7	ug/L		08/01/23 08:59	08/09/23 12:38	1
Disulfoton	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 12:38	1
Ethyl Parathion	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 12:38	1
Famphur	9.3	U	9.3	4.6	ug/L		08/01/23 08:59	08/09/23 12:38	1
Hexachlorocyclopentadiene	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 12:38	1
Hexachloroethane	9.3	U	9.3	0.37	ug/L		08/01/23 08:59	08/09/23 12:38	1
Isophorone	9.3	U	9.3	0.46	ug/L		08/01/23 08:59	08/09/23 12:38	1
Methapyrilene	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 12:38	1
Methyl methanesulfonate	9.3	U	9.3	0.93	ug/L		08/01/23 08:59	08/09/23 12:38	1
Methyl parathion	9.3	U	9.3	3.0	ug/L		08/01/23 08:59	08/09/23 12:38	1
N-Nitrosodi-n-butylamine	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 12:38	1
N-Nitrosodi-n-propylamine	9.3	U	9.3	0.46	ug/L		08/01/23 08:59	08/09/23 12:38	1
N-Nitrosodiphenylamine	9.3	U	9.3	0.54	ug/L		08/01/23 08:59	08/09/23 12:38	1
N-Nitrosomethylethylamine	9.3	U	9.3	0.93	ug/L		08/01/23 08:59	08/09/23 12:38	1
N-Nitrosopyrrolidine	9.3	U	9.3	0.46	ug/L		08/01/23 08:59	08/09/23 12:38	1
p-Dimethylamino azobenzene	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 12:38	1
p-Phenylene diamine	140	U *-	140	24	ug/L		08/01/23 08:59	08/09/23 12:38	1

Client Sample ID: 16MW9
Lab Sample ID: 240-189273-3

Date Collected: 07/27/23 11:25
Matrix: Water
Date Received: 07/28/23 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyridine	9.3	U	9.3	1.9	ug/L		08/01/23 08:59	08/09/23 12:38	1
N-Nitro-o-toluidine	4.6	U	4.6	1.1	ug/L		08/01/23 08:59	08/09/23 12:38	1
o-Toluidine	9.3	U	9.3	3.7	ug/L		08/01/23 08:59	08/09/23 12:38	1
4-Nitrophenol	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 12:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*95*		*31 - 140*	*08/01/23 08:59*	*08/09/23 12:38*	*1*
Phenol-d5 (Surr)	*81*		*18 - 120*	*08/01/23 08:59*	*08/09/23 12:38*	*1*
Nitrobenzene-d5 (Surr)	*80*		*13 - 120*	*08/01/23 08:59*	*08/09/23 12:38*	*1*
2-Fluorophenol (Surr)	*91*		*12 - 120*	*08/01/23 08:59*	*08/09/23 12:38*	*1*
2-Fluorobiphenyl (Surr)	*70*		*23 - 120*	*08/01/23 08:59*	*08/09/23 12:38*	*1*
2,4,6-Tribromophenol (Surr)	*64*		*10 - 126*	*08/01/23 08:59*	*08/09/23 12:38*	*1*

Client Sample ID: 16WC1A
Lab Sample ID: 240-189273-4

Date Collected: 07/27/23 09:55
Matrix: Water
Date Received: 07/28/23 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	10	U	10	2.1	ug/L			08/08/23 21:09	1
trans-1,4-Dichloro-2-butene	10	U	10	1.3	ug/L			08/08/23 21:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*78 - 122*		*08/08/23 21:09*	*1*
Dibromofluoromethane (Surr)	*105*		*73 - 120*		*08/08/23 21:09*	*1*
4-Bromofluorobenzene (Surr)	*97*		*56 - 136*		*08/08/23 21:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*62 - 137*		*08/08/23 21:09*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 13:48	1
1,4-Naphthoquinone	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 13:48	1
1-Naphthylamine	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 13:48	1
2,4-Dimethylphenol	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 13:48	1
2,4-Dinitrophenol	9.3	U	9.3	5.7	ug/L		08/01/23 08:59	08/09/23 13:48	1
2-Acetylaminofluorene	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 13:48	1
2-Naphthylamine	9.3	U	9.3	6.5	ug/L		08/01/23 08:59	08/09/23 13:48	1
2-Picoline	9.3	U	9.3	0.93	ug/L		08/01/23 08:59	08/09/23 13:48	1
3,3'-Dichlorobenzidine	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 13:48	1
3,3'-Dimethylbenzidine	9.3	U	9.3	3.1	ug/L		08/01/23 08:59	08/09/23 13:48	1
3-Methylcholanthrene	9.3	U	9.3	0.93	ug/L		08/01/23 08:59	08/09/23 13:48	1
3-Nitroaniline	9.3	U	9.3	1.9	ug/L		08/01/23 08:59	08/09/23 13:48	1
4,6-Dinitro-2-methylphenol	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 13:48	1
4-Aminobiphenyl	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 13:48	1
4-Chloroaniline	9.3	U F2	9.3	3.1	ug/L		08/01/23 08:59	08/09/23 13:48	1
4-Nitroaniline	9.3	U	9.3	1.4	ug/L		08/01/23 08:59	08/09/23 13:48	1
4-Nitroquinoline-1-oxide	46	U	46	4.6	ug/L		08/01/23 08:59	08/09/23 13:48	1
7,12-Dimethylbenz(a)anthracene	9.3	U	9.3	1.7	ug/L		08/01/23 08:59	08/09/23 13:48	1
Acetophenone	9.3	U	9.3	0.93	ug/L		08/01/23 08:59	08/09/23 13:48	1
Aniline	9.3	U F2	9.3	1.0	ug/L		08/01/23 08:59	08/09/23 13:48	1
Aramite, Total	9.3	U	9.3	3.4	ug/L		08/01/23 08:59	08/09/23 13:48	1

Client Sample ID: 16WC1A
Lab Sample ID: 240-189273-4

Date Collected: 07/27/23 09:55
Matrix: Water
Date Received: 07/28/23 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzyl alcohol	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 13:48	1
Bis(2-chloroethoxy)methane	0.93	U	0.93	0.46	ug/L		08/01/23 08:59	08/09/23 13:48	1
Bis(2-chloroethyl)ether	0.93	U	0.93	0.46	ug/L		08/01/23 08:59	08/09/23 13:48	1
Butyl benzyl phthalate	9.3	U	9.3	0.65	ug/L		08/01/23 08:59	08/09/23 13:48	1
Chlorobenzilate	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 13:48	1
Di-n-butyl phthalate	9.3	U	9.3	1.7	ug/L		08/01/23 08:59	08/09/23 13:48	1
Disulfoton	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 13:48	1
Ethyl Parathion	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 13:48	1
Famphur	9.3	U	9.3	4.6	ug/L		08/01/23 08:59	08/09/23 13:48	1
Hexachlorocyclopentadiene	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 13:48	1
Hexachloroethane	9.3	U	9.3	0.37	ug/L		08/01/23 08:59	08/09/23 13:48	1
Isophorone	9.3	U	9.3	0.46	ug/L		08/01/23 08:59	08/09/23 13:48	1
Methapyrilene	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 13:48	1
Methyl methanesulfonate	9.3	U	9.3	0.93	ug/L		08/01/23 08:59	08/09/23 13:48	1
Methyl parathion	9.3	U	9.3	3.0	ug/L		08/01/23 08:59	08/09/23 13:48	1
N-Nitrosodi-n-butylamine	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 13:48	1
N-Nitrosodi-n-propylamine	9.3	U	9.3	0.46	ug/L		08/01/23 08:59	08/09/23 13:48	1
N-Nitrosodiphenylamine	9.3	U	9.3	0.54	ug/L		08/01/23 08:59	08/09/23 13:48	1
N-Nitrosomethylethylamine	9.3	U	9.3	0.93	ug/L		08/01/23 08:59	08/09/23 13:48	1
N-Nitrosopyrrolidine	9.3	U	9.3	0.46	ug/L		08/01/23 08:59	08/09/23 13:48	1
p-Dimethylamino azobenzene	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 13:48	1
p-Phenylene diamine	140	U *-	140	24	ug/L		08/01/23 08:59	08/09/23 13:48	1
Pyridine	9.3	U F2	9.3	1.9	ug/L		08/01/23 08:59	08/09/23 13:48	1
N-Nitro-o-toluidine	4.6	U	4.6	1.1	ug/L		08/01/23 08:59	08/09/23 13:48	1
o-Toluidine	9.3	U	9.3	3.7	ug/L		08/01/23 08:59	08/09/23 13:48	1
4-Nitrophenol	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 13:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*93*		*31 - 140*	*08/01/23 08:59*	*08/09/23 13:48*	*1*
Phenol-d5 (Surr)	*60*		*18 - 120*	*08/01/23 08:59*	*08/09/23 13:48*	*1*
Nitrobenzene-d5 (Surr)	*80*		*13 - 120*	*08/01/23 08:59*	*08/09/23 13:48*	*1*
2-Fluorophenol (Surr)	*47*		*12 - 120*	*08/01/23 08:59*	*08/09/23 13:48*	*1*
2-Fluorobiphenyl (Surr)	*73*		*23 - 120*	*08/01/23 08:59*	*08/09/23 13:48*	*1*
2,4,6-Tribromophenol (Surr)	*44*		*10 - 126*	*08/01/23 08:59*	*08/09/23 13:48*	*1*

Client Sample ID: 16WDUP
Lab Sample ID: 240-189273-5

Date Collected: 07/27/23 10:20
Matrix: Water
Date Received: 07/28/23 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	10	U	10	2.1	ug/L			08/08/23 21:35	1
trans-1,4-Dichloro-2-butene	10	U	10	1.3	ug/L			08/08/23 21:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*78 - 122*		*08/08/23 21:35*	*1*
Dibromofluoromethane (Surr)	*104*		*73 - 120*		*08/08/23 21:35*	*1*
4-Bromofluorobenzene (Surr)	*98*		*56 - 136*		*08/08/23 21:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*62 - 137*		*08/08/23 21:35*	*1*

Client Sample ID: 16WDUP
Date Collected: 07/27/23 10:20
Date Received: 07/28/23 09:40

Lab Sample ID: 240-189273-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 13:01	1
1,4-Naphthoquinone	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 13:01	1
1-Naphthylamine	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 13:01	1
2,4-Dimethylphenol	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 13:01	1
2,4-Dinitrophenol	9.3	U	9.3	5.7	ug/L		08/01/23 08:59	08/09/23 13:01	1
2-Acetylaminofluorene	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 13:01	1
2-Naphthylamine	9.3	U	9.3	6.5	ug/L		08/01/23 08:59	08/09/23 13:01	1
2-Picoline	9.3	U	9.3	0.93	ug/L		08/01/23 08:59	08/09/23 13:01	1
3,3'-Dichlorobenzidine	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 13:01	1
3,3'-Dimethylbenzidine	9.3	U	9.3	3.1	ug/L		08/01/23 08:59	08/09/23 13:01	1
3-Methylcholanthrene	9.3	U	9.3	0.93	ug/L		08/01/23 08:59	08/09/23 13:01	1
3-Nitroaniline	9.3	U	9.3	1.9	ug/L		08/01/23 08:59	08/09/23 13:01	1
4,6-Dinitro-2-methylphenol	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 13:01	1
4-Aminobiphenyl	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 13:01	1
4-Chloroaniline	9.3	U	9.3	3.1	ug/L		08/01/23 08:59	08/09/23 13:01	1
4-Nitroaniline	9.3	U	9.3	1.4	ug/L		08/01/23 08:59	08/09/23 13:01	1
4-Nitroquinoline-1-oxide	46	U	46	4.6	ug/L		08/01/23 08:59	08/09/23 13:01	1
7,12-Dimethylbenz(a)anthracene	9.3	U	9.3	1.7	ug/L		08/01/23 08:59	08/09/23 13:01	1
Acetophenone	9.3	U	9.3	0.93	ug/L		08/01/23 08:59	08/09/23 13:01	1
Aniline	9.3	U	9.3	1.0	ug/L		08/01/23 08:59	08/09/23 13:01	1
Aramite, Total	9.3	U	9.3	3.4	ug/L		08/01/23 08:59	08/09/23 13:01	1
Benzyl alcohol	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 13:01	1
Bis(2-chloroethoxy)methane	0.93	U	0.93	0.46	ug/L		08/01/23 08:59	08/09/23 13:01	1
Bis(2-chloroethyl)ether	0.93	U	0.93	0.46	ug/L		08/01/23 08:59	08/09/23 13:01	1
Butyl benzyl phthalate	9.3	U	9.3	0.65	ug/L		08/01/23 08:59	08/09/23 13:01	1
Chlorobenzilate	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 13:01	1
Di-n-butyl phthalate	9.3	U	9.3	1.7	ug/L		08/01/23 08:59	08/09/23 13:01	1
Disulfoton	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 13:01	1
Ethyl Parathion	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 13:01	1
Famphur	9.3	U	9.3	4.6	ug/L		08/01/23 08:59	08/09/23 13:01	1
Hexachlorocyclopentadiene	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 13:01	1
Hexachloroethane	9.3	U	9.3	0.37	ug/L		08/01/23 08:59	08/09/23 13:01	1
Isophorone	9.3	U	9.3	0.46	ug/L		08/01/23 08:59	08/09/23 13:01	1
Methapyrilene	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 13:01	1
Methyl methanesulfonate	9.3	U	9.3	0.93	ug/L		08/01/23 08:59	08/09/23 13:01	1
Methyl parathion	9.3	U	9.3	3.0	ug/L		08/01/23 08:59	08/09/23 13:01	1
N-Nitrosodi-n-butylamine	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 13:01	1
N-Nitrosodi-n-propylamine	9.3	U	9.3	0.46	ug/L		08/01/23 08:59	08/09/23 13:01	1
N-Nitrosodiphenylamine	9.3	U	9.3	0.54	ug/L		08/01/23 08:59	08/09/23 13:01	1
N-Nitrosomethylethylamine	9.3	U	9.3	0.93	ug/L		08/01/23 08:59	08/09/23 13:01	1
N-Nitrosopyrrolidine	9.3	U	9.3	0.46	ug/L		08/01/23 08:59	08/09/23 13:01	1
p-Dimethylamino azobenzene	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 13:01	1
p-Phenylene diamine	140	U *-	140	24	ug/L		08/01/23 08:59	08/09/23 13:01	1
Pyridine	9.3	U	9.3	1.9	ug/L		08/01/23 08:59	08/09/23 13:01	1
N-Nitro-o-toluidine	4.6	U	4.6	1.1	ug/L		08/01/23 08:59	08/09/23 13:01	1
o-Toluidine	9.3	U	9.3	3.7	ug/L		08/01/23 08:59	08/09/23 13:01	1
4-Nitrophenol	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 13:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*95*		*31 - 140*	*08/01/23 08:59*	*08/09/23 13:01*	*1*

Client Sample ID: 16WDUP
Lab Sample ID: 240-189273-5

Date Collected: 07/27/23 10:20
Matrix: Water
Date Received: 07/28/23 09:40

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*53*		*18 - 120*	*08/01/23 08:59*	*08/09/23 13:01*	*1*
Nitrobenzene-d5 (Surr)	*85*		*13 - 120*	*08/01/23 08:59*	*08/09/23 13:01*	*1*
2-Fluorophenol (Surr)	*27*		*12 - 120*	*08/01/23 08:59*	*08/09/23 13:01*	*1*
2-Fluorobiphenyl (Surr)	*78*		*23 - 120*	*08/01/23 08:59*	*08/09/23 13:01*	*1*
2,4,6-Tribromophenol (Surr)	*23*		*10 - 126*	*08/01/23 08:59*	*08/09/23 13:01*	*1*

Client Sample ID: 16WC1B
Lab Sample ID: 240-189273-6

Date Collected: 07/26/23 12:05
Matrix: Water
Date Received: 07/28/23 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	10	U	10	2.1	ug/L			08/08/23 22:00	1
trans-1,4-Dichloro-2-butene	10	U	10	1.3	ug/L			08/08/23 22:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*78 - 122*		*08/08/23 22:00*	*1*
Dibromofluoromethane (Surr)	*105*		*73 - 120*		*08/08/23 22:00*	*1*
4-Bromofluorobenzene (Surr)	*97*		*56 - 136*		*08/08/23 22:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*62 - 137*		*08/08/23 22:00*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 13:25	1
1,4-Naphthoquinone	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 13:25	1
1-Naphthylamine	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 13:25	1
2,4-Dimethylphenol	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 13:25	1
2,4-Dinitrophenol	9.3	U	9.3	5.7	ug/L		08/01/23 08:59	08/09/23 13:25	1
2-Acetylaminofluorene	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 13:25	1
2-Naphthylamine	9.3	U	9.3	6.5	ug/L		08/01/23 08:59	08/09/23 13:25	1
2-Picoline	9.3	U	9.3	0.93	ug/L		08/01/23 08:59	08/09/23 13:25	1
3,3'-Dichlorobenzidine	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 13:25	1
3,3'-Dimethylbenzidine	9.3	U	9.3	3.1	ug/L		08/01/23 08:59	08/09/23 13:25	1
3-Methylcholanthrene	9.3	U	9.3	0.93	ug/L		08/01/23 08:59	08/09/23 13:25	1
3-Nitroaniline	9.3	U	9.3	1.9	ug/L		08/01/23 08:59	08/09/23 13:25	1
4,6-Dinitro-2-methylphenol	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 13:25	1
4-Aminobiphenyl	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 13:25	1
4-Chloroaniline	9.3	U	9.3	3.1	ug/L		08/01/23 08:59	08/09/23 13:25	1
4-Nitroaniline	9.3	U	9.3	1.4	ug/L		08/01/23 08:59	08/09/23 13:25	1
4-Nitroquinoline-1-oxide	46	U	46	4.6	ug/L		08/01/23 08:59	08/09/23 13:25	1
7,12-Dimethylbenz(a)anthracene	9.3	U	9.3	1.7	ug/L		08/01/23 08:59	08/09/23 13:25	1
Acetophenone	9.3	U	9.3	0.93	ug/L		08/01/23 08:59	08/09/23 13:25	1
Aniline	9.3	U	9.3	1.0	ug/L		08/01/23 08:59	08/09/23 13:25	1
Aramite, Total	9.3	U	9.3	3.4	ug/L		08/01/23 08:59	08/09/23 13:25	1
Benzyl alcohol	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 13:25	1
Bis(2-chloroethoxy)methane	0.93	U	0.93	0.46	ug/L		08/01/23 08:59	08/09/23 13:25	1
Bis(2-chloroethyl)ether	0.93	U	0.93	0.46	ug/L		08/01/23 08:59	08/09/23 13:25	1
Butyl benzyl phthalate	9.3	U	9.3	0.65	ug/L		08/01/23 08:59	08/09/23 13:25	1
Chlorobenzilate	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 13:25	1
Di-n-butyl phthalate	9.3	U	9.3	1.7	ug/L		08/01/23 08:59	08/09/23 13:25	1

Client Sample ID: 16WC1B
Date Collected: 07/26/23 12:05
Date Received: 07/28/23 09:40

Lab Sample ID: 240-189273-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Disulfoton	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 13:25	1
Ethyl Parathion	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 13:25	1
Famphur	9.3	U	9.3	4.6	ug/L		08/01/23 08:59	08/09/23 13:25	1
Hexachlorocyclopentadiene	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 13:25	1
Hexachloroethane	9.3	U	9.3	0.37	ug/L		08/01/23 08:59	08/09/23 13:25	1
Isophorone	9.3	U	9.3	0.46	ug/L		08/01/23 08:59	08/09/23 13:25	1
Methapyrilene	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 13:25	1
Methyl methanesulfonate	9.3	U	9.3	0.93	ug/L		08/01/23 08:59	08/09/23 13:25	1
Methyl parathion	9.3	U	9.3	3.0	ug/L		08/01/23 08:59	08/09/23 13:25	1
N-Nitrosodi-n-butylamine	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 13:25	1
N-Nitrosodi-n-propylamine	9.3	U	9.3	0.46	ug/L		08/01/23 08:59	08/09/23 13:25	1
N-Nitrosodiphenylamine	9.3	U	9.3	0.54	ug/L		08/01/23 08:59	08/09/23 13:25	1
N-Nitrosomethylethylamine	9.3	U	9.3	0.93	ug/L		08/01/23 08:59	08/09/23 13:25	1
N-Nitrosopyrrolidine	9.3	U	9.3	0.46	ug/L		08/01/23 08:59	08/09/23 13:25	1
p-Dimethylamino azobenzene	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 13:25	1
p-Phenylene diamine	140	U *-	140	24	ug/L		08/01/23 08:59	08/09/23 13:25	1
Pyridine	9.3	U	9.3	1.9	ug/L		08/01/23 08:59	08/09/23 13:25	1
N-Nitro-o-toluidine	4.6	U	4.6	1.1	ug/L		08/01/23 08:59	08/09/23 13:25	1
o-Toluidine	9.3	U	9.3	3.7	ug/L		08/01/23 08:59	08/09/23 13:25	1
4-Nitrophenol	9.3	U	9.3	2.8	ug/L		08/01/23 08:59	08/09/23 13:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*84*		*31 - 140*	*08/01/23 08:59*	*08/09/23 13:25*	*1*
Phenol-d5 (Surr)	*48*		*18 - 120*	*08/01/23 08:59*	*08/09/23 13:25*	*1*
Nitrobenzene-d5 (Surr)	*78*		*13 - 120*	*08/01/23 08:59*	*08/09/23 13:25*	*1*
2-Fluorophenol (Surr)	*75*		*12 - 120*	*08/01/23 08:59*	*08/09/23 13:25*	*1*
2-Fluorobiphenyl (Surr)	*73*		*23 - 120*	*08/01/23 08:59*	*08/09/23 13:25*	*1*
2,4,6-Tribromophenol (Surr)	*55*		*10 - 126*	*08/01/23 08:59*	*08/09/23 13:25*	*1*

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

Analyte	RL	MDL	Units
Acrolein	10	2.1	ug/L
trans-1,4-Dichloro-2-butene	10	1.3	ug/L

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

Prep: 3510C LVI

Analyte	RL	MDL	Units
1,3,5-Trinitrobenzene	10	3.0	ug/L
1,4-Naphthoquinone	10	3.0	ug/L
1-Naphthylamine	10	3.0	ug/L
2,4-Dimethylphenol	10	3.0	ug/L
2,4-Dinitrophenol	10	6.2	ug/L
2-Acetylaminofluorene	10	3.0	ug/L
2-Naphthylamine	10	7.0	ug/L
2-Picoline	10	1.0	ug/L
3,3'-Dichlorobenzidine	10	3.0	ug/L
3,3'-Dimethylbenzidine	10	3.3	ug/L
3-Methylcholanthrene	10	1.0	ug/L
3-Nitroaniline	10	2.0	ug/L
4,6-Dinitro-2-methylphenol	10	3.0	ug/L
4-Aminobiphenyl	10	3.0	ug/L
4-Chloroaniline	10	3.3	ug/L
4-Nitroaniline	10	1.5	ug/L
4-Nitrophenol	10	3.0	ug/L
4-Nitroquinoline-1-oxide	50	5.0	ug/L
7,12-Dimethylbenz(a)anthracene	10	1.8	ug/L
Acetophenone	10	1.0	ug/L
Aniline	10	1.1	ug/L
Aramite, Total	10	3.7	ug/L
Benzyl alcohol	10	3.0	ug/L
Bis(2-chloroethoxy)methane	1.0	0.50	ug/L
Bis(2-chloroethyl)ether	1.0	0.50	ug/L
Butyl benzyl phthalate	10	0.70	ug/L
Chlorobenzilate	10	3.0	ug/L
Di-n-butyl phthalate	10	1.8	ug/L
Disulfoton	10	3.0	ug/L
Ethyl Parathion	10	3.0	ug/L
Famphur	10	5.0	ug/L
Hexachlorocyclopentadiene	10	3.0	ug/L
Hexachloroethane	10	0.40	ug/L
Isophorone	10	0.50	ug/L
Methapyrilene	10	3.0	ug/L
Methyl methanesulfonate	10	1.0	ug/L
Methyl parathion	10	3.2	ug/L
N-Nitro-o-toluidine	5.0	1.1	ug/L
N-Nitrosodi-n-butylamine	10	3.0	ug/L
N-Nitrosodi-n-propylamine	10	0.50	ug/L
N-Nitrosodiphenylamine	10	0.58	ug/L
N-Nitrosomethylethylamine	10	1.0	ug/L
N-Nitrosopyrrolidine	10	0.50	ug/L
o-Toluidine	10	4.0	ug/L
p-Dimethylamino azobenzene	10	3.0	ug/L
p-Phenylene diamine	150	26	ug/L

Default Detection Limits

Client: TRC, Engineers, Inc.
Project/Site: RFAAP Radford HWMU16

Job ID: 240-189273-1

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

Prep: 3510C LVI

Analyte	RL	MDL	Units
Pyridine	10	2.0	ug/L

Surrogate Summary

Client: TRC, Engineers, Inc.
Project/Site: RFAAP Radford HWMU16

Job ID: 240-189273-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DBFM	BFB	DCA
Lab Sample ID	Client Sample ID	(78-122)	(73-120)	(56-136)	(62-137)
240-189273-1	16C1	105	104	98	110
240-189273-2	16MW8	106	105	99	111
240-189273-3	16MW9	106	102	97	110
240-189273-4	16WC1A	106	105	97	111
240-189273-4 MS	16WC1A	105	103	101	107
240-189273-4 MSD	16WC1A	106	108	103	110
240-189273-5	16WDUP	105	104	98	110
240-189273-6	16WC1B	105	105	97	111
LCS 240-583235/4	Lab Control Sample	106	106	103	108
MB 240-583235/7	Method Blank	104	104	99	110

Surrogate Legend

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

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		TPHL	PHL	NBZ	2FP	FBP	TBP
Lab Sample ID	Client Sample ID	(31-140)	(18-120)	(13-120)	(12-120)	(23-120)	(10-126)
240-189273-1	16C1	93	78	76	82	70	60
240-189273-2	16MW8	94	61	81	86	75	60
240-189273-3	16MW9	95	81	80	91	70	64
240-189273-4	16WC1A	93	60	80	47	73	44
240-189273-4 MS	16WC1A	80	75	83	91	75	71
240-189273-4 MSD	16WC1A	84	93	87	131 S1+	79	89
240-189273-5	16WDUP	95	53	85	27	78	23
240-189273-6	16WC1B	84	48	78	75	73	55
LCS 240-582476/11-A	Lab Control Sample	87	75	89	140 S1+	83	93
LCS 240-582476/12-A	Lab Control Sample	90	34	83	79	81	80
MB 240-582476/10-A	Method Blank	109	75	87	106	104	70

Surrogate Legend

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

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

Lab Sample ID: MB 240-583235/7
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 583235

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	10	U	10	2.1	ug/L			08/08/23 15:18	1
trans-1,4-Dichloro-2-butene	10	U	10	1.3	ug/L			08/08/23 15:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*78 - 122*		*08/08/23 15:18*	*1*
Dibromofluoromethane (Surr)	*104*		*73 - 120*		*08/08/23 15:18*	*1*
4-Bromofluorobenzene (Surr)	*99*		*56 - 136*		*08/08/23 15:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*62 - 137*		*08/08/23 15:18*	*1*

Lab Sample ID: LCS 240-583235/4
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 583235

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Acrolein			125	192		ug/L		154	10 - 199		
trans-1,4-Dichloro-2-butene			25.0	11.4		ug/L		46	14 - 173		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*106*		*78 - 122*
Dibromofluoromethane (Surr)	*106*		*73 - 120*
4-Bromofluorobenzene (Surr)	*103*		*56 - 136*
1,2-Dichloroethane-d4 (Surr)	*108*		*62 - 137*

Lab Sample ID: 240-189273-4 MS
Client Sample ID: 16WC1A
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 583235

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Acrolein	10	U	125	196		ug/L		157	10 - 190		
trans-1,4-Dichloro-2-butene	10	U	25.0	10.3		ug/L		41	10 - 149		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*105*		*78 - 122*
Dibromofluoromethane (Surr)	*103*		*73 - 120*
4-Bromofluorobenzene (Surr)	*101*		*56 - 136*
1,2-Dichloroethane-d4 (Surr)	*107*		*62 - 137*

Lab Sample ID: 240-189273-4 MSD
Client Sample ID: 16WC1A
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 583235

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acrolein	10	U	125	198		ug/L		158	10 - 190	1	35
trans-1,4-Dichloro-2-butene	10	U	25.0	10.4		ug/L		42	10 - 149	1	26

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*106*		*78 - 122*

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

Lab Sample ID: 240-189273-4 MSD
Matrix: Water
Analysis Batch: 583235

Client Sample ID: 16WC1A
Prep Type: Total/NA

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Dibromofluoromethane (Surr)	*108*		*73 - 120*
4-Bromofluorobenzene (Surr)	*103*		*56 - 136*
1,2-Dichloroethane-d4 (Surr)	*110*		*62 - 137*

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

Lab Sample ID: MB 240-582476/10-A
Matrix: Water
Analysis Batch: 583312

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 582476

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	10	U	10	3.0	ug/L		08/01/23 08:59	08/09/23 09:49	1
1,4-Naphthoquinone	10	U	10	3.0	ug/L		08/01/23 08:59	08/09/23 09:49	1
1-Naphthylamine	10	U	10	3.0	ug/L		08/01/23 08:59	08/09/23 09:49	1
2,4-Dimethylphenol	10	U	10	3.0	ug/L		08/01/23 08:59	08/09/23 09:49	1
2,4-Dinitrophenol	10	U	10	6.2	ug/L		08/01/23 08:59	08/09/23 09:49	1
2-Acetylaminofluorene	10	U	10	3.0	ug/L		08/01/23 08:59	08/09/23 09:49	1
2-Naphthylamine	10	U	10	7.0	ug/L		08/01/23 08:59	08/09/23 09:49	1
2-Picoline	10	U	10	1.0	ug/L		08/01/23 08:59	08/09/23 09:49	1
3,3'-Dichlorobenzidine	10	U	10	3.0	ug/L		08/01/23 08:59	08/09/23 09:49	1
3,3'-Dimethylbenzidine	10	U	10	3.3	ug/L		08/01/23 08:59	08/09/23 09:49	1
3-Methylcholanthrene	10	U	10	1.0	ug/L		08/01/23 08:59	08/09/23 09:49	1
3-Nitroaniline	10	U	10	2.0	ug/L		08/01/23 08:59	08/09/23 09:49	1
4,6-Dinitro-2-methylphenol	10	U	10	3.0	ug/L		08/01/23 08:59	08/09/23 09:49	1
4-Aminobiphenyl	10	U	10	3.0	ug/L		08/01/23 08:59	08/09/23 09:49	1
4-Chloroaniline	10	U	10	3.3	ug/L		08/01/23 08:59	08/09/23 09:49	1
4-Nitroaniline	10	U	10	1.5	ug/L		08/01/23 08:59	08/09/23 09:49	1
4-Nitroquinoline-1-oxide	50	U	50	5.0	ug/L		08/01/23 08:59	08/09/23 09:49	1
7,12-Dimethylbenz(a)anthracene	10	U	10	1.8	ug/L		08/01/23 08:59	08/09/23 09:49	1
Acetophenone	10	U	10	1.0	ug/L		08/01/23 08:59	08/09/23 09:49	1
Aniline	10	U	10	1.1	ug/L		08/01/23 08:59	08/09/23 09:49	1
Aramite, Total	10	U	10	3.7	ug/L		08/01/23 08:59	08/09/23 09:49	1
Benzyl alcohol	10	U	10	3.0	ug/L		08/01/23 08:59	08/09/23 09:49	1
Bis(2-chloroethoxy)methane	1.0	U	1.0	0.50	ug/L		08/01/23 08:59	08/09/23 09:49	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.50	ug/L		08/01/23 08:59	08/09/23 09:49	1
Butyl benzyl phthalate	10	U	10	0.70	ug/L		08/01/23 08:59	08/09/23 09:49	1
Chlorobenzilate	10	U	10	3.0	ug/L		08/01/23 08:59	08/09/23 09:49	1
Di-n-butyl phthalate	10	U	10	1.8	ug/L		08/01/23 08:59	08/09/23 09:49	1
Disulfoton	10	U	10	3.0	ug/L		08/01/23 08:59	08/09/23 09:49	1
Ethyl Parathion	10	U	10	3.0	ug/L		08/01/23 08:59	08/09/23 09:49	1
Famphur	10	U	10	5.0	ug/L		08/01/23 08:59	08/09/23 09:49	1
Hexachlorocyclopentadiene	10	U	10	3.0	ug/L		08/01/23 08:59	08/09/23 09:49	1
Hexachloroethane	10	U	10	0.40	ug/L		08/01/23 08:59	08/09/23 09:49	1
Isophorone	10	U	10	0.50	ug/L		08/01/23 08:59	08/09/23 09:49	1
Methapyrilene	10	U	10	3.0	ug/L		08/01/23 08:59	08/09/23 09:49	1
Methyl methanesulfonate	10	U	10	1.0	ug/L		08/01/23 08:59	08/09/23 09:49	1
Methyl parathion	10	U	10	3.2	ug/L		08/01/23 08:59	08/09/23 09:49	1
N-Nitrosodi-n-butylamine	10	U	10	3.0	ug/L		08/01/23 08:59	08/09/23 09:49	1
N-Nitrosodi-n-propylamine	10	U	10	0.50	ug/L		08/01/23 08:59	08/09/23 09:49	1

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

Lab Sample ID: MB 240-582476/10-A
Matrix: Water
Analysis Batch: 583312

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 582476

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiphenylamine	10	U	10	0.58	ug/L		08/01/23 08:59	08/09/23 09:49	1
N-Nitrosomethylethylamine	10	U	10	1.0	ug/L		08/01/23 08:59	08/09/23 09:49	1
N-Nitrosopyrrolidine	10	U	10	0.50	ug/L		08/01/23 08:59	08/09/23 09:49	1
p-Dimethylamino azobenzene	10	U	10	3.0	ug/L		08/01/23 08:59	08/09/23 09:49	1
p-Phenylene diamine	150	U	150	26	ug/L		08/01/23 08:59	08/09/23 09:49	1
Pyridine	10	U	10	2.0	ug/L		08/01/23 08:59	08/09/23 09:49	1
N-Nitro-o-toluidine	5.0	U	5.0	1.1	ug/L		08/01/23 08:59	08/09/23 09:49	1
o-Toluidine	10	U	10	4.0	ug/L		08/01/23 08:59	08/09/23 09:49	1
4-Nitrophenol	10	U	10	3.0	ug/L		08/01/23 08:59	08/09/23 09:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*109*		*31 - 140*	*08/01/23 08:59*	*08/09/23 09:49*	*1*
Phenol-d5 (Surr)	*75*		*18 - 120*	*08/01/23 08:59*	*08/09/23 09:49*	*1*
Nitrobenzene-d5 (Surr)	*87*		*13 - 120*	*08/01/23 08:59*	*08/09/23 09:49*	*1*
2-Fluorophenol (Surr)	*106*		*12 - 120*	*08/01/23 08:59*	*08/09/23 09:49*	*1*
2-Fluorobiphenyl (Surr)	*104*		*23 - 120*	*08/01/23 08:59*	*08/09/23 09:49*	*1*
2,4,6-Tribromophenol (Surr)	*70*		*10 - 126*	*08/01/23 08:59*	*08/09/23 09:49*	*1*

Lab Sample ID: LCS 240-582476/11-A
Matrix: Water
Analysis Batch: 583312

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 582476

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dimethylphenol	32.0	21.7		ug/L		68	44 - 120
2,4-Dinitrophenol	64.0	54.4		ug/L		85	11 - 139
3,3'-Dichlorobenzidine	64.0	60.7		ug/L		95	51 - 154
3-Nitroaniline	32.0	34.9		ug/L		109	47 - 123
4,6-Dinitro-2-methylphenol	64.0	58.1		ug/L		91	49 - 130
4-Chloroaniline	32.0	26.1		ug/L		82	10 - 126
4-Nitroaniline	32.0	37.9		ug/L		118	56 - 127
Acetophenone	32.0	27.4		ug/L		86	47 - 120
Aniline	32.0	22.5		ug/L		70	26 - 120
Benzyl alcohol	32.0	25.6		ug/L		80	10 - 120
Bis(2-chloroethoxy)methane	32.0	26.0		ug/L		81	49 - 120
Bis(2-chloroethyl)ether	32.0	30.2		ug/L		94	40 - 120
Butyl benzyl phthalate	32.0	25.5		ug/L		80	58 - 124
Di-n-butyl phthalate	32.0	28.4		ug/L		89	59 - 130
Hexachlorocyclopentadiene	32.0	18.0		ug/L		56	15 - 120
Hexachloroethane	32.0	23.3		ug/L		73	39 - 120
Isophorone	32.0	26.9		ug/L		84	51 - 120
N-Nitrosodi-n-propylamine	32.0	27.8		ug/L		87	49 - 120
N-Nitrosodiphenylamine	32.0	26.5		ug/L		83	56 - 125
Pyridine	64.0	44.8		ug/L		70	10 - 120
4-Nitrophenol	64.0	37.3		ug/L		58	10 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14 (Surr)	*87*		*31 - 140*
Phenol-d5 (Surr)	*75*		*18 - 120*

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

Lab Sample ID: LCS 240-582476/11-A
Matrix: Water
Analysis Batch: 583312

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 582476

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5 (Surr)	*89*		*13 - 120*
2-Fluorophenol (Surr)	*140*	*S1+*	*12 - 120*
2-Fluorobiphenyl (Surr)	*83*		*23 - 120*
2,4,6-Tribromophenol (Surr)	*93*		*10 - 126*

Lab Sample ID: LCS 240-582476/12-A
Matrix: Water
Analysis Batch: 583312

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 582476

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,3,5-Trinitrobenzene	32.0	26.7		ug/L		84	42 - 123
1,4-Naphthoquinone	32.0	3.71	J	ug/L		12	10 - 133
1-Naphthylamine	32.0	7.93	J	ug/L		25	10 - 120
2-Acetylaminofluorene	32.0	29.5		ug/L		92	57 - 125
2-Naphthylamine	32.0	18.7		ug/L		59	10 - 124
2-Picoline	32.0	22.9		ug/L		71	34 - 120
3,3'-Dimethylbenzidine	32.0	19.7		ug/L		61	10 - 129
3-Methylcholanthrene	64.0	22.8		ug/L		36	27 - 126
4-Aminobiphenyl	32.0	21.8		ug/L		68	29 - 120
4-Nitroquinoline-1-oxide	32.0	21.9	J	ug/L		68	10 - 122
7,12-Dimethylbenz(a)anthracene	32.0	24.1		ug/L		75	23 - 120
Aramite, Total	32.0	23.1		ug/L		72	19 - 156
Chlorobenzilate	32.0	22.1		ug/L		69	38 - 135
Disulfoton	32.0	22.3		ug/L		70	35 - 133
Ethyl Parathion	32.0	25.7		ug/L		80	51 - 128
Famphur	32.0	33.8	E	ug/L		106	10 - 199
Methapyrilene	64.0	39.2		ug/L		61	30 - 120
Methyl methanesulfonate	32.0	10.1		ug/L		31	10 - 120
Methyl parathion	32.0	26.5		ug/L		83	53 - 138
N-Nitrosodi-n-butylamine	32.0	26.6		ug/L		83	54 - 123
N-Nitrosomethylethylamine	32.0	22.2		ug/L		69	39 - 120
N-Nitrosopyrrolidine	32.0	25.4		ug/L		79	37 - 123
p-Dimethylamino azobenzene	32.0	27.2		ug/L		85	54 - 131
p-Phenylene diamine	32.0	150	U *-	ug/L		0	10 - 120
N-Nitro-o-toluidine	32.0	29.7		ug/L		93	54 - 126
o-Toluidine	32.0	23.0		ug/L		72	10 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Terphenyl-d14 (Surr)	*90*		*31 - 140*
Phenol-d5 (Surr)	*34*		*18 - 120*
Nitrobenzene-d5 (Surr)	*83*		*13 - 120*
2-Fluorophenol (Surr)	*79*		*12 - 120*
2-Fluorobiphenyl (Surr)	*81*		*23 - 120*
2,4,6-Tribromophenol (Surr)	*80*		*10 - 126*

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

Lab Sample ID: 240-189273-4 MS
Matrix: Water
Analysis Batch: 583312

Client Sample ID: 16WC1A
Prep Type: Total/NA
Prep Batch: 582476

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dimethylphenol	9.3	U	29.6	18.6		ug/L		63	27 - 120
2,4-Dinitrophenol	9.3	U	59.3	50.0		ug/L		84	10 - 123
3,3'-Dichlorobenzidine	9.3	U	59.3	50.8		ug/L		86	10 - 183
3-Nitroaniline	9.3	U	29.6	23.0		ug/L		78	10 - 127
4,6-Dinitro-2-methylphenol	9.3	U	59.3	48.2		ug/L		81	10 - 143
4-Chloroaniline	9.3	U F2	29.6	9.48		ug/L		32	10 - 120
4-Nitroaniline	9.3	U	29.6	28.9		ug/L		97	10 - 137
Acetophenone	9.3	U	29.6	23.4		ug/L		79	22 - 120
Aniline	9.3	U F2	29.6	14.0		ug/L		47	10 - 120
Benzyl alcohol	9.3	U	29.6	17.7		ug/L		60	17 - 120
Bis(2-chloroethoxy)methane	0.93	U	29.6	22.9		ug/L		77	25 - 120
Bis(2-chloroethyl)ether	0.93	U	29.6	23.5		ug/L		79	23 - 120
Butyl benzyl phthalate	9.3	U	29.6	22.3		ug/L		75	24 - 134
Di-n-butyl phthalate	9.3	U	29.6	25.8		ug/L		87	21 - 137
Hexachlorocyclopentadiene	9.3	U	29.6	9.62		ug/L		32	10 - 120
Hexachloroethane	9.3	U	29.6	13.3		ug/L		45	10 - 120
Isophorone	9.3	U	29.6	23.9		ug/L		81	27 - 120
N-Nitrosodi-n-propylamine	9.3	U	29.6	24.3		ug/L		82	23 - 120
N-Nitrosodiphenylamine	9.3	U	29.6	23.1		ug/L		78	22 - 121
Pyridine	9.3	U F2	59.3	45.1		ug/L		76	10 - 120
4-Nitrophenol	9.3	U	59.3	34.3		ug/L		58	10 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Terphenyl-d14 (Surr)	*80*		*31 - 140*
Phenol-d5 (Surr)	*75*		*18 - 120*
Nitrobenzene-d5 (Surr)	*83*		*13 - 120*
2-Fluorophenol (Surr)	*91*		*12 - 120*
2-Fluorobiphenyl (Surr)	*75*		*23 - 120*
2,4,6-Tribromophenol (Surr)	*71*		*10 - 126*

Lab Sample ID: 240-189273-4 MSD
Matrix: Water
Analysis Batch: 583312

Client Sample ID: 16WC1A
Prep Type: Total/NA
Prep Batch: 582476

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4-Dimethylphenol	9.3	U	29.6	21.6		ug/L		73	27 - 120	15	30
2,4-Dinitrophenol	9.3	U	59.3	41.1		ug/L		69	10 - 123	20	35
3,3'-Dichlorobenzidine	9.3	U	59.3	55.7		ug/L		94	10 - 183	9	35
3-Nitroaniline	9.3	U	29.6	30.5		ug/L		103	10 - 127	28	35
4,6-Dinitro-2-methylphenol	9.3	U	59.3	42.3		ug/L		71	10 - 143	13	35
4-Chloroaniline	9.3	U F2	29.6	21.6	F2	ug/L		73	10 - 120	78	35
4-Nitroaniline	9.3	U	29.6	38.1		ug/L		129	10 - 137	28	35
Acetophenone	9.3	U	29.6	25.8		ug/L		87	22 - 120	10	35
Aniline	9.3	U F2	29.6	21.1	F2	ug/L		71	10 - 120	41	35
Benzyl alcohol	9.3	U	29.6	19.4		ug/L		65	17 - 120	9	35
Bis(2-chloroethoxy)methane	0.93	U	29.6	24.1		ug/L		81	25 - 120	5	35
Bis(2-chloroethyl)ether	0.93	U	29.6	25.6		ug/L		86	23 - 120	8	33
Butyl benzyl phthalate	9.3	U	29.6	23.3		ug/L		79	24 - 134	4	33

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

Lab Sample ID: 240-189273-4 MSD
Client Sample ID: 16WC1A
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 583312
Prep Batch: 582476

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Di-n-butyl phthalate	9.3	U	29.6	26.7		ug/L		90	21 - 137	3	34
Hexachlorocyclopentadiene	9.3	U	29.6	11.5		ug/L		39	10 - 120	18	35
Hexachloroethane	9.3	U	29.6	16.1		ug/L		54	10 - 120	19	35
Isophorone	9.3	U	29.6	25.2		ug/L		85	27 - 120	5	34
N-Nitrosodi-n-propylamine	9.3	U	29.6	26.7		ug/L		90	23 - 120	9	34
N-Nitrosodiphenylamine	9.3	U	29.6	24.7		ug/L		84	22 - 121	7	34
Pyridine	9.3	U F2	59.3	57.8	E F2	ug/L		97	10 - 120	25	20
4-Nitrophenol	9.3	U	59.3	36.2		ug/L		61	10 - 120	5	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Terphenyl-d14 (Surr)	*84*		*31 - 140*
Phenol-d5 (Surr)	*93*		*18 - 120*
Nitrobenzene-d5 (Surr)	*87*		*13 - 120*
2-Fluorophenol (Surr)	*131*	*S1+*	*12 - 120*
2-Fluorobiphenyl (Surr)	*79*		*23 - 120*
2,4,6-Tribromophenol (Surr)	*89*		*10 - 126*

GC/MS VOA

Analysis Batch: 583235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-189273-1	16C1	Total/NA	Water	8260D	
240-189273-2	16MW8	Total/NA	Water	8260D	
240-189273-3	16MW9	Total/NA	Water	8260D	
240-189273-4	16WC1A	Total/NA	Water	8260D	
240-189273-5	16WDUP	Total/NA	Water	8260D	
240-189273-6	16WC1B	Total/NA	Water	8260D	
MB 240-583235/7	Method Blank	Total/NA	Water	8260D	
LCS 240-583235/4	Lab Control Sample	Total/NA	Water	8260D	
240-189273-4 MS	16WC1A	Total/NA	Water	8260D	
240-189273-4 MSD	16WC1A	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 582476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-189273-1	16C1	Total/NA	Water	3510C LVI	
240-189273-2	16MW8	Total/NA	Water	3510C LVI	
240-189273-3	16MW9	Total/NA	Water	3510C LVI	
240-189273-4	16WC1A	Total/NA	Water	3510C LVI	
240-189273-5	16WDUP	Total/NA	Water	3510C LVI	
240-189273-6	16WC1B	Total/NA	Water	3510C LVI	
MB 240-582476/10-A	Method Blank	Total/NA	Water	3510C LVI	
LCS 240-582476/11-A	Lab Control Sample	Total/NA	Water	3510C LVI	
LCS 240-582476/12-A	Lab Control Sample	Total/NA	Water	3510C LVI	
240-189273-4 MS	16WC1A	Total/NA	Water	3510C LVI	
240-189273-4 MSD	16WC1A	Total/NA	Water	3510C LVI	

Analysis Batch: 583312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-189273-1	16C1	Total/NA	Water	8270E	582476
240-189273-2	16MW8	Total/NA	Water	8270E	582476
240-189273-3	16MW9	Total/NA	Water	8270E	582476
240-189273-4	16WC1A	Total/NA	Water	8270E	582476
240-189273-5	16WDUP	Total/NA	Water	8270E	582476
240-189273-6	16WC1B	Total/NA	Water	8270E	582476
MB 240-582476/10-A	Method Blank	Total/NA	Water	8270E	582476
LCS 240-582476/11-A	Lab Control Sample	Total/NA	Water	8270E	582476
LCS 240-582476/12-A	Lab Control Sample	Total/NA	Water	8270E	582476
240-189273-4 MS	16WC1A	Total/NA	Water	8270E	582476
240-189273-4 MSD	16WC1A	Total/NA	Water	8270E	582476

Client Sample ID: 16C1 — Lab Sample ID: 240-189273-1

Date Collected: 07/27/23 12:45 — **Matrix: Water**
Date Received: 07/28/23 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	583235	CDG	EET CLE	08/08/23 19:54
Total/NA	Prep	3510C LVI			582476	LK2	EET CLE	08/01/23 08:59
Total/NA	Analysis	8270E		1	583312	MRU	EET CLE	08/09/23 11:52

Client Sample ID: 16MW8 — Lab Sample ID: 240-189273-2

Date Collected: 07/26/23 10:05 — **Matrix: Water**
Date Received: 07/28/23 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	583235	CDG	EET CLE	08/08/23 20:19
Total/NA	Prep	3510C LVI			582476	LK2	EET CLE	08/01/23 08:59
Total/NA	Analysis	8270E		1	583312	MRU	EET CLE	08/09/23 12:15

Client Sample ID: 16MW9 — Lab Sample ID: 240-189273-3

Date Collected: 07/27/23 11:25 — **Matrix: Water**
Date Received: 07/28/23 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	583235	CDG	EET CLE	08/08/23 20:44
Total/NA	Prep	3510C LVI			582476	LK2	EET CLE	08/01/23 08:59
Total/NA	Analysis	8270E		1	583312	MRU	EET CLE	08/09/23 12:38

Client Sample ID: 16WC1A — Lab Sample ID: 240-189273-4

Date Collected: 07/27/23 09:55 — **Matrix: Water**
Date Received: 07/28/23 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	583235	CDG	EET CLE	08/08/23 21:09
Total/NA	Prep	3510C LVI			582476	LK2	EET CLE	08/01/23 08:59
Total/NA	Analysis	8270E		1	583312	MRU	EET CLE	08/09/23 13:48

Client Sample ID: 16WDUP — Lab Sample ID: 240-189273-5

Date Collected: 07/27/23 10:20 — **Matrix: Water**
Date Received: 07/28/23 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	583235	CDG	EET CLE	08/08/23 21:35
Total/NA	Prep	3510C LVI			582476	LK2	EET CLE	08/01/23 08:59
Total/NA	Analysis	8270E		1	583312	MRU	EET CLE	08/09/23 13:01

Client Sample ID: 16WC1B — Lab Sample ID: 240-189273-6

Date Collected: 07/26/23 12:05 — **Matrix: Water**
Date Received: 07/28/23 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	583235	CDG	EET CLE	08/08/23 22:00

Lab Chronicle

Client: TRC, Engineers, Inc.
Job ID: 240-189273-1
Project/Site: RFAAP Radford HWMU16

Client Sample ID: 16WC1B
Date Collected: 07/26/23 12:05
Date Received: 07/28/23 09:40

Lab Sample ID: 240-189273-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C LVI			582476	LK2	EET CLE	08/01/23 08:59
Total/NA	Analysis	8270E		1	583312	MRU	EET CLE	08/09/23 13:25

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: TRC, Engineers, Inc. Job ID: 240-189273-1
Project/Site: RFAAP Radford HWMU16

Laboratory: Eurofins Cleveland

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

Authority	Program	Identification Number	Expiration Date
Virginia	NELAP	460175	09-14-23

Method Summary

Client: TRC, Engineers, Inc.
Job ID: 240-189273-1
Project/Site: RFAAP Radford HWMU16

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CLE
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET CLE
3510C LVI	Liquid-Liquid Extraction (Separatory Funnel) LVI	SW846	EET CLE
5030C	Purge and Trap	SW846	EET CLE

Protocol References:

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

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Sample Summary

Client: TRC, Engineers, Inc.
Job ID: 240-189273-1
Project/Site: RFAAP Radford HWMU16

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-189273-1	16C1	Water	07/27/23 12:45	07/28/23 09:40
240-189273-2	16MW8	Water	07/26/23 10:05	07/28/23 09:40
240-189273-3	16MW9	Water	07/27/23 11:25	07/28/23 09:40
240-189273-4	16WC1A	Water	07/27/23 09:55	07/28/23 09:40
240-189273-5	16WDUP	Water	07/27/23 10:20	07/28/23 09:40
240-189273-6	16WC1B	Water	07/26/23 12:05	07/28/23 09:40

Eurofins Cleveland

Quantitation Limit Exceptions Summary

Client: TRC, Engineers, Inc. Job ID: 240-189273-1
Project/Site: RFAAP Radford HWMU16

The requested project specific reporting limits listed below were less than laboratory standard quantitation limits (PQL) but greater than or equal to the laboratory method detection limits (MDL). It must be noted that results reported below lab standard quantitation limits may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

Method	Analyte	Matrix	Prep Type	Unit	Client RL	Lab PQL
8260D	Acrolein	Water	Total/NA	ug/L	10	20
8270E	1,4-Naphthoquinone	Water	Total/NA	ug/L	10	50

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Instrument ID: A4AG2 Analysis Batch Number: 581832

Lab Sample ID: STD6 240-581832/2 ICIS Client Sample ID:

Date Analyzed: 07/26/23 08:38 Lab File ID: CCV L1LVI.D GC Column: RXI-5SILMS/II ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	4.30	Poor chromatography	KDZ4	07/26/23 09:20
Pyridine	4.61	Poor chromatography	KDZ4	07/26/23 09:20
Benzoic acid	7.53	Poor chromatography	KDZ4	07/26/23 09:21

Lab Sample ID: STD5 240-581832/3 IC Client Sample ID:

Date Analyzed: 07/26/23 09:05 Lab File ID: CCV L2LVI.D GC Column: RXI-5SILMS/II ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzoic acid	7.52	Poor chromatography	KDZ4	07/26/23 09:39
4-Nitrophenol	9.35	Poor chromatography	KDZ4	07/26/23 09:40

Lab Sample ID: STD4 240-581832/4 IC Client Sample ID:

Date Analyzed: 07/26/23 09:28 Lab File ID: CCV L3LVI.D GC Column: RXI-5SILMS/II ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzoic acid	7.54	Poor chromatography	KDZ4	07/26/23 09:55
2,4-Dinitrophenol	9.33	Poor chromatography	KDZ4	07/26/23 09:56

Lab Sample ID: STD3 240-581832/5 IC Client Sample ID:

Date Analyzed: 07/26/23 09:51 Lab File ID: 5.D GC Column: RXI-5SILMS/II ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzoic acid	7.54	Poor chromatography	KDZ4	07/26/23 10:15
Caprolactam	8.14	Poor chromatography	KDZ4	07/26/23 10:16

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Instrument ID: A4AG2 Analysis Batch Number: 581832

Lab Sample ID: STD2 240-581832/6 IC Client Sample ID:

Date Analyzed: 07/26/23 10:15 Lab File ID: 6.D GC Column: RXI-5SILMS/II ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Pyridine	4.63	Poor chromatography	KDZ4	07/26/23 10:45
2,4,5-Trichlorophenol	8.70	Poor chromatography	KDZ4	07/26/23 10:46
4,6-Dinitro-2-methylphenol		Invalid Compound ID	KDZ4	07/26/23 12:30
Benzoic acid		Invalid Compound ID	KDZ4	07/26/23 10:45
Pentachlorophenol		Invalid Compound ID	KDZ4	07/26/23 12:33

Lab Sample ID: STD1 240-581832/7 IC Client Sample ID:

Date Analyzed: 07/26/23 10:38 Lab File ID: 7.D GC Column: RXI-5SILMS/II ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Pyridine	4.65	Poor chromatography	KDZ4	07/26/23 11:01
Caprolactam	8.15	Poor chromatography	KDZ4	07/26/23 11:02
Benzaldehyde		Invalid Compound ID	KDZ4	07/26/23 12:21
Benzo[g,h,i]perylene	18.75	Poor chromatography	KDZ4	07/26/23 11:02

Lab Sample ID: STD7 240-581832/8 IC Client Sample ID:

Date Analyzed: 07/26/23 11:01 Lab File ID: 8.D GC Column: RXI-5SILMS/II ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzoic acid	7.53	Poor chromatography	KDZ4	07/26/23 11:39
4-Chloroaniline	7.86	Poor chromatography	KDZ4	07/26/23 11:40
Caprolactam	8.15	Poor chromatography	KDZ4	07/26/23 11:41

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Instrument ID: A4AG2 Analysis Batch Number: 581832

Lab Sample ID: STD8 240-581832/9 IC Client Sample ID:

Date Analyzed: 07/26/23 11:24 Lab File ID: 9.D GC Column: RXI-5SILMS/II ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzoic acid	7.55	Poor chromatography	KDZ4	07/26/23 11:48
4-Chloroaniline	7.85	Poor chromatography	KDZ4	07/26/23 11:49
Caprolactam	8.15	Poor chromatography	KDZ4	07/26/23 11:49
Pyridine		Invalid Compound ID	KDZ4	07/26/23 12:17

Lab Sample ID: STD9 240-581832/10 IC Client Sample ID:

Date Analyzed: 07/26/23 11:48 Lab File ID: 10.D GC Column: RXI-5SILMS/II ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
3 & 4 Methylphenol	7.02	Invalid Compound ID	KDZ4	07/26/23 12:23
Benzoic acid	7.55	Poor chromatography	KDZ4	07/26/23 12:13
4-Chloroaniline	7.85	Poor chromatography	KDZ4	07/26/23 12:13
Caprolactam	8.16	Poor chromatography	KDZ4	07/26/23 12:13
1,4-Dioxane		Invalid Compound ID	KDZ4	07/26/23 12:15
2-Fluorophenol (Surr)		Invalid Compound ID	KDZ4	07/26/23 12:14
3-Nitroaniline		Invalid Compound ID	KDZ4	07/26/23 12:28
Benzaldehyde		Invalid Compound ID	KDZ4	07/26/23 12:22
n-Decane		Invalid Compound ID	KDZ4	07/26/23 12:23
Pyridine		Invalid Compound ID	KDZ4	07/26/23 12:16

Lab Sample ID: ICV 240-581832/11 Client Sample ID:

Date Analyzed: 07/26/23 12:11 Lab File ID: 11.D GC Column: RXI-5SILMS/II ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	4.29	Poor chromatography	KDZ4	07/26/23 12:38
Benzoic acid	7.53	Poor chromatography	KDZ4	07/26/23 12:39

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Instrument ID: A4AG2 Analysis Batch Number: 581979

Lab Sample ID: STD5 240-581979/3 IC Client Sample ID:

Date Analyzed: 07/27/23 09:28 Lab File ID: CCV L2LVI.D GC Column: RXI-5SILMS/II ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Safrole, Total	8.32	Poor chromatography	KDZ4	07/27/23 10:49
Isosafrole Peak 1	8.56	Poor chromatography	KDZ4	07/27/23 10:49
Isosafrole Peak 2	8.75	Poor chromatography	KDZ4	07/27/23 10:46
2-Naphthylamine	9.62	Poor chromatography	KDZ4	07/27/23 10:46
Diallate Peak 1	10.08	Poor chromatography	KDZ4	07/27/23 10:49
Aramite Peak 1	12.01	Poor chromatography	KDZ4	07/27/23 10:48
Aramite Peak 2	12.09	Poor chromatography	KDZ4	07/27/23 10:48

Lab Sample ID: STD3 240-581979/5 IC Client Sample ID:

Date Analyzed: 07/27/23 10:14 Lab File ID: 5.D GC Column: RXI-5SILMS/II ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
alpha,alpha-Dimethyl phenethylamine	7.69	Poor chromatography	KDZ4	07/27/23 10:53
p-Phenylene diamine	8.17	Poor chromatography	KDZ4	07/27/23 10:54

Lab Sample ID: STD2 240-581979/6 IC Client Sample ID:

Date Analyzed: 07/27/23 10:38 Lab File ID: 6.D GC Column: RXI-5SILMS/II ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3,5-Trinitrobenzene		Invalid Compound ID	KDZ4	07/27/23 11:13
3,3'-Dimethylbenzidine		Invalid Compound ID	KDZ4	07/27/23 11:13
4-Nitroquinoline-1-oxide		Invalid Compound ID	KDZ4	07/27/23 11:13
Dinoseb		Invalid Compound ID	KDZ4	07/27/23 11:13

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Instrument ID: A4AG2 Analysis Batch Number: 581979

Lab Sample ID: STD7 240-581979/8 IC Client Sample ID:

Date Analyzed: 07/27/23 11:24 Lab File ID: 8.D GC Column: RXI-5SILMS/II ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
alpha,alpha-Dimethyl phenethylamine	7.64	Poor chromatography	KDZ4	07/27/23 11:52
Famphur		Invalid Compound ID	KDZ4	07/27/23 11:53

Lab Sample ID: STD8 240-581979/9 IC Client Sample ID:

Date Analyzed: 07/27/23 11:48 Lab File ID: 9.D GC Column: RXI-5SILMS/II ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
alpha,alpha-Dimethyl phenethylamine	7.63	Poor chromatography	KDZ4	07/27/23 12:14
Famphur		Invalid Compound ID	KDZ4	07/27/23 12:14

Lab Sample ID: STD9 240-581979/10 IC Client Sample ID:

Date Analyzed: 07/27/23 12:11 Lab File ID: 10.D GC Column: RXI-5SILMS/II ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
alpha,alpha-Dimethyl phenethylamine		Poor chromatography	KDZ4	07/27/23 12:49
Famphur		Invalid Compound ID	KDZ4	07/27/23 12:49

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Instrument ID: A4AG2 Analysis Batch Number: 583312

Lab Sample ID: CCV 240-583312/3 Client Sample ID:

Date Analyzed: 08/09/23 08:13 Lab File ID: CCV L2LVI.D GC Column: RXI-5SILMS/II ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isosafrole Peak 2	8.71	Peak assignment corrected	KDZ4	08/09/23 08:37
Aramite Peak 1	11.97	Peak assignment corrected	KDZ4	08/09/23 08:38

Lab Sample ID: MB 240-582476/10-A Client Sample ID:

Date Analyzed: 08/09/23 09:49 Lab File ID: 7.D GC Column: RXI-5SILMS/II ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetophenone		Invalid Compound ID	KDZ4	08/09/23 10:20
Di-n-butyl phthalate		Invalid Compound ID	KDZ4	08/09/23 10:22
Disulfoton		Invalid Compound ID	KDZ4	08/09/23 10:22

Lab Sample ID: LCS 240-582476/12-A Client Sample ID:

Date Analyzed: 08/09/23 10:42 Lab File ID: 9.D GC Column: RXI-5SILMS/II ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
p-Phenylene diamine		Poor chromatography	KDZ4	08/09/23 11:56

Lab Sample ID: 240-189273-1 Client Sample ID: 16C1

Date Analyzed: 08/09/23 11:52 Lab File ID: 12.D GC Column: RXI-5SILMS/II ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Aramite Peak 1		Invalid Compound ID	KDZ4	08/10/23 11:57
Aramite Peak 2		Invalid Compound ID	KDZ4	08/10/23 11:57
Disulfoton		Invalid Compound ID	KDZ4	08/10/23 11:57
N-Nitro-o-toluidine		Invalid Compound ID	KDZ4	08/10/23 11:57

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Instrument ID: A4AG2 Analysis Batch Number: 583312

Lab Sample ID: 240-189273-2 Client Sample ID: 16MW8

Date Analyzed: 08/09/23 12:15 Lab File ID: 13.D GC Column: RXI-5SILMS/II ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Aramite Peak 1		Invalid Compound ID	KDZ4	08/10/23 11:58
Aramite Peak 2		Invalid Compound ID	KDZ4	08/10/23 11:58
Methyl parathion		Invalid Compound ID	KDZ4	08/10/23 11:58
N-Nitrosodi-n-butylamine		Invalid Compound ID	KDZ4	08/10/23 11:57

Lab Sample ID: 240-189273-3 Client Sample ID: 16MW9

Date Analyzed: 08/09/23 12:38 Lab File ID: 14.D GC Column: RXI-5SILMS/II ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetophenone		Invalid Compound ID	KDZ4	08/10/23 12:14
Aramite Peak 1		Invalid Compound ID	KDZ4	08/10/23 12:14
Aramite Peak 2		Invalid Compound ID	KDZ4	08/10/23 12:14
Disulfoton		Invalid Compound ID	KDZ4	08/10/23 12:14
N-Nitro-o-toluidine		Invalid Compound ID	KDZ4	08/10/23 12:14

Lab Sample ID: 240-189273-5 Client Sample ID: 16WDUP

Date Analyzed: 08/09/23 13:01 Lab File ID: 15.D GC Column: RXI-5SILMS/II ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4-Chloroaniline		Invalid Compound ID	KDZ4	08/10/23 12:15
4-Nitroaniline		Invalid Compound ID	KDZ4	08/10/23 12:15
Acetophenone		Invalid Compound ID	KDZ4	08/10/23 12:15
Aramite Peak 1		Invalid Compound ID	KDZ4	08/10/23 12:15
Aramite Peak 2		Invalid Compound ID	KDZ4	08/10/23 12:15
Disulfoton		Invalid Compound ID	KDZ4	08/10/23 12:15
Methyl parathion		Invalid Compound ID	KDZ4	08/10/23 12:15
N-Nitrosodiphenylamine		Invalid Compound ID	KDZ4	08/10/23 12:15

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Instrument ID: A4AG2 Analysis Batch Number: 583312

Lab Sample ID: 240-189273-6 Client Sample ID: 16WC1B

Date Analyzed: 08/09/23 13:25 Lab File ID: 16.D GC Column: RXI-5SILMS/II ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetophenone		Invalid Compound ID	KDZ4	08/10/23 12:16
Aramite Peak 1		Invalid Compound ID	KDZ4	08/10/23 12:16
Aramite Peak 2		Invalid Compound ID	KDZ4	08/10/23 12:16
Methyl parathion		Invalid Compound ID	KDZ4	08/10/23 12:16

Lab Sample ID: 240-189273-4 Client Sample ID: 16WC1A

Date Analyzed: 08/09/23 13:48 Lab File ID: 17.D GC Column: RXI-5SILMS/II ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4-Chloroaniline		Invalid Compound ID	KDZ4	08/10/23 12:17
Acetophenone		Invalid Compound ID	KDZ4	08/10/23 12:17
Aramite Peak 1		Invalid Compound ID	KDZ4	08/10/23 12:17
Aramite Peak 2		Invalid Compound ID	KDZ4	08/10/23 12:17
Di-n-butyl phthalate		Invalid Compound ID	KDZ4	08/10/23 12:17
Disulfoton		Invalid Compound ID	KDZ4	08/10/23 12:17
Ethyl Parathion		Invalid Compound ID	KDZ4	08/10/23 12:17
Methyl parathion		Invalid Compound ID	KDZ4	08/10/23 12:17
N-Nitrosodiphenylamine		Invalid Compound ID	KDZ4	08/10/23 12:17

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Instrument ID: A4AG2 Analysis Batch Number: 583312

Lab Sample ID: 240-189273-4 MS Client Sample ID: 16WC1A MS

Date Analyzed: 08/09/23 14:11 Lab File ID: 18.D GC Column: RXI-5SILMS/II ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Naphthylamine		Invalid Compound ID	KDZ4	08/10/23 12:18
4-Aminobiphenyl		Invalid Compound ID	KDZ4	08/10/23 12:18
Aramite Peak 1		Invalid Compound ID	KDZ4	08/10/23 12:19
Aramite Peak 2		Invalid Compound ID	KDZ4	08/10/23 12:19
Disulfoton		Invalid Compound ID	KDZ4	08/10/23 12:18
Methyl parathion		Invalid Compound ID	KDZ4	08/10/23 12:18
N-Nitrosodi-n-butylamine		Invalid Compound ID	KDZ4	08/10/23 12:18
N-Nitrosomethylethylamine		Invalid Compound ID	KDZ4	08/10/23 12:20

Lab Sample ID: 240-189273-4 MSD Client Sample ID: 16WC1A MSD

Date Analyzed: 08/09/23 14:34 Lab File ID: 19.D GC Column: RXI-5SILMS/II ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3,5-Trinitrobenzene		Invalid Compound ID	KDZ4	08/10/23 12:20
2-Naphthylamine		Invalid Compound ID	KDZ4	08/10/23 12:20
3,3'-Dimethylbenzidine		Invalid Compound ID	KDZ4	08/10/23 12:21
4-Aminobiphenyl		Invalid Compound ID	KDZ4	08/10/23 12:20
Aramite Peak 1		Invalid Compound ID	KDZ4	08/10/23 12:20
Aramite Peak 2		Invalid Compound ID	KDZ4	08/10/23 12:21
Disulfoton		Invalid Compound ID	KDZ4	08/10/23 12:20
Famphur		Invalid Compound ID	KDZ4	08/10/23 12:21
Methyl parathion		Invalid Compound ID	KDZ4	08/10/23 12:20
N-Nitro-o-toluidine		Invalid Compound ID	KDZ4	08/10/23 12:20
N-Nitrosodi-n-butylamine		Invalid Compound ID	KDZ4	08/10/23 12:20

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
exBENZALDEHYD_00086	01/03/24	07/06/23	MEOH, Lot 22C2862010	500 mL	exLIST1_S11_00022	10 mL	Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
.exLIST1_S11_00022	07/31/24	Restek, Lot A0193487			(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
exBNASPIKE_00127	12/23/23	06/23/23	ACETONE, Lot 0000287616	500 mL	exLIST1_S1_00031	10 mL	1,1'-Biphenyl	20 ug/mL
							1,2,4,5-Tetrachlorobenzene	20 ug/mL
							1,2,4-Trichlorobenzene	20 ug/mL
							1,2-Dichlorobenzene	20 ug/mL
							1,2-Diphenylhydrazine	20 ug/mL
							1,3-Dichlorobenzene	20 ug/mL
							1,3-Dinitrobenzene	20 ug/mL
							1,4-Dichlorobenzene	20 ug/mL
							1,4-Dioxane	20 ug/mL
							1-Methylnaphthalene	20 ug/mL
							2,2'-oxybis[1-chloropropane]	20 ug/mL
							2,3,4,6-Tetrachlorophenol	20 ug/mL
							2,4,5-Trichlorophenol	20 ug/mL
							2,4,6-Trichlorophenol	20 ug/mL
							2,4-Dichlorophenol	20 ug/mL
							2,4-Dimethylphenol	20 ug/mL
							2,4-Dinitrophenol	40 ug/mL
							2,4-Dinitrotoluene	20 ug/mL
							2,6-Dichlorophenol	20 ug/mL
							2,6-Dinitrotoluene	20 ug/mL
							2-Chloronaphthalene	20 ug/mL
							2-Chlorophenol	20 ug/mL
							2-Methylnaphthalene	20 ug/mL
							2-Methylphenol	20 ug/mL
							2-Nitroaniline	20 ug/mL
							2-Nitrophenol	20 ug/mL
							3 & 4 Methylphenol	20 ug/mL
							3-Methylphenol	10 ug/mL
							3-Nitroaniline	20 ug/mL
							4,6-Dinitro-2-methylphenol	40 ug/mL
							4-Bromophenyl phenyl ether	20 ug/mL
							4-Chloro-3-methylphenol	20 ug/mL
							4-Chloroaniline	20 ug/mL
							4-Chlorophenyl phenyl ether	20 ug/mL
							4-Methylphenol	10 ug/mL
							4-Nitroaniline	20 ug/mL
							4-Nitrophenol	40 ug/mL
							Acenaphthene	20 ug/mL
							Acenaphthylene	20 ug/mL
							Acetophenone	20 ug/mL
							Aniline	20 ug/mL

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Anthracene	20 ug/mL
							Azobenzene	20 ug/mL
							Benzo[a]anthracene	20 ug/mL
							Benzo[a]pyrene	20 ug/mL
							Benzo[b]fluoranthene	20 ug/mL
							Benzo[g,h,i]perylene	20 ug/mL
							Benzo[k]fluoranthene	20 ug/mL
							Benzyl alcohol	20 ug/mL
							Bis(2-chloroethoxy)methane	20 ug/mL
							Bis(2-chloroethyl)ether	20 ug/mL
							Bis(2-ethylhexyl) phthalate	20 ug/mL
							Butyl benzyl phthalate	20 ug/mL
							Carbazole	20 ug/mL
							Chrysene	20 ug/mL
							Di-n-butyl phthalate	20 ug/mL
							Di-n-octyl phthalate	20 ug/mL
							Dibenz(a,h)anthracene	20 ug/mL
							Dibenzofuran	20 ug/mL
							Diethyl phthalate	20 ug/mL
							Dimethyl phthalate	20 ug/mL
							Diphenylamine	17.1 ug/mL
							Fluoranthene	20 ug/mL
							Fluorene	20 ug/mL
							Hexachlorobenzene	20 ug/mL
							Hexachlorobutadiene	20 ug/mL
							Hexachlorocyclopentadiene	20 ug/mL
							Hexachloroethane	20 ug/mL
							Hexadecane	20 ug/mL
							Indeno[1,2,3-cd]pyrene	20 ug/mL
							Isophorone	20 ug/mL
							n-Decane	20 ug/mL
							N-Nitrosodi-n-propylamine	20 ug/mL
							N-Nitrosodimethylamine	20 ug/mL
							N-Nitrosodiphenylamine	20 ug/mL
							n-Octadecane	20 ug/mL
							Naphthalene	20 ug/mL
							Nitrobenzene	20 ug/mL
							Pentachlorophenol	40 ug/mL
							Phenanthrene	20 ug/mL
							Phenol	20 ug/mL
							Pyrene	20 ug/mL
							Pyridine	40 ug/mL
					EXLIST1_S10_00022	10 mL	Benzoic acid	40 ug/mL
							Indene	40 ug/mL
					exLIST1_S9_00027	10 mL	3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
.exLIST1_S1_00031	04/30/24		Restek, Lot A0190414		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

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	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 & 4 Methylphenol	1000 ug/mL
							3-Methylphenol	500 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	500 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
							Azobenzene	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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

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
							Butyl benzyl phthalate	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
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	855 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	1000 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
.EXLIST1_S10_00022	07/31/23		Restek, Lot A0180656		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
.exLIST1_S9_00027	07/31/23		Restek, Lot A0181121		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
exBNASURR W_00112	01/03/24	07/03/23	MEOH, Lot 22C2862010	2000 mL	exLIST1_SURR_00011	8 mL	2,4,6-Tribromophenol (Surr)	20 ug/mL
							2-Fluorobiphenyl (Surr)	20 ug/mL
							2-Fluorophenol (Surr)	20 ug/mL
							Nitrobenzene-d5 (Surr)	20 ug/mL
							Phenol-d5 (Surr)	20 ug/mL
							Terphenyl-d14 (Surr)	20 ug/mL
.exLIST1_SURR_00011	04/30/27		Restek, Lot A0184539		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
EXLIST2spike_00037	10/25/23	04/25/23	MEOH, Lot 22CC2862010	50 mL	exLIST2_S1_00012	1 mL	1,3,5-Trinitrobenzene	20 ug/mL
							1,4-Dinitrobenzene	20 ug/mL
							1-Naphthylamine	20 ug/mL
							2-Acetylaminofluorene	20 ug/mL
							2-Naphthylamine	20 ug/mL
							2-Picoline	20 ug/mL
							3,3'-Dimethylbenzidine	20 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	20 ug/mL
							4-Aminobiphenyl	20 ug/mL
							4-Nitroquinoline-1-oxide	20 ug/mL
							Acrylamide	20 ug/mL
							alpha,alpha-Dimethyl phenethylamine	20 ug/mL
							Dibenz[a,h]acridine	20 ug/mL
							N-Nitro-o-toluidine	20 ug/mL
							N-Nitrosodi-n-butylamine	20 ug/mL
							N-Nitrosodiethylamine	20 ug/mL
							N-Nitrosomethylethylamine	20 ug/mL
							N-Nitrosomorpholine	20 ug/mL
							N-Nitrosopiperidine	20 ug/mL
							N-Nitrosopyrrolidine	20 ug/mL
							o-Toluidine	20 ug/mL
							p-Dimethylamino azobenzene	20 ug/mL
							p-Phenylene diamine	20 ug/mL
							Pentachloronitrobenzene	20 ug/mL
							Phenacetin	20 ug/mL
							Pronamide	20 ug/mL
							Quinoline	20 ug/mL
					exLIST2_S2_00014	1 mL	1,4-Naphthoquinone	20 ug/mL
							1-Chloronaphthalene	20 ug/mL
							2,3,5,6-Tetrachlorophenol	20 ug/mL
							7,12-Dimethylbenz(a)anthracene	20 ug/mL
							Chlorobenzilate	20 ug/mL
							Dinoseb	20 ug/mL
							Ethyl methanesulfonate	20 ug/mL
							Hexachloropropene	20 ug/mL
							Isodrin	20 ug/mL
							Isosafrole	20 ug/mL
							Isosafrole Peak 1	3.2 ug/mL
							Isosafrole Peak 2	16.8 ug/mL
							Methyl methanesulfonate	20 ug/mL
							Pentachlorobenzene	20 ug/mL
							Pentachloroethane	20 ug/mL
					exLIST2_S3_00014	1 mL	3-Methylcholanthrene	40 ug/mL
							6-Methylchrysene	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					exLIST2_S4_00008	1 mL	Aramite Peak 1	9.2 ug/mL
							Aramite Peak 2	9.8 ug/mL
							Aramite, Total	20 ug/mL
							Diallate	20 ug/mL
							Diallate Peak 1	17 ug/mL
							Diallate Peak 2	3 ug/mL
							Dimethoate	20 ug/mL
							Disulfoton	20 ug/mL
							Ethyl Parathion	20 ug/mL
							Famphur	20 ug/mL
							Methyl parathion	20 ug/mL
							o,o',o''-Triethylphosphorothioate	20 ug/mL
							Phorate	20 ug/mL
							Safrole, Total	20 ug/mL
							Sulfotepp	20 ug/mL
							Thionazin	20 ug/mL
					exLIST2_S5_00012	1 mL	Methapyrilene	40 ug/mL
.exLIST2_S1_00012	08/31/23		Restek, Lot A0188198		(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
							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
							Acrylamide	1000 ug/mL
							alpha,alpha-Dimethyl phenethylamine	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
							o-Toluidine	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
.exLIST2_S2_00014	01/31/24		Restek, Lot A0193498		(Purchased Reagent)		1,4-Naphthoquinone	1000 ug/mL

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1-Chloronaphthalene	1000 ug/mL
							2,3,5,6-Tetrachlorophenol	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	1000 ug/mL
							Isosafrole Peak 1	160 ug/mL
							Isosafrole Peak 2	840 ug/mL
							Methyl methanesulfonate	1000 ug/mL
							Pentachlorobenzene	1000 ug/mL
							Pentachloroethane	1000 ug/mL
.exLIST2_S3_00014	04/30/23		Restek, Lot A0184674		(Purchased Reagent)		3-Methylcholanthrene	2000 ug/mL
							6-Methylchrysene	2000 ug/mL
.exLIST2_S4_00008	01/31/24		Restek, Lot A0180903		(Purchased Reagent)		Aramite Peak 1	460 ug/mL
							Aramite Peak 2	490 ug/mL
							Aramite, Total	1000 ug/mL
							Diallate	1000 ug/mL
							Diallate Peak 1	850 ug/mL
							Diallate Peak 2	150 ug/mL
							Dimethoate	1000 ug/mL
							Disulfoton	1000 ug/mL
							Ethyl Parathion	1000 ug/mL
							Famphur	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
.exLIST2_S5_00012	09/30/23		Restek, Lot A0176243		(Purchased Reagent)		Methapyrilene	2000 ug/mL
SMDFTPPW_00025							4,4'-DDD	
							4,4'-DDE	
							Aramite, Total	
							Diallate	
							Isosafrole	
							Methyl Phenols,Total	
							Tentatively Identified Compound	
					SMDFTPPR_00019	1 mL	4,4'-DDT	25 ug/mL
							Benzidine	25 ug/mL
							DFTPP	25 ug/mL
							Pentachlorophenol	25 ug/mL
.SMDFTPPR_00019	07/31/25		Restek, Lot A0187536		(Purchased Reagent)		4,4'-DDT	1000 ug/mL
							Benzidine	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							DFTPP	1000 ug/mL
							Pentachlorophenol	1000 ug/mL
SMIS80PPMW_00027	10/31/23	10/06/22	MECL2, Lot 22F0162005	40 mL	SMIS R_00017	1.6 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
.SMIS R_00017	07/31/27		Restek, Lot A0187296		(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
SMLIST1 L1+ W_00015	11/22/23	06/08/23	MECL2, Lot 6178522	2 mL	SMIS80PPMW_00028	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1PAH+ST_00015	2 uL	1,1'-Biphenyl	0.1 ug/mL
							1-Methylnaphthalene	0.1 ug/mL
							2-Chloronaphthalene	0.1 ug/mL
							2-Methylnaphthalene	0.1 ug/mL
							Acenaphthene	0.1 ug/mL
							Acenaphthylene	0.1 ug/mL
							Anthracene	0.1 ug/mL
							Benzo[a]anthracene	0.1 ug/mL
							Benzo[a]pyrene	0.1 ug/mL
							Benzo[b]fluoranthene	0.1 ug/mL
							Benzo[g,h,i]perylene	0.1 ug/mL
							Benzo[k]fluoranthene	0.1 ug/mL
							Chrysene	0.1 ug/mL
							Dibenz(a,h)anthracene	0.1 ug/mL
							Dibenzofuran	0.1 ug/mL
							Fluoranthene	0.1 ug/mL
							Fluorene	0.1 ug/mL
							Hexachlorobenzene	0.1 ug/mL
							Indeno[1,2,3-cd]pyrene	0.1 ug/mL
							Naphthalene	0.1 ug/mL
							Phenanthrene	0.1 ug/mL
							Pyrene	0.1 ug/mL
							Pyridine	0.2 ug/mL
							Atrazine	0.2 ug/mL
							Benzaldehyde	0.2 ug/mL
							Caprolactam	0.2 ug/mL
							2,4,6-Tribromophenol (Surr)	0.1 ug/mL

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Fluorobiphenyl (Surr)	0.1 ug/mL
							2-Fluorophenol (Surr)	0.1 ug/mL
							Nitrobenzene-d5 (Surr)	0.1 ug/mL
							Phenol-d5 (Surr)	0.1 ug/mL
							Terphenyl-d14 (Surr)	0.1 ug/mL
.SMIS80PPMW_00028	11/22/23	05/22/23	MECL2, Lot 6178522	40 mL	SMIS R_00018	1.6 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00018	01/31/28	Restek, Lot A0193798			(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
.SMLIST1PAH+ST_00015	11/22/23	06/08/23	MECL2, Lot 6178522	10 mL	SMLIST1 PAH_00014	1 mL	1,1'-Biphenyl	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Anthracene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Chrysene	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Naphthalene	100 ug/mL
							Phenanthrene	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	200 ug/mL
					SMLIST1 S11_00013	1 mL	Atrazine	200 ug/mL
							Benzaldehyde	200 ug/mL
							Caprolactam	200 ug/mL
					SMLIST1 SURR_00018	200 uL	2,4,6-Tribromophenol (Surr)	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Terphenyl-d14 (Surr)	100 ug/mL
..SMLIST1 PAH_00014	09/30/24		Restek, Lot A0195772		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2-Chloronaphthalene	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
							Hexachlorobenzene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Naphthalene	1000 ug/mL
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
..SMLIST1 S11_00013	07/31/24		Restek, Lot A0193487		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..SMLIST1 SURR_00018	04/30/27		Restek, Lot A0184539		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMLIST1 L2 W_00021	11/22/23	06/08/23	MECL2, Lot 6178522	2 mL	SMIS80PPMW_00028	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1 STOCK_00021	10 uL	1,1'-Biphenyl	0.5 ug/mL
							1,2,4,5-Tetrachlorobenzene	0.5 ug/mL
							1,2,4-Trichlorobenzene	0.5 ug/mL
							1,2-Dichlorobenzene	0.5 ug/mL
							1,3-Dichlorobenzene	0.5 ug/mL
							1,3-Dinitrobenzene	0.5 ug/mL
							1,4-Dichlorobenzene	0.5 ug/mL
							1,4-Dioxane	0.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1-Methylnaphthalene	0.5 ug/mL
							2,2'-oxybis[1-chloropropane]	0.5 ug/mL
							2,3,4,6-Tetrachlorophenol	0.5 ug/mL
							2,4,5-Trichlorophenol	0.5 ug/mL
							2,4,6-Trichlorophenol	0.5 ug/mL
							2,4-Dichlorophenol	0.5 ug/mL
							2,4-Dimethylphenol	0.5 ug/mL
							2,4-Dinitrophenol	1 ug/mL
							2,4-Dinitrotoluene	0.5 ug/mL
							2,6-Dichlorophenol	0.5 ug/mL
							2,6-Dinitrotoluene	0.5 ug/mL
							2-Chloronaphthalene	0.5 ug/mL
							2-Chlorophenol	0.5 ug/mL
							2-Methylnaphthalene	0.5 ug/mL
							2-Methylphenol	0.5 ug/mL
							2-Nitroaniline	0.5 ug/mL
							2-Nitrophenol	0.5 ug/mL
							3 & 4 Methylphenol	0.5 ug/mL
							3-Nitroaniline	0.5 ug/mL
							4,6-Dinitro-2-methylphenol	1 ug/mL
							4-Bromophenyl phenyl ether	0.5 ug/mL
							4-Chloro-3-methylphenol	0.5 ug/mL
							4-Chloroaniline	0.5 ug/mL
							4-Chlorophenyl phenyl ether	0.5 ug/mL
							4-Nitroaniline	0.5 ug/mL
							4-Nitrophenol	1 ug/mL
							Acenaphthene	0.5 ug/mL
							Acenaphthylene	0.5 ug/mL
							Acetophenone	0.5 ug/mL
							Aniline	0.5 ug/mL
							Anthracene	0.5 ug/mL
							Azobenzene	0.5 ug/mL
							Benzo[a]anthracene	0.5 ug/mL
							Benzo[a]pyrene	0.5 ug/mL
							Benzo[b]fluoranthene	0.5 ug/mL
							Benzo[g,h,i]perylene	0.5 ug/mL
							Benzo[k]fluoranthene	0.5 ug/mL
							Benzyl alcohol	0.5 ug/mL
							Bis(2-chloroethoxy)methane	0.5 ug/mL
							Bis(2-chloroethyl)ether	0.5 ug/mL
							Bis(2-ethylhexyl) phthalate	0.5 ug/mL
							Butyl benzyl phthalate	0.5 ug/mL
							Carbazole	0.5 ug/mL
							Chrysene	0.5 ug/mL
							Di-n-butyl phthalate	0.5 ug/mL
							Di-n-octyl phthalate	0.5 ug/mL
							Dibenz(a,h)anthracene	0.5 ug/mL
							Dibenzofuran	0.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Diethyl phthalate	0.5 ug/mL
							Dimethyl phthalate	0.5 ug/mL
							Diphenylamine	0.425 ug/mL
							Fluoranthene	0.5 ug/mL
							Fluorene	0.5 ug/mL
							Hexachlorobenzene	0.5 ug/mL
							Hexachlorobutadiene	0.5 ug/mL
							Hexachlorocyclopentadiene	0.5 ug/mL
							Hexachloroethane	0.5 ug/mL
							Indeno[1,2,3-cd]pyrene	0.5 ug/mL
							Isophorone	0.5 ug/mL
							n-Decane	0.5 ug/mL
							N-Nitrosodi-n-propylamine	0.5 ug/mL
							N-Nitrosodimethylamine	0.5 ug/mL
							N-Nitrosodiphenylamine	0.5 ug/mL
							n-Octadecane	0.5 ug/mL
							Naphthalene	0.5 ug/mL
							Nitrobenzene	0.5 ug/mL
							Pentachlorophenol	1 ug/mL
							Phenanthrene	0.5 ug/mL
							Phenol	0.5 ug/mL
							Pyrene	0.5 ug/mL
							Pyridine	1 ug/mL
							Benzoic acid	1 ug/mL
							Indene	1 ug/mL
							Atrazine	1 ug/mL
							Benzaldehyde	1 ug/mL
							Caprolactam	1 ug/mL
							3,3'-Dichlorobenzidine	1 ug/mL
							Benzidine	1 ug/mL
							2,4,6-Tribromophenol (Surr)	0.5 ug/mL
							2-Fluorobiphenyl (Surr)	0.5 ug/mL
							2-Fluorophenol (Surr)	0.5 ug/mL
							Nitrobenzene-d5 (Surr)	0.5 ug/mL
							Phenol-d5 (Surr)	0.5 ug/mL
							Terphenyl-d14 (Surr)	0.5 ug/mL
.SMIS80PPMW_00028	11/22/23	05/22/23	MECL2, Lot 6178522	40 mL	SMIS R_00018	1.6 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00018	01/31/28	Restek, Lot A0193798			(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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.SMLIST1 STOCK_00021	12/08/23	06/08/23	MECL2, Lot 6178522	10 mL	SMLIST1 S1_00015	1 mL	1,1'-Biphenyl	100 ug/mL
							1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,2'-oxybis[1-chloropropane]	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dichlorophenol	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Diphenylamine	85 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							n-Decane	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							N-Nitrosodiphenylamine	100 ug/mL
							n-Octadecane	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	200 ug/mL
					SMLIST1 S10_00011	1 mL	Benzoic acid	200 ug/mL
							Indene	200 ug/mL
					SMLIST1 S11_00013	1 mL	Atrazine	200 ug/mL
							Benzaldehyde	200 ug/mL
							Caprolactam	200 ug/mL
					SMLIST1 S9_00011	1 mL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
					SMLIST1 SURR_00018	200 uL	2,4,6-Tribromophenol (Surr)	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
..SMLIST1 S1_00015	09/30/24		Restek, Lot A0195772		(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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

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
							1,3-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 & 4 Methylphenol	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-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
							Azobenzene	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
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

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
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	850 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-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 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
..SMLIST1 S10_00011	07/31/24		Restek, Lot A0193718		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SMLIST1 S11_00013	07/31/24		Restek, Lot A0193487		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..SMLIST1 S9_00011	08/31/24		Restek, Lot A0194453		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SMLIST1 SURR_00018	04/30/27		Restek, Lot A0184539		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMLIST1 L3 W_00021	11/22/23	06/08/23	MECL2, Lot 6178522	2 mL	SMIS80PPMW_00028	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1 STOCK_00021	20 uL	1,1'-Biphenyl	1 ug/mL

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4,5-Tetrachlorobenzene	1 ug/mL
							1,2,4-Trichlorobenzene	1 ug/mL
							1,2-Dichlorobenzene	1 ug/mL
							1,3-Dichlorobenzene	1 ug/mL
							1,3-Dinitrobenzene	1 ug/mL
							1,4-Dichlorobenzene	1 ug/mL
							1,4-Dioxane	1 ug/mL
							1-Methylnaphthalene	1 ug/mL
							2,2'-oxybis[1-chloropropane]	1 ug/mL
							2,3,4,6-Tetrachlorophenol	1 ug/mL
							2,4,5-Trichlorophenol	1 ug/mL
							2,4,6-Trichlorophenol	1 ug/mL
							2,4-Dichlorophenol	1 ug/mL
							2,4-Dimethylphenol	1 ug/mL
							2,4-Dinitrophenol	2 ug/mL
							2,4-Dinitrotoluene	1 ug/mL
							2,6-Dichlorophenol	1 ug/mL
							2,6-Dinitrotoluene	1 ug/mL
							2-Chloronaphthalene	1 ug/mL
							2-Chlorophenol	1 ug/mL
							2-Methylnaphthalene	1 ug/mL
							2-Methylphenol	1 ug/mL
							2-Nitroaniline	1 ug/mL
							2-Nitrophenol	1 ug/mL
							3 & 4 Methylphenol	1 ug/mL
							3-Nitroaniline	1 ug/mL
							4,6-Dinitro-2-methylphenol	2 ug/mL
							4-Bromophenyl phenyl ether	1 ug/mL
							4-Chloro-3-methylphenol	1 ug/mL
							4-Chloroaniline	1 ug/mL
							4-Chlorophenyl phenyl ether	1 ug/mL
							4-Nitroaniline	1 ug/mL
							4-Nitrophenol	2 ug/mL
							Acenaphthene	1 ug/mL
							Acenaphthylene	1 ug/mL
							Acetophenone	1 ug/mL
							Aniline	1 ug/mL
							Anthracene	1 ug/mL
							Azobenzene	1 ug/mL
							Benzo[a]anthracene	1 ug/mL
							Benzo[a]pyrene	1 ug/mL
							Benzo[b]fluoranthene	1 ug/mL
							Benzo[g,h,i]perylene	1 ug/mL
							Benzo[k]fluoranthene	1 ug/mL
							Benzyl alcohol	1 ug/mL
							Bis(2-chloroethoxy)methane	1 ug/mL
							Bis(2-chloroethyl)ether	1 ug/mL
							Bis(2-ethylhexyl) phthalate	1 ug/mL

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Butyl benzyl phthalate	1 ug/mL
							Carbazole	1 ug/mL
							Chrysene	1 ug/mL
							Di-n-butyl phthalate	1 ug/mL
							Di-n-octyl phthalate	1 ug/mL
							Dibenz(a,h)anthracene	1 ug/mL
							Dibenzofuran	1 ug/mL
							Diethyl phthalate	1 ug/mL
							Dimethyl phthalate	1 ug/mL
							Diphenylamine	0.85 ug/mL
							Fluoranthene	1 ug/mL
							Fluorene	1 ug/mL
							Hexachlorobenzene	1 ug/mL
							Hexachlorobutadiene	1 ug/mL
							Hexachlorocyclopentadiene	1 ug/mL
							Hexachloroethane	1 ug/mL
							Indeno[1,2,3-cd]pyrene	1 ug/mL
							Isophorone	1 ug/mL
							n-Decane	1 ug/mL
							N-Nitrosodi-n-propylamine	1 ug/mL
							N-Nitrosodimethylamine	1 ug/mL
							N-Nitrosodiphenylamine	1 ug/mL
							n-Octadecane	1 ug/mL
							Naphthalene	1 ug/mL
							Nitrobenzene	1 ug/mL
							Pentachlorophenol	2 ug/mL
							Phenanthrene	1 ug/mL
							Phenol	1 ug/mL
							Pyrene	1 ug/mL
							Pyridine	2 ug/mL
							Benzoic acid	2 ug/mL
							Indene	2 ug/mL
							Atrazine	2 ug/mL
							Benzaldehyde	2 ug/mL
							Caprolactam	2 ug/mL
							3,3'-Dichlorobenzidine	2 ug/mL
							Benzidine	2 ug/mL
							2,4,6-Tribromophenol (Surr)	1 ug/mL
							2-Fluorobiphenyl (Surr)	1 ug/mL
							2-Fluorophenol (Surr)	1 ug/mL
							Nitrobenzene-d5 (Surr)	1 ug/mL
							Phenol-d5 (Surr)	1 ug/mL
							Terphenyl-d14 (Surr)	1 ug/mL
.SMIS80PPMW_00028	11/22/23	05/22/23	MECL2, Lot 6178522	40 mL	SMIS R_00018	1.6 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenanthrene-d10	80 ug/mL
..SMIS R_00018	01/31/28		Restek, Lot A0193798		(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
.SMLIST1 STOCK_00021	12/08/23	06/08/23	MECL2, Lot 6178522	10 mL	SMLIST1 S1_00015	1 mL	1,1'-Biphenyl	100 ug/mL
							1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,2'-oxybis[1-chloropropane]	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dichlorophenol	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Diphenylamine	85 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							n-Decane	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							N-Nitrosodiphenylamine	100 ug/mL
							n-Octadecane	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	200 ug/mL
					SMLIST1 S10_00011	1 mL	Benzoic acid	200 ug/mL
							Indene	200 ug/mL
					SMLIST1 S11_00013	1 mL	Atrazine	200 ug/mL
							Benzaldehyde	200 ug/mL
							Caprolactam	200 ug/mL
					SMLIST1 S9_00011	1 mL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
					SMLIST1 SURR_00018	200 uL	2,4,6-Tribromophenol (Surr)	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
..SMLIST1 S1_00015	09/30/24		Restek, Lot A0195772		(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
							1,3-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 & 4 Methylphenol	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-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
							Azobenzene	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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							Butyl benzyl phthalate	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
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	850 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-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 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
..SMLIST1 S10_00011	07/31/24		Restek, Lot A0193718		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SMLIST1 S11_00013	07/31/24		Restek, Lot A0193487		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..SMLIST1 S9_00011	08/31/24		Restek, Lot A0194453		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SMLIST1 SURR_00018	04/30/27		Restek, Lot A0184539		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
SMLIST1 L4 W_00021	11/22/23	06/08/23	MECL2, Lot 6178522	2 mL	SMIS80PPMW_00028	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1 STOCK_00021	40 uL	1,1'-Biphenyl	2 ug/mL
							1,2,4,5-Tetrachlorobenzene	2 ug/mL
							1,2,4-Trichlorobenzene	2 ug/mL
							1,2-Dichlorobenzene	2 ug/mL
							1,3-Dichlorobenzene	2 ug/mL
							1,3-Dinitrobenzene	2 ug/mL
							1,4-Dichlorobenzene	2 ug/mL
							1,4-Dioxane	2 ug/mL
							1-Methylnaphthalene	2 ug/mL
							2,2'-oxybis[1-chloropropane]	2 ug/mL
							2,3,4,6-Tetrachlorophenol	2 ug/mL
							2,4,5-Trichlorophenol	2 ug/mL
							2,4,6-Trichlorophenol	2 ug/mL
							2,4-Dichlorophenol	2 ug/mL
							2,4-Dimethylphenol	2 ug/mL
							2,4-Dinitrophenol	4 ug/mL
							2,4-Dinitrotoluene	2 ug/mL
							2,6-Dichlorophenol	2 ug/mL
							2,6-Dinitrotoluene	2 ug/mL
							2-Chloronaphthalene	2 ug/mL
							2-Chlorophenol	2 ug/mL
							2-Methylnaphthalene	2 ug/mL
							2-Methylphenol	2 ug/mL
							2-Nitroaniline	2 ug/mL
							2-Nitrophenol	2 ug/mL
							3 & 4 Methylphenol	2 ug/mL
							3-Nitroaniline	2 ug/mL
							4,6-Dinitro-2-methylphenol	4 ug/mL
							4-Bromophenyl phenyl ether	2 ug/mL
							4-Chloro-3-methylphenol	2 ug/mL
							4-Chloroaniline	2 ug/mL
							4-Chlorophenyl phenyl ether	2 ug/mL
							4-Nitroaniline	2 ug/mL
							4-Nitrophenol	4 ug/mL
							Acenaphthene	2 ug/mL
							Acenaphthylene	2 ug/mL
							Acetophenone	2 ug/mL
							Aniline	2 ug/mL
							Anthracene	2 ug/mL
							Azobenzene	2 ug/mL
							Benzo[a]anthracene	2 ug/mL
							Benzo[a]pyrene	2 ug/mL

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[b]fluoranthene	2 ug/mL
							Benzo[g,h,i]perylene	2 ug/mL
							Benzo[k]fluoranthene	2 ug/mL
							Benzyl alcohol	2 ug/mL
							Bis(2-chloroethoxy)methane	2 ug/mL
							Bis(2-chloroethyl)ether	2 ug/mL
							Bis(2-ethylhexyl) phthalate	2 ug/mL
							Butyl benzyl phthalate	2 ug/mL
							Carbazole	2 ug/mL
							Chrysene	2 ug/mL
							Di-n-butyl phthalate	2 ug/mL
							Di-n-octyl phthalate	2 ug/mL
							Dibenz(a,h)anthracene	2 ug/mL
							Dibenzofuran	2 ug/mL
							Diethyl phthalate	2 ug/mL
							Dimethyl phthalate	2 ug/mL
							Diphenylamine	1.7 ug/mL
							Fluoranthene	2 ug/mL
							Fluorene	2 ug/mL
							Hexachlorobenzene	2 ug/mL
							Hexachlorobutadiene	2 ug/mL
							Hexachlorocyclopentadiene	2 ug/mL
							Hexachloroethane	2 ug/mL
							Indeno[1,2,3-cd]pyrene	2 ug/mL
							Isophorone	2 ug/mL
							n-Decane	2 ug/mL
							N-Nitrosodi-n-propylamine	2 ug/mL
							N-Nitrosodimethylamine	2 ug/mL
							N-Nitrosodiphenylamine	2 ug/mL
							n-Octadecane	2 ug/mL
							Naphthalene	2 ug/mL
							Nitrobenzene	2 ug/mL
							Pentachlorophenol	4 ug/mL
							Phenanthrene	2 ug/mL
							Phenol	2 ug/mL
							Pyrene	2 ug/mL
							Pyridine	4 ug/mL
							Benzoic acid	4 ug/mL
							Indene	4 ug/mL
							Atrazine	4 ug/mL
							Benzaldehyde	4 ug/mL
							Caprolactam	4 ug/mL
							3,3'-Dichlorobenzidine	4 ug/mL
							Benzidine	4 ug/mL
							2,4,6-Tribromophenol (Surr)	2 ug/mL
							2-Fluorobiphenyl (Surr)	2 ug/mL
							2-Fluorophenol (Surr)	2 ug/mL
							Nitrobenzene-d5 (Surr)	2 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenol-d5 (Surr)	2 ug/mL
							Terphenyl-d14 (Surr)	2 ug/mL
.SMIS80PPMW_00028	11/22/23	05/22/23	MECL2, Lot 6178522	40 mL	SMIS R_00018	1.6 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00018	01/31/28	Restek, Lot A0193798			(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
.SMLIST1 STOCK_00021	12/08/23	06/08/23	MECL2, Lot 6178522	10 mL	SMLIST1 S1_00015	1 mL	1,1'-Biphenyl	100 ug/mL
							1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,2'-oxybis[1-chloropropane]	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dichlorophenol	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Diphenylamine	85 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							n-Decane	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							N-Nitrosodiphenylamine	100 ug/mL
							n-Octadecane	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	200 ug/mL
					SMLIST1 S10_00011	1 mL	Benzoic acid	200 ug/mL
							Indene	200 ug/mL
					SMLIST1 S11_00013	1 mL	Atrazine	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzaldehyde	200 ug/mL
							Caprolactam	200 ug/mL
					SMLIST1 S9_00011	1 mL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
					SMLIST1 SURR_00018	200 uL	2,4,6-Tribromophenol (Surr)	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
..SMLIST1 S1_00015	09/30/24		Restek, Lot A0195772		(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
							1,3-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 & 4 Methylphenol	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-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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Anthracene	1000 ug/mL
							Azobenzene	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
							Butyl benzyl phthalate	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
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	850 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-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 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
..SMLIST1 S10_00011	07/31/24		Restek, Lot A0193718		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SMLIST1 S11_00013	07/31/24		Restek, Lot A0193487		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..SMLIST1 S9_00011	08/31/24		Restek, Lot A0194453		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..SMLIST1 SURR_00018	04/30/27		Restek, Lot A0184539		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMLIST1 L5 W_00021	11/22/23	06/08/23	MECL2, Lot 6178522	2 mL	SMIS80PPMW_00028	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1 STOCK_00021	100 uL	1,1'-Biphenyl	5 ug/mL
							1,2,4,5-Tetrachlorobenzene	5 ug/mL
							1,2,4-Trichlorobenzene	5 ug/mL
							1,2-Dichlorobenzene	5 ug/mL
							1,3-Dichlorobenzene	5 ug/mL
							1,3-Dinitrobenzene	5 ug/mL
							1,4-Dichlorobenzene	5 ug/mL
							1,4-Dioxane	5 ug/mL
							1-Methylnaphthalene	5 ug/mL
							2,2'-oxybis[1-chloropropane]	5 ug/mL
							2,3,4,6-Tetrachlorophenol	5 ug/mL
							2,4,5-Trichlorophenol	5 ug/mL
							2,4,6-Trichlorophenol	5 ug/mL
							2,4-Dichlorophenol	5 ug/mL
							2,4-Dimethylphenol	5 ug/mL
							2,4-Dinitrophenol	10 ug/mL
							2,4-Dinitrotoluene	5 ug/mL
							2,6-Dichlorophenol	5 ug/mL
							2,6-Dinitrotoluene	5 ug/mL
							2-Chloronaphthalene	5 ug/mL
							2-Chlorophenol	5 ug/mL
							2-Methylnaphthalene	5 ug/mL
							2-Methylphenol	5 ug/mL
							2-Nitroaniline	5 ug/mL
							2-Nitrophenol	5 ug/mL
							3 & 4 Methylphenol	5 ug/mL
							3-Nitroaniline	5 ug/mL
							4,6-Dinitro-2-methylphenol	10 ug/mL
							4-Bromophenyl phenyl ether	5 ug/mL
							4-Chloro-3-methylphenol	5 ug/mL
							4-Chloroaniline	5 ug/mL
							4-Chlorophenyl phenyl ether	5 ug/mL
							4-Nitroaniline	5 ug/mL
							4-Nitrophenol	10 ug/mL
							Acenaphthene	5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acenaphthylene	5 ug/mL
							Acetophenone	5 ug/mL
							Aniline	5 ug/mL
							Anthracene	5 ug/mL
							Azobenzene	5 ug/mL
							Benzo[a]anthracene	5 ug/mL
							Benzo[a]pyrene	5 ug/mL
							Benzo[b]fluoranthene	5 ug/mL
							Benzo[g,h,i]perylene	5 ug/mL
							Benzo[k]fluoranthene	5 ug/mL
							Benzyl alcohol	5 ug/mL
							Bis(2-chloroethoxy)methane	5 ug/mL
							Bis(2-chloroethyl)ether	5 ug/mL
							Bis(2-ethylhexyl) phthalate	5 ug/mL
							Butyl benzyl phthalate	5 ug/mL
							Carbazole	5 ug/mL
							Chrysene	5 ug/mL
							Di-n-butyl phthalate	5 ug/mL
							Di-n-octyl phthalate	5 ug/mL
							Dibenz(a,h)anthracene	5 ug/mL
							Dibenzofuran	5 ug/mL
							Diethyl phthalate	5 ug/mL
							Dimethyl phthalate	5 ug/mL
							Diphenylamine	4.25 ug/mL
							Fluoranthene	5 ug/mL
							Fluorene	5 ug/mL
							Hexachlorobenzene	5 ug/mL
							Hexachlorobutadiene	5 ug/mL
							Hexachlorocyclopentadiene	5 ug/mL
							Hexachloroethane	5 ug/mL
							Indeno[1,2,3-cd]pyrene	5 ug/mL
							Isophorone	5 ug/mL
							n-Decane	5 ug/mL
							N-Nitrosodi-n-propylamine	5 ug/mL
							N-Nitrosodimethylamine	5 ug/mL
							N-Nitrosodiphenylamine	5 ug/mL
							n-Octadecane	5 ug/mL
							Naphthalene	5 ug/mL
							Nitrobenzene	5 ug/mL
							Pentachlorophenol	10 ug/mL
							Phenanthrene	5 ug/mL
							Phenol	5 ug/mL
							Pyrene	5 ug/mL
							Pyridine	10 ug/mL
							Benzoic acid	10 ug/mL
							Indene	10 ug/mL
							Atrazine	10 ug/mL
							Benzaldehyde	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Caprolactam	10 ug/mL
							3,3'-Dichlorobenzidine	10 ug/mL
							Benzidine	10 ug/mL
							2,4,6-Tribromophenol (Surr)	5 ug/mL
							2-Fluorobiphenyl (Surr)	5 ug/mL
							2-Fluorophenol (Surr)	5 ug/mL
							Nitrobenzene-d5 (Surr)	5 ug/mL
							Phenol-d5 (Surr)	5 ug/mL
							Terphenyl-d14 (Surr)	5 ug/mL
.SMIS80PPMW_00028	11/22/23	05/22/23	MECL2, Lot 6178522	40 mL	SMIS R_00018	1.6 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00018	01/31/28	Restek, Lot A0193798			(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
.SMLIST1 STOCK_00021	12/08/23	06/08/23	MECL2, Lot 6178522	10 mL	SMLIST1 S1_00015	1 mL	1,1'-Biphenyl	100 ug/mL
							1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,2'-oxybis[1-chloropropane]	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dichlorophenol	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

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	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Diphenylamine	85 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							n-Decane	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							N-Nitrosodiphenylamine	100 ug/mL
							n-Octadecane	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	200 ug/mL
					SMLIST1 S10_00011	1 mL	Benzoic acid	200 ug/mL
							Indene	200 ug/mL
					SMLIST1 S11_00013	1 mL	Atrazine	200 ug/mL
							Benzaldehyde	200 ug/mL
							Caprolactam	200 ug/mL
					SMLIST1 S9_00011	1 mL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
					SMLIST1 SURR_00018	200 uL	2,4,6-Tribromophenol (Surr)	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
..SMLIST1 S1_00015	09/30/24		Restek, Lot A0195772		(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
							1,3-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 & 4 Methylphenol	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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

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	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
							Azobenzene	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
							Butyl benzyl phthalate	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
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	850 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-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..SMLIST1 S10_00011	07/31/24		Restek, Lot A0193718		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SMLIST1 S11_00013	07/31/24		Restek, Lot A0193487		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..SMLIST1 S9_00011	08/31/24		Restek, Lot A0194453		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SMLIST1 SURR_00018	04/30/27		Restek, Lot A0184539		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMLIST1 L6 W_00021	11/22/23	06/08/23	MECL2, Lot 6178522	2 mL	SMIS80PPMW_00028	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1 STOCK_00021	200 uL	1,1'-Biphenyl	10 ug/mL
							1,2,4,5-Tetrachlorobenzene	10 ug/mL
							1,2,4-Trichlorobenzene	10 ug/mL
							1,2-Dichlorobenzene	10 ug/mL
							1,3-Dichlorobenzene	10 ug/mL
							1,3-Dinitrobenzene	10 ug/mL
							1,4-Dichlorobenzene	10 ug/mL
							1,4-Dioxane	10 ug/mL
							1-Methylnaphthalene	10 ug/mL
							2,2'-oxybis[1-chloropropane]	10 ug/mL
							2,3,4,6-Tetrachlorophenol	10 ug/mL
							2,4,5-Trichlorophenol	10 ug/mL
							2,4,6-Trichlorophenol	10 ug/mL
							2,4-Dichlorophenol	10 ug/mL
							2,4-Dimethylphenol	10 ug/mL
							2,4-Dinitrophenol	20 ug/mL
							2,4-Dinitrotoluene	10 ug/mL
							2,6-Dichlorophenol	10 ug/mL
							2,6-Dinitrotoluene	10 ug/mL
							2-Chloronaphthalene	10 ug/mL
							2-Chlorophenol	10 ug/mL
							2-Methylnaphthalene	10 ug/mL
							2-Methylphenol	10 ug/mL
							2-Nitroaniline	10 ug/mL
							2-Nitrophenol	10 ug/mL
							3 & 4 Methylphenol	10 ug/mL
							3-Nitroaniline	10 ug/mL
							4,6-Dinitro-2-methylphenol	20 ug/mL

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Bromophenyl phenyl ether	10 ug/mL
							4-Chloro-3-methylphenol	10 ug/mL
							4-Chloroaniline	10 ug/mL
							4-Chlorophenyl phenyl ether	10 ug/mL
							4-Nitroaniline	10 ug/mL
							4-Nitrophenol	20 ug/mL
							Acenaphthene	10 ug/mL
							Acenaphthylene	10 ug/mL
							Acetophenone	10 ug/mL
							Aniline	10 ug/mL
							Anthracene	10 ug/mL
							Azobenzene	10 ug/mL
							Benzo[a]anthracene	10 ug/mL
							Benzo[a]pyrene	10 ug/mL
							Benzo[b]fluoranthene	10 ug/mL
							Benzo[g,h,i]perylene	10 ug/mL
							Benzo[k]fluoranthene	10 ug/mL
							Benzyl alcohol	10 ug/mL
							Bis(2-chloroethoxy)methane	10 ug/mL
							Bis(2-chloroethyl)ether	10 ug/mL
							Bis(2-ethylhexyl) phthalate	10 ug/mL
							Butyl benzyl phthalate	10 ug/mL
							Carbazole	10 ug/mL
							Chrysene	10 ug/mL
							Di-n-butyl phthalate	10 ug/mL
							Di-n-octyl phthalate	10 ug/mL
							Dibenz(a,h)anthracene	10 ug/mL
							Dibenzofuran	10 ug/mL
							Diethyl phthalate	10 ug/mL
							Dimethyl phthalate	10 ug/mL
							Diphenylamine	8.5 ug/mL
							Fluoranthene	10 ug/mL
							Fluorene	10 ug/mL
							Hexachlorobenzene	10 ug/mL
							Hexachlorobutadiene	10 ug/mL
							Hexachlorocyclopentadiene	10 ug/mL
							Hexachloroethane	10 ug/mL
							Indeno[1,2,3-cd]pyrene	10 ug/mL
							Isophorone	10 ug/mL
							n-Decane	10 ug/mL
							N-Nitrosodi-n-propylamine	10 ug/mL
							N-Nitrosodimethylamine	10 ug/mL
							N-Nitrosodiphenylamine	10 ug/mL
							n-Octadecane	10 ug/mL
							Naphthalene	10 ug/mL
							Nitrobenzene	10 ug/mL
							Pentachlorophenol	20 ug/mL
							Phenanthrene	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenol	10 ug/mL
							Pyrene	10 ug/mL
							Pyridine	20 ug/mL
							Benzoic acid	20 ug/mL
							Indene	20 ug/mL
							Atrazine	20 ug/mL
							Benzaldehyde	20 ug/mL
							Caprolactam	20 ug/mL
							3,3'-Dichlorobenzidine	20 ug/mL
							Benzidine	20 ug/mL
							2,4,6-Tribromophenol (Surr)	10 ug/mL
							2-Fluorobiphenyl (Surr)	10 ug/mL
							2-Fluorophenol (Surr)	10 ug/mL
							Nitrobenzene-d5 (Surr)	10 ug/mL
							Phenol-d5 (Surr)	10 ug/mL
							Terphenyl-d14 (Surr)	10 ug/mL
.SMIS80PPMW_00028	11/22/23	05/22/23	MECL2, Lot 6178522	40 mL	SMIS R_00018	1.6 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00018	01/31/28	Restek, Lot A0193798			(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
.SMLIST1 STOCK_00021	12/08/23	06/08/23	MECL2, Lot 6178522	10 mL	SMLIST1 S1_00015	1 mL	1,1'-Biphenyl	100 ug/mL
							1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,2'-oxybis[1-chloropropane]	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dichlorophenol	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Diphenylamine	85 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							n-Decane	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							N-Nitrosodiphenylamine	100 ug/mL
							n-Octadecane	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	200 ug/mL
					SMLIST1 S10_00011	1 mL	Benzoic acid	200 ug/mL
							Indene	200 ug/mL
					SMLIST1 S11_00013	1 mL	Atrazine	200 ug/mL
							Benzaldehyde	200 ug/mL
							Caprolactam	200 ug/mL
					SMLIST1 S9_00011	1 mL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
					SMLIST1 SURR_00018	200 uL	2,4,6-Tribromophenol (Surr)	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
..SMLIST1 S1_00015	09/30/24		Restek, Lot A0195772		(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
							1,3-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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	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-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
							Azobenzene	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
							Butyl benzyl phthalate	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
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	850 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-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
..SMLIST1 S10_00011	07/31/24		Restek, Lot A0193718		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SMLIST1 S11_00013	07/31/24		Restek, Lot A0193487		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..SMLIST1 S9_00011	08/31/24		Restek, Lot A0194453		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SMLIST1 SURR_00018	04/30/27		Restek, Lot A0184539		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMLIST1 L7 W_00021	11/22/23	06/08/23	MECL2, Lot 6178522	2 mL	SMIS80PPMW_00028	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1 STOCK_00021	300 uL	1,1'-Biphenyl	15 ug/mL
							1,2,4,5-Tetrachlorobenzene	15 ug/mL
							1,2,4-Trichlorobenzene	15 ug/mL
							1,2-Dichlorobenzene	15 ug/mL
							1,3-Dichlorobenzene	15 ug/mL
							1,3-Dinitrobenzene	15 ug/mL
							1,4-Dichlorobenzene	15 ug/mL
							1,4-Dioxane	15 ug/mL
							1-Methylnaphthalene	15 ug/mL
							2,2'-oxybis[1-chloropropane]	15 ug/mL
							2,3,4,6-Tetrachlorophenol	15 ug/mL
							2,4,5-Trichlorophenol	15 ug/mL
							2,4,6-Trichlorophenol	15 ug/mL
							2,4-Dichlorophenol	15 ug/mL
							2,4-Dimethylphenol	15 ug/mL
							2,4-Dinitrophenol	30 ug/mL
							2,4-Dinitrotoluene	15 ug/mL
							2,6-Dichlorophenol	15 ug/mL
							2,6-Dinitrotoluene	15 ug/mL
							2-Chloronaphthalene	15 ug/mL
							2-Chlorophenol	15 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Methylnaphthalene	15 ug/mL
							2-Methylphenol	15 ug/mL
							2-Nitroaniline	15 ug/mL
							2-Nitrophenol	15 ug/mL
							3 & 4 Methylphenol	15 ug/mL
							3-Nitroaniline	15 ug/mL
							4,6-Dinitro-2-methylphenol	30 ug/mL
							4-Bromophenyl phenyl ether	15 ug/mL
							4-Chloro-3-methylphenol	15 ug/mL
							4-Chloroaniline	15 ug/mL
							4-Chlorophenyl phenyl ether	15 ug/mL
							4-Nitroaniline	15 ug/mL
							4-Nitrophenol	30 ug/mL
							Acenaphthene	15 ug/mL
							Acenaphthylene	15 ug/mL
							Acetophenone	15 ug/mL
							Aniline	15 ug/mL
							Anthracene	15 ug/mL
							Azobenzene	15 ug/mL
							Benzo[a]anthracene	15 ug/mL
							Benzo[a]pyrene	15 ug/mL
							Benzo[b]fluoranthene	15 ug/mL
							Benzo[g,h,i]perylene	15 ug/mL
							Benzo[k]fluoranthene	15 ug/mL
							Benzyl alcohol	15 ug/mL
							Bis(2-chloroethoxy)methane	15 ug/mL
							Bis(2-chloroethyl)ether	15 ug/mL
							Bis(2-ethylhexyl) phthalate	15 ug/mL
							Butyl benzyl phthalate	15 ug/mL
							Carbazole	15 ug/mL
							Chrysene	15 ug/mL
							Di-n-butyl phthalate	15 ug/mL
							Di-n-octyl phthalate	15 ug/mL
							Dibenz(a,h)anthracene	15 ug/mL
							Dibenzofuran	15 ug/mL
							Diethyl phthalate	15 ug/mL
							Dimethyl phthalate	15 ug/mL
							Diphenylamine	12.75 ug/mL
							Fluoranthene	15 ug/mL
							Fluorene	15 ug/mL
							Hexachlorobenzene	15 ug/mL
							Hexachlorobutadiene	15 ug/mL
							Hexachlorocyclopentadiene	15 ug/mL
							Hexachloroethane	15 ug/mL
							Indeno[1,2,3-cd]pyrene	15 ug/mL
							Isophorone	15 ug/mL
							n-Decane	15 ug/mL
							N-Nitrosodi-n-propylamine	15 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosodimethylamine	15 ug/mL
							N-Nitrosodiphenylamine	15 ug/mL
							n-Octadecane	15 ug/mL
							Naphthalene	15 ug/mL
							Nitrobenzene	15 ug/mL
							Pentachlorophenol	30 ug/mL
							Phenanthrene	15 ug/mL
							Phenol	15 ug/mL
							Pyrene	15 ug/mL
							Pyridine	30 ug/mL
							Benzoic acid	30 ug/mL
							Indene	30 ug/mL
							Atrazine	30 ug/mL
							Benzaldehyde	30 ug/mL
							Caprolactam	30 ug/mL
							3,3'-Dichlorobenzidine	30 ug/mL
							Benzidine	30 ug/mL
							2,4,6-Tribromophenol (Surr)	15 ug/mL
							2-Fluorobiphenyl (Surr)	15 ug/mL
							2-Fluorophenol (Surr)	15 ug/mL
							Nitrobenzene-d5 (Surr)	15 ug/mL
							Phenol-d5 (Surr)	15 ug/mL
							Terphenyl-d14 (Surr)	15 ug/mL
.SMIS80PPMW_00028	11/22/23	05/22/23	MECL2, Lot 6178522	40 mL	SMIS R_00018	1.6 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00018	01/31/28	Restek, Lot A0193798			(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
.SMLIST1 STOCK_00021	12/08/23	06/08/23	MECL2, Lot 6178522	10 mL	SMLIST1 S1_00015	1 mL	1,1'-Biphenyl	100 ug/mL
							1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,2'-oxybis[1-chloropropane]	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dichlorophenol	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Diphenylamine	85 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							n-Decane	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							N-Nitrosodiphenylamine	100 ug/mL
							n-Octadecane	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	200 ug/mL
					SMLIST1 S10_00011	1 mL	Benzoic acid	200 ug/mL
							Indene	200 ug/mL
					SMLIST1 S11_00013	1 mL	Atrazine	200 ug/mL
							Benzaldehyde	200 ug/mL
							Caprolactam	200 ug/mL
					SMLIST1 S9_00011	1 mL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
					SMLIST1 SURR_00018	200 uL	2,4,6-Tribromophenol (Surr)	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
..SMLIST1 S1_00015	09/30/24		Restek, Lot A0195772		(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
							1,3-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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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 & 4 Methylphenol	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-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
							Azobenzene	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
							Butyl benzyl phthalate	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
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	850 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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

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	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	1000 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
..SMLIST1 S10_00011	07/31/24		Restek, Lot A0193718		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SMLIST1 S11_00013	07/31/24		Restek, Lot A0193487		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..SMLIST1 S9_00011	08/31/24		Restek, Lot A0194453		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SMLIST1 SURR_00018	04/30/27		Restek, Lot A0184539		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMLIST1 L8 W_00021	11/22/23	06/08/23	MECL2, Lot 6178522	2 mL	SMIS80PPMW_00028	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1 STOCK_00021	400 uL	1,1'-Biphenyl	20 ug/mL
							1,2,4,5-Tetrachlorobenzene	20 ug/mL
							1,2,4-Trichlorobenzene	20 ug/mL
							1,2-Dichlorobenzene	20 ug/mL
							1,3-Dichlorobenzene	20 ug/mL
							1,3-Dinitrobenzene	20 ug/mL
							1,4-Dichlorobenzene	20 ug/mL
							1,4-Dioxane	20 ug/mL
							1-Methylnaphthalene	20 ug/mL
							2,2'-oxybis[1-chloropropane]	20 ug/mL
							2,3,4,6-Tetrachlorophenol	20 ug/mL
							2,4,5-Trichlorophenol	20 ug/mL
							2,4,6-Trichlorophenol	20 ug/mL
							2,4-Dichlorophenol	20 ug/mL

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dimethylphenol	20 ug/mL
							2,4-Dinitrophenol	40 ug/mL
							2,4-Dinitrotoluene	20 ug/mL
							2,6-Dichlorophenol	20 ug/mL
							2,6-Dinitrotoluene	20 ug/mL
							2-Chloronaphthalene	20 ug/mL
							2-Chlorophenol	20 ug/mL
							2-Methylnaphthalene	20 ug/mL
							2-Methylphenol	20 ug/mL
							2-Nitroaniline	20 ug/mL
							2-Nitrophenol	20 ug/mL
							3 & 4 Methylphenol	20 ug/mL
							3-Nitroaniline	20 ug/mL
							4,6-Dinitro-2-methylphenol	40 ug/mL
							4-Bromophenyl phenyl ether	20 ug/mL
							4-Chloro-3-methylphenol	20 ug/mL
							4-Chloroaniline	20 ug/mL
							4-Chlorophenyl phenyl ether	20 ug/mL
							4-Nitroaniline	20 ug/mL
							4-Nitrophenol	40 ug/mL
							Acenaphthene	20 ug/mL
							Acenaphthylene	20 ug/mL
							Acetophenone	20 ug/mL
							Aniline	20 ug/mL
							Anthracene	20 ug/mL
							Azobenzene	20 ug/mL
							Benzo[a]anthracene	20 ug/mL
							Benzo[a]pyrene	20 ug/mL
							Benzo[b]fluoranthene	20 ug/mL
							Benzo[g,h,i]perylene	20 ug/mL
							Benzo[k]fluoranthene	20 ug/mL
							Benzyl alcohol	20 ug/mL
							Bis(2-chloroethoxy)methane	20 ug/mL
							Bis(2-chloroethyl)ether	20 ug/mL
							Bis(2-ethylhexyl) phthalate	20 ug/mL
							Butyl benzyl phthalate	20 ug/mL
							Carbazole	20 ug/mL
							Chrysene	20 ug/mL
							Di-n-butyl phthalate	20 ug/mL
							Di-n-octyl phthalate	20 ug/mL
							Dibenz(a,h)anthracene	20 ug/mL
							Dibenzofuran	20 ug/mL
							Diethyl phthalate	20 ug/mL
							Dimethyl phthalate	20 ug/mL
							Diphenylamine	17 ug/mL
							Fluoranthene	20 ug/mL
							Fluorene	20 ug/mL
							Hexachlorobenzene	20 ug/mL

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorobutadiene	20 ug/mL
							Hexachlorocyclopentadiene	20 ug/mL
							Hexachloroethane	20 ug/mL
							Indeno[1,2,3-cd]pyrene	20 ug/mL
							Isophorone	20 ug/mL
							n-Decane	20 ug/mL
							N-Nitrosodi-n-propylamine	20 ug/mL
							N-Nitrosodimethylamine	20 ug/mL
							N-Nitrosodiphenylamine	20 ug/mL
							n-Octadecane	20 ug/mL
							Naphthalene	20 ug/mL
							Nitrobenzene	20 ug/mL
							Pentachlorophenol	40 ug/mL
							Phenanthrene	20 ug/mL
							Phenol	20 ug/mL
							Pyrene	20 ug/mL
							Pyridine	40 ug/mL
							Benzoic acid	40 ug/mL
							Indene	40 ug/mL
							Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
							3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
							2,4,6-Tribromophenol (Surr)	20 ug/mL
							2-Fluorobiphenyl (Surr)	20 ug/mL
							2-Fluorophenol (Surr)	20 ug/mL
							Nitrobenzene-d5 (Surr)	20 ug/mL
							Phenol-d5 (Surr)	20 ug/mL
							Terphenyl-d14 (Surr)	20 ug/mL
.SMIS80PPMW_00028	11/22/23	05/22/23	MECL2, Lot 6178522	40 mL	SMIS R_00018	1.6 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00018	01/31/28	Restek, Lot A0193798			(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
.SMLIST1 STOCK_00021	12/08/23	06/08/23	MECL2, Lot 6178522	10 mL	SMLIST1 S1_00015	1 mL	1,1'-Biphenyl	100 ug/mL
							1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,2'-oxybis[1-chloropropane]	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dichlorophenol	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Diphenylamine	85 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							n-Decane	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							N-Nitrosodiphenylamine	100 ug/mL
							n-Octadecane	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	200 ug/mL
					SMLIST1 S10_00011	1 mL	Benzoic acid	200 ug/mL
							Indene	200 ug/mL
					SMLIST1 S11_00013	1 mL	Atrazine	200 ug/mL
							Benzaldehyde	200 ug/mL
							Caprolactam	200 ug/mL
					SMLIST1 S9_00011	1 mL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
					SMLIST1 SURR_00018	200 uL	2,4,6-Tribromophenol (Surr)	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
..SMLIST1 S1_00015	09/30/24		Restek, Lot A0195772		(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
							1,3-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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

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	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 & 4 Methylphenol	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-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
							Azobenzene	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
							Butyl benzyl phthalate	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
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Diphenylamine	850 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-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 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
..SMLIST1 S10_00011	07/31/24		Restek, Lot A0193718		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SMLIST1 S11_00013	07/31/24		Restek, Lot A0193487		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..SMLIST1 S9_00011	08/31/24		Restek, Lot A0194453		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SMLIST1 SURR_00018	04/30/27		Restek, Lot A0184539		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMLIST1 L9 W_00021	11/22/23	06/08/23	MECL2, Lot 6178522	2 mL	SMIS80PPMW_00028	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1 STOCK_00021	500 uL	1,1'-Biphenyl	25 ug/mL
							1,2,4,5-Tetrachlorobenzene	25 ug/mL
							1,2,4-Trichlorobenzene	25 ug/mL
							1,2-Dichlorobenzene	25 ug/mL
							1,3-Dichlorobenzene	25 ug/mL
							1,3-Dinitrobenzene	25 ug/mL
							1,4-Dichlorobenzene	25 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dioxane	25 ug/mL
							1-Methylnaphthalene	25 ug/mL
							2,2'-oxybis[1-chloropropane]	25 ug/mL
							2,3,4,6-Tetrachlorophenol	25 ug/mL
							2,4,5-Trichlorophenol	25 ug/mL
							2,4,6-Trichlorophenol	25 ug/mL
							2,4-Dichlorophenol	25 ug/mL
							2,4-Dimethylphenol	25 ug/mL
							2,4-Dinitrophenol	50 ug/mL
							2,4-Dinitrotoluene	25 ug/mL
							2,6-Dichlorophenol	25 ug/mL
							2,6-Dinitrotoluene	25 ug/mL
							2-Chloronaphthalene	25 ug/mL
							2-Chlorophenol	25 ug/mL
							2-Methylnaphthalene	25 ug/mL
							2-Methylphenol	25 ug/mL
							2-Nitroaniline	25 ug/mL
							2-Nitrophenol	25 ug/mL
							3 & 4 Methylphenol	25 ug/mL
							3-Nitroaniline	25 ug/mL
							4,6-Dinitro-2-methylphenol	50 ug/mL
							4-Bromophenyl phenyl ether	25 ug/mL
							4-Chloro-3-methylphenol	25 ug/mL
							4-Chloroaniline	25 ug/mL
							4-Chlorophenyl phenyl ether	25 ug/mL
							4-Nitroaniline	25 ug/mL
							4-Nitrophenol	50 ug/mL
							Acenaphthene	25 ug/mL
							Acenaphthylene	25 ug/mL
							Acetophenone	25 ug/mL
							Aniline	25 ug/mL
							Anthracene	25 ug/mL
							Azobenzene	25 ug/mL
							Benzo[a]anthracene	25 ug/mL
							Benzo[a]pyrene	25 ug/mL
							Benzo[b]fluoranthene	25 ug/mL
							Benzo[g,h,i]perylene	25 ug/mL
							Benzo[k]fluoranthene	25 ug/mL
							Benzyl alcohol	25 ug/mL
							Bis(2-chloroethoxy)methane	25 ug/mL
							Bis(2-chloroethyl)ether	25 ug/mL
							Bis(2-ethylhexyl) phthalate	25 ug/mL
							Butyl benzyl phthalate	25 ug/mL
							Carbazole	25 ug/mL
							Chrysene	25 ug/mL
							Di-n-butyl phthalate	25 ug/mL
							Di-n-octyl phthalate	25 ug/mL
							Dibenz(a,h)anthracene	25 ug/mL

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibenzofuran	25 ug/mL
							Diethyl phthalate	25 ug/mL
							Dimethyl phthalate	25 ug/mL
							Diphenylamine	21.25 ug/mL
							Fluoranthene	25 ug/mL
							Fluorene	25 ug/mL
							Hexachlorobenzene	25 ug/mL
							Hexachlorobutadiene	25 ug/mL
							Hexachlorocyclopentadiene	25 ug/mL
							Hexachloroethane	25 ug/mL
							Indeno[1,2,3-cd]pyrene	25 ug/mL
							Isophorone	25 ug/mL
							n-Decane	25 ug/mL
							N-Nitrosodi-n-propylamine	25 ug/mL
							N-Nitrosodimethylamine	25 ug/mL
							N-Nitrosodiphenylamine	25 ug/mL
							n-Octadecane	25 ug/mL
							Naphthalene	25 ug/mL
							Nitrobenzene	25 ug/mL
							Pentachlorophenol	50 ug/mL
							Phenanthrene	25 ug/mL
							Phenol	25 ug/mL
							Pyrene	25 ug/mL
							Pyridine	50 ug/mL
							Benzoic acid	50 ug/mL
							Indene	50 ug/mL
							Atrazine	50 ug/mL
							Benzaldehyde	50 ug/mL
							Caprolactam	50 ug/mL
							3,3'-Dichlorobenzidine	50 ug/mL
							Benzidine	50 ug/mL
							2,4,6-Tribromophenol (Surr)	25 ug/mL
							2-Fluorobiphenyl (Surr)	25 ug/mL
							2-Fluorophenol (Surr)	25 ug/mL
							Nitrobenzene-d5 (Surr)	25 ug/mL
							Phenol-d5 (Surr)	25 ug/mL
							Terphenyl-d14 (Surr)	25 ug/mL
.SMIS80PPMW_00028	11/22/23	05/22/23	MECL2, Lot 6178522	40 mL	SMIS R_00018	1.6 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00018	01/31/28	Restek, Lot A0193798			(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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenanthrene-d10	2000 ug/mL
.SMLIST1 STOCK_00021	12/08/23	06/08/23	MECL2, Lot 6178522	10 mL	SMLIST1 S1_00015	1 mL	1,1'-Biphenyl	100 ug/mL
							1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,2'-oxybis[1-chloropropane]	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dichlorophenol	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

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	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Diphenylamine	85 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							n-Decane	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							N-Nitrosodiphenylamine	100 ug/mL
							n-Octadecane	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	200 ug/mL
					SMLIST1 S10_00011	1 mL	Benzoic acid	200 ug/mL
							Indene	200 ug/mL
					SMLIST1 S11_00013	1 mL	Atrazine	200 ug/mL
							Benzaldehyde	200 ug/mL
							Caprolactam	200 ug/mL
					SMLIST1 S9_00011	1 mL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
					SMLIST1 SURR_00018	200 uL	2,4,6-Tribromophenol (Surr)	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
..SMLIST1 S1_00015	09/30/24		Restek, Lot A0195772		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichlorobenzene	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 & 4 Methylphenol	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-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
							Azobenzene	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
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	850 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-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 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
..SMLIST1 S10_00011	07/31/24		Restek, Lot A0193718		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SMLIST1 S11_00013	07/31/24		Restek, Lot A0193487		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..SMLIST1 S9_00011	08/31/24		Restek, Lot A0194453		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SMLIST1 SURR_00018	04/30/27		Restek, Lot A0184539		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMLIST1 SS W_00021	09/30/23	04/20/23	MECL2, Lot 22L0562001	2 mL	SMIS80PPMW_00027	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.SMIS80PPMW_00027	10/31/23	10/06/22	MECL2, Lot 22F0162005	40 mL	SMIS R_00017	1.6 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00017	07/31/27		Restek, Lot A0187296		(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
SMLIST1 SS W_00021	09/30/23	04/20/23	MECL2, Lot 22L0562001	2 mL	SMLIST1 SS ST_00020	200 uL	2,4-Dimethylphenol	10 ug/mL
							2,4-Dinitrophenol	20 ug/mL
							3-Nitroaniline	10 ug/mL
							4,6-Dinitro-2-methylphenol	20 ug/mL
							4-Chloroaniline	10 ug/mL
							4-Nitroaniline	10 ug/mL
							4-Nitrophenol	20 ug/mL
							Acetophenone	10 ug/mL
							Aniline	10 ug/mL
							Benzyl alcohol	10 ug/mL
							Bis(2-chloroethoxy)methane	10 ug/mL
							Bis(2-chloroethyl)ether	10 ug/mL
							Butyl benzyl phthalate	10 ug/mL
							Di-n-butyl phthalate	10 ug/mL
							Hexachlorocyclopentadiene	10 ug/mL
							Hexachloroethane	10 ug/mL
							Isophorone	10 ug/mL
							N-Nitrosodi-n-propylamine	10 ug/mL
							N-Nitrosodiphenylamine	10 ug/mL
							Pyridine	20 ug/mL
							3,3'-Dichlorobenzidine	20 ug/mL
							2,4,6-Tribromophenol (Surr)	10 ug/mL
							2-Fluorobiphenyl (Surr)	10 ug/mL
							2-Fluorophenol (Surr)	10 ug/mL
							Nitrobenzene-d5 (Surr)	10 ug/mL
							Phenol-d5 (Surr)	10 ug/mL
							Terphenyl-d14 (Surr)	10 ug/mL
.SMLIST1 SS ST_00020	09/30/23	04/20/23	MECL2, Lot 22L0562001	10 mL	SMLIST1 SS S1_00014	1 mL	2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzyl alcohol	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Isophorone	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodiphenylamine	100 ug/mL
							Pyridine	200 ug/mL
					SMLIST1 SS S9_00011	1 mL	3,3'-Dichlorobenzidine	200 ug/mL
					SMLIST1 SURR_00017	200 uL	2,4,6-Tribromophenol (Surr)	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
..SMLIST1 SS S1_00014	07/31/24		Restek, Lot A0194078		(Purchased Reagent)		2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							Pyridine	2000 ug/mL
..SMLIST1 SS S9_00011	01/31/24		Restek, Lot A0187547		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
..SMLIST1 SURR_00017	05/30/26		Restek, Lot A0172807		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMLIST2 L2 W_00031	07/30/23	03/15/23	MECL2, Lot 22F0162005	2 mL	SMIS80PPMW_00027	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST2 STOCK_00035	10 uL	1,3,5-Trinitrobenzene	0.5 ug/mL
							1,4-Dinitrobenzene	0.5 ug/mL
							1-Naphthylamine	0.5 ug/mL
							2-Acetylaminofluorene	0.5 ug/mL
							2-Naphthylamine	0.5 ug/mL
							2-Picoline	0.5 ug/mL
							3,3'-Dimethylbenzidine	0.5 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	0.5 ug/mL
							4-Aminobiphenyl	0.5 ug/mL
							4-Nitroquinoline-1-oxide	0.5 ug/mL
							alpha,alpha-Dimethyl phenethylamine	0.5 ug/mL
							Dibenz[a,h]acridine	0.5 ug/mL
							N-Nitro-o-toluidine	0.5 ug/mL
							N-Nitrosodi-n-butylamine	0.5 ug/mL
							N-Nitrosodiethylamine	0.5 ug/mL
							N-Nitrosomethylethylamine	0.5 ug/mL
							N-Nitrosomorpholine	0.5 ug/mL
							N-Nitrosopiperidine	0.5 ug/mL
							N-Nitrosopyrrolidine	0.5 ug/mL
							o-Toluidine	0.5 ug/mL
							p-Dimethylamino azobenzene	0.5 ug/mL
							p-Phenylene diamine	0.5 ug/mL
							Pentachloronitrobenzene	0.5 ug/mL
							Phenacetin	0.5 ug/mL
							Pronamide	0.5 ug/mL
							Quinoline	0.5 ug/mL
							1,4-Naphthoquinone	0.5 ug/mL
							7,12-Dimethylbenz(a)anthracene	0.5 ug/mL
							Chlorobenzilate	0.5 ug/mL
							Dinoseb	0.5 ug/mL
							Ethyl methanesulfonate	0.5 ug/mL
							Hexachloropropene	0.5 ug/mL
							Isodrin	0.5 ug/mL
							Isosafrole Peak 1	0.08 ug/mL
							Isosafrole Peak 2	0.42 ug/mL
							Methyl methanesulfonate	0.5 ug/mL
							Pentachlorobenzene	0.5 ug/mL
							Pentachloroethane	0.5 ug/mL
							3-Methylcholanthrene	1 ug/mL
							6-Methylchrysene	1 ug/mL
							Aramite Peak 1	0.24 ug/mL
							Aramite Peak 2	0.26 ug/mL

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Diallate Peak 1	0.37 ug/mL
							Diallate Peak 2	0.13 ug/mL
							Dimethoate	0.5 ug/mL
							Disulfoton	0.5 ug/mL
							Ethyl Parathion	0.5 ug/mL
							Famphur	0.5 ug/mL
							Methyl parathion	0.5 ug/mL
							o,o',o''-Triethylphosphorothioate	0.5 ug/mL
							Phorate	0.5 ug/mL
							Safrole, Total	0.5 ug/mL
							Sulfotepp	0.5 ug/mL
							Thionazin	0.5 ug/mL
							Methapyrilene	1 ug/mL
.SMIS80PPMW_00027	10/31/23	10/06/22	MECL2, Lot 22F0162005	40 mL	SMIS R_00017	1.6 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00017	07/31/27	Restek, Lot A0187296			(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
.SMLIST2 STOCK_00035	07/30/23	03/15/23	MECL2, Lot 22F0162005	10 mL	SMLIST2 S1_00026	1 mL	1,3,5-Trinitrobenzene	100 ug/mL
							1,4-Dinitrobenzene	100 ug/mL
							1-Naphthylamine	100 ug/mL
							2-Acetylaminofluorene	100 ug/mL
							2-Naphthylamine	100 ug/mL
							2-Picoline	100 ug/mL
							3,3'-Dimethylbenzidine	100 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	100 ug/mL
							4-Aminobiphenyl	100 ug/mL
							4-Nitroquinoline-1-oxide	100 ug/mL
							alpha,alpha-Dimethyl phenethylamine	100 ug/mL
							Dibenz[a,h]acridine	100 ug/mL
							N-Nitro-o-toluidine	100 ug/mL
							N-Nitrosodi-n-butylamine	100 ug/mL
							N-Nitrosodiethylamine	100 ug/mL
							N-Nitrosomethylethylamine	100 ug/mL
							N-Nitrosomorpholine	100 ug/mL
							N-Nitrosopiperidine	100 ug/mL
							N-Nitrosopyrrolidine	100 ug/mL
							o-Toluidine	100 ug/mL

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							p-Dimethylamino azobenzene	100 ug/mL
							p-Phenylene diamine	100 ug/mL
							Pentachloronitrobenzene	100 ug/mL
							Phenacetin	100 ug/mL
							Pronamide	100 ug/mL
							Quinoline	100 ug/mL
					SMLIST2 S2_00030	1 mL	1,4-Naphthoquinone	100 ug/mL
							7,12-Dimethylbenz(a)anthracene	100 ug/mL
							Chlorobenzilate	100 ug/mL
							Dinoseb	100 ug/mL
							Ethyl methanesulfonate	100 ug/mL
							Hexachloropropene	100 ug/mL
							Isodrin	100 ug/mL
							Isosafrole Peak 1	16 ug/mL
							Isosafrole Peak 2	84 ug/mL
							Methyl methanesulfonate	100 ug/mL
							Pentachlorobenzene	100 ug/mL
							Pentachloroethane	100 ug/mL
					SMLIST2 S3_00028	1 mL	3-Methylcholanthrene	200 ug/mL
							6-Methylchrysene	200 ug/mL
					SMLIST2 S4_00020	1 mL	Aramite Peak 1	48 ug/mL
							Aramite Peak 2	52 ug/mL
							Diallate Peak 1	74 ug/mL
							Diallate Peak 2	26 ug/mL
							Dimethoate	100 ug/mL
							Disulfoton	100 ug/mL
							Ethyl Parathion	100 ug/mL
							Famphur	100 ug/mL
							Methyl parathion	100 ug/mL
							o,o',o''-Triethylphosphorothioate	100 ug/mL
							Phorate	100 ug/mL
							Safrole, Total	100 ug/mL
							Sulfotepp	100 ug/mL
							Thionazin	100 ug/mL
					SMLIST2 S5_00018	1 mL	Methapyrilene	200 ug/mL
..SMLIST2 S1_00026	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
							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

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							alpha,alpha-Dimethyl phenethylamine	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
							o-Toluidine	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
..SMLIST2 S2_00030	01/31/24		Restek, Lot A0193498		(Purchased Reagent)		1,4-Naphthoquinone	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
							Pentachloroethane	1000 ug/mL
..SMLIST2 S3_00028	01/31/24		Restek, Lot A0193475		(Purchased Reagent)		3-Methylcholanthrene	2000 ug/mL
							6-Methylchrysene	2000 ug/mL
..SMLIST2 S4_00020	01/31/25		Restek, Lot A0193163		(Purchased Reagent)		Aramite Peak 1	480 ug/mL
							Aramite Peak 2	520 ug/mL
							Diallate Peak 1	740 ug/mL
							Diallate Peak 2	260 ug/mL
							Dimethoate	1000 ug/mL
							Disulfoton	1000 ug/mL
							Ethyl Parathion	1000 ug/mL
							Famphur	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
..SMLIST2 S5_00018	01/31/25		Restek, Lot A0193415		(Purchased Reagent)		Methapyrilene	2000 ug/mL
SMLIST2 L3 W_00030	07/30/23	03/15/23	MECL2, Lot 22F0162005	2 mL	SMIS80PPMW_00027	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST2 STOCK_00035	20 uL	1,3,5-Trinitrobenzene	1 ug/mL
							1,4-Dinitrobenzene	1 ug/mL
							1-Naphthylamine	1 ug/mL
							2-Acetylaminofluorene	1 ug/mL
							2-Naphthylamine	1 ug/mL
							2-Picoline	1 ug/mL
							3,3'-Dimethylbenzidine	1 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	1 ug/mL
							4-Aminobiphenyl	1 ug/mL
							4-Nitroquinoline-1-oxide	1 ug/mL
							alpha,alpha-Dimethyl phenethylamine	1 ug/mL
							Dibenz[a,h]acridine	1 ug/mL
							N-Nitro-o-toluidine	1 ug/mL
							N-Nitrosodi-n-butylamine	1 ug/mL
							N-Nitrosodiethylamine	1 ug/mL
							N-Nitrosomethylethylamine	1 ug/mL
							N-Nitrosomorpholine	1 ug/mL
							N-Nitrosopiperidine	1 ug/mL
							N-Nitrosopyrrolidine	1 ug/mL
							o-Toluidine	1 ug/mL
							p-Dimethylamino azobenzene	1 ug/mL
							p-Phenylene diamine	1 ug/mL
							Pentachloronitrobenzene	1 ug/mL
							Phenacetin	1 ug/mL
							Pronamide	1 ug/mL
							Quinoline	1 ug/mL
							1,4-Naphthoquinone	1 ug/mL
							7,12-Dimethylbenz(a)anthracene	1 ug/mL
							Chlorobenzilate	1 ug/mL
							Dinoseb	1 ug/mL
							Ethyl methanesulfonate	1 ug/mL
							Hexachloropropene	1 ug/mL
							Isodrin	1 ug/mL
							Isosafrole Peak 1	0.16 ug/mL
							Isosafrole Peak 2	0.84 ug/mL
							Methyl methanesulfonate	1 ug/mL
							Pentachlorobenzene	1 ug/mL
							Pentachloroethane	1 ug/mL
							3-Methylcholanthrene	2 ug/mL
							6-Methylchrysene	2 ug/mL
							Aramite Peak 1	0.48 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Aramite Peak 2	0.52 ug/mL
							Diallate Peak 1	0.74 ug/mL
							Diallate Peak 2	0.26 ug/mL
							Dimethoate	1 ug/mL
							Disulfoton	1 ug/mL
							Ethyl Parathion	1 ug/mL
							Famphur	1 ug/mL
							Methyl parathion	1 ug/mL
							o,o',o''-Triethylphosphorothioate	1 ug/mL
							Phorate	1 ug/mL
							Safrole, Total	1 ug/mL
							Sulfotepp	1 ug/mL
							Thionazin	1 ug/mL
							Methapyrilene	2 ug/mL
.SMIS80PPMW_00027	10/31/23	10/06/22	MECL2, Lot 22F0162005	40 mL	SMIS R_00017	1.6 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00017	07/31/27	Restek, Lot A0187296			(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
.SMLIST2 STOCK_00035	07/30/23	03/15/23	MECL2, Lot 22F0162005	10 mL	SMLIST2 S1_00026	1 mL	1,3,5-Trinitrobenzene	100 ug/mL
							1,4-Dinitrobenzene	100 ug/mL
							1-Naphthylamine	100 ug/mL
							2-Acetylaminofluorene	100 ug/mL
							2-Naphthylamine	100 ug/mL
							2-Picoline	100 ug/mL
							3,3'-Dimethylbenzidine	100 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	100 ug/mL
							4-Aminobiphenyl	100 ug/mL
							4-Nitroquinoline-1-oxide	100 ug/mL
							alpha,alpha-Dimethyl phenethylamine	100 ug/mL
							Dibenz[a,h]acridine	100 ug/mL
							N-Nitro-o-toluidine	100 ug/mL
							N-Nitrosodi-n-butylamine	100 ug/mL
							N-Nitrosodiethylamine	100 ug/mL
							N-Nitrosomethylethylamine	100 ug/mL
							N-Nitrosomorpholine	100 ug/mL
							N-Nitrosopiperidine	100 ug/mL
							N-Nitrosopyrrolidine	100 ug/mL

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							o-Toluidine	100 ug/mL
							p-Dimethylamino azobenzene	100 ug/mL
							p-Phenylene diamine	100 ug/mL
							Pentachloronitrobenzene	100 ug/mL
							Phenacetin	100 ug/mL
							Pronamide	100 ug/mL
							Quinoline	100 ug/mL
					SMLIST2 S2_00030	1 mL	1,4-Naphthoquinone	100 ug/mL
							7,12-Dimethylbenz(a)anthracene	100 ug/mL
							Chlorobenzilate	100 ug/mL
							Dinoseb	100 ug/mL
							Ethyl methanesulfonate	100 ug/mL
							Hexachloropropene	100 ug/mL
							Isodrin	100 ug/mL
							Isosafrole Peak 1	16 ug/mL
							Isosafrole Peak 2	84 ug/mL
							Methyl methanesulfonate	100 ug/mL
							Pentachlorobenzene	100 ug/mL
							Pentachloroethane	100 ug/mL
					SMLIST2 S3_00028	1 mL	3-Methylcholanthrene	200 ug/mL
							6-Methylchrysene	200 ug/mL
					SMLIST2 S4_00020	1 mL	Aramite Peak 1	48 ug/mL
							Aramite Peak 2	52 ug/mL
							Diallate Peak 1	74 ug/mL
							Diallate Peak 2	26 ug/mL
							Dimethoate	100 ug/mL
							Disulfoton	100 ug/mL
							Ethyl Parathion	100 ug/mL
							Famphur	100 ug/mL
							Methyl parathion	100 ug/mL
							o,o',o''-Triethylphosphorothioate	100 ug/mL
							Phorate	100 ug/mL
							Safrole, Total	100 ug/mL
							Sulfotepp	100 ug/mL
							Thionazin	100 ug/mL
					SMLIST2 S5_00018	1 mL	Methapyrilene	200 ug/mL
..SMLIST2 S1_00026	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
							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

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							alpha,alpha-Dimethyl phenethylamine	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
							o-Toluidine	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
..SMLIST2 S2_00030	01/31/24		Restek, Lot A0193498		(Purchased Reagent)		1,4-Naphthoquinone	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
							Pentachloroethane	1000 ug/mL
..SMLIST2 S3_00028	01/31/24		Restek, Lot A0193475		(Purchased Reagent)		3-Methylcholanthrene	2000 ug/mL
							6-Methylchrysene	2000 ug/mL
..SMLIST2 S4_00020	01/31/25		Restek, Lot A0193163		(Purchased Reagent)		Aramite Peak 1	480 ug/mL
							Aramite Peak 2	520 ug/mL
							Diallate Peak 1	740 ug/mL
							Diallate Peak 2	260 ug/mL
							Dimethoate	1000 ug/mL
							Disulfoton	1000 ug/mL
							Ethyl Parathion	1000 ug/mL
							Famphur	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
..SMLIST2 S5_00018	01/31/25		Restek, Lot A0193415		(Purchased Reagent)		Methapyrilene	2000 ug/mL
SMLIST2 L4 W_00030	07/30/23	03/15/23	MECL2, Lot 22F0162005	2 mL	SMIS80PPMW_00027	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST2 STOCK_00035	40 uL	1,3,5-Trinitrobenzene	2 ug/mL
							1,4-Dinitrobenzene	2 ug/mL
							1-Naphthylamine	2 ug/mL
							2-Acetylaminofluorene	2 ug/mL
							2-Naphthylamine	2 ug/mL
							2-Picoline	2 ug/mL
							3,3'-Dimethylbenzidine	2 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	2 ug/mL
							4-Aminobiphenyl	2 ug/mL
							4-Nitroquinoline-1-oxide	2 ug/mL
							alpha,alpha-Dimethyl phenethylamine	2 ug/mL
							Dibenz[a,h]acridine	2 ug/mL
							N-Nitro-o-toluidine	2 ug/mL
							N-Nitrosodi-n-butylamine	2 ug/mL
							N-Nitrosodiethylamine	2 ug/mL
							N-Nitrosomethylethylamine	2 ug/mL
							N-Nitrosomorpholine	2 ug/mL
							N-Nitrosopiperidine	2 ug/mL
							N-Nitrosopyrrolidine	2 ug/mL
							o-Toluidine	2 ug/mL
							p-Dimethylamino azobenzene	2 ug/mL
							p-Phenylene diamine	2 ug/mL
							Pentachloronitrobenzene	2 ug/mL
							Phenacetin	2 ug/mL
							Pronamide	2 ug/mL
							Quinoline	2 ug/mL
							1,4-Naphthoquinone	2 ug/mL
							7,12-Dimethylbenz(a)anthracene	2 ug/mL
							Chlorobenzilate	2 ug/mL
							Dinoseb	2 ug/mL
							Ethyl methanesulfonate	2 ug/mL
							Hexachloropropene	2 ug/mL
							Isodrin	2 ug/mL
							Isosafrole Peak 1	0.32 ug/mL
							Isosafrole Peak 2	1.68 ug/mL
							Methyl methanesulfonate	2 ug/mL
							Pentachlorobenzene	2 ug/mL
							Pentachloroethane	2 ug/mL
							3-Methylcholanthrene	4 ug/mL
							6-Methylchrysene	4 ug/mL
							Aramite Peak 1	0.96 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Aramite Peak 2	1.04 ug/mL
							Diallate Peak 1	1.48 ug/mL
							Diallate Peak 2	0.52 ug/mL
							Dimethoate	2 ug/mL
							Disulfoton	2 ug/mL
							Ethyl Parathion	2 ug/mL
							Famphur	2 ug/mL
							Methyl parathion	2 ug/mL
							o,o',o''-Triethylphosphorothioate	2 ug/mL
							Phorate	2 ug/mL
							Safrole, Total	2 ug/mL
							Sulfotepp	2 ug/mL
							Thionazin	2 ug/mL
							Methapyrilene	4 ug/mL
.SMIS80PPMW_00027	10/31/23	10/06/22	MECL2, Lot 22F0162005	40 mL	SMIS R_00017	1.6 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00017	07/31/27	Restek, Lot A0187296			(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
.SMLIST2 STOCK_00035	07/30/23	03/15/23	MECL2, Lot 22F0162005	10 mL	SMLIST2 S1_00026	1 mL	1,3,5-Trinitrobenzene	100 ug/mL
							1,4-Dinitrobenzene	100 ug/mL
							1-Naphthylamine	100 ug/mL
							2-Acetylaminofluorene	100 ug/mL
							2-Naphthylamine	100 ug/mL
							2-Picoline	100 ug/mL
							3,3'-Dimethylbenzidine	100 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	100 ug/mL
							4-Aminobiphenyl	100 ug/mL
							4-Nitroquinoline-1-oxide	100 ug/mL
							alpha,alpha-Dimethyl phenethylamine	100 ug/mL
							Dibenz[a,h]acridine	100 ug/mL
							N-Nitro-o-toluidine	100 ug/mL
							N-Nitrosodi-n-butylamine	100 ug/mL
							N-Nitrosodiethylamine	100 ug/mL
							N-Nitrosomethylethylamine	100 ug/mL
							N-Nitrosomorpholine	100 ug/mL
							N-Nitrosopiperidine	100 ug/mL
							N-Nitrosopyrrolidine	100 ug/mL

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							o-Toluidine	100 ug/mL
							p-Dimethylamino azobenzene	100 ug/mL
							p-Phenylene diamine	100 ug/mL
							Pentachloronitrobenzene	100 ug/mL
							Phenacetin	100 ug/mL
							Pronamide	100 ug/mL
							Quinoline	100 ug/mL
					SMLIST2 S2_00030	1 mL	1,4-Naphthoquinone	100 ug/mL
							7,12-Dimethylbenz(a)anthracene	100 ug/mL
							Chlorobenzilate	100 ug/mL
							Dinoseb	100 ug/mL
							Ethyl methanesulfonate	100 ug/mL
							Hexachloropropene	100 ug/mL
							Isodrin	100 ug/mL
							Isosafrole Peak 1	16 ug/mL
							Isosafrole Peak 2	84 ug/mL
							Methyl methanesulfonate	100 ug/mL
							Pentachlorobenzene	100 ug/mL
							Pentachloroethane	100 ug/mL
					SMLIST2 S3_00028	1 mL	3-Methylcholanthrene	200 ug/mL
							6-Methylchrysene	200 ug/mL
					SMLIST2 S4_00020	1 mL	Aramite Peak 1	48 ug/mL
							Aramite Peak 2	52 ug/mL
							Diallate Peak 1	74 ug/mL
							Diallate Peak 2	26 ug/mL
							Dimethoate	100 ug/mL
							Disulfoton	100 ug/mL
							Ethyl Parathion	100 ug/mL
							Famphur	100 ug/mL
							Methyl parathion	100 ug/mL
							o,o',o''-Triethylphosphorothioate	100 ug/mL
							Phorate	100 ug/mL
							Safrole, Total	100 ug/mL
							Sulfotepp	100 ug/mL
							Thionazin	100 ug/mL
					SMLIST2 S5_00018	1 mL	Methapyrilene	200 ug/mL
..SMLIST2 S1_00026	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
							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

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							alpha,alpha-Dimethyl phenethylamine	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
							o-Toluidine	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
..SMLIST2 S2_00030	01/31/24		Restek, Lot A0193498		(Purchased Reagent)		1,4-Naphthoquinone	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
							Pentachloroethane	1000 ug/mL
..SMLIST2 S3_00028	01/31/24		Restek, Lot A0193475		(Purchased Reagent)		3-Methylcholanthrene	2000 ug/mL
							6-Methylchrysene	2000 ug/mL
..SMLIST2 S4_00020	01/31/25		Restek, Lot A0193163		(Purchased Reagent)		Aramite Peak 1	480 ug/mL
							Aramite Peak 2	520 ug/mL
							Diallate Peak 1	740 ug/mL
							Diallate Peak 2	260 ug/mL
							Dimethoate	1000 ug/mL
							Disulfoton	1000 ug/mL
							Ethyl Parathion	1000 ug/mL
							Famphur	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
..SMLIST2 S5_00018	01/31/25		Restek, Lot A0193415		(Purchased Reagent)		Methapyrilene	2000 ug/mL
SMLIST2 L5 W_00030	07/30/23	03/15/23	MECL2, Lot 22F0162005	2 mL	SMIS80PPMW_00027	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST2 STOCK_00035	100 uL	1,3,5-Trinitrobenzene	5 ug/mL
							1,4-Dinitrobenzene	5 ug/mL
							1-Naphthylamine	5 ug/mL
							2-Acetylaminofluorene	5 ug/mL
							2-Naphthylamine	5 ug/mL
							2-Picoline	5 ug/mL
							3,3'-Dimethylbenzidine	5 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	5 ug/mL
							4-Aminobiphenyl	5 ug/mL
							4-Nitroquinoline-1-oxide	5 ug/mL
							alpha,alpha-Dimethyl phenethylamine	5 ug/mL
							Dibenz[a,h]acridine	5 ug/mL
							N-Nitro-o-toluidine	5 ug/mL
							N-Nitrosodi-n-butylamine	5 ug/mL
							N-Nitrosodiethylamine	5 ug/mL
							N-Nitrosomethylethylamine	5 ug/mL
							N-Nitrosomorpholine	5 ug/mL
							N-Nitrosopiperidine	5 ug/mL
							N-Nitrosopyrrolidine	5 ug/mL
							o-Toluidine	5 ug/mL
							p-Dimethylamino azobenzene	5 ug/mL
							p-Phenylene diamine	5 ug/mL
							Pentachloronitrobenzene	5 ug/mL
							Phenacetin	5 ug/mL
							Pronamide	5 ug/mL
							Quinoline	5 ug/mL
							1,4-Naphthoquinone	5 ug/mL
							7,12-Dimethylbenz(a)anthracene	5 ug/mL
							Chlorobenzilate	5 ug/mL
							Dinoseb	5 ug/mL
							Ethyl methanesulfonate	5 ug/mL
							Hexachloropropene	5 ug/mL
							Isodrin	5 ug/mL
							Isosafrole Peak 1	0.8 ug/mL
							Isosafrole Peak 2	4.2 ug/mL
							Methyl methanesulfonate	5 ug/mL
							Pentachlorobenzene	5 ug/mL
							Pentachloroethane	5 ug/mL
							3-Methylcholanthrene	10 ug/mL
							6-Methylchrysene	10 ug/mL
							Aramite Peak 1	2.4 ug/mL

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Aramite Peak 2	2.6 ug/mL
							Diallate Peak 1	3.7 ug/mL
							Diallate Peak 2	1.3 ug/mL
							Dimethoate	5 ug/mL
							Disulfoton	5 ug/mL
							Ethyl Parathion	5 ug/mL
							Famphur	5 ug/mL
							Methyl parathion	5 ug/mL
							o,o',o''-Triethylphosphorothioate	5 ug/mL
							Phorate	5 ug/mL
							Safrole, Total	5 ug/mL
							Sulfotepp	5 ug/mL
							Thionazin	5 ug/mL
							Methapyrilene	10 ug/mL
.SMIS80PPMW_00027	10/31/23	10/06/22	MECL2, Lot 22F0162005	40 mL	SMIS R_00017	1.6 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00017	07/31/27	Restek, Lot A0187296			(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
.SMLIST2 STOCK_00035	07/30/23	03/15/23	MECL2, Lot 22F0162005	10 mL	SMLIST2 S1_00026	1 mL	1,3,5-Trinitrobenzene	100 ug/mL
							1,4-Dinitrobenzene	100 ug/mL
							1-Naphthylamine	100 ug/mL
							2-Acetylaminofluorene	100 ug/mL
							2-Naphthylamine	100 ug/mL
							2-Picoline	100 ug/mL
							3,3'-Dimethylbenzidine	100 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	100 ug/mL
							4-Aminobiphenyl	100 ug/mL
							4-Nitroquinoline-1-oxide	100 ug/mL
							alpha,alpha-Dimethyl phenethylamine	100 ug/mL
							Dibenz[a,h]acridine	100 ug/mL
							N-Nitro-o-toluidine	100 ug/mL
							N-Nitrosodi-n-butylamine	100 ug/mL
							N-Nitrosodiethylamine	100 ug/mL
							N-Nitrosomethylethylamine	100 ug/mL
							N-Nitrosomorpholine	100 ug/mL
							N-Nitrosopiperidine	100 ug/mL
							N-Nitrosopyrrolidine	100 ug/mL

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							o-Toluidine	100 ug/mL
							p-Dimethylamino azobenzene	100 ug/mL
							p-Phenylene diamine	100 ug/mL
							Pentachloronitrobenzene	100 ug/mL
							Phenacetin	100 ug/mL
							Pronamide	100 ug/mL
							Quinoline	100 ug/mL
					SMLIST2 S2_00030	1 mL	1,4-Naphthoquinone	100 ug/mL
							7,12-Dimethylbenz(a)anthracene	100 ug/mL
							Chlorobenzilate	100 ug/mL
							Dinoseb	100 ug/mL
							Ethyl methanesulfonate	100 ug/mL
							Hexachloropropene	100 ug/mL
							Isodrin	100 ug/mL
							Isosafrole Peak 1	16 ug/mL
							Isosafrole Peak 2	84 ug/mL
							Methyl methanesulfonate	100 ug/mL
							Pentachlorobenzene	100 ug/mL
							Pentachloroethane	100 ug/mL
					SMLIST2 S3_00028	1 mL	3-Methylcholanthrene	200 ug/mL
							6-Methylchrysene	200 ug/mL
					SMLIST2 S4_00020	1 mL	Aramite Peak 1	48 ug/mL
							Aramite Peak 2	52 ug/mL
							Diallate Peak 1	74 ug/mL
							Diallate Peak 2	26 ug/mL
							Dimethoate	100 ug/mL
							Disulfoton	100 ug/mL
							Ethyl Parathion	100 ug/mL
							Famphur	100 ug/mL
							Methyl parathion	100 ug/mL
							o,o',o''-Triethylphosphorothioate	100 ug/mL
							Phorate	100 ug/mL
							Safrole, Total	100 ug/mL
							Sulfotepp	100 ug/mL
							Thionazin	100 ug/mL
					SMLIST2 S5_00018	1 mL	Methapyrilene	200 ug/mL
..SMLIST2 S1_00026	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
							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

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							alpha,alpha-Dimethyl phenethylamine	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
							o-Toluidine	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
..SMLIST2 S2_00030	01/31/24		Restek, Lot A0193498		(Purchased Reagent)		1,4-Naphthoquinone	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
							Pentachloroethane	1000 ug/mL
..SMLIST2 S3_00028	01/31/24		Restek, Lot A0193475		(Purchased Reagent)		3-Methylcholanthrene	2000 ug/mL
							6-Methylchrysene	2000 ug/mL
..SMLIST2 S4_00020	01/31/25		Restek, Lot A0193163		(Purchased Reagent)		Aramite Peak 1	480 ug/mL
							Aramite Peak 2	520 ug/mL
							Diallate Peak 1	740 ug/mL
							Diallate Peak 2	260 ug/mL
							Dimethoate	1000 ug/mL
							Disulfoton	1000 ug/mL
							Ethyl Parathion	1000 ug/mL
							Famphur	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
..SMLIST2 S5_00018	01/31/25		Restek, Lot A0193415		(Purchased Reagent)		Methapyrilene	2000 ug/mL
SMLIST2 L6 W_00031	07/30/23	03/15/23	MECL2, Lot 22F0162005	2 mL	SMIS80PPMW_00027	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST2 STOCK_00035	200 uL	1,3,5-Trinitrobenzene	10 ug/mL
							1,4-Dinitrobenzene	10 ug/mL
							1-Naphthylamine	10 ug/mL
							2-Acetylaminofluorene	10 ug/mL
							2-Naphthylamine	10 ug/mL
							2-Picoline	10 ug/mL
							3,3'-Dimethylbenzidine	10 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	10 ug/mL
							4-Aminobiphenyl	10 ug/mL
							4-Nitroquinoline-1-oxide	10 ug/mL
							alpha,alpha-Dimethyl phenethylamine	10 ug/mL
							Dibenz[a,h]acridine	10 ug/mL
							N-Nitro-o-toluidine	10 ug/mL
							N-Nitrosodi-n-butylamine	10 ug/mL
							N-Nitrosodiethylamine	10 ug/mL
							N-Nitrosomethylethylamine	10 ug/mL
							N-Nitrosomorpholine	10 ug/mL
							N-Nitrosopiperidine	10 ug/mL
							N-Nitrosopyrrolidine	10 ug/mL
							o-Toluidine	10 ug/mL
							p-Dimethylamino azobenzene	10 ug/mL
							p-Phenylene diamine	10 ug/mL
							Pentachloronitrobenzene	10 ug/mL
							Phenacetin	10 ug/mL
							Pronamide	10 ug/mL
							Quinoline	10 ug/mL
							1,4-Naphthoquinone	10 ug/mL
							7,12-Dimethylbenz(a)anthracene	10 ug/mL
							Chlorobenzilate	10 ug/mL
							Dinoseb	10 ug/mL
							Ethyl methanesulfonate	10 ug/mL
							Hexachloropropene	10 ug/mL
							Isodrin	10 ug/mL
							Isosafrole Peak 1	1.6 ug/mL
							Isosafrole Peak 2	8.4 ug/mL
							Methyl methanesulfonate	10 ug/mL
							Pentachlorobenzene	10 ug/mL
							Pentachloroethane	10 ug/mL
							3-Methylcholanthrene	20 ug/mL
							6-Methylchrysene	20 ug/mL
							Aramite Peak 1	4.8 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Aramite Peak 2	5.2 ug/mL
							Diallate Peak 1	7.4 ug/mL
							Diallate Peak 2	2.6 ug/mL
							Dimethoate	10 ug/mL
							Disulfoton	10 ug/mL
							Ethyl Parathion	10 ug/mL
							Famphur	10 ug/mL
							Methyl parathion	10 ug/mL
							o,o',o''-Triethylphosphorothioate	10 ug/mL
							Phorate	10 ug/mL
							Safrole, Total	10 ug/mL
							Sulfotepp	10 ug/mL
							Thionazin	10 ug/mL
							Methapyrilene	20 ug/mL
.SMIS80PPMW_00027	10/31/23	10/06/22	MECL2, Lot 22F0162005	40 mL	SMIS R_00017	1.6 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00017	07/31/27	Restek, Lot A0187296			(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
.SMLIST2 STOCK_00035	07/30/23	03/15/23	MECL2, Lot 22F0162005	10 mL	SMLIST2 S1_00026	1 mL	1,3,5-Trinitrobenzene	100 ug/mL
							1,4-Dinitrobenzene	100 ug/mL
							1-Naphthylamine	100 ug/mL
							2-Acetylaminofluorene	100 ug/mL
							2-Naphthylamine	100 ug/mL
							2-Picoline	100 ug/mL
							3,3'-Dimethylbenzidine	100 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	100 ug/mL
							4-Aminobiphenyl	100 ug/mL
							4-Nitroquinoline-1-oxide	100 ug/mL
							alpha,alpha-Dimethyl phenethylamine	100 ug/mL
							Dibenz[a,h]acridine	100 ug/mL
							N-Nitro-o-toluidine	100 ug/mL
							N-Nitrosodi-n-butylamine	100 ug/mL
							N-Nitrosodiethylamine	100 ug/mL
							N-Nitrosomethylethylamine	100 ug/mL
							N-Nitrosomorpholine	100 ug/mL
							N-Nitrosopiperidine	100 ug/mL
							N-Nitrosopyrrolidine	100 ug/mL

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							o-Toluidine	100 ug/mL
							p-Dimethylamino azobenzene	100 ug/mL
							p-Phenylene diamine	100 ug/mL
							Pentachloronitrobenzene	100 ug/mL
							Phenacetin	100 ug/mL
							Pronamide	100 ug/mL
							Quinoline	100 ug/mL
					SMLIST2 S2_00030	1 mL	1,4-Naphthoquinone	100 ug/mL
							7,12-Dimethylbenz(a)anthracene	100 ug/mL
							Chlorobenzilate	100 ug/mL
							Dinoseb	100 ug/mL
							Ethyl methanesulfonate	100 ug/mL
							Hexachloropropene	100 ug/mL
							Isodrin	100 ug/mL
							Isosafrole Peak 1	16 ug/mL
							Isosafrole Peak 2	84 ug/mL
							Methyl methanesulfonate	100 ug/mL
							Pentachlorobenzene	100 ug/mL
							Pentachloroethane	100 ug/mL
					SMLIST2 S3_00028	1 mL	3-Methylcholanthrene	200 ug/mL
							6-Methylchrysene	200 ug/mL
					SMLIST2 S4_00020	1 mL	Aramite Peak 1	48 ug/mL
							Aramite Peak 2	52 ug/mL
							Diallate Peak 1	74 ug/mL
							Diallate Peak 2	26 ug/mL
							Dimethoate	100 ug/mL
							Disulfoton	100 ug/mL
							Ethyl Parathion	100 ug/mL
							Famphur	100 ug/mL
							Methyl parathion	100 ug/mL
							o,o',o''-Triethylphosphorothioate	100 ug/mL
							Phorate	100 ug/mL
							Safrole, Total	100 ug/mL
							Sulfotepp	100 ug/mL
							Thionazin	100 ug/mL
					SMLIST2 S5_00018	1 mL	Methapyrilene	200 ug/mL
..SMLIST2 S1_00026	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
							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

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							alpha,alpha-Dimethyl phenethylamine	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
							o-Toluidine	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
..SMLIST2 S2_00030	01/31/24		Restek, Lot A0193498		(Purchased Reagent)		1,4-Naphthoquinone	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
							Pentachloroethane	1000 ug/mL
..SMLIST2 S3_00028	01/31/24		Restek, Lot A0193475		(Purchased Reagent)		3-Methylcholanthrene	2000 ug/mL
							6-Methylchrysene	2000 ug/mL
..SMLIST2 S4_00020	01/31/25		Restek, Lot A0193163		(Purchased Reagent)		Aramite Peak 1	480 ug/mL
							Aramite Peak 2	520 ug/mL
							Diallate Peak 1	740 ug/mL
							Diallate Peak 2	260 ug/mL
							Dimethoate	1000 ug/mL
							Disulfoton	1000 ug/mL
							Ethyl Parathion	1000 ug/mL
							Famphur	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
..SMLIST2 S5_00018	01/31/25		Restek, Lot A0193415		(Purchased Reagent)		Methapyrilene	2000 ug/mL
SMLIST2 L6 W_00032	09/30/23	07/31/23	MECL2, Lot 22F0162005	2 mL	SMIS80PPMW_00027	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
.SMIS80PPMW_00027	10/31/23	10/06/22	MECL2, Lot 22F0162005	40 mL	SMIS R_00017	1.6 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00017	07/31/27		Restek, Lot A0187296		(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
SMLIST2 L6 W_00032	09/30/23	07/31/23	MECL2, Lot 22F0162005	2 mL	SMLIST2 STOCK_00035	200 uL	1,3,5-Trinitrobenzene	10 ug/mL
							1-Naphthylamine	10 ug/mL
							2-Acetylaminofluorene	10 ug/mL
							2-Naphthylamine	10 ug/mL
							2-Picoline	10 ug/mL
							3,3'-Dimethylbenzidine	10 ug/mL
							4-Aminobiphenyl	10 ug/mL
							4-Nitroquinoline-1-oxide	10 ug/mL
							N-Nitro-o-toluidine	10 ug/mL
							N-Nitrosodi-n-butylamine	10 ug/mL
							N-Nitrosomethylethylamine	10 ug/mL
							N-Nitrosopyrrolidine	10 ug/mL
							o-Toluidine	10 ug/mL
							p-Dimethylamino azobenzene	10 ug/mL
							p-Phenylene diamine	10 ug/mL
							1,4-Naphthoquinone	10 ug/mL
							7,12-Dimethylbenz(a)anthracene	10 ug/mL
							Chlorobenzilate	10 ug/mL
							Methyl methanesulfonate	10 ug/mL
							3-Methylcholanthrene	20 ug/mL
							Aramite, Total	10 ug/mL
							Disulfoton	10 ug/mL
							Ethyl Parathion	10 ug/mL
							Famphur	10 ug/mL
							Methyl parathion	10 ug/mL
							Methapyrilene	20 ug/mL
.SMLIST2 STOCK_00035	07/30/23	03/15/23	MECL2, Lot 22F0162005	10 mL	SMLIST2 S1_00026	1 mL	1,3,5-Trinitrobenzene	100 ug/mL
							1-Naphthylamine	100 ug/mL
							2-Acetylaminofluorene	100 ug/mL
							2-Naphthylamine	100 ug/mL
							2-Picoline	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3,3'-Dimethylbenzidine	100 ug/mL
							4-Aminobiphenyl	100 ug/mL
							4-Nitroquinoline-1-oxide	100 ug/mL
							N-Nitro-o-toluidine	100 ug/mL
							N-Nitrosodi-n-butylamine	100 ug/mL
							N-Nitrosomethylethylamine	100 ug/mL
							N-Nitrosopyrrolidine	100 ug/mL
							o-Toluidine	100 ug/mL
							p-Dimethylamino azobenzene	100 ug/mL
							p-Phenylene diamine	100 ug/mL
					SMLIST2 S2_00030	1 mL	1,4-Naphthoquinone	100 ug/mL
							7,12-Dimethylbenz(a)anthracene	100 ug/mL
							Chlorobenzilate	100 ug/mL
							Methyl methanesulfonate	100 ug/mL
					SMLIST2 S3_00028	1 mL	3-Methylcholanthrene	200 ug/mL
					SMLIST2 S4_00020	1 mL	Aramite, Total	100 ug/mL
							Disulfoton	100 ug/mL
							Ethyl Parathion	100 ug/mL
							Famphur	100 ug/mL
							Methyl parathion	100 ug/mL
					SMLIST2 S5_00018	1 mL	Methapyrilene	200 ug/mL
..SMLIST2 S1_00026	07/31/23		Restek, Lot A0187679		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1-Naphthylamine	1000 ug/mL
							2-Acetylaminofluorene	1000 ug/mL
							2-Naphthylamine	1000 ug/mL
							2-Picoline	1000 ug/mL
							3,3'-Dimethylbenzidine	1000 ug/mL
							4-Aminobiphenyl	1000 ug/mL
							4-Nitroquinoline-1-oxide	1000 ug/mL
							N-Nitro-o-toluidine	1000 ug/mL
							N-Nitrosodi-n-butylamine	1000 ug/mL
							N-Nitrosomethylethylamine	1000 ug/mL
							N-Nitrosopyrrolidine	1000 ug/mL
							o-Toluidine	1000 ug/mL
							p-Dimethylamino azobenzene	1000 ug/mL
							p-Phenylene diamine	1000 ug/mL
..SMLIST2 S2_00030	01/31/24		Restek, Lot A0193498		(Purchased Reagent)		1,4-Naphthoquinone	1000 ug/mL
							7,12-Dimethylbenz(a)anthracene	1000 ug/mL
							Chlorobenzilate	1000 ug/mL
							Methyl methanesulfonate	1000 ug/mL
..SMLIST2 S3_00028	01/31/24		Restek, Lot A0193475		(Purchased Reagent)		3-Methylcholanthrene	2000 ug/mL
..SMLIST2 S4_00020	01/31/25		Restek, Lot A0193163		(Purchased Reagent)		Aramite, Total	1000 ug/mL
							Disulfoton	1000 ug/mL
							Ethyl Parathion	1000 ug/mL
							Famphur	1000 ug/mL
							Methyl parathion	1000 ug/mL
..SMLIST2 S5_00018	01/31/25		Restek, Lot A0193415		(Purchased Reagent)		Methapyrilene	2000 ug/mL

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
SMLIST2 L7 W_00030	07/30/23	03/15/23	MECL2, Lot 22F0162005	2 mL	SMIS80PPMW_00027	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST2 STOCK_00035	300 uL	1,3,5-Trinitrobenzene	15 ug/mL
							1,4-Dinitrobenzene	15 ug/mL
							1-Naphthylamine	15 ug/mL
							2-Acetylaminofluorene	15 ug/mL
							2-Naphthylamine	15 ug/mL
							2-Picoline	15 ug/mL
							3,3'-Dimethylbenzidine	15 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	15 ug/mL
							4-Aminobiphenyl	15 ug/mL
							4-Nitroquinoline-1-oxide	15 ug/mL
							alpha,alpha-Dimethyl phenethylamine	15 ug/mL
							Dibenz[a,h]acridine	15 ug/mL
							N-Nitro-o-toluidine	15 ug/mL
							N-Nitrosodi-n-butylamine	15 ug/mL
							N-Nitrosodiethylamine	15 ug/mL
							N-Nitrosomethylethylamine	15 ug/mL
							N-Nitrosomorpholine	15 ug/mL
							N-Nitrosopiperidine	15 ug/mL
							N-Nitrosopyrrolidine	15 ug/mL
							o-Toluidine	15 ug/mL
							p-Dimethylamino azobenzene	15 ug/mL
							p-Phenylene diamine	15 ug/mL
							Pentachloronitrobenzene	15 ug/mL
							Phenacetin	15 ug/mL
							Pronamide	15 ug/mL
							Quinoline	15 ug/mL
							1,4-Naphthoquinone	15 ug/mL
							7,12-Dimethylbenz(a)anthracene	15 ug/mL
							Chlorobenzilate	15 ug/mL
							Dinoseb	15 ug/mL
							Ethyl methanesulfonate	15 ug/mL
							Hexachloropropene	15 ug/mL
							Isodrin	15 ug/mL
							Isosafrole Peak 1	2.4 ug/mL
							Isosafrole Peak 2	12.6 ug/mL
							Methyl methanesulfonate	15 ug/mL
							Pentachlorobenzene	15 ug/mL
							Pentachloroethane	15 ug/mL
							3-Methylcholanthrene	30 ug/mL
							6-Methylchrysene	30 ug/mL

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Aramite Peak 1	7.2 ug/mL
							Aramite Peak 2	7.8 ug/mL
							Diallate Peak 1	11.1 ug/mL
							Diallate Peak 2	3.9 ug/mL
							Dimethoate	15 ug/mL
							Disulfoton	15 ug/mL
							Ethyl Parathion	15 ug/mL
							Famphur	15 ug/mL
							Methyl parathion	15 ug/mL
							o,o',o''-Triethylphosphorothioate	15 ug/mL
							Phorate	15 ug/mL
							Safrole, Total	15 ug/mL
							Sulfotepp	15 ug/mL
							Thionazin	15 ug/mL
							Methapyrilene	30 ug/mL
.SMIS80PPMW_00027	10/31/23	10/06/22	MECL2, Lot 22F0162005	40 mL	SMIS R_00017	1.6 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00017	07/31/27		Restek, Lot A0187296		(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
.SMLIST2 STOCK_00035	07/30/23	03/15/23	MECL2, Lot 22F0162005	10 mL	SMLIST2 S1_00026	1 mL	1,3,5-Trinitrobenzene	100 ug/mL
							1,4-Dinitrobenzene	100 ug/mL
							1-Naphthylamine	100 ug/mL
							2-Acetylaminofluorene	100 ug/mL
							2-Naphthylamine	100 ug/mL
							2-Picoline	100 ug/mL
							3,3'-Dimethylbenzidine	100 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	100 ug/mL
							4-Aminobiphenyl	100 ug/mL
							4-Nitroquinoline-1-oxide	100 ug/mL
							alpha,alpha-Dimethyl phenethylamine	100 ug/mL
							Dibenz[a,h]acridine	100 ug/mL
							N-Nitro-o-toluidine	100 ug/mL
							N-Nitrosodi-n-butylamine	100 ug/mL
							N-Nitrosodiethylamine	100 ug/mL
							N-Nitrosomethylethylamine	100 ug/mL
							N-Nitrosomorpholine	100 ug/mL
							N-Nitrosopiperidine	100 ug/mL

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosopyrrolidine	100 ug/mL
							o-Toluidine	100 ug/mL
							p-Dimethylamino azobenzene	100 ug/mL
							p-Phenylene diamine	100 ug/mL
							Pentachloronitrobenzene	100 ug/mL
							Phenacetin	100 ug/mL
							Pronamide	100 ug/mL
							Quinoline	100 ug/mL
					SMLIST2 S2_00030	1 mL	1,4-Naphthoquinone	100 ug/mL
							7,12-Dimethylbenz(a)anthracene	100 ug/mL
							Chlorobenzilate	100 ug/mL
							Dinoseb	100 ug/mL
							Ethyl methanesulfonate	100 ug/mL
							Hexachloropropene	100 ug/mL
							Isodrin	100 ug/mL
							Isosafrole Peak 1	16 ug/mL
							Isosafrole Peak 2	84 ug/mL
							Methyl methanesulfonate	100 ug/mL
							Pentachlorobenzene	100 ug/mL
							Pentachloroethane	100 ug/mL
					SMLIST2 S3_00028	1 mL	3-Methylcholanthrene	200 ug/mL
							6-Methylchrysene	200 ug/mL
					SMLIST2 S4_00020	1 mL	Aramite Peak 1	48 ug/mL
							Aramite Peak 2	52 ug/mL
							Diallate Peak 1	74 ug/mL
							Diallate Peak 2	26 ug/mL
							Dimethoate	100 ug/mL
							Disulfoton	100 ug/mL
							Ethyl Parathion	100 ug/mL
							Famphur	100 ug/mL
							Methyl parathion	100 ug/mL
							o,o',o''-Triethylphosphorothioate	100 ug/mL
							Phorate	100 ug/mL
							Safrole, Total	100 ug/mL
							Sulfotepp	100 ug/mL
							Thionazin	100 ug/mL
					SMLIST2 S5_00018	1 mL	Methapyrilene	200 ug/mL
..SMLIST2 S1_00026	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
							3,3'-Dimethylbenzidine	1000 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	1000 ug/mL
							4-Aminobiphenyl	1000 ug/mL

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Nitroquinoline-1-oxide	1000 ug/mL
							alpha,alpha-Dimethyl phenethylamine	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
							o-Toluidine	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
..SMLIST2 S2_00030	01/31/24		Restek, Lot A0193498		(Purchased Reagent)		1,4-Naphthoquinone	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
							Pentachloroethane	1000 ug/mL
..SMLIST2 S3_00028	01/31/24		Restek, Lot A0193475		(Purchased Reagent)		3-Methylcholanthrene	2000 ug/mL
							6-Methylchrysene	2000 ug/mL
..SMLIST2 S4_00020	01/31/25		Restek, Lot A0193163		(Purchased Reagent)		Aramite Peak 1	480 ug/mL
							Aramite Peak 2	520 ug/mL
							Diallate Peak 1	740 ug/mL
							Diallate Peak 2	260 ug/mL
							Dimethoate	1000 ug/mL
							Disulfoton	1000 ug/mL
							Ethyl Parathion	1000 ug/mL
							Famphur	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
..SMLIST2 S5_00018	01/31/25		Restek, Lot A0193415		(Purchased Reagent)		Methapyrilene	2000 ug/mL

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
SMLIST2 L8 W_00030	07/30/23	03/15/23	MECL2, Lot 22F0162005	2 mL	SMIS80PPMW_00027	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST2 STOCK_00035	400 uL	1,3,5-Trinitrobenzene	20 ug/mL
							1,4-Dinitrobenzene	20 ug/mL
							1-Naphthylamine	20 ug/mL
							2-Acetylaminofluorene	20 ug/mL
							2-Naphthylamine	20 ug/mL
							2-Picoline	20 ug/mL
							3,3'-Dimethylbenzidine	20 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	20 ug/mL
							4-Aminobiphenyl	20 ug/mL
							4-Nitroquinoline-1-oxide	20 ug/mL
							alpha,alpha-Dimethyl phenethylamine	20 ug/mL
							Dibenz[a,h]acridine	20 ug/mL
							N-Nitro-o-toluidine	20 ug/mL
							N-Nitrosodi-n-butylamine	20 ug/mL
							N-Nitrosodiethylamine	20 ug/mL
							N-Nitrosomethylethylamine	20 ug/mL
							N-Nitrosomorpholine	20 ug/mL
							N-Nitrosopiperidine	20 ug/mL
							N-Nitrosopyrrolidine	20 ug/mL
							o-Toluidine	20 ug/mL
							p-Dimethylamino azobenzene	20 ug/mL
							p-Phenylene diamine	20 ug/mL
							Pentachloronitrobenzene	20 ug/mL
							Phenacetin	20 ug/mL
							Pronamide	20 ug/mL
							Quinoline	20 ug/mL
							1,4-Naphthoquinone	20 ug/mL
							7,12-Dimethylbenz(a)anthracene	20 ug/mL
							Chlorobenzilate	20 ug/mL
							Dinoseb	20 ug/mL
							Ethyl methanesulfonate	20 ug/mL
							Hexachloropropene	20 ug/mL
							Isodrin	20 ug/mL
							Isosafrole Peak 1	3.2 ug/mL
							Isosafrole Peak 2	16.8 ug/mL
							Methyl methanesulfonate	20 ug/mL
							Pentachlorobenzene	20 ug/mL
							Pentachloroethane	20 ug/mL
							3-Methylcholanthrene	40 ug/mL
							6-Methylchrysene	40 ug/mL

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Aramite Peak 1	9.6 ug/mL
							Aramite Peak 2	10.4 ug/mL
							Diallate Peak 1	14.8 ug/mL
							Diallate Peak 2	5.2 ug/mL
							Dimethoate	20 ug/mL
							Disulfoton	20 ug/mL
							Ethyl Parathion	20 ug/mL
							Famphur	20 ug/mL
							Methyl parathion	20 ug/mL
							o,o',o''-Triethylphosphorothioate	20 ug/mL
							Phorate	20 ug/mL
							Safrole, Total	20 ug/mL
							Sulfotepp	20 ug/mL
							Thionazin	20 ug/mL
							Methapyrilene	40 ug/mL
.SMIS80PPMW_00027	10/31/23	10/06/22	MECL2, Lot 22F0162005	40 mL	SMIS R_00017	1.6 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00017	07/31/27	Restek, Lot A0187296			(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
.SMLIST2 STOCK_00035	07/30/23	03/15/23	MECL2, Lot 22F0162005	10 mL	SMLIST2 S1_00026	1 mL	1,3,5-Trinitrobenzene	100 ug/mL
							1,4-Dinitrobenzene	100 ug/mL
							1-Naphthylamine	100 ug/mL
							2-Acetylaminofluorene	100 ug/mL
							2-Naphthylamine	100 ug/mL
							2-Picoline	100 ug/mL
							3,3'-Dimethylbenzidine	100 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	100 ug/mL
							4-Aminobiphenyl	100 ug/mL
							4-Nitroquinoline-1-oxide	100 ug/mL
							alpha,alpha-Dimethyl phenethylamine	100 ug/mL
							Dibenz[a,h]acridine	100 ug/mL
							N-Nitro-o-toluidine	100 ug/mL
							N-Nitrosodi-n-butylamine	100 ug/mL
							N-Nitrosodiethylamine	100 ug/mL
							N-Nitrosomethylethylamine	100 ug/mL
							N-Nitrosomorpholine	100 ug/mL
							N-Nitrosopiperidine	100 ug/mL

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosopyrrolidine	100 ug/mL
							o-Toluidine	100 ug/mL
							p-Dimethylamino azobenzene	100 ug/mL
							p-Phenylene diamine	100 ug/mL
							Pentachloronitrobenzene	100 ug/mL
							Phenacetin	100 ug/mL
							Pronamide	100 ug/mL
							Quinoline	100 ug/mL
					SMLIST2 S2_00030	1 mL	1,4-Naphthoquinone	100 ug/mL
							7,12-Dimethylbenz(a)anthracene	100 ug/mL
							Chlorobenzilate	100 ug/mL
							Dinoseb	100 ug/mL
							Ethyl methanesulfonate	100 ug/mL
							Hexachloropropene	100 ug/mL
							Isodrin	100 ug/mL
							Isosafrole Peak 1	16 ug/mL
							Isosafrole Peak 2	84 ug/mL
							Methyl methanesulfonate	100 ug/mL
							Pentachlorobenzene	100 ug/mL
							Pentachloroethane	100 ug/mL
					SMLIST2 S3_00028	1 mL	3-Methylcholanthrene	200 ug/mL
							6-Methylchrysene	200 ug/mL
					SMLIST2 S4_00020	1 mL	Aramite Peak 1	48 ug/mL
							Aramite Peak 2	52 ug/mL
							Diallate Peak 1	74 ug/mL
							Diallate Peak 2	26 ug/mL
							Dimethoate	100 ug/mL
							Disulfoton	100 ug/mL
							Ethyl Parathion	100 ug/mL
							Famphur	100 ug/mL
							Methyl parathion	100 ug/mL
							o,o',o''-Triethylphosphorothioate	100 ug/mL
							Phorate	100 ug/mL
							Safrole, Total	100 ug/mL
							Sulfotepp	100 ug/mL
							Thionazin	100 ug/mL
					SMLIST2 S5_00018	1 mL	Methapyrilene	200 ug/mL
..SMLIST2 S1_00026	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
							3,3'-Dimethylbenzidine	1000 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	1000 ug/mL
							4-Aminobiphenyl	1000 ug/mL

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Nitroquinoline-1-oxide	1000 ug/mL
							alpha,alpha-Dimethyl phenethylamine	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
							o-Toluidine	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
..SMLIST2 S2_00030	01/31/24		Restek, Lot A0193498		(Purchased Reagent)		1,4-Naphthoquinone	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
							Pentachloroethane	1000 ug/mL
..SMLIST2 S3_00028	01/31/24		Restek, Lot A0193475		(Purchased Reagent)		3-Methylcholanthrene	2000 ug/mL
							6-Methylchrysene	2000 ug/mL
..SMLIST2 S4_00020	01/31/25		Restek, Lot A0193163		(Purchased Reagent)		Aramite Peak 1	480 ug/mL
							Aramite Peak 2	520 ug/mL
							Diallate Peak 1	740 ug/mL
							Diallate Peak 2	260 ug/mL
							Dimethoate	1000 ug/mL
							Disulfoton	1000 ug/mL
							Ethyl Parathion	1000 ug/mL
							Famphur	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
..SMLIST2 S5_00018	01/31/25		Restek, Lot A0193415		(Purchased Reagent)		Methapyrilene	2000 ug/mL

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
SMLIST2 L9 W_00030	07/30/23	03/15/23	MECL2, Lot 22F0162005	2 mL	SMIS80PPMW_00027	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST2 STOCK_00035	500 uL	1,3,5-Trinitrobenzene	25 ug/mL
							1,4-Dinitrobenzene	25 ug/mL
							1-Naphthylamine	25 ug/mL
							2-Acetylaminofluorene	25 ug/mL
							2-Naphthylamine	25 ug/mL
							2-Picoline	25 ug/mL
							3,3'-Dimethylbenzidine	25 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	25 ug/mL
							4-Aminobiphenyl	25 ug/mL
							4-Nitroquinoline-1-oxide	25 ug/mL
							alpha,alpha-Dimethyl phenethylamine	25 ug/mL
							Dibenz[a,h]acridine	25 ug/mL
							N-Nitro-o-toluidine	25 ug/mL
							N-Nitrosodi-n-butylamine	25 ug/mL
							N-Nitrosodiethylamine	25 ug/mL
							N-Nitrosomethylethylamine	25 ug/mL
							N-Nitrosomorpholine	25 ug/mL
							N-Nitrosopiperidine	25 ug/mL
							N-Nitrosopyrrolidine	25 ug/mL
							o-Toluidine	25 ug/mL
							p-Dimethylamino azobenzene	25 ug/mL
							p-Phenylene diamine	25 ug/mL
							Pentachloronitrobenzene	25 ug/mL
							Phenacetin	25 ug/mL
							Pronamide	25 ug/mL
							Quinoline	25 ug/mL
							1,4-Naphthoquinone	25 ug/mL
							7,12-Dimethylbenz(a)anthracene	25 ug/mL
							Chlorobenzilate	25 ug/mL
							Dinoseb	25 ug/mL
							Ethyl methanesulfonate	25 ug/mL
							Hexachloropropene	25 ug/mL
							Isodrin	25 ug/mL
							Isosafrole Peak 1	4 ug/mL
							Isosafrole Peak 2	21 ug/mL
							Methyl methanesulfonate	25 ug/mL
							Pentachlorobenzene	25 ug/mL
							Pentachloroethane	25 ug/mL
							3-Methylcholanthrene	50 ug/mL
							6-Methylchrysene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Aramite Peak 1	12 ug/mL
							Aramite Peak 2	13 ug/mL
							Diallate Peak 1	18.5 ug/mL
							Diallate Peak 2	6.5 ug/mL
							Dimethoate	25 ug/mL
							Disulfoton	25 ug/mL
							Ethyl Parathion	25 ug/mL
							Famphur	25 ug/mL
							Methyl parathion	25 ug/mL
							o,o',o''-Triethylphosphorothioate	25 ug/mL
							Phorate	25 ug/mL
							Safrole, Total	25 ug/mL
							Sulfotepp	25 ug/mL
							Thionazin	25 ug/mL
							Methapyrilene	50 ug/mL
.SMIS80PPMW_00027	10/31/23	10/06/22	MECL2, Lot 22F0162005	40 mL	SMIS R_00017	1.6 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00017	07/31/27	Restek, Lot A0187296			(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
.SMLIST2 STOCK_00035	07/30/23	03/15/23	MECL2, Lot 22F0162005	10 mL	SMLIST2 S1_00026	1 mL	1,3,5-Trinitrobenzene	100 ug/mL
							1,4-Dinitrobenzene	100 ug/mL
							1-Naphthylamine	100 ug/mL
							2-Acetylaminofluorene	100 ug/mL
							2-Naphthylamine	100 ug/mL
							2-Picoline	100 ug/mL
							3,3'-Dimethylbenzidine	100 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	100 ug/mL
							4-Aminobiphenyl	100 ug/mL
							4-Nitroquinoline-1-oxide	100 ug/mL
							alpha,alpha-Dimethyl phenethylamine	100 ug/mL
							Dibenz[a,h]acridine	100 ug/mL
							N-Nitro-o-toluidine	100 ug/mL
							N-Nitrosodi-n-butylamine	100 ug/mL
							N-Nitrosodiethylamine	100 ug/mL
							N-Nitrosomethylethylamine	100 ug/mL
							N-Nitrosomorpholine	100 ug/mL
							N-Nitrosopiperidine	100 ug/mL

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosopyrrolidine	100 ug/mL
							o-Toluidine	100 ug/mL
							p-Dimethylamino azobenzene	100 ug/mL
							p-Phenylene diamine	100 ug/mL
							Pentachloronitrobenzene	100 ug/mL
							Phenacetin	100 ug/mL
							Pronamide	100 ug/mL
							Quinoline	100 ug/mL
					SMLIST2 S2_00030	1 mL	1,4-Naphthoquinone	100 ug/mL
							7,12-Dimethylbenz(a)anthracene	100 ug/mL
							Chlorobenzilate	100 ug/mL
							Dinoseb	100 ug/mL
							Ethyl methanesulfonate	100 ug/mL
							Hexachloropropene	100 ug/mL
							Isodrin	100 ug/mL
							Isosafrole Peak 1	16 ug/mL
							Isosafrole Peak 2	84 ug/mL
							Methyl methanesulfonate	100 ug/mL
							Pentachlorobenzene	100 ug/mL
							Pentachloroethane	100 ug/mL
					SMLIST2 S3_00028	1 mL	3-Methylcholanthrene	200 ug/mL
							6-Methylchrysene	200 ug/mL
					SMLIST2 S4_00020	1 mL	Aramite Peak 1	48 ug/mL
							Aramite Peak 2	52 ug/mL
							Diallate Peak 1	74 ug/mL
							Diallate Peak 2	26 ug/mL
							Dimethoate	100 ug/mL
							Disulfoton	100 ug/mL
							Ethyl Parathion	100 ug/mL
							Famphur	100 ug/mL
							Methyl parathion	100 ug/mL
							o,o',o''-Triethylphosphorothioate	100 ug/mL
							Phorate	100 ug/mL
							Safrole, Total	100 ug/mL
							Sulfotepp	100 ug/mL
							Thionazin	100 ug/mL
					SMLIST2 S5_00018	1 mL	Methapyrilene	200 ug/mL
..SMLIST2 S1_00026	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
							3,3'-Dimethylbenzidine	1000 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	1000 ug/mL
							4-Aminobiphenyl	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Nitroquinoline-1-oxide	1000 ug/mL
							alpha,alpha-Dimethyl phenethylamine	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
							o-Toluidine	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
..SMLIST2 S2_00030	01/31/24		Restek, Lot A0193498		(Purchased Reagent)		1,4-Naphthoquinone	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
							Pentachloroethane	1000 ug/mL
..SMLIST2 S3_00028	01/31/24		Restek, Lot A0193475		(Purchased Reagent)		3-Methylcholanthrene	2000 ug/mL
							6-Methylchrysene	2000 ug/mL
..SMLIST2 S4_00020	01/31/25		Restek, Lot A0193163		(Purchased Reagent)		Aramite Peak 1	480 ug/mL
							Aramite Peak 2	520 ug/mL
							Diallate Peak 1	740 ug/mL
							Diallate Peak 2	260 ug/mL
							Dimethoate	1000 ug/mL
							Disulfoton	1000 ug/mL
							Ethyl Parathion	1000 ug/mL
							Famphur	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
..SMLIST2 S5_00018	01/31/25		Restek, Lot A0193415		(Purchased Reagent)		Methapyrilene	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
SMLIST2 SS W_00031	11/22/23	07/03/23	MECL2, Lot 6178522	2 mL	SMIS80PPMW_00028	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
.SMIS80PPMW_00028	11/22/23	05/22/23	MECL2, Lot 6178522	40 mL	SMIS R_00018	1.6 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00018	01/31/28		Restek, Lot A0193798		(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
SMLIST2 SS W_00031	11/22/23	07/03/23	MECL2, Lot 6178522	2 mL	SMLIST2 SS ST_00035	200 uL	1,3,5-Trinitrobenzene	10 ug/mL
							1-Naphthylamine	10 ug/mL
							2-Acetylaminofluorene	10 ug/mL
							2-Naphthylamine	10 ug/mL
							2-Picoline	10 ug/mL
							3,3'-Dimethylbenzidine	10 ug/mL
							4-Aminobiphenyl	10 ug/mL
							4-Nitroquinoline-1-oxide	10 ug/mL
							N-Nitro-o-toluidine	10 ug/mL
							N-Nitrosodi-n-butylamine	10 ug/mL
							N-Nitrosomethylethylamine	10 ug/mL
							N-Nitrosopyrrolidine	10 ug/mL
							o-Toluidine	10 ug/mL
							p-Dimethylamino azobenzene	10 ug/mL
							p-Phenylene diamine	10 ug/mL
							1,4-Naphthoquinone	10 ug/mL
							7,12-Dimethylbenz(a)anthracene	10 ug/mL
							Chlorobenzilate	10 ug/mL
							Methyl methanesulfonate	10 ug/mL
							3-Methylcholanthrene	20 ug/mL
							Aramite, Total	10 ug/mL
							Disulfoton	10 ug/mL
							Ethyl Parathion	10 ug/mL
							Famphur	10 ug/mL
							Methyl parathion	10 ug/mL
							Methapyrilene	20 ug/mL
.SMLIST2 SS ST_00035	01/03/24	07/03/23	MECL2, Lot 6178522	5 mL	SMLIST2 SS S1_00017	500 uL	1,3,5-Trinitrobenzene	100 ug/mL
							1-Naphthylamine	100 ug/mL
							2-Acetylaminofluorene	100 ug/mL
							2-Naphthylamine	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Picoline	100 ug/mL
							3,3'-Dimethylbenzidine	100 ug/mL
							4-Aminobiphenyl	100 ug/mL
							4-Nitroquinoline-1-oxide	100 ug/mL
							N-Nitro-o-toluidine	100 ug/mL
							N-Nitrosodi-n-butylamine	100 ug/mL
							N-Nitrosomethylethylamine	100 ug/mL
							N-Nitrosopyrrolidine	100 ug/mL
							o-Toluidine	100 ug/mL
							p-Dimethylamino azobenzene	100 ug/mL
							p-Phenylene diamine	100 ug/mL
					SMLIST2 SS S2_00027	500 uL	1,4-Naphthoquinone	100 ug/mL
							7,12-Dimethylbenz(a)anthracene	100 ug/mL
							Chlorobenzilate	100 ug/mL
							Methyl methanesulfonate	100 ug/mL
					SMLIST2 SS S3_00022	500 uL	3-Methylcholanthrene	200 ug/mL
					SMLIST2 SS S4_00016	500 uL	Aramite, Total	100 ug/mL
							Disulfoton	100 ug/mL
							Ethyl Parathion	100 ug/mL
							Famphur	100 ug/mL
							Methyl parathion	100 ug/mL
					SMLIST2 SS S5_00013	500 uL	Methapyrilene	200 ug/mL
..SMLIST2 SS S1_00017	03/31/24		Restek, Lot A0195541		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1-Naphthylamine	1000 ug/mL
							2-Acetylaminofluorene	1000 ug/mL
							2-Naphthylamine	1000 ug/mL
							2-Picoline	1000 ug/mL
							3,3'-Dimethylbenzidine	1000 ug/mL
							4-Aminobiphenyl	1000 ug/mL
							4-Nitroquinoline-1-oxide	1000 ug/mL
							N-Nitro-o-toluidine	1000 ug/mL
							N-Nitrosodi-n-butylamine	1000 ug/mL
							N-Nitrosomethylethylamine	1000 ug/mL
							N-Nitrosopyrrolidine	1000 ug/mL
							o-Toluidine	1000 ug/mL
							p-Dimethylamino azobenzene	1000 ug/mL
							p-Phenylene diamine	1000 ug/mL
..SMLIST2 SS S2_00027	01/31/24		Restek, Lot A0194106		(Purchased Reagent)		1,4-Naphthoquinone	1000 ug/mL
							7,12-Dimethylbenz(a)anthracene	1000 ug/mL
							Chlorobenzilate	1000 ug/mL
							Methyl methanesulfonate	1000 ug/mL
..SMLIST2 SS S3_00022	02/29/24		Restek, Lot A0194830		(Purchased Reagent)		3-Methylcholanthrene	2000 ug/mL
..SMLIST2 SS S4_00016	05/31/25		Restek, Lot A0198147		(Purchased Reagent)		Aramite, Total	1000 ug/mL
							Disulfoton	1000 ug/mL
							Ethyl Parathion	1000 ug/mL
							Famphur	1000 ug/mL
							Methyl parathion	1000 ug/mL
..SMLIST2 SS S5_00013	04/30/24		Restek, Lot A0183881		(Purchased Reagent)		Methapyrilene	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
vm125UX21_IS_00050	09/20/23	06/20/23	MEOH, Lot +2504522C286201028	10 mL	VM568718_00026	5 mL	1,4-Dichlorobenzene-d4	125 ug/mL
							Chlorobenzene-d5	125 ug/mL
							Fluorobenzene	125 ug/mL
.VM568718_00026	01/31/28		restek, Lot A0193519		(Purchased Reagent)		1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5	250 ug/mL
							Fluorobenzene	250 ug/mL
vm125UX21_SS_00007	09/16/23	03/16/23	MEOH, Lot +2504522C286201028	100 mL	VM567650_00036	5 mL	1,2-Dichloroethane-d4 (Surr)	125 ug/mL
							4-Bromofluorobenzene (Surr)	125 ug/mL
							Dibromofluoromethane (Surr)	125 ug/mL
							Toluene-d8 (Surr)	125 ug/mL
.VM567650_00036	01/31/25		Restek, Lot A0156891		(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
vm125UX21_SS_00008	02/24/24	07/24/23	MEOH, Lot +2504522C286201028	100 mL	VM567650_00036	5 mL	1,2-Dichloroethane-d4 (Surr)	125 ug/mL
							4-Bromofluorobenzene (Surr)	125 ug/mL
							Dibromofluoromethane (Surr)	125 ug/mL
							Toluene-d8 (Surr)	125 ug/mL
.VM567650_00036	01/31/25		Restek, Lot A0156891		(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
VMAROLISTDW_00495	08/07/23	07/31/23	MEOH, Lot na	5 mL	VMACROLSTD_00120	5 mL	Acrolein	250 ug/mL
.VMACROLSTD_00120	08/08/23	07/08/23	MEOH, Lot 22C2862010	20 mL	VM568720_00043	0.25 mL	Acrolein	250 ug/mL
..VM568720_00043	08/31/23		restek, Lot A0182162		(Purchased Reagent)		Acrolein	20000 ug/mL
VMAROLISTDW_00496	08/15/23	08/08/23	MEOH, Lot na	5 mL	VMACROLSTD_00121	5 mL	Acrolein	250 ug/mL
.VMACROLSTD_00121	08/31/23	08/08/23	MEOH, Lot 22C2862010	20 mL	VM568720_00043	0.25 mL	Acrolein	250 ug/mL
..VM568720_00043	08/31/23		restek, Lot A0182162		(Purchased Reagent)		Acrolein	20000 ug/mL
vmbfb_00032							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							Tentatively Identified Compound	
							Total BTEX	
							Trihalomethanes, Total	
							Xylenes, Total	
					vm30026_00004	1 mL	BFB	50 ug/mL
.vm30026_00004	02/28/27		restek, Lot A0181998		(Purchased Reagent)		BFB	2000 ug/mL
VMFASAW_00474	08/04/23	07/28/23	MEOH, Lot NA	5 mL	VMFASA_00080	5 mL	Acrolein	250 ug/mL
.VMFASA_00080	08/31/23	05/01/23	MEOH, Lot 22C2862010	100 mL	VM568720S_00042	1.25 mL	Acrolein	250 ug/mL
..VM568720S_00042	08/31/23		restek, Lot A0181935		(Purchased Reagent)		Acrolein	20000 ug/mL
VMFASAW_00475	08/12/23	08/05/23	MEOH, Lot NA	5 mL	VMFASA_00080	5 mL	Acrolein	250 ug/mL
.VMFASA_00080	08/31/23	05/01/23	MEOH, Lot 22C2862010	100 mL	VM568720S_00042	1.25 mL	Acrolein	250 ug/mL
..VM568720S_00042	08/31/23		restek, Lot A0181935		(Purchased Reagent)		Acrolein	20000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
VMFASPW_00503	08/07/23	07/31/23	MEOH, Lot n/a	5 mL	VMRFASP_00086	5 mL	trans-1,4-Dichloro-2-butene	50 ug/mL
.VMRFASP_00086	01/01/24	07/01/23	MEOH, Lot 22C2862010	100 mL	VM571992S_00009	2 mL	trans-1,4-Dichloro-2-butene	50 ug/mL
..VM571992S_00009	08/31/25		Restek, Lot A0195252		(Purchased Reagent)		trans-1,4-Dichloro-2-butene	2500 ug/mL
VMFASPW_00504	08/15/23	08/08/23	MEOH, Lot n/a	5 mL	VMRFASP_00086	5 mL	trans-1,4-Dichloro-2-butene	50 ug/mL
.VMRFASP_00086	01/01/24	07/01/23	MEOH, Lot 22C2862010	100 mL	VM571992S_00009	2 mL	trans-1,4-Dichloro-2-butene	50 ug/mL
..VM571992S_00009	08/31/25		Restek, Lot A0195252		(Purchased Reagent)		trans-1,4-Dichloro-2-butene	2500 ug/mL
VMRGAS_00487	08/07/23	08/02/23	MEOH, Lot +H4799077022J	10 mL	vm569722_00026	0.2 mL	Bromomethane	50 ug/mL
							Butadiene	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Dichlorofluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.vm569722_00026	08/31/25		Restek, Lot A0189184		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VMRPRIMW_00542	08/07/23	07/31/23	MEOH, Lot NA	5 mL	VMRPRIM_00063	5 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	100 ug/mL
							Vinyl acetate	50 ug/mL
							1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	500 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorobromomethane	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromomethane	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
.VMRPRIM_00063	01/01/24	07/01/23	MEOH, Lot 22C2862010	100 mL	VM569721_00008	0.8 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VM569723_00010	4 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM569724_00028	1 mL	Vinyl acetate	50 ug/mL
					VM571992_00006	2 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	500 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorobromomethane	50 ug/mL
							Chlorodibromomethane	50 ug/mL

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromomethane	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
..VM569721_00008	06/30/25		Restek, Lot A0186508		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
..VM569723_00010	09/30/24		restek, Lot A0176827		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
..VM569724_00028	01/31/24		Restek, Lot A0187365		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
..VM571992_00006	09/30/24		Restek, Lot A0183568		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
VMRPRIMW_00543	08/15/23	08/08/23	MEOH, Lot NA	5 mL	VMRPRIM_00063	5 mL	trans-1,4-Dichloro-2-butene	50 ug/mL
.VMRPRIM_00063	01/01/24	07/01/23	MEOH, Lot 22C2862010	100 mL	VM571992_00006	2 mL	trans-1,4-Dichloro-2-butene	50 ug/mL
..VM571992_00006	09/30/24	Restek, Lot A0183568			(Purchased Reagent)		trans-1,4-Dichloro-2-butene	2500 ug/mL

Reagent

exLIST1_S1_00031

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 571995 **Lot No.:** A0190414

Description : 8270 List 1 / Std #1 MegaMix (2017)

8270 List 1 / Std #1 MegaMix (2017) 500-2000 µg/mL, Methylene chloride, 5mL/ampul

6105978
ID: exLIST1_S1_00031
Exp:04/30/24 Prpd:BMB Opn:01/24/23
8270 List 1/Std #1 MegaMi

Container Size : 10 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2024 **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 (Lot SHBN3770) **Purity** 99%	1,003.3 µg/mL	+/- 5.8469 µg/mL +/- 12.0005 µg/mL +/- 19.0922 µg/mL	Gravimetric Unstressed Stressed
2	N-Nitrosodimethylamine **CAS #** 62-75-9 (Lot 220624JLM) **Purity** 99%	1,006.7 µg/mL	+/- 5.8664 µg/mL +/- 12.0403 µg/mL +/- 19.1557 µg/mL	Gravimetric Unstressed Stressed
3	Pyridine **CAS #** 110-86-1 (Lot SHBN7324) **Purity** 99%	2,011.7 µg/mL	+/- 11.6960 µg/mL +/- 24.0476 µg/mL +/- 38.2714 µg/mL	Gravimetric Unstressed Stressed
4	Phenol **CAS #** 108-95-2 (Lot MKCK1120) **Purity** 99%	1,006.3 µg/mL	+/- 5.8644 µg/mL +/- 12.0364 µg/mL +/- 19.1493 µg/mL	Gravimetric Unstressed Stressed
5	Aniline **CAS #** 62-53-3 (Lot X22F726) **Purity** 99%	1,004.7 µg/mL	+/- 5.8547 µg/mL +/- 12.0164 µg/mL +/- 19.1176 µg/mL	Gravimetric Unstressed Stressed
6	Bis(2-chloroethyl)ether **CAS #** 111-44-4 (Lot SHBL6942) **Purity** 99%	1,004.0 µg/mL	+/- 5.8508 µg/mL +/- 12.0084 µg/mL +/- 19.1049 µg/mL	Gravimetric Unstressed Stressed
7	n-Decane (C10) **CAS #** 124-18-5 (Lot SHBN8619) **Purity** 99%	1,007.2 µg/mL	+/- 5.8693 µg/mL +/- 12.0463 µg/mL +/- 19.1652 µg/mL	Gravimetric Unstressed Stressed

8	2-Chlorophenol **CAS #** 95-57-8 **Purity** 99%	(Lot STBH7290)	1,005.3	µg/mL	+/- 5.8586 +/- 12.0244 +/- 19.1303	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	1,3-Dichlorobenzene **CAS #** 541-73-1 **Purity** 99%	(Lot BCCD5315)	1,003.0	µg/mL	+/- 5.8450 +/- 11.9965 +/- 19.0859	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	1,4-Dichlorobenzene **CAS #** 106-46-7 **Purity** 99%	(Lot MKBS4401V)	1,005.3	µg/mL	+/- 5.8586 +/- 12.0244 +/- 19.1303	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
11	Benzyl alcohol **CAS #** 100-51-6 **Purity** 99%	(Lot SHBK5943)	1,003.3	µg/mL	+/- 5.8469 +/- 12.0005 +/- 19.0922	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
12	1,2-Dichlorobenzene **CAS #** 95-50-1 **Purity** 99%	(Lot SHBN3835)	1,005.3	µg/mL	+/- 5.8586 +/- 12.0244 +/- 19.1303	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
13	2-Methylphenol (o-cresol) **CAS #** 95-48-7 **Purity** 99%	(Lot SHBN7598)	1,005.2	µg/mL	+/- 5.8576 +/- 12.0224 +/- 19.1271	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
14	2,2'-oxybis(1-chloropropane) **CAS #** 108-60-1 **Purity** 99%	(Lot 12549200)	1,006.7	µg/mL	+/- 5.8664 +/- 12.0403 +/- 19.1557	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
15	Acetophenone **CAS #** 98-86-2 **Purity** 99%	(Lot STBH8205)	1,005.0	µg/mL	+/- 5.8567 +/- 12.0204 +/- 19.1240	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
16	3-Methylphenol (m-cresol) **CAS #** 108-39-4 **Purity** 99%	(Lot STBJ0710)	503.7	µg/mL	+/- 2.9351 +/- 6.0242 +/- 9.5842	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
17	4-Methylphenol (p-cresol) **CAS #** 106-44-5 **Purity** 99%	(Lot SHBN1151)	503.0	µg/mL	+/- 2.9312 +/- 6.0162 +/- 9.5715	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
18	N-Nitroso-di-n-propylamine **CAS #** 621-64-7 **Purity** 99%	(Lot 2D5VJ)	1,002.7	µg/mL	+/- 5.8431 +/- 11.9925 +/- 19.0796	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
19	Hexachloroethane **CAS #** 67-72-1 **Purity** 99%	(Lot QTORH)	1,003.3	µg/mL	+/- 5.8469 +/- 12.0005 +/- 19.0922	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
20	Nitrobenzene **CAS #** 98-95-3 **Purity** 99%	(Lot 10224044)	1,005.8	µg/mL	+/- 5.8615 +/- 12.0304 +/- 19.1398	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
21	Isophorone **CAS #** 78-59-1 **Purity** 99%	(Lot MKCC9506)	1,004.3	µg/mL	+/- 5.8528 +/- 12.0124 +/- 19.1113	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
22	2-Nitrophenol **CAS #** 88-75-5 **Purity** 99%	(Lot BCCB2407)	1,003.2	µg/mL	+/- 5.8460 +/- 11.9985 +/- 19.0891	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
23	2,4-Dimethylphenol **CAS #** 105-67-9 **Purity** 99%	(Lot XW5GK)	1,002.8	µg/mL	+/- 5.8440 +/- 11.9945 +/- 19.0827	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

24	Bis(2-chloroethoxy)methane **CAS #** 111-91-1 **Purity** 99%	(Lot 13670200)	1,007.5	µg/mL	+/- 5.8712 +/- 12.0503 +/- 19.1715	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
25	2,4-Dichlorophenol **CAS #** 120-83-2 **Purity** 99%	(Lot BCBZ6787)	1,002.2	µg/mL	+/- 5.8401 +/- 11.9865 +/- 19.0700	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
26	1,2,4-Trichlorobenzene **CAS #** 120-82-1 **Purity** 99%	(Lot SHBM0526)	1,003.7	µg/mL	+/- 5.8489 +/- 12.0045 +/- 19.0986	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
27	Naphthalene **CAS #** 91-20-3 **Purity** 99%	(Lot MKCH0219)	1,003.3	µg/mL	+/- 5.8469 +/- 12.0005 +/- 19.0922	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
28	2,6-Dichlorophenol **CAS #** 87-65-0 **Purity** 99%	(Lot MKCP7682)	1,007.7	µg/mL	+/- 5.8722 +/- 12.0523 +/- 19.1747	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
29	4-Chloroaniline **CAS #** 106-47-8 **Purity** 99%	(Lot H24K)	1,007.7	µg/mL	+/- 5.8722 +/- 12.0523 +/- 19.1747	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
30	Hexachlorobutadiene **CAS #** 87-68-3 **Purity** 99%	(Lot X05J)	1,004.0	µg/mL	+/- 5.8508 +/- 12.0084 +/- 19.1049	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
31	4-Chloro-3-methylphenol **CAS #** 59-50-7 **Purity** 99%	(Lot BCCD4461)	1,002.3	µg/mL	+/- 5.8411 +/- 11.9885 +/- 19.0732	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
32	2-Methylnaphthalene **CAS #** 91-57-6 **Purity** 96%	(Lot STBK0259)	1,009.1	µg/mL	+/- 5.8807 +/- 12.0697 +/- 19.2024	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
33	1-Methylnaphthalene **CAS #** 90-12-0 **Purity** 99%	(Lot 5234.00-3)	1,004.2	µg/mL	+/- 5.8518 +/- 12.0104 +/- 19.1081	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
34	1,2,4,5-Tetrachlorobenzene **CAS #** 95-94-3 **Purity** 99%	(Lot 13278000)	1,007.3	µg/mL	+/- 5.8703 +/- 12.0483 +/- 19.1684	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
35	Hexachlorocyclopentadiene **CAS #** 77-47-4 **Purity** 99%	(Lot 0012019)	1,003.3	µg/mL	+/- 5.8469 +/- 12.0005 +/- 19.0922	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
36	2,4,6-Trichlorophenol **CAS #** 88-06-2 **Purity** 99%	(Lot STBJ5914)	1,004.7	µg/mL	+/- 5.8547 +/- 12.0164 +/- 19.1176	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
37	2,4,5-Trichlorophenol **CAS #** 95-95-4 **Purity** 98%	(Lot FHN01)	1,006.8	µg/mL	+/- 5.8671 +/- 12.0418 +/- 19.1580	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
38	2-Chloronaphthalene **CAS #** 91-58-7 **Purity** 99%	(Lot RPN7O)	1,007.0	µg/mL	+/- 5.8683 +/- 12.0443 +/- 19.1620	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
39	Biphenyl **CAS #** 92-52-4 **Purity** 99%	(Lot MKCL6515)	1,003.7	µg/mL	+/- 5.8489 +/- 12.0045 +/- 19.0986	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

40	2-Nitroaniline **CAS #** 88-74-4 **Purity** 99%	(Lot MKCJ8895)	1,003.7 µg/mL	+/- 5.8489 +/- 12.0045 +/- 19.0986	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
41	Acenaphthylene **CAS #** 208-96-8 **Purity** 96%	(Lot Q24W)	1,004.2 µg/mL	+/- 5.8518 +/- 12.0104 +/- 19.1080	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
42	1,3-Dinitrobenzene **CAS #** 99-65-0 **Purity** 99%	(Lot 1-DXX-24-1)	1,002.7 µg/mL	+/- 5.8431 +/- 11.9925 +/- 19.0796	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
43	Dimethylphthalate **CAS #** 131-11-3 **Purity** 99%	(Lot 10117699)	1,008.0 µg/mL	+/- 5.8741 +/- 12.0563 +/- 19.1811	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
44	2,6-Dinitrotoluene **CAS #** 606-20-2 **Purity** 99%	(Lot BCCG1833)	1,005.3 µg/mL	+/- 5.8586 +/- 12.0244 +/- 19.1303	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
45	3-Nitroaniline **CAS #** 99-09-2 **Purity** 99%	(Lot MKCH5457)	1,008.7 µg/mL	+/- 5.8780 +/- 12.0643 +/- 19.1937	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
46	Acenaphthene **CAS #** 83-32-9 **Purity** 99%	(Lot MKCQ4733)	1,000.0 µg/mL	+/- 5.8275 +/- 11.9606 +/- 19.0288	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
47	2,4-Dinitrophenol **CAS #** 51-28-5 **Purity** 99%	(Lot STBK5145-DR3)	2,016.3 µg/mL	+/- 11.7231 +/- 24.1034 +/- 38.3602	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
48	Dibenzofuran **CAS #** 132-64-9 **Purity** 99%	(Lot MKCN1772)	1,002.0 µg/mL	+/- 5.8392 +/- 11.9845 +/- 19.0669	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
49	4-Nitrophenol **CAS #** 100-02-7 **Purity** 99%	(Lot MKCN1089)	2,007.5 µg/mL	+/- 11.6718 +/- 23.9978 +/- 38.1921	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
50	2,4-Dinitrotoluene **CAS #** 121-14-2 **Purity** 99%	(Lot MKAA0690V)	1,003.8 µg/mL	+/- 5.8499 +/- 12.0065 +/- 19.1018	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
51	2,3,4,6-Tetrachlorophenol **CAS #** 58-90-2 **Purity** 99%	(Lot PR-30126)	1,002.7 µg/mL	+/- 5.8431 +/- 11.9925 +/- 19.0796	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
52	Fluorene **CAS #** 86-73-7 **Purity** 99%	(Lot 094650L18G)	1,006.8 µg/mL	+/- 5.8673 +/- 12.0423 +/- 19.1588	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
53	n-Hexadecane (C16) **CAS #** 544-76-3 **Purity** 98%	(Lot SHBM4146)	1,004.8 µg/mL	+/- 5.8556 +/- 12.0183 +/- 19.1207	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
54	Diethylphthalate **CAS #** 84-66-2 **Purity** 99%	(Lot BCCD3396)	1,008.2 µg/mL	+/- 5.8751 +/- 12.0583 +/- 19.1842	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
55	4-Chlorophenyl phenyl ether **CAS #** 7005-72-3 **Purity** 99%	(Lot MKCQ0984)	1,005.2 µg/mL	+/- 5.8576 +/- 12.0224 +/- 19.1271	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

56	4-Nitroaniline		1,005.5	µg/mL	+/- 5.8596	µg/mL	Gravimetric
	CAS # 100-01-6	(Lot RP220906)			+/- 12.0264	µg/mL	Unstressed
	Purity 99%				+/- 19.1335	µg/mL	Stressed
57	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)		2,012.0	µg/mL	+/- 11.6979	µg/mL	Gravimetric
	CAS # 534-52-1	(Lot RP220915)			+/- 24.0516	µg/mL	Unstressed
	Purity 99%				+/- 38.2777	µg/mL	Stressed
58	Diphenylamine		853.5	µg/mL	+/- 4.9738	µg/mL	Gravimetric
	CAS # 122-39-4	(Lot MKCH1042)			+/- 10.2084	µg/mL	Unstressed
	Purity 99%				+/- 16.2411	µg/mL	Stressed
59	Azobenzene		1,001.8	µg/mL	+/- 5.8382	µg/mL	Gravimetric
	CAS # 103-33-3	(Lot BCCC9136)			+/- 11.9825	µg/mL	Unstressed
	Purity 99%				+/- 19.0637	µg/mL	Stressed
60	4-Bromophenyl phenyl ether		1,007.2	µg/mL	+/- 5.8693	µg/mL	Gravimetric
	CAS # 101-55-3	(Lot STBH6361)			+/- 12.0463	µg/mL	Unstressed
	Purity 99%				+/- 19.1652	µg/mL	Stressed
61	Hexachlorobenzene		1,006.0	µg/mL	+/- 5.8625	µg/mL	Gravimetric
	CAS # 118-74-1	(Lot 13562400)			+/- 12.0324	µg/mL	Unstressed
	Purity 99%				+/- 19.1430	µg/mL	Stressed
62	Pentachlorophenol		2,016.7	µg/mL	+/- 11.7251	µg/mL	Gravimetric
	CAS # 87-86-5	(Lot 211229RSR)			+/- 24.1074	µg/mL	Unstressed
	Purity 99%				+/- 38.3665	µg/mL	Stressed
63	n-Octadecane (C18)		1,007.4	µg/mL	+/- 5.8709	µg/mL	Gravimetric
	CAS # 593-45-3	(Lot UE5NG)			+/- 12.0496	µg/mL	Unstressed
	Purity 98%				+/- 19.1704	µg/mL	Stressed
64	Phenanthrene		1,002.0	µg/mL	+/- 5.8392	µg/mL	Gravimetric
	CAS # 85-01-8	(Lot MKCQ2033)			+/- 11.9845	µg/mL	Unstressed
	Purity 99%				+/- 19.0669	µg/mL	Stressed
65	Anthracene		1,004.2	µg/mL	+/- 5.8518	µg/mL	Gravimetric
	CAS # 120-12-7	(Lot MKCP3968)			+/- 12.0104	µg/mL	Unstressed
	Purity 99%				+/- 19.1081	µg/mL	Stressed
66	Carbazole		1,002.8	µg/mL	+/- 5.8440	µg/mL	Gravimetric
	CAS # 86-74-8	(Lot 13058900)			+/- 11.9945	µg/mL	Unstressed
	Purity 99%				+/- 19.0827	µg/mL	Stressed
67	Di-n-butylphthalate		1,001.2	µg/mL	+/- 5.8343	µg/mL	Gravimetric
	CAS # 84-74-2	(Lot MKCN4337)			+/- 11.9746	µg/mL	Unstressed
	Purity 99%				+/- 19.0510	µg/mL	Stressed
68	Fluoranthene		1,005.8	µg/mL	+/- 5.8615	µg/mL	Gravimetric
	CAS # 206-44-0	(Lot MKCQ4728)			+/- 12.0304	µg/mL	Unstressed
	Purity 99%				+/- 19.1398	µg/mL	Stressed
69	Pyrene		1,006.7	µg/mL	+/- 5.8664	µg/mL	Gravimetric
	CAS # 129-00-0	(Lot BCCG7845)			+/- 12.0403	µg/mL	Unstressed
	Purity 99%				+/- 19.1557	µg/mL	Stressed
70	Benzyl butyl phthalate		1,008.5	µg/mL	+/- 5.8771	µg/mL	Gravimetric
	CAS # 85-68-7	(Lot MKCN9008)			+/- 12.0623	µg/mL	Unstressed
	Purity 99%				+/- 19.1906	µg/mL	Stressed
71	Benz(a)anthracene		1,001.9	µg/mL	+/- 5.8387	µg/mL	Gravimetric
	CAS # 56-55-3	(Lot RP220209)			+/- 11.9836	µg/mL	Unstressed
	Purity 96%				+/- 19.0654	µg/mL	Stressed

72	Chrysene **CAS #** 218-01-9 **Purity** 99%	(Lot 468677L08C)	1,007.0 µg/mL	+/- 5.8683 +/- 12.0443 +/- 19.1620	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
73	Bis(2-ethylhexyl)phthalate **CAS #** 117-81-7 **Purity** 99%	(Lot MKCQ3468)	1,004.7 µg/mL	+/- 5.8547 +/- 12.0164 +/- 19.1176	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
74	Di-n-octyl phthalate **CAS #** 117-84-0 **Purity** 99%	(Lot 13651900)	1,006.5 µg/mL	+/- 5.8654 +/- 12.0383 +/- 19.1525	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
75	Benzo(b)fluoranthene **CAS #** 205-99-2 **Purity** 99%	(Lot 012022B)	1,001.3 µg/mL	+/- 5.8353 +/- 11.9765 +/- 19.0542	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
76	Benzo(k)fluoranthene **CAS #** 207-08-9 **Purity** 99%	(Lot 012022K)	1,005.7 µg/mL	+/- 5.8605 +/- 12.0284 +/- 19.1367	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
77	Benzo(a)pyrene **CAS #** 50-32-8 **Purity** 99%	(Lot Z8BKF)	1,004.7 µg/mL	+/- 5.8547 +/- 12.0164 +/- 19.1176	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
78	Indeno(1,2,3-cd)pyrene **CAS #** 193-39-5 **Purity** 99%	(Lot 8-URV-39-3)	1,002.5 µg/mL	+/- 5.8421 +/- 11.9905 +/- 19.0764	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
79	Dibenz(a,h)anthracene **CAS #** 53-70-3 **Purity** 99%	(Lot ER032211-01)	1,007.3 µg/mL	+/- 5.8703 +/- 12.0483 +/- 19.1684	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
80	Benzo(g,h,i)perylene **CAS #** 191-24-2 **Purity** 98%	(Lot PMEVE)	1,003.4 µg/mL	+/- 5.8471 +/- 12.0008 +/- 19.0927	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
Solvent:	Methylene chloride **CAS #** 75-09-2 **Purity** 99%					

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.
This lot was approved even though the %D for 4,6-DN-2-MP was greater than 10%.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

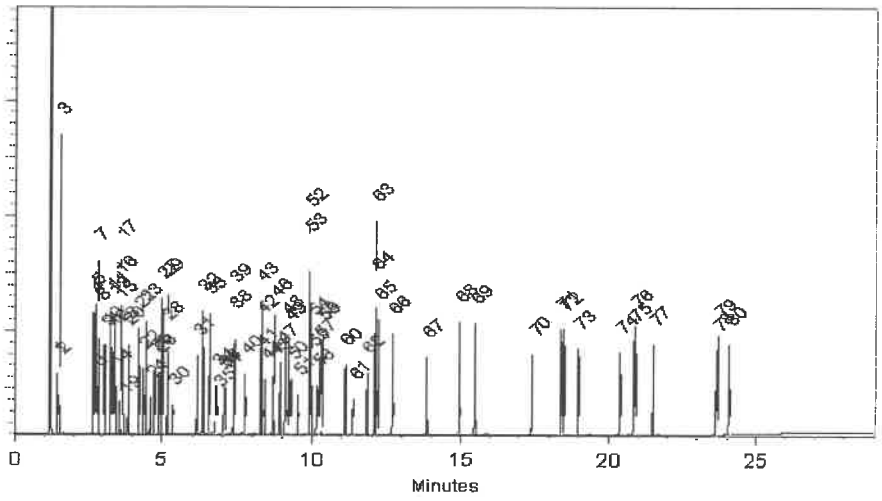
Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

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: 10-Oct-2022 **Balance:** B442140311

Marlina Cowan – Operations Tech II ARM QC

Date Passed: 17-Oct-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

EXLIST1_S10_00022

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 569731 **Lot No.:** A0180656

Description : 8270 List 1 / Std #10

8270 List 1 / Std #10 2000 µg/mL, Methylene chloride, 5mL/ampul

6000825
ID: EXLIST1_S10_00022
Exp:07/01/23 Prpd:BMB Opn:11/07/22
8270 List 1/Standard #10

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 **CAS #** 95-13-6 **Purity** 98% (Lot DMKCB7043-1211)	2,001.4 µg/mL	+/- 11.6361 µg/mL +/- 112.2140 µg/mL +/- 114.8397 µg/mL	Gravimetric Unstressed Stressed
2	Benzoic acid **CAS #** 65-85-0 **Purity** 99% (Lot MKCL7479)	2,000.7 µg/mL	+/- 11.6324 µg/mL +/- 112.1791 µg/mL +/- 114.8040 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)

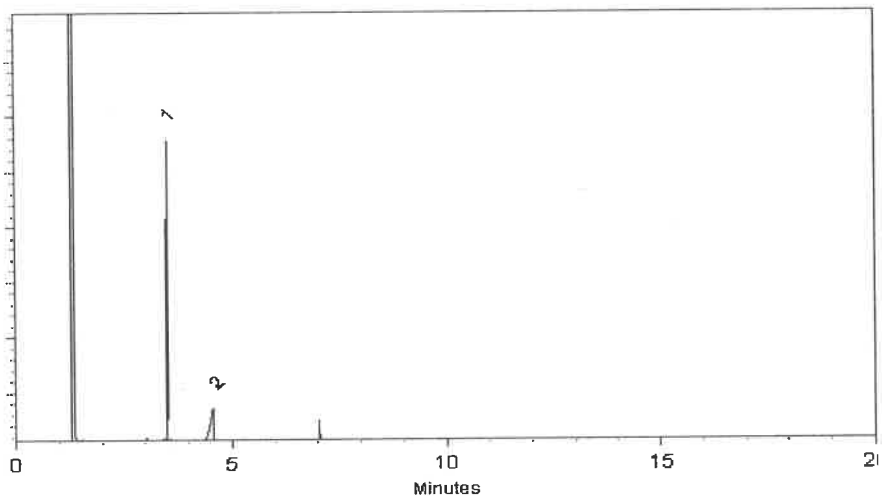
Carrier Gas:
hydrogen-constant pressure 10 psi.

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.

Penelope Riglin - Operations Tech I

Date Mixed: 16-Jan-2022 **Balance:** 1128360905

Clara Windle - Operations Technician I

Date Passed: 18-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

exLIST1_S11_00022

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA 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.:** A0193487

Description : 8270 List 1 / Std #11

8270 List 1 / Std #11 2,000µg/mL, Methylene chloride, 5mL/ampul

6106018
ID: exLIST1_S11_00022
Exp:07/31/24 Prpd:[illegible] Opn:01/24/23
8270 List 1/Standard #11

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : July 31, 2024 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Benzaldehyde	100-52-7	RDA102822RSR	99%	2,000.0 µg/mL	+/- 58.7396
2	epsilon-Caprolactam	105-60-2	I16X016	99%	2,000.3 µg/mL	+/- 58.7469
3	Atrazine	1912-24-9	PI8FG	99%	2,000.3 µg/mL	+/- 58.7494

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

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

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.)

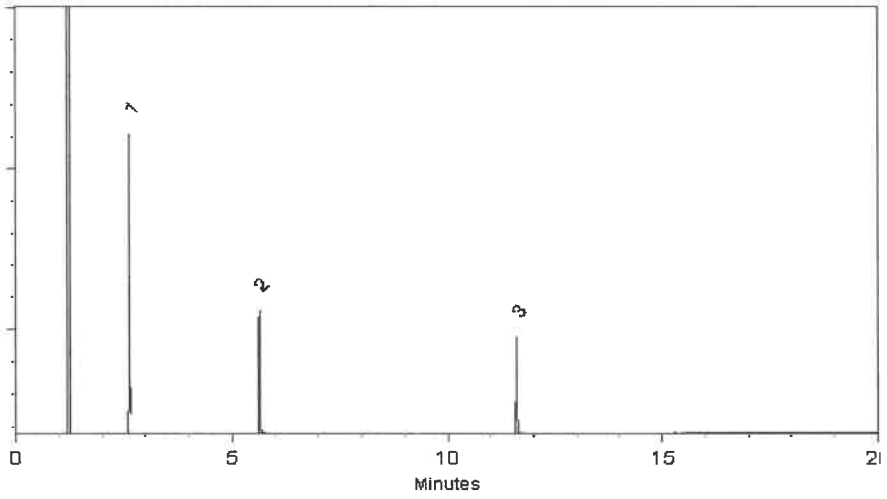
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



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

Russ Bookhamer - Operations Technician I

Date Mixed: 12-Jan-2023 **Balance Serial #** B442140311

Christie Mills - Operations Tech II - ARM QC

Date Passed: 16-Jan-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

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

Reagent

---

exLIST1_S9_00027

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 569730 **Lot No.:** A0181121

Description : 8270 List 1 / Std #9

8270 List 1 / Std #9 2000 µg/mL, Methylene chloride, 5mL/ampul

6000836
ID: exLIST1_S9_00027
Exp:07/31/23 Prpd:BMB Opn:11/07/22
8270 List 1/Std #9

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%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

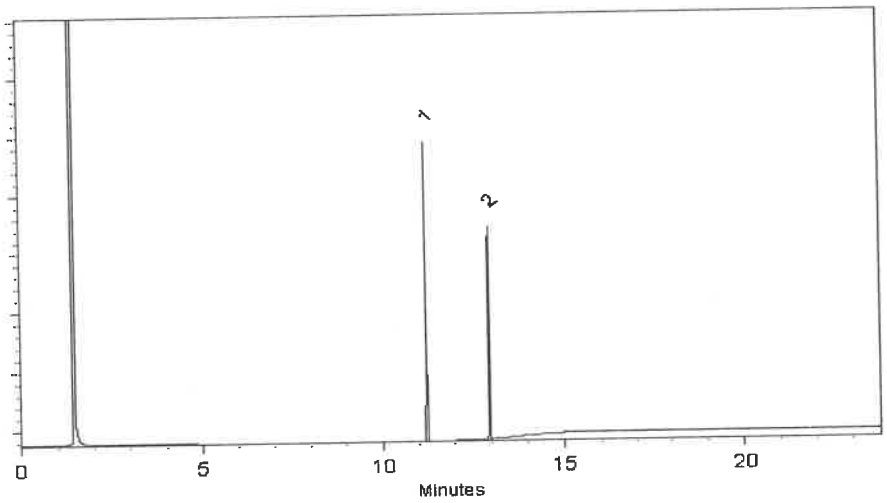
Carrier Gas:
hydrogen-constant pressure 10 psi.

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.

Tom Suckar - Mix Technician

Date Mixed: 27-Jan-2022 **Balance:** 1122030677

Clara Windle - Operations Technician I

Date Passed: 17-Feb-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

exLIST1_SURR_00011

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 567685 **Lot No.:** A0184539

Description : 8270 Surrogate Standard

8270 Surrogate Standard 5,000µg/mL, Methylene chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2027 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

6000821
ID: exLIST1_SURR_00011
Exp:04/30/27 Prpd:BMB Opn:11/07/22
8270 Surrogate Standard

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2-Fluorophenol **CAS #** 367-12-4 **Purity** 99%	(Lot STBJ3299)	5,023.5 µg/mL	+/- 29.2073 µg/mL +/- 146.6035 µg/mL +/- 177.8977 µg/mL		Gravimetric Unstressed Stressed
2	Phenol-d5 **CAS #** 4165-62-2 **Purity** 99%	(Lot GH-100)	5,000.1 µg/mL	+/- 29.0708 µg/mL +/- 145.9187 µg/mL +/- 177.0667 µg/mL		Gravimetric Unstressed Stressed
3	Nitrobenzene-d5 **CAS #** 4165-60-0 **Purity** 99%	(Lot PR-29940A)	5,012.6 µg/mL	+/- 29.1437 µg/mL +/- 146.2845 µg/mL +/- 177.5106 µg/mL		Gravimetric Unstressed Stressed
4	2-Fluorobiphenyl **CAS #** 321-60-8 **Purity** 99%	(Lot 00021384)	5,004.9 µg/mL	+/- 29.0991 µg/mL +/- 146.0607 µg/mL +/- 177.2391 µg/mL		Gravimetric Unstressed Stressed
5	2,4,6-Tribromophenol **CAS #** 118-79-6 **Purity** 99%	(Lot MKCJ7664)	5,009.7 µg/mL	+/- 29.1270 µg/mL +/- 146.2008 µg/mL +/- 177.4091 µg/mL		Gravimetric Unstressed Stressed
6	p-Terphenyl-d14 **CAS #** 1718-51-0 **Purity** 99%	(Lot PR-30504)	5,005.8 µg/mL	+/- 29.1042 µg/mL +/- 146.0860 µg/mL +/- 177.2698 µg/mL		Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

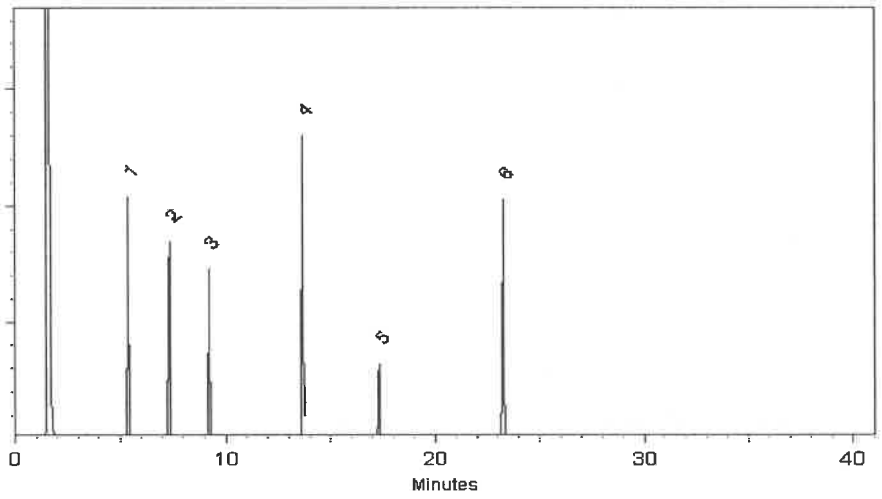
Carrier Gas:
hydrogen-constant pressure 10 psi.

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.

Nick Yaw - Operations Tech I

Date Mixed: 26-Apr-2022 **Balance:** 1128360905

Peng-Yun Lo - QC Analyst

Date Passed: 29-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

exLIST2_S1_00012

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 570667 **Lot No.:** A0188198

Description : 8270 Supplemental Standard #1

8270 Supplemental Standard #1 1,000µg/mL, Methylene chloride, 1mL/ampul
Also described as 8270 List 2 / Std #1

6106023
ID: exLIST2_S1_00012
Exp:08/31/23 Prpd:SMB Opn:01/24/23
8270 List 2 / Std #1 (Sup

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

Expiration Date : August 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%	1,002.0 µg/mL	+/- 5.9516 µg/mL +/- 12.0397 µg/mL +/- 19.1016 µg/mL	Gravimetric Unstressed Stressed
2	N-Nitrosomethylethylamine **CAS #** 10595-95-6 (Lot 12688600) **Purity** 99%	1,006.7 µg/mL	+/- 5.9793 µg/mL +/- 12.0958 µg/mL +/- 19.1906 µg/mL	Gravimetric Unstressed Stressed
3	Acrylamide **CAS #** 79-06-1 (Lot 01402JA) **Purity** 99%	1,008.7 µg/mL	+/- 5.9912 µg/mL +/- 12.1198 µg/mL +/- 19.2287 µg/mL	Gravimetric Unstressed Stressed
4	N-Nitrosodiethylamine **CAS #** 55-18-5 (Lot UT2EJ) **Purity** 99%	1,008.0 µg/mL	+/- 5.9872 µg/mL +/- 12.1118 µg/mL +/- 19.2160 µg/mL	Gravimetric Unstressed Stressed
5	N-Nitrosopyrrolidine **CAS #** 930-55-2 (Lot 21-JPO-19-1) **Purity** 99%	1,010.0 µg/mL	+/- 5.9991 µg/mL +/- 12.1358 µg/mL +/- 19.2541 µg/mL	Gravimetric Unstressed Stressed
6	o-Toluidine **CAS #** 95-53-4 (Lot 03417PZ) **Purity** 99%	1,006.0 µg/mL	+/- 5.9753 µg/mL +/- 12.0878 µg/mL +/- 19.1779 µg/mL	Gravimetric Unstressed Stressed
7	N-Nitrosomorpholine **CAS #** 59-89-2 (Lot GOJNI) **Purity** 99%	1,007.3 µg/mL	+/- 5.9833 µg/mL +/- 12.1038 µg/mL +/- 19.2033 µg/mL	Gravimetric Unstressed Stressed

8	N-Nitrosopiperidine		1,003.3	µg/mL	+/-	5.9595	µg/mL	Gravimetric
	CAS # 100-75-4	(Lot 12724500)			+/-	12.0557	µg/mL	Unstressed
	Purity 99%				+/-	19.1270	µg/mL	Stressed
9	Phentermine (a,a-Dimethylphenethylamine)		1,006.8	µg/mL	+/-	5.9800	µg/mL	Gravimetric
	CAS # 122-09-8	(Lot 220713RSR)			+/-	12.0972	µg/mL	Unstressed
	Purity 98%				+/-	19.1929	µg/mL	Stressed
10	Quinoline		1,002.0	µg/mL	+/-	5.9516	µg/mL	Gravimetric
	CAS # 91-22-5	(Lot UU6EC)			+/-	12.0397	µg/mL	Unstressed
	Purity 99%				+/-	19.1016	µg/mL	Stressed
11	N-Nitrosodi-n-butylamine		1,009.3	µg/mL	+/-	5.9951	µg/mL	Gravimetric
	CAS # 924-16-3	(Lot 7BSAG)			+/-	12.1278	µg/mL	Unstressed
	Purity 99%				+/-	19.2414	µg/mL	Stressed
12	1,4-Phenylenediamine		1,004.0	µg/mL	+/-	5.9635	µg/mL	Gravimetric
	CAS # 106-50-3	(Lot 13110400)			+/-	12.0637	µg/mL	Unstressed
	Purity 99%				+/-	19.1397	µg/mL	Stressed
13	1,4-Dinitrobenzene		1,007.3	µg/mL	+/-	5.9833	µg/mL	Gravimetric
	CAS # 100-25-4	(Lot STBF8844V)			+/-	12.1038	µg/mL	Unstressed
	Purity 99%				+/-	19.2033	µg/mL	Stressed
14	1-Naphthylamine (1-aminonaphthalene)		1,008.7	µg/mL	+/-	5.9912	µg/mL	Gravimetric
	CAS # 134-32-7	(Lot R7NAN-IP)			+/-	12.1198	µg/mL	Unstressed
	Purity 99%				+/-	19.2287	µg/mL	Stressed
15	2-Naphthylamine (2-aminonaphthalene)		1,005.3	µg/mL	+/-	5.9714	µg/mL	Gravimetric
	CAS # 91-59-8	(Lot 811345)			+/-	12.0797	µg/mL	Unstressed
	Purity 99%				+/-	19.1651	µg/mL	Stressed
16	5-Nitro-o-toluidine		1,006.0	µg/mL	+/-	5.9753	µg/mL	Gravimetric
	CAS # 99-55-8	(Lot H67GL)			+/-	12.0878	µg/mL	Unstressed
	Purity 99%				+/-	19.1779	µg/mL	Stressed
17	1,3,5-Trinitrobenzene		1,004.7	µg/mL	+/-	5.9674	µg/mL	Gravimetric
	CAS # 99-35-4	(Lot A6TDK)			+/-	12.0717	µg/mL	Unstressed
	Purity 99%				+/-	19.1524	µg/mL	Stressed
18	Phenacetin		1,006.0	µg/mL	+/-	5.9753	µg/mL	Gravimetric
	CAS # 62-44-2	(Lot 88F0225)			+/-	12.0878	µg/mL	Unstressed
	Purity 99%				+/-	19.1779	µg/mL	Stressed
19	4-Aminobiphenyl		1,001.3	µg/mL	+/-	5.9476	µg/mL	Gravimetric
	CAS # 92-67-1	(Lot SLBF0806V)			+/-	12.0317	µg/mL	Unstressed
	Purity 99%				+/-	19.0889	µg/mL	Stressed
20	Propyzamide		1,002.7	µg/mL	+/-	5.9555	µg/mL	Gravimetric
	CAS # 23950-58-5	(Lot 13291100)			+/-	12.0477	µg/mL	Unstressed
	Purity 99%				+/-	19.1143	µg/mL	Stressed
21	Pentachloronitrobenzene (quintozene)		1,003.6	µg/mL	+/-	5.9612	µg/mL	Gravimetric
	CAS # 82-68-8	(Lot 12599700)			+/-	12.0592	µg/mL	Unstressed
	Purity 97%				+/-	19.1326	µg/mL	Stressed
22	4-Nitroquinoline-N-oxide		1,002.9	µg/mL	+/-	5.9567	µg/mL	Gravimetric
	CAS # 56-57-5	(Lot WXBD5722V)			+/-	12.0501	µg/mL	Unstressed
	Purity 98%				+/-	19.1181	µg/mL	Stressed
23	p-Dimethylaminoazobenzene		1,005.5	µg/mL	+/-	5.9722	µg/mL	Gravimetric
	CAS # 60-11-7	(Lot BCBP8840V)			+/-	12.0815	µg/mL	Unstressed
	Purity 98%				+/-	19.1679	µg/mL	Stressed

24	3,3'-Dimethylbenzidine (o-tolidine) **CAS #** 119-93-7 **Purity** 99%	(Lot ELVJM)	1,010.0	µg/mL	+/- 5.9991 +/- 12.1358 +/- 19.2541	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
25	2-Acetylaminofluorene **CAS #** 53-96-3 **Purity** 99%	(Lot WZDQE)	1,004.0	µg/mL	+/- 5.9635 +/- 12.0637 +/- 19.1397	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
26	4,4'-Methylene-bis(2-chloroaniline) **CAS #** 101-14-4 **Purity** 97%	(Lot RP220422)	1,008.2	µg/mL	+/- 5.9881 +/- 12.1136 +/- 19.2189	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
27	Dibenz(a,h)acridine **CAS #** 226-36-8 **Purity** 99%	(Lot 012016)	1,006.7	µg/mL	+/- 5.9793 +/- 12.0958 +/- 19.1906	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)

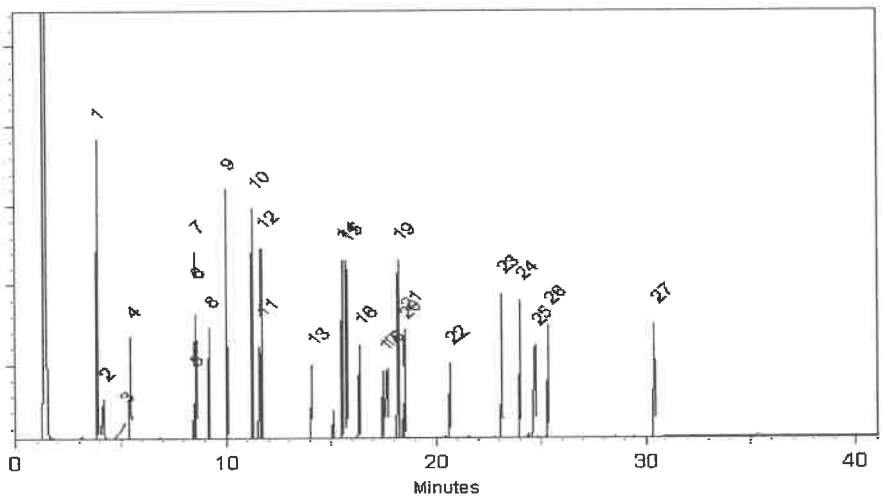
Carrier Gas:
hydrogen-constant pressure 10 psi.

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.

Morgan Craighead - Mix Technician

Date Mixed: 04-Aug-2022 **Balance:** 1128360905

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

---

exLIST2_S2_00014

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA 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. : 569733 **Lot No.:** A0193498

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 : January 31, 2024 **Storage:** -20°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl methanesulfonate	66-27-3	MKCM5645	99%	1,001.3 µg/mL	+/- 22.9875
2	Ethyl methanesulfonate	62-50-0	H6VUB	99%	1,002.7 µg/mL	+/- 23.0181
3	Pentachloroethane	76-01-7	13550700	97%	999.7 µg/mL	+/- 22.9511
4	Hexachloropropene	1888-71-7	44391/3	99%	1,007.3 µg/mL	+/- 23.1253
5	Isosafrole (cis & trans) 16% cis; 84% trans	120-58-1	MKBZ0058V	97%	1,001.7 µg/mL	+/- 22.9956
6	1-Chloronaphthalene	90-13-1	K2OBC	99%	1,000.0 µg/mL	+/- 22.9569
7	1,4-Naphthoquinone	130-15-4	13230700	99%	1,006.0 µg/mL	+/- 23.0947
8	Pentachlorobenzene	608-93-5	MKCD4132	99%	1,006.7 µg/mL	+/- 23.1100
9	2,3,5,6-Tetrachlorophenol	935-95-5	012016	99%	1,005.3 µg/mL	+/- 23.0794
10	Dinoseb	88-85-7	50001	99%	1,000.0 µg/mL	+/- 22.9569
11	Isodrin	465-73-6	13728400	98%	1,000.3 µg/mL	+/- 22.9627
12	Chlorobenzilate	510-15-6	13562500	97%	1,003.6 µg/mL	+/- 23.0402
13	7,12-Dimethylbenz(a)anthracene	57-97-6	QXLNC	99%	1,000.0 µg/mL	+/- 22.9569

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

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

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.)

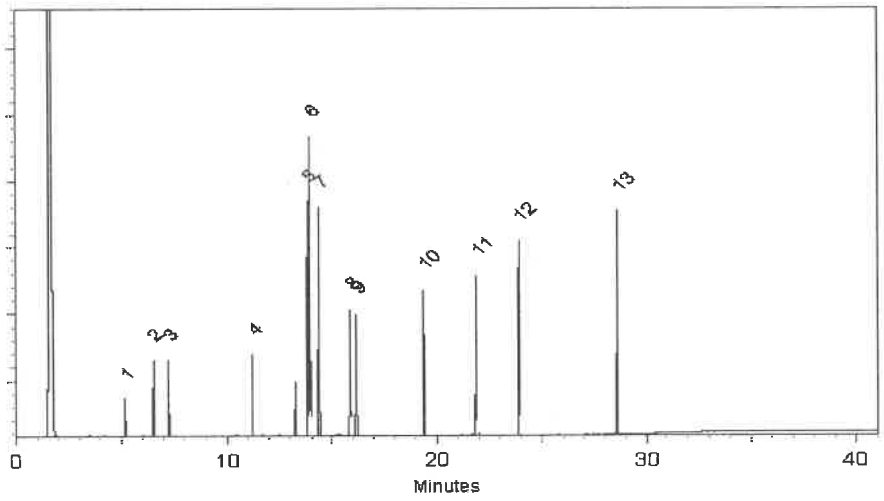
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
0.2µl



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

Russ Bookhamer - Operations Technician I

Date Mixed: 12-Jan-2023 **Balance Serial #** B442140311

Christie Mills - Operations Tech II - ARM QC

Date Passed: 16-Jan-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

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

Reagent

---

exLIST2_S3_00014

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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. : 567680 **Lot No.:** A0184674

Description : 8270 List 2 / Std #3

8270 List 2 / Std #3 2,000µg/mL, Methylene chloride, 1mL/ampul

6105993
ID: exLIST2_S3_00014
Exp:04/30/23 Prpd:EMB Opn:01/24/23
8270 List 2 / Std #3

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)

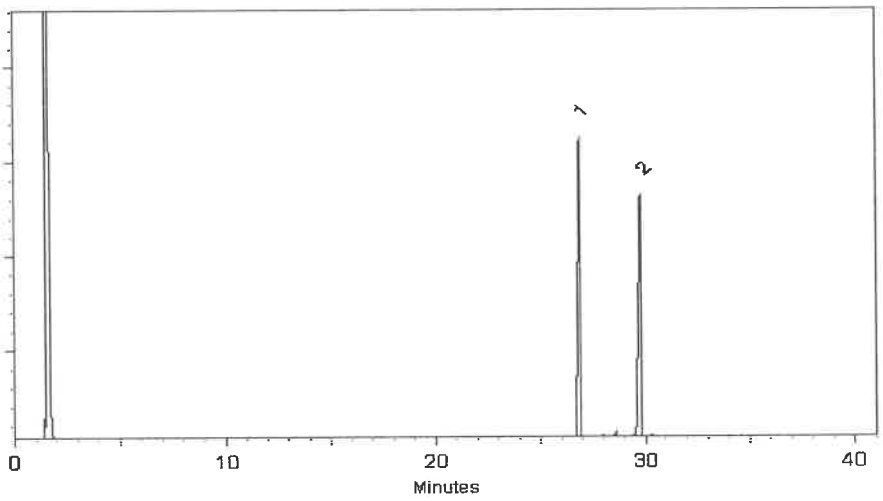
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

---

exLIST2_S4_00008

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 567681 **Lot No.:** A0180903

Description : 8270 List 2 / Std #4

8270 List 2 / Std #4 1,000µg/mL, Methylene chloride, 1mL/ampul

5805781
ID: exLIST2_S4_00008
Exp:01/31/24 Prpd:BMB Opn:07/15/22
8270 LIST 2 / Std #4

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%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

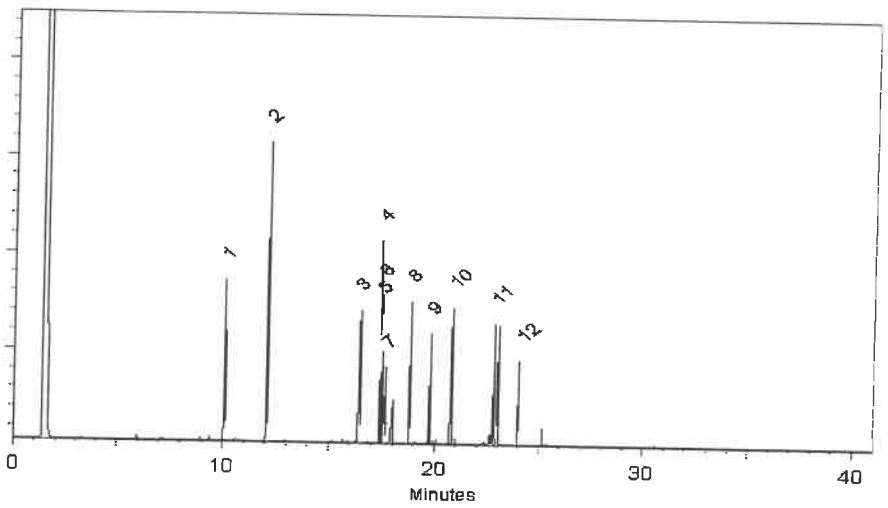
Carrier Gas:
hydrogen-constant pressure 10 psi.

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 Creighead - Mix Technician

Date Mixed: 21-Jan-2022 **Balance:** B442140311

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 31861, which includes complete instructions.

Reagent

exLIST2_S5_00012

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 567682 **Lot No.:** A0176243

Description : 8270 List 2 / Std #5 Methapyrilene

8270 List 2 / Std #5 Methapyrilene 2,000µg/mL, Methylene chloride, 1mL/ampul
*The reported compound masses are for Methapyrilene HCl. Purity is adjusted to correct for the HCl salt. The reported concentration is of Methapyrilene.

5805785
ID: exLIST2_S5_00012
Exp:09/30/23 Prpd:BMB Opn:07/15/22
8270 List 2 / Std #5 Meth

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

Expiration Date : September 30, 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	Methapyrilene hydrochloride	2,003.9 µg/mL	+/- 11.7600	µg/mL	Gravimetric
	CAS # 135-23-9 (Lot 9882000)		+/- 24.0080	µg/mL	Unstressed
	Purity 87%		+/- 38.1571	µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Specific Reference Material Notes:
*The reported compound masses are for Methapyrilene HCl. Purity is adjusted to correct for the HCl salt. The reported concentration is of Methapyrilene, CAS # 91-80-5

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

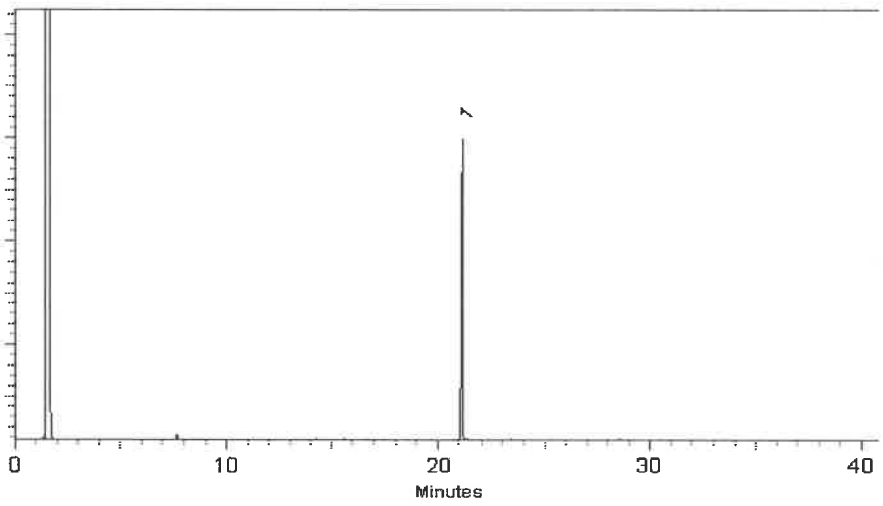
Carrier Gas:
hydrogen-constant pressure 10 psi.

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: 09-Sep-2021 **Balance:** 1128360905

Alexis Shelow - Operations Tech I

Date Passed: 10-Sep-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

SMDFTPPR_00019

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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. : 31615 **Lot No.:** A0187536

Description : GC/MS Tuning Mixture

GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul

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

Expiration Date : July 31, 2025 **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	Pentachlorophenol **CAS #** 87-86-5 (Lot 211229RSR) **Purity** 99%	1,001.6 µg/mL	+/- 5.8779 µg/mL +/- 45.6221 µg/mL +/- 65.8721 µg/mL	Gravimetric Unstressed Stressed
2	DFTPP (Decafluorotriphenylphosphine) **CAS #** 5074-71-5 (Lot Q117-147) **Purity** 95%	1,001.3 µg/mL	+/- 5.8762 µg/mL +/- 45.6084 µg/mL +/- 65.8524 µg/mL	Gravimetric Unstressed Stressed
3	Benzidine **CAS #** 92-87-5 (Lot 220511RSR) **Purity** 99%	1,002.0 µg/mL	+/- 5.8803 µg/mL +/- 45.6403 µg/mL +/- 65.8984 µg/mL	Gravimetric Unstressed Stressed
4	4,4'-DDT **CAS #** 50-29-3 (Lot 220428JLM) **Purity** 98%	1,002.3 µg/mL	+/- 5.8823 µg/mL +/- 45.6560 µg/mL +/- 65.9211 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)

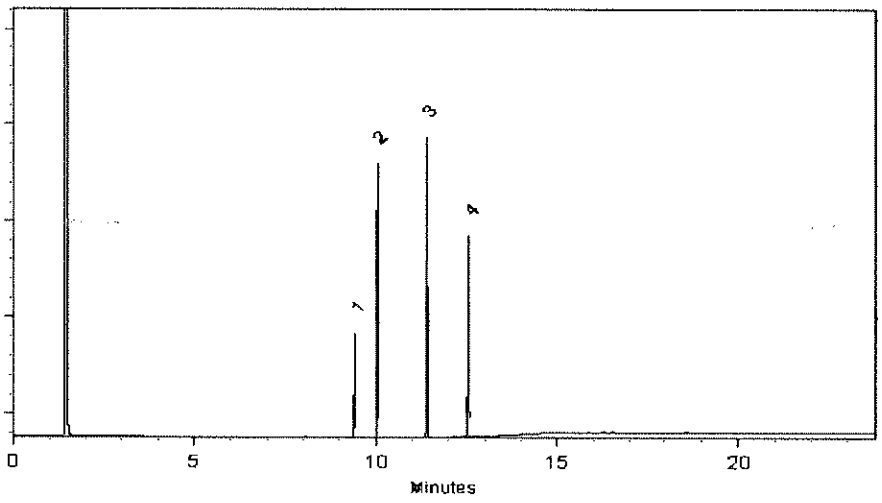
Carrier Gas:
hydrogen-constant pressure 10 psi.

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.

Matt Fragassi - Mix Technician

Date Mixed: 20-Jul-2022 **Balance:** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 25-Jul-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

SMIS R_00017

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 567684 **Lot No.:** A0187296

Description : 8270 Internal Standard

8270 Internal Standard 2,000µg/mL, Methylene chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : July 31, 2027 **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 **CAS #** 3855-82-1 **Purity** 99% (Lot PR-30447)	2,004.4 µg/mL	+/- 11.6535 µg/mL +/- 90.2776 µg/mL +/- 100.1741 µg/mL	Gravimetric Unstressed Stressed
2	Naphthalene-d8 **CAS #** 1146-65-2 **Purity** 99% (Lot M-2180)	2,005.4 µg/mL	+/- 11.6593 µg/mL +/- 90.3226 µg/mL +/- 100.2241 µg/mL	Gravimetric Unstressed Stressed
3	Acenaphthene-d10 **CAS #** 15067-26-2 **Purity** 99% (Lot PR-31822)	2,006.5 µg/mL	+/- 11.6657 µg/mL +/- 90.3717 µg/mL +/- 100.2786 µg/mL	Gravimetric Unstressed Stressed
4	Phenanthrene-d10 **CAS #** 1517-22-2 **Purity** 99% (Lot PR-32303)	2,004.3 µg/mL	+/- 11.6532 µg/mL +/- 90.2753 µg/mL +/- 100.1716 µg/mL	Gravimetric Unstressed Stressed
5	Chrysene-d12 **CAS #** 1719-03-5 **Purity** 99% (Lot PR-32210)	2,004.5 µg/mL	+/- 11.6542 µg/mL +/- 90.2830 µg/mL +/- 100.1801 µg/mL	Gravimetric Unstressed Stressed
6	Perylene-d12 **CAS #** 1520-96-3 **Purity** 99% (Lot PR-33205)	2,006.0 µg/mL	+/- 11.6628 µg/mL +/- 90.3496 µg/mL +/- 100.2541 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)

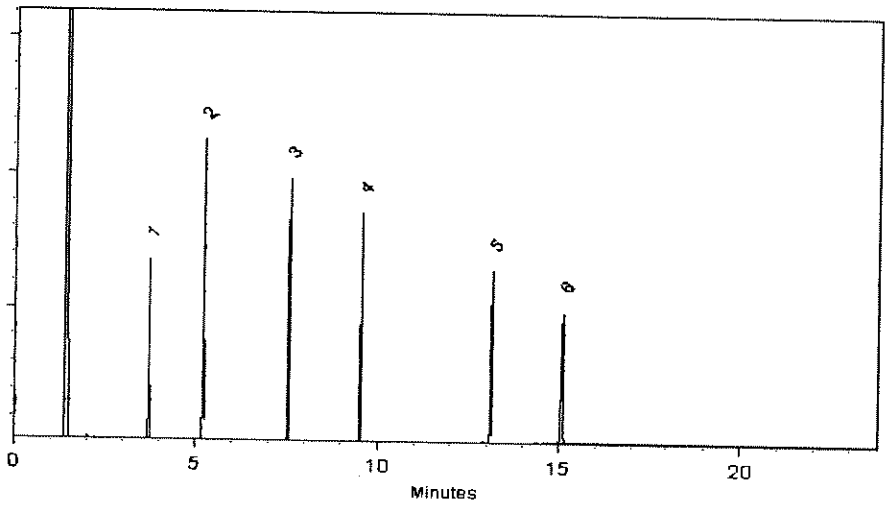
Carrier Gas:
hydrogen-constant pressure 10 psi.

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.

Nick Yaw - Operations Tech I

Date Mixed: 13-Jul-2022 **Balance:** 1128360905

Christie Mills - Operations Tech II - ARM QC

Date Passed: 19-Jul-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

SMIS R_00018

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA 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. : 567684 **Lot No.:** A0193798

Description : 8270 Internal Standard

8270 Internal Standard 2,000µg/mL, Methylene chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2028 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,018.2 µg/mL	+/- 90.9009
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,011.9 µg/mL	+/- 90.6172
3	Acenaphthene-d10	15067-26-2	PR-31822	99%	2,017.4 µg/mL	+/- 90.8649
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,005.1 µg/mL	+/- 90.3087
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,007.3 µg/mL	+/- 90.4077
6	Perylene-d12	1520-96-3	PR-33205	99%	2,016.6 µg/mL	+/- 90.8289

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

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

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.)

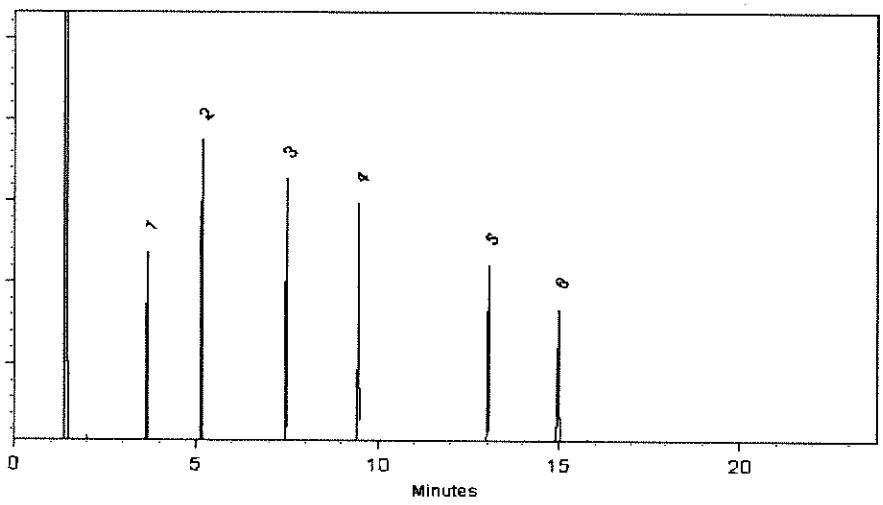
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



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

Morgan Craighead - Mix Technician

Date Mixed: 20-Jan-2023 **Balance Serial #** 1128353505

Christie Mills - Operations Tech II - ARM QC

Date Passed: 24-Jan-2023

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

Reagent

SMLIST1 PAH_00014

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 571995 **Lot No.:** A0195772

Description : 8270 List 1 / Std #1 MegaMix (2017)

8270 List 1 / Std #1 MegaMix (2017) 500-2,000 µg/mL, Methylene chloride, 5mL/ampul

Container Size : 10 mL **Pkg Amt:** > 5 mL

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

Handling: Carcinogen/reproductive toxin, Photosensitive, Sonicate. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	1,005.4 µg/mL	+/- 18.5755
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.2 µg/mL	+/- 18.5718
3	Pyridine	110-86-1	SHBN7324	99%	2,010.1 µg/mL	+/- 37.1374
4	Phenol	108-95-2	MKCK1120	99%	1,005.1 µg/mL	+/- 18.5706
5	Aniline	62-53-3	X22F726	99%	1,005.2 µg/mL	+/- 18.5718
6	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,005.0 µg/mL	+/- 18.5681
7	n-Decane (C10)	124-18-5	SHBN8619	99%	1,004.9 µg/mL	+/- 18.5669
8	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.1 µg/mL	+/- 18.5706
9	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.9 µg/mL	+/- 18.5669
10	1,4-Dichlorobenzene	106-46-7	MKBS4401V	99%	1,005.1 µg/mL	+/- 18.5706
11	Benzyl alcohol	100-51-6	SHBK5943	99%	1,004.9 µg/mL	+/- 18.5669
12	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,005.1 µg/mL	+/- 18.5706
13	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,005.3 µg/mL	+/- 18.5743
14	2,2'-oxybis(1-chloropropane)	108-60-1	2-KMW-57-8	99%	1,005.3 µg/mL	+/- 18.5730
15	Acetophenone	98-86-2	STBH8205	99%	1,005.4 µg/mL	+/- 18.5755
16	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.3 µg/mL	+/- 9.2831

17	4-Methylphenol (p-cresol)	106-44-5	SHBN1151	99%	502.7	µg/mL	+/- 9.2893
18	N-Nitroso-di-n-propylamine	621-64-7	2D5VJ	99%	1,005.1	µg/mL	+/- 18.5706
19	Hexachloroethane	67-72-1	QTORH	99%	1,004.9	µg/mL	+/- 18.5656
20	Nitrobenzene	98-95-3	10224044	99%	1,004.9	µg/mL	+/- 18.5656
21	Isophorone	78-59-1	MKCC9506	99%	1,005.1	µg/mL	+/- 18.5706
22	2-Nitrophenol	88-75-5	BCCB2407	99%	1,004.9	µg/mL	+/- 18.5669
23	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,005.2	µg/mL	+/- 18.5718
24	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,004.9	µg/mL	+/- 18.5669
25	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,005.4	µg/mL	+/- 18.5755
26	1,2,4-Trichlorobenzene	120-82-1	SHBM0526	99%	1,005.2	µg/mL	+/- 18.5718
27	Naphthalene	91-20-3	MKCH0219	99%	1,004.7	µg/mL	+/- 18.5619
28	2,6-Dichlorophenol	87-65-0	MKCP7682	99%	1,005.0	µg/mL	+/- 18.5681
29	4-Chloroaniline	106-47-8	H24K	99%	1,004.9	µg/mL	+/- 18.5669
30	Hexachlorobutadiene	87-68-3	664800	99%	1,004.9	µg/mL	+/- 18.5669
31	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.9	µg/mL	+/- 18.5656
32	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,005.0	µg/mL	+/- 18.5680
33	1-Methylnaphthalene	90-12-0	5234.00-3	99%	1,005.1	µg/mL	+/- 18.5706
34	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCS1444	99%	1,005.2	µg/mL	+/- 18.5718
35	Hexachlorocyclopentadiene	77-47-4	0012019	99%	1,005.2	µg/mL	+/- 18.5718
36	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.9	µg/mL	+/- 18.5656
37	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,005.1	µg/mL	+/- 18.5697
38	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.9	µg/mL	+/- 18.5669
39	Biphenyl	92-52-4	MKCJ6240	99%	1,005.3	µg/mL	+/- 18.5743
40	2-Nitroaniline	88-74-4	MKCK7278	99%	1,005.0	µg/mL	+/- 18.5681
41	Acenaphthylene	208-96-8	U25W	96%	1,005.0	µg/mL	+/- 18.5680
42	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,005.3	µg/mL	+/- 18.5743
43	Dimethylphthalate	131-11-3	10117699	99%	1,005.1	µg/mL	+/- 18.5706
44	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,005.0	µg/mL	+/- 18.5681
45	3-Nitroaniline	99-09-2	MKCH5457	99%	1,005.1	µg/mL	+/- 18.5706
46	Acenaphthene	83-32-9	MKCR7169	99%	1,004.7	µg/mL	+/- 18.5619
47	2,4-Dinitrophenol	51-28-5	DR221221RSR	99%	2,010.0	µg/mL	+/- 37.1362
48	Dibenzofuran	132-64-9	MKCN1772	99%	1,005.3	µg/mL	+/- 18.5743
49	4-Nitrophenol	100-02-7	MKCN1089	99%	2,009.8	µg/mL	+/- 37.1325
50	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,005.2	µg/mL	+/- 18.5718
51	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,004.8	µg/mL	+/- 18.5644
52	Fluorene	86-73-7	10217947	99%	1,005.3	µg/mL	+/- 18.5743

53	n-Hexadecane (C16)	544-76-3	SHBQ0897	99%	1,004.9	µg/mL	+/- 18.5669
54	Diethylphthalate	84-66-2	BCCD3396	99%	1,005.2	µg/mL	+/- 18.5718
55	4-Chlorophenyl phenyl ether	7005-72-3	MKCQ0984	99%	1,005.1	µg/mL	+/- 18.5693
56	4-Nitroaniline	100-01-6	RP230111	99%	1,005.0	µg/mL	+/- 18.5681
57	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	221221JIM	99%	2,010.3	µg/mL	+/- 37.1411
58	Diphenylamine	122-39-4	MKCH1042	99%	854.3	µg/mL	+/- 15.7844
59	Azobenzene	103-33-3	BCCC9136	99%	1,004.9	µg/mL	+/- 18.5656
60	4-Bromophenyl phenyl ether	101-55-3	STBB9729V	99%	1,004.8	µg/mL	+/- 18.5644
61	Hexachlorohenzene	118-74-1	13994200	99%	1,004.9	µg/mL	+/- 18.5669
62	Pentachlorophenol	87-86-5	RP221012	99%	2,010.1	µg/mL	+/- 37.1374
63	n-Octadecane (C18)	593-45-3	UE5NG	98%	1,005.0	µg/mL	+/- 18.5685
64	Phenanthrene	85-01-8	MKCQ2033	99%	1,004.9	µg/mL	+/- 18.5669
65	Anthracene	120-12-7	MKCP3968	99%	1,005.4	µg/mL	+/- 18.5755
66	Carbazole	86-74-8	13058900	99%	1,005.1	µg/mL	+/- 18.5693
67	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,005.3	µg/mL	+/- 18.5730
68	Fluoranthene	206-44-0	MKCQ4728	99%	1,005.1	µg/mL	+/- 18.5693
69	Pyrene	129-00-0	BCCG7845	99%	1,005.1	µg/mL	+/- 18.5706
70	Benzyl butyl phthalate	85-68-7	MKCN9008	99%	1,005.1	µg/mL	+/- 18.5693
71	Benz(a)anthracene	56-55-3	0012022BAA	99%	1,005.1	µg/mL	+/- 18.5706
72	Chrysene	218-01-9	468677R25M	99%	1,004.9	µg/mL	+/- 18.5669
73	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,005.0	µg/mL	+/- 18.5681
74	Di-n-octyl phthalate	117-84-0	13651900	99%	1,005.3	µg/mL	+/- 18.5743
75	Benzo(h)fluoranthene	205-99-2	012022B	99%	1,004.9	µg/mL	+/- 18.5669
76	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,005.1	µg/mL	+/- 18.5693
77	Benzo(a)pyrene	50-32-8	J6IUE	99%	1,005.1	µg/mL	+/- 18.5706
78	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	99%	1,005.3	µg/mL	+/- 18.5730
79	Dibenz(a,h)anthracene	53-70-3	ER032211-01	99%	1,005.1	µg/mL	+/- 18.5706
80	Benzo(g,h,i)perylene	191-24-2	PMEVE	98%	1,005.2	µg/mL	+/- 18.5721

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

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

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.
This lot was approved even though the %D for 4,6-DN-2-MP was greater than 10%.

Quality Confirmation Test

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.)

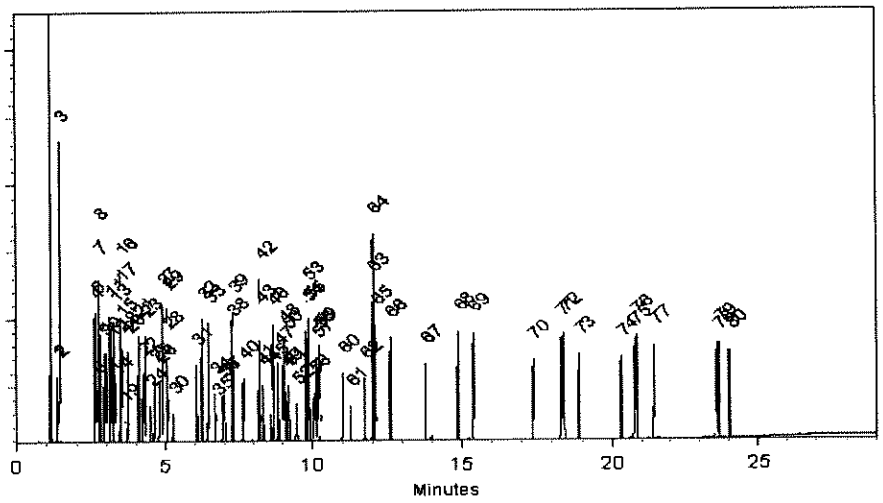
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



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

Nick Yaw - Operations Tech I

Date Mixed: 10-Mar-2023 **Balance Serial #** B442140311

Christie Mills - Operations Tech II - ARM QC

Date Passed: 05-Apr-2023

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

Reagent

SMLIST1 S1_00015

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA 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.:** A0195772

Description : 8270 List 1 / Std #1 MegaMix (2017)

8270 List 1 / Std #1 MegaMix (2017) 500-2,000 µg/mL, Methylene chloride, 5mL/ampul

Container Size : 10 mL **Pkg Amt:** > 5 mL

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

Handling: Carcinogen/reproductive toxin, Photosensitive, Sonicate. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	1,005.4 µg/mL	+/- 18.5755
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.2 µg/mL	+/- 18.5718
3	Pyridine	110-86-1	SHBN7324	99%	2,010.1 µg/mL	+/- 37.1374
4	Phenol	108-95-2	MKCK1120	99%	1,005.1 µg/mL	+/- 18.5706
5	Aniline	62-53-3	X22F726	99%	1,005.2 µg/mL	+/- 18.5718
6	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,005.0 µg/mL	+/- 18.5681
7	n-Decane (C10)	124-18-5	SHBN8619	99%	1,004.9 µg/mL	+/- 18.5669
8	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.1 µg/mL	+/- 18.5706
9	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.9 µg/mL	+/- 18.5669
10	1,4-Dichlorobenzene	106-46-7	MKBS4401V	99%	1,005.1 µg/mL	+/- 18.5706
11	Benzyl alcohol	100-51-6	SHBK5943	99%	1,004.9 µg/mL	+/- 18.5669
12	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,005.1 µg/mL	+/- 18.5706
13	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,005.3 µg/mL	+/- 18.5743
14	2,2'-oxybis(1-chloropropane)	108-60-1	2-KMW-57-8	99%	1,005.3 µg/mL	+/- 18.5730
15	Acetophenone	98-86-2	STBH8205	99%	1,005.4 µg/mL	+/- 18.5755
16	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.3 µg/mL	+/- 9.2831

17	4-Methylphenol (p-cresol)	106-44-5	SHBN1151	99%	502.7	µg/mL	+/- 9.2893
18	N-Nitroso-di-n-propylamine	621-64-7	2D5VJ	99%	1,005.1	µg/mL	+/- 18.5706
19	Hexachloroethane	67-72-1	QTORH	99%	1,004.9	µg/mL	+/- 18.5656
20	Nitrobenzene	98-95-3	10224044	99%	1,004.9	µg/mL	+/- 18.5656
21	Isophorone	78-59-1	MKCC9506	99%	1,005.1	µg/mL	+/- 18.5706
22	2-Nitrophenol	88-75-5	BCCB2407	99%	1,004.9	µg/mL	+/- 18.5669
23	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,005.2	µg/mL	+/- 18.5718
24	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,004.9	µg/mL	+/- 18.5669
25	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,005.4	µg/mL	+/- 18.5755
26	1,2,4-Trichlorobenzene	120-82-1	SHBM0526	99%	1,005.2	µg/mL	+/- 18.5718
27	Naphthalene	91-20-3	MKCH0219	99%	1,004.7	µg/mL	+/- 18.5619
28	2,6-Dichlorophenol	87-65-0	MKCP7682	99%	1,005.0	µg/mL	+/- 18.5681
29	4-Chloroaniline	106-47-8	H24K	99%	1,004.9	µg/mL	+/- 18.5669
30	Hexachlorobutadiene	87-68-3	664800	99%	1,004.9	µg/mL	+/- 18.5669
31	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.9	µg/mL	+/- 18.5656
32	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,005.0	µg/mL	+/- 18.5680
33	1-Methylnaphthalene	90-12-0	5234.00-3	99%	1,005.1	µg/mL	+/- 18.5706
34	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCS1444	99%	1,005.2	µg/mL	+/- 18.5718
35	Hexachlorocyclopentadiene	77-47-4	0012019	99%	1,005.2	µg/mL	+/- 18.5718
36	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.9	µg/mL	+/- 18.5656
37	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,005.1	µg/mL	+/- 18.5697
38	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.9	µg/mL	+/- 18.5669
39	Biphenyl	92-52-4	MKCJ6240	99%	1,005.3	µg/mL	+/- 18.5743
40	2-Nitroaniline	88-74-4	MKCK7278	99%	1,005.0	µg/mL	+/- 18.5681
41	Acenaphthylene	208-96-8	U25W	96%	1,005.0	µg/mL	+/- 18.5680
42	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,005.3	µg/mL	+/- 18.5743
43	Dimethylphthalate	131-11-3	10117699	99%	1,005.1	µg/mL	+/- 18.5706
44	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,005.0	µg/mL	+/- 18.5681
45	3-Nitroaniline	99-09-2	MKCH5457	99%	1,005.1	µg/mL	+/- 18.5706
46	Acenaphthene	83-32-9	MKCR7169	99%	1,004.7	µg/mL	+/- 18.5619
47	2,4-Dinitrophenol	51-28-5	DR221221RSR	99%	2,010.0	µg/mL	+/- 37.1362
48	Dibenzofuran	132-64-9	MKCN1772	99%	1,005.3	µg/mL	+/- 18.5743
49	4-Nitrophenol	100-02-7	MKCN1089	99%	2,009.8	µg/mL	+/- 37.1325
50	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,005.2	µg/mL	+/- 18.5718
51	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,004.8	µg/mL	+/- 18.5644
52	Fluorene	86-73-7	10217947	99%	1,005.3	µg/mL	+/- 18.5743

53	n-Hexadecane (C16)	544-76-3	SHBQ0897	99%	1,004.9	µg/mL	+/- 18.5669
54	Diethylphthalate	84-66-2	BCCD3396	99%	1,005.2	µg/mL	+/- 18.5718
55	4-Chlorophenyl phenyl ether	7005-72-3	MKCQ0984	99%	1,005.1	µg/mL	+/- 18.5693
56	4-Nitroaniline	100-01-6	RP230111	99%	1,005.0	µg/mL	+/- 18.5681
57	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	221221JIM	99%	2,010.3	µg/mL	+/- 37.1411
58	Diphenylamine	122-39-4	MKCH1042	99%	854.3	µg/mL	+/- 15.7844
59	Azobenzene	103-33-3	BCCC9136	99%	1,004.9	µg/mL	+/- 18.5656
60	4-Bromophenyl phenyl ether	101-55-3	STBB9729V	99%	1,004.8	µg/mL	+/- 18.5644
61	Hexachlorohenzene	118-74-1	13994200	99%	1,004.9	µg/mL	+/- 18.5669
62	Pentachlorophenol	87-86-5	RP221012	99%	2,010.1	µg/mL	+/- 37.1374
63	n-Octadecane (C18)	593-45-3	UE5NG	98%	1,005.0	µg/mL	+/- 18.5685
64	Phenanthrene	85-01-8	MKCQ2033	99%	1,004.9	µg/mL	+/- 18.5669
65	Anthracene	120-12-7	MKCP3968	99%	1,005.4	µg/mL	+/- 18.5755
66	Carbazole	86-74-8	13058900	99%	1,005.1	µg/mL	+/- 18.5693
67	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,005.3	µg/mL	+/- 18.5730
68	Fluoranthene	206-44-0	MKCQ4728	99%	1,005.1	µg/mL	+/- 18.5693
69	Pyrene	129-00-0	BCCG7845	99%	1,005.1	µg/mL	+/- 18.5706
70	Benzyl butyl phthalate	85-68-7	MKCN9008	99%	1,005.1	µg/mL	+/- 18.5693
71	Benz(a)anthracene	56-55-3	0012022BAA	99%	1,005.1	µg/mL	+/- 18.5706
72	Chrysene	218-01-9	468677R25M	99%	1,004.9	µg/mL	+/- 18.5669
73	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,005.0	µg/mL	+/- 18.5681
74	Di-n-octyl phthalate	117-84-0	13651900	99%	1,005.3	µg/mL	+/- 18.5743
75	Benzo(h)fluoranthene	205-99-2	012022B	99%	1,004.9	µg/mL	+/- 18.5669
76	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,005.1	µg/mL	+/- 18.5693
77	Benzo(a)pyrene	50-32-8	J6IUE	99%	1,005.1	µg/mL	+/- 18.5706
78	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	99%	1,005.3	µg/mL	+/- 18.5730
79	Dibenz(a,h)anthracene	53-70-3	ER032211-01	99%	1,005.1	µg/mL	+/- 18.5706
80	Benzo(g,h,i)perylene	191-24-2	PMEVE	98%	1,005.2	µg/mL	+/- 18.5721

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

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

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.
This lot was approved even though the %D for 4,6-DN-2-MP was greater than 10%.

Quality Confirmation Test

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.)

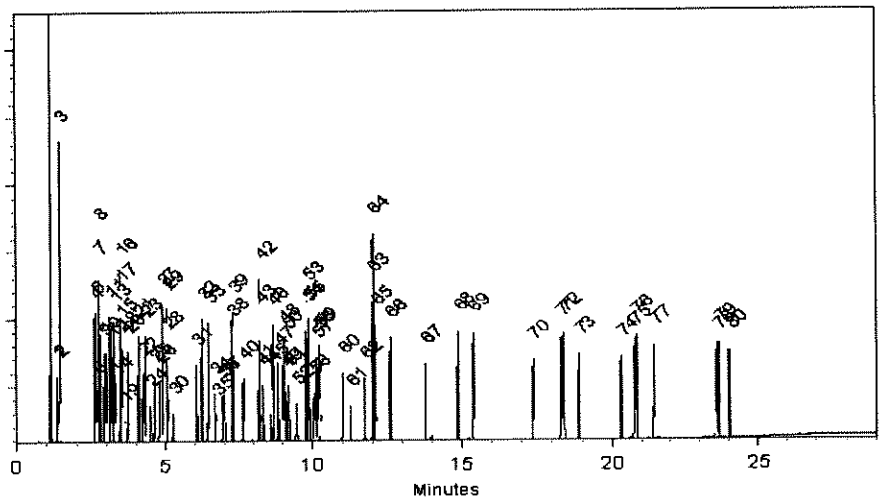
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



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

Nick Yaw - Operations Tech I

Date Mixed: 10-Mar-2023 **Balance Serial #** B442140311

Christie Mills - Operations Tech II - ARM QC

Date Passed: 05-Apr-2023

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

Reagent

SMLIST1 S10_00011

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 569731 **Lot No.:** A0193718

Description : 8270 List 1 / Std #10

8270 List 1 / Std #10 2,000 µg/mL, Methylene chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : July 31, 2024 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Indene	95-13-6	RD221018	98%	2,007.2 µg/mL	+/- 112.7560
2	Benzoic acid	65-85-0	MKCL7479	99%	2,009.9 µg/mL	+/- 112.9084

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

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

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.)

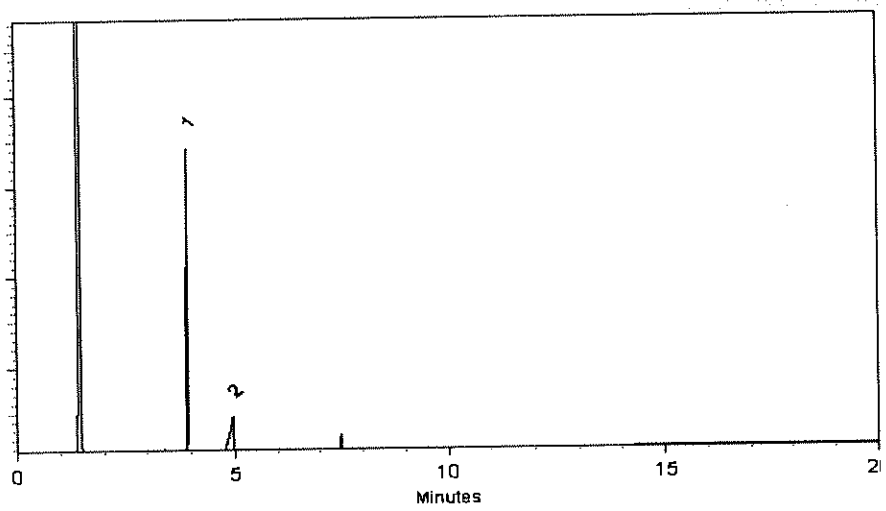
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
0.2µl



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

Morgan Craighead - Mix Technician

Date Mixed: 18-Jan-2023 **Balance Serial #** 1128360905

Christie Mills - Operations Tech II - ARM QC

Date Passed: 23-Jan-2023

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

Reagent

SMLIST1 S11_00013

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 569732 **Lot No.:** A0193487

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 : July 31, 2024 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Benzaldehyde	100-52-7	RDA102822RSR	99%	2,000.0 µg/mL	+/- 58.7396
2	epsilon-Caprolactam	105-60-2	I16X016	99%	2,000.3 µg/mL	+/- 58.7469
3	Atrazine	1912-24-9	PI8FG	99%	2,000.3 µg/mL	+/- 58.7494

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

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

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.)

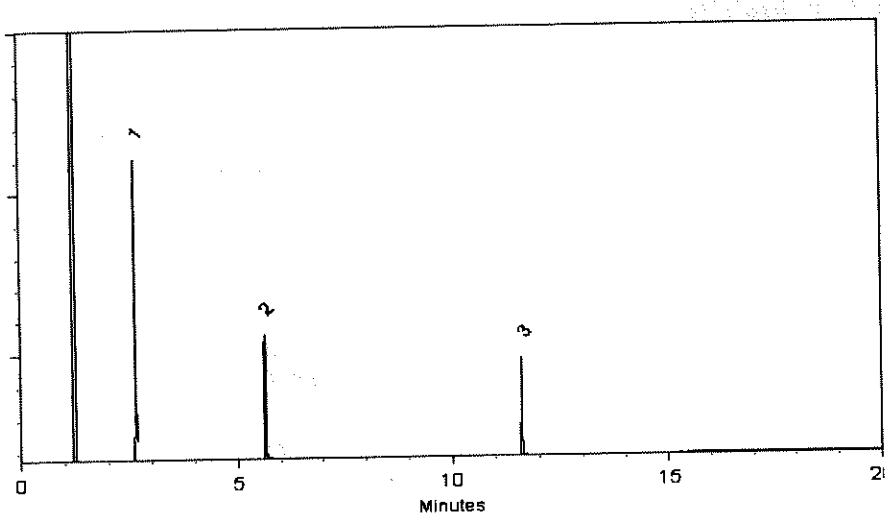
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



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

Russ Bookhamer - Operations Technician I

Date Mixed: 12-Jan-2023 **Balance Serial #** B442140311

Christie Mills - Operations Tech II - ARM QC

Date Passed: 16-Jan-2023

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

Reagent

SMLIST1 S9_00011

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA 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. : 569730 **Lot No.:** A0194453

Description : 8270 List 1 / Std #9

8270 List 1 / Std #9 2,000 µg/mL, Methylene chloride, 5mL/ampul

Container Size : 10 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2024 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Benzidine	92-87-5	S221205RSR	99%	2,018.3 µg/mL	+/- 37.2902
2	3,3'-Dichlorobenzidine	91-94-1	S221201RSR	99%	2,018.6 µg/mL	+/- 37.2948

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

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

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.)

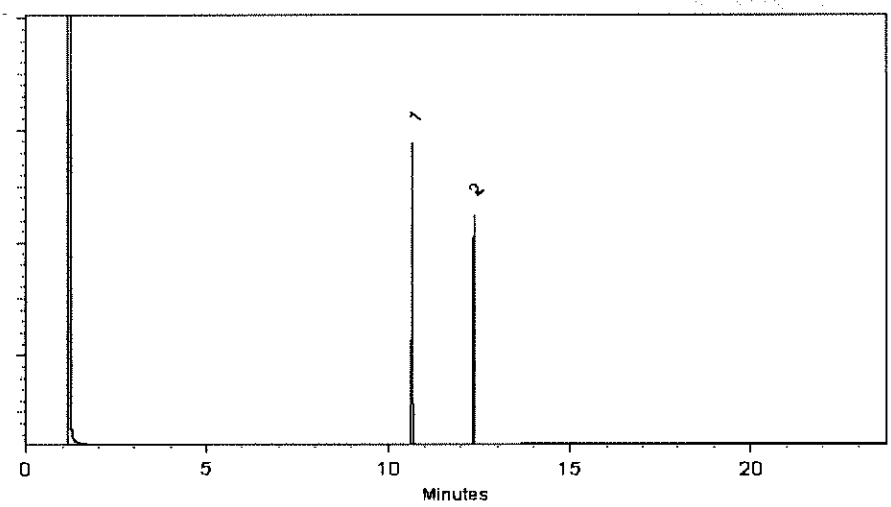
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
0.2µl



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

Brittany Federinko - Operations Tech I

Date Mixed: 08-Feb-2023 **Balance Serial #** 1122030677

Christie Mills - Operations Tech II - ARM QC

Date Passed: 23-Feb-2023

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

Reagent

SMLIST1 SS S1_00014

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA 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.SEC **Lot No.:** A0194078

Description : 8270 List 1 / Std #1 MegaMix (2017)

8270 List 1 / Std #1 MegaMix (2017) 500-2,000 µg/mL, Methylene chloride, 5mL/ampul

Container Size : 10 mL **Pkg Amt:** > 5 mL

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

Handling: Carcinogen/reproductive toxin. Photosensitive. Sonicate. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Gravimetric Concentration	Expanded Uncertainty (k=2, 95% C.L.)
1	1,4-Dioxane	123-91-1.SEC	QHRWO	99%	1,007.3 µg/mL	+/- 18.6139
2	N-Nitrosodimethylamine	62-75-9.SEC	61H72	99%	1,005.5 µg/mL	+/- 18.5816
3	Pyridine	110-86-1.SEC	QN8DK	99%	2,014.3 µg/mL	+/- 37.2233
4	Phenol	108-95-2.SEC	EDPYN	99%	1,004.3 µg/mL	+/- 18.5585
5	Aniline	62-53-3.SEC	ZCD3N	99%	1,007.5 µg/mL	+/- 18.6186
6	Bis(2-chloroethyl)ether	111-44-4.SEC	FA010143	99%	1,007.5 µg/mL	+/- 18.6186
7	n-Decane (C10)	124-18-5.SEC	UCVNN	99%	1,002.5 µg/mL	+/- 18.5262
8	2-Chlorophenol	95-57-8.SEC	GJ01	99%	1,006.5 µg/mL	+/- 18.6001
9	1,3-Dichlorobenzene	541-73-1.SEC	ZA2ZI	99%	1,006.5 µg/mL	+/- 18.6001
10	1,4-Dichlorobenzene	106-46-7.SEC	J5GVD	99%	1,006.8 µg/mL	+/- 18.6047
11	Benzyl alcohol	100-51-6.SEC	QZBUO	99%	1,009.5 µg/mL	+/- 18.6555
12	1,2-Dichlorobenzene	95-50-1.SEC	R6QDM	99%	1,002.8 µg/mL	+/- 18.5308
13	2-Methylphenol (o-cresol)	95-48-7.SEC	NC7HL	99%	1,007.0 µg/mL	+/- 18.6093
14	2,2'-oxybis(1-chloropropane)	108-60-1.SEC	29-MAR-45-5	99%	1,004.0 µg/mL	+/- 18.5539
15	Acetophenone	98-86-2.SEC	NSGTI	99%	1,004.0 µg/mL	+/- 18.5539
16	3-Methylphenol (m-cresol)	108-39-4.SEC	6LHTM	99%	501.3 µg/mL	+/- 9.2631

17	4-Methylphenol (p-cresol)	106-44-5.SEC 65S2E	99%	504.3	µg/mL	+/- 9.3185
18	N-Nitroso-di-n-propylamine	621-64-7.SEC 13924400	99%	1,005.0	µg/mL	+/- 18.5724
19	Hexachloroethane	67-72-1.SEC 10173016	99%	1,005.8	µg/mL	+/- 18.5862
20	Nitrobenzene	98-95-3.SEC FLYIG	99%	1,007.3	µg/mL	+/- 18.6139
21	Isophorone	78-59-1.SEC XHGJI	98%	1,004.5	µg/mL	+/- 18.5631
22	2-Nitrophenol	88-75-5.SEC GXJ7J	99%	1,005.8	µg/mL	+/- 18.5862
23	2,4-Dimethylphenol	105-67-9.SEC MKBL3650V	99%	1,009.3	µg/mL	+/- 18.6509
24	Bis(2-chloroethoxy)methane	111-91-1 * 13670200	99%	1,007.3	µg/mL	+/- 18.6139
25	2,4-Dichlorophenol	120-83-2.SEC FHM01	99%	1,007.0	µg/mL	+/- 18.6093
26	1,2,4-Trichlorobenzene	120-82-1.SEC IGLFA	99%	1,003.5	µg/mL	+/- 18.5446
27	Naphthalene	91-20-3.SEC AM5NG	99%	1,008.3	µg/mL	+/- 18.6324
28	2,6-Dichlorophenol	87-65-0.SEC SIDBB	99%	1,006.3	µg/mL	+/- 18.5955
29	4-Chloroaniline	106-47-8.SEC 10171860	99%	1,006.0	µg/mL	+/- 18.5908
30	Hexachlorobutadiene	87-68-3.SEC 13889400	97%	1,003.7	µg/mL	+/- 18.5485
31	4-Chloro-3-methylphenol	59-50-7.SEC FDO02	99%	1,009.0	µg/mL	+/- 18.6463
32	2-Methylnaphthalene	91-57-6.SEC 76023-1	99%	1,009.0	µg/mL	+/- 18.6463
33	1-Methylnaphthalene	90-12-0.SEC OEE3F	98%	1,005.2	µg/mL	+/- 18.5767
34	1,2,4,5-Tetrachlorobenzene	95-94-3.SEC AF02	99%	1,007.3	µg/mL	+/- 18.6139
35	Hexachlorocyclopentadiene	77-47-4.SEC 12833000	99%	1,005.3	µg/mL	+/- 18.5770
36	2,4,6-Trichlorophenol	88-06-2.SEC UUMYM	99%	1,004.8	µg/mL	+/- 18.5677
37	2,4,5-Trichlorophenol	95-95-4.SEC MKBQ9937V	97%	1,002.3	µg/mL	+/- 18.5216
38	2-Chloronaphthalene	91-58-7.SEC 13924200	99%	1,008.5	µg/mL	+/- 18.6370
39	Biphenyl	92-52-4.SEC 33OQE	99%	1,008.3	µg/mL	+/- 18.6324
40	2-Nitroaniline	88-74-4.SEC T6E7B	99%	1,008.3	µg/mL	+/- 18.6324
41	Acenaphthylene	208-96-8.SEC 0012014	96%	1,006.1	µg/mL	+/- 18.5923
42	1,3-Dinitrobenzene	99-65-0.SEC 3XXLB	99%	1,006.8	µg/mL	+/- 18.6047
43	Dimethylphthalate	131-11-3.SEC 483WC	99%	1,005.8	µg/mL	+/- 18.5862
44	2,6-Dinitrotoluene	606-20-2.SEC GE01	99%	1,006.0	µg/mL	+/- 18.5908
45	3-Nitroaniline	99-09-2.SEC FGN03	99%	1,006.5	µg/mL	+/- 18.6001
46	Acenaphthene	83-32-9.SEC BWZJE	99%	1,008.3	µg/mL	+/- 18.6324
47	2,4-Dinitrophenol	51-28-5.SEC YTR6B	98%	2,011.2	µg/mL	+/- 37.1670
48	Dibenzofuran	132-64-9.SEC 27ZGC	99%	1,003.3	µg/mL	+/- 18.5400
49	4-Nitrophenol	100-02-7.SEC H75QG	99%	2,019.8	µg/mL	+/- 37.3249
50	2,4-Dinitrotoluene	121-14-2.SEC SHRSA	99%	1,006.5	µg/mL	+/- 18.6001
51	2,3,4,6-Tetrachlorophenol	58-90-2.SEC B18W03261	99%	1,004.0	µg/mL	+/- 18.5539
52	Fluorene	86-73-7.SEC 13590100	98%	1,003.3	µg/mL	+/- 18.5405

53	n-Hexadecane (C16)	544-76-3.SEC A0328141	99%	1,005.3	µg/mL	+/- 18.5770
54	Diethylphthalate	84-66-2.SEC UMBJC	99%	1,007.5	µg/mL	+/- 18.6186
55	4-Chlorophenyl phenyl ether	7005-72-3.SECP31G	98%	1,006.7	µg/mL	+/- 18.6039
56	4-Nitroaniline	100-01-6.SEC 5ITRC	99%	1,004.8	µg/mL	+/- 18.5677
57	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1.SEC DR13924100	99%	2,018.0	µg/mL	+/- 37.2926
58	Diphenylamine	122-39-4.SEC 10164691	99%	857.5	µg/mL	+/- 15.8466
59	Azobenzene	103-33-3.SEC JUWAG	99%	1,007.5	µg/mL	+/- 18.6186
60	4-Bromophenyl phenyl ether	101-55-3.SEC 84C6D	99%	1,005.0	µg/mL	+/- 18.5724
61	Hexachlorobenzene	118-74-1.SEC G137934	99%	1,009.8	µg/mL	+/- 18.6601
62	Pentachlorophenol	87-86-5.SEC 13924300	99%	2,017.8	µg/mL	+/- 37.2879
63	n-Octadecane (C18)	593-45-3.SEC A0406344	99%	1,009.8	µg/mL	+/- 18.6601
64	Phenanthrene	85-01-8.SEC 8637000	98%	1,009.4	µg/mL	+/- 18.6537
65	Anthracene	120-12-7.SEC WDFNJ	99%	1,006.3	µg/mL	+/- 18.5955
66	Carbazole	86-74-8.SEC LMIZB	99%	1,003.8	µg/mL	+/- 18.5493
67	Di-n-butylphthalate	84-74-2.SEC 42FSG	99%	1,006.0	µg/mL	+/- 18.5908
68	Fluoranthene	206-44-0.SEC FREGF	99%	1,006.5	µg/mL	+/- 18.6001
69	Pyrene	129-00-0.SEC ROVJC	99%	1,008.0	µg/mL	+/- 18.6278
70	Benzyl butyl phthalate	85-68-7.SEC GX3GL	98%	1,008.2	µg/mL	+/- 18.6310
71	Benz(a)anthracene	56-55-3.SEC MTENF	98%	1,001.3	µg/mL	+/- 18.5043
72	chrysene	218-01-9.SEC NICZC	99%	1,007.8	µg/mL	+/- 18.6232
73	Bis(2-ethylhexyl)phthalate	117-81-7.SEC MT8AG	99%	1,007.3	µg/mL	+/- 18.6139
74	Di-n-octyl phthalate	117-84-0.SEC O8DLD	99%	1,005.8	µg/mL	+/- 18.5862
75	Benzo(b)fluoranthene	205-99-2.SEC I4OWH	99%	1,006.8	µg/mL	+/- 18.6047
76	Benzo(k)fluoranthene	207-08-9.SEC 9711000	99%	1,003.3	µg/mL	+/- 18.5400
77	Benzo(a)pyrene	50-32-8.SEC SLCL0394	99%	1,007.0	µg/mL	+/- 18.6093
78	Indeno(1,2,3-cd)pyrene	193-39-5.SEC 0012014	99%	1,006.3	µg/mL	+/- 18.5955
79	Dibenz(a,h)anthracene	53-70-3.SEC 0012022	99%	1,009.5	µg/mL	+/- 18.6555
80	Benzo(g,h,i)perylene	191-24-2.SEC 0022012	96%	1,008.0	µg/mL	+/- 18.6278

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

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.

Quality Confirmation Test

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.)

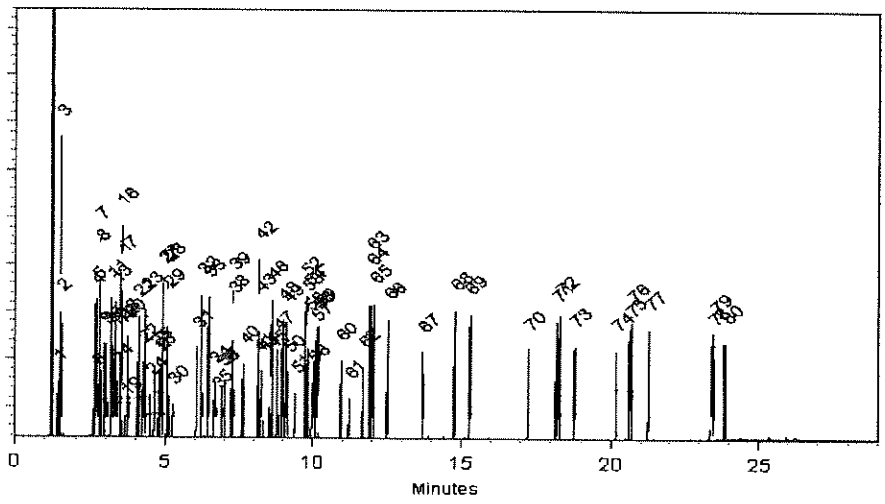
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



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

John Friedline - Operations Technician I

Date Mixed: 30-Jan-2023 **Balance Serial #** 1128353505

Christie Mills - Operations Tech II - ARM QC

Date Passed: 06-Feb-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

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

Reagent

SMLIST1 SS S9_00011

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 569730.SEC **Lot No.:** A0187547

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 : January 31, 2024 **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	2,007.0 µg/mL	+/- 11.7782	µg/mL	Gravimetric
	CAS # 92-87-5.SEC (Lot 8616600)		+/- 24.0452	µg/mL	Unstressed
	Purity 99%		+/- 38.2161	µg/mL	Stressed
2	3,3'-Dichlorobenzidine	2,006.5 µg/mL	+/- 11.7753	µg/mL	Gravimetric
	CAS # 91-94-1.SEC (Lot 12345700)		+/- 24.0392	µg/mL	Unstressed
	Purity 99%		+/- 38.2066	µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

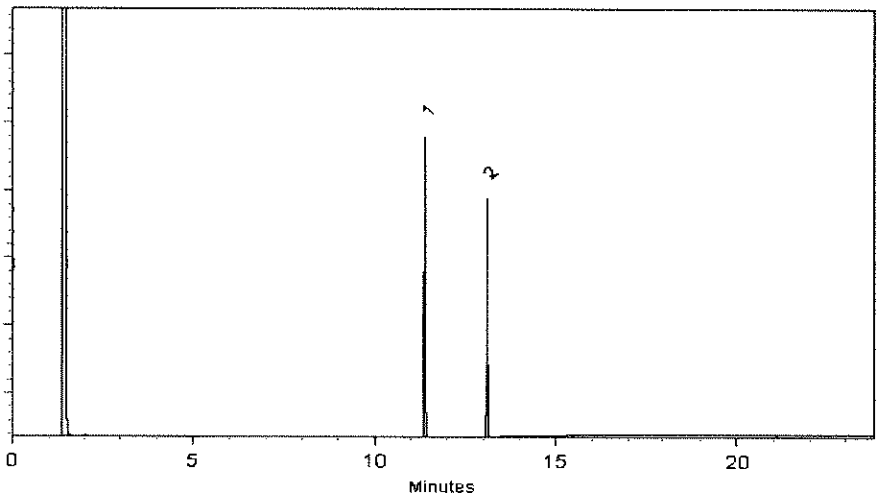
Carrier Gas:
hydrogen-constant pressure 10 psi.

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.

Matt Fragassi - Mix Technician

Date Mixed: 20-Jul-2022 **Balance:** 1122030677

Fang-Yun Weaver - Operations Lead Tech - ARM QC

Date Passed: 01-Aug-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

SMLIST1 SURR_00017

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 567685 **Lot No.:** A0172807

Description : 8270 Surrogate Standard

8270 Surrogate Standard 5,000µg/mL, Methylene chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : May 31, 2026 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Fluorophenol **CAS #** 367-12-4 (Lot STBJ2508) **Purity** 99%	5,004.6 µg/mL	+/- 29.0972 µg/mL +/- 146.0510 µg/mL +/- 177.2273 µg/mL	Gravimetric Unstressed Stressed
2	Phenol-d5 **CAS #** 4165-62-2 (Lot CD-105) **Purity** 99%	5,011.4 µg/mL	+/- 29.1367 µg/mL +/- 146.2494 µg/mL +/- 177.4681 µg/mL	Gravimetric Unstressed Stressed
3	Nitrobenzene-d5 **CAS #** 4165-60-0 (Lot PR-29940B) **Purity** 99%	5,003.0 µg/mL	+/- 29.0879 µg/mL +/- 146.0043 µg/mL +/- 177.1706 µg/mL	Gravimetric Unstressed Stressed
4	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 00019169) **Purity** 99%	5,010.2 µg/mL	+/- 29.1297 µg/mL +/- 146.2144 µg/mL +/- 177.4256 µg/mL	Gravimetric Unstressed Stressed
5	2,4,6-Tribromophenol **CAS #** 118-79-6 (Lot MKCJ7664) **Purity** 99%	5,003.9 µg/mL	+/- 29.0931 µg/mL +/- 146.0306 µg/mL +/- 177.2025 µg/mL	Gravimetric Unstressed Stressed
6	p-Terphenyl-d14 **CAS #** 1718-51-0 (Lot PR-30504) **Purity** 99%	5,013.8 µg/mL	+/- 29.1507 µg/mL +/- 146.3195 µg/mL +/- 177.5531 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

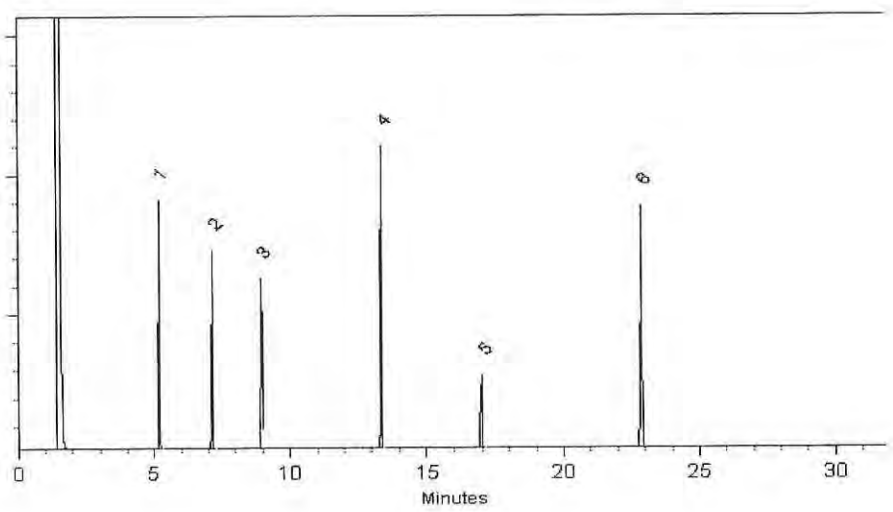
Carrier Gas:
hydrogen-constant pressure 10 psi.

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: 27-May-2021 **Balance:** 1128360905

Alexis Shelow - Operations Tech I

Date Passed: 28-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

SMLIST1 SURR_00018

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 567685 **Lot No.:** A0184539

Description : 8270 Surrogate Standard

8270 Surrogate Standard 5,000µg/mL, Methylene chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2027 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L., K=2)		
1	2-Fluorophenol **CAS #** 367-12-4 **Purity** 99%	(Lot STBJ3299)	5,023.5 µg/mL	+/- 29.2073 µg/mL +/- 146.6035 µg/mL +/- 177.8977 µg/mL		Gravimetric Unstressed Stressed
2	Phenol-d5 **CAS #** 4165-62-2 **Purity** 99%	(Lot GH-100)	5,000.1 µg/mL	+/- 29.0708 µg/mL +/- 145.9187 µg/mL +/- 177.0667 µg/mL		Gravimetric Unstressed Stressed
3	Nitrobenzene-d5 **CAS #** 4165-60-0 **Purity** 99%	(Lot PR-29940A)	5,012.6 µg/mL	+/- 29.1437 µg/mL +/- 146.2845 µg/mL +/- 177.5106 µg/mL		Gravimetric Unstressed Stressed
4	2-Fluorobiphenyl **CAS #** 321-60-8 **Purity** 99%	(Lot 00021384)	5,004.9 µg/mL	+/- 29.0991 µg/mL +/- 146.0607 µg/mL +/- 177.2391 µg/mL		Gravimetric Unstressed Stressed
5	2,4,6-Tribromophenol **CAS #** 118-79-6 **Purity** 99%	(Lot MKCJ7664)	5,009.7 µg/mL	+/- 29.1270 µg/mL +/- 146.2008 µg/mL +/- 177.4091 µg/mL		Gravimetric Unstressed Stressed
6	p-Terphenyl-d14 **CAS #** 1718-51-0 **Purity** 99%	(Lot PR-30504)	5,005.8 µg/mL	+/- 29.1042 µg/mL +/- 146.0860 µg/mL +/- 177.2698 µg/mL		Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

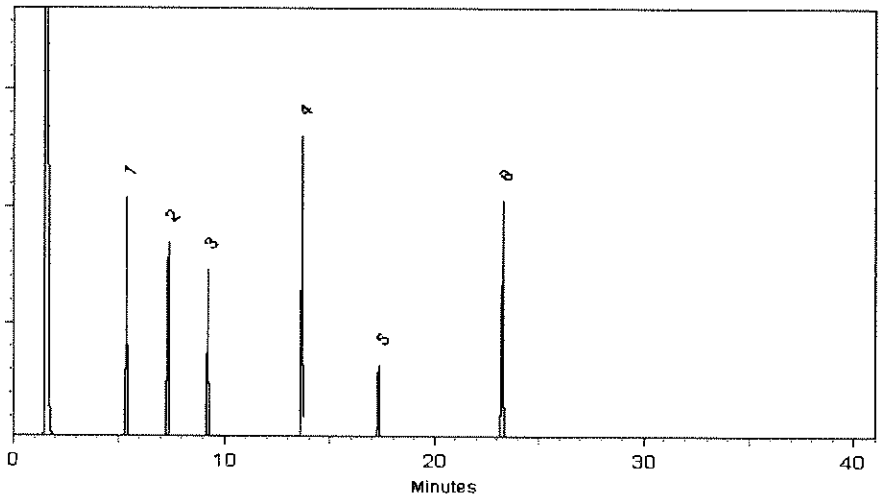
Carrier Gas:
hydrogen-constant pressure 10 psi.

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.

Nick Yaw - Operations Tech I

Date Mixed: 26-Apr-2022 **Balance:** 1128360905

Date Passed: 29-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

SMLIST2 S1_00026

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

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 (Lot ELVJM) **Purity** 99%	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 (Lot WZDQE) **Purity** 99%	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 (Lot RP220401) **Purity** 97%	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 (Lot 012016) **Purity** 99%	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)

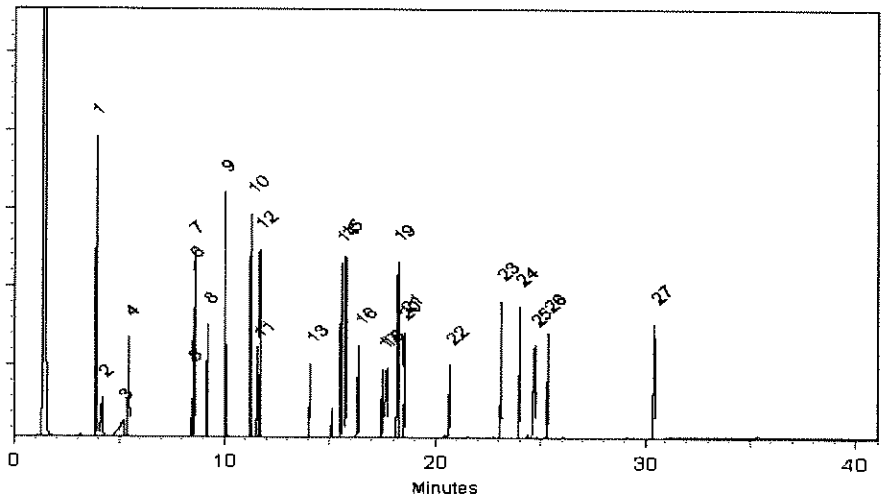
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

Reagent

SMLIST2 S2_00030

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3223.01

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. : 569733 **Lot No.:** A0193498

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 : January 31, 2024 **Storage:** -20°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Neat Conc. (weight/volume)	Expanded Uncertainty (95% C.L., k=2)
1	Methyl methanesulfonate	66-27-3	MKCM5645	99%	1,001.3 µg/mL	+/- 22.9875
2	Ethyl methanesulfonate	62-50-0	H6VUB	99%	1,002.7 µg/mL	+/- 23.0181
3	Pentachloroethane	76-01-7	13550700	97%	999.7 µg/mL	+/- 22.9511
4	Hexachloropropene	1888-71-7	44391/3	99%	1,007.3 µg/mL	+/- 23.1253
5	Isosafrole (cis & trans) 16% cis; 84% trans	120-58-1	MKBZ0058V	97%	1,001.7 µg/mL	+/- 22.9956
6	1-Chloronaphthalene	90-13-1	K2OBC	99%	1,000.0 µg/mL	+/- 22.9569
7	1,4-Naphthoquinone	130-15-4	13230700	99%	1,006.0 µg/mL	+/- 23.0947
8	Pentachlorobenzene	608-93-5	MKCD4132	99%	1,006.7 µg/mL	+/- 23.1100
9	2,3,5,6-Tetrachlorophenol	935-95-5	012016	99%	1,005.3 µg/mL	+/- 23.0794
10	Dinoseb	88-85-7	50001	99%	1,000.0 µg/mL	+/- 22.9569
11	Isodrin	465-73-6	13728400	98%	1,000.3 µg/mL	+/- 22.9627
12	Chlorobenzilate	510-15-6	13562500	97%	1,003.6 µg/mL	+/- 23.0402
13	7,12-Dimethylbenz(a)anthracene	57-97-6	QXLNC	99%	1,000.0 µg/mL	+/- 22.9569

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

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

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.)

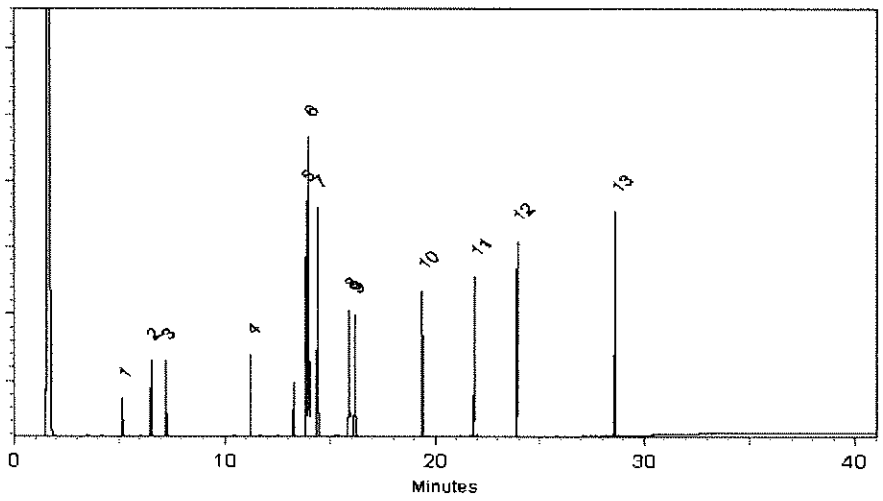
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
0.2µl



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

Russ Bookhamer - Operations Technician I

Date Mixed: 12-Jan-2023 **Balance Serial #** B442140311

Christie Mills - Operations Tech II - ARM QC

Date Passed: 16-Jan-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

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

Reagent

SMLIST2 S3_00028

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 567680 **Lot No.:** A0193475

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 : January 31, 2024 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Gravimetric Conc. (weight/volume)	Expanded Uncertainty,* 95% C.L. (k=2)
1	6-Methylchrysene	1705-85-7	022421	99%	2,004.0 µg/mL	+/- 90.2942
2	3-Methylcholanthrene	56-49-5	MKCM7171	98%	2,009.0 µg/mL	+/- 90.5195

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

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

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.)

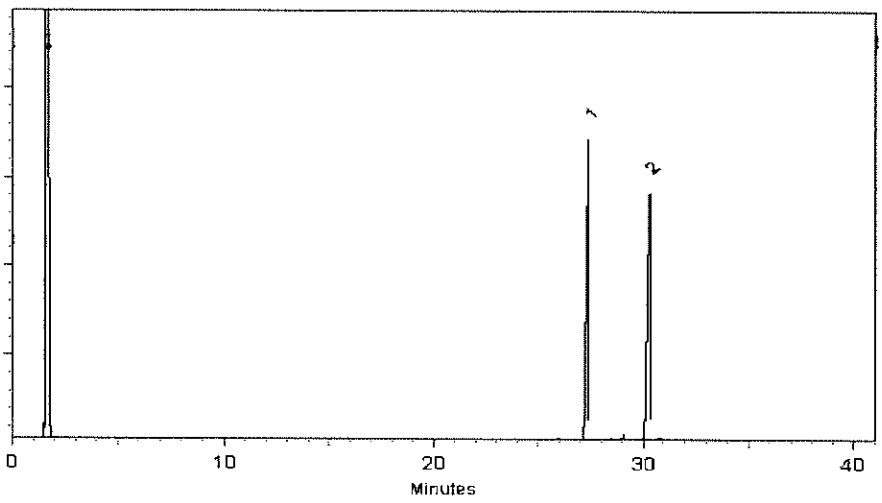
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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

Morgan Craighead - Mix Technician

Date Mixed: 11-Jan-2023 **Balance Serial #** 1128360905

Christie Mills - Operations Tech II - ARM QC

Date Passed: 13-Jan-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

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

Reagent

SMLIST2 S4_00020

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 567681 **Lot No.:** A0193163

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, 2025 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L., K=2)
1	o,o,o-Triethyl phosphorothioate	126-68-1	2-KRR-57-1	98%	1,007.1 µg/mL	+/- 45.9677
2	Safrole	94-59-7	322225/11292	99%	1,001.7 µg/mL	+/- 45.7191
3	Zinophos (thionazine)	297-97-2	13866700	99%	1,009.3 µg/mL	+/- 46.0690
4	Sulfotepp	3689-24-5	13969000	96%	1,003.5 µg/mL	+/- 45.8037
5	Diallate (cis and trans) 74% cis-Diallate; 26% trans-Diallate	2303-16-4	13469800	98%	1,001.6 µg/mL	+/- 45.7142
6	Phorate	298-02-2	13939400	99%	1,000.0 µg/mL	+/- 45.6430
7	Dimethoate	60-51-5	13597200	99%	1,003.3 µg/mL	+/- 45.7952
8	Disulfoton	298-04-4	13839400	98%	1,002.9 µg/mL	+/- 45.7739
9	Methyl parathion	298-00-0	13855300	99%	1,008.3 µg/mL	+/- 46.0234
10	Parathion (Ethyl parathion)	56-38-2	13836200	99%	1,007.3 µg/mL	+/- 45.9778
11	Aramite 6% Isomer 1; 6% Isomer 2; 42% Isomer 3; 46% Isomer 4	140-57-8	13721500	76%	1,004.5 µg/mL	+/- 45.8469
12	Famphur	52-85-7	13419800	98%	1,007.4 µg/mL	+/- 45.9826

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

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

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.)

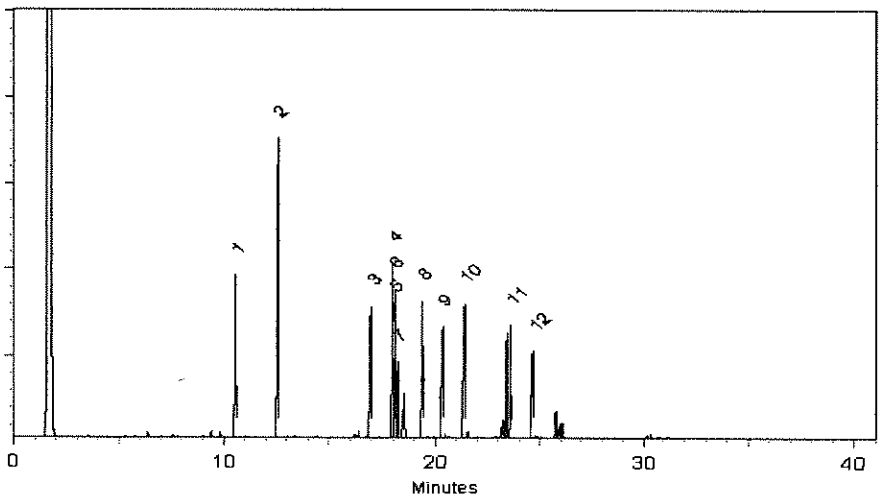
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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

Morgan Craighead - Mix Technician

Date Mixed: 03-Jan-2023 **Balance Serial #** B442140311

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 06-Jan-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

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

Reagent

SMLIST2 S5_00018

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 567682 **Lot No.:** A0193415

Description : 8270 List 2 / Std #5 Methapyrilene

8270 List 2 / Std #5 Methapyrilene 2,000µg/mL, Methylene chloride, 1mL/ampul
*The reported compound masses are for Methapyrilene HCl. Purity is adjusted to correct for the HCl salt. The reported concentration is of Methapyrilene.

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

Expiration Date : January 31, 2025 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Blend Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.I., k=2)
1	Methapyrilene hydrochloride	135-23-9	3-JLW-10-1	87%	2,007.4 µg/mL	+/- 37.1224

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

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Specific Reference Material Notes:
*The reported compound masses are for Methapyrilene HCl. Purity is adjusted to correct for the HCl salt. The reported concentration is of Methapyrilene, CAS # 91-80-5

Quality Confirmation Test

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.)

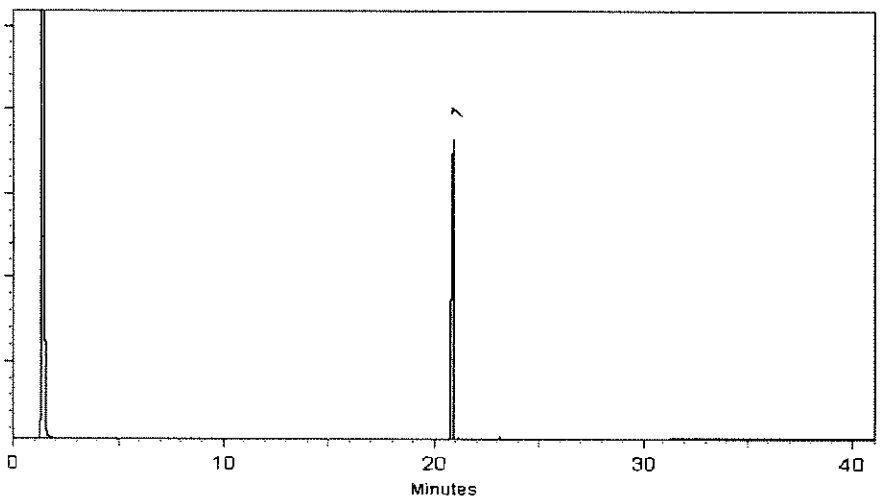
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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

Morgan Craighead - Mix Technician

Date Mixed: 10-Jan-2023 **Balance Serial #** B442140311

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 12-Jan-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

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

Reagent

SMLIST2 SS S1_00017

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ilac-MRA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA 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.SEC **Lot No.:** A0195541

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 : March 31, 2024 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Conc. (in Methanol)	Expanded Uncertainty (k=2, 95% CL)
1	2-Picoline	109-06-8.SEC	PUXDM	99%	1,005.7 µg/mL	+/- 18.6212
2	N-Nitrosomethylethylamine	10595-95-6.SEC	RFS-156-7	99%	1,004.9 µg/mL	+/- 18.6064
3	Acrylamide	79-06-1.SEC	CQRXE	99%	1,005.2 µg/mL	+/- 18.6119
4	N-Nitrosodiethylamine	55-18-5.SEC	7943600	99%	1,005.1 µg/mL	+/- 18.6101
5	N-Nitrosopyrrolidine	930-55-2.SEC	13339800	99%	1,005.5 µg/mL	+/- 18.6175
6	o-Toluidine	95-53-4.SEC	42MPF	99%	1,005.1 µg/mL	+/- 18.6101
7	N-Nitrosomorpholine	59-89-2.SEC	13699600	99%	1,005.6 µg/mL	+/- 18.6193
8	N-Nitrosopiperidine	100-75-4.SEC	1-VAM-19-3	99%	1,005.0 µg/mL	+/- 18.6082
9	Phentermine (a,a-Dimethylphenethylamine)	122-09-8 *	S221011RSR	99%	1,006.0 µg/mL	+/- 18.6267
10	Quinoline	91-22-5.SEC	H15Y033	99%	1,005.3 µg/mL	+/- 18.6138
11	N-Nitrosodi-n-butylamine	924-16-3.SEC	13675000	99%	1,005.8 µg/mL	+/- 18.6230
12	1,4-Phenylenediamine	106-50-3.SEC	WL2EJ	99%	1,005.5 µg/mL	+/- 18.6175
13	1,4-Dinitrobenzene	100-25-4.SEC	3EUXH	99%	1,005.4 µg/mL	+/- 18.6156
14	1-Naphthylamine (1-aminonaphthalene)	134-32-7.SEC	RP220413	99%	1,005.0 µg/mL	+/- 18.6082
15	2-Naphthylamine (2-aminonaphthalene)	91-59-8.SEC	8532800	99%	1,004.9 µg/mL	+/- 18.6064

16	5-Nitro-o-toluidine	99-55-8.SEC FHM03	99%	1,005.4	µg/mL	+/- 18.6156
17	1,3,5-Trinitrobenzene	99-35-4.SEC 17599	99%	1,004.9	µg/mL	+/- 18.6064
18	Phenacetin	62-44-2.SEC NU3QA	99%	1,005.8	µg/mL	+/- 18.6230
19	4-Aminobiphenyl	92-67-1.SEC 81202620	99%	1,005.3	µg/mL	+/- 18.6138
20	Propyzamide	23950-58-5.SEBCCC3340	99%	1,005.4	µg/mL	+/- 18.6156
21	Pentachloronitrobenzene (quintozene)	82-68-8.SEC G990774	99%	1,005.1	µg/mL	+/- 18.6101
22	4-Nitroquinoline-N-oxide	56-57-5.SEC I2DRK	99%	1,005.3	µg/mL	+/- 18.6138
23	p-Dimethylaminoazobenzene	60-11-7.SEC RP220411S	99%	1,005.4	µg/mL	+/- 18.6156
24	3,3'-Dimethylbenzidine (o-tolidine)	119-93-7.SEC RP220405S	99%	1,005.6	µg/mL	+/- 18.6193
25	2-Acetylaminofluorene	53-96-3.SEC 5158200	99%	1,005.1	µg/mL	+/- 18.6101
26	4,4'-Methylene-bis(2-chloroaniline)	101-14-4.SEC RP220407S	96%	1,004.6	µg/mL	+/- 18.6015
27	Dibenz(a,h)acridine	226-36-8.SEC CM-710-188-1	99%	1,005.1	µg/mL	+/- 18.6101

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

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.**

Reagent

SMLIST2 SS S2_00027

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

ilac-MRA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic plus

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.SEC **Lot No.:** A0194106

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 : January 31, 2024 **Storage:** -20°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Component	CAS #	Lot #	Purity	Gravimetric	Expanded Uncertainty (95% C.L., k=2)
1	Methyl methanesulfonate	66-27-3.SEC	LO7ZB	99%	1,006.8 µg/mL	+/- 23.1130
2	Ethyl methanesulfonate	62-50-0.SEC	10207660	99%	1,006.8 µg/mL	+/- 23.1130
3	Pentachloroethane	76-01-7.SEC	786507	99%	1,005.8 µg/mL	+/- 23.0901
4	Hexachloropropene	1888-71-7.SEC	9044200	98%	1,003.1 µg/mL	+/- 23.0287
5	Isosafrole (cis & trans) 12% cis; 88% trans	120-58-1.SEC	6732500	99%	1,002.4 µg/mL	+/- 23.0120
6	1-Chloronaphthalene	90-13-1 *	K2OBC	99%	1,003.4 µg/mL	+/- 23.0350
7	1,4-Naphthoquinone	130-15-4.SEC	FQB5E	99%	1,006.4 µg/mL	+/- 23.1038
8	Pentachlorobenzene	608-93-5.SEC	7639800	99%	1,005.0 µg/mL	+/- 23.0717
9	2,3,5,6-Tetrachlorophenol	935-95-5.SEC	5150900	98%	1,001.8 µg/mL	+/- 22.9972
10	Dinoseb	88-85-7.SEC	10589700	99%	1,008.8 µg/mL	+/- 23.1589
11	Isodrin	465-73-6.SEC	G172913	98%	1,008.8 µg/mL	+/- 23.1592
12	Chlorobenzilate	510-15-6.SEC	G171850	99%	1,004.0 µg/mL	+/- 23.0487
13	7,12-Dimethylbenz(a)anthracene	57-97-6.SEC	10589600	99%	1,008.2 µg/mL	+/- 23.1452

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

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.**

Quality Confirmation Test

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.)

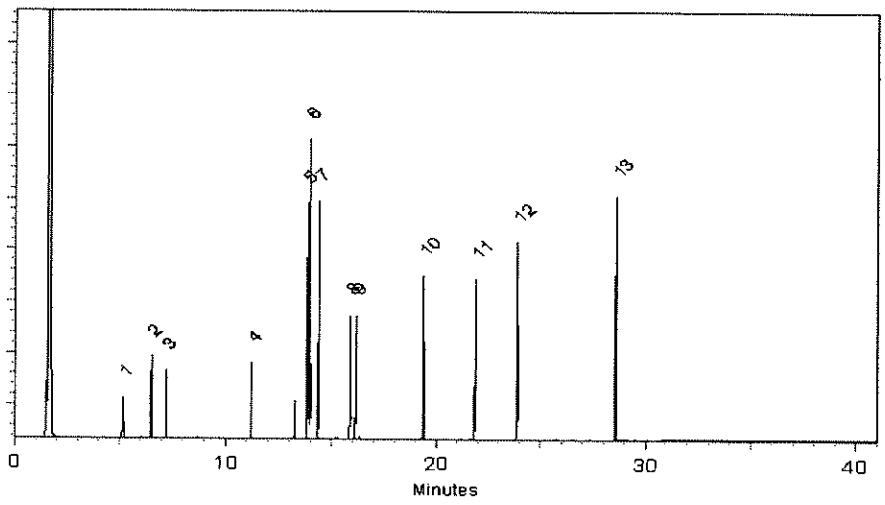
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
0.2µl



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

Jess Hoy - Operations Tech I

Date Mixed: 30-Jan-2023 **Balance Serial #** 1128353505

Christie Mills - Operations Tech II - ARM QC

Date Passed: 06-Feb-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

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

Reagent

SMLIST2 SS S3_00022

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA 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.SEC **Lot No.:** A0194830

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 : February 29, 2024 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Result Order	Component	CAS #	Lot #	Purity	Grav. Conc. (weight prepared)	Expanded Uncertainty * (95% CI, k=2)
1	6-Methylchrysene	1705-85-7.SEC	012016	99%	2,011.2 µg/mL	+/- 90.6186
2	3-Methylcholanthrene	56-49-5 *	MKCM7171	98%	2,001.4 µg/mL	+/- 90.1751

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

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.**

Quality Confirmation Test

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.)

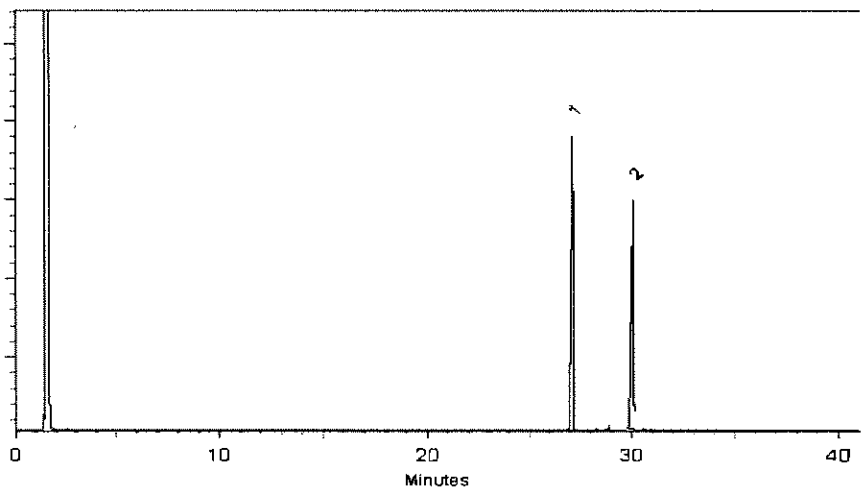
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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

Alicia Leathers - Operation Technician I **Date Mixed:** 20-Feb-2023 **Balance Serial #** 1128353505

Martina Cowan – Operations Tech II ARM QC **Date Passed:** 23-Feb-2023

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

Reagent

SMLIST2 SS S4_00016

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 567681.SEC **Lot No.:** A0198147

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 : May 31, 2025 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Analyte Order	Compound	CAS #	Lot #	Purity	Conc. Gravimetric	Expanded Uncertainty (k=2)
1	o,o,o-Triethyl phosphorothioate	126-68-1 *	2-KRR-57-1	98%	1,004.3 µg/mL	+/- 45.8487
2	Safrole	94-59-7.SEC	793000	99%	1,005.0 µg/mL	+/- 45.8805
3	Zinophos (thionazine)	297-97-2.SEC	G132164	99%	1,005.4 µg/mL	+/- 45.8988
4	Sulfotepp	3689-24-5.SEC	G1018121	99%	1,005.0 µg/mL	+/- 45.8805
5	Diallate (cis and trans) 75% cis-Isomer; 25% trans-Isomer	2303-16-4.SEC	G1112714	96%	1,007.0 µg/mL	+/- 45.9736
6	Phorate	298-02-2.SEC	G1027770	97%	1,005.9 µg/mL	+/- 45.9211
7	Dimethoate	60-51-5.SEC	109217	99%	1,006.4 µg/mL	+/- 45.9444
8	Disulfoton	298-04-4.SEC	G145970	99%	1,005.4 µg/mL	+/- 45.8988
9	Methyl parathion	298-00-0.SEC	G129164	99%	1,006.2 µg/mL	+/- 45.9353
10	Parathion (ethyl parathion)	56-38-2.SEC	G166343	99%	1,005.0 µg/mL	+/- 45.8805
11	Aramite 6% Isomer 1; 6% Isomer 2; 42% Isomer 3; 46% Isomer 4	140-57-8 *	13166600	76%	1,004.0 µg/mL	+/- 45.8330
12	Famphur	52-85-7.SEC	40512	99%	1,006.6 µg/mL	+/- 45.9535

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

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.**

Quality Confirmation Test

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.)

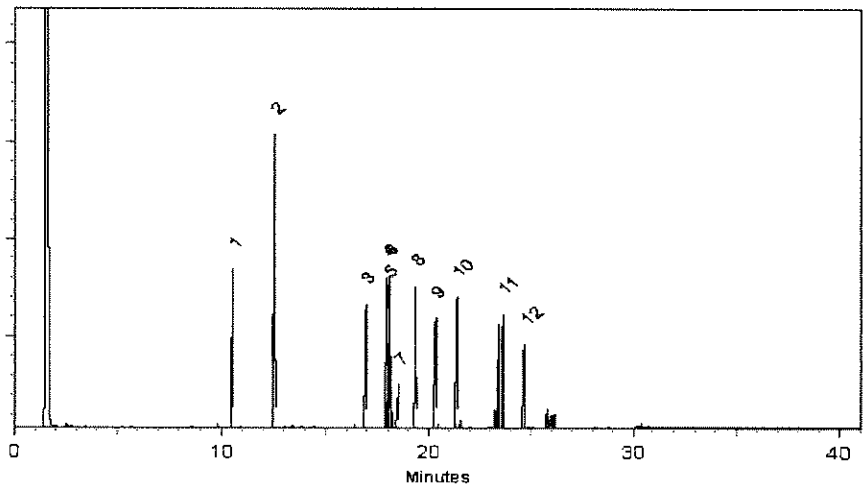
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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

Jess Hoy - Operations Tech I — **Date Mixed:** 16-May-2023 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC — **Date Passed:** 19-May-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

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

Reagent

SMLIST2 SS S5_00013

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 567682.SEC **Lot No.:** A0183881

Description : 8270 List 2 / Std #5 Methapyrilene

8270 List 2 / Std #5 Methapyrilene 2,000µg/mL, Methylene Chloride, 1mL/ampul
*The reported compound masses are for Methapyrilene HCl. Purity is adjusted to correct for the HCl salt. The reported concentration is of Methapyrilene.

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

Expiration Date : April 30, 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	Methapyrilene hydrochloride	2,018.9 µg/mL	+/- 11.9918	µg/mL	Gravimetric
	CAS # 135-23-9.sec (Lot B2020)		+/- 24.2587	µg/mL	Unstressed
	Purity 87%		+/- 38.4877	µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Specific Reference Material Notes:
*The reported compound masses are for Methapyrilene HCl. Purity is adjusted to correct for the HCl salt. The reported concentration is of Methapyrilene, CAS # 91-80-5

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

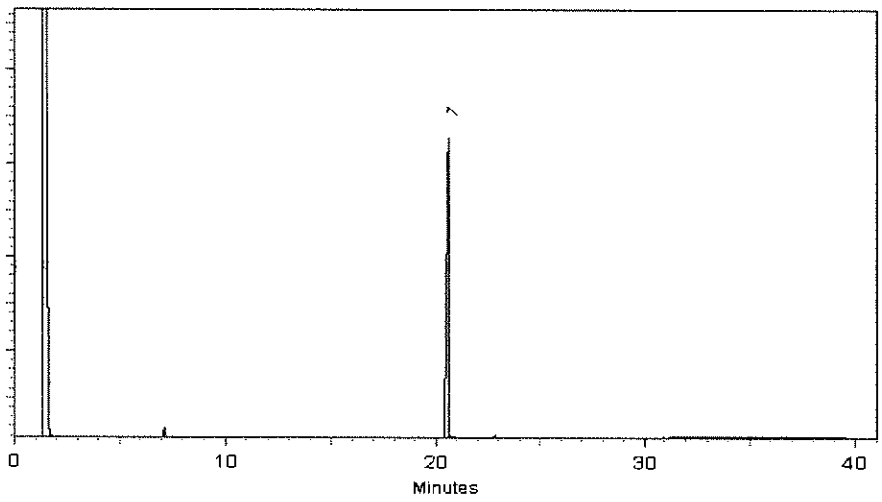
Carrier Gas:
hydrogen-constant pressure 10 psi.

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.

John Friedline - Operations Technician I

Date Mixed: 08-Apr-2022 **Balance:** 1128353505

Clara Windle - Operations Technician I

Date Passed: 12-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

vm30026_00004

VM30026_00004 Rcvd 6/3/22

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. : 30026 **Lot No.:** A0181998

Description : 4-Bromofluorobenzene Mixture

4-Bromofluorobenzene 2000µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : February 28, 2027 **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-Bromo-4-fluorobenzene (BFB)	2,002.0 µg/mL	+/- 11.7489	µg/mL	Gravimetric
	CAS # 460-00-4 (Lot 20401KO)		+/- 112.2615	µg/mL	Unstressed
	Purity 99%		+/- 114.8878	µg/mL	Stressed

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

Reagent

VM567650_00036

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 567650 **Lot No.:** A0156891

Description : 8260 Surrogate Standard

8260 Surrogate Standard 2,500µg/mL, P&T Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

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

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dibromofluoromethane		2,510.9 µg/mL	+/- 14.5986 µg/mL		Gravimetric
	CAS # 1868-53-7	(Lot 0012016)		+/- 140.7837 µg/mL		Unstressed
	Purity 99%			+/- 144.0778 µg/mL		Stressed
2	1,2-Dichloroethane-d4		2,510.2 µg/mL	+/- 14.5945 µg/mL		Gravimetric
	CAS # 17060-07-0	(Lot PR-29377)		+/- 140.7444 µg/mL		Unstressed
	Purity 99%			+/- 144.0377 µg/mL		Stressed
3	Toluene-d8		2,513.0 µg/mL	+/- 14.6105 µg/mL		Gravimetric
	CAS # 2037-26-5	(Lot I-21928)		+/- 140.8986 µg/mL		Unstressed
	Purity 99%			+/- 144.1955 µg/mL		Stressed
4	1-Bromo-4-fluorobenzene (BFB)		2,514.4 µg/mL	+/- 14.6186 µg/mL		Gravimetric
	CAS # 460-00-4	(Lot 20401KO)		+/- 140.9771 µg/mL		Unstressed
	Purity 99%			+/- 144.2758 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)

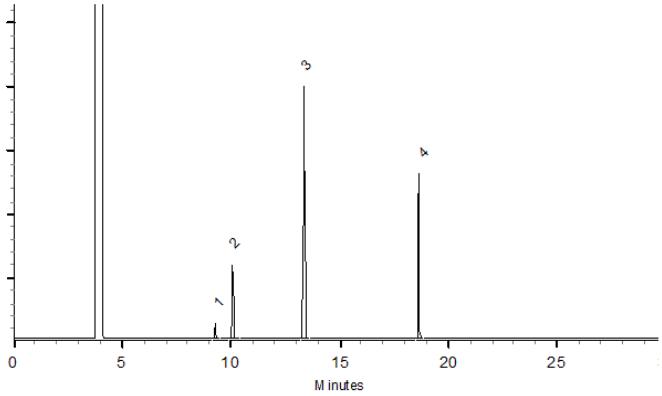
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Cydnei L. Crust - Mix Technician

Date Mixed: 19-Jan-2020 **Balance:** B251644995

Justine Albertson - Operations Tech-ARM QC

Date Passed: 21-Jan-2020

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

VM568718_00026

Rec'd 3/14/23 VM568718_00026

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ilac-MRA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA 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. : 568718 **Lot No.:** A0193519

Description : 8260 Internal Standard 2014

8260 Internal Standard 2014 250-5,000µg/mL, P&T Methanol/Water (90:10), 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	tert-Butyl-d9-alcohol	25725-11-5	CD-107	99%	5,049.8 µg/mL	+/- 62.7151
2	2-Butanone-d5	24313-50-6	M-276	99%	1,262.0 µg/mL	+/- 15.6735
3	Fluorobenzene	462-06-6	BCBZ5549	99%	249.6 µg/mL	+/- 3.1015
4	1,4-Dioxane-d8	17647-74-4	RP221227	99%	5,048.7 µg/mL	+/- 62.7020
5	Chlorobenzene-d5	3114-55-4	PR-29571	99%	252.5 µg/mL	+/- 3.1369
6	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	252.5 µg/mL	+/- 3.1369

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

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

Reagent

VM568720_00043

VM 568720 — 00043 Rd 9/21/22

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. : 568720 **Lot No.:** A0182162

Description : 8260 List 1/Std #5 Acrolein High

8260 List 1/Std #5 Acrolein High 19,750µg/mL, Water, 1mL/ampul

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

Expiration Date : August 31, 2023 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acrolein	19,750.0 µg/mL	+/- 115.6406 µg/mL	Gravimetric
	CAS # 107-02-8 (Lot RD220120)		+/- 394.5522 µg/mL	Unstressed
	Purity 99%		+/- 885.1676 µg/mL	Stressed

Solvent: Water
CAS # 7732-18-5
Purity 99%

Reagent

VM568720S_00042

VM568720SEC — 00042

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. : 568720.SEC **Lot No.:** A0181935

Description : 8260 List 1/Std #5 Acrolein High

8260 List 1/Std #5 Acrolein High 19,750µg/mL, Water, 1mL/ampul

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

Expiration Date : August 31, 2023 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acrolein		19,756.8 µg/mL	+/- 115.6804	µg/mL	Gravimetric
	CAS # 107-02-8.SEC	(Lot D8402600-1024)		+/- 394.6881	µg/mL	Unstressed
	Purity 98%			+/- 885.4724	µg/mL	Stressed

Solvent: Water
CAS # 7732-18-5
Purity 99%

Reagent

VM569721_00008

VM569721_00008

Rec'd 9-21-22

RESTEK CERTIFIED REFERENCE MATERIAL

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

www.restek.com

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. : 569721 **Lot No.:** A0186508

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 : June 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	Acetone		12,514.5 µg/mL	+/- 73.2751	µg/mL	Gravimetric
	CAS # 67-64-1	(Lot MKCQ7914)		+/- 755.1050	µg/mL	Unstressed
	Purity 99%			+/- 756.8975	µg/mL	Stressed
2	2-Butanone (MEK)		12,543.5 µg/mL	+/- 73.4450	µg/mL	Gravimetric
	CAS # 78-93-3	(Lot SHBN2844)		+/- 756.8548	µg/mL	Unstressed
	Purity 99%			+/- 758.6515	µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)		12,528.5 µg/mL	+/- 73.3571	µg/mL	Gravimetric
	CAS # 108-10-1	(Lot SHBN3601)		+/- 755.9498	µg/mL	Unstressed
	Purity 99%			+/- 757.7443	µg/mL	Stressed
4	2-Hexanone		12,528.0 µg/mL	+/- 73.3542	µg/mL	Gravimetric
	CAS # 591-78-6	(Lot MKCQ6663)		+/- 755.9196	µg/mL	Unstressed
	Purity 99%			+/- 757.7140	µg/mL	Stressed

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

Reagent

vm569722_00026

Rec'd 4/20/23 JM 569722 00026

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA

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. : 569722 **Lot No.:** A0189184

Description : 8260 List 1 / Std #3 Gases (2015)

8260 List 1 / Std #3 Gases (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : August 31, 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	Dichlorodifluoromethane (CFC-12)	2,500.3 µg/mL	+/- 18.6878 µg/mL	Gravimetric
	CAS # 75-71-8 (Lot 00012554)		+/- 140.6792 µg/mL	Unstressed
	Purity 99%		+/- 143.9483 µg/mL	Stressed
2	Chloromethane (methyl chloride)	2,500.0 µg/mL	+/- 17.9318 µg/mL	Gravimetric
	CAS # 74-87-3 (Lot SHBK6571)		+/- 140.5648 µg/mL	Unstressed
	Purity 99%		+/- 143.8357 µg/mL	Stressed
3	Vinyl chloride	2,500.2 µg/mL	+/- 20.7208 µg/mL	Gravimetric
	CAS # 75-01-4 (Lot 00015559)		+/- 140.9576 µg/mL	Unstressed
	Purity 99%		+/- 144.2201 µg/mL	Stressed
4	1,3-Butadiene	2,499.9 µg/mL	+/- 18.9759 µg/mL	Gravimetric
	CAS # 106-99-0 (Lot 00019375)		+/- 140.6968 µg/mL	Unstressed
	Purity 99%		+/- 143.9645 µg/mL	Stressed
5	Bromomethane (methyl bromide)	2,500.1 µg/mL	+/- 19.8264 µg/mL	Gravimetric
	CAS # 74-83-9 (Lot 101604)		+/- 140.8262 µg/mL	Unstressed
	Purity 99%		+/- 144.0915 µg/mL	Stressed
6	Chloroethane (ethyl chloride)	2,500.6 µg/mL	+/- 23.7833 µg/mL	Gravimetric
	CAS # 75-00-3 (Lot 107-401039114-1)		+/- 141.4639 µg/mL	Unstressed
	Purity 99%		+/- 144.7161 µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)	2,500.0 µg/mL	+/- 14.5352 µg/mL	Gravimetric
	CAS # 75-43-4 (Lot 12841600)		+/- 140.1725 µg/mL	Unstressed
	Purity 99%		+/- 143.4524 µg/mL	Stressed

Reagent

VM569723_00010

Rec'd 8/19/22 VM569723 — 00010

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 569723 **Lot No.:** A0176827

Description : 8260 List 1 / Std #4 2-CEVE (2015)

8260 List 1 / Std #4 2-CEVE (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : September 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	2-Chloroethyl vinyl ether **CAS #** 110-75-8 (Lot MKCD0033) **Purity** 99%	2,505.0 µg/mL	+/- 14.7007 µg/mL +/- 53.6696 µg/mL +/- 55.2277 µg/mL	Gravimetric Unstressed 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.

Reagent

VM569724_00028

VM569724 — 00028 Rcvd 9/21/22

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. : 569724 **Lot No.:** A0187365

Description : 8260 List 1 / Std #6 Vinyl Acetate (2015)

8260 List 1 / Std #6 Vinyl Acetate (2015) 5,000µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : January 31, 2024 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Vinyl acetate	5,022.0 µg/mL	+/- 29.4049	µg/mL	Gravimetric
	CAS # 108-05-4 (Lot RD220630)		+/- 303.0195	µg/mL	Unstressed
	Purity 99%		+/- 303.7388	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.

Reagent

VM571992_00006

VM571992 — 00006 Rc'd 10/31/22

RESTEK® CERTIFIED REFERENCE MATERIAL

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

www.restek.com

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. : 571992 **Lot No.:** A0183568

Description : 8260 List 1 / Std #1 MegaMix (2017)

8260 List 1 / Std #1 MegaMix (2017) 1,250-62,500µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : September 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	Diethyl ether (ethyl ether) **CAS #** 60-29-7 (Lot SHBN4280) **Purity** 99%	2,506.6 µg/mL	+/- 14.5737 µg/mL +/- 151.2358 µg/mL +/- 151.5949 µg/mL	Gravimetric Unstressed Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113) **CAS #** 76-13-1 (Lot 00016133) **Purity** 99%	2,514.5 µg/mL	+/- 14.6195 µg/mL +/- 151.7109 µg/mL +/- 152.0711 µg/mL	Gravimetric Unstressed Stressed
3	1,1-dichloroethene **CAS #** 75-35-4 (Lot SHBG8609V) **Purity** 99%	2,515.1 µg/mL	+/- 14.6232 µg/mL +/- 151.7486 µg/mL +/- 152.1089 µg/mL	Gravimetric Unstressed Stressed
4	tert-Butanol (TBA) **CAS #** 75-65-0 (Lot 101619K21F-1) **Purity** 99%	25,080.8 µg/mL	+/- 145.8140 µg/mL +/- 1,513.2321 µg/mL +/- 1,516.8247 µg/mL	Gravimetric Unstressed Stressed
5	Methyl acetate **CAS #** 79-20-9 (Lot SHBM1320) **Purity** 99%	5,026.6 µg/mL	+/- 29.2252 µg/mL +/- 303.2786 µg/mL +/- 303.9986 µg/mL	Gravimetric Unstressed Stressed
6	Iodomethane (methyl iodide) **CAS #** 74-88-4 (Lot RD220125) **Purity** 99%	2,505.3 µg/mL	+/- 14.5657 µg/mL +/- 151.1528 µg/mL +/- 151.5117 µg/mL	Gravimetric Unstressed Stressed
7	Allyl chloride (3-chloropropene) **CAS #** 107-05-1 (Lot RD211021) **Purity** 99%	2,509.1 µg/mL	+/- 14.5883 µg/mL +/- 151.3866 µg/mL +/- 151.7460 µg/mL	Gravimetric Unstressed Stressed

8	Methylene chloride (dichloromethane)		2,513.3	µg/mL	+/-	14.6123	µg/mL	Gravimetric
	CAS # 75-09-2	(Lot SHBP1417)			+/-	151.6355	µg/mL	Unstressed
	Purity 99%				+/-	151.9955	µg/mL	Stressed
9	Carbon disulfide		2,510.1	µg/mL	+/-	14.5941	µg/mL	Gravimetric
	CAS # 75-15-0	(Lot N28F701)			+/-	151.4470	µg/mL	Unstressed
	Purity 99%				+/-	151.8065	µg/mL	Stressed
10	Acrylonitrile		25,102.9	µg/mL	+/-	145.9426	µg/mL	Gravimetric
	CAS # 107-13-1	(Lot SHBK4954)			+/-	1,514.5670	µg/mL	Unstressed
	Purity 99%				+/-	1,518.1628	µg/mL	Stressed
11	Methyl-tert-butyl ether (MTBE)		2,513.8	µg/mL	+/-	14.6152	µg/mL	Gravimetric
	CAS # 1634-04-4	(Lot SHBN6497)			+/-	151.6657	µg/mL	Unstressed
	Purity 99%				+/-	152.0258	µg/mL	Stressed
12	cis-1,2-Dichloroethene		2,515.1	µg/mL	+/-	14.6232	µg/mL	Gravimetric
	CAS # 156-59-2	(Lot MKCP7830)			+/-	151.7486	µg/mL	Unstressed
	Purity 99%				+/-	152.1089	µg/mL	Stressed
13	n-Hexane (C6)		2,515.5	µg/mL	+/-	14.6253	µg/mL	Gravimetric
	CAS # 110-54-3	(Lot SHBL9879)			+/-	151.7713	µg/mL	Unstressed
	Purity 99%				+/-	152.1316	µg/mL	Stressed
14	1,1-Dichloroethane		2,517.9	µg/mL	+/-	14.6391	µg/mL	Gravimetric
	CAS # 75-34-3	(Lot 760200)			+/-	151.9146	µg/mL	Unstressed
	Purity 99%				+/-	152.2752	µg/mL	Stressed
15	2,2-Dichloropropane		2,517.9	µg/mL	+/-	14.6391	µg/mL	Gravimetric
	CAS # 594-20-7	(Lot RD211103)			+/-	151.9146	µg/mL	Unstressed
	Purity 99%				+/-	152.2752	µg/mL	Stressed
16	trans-1,2-Dichloroethene		2,511.4	µg/mL	+/-	14.6014	µg/mL	Gravimetric
	CAS # 156-60-5	(Lot MKBH9850V)			+/-	151.5224	µg/mL	Unstressed
	Purity 99%				+/-	151.8821	µg/mL	Stressed
17	Isobutanol (2-Methyl-1-propanol)		62,633.1	µg/mL	+/-	364.1354	µg/mL	Gravimetric
	CAS # 78-83-1	(Lot 098794J01H)			+/-	3,778.9321	µg/mL	Unstressed
	Purity 99%				+/-	3,787.9040	µg/mL	Stressed
18	chloroform		2,510.9	µg/mL	+/-	14.5984	µg/mL	Gravimetric
	CAS # 67-66-3	(Lot SHBN8469)			+/-	151.4922	µg/mL	Unstressed
	Purity 99%				+/-	151.8519	µg/mL	Stressed
19	Bromochloromethane		2,517.0	µg/mL	+/-	14.6341	µg/mL	Gravimetric
	CAS # 74-97-5	(Lot 00008541)			+/-	151.8618	µg/mL	Unstressed
	Purity 99%				+/-	152.2223	µg/mL	Stressed
20	Tetrahydrofuran		5,036.1	µg/mL	+/-	29.2805	µg/mL	Gravimetric
	CAS # 109-99-9	(Lot SHBN3757)			+/-	303.8517	µg/mL	Unstressed
	Purity 99%				+/-	304.5731	µg/mL	Stressed
21	1,1,1-trichloroethane		2,509.6	µg/mL	+/-	14.5912	µg/mL	Gravimetric
	CAS # 71-55-6	(Lot RD220215)			+/-	151.4168	µg/mL	Unstressed
	Purity 99%				+/-	151.7763	µg/mL	Stressed
22	Cyclohexane		2,510.0	µg/mL	+/-	14.5934	µg/mL	Gravimetric
	CAS # 110-82-7	(Lot EA003-US)			+/-	151.4394	µg/mL	Unstressed
	Purity 99%				+/-	151.7990	µg/mL	Stressed
23	1,1-Dichloropropene		2,513.8	µg/mL	+/-	14.6152	µg/mL	Gravimetric
	CAS # 563-58-6	(Lot 220217JLM)			+/-	151.6657	µg/mL	Unstressed
	Purity 99%				+/-	152.0258	µg/mL	Stressed

24	carbon tetrachloride		2,513.5	µg/mL	+/-	14.6137	µg/mL	Gravimetric
	CAS # 56-23-5	(Lot SHBL8097)			+/-	151.6506	µg/mL	Unstressed
	Purity 99%				+/-	152.0106	µg/mL	Stressed
25	n-Heptane (C7)		2,511.4	µg/mL	+/-	14.6014	µg/mL	Gravimetric
	CAS # 142-82-5	(Lot SGBL9221)			+/-	151.5224	µg/mL	Unstressed
	Purity 99%				+/-	151.8821	µg/mL	Stressed
26	1,2-Dichloroethane		2,514.4	µg/mL	+/-	14.6188	µg/mL	Gravimetric
	CAS # 107-06-2	(Lot MKCN9758)			+/-	151.7034	µg/mL	Unstressed
	Purity 99%				+/-	152.0636	µg/mL	Stressed
27	Benzene		2,509.3	µg/mL	+/-	14.5890	µg/mL	Gravimetric
	CAS # 71-43-2	(Lot MKCM9242)			+/-	151.3942	µg/mL	Unstressed
	Purity 99%				+/-	151.7536	µg/mL	Stressed
28	Trichloroethene		2,507.5	µg/mL	+/-	14.5788	µg/mL	Gravimetric
	CAS # 79-01-6	(Lot SHBL5816)			+/-	151.2886	µg/mL	Unstressed
	Purity 99%				+/-	151.6478	µg/mL	Stressed
29	Methylcyclohexane		2,510.3	µg/mL	+/-	14.5948	µg/mL	Gravimetric
	CAS # 108-87-2	(Lot SHBL0078)			+/-	151.4545	µg/mL	Unstressed
	Purity 99%				+/-	151.8141	µg/mL	Stressed
30	1,2-Dichloropropane		2,510.9	µg/mL	+/-	14.5984	µg/mL	Gravimetric
	CAS # 78-87-5	(Lot BCBR0882V)			+/-	151.4922	µg/mL	Unstressed
	Purity 99%				+/-	151.8519	µg/mL	Stressed
31	1,4-Dioxane		50,187.5	µg/mL	+/-	291.7792	µg/mL	Gravimetric
	CAS # 123-91-1	(Lot SHBM9675)			+/-	3,028.0328	µg/mL	Unstressed
	Purity 99%				+/-	3,035.2219	µg/mL	Stressed
32	Dibromomethane		2,511.0	µg/mL	+/-	14.5992	µg/mL	Gravimetric
	CAS # 74-95-3	(Lot 10201030)			+/-	151.4998	µg/mL	Unstressed
	Purity 99%				+/-	151.8594	µg/mL	Stressed
33	cis-1,3-Dichloropropene		2,513.8	µg/mL	+/-	14.6152	µg/mL	Gravimetric
	CAS # 10061-01-5	(Lot RD220311)			+/-	151.6657	µg/mL	Unstressed
	Purity 99%				+/-	152.0258	µg/mL	Stressed
34	Toluene		2,518.4	µg/mL	+/-	14.6420	µg/mL	Gravimetric
	CAS # 108-88-3	(Lot MKCQ2779)			+/-	151.9447	µg/mL	Unstressed
	Purity 99%				+/-	152.3055	µg/mL	Stressed
35	Ethyl methacrylate		2,511.4	µg/mL	+/-	14.6014	µg/mL	Gravimetric
	CAS # 97-63-2	(Lot MKCL0907)			+/-	151.5224	µg/mL	Unstressed
	Purity 99%				+/-	151.8821	µg/mL	Stressed
36	trans-1,3-Dichloropropene		2,504.5	µg/mL	+/-	14.5615	µg/mL	Gravimetric
	CAS # 10061-02-6	(Lot RD211104)			+/-	151.1083	µg/mL	Unstressed
	Purity 98%				+/-	151.4671	µg/mL	Stressed
37	1,1,2-Trichloroethane		2,513.6	µg/mL	+/-	14.6144	µg/mL	Gravimetric
	CAS # 79-00-5	(Lot FGB01)			+/-	151.6581	µg/mL	Unstressed
	Purity 99%				+/-	152.0182	µg/mL	Stressed
38	1,3-Dichloropropane		2,513.6	µg/mL	+/-	14.6144	µg/mL	Gravimetric
	CAS # 142-28-9	(Lot BCBC6265)			+/-	151.6581	µg/mL	Unstressed
	Purity 99%				+/-	152.0182	µg/mL	Stressed
39	Tetrachloroethene		2,507.5	µg/mL	+/-	14.5788	µg/mL	Gravimetric
	CAS # 127-18-4	(Lot SHBJ7422)			+/-	151.2886	µg/mL	Unstressed
	Purity 99%				+/-	151.6478	µg/mL	Stressed

40	dibromochloromethane		2,514.8	µg/mL	+/-	14.6210	µg/mL	Gravimetric
	CAS # 124-48-1	(Lot MKCM8659)			+/-	151.7260	µg/mL	Unstressed
	Purity 99%				+/-	152.0862	µg/mL	Stressed
41	1,2-Dibromoethane (EDB)		2,513.9	µg/mL	+/-	14.6159	µg/mL	Gravimetric
	CAS # 106-93-4	(Lot BCCF5058)			+/-	151.6732	µg/mL	Unstressed
	Purity 99%				+/-	152.0333	µg/mL	Stressed
42	Chlorobenzene		2,507.9	µg/mL	+/-	14.5810	µg/mL	Gravimetric
	CAS # 108-90-7	(Lot SHBL8110)			+/-	151.3112	µg/mL	Unstressed
	Purity 99%				+/-	151.6704	µg/mL	Stressed
43	m-Xylene		1,260.0	µg/mL	+/-	7.3257	µg/mL	Gravimetric
	CAS # 108-38-3	(Lot Q13G020)			+/-	76.0214	µg/mL	Unstressed
	Purity 99%				+/-	76.2019	µg/mL	Stressed
44	p-Xylene		1,258.6	µg/mL	+/-	7.3178	µg/mL	Gravimetric
	CAS # 106-42-3	(Lot 10234437)			+/-	75.9384	µg/mL	Unstressed
	Purity 99%				+/-	76.1187	µg/mL	Stressed
45	Ethylbenzene		2,516.0	µg/mL	+/-	14.6282	µg/mL	Gravimetric
	CAS # 100-41-4	(Lot SHBM4308)			+/-	151.8014	µg/mL	Unstressed
	Purity 99%				+/-	152.1618	µg/mL	Stressed
46	1,1,1,2-Tetrachloroethane		2,519.1	µg/mL	+/-	14.6464	µg/mL	Gravimetric
	CAS # 630-20-6	(Lot TMWGK)			+/-	151.9900	µg/mL	Unstressed
	Purity 99%				+/-	152.3508	µg/mL	Stressed
47	o-Xylene		2,513.5	µg/mL	+/-	14.6134	µg/mL	Gravimetric
	CAS # 95-47-6	(Lot SHBN5105)			+/-	151.6479	µg/mL	Unstressed
	Purity 98%				+/-	152.0079	µg/mL	Stressed
48	Styrene		2,509.1	µg/mL	+/-	14.5883	µg/mL	Gravimetric
	CAS # 100-42-5	(Lot MKCP3941)			+/-	151.3866	µg/mL	Unstressed
	Purity 99%				+/-	151.7460	µg/mL	Stressed
49	Isopropylbenzene (cumene)		2,518.5	µg/mL	+/-	14.6428	µg/mL	Gravimetric
	CAS # 98-82-8	(Lot Z20D022)			+/-	151.9523	µg/mL	Unstressed
	Purity 99%				+/-	152.3130	µg/mL	Stressed
50	bromoform		2,511.0	µg/mL	+/-	14.5992	µg/mL	Gravimetric
	CAS # 75-25-2	(Lot SHBK4455)			+/-	151.5001	µg/mL	Unstressed
	Purity 98%				+/-	151.8597	µg/mL	Stressed
51	bromodichloromethane		2,518.1	µg/mL	+/-	14.6406	µg/mL	Gravimetric
	CAS # 75-27-4	(Lot MKCM7156)			+/-	151.9296	µg/mL	Unstressed
	Purity 99%				+/-	152.2903	µg/mL	Stressed
52	1,1,2,2-Tetrachloroethane		2,515.5	µg/mL	+/-	14.6253	µg/mL	Gravimetric
	CAS # 79-34-5	(Lot CFA4D)			+/-	151.7713	µg/mL	Unstressed
	Purity 99%				+/-	152.1316	µg/mL	Stressed
53	1,2,3-Trichloropropane		2,512.5	µg/mL	+/-	14.6079	µg/mL	Gravimetric
	CAS # 96-18-4	(Lot 332900)			+/-	151.5903	µg/mL	Unstressed
	Purity 99%				+/-	151.9502	µg/mL	Stressed
54	trans-1,4-dichloro-2-butene		2,511.8	µg/mL	+/-	14.6038	µg/mL	Gravimetric
	CAS # 110-57-6	(Lot RD220405A)			+/-	151.5480	µg/mL	Unstressed
	Purity 95%				+/-	151.9078	µg/mL	Stressed
55	n-Propylbenzene		2,515.6	µg/mL	+/-	14.6261	µg/mL	Gravimetric
	CAS # 103-65-1	(Lot MKCN1126)			+/-	151.7788	µg/mL	Unstressed
	Purity 99%				+/-	152.1392	µg/mL	Stressed

56	Bromobenzene		2,516.9	µg/mL	+/-	14.6333	µg/mL	Gravimetric
	CAS # 108-86-1	(Lot MKBD4032V)			+/-	151.8542	µg/mL	Unstressed
	Purity 99%				+/-	152.2147	µg/mL	Stressed
57	1,3,5-Trimethylbenzene		2,512.3	µg/mL	+/-	14.6064	µg/mL	Gravimetric
	CAS # 108-67-8	(Lot BCCD0427)			+/-	151.5752	µg/mL	Unstressed
	Purity 99%				+/-	151.9350	µg/mL	Stressed
58	2-Chlorotoluene		2,510.9	µg/mL	+/-	14.5984	µg/mL	Gravimetric
	CAS # 95-49-8	(Lot MKCF5243)			+/-	151.4922	µg/mL	Unstressed
	Purity 99%				+/-	151.8519	µg/mL	Stressed
59	4-Chlorotoluene		2,513.1	µg/mL	+/-	14.6115	µg/mL	Gravimetric
	CAS # 106-43-4	(Lot MKCC8496)			+/-	151.6280	µg/mL	Unstressed
	Purity 99%				+/-	151.9880	µg/mL	Stressed
60	tert-Butylbenzene		2,514.6	µg/mL	+/-	14.6202	µg/mL	Gravimetric
	CAS # 98-06-6	(Lot STBD6954V)			+/-	151.7185	µg/mL	Unstressed
	Purity 99%				+/-	152.0787	µg/mL	Stressed
61	1,2,4-Trimethylbenzene		2,517.1	µg/mL	+/-	14.6348	µg/mL	Gravimetric
	CAS # 95-63-6	(Lot WXBC9428V)			+/-	151.8696	µg/mL	Unstressed
	Purity 98%				+/-	152.2302	µg/mL	Stressed
62	sec-Butylbenzene		2,519.3	µg/mL	+/-	14.6471	µg/mL	Gravimetric
	CAS # 135-98-8	(Lot MKCN2920)			+/-	151.9975	µg/mL	Unstressed
	Purity 99%				+/-	152.3584	µg/mL	Stressed
63	p-Isopropyltoluene (p-Cymene)		2,512.0	µg/mL	+/-	14.6050	µg/mL	Gravimetric
	CAS # 99-87-6	(Lot MKCP6638)			+/-	151.5601	µg/mL	Unstressed
	Purity 99%				+/-	151.9199	µg/mL	Stressed
64	1,3-Dichlorobenzene		2,515.5	µg/mL	+/-	14.6253	µg/mL	Gravimetric
	CAS # 541-73-1	(Lot BCBZ7498)			+/-	151.7713	µg/mL	Unstressed
	Purity 99%				+/-	152.1316	µg/mL	Stressed
65	1,4-Dichlorobenzene		2,513.4	µg/mL	+/-	14.6130	µg/mL	Gravimetric
	CAS # 106-46-7	(Lot MKBS4401V)			+/-	151.6431	µg/mL	Unstressed
	Purity 99%				+/-	152.0031	µg/mL	Stressed
66	n-Butylbenzene		2,511.0	µg/mL	+/-	14.5992	µg/mL	Gravimetric
	CAS # 104-51-8	(Lot 09418JJ)			+/-	151.4998	µg/mL	Unstressed
	Purity 99%				+/-	151.8594	µg/mL	Stressed
67	1,2-Dichlorobenzene		2,511.4	µg/mL	+/-	14.6014	µg/mL	Gravimetric
	CAS # 95-50-1	(Lot SHBN3835)			+/-	151.5224	µg/mL	Unstressed
	Purity 99%				+/-	151.8821	µg/mL	Stressed
68	1,2-Dibromo-3-chloropropane		2,512.4	µg/mL	+/-	14.6074	µg/mL	Gravimetric
	CAS # 96-12-8	(Lot HBMVB)			+/-	151.5855	µg/mL	Unstressed
	Purity 97%				+/-	151.9454	µg/mL	Stressed
69	1,2,4-Trichlorobenzene		2,510.4	µg/mL	+/-	14.5955	µg/mL	Gravimetric
	CAS # 120-82-1	(Lot SHBM0526)			+/-	151.4620	µg/mL	Unstressed
	Purity 99%				+/-	151.8216	µg/mL	Stressed
70	Hexachlorobutadiene		2,509.3	µg/mL	+/-	14.5890	µg/mL	Gravimetric
	CAS # 87-68-3	(Lot X05J)			+/-	151.3942	µg/mL	Unstressed
	Purity 99%				+/-	151.7536	µg/mL	Stressed
71	Naphthalene		2,520.6	µg/mL	+/-	14.6551	µg/mL	Gravimetric
	CAS # 91-20-3	(Lot MKCH0219)			+/-	152.0805	µg/mL	Unstressed
	Purity 99%				+/-	152.4415	µg/mL	Stressed

72	1,2,3-Trichlorobenzene **CAS #** 87-61-6 **Purity** 99%	(Lot MKBX7627V)	2,513.0	µg/mL	+/- 14.6108 +/- 151.6204 +/- 151.9804	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

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

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

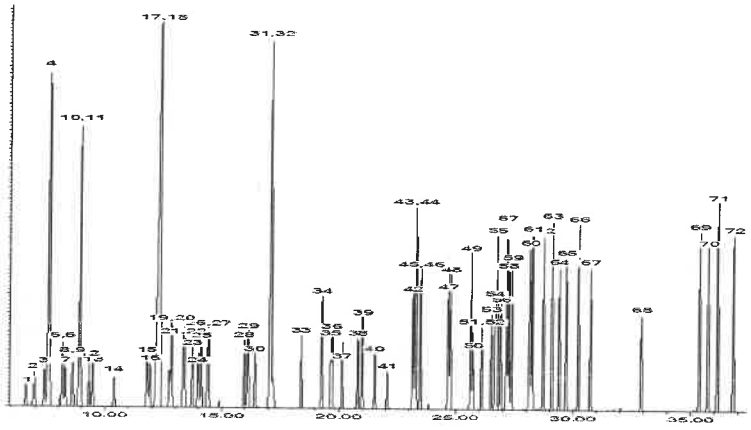
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 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: 31-Mar-2022 **Balance:** B707717271

Fang-Yun Lo - QC Analyst

Date Passed: 21-Apr-2022

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

Reagent

VM571992S_00009

VM 571992.SEC — 00009 Rec'd 6/19

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic plus

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. : 571992.SEC **Lot No.:** A0195252

Description : 8260 List 1 / Std #1 MegaMix (2017)

8260 List 1 / Std #1 MegaMix (2017) 1,250-62,500µg/mL, P&T Methanol, 1mL/ampul

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

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

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Diethyl ether (ethyl ether)	60-29-7.SEC	F23X068	99%	2,516.7 µg/mL	+/- 86.9644
2	1,1,2-Trichlorotrifluoroethane (CFC-113)	76-13-1.SEC	18342	99%	2,520.0 µg/mL	+/- 87.0795
3	1,1-Dichloroethene	75-35-4.SEC	13896500	99%	2,525.0 µg/mL	+/- 87.2523
4	tert-Butanol (TBA)	75-65-0.SEC	DI34O	99%	25,129.5 µg/mL	+/- 868.3580
5	Methyl acetate	79-20-9.SEC	UCNEL	99%	5,029.0 µg/mL	+/- 173.7790
6	Iodomethane (methyl iodide)	74-88-4.SEC	Y25A027	99%	2,521.7 µg/mL	+/- 87.1371
7	Allyl chloride (3-chloropropene)	107-05-1.SEC	RD210329	99%	2,518.2 µg/mL	+/- 87.0162
8	Methylene chloride (dichloromethane)	75-09-2.SEC	FGM02	99%	2,516.7 µg/mL	+/- 86.9644
9	Carbon disulfide	75-15-0.SEC	MKBL1376V	99%	2,511.7 µg/mL	+/- 86.7916
10	Acrylonitrile	107-13-1.SEC	V54AD	99%	25,200.3 µg/mL	+/- 870.8057
11	Methyl-tert-butyl ether (MTBE)	1634-04-4.SEC	CDCQG	99%	2,517.3 µg/mL	+/- 86.9874
12	cis-1,2-Dichloroethene	156-59-2.SEC	YZO5O	99%	2,515.3 µg/mL	+/- 86.9183
13	n-Hexane (C6)	110-54-3.SEC	10188491	99%	2,514.7 µg/mL	+/- 86.8953
14	1,1-Dichloroethane	75-34-3.SEC	1026.30-3	98%	2,512.6 µg/mL	+/- 86.8223
15	2,2-Dichloropropane	594-20-7.SEC	GI01	99%	2,521.5 µg/mL	+/- 87.1314
16	trans-1,2-Dichloroethene	156-60-5.SEC	L5QOH	99%	2,525.0 µg/mL	+/- 87.2523

17	Isobutanol (2-Methyl-1-propanol)	78-83-1.SEC	PH2XK	99%	62,830.8	µg/mL	+/- 2,171.1398
18	Chloroform	67-66-3.SEC	1297547	99%	2,511.7	µg/mL	+/- 86.7916
19	Bromochloromethane	74-97-5 *	230206JLM	99%	2,515.7	µg/mL	+/- 86.9298
20	Tetrahydrofuran	109-99-9.SEC	3NYHE	99%	5,018.5	µg/mL	+/- 173.4162
21	1,1,1-Trichloroethane	71-55-6.SEC	13891800	99%	2,506.5	µg/mL	+/- 86.6130
22	Cyclohexane	110-82-7.SEC	YADRA	99%	2,523.3	µg/mL	+/- 87.1947
23	1,1-Dichloropropene	563-58-6.SEC	556500	99%	2,520.5	µg/mL	+/- 87.0968
24	Carbon tetrachloride	56-23-5.SEC	11466	99%	2,520.5	µg/mL	+/- 87.0968
25	n-Heptane (C7)	142-82-5.SEC	TFHUC	99%	2,516.5	µg/mL	+/- 86.9586
26	1,2-Dichloroethane	107-06-2.SEC	00016165	99%	2,519.8	µg/mL	+/- 87.0738
27	Benzene	71-43-2.SEC	101960P29K	99%	2,518.8	µg/mL	+/- 87.0392
28	Trichloroethene	79-01-6.SEC	H04X050	99%	2,524.3	µg/mL	+/- 87.2293
29	Methylcyclohexane	108-87-2.SEC	Q02QG	99%	2,515.8	µg/mL	+/- 86.9356
30	1,2-Dichloropropane	78-87-5.SEC	ERRBI-RH	99%	2,516.8	µg/mL	+/- 86.9701
31	1,4-Dioxane	123-91-1.SEC	QHRWO	99%	50,137.2	µg/mL	+/- 1,732.5061
32	Dibromomethane	74-95-3.SEC	MOKKJ	99%	2,516.3	µg/mL	+/- 86.9528
33	cis-1,3-Dichloropropene	10061-01-5.SEC	ZZLXJ-TJ	99%	2,502.8	µg/mL	+/- 86.4863
34	Toluene	108-88-3.SEC	YND2B-BD	99%	2,522.2	µg/mL	+/- 87.1544
35	Ethyl methacrylate	97-63-2.SEC	AQSPO	99%	2,510.8	µg/mL	+/- 86.7628
36	trans-1,3-Dichloropropene	10061-02-6.SEC	DMSL	98%	2,517.1	µg/mL	+/- 86.9804
37	1,1,2-Trichloroethane	79-00-5.SEC	9245400	99%	2,512.2	µg/mL	+/- 86.8089
38	1,3-Dichloropropane	142-28-9.SEC	IQCON	99%	2,519.3	µg/mL	+/- 87.0565
39	Tetrachloroethene	127-18-4.SEC	F09W014	99%	2,521.3	µg/mL	+/- 87.1256
40	Dibromochloromethane	124-48-1.SEC	10234064	99%	2,517.5	µg/mL	+/- 86.9932
41	1,2-Dibromoethane (EDB)	106-93-4.SEC	050675P15E	99%	2,518.3	µg/mL	+/- 87.0220
42	Chlorobenzene	108-90-7.SEC	1161936	99%	2,515.8	µg/mL	+/- 86.9356
43	m-Xylene	108-38-3.SEC	7ZV6F	99%	1,255.3	µg/mL	+/- 43.3814
44	p-Xylene	106-42-3.SEC	D6UOA	99%	1,260.3	µg/mL	+/- 43.5541
45	Ethylbenzene	100-41-4.SEC	PI4SE	99%	2,517.7	µg/mL	+/- 86.9989
46	1,1,1,2-Tetrachloroethane	630-20-6.SEC	13789800	99%	2,517.5	µg/mL	+/- 86.9932
47	o-Xylene	95-47-6.SEC	UJ6RI	99%	2,515.8	µg/mL	+/- 86.9356
48	Styrene	100-42-5.SEC	QGQ7F	99%	2,521.3	µg/mL	+/- 87.1256
49	Isopropylbenzene (cumene)	98-82-8.SEC	7P24L	99%	2,515.0	µg/mL	+/- 86.9068
50	Bromoform	75-25-2.SEC	13723500	99%	2,522.5	µg/mL	+/- 87.1659
51	Bromodichloromethane	75-27-4.SEC	28128	99%	2,524.2	µg/mL	+/- 87.2235
52	1,1,2,2-Tetrachloroethane	79-34-5.SEC	BCCD5088	99%	2,523.7	µg/mL	+/- 87.2063

53	1,2,3-Trichloropropane	96-18-4.SEC 6V2ED	99%	2,522.2	µg/mL	+/- 87.1544
54	trans-1,4-Dichloro-2-butene	110-57-6.SEC RD230316RSR	96%	2,517.0	µg/mL	+/- 86.9745
55	n-Propylbenzene	103-65-1.SEC XCGEC	99%	2,518.8	µg/mL	+/- 87.0392
56	Bromobenzene	108-86-1.SEC 2FUHG-EM	99%	2,518.3	µg/mL	+/- 87.0220
57	1,3,5-Trimethylbenzene	108-67-8.SEC GI2SM	99%	2,514.3	µg/mL	+/- 86.8837
58	2-Chlorotoluene	95-49-8.SEC BRHPM	99%	2,515.7	µg/mL	+/- 86.9298
59	4-Chlorotoluene	106-43-4.SEC S5SKD	99%	2,518.8	µg/mL	+/- 87.0392
60	tert-Butylbenzene	98-06-6.SEC D6OHC	99%	2,522.0	µg/mL	+/- 87.1487
61	1,2,4-Trimethylbenzene	95-63-6.SEC JHZDD	99%	2,517.3	µg/mL	+/- 86.9874
62	sec-Butylbenzene	135-98-8.SEC O4HRF	99%	2,522.0	µg/mL	+/- 87.1487
63	4-Isopropyltoluene (p-cymene)	99-87-6.SEC 13889300	98%	2,518.1	µg/mL	+/- 87.0142
64	1,3-Dichlorobenzene	541-73-1.SEC ZA2ZI	99%	2,515.0	µg/mL	+/- 86.9068
65	1,4-Dichlorobenzene	106-46-7.SEC J5GVD	99%	2,522.5	µg/mL	+/- 87.1659
66	n-Butylbenzene	104-51-8.SEC MMPGA	99%	2,523.7	µg/mL	+/- 87.2063
67	1,2-Dichlorobenzene	95-50-1.SEC R6QDM	99%	2,512.0	µg/mL	+/- 86.8031
68	1,2-Dibromo-3-chloropropane	96-12-8.SEC Q135-105	99%	2,517.7	µg/mL	+/- 86.9989
69	1,2,4-Trichlorobenzene	120-82-1.SEC IGLFA	99%	2,515.7	µg/mL	+/- 86.9298
70	Hexachlorobutadiene	87-68-3.SEC 13889400	97%	2,520.4	µg/mL	+/- 87.0928
71	Naphthalene	91-20-3.SEC AM5NG	99%	2,520.0	µg/mL	+/- 87.0795
72	1,2,3-Trichlorobenzene	87-61-6.SEC A0043055	99%	2,517.8	µg/mL	+/- 87.0047

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

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.**

8260D

Volatile Organic Compounds by GC/MS

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
16C1	240-189273-1	104	110	105	98
16MW8	240-189273-2	105	111	106	99
16MW9	240-189273-3	102	110	106	97
16WC1A	240-189273-4	105	111	106	97
16WDUP	240-189273-5	104	110	105	98
16WC1B	240-189273-6	105	111	105	97
	MB 240-583235/7	104	110	104	99
	LCS 240-583235/4	106	108	106	103
16WC1A MS	240-189273-4 MS	103	107	105	101
16WC1A MSD	240-189273-4 MSD	108	110	106	103

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	73-120
DCA = 1,2-Dichloroethane-d4 (Surr)	62-137
TOL = Toluene-d8 (Surr)	78-122
BFB = 4-Bromofluorobenzene (Surr)	56-136

Column to be used to flag recovery values

FORM II 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 236501.D

Lab ID: LCS 240-583235/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acrolein	125	192	154	10-199	
trans-1,4-Dichloro-2-butene	25.0	11.4	46	14-173	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 236521.D

Lab ID: 240-189273-4 MS Client ID: 16WC1A MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Acrolein	125	10 U	196	157	10-190	
trans-1,4-Dichloro-2-butene	25.0	10 U	10.3	41	10-149	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 236522.D

Lab ID: 240-189273-4 MSD Client ID: 16WC1A MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acrolein	125	198	158	1	35	10-190	
trans-1,4-Dichloro-2-butene	25.0	10.4	42	1	26	10-149	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Lab File ID: 236504.D Lab Sample ID: MB 240-583235/7

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

Instrument ID: A3UX23 Date Analyzed: 08/08/2023 15:18

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 240-583235/4	236501.D	08/08/2023 14:03
16C1	240-189273-1	236515.D	08/08/2023 19:54
16MW8	240-189273-2	236516.D	08/08/2023 20:19
16MW9	240-189273-3	236517.D	08/08/2023 20:44
16WC1A	240-189273-4	236518.D	08/08/2023 21:09
16WDUP	240-189273-5	236519.D	08/08/2023 21:35
16WC1B	240-189273-6	236520.D	08/08/2023 22:00
16WC1A MS	240-189273-4 MS	236521.D	08/08/2023 22:25
16WC1A MSD	240-189273-4 MSD	236522.D	08/08/2023 22:50

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

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Lab File ID: BFB23433.D BFB Injection Date: 08/04/2023

Instrument ID: A3UX23 BFB Injection Time: 14:56

Analysis Batch No.: 582961

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	24.3	
75	30.0 - 60.0 % of mass 95	49.1	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.9	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	73.6	
175	5.0 - 9.0 % of mass 174	5.6	(7.6) 1
176	95.0 - 101.0 % of mass 174	70.3	(95.6) 1
177	5.0 - 9.0 % of mass 176	4.7	(6.7) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 240-582961/3	236428.D	08/04/2023	15:49
	IC 240-582961/4	236429.D	08/04/2023	16:14
	IC 240-582961/5	236430.D	08/04/2023	16:39
	IC 240-582961/6	236431.D	08/04/2023	17:04
	IC 240-582961/7	236432.D	08/04/2023	17:29
	ICIS 240-582961/8	236433.D	08/04/2023	17:54
	IC 240-582961/9	236434.D	08/04/2023	18:19
	IC 240-582961/10	236435.D	08/04/2023	18:44
	IC 240-582961/11	236436.D	08/04/2023	19:09
	ICV 240-582961/13	236438.D	08/04/2023	20:00

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

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Lab File ID: BFB23436.D BFB Injection Date: 08/08/2023

Instrument ID: A3UX23 BFB Injection Time: 11:43

Analysis Batch No.: 583235

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	25.3	
75	30.0 - 60.0 % of mass 95	49.7	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.8	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	74.7	
175	5.0 - 9.0 % of mass 174	5.5	(7.4) 1
176	95.0 - 101.0 % of mass 174	71.6	(95.8) 1
177	5.0 - 9.0 % of mass 176	4.7	(6.5) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 240-583235/3	236500.D	08/08/2023	13:38
	LCS 240-583235/4	236501.D	08/08/2023	14:03
	MB 240-583235/7	236504.D	08/08/2023	15:18
16C1	240-189273-1	236515.D	08/08/2023	19:54
16MW8	240-189273-2	236516.D	08/08/2023	20:19
16MW9	240-189273-3	236517.D	08/08/2023	20:44
16WC1A	240-189273-4	236518.D	08/08/2023	21:09
16WDUP	240-189273-5	236519.D	08/08/2023	21:35
16WC1B	240-189273-6	236520.D	08/08/2023	22:00
16WC1A MS	240-189273-4 MS	236521.D	08/08/2023	22:25
16WC1A MSD	240-189273-4 MSD	236522.D	08/08/2023	22:50

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

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Sample No.: ICIS 240-582961/8 Date Analyzed: 08/04/2023 17:54

Instrument ID: A3UX23 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 236433.D Heated Purge: (Y/N) N

Calibration ID: 71409

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1078248	6.59	790347	9.74	372950	12.06
UPPER LIMIT		2156496	7.09	1580694	10.24	745900	12.56
LOWER LIMIT		539124	6.09	395174	9.24	186475	11.56
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-582961/13		769182	6.59	553520	9.74	265651	12.06
CCVIS 240-583235/3		988391	6.59	746943	9.73	387401	12.06

FB = Fluorobenzene
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

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

Column used to flag values outside QC limits

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

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Sample No.: CCVIS 240-583235/3 Date Analyzed: 08/08/2023 13:38

Instrument ID: A3UX23 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 236500.D Heated Purge: (Y/N) N

Calibration ID: 71409

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		988391	6.59	746943	9.73	387401	12.06
UPPER LIMIT		1976782	7.09	1493886	10.23	774802	12.56
LOWER LIMIT		494196	6.09	373472	9.23	193701	11.56
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 240-583235/4		1012757	6.59	752940	9.74	381341	12.06
MB 240-583235/7		934931	6.59	689248	9.74	338928	12.06
240-189273-1	16C1	883479	6.59	639366	9.74	319878	12.06
240-189273-2	16MW8	897972	6.59	645470	9.74	310523	12.06
240-189273-3	16MW9	913155	6.59	658138	9.74	320358	12.06
240-189273-4	16WC1A	859760	6.59	626372	9.74	308024	12.06
240-189273-5	16WDUP	935719	6.59	685353	9.74	332278	12.06
240-189273-6	16WC1B	858404	6.59	615041	9.74	303318	12.06
240-189273-4 MS	16WC1A MS	864461	6.59	644989	9.74	335656	12.06
240-189273-4 MSD	16WC1A MSD	920643	6.59	687292	9.74	350837	12.06

FB = Fluorobenzene
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

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

Column used to flag values outside QC limits

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 240-189273-1

SDG No.:

Client Sample ID: 16C1 | Lab Sample ID: 240-189273-1

Matrix: Water | Lab File ID: 236515.D

Analysis Method: 8260D | Date Collected: 07/27/2023 12:45

Sample wt/vol: 5(mL) | Date Analyzed: 08/08/2023 19:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

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

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

Analysis Batch No.: 583235 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
107-02-8	Acrolein	10	U	10	2.1
110-57-6	trans-1,4-Dichloro-2-butene	10	U	10	1.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	105		78-122
1868-53-7	Dibromofluoromethane (Surr)	104		73-120
460-00-4	4-Bromofluorobenzene (Surr)	98		56-136
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		62-137

Eurofins Cleveland
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX23\20230808-132221.b\236515.D
Lims ID: 240-189273-B-1
Client ID: 16C1
Sample Type: Client
Inject. Date: 08-Aug-2023 19:54:30 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0132221-018
Operator ID: Instrument ID: A3UX23

Method: \\chromfs\Canton\ChromData\A3UX23\20230808-132221.b\8260_23.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Aug-2023 09:41:40 Calib Date: 04-Aug-2023 19:09:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\236436.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1681

First Level Reviewer: PHN3 Date: 09-Aug-2023 09:43:31

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.591	6.591	0.000	98	883479	25.0	
* 2 Chlorobenzene-d5	117	9.738	9.726	0.012	90	639366	25.0	
* 3 1,4-Dichlorobenzene-d4	152	12.057	12.058	-0.001	98	319878	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.810	5.810	0.000	92	201999	26.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.188	6.188	0.000	96	310091	27.6	
$ 6 Toluene-d8 (Surr)	98	8.283	8.283	0.000	96	816070	26.2	
$ 7 4-Bromofluorobenzene (Surr)	95	10.910	10.910	0.000	83	305113	24.5	
18 Acrolein	56		2.603				ND	
94 trans-1,4-Dichloro-2-butene	53		11.111				ND	

QC Flag Legend
Processing Flags

Reagents:

vm40ml_vials_00024	Amount Added:	0.00	Units:	Run Reagent
vm125UX21_IS_00050	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00237	Amount Added:	0.00	Units:	Run Reagent
vm125UX21_SS_00008	Amount Added:	1.00	Units: uL	Run Reagent

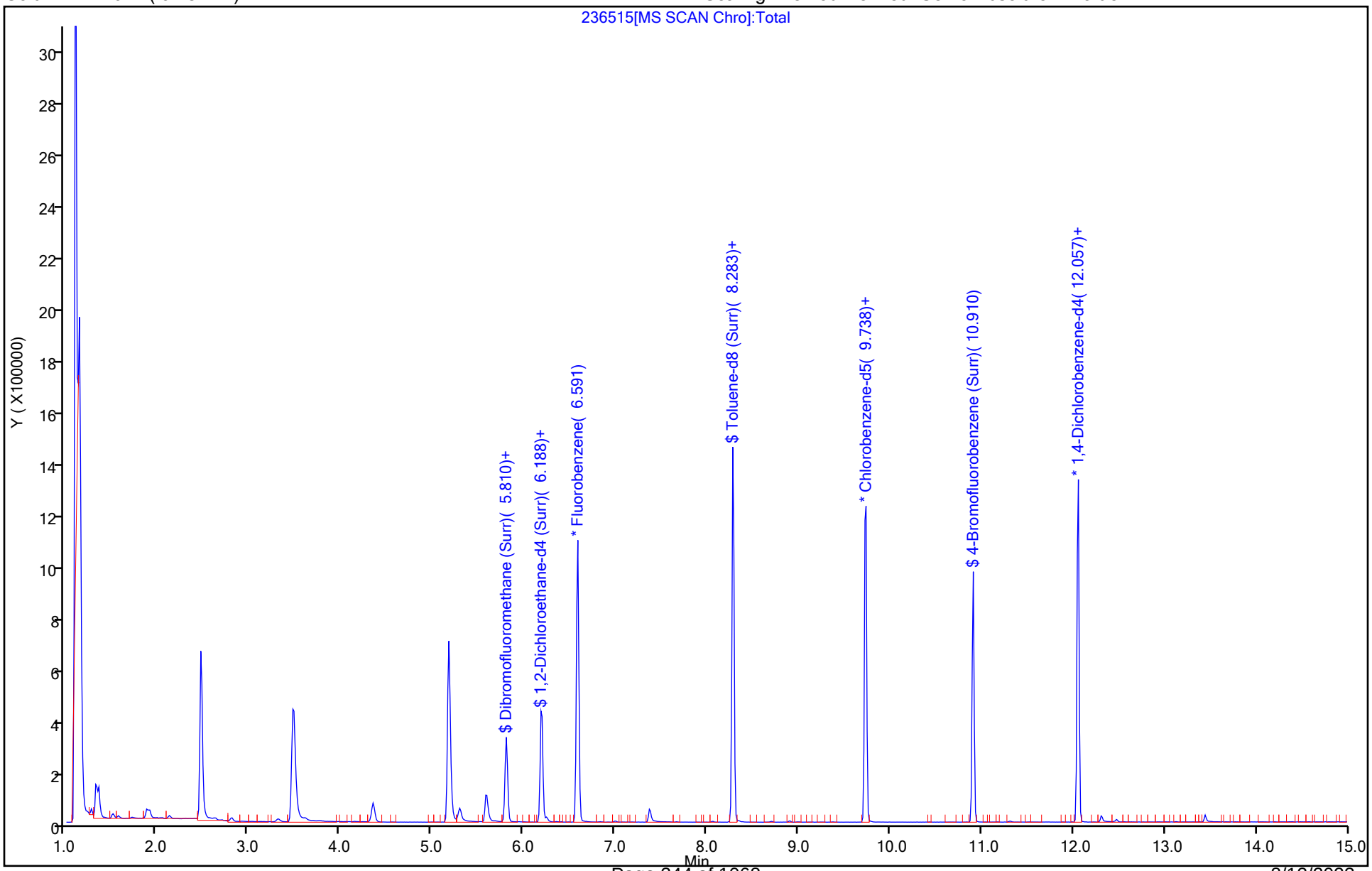
Report Date: 09-Aug-2023 09:50:43 Chrom Revision: 2.3 03-Aug-2023 16:11:04

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A3UX23\20230808-132221.b\236515.D

Injection Date:	08-Aug-2023 19:54:30	Instrument ID:	A3UX23	Operator ID:	
Lims ID:	240-189273-B-1	Lab Sample ID:	240-189273-1	Worklist Smp#:	18
Client ID:	16C1				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	8260_23	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Cleveland
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX23\20230808-132221.b\236515.D
Lims ID: 240-189273-B-1
Client ID: 16C1
Sample Type: Client
Inject. Date: 08-Aug-2023 19:54:30 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0132221-018
Operator ID: Instrument ID: A3UX23

Method: \\chromfs\Canton\ChromData\A3UX23\20230808-132221.b\8260_23.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Aug-2023 09:41:40 Calib Date: 04-Aug-2023 19:09:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\236436.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1681

First Level Reviewer: PHN3 Date: 09-Aug-2023 09:43:31

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	25.0	26.0	104.14
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	27.6	110.42
$ 6 Toluene-d8 (Surr)	25.0	26.2	104.79
$ 7 4-Bromofluorobenzene (Surr)	25.0	24.5	97.94

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 240-189273-1

SDG No.:

Client Sample ID: 16MW8 | Lab Sample ID: 240-189273-2

Matrix: Water | Lab File ID: 236516.D

Analysis Method: 8260D | Date Collected: 07/26/2023 10:05

Sample wt/vol: 5(mL) | Date Analyzed: 08/08/2023 20:19

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

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

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

Analysis Batch No.: 583235 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
107-02-8	Acrolein	10	U	10	2.1
110-57-6	trans-1,4-Dichloro-2-butene	10	U	10	1.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	106		78-122
1868-53-7	Dibromofluoromethane (Surr)	105		73-120
460-00-4	4-Bromofluorobenzene (Surr)	99		56-136
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		62-137

Eurofins Cleveland
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX23\20230808-132221.b\236516.D
Lims ID: 240-189273-B-2
Client ID: 16MW8
Sample Type: Client
Inject. Date: 08-Aug-2023 20:19:30 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0132221-019
Operator ID: Instrument ID: A3UX23

Method: \\chromfs\Canton\ChromData\A3UX23\20230808-132221.b\8260_23.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Aug-2023 09:41:40 Calib Date: 04-Aug-2023 19:09:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\236436.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1681

First Level Reviewer: PHN3 Date: 09-Aug-2023 09:43:46

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.591	6.591	0.000	98	897972	25.0	
* 2 Chlorobenzene-d5	117	9.738	9.726	0.012	90	645470	25.0	
* 3 1,4-Dichlorobenzene-d4	152	12.058	12.058	0.000	98	310523	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.810	5.810	0.000	92	206781	26.2	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.188	6.188	0.000	97	317612	27.8	
$ 6 Toluene-d8 (Surr)	98	8.283	8.283	0.000	96	832373	26.5	
$ 7 4-Bromofluorobenzene (Surr)	95	10.910	10.910	0.000	83	311908	24.8	
18 Acrolein	56		2.603				ND	
94 trans-1,4-Dichloro-2-butene	53		11.111				ND	

QC Flag Legend

Processing Flags

Reagents:

vm40ml_vials_00024	Amount Added:	0.00	Units:	Run Reagent
vm125UX21_IS_00050	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00237	Amount Added:	0.00	Units:	Run Reagent
vm125UX21_SS_00008	Amount Added:	1.00	Units: uL	Run Reagent

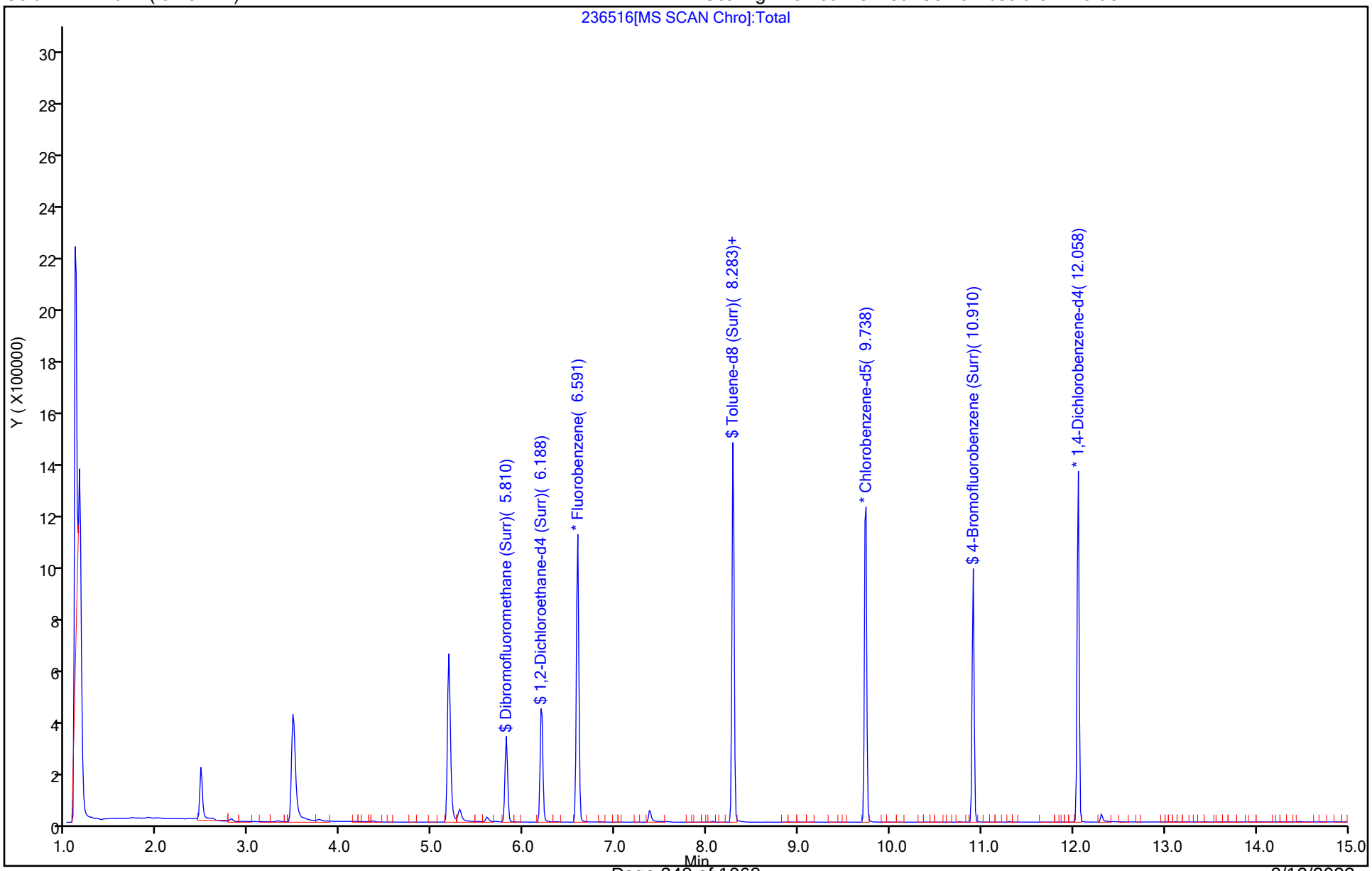
Report Date: 09-Aug-2023 09:50:44 Chrom Revision: 2.3 03-Aug-2023 16:11:04

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A3UX23\20230808-132221.b\236516.D

Injection Date:	08-Aug-2023 20:19:30	Instrument ID:	A3UX23	Operator ID:	
Lims ID:	240-189273-B-2	Lab Sample ID:	240-189273-2	Worklist Smp#:	19
Client ID:	16MW8				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	8260_23	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Cleveland
Recovery Report

Data File:	\\chromfs\Canton\ChromData\A3UX23\20230808-132221.b\236516.D				
Lims ID:	240-189273-B-2				
Client ID:	16MW8				
Sample Type:	Client				
Inject. Date:	08-Aug-2023 20:19:30	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	240-0132221-019				
Operator ID:		Instrument ID:	A3UX23		
Method:	\\chromfs\Canton\ChromData\A3UX23\20230808-132221.b\8260_23.m				
Limit Group:	MSV 8260C ICAL				
Last Update:	09-Aug-2023 09:41:40	Calib Date:	04-Aug-2023 19:09:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\236436.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1681				

First Level Reviewer: PHN3 Date: 09-Aug-2023 09:43:46

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	25.0	26.2	104.88
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	27.8	111.28
$ 6 Toluene-d8 (Surr)	25.0	26.5	105.88
$ 7 4-Bromofluorobenzene (Surr)	25.0	24.8	99.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 240-189273-1

SDG No.:

Client Sample ID: 16MW9 | Lab Sample ID: 240-189273-3

Matrix: Water | Lab File ID: 236517.D

Analysis Method: 8260D | Date Collected: 07/27/2023 11:25

Sample wt/vol: 5(mL) | Date Analyzed: 08/08/2023 20:44

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

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

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

Analysis Batch No.: 583235 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
107-02-8	Acrolein	10	U	10	2.1
110-57-6	trans-1,4-Dichloro-2-butene	10	U	10	1.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	106		78-122
1868-53-7	Dibromofluoromethane (Surr)	102		73-120
460-00-4	4-Bromofluorobenzene (Surr)	97		56-136
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		62-137

Eurofins Cleveland
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX23\20230808-132221.b\236517.D
Lims ID: 240-189273-B-3
Client ID: 16MW9
Sample Type: Client
Inject. Date: 08-Aug-2023 20:44:30 ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0132221-020
Operator ID: Instrument ID: A3UX23

Method: \\chromfs\Canton\ChromData\A3UX23\20230808-132221.b\8260_23.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Aug-2023 09:41:40 Calib Date: 04-Aug-2023 19:09:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\236436.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1681

First Level Reviewer: PHN3 Date: 09-Aug-2023 09:44:03

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.591	6.591	0.000	98	913155	25.0	
* 2 Chlorobenzene-d5	117	9.738	9.726	0.012	90	658138	25.0	
* 3 1,4-Dichlorobenzene-d4	152	12.057	12.058	-0.001	97	320358	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.810	5.810	0.000	92	205190	25.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.188	6.188	0.000	96	320423	27.6	
$ 6 Toluene-d8 (Surr)	98	8.283	8.283	0.000	96	850588	26.5	
$ 7 4-Bromofluorobenzene (Surr)	95	10.910	10.910	0.000	84	311117	24.3	
18 Acrolein	56		2.603				ND	
94 trans-1,4-Dichloro-2-butene	53		11.111				ND	

QC Flag Legend

Processing Flags

Reagents:

vm40ml_vials_00024	Amount Added:	0.00	Units:	Run Reagent
vm125UX21_IS_00050	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00237	Amount Added:	0.00	Units:	Run Reagent
vm125UX21_SS_00008	Amount Added:	1.00	Units: uL	Run Reagent

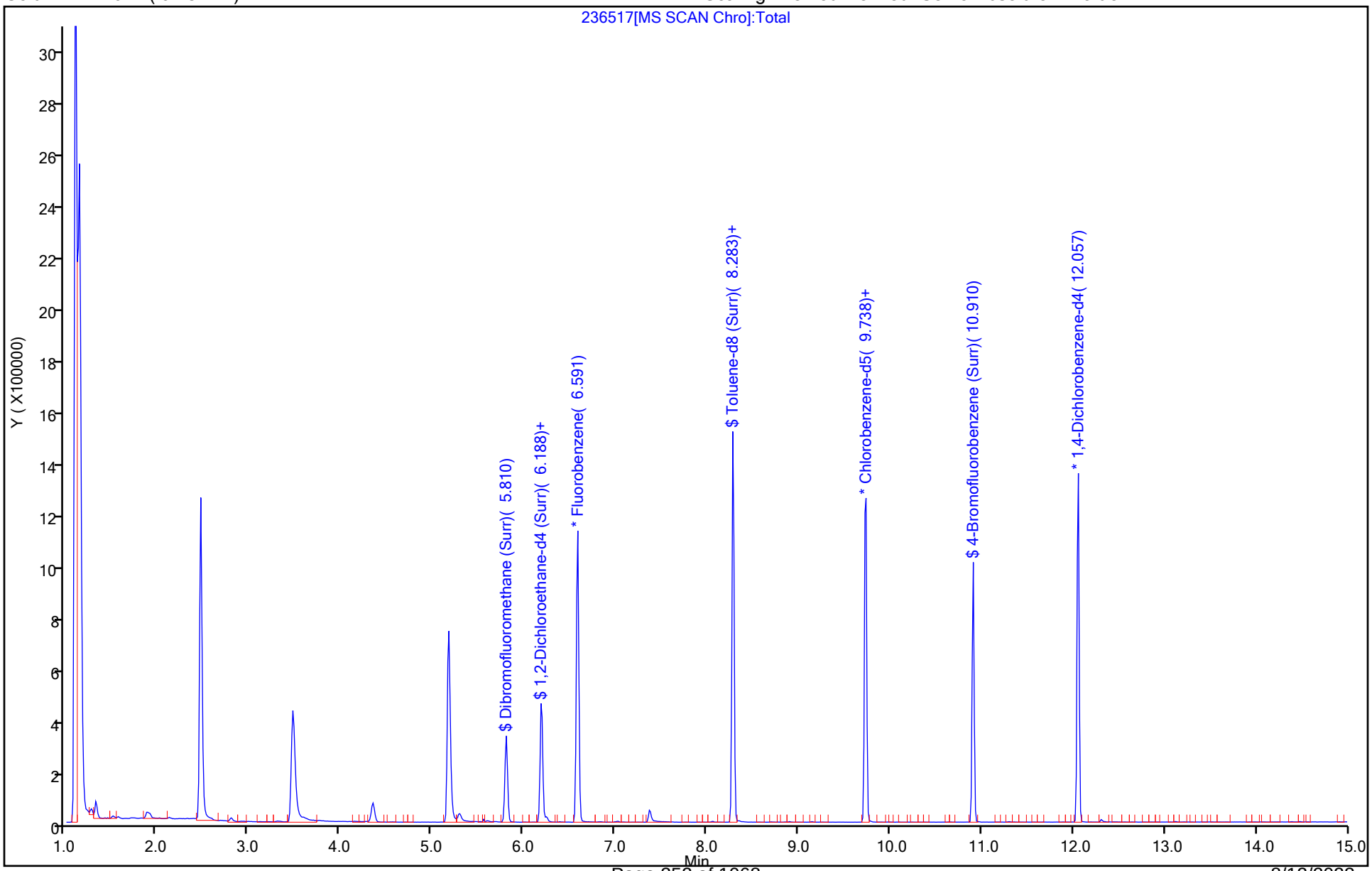
Report Date: 09-Aug-2023 09:50:44 Chrom Revision: 2.3 03-Aug-2023 16:11:04

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A3UX23\20230808-132221.b\236517.D

Injection Date:	08-Aug-2023 20:44:30	Instrument ID:	A3UX23	Operator ID:	
Lims ID:	240-189273-B-3	Lab Sample ID:	240-189273-3	Worklist Smp#:	20
Client ID:	16MW9				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	8260_23	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Cleveland
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX23\20230808-132221.b\236517.D
Lims ID: 240-189273-B-3
Client ID: 16MW9
Sample Type: Client
Inject. Date: 08-Aug-2023 20:44:30 ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0132221-020
Operator ID: Instrument ID: A3UX23

Method: \\chromfs\Canton\ChromData\A3UX23\20230808-132221.b\8260_23.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Aug-2023 09:41:40 Calib Date: 04-Aug-2023 19:09:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\236436.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1681

First Level Reviewer: PHN3 Date: 09-Aug-2023 09:44:03

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	25.0	25.6	102.35
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	27.6	110.39
$ 6 Toluene-d8 (Surr)	25.0	26.5	106.11
$ 7 4-Bromofluorobenzene (Surr)	25.0	24.3	97.02

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 240-189273-1

SDG No.:

Client Sample ID: 16WC1A | Lab Sample ID: 240-189273-4

Matrix: Water | Lab File ID: 236518.D

Analysis Method: 8260D | Date Collected: 07/27/2023 09:55

Sample wt/vol: 5(mL) | Date Analyzed: 08/08/2023 21:09

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

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

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

Analysis Batch No.: 583235 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
107-02-8	Acrolein	10	U	10	2.1
110-57-6	trans-1,4-Dichloro-2-butene	10	U	10	1.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	106		78-122
1868-53-7	Dibromofluoromethane (Surr)	105		73-120
460-00-4	4-Bromofluorobenzene (Surr)	97		56-136
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		62-137

Eurofins Cleveland
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX23\20230808-132221.b\236518.D
Lims ID: 240-189273-B-4
Client ID: 16WC1A
Sample Type: Client
Inject. Date: 08-Aug-2023 21:09:30 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0132221-021
Operator ID: Instrument ID: A3UX23

Method: \\chromfs\Canton\ChromData\A3UX23\20230808-132221.b\8260_23.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Aug-2023 09:41:40 Calib Date: 04-Aug-2023 19:09:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\236436.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1681

First Level Reviewer: PHN3 Date: 09-Aug-2023 09:44:16

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.591	6.591	0.000	98	859760	25.0	
* 2 Chlorobenzene-d5	117	9.738	9.726	0.012	90	626372	25.0	
* 3 1,4-Dichlorobenzene-d4	152	12.058	12.058	0.000	98	308024	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.810	5.810	0.000	92	197565	26.2	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.189	6.188	0.001	97	303380	27.8	
$ 6 Toluene-d8 (Surr)	98	8.283	8.283	0.000	96	806069	26.4	
$ 7 4-Bromofluorobenzene (Surr)	95	10.910	10.910	0.000	84	296215	24.3	
18 Acrolein	56		2.603				ND	
94 trans-1,4-Dichloro-2-butene	53		11.111				ND	

QC Flag Legend
Processing Flags

Reagents:

vm40ml_vials_00024	Amount Added:	0.00	Units:	Run Reagent
vm125UX21_IS_00050	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00237	Amount Added:	0.00	Units:	Run Reagent
vm125UX21_SS_00008	Amount Added:	1.00	Units: uL	Run Reagent

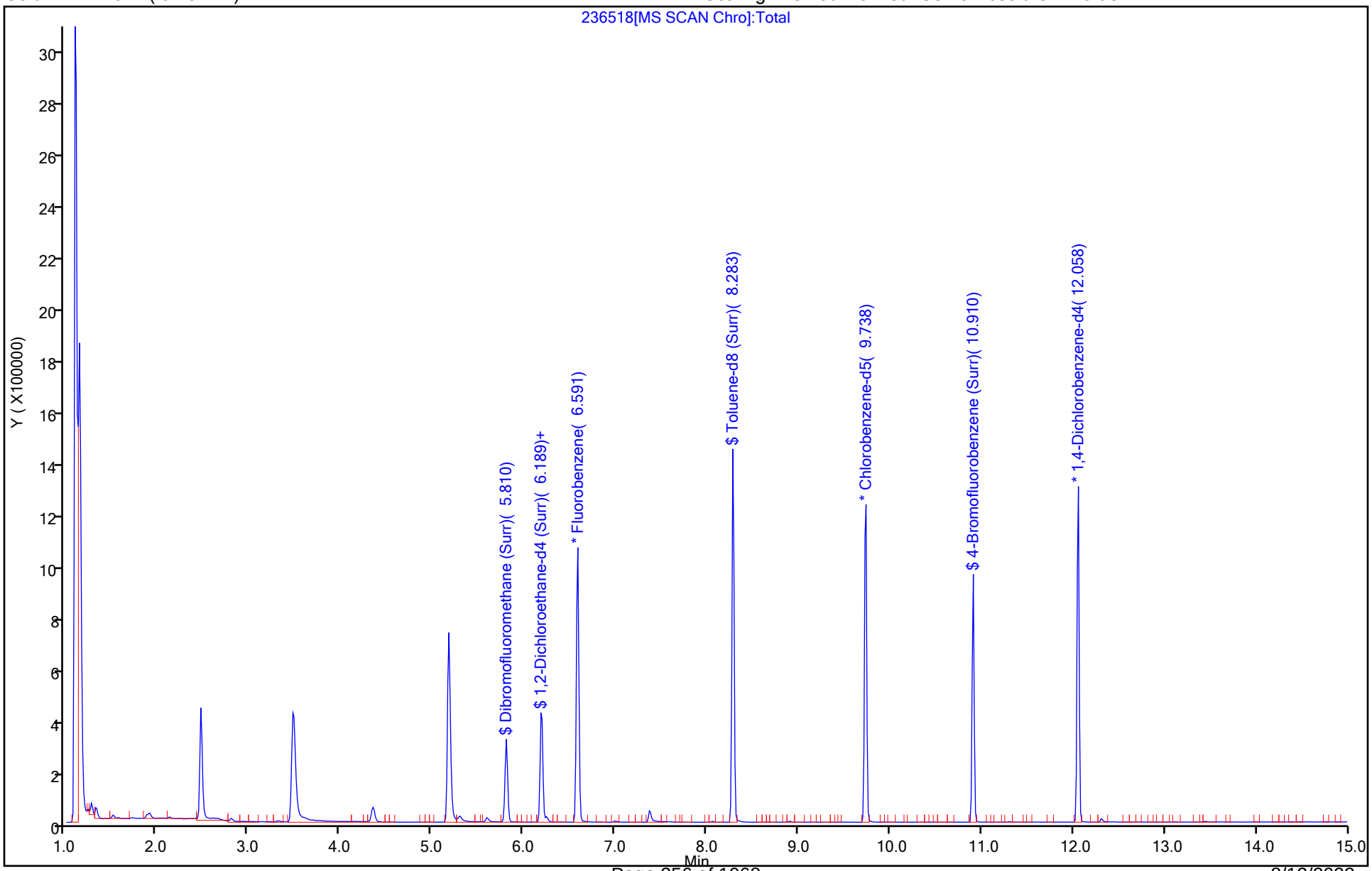
Report Date: 09-Aug-2023 09:50:45 Chrom Revision: 2.3 03-Aug-2023 16:11:04

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A3UX23\20230808-132221.b\236518.D

Injection Date:	08-Aug-2023 21:09:30	Instrument ID:	A3UX23	Operator ID:	
Lims ID:	240-189273-B-4	Lab Sample ID:	240-189273-4	Worklist Smp#:	21
Client ID:	16WC1A				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	8260_23	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Cleveland
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX23\20230808-132221.b\236518.D
Lims ID: 240-189273-B-4
Client ID: 16WC1A
Sample Type: Client
Inject. Date: 08-Aug-2023 21:09:30 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0132221-021
Operator ID: Instrument ID: A3UX23

Method: \\chromfs\Canton\ChromData\A3UX23\20230808-132221.b\8260_23.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Aug-2023 09:41:40 Calib Date: 04-Aug-2023 19:09:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\236436.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1681

First Level Reviewer: PHN3 Date: 09-Aug-2023 09:44:16

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	25.0	26.2	104.66
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	27.8	111.01
$ 6 Toluene-d8 (Surr)	25.0	26.4	105.66
$ 7 4-Bromofluorobenzene (Surr)	25.0	24.3	97.05

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 240-189273-1

SDG No.:

Client Sample ID: 16WDUP | Lab Sample ID: 240-189273-5

Matrix: Water | Lab File ID: 236519.D

Analysis Method: 8260D | Date Collected: 07/27/2023 10:20

Sample wt/vol: 5(mL) | Date Analyzed: 08/08/2023 21:35

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

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

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

Analysis Batch No.: 583235 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
107-02-8	Acrolein	10	U	10	2.1
110-57-6	trans-1,4-Dichloro-2-butene	10	U	10	1.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	105		78-122
1868-53-7	Dibromofluoromethane (Surr)	104		73-120
460-00-4	4-Bromofluorobenzene (Surr)	98		56-136
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		62-137

Eurofins Cleveland
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX23\20230808-132221.b\236519.D
Lims ID: 240-189273-B-5
Client ID: 16WDUP
Sample Type: Client
Inject. Date: 08-Aug-2023 21:35:30 ALS Bottle#: 21 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0132221-022
Operator ID: Instrument ID: A3UX23

Method: \\chromfs\Canton\ChromData\A3UX23\20230808-132221.b\8260_23.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Aug-2023 09:41:40 Calib Date: 04-Aug-2023 19:09:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\236436.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1681

First Level Reviewer: PHN3 Date: 09-Aug-2023 09:44:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.591	6.591	0.000	98	935719	25.0	
* 2 Chlorobenzene-d5	117	9.738	9.726	0.012	90	685353	25.0	
* 3 1,4-Dichlorobenzene-d4	152	12.058	12.058	0.000	97	332278	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.810	5.810	0.000	92	213318	26.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.188	6.188	0.000	97	327598	27.5	
$ 6 Toluene-d8 (Surr)	98	8.283	8.283	0.000	96	876131	26.2	
$ 7 4-Bromofluorobenzene (Surr)	95	10.910	10.910	0.000	83	327879	24.5	
18 Acrolein	56		2.603				ND	
94 trans-1,4-Dichloro-2-butene	53		11.111				ND	

QC Flag Legend
Processing Flags

Reagents:

vm40ml_vials_00024	Amount Added:	0.00	Units:	Run Reagent
vm125UX21_IS_00050	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00237	Amount Added:	0.00	Units:	Run Reagent
vm125UX21_SS_00008	Amount Added:	1.00	Units: uL	Run Reagent

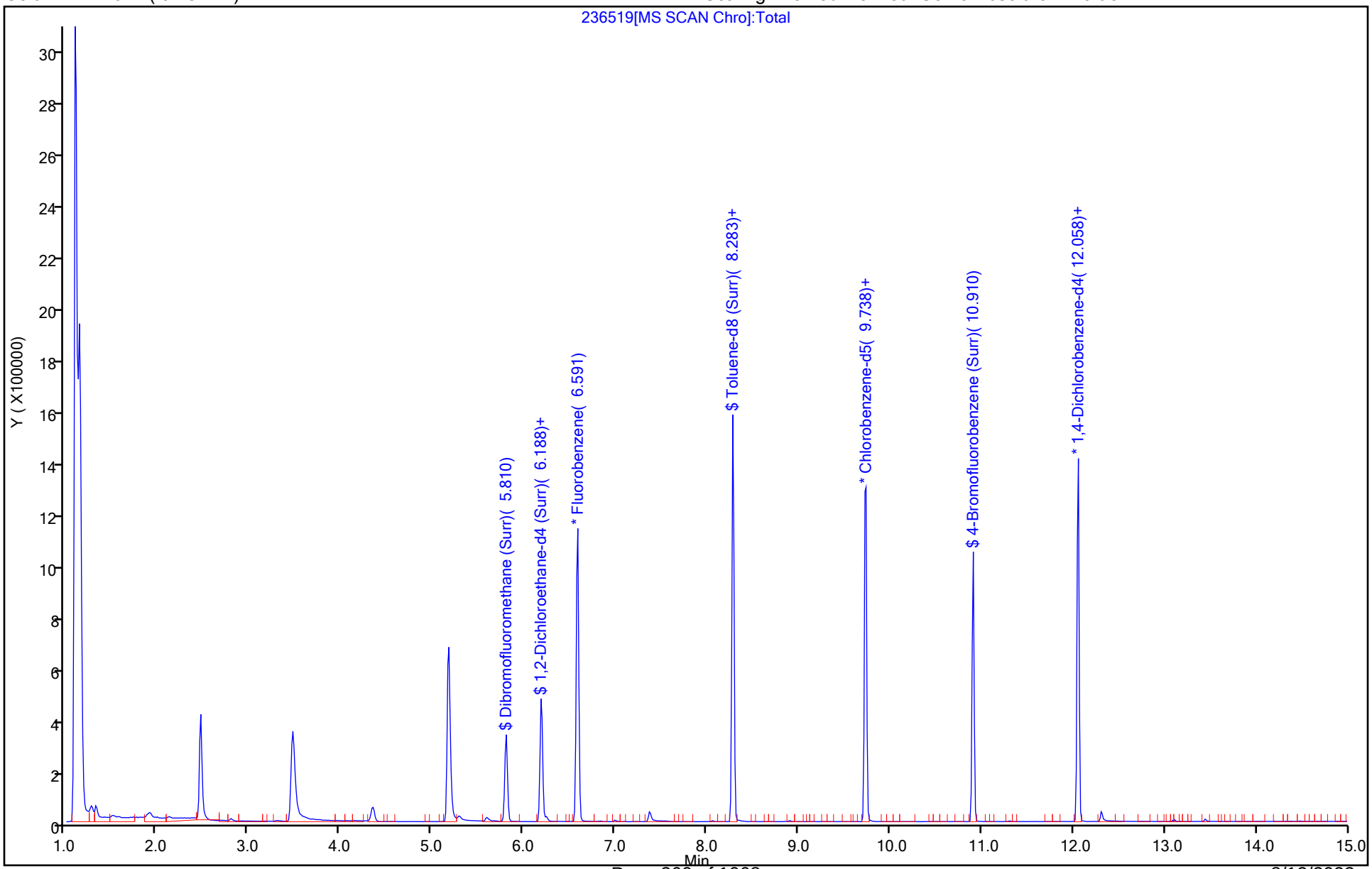
Report Date: 09-Aug-2023 09:50:46 Chrom Revision: 2.3 03-Aug-2023 16:11:04

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A3UX23\20230808-132221.b\236519.D

Injection Date:	08-Aug-2023 21:35:30	Instrument ID:	A3UX23	Operator ID:	
Lims ID:	240-189273-B-5	Lab Sample ID:	240-189273-5	Worklist Smp#:	22
Client ID:	16WDUP				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	8260_23	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Cleveland
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX23\20230808-132221.b\236519.D
Lims ID: 240-189273-B-5
Client ID: 16WDUP
Sample Type: Client
Inject. Date: 08-Aug-2023 21:35:30 ALS Bottle#: 21 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0132221-022
Operator ID: Instrument ID: A3UX23

Method: \\chromfs\Canton\ChromData\A3UX23\20230808-132221.b\8260_23.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Aug-2023 09:41:40 Calib Date: 04-Aug-2023 19:09:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\236436.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1681

First Level Reviewer: PHN3 Date: 09-Aug-2023 09:44:48

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	25.0	26.0	103.84
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	27.5	110.14
$ 6 Toluene-d8 (Surr)	25.0	26.2	104.96
$ 7 4-Bromofluorobenzene (Surr)	25.0	24.5	98.18

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 240-189273-1

SDG No.:

Client Sample ID: 16WC1B | Lab Sample ID: 240-189273-6

Matrix: Water | Lab File ID: 236520.D

Analysis Method: 8260D | Date Collected: 07/26/2023 12:05

Sample wt/vol: 5(mL) | Date Analyzed: 08/08/2023 22:00

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

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

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

Analysis Batch No.: 583235 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
107-02-8	Acrolein	10	U	10	2.1
110-57-6	trans-1,4-Dichloro-2-butene	10	U	10	1.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	105		78-122
1868-53-7	Dibromofluoromethane (Surr)	105		73-120
460-00-4	4-Bromofluorobenzene (Surr)	97		56-136
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		62-137

Eurofins Cleveland
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX23\20230808-132221.b\236520.D
Lims ID: 240-189273-B-6
Client ID: 16WC1B
Sample Type: Client
Inject. Date: 08-Aug-2023 22:00:30 ALS Bottle#: 22 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0132221-023
Operator ID: Instrument ID: A3UX23

Method: \\chromfs\Canton\ChromData\A3UX23\20230808-132221.b\8260_23.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Aug-2023 09:41:40 Calib Date: 04-Aug-2023 19:09:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\236436.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1681

First Level Reviewer: PHN3 Date: 09-Aug-2023 09:45:07

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.591	6.591	0.000	98	858404	25.0	
* 2 Chlorobenzene-d5	117	9.738	9.726	0.012	90	615041	25.0	
* 3 1,4-Dichlorobenzene-d4	152	12.058	12.058	0.000	97	303318	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.810	5.810	0.000	92	197340	26.2	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.188	6.188	0.000	97	303565	27.8	
$ 6 Toluene-d8 (Surr)	98	8.283	8.283	0.000	96	785216	26.2	
$ 7 4-Bromofluorobenzene (Surr)	95	10.910	10.910	0.000	83	289525	24.2	
18 Acrolein	56		2.603				ND	
94 trans-1,4-Dichloro-2-butene	53		11.111				ND	

QC Flag Legend
Processing Flags

Reagents:

vm40ml_vials_00024	Amount Added:	0.00	Units:	Run Reagent
vm125UX21_IS_00050	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00237	Amount Added:	0.00	Units:	Run Reagent
vm125UX21_SS_00008	Amount Added:	1.00	Units: uL	Run Reagent

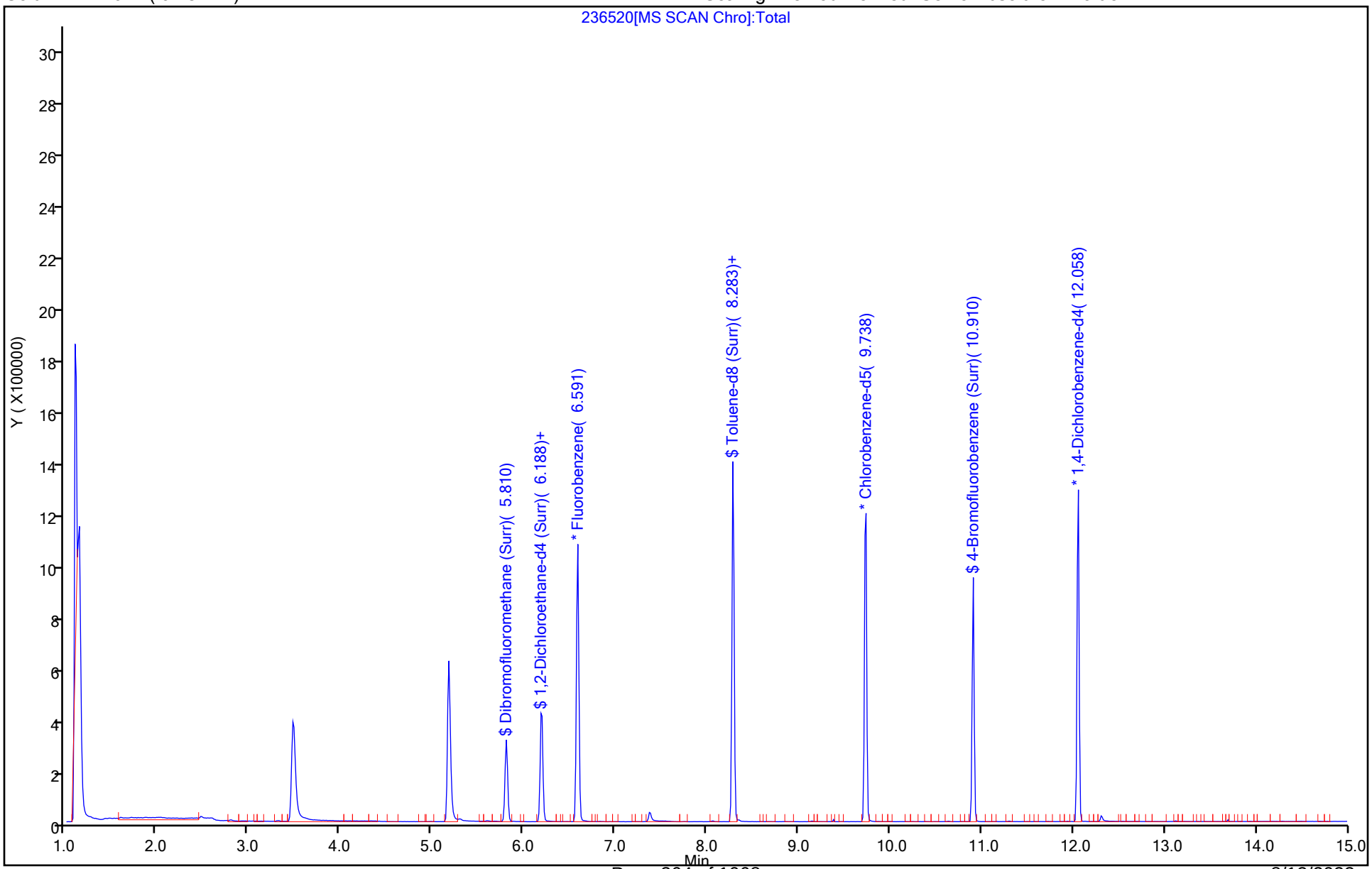
Report Date: 09-Aug-2023 09:50:47 Chrom Revision: 2.3 03-Aug-2023 16:11:04

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A3UX23\20230808-132221.b\236520.D

Injection Date:	08-Aug-2023 22:00:30	Instrument ID:	A3UX23	Operator ID:	
Lims ID:	240-189273-B-6	Lab Sample ID:	240-189273-6	Worklist Smp#:	23
Client ID:	16WC1B				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	8260_23	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



8/12/2023
10:47 AM

Eurofins Cleveland
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX23\20230808-132221.b\236520.D
Lims ID: 240-189273-B-6
Client ID: 16WC1B
Sample Type: Client
Inject. Date: 08-Aug-2023 22:00:30 ALS Bottle#: 22 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0132221-023
Operator ID: Instrument ID: A3UX23

Method: \\chromfs\Canton\ChromData\A3UX23\20230808-132221.b\8260_23.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Aug-2023 09:41:40 Calib Date: 04-Aug-2023 19:09:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\236436.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1681

First Level Reviewer: PHN3 Date: 09-Aug-2023 09:45:07

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	25.0	26.2	104.71
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	27.8	111.26
$ 6 Toluene-d8 (Surr)	25.0	26.2	104.82
$ 7 4-Bromofluorobenzene (Surr)	25.0	24.2	96.61

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

Lab Name: Eurofins Cleveland Job No.: 240-189273-1 Analy Batch No.: 582961

SDG No.:

Instrument ID: A3UX23 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/04/2023 15:49 Calibration End Date: 08/04/2023 19:09 Calibration ID: 71409

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 240-582961/3	236428.D
Level 2	IC 240-582961/4	236429.D
Level 3	IC 240-582961/5	236430.D
Level 4	IC 240-582961/6	236431.D
Level 5	IC 240-582961/7	236432.D
Level 6	ICIS 240-582961/8	236433.D
Level 7	IC 240-582961/9	236434.D
Level 8	IC 240-582961/10	236435.D
Level 9	IC 240-582961/11	236436.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.3674 0.3144	0.3269 0.3116	0.2813 0.3217	0.3508 0.3079	0.3485	Ave		0.3256			0.1000	8.1		20.0			
Chloromethane	0.5517 0.4605	0.4557 0.4837	0.4032 0.4700	0.4672 0.4616	0.4728	Ave		0.4696			0.1000	8.1		20.0			
Vinyl chloride	0.3700 0.3226	0.3223 0.3305	0.2644 0.3311	0.3298 0.3258	0.3402	Ave		0.3263			0.1000	8.4		20.0			
Butadiene	0.5364 0.4171	0.4550 0.4191	0.3665 0.4216	0.4408 0.4112	0.4525	Ave		0.4356				10.6		20.0			
Bromomethane	0.2019 0.1615	0.2314 0.1537	0.1504 +++++	0.1734 +++++	0.1795	Ave		0.1788			0.0500	16.2		20.0			
Chloroethane	0.2486 0.1894	0.2104 0.1957	0.1804 0.1851	0.2001 0.1818	0.2053	Ave		0.1997			0.0500	10.6		20.0			
Dichlorofluoromethane	0.3476 0.3671	0.4615 0.3783	0.3136 0.3679	0.3678 0.3631	0.3992	Ave		0.3740				10.7		20.0			
Trichlorofluoromethane	0.3277 0.3319	0.3071 0.3363	0.2635 0.3359	0.3435 0.3252	0.3576	Ave		0.3254			0.1000	8.3		20.0			
Ethyl ether	0.2887 0.2728	0.3110 0.2735	0.2562 0.2581	0.2532 0.2632	0.2781	Ave		0.2728				6.7		20.0			
Acrolein	+++++ 0.0180	+++++ 0.0160	0.0175 0.0172	0.0181 0.0159	0.0174	Ave		0.0172				5.1		20.0			
1,1-Dichloroethene	+++++ 0.2022	0.2734 0.2085	0.2234 0.1925	0.1938 0.2023	0.2206	Ave		0.2146			0.1000	12.2		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.1958 0.1694	0.2162 0.1674	0.1759 0.1633	0.1577 0.1647	0.1844	Ave		0.1772			0.0500	10.6		20.0			

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

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

Lab Name: Eurofins Cleveland Job No.: 240-189273-1 Analy Batch No.: 582961

SDG No.:

Instrument ID: A3UX23 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/04/2023 15:49 Calibration End Date: 08/04/2023 19:09 Calibration ID: 71409

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Acetone	+++++ 0.0380	0.0843 0.0397	0.0454 0.0378	0.0373 0.0365	0.0459	Lin1	0.0791	0.0370			0.0100	15.1		30.0	0.9950		0.9900
Iodomethane	0.3431 0.3424	0.3750 0.3446	0.3267 0.3277	0.3219 0.3356	0.3609	Ave		0.3420				5.0		20.0			
Carbon disulfide	0.7634 0.6439	0.7423 0.6463	0.6235 0.6226	0.5975 0.6457	0.6798	Ave		0.6628			0.1000	8.4		20.0			
3-Chloro-1-propene	0.7804 0.5983	0.7242 0.5931	0.5649 0.5791	0.5420 0.5982	0.6053	Ave		0.6206				12.6		20.0			
Methyl acetate	0.3884 0.3982	0.4644 0.4065	0.3680 0.3881	0.3508 0.3958	0.4081	Ave		0.3965			0.0500	7.9		20.0			
Methylene Chloride	0.5889 0.2609	0.4041 0.2573	0.3020 0.2445	0.2578 0.2515	0.2775	Lin1	0.1619	0.2487			0.1000	5.0		30.0	0.9990		0.9900
2-Methyl-2-propanol	+++++ 0.0377	0.0493 0.0314	0.0333 0.0307	0.0259 0.0355	0.0402	Ave		0.0355				20.0		20.0			
Acrylonitrile	0.1651 0.1729	0.1796 0.1749	0.1580 0.1695	0.1535 0.1687	0.1806	Ave		0.1692				5.4		20.0			
trans-1,2-Dichloroethene	0.3290 0.2497	0.3172 0.2522	0.2517 0.2386	0.2394 0.2477	0.2617	Ave		0.2652			0.1000	12.7		20.0			
Methyl tert-butyl ether	0.8593 0.7930	0.8740 0.8089	0.7370 0.7765	0.7269 0.7899	0.8069	Ave		0.7969			0.1000	6.1		20.0			
Hexane	0.4370 0.4006	0.5041 0.3880	0.4185 0.4007	0.3592 0.4000	0.4202	Ave		0.4143				9.7		20.0			
1,1-Dichloroethane	0.5554 0.5211	0.5823 0.5313	0.4835 0.5071	0.4859 0.5209	0.5368	Ave		0.5249			0.2000	6.0		20.0			
Vinyl acetate	0.6486 0.7171	0.7489 0.7196	0.6395 0.7373	0.6270 0.7433	0.7003	Ave		0.6979				6.8		20.0			
2,2-Dichloropropane	0.0830 0.0656	0.0795 0.0629	0.0603 0.0576	0.0615 0.0591	0.0726	Ave		0.0669				13.9		20.0			
cis-1,2-Dichloroethene	0.3532 0.2827	0.3541 0.2830	0.2744 0.2677	0.2670 0.2801	0.2864	Ave		0.2943			0.1000	11.7		20.0			
2-Butanone (MEK)	0.0567 0.0420	0.0577 0.0434	0.0422 0.0423	0.0404 0.0426	0.0447	Ave		0.0458			0.0100	14.4		20.0			
Chlorobromomethane	0.1561 0.1331	0.1562 0.1314	0.1260 0.1285	0.1251 0.1301	0.1330	Ave		0.1355				8.9		20.0			
Tetrahydrofuran	0.1866 0.1564	0.1778 0.1595	0.1440 0.1518	0.1341 0.1559	0.1554	Ave		0.1580				10.1		20.0			

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

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

Lab Name: Eurofins Cleveland Job No.: 240-189273-1 Analy Batch No.: 582961

SDG No.:

Instrument ID: A3UX23 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/04/2023 15:49 Calibration End Date: 08/04/2023 19:09 Calibration ID: 71409

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Chloroform	0.5367 0.4645	0.5244 0.4667	0.4464 0.4442	0.4327 0.4585	0.4818	Ave		0.4729			0.2000	7.6		20.0			
1,1,1-Trichloroethane	0.4217 0.4083	0.4430 0.4068	0.3835 0.3909	0.3778 0.4020	0.4169	Ave		0.4056			0.1000	5.0		20.0			
Cyclohexane	0.5361 0.5307	0.5944 0.5182	0.5265 0.5194	0.4752 0.5270	0.5588	Ave		0.5318			0.1000	6.0		20.0			
Carbon tetrachloride	0.3671 0.3487	0.4009 0.3507	0.3443 0.3391	0.3193 0.3480	0.3602	Ave		0.3532			0.1000	6.3		20.0			
1,1-Dichloropropene	0.3663 0.3575	0.3971 0.3554	0.3447 0.3434	0.3317 0.3574	0.3613	Ave		0.3572				5.1		20.0			
Benzene	1.1076 1.0482	1.1934 1.0593	1.0435 1.0225	0.9866 1.0446	1.0823	Ave		1.0653			0.5000	5.5		20.0			
1,2-Dichloroethane	0.4719 0.4475	0.5149 0.4492	0.4377 0.4314	0.4201 0.4385	0.4587	Ave		0.4522			0.1000	6.2		20.0			
Isobutyl alcohol	0.0148 0.0168	0.0194 0.0162	0.0149 0.0163	0.0142 0.0154	0.0178	Ave		0.0162				10.1		20.0			
n-Heptane	0.0613 0.0531	0.0631 0.0516	0.0524 0.0525	0.0470 0.0529	0.0526	Ave		0.0541				9.2		20.0			
Trichloroethene	0.2832 0.2645	0.3091 0.2662	0.2659 0.2541	0.2510 0.2615	0.2674	Ave		0.2692			0.1500	6.5		20.0			
Methylcyclohexane	0.4346 0.4035	0.4668 0.3923	0.4012 0.3990	0.3663 0.3980	0.4252	Ave		0.4097			0.1000	7.0		20.0			
1,2-Dichloropropane	0.2788 0.2879	0.3210 0.2892	0.2747 0.2838	0.2668 0.2907	0.2863	Ave		0.2866			0.1000	5.3		20.0			
Dibromomethane	0.1616 0.1612	0.1765 0.1604	0.1550 0.1577	0.1499 0.1603	0.1585	Ave		0.1601				4.5		20.0			
1,4-Dioxane	0.0026 0.0026	0.0030 0.0024	0.0025 0.0025	0.0022 0.0025	0.0027	Ave		0.0026				8.3		20.0			
Dichlorobromomethane	0.3628 0.3383	0.3729 0.3451	0.3173 0.3379	0.3081 0.3462	0.3362	Ave		0.3405			0.1500	5.9		20.0			
2-Chloroethyl vinyl ether	0.1889 0.2091	0.2112 0.2159	0.1913 0.2159	0.1881 0.2150	0.2041	Ave		0.2044				5.8		20.0			
cis-1,3-Dichloropropene	0.3751 0.4171	0.4192 0.4223	0.3742 0.4199	0.3774 0.4217	0.4085	Ave		0.4039			0.1500	5.4		20.0			
4-Methyl-2-pentanone (MIBK)	0.3944 0.4923	0.4421 0.5044	0.3887 0.4898	0.4008 0.4896	0.4829	Ave		0.4539			0.0500	10.5		20.0			

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

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

Lab Name: Eurofins Cleveland Job No.: 240-189273-1 Analy Batch No.: 582961

SDG No.:

Instrument ID: A3UX23 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/04/2023 15:49 Calibration End Date: 08/04/2023 19:09 Calibration ID: 71409

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Toluene	1.6756 1.5192	1.7738 1.5104	1.4957 1.4392	1.4443 1.4987	1.5213	Ave		1.5420			0.4000	7.2		20.0			
trans-1,3-Dichloropropene	0.4804 0.5325	0.5390 0.5470	0.4757 0.5272	0.4706 0.5470	0.5079	Ave		0.5141			0.1000	6.1		20.0			
Ethyl methacrylate	0.4111 0.4822	0.4722 0.5117	0.3887 0.5115	0.4043 0.5200	0.4375	Ave		0.4599				11.0		20.0			
1,1,2-Trichloroethane	0.3182 0.3141	0.3482 0.3202	0.3034 0.3079	0.2936 0.3158	0.3194	Ave		0.3156			0.1000	4.8		20.0			
Tetrachloroethene	0.2674 0.2593	0.3013 0.2578	0.2592 0.2464	0.2471 0.2580	0.2659	Ave		0.2625			0.1500	6.2		20.0			
1,3-Dichloropropane	0.5595 0.5553	0.6252 0.5571	0.5434 0.5456	0.5261 0.5608	0.5599	Ave		0.5592				4.9		20.0			
2-Hexanone	0.3895 0.4490	0.4143 0.4636	0.3945 0.4511	0.3900 0.4468	0.4288	Ave		0.4253			0.0500	6.8		20.0			
Chlorodibromomethane	0.3164 0.3320	0.3482 0.3427	0.3013 0.3321	0.2903 0.3434	0.3217	Ave		0.3253				6.1		20.0			
Ethylene Dibromide	0.3268 0.3261	0.3647 0.3290	0.2981 0.3173	0.2987 0.3287	0.3238	Ave		0.3237				6.1		20.0			
Chlorobenzene	0.9965 0.9283	1.0816 0.9349	0.9308 0.8938	0.8822 0.9332	0.9490	Ave		0.9478			0.3000	6.3		20.0			
1,1,1,2-Tetrachloroethane	0.3362 0.3321	0.3497 0.3329	0.3096 0.3192	0.2996 0.3309	0.3389	Ave		0.3277				4.7		20.0			
Ethylbenzene	0.5547 0.5228	0.5890 0.5295	0.5035 0.5029	0.4997 0.5184	0.5354	Ave		0.5284				5.5		20.0			
m-Xylene & p-Xylene	0.6253 0.6327	0.6925 0.6344	0.6139 0.6083	0.6030 0.6365	0.6450	Ave		0.6324				4.2		20.0			
o-Xylene	0.6587 0.6303	0.6914 0.6289	0.6297 0.5990	0.5956 0.6322	0.6574	Ave		0.6359				4.7		20.0			
Styrene	0.8988 0.9863	0.9763 0.9999	0.8840 0.9813	0.8723 1.0217	0.9591	Ave		0.9533			0.3000	5.7		20.0			
Bromoform	0.1784 0.2059	0.1846 0.2170	0.1741 0.2142	0.1753 0.2194	0.1998	Ave		0.1965			0.1000	9.5		20.0			
Isopropylbenzene	1.5858 1.5737	1.7734 1.5733	1.5235 1.4891	1.4752 1.5573	1.6391	Ave		1.5767			0.1000	5.7		20.0			
Bromobenzene	0.7805 0.7767	0.8432 0.7944	0.7597 0.7497	0.7149 0.7901	0.7593	Ave		0.7743				4.6		20.0			

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

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

Lab Name: Eurofins Cleveland Job No.: 240-189273-1 Analy Batch No.: 582961

SDG No.:

Instrument ID: A3UX23 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/04/2023 15:49 Calibration End Date: 08/04/2023 19:09 Calibration ID: 71409

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
1,1,2,2-Tetrachloroethane	0.9756 0.9442	0.9791 0.9608	0.8695 0.9221	0.8609 0.9343	0.9496	Ave		0.9329			0.3000	4.6		20.0			
1,2,3-Trichloropropane	0.3370 0.3093	0.3505 0.3171	0.2840 0.3008	0.2891 0.3032	0.3032	Ave		0.3105				6.9		20.0			
trans-1,4-Dichloro-2-butene	0.3175 0.3849	0.4082 0.4003	0.3517 0.4008	0.3324 0.4047	0.3511	Ave		0.3724				9.3		20.0			
N-Propylbenzene	0.8490 0.8984	0.9973 0.9128	0.8787 0.8721	0.8202 0.9161	0.8989	Ave		0.8937				5.6		20.0			
2-Chlorotoluene	0.7101 0.7691	0.7972 0.7881	0.7524 0.7390	0.7329 0.7855	0.7772	Ave		0.7613				3.9		20.0			
1,3,5-Trimethylbenzene	2.5985 2.7618	2.8348 2.7550	2.5771 2.5802	2.4966 2.7554	2.7747	Ave		2.6816				4.4		20.0			
4-Chlorotoluene	0.7290 0.7834	0.8618 0.8032	0.7510 0.7610	0.7193 0.7918	0.7870	Ave		0.7764				5.5		20.0			
tert-Butylbenzene	2.1278 2.2998	2.4939 2.3279	2.1482 2.2068	2.1199 2.3368	2.3127	Ave		2.2638				5.5		20.0			
1,2,4-Trimethylbenzene	2.5968 2.8586	3.0962 2.8566	2.6384 2.7151	2.6278 2.8605	2.8592	Ave		2.7899				5.7		20.0			
sec-Butylbenzene	2.8922 3.2201	3.5262 3.2233	2.9850 3.0610	2.9300 3.2223	3.2445	Ave		3.1450				6.3		20.0			
1,3-Dichlorobenzene	1.4115 1.4181	1.5977 1.4376	1.3768 1.3831	1.3574 1.4426	1.4157	Ave		1.4267			0.6000	4.9		20.0			
4-Isopropyltoluene	2.5125 2.7303	2.9313 2.7321	2.5336 2.5860	2.4794 2.7697	2.7725	Ave		2.6719				5.7		20.0			
1,4-Dichlorobenzene	1.4516 1.4535	1.6609 1.4666	1.4100 1.4069	1.3593 1.4611	1.4333	Ave		1.4559			0.5000	5.8		20.0			
1,2-Dichlorobenzene	1.3749 1.3938	1.5447 1.3963	1.3633 1.3248	1.3210 1.3726	1.4203	Ave		1.3902			0.4000	4.8		20.0			
n-Butylbenzene	2.2269 2.3576	2.5545 2.3435	2.1736 2.2450	2.1609 2.3571	2.3850	Ave		2.3116				5.4		20.0			
1,2-Dibromo-3-Chloropropane	0.1910 0.1983	0.2174 0.2057	0.1824 0.2003	0.1681 0.2035	0.1960	Ave		0.1959			0.0500	7.3		20.0			
1,2,4-Trichlorobenzene	0.8412 0.8226	0.9473 0.8052	0.7913 0.7838	0.7651 0.8062	0.8505	Ave		0.8237			0.2000	6.5		20.0			
Hexachlorobutadiene	0.2461 0.2751	0.3248 0.2716	0.2612 0.2666	0.2604 0.2783	0.2828	Ave		0.2741				8.0		20.0			

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

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

Lab Name: Eurofins Cleveland Job No.: 240-189273-1 Analy Batch No.: 582961

SDG No.:

Instrument ID: A3UX23 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/04/2023 15:49 Calibration End Date: 08/04/2023 19:09 Calibration ID: 71409

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Naphthalene	2.8180 2.9599	3.2197 2.9324	2.7751 2.8411	2.6888 2.8551	3.0738	Ave		2.9071				5.6		20.0			
1,2,3-Trichlorobenzene	0.7561 0.7594	0.8819 0.7396	0.7340 0.7377	0.7211 0.7451	0.8111	Ave		0.7651				6.6		20.0			
Dibromofluoromethane (Surr)	0.2176 0.2207	0.2178 0.2211	0.2170 0.2219	0.2160 0.2184	0.2255	Ave		0.2196				1.4		20.0			
1,2-Dichloroethane-d4 (Surr)	0.3186 0.3195	0.3163 0.3222	0.3123 0.3204	0.3130 0.3187	0.3197	Ave		0.3179				1.1		20.0			
Toluene-d8 (Surr)	1.2363 1.2038	1.2403 1.2299	1.2119 1.2181	1.1936 1.2146	1.2134	Ave		1.2180				1.2		20.0			
4-Bromofluorobenzene (Surr)	0.4808 0.4827	0.4846 0.4937	0.4803 0.4981	0.4800 0.4910	0.4941	Ave		0.4873				1.4		20.0			

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

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

Lab Name: Eurofins Cleveland Job No.: 240-189273-1 Analy Batch No.: 582961

SDG No.:

Instrument ID: A3UX23 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/04/2023 15:49 Calibration End Date: 08/04/2023 19:09 Calibration ID: 71409

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 240-582961/3	236428.D
Level 2	IC 240-582961/4	236429.D
Level 3	IC 240-582961/5	236430.D
Level 4	IC 240-582961/6	236431.D
Level 5	IC 240-582961/7	236432.D
Level 6	ICIS 240-582961/8	236433.D
Level 7	IC 240-582961/9	236434.D
Level 8	IC 240-582961/10	236435.D
Level 9	IC 240-582961/11	236436.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Dichlorodifluoromethane	FB	Ave	8032	14530	32226	98187	160117	0.500	1.00	2.50	6.25	12.5
			338962	516481	722190	884418		25.0	37.5	50.0	62.5	
Chloromethane	FB	Ave	12061	20254	46184	130769	217238	0.500	1.00	2.50	6.25	12.5
			496540	801722	1055049	1326126		25.0	37.5	50.0	62.5	
Vinyl chloride	FB	Ave	8088	14326	30293	92300	156335	0.500	1.00	2.50	6.25	12.5
			347854	547823	743250	935879		25.0	37.5	50.0	62.5	
Butadiene	FB	Ave	11725	20225	41983	123394	207926	0.500	1.00	2.50	6.25	12.5
			449687	694582	946572	1181133		25.0	37.5	50.0	62.5	
Bromomethane	FB	Ave	4414	10284	17232	48537	82457	0.500	1.00	2.50	6.25	12.5
			174102	254750	+++++	+++++		25.0	37.5	+++++	+++++	
Chloroethane	FB	Ave	5434	9351	20666	56010	94348	0.500	1.00	2.50	6.25	12.5
			204227	324352	415641	522354		25.0	37.5	50.0	62.5	
Dichlorofluoromethane	FB	Ave	7599	20513	35922	102942	183407	0.500	1.00	2.50	6.25	12.5
			395832	626975	825981	1042988		25.0	37.5	50.0	62.5	
Trichlorofluoromethane	FB	Ave	7163	13650	30181	96155	164316	0.500	1.00	2.50	6.25	12.5
			357914	557301	754101	934196		25.0	37.5	50.0	62.5	
Ethyl ether	FB	Ave	6312	13824	29347	70884	127784	0.500	1.00	2.50	6.25	12.5
			294132	453242	579418	755958		25.0	37.5	50.0	62.5	
Acrolein	FB	Ave	+++++	+++++	10002	25294	40067	+++++	+++++	12.5	31.3	62.5
			97005	132468	192999	228636		125	188	250	313	
1,1-Dichloroethene	FB	Ave	+++++	12150	25595	54258	101369	+++++	1.00	2.50	6.25	12.5
			217973	345558	432093	581209		25.0	37.5	50.0	62.5	
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	4280	9610	20148	44134	84736	0.500	1.00	2.50	6.25	12.5
			182673	277425	366561	473260		25.0	37.5	50.0	62.5	

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

Lab Name: Eurofins Cleveland Job No.: 240-189273-1 Analy Batch No.: 582961

SDG No.:

Instrument ID: A3UX23 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/04/2023 15:49 Calibration End Date: 08/04/2023 19:09 Calibration ID: 71409

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Acetone	FB	Lin1	+++++ 82042	7491 131519	10400 169552	20905 209798	42146	+++++ 50.0	2.00 75.0	5.00 100	12.5 125	25.0
Iodomethane	FB	Ave	7500 369227	16668 571076	37421 735745	90107 963996	165806	0.500 25.0	1.00 37.5	2.50 50.0	6.25 62.5	12.5
Carbon disulfide	FB	Ave	16689 694283	32994 1071052	71422 1397824	167239 1854849	312377	0.500 25.0	1.00 37.5	2.50 50.0	6.25 62.5	12.5
3-Chloro-1-propene	FB	Ave	17061 645081	32189 982986	64718 1300087	151718 1718495	278147	0.500 25.0	1.00 37.5	2.50 50.0	6.25 62.5	12.5
Methyl acetate	FB	Ave	16980 858746	41279 1347419	84318 1742670	196399 2273864	375035	1.00 50.0	2.00 75.0	5.00 100	12.5 125	25.0
Methylene Chloride	FB	Lin1	12874 281315	17962 426349	34599 548885	72158 722326	127488	0.500 25.0	1.00 37.5	2.50 50.0	6.25 62.5	12.5
2-Methyl-2-propanol	FB	Ave	+++++ 406437	21918 521195	38151 688137	72623 1020779	184844	+++++ 250	10.0 375	25.0 500	62.5 625	125
Acrylonitrile	FB	Ave	36088 1864266	79825 2898351	180951 3806189	429650 4847006	829683	5.00 250	10.0 375	25.0 500	62.5 625	125
trans-1,2-Dichloroethene	FB	Ave	7192 269264	14097 418021	28834 535727	67016 711557	120242	0.500 25.0	1.00 37.5	2.50 50.0	6.25 62.5	12.5
Methyl tert-butyl ether	FB	Ave	18785 855102	38849 1340533	84431 1743215	203456 2269080	370751	0.500 25.0	1.00 37.5	2.50 50.0	6.25 62.5	12.5
Hexane	FB	Ave	9554 431938	22407 643001	47941 899534	100538 1149074	193080	0.500 25.0	1.00 37.5	2.50 50.0	6.25 62.5	12.5
1,1-Dichloroethane	FB	Ave	12141 561866	25882 880461	55387 1138339	136000 1496440	246674	0.500 25.0	1.00 37.5	2.50 50.0	6.25 62.5	12.5
Vinyl acetate	FB	Ave	14179 773199	33285 1192644	73254 1655172	175503 2135250	321759	0.500 25.0	1.00 37.5	2.50 50.0	6.25 62.5	12.5
2,2-Dichloropropane	FB	Ave	1815 70720	3532 104181	6904 129241	17225 169888	33360	0.500 25.0	1.00 37.5	2.50 50.0	6.25 62.5	12.5
cis-1,2-Dichloroethene	FB	Ave	7722 304851	15740 469069	31435 601036	74746 804620	131579	0.500 25.0	1.00 37.5	2.50 50.0	6.25 62.5	12.5
2-Butanone (MEK)	FB	Ave	2479 90540	5128 143840	9665 189831	22627 244742	41058	1.00 50.0	2.00 75.0	5.00 100	12.5 125	25.0
Chlorobromomethane	FB	Ave	3413 143538	6941 217786	14432 288449	35012 373591	61127	0.500 25.0	1.00 37.5	2.50 50.0	6.25 62.5	12.5
Tetrahydrofuran	FB	Ave	8160 337231	15808 528536	33002 681599	75093 895740	142802	1.00 50.0	2.00 75.0	5.00 100	12.5 125	25.0

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

Lab Name: Eurofins Cleveland Job No.: 240-189273-1 Analy Batch No.: 582961

SDG No.:

Instrument ID: A3UX23 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/04/2023 15:49 Calibration End Date: 08/04/2023 19:09 Calibration ID: 71409

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Chloroform	FB	Ave	11733 500899	23309 773529	51133 997128	121116 1317085	221382	0.500 25.0	1.00 37.5	2.50 50.0	6.25 62.5	12.5
1,1,1-Trichloroethane	FB	Ave	9219 440201	19690 674122	43938 877485	105738 1154732	191581	0.500 25.0	1.00 37.5	2.50 50.0	6.25 62.5	12.5
Cyclohexane	FB	Ave	11719 572273	26421 858869	60309 1165999	133015 1513744	256778	0.500 25.0	1.00 37.5	2.50 50.0	6.25 62.5	12.5
Carbon tetrachloride	FB	Ave	8026 375996	17820 581298	39437 761344	89373 999536	165517	0.500 25.0	1.00 37.5	2.50 50.0	6.25 62.5	12.5
1,1-Dichloropropene	FB	Ave	8008 385433	17650 589001	39490 771025	92857 1026647	166026	0.500 25.0	1.00 37.5	2.50 50.0	6.25 62.5	12.5
Benzene	FB	Ave	24213 1130248	53043 1755534	119536 2295571	276170 3000618	497303	0.500 25.0	1.00 37.5	2.50 50.0	6.25 62.5	12.5
1,2-Dichloroethane	FB	Ave	10316 482558	22885 744394	50144 968498	117576 1259606	210748	0.500 25.0	1.00 37.5	2.50 50.0	6.25 62.5	12.5
Isobutyl alcohol	FB	Ave	8100 451528	21595 672579	42633 915103	99352 1103399	204247	12.5 625	25.0 938	62.5 1250	156 1563	313
n-Heptane	FB	Ave	1339 57231	2806 85473	6004 117974	13164 152092	24183	0.500 25.0	1.00 37.5	2.50 50.0	6.25 62.5	12.5
Trichloroethene	FB	Ave	6191 285217	13739 441154	30460 570445	70255 751326	122888	0.500 25.0	1.00 37.5	2.50 50.0	6.25 62.5	12.5
Methylcyclohexane	FB	Ave	9501 435068	20748 650172	45965 895766	102518 1143333	195371	0.500 25.0	1.00 37.5	2.50 50.0	6.25 62.5	12.5
1,2-Dichloropropane	FB	Ave	6095 310443	14268 479366	31474 637104	74668 834961	131566	0.500 25.0	1.00 37.5	2.50 50.0	6.25 62.5	12.5
Dibromomethane	FB	Ave	3532 173763	7846 265815	17762 354054	41958 460463	72836	0.500 25.0	1.00 37.5	2.50 50.0	6.25 62.5	12.5
1,4-Dioxane	FB	Ave	1125 55611	2658 78869	5679 113025	12464 144973	24783	10.0 500	20.0 750	50.0 1000	125 1250	250
Dichlorobromomethane	FB	Ave	7932 364812	16576 571908	36351 758688	86248 994466	154463	0.500 25.0	1.00 37.5	2.50 50.0	6.25 62.5	12.5
2-Chloroethyl vinyl ether	FB	Ave	8257 450957	18771 715729	43820 969189	105323 1235071	187590	1.00 50.0	2.00 75.0	5.00 100	12.5 125	25.0
cis-1,3-Dichloropropene	FB	Ave	8201 449699	18633 699900	42871 942627	105646 1211460	187719	0.500 25.0	1.00 37.5	2.50 50.0	6.25 62.5	12.5
4-Methyl-2-pentanone (MIBK)	FB	Ave	17243 1061578	39301 1671979	89060 2199063	224391 2812771	443746	1.00 50.0	2.00 75.0	5.00 100	12.5 125	25.0

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

Lab Name: Eurofins Cleveland Job No.: 240-189273-1 Analy Batch No.: 582961

SDG No.:

Instrument ID: A3UX23 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/04/2023 15:49 Calibration End Date: 08/04/2023 19:09 Calibration ID: 71409

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Toluene	CBNZ d5	Ave	26100	55946	124461	295709	511904	0.500	1.00	2.50	6.25	12.5
			1200707	1833540	2415527	3154797		25.0	37.5	50.0	62.5	
trans-1,3-Dichloropropene	CBNZ d5	Ave	7483	17000	39587	96349	170894	0.500	1.00	2.50	6.25	12.5
			420850	664005	884841	1151495		25.0	37.5	50.0	62.5	
Ethyl methacrylate	CBNZ d5	Ave	6404	14893	32348	82779	147228	0.500	1.00	2.50	6.25	12.5
			381090	621124	858517	1094639		25.0	37.5	50.0	62.5	
1,1,2-Trichloroethane	CBNZ d5	Ave	4957	10983	25247	60111	107469	0.500	1.00	2.50	6.25	12.5
			248227	388751	516819	664699		25.0	37.5	50.0	62.5	
Tetrachloroethene	CBNZ d5	Ave	4166	9504	21571	50590	89463	0.500	1.00	2.50	6.25	12.5
			204928	312961	413584	543058		25.0	37.5	50.0	62.5	
1,3-Dichloropropane	CBNZ d5	Ave	8716	19720	45221	107722	188412	0.500	1.00	2.50	6.25	12.5
			438868	676234	915761	1180422		25.0	37.5	50.0	62.5	
2-Hexanone	CBNZ d5	Ave	12135	26132	65652	159688	288604	1.00	2.00	5.00	12.5	25.0
			709793	1125538	1514096	1881092		50.0	75.0	100	125	
Chlorodibromomethane	CBNZ d5	Ave	4929	10982	25075	59428	108254	0.500	1.00	2.50	6.25	12.5
			262393	416029	557334	722828		25.0	37.5	50.0	62.5	
Ethylene Dibromide	CBNZ d5	Ave	5090	11504	24808	61154	108963	0.500	1.00	2.50	6.25	12.5
			257753	399344	532489	691943		25.0	37.5	50.0	62.5	
Chlorobenzene	CBNZ d5	Ave	15523	34114	77452	180633	319321	0.500	1.00	2.50	6.25	12.5
			733703	1134913	1500153	1964341		25.0	37.5	50.0	62.5	
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	5237	11031	25762	61337	114028	0.500	1.00	2.50	6.25	12.5
			262437	404089	535757	696544		25.0	37.5	50.0	62.5	
Ethylbenzene	CBNZ d5	Ave	8641	18577	41894	102307	180168	0.500	1.00	2.50	6.25	12.5
			413177	642768	844118	1091235		25.0	37.5	50.0	62.5	

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

Lab Name: Eurofins Cleveland Job No.: 240-189273-1 Analy Batch No.: 582961

SDG No.:

Instrument ID: A3UX23 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/04/2023 15:49 Calibration End Date: 08/04/2023 19:09 Calibration ID: 71409

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
m-Xylene & p-Xylene	CBNZ d5	Ave	9741 500067	21843 770154	51085 1020994	123466 1339847	217026	0.500 25.0	1.00 37.5	2.50 50.0	6.25 62.5	12.5
o-Xylene	CBNZ d5	Ave	10260 498151	21806 763426	52395 1005356	121942 1330798	221220	0.500 25.0	1.00 37.5	2.50 50.0	6.25 62.5	12.5
Styrene	CBNZ d5	Ave	14000 779497	30791 1213811	73559 1646904	178593 2150603	322739	0.500 25.0	1.00 37.5	2.50 50.0	6.25 62.5	12.5
Bromoform	CBNZ d5	Ave	2779 162750	5821 263474	14484 359509	35900 461881	67225	0.500 25.0	1.00 37.5	2.50 50.0	6.25 62.5	12.5
Isopropylbenzene	CBNZ d5	Ave	24702 1243777	55934 1909932	126775 2499338	302040 3278255	551555	0.500 25.0	1.00 37.5	2.50 50.0	6.25 62.5	12.5
Bromobenzene	DCBd 4	Ave	5950 289672	12824 448025	30670 590981	70482 768440	125847	0.500 25.0	1.00 37.5	2.50 50.0	6.25 62.5	12.5
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	7437 352131	14891 541880	35105 726874	84872 908668	157395	0.500 25.0	1.00 37.5	2.50 50.0	6.25 62.5	12.5
1,2,3-Trichloropropane	DCBd 4	Ave	2569 115354	5331 178826	11467 237153	28499 294882	50258	0.500 25.0	1.00 37.5	2.50 50.0	6.25 62.5	12.5
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	2420 143562	6208 225761	14200 315949	32765 393624	58189	0.500 25.0	1.00 37.5	2.50 50.0	6.25 62.5	12.5
N-Propylbenzene	DCBd 4	Ave	6472 335059	15168 514793	35474 687448	80858 890968	148985	0.500 25.0	1.00 37.5	2.50 50.0	6.25 62.5	12.5
2-Chlorotoluene	DCBd 4	Ave	5413 286828	12124 444464	30377 582519	72252 763948	128825	0.500 25.0	1.00 37.5	2.50 50.0	6.25 62.5	12.5
1,3,5-Trimethylbenzene	DCBd 4	Ave	19809 1029999	43113 1553729	104042 2033938	246121 2679733	459898	0.500 25.0	1.00 37.5	2.50 50.0	6.25 62.5	12.5

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

Lab Name: Eurofins Cleveland Job No.: 240-189273-1 Analy Batch No.: 582961

SDG No.:

Instrument ID: A3UX23 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/04/2023 15:49 Calibration End Date: 08/04/2023 19:09 Calibration ID: 71409

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
4-Chlorotoluene	DCBd 4	Ave	5557 292174	13107 452954	30321 599892	70914 770051	130438	0.500 25.0	1.00 37.5	2.50 50.0	6.25 62.5	12.5
tert-Butylbenzene	DCBd 4	Ave	16221 857719	37929 1312850	86727 1739577	208989 2272635	383325	0.500 25.0	1.00 37.5	2.50 50.0	6.25 62.5	12.5
1,2,4-Trimethylbenzene	DCBd 4	Ave	19796 1066121	47089 1611016	106517 2140251	259062 2781894	473907	0.500 25.0	1.00 37.5	2.50 50.0	6.25 62.5	12.5
sec-Butylbenzene	DCBd 4	Ave	22048 1200925	53628 1817825	120513 2412956	288854 3133760	537763	0.500 25.0	1.00 37.5	2.50 50.0	6.25 62.5	12.5
1,3-Dichlorobenzene	DCBd 4	Ave	10760 528888	24298 810738	55586 1090271	133814 1402962	234641	0.500 25.0	1.00 37.5	2.50 50.0	6.25 62.5	12.5
4-Isopropyltoluene	DCBd 4	Ave	19153 1018277	44580 1540836	102289 2038494	244428 2693640	459540	0.500 25.0	1.00 37.5	2.50 50.0	6.25 62.5	12.5
1,4-Dichlorobenzene	DCBd 4	Ave	11066 542082	25260 827089	56926 1109001	134007 1420961	237573	0.500 25.0	1.00 37.5	2.50 50.0	6.25 62.5	12.5
1,2-Dichlorobenzene	DCBd 4	Ave	10481 519800	23492 787490	55038 1044328	130230 1334918	235403	0.500 25.0	1.00 37.5	2.50 50.0	6.25 62.5	12.5
n-Butylbenzene	DCBd 4	Ave	16976 879267	38850 1321634	87755 1769695	213031 2292363	395304	0.500 25.0	1.00 37.5	2.50 50.0	6.25 62.5	12.5
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	1456 73941	3307 116018	7363 157886	16572 197913	32492	0.500 25.0	1.00 37.5	2.50 50.0	6.25 62.5	12.5
1,2,4-Trichlorobenzene	DCBd 4	Ave	6413 306772	14407 454115	31945 617880	75426 784020	140975	0.500 25.0	1.00 37.5	2.50 50.0	6.25 62.5	12.5
Hexachlorobutadiene	DCBd 4	Ave	1876 102611	4939 153175	10546 210164	25674 270691	46877	0.500 25.0	1.00 37.5	2.50 50.0	6.25 62.5	12.5

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

Lab Name: Eurofins Cleveland Job No.: 240-189273-1 Analy Batch No.: 582961

SDG No.:

Instrument ID: A3UX23 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/04/2023 15:49 Calibration End Date: 08/04/2023 19:09 Calibration ID: 71409

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Naphthalene	DCBd 4	Ave	21482	48966	112039	265074	509480	0.500	1.00	2.50	6.25	12.5
			1103890	1653792	2239571	2776663		25.0	37.5	50.0	62.5	
1,2,3-Trichlorobenzene	DCBd 4	Ave	5764	13413	29635	71092	134442	0.500	1.00	2.50	6.25	12.5
			283230	417122	581521	724605		25.0	37.5	50.0	62.5	
Dibromofluoromethane (Surr)	FB	Ave	237878	241977	248584	241892	207185	25.0	25.0	25.0	25.0	25.0
			237940	244253	249107	250968		25.0	25.0	25.0	25.0	
1,2-Dichloroethane-d4 (Surr)	FB	Ave	348216	351437	357782	350475	293756	25.0	25.0	25.0	25.0	25.0
			344532	356027	359648	366220		25.0	25.0	25.0	25.0	
Toluene-d8 (Surr)	CBNZ d5	Ave	962874	977958	1008493	977535	816625	25.0	25.0	25.0	25.0	25.0
			951433	995340	1022232	1022725		25.0	25.0	25.0	25.0	
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	374459	382084	399695	393089	332546	25.0	25.0	25.0	25.0	25.0
			381499	399569	417983	413442		25.0	25.0	25.0	25.0	

Curve Type Legend
Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

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

Lab Name: Eurofins Cleveland Job No.: 240-189273-1 Analy Batch No.: 582961

SDG No.:

Instrument ID: A3UX23 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/04/2023 15:49 Calibration End Date: 08/04/2023 19:09 Calibration ID: 71409

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 240-582961/3	236428.D
Level 2	IC 240-582961/4	236429.D
Level 3	IC 240-582961/5	236430.D
Level 4	IC 240-582961/6	236431.D
Level 5	IC 240-582961/7	236432.D
Level 6	ICIS 240-582961/8	236433.D
Level 7	IC 240-582961/9	236434.D
Level 8	IC 240-582961/10	236435.D
Level 9	IC 240-582961/11	236436.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4	LVL 5	LVL 6
Dichlorodifluoromethane	12.8 -4.3	0.4 -1.2	-13.6 -5.4	7.7	7.0	-3.5	50 30	30 30	30 30	30	30	30
Chloromethane	17.5 3.0	-3.0 0.1	-14.1 -1.7	-0.5	0.7	-1.9	50 30	30 30	30 30	30	30	30
Vinyl chloride	13.4 1.3	-1.2 1.5	-19.0 -0.2	1.1	4.3	-1.1	50 30	30 30	30 30	30	30	30
Butadiene	23.1 -3.8	4.5 -3.2	-15.9 -5.6	1.2	3.9	-4.3	50 30	30 30	30 30	30	30	30
Bromomethane	12.9 -14.0	29.4 +++++	-15.9 +++++	-3.0	0.4	-9.7	50 30	30	30	30	30	30
Chloroethane	24.5 -2.0	5.4 -7.3	-9.6 -8.9	0.2	2.8	-5.1	50 30	30 30	30 30	30	30	30
Dichlorofluoromethane	-7.1 1.2	23.4 -1.6	-16.2 -2.9	-1.7	6.7	-1.8	50 30	30 30	30 30	30	30	30
Trichlorofluoromethane	0.7 3.3	-5.6 3.2	-19.0 -0.1	5.6	9.9	2.0	50 30	30 30	30 30	30	30	30
Ethyl ether	5.9 0.3	14.0 -5.4	-6.1 -3.5	-7.2	2.0	0.0	50 30	30 30	30 30	30	30	30
Acrolein	+++++ -6.8	+++++ 0.2	1.8 -7.2	5.4	1.7	4.9	 30	 30	50 30	30	30	30
1,1-Dichloroethene	+++++ -2.8	27.4 -10.3	4.1 -5.7	-9.7	2.8	-5.8	 30	50 30	30 30	30	30	30
1,1,2-Trichloro-1,2,2-trifluoroethane	10.5 -5.5	22.0 -7.9	-0.7 -7.0	-11.0	4.1	-4.4	50 30	30 30	30 30	30	30	30
Acetone	+++++ 4.4	20.9 -0.1	-20.0 -3.0	-16.2	15.4	-1.4	 30	50 30	30 30	30	30	30

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

Lab Name: Eurofins Cleveland Job No.: 240-189273-1 Analy Batch No.: 582961

SDG No.:

Instrument ID: A3UX23 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/04/2023 15:49 Calibration End Date: 08/04/2023 19:09 Calibration ID: 71409

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4	LVL 5	LVL 6
Iodomethane	0.3 0.8	9.7 -4.2	-4.5 -1.9	-5.9	5.5	0.1	50 30	30 30	30 30	30	30	30
Carbon disulfide	15.2 -2.5	12.0 -6.1	-5.9 -2.6	-9.9	2.6	-2.8	50 30	30 30	30 30	30	30	30
3-Chloro-1-propene	25.7 -4.4	16.7 -6.7	-9.0 -3.6	-12.7	-2.5	-3.6	50 30	30 30	30 30	30	30	30
Methyl acetate	-2.0 2.5	17.1 -2.1	-7.2 -0.2	-11.5	2.9	0.4	50 30	30 30	30 30	30	30	30
Methylene Chloride	6.6 1.7	-2.6 -3.0	-4.6 0.1	-6.8	6.3	2.3	50 30	30 30	30 30	30	30	30
2-Methyl-2-propanol	+++++ -11.5	38.8 -13.7	-6.2 0.1	-26.9	13.3	6.1	 30	50 30	30 30	30	30	30
Acrylonitrile	-2.4 3.4	6.1 0.2	-6.6 -0.3	-9.3	6.7	2.2	50 30	30 30	30 30	30	30	30
trans-1,2-Dichloroethene	24.0 -4.9	19.6 -10.0	-5.1 -6.6	-9.7	-1.3	-5.9	50 30	30 30	30 30	30	30	30
Methyl tert-butyl ether	7.8 1.5	9.7 -2.6	-7.5 -0.9	-8.8	1.2	-0.5	50 30	30 30	30 30	30	30	30
Hexane	5.5 -6.3	21.7 -3.3	1.0 -3.4	-13.3	1.4	-3.3	50 30	30 30	30 30	30	30	30
1,1-Dichloroethane	5.8 1.2	10.9 -3.4	-7.9 -0.8	-7.4	2.3	-0.7	50 30	30 30	30 30	30	30	30
Vinyl acetate	-7.1 3.1	7.3 5.6	-8.4 6.5	-10.2	0.3	2.7	50 30	30 30	30 30	30	30	30
2,2-Dichloropropane	24.1 -6.0	18.8 -13.9	-9.9 -11.6	-8.0	8.5	-2.0	50 30	30 30	30 30	30	30	30
cis-1,2-Dichloroethene	20.0 -3.8	20.3 -9.0	-6.8 -4.8	-9.3	-2.7	-3.9	50 30	30 30	30 30	30	30	30
2-Butanone (MEK)	23.9 -5.2	26.0 -7.6	-7.8 -6.9	-11.7	-2.4	-8.3	50 30	30 30	30 30	30	30	30
Chlorobromomethane	15.2 -3.0	15.3 -5.2	-7.0 -4.0	-7.7	-1.8	-1.8	50 30	30 30	30 30	30	30	30
Tetrahydrofuran	18.2 0.9	12.6 -3.9	-8.8 -1.3	-15.1	-1.6	-1.0	50 30	30 30	30 30	30	30	30
Chloroform	13.5 -1.3	10.9 -6.1	-5.6 -3.0	-8.5	1.9	-1.8	50 30	30 30	30 30	30	30	30
1,1,1-Trichloroethane	4.0 0.3	9.2 -3.6	-5.4 -0.9	-6.9	2.8	0.6	50 30	30 30	30 30	30	30	30

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

Lab Name: Eurofins Cleveland Job No.: 240-189273-1 Analy Batch No.: 582961

SDG No.:

Instrument ID: A3UX23 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/04/2023 15:49 Calibration End Date: 08/04/2023 19:09 Calibration ID: 71409

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4	LVL 5	LVL 6
Cyclohexane	0.8 -2.6	11.8 -2.3	-1.0 -0.9	-10.6	5.1	-0.2	50 30	30 30	30 30	30	30	30
Carbon tetrachloride	4.0 -0.7	13.5 -4.0	-2.5 -1.5	-9.6	2.0	-1.3	50 30	30 30	30 30	30	30	30
1,1-Dichloropropene	2.6 -0.5	11.2 -3.9	-3.5 0.1	-7.1	1.2	0.1	50 30	30 30	30 30	30	30	30
Benzene	4.0 -0.6	12.0 -4.0	-2.1 -1.9	-7.4	1.6	-1.6	50 30	30 30	30 30	30	30	30
1,2-Dichloroethane	4.4 -0.7	13.9 -4.6	-3.2 -3.0	-7.1	1.4	-1.0	50 30	30 30	30 30	30	30	30
Isobutyl alcohol	-8.5 0.2	20.0 0.7	-8.1 -5.1	-12.3	9.8	3.4	50 30	30 30	30 30	30	30	30
n-Heptane	13.3 -4.6	16.8 -2.8	-3.1 -2.1	-13.0	-2.7	-1.8	50 30	30 30	30 30	30	30	30
Trichloroethene	5.2 -1.1	14.8 -5.6	-1.2 -2.8	-6.8	-0.7	-1.7	50 30	30 30	30 30	30	30	30
Methylcyclohexane	6.1 -4.2	13.9 -2.6	-2.1 -2.8	-10.6	3.8	-1.5	50 30	30 30	30 30	30	30	30
1,2-Dichloropropane	-2.7 0.9	12.0 -1.0	-4.1 1.4	-6.9	-0.1	0.5	50 30	30 30	30 30	30	30	30
Dibromomethane	0.9 0.2	10.2 -1.5	-3.2 0.1	-6.4	-1.0	0.6	50 30	30 30	30 30	30	30	30
1,4-Dioxane	0.8 -6.7	17.2 -1.3	-2.9 -1.1	-12.7	5.7	1.1	50 30	30 30	30 30	30	30	30
Dichlorobromomethane	6.5 1.3	9.5 -0.8	-6.8 1.7	-9.5	-1.3	-0.6	50 30	30 30	30 30	30	30	30
2-Chloroethyl vinyl ether	-7.6 5.7	3.3 5.6	-6.4 5.2	-7.9	-0.1	2.3	50 30	30 30	30 30	30	30	30
cis-1,3-Dichloropropene	-7.1 4.5	3.8 3.9	-7.4 4.4	-6.6	1.1	3.2	50 30	30 30	30 30	30	30	30
4-Methyl-2-pentanone (MIBK)	-13.1 11.1	-2.6 7.9	-14.4 7.9	-11.7	6.4	8.5	50 30	30 30	30 30	30	30	30
Toluene	8.7 -2.1	15.0 -6.7	-3.0 -2.8	-6.3	-1.3	-1.5	50 30	30 30	30 30	30	30	30
trans-1,3-Dichloropropene	-6.6 6.4	4.8 2.5	-7.5 6.4	-8.5	-1.2	3.6	50 30	30 30	30 30	30	30	30
Ethyl methacrylate	-10.6 11.2	2.7 11.2	-15.5 13.1	-12.1	-4.9	4.8	50 30	30 30	30 30	30	30	30

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

Lab Name: Eurofins Cleveland Job No.: 240-189273-1 Analy Batch No.: 582961

SDG No.:

Instrument ID: A3UX23 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/04/2023 15:49 Calibration End Date: 08/04/2023 19:09 Calibration ID: 71409

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4	LVL 5	LVL 6
1,1,2-Trichloroethane	0.8 1.5	10.3 -2.4	-3.9 0.0	-7.0	1.2	-0.5	50 30	30 30	30 30	30	30	30
Tetrachloroethene	1.9 -1.8	14.8 -6.1	-1.2 -1.7	-5.9	1.3	-1.2	50 30	30 30	30 30	30	30	30
1,3-Dichloropropane	0.1 -0.4	11.8 -2.4	-2.8 0.3	-5.9	0.1	-0.7	50 30	30 30	30 30	30	30	30
2-Hexanone	-8.4 9.0	-2.6 6.1	-7.2 5.1	-8.3	0.8	5.6	50 30	30 30	30 30	30	30	30
Chlorodibromomethane	-2.7 5.3	7.0 2.1	-7.4 5.5	-10.8	-1.1	2.0	50 30	30 30	30 30	30	30	30
Ethylene Dibromide	1.0 1.6	12.7 -2.0	-7.9 1.6	-7.7	0.0	0.8	50 30	30 30	30 30	30	30	30
Chlorobenzene	5.1 -1.4	14.1 -5.7	-1.8 -1.5	-6.9	0.1	-2.1	50 30	30 30	30 30	30	30	30
1,1,1,2-Tetrachloroethane	2.6 1.6	6.7 -2.6	-5.5 1.0	-8.6	3.4	1.3	50 30	30 30	30 30	30	30	30
Ethylbenzene	5.0 0.2	11.5 -4.8	-4.7 -1.9	-5.4	1.3	-1.1	50 30	30 30	30 30	30	30	30
m-Xylene & p-Xylene	-1.1 0.3	9.5 -3.8	-2.9 0.6	-4.6	2.0	0.0	50 30	30 30	30 30	30	30	30
o-Xylene	3.6 -1.1	8.7 -5.8	-1.0 -0.6	-6.3	3.4	-0.9	50 30	30 30	30 30	30	30	30
Styrene	-5.7 4.9	2.4 2.9	-7.3 7.2	-8.5	0.6	3.5	50 30	30 30	30 30	30	30	30
Bromoform	-9.2 10.4	-6.1 9.0	-11.4 11.6	-10.8	1.7	4.8	50 30	30 30	30 30	30	30	30
Isopropylbenzene	0.6 -0.2	12.5 -5.6	-3.4 -1.2	-6.4	4.0	-0.2	50 30	30 30	30 30	30	30	30
Bromobenzene	0.8 2.6	8.9 -3.2	-1.9 2.0	-7.7	-1.9	0.3	50 30	30 30	30 30	30	30	30
1,1,2,2-Tetrachloroethane	4.6 3.0	5.0 -1.2	-6.8 0.2	-7.7	1.8	1.2	50 30	30 30	30 30	30	30	30
1,2,3-Trichloropropane	8.5 2.1	12.9 -3.1	-8.5 -2.3	-6.9	-2.3	-0.4	50 30	30 30	30 30	30	30	30
trans-1,4-Dichloro-2-butene	-14.8 7.5	9.6 7.6	-5.6 8.7	-10.8	-5.7	3.4	50 30	30 30	30 30	30	30	30
N-Propylbenzene	-5.0 2.1	11.6 -2.4	-1.7 2.5	-8.2	0.6	0.5	50 30	30 30	30 30	30	30	30

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

Lab Name: Eurofins Cleveland Job No.: 240-189273-1 Analy Batch No.: 582961

SDG No.:

Instrument ID: A3UX23 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/04/2023 15:49 Calibration End Date: 08/04/2023 19:09 Calibration ID: 71409

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4	LVL 5	LVL 6
2-Chlorotoluene	-6.7 3.5	4.7 -2.9	-1.2 3.2	-3.7	2.1	1.0	50 30	30 30	30 30	30	30	30
1,3,5-Trimethylbenzene	-3.1 2.7	5.7 -3.8	-3.9 2.8	-6.9	3.5	3.0	50 30	30 30	30 30	30	30	30
4-Chlorotoluene	-6.1 3.4	11.0 -2.0	-3.3 2.0	-7.3	1.4	0.9	50 30	30 30	30 30	30	30	30
tert-Butylbenzene	-6.0 2.8	10.2 -2.5	-5.1 3.2	-6.4	2.2	1.6	50 30	30 30	30 30	30	30	30
1,2,4-Trimethylbenzene	-6.9 2.4	11.0 -2.7	-5.4 2.5	-5.8	2.5	2.5	50 30	30 30	30 30	30	30	30
sec-Butylbenzene	-8.0 2.5	12.1 -2.7	-5.1 2.5	-6.8	3.2	2.4	50 30	30 30	30 30	30	30	30
1,3-Dichlorobenzene	-1.1 0.8	12.0 -3.1	-3.5 1.1	-4.9	-0.8	-0.6	50 30	30 30	30 30	30	30	30
4-Isopropyltoluene	-6.0 2.3	9.7 -3.2	-5.2 3.7	-7.2	3.8	2.2	50 30	30 30	30 30	30	30	30
1,4-Dichlorobenzene	-0.3 0.7	14.1 -3.4	-3.2 0.4	-6.6	-1.6	-0.2	50 30	30 30	30 30	30	30	30
1,2-Dichlorobenzene	-1.1 0.4	11.1 -4.7	-1.9 -1.3	-5.0	2.2	0.3	50 30	30 30	30 30	30	30	30
n-Butylbenzene	-3.7 1.4	10.5 -2.9	-6.0 2.0	-6.5	3.2	2.0	50 30	30 30	30 30	30	30	30
1,2-Dibromo-3-Chloropropane	-2.5 5.0	11.0 2.3	-6.9 3.9	-14.2	0.1	1.2	50 30	30 30	30 30	30	30	30
1,2,4-Trichlorobenzene	2.1 -2.2	15.0 -4.8	-3.9 -2.1	-7.1	3.3	-0.1	50 30	30 30	30 30	30	30	30
Hexachlorobutadiene	-10.2 -0.9	18.5 -2.7	-4.7 1.5	-5.0	3.2	0.4	50 30	30 30	30 30	30	30	30
Naphthalene	-3.1 0.9	10.8 -2.3	-4.5 -1.8	-7.5	5.7	1.8	50 30	30 30	30 30	30	30	30
1,2,3-Trichlorobenzene	-1.2 -3.3	15.3 -3.6	-4.1 -2.6	-5.8	6.0	-0.7	50 30	30 30	30 30	30	30	30
Dibromofluoromethane (Surr)	-0.9 0.7	-0.8 1.1	-1.2 -0.5	-1.6	2.7	0.5	50 30	30 30	30 30	30	30	30
1,2-Dichloroethane-d4 (Surr)	0.2 1.4	-0.5 0.8	-1.7 0.3	-1.5	0.6	0.5	50 30	30 30	30 30	30	30	30
Toluene-d8 (Surr)	1.5 1.0	1.8 0.0	-0.5 -0.3	-2.0	-0.4	-1.2	50 30	30 30	30 30	30	30	30

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

Lab Name: Eurofins Cleveland Job No.: 240-189273-1 Analy Batch No.: 582961

SDG No.:

Instrument ID: A3UX23 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/04/2023 15:49 Calibration End Date: 08/04/2023 19:09 Calibration ID: 71409

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4	LVL 5	LVL 6
4-Bromofluorobenzene (Surr)	-1.3 1.3	-0.6 2.2	-1.4 0.8	-1.5	1.4	-0.9	50 30	30 30	30 30	30	30	30

Eurofins Cleveland
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\236428.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 04-Aug-2023 15:49:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0132136-003
Operator ID: Instrument ID: A3UX23
Sublist: chrom-8260_23*sub1

Method: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\8260_23.m
Limit Group: MSV 8260C ICAL
Last Update: 05-Aug-2023 12:38:29 Calib Date: 04-Aug-2023 19:09:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\236436.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1647

First Level Reviewer: SE1B Date: 05-Aug-2023 10:56:04

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.591	6.591	0.000	98	1093033	25.0	25.0	
* 2 Chlorobenzene-d5	117	9.738	9.738	0.000	90	778848	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	12.058	12.057	0.001	98	381161	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.810	5.810	0.000	92	237878	25.0	24.8	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.188	6.188	0.000	97	348216	25.0	25.1	
$ 6 Toluene-d8 (Surr)	98	8.283	8.283	0.000	96	962874	25.0	25.4	
$ 7 4-Bromofluorobenzene (Surr)	95	10.910	10.910	0.000	87	374459	25.0	24.7	
9 Dichlorodifluoromethane	85	1.266	1.266	0.000	98	8032	0.5000	0.5642	
10 Chloromethane	50	1.420	1.431	-0.011	98	12061	0.5000	0.5874	
11 Vinyl chloride	62	1.526	1.526	0.000	98	8088	0.5000	0.5669	
12 Butadiene	54	1.550	1.550	0.000	96	11725	0.5000	0.6157	
13 Bromomethane	94	1.834	1.834	0.000	86	4414	0.5000	0.5646	
14 Chloroethane	64	1.917	1.917	0.000	95	5434	0.5000	0.6225	
15 Dichlorofluoromethane	67	2.130	2.130	0.000	97	7599	0.5000	0.4647	
16 Trichlorofluoromethane	101	2.153	2.177	-0.024	97	7163	0.5000	0.5035	
17 Ethyl ether	59	2.473	2.473	0.000	92	6312	0.5000	0.5293	
18 Acrolein	56		2.603				ND	ND	
19 1,1-Dichloroethene	96	2.710	2.698	0.012	94	7144	0.5000	0.7615	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.745	2.745	0.000	89	4280	0.5000	0.5524	
21 Acetone	58	2.792	2.792	0.000	98	7819	1.00	2.70	
23 Iodomethane	142	2.875	2.875	0.000	99	7500	0.5000	0.5016	
24 Carbon disulfide	76	2.923	2.934	-0.011	100	16689	0.5000	0.5759	
26 3-Chloro-1-propene	41	3.147	3.147	0.000	88	17061	0.5000	0.6287	
27 Methyl acetate	43	3.230	3.218	0.012	99	16980	1.00	0.9795	
28 Methylene Chloride	84	3.313	3.313	0.000	96	12874	0.5000	0.5330	
29 2-Methyl-2-propanol	59	3.609	3.609	0.000	93	10374	5.00	6.68	
30 Acrylonitrile	53	3.680	3.680	0.000	98	36088	5.00	4.88	
32 trans-1,2-Dichloroethene	96	3.704	3.703	0.001	95	7192	0.5000	0.6202	
31 Methyl tert-butyl ether	73	3.763	3.763	0.000	97	18785	0.5000	0.5391	
33 Hexane	57	4.153	4.165	-0.012	93	9554	0.5000	0.5275	
34 1,1-Dichloroethane	63	4.354	4.354	0.000	96	12141	0.5000	0.5290	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Vinyl acetate	43	4.508	4.508	0.000	97	14179	0.5000	0.4647	
41 2,2-Dichloropropane	97	5.159	5.171	-0.012	41	1815	0.5000	0.6206	
39 cis-1,2-Dichloroethene	96	5.183	5.183	0.001	39	7722	0.5000	0.6001	
40 2-Butanone (MEK)	72	5.265	5.265	0.000	99	2479	1.00	1.24	
45 Chlorobromomethane	128	5.478	5.478	0.000	91	3413	0.5000	0.5761	
46 Tetrahydrofuran	42	5.597	5.585	0.012	88	8160	1.00	1.18	
47 Chloroform	83	5.609	5.608	0.001	97	11733	0.5000	0.5675	
48 1,1,1-Trichloroethane	97	5.810	5.810	0.000	37	9219	0.5000	0.5198	
49 Cyclohexane	56	5.857	5.857	0.000	94	11719	0.5000	0.5040	
51 Carbon tetrachloride	117	5.999	5.999	0.000	94	8026	0.5000	0.5198	
50 1,1-Dichloropropene	75	6.011	6.011	0.000	88	8008	0.5000	0.5128	
54 Benzene	78	6.248	6.247	0.001	94	24213	0.5000	0.5198	
53 1,2-Dichloroethane	62	6.283	6.283	0.000	96	10316	0.5000	0.5218	
52 Isobutyl alcohol	41	6.307	6.307	0.000	88	8100	12.5	11.4	
56 n-Heptane	100	6.614	6.614	0.000	89	1339	0.5000	0.5664	
58 Trichloroethene	130	6.993	6.993	0.000	95	6191	0.5000	0.5260	
60 Methylcyclohexane	83	7.194	7.194	0.000	91	9501	0.5000	0.5305	
61 1,2-Dichloropropane	63	7.230	7.230	0.000	93	6095	0.5000	0.4864	
63 Dibromomethane	93	7.360	7.348	0.012	88	3532	0.5000	0.5045	
64 1,4-Dioxane	88	7.431	7.431	0.000	82	1125	10.0	10.1	
65 Dichlorobromomethane	83	7.537	7.537	0.000	95	7932	0.5000	0.5327	
67 2-Chloroethyl vinyl ether	63	7.892	7.892	0.000	91	8257	1.00	0.9240	
68 cis-1,3-Dichloropropene	75	8.023	8.022	0.001	88	8201	0.5000	0.4644	
69 4-Methyl-2-pentanone (MIBK)	43	8.212	8.212	0.000	99	17243	1.00	0.8689	
70 Toluene	91	8.354	8.354	0.000	97	26100	0.5000	0.5433	
71 trans-1,3-Dichloropropene	75	8.590	8.590	0.000	95	7483	0.5000	0.4672	
72 Ethyl methacrylate	69	8.721	8.721	0.000	93	6404	0.5000	0.4470	
73 1,1,2-Trichloroethane	97	8.768	8.768	0.000	95	4957	0.5000	0.5041	
75 Tetrachloroethene	164	8.910	8.910	0.000	88	4166	0.5000	0.5094	
74 1,3-Dichloropropane	76	8.934	8.934	0.000	96	8716	0.5000	0.5003	
76 2-Hexanone	43	9.052	9.052	0.000	98	12135	1.00	0.9159	
78 Chlorodibromomethane	129	9.158	9.158	0.000	89	4929	0.5000	0.4863	
80 Ethylene Dibromide	107	9.253	9.265	-0.012	96	5090	0.5000	0.5048	
82 Chlorobenzene	112	9.762	9.762	0.000	94	15523	0.5000	0.5257	
83 1,1,1,2-Tetrachloroethane	131	9.845	9.857	-0.011	91	5237	0.5000	0.5130	
84 Ethylbenzene	106	9.880	9.880	0.000	98	8641	0.5000	0.5249	
85 m-Xylene & p-Xylene	106	9.999	9.999	0.001	97	9741	0.5000	0.4944	
86 o-Xylene	106	10.389	10.389	0.000	97	10260	0.5000	0.5179	
87 Styrene	104	10.401	10.401	0.000	92	14000	0.5000	0.4714	
88 Bromoform	173	10.578	10.578	0.000	95	2779	0.5000	0.4539	
89 Isopropylbenzene	105	10.768	10.768	0.000	96	24702	0.5000	0.5029	
93 Bromobenzene	156	11.052	11.052	0.000	94	5950	0.5000	0.5040	
92 1,1,2,2-Tetrachloroethane	83	11.052	11.063	-0.011	96	7437	0.5000	0.5229	
95 1,2,3-Trichloropropane	110	11.099	11.099	0.000	88	2569	0.5000	0.5427	
94 trans-1,4-Dichloro-2-butene	53	11.123	11.123	0.000	73	2420	0.5000	0.4262	
96 N-Propylbenzene	120	11.170	11.170	0.000	99	6472	0.5000	0.4750	
97 2-Chlorotoluene	126	11.253	11.253	0.000	95	5413	0.5000	0.4664	
99 1,3,5-Trimethylbenzene	105	11.348	11.347	0.001	94	19809	0.5000	0.4845	
100 4-Chlorotoluene	126	11.359	11.359	0.000	99	5557	0.5000	0.4695	
102 tert-Butylbenzene	119	11.667	11.667	0.000	91	16221	0.5000	0.4700	
104 1,2,4-Trimethylbenzene	105	11.714	11.714	0.000	97	19796	0.5000	0.4654	
105 sec-Butylbenzene	105	11.892	11.892	0.000	94	22048	0.5000	0.4598	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,3-Dichlorobenzene	146	11.987	11.986	0.001	95	10760	0.5000	0.4947	
107 4-Isopropyltoluene	119	12.034	12.034	0.000	95	19153	0.5000	0.4702	
108 1,4-Dichlorobenzene	146	12.081	12.081	0.000	92	11066	0.5000	0.4985	
111 n-Butylbenzene	91	12.448	12.448	0.000	97	16976	0.5000	0.4817	
112 1,2-Dichlorobenzene	146	12.448	12.448	0.000	77	10481	0.5000	0.4945	
113 1,2-Dibromo-3-Chloropropane	157	13.217	13.217	0.000	74	1456	0.5000	0.4876	
115 1,2,4-Trichlorobenzene	180	14.045	14.045	0.000	93	6413	0.5000	0.5107	
116 Hexachlorobutadiene	225	14.235	14.235	0.000	89	1876	0.5000	0.4489	
117 Naphthalene	128	14.282	14.282	0.000	98	21482	0.5000	0.4847	
118 1,2,3-Trichlorobenzene	180	14.531	14.531	0.001	92	5764	0.5000	0.4941	
S 134 Trihalomethanes, Total	1				0		2.00	2.04	
S 158 Total BTEX	1				0		2.50	2.60	
S 131 1,2-Dichloroethene, Total	96				0			1.22	
S 132 1,3-Dichloropropene, Total	75				0			0.9315	
S 133 Xylenes, Total	106				0		1.00	1.01	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

VMRPRIMW_00542	Amount Added:	0.40	Units: uL	
VMAROLISTDW_00495	Amount Added:	0.40	Units: uL	
VMRGAS_00487	Amount Added:	0.40	Units: uL	
vm125UX21_SS_00007	Amount Added:	1.00	Units: uL	Run Reagent
vm40ml_vials_00024	Amount Added:	0.00	Units:	Run Reagent
vm125UX21_IS_00050	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00237	Amount Added:	0.00	Units:	Run Reagent

Report Date: 05-Aug-2023 12:38:29 Chrom Revision: 2.3 03-Aug-2023 16:11:04

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\236428.D

Injection Date: 04-Aug-2023 15:49:30 Instrument ID: A3UX23 Operator ID:

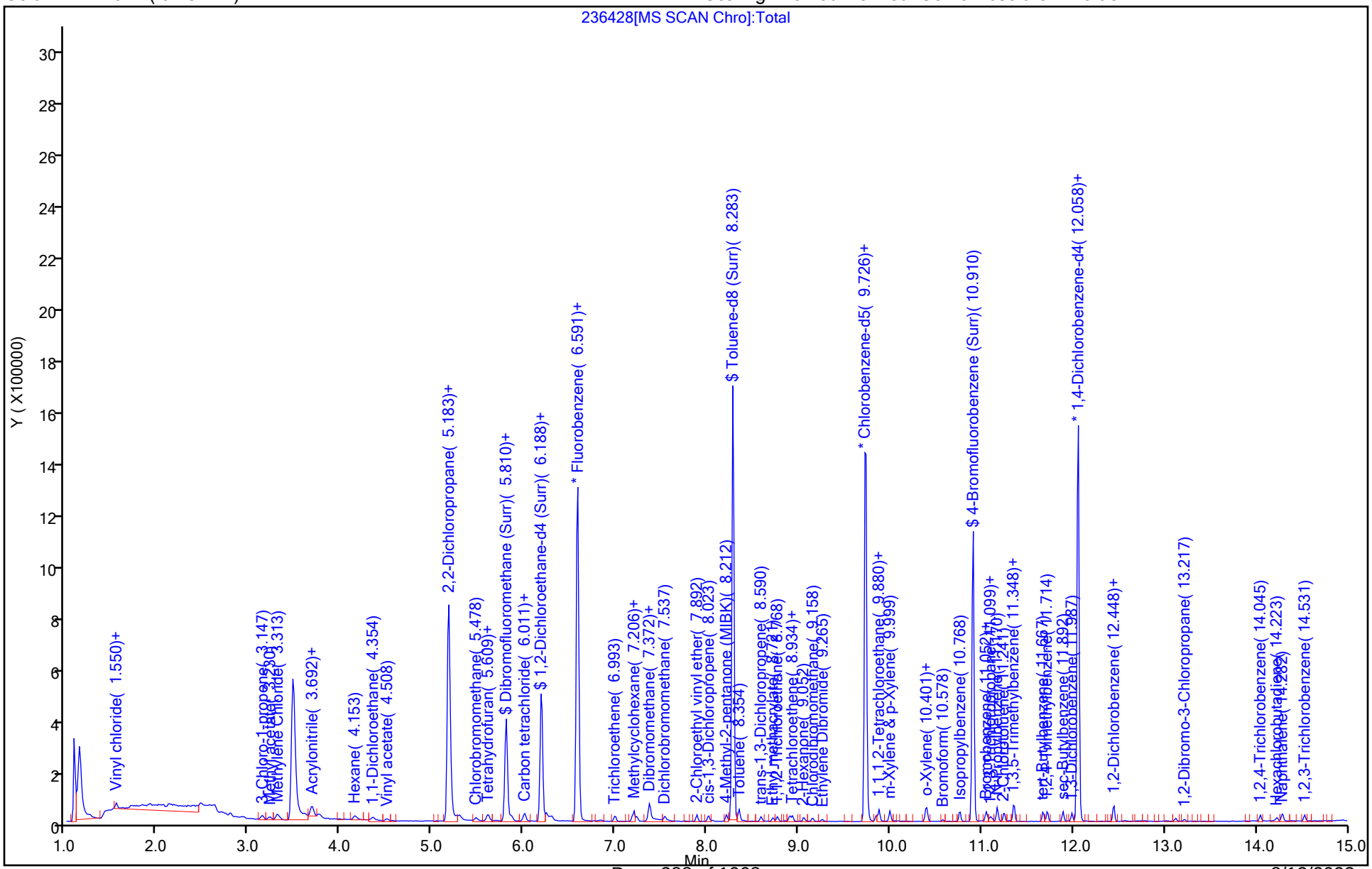
Lims ID: ic Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 2

Method: 8260_23 Limit Group: MSV 8260C ICAL

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Cleveland
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\236429.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 04-Aug-2023 16:14:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0132136-004
Operator ID: Instrument ID: A3UX23
Sublist: chrom-8260_23*sub1

Method: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\8260_23.m
Limit Group: MSV 8260C ICAL
Last Update: 05-Aug-2023 12:38:32 Calib Date: 04-Aug-2023 19:09:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\236436.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1647

First Level Reviewer: SE1B Date: 05-Aug-2023 10:57:59

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.591	6.591	0.000	98	1111185	25.0	25.0	
* 2 Chlorobenzene-d5	117	9.738	9.738	0.000	89	788501	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	12.058	12.057	0.001	98	380211	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.810	5.810	0.000	93	241977	25.0	24.8	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.189	6.188	0.000	97	351437	25.0	24.9	
$ 6 Toluene-d8 (Surr)	98	8.283	8.283	0.000	96	977958	25.0	25.5	
$ 7 4-Bromofluorobenzene (Surr)	95	10.910	10.910	0.000	86	382084	25.0	24.9	
9 Dichlorodifluoromethane	85	1.266	1.266	0.000	98	14530	1.00	1.00	
10 Chloromethane	50	1.420	1.431	-0.011	100	20254	1.00	0.9704	
11 Vinyl chloride	62	1.526	1.526	0.000	99	14326	1.00	0.9878	
12 Butadiene	54	1.550	1.550	0.000	98	20225	1.00	1.04	
13 Bromomethane	94	1.834	1.834	0.000	90	10284	1.00	1.29	
14 Chloroethane	64	1.905	1.917	-0.012	95	9351	1.00	1.05	
15 Dichlorofluoromethane	67	2.118	2.130	-0.012	99	20513	1.00	1.23	
16 Trichlorofluoromethane	101	2.153	2.177	-0.024	94	13650	1.00	0.9438	
17 Ethyl ether	59	2.473	2.473	0.000	96	13824	1.00	1.14	
18 Acrolein	56	2.603	2.603	0.000	59	8839	5.00	11.6	
19 1,1-Dichloroethene	96	2.698	2.698	0.000	95	12150	1.00	1.27	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.745	2.745	0.000	92	9610	1.00	1.22	
21 Acetone	58	2.792	2.792	0.000	98	7491	2.00	2.42	
23 Iodomethane	142	2.863	2.875	-0.012	99	16668	1.00	1.10	
24 Carbon disulfide	76	2.934	2.934	0.000	100	32994	1.00	1.12	
26 3-Chloro-1-propene	41	3.147	3.147	0.000	87	32189	1.00	1.17	
27 Methyl acetate	43	3.218	3.218	0.000	100	41279	2.00	2.34	
28 Methylene Chloride	84	3.313	3.313	0.000	95	17962	1.00	0.9739	
29 2-Methyl-2-propanol	59	3.609	3.609	0.000	94	21918	10.0	13.9	
30 Acrylonitrile	53	3.680	3.680	0.000	98	79825	10.0	10.6	
32 trans-1,2-Dichloroethene	96	3.704	3.703	0.001	95	14097	1.00	1.20	
31 Methyl tert-butyl ether	73	3.763	3.763	0.000	95	38849	1.00	1.10	
33 Hexane	57	4.153	4.165	-0.012	95	22407	1.00	1.22	
34 1,1-Dichloroethane	63	4.354	4.354	0.000	97	25882	1.00	1.11	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Vinyl acetate	43	4.508	4.508	0.000	97	33285	1.00	1.07	
41 2,2-Dichloropropane	97	5.171	5.171	0.000	68	3532	1.00	1.19	
39 cis-1,2-Dichloroethene	96	5.183	5.183	0.001	58	15740	1.00	1.20	
40 2-Butanone (MEK)	72	5.266	5.265	0.001	98	5128	2.00	2.52	
45 Chlorobromomethane	128	5.479	5.478	0.001	92	6941	1.00	1.15	
46 Tetrahydrofuran	42	5.597	5.585	0.012	94	15808	2.00	2.25	
47 Chloroform	83	5.609	5.608	0.001	98	23309	1.00	1.11	
48 1,1,1-Trichloroethane	97	5.810	5.810	0.000	39	19690	1.00	1.09	
49 Cyclohexane	56	5.857	5.857	0.000	97	26421	1.00	1.12	
51 Carbon tetrachloride	117	5.999	5.999	0.000	94	17820	1.00	1.14	
50 1,1-Dichloropropene	75	6.011	6.011	0.000	90	17650	1.00	1.11	
54 Benzene	78	6.248	6.247	0.001	98	53043	1.00	1.12	
53 1,2-Dichloroethane	62	6.283	6.283	0.000	96	22885	1.00	1.14	
52 Isobutyl alcohol	41	6.307	6.307	0.000	91	21595	25.0	30.0	
56 n-Heptane	100	6.614	6.614	0.000	96	2806	1.00	1.17	
58 Trichloroethene	130	6.993	6.993	0.000	96	13739	1.00	1.15	
60 Methylcyclohexane	83	7.194	7.194	0.000	96	20748	1.00	1.14	
61 1,2-Dichloropropane	63	7.230	7.230	0.000	93	14268	1.00	1.12	
63 Dibromomethane	93	7.348	7.348	0.000	96	7846	1.00	1.10	
64 1,4-Dioxane	88	7.431	7.431	0.000	90	2658	20.0	23.4	
65 Dichlorobromomethane	83	7.537	7.537	0.000	96	16576	1.00	1.10	
67 2-Chloroethyl vinyl ether	63	7.892	7.892	0.000	90	18771	2.00	2.07	
68 cis-1,3-Dichloropropene	75	8.023	8.022	0.001	85	18633	1.00	1.04	
69 4-Methyl-2-pentanone (MIBK)	43	8.212	8.212	0.000	99	39301	2.00	1.95	
70 Toluene	91	8.354	8.354	0.000	98	55946	1.00	1.15	
71 trans-1,3-Dichloropropene	75	8.591	8.590	0.001	94	17000	1.00	1.05	
72 Ethyl methacrylate	69	8.721	8.721	0.000	94	14893	1.00	1.03	
73 1,1,2-Trichloroethane	97	8.768	8.768	0.000	96	10983	1.00	1.10	
75 Tetrachloroethene	164	8.910	8.910	0.000	96	9504	1.00	1.15	
74 1,3-Dichloropropane	76	8.934	8.934	0.000	96	19720	1.00	1.12	
76 2-Hexanone	43	9.052	9.052	0.000	98	26132	2.00	1.95	
78 Chlorodibromomethane	129	9.159	9.158	0.001	89	10982	1.00	1.07	
80 Ethylene Dibromide	107	9.265	9.265	0.000	94	11504	1.00	1.13	
82 Chlorobenzene	112	9.762	9.762	0.000	96	34114	1.00	1.14	
83 1,1,1,2-Tetrachloroethane	131	9.845	9.857	-0.011	91	11031	1.00	1.07	
84 Ethylbenzene	106	9.880	9.880	0.000	99	18577	1.00	1.11	
85 m-Xylene & p-Xylene	106	9.999	9.999	0.001	97	21843	1.00	1.10	
86 o-Xylene	106	10.389	10.389	0.000	96	21806	1.00	1.09	
87 Styrene	104	10.401	10.401	0.000	88	30791	1.00	1.02	
88 Bromoform	173	10.579	10.578	0.001	90	5821	1.00	0.9391	
89 Isopropylbenzene	105	10.768	10.768	0.000	96	55934	1.00	1.12	
93 Bromobenzene	156	11.052	11.052	0.000	97	12824	1.00	1.09	
92 1,1,2,2-Tetrachloroethane	83	11.064	11.063	0.001	96	14891	1.00	1.05	
95 1,2,3-Trichloropropane	110	11.099	11.099	0.000	92	5331	1.00	1.13	
94 trans-1,4-Dichloro-2-butene	53	11.111	11.123	-0.012	73	6208	1.00	1.10	
96 N-Propylbenzene	120	11.170	11.170	0.000	99	15168	1.00	1.12	
97 2-Chlorotoluene	126	11.253	11.253	0.000	95	12124	1.00	1.05	
99 1,3,5-Trimethylbenzene	105	11.348	11.347	0.001	94	43113	1.00	1.06	
100 4-Chlorotoluene	126	11.359	11.359	0.000	98	13107	1.00	1.11	
102 tert-Butylbenzene	119	11.667	11.667	0.000	93	37929	1.00	1.10	
104 1,2,4-Trimethylbenzene	105	11.714	11.714	0.000	97	47089	1.00	1.11	
105 sec-Butylbenzene	105	11.892	11.892	0.000	95	53628	1.00	1.12	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,3-Dichlorobenzene	146	11.987	11.986	0.001	97	24298	1.00	1.12	
107 4-Isopropyltoluene	119	12.034	12.034	0.000	97	44580	1.00	1.10	
108 1,4-Dichlorobenzene	146	12.081	12.081	0.000	95	25260	1.00	1.14	
111 n-Butylbenzene	91	12.448	12.448	0.000	97	38850	1.00	1.11	
112 1,2-Dichlorobenzene	146	12.448	12.448	0.000	79	23492	1.00	1.11	
113 1,2-Dibromo-3-Chloropropane	157	13.217	13.217	0.000	73	3307	1.00	1.11	
115 1,2,4-Trichlorobenzene	180	14.046	14.045	0.001	94	14407	1.00	1.15	
116 Hexachlorobutadiene	225	14.223	14.235	-0.012	94	4939	1.00	1.18	
117 Naphthalene	128	14.282	14.282	0.000	98	48966	1.00	1.11	
118 1,2,3-Trichlorobenzene	180	14.531	14.531	0.001	95	13413	1.00	1.15	
S 134 Trihalomethanes, Total	1				0		4.00	4.21	
S 158 Total BTEX	1				0		5.00	5.57	
S 131 1,2-Dichloroethene, Total	96				0			2.40	
S 132 1,3-Dichloropropene, Total	75				0			2.09	
S 133 Xylenes, Total	106				0		2.00	2.18	

QC Flag Legend

Processing Flags

Reagents:

VMRGAS_00487	Amount Added:	0.80	Units: uL	
VMRPRIMW_00542	Amount Added:	0.80	Units: uL	
VMAROLISTDW_00495	Amount Added:	0.80	Units: uL	
vm125UX21_SS_00007	Amount Added:	1.00	Units: uL	Run Reagent
vm40ml_vials_00024	Amount Added:	0.00	Units:	Run Reagent
vm125UX21_IS_00050	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00237	Amount Added:	0.00	Units:	Run Reagent

Report Date: 05-Aug-2023 12:38:32 Chrom Revision: 2.3 03-Aug-2023 16:11:04

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\236429.D

Injection Date: 04-Aug-2023 16:14:30 Instrument ID: A3UX23 Operator ID:

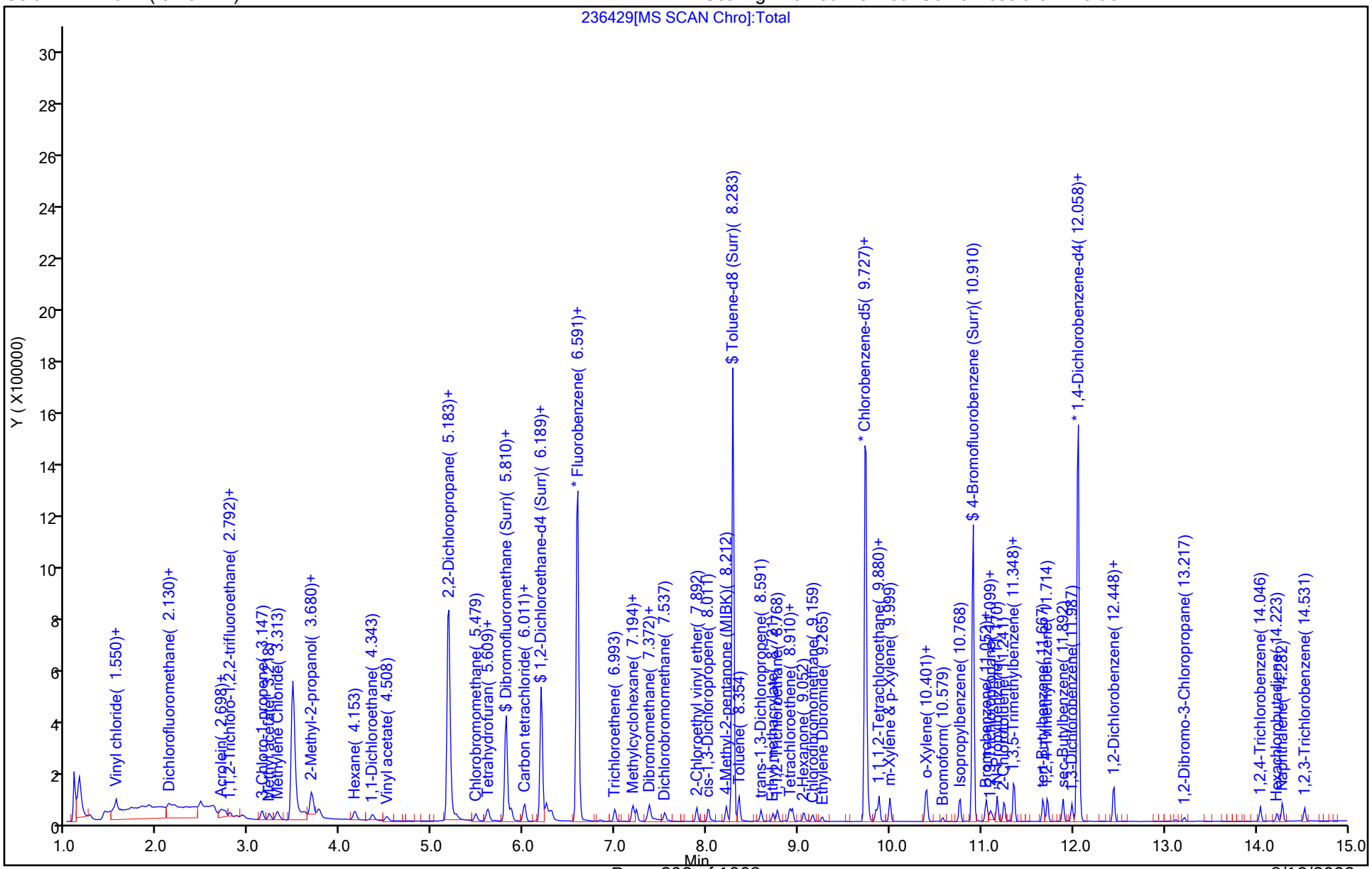
Lims ID: ic Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 3

Method: 8260_23 Limit Group: MSV 8260C ICAL

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Cleveland
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\236430.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 04-Aug-2023 16:39:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0132136-005
Operator ID: Instrument ID: A3UX23
Sublist: chrom-8260_23*sub1

Method: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\8260_23.m
Limit Group: MSV 8260C ICAL
Last Update: 05-Aug-2023 12:38:35 Calib Date: 04-Aug-2023 19:09:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\236436.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1647

First Level Reviewer: SE1B Date: 05-Aug-2023 10:58:42

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.591	6.591	0.000	98	1145567	25.0	25.0	
* 2 Chlorobenzene-d5	117	9.738	9.738	0.000	90	832126	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	12.058	12.057	0.001	98	403723	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.810	5.810	0.000	93	248584	25.0	24.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.188	6.188	0.000	97	357782	25.0	24.6	
$ 6 Toluene-d8 (Surr)	98	8.283	8.283	0.000	95	1008493	25.0	24.9	
$ 7 4-Bromofluorobenzene (Surr)	95	10.910	10.910	0.000	85	399695	25.0	24.6	
9 Dichlorodifluoromethane	85	1.266	1.266	0.000	98	32226	2.50	2.16	
10 Chloromethane	50	1.432	1.431	0.001	100	46184	2.50	2.15	
11 Vinyl chloride	62	1.526	1.526	0.000	98	30293	2.50	2.03	
12 Butadiene	54	1.562	1.550	0.012	98	41983	2.50	2.10	
13 Bromomethane	94	1.846	1.834	0.012	91	17232	2.50	2.10	
14 Chloroethane	64	1.917	1.917	0.000	97	20666	2.50	2.26	
15 Dichlorofluoromethane	67	2.130	2.130	0.000	98	35922	2.50	2.10	
16 Trichlorofluoromethane	101	2.177	2.177	0.000	96	30181	2.50	2.02	
17 Ethyl ether	59	2.473	2.473	0.000	96	29347	2.50	2.35	
18 Acrolein	56	2.603	2.603	0.000	98	10002	12.5	12.7	
19 1,1-Dichloroethene	96	2.710	2.698	0.012	94	25595	2.50	2.60	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.757	2.745	0.012	91	20148	2.50	2.48	
21 Acetone	58	2.804	2.792	0.012	97	10400	5.00	4.00	
23 Iodomethane	142	2.887	2.875	0.012	100	37421	2.50	2.39	
24 Carbon disulfide	76	2.946	2.934	0.012	99	71422	2.50	2.35	
26 3-Chloro-1-propene	41	3.147	3.147	0.000	86	64718	2.50	2.28	
27 Methyl acetate	43	3.218	3.218	0.000	100	84318	5.00	4.64	
28 Methylene Chloride	84	3.313	3.313	0.000	96	34599	2.50	2.38	
29 2-Methyl-2-propanol	59	3.609	3.609	0.000	93	38151	25.0	23.4	
30 Acrylonitrile	53	3.680	3.680	0.000	97	180951	25.0	23.3	
32 trans-1,2-Dichloroethene	96	3.704	3.703	0.001	94	28834	2.50	2.37	
31 Methyl tert-butyl ether	73	3.763	3.763	0.000	96	84431	2.50	2.31	
33 Hexane	57	4.165	4.165	0.000	96	47941	2.50	2.53	
34 1,1-Dichloroethane	63	4.354	4.354	0.000	97	55387	2.50	2.30	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Vinyl acetate	43	4.508	4.508	0.000	97	73254	2.50	2.29	
41 2,2-Dichloropropane	97	5.171	5.171	0.000	72	6904	2.50	2.25	
39 cis-1,2-Dichloroethene	96	5.183	5.183	0.001	54	31435	2.50	2.33	
40 2-Butanone (MEK)	72	5.266	5.265	0.001	98	9665	5.00	4.61	
45 Chlorobromomethane	128	5.479	5.478	0.000	90	14432	2.50	2.32	
46 Tetrahydrofuran	42	5.597	5.585	0.012	93	33002	5.00	4.56	
47 Chloroform	83	5.609	5.608	0.001	99	51133	2.50	2.36	
48 1,1,1-Trichloroethane	97	5.810	5.810	0.000	44	43938	2.50	2.36	
49 Cyclohexane	56	5.857	5.857	0.000	97	60309	2.50	2.47	
51 Carbon tetrachloride	117	5.999	5.999	0.000	96	39437	2.50	2.44	
50 1,1-Dichloropropene	75	6.011	6.011	0.000	87	39490	2.50	2.41	
54 Benzene	78	6.248	6.247	0.001	96	119536	2.50	2.45	
53 1,2-Dichloroethane	62	6.283	6.283	0.000	97	50144	2.50	2.42	
52 Isobutyl alcohol	41	6.307	6.307	0.000	92	42633	62.5	57.4	
56 n-Heptane	100	6.626	6.614	0.012	95	6004	2.50	2.42	
58 Trichloroethene	130	6.993	6.993	0.000	96	30460	2.50	2.47	
60 Methylcyclohexane	83	7.194	7.194	0.000	97	45965	2.50	2.45	
61 1,2-Dichloropropane	63	7.230	7.230	0.000	93	31474	2.50	2.40	
63 Dibromomethane	93	7.360	7.348	0.012	93	17762	2.50	2.42	
64 1,4-Dioxane	88	7.431	7.431	0.000	95	5679	50.0	48.6	
65 Dichlorobromomethane	83	7.537	7.537	0.000	97	36351	2.50	2.33	
67 2-Chloroethyl vinyl ether	63	7.892	7.892	0.000	91	43820	5.00	4.68	
68 cis-1,3-Dichloropropene	75	8.023	8.022	0.001	88	42871	2.50	2.32	
69 4-Methyl-2-pentanone (MIBK)	43	8.212	8.212	0.000	99	89060	5.00	4.28	
70 Toluene	91	8.354	8.354	0.000	97	124461	2.50	2.42	
71 trans-1,3-Dichloropropene	75	8.591	8.590	0.001	97	39587	2.50	2.31	
72 Ethyl methacrylate	69	8.721	8.721	0.000	93	32348	2.50	2.11	
73 1,1,2-Trichloroethane	97	8.768	8.768	0.000	94	25247	2.50	2.40	
75 Tetrachloroethene	164	8.910	8.910	0.000	97	21571	2.50	2.47	
74 1,3-Dichloropropane	76	8.934	8.934	0.000	97	45221	2.50	2.43	
76 2-Hexanone	43	9.052	9.052	0.000	97	65652	5.00	4.64	
78 Chlorodibromomethane	129	9.159	9.158	0.001	90	25075	2.50	2.32	
80 Ethylene Dibromide	107	9.265	9.265	0.000	100	24808	2.50	2.30	
82 Chlorobenzene	112	9.762	9.762	0.000	92	77452	2.50	2.46	
83 1,1,1,2-Tetrachloroethane	131	9.845	9.857	-0.011	92	25762	2.50	2.36	
84 Ethylbenzene	106	9.880	9.880	0.000	99	41894	2.50	2.38	
85 m-Xylene & p-Xylene	106	9.999	9.999	0.001	97	51085	2.50	2.43	
86 o-Xylene	106	10.389	10.389	0.000	98	52395	2.50	2.48	
87 Styrene	104	10.401	10.401	0.000	96	73559	2.50	2.32	
88 Bromoform	173	10.578	10.578	0.000	94	14484	2.50	2.21	
89 Isopropylbenzene	105	10.768	10.768	0.000	97	126775	2.50	2.42	
93 Bromobenzene	156	11.052	11.052	0.000	95	30670	2.50	2.45	
92 1,1,2,2-Tetrachloroethane	83	11.064	11.063	0.001	98	35105	2.50	2.33	
95 1,2,3-Trichloropropane	110	11.099	11.099	0.000	91	11467	2.50	2.29	
94 trans-1,4-Dichloro-2-butene	53	11.123	11.123	0.000	76	14200	2.50	2.36	
96 N-Propylbenzene	120	11.170	11.170	0.000	99	35474	2.50	2.46	
97 2-Chlorotoluene	126	11.253	11.253	0.000	96	30377	2.50	2.47	
99 1,3,5-Trimethylbenzene	105	11.348	11.347	0.001	91	104042	2.50	2.40	
100 4-Chlorotoluene	126	11.359	11.359	0.000	99	30321	2.50	2.42	
102 tert-Butylbenzene	119	11.667	11.667	0.000	94	86727	2.50	2.37	
104 1,2,4-Trimethylbenzene	105	11.714	11.714	0.000	97	106517	2.50	2.36	
105 sec-Butylbenzene	105	11.892	11.892	0.000	95	120513	2.50	2.37	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,3-Dichlorobenzene	146	11.987	11.986	0.001	97	55586	2.50	2.41	
107 4-Isopropyltoluene	119	12.034	12.034	0.000	97	102289	2.50	2.37	
108 1,4-Dichlorobenzene	146	12.081	12.081	0.000	95	56926	2.50	2.42	
111 n-Butylbenzene	91	12.448	12.448	0.000	97	87755	2.50	2.35	
112 1,2-Dichlorobenzene	146	12.448	12.448	0.000	79	55038	2.50	2.45	
113 1,2-Dibromo-3-Chloropropane	157	13.217	13.217	0.000	75	7363	2.50	2.33	
115 1,2,4-Trichlorobenzene	180	14.046	14.045	0.001	94	31945	2.50	2.40	
116 Hexachlorobutadiene	225	14.235	14.235	0.000	94	10546	2.50	2.38	
117 Naphthalene	128	14.282	14.282	0.000	97	112039	2.50	2.39	
118 1,2,3-Trichlorobenzene	180	14.531	14.531	0.001	95	29635	2.50	2.40	
S 134 Trihalomethanes, Total	1				0		10.0	9.22	
S 158 Total BTEX	1				0		12.5	12.2	
S 131 1,2-Dichloroethene, Total	96				0			4.70	
S 132 1,3-Dichloropropene, Total	75				0			4.63	
S 133 Xylenes, Total	106				0		5.00	4.90	

QC Flag Legend

Processing Flags

Reagents:

VMAROLISTDW_00495	Amount Added:	2.00	Units: uL	
VMRGAS_00487	Amount Added:	2.00	Units: uL	
VMRPRIMW_00542	Amount Added:	2.00	Units: uL	
vm125UX21_SS_00007	Amount Added:	1.00	Units: uL	Run Reagent
vm40ml_vials_00024	Amount Added:	0.00	Units:	Run Reagent
vm125UX21_IS_00050	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00237	Amount Added:	0.00	Units:	Run Reagent

Report Date: 05-Aug-2023 12:38:35 Chrom Revision: 2.3 03-Aug-2023 16:11:04

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\236430.D

Injection Date: 04-Aug-2023 16:39:30 Instrument ID: A3UX23 Operator ID:

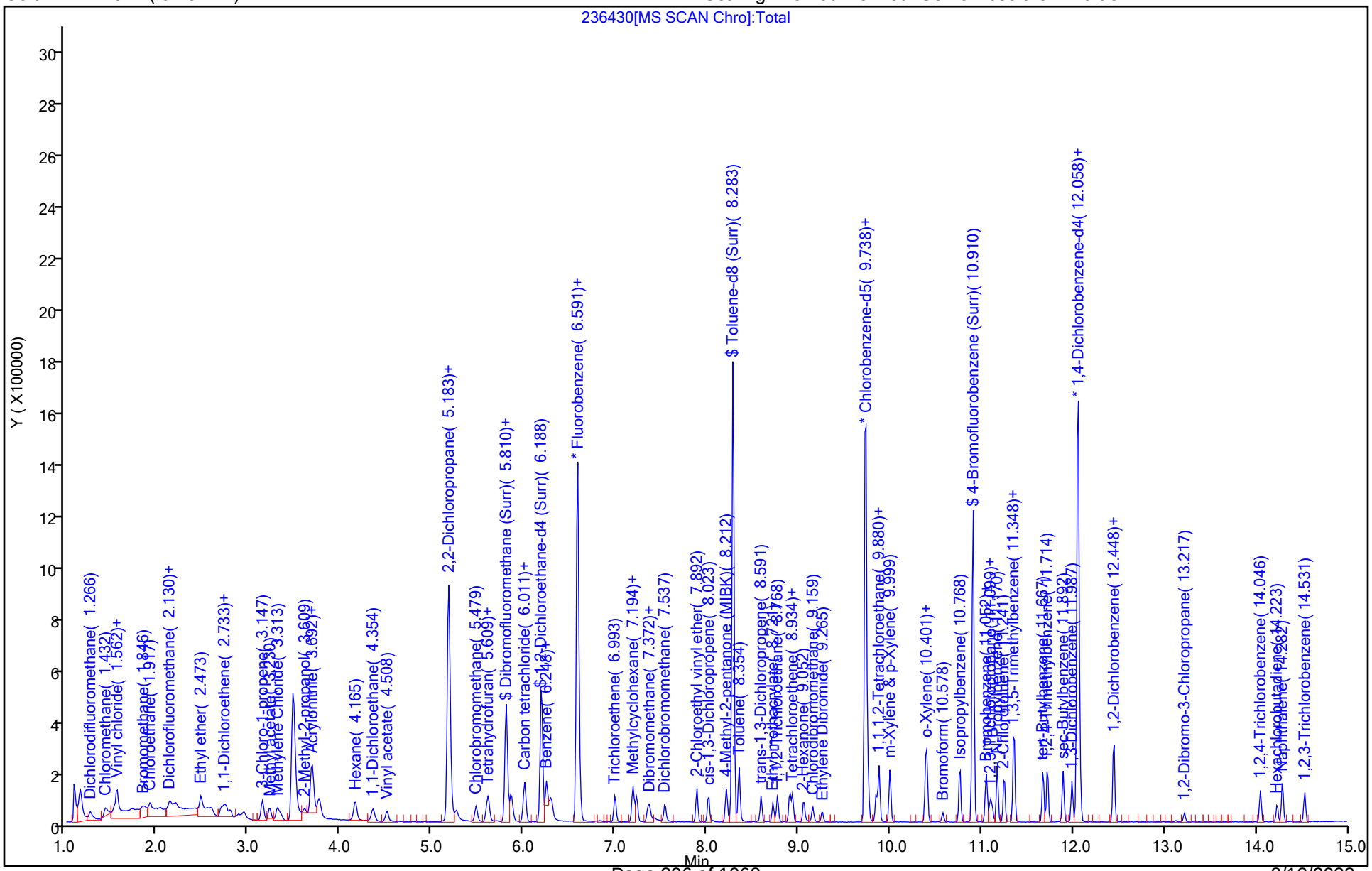
Lims ID: ic Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 4

Method: 8260_23 Limit Group: MSV 8260C ICAL

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



8/12/2023
10:47 AM

Eurofins Cleveland
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\236431.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 04-Aug-2023 17:04:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0132136-006
Operator ID: Instrument ID: A3UX23
Sublist: chrom-8260_23*sub1

Method: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\8260_23.m
Limit Group: MSV 8260C ICAL
Last Update: 05-Aug-2023 12:38:38 Calib Date: 04-Aug-2023 19:09:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\236436.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1647

First Level Reviewer: SE1B Date: 05-Aug-2023 10:59:24

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.591	6.591	0.000	98	1119634	25.0	25.0	
* 2 Chlorobenzene-d5	117	9.738	9.738	0.000	89	818981	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	12.057	12.057	0.000	98	394335	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.810	5.810	0.000	93	241892	25.0	24.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.188	6.188	0.000	97	350475	25.0	24.6	
$ 6 Toluene-d8 (Surr)	98	8.283	8.283	0.000	95	977535	25.0	24.5	
$ 7 4-Bromofluorobenzene (Surr)	95	10.910	10.910	0.000	85	393089	25.0	24.6	
9 Dichlorodifluoromethane	85	1.266	1.266	0.000	99	98187	6.25	6.73	
10 Chloromethane	50	1.431	1.431	0.000	100	130769	6.25	6.22	
11 Vinyl chloride	62	1.526	1.526	0.000	98	92300	6.25	6.32	
12 Butadiene	54	1.550	1.550	0.000	98	123394	6.25	6.33	
13 Bromomethane	94	1.834	1.834	0.000	92	48537	6.25	6.06	
14 Chloroethane	64	1.917	1.917	0.000	97	56010	6.25	6.26	
15 Dichlorofluoromethane	67	2.130	2.130	0.000	99	102942	6.25	6.15	
16 Trichlorofluoromethane	101	2.177	2.177	0.000	99	96155	6.25	6.60	
17 Ethyl ether	59	2.473	2.473	0.000	97	70884	6.25	5.80	
18 Acrolein	56	2.603	2.603	0.000	99	25294	31.3	32.9	
19 1,1-Dichloroethene	96	2.709	2.698	0.011	94	54258	6.25	5.65	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.745	2.745	0.000	94	44134	6.25	5.56	
21 Acetone	58	2.792	2.792	0.000	97	20905	12.5	10.5	
23 Iodomethane	142	2.875	2.875	0.000	99	90107	6.25	5.88	
24 Carbon disulfide	76	2.934	2.934	0.000	99	167239	6.25	5.63	
26 3-Chloro-1-propene	41	3.147	3.147	0.000	87	151718	6.25	5.46	
27 Methyl acetate	43	3.230	3.218	0.012	100	196399	12.5	11.1	
28 Methylene Chloride	84	3.313	3.313	0.000	95	72158	6.25	5.83	
29 2-Methyl-2-propanol	59	3.609	3.609	0.000	94	72623	62.5	45.7	
30 Acrylonitrile	53	3.680	3.680	0.000	98	429650	62.5	56.7	
32 trans-1,2-Dichloroethene	96	3.703	3.703	0.000	93	67016	6.25	5.64	
31 Methyl tert-butyl ether	73	3.763	3.763	0.000	96	203456	6.25	5.70	
33 Hexane	57	4.165	4.165	0.000	96	100538	6.25	5.42	
34 1,1-Dichloroethane	63	4.354	4.354	0.000	98	136000	6.25	5.79	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Vinyl acetate	43	4.508	4.508	0.000	97	175503	6.25	5.61	
41 2,2-Dichloropropane	97	5.171	5.171	0.000	77	17225	6.25	5.75	
39 cis-1,2-Dichloroethene	96	5.183	5.183	0.000	59	74746	6.25	5.67	
40 2-Butanone (MEK)	72	5.265	5.265	0.000	98	22627	12.5	11.0	
45 Chlorobromomethane	128	5.478	5.478	0.000	90	35012	6.25	5.77	
46 Tetrahydrofuran	42	5.597	5.585	0.012	91	75093	12.5	10.6	
47 Chloroform	83	5.620	5.608	0.012	99	121116	6.25	5.72	
48 1,1,1-Trichloroethane	97	5.810	5.810	0.000	67	105738	6.25	5.82	
49 Cyclohexane	56	5.857	5.857	0.000	96	133015	6.25	5.58	
51 Carbon tetrachloride	117	6.011	5.999	0.012	95	89373	6.25	5.65	
50 1,1-Dichloropropene	75	6.011	6.011	0.000	89	92857	6.25	5.80	
54 Benzene	78	6.247	6.247	0.000	97	276170	6.25	5.79	
53 1,2-Dichloroethane	62	6.283	6.283	0.000	96	117576	6.25	5.81	
52 Isobutyl alcohol	41	6.307	6.307	0.000	93	99352	156.3	137.0	
56 n-Heptane	100	6.614	6.614	0.000	97	13164	6.25	5.44	
58 Trichloroethene	130	6.993	6.993	0.000	97	70255	6.25	5.83	
60 Methylcyclohexane	83	7.194	7.194	0.000	97	102518	6.25	5.59	
61 1,2-Dichloropropane	63	7.230	7.230	0.000	95	74668	6.25	5.82	
63 Dibromomethane	93	7.348	7.348	0.000	95	41958	6.25	5.85	
64 1,4-Dioxane	88	7.431	7.431	0.000	94	12464	125.0	109.1	
65 Dichlorobromomethane	83	7.537	7.537	0.000	97	86248	6.25	5.66	
67 2-Chloroethyl vinyl ether	63	7.892	7.892	0.000	91	105323	12.5	11.5	
68 cis-1,3-Dichloropropene	75	8.022	8.022	0.000	88	105646	6.25	5.84	
69 4-Methyl-2-pentanone (MIBK)	43	8.212	8.212	0.000	99	224391	12.5	11.0	
70 Toluene	91	8.354	8.354	0.000	97	295709	6.25	5.85	
71 trans-1,3-Dichloropropene	75	8.590	8.590	0.000	97	96349	6.25	5.72	
72 Ethyl methacrylate	69	8.721	8.721	0.000	94	82779	6.25	5.49	
73 1,1,2-Trichloroethane	97	8.768	8.768	0.000	95	60111	6.25	5.81	
75 Tetrachloroethene	164	8.910	8.910	0.000	97	50590	6.25	5.88	
74 1,3-Dichloropropane	76	8.934	8.934	0.000	97	107722	6.25	5.88	
76 2-Hexanone	43	9.052	9.052	0.000	97	159688	12.5	11.5	
78 Chlorodibromomethane	129	9.158	9.158	0.000	91	59428	6.25	5.58	
80 Ethylene Dibromide	107	9.265	9.265	0.000	99	61154	6.25	5.77	
82 Chlorobenzene	112	9.762	9.762	0.000	92	180633	6.25	5.82	
83 1,1,1,2-Tetrachloroethane	131	9.857	9.857	0.000	94	61337	6.25	5.71	
84 Ethylbenzene	106	9.880	9.880	0.000	98	102307	6.25	5.91	
85 m-Xylene & p-Xylene	106	9.998	9.999	0.000	97	123466	6.25	5.96	
86 o-Xylene	106	10.389	10.389	0.000	98	121942	6.25	5.85	
87 Styrene	104	10.401	10.401	0.000	95	178593	6.25	5.72	
88 Bromoform	173	10.578	10.578	0.000	95	35900	6.25	5.58	
89 Isopropylbenzene	105	10.768	10.768	0.000	97	302040	6.25	5.85	
93 Bromobenzene	156	11.052	11.052	0.000	97	70482	6.25	5.77	
92 1,1,2,2-Tetrachloroethane	83	11.063	11.063	0.000	98	84872	6.25	5.77	
95 1,2,3-Trichloropropane	110	11.099	11.099	0.000	91	28499	6.25	5.82	
94 trans-1,4-Dichloro-2-butene	53	11.123	11.123	0.000	76	32765	6.25	5.58	
96 N-Propylbenzene	120	11.170	11.170	0.000	99	80858	6.25	5.74	
97 2-Chlorotoluene	126	11.253	11.253	0.000	96	72252	6.25	6.02	
99 1,3,5-Trimethylbenzene	105	11.347	11.347	0.000	93	246121	6.25	5.82	
100 4-Chlorotoluene	126	11.359	11.359	0.000	99	70914	6.25	5.79	
102 tert-Butylbenzene	119	11.667	11.667	0.000	94	208989	6.25	5.85	
104 1,2,4-Trimethylbenzene	105	11.714	11.714	0.000	98	259062	6.25	5.89	
105 sec-Butylbenzene	105	11.892	11.892	0.000	95	288854	6.25	5.82	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,3-Dichlorobenzene	146	11.986	11.986	0.000	97	133814	6.25	5.95	
107 4-Isopropyltoluene	119	12.034	12.034	0.000	97	244428	6.25	5.80	
108 1,4-Dichlorobenzene	146	12.081	12.081	0.000	94	134007	6.25	5.84	
111 n-Butylbenzene	91	12.448	12.448	0.000	98	213031	6.25	5.84	
112 1,2-Dichlorobenzene	146	12.448	12.448	0.000	78	130230	6.25	5.94	
113 1,2-Dibromo-3-Chloropropane	157	13.217	13.217	0.000	73	16572	6.25	5.36	
115 1,2,4-Trichlorobenzene	180	14.045	14.045	0.000	95	75426	6.25	5.81	
116 Hexachlorobutadiene	225	14.235	14.235	0.000	97	25674	6.25	5.94	
117 Naphthalene	128	14.282	14.282	0.000	98	265074	6.25	5.78	
118 1,2,3-Trichlorobenzene	180	14.530	14.531	0.000	95	71092	6.25	5.89	
S 134 Trihalomethanes, Total	1				0		25.0	22.5	
S 158 Total BTEX	1				0		31.3	29.4	
S 131 1,2-Dichloroethene, Total	96				0			11.3	
S 132 1,3-Dichloropropene, Total	75				0			11.6	
S 133 Xylenes, Total	106				0		12.5	11.8	

QC Flag Legend

Processing Flags

Reagents:

VMRPRIMW_00542	Amount Added:	5.00	Units: uL	
VMRGAS_00487	Amount Added:	5.00	Units: uL	
VMAROLISTDW_00495	Amount Added:	5.00	Units: uL	
vm125UX21_SS_00007	Amount Added:	1.00	Units: uL	Run Reagent
vm40ml_vials_00024	Amount Added:	0.00	Units:	Run Reagent
vm125UX21_IS_00050	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00237	Amount Added:	0.00	Units:	Run Reagent

Report Date: 05-Aug-2023 12:38:39 Chrom Revision: 2.3 03-Aug-2023 16:11:04

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\236431.D

Injection Date: 04-Aug-2023 17:04:30 Instrument ID: A3UX23 Operator ID:

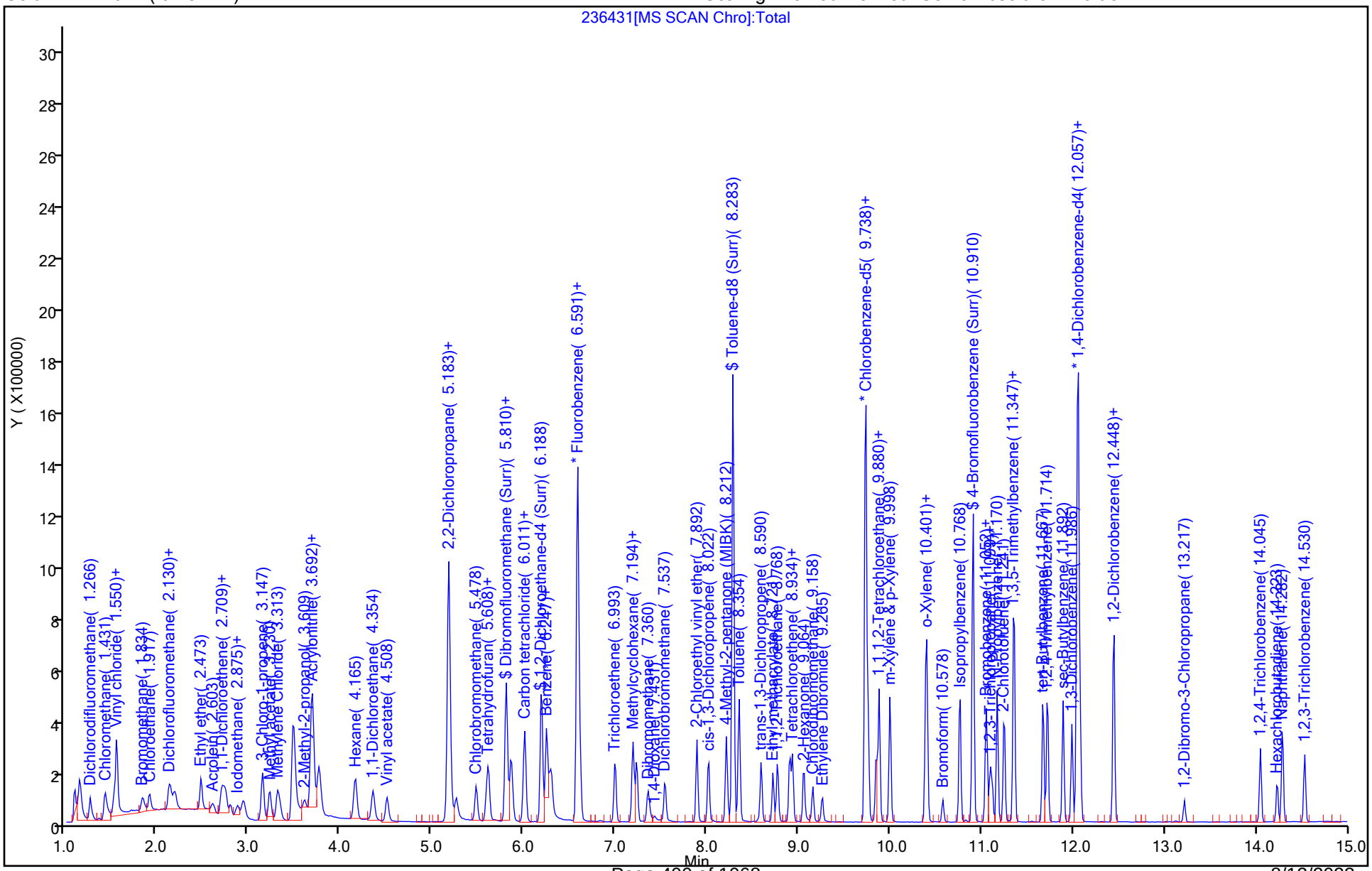
Lims ID: ic Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 5

Method: 8260_23 Limit Group: MSV 8260C ICAL

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Cleveland
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\236432.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 04-Aug-2023 17:29:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0132136-007
Operator ID: Instrument ID: A3UX23
Sublist: chrom-8260_23*sub1

Method: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\8260_23.m
Limit Group: MSV 8260C ICAL
Last Update: 05-Aug-2023 12:38:42 Calib Date: 04-Aug-2023 19:09:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\236436.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1647

First Level Reviewer: SE1B Date: 05-Aug-2023 11:00:07

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.591	6.591	0.000	98	918974	25.0	25.0	
* 2 Chlorobenzene-d5	117	9.738	9.738	0.000	90	672995	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	12.058	12.057	0.001	97	331495	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.810	5.810	0.000	93	207185	25.0	25.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.200	6.188	0.012	97	293756	25.0	25.1	
$ 6 Toluene-d8 (Surr)	98	8.283	8.283	0.000	95	816625	25.0	24.9	
$ 7 4-Bromofluorobenzene (Surr)	95	10.910	10.910	0.000	85	332546	25.0	25.4	
9 Dichlorodifluoromethane	85	1.266	1.266	0.000	99	160117	12.5	13.4	
10 Chloromethane	50	1.432	1.431	0.001	100	217238	12.5	12.6	
11 Vinyl chloride	62	1.526	1.526	0.000	98	156335	12.5	13.0	
12 Butadiene	54	1.562	1.550	0.012	98	207926	12.5	13.0	
13 Bromomethane	94	1.834	1.834	0.000	92	82457	12.5	12.5	
14 Chloroethane	64	1.917	1.917	0.000	97	94348	12.5	12.9	
15 Dichlorofluoromethane	67	2.130	2.130	0.000	99	183407	12.5	13.3	
16 Trichlorofluoromethane	101	2.177	2.177	0.000	99	164316	12.5	13.7	
17 Ethyl ether	59	2.473	2.473	0.000	97	127784	12.5	12.7	
18 Acrolein	56	2.603	2.603	0.000	98	40067	62.5	63.5	
19 1,1-Dichloroethene	96	2.698	2.698	0.000	94	101369	12.5	12.9	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.745	2.745	0.000	94	84736	12.5	13.0	
21 Acetone	58	2.804	2.792	0.012	98	42146	25.0	28.9	
23 Iodomethane	142	2.863	2.875	-0.012	99	165806	12.5	13.2	
24 Carbon disulfide	76	2.934	2.934	0.000	99	312377	12.5	12.8	
26 3-Chloro-1-propene	41	3.147	3.147	0.000	86	278147	12.5	12.2	
27 Methyl acetate	43	3.230	3.218	0.012	100	375035	25.0	25.7	
28 Methylene Chloride	84	3.313	3.313	0.000	95	127488	12.5	13.3	
29 2-Methyl-2-propanol	59	3.609	3.609	0.000	93	184844	125.0	141.6	
30 Acrylonitrile	53	3.680	3.680	0.000	97	829683	125.0	133.4	
32 trans-1,2-Dichloroethene	96	3.703	3.703	0.000	93	120242	12.5	12.3	
31 Methyl tert-butyl ether	73	3.763	3.763	0.000	96	370751	12.5	12.7	
33 Hexane	57	4.165	4.165	0.000	96	193080	12.5	12.7	
34 1,1-Dichloroethane	63	4.354	4.354	0.000	97	246674	12.5	12.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Vinyl acetate	43	4.508	4.508	0.000	97	321759	12.5	12.5	
41 2,2-Dichloropropane	97	5.171	5.171	0.000	86	33360	12.5	13.6	
39 cis-1,2-Dichloroethene	96	5.183	5.183	0.001	82	131579	12.5	12.2	
40 2-Butanone (MEK)	72	5.265	5.265	0.000	98	41058	25.0	24.4	
45 Chlorobromomethane	128	5.478	5.478	0.000	91	61127	12.5	12.3	
46 Tetrahydrofuran	42	5.585	5.585	0.000	92	142802	25.0	24.6	
47 Chloroform	83	5.620	5.608	0.012	99	221382	12.5	12.7	
48 1,1,1-Trichloroethane	97	5.810	5.810	0.000	88	191581	12.5	12.8	
49 Cyclohexane	56	5.869	5.857	0.012	97	256778	12.5	13.1	
51 Carbon tetrachloride	117	6.011	5.999	0.012	96	165517	12.5	12.8	
50 1,1-Dichloropropene	75	6.011	6.011	0.000	88	166026	12.5	12.6	
54 Benzene	78	6.248	6.247	0.001	98	497303	12.5	12.7	
53 1,2-Dichloroethane	62	6.283	6.283	0.000	97	210748	12.5	12.7	
52 Isobutyl alcohol	41	6.307	6.307	0.000	94	204247	312.5	343.1	
56 n-Heptane	100	6.614	6.614	0.000	97	24183	12.5	12.2	
58 Trichloroethene	130	6.993	6.993	0.000	96	122888	12.5	12.4	
60 Methylcyclohexane	83	7.194	7.194	0.000	97	195371	12.5	13.0	
61 1,2-Dichloropropane	63	7.230	7.230	0.000	94	131566	12.5	12.5	
63 Dibromomethane	93	7.360	7.348	0.012	97	72836	12.5	12.4	
64 1,4-Dioxane	88	7.431	7.431	0.000	92	24783	250.0	264.2	
65 Dichlorobromomethane	83	7.537	7.537	0.000	97	154463	12.5	12.3	
67 2-Chloroethyl vinyl ether	63	7.892	7.892	0.000	90	187590	25.0	25.0	
68 cis-1,3-Dichloropropene	75	8.023	8.022	0.001	89	187719	12.5	12.6	
69 4-Methyl-2-pentanone (MIBK)	43	8.212	8.212	0.000	99	443746	25.0	26.6	
70 Toluene	91	8.354	8.354	0.000	97	511904	12.5	12.3	
71 trans-1,3-Dichloropropene	75	8.590	8.590	0.000	96	170894	12.5	12.3	
72 Ethyl methacrylate	69	8.721	8.721	0.000	94	147228	12.5	11.9	
73 1,1,2-Trichloroethane	97	8.768	8.768	0.000	94	107469	12.5	12.6	
75 Tetrachloroethene	164	8.910	8.910	0.000	97	89463	12.5	12.7	
74 1,3-Dichloropropane	76	8.934	8.934	0.000	96	188412	12.5	12.5	
76 2-Hexanone	43	9.052	9.052	0.000	98	288604	25.0	25.2	
78 Chlorodibromomethane	129	9.158	9.158	0.000	91	108254	12.5	12.4	
80 Ethylene Dibromide	107	9.265	9.265	0.000	98	108963	12.5	12.5	
82 Chlorobenzene	112	9.762	9.762	0.000	91	319321	12.5	12.5	
83 1,1,1,2-Tetrachloroethane	131	9.857	9.857	0.001	94	114028	12.5	12.9	
84 Ethylbenzene	106	9.880	9.880	0.000	99	180168	12.5	12.7	
85 m-Xylene & p-Xylene	106	9.999	9.999	0.001	97	217026	12.5	12.7	
86 o-Xylene	106	10.389	10.389	0.000	98	221220	12.5	12.9	
87 Styrene	104	10.401	10.401	0.000	95	322739	12.5	12.6	
88 Bromoform	173	10.578	10.578	0.000	95	67225	12.5	12.7	
89 Isopropylbenzene	105	10.768	10.768	0.000	97	551555	12.5	13.0	
93 Bromobenzene	156	11.052	11.052	0.000	97	125847	12.5	12.3	
92 1,1,2,2-Tetrachloroethane	83	11.064	11.063	0.001	95	157395	12.5	12.7	
95 1,2,3-Trichloropropane	110	11.099	11.099	0.000	91	50258	12.5	12.2	
94 trans-1,4-Dichloro-2-butene	53	11.123	11.123	0.000	77	58189	12.5	11.8	
96 N-Propylbenzene	120	11.170	11.170	0.000	99	148985	12.5	12.6	
97 2-Chlorotoluene	126	11.253	11.253	0.000	97	128825	12.5	12.8	
99 1,3,5-Trimethylbenzene	105	11.348	11.347	0.001	94	459898	12.5	12.9	
100 4-Chlorotoluene	126	11.359	11.359	0.000	98	130438	12.5	12.7	
102 tert-Butylbenzene	119	11.667	11.667	0.000	94	383325	12.5	12.8	
104 1,2,4-Trimethylbenzene	105	11.714	11.714	0.000	98	473907	12.5	12.8	
105 sec-Butylbenzene	105	11.892	11.892	0.000	95	537763	12.5	12.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,3-Dichlorobenzene	146	11.987	11.986	0.001	97	234641	12.5	12.4	
107 4-Isopropyltoluene	119	12.034	12.034	0.000	97	459540	12.5	13.0	
108 1,4-Dichlorobenzene	146	12.081	12.081	0.000	93	237573	12.5	12.3	
111 n-Butylbenzene	91	12.448	12.448	0.000	97	395304	12.5	12.9	
112 1,2-Dichlorobenzene	146	12.448	12.448	0.000	77	235403	12.5	12.8	
113 1,2-Dibromo-3-Chloropropane	157	13.217	13.217	0.000	75	32492	12.5	12.5	
115 1,2,4-Trichlorobenzene	180	14.045	14.045	0.000	93	140975	12.5	12.9	
116 Hexachlorobutadiene	225	14.235	14.235	0.000	97	46877	12.5	12.9	
117 Naphthalene	128	14.282	14.282	0.000	98	509480	12.5	13.2	
118 1,2,3-Trichlorobenzene	180	14.531	14.531	0.001	95	134442	12.5	13.3	
S 134 Trihalomethanes, Total	1				0		50.0	50.1	
S 158 Total BTEX	1				0		62.5	63.4	
S 131 1,2-Dichloroethene, Total	96				0			24.5	
S 132 1,3-Dichloropropene, Total	75				0			25.0	
S 133 Xylenes, Total	106				0		25.0	25.7	

QC Flag Legend

Processing Flags

Reagents:

VMAROLISTDW_00495	Amount Added:	10.00	Units: uL	
VMRGAS_00487	Amount Added:	10.00	Units: uL	
VMRPRIMW_00542	Amount Added:	10.00	Units: uL	
vm125UX21_SS_00007	Amount Added:	1.00	Units: uL	Run Reagent
vm40ml_vials_00024	Amount Added:	0.00	Units:	Run Reagent
vm125UX21_IS_00050	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00237	Amount Added:	0.00	Units:	Run Reagent

Report Date: 05-Aug-2023 12:38:42 Chrom Revision: 2.3 03-Aug-2023 16:11:04

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\236432.D

Injection Date: 04-Aug-2023 17:29:30 Instrument ID: A3UX23 Operator ID:

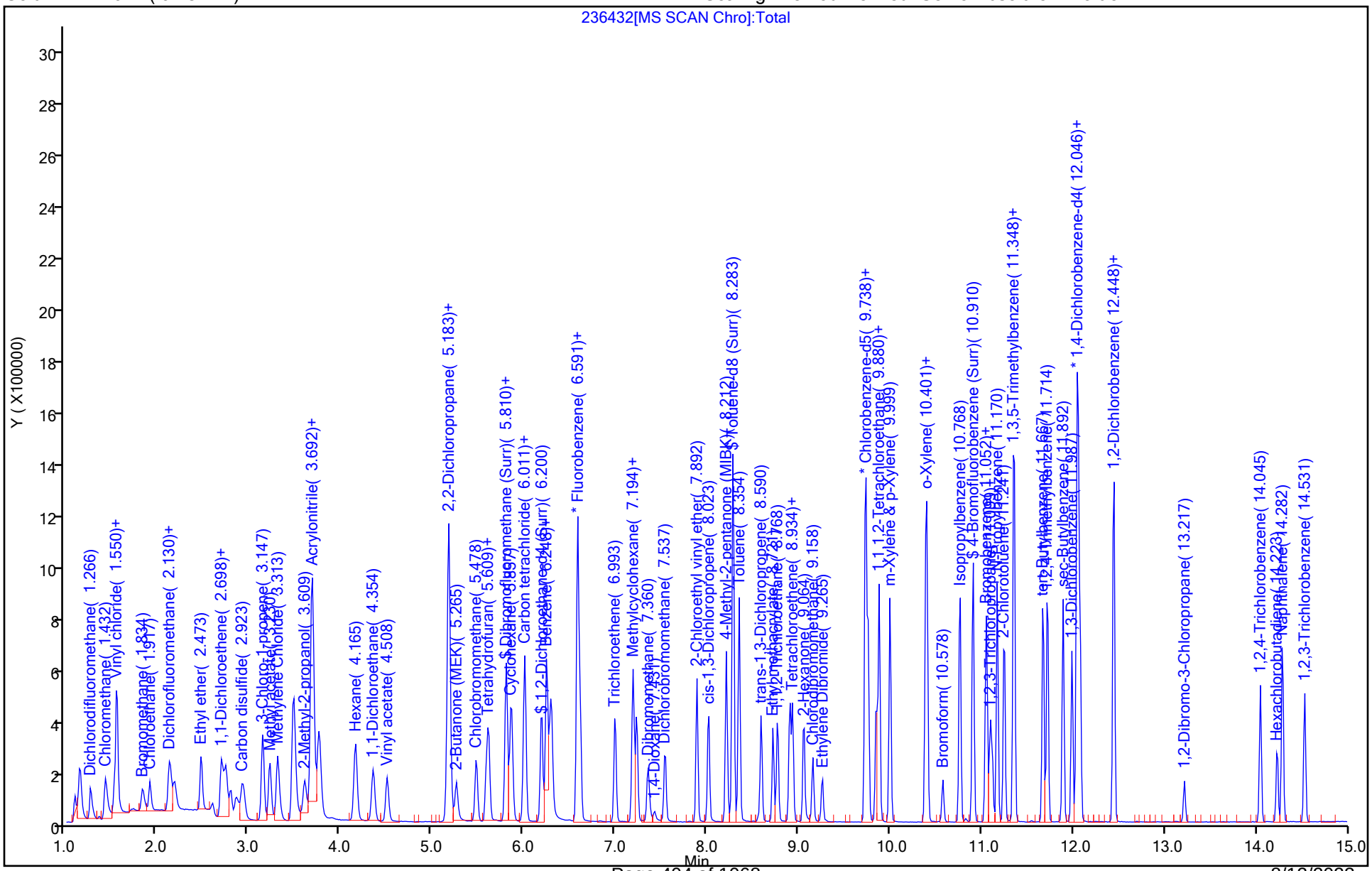
Lims ID: ic Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 6

Method: 8260_23 Limit Group: MSV 8260C ICAL

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Cleveland
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\236433.D
Lims ID: icis
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 04-Aug-2023 17:54:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0132136-008
Operator ID: Instrument ID: A3UX23
Sublist: chrom-8260_23*sub1

Method: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\8260_23.m
Limit Group: MSV 8260C ICAL
Last Update: 05-Aug-2023 12:38:45 Calib Date: 04-Aug-2023 19:09:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\236436.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1647

First Level Reviewer: SE1B Date: 05-Aug-2023 11:00:46

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.591	6.591	0.000	98	1078248	25.0	25.0	
* 2 Chlorobenzene-d5	117	9.738	9.738	0.000	91	790347	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	12.057	12.057	0.000	97	372950	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.810	5.810	0.000	72	237940	25.0	25.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.188	6.188	0.000	96	344532	25.0	25.1	
$ 6 Toluene-d8 (Surr)	98	8.283	8.283	0.000	95	951433	25.0	24.7	
$ 7 4-Bromofluorobenzene (Surr)	95	10.910	10.910	0.000	85	381499	25.0	24.8	
9 Dichlorodifluoromethane	85	1.266	1.266	0.000	99	338962	25.0	24.1	
10 Chloromethane	50	1.431	1.431	0.000	100	496540	25.0	24.5	
11 Vinyl chloride	62	1.526	1.526	0.000	98	347854	25.0	24.7	
12 Butadiene	54	1.550	1.550	0.000	98	449687	25.0	23.9	
13 Bromomethane	94	1.834	1.834	0.000	91	174102	25.0	22.6	
14 Chloroethane	64	1.917	1.917	0.000	97	204227	25.0	23.7	
15 Dichlorofluoromethane	67	2.130	2.130	0.000	99	395832	25.0	24.5	
16 Trichlorofluoromethane	101	2.177	2.177	0.000	100	357914	25.0	25.5	
17 Ethyl ether	59	2.473	2.473	0.000	98	294132	25.0	25.0	
18 Acrolein	56	2.603	2.603	0.000	98	97005	125.0	131.1	
19 1,1-Dichloroethene	96	2.698	2.698	0.000	94	217973	25.0	23.6	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.745	2.745	0.000	93	182673	25.0	23.9	
21 Acetone	58	2.792	2.792	0.000	98	82042	50.0	49.3	
23 Iodomethane	142	2.875	2.875	0.000	99	369227	25.0	25.0	
24 Carbon disulfide	76	2.934	2.934	0.000	99	694283	25.0	24.3	
26 3-Chloro-1-propene	41	3.147	3.147	0.000	87	645081	25.0	24.1	
27 Methyl acetate	43	3.218	3.218	0.000	100	858746	50.0	50.2	
28 Methylene Chloride	84	3.313	3.313	0.000	95	281315	25.0	25.6	
29 2-Methyl-2-propanol	59	3.609	3.609	0.000	93	406437	250.0	265.3	
30 Acrylonitrile	53	3.680	3.680	0.000	97	1864266	250.0	255.5	
32 trans-1,2-Dichloroethene	96	3.703	3.703	0.000	92	269264	25.0	23.5	
31 Methyl tert-butyl ether	73	3.763	3.763	0.000	97	855102	25.0	24.9	
33 Hexane	57	4.165	4.165	0.000	96	431938	25.0	24.2	
34 1,1-Dichloroethane	63	4.354	4.354	0.000	98	561866	25.0	24.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Vinyl acetate	43	4.508	4.508	0.000	97	773199	25.0	25.7	
41 2,2-Dichloropropane	97	5.171	5.171	0.000	89	70720	25.0	24.5	
39 cis-1,2-Dichloroethene	96	5.183	5.183	0.000	81	304851	25.0	24.0	
40 2-Butanone (MEK)	72	5.265	5.265	0.000	98	90540	50.0	45.9	
45 Chlorobromomethane	128	5.478	5.478	0.000	90	143538	25.0	24.6	
46 Tetrahydrofuran	42	5.585	5.585	0.000	93	337231	50.0	49.5	
47 Chloroform	83	5.608	5.608	0.000	99	500899	25.0	24.6	
48 1,1,1-Trichloroethane	97	5.810	5.810	0.000	97	440201	25.0	25.2	
49 Cyclohexane	56	5.857	5.857	0.000	96	572273	25.0	24.9	
51 Carbon tetrachloride	117	5.999	5.999	0.000	96	375996	25.0	24.7	
50 1,1-Dichloropropene	75	6.011	6.011	0.000	90	385433	25.0	25.0	
54 Benzene	78	6.247	6.247	0.000	97	1130248	25.0	24.6	
53 1,2-Dichloroethane	62	6.283	6.283	0.000	96	482558	25.0	24.7	
52 Isobutyl alcohol	41	6.307	6.307	0.000	94	451528	625.0	646.4	
56 n-Heptane	100	6.614	6.614	0.000	98	57231	25.0	24.5	
58 Trichloroethene	130	6.993	6.993	0.000	97	285217	25.0	24.6	
60 Methylcyclohexane	83	7.194	7.194	0.000	97	435068	25.0	24.6	
61 1,2-Dichloropropane	63	7.230	7.230	0.000	95	310443	25.0	25.1	
63 Dibromomethane	93	7.348	7.348	0.000	95	173763	25.0	25.2	
64 1,4-Dioxane	88	7.431	7.431	0.000	96	55611	500.0	505.3	
65 Dichlorobromomethane	83	7.537	7.537	0.000	98	364812	25.0	24.8	
67 2-Chloroethyl vinyl ether	63	7.892	7.892	0.000	90	450957	50.0	51.2	
68 cis-1,3-Dichloropropene	75	8.022	8.022	0.000	89	449699	25.0	25.8	
69 4-Methyl-2-pentanone (MIBK)	43	8.212	8.212	0.000	99	1061578	50.0	54.2	
70 Toluene	91	8.354	8.354	0.000	97	1200707	25.0	24.6	
71 trans-1,3-Dichloropropene	75	8.590	8.590	0.000	97	420850	25.0	25.9	
72 Ethyl methacrylate	69	8.721	8.721	0.000	95	381090	25.0	26.2	
73 1,1,2-Trichloroethane	97	8.768	8.768	0.000	95	248227	25.0	24.9	
75 Tetrachloroethene	164	8.910	8.910	0.000	97	204928	25.0	24.7	
74 1,3-Dichloropropane	76	8.934	8.934	0.000	96	438868	25.0	24.8	
76 2-Hexanone	43	9.052	9.052	0.000	98	709793	50.0	52.8	
78 Chlorodibromomethane	129	9.158	9.158	0.000	90	262393	25.0	25.5	
80 Ethylene Dibromide	107	9.265	9.265	0.000	98	257753	25.0	25.2	
82 Chlorobenzene	112	9.762	9.762	0.000	94	733703	25.0	24.5	
83 1,1,1,2-Tetrachloroethane	131	9.857	9.857	0.000	94	262437	25.0	25.3	
84 Ethylbenzene	106	9.880	9.880	0.000	98	413177	25.0	24.7	
85 m-Xylene & p-Xylene	106	9.999	9.999	0.000	97	500067	25.0	25.0	
86 o-Xylene	106	10.389	10.389	0.000	96	498151	25.0	24.8	
87 Styrene	104	10.401	10.401	0.000	93	779497	25.0	25.9	
88 Bromoform	173	10.578	10.578	0.000	95	162750	25.0	26.2	
89 Isopropylbenzene	105	10.768	10.768	0.000	97	1243777	25.0	25.0	
93 Bromobenzene	156	11.052	11.052	0.000	97	289672	25.0	25.1	
92 1,1,2,2-Tetrachloroethane	83	11.063	11.063	0.000	95	352131	25.0	25.3	
95 1,2,3-Trichloropropane	110	11.099	11.099	0.000	90	115354	25.0	24.9	
94 trans-1,4-Dichloro-2-butene	53	11.123	11.123	0.000	78	143562	25.0	25.8	
96 N-Propylbenzene	120	11.170	11.170	0.000	99	335059	25.0	25.1	
97 2-Chlorotoluene	126	11.253	11.253	0.000	96	286828	25.0	25.3	
99 1,3,5-Trimethylbenzene	105	11.347	11.347	0.000	94	1029999	25.0	25.7	
100 4-Chlorotoluene	126	11.359	11.359	0.000	99	292174	25.0	25.2	
102 tert-Butylbenzene	119	11.667	11.667	0.000	94	857719	25.0	25.4	
104 1,2,4-Trimethylbenzene	105	11.714	11.714	0.000	98	1066121	25.0	25.6	
105 sec-Butylbenzene	105	11.892	11.892	0.000	95	1200925	25.0	25.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,3-Dichlorobenzene	146	11.986	11.986	0.000	96	528888	25.0	24.8	
107 4-Isopropyltoluene	119	12.034	12.034	0.000	97	1018277	25.0	25.5	
108 1,4-Dichlorobenzene	146	12.081	12.081	0.000	93	542082	25.0	25.0	
111 n-Butylbenzene	91	12.448	12.448	0.000	97	879267	25.0	25.5	
112 1,2-Dichlorobenzene	146	12.448	12.448	0.000	77	519800	25.0	25.1	
113 1,2-Dibromo-3-Chloropropane	157	13.217	13.217	0.000	76	73941	25.0	25.3	
115 1,2,4-Trichlorobenzene	180	14.045	14.045	0.000	94	306772	25.0	25.0	
116 Hexachlorobutadiene	225	14.235	14.235	0.000	97	102611	25.0	25.1	
117 Naphthalene	128	14.282	14.282	0.000	98	1103890	25.0	25.5	
118 1,2,3-Trichlorobenzene	180	14.531	14.531	0.000	95	283230	25.0	24.8	
S 134 Trihalomethanes, Total	1				0		100.0	101.1	
S 158 Total BTEX	1				0		125.0	123.8	
S 133 Xylenes, Total	106				0		50.0	49.8	

QC Flag Legend

Processing Flags

Reagents:

VMRPRIMW_00542	Amount Added: 20.00	Units: uL	
VMRGAS_00487	Amount Added: 20.00	Units: uL	
VMAROLISTDW_00495	Amount Added: 20.00	Units: uL	
vm125UX21_SS_00007	Amount Added: 1.00	Units: uL	Run Reagent
vm40ml_vials_00024	Amount Added: 0.00	Units:	Run Reagent
vm125UX21_IS_00050	Amount Added: 1.00	Units: uL	Run Reagent
vmDist_H2o_00237	Amount Added: 0.00	Units:	Run Reagent

Report Date: 05-Aug-2023 12:38:46 Chrom Revision: 2.3 03-Aug-2023 16:11:04

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\236433.D

Injection Date: 04-Aug-2023 17:54:30 Instrument ID: A3UX23 Operator ID:

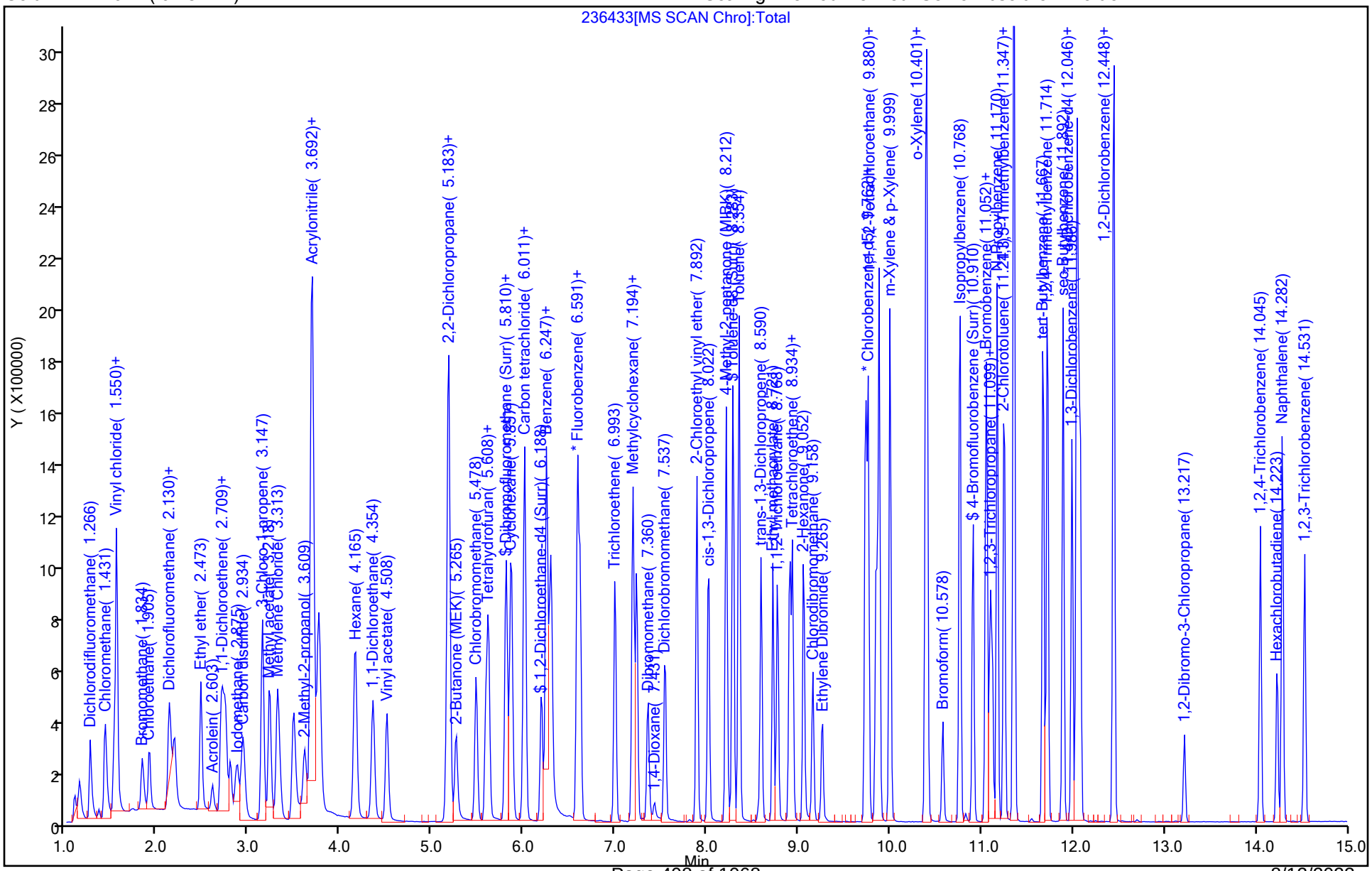
Lims ID: icis Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 7

Method: 8260_23 Limit Group: MSV 8260C ICAL

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Cleveland
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\236434.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 04-Aug-2023 18:19:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0132136-009
Operator ID: Instrument ID: A3UX23
Sublist: chrom-8260_23*sub1

Method: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\8260_23.m
Limit Group: MSV 8260C ICAL
Last Update: 05-Aug-2023 12:38:49 Calib Date: 04-Aug-2023 19:09:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\236436.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1647

First Level Reviewer: SE1B Date: 05-Aug-2023 11:03:56

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.591	6.591	0.000	98	1104884	25.0	25.0	
* 2 Chlorobenzene-d5	117	9.738	9.738	0.000	88	809303	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	12.057	12.057	0.000	97	375979	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.810	5.810	0.000	60	244253	25.0	25.2	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.188	6.188	0.000	97	356027	25.0	25.3	
$ 6 Toluene-d8 (Surr)	98	8.283	8.283	0.000	96	995340	25.0	25.2	
$ 7 4-Bromofluorobenzene (Surr)	95	10.910	10.910	0.000	85	399569	25.0	25.3	
9 Dichlorodifluoromethane	85	1.266	1.266	0.000	99	516481	37.5	35.9	
10 Chloromethane	50	1.431	1.431	0.000	100	801722	37.5	38.6	
11 Vinyl chloride	62	1.526	1.526	0.000	99	547823	37.5	38.0	
12 Butadiene	54	1.550	1.550	0.000	98	694582	37.5	36.1	
13 Bromomethane	94	1.834	1.834	0.000	91	254750	37.5	32.2	
14 Chloroethane	64	1.905	1.917	-0.012	97	324352	37.5	36.8	
15 Dichlorofluoromethane	67	2.130	2.130	0.000	99	626975	37.5	37.9	
16 Trichlorofluoromethane	101	2.177	2.177	0.000	99	557301	37.5	38.8	
17 Ethyl ether	59	2.473	2.473	0.000	97	453242	37.5	37.6	
18 Acrolein	56	2.591	2.603	-0.012	99	132468	187.5	174.7	
19 1,1-Dichloroethene	96	2.698	2.698	0.000	94	345558	37.5	36.4	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.745	2.745	0.000	94	277425	37.5	35.4	
21 Acetone	58	2.792	2.792	0.000	98	131519	75.0	78.3	
23 Iodomethane	142	2.875	2.875	0.000	100	571076	37.5	37.8	
24 Carbon disulfide	76	2.934	2.934	0.000	99	1071052	37.5	36.6	
26 3-Chloro-1-propene	41	3.147	3.147	0.000	87	982986	37.5	35.8	
27 Methyl acetate	43	3.218	3.218	0.000	100	1347419	75.0	76.9	
28 Methylene Chloride	84	3.313	3.313	0.000	95	426349	37.5	38.1	
29 2-Methyl-2-propanol	59	3.609	3.609	0.000	93	521195	375.0	332.1	
30 Acrylonitrile	53	3.680	3.680	0.000	97	2898351	375.0	387.6	
32 trans-1,2-Dichloroethene	96	3.692	3.703	-0.011	93	418021	37.5	35.7	
31 Methyl tert-butyl ether	73	3.763	3.763	0.000	96	1340533	37.5	38.1	
33 Hexane	57	4.153	4.165	-0.012	96	643001	37.5	35.1	
34 1,1-Dichloroethane	63	4.354	4.354	0.000	97	880461	37.5	38.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Vinyl acetate	43	4.496	4.508	-0.012	97	1192644	37.5	38.7	
41 2,2-Dichloropropane	97	5.171	5.171	0.000	91	104181	37.5	35.2	
39 cis-1,2-Dichloroethene	96	5.182	5.183	0.000	92	469069	37.5	36.1	
40 2-Butanone (MEK)	72	5.253	5.265	-0.012	98	143840	75.0	71.1	
45 Chlorobromomethane	128	5.478	5.478	0.000	90	217786	37.5	36.4	
46 Tetrahydrofuran	42	5.585	5.585	0.000	92	528536	75.0	75.7	
47 Chloroform	83	5.608	5.608	0.000	99	773529	37.5	37.0	
48 1,1,1-Trichloroethane	97	5.810	5.810	0.000	97	674122	37.5	37.6	
49 Cyclohexane	56	5.857	5.857	0.000	96	858869	37.5	36.5	
51 Carbon tetrachloride	117	5.999	5.999	0.000	97	581298	37.5	37.2	
50 1,1-Dichloropropene	75	6.011	6.011	0.000	90	589001	37.5	37.3	
54 Benzene	78	6.247	6.247	0.000	97	1755534	37.5	37.3	
53 1,2-Dichloroethane	62	6.283	6.283	0.000	97	744394	37.5	37.2	
52 Isobutyl alcohol	41	6.295	6.307	-0.012	94	672579	937.5	939.6	
56 n-Heptane	100	6.614	6.614	0.000	98	85473	37.5	35.8	
58 Trichloroethene	130	6.993	6.993	0.000	97	441154	37.5	37.1	
60 Methylcyclohexane	83	7.194	7.194	0.000	97	650172	37.5	35.9	
61 1,2-Dichloropropane	63	7.230	7.230	0.000	94	479366	37.5	37.8	
63 Dibromomethane	93	7.348	7.348	0.000	96	265815	37.5	37.6	
64 1,4-Dioxane	88	7.431	7.431	0.000	95	78869	750.0	699.4	
65 Dichlorobromomethane	83	7.537	7.537	0.000	97	571908	37.5	38.0	
67 2-Chloroethyl vinyl ether	63	7.892	7.892	0.000	90	715729	75.0	79.2	
68 cis-1,3-Dichloropropene	75	8.022	8.022	0.000	88	699900	37.5	39.2	
69 4-Methyl-2-pentanone (MIBK)	43	8.212	8.212	0.000	99	1671979	75.0	83.4	
70 Toluene	91	8.354	8.354	0.000	97	1833540	37.5	36.7	
71 trans-1,3-Dichloropropene	75	8.590	8.590	0.000	97	664005	37.5	39.9	
72 Ethyl methacrylate	69	8.721	8.721	0.000	94	621124	37.5	41.7	
73 1,1,2-Trichloroethane	97	8.768	8.768	0.000	95	388751	37.5	38.0	
75 Tetrachloroethene	164	8.910	8.910	0.000	97	312961	37.5	36.8	
74 1,3-Dichloropropane	76	8.934	8.934	0.000	95	676234	37.5	37.4	
76 2-Hexanone	43	9.052	9.052	0.000	98	1125538	75.0	81.8	
78 Chlorodibromomethane	129	9.158	9.158	0.000	90	416029	37.5	39.5	
80 Ethylene Dibromide	107	9.265	9.265	0.000	99	399344	37.5	38.1	
82 Chlorobenzene	112	9.762	9.762	0.000	91	1134913	37.5	37.0	
83 1,1,1,2-Tetrachloroethane	131	9.856	9.857	0.000	95	404089	37.5	38.1	
84 Ethylbenzene	106	9.880	9.880	0.000	98	642768	37.5	37.6	
85 m-Xylene & p-Xylene	106	9.998	9.999	0.000	97	770154	37.5	37.6	
86 o-Xylene	106	10.389	10.389	0.000	98	763426	37.5	37.1	
87 Styrene	104	10.401	10.401	0.000	95	1213811	37.5	39.3	
88 Bromoform	173	10.578	10.578	0.000	95	263474	37.5	41.4	
89 Isopropylbenzene	105	10.768	10.768	0.000	97	1909932	37.5	37.4	
93 Bromobenzene	156	11.052	11.052	0.000	97	448025	37.5	38.5	
92 1,1,2,2-Tetrachloroethane	83	11.063	11.063	0.000	96	541880	37.5	38.6	
95 1,2,3-Trichloropropane	110	11.099	11.099	0.000	89	178826	37.5	38.3	
94 trans-1,4-Dichloro-2-butene	53	11.123	11.123	0.000	79	225761	37.5	40.3	
96 N-Propylbenzene	120	11.170	11.170	0.000	99	514793	37.5	38.3	
97 2-Chlorotoluene	126	11.253	11.253	0.000	97	444464	37.5	38.8	
99 1,3,5-Trimethylbenzene	105	11.347	11.347	0.000	94	1553729	37.5	38.5	
100 4-Chlorotoluene	126	11.359	11.359	0.000	98	452954	37.5	38.8	
102 tert-Butylbenzene	119	11.667	11.667	0.000	94	1312850	37.5	38.6	
104 1,2,4-Trimethylbenzene	105	11.714	11.714	0.000	98	1611016	37.5	38.4	
105 sec-Butylbenzene	105	11.892	11.892	0.000	95	1817825	37.5	38.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,3-Dichlorobenzene	146	11.986	11.986	0.000	97	810738	37.5	37.8	
107 4-Isopropyltoluene	119	12.034	12.034	0.000	97	1540836	37.5	38.3	
108 1,4-Dichlorobenzene	146	12.081	12.081	0.000	93	827089	37.5	37.8	
111 n-Butylbenzene	91	12.448	12.448	0.000	98	1321634	37.5	38.0	
112 1,2-Dichlorobenzene	146	12.448	12.448	0.000	76	787490	37.5	37.7	
113 1,2-Dibromo-3-Chloropropane	157	13.217	13.217	0.000	76	116018	37.5	39.4	
115 1,2,4-Trichlorobenzene	180	14.045	14.045	0.000	94	454115	37.5	36.7	
116 Hexachlorobutadiene	225	14.235	14.235	0.000	97	153175	37.5	37.2	
117 Naphthalene	128	14.282	14.282	0.000	98	1653792	37.5	37.8	
118 1,2,3-Trichlorobenzene	180	14.530	14.531	0.000	95	417122	37.5	36.2	
S 134 Trihalomethanes, Total	1				0		150.0	155.9	
S 158 Total BTEX	1				0		187.5	186.3	
S 131 1,2-Dichloroethene, Total	96				0			71.7	
S 132 1,3-Dichloropropene, Total	75				0			79.1	
S 133 Xylenes, Total	106				0		75.0	74.7	

QC Flag Legend

Processing Flags

Reagents:

VMAROLISTDW_00495	Amount Added:	30.00	Units: uL	
VMRGAS_00487	Amount Added:	30.00	Units: uL	
VMRPRIMW_00542	Amount Added:	30.00	Units: uL	
vm125UX21_SS_00007	Amount Added:	1.00	Units: uL	Run Reagent
vm40ml_vials_00024	Amount Added:	0.00	Units:	Run Reagent
vm125UX21_IS_00050	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00237	Amount Added:	0.00	Units:	Run Reagent

Report Date: 05-Aug-2023 12:38:49 Chrom Revision: 2.3 03-Aug-2023 16:11:04

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\236434.D

Injection Date: 04-Aug-2023 18:19:30 Instrument ID: A3UX23 Operator ID:

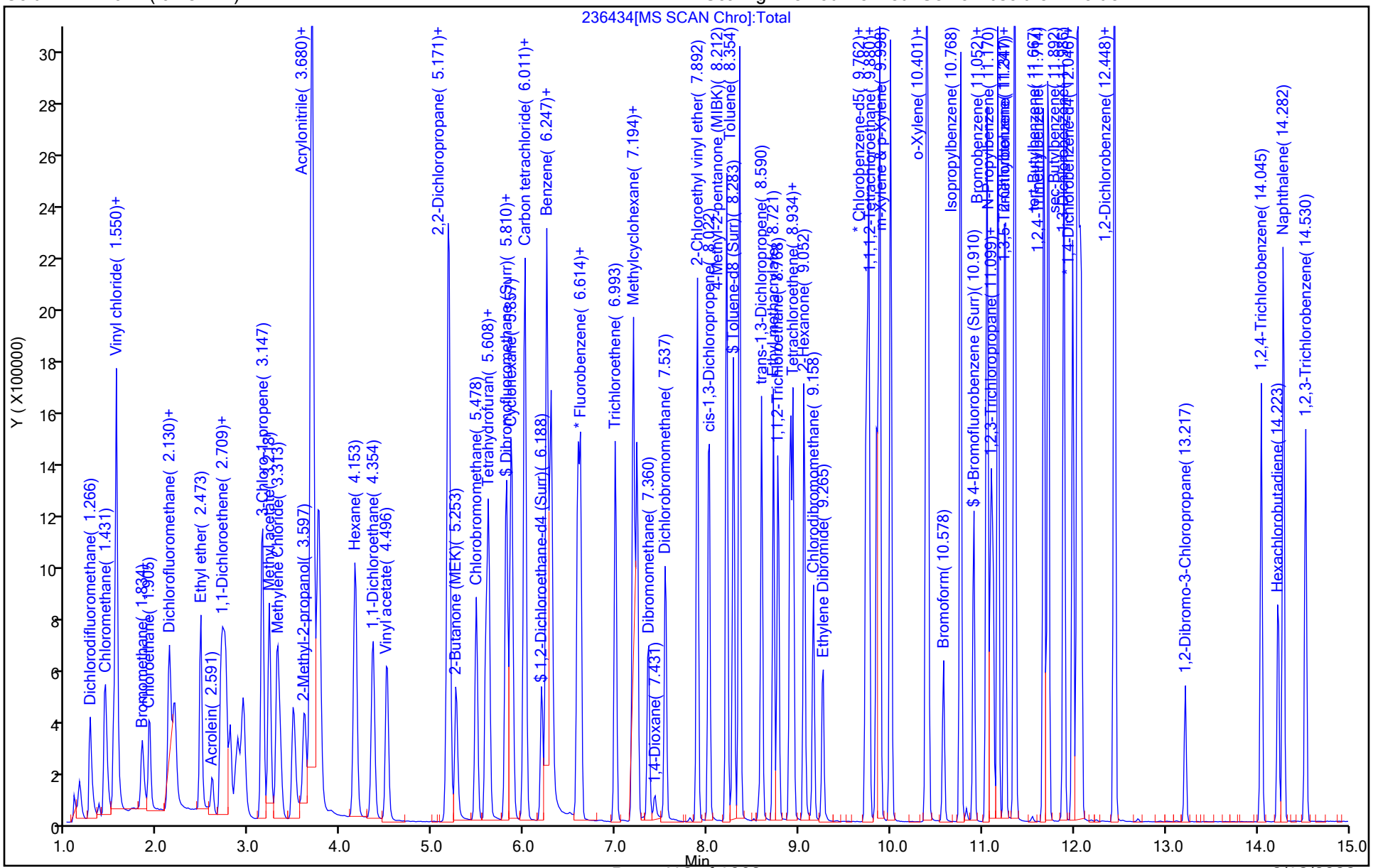
Lims ID: ic Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 8

Method: 8260_23 Limit Group: MSV 8260C ICAL

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Cleveland
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\236435.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 04-Aug-2023 18:44:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0132136-010
Operator ID: Instrument ID: A3UX23
Sublist: chrom-8260_23*sub1

Method: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\8260_23.m
Limit Group: MSV 8260C ICAL
Last Update: 05-Aug-2023 12:38:53 Calib Date: 04-Aug-2023 19:09:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\236436.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1647

First Level Reviewer: SE1B Date: 05-Aug-2023 11:04:36

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.591	6.591	0.000	98	1122507	25.0	25.0	
* 2 Chlorobenzene-d5	117	9.738	9.738	0.000	88	839183	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	12.058	12.057	0.001	97	394141	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.810	5.810	0.000	55	249107	25.0	25.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.188	6.188	0.000	97	359648	25.0	25.2	
$ 6 Toluene-d8 (Surr)	98	8.283	8.283	0.000	95	1022232	25.0	25.0	
$ 7 4-Bromofluorobenzene (Surr)	95	10.910	10.910	0.000	85	417983	25.0	25.6	
9 Dichlorodifluoromethane	85	1.266	1.266	0.000	99	722190	50.0	49.4	
10 Chloromethane	50	1.432	1.431	0.001	100	1055049	50.0	50.0	
11 Vinyl chloride	62	1.526	1.526	0.000	98	743250	50.0	50.7	
12 Butadiene	54	1.550	1.550	0.000	98	946572	50.0	48.4	
13 Bromomethane	94	1.834	1.834	0.000	91	349795	50.0	43.6	
14 Chloroethane	64	1.905	1.917	-0.012	97	415641	50.0	46.4	
15 Dichlorofluoromethane	67	2.130	2.130	0.000	99	825981	50.0	49.2	
16 Trichlorofluoromethane	101	2.177	2.177	0.000	100	754101	50.0	51.6	
17 Ethyl ether	59	2.473	2.473	0.000	97	579418	50.0	47.3	
18 Acrolein	56	2.591	2.603	-0.012	99	192999	250.0	250.6	
19 1,1-Dichloroethene	96	2.710	2.698	0.012	94	432093	50.0	44.8	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.745	2.745	0.000	96	366561	50.0	46.1	
21 Acetone	58	2.792	2.792	0.000	98	169552	100.0	99.9	
23 Iodomethane	142	2.875	2.875	0.000	99	735745	50.0	47.9	
24 Carbon disulfide	76	2.934	2.934	0.000	99	1397824	50.0	47.0	
26 3-Chloro-1-propene	41	3.147	3.147	0.000	87	1300087	50.0	46.7	
27 Methyl acetate	43	3.218	3.218	0.000	100	1742670	100.0	97.9	
28 Methylene Chloride	84	3.313	3.313	0.000	95	548885	50.0	48.5	
29 2-Methyl-2-propanol	59	3.609	3.609	0.000	93	688137	500.0	431.5	
30 Acrylonitrile	53	3.680	3.680	0.000	97	3806189	500.0	501.0	
32 trans-1,2-Dichloroethene	96	3.692	3.703	-0.011	93	535727	50.0	45.0	
31 Methyl tert-butyl ether	73	3.763	3.763	0.000	96	1743215	50.0	48.7	
33 Hexane	57	4.153	4.165	-0.012	96	899534	50.0	48.4	
34 1,1-Dichloroethane	63	4.354	4.354	0.000	97	1138339	50.0	48.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Vinyl acetate	43	4.508	4.508	0.000	97	1655172	50.0	52.8	
41 2,2-Dichloropropane	97	5.171	5.171	0.000	94	129241	50.0	43.0	
39 cis-1,2-Dichloroethene	96	5.183	5.183	0.001	89	601036	50.0	45.5	
40 2-Butanone (MEK)	72	5.254	5.265	-0.011	98	189831	100.0	92.4	
45 Chlorobromomethane	128	5.478	5.478	0.000	90	288449	50.0	47.4	
46 Tetrahydrofuran	42	5.585	5.585	0.000	92	681599	100.0	96.1	
47 Chloroform	83	5.609	5.608	0.001	99	997128	50.0	47.0	
48 1,1,1-Trichloroethane	97	5.810	5.810	0.000	97	877485	50.0	48.2	
49 Cyclohexane	56	5.857	5.857	0.000	96	1165999	50.0	48.8	
51 Carbon tetrachloride	117	5.999	5.999	0.000	96	761344	50.0	48.0	
50 1,1-Dichloropropene	75	6.011	6.011	0.000	90	771025	50.0	48.1	
54 Benzene	78	6.248	6.247	0.001	97	2295571	50.0	48.0	
53 1,2-Dichloroethane	62	6.283	6.283	0.000	97	968498	50.0	47.7	
52 Isobutyl alcohol	41	6.295	6.307	-0.012	94	915103	1250.0	1258.3	
56 n-Heptane	100	6.614	6.614	0.000	98	117974	50.0	48.6	
58 Trichloroethene	130	6.993	6.993	0.000	96	570445	50.0	47.2	
60 Methylcyclohexane	83	7.194	7.194	0.000	97	895766	50.0	48.7	
61 1,2-Dichloropropane	63	7.230	7.230	0.000	95	637104	50.0	49.5	
63 Dibromomethane	93	7.348	7.348	0.000	95	354054	50.0	49.2	
64 1,4-Dioxane	88	7.431	7.431	0.000	96	113025	1000.0	986.6	
65 Dichlorobromomethane	83	7.537	7.537	0.000	98	758688	50.0	49.6	
67 2-Chloroethyl vinyl ether	63	7.892	7.892	0.000	90	969189	100.0	105.6	
68 cis-1,3-Dichloropropene	75	8.023	8.022	0.001	88	942627	50.0	52.0	
69 4-Methyl-2-pentanone (MIBK)	43	8.212	8.212	0.000	99	2199063	100.0	107.9	
70 Toluene	91	8.354	8.354	0.000	97	2415527	50.0	46.7	
71 trans-1,3-Dichloropropene	75	8.591	8.590	0.000	96	884841	50.0	51.3	
72 Ethyl methacrylate	69	8.721	8.721	0.000	95	858517	50.0	55.6	
73 1,1,2-Trichloroethane	97	8.768	8.768	0.000	95	516819	50.0	48.8	
75 Tetrachloroethene	164	8.910	8.910	0.000	97	413584	50.0	46.9	
74 1,3-Dichloropropane	76	8.934	8.934	0.000	96	915761	50.0	48.8	
76 2-Hexanone	43	9.052	9.052	0.000	98	1514096	100.0	106.1	
78 Chlorodibromomethane	129	9.158	9.158	0.000	90	557334	50.0	51.0	
80 Ethylene Dibromide	107	9.265	9.265	0.000	98	532489	50.0	49.0	
82 Chlorobenzene	112	9.762	9.762	0.000	91	1500153	50.0	47.2	
83 1,1,1,2-Tetrachloroethane	131	9.857	9.857	0.001	95	535757	50.0	48.7	
84 Ethylbenzene	106	9.880	9.880	0.000	98	844118	50.0	47.6	
85 m-Xylene & p-Xylene	106	9.999	9.999	0.001	97	1020994	50.0	48.1	
86 o-Xylene	106	10.389	10.389	0.000	98	1005356	50.0	47.1	
87 Styrene	104	10.401	10.401	0.000	95	1646904	50.0	51.5	
88 Bromoform	173	10.578	10.578	0.000	95	359509	50.0	54.5	
89 Isopropylbenzene	105	10.768	10.768	0.000	97	2499338	50.0	47.2	
93 Bromobenzene	156	11.052	11.052	0.000	97	590981	50.0	48.4	
92 1,1,2,2-Tetrachloroethane	83	11.064	11.063	0.001	95	726874	50.0	49.4	
95 1,2,3-Trichloropropane	110	11.099	11.099	0.000	90	237153	50.0	48.4	
94 trans-1,4-Dichloro-2-butene	53	11.123	11.123	0.000	84	315949	50.0	53.8	
96 N-Propylbenzene	120	11.170	11.170	0.000	99	687448	50.0	48.8	
97 2-Chlorotoluene	126	11.253	11.253	0.000	96	582519	50.0	48.5	
99 1,3,5-Trimethylbenzene	105	11.348	11.347	0.001	94	2033938	50.0	48.1	
100 4-Chlorotoluene	126	11.359	11.359	0.000	99	599892	50.0	49.0	
102 tert-Butylbenzene	119	11.667	11.667	0.000	95	1739577	50.0	48.7	
104 1,2,4-Trimethylbenzene	105	11.714	11.714	0.000	98	2140251	50.0	48.7	
105 sec-Butylbenzene	105	11.892	11.892	0.000	95	2412956	50.0	48.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,3-Dichlorobenzene	146	11.987	11.986	0.001	97	1090271	50.0	48.5	
107 4-Isopropyltoluene	119	12.034	12.034	0.000	97	2038494	50.0	48.4	
108 1,4-Dichlorobenzene	146	12.081	12.081	0.000	93	1109001	50.0	48.3	
111 n-Butylbenzene	91	12.448	12.448	0.000	98	1769695	50.0	48.6	
112 1,2-Dichlorobenzene	146	12.448	12.448	0.000	76	1044328	50.0	47.6	
113 1,2-Dibromo-3-Chloropropane	157	13.217	13.217	0.000	76	157886	50.0	51.1	
115 1,2,4-Trichlorobenzene	180	14.045	14.045	0.000	94	617880	50.0	47.6	
116 Hexachlorobutadiene	225	14.235	14.235	0.000	97	210164	50.0	48.6	
117 Naphthalene	128	14.282	14.282	0.000	98	2239571	50.0	48.9	
118 1,2,3-Trichlorobenzene	180	14.531	14.531	0.001	95	581521	50.0	48.2	
S 134 Trihalomethanes, Total	1				0		200.0	202.1	
S 158 Total BTEX	1				0		250.0	237.4	
S 131 1,2-Dichloroethene, Total	96				0			90.5	
S 132 1,3-Dichloropropene, Total	75				0			103.2	
S 133 Xylenes, Total	106				0		100.0	95.2	

QC Flag Legend

Processing Flags

Reagents:

VMRPRIMW_00542	Amount Added:	40.00	Units: uL	
VMRGAS_00487	Amount Added:	40.00	Units: uL	
VMAROLISTDW_00495	Amount Added:	40.00	Units: uL	
vm125UX21_SS_00007	Amount Added:	1.00	Units: uL	Run Reagent
vm40ml_vials_00024	Amount Added:	0.00	Units:	Run Reagent
vm125UX21_IS_00050	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00237	Amount Added:	0.00	Units:	Run Reagent

Report Date: 05-Aug-2023 12:38:53 Chrom Revision: 2.3 03-Aug-2023 16:11:04

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\236435.D

Injection Date: 04-Aug-2023 18:44:30 Instrument ID: A3UX23 Operator ID:

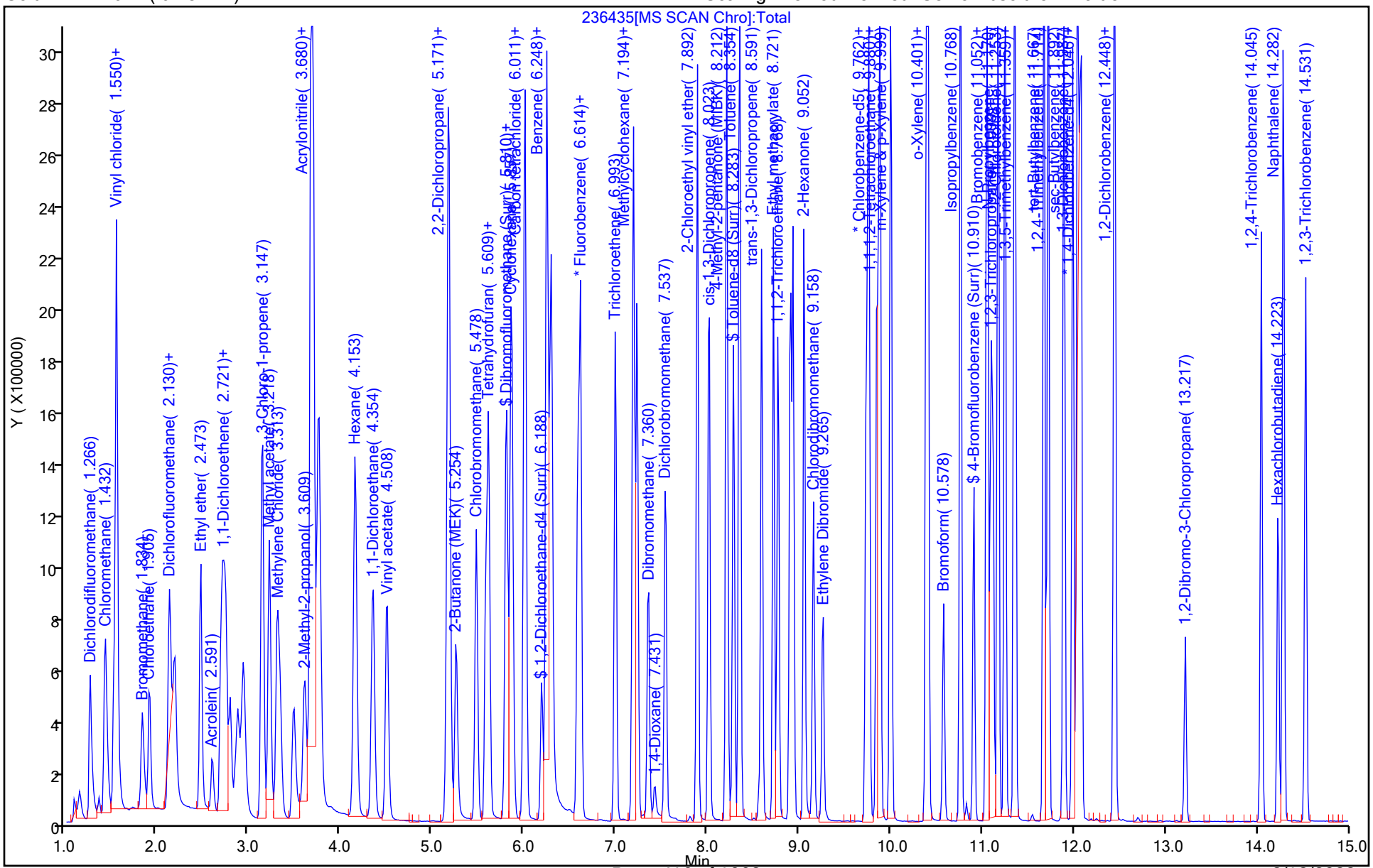
Lims ID: ic Worklist Smp#: 10

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 9

Method: 8260_23 Limit Group: MSV 8260C ICAL

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Cleveland
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\236436.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 04-Aug-2023 19:09:30 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0132136-011
Operator ID: Instrument ID: A3UX23
Sublist: chrom-8260_23*sub1

Method: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\8260_23.m
Limit Group: MSV 8260C ICAL
Last Update: 05-Aug-2023 12:38:57 Calib Date: 04-Aug-2023 19:09:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\236436.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1647

First Level Reviewer: SE1B Date: 05-Aug-2023 11:23:06

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.591	6.591	0.000	97	1149038	25.0	25.0	
* 2 Chlorobenzene-d5	117	9.738	9.738	0.000	88	842010	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	12.058	12.057	0.001	97	389013	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.810	5.810	0.000	50	250968	25.0	24.9	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.188	6.188	0.000	97	366220	25.0	25.1	
$ 6 Toluene-d8 (Surr)	98	8.283	8.283	0.000	95	1022725	25.0	24.9	
$ 7 4-Bromofluorobenzene (Surr)	95	10.910	10.910	0.000	84	413442	25.0	25.2	
9 Dichlorodifluoromethane	85	1.266	1.266	0.000	99	884418	62.5	59.1	
10 Chloromethane	50	1.432	1.431	0.001	100	1326126	62.5	61.4	
11 Vinyl chloride	62	1.526	1.526	0.000	99	935879	62.5	62.4	
12 Butadiene	54	1.550	1.550	0.000	97	1181133	62.5	59.0	
13 Bromomethane	94	1.834	1.834	0.000	91	422511	62.5	51.4	
14 Chloroethane	64	1.917	1.917	0.000	97	522354	62.5	56.9	
15 Dichlorofluoromethane	67	2.130	2.130	0.000	99	1042988	62.5	60.7	
16 Trichlorofluoromethane	101	2.177	2.177	0.000	99	934196	62.5	62.5	
17 Ethyl ether	59	2.473	2.473	0.000	97	755958	62.5	60.3	
18 Acrolein	56	2.603	2.603	0.000	98	228636	312.5	290.0	
19 1,1-Dichloroethene	96	2.710	2.698	0.012	94	581209	62.5	58.9	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.745	2.745	0.000	96	473260	62.5	58.1	
21 Acetone	58	2.792	2.792	0.000	98	209798	125.0	121.2	
23 Iodomethane	142	2.875	2.875	0.000	99	963996	62.5	61.3	
24 Carbon disulfide	76	2.934	2.934	0.000	99	1854849	62.5	60.9	
26 3-Chloro-1-propene	41	3.147	3.147	0.000	87	1718495	62.5	60.2	
27 Methyl acetate	43	3.218	3.218	0.000	100	2273864	125.0	124.8	
28 Methylene Chloride	84	3.313	3.313	0.000	95	722326	62.5	62.5	
29 2-Methyl-2-propanol	59	3.609	3.609	0.000	93	1020779	625.0	625.4	
30 Acrylonitrile	53	3.680	3.680	0.000	97	4847006	625.0	623.3	
32 trans-1,2-Dichloroethene	96	3.704	3.703	0.001	92	711557	62.5	58.4	
31 Methyl tert-butyl ether	73	3.763	3.763	0.000	97	2269080	62.5	61.9	
33 Hexane	57	4.153	4.165	-0.012	96	1149074	62.5	60.4	
34 1,1-Dichloroethane	63	4.354	4.354	0.000	97	1496440	62.5	62.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Vinyl acetate	43	4.508	4.508	0.000	97	2135250	62.5	66.6	
41 2,2-Dichloropropane	97	5.171	5.171	0.000	92	169888	62.5	55.3	
39 cis-1,2-Dichloroethene	96	5.183	5.183	0.001	89	804620	62.5	59.5	
40 2-Butanone (MEK)	72	5.266	5.265	0.001	98	244742	125.0	116.3	
45 Chlorobromomethane	128	5.479	5.478	0.000	89	373591	62.5	60.0	
46 Tetrahydrofuran	42	5.585	5.585	0.000	92	895740	125.0	123.4	
47 Chloroform	83	5.609	5.608	0.001	99	1317085	62.5	60.6	
48 1,1,1-Trichloroethane	97	5.810	5.810	0.000	97	1154732	62.5	61.9	
49 Cyclohexane	56	5.857	5.857	0.000	96	1513744	62.5	61.9	
51 Carbon tetrachloride	117	5.999	5.999	0.000	96	999536	62.5	61.6	
50 1,1-Dichloropropene	75	6.011	6.011	0.000	89	1026647	62.5	62.5	
54 Benzene	78	6.248	6.247	0.001	98	3000618	62.5	61.3	
53 1,2-Dichloroethane	62	6.283	6.283	0.000	97	1259606	62.5	60.6	
52 Isobutyl alcohol	41	6.307	6.307	0.000	94	1103399	1562.5	1482.2	
56 n-Heptane	100	6.614	6.614	0.000	98	152092	62.5	61.2	
58 Trichloroethene	130	6.993	6.993	0.000	97	751326	62.5	60.7	
60 Methylcyclohexane	83	7.194	7.194	0.000	98	1143333	62.5	60.7	
61 1,2-Dichloropropane	63	7.230	7.230	0.000	94	834961	62.5	63.4	
63 Dibromomethane	93	7.348	7.348	0.000	96	460463	62.5	62.6	
64 1,4-Dioxane	88	7.431	7.431	0.000	97	144973	1250.0	1236.2	
65 Dichlorobromomethane	83	7.537	7.537	0.000	98	994466	62.5	63.5	
67 2-Chloroethyl vinyl ether	63	7.892	7.892	0.000	89	1235071	125.0	131.5	
68 cis-1,3-Dichloropropene	75	8.023	8.022	0.001	89	1211460	62.5	65.3	
69 4-Methyl-2-pentanone (MIBK)	43	8.212	8.212	0.000	99	2812771	125.0	134.8	
70 Toluene	91	8.354	8.354	0.000	97	3154797	62.5	60.7	
71 trans-1,3-Dichloropropene	75	8.591	8.590	0.001	97	1151495	62.5	66.5	
72 Ethyl methacrylate	69	8.721	8.721	0.000	94	1094639	62.5	70.7	
73 1,1,2-Trichloroethane	97	8.768	8.768	0.000	95	664699	62.5	62.5	
75 Tetrachloroethene	164	8.910	8.910	0.000	97	543058	62.5	61.4	
74 1,3-Dichloropropane	76	8.934	8.934	0.000	96	1180422	62.5	62.7	
76 2-Hexanone	43	9.052	9.052	0.000	98	1881092	125.0	131.3	
78 Chlorodibromomethane	129	9.159	9.158	0.001	90	722828	62.5	66.0	
80 Ethylene Dibromide	107	9.265	9.265	0.000	99	691943	62.5	63.5	
82 Chlorobenzene	112	9.762	9.762	0.000	91	1964341	62.5	61.5	
83 1,1,1,2-Tetrachloroethane	131	9.857	9.857	0.001	94	696544	62.5	63.1	
84 Ethylbenzene	106	9.880	9.880	0.000	98	1091235	62.5	61.3	
85 m-Xylene & p-Xylene	106	9.999	9.999	0.001	97	1339847	62.5	62.9	
86 o-Xylene	106	10.389	10.389	0.000	95	1330798	62.5	62.1	
87 Styrene	104	10.401	10.401	0.000	95	2150603	62.5	67.0	
88 Bromoform	173	10.578	10.578	0.000	95	461881	62.5	69.8	
89 Isopropylbenzene	105	10.768	10.768	0.000	97	3278255	62.5	61.7	
93 Bromobenzene	156	11.052	11.052	0.000	97	768440	62.5	63.8	
92 1,1,2,2-Tetrachloroethane	83	11.064	11.063	0.001	98	908668	62.5	62.6	
95 1,2,3-Trichloropropane	110	11.099	11.099	0.000	91	294882	62.5	61.0	
94 trans-1,4-Dichloro-2-butene	53	11.123	11.123	0.000	77	393624	62.5	67.9	
96 N-Propylbenzene	120	11.170	11.170	0.000	99	890968	62.5	64.1	
97 2-Chlorotoluene	126	11.253	11.253	0.000	96	763948	62.5	64.5	
99 1,3,5-Trimethylbenzene	105	11.348	11.347	0.001	94	2679733	62.5	64.2	
100 4-Chlorotoluene	126	11.359	11.359	0.000	99	770051	62.5	63.7	
102 tert-Butylbenzene	119	11.679	11.667	0.012	94	2272635	62.5	64.5	
104 1,2,4-Trimethylbenzene	105	11.726	11.714	0.012	98	2781894	62.5	64.1	
105 sec-Butylbenzene	105	11.892	11.892	0.000	95	3133760	62.5	64.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,3-Dichlorobenzene	146	11.987	11.986	0.001	97	1402962	62.5	63.2	
107 4-Isopropyltoluene	119	12.034	12.034	0.000	97	2693640	62.5	64.8	
108 1,4-Dichlorobenzene	146	12.081	12.081	0.000	93	1420961	62.5	62.7	
111 n-Butylbenzene	91	12.448	12.448	0.000	97	2292363	62.5	63.7	
112 1,2-Dichlorobenzene	146	12.448	12.448	0.000	76	1334918	62.5	61.7	
113 1,2-Dibromo-3-Chloropropane	157	13.217	13.217	0.000	77	197913	62.5	64.9	
115 1,2,4-Trichlorobenzene	180	14.046	14.045	0.001	94	784020	62.5	61.2	
116 Hexachlorobutadiene	225	14.235	14.235	0.000	97	270691	62.5	63.5	
117 Naphthalene	128	14.282	14.282	0.000	98	2776663	62.5	61.4	
118 1,2,3-Trichlorobenzene	180	14.531	14.531	0.001	95	724605	62.5	60.9	
S 134 Trihalomethanes, Total	1				0		250.0	259.9	
S 158 Total BTEX	1				0		312.5	308.4	
S 131 1,2-Dichloroethene, Total	96				0			117.8	
S 132 1,3-Dichloropropene, Total	75				0			131.7	
S 133 Xylenes, Total	106				0		125.0	125.0	

QC Flag Legend

Processing Flags

Reagents:

VMAROLISTDW_00495	Amount Added:	50.00	Units: uL	
VMRGAS_00487	Amount Added:	50.00	Units: uL	
VMRPRIMW_00542	Amount Added:	50.00	Units: uL	
vm125UX21_SS_00007	Amount Added:	1.00	Units: uL	Run Reagent
vm40ml_vials_00024	Amount Added:	0.00	Units:	Run Reagent
vm125UX21_IS_00050	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00237	Amount Added:	0.00	Units:	Run Reagent

Report Date: 05-Aug-2023 12:38:57 Chrom Revision: 2.3 03-Aug-2023 16:11:04

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\236436.D

Injection Date: 04-Aug-2023 19:09:30 Instrument ID: A3UX23 Operator ID:

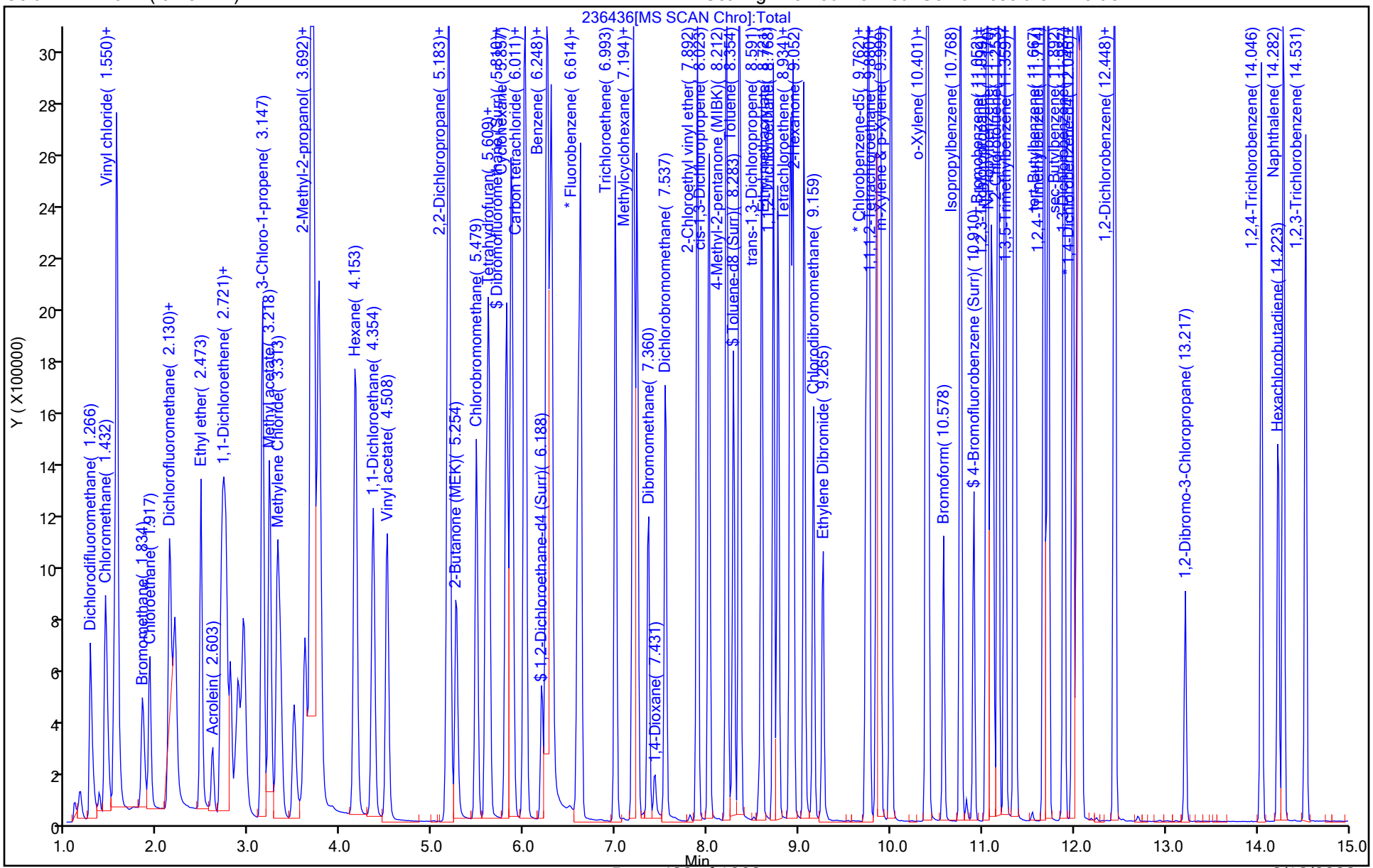
Lims ID: ic Worklist Smp#: 11

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 10

Method: 8260_23 Limit Group: MSV 8260C ICAL

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



8/12/2023
10:47 AM

Calibration / Dichlorodifluoromethane

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

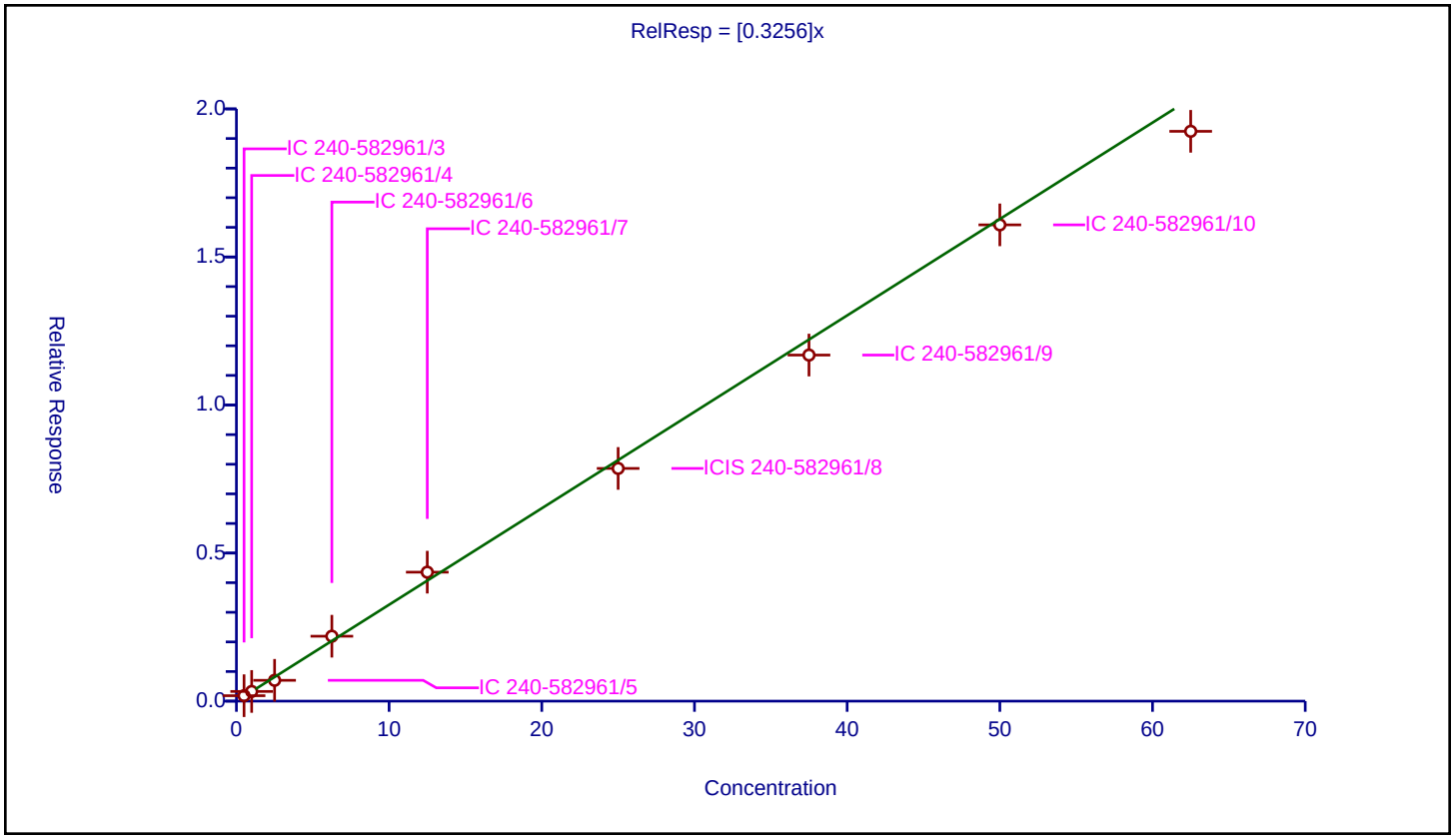
Curve Coefficients

Intercept:	0
Slope:	0.3256

Error Coefficients

Standard Error:	464000
Relative Standard Error:	8.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 240-582961/3	0.5	0.183709	25.0	1093033.0	0.367418	Y
2	IC 240-582961/4	1.0	0.326903	25.0	1111185.0	0.326903	Y
3	IC 240-582961/5	2.5	0.703276	25.0	1145567.0	0.28131	Y
4	IC 240-582961/6	6.25	2.192391	25.0	1119634.0	0.350782	Y
5	IC 240-582961/7	12.5	4.355863	25.0	918974.0	0.348469	Y
6	ICIS 240-582961/8	25.0	7.859092	25.0	1078248.0	0.314364	Y
7	IC 240-582961/9	37.5	11.686317	25.0	1104884.0	0.311635	Y
8	IC 240-582961/10	50.0	16.084309	25.0	1122507.0	0.321686	Y
9	IC 240-582961/11	62.5	19.242575	25.0	1149038.0	0.307881	Y



Calibration / Chloromethane

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

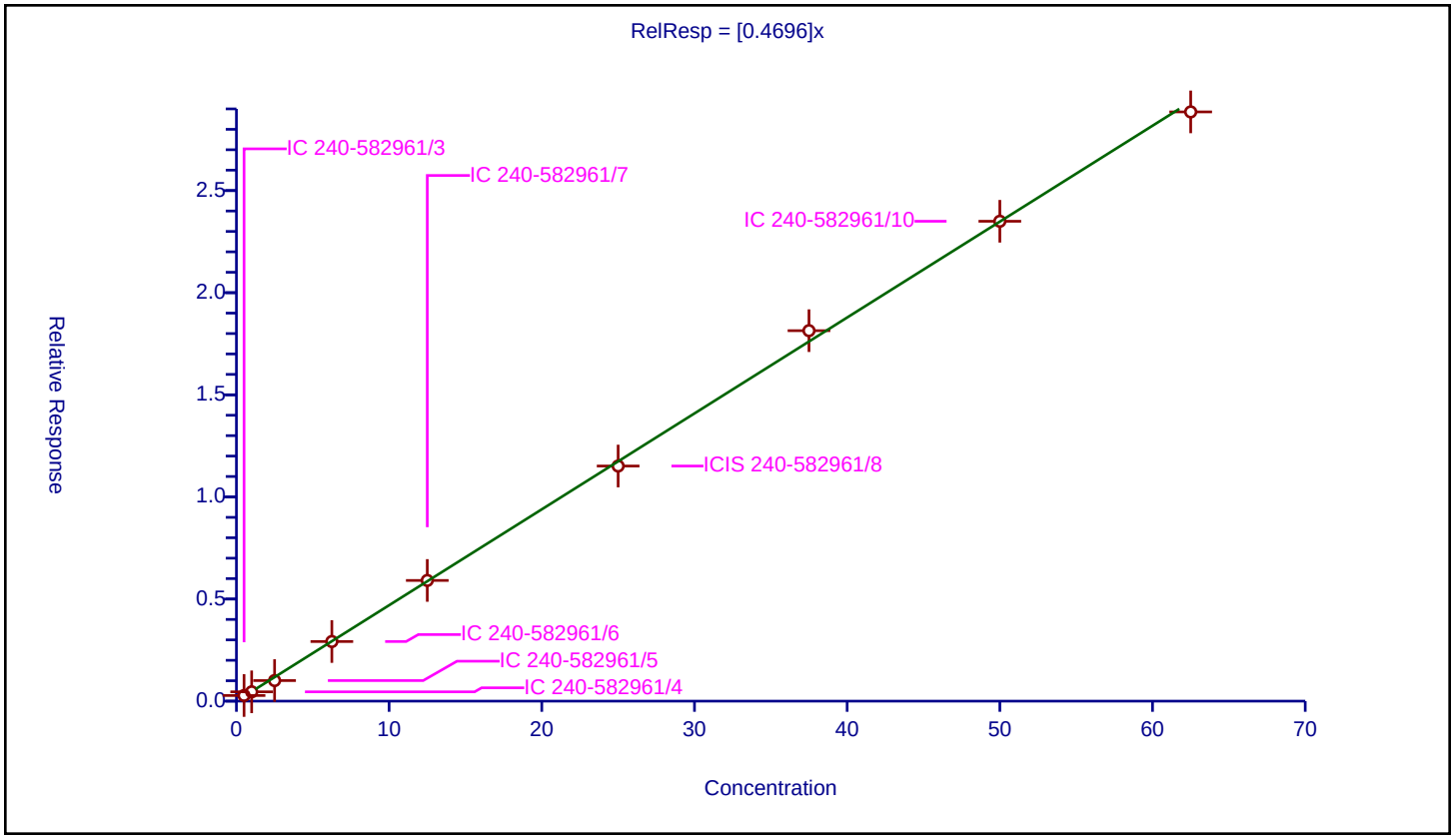
Curve Coefficients

Intercept:	0
Slope:	0.4696

Error Coefficients

Standard Error:	692000
Relative Standard Error:	8.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 240-582961/3	0.5	0.275861	25.0	1093033.0	0.551722	Y
2	IC 240-582961/4	1.0	0.455685	25.0	1111185.0	0.455685	Y
3	IC 240-582961/5	2.5	1.007885	25.0	1145567.0	0.403154	Y
4	IC 240-582961/6	6.25	2.919905	25.0	1119634.0	0.467185	Y
5	IC 240-582961/7	12.5	5.909797	25.0	918974.0	0.472784	Y
6	ICIS 240-582961/8	25.0	11.512658	25.0	1078248.0	0.460506	Y
7	IC 240-582961/9	37.5	18.140411	25.0	1104884.0	0.483744	Y
8	IC 240-582961/10	50.0	23.497604	25.0	1122507.0	0.469952	Y
9	IC 240-582961/11	62.5	28.852962	25.0	1149038.0	0.461647	Y



Calibration / Vinyl chloride

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

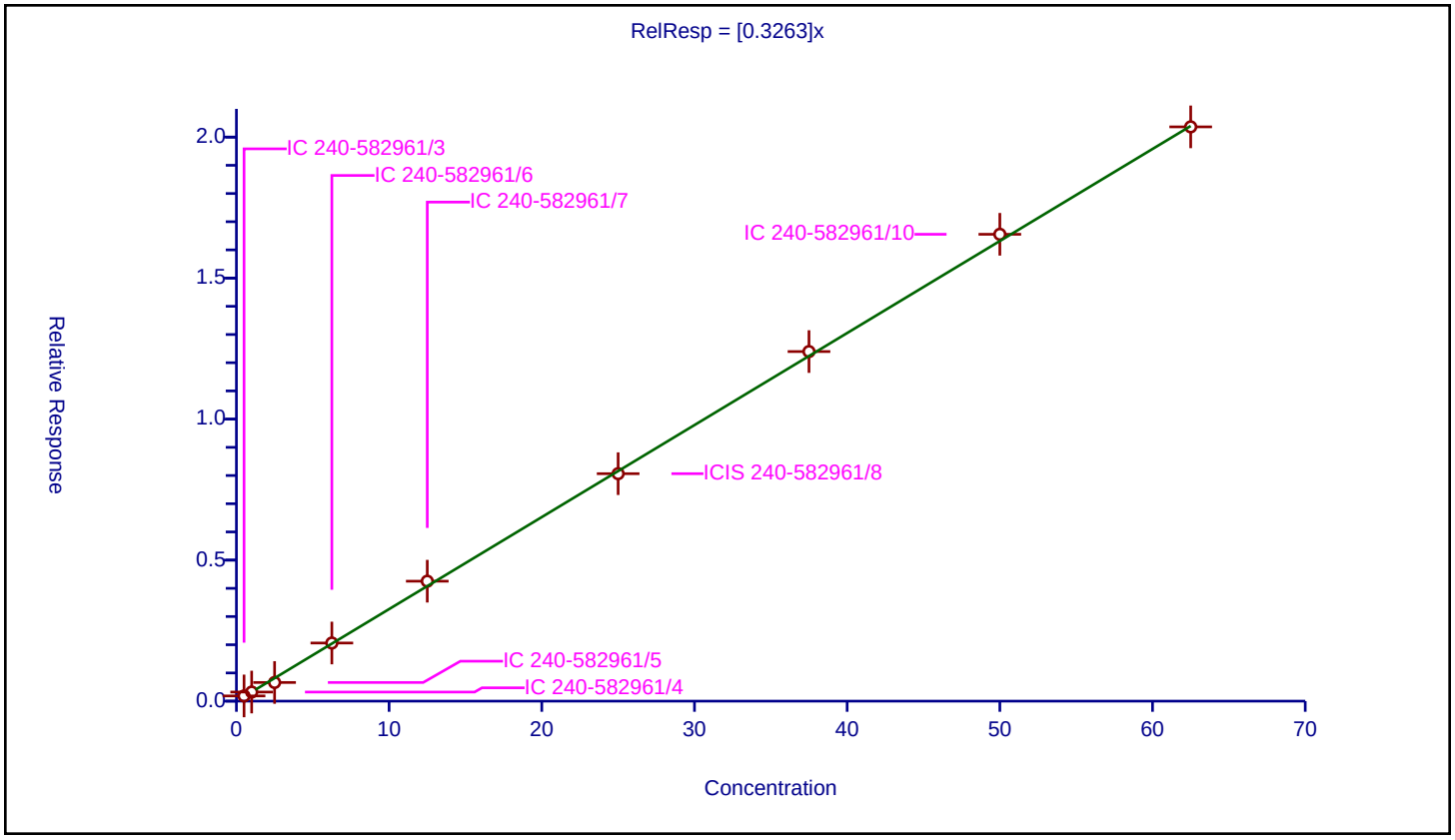
Curve Coefficients

Intercept:	0
Slope:	0.3263

Error Coefficients

Standard Error:	485000
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 240-582961/3	0.5	0.18499	25.0	1093033.0	0.36998	Y
2	IC 240-582961/4	1.0	0.322314	25.0	1111185.0	0.322314	Y
3	IC 240-582961/5	2.5	0.661092	25.0	1145567.0	0.264437	Y
4	IC 240-582961/6	6.25	2.060941	25.0	1119634.0	0.329751	Y
5	IC 240-582961/7	12.5	4.252977	25.0	918974.0	0.340238	Y
6	ICIS 240-582961/8	25.0	8.06526	25.0	1078248.0	0.32261	Y
7	IC 240-582961/9	37.5	12.395487	25.0	1104884.0	0.330546	Y
8	IC 240-582961/10	50.0	16.553349	25.0	1122507.0	0.331067	Y
9	IC 240-582961/11	62.5	20.362229	25.0	1149038.0	0.325796	Y



Calibration / Butadiene

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

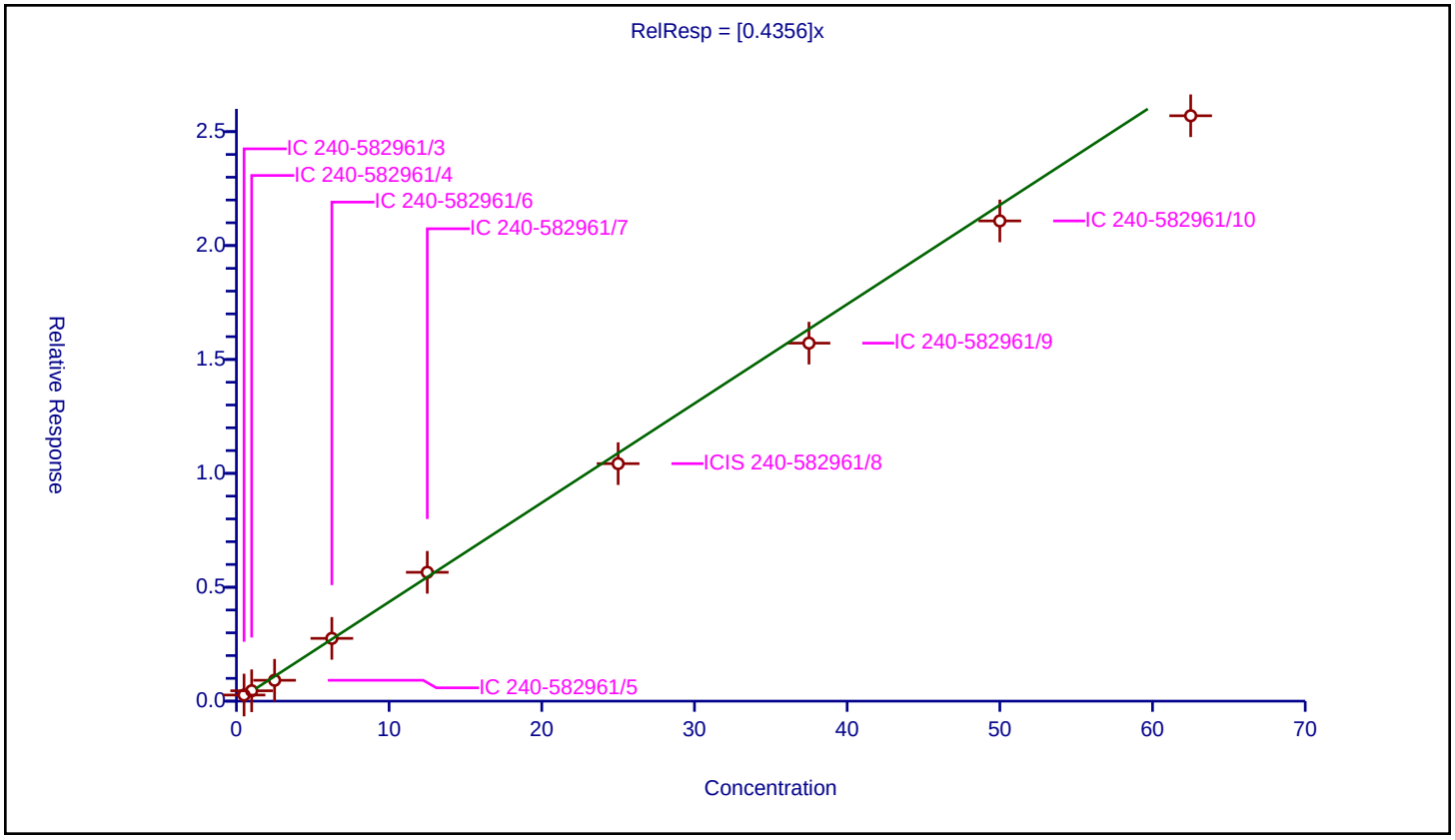
Curve Coefficients

Intercept:	0
Slope:	0.4356

Error Coefficients

Standard Error:	616000
Relative Standard Error:	10.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 240-582961/3	0.5	0.268176	25.0	1093033.0	0.536352	Y
2	IC 240-582961/4	1.0	0.455032	25.0	1111185.0	0.455032	Y
3	IC 240-582961/5	2.5	0.916206	25.0	1145567.0	0.366482	Y
4	IC 240-582961/6	6.25	2.755231	25.0	1119634.0	0.440837	Y
5	IC 240-582961/7	12.5	5.656471	25.0	918974.0	0.452518	Y
6	ICIS 240-582961/8	25.0	10.426335	25.0	1078248.0	0.417053	Y
7	IC 240-582961/9	37.5	15.716175	25.0	1104884.0	0.419098	Y
8	IC 240-582961/10	50.0	21.08165	25.0	1122507.0	0.421633	Y
9	IC 240-582961/11	62.5	25.698302	25.0	1149038.0	0.411173	Y



8/12/2023
10:47 AM

Calibration / Bromomethane

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

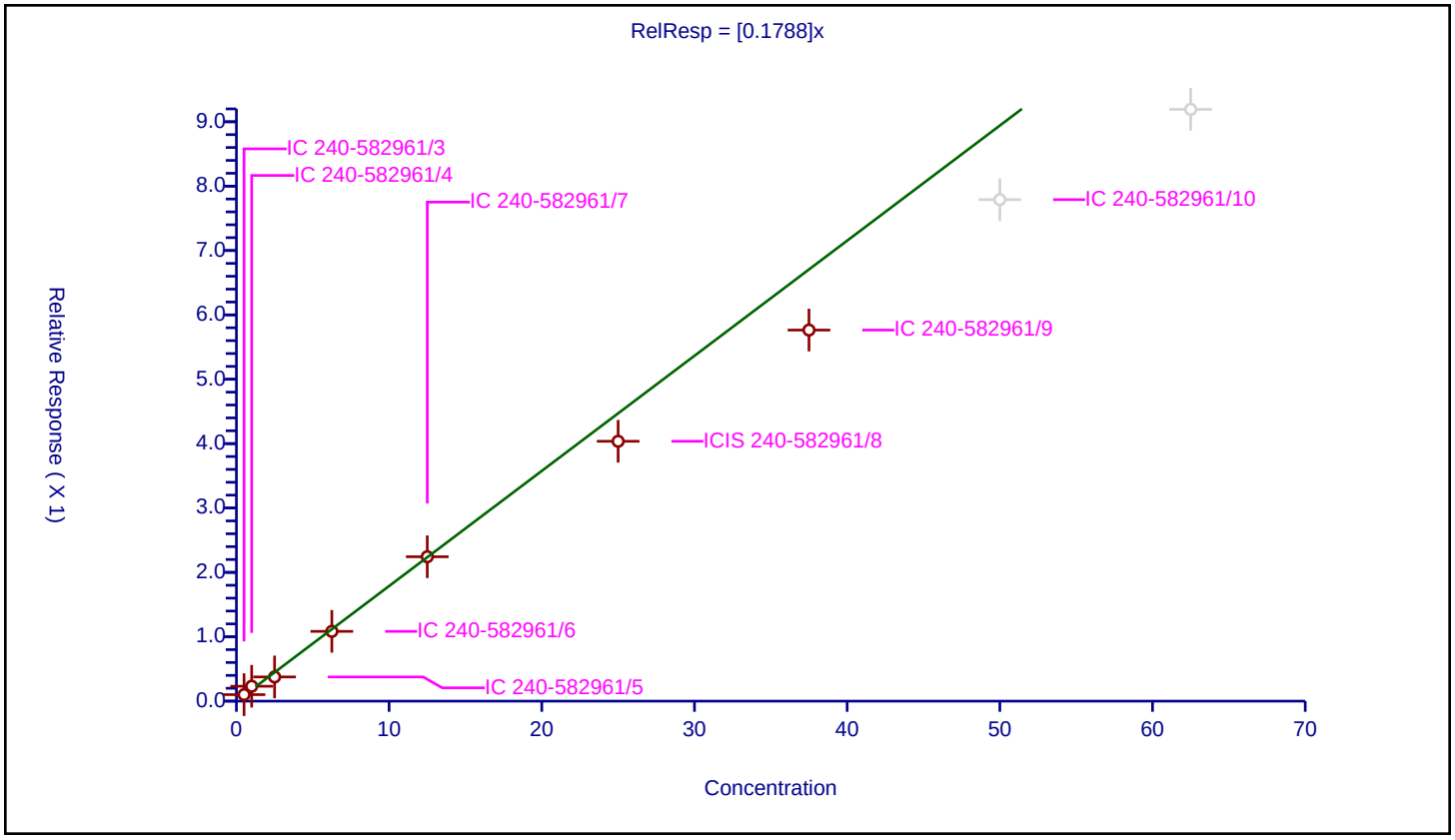
Curve Coefficients

Intercept:	0
Slope:	0.1788

Error Coefficients

Standard Error:	132000
Relative Standard Error:	16.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.958

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 240-582961/3	0.5	0.100958	25.0	1093033.0	0.201915	Y
2	IC 240-582961/4	1.0	0.231375	25.0	1111185.0	0.231375	Y
3	IC 240-582961/5	2.5	0.376058	25.0	1145567.0	0.150423	Y
4	IC 240-582961/6	6.25	1.083769	25.0	1119634.0	0.173403	Y
5	IC 240-582961/7	12.5	2.243181	25.0	918974.0	0.179454	Y
6	ICIS 240-582961/8	25.0	4.036687	25.0	1078248.0	0.161467	Y
7	IC 240-582961/9	37.5	5.76418	25.0	1104884.0	0.153711	Y
8	IC 240-582961/10	50.0	7.790486	25.0	1122507.0	0.15581	N
9	IC 240-582961/11	62.5	9.192712	25.0	1149038.0	0.147083	N



Calibration / Chloroethane

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

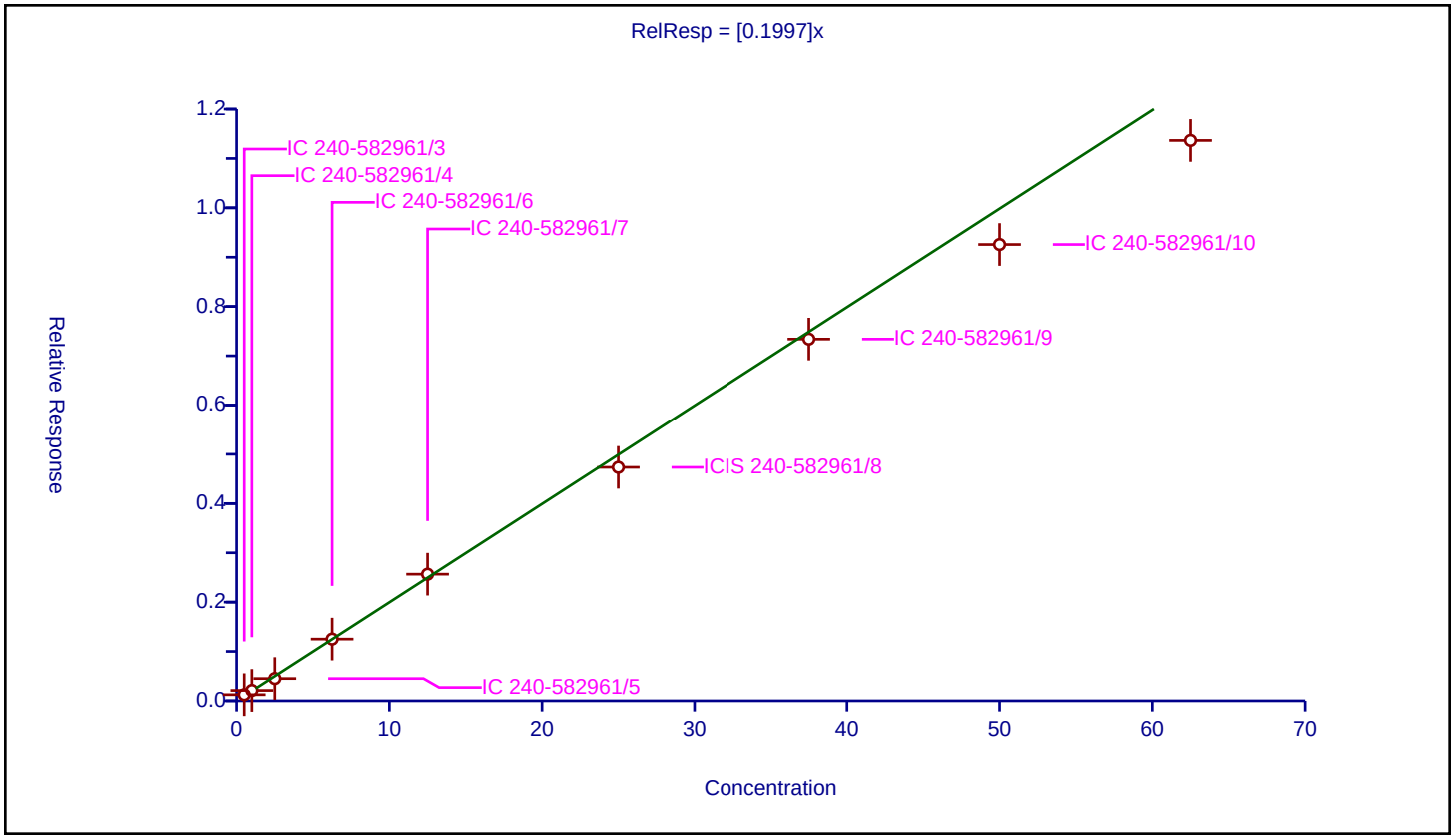
Curve Coefficients

Intercept:	0
Slope:	0.1997

Error Coefficients

Standard Error:	275000
Relative Standard Error:	10.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 240-582961/3	0.5	0.124287	25.0	1093033.0	0.248574	Y
2	IC 240-582961/4	1.0	0.210384	25.0	1111185.0	0.210384	Y
3	IC 240-582961/5	2.5	0.450999	25.0	1145567.0	0.1804	Y
4	IC 240-582961/6	6.25	1.250632	25.0	1119634.0	0.200101	Y
5	IC 240-582961/7	12.5	2.566667	25.0	918974.0	0.205333	Y
6	ICIS 240-582961/8	25.0	4.735158	25.0	1078248.0	0.189406	Y
7	IC 240-582961/9	37.5	7.339051	25.0	1104884.0	0.195708	Y
8	IC 240-582961/10	50.0	9.25698	25.0	1122507.0	0.18514	Y
9	IC 240-582961/11	62.5	11.365029	25.0	1149038.0	0.18184	Y



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

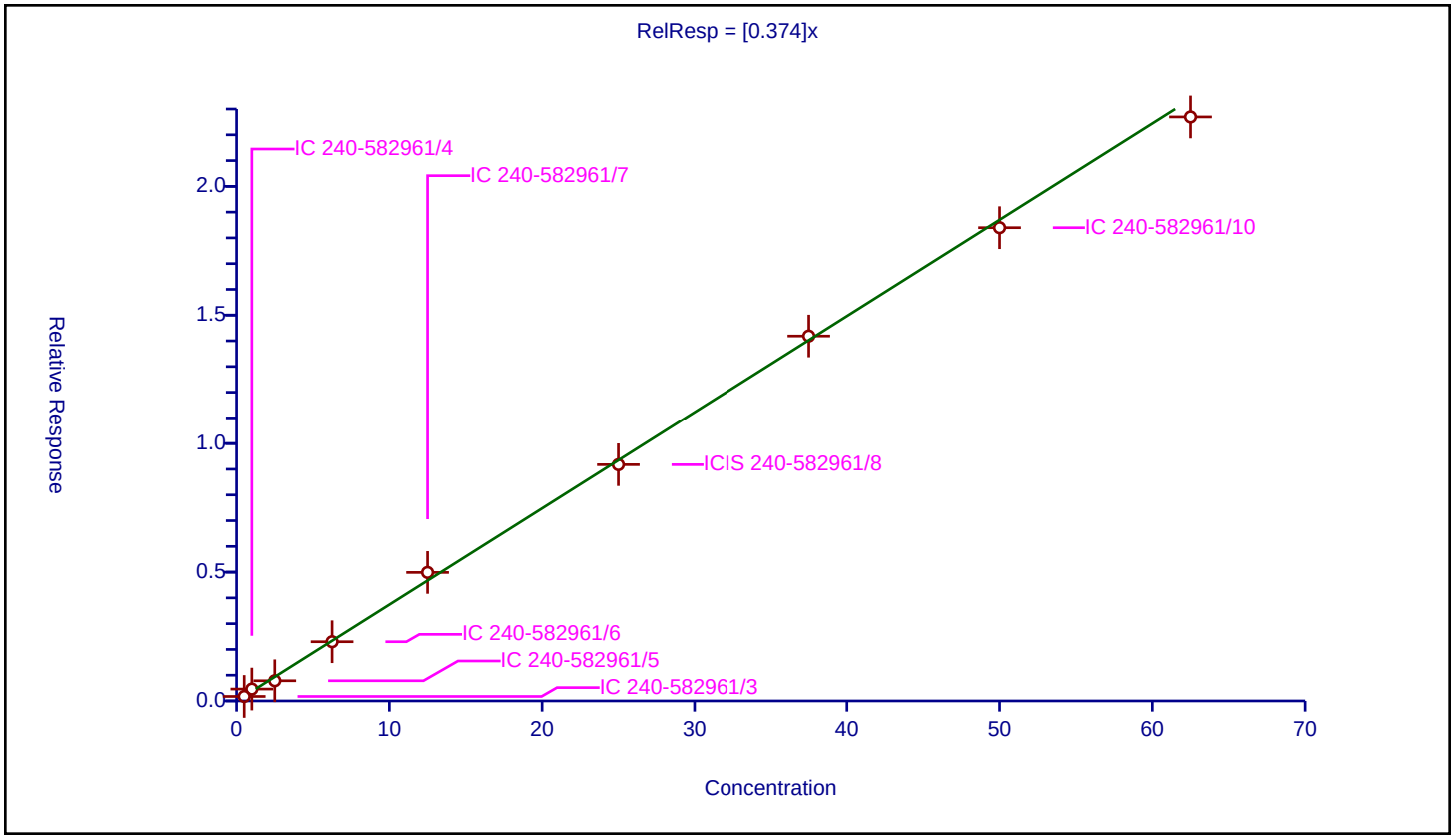
Curve Coefficients

Intercept:	0
Slope:	0.374

Error Coefficients

Standard Error:	544000
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 240-582961/3	0.5	0.173805	25.0	1093033.0	0.347611	Y
2	IC 240-582961/4	1.0	0.461512	25.0	1111185.0	0.461512	Y
3	IC 240-582961/5	2.5	0.783935	25.0	1145567.0	0.313574	Y
4	IC 240-582961/6	6.25	2.298564	25.0	1119634.0	0.36777	Y
5	IC 240-582961/7	12.5	4.98945	25.0	918974.0	0.399156	Y
6	ICIS 240-582961/8	25.0	9.177666	25.0	1078248.0	0.367107	Y
7	IC 240-582961/9	37.5	14.186444	25.0	1104884.0	0.378305	Y
8	IC 240-582961/10	50.0	18.395899	25.0	1122507.0	0.367918	Y
9	IC 240-582961/11	62.5	22.692635	25.0	1149038.0	0.363082	Y



Calibration / Trichlorofluoromethane

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

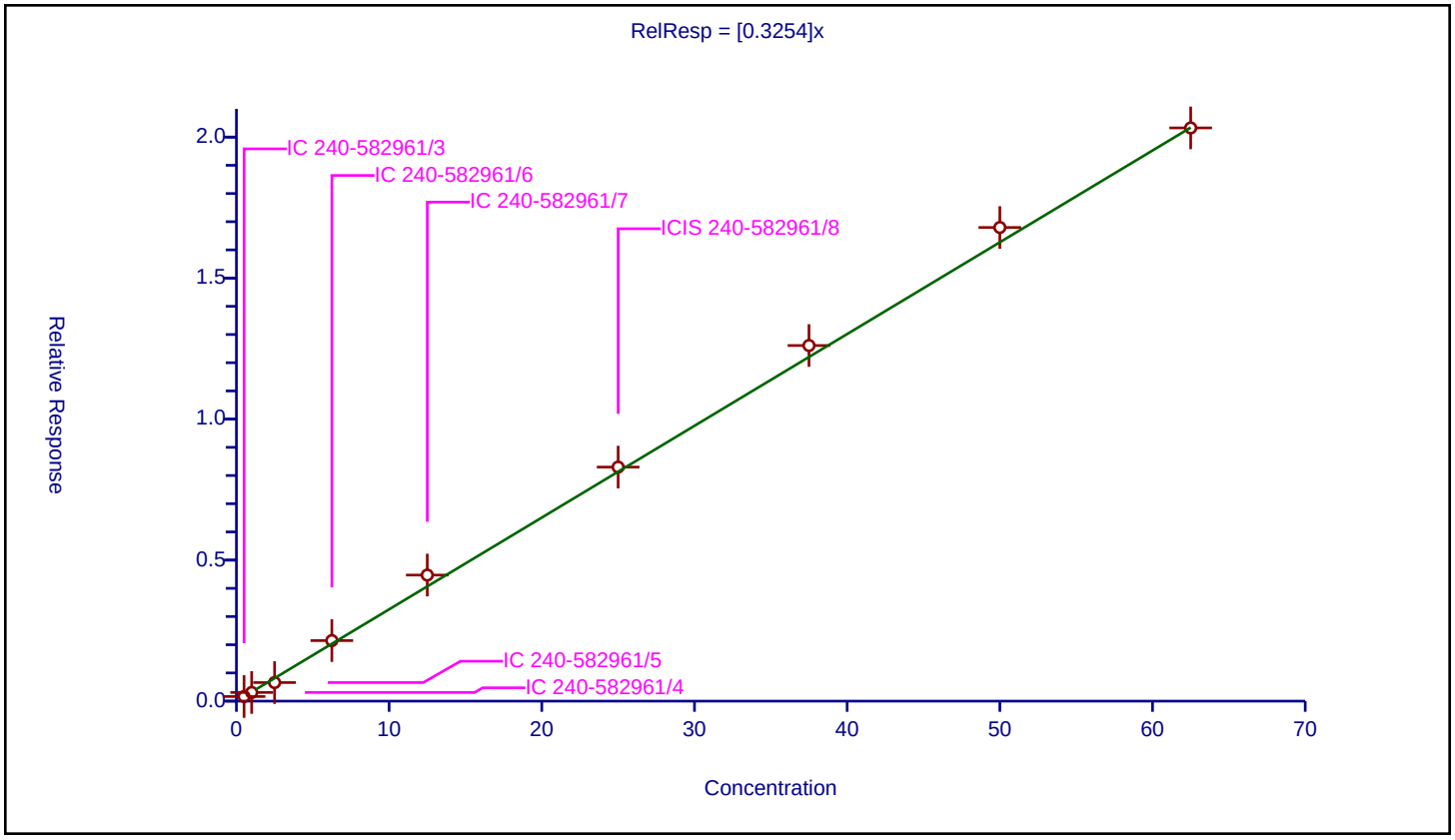
Curve Coefficients

Intercept:	0
Slope:	0.3254

Error Coefficients

Standard Error:	490000
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 240-582961/3	0.5	0.163833	25.0	1093033.0	0.327666	Y
2	IC 240-582961/4	1.0	0.307105	25.0	1111185.0	0.307105	Y
3	IC 240-582961/5	2.5	0.658648	25.0	1145567.0	0.263459	Y
4	IC 240-582961/6	6.25	2.147019	25.0	1119634.0	0.343523	Y
5	IC 240-582961/7	12.5	4.470094	25.0	918974.0	0.357608	Y
6	ICIS 240-582961/8	25.0	8.298508	25.0	1078248.0	0.33194	Y
7	IC 240-582961/9	37.5	12.609944	25.0	1104884.0	0.336265	Y
8	IC 240-582961/10	50.0	16.795018	25.0	1122507.0	0.3359	Y
9	IC 240-582961/11	62.5	20.325612	25.0	1149038.0	0.32521	Y



Calibration / Ethyl ether

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

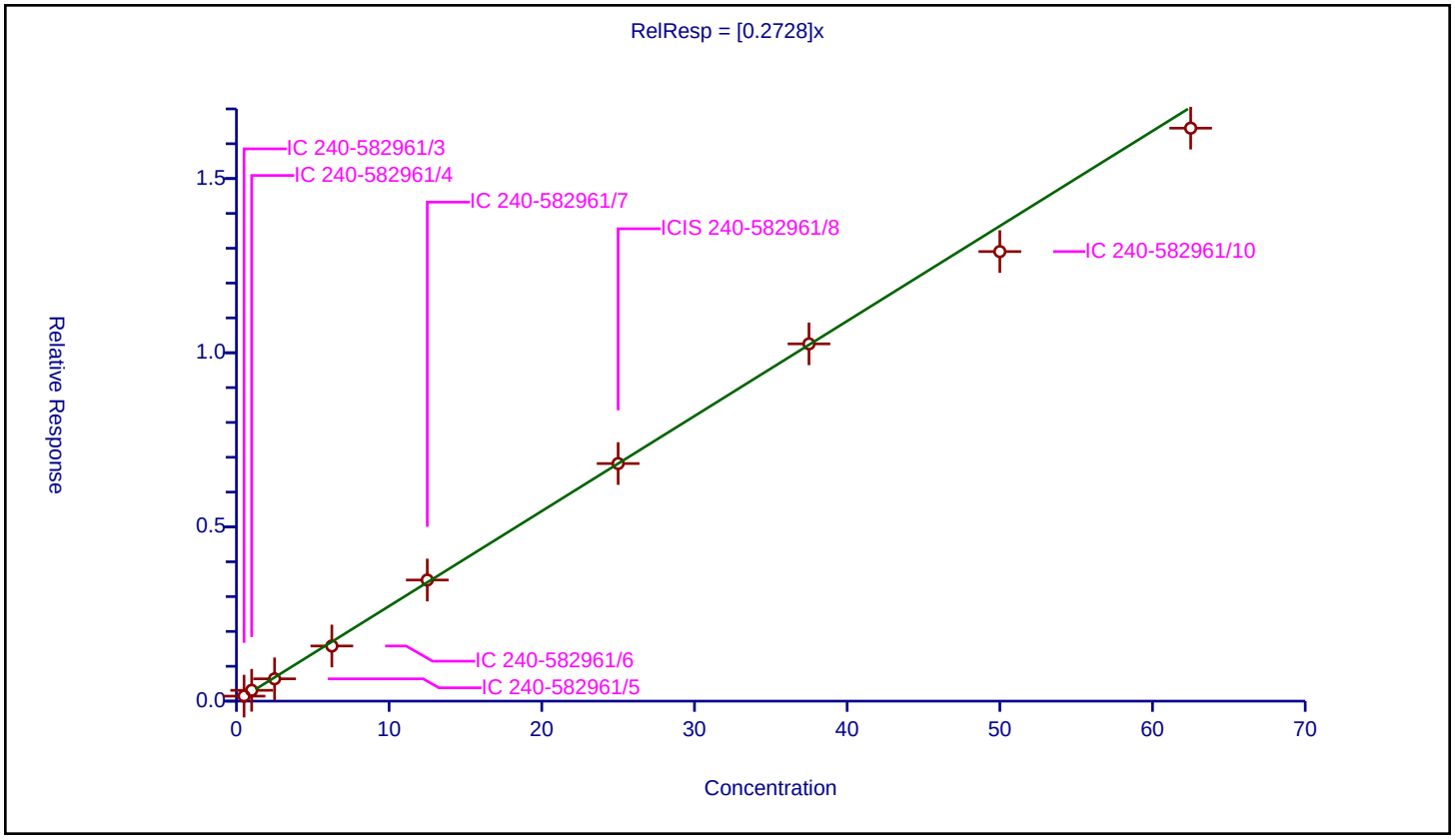
Curve Coefficients

Intercept:	0
Slope:	0.2728

Error Coefficients

Standard Error:	391000
Relative Standard Error:	6.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 240-582961/3	0.5	0.144369	25.0	1093033.0	0.288738	Y
2	IC 240-582961/4	1.0	0.311019	25.0	1111185.0	0.311019	Y
3	IC 240-582961/5	2.5	0.640447	25.0	1145567.0	0.256179	Y
4	IC 240-582961/6	6.25	1.582749	25.0	1119634.0	0.25324	Y
5	IC 240-582961/7	12.5	3.476268	25.0	918974.0	0.278101	Y
6	ICIS 240-582961/8	25.0	6.819674	25.0	1078248.0	0.272787	Y
7	IC 240-582961/9	37.5	10.25542	25.0	1104884.0	0.273478	Y
8	IC 240-582961/10	50.0	12.904552	25.0	1122507.0	0.258091	Y
9	IC 240-582961/11	62.5	16.447628	25.0	1149038.0	0.263162	Y



Calibration / Acrolein

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

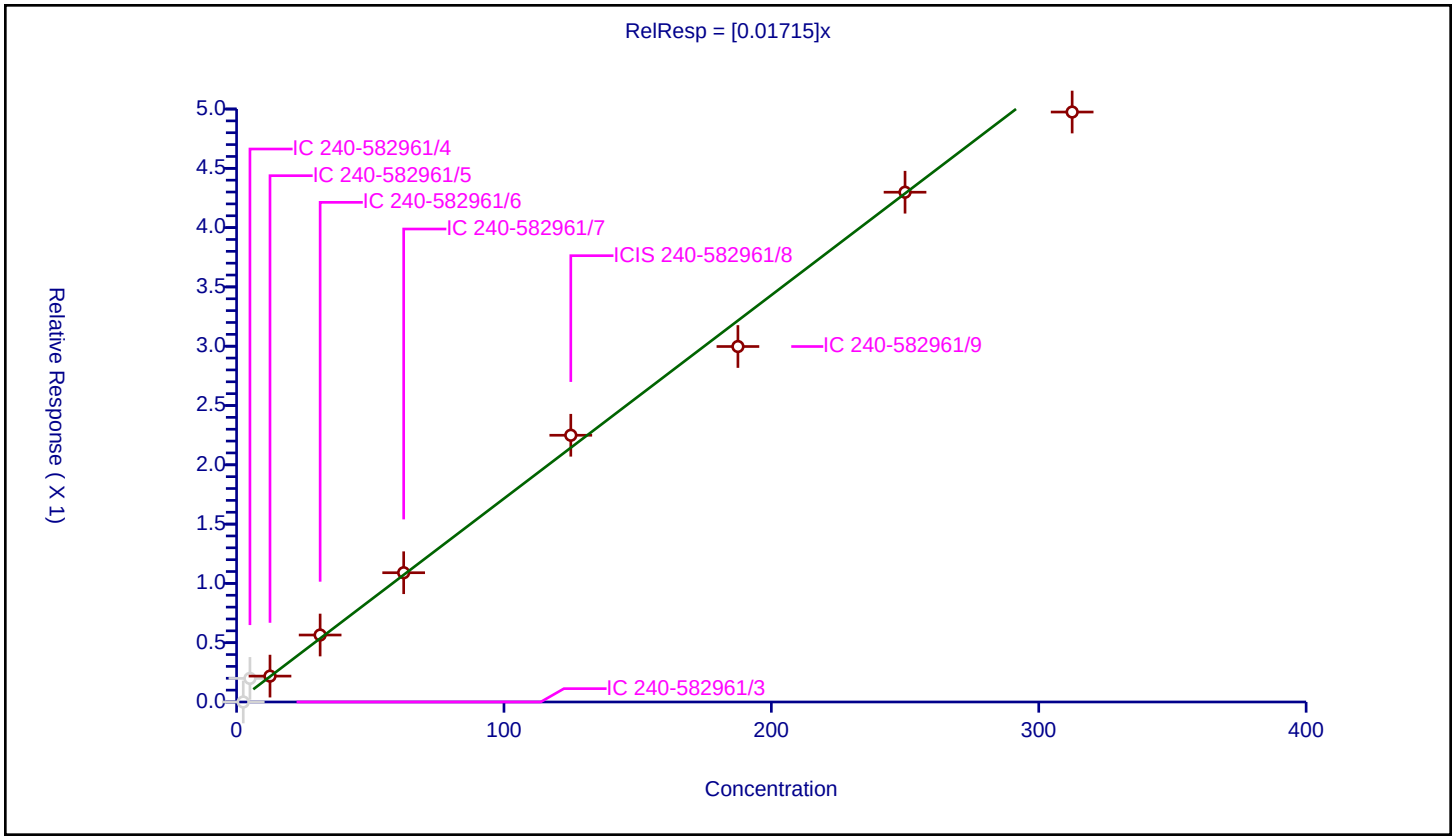
Curve Coefficients

Intercept:	0
Slope:	0.01715

Error Coefficients

Standard Error:	141000
Relative Standard Error:	5.1
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 240-582961/3	2.5	0.0	25.0	1093033.0	0.0	N
2	IC 240-582961/4	5.0	0.198864	25.0	1111185.0	0.039773	N
3	IC 240-582961/5	12.5	0.218276	25.0	1145567.0	0.017462	Y
4	IC 240-582961/6	31.25	0.564783	25.0	1119634.0	0.018073	Y
5	IC 240-582961/7	62.5	1.089993	25.0	918974.0	0.01744	Y
6	ICIS 240-582961/8	125.0	2.249135	25.0	1078248.0	0.017993	Y
7	IC 240-582961/9	187.5	2.997328	25.0	1104884.0	0.015986	Y
8	IC 240-582961/10	250.0	4.298392	25.0	1122507.0	0.017194	Y
9	IC 240-582961/11	312.5	4.974509	25.0	1149038.0	0.015918	Y



Calibration / 1,1-Dichloroethene

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

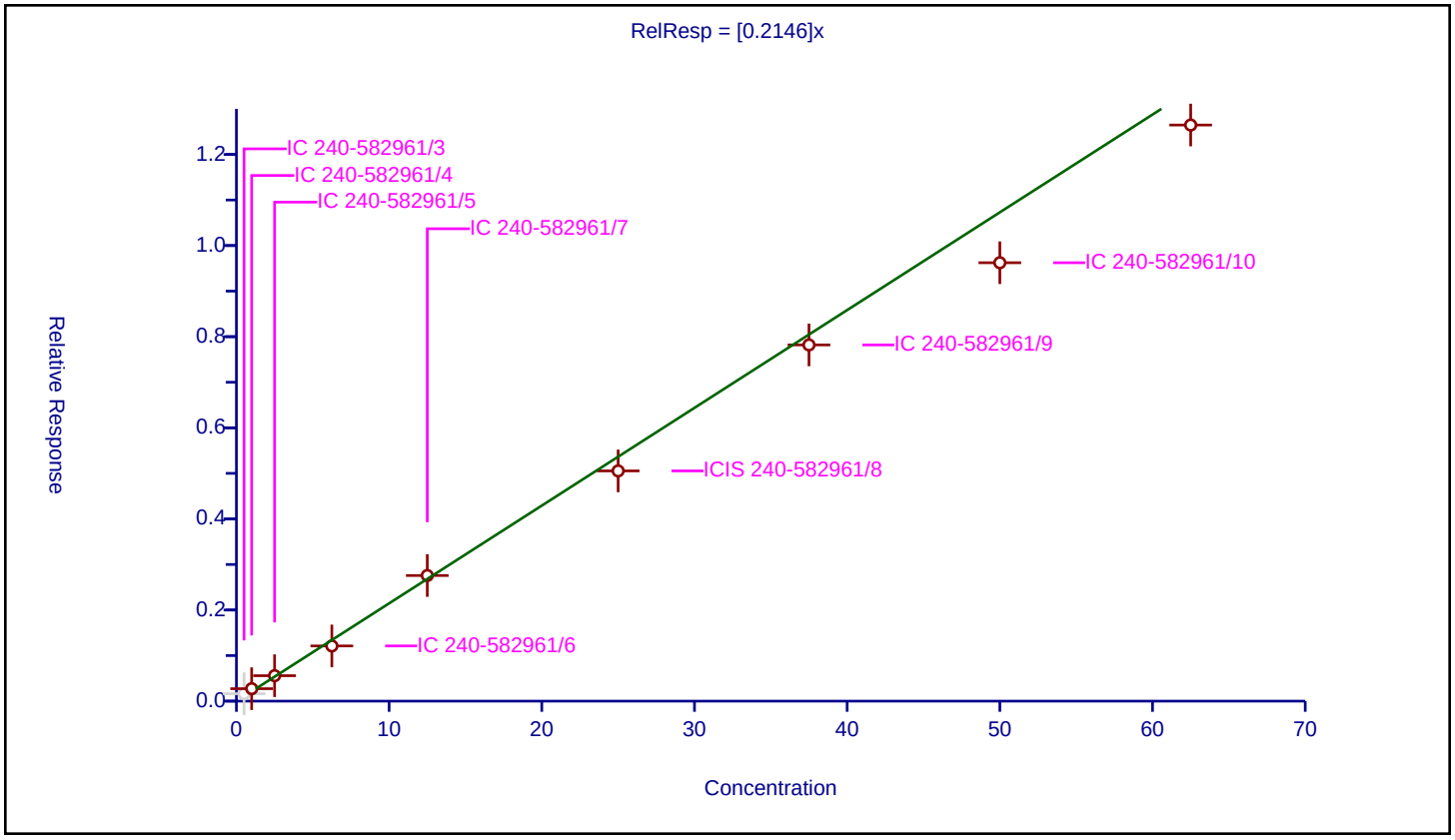
Curve Coefficients

Intercept:	0
Slope:	0.2146

Error Coefficients

Standard Error:	317000
Relative Standard Error:	12.2
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 240-582961/3	0.5	0.163399	25.0	1093033.0	0.326797	N
2	IC 240-582961/4	1.0	0.273357	25.0	1111185.0	0.273357	Y
3	IC 240-582961/5	2.5	0.558566	25.0	1145567.0	0.223426	Y
4	IC 240-582961/6	6.25	1.211512	25.0	1119634.0	0.193842	Y
5	IC 240-582961/7	12.5	2.757668	25.0	918974.0	0.220613	Y
6	ICIS 240-582961/8	25.0	5.05387	25.0	1078248.0	0.202155	Y
7	IC 240-582961/9	37.5	7.818875	25.0	1104884.0	0.208503	Y
8	IC 240-582961/10	50.0	9.623392	25.0	1122507.0	0.192468	Y
9	IC 240-582961/11	62.5	12.645557	25.0	1149038.0	0.202329	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

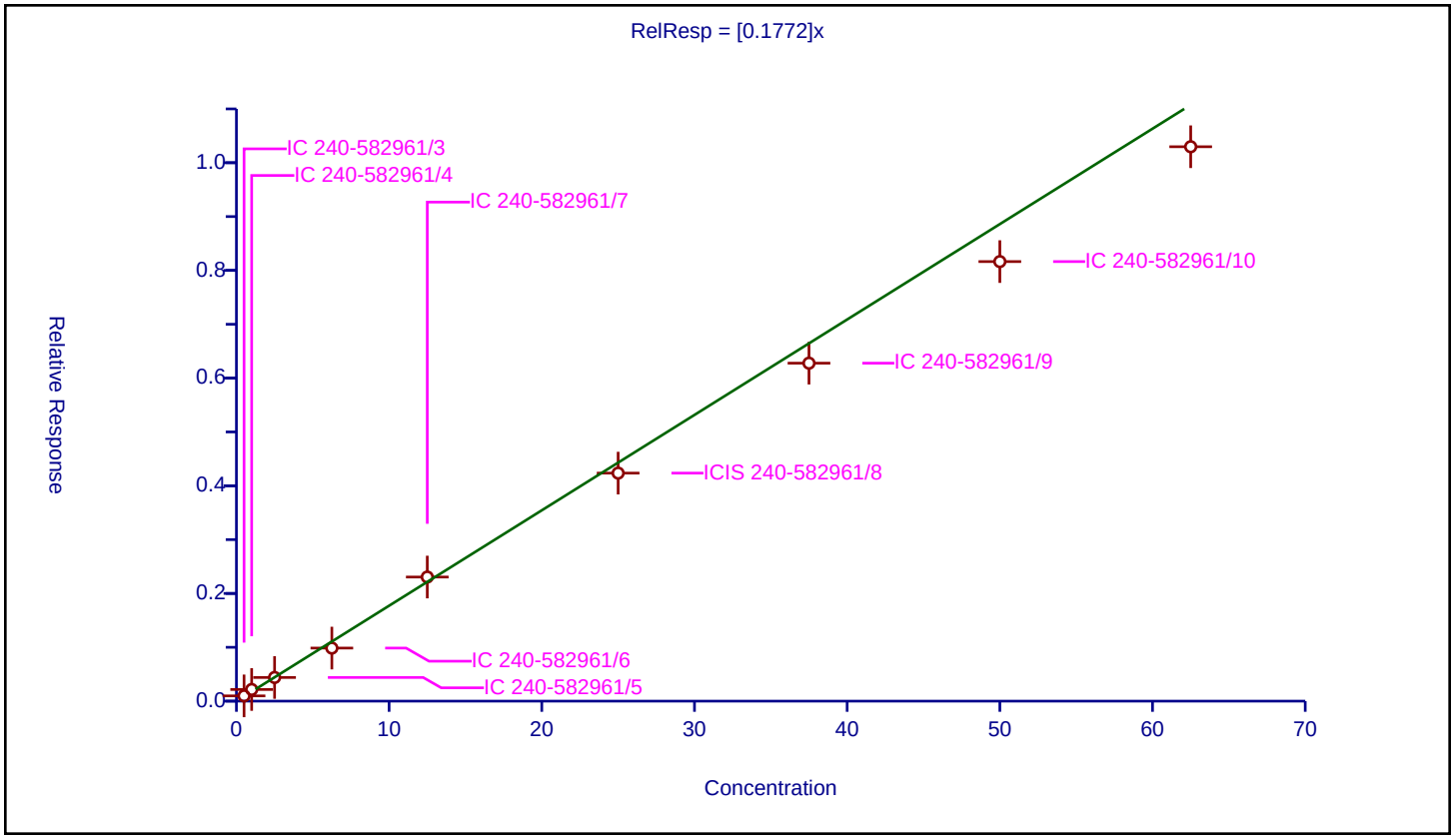
Curve Coefficients

Intercept:	0
Slope:	0.1772

Error Coefficients

Standard Error:	245000
Relative Standard Error:	10.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 240-582961/3	0.5	0.097893	25.0	1093033.0	0.195785	Y
2	IC 240-582961/4	1.0	0.216211	25.0	1111185.0	0.216211	Y
3	IC 240-582961/5	2.5	0.439695	25.0	1145567.0	0.175878	Y
4	IC 240-582961/6	6.25	0.985456	25.0	1119634.0	0.157673	Y
5	IC 240-582961/7	12.5	2.305179	25.0	918974.0	0.184414	Y
6	ICIS 240-582961/8	25.0	4.235412	25.0	1078248.0	0.169416	Y
7	IC 240-582961/9	37.5	6.277243	25.0	1104884.0	0.167393	Y
8	IC 240-582961/10	50.0	8.163891	25.0	1122507.0	0.163278	Y
9	IC 240-582961/11	62.5	10.296874	25.0	1149038.0	0.16475	Y



Calibration / Acetone

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

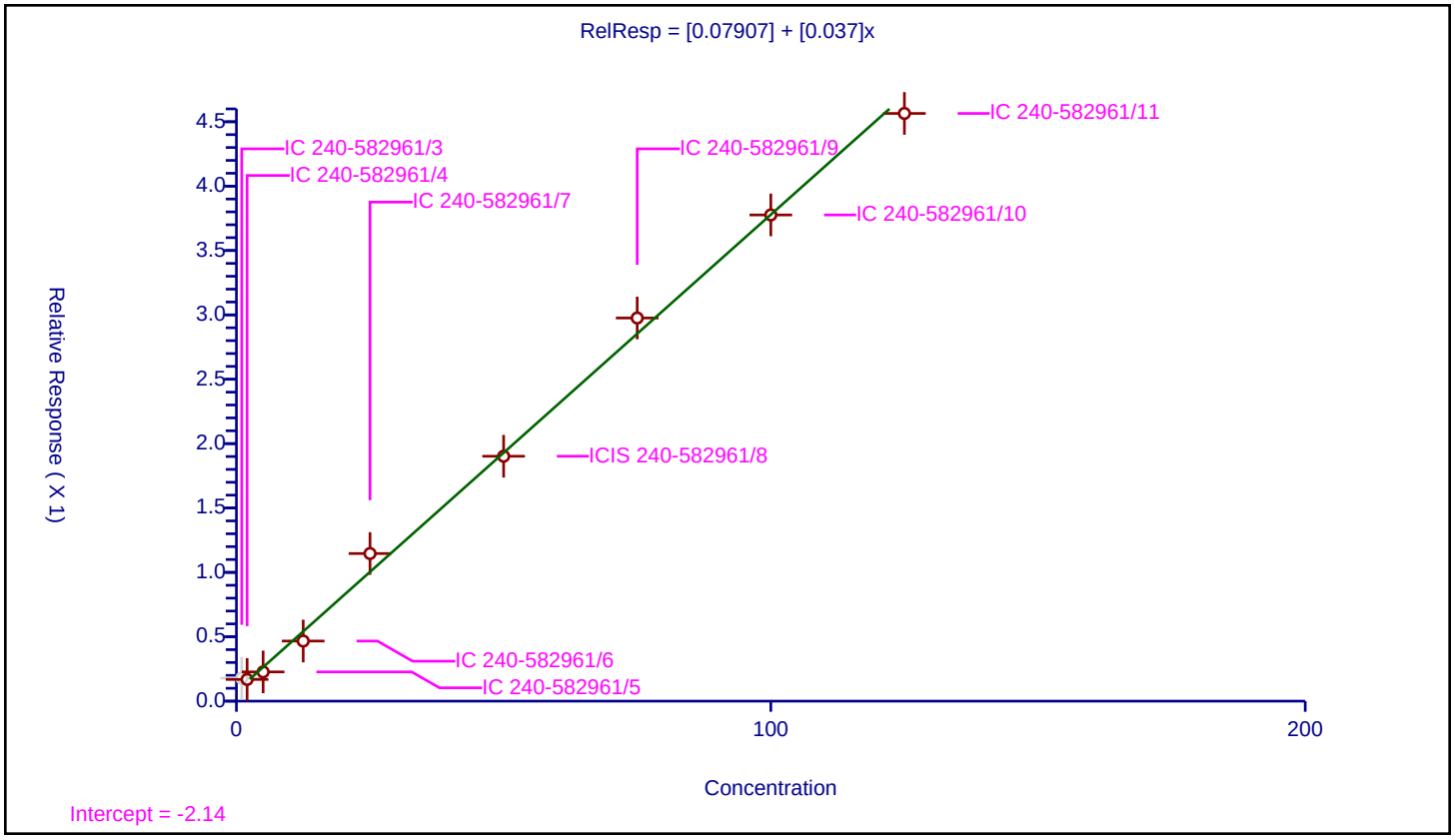
Curve Coefficients

Intercept:	0.07907
Slope:	0.037

Error Coefficients

Standard Error:	129000
Relative Standard Error:	15.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 240-582961/3	1.0	0.178837	25.0	1093033.0	0.178837	N
2	IC 240-582961/4	2.0	0.168536	25.0	1111185.0	0.084268	Y
3	IC 240-582961/5	5.0	0.226962	25.0	1145567.0	0.045392	Y
4	IC 240-582961/6	12.5	0.466782	25.0	1119634.0	0.037343	Y
5	IC 240-582961/7	25.0	1.14655	25.0	918974.0	0.045862	Y
6	ICIS 240-582961/8	50.0	1.902206	25.0	1078248.0	0.038044	Y
7	IC 240-582961/9	75.0	2.975855	25.0	1104884.0	0.039678	Y
8	IC 240-582961/10	100.0	3.77619	25.0	1122507.0	0.037762	Y
9	IC 240-582961/11	125.0	4.564645	25.0	1149038.0	0.036517	Y



Calibration / Iodomethane

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

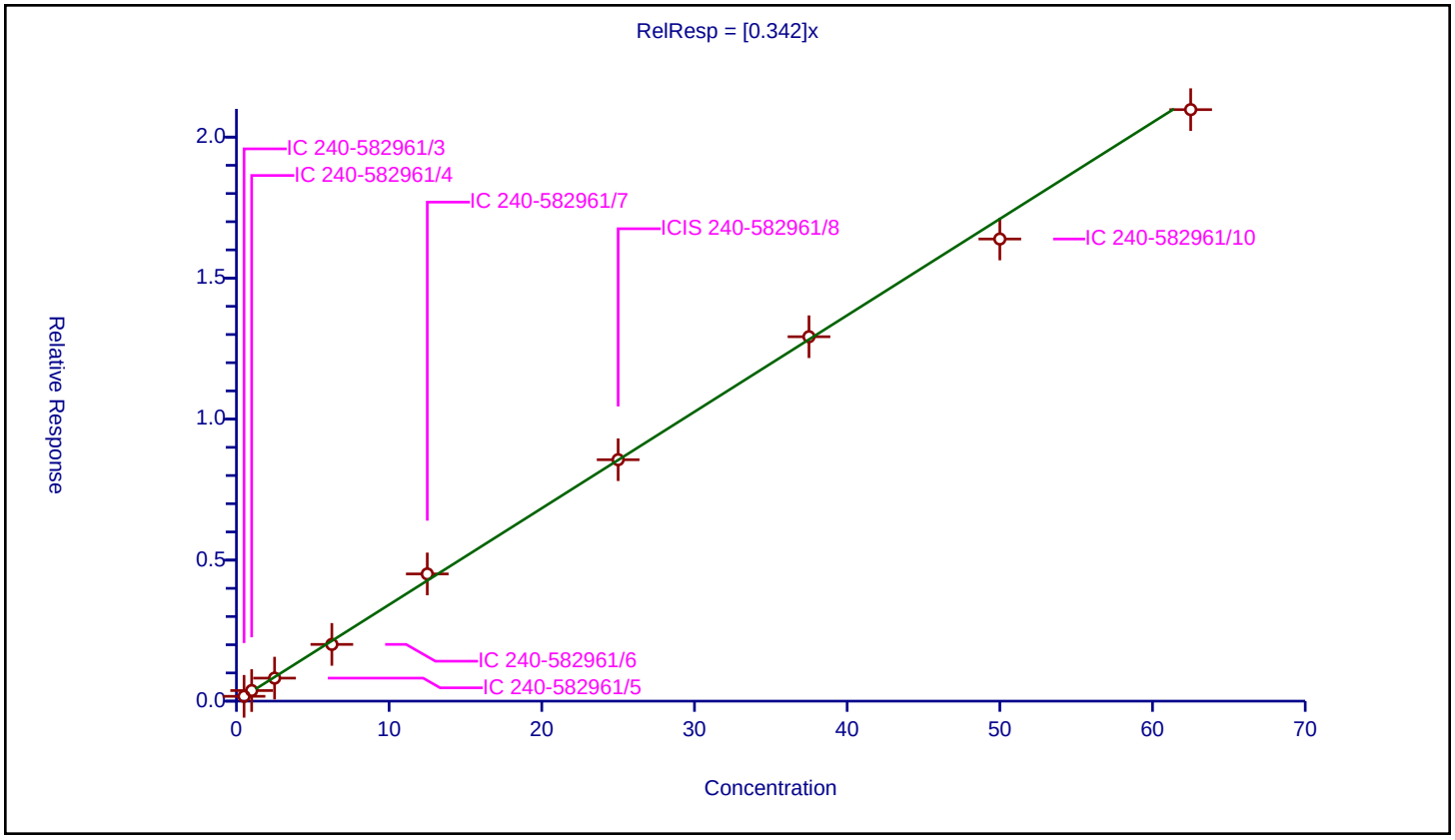
Curve Coefficients

Intercept:	0
Slope:	0.342

Error Coefficients

Standard Error:	496000
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 240-582961/3	0.5	0.171541	25.0	1093033.0	0.343082	Y
2	IC 240-582961/4	1.0	0.375005	25.0	1111185.0	0.375005	Y
3	IC 240-582961/5	2.5	0.816648	25.0	1145567.0	0.326659	Y
4	IC 240-582961/6	6.25	2.011974	25.0	1119634.0	0.321916	Y
5	IC 240-582961/7	12.5	4.510628	25.0	918974.0	0.36085	Y
6	ICIS 240-582961/8	25.0	8.560809	25.0	1078248.0	0.342432	Y
7	IC 240-582961/9	37.5	12.921628	25.0	1104884.0	0.344577	Y
8	IC 240-582961/10	50.0	16.386201	25.0	1122507.0	0.327724	Y
9	IC 240-582961/11	62.5	20.97398	25.0	1149038.0	0.335584	Y



Calibration / Carbon disulfide

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

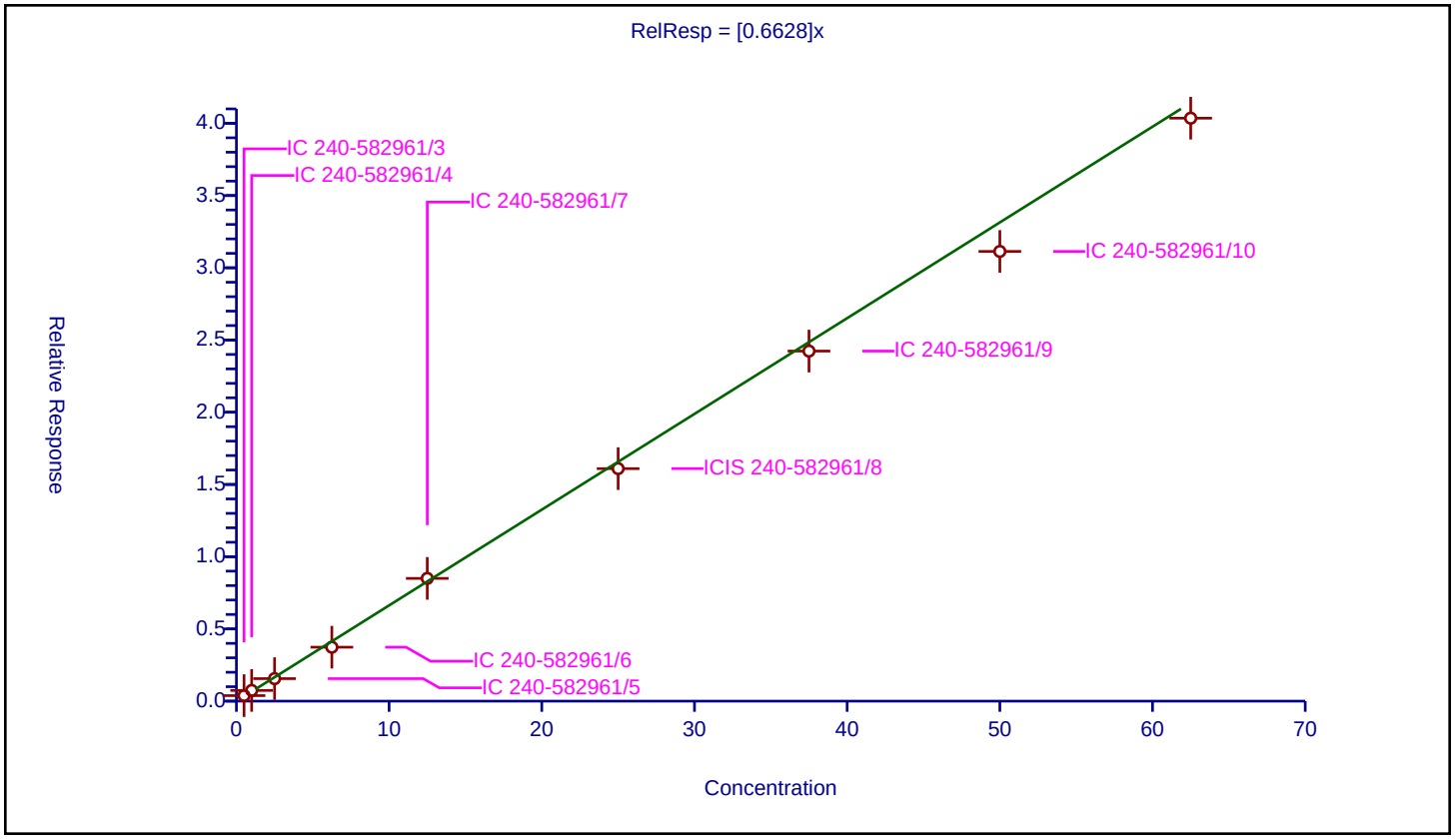
Curve Coefficients

Intercept:	0
Slope:	0.6628

Error Coefficients

Standard Error:	946000
Relative Standard Error:	8.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 240-582961/3	0.5	0.381713	25.0	1093033.0	0.763426	Y
2	IC 240-582961/4	1.0	0.742316	25.0	1111185.0	0.742316	Y
3	IC 240-582961/5	2.5	1.55866	25.0	1145567.0	0.623464	Y
4	IC 240-582961/6	6.25	3.734234	25.0	1119634.0	0.597477	Y
5	IC 240-582961/7	12.5	8.497983	25.0	918974.0	0.679839	Y
6	ICIS 240-582961/8	25.0	16.097479	25.0	1078248.0	0.643899	Y
7	IC 240-582961/9	37.5	24.23449	25.0	1104884.0	0.646253	Y
8	IC 240-582961/10	50.0	31.131743	25.0	1122507.0	0.622635	Y
9	IC 240-582961/11	62.5	40.356563	25.0	1149038.0	0.645705	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

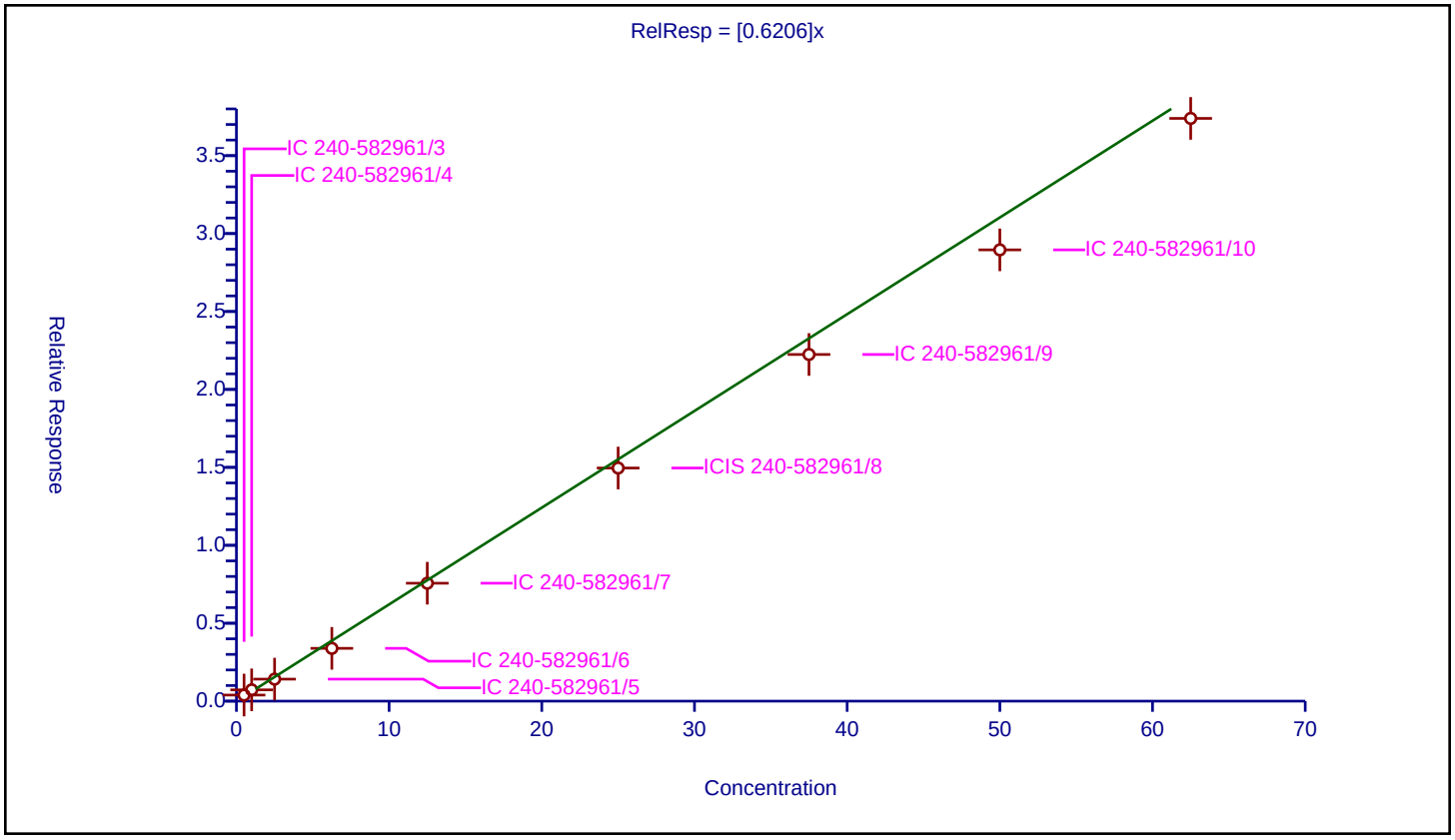
Curve Coefficients

Intercept:	0
Slope:	0.6206

Error Coefficients

Standard Error:	875000
Relative Standard Error:	12.6
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.977

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 240-582961/3	0.5	0.390222	25.0	1093033.0	0.780443	Y
2	IC 240-582961/4	1.0	0.724204	25.0	1111185.0	0.724204	Y
3	IC 240-582961/5	2.5	1.412357	25.0	1145567.0	0.564943	Y
4	IC 240-582961/6	6.25	3.38767	25.0	1119634.0	0.542027	Y
5	IC 240-582961/7	12.5	7.566781	25.0	918974.0	0.605342	Y
6	ICIS 240-582961/8	25.0	14.956694	25.0	1078248.0	0.598268	Y
7	IC 240-582961/9	37.5	22.241837	25.0	1104884.0	0.593116	Y
8	IC 240-582961/10	50.0	28.954986	25.0	1122507.0	0.5791	Y
9	IC 240-582961/11	62.5	37.389864	25.0	1149038.0	0.598238	Y



Calibration / Methyl acetate

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

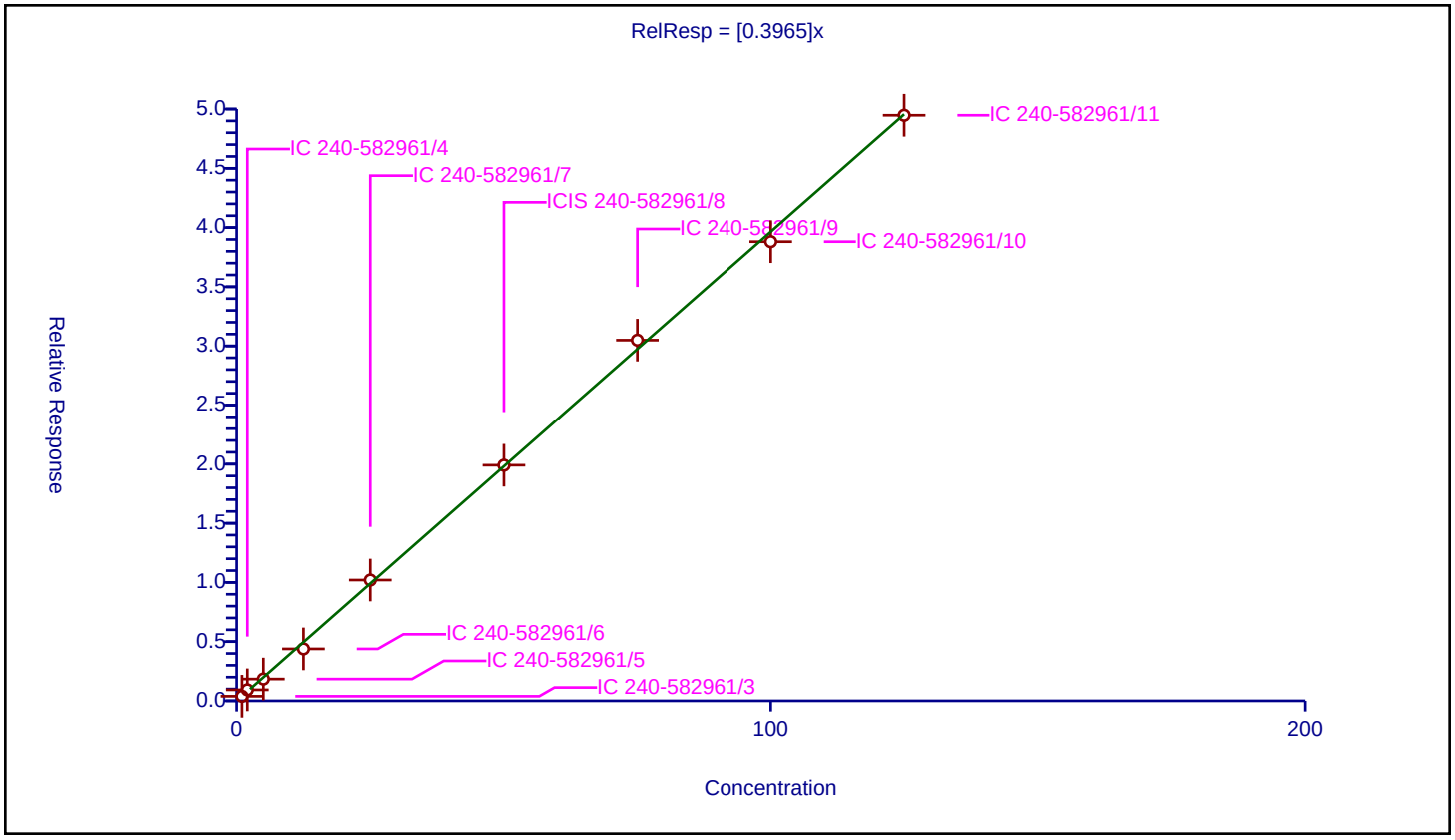
Curve Coefficients

Intercept:	0
Slope:	0.3965

Error Coefficients

Standard Error:	1170000
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 240-582961/3	1.0	0.388369	25.0	1093033.0	0.388369	Y
2	IC 240-582961/4	2.0	0.928716	25.0	1111185.0	0.464358	Y
3	IC 240-582961/5	5.0	1.840093	25.0	1145567.0	0.368019	Y
4	IC 240-582961/6	12.5	4.385339	25.0	1119634.0	0.350827	Y
5	IC 240-582961/7	25.0	10.202547	25.0	918974.0	0.408102	Y
6	ICIS 240-582961/8	50.0	19.910679	25.0	1078248.0	0.398214	Y
7	IC 240-582961/9	75.0	30.487793	25.0	1104884.0	0.406504	Y
8	IC 240-582961/10	100.0	38.812007	25.0	1122507.0	0.38812	Y
9	IC 240-582961/11	125.0	49.473212	25.0	1149038.0	0.395786	Y



Calibration / Methylene Chloride

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

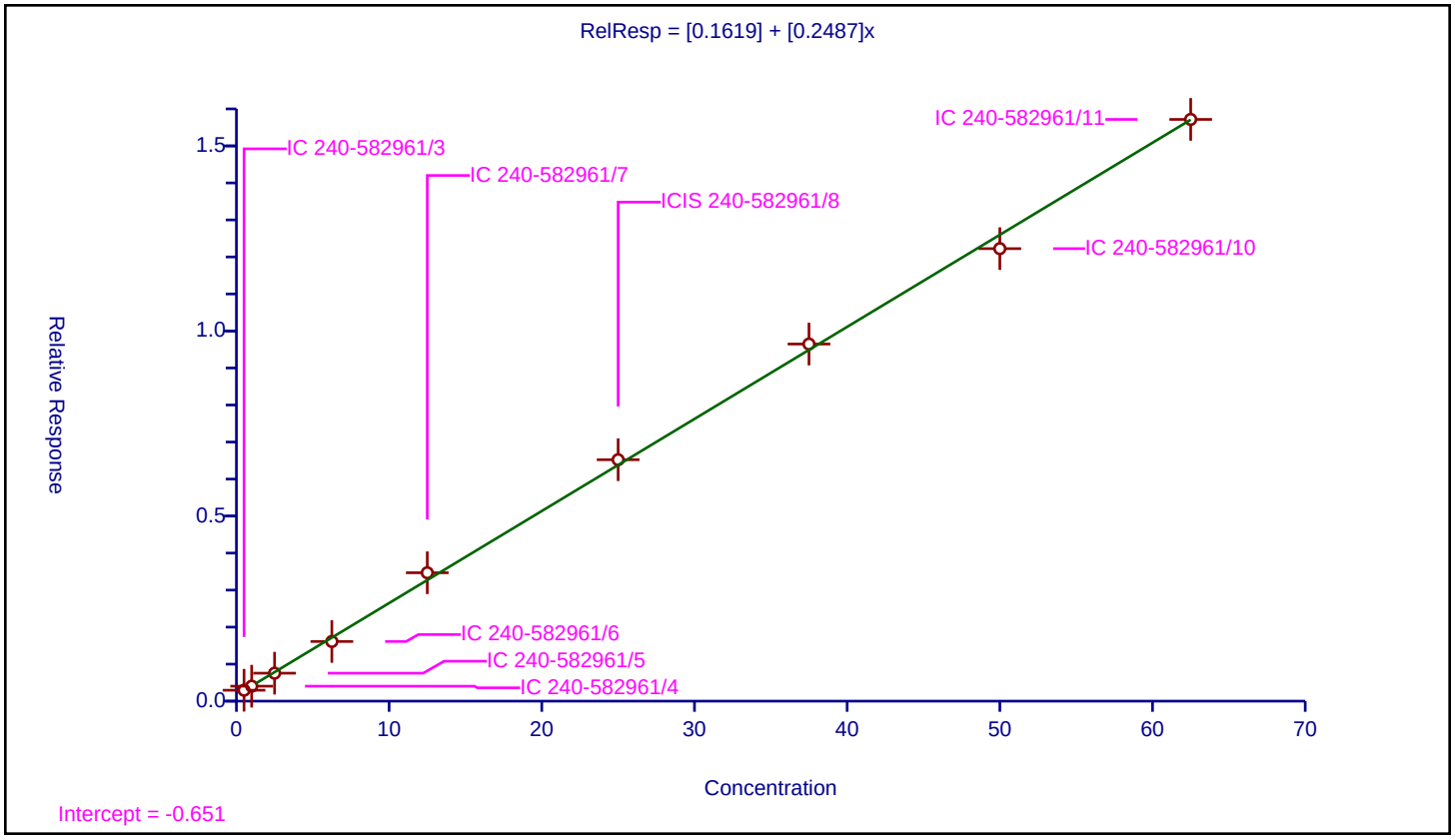
Curve Coefficients

Intercept:	0.1619
Slope:	0.2487

Error Coefficients

Standard Error:	398000
Relative Standard Error:	5.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 240-582961/3	0.5	0.294456	25.0	1093033.0	0.588912	Y
2	IC 240-582961/4	1.0	0.404118	25.0	1111185.0	0.404118	Y
3	IC 240-582961/5	2.5	0.755063	25.0	1145567.0	0.302025	Y
4	IC 240-582961/6	6.25	1.611196	25.0	1119634.0	0.257791	Y
5	IC 240-582961/7	12.5	3.468216	25.0	918974.0	0.277457	Y
6	ICIS 240-582961/8	25.0	6.522502	25.0	1078248.0	0.2609	Y
7	IC 240-582961/9	37.5	9.646918	25.0	1104884.0	0.257251	Y
8	IC 240-582961/10	50.0	12.224534	25.0	1122507.0	0.244491	Y
9	IC 240-582961/11	62.5	15.715886	25.0	1149038.0	0.251454	Y



Calibration / 2-Methyl-2-propanol

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

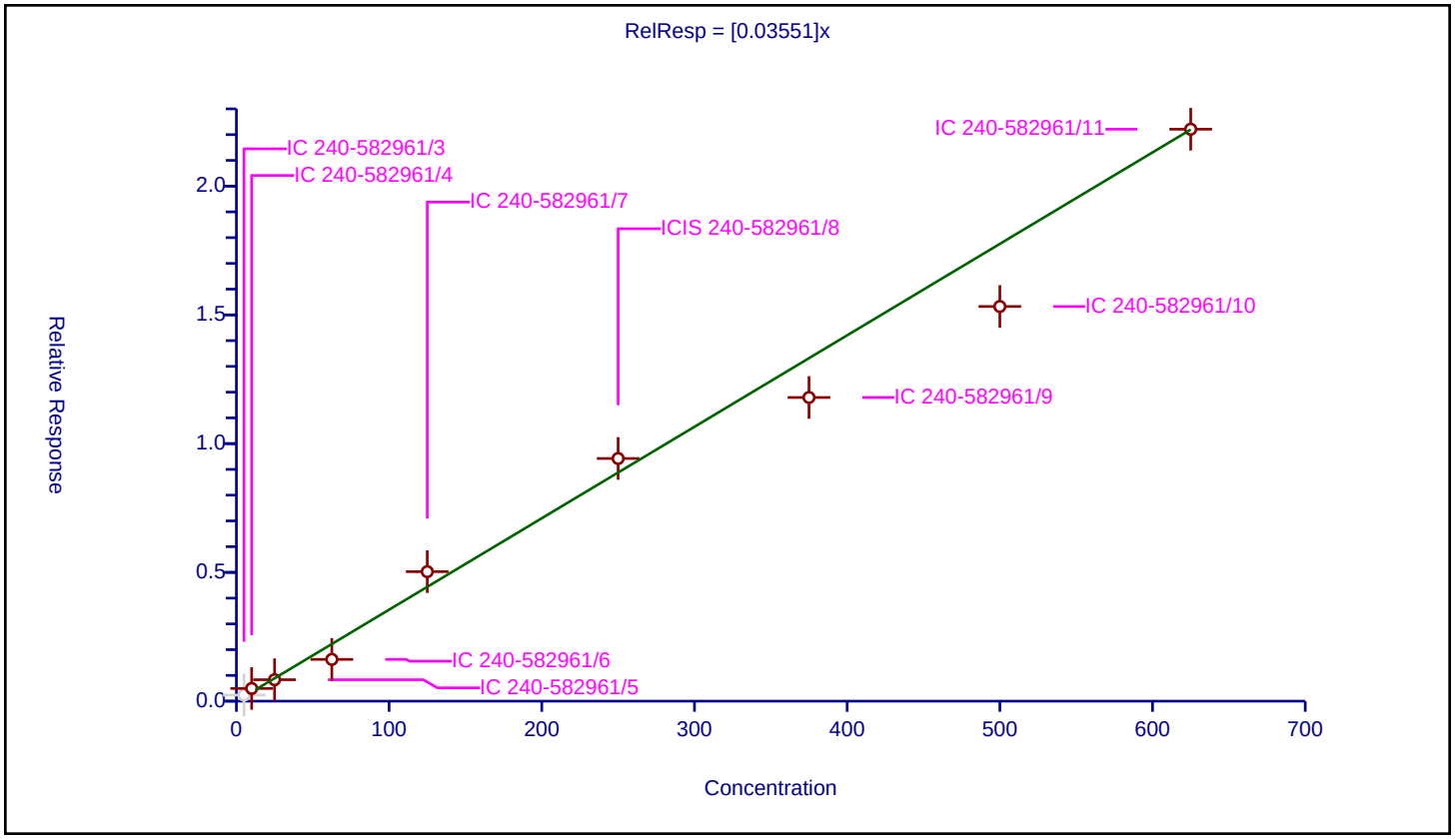
Curve Coefficients

Intercept:	0
Slope:	0.03551

Error Coefficients

Standard Error:	534000
Relative Standard Error:	20.0
Correlation Coefficient:	0.985
Coefficient of Determination (Adjusted):	0.940

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 240-582961/3	5.0	0.237276	25.0	1093033.0	0.047455	N
2	IC 240-582961/4	10.0	0.493122	25.0	1111185.0	0.049312	Y
3	IC 240-582961/5	25.0	0.832579	25.0	1145567.0	0.033303	Y
4	IC 240-582961/6	62.5	1.621579	25.0	1119634.0	0.025945	Y
5	IC 240-582961/7	125.0	5.028543	25.0	918974.0	0.040228	Y
6	ICIS 240-582961/8	250.0	9.423551	25.0	1078248.0	0.037694	Y
7	IC 240-582961/9	375.0	11.79298	25.0	1104884.0	0.031448	Y
8	IC 240-582961/10	500.0	15.325896	25.0	1122507.0	0.030652	Y
9	IC 240-582961/11	625.0	22.209426	25.0	1149038.0	0.035535	Y



Calibration / Acrylonitrile

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

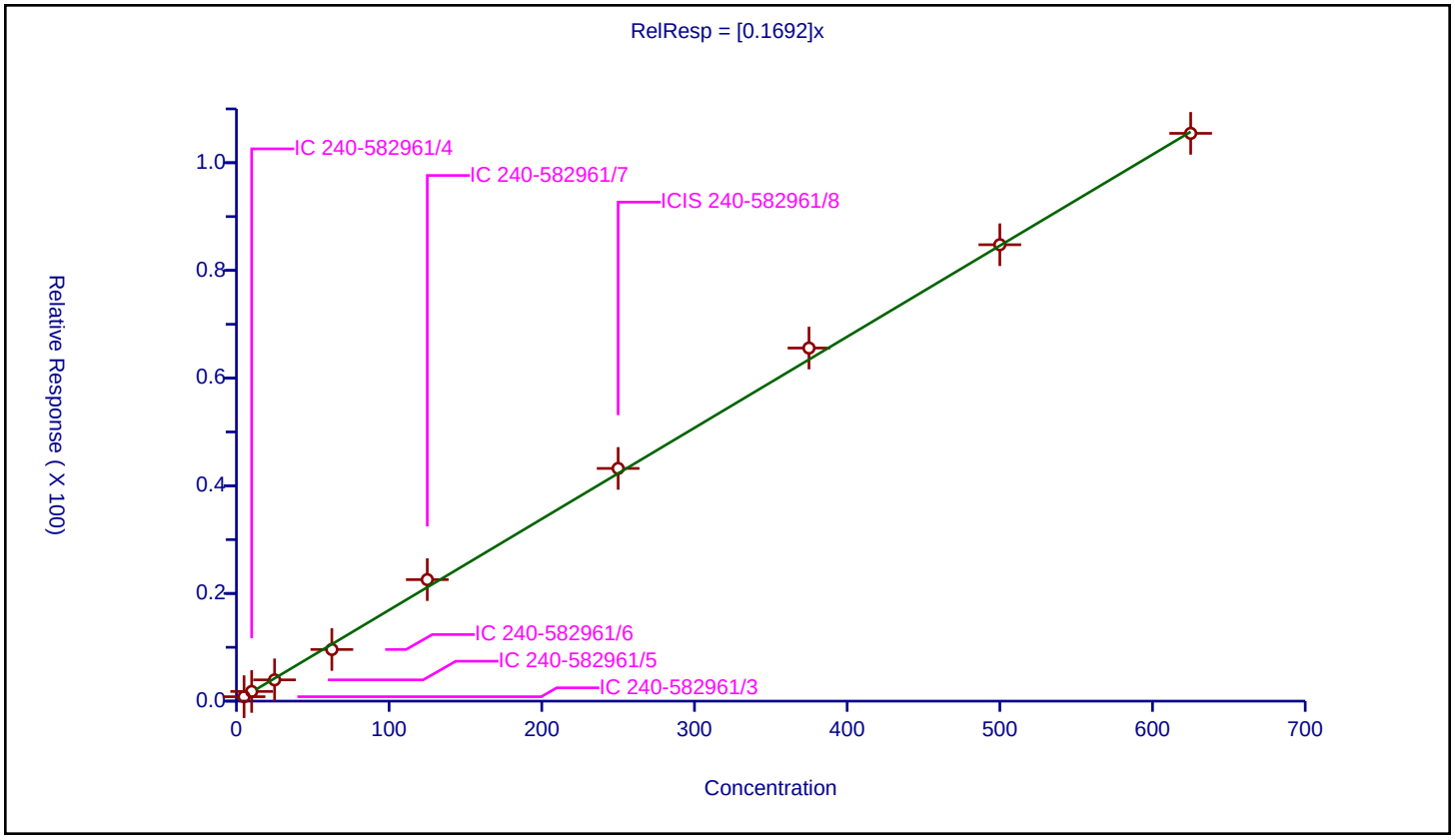
Curve Coefficients

Intercept:	0
Slope:	0.1692

Error Coefficients

Standard Error:	2520000
Relative Standard Error:	5.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 240-582961/3	5.0	0.82541	25.0	1093033.0	0.165082	Y
2	IC 240-582961/4	10.0	1.795943	25.0	1111185.0	0.179594	Y
3	IC 240-582961/5	25.0	3.94894	25.0	1145567.0	0.157958	Y
4	IC 240-582961/6	62.5	9.593537	25.0	1119634.0	0.153497	Y
5	IC 240-582961/7	125.0	22.570905	25.0	918974.0	0.180567	Y
6	ICIS 240-582961/8	250.0	43.224425	25.0	1078248.0	0.172898	Y
7	IC 240-582961/9	375.0	65.580436	25.0	1104884.0	0.174881	Y
8	IC 240-582961/10	500.0	84.769828	25.0	1122507.0	0.16954	Y
9	IC 240-582961/11	625.0	105.457913	25.0	1149038.0	0.168733	Y



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

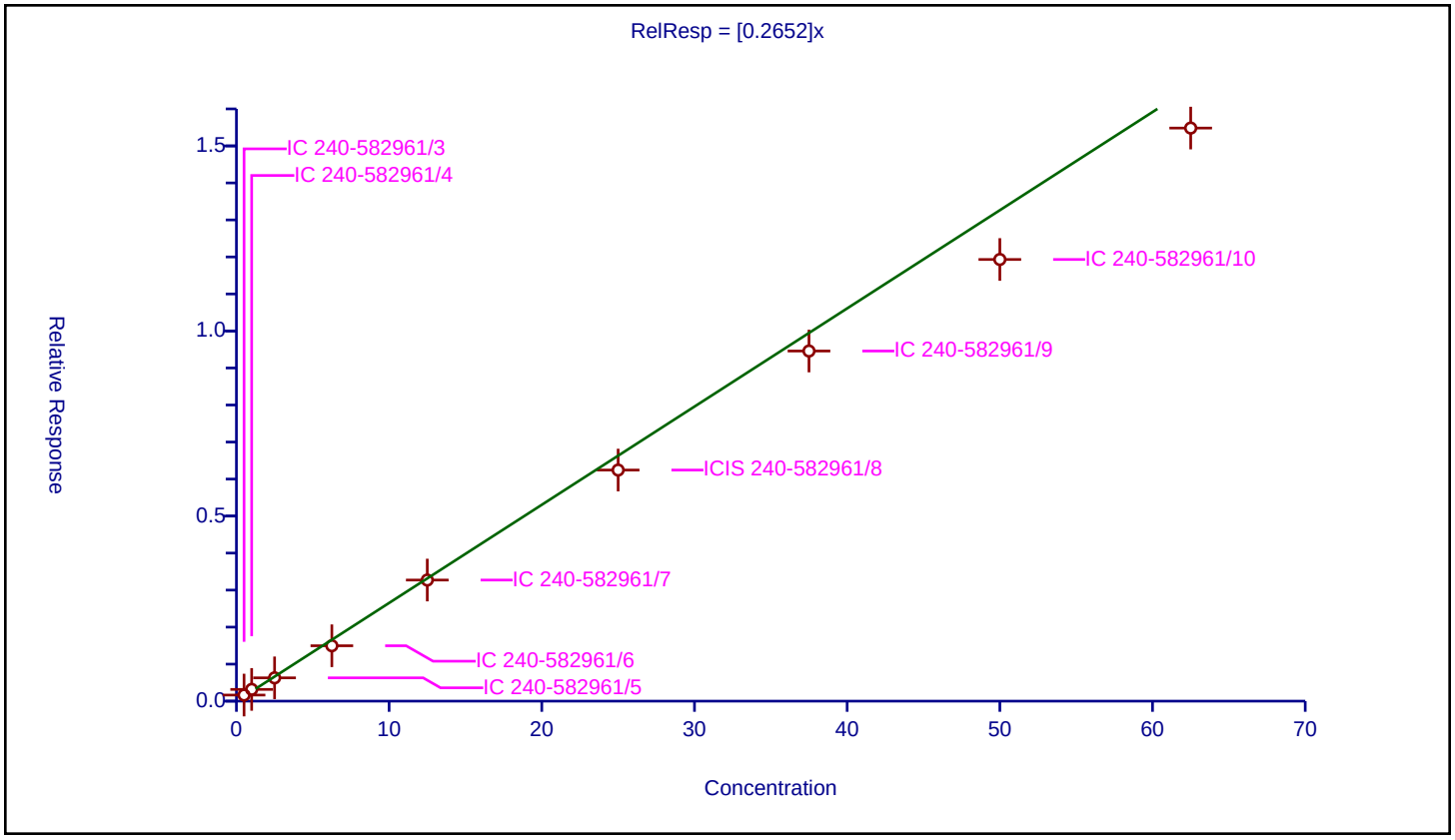
Curve Coefficients

Intercept:	0
Slope:	0.2652

Error Coefficients

Standard Error:	364000
Relative Standard Error:	12.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.976

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 240-582961/3	0.5	0.164496	25.0	1093033.0	0.328993	Y
2	IC 240-582961/4	1.0	0.317161	25.0	1111185.0	0.317161	Y
3	IC 240-582961/5	2.5	0.629252	25.0	1145567.0	0.251701	Y
4	IC 240-582961/6	6.25	1.496382	25.0	1119634.0	0.239421	Y
5	IC 240-582961/7	12.5	3.271094	25.0	918974.0	0.261687	Y
6	ICIS 240-582961/8	25.0	6.243091	25.0	1078248.0	0.249724	Y
7	IC 240-582961/9	37.5	9.458482	25.0	1104884.0	0.252226	Y
8	IC 240-582961/10	50.0	11.931485	25.0	1122507.0	0.23863	Y
9	IC 240-582961/11	62.5	15.481581	25.0	1149038.0	0.247705	Y



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

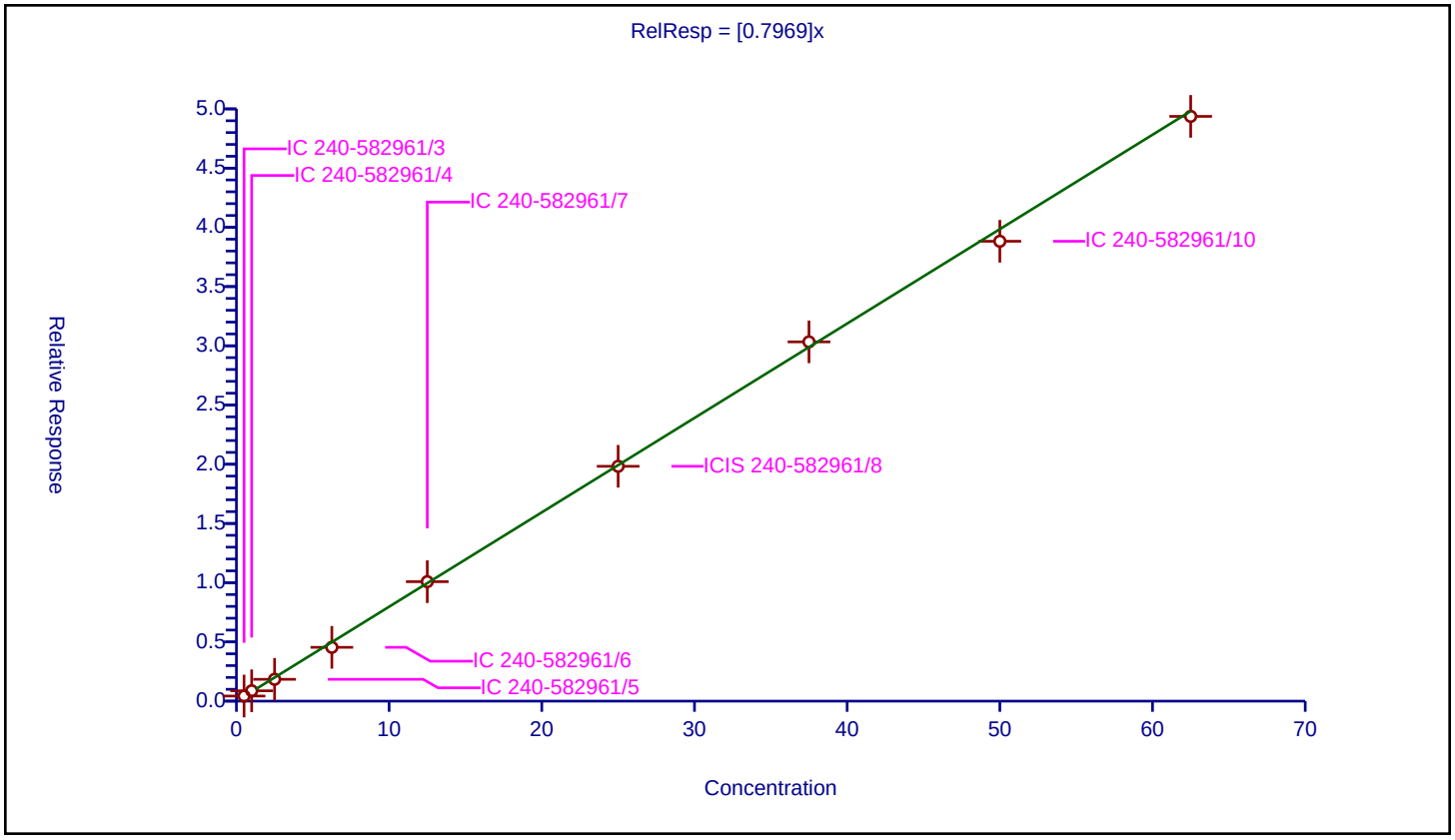
Curve Coefficients

Intercept:	0
Slope:	0.7969

Error Coefficients

Standard Error:	1170000
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 240-582961/3	0.5	0.429653	25.0	1093033.0	0.859306	Y
2	IC 240-582961/4	1.0	0.874044	25.0	1111185.0	0.874044	Y
3	IC 240-582961/5	2.5	1.842559	25.0	1145567.0	0.737024	Y
4	IC 240-582961/6	6.25	4.542913	25.0	1119634.0	0.726866	Y
5	IC 240-582961/7	12.5	10.086004	25.0	918974.0	0.80688	Y
6	ICIS 240-582961/8	25.0	19.82619	25.0	1078248.0	0.793048	Y
7	IC 240-582961/9	37.5	30.331985	25.0	1104884.0	0.808853	Y
8	IC 240-582961/10	50.0	38.824145	25.0	1122507.0	0.776483	Y
9	IC 240-582961/11	62.5	49.369124	25.0	1149038.0	0.789906	Y



Calibration / Hexane

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

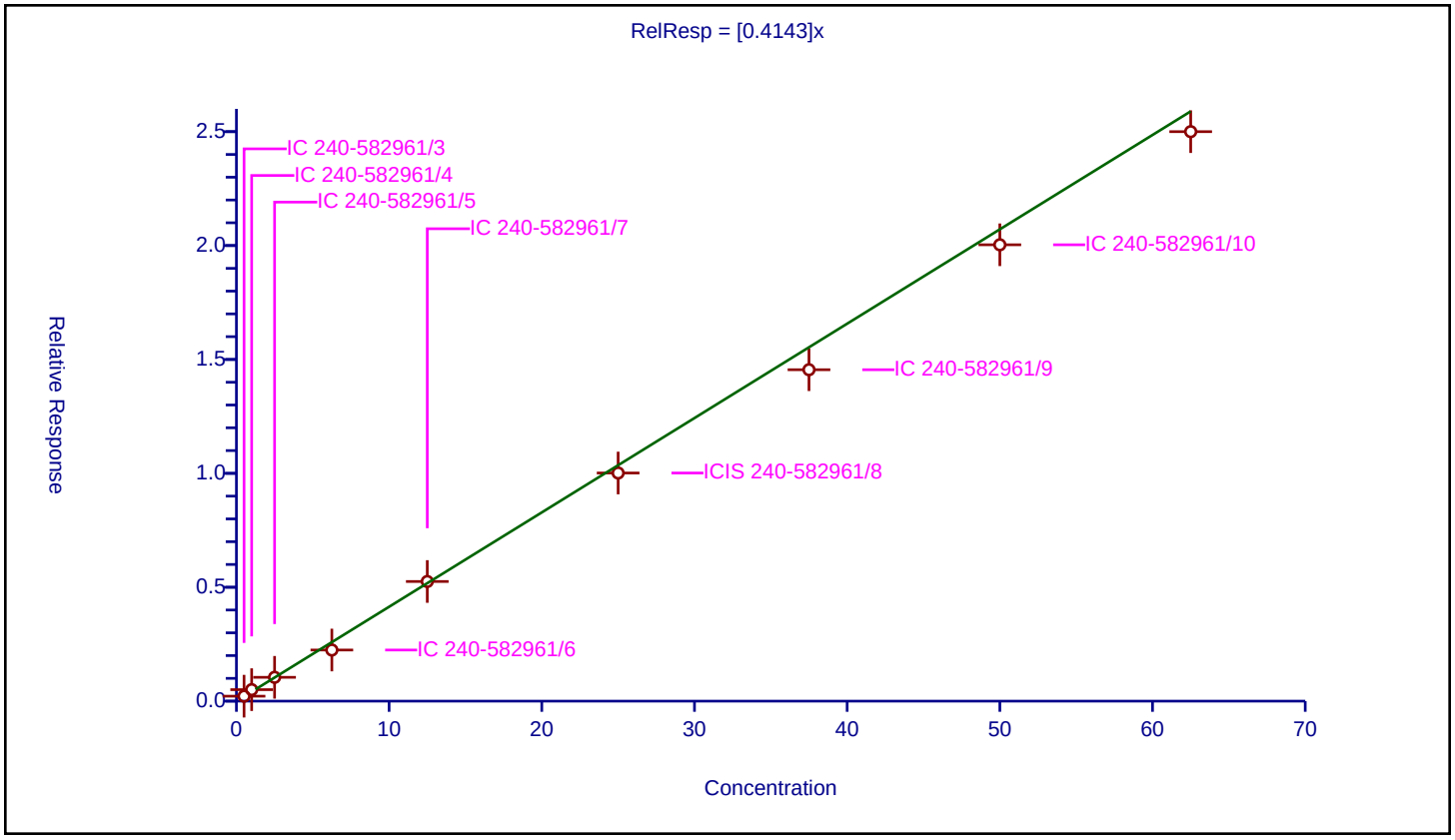
Curve Coefficients

Intercept:	0
Slope:	0.4143

Error Coefficients

Standard Error:	589000
Relative Standard Error:	9.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 240-582961/3	0.5	0.21852	25.0	1093033.0	0.437041	Y
2	IC 240-582961/4	1.0	0.504124	25.0	1111185.0	0.504124	Y
3	IC 240-582961/5	2.5	1.046229	25.0	1145567.0	0.418491	Y
4	IC 240-582961/6	6.25	2.244885	25.0	1119634.0	0.359182	Y
5	IC 240-582961/7	12.5	5.252597	25.0	918974.0	0.420208	Y
6	ICIS 240-582961/8	25.0	10.014811	25.0	1078248.0	0.400592	Y
7	IC 240-582961/9	37.5	14.549061	25.0	1104884.0	0.387975	Y
8	IC 240-582961/10	50.0	20.03404	25.0	1122507.0	0.400681	Y
9	IC 240-582961/11	62.5	25.000783	25.0	1149038.0	0.400013	Y



Calibration / 1,1-Dichloroethane

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

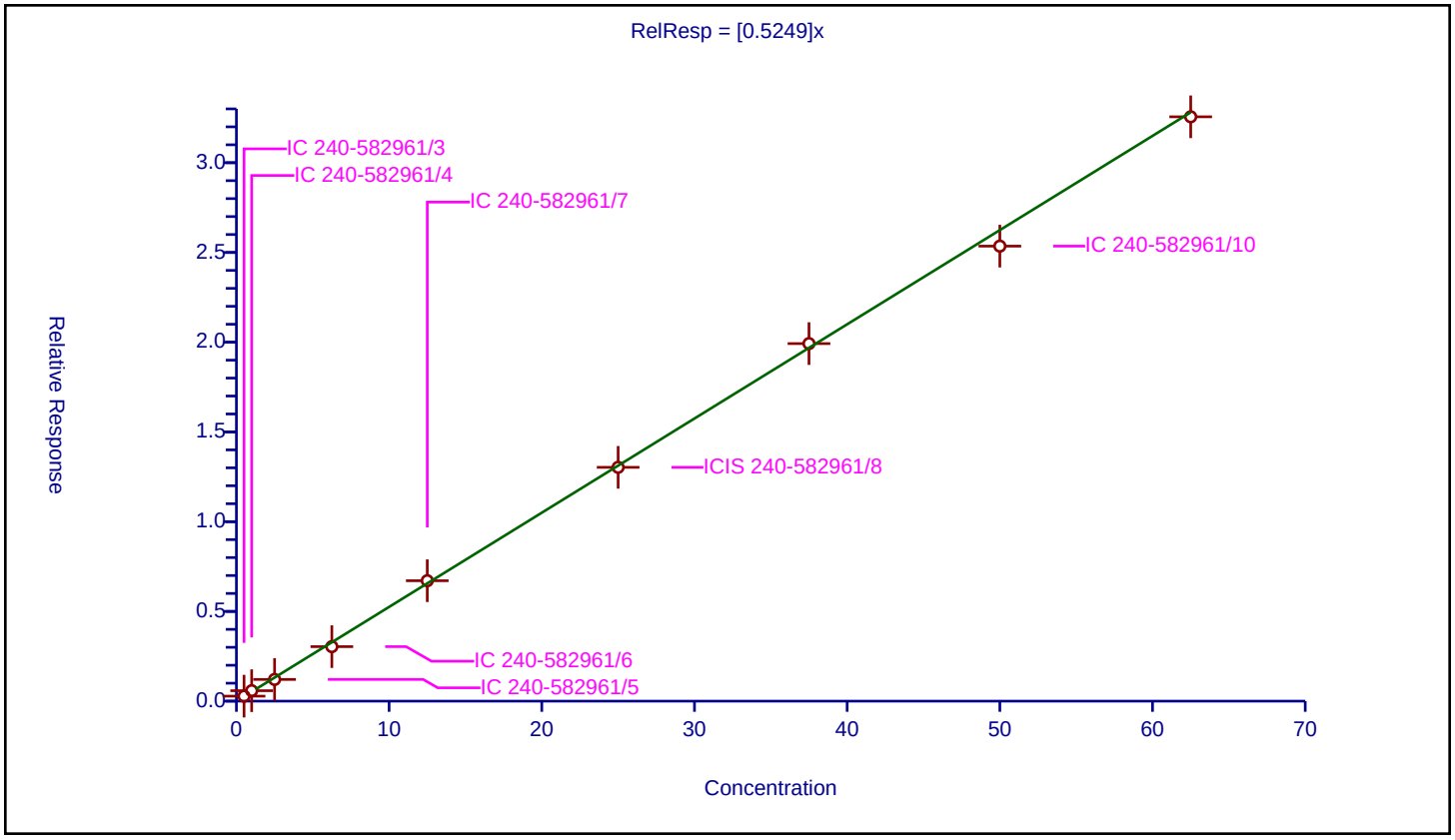
Curve Coefficients

Intercept:	0
Slope:	0.5249

Error Coefficients

Standard Error:	767000
Relative Standard Error:	6.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 240-582961/3	0.5	0.277691	25.0	1093033.0	0.555381	Y
2	IC 240-582961/4	1.0	0.582306	25.0	1111185.0	0.582306	Y
3	IC 240-582961/5	2.5	1.208725	25.0	1145567.0	0.48349	Y
4	IC 240-582961/6	6.25	3.036707	25.0	1119634.0	0.485873	Y
5	IC 240-582961/7	12.5	6.710582	25.0	918974.0	0.536847	Y
6	ICIS 240-582961/8	25.0	13.027291	25.0	1078248.0	0.521092	Y
7	IC 240-582961/9	37.5	19.922023	25.0	1104884.0	0.531254	Y
8	IC 240-582961/10	50.0	25.352604	25.0	1122507.0	0.507052	Y
9	IC 240-582961/11	62.5	32.55854	25.0	1149038.0	0.520937	Y



Calibration / Vinyl acetate

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

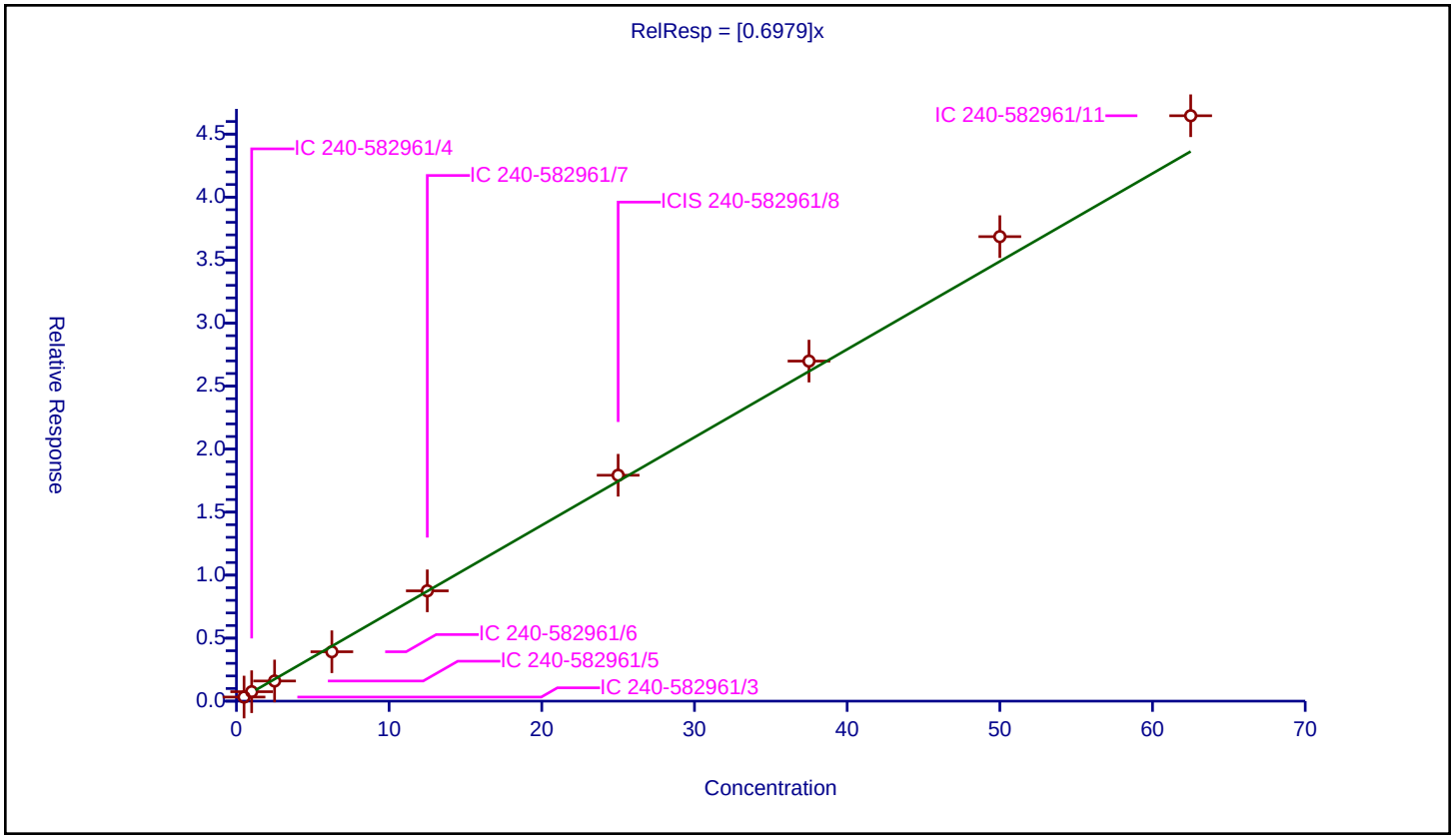
Curve Coefficients

Intercept:	0
Slope:	0.6979

Error Coefficients

Standard Error:	1090000
Relative Standard Error:	6.8
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 240-582961/3	0.5	0.324304	25.0	1093033.0	0.648608	Y
2	IC 240-582961/4	1.0	0.748863	25.0	1111185.0	0.748863	Y
3	IC 240-582961/5	2.5	1.598641	25.0	1145567.0	0.639456	Y
4	IC 240-582961/6	6.25	3.918758	25.0	1119634.0	0.627001	Y
5	IC 240-582961/7	12.5	8.753213	25.0	918974.0	0.700257	Y
6	ICIS 240-582961/8	25.0	17.927207	25.0	1078248.0	0.717088	Y
7	IC 240-582961/9	37.5	26.985729	25.0	1104884.0	0.719619	Y
8	IC 240-582961/10	50.0	36.863289	25.0	1122507.0	0.737266	Y
9	IC 240-582961/11	62.5	46.457341	25.0	1149038.0	0.743317	Y



Calibration / 2,2-Dichloropropane

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

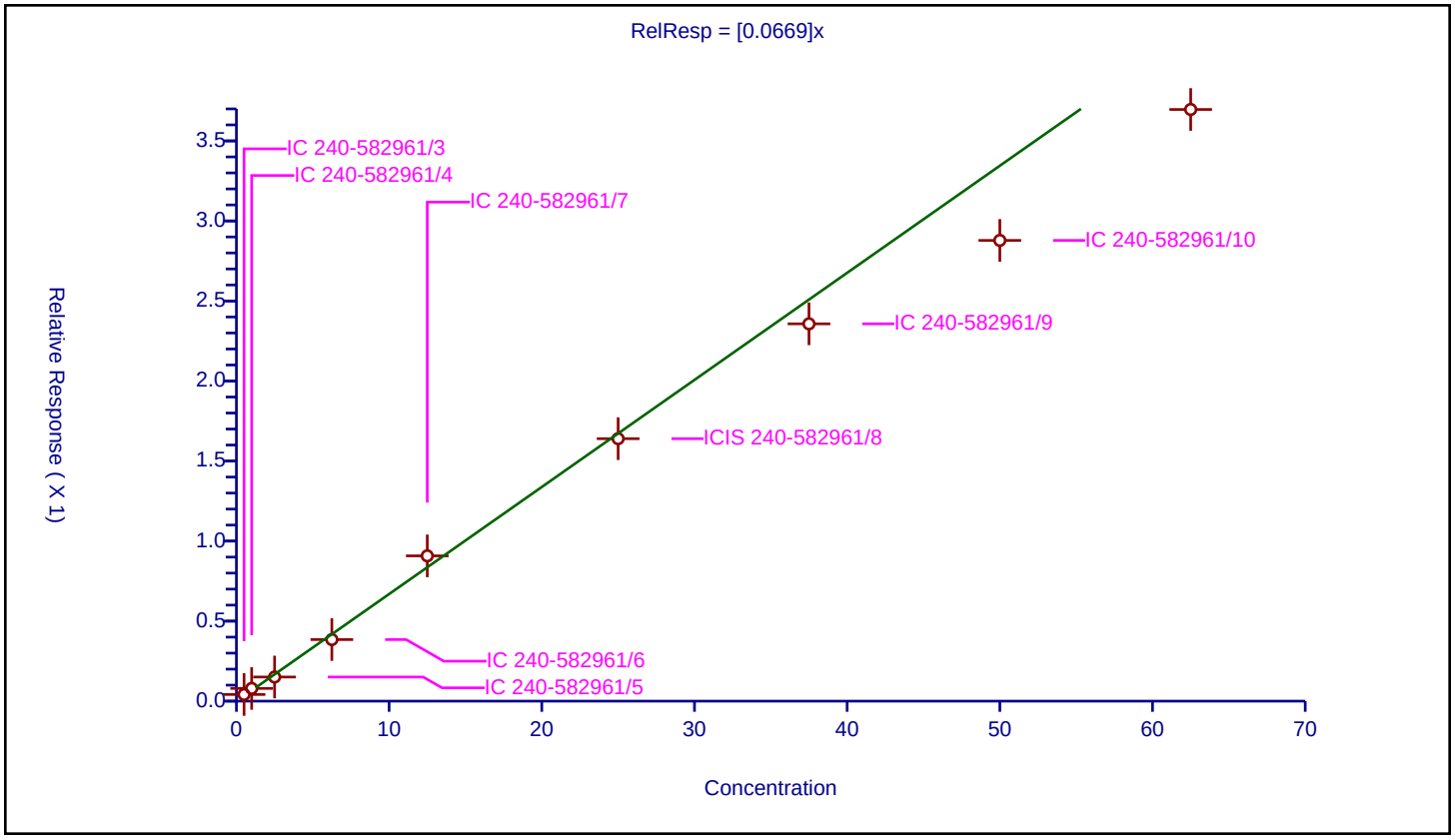
Curve Coefficients

Intercept:	0
Slope:	0.0669

Error Coefficients

Standard Error:	88700
Relative Standard Error:	13.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.972

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 240-582961/3	0.5	0.041513	25.0	1093033.0	0.083026	Y
2	IC 240-582961/4	1.0	0.079465	25.0	1111185.0	0.079465	Y
3	IC 240-582961/5	2.5	0.150668	25.0	1145567.0	0.060267	Y
4	IC 240-582961/6	6.25	0.384612	25.0	1119634.0	0.061538	Y
5	IC 240-582961/7	12.5	0.907534	25.0	918974.0	0.072603	Y
6	ICIS 240-582961/8	25.0	1.639697	25.0	1078248.0	0.065588	Y
7	IC 240-582961/9	37.5	2.357284	25.0	1104884.0	0.062861	Y
8	IC 240-582961/10	50.0	2.878401	25.0	1122507.0	0.057568	Y
9	IC 240-582961/11	62.5	3.696309	25.0	1149038.0	0.059141	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

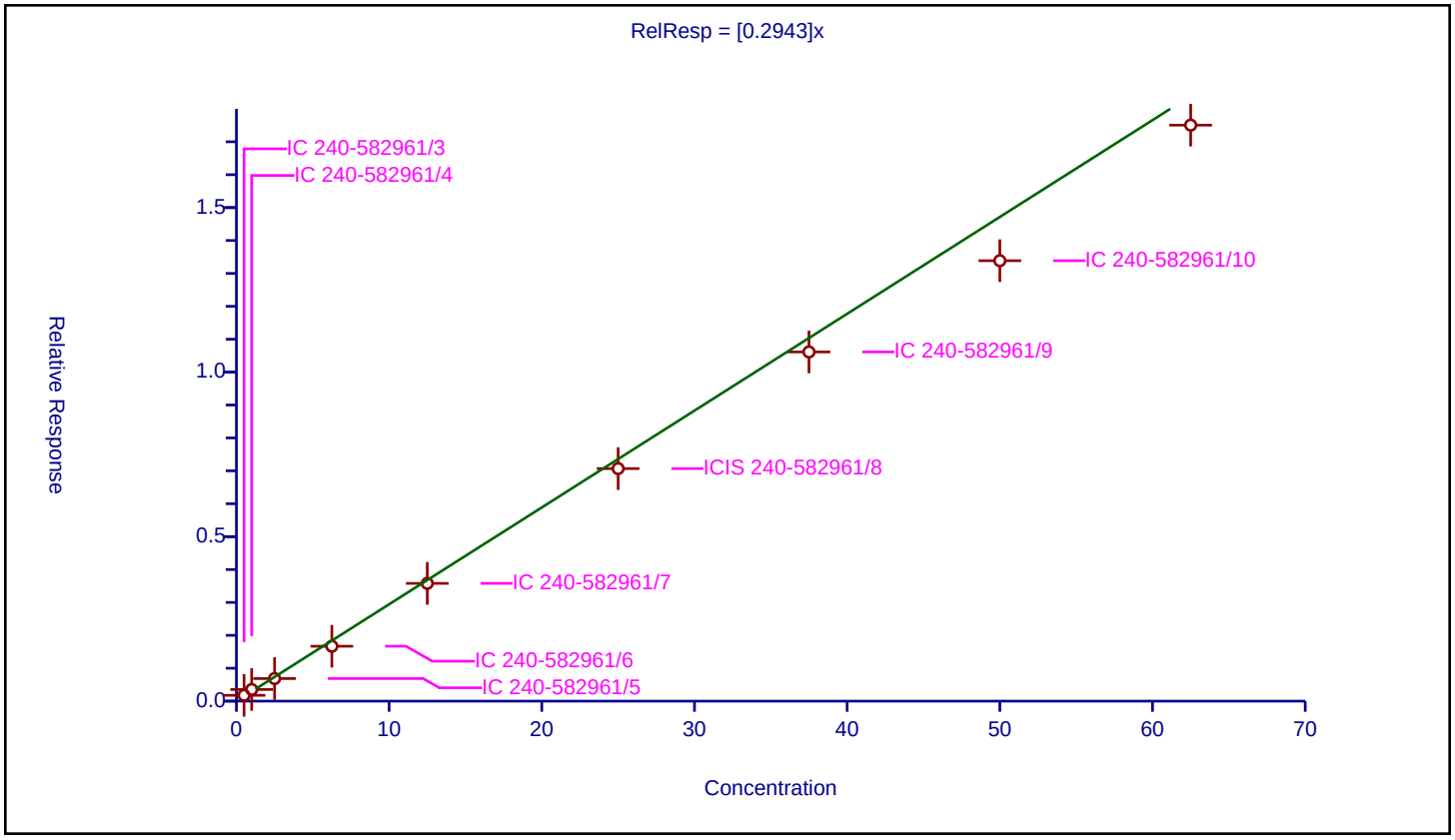
Curve Coefficients

Intercept:	0
Slope:	0.2943

Error Coefficients

Standard Error:	410000
Relative Standard Error:	11.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 240-582961/3	0.5	0.176619	25.0	1093033.0	0.353237	Y
2	IC 240-582961/4	1.0	0.354126	25.0	1111185.0	0.354126	Y
3	IC 240-582961/5	2.5	0.686014	25.0	1145567.0	0.274406	Y
4	IC 240-582961/6	6.25	1.668983	25.0	1119634.0	0.267037	Y
5	IC 240-582961/7	12.5	3.579508	25.0	918974.0	0.286361	Y
6	ICIS 240-582961/8	25.0	7.068202	25.0	1078248.0	0.282728	Y
7	IC 240-582961/9	37.5	10.613535	25.0	1104884.0	0.283028	Y
8	IC 240-582961/10	50.0	13.386019	25.0	1122507.0	0.26772	Y
9	IC 240-582961/11	62.5	17.506384	25.0	1149038.0	0.280102	Y



Calibration / 2-Butanone (MEK)

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

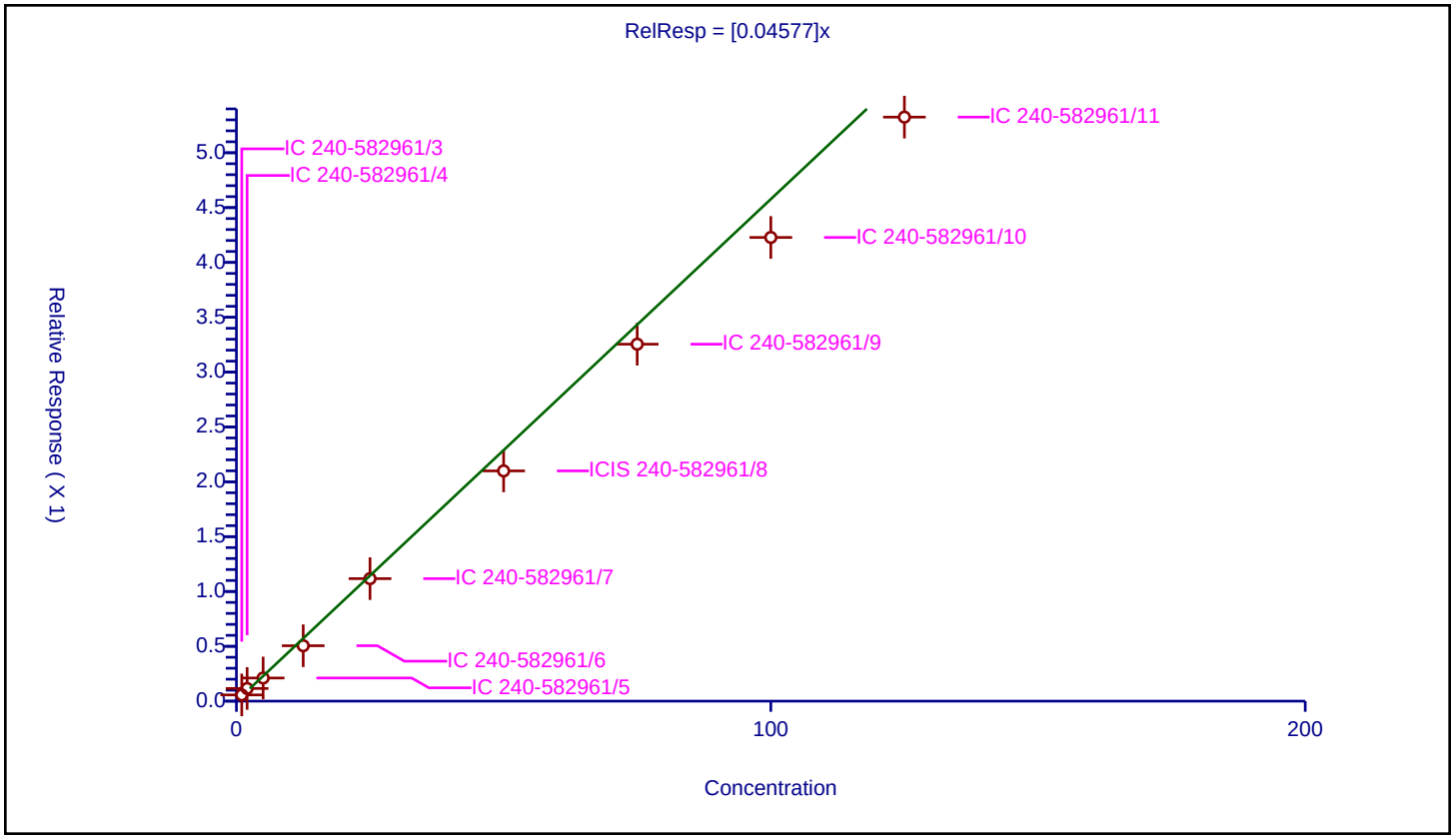
Curve Coefficients

Intercept:	0
Slope:	0.04577

Error Coefficients

Standard Error:	126000
Relative Standard Error:	14.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.969

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 240-582961/3	1.0	0.0567	25.0	1093033.0	0.0567	Y
2	IC 240-582961/4	2.0	0.115372	25.0	1111185.0	0.057686	Y
3	IC 240-582961/5	5.0	0.210922	25.0	1145567.0	0.042184	Y
4	IC 240-582961/6	12.5	0.505232	25.0	1119634.0	0.040419	Y
5	IC 240-582961/7	25.0	1.116952	25.0	918974.0	0.044678	Y
6	ICIS 240-582961/8	50.0	2.099239	25.0	1078248.0	0.041985	Y
7	IC 240-582961/9	75.0	3.25464	25.0	1104884.0	0.043395	Y
8	IC 240-582961/10	100.0	4.227836	25.0	1122507.0	0.042278	Y
9	IC 240-582961/11	125.0	5.324933	25.0	1149038.0	0.042599	Y



Calibration / Chlorobromomethane

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

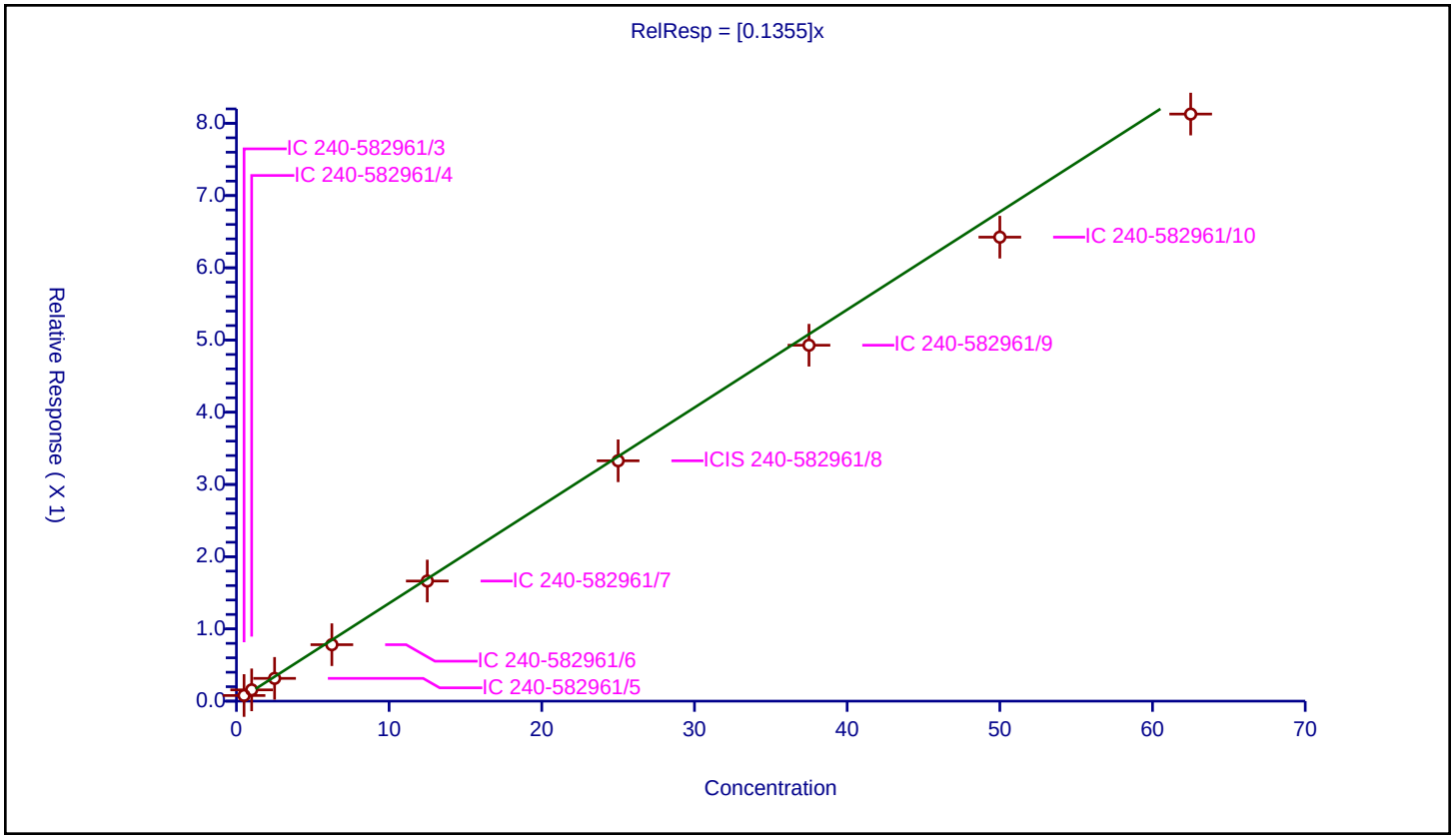
Curve Coefficients

Intercept:	0
Slope:	0.1355

Error Coefficients

Standard Error:	192000
Relative Standard Error:	8.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 240-582961/3	0.5	0.078063	25.0	1093033.0	0.156125	Y
2	IC 240-582961/4	1.0	0.156162	25.0	1111185.0	0.156162	Y
3	IC 240-582961/5	2.5	0.314953	25.0	1145567.0	0.125981	Y
4	IC 240-582961/6	6.25	0.781773	25.0	1119634.0	0.125084	Y
5	IC 240-582961/7	12.5	1.662914	25.0	918974.0	0.133033	Y
6	ICIS 240-582961/8	25.0	3.328038	25.0	1078248.0	0.133122	Y
7	IC 240-582961/9	37.5	4.927802	25.0	1104884.0	0.131408	Y
8	IC 240-582961/10	50.0	6.424214	25.0	1122507.0	0.128484	Y
9	IC 240-582961/11	62.5	8.128343	25.0	1149038.0	0.130053	Y



Calibration / Tetrahydrofuran

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

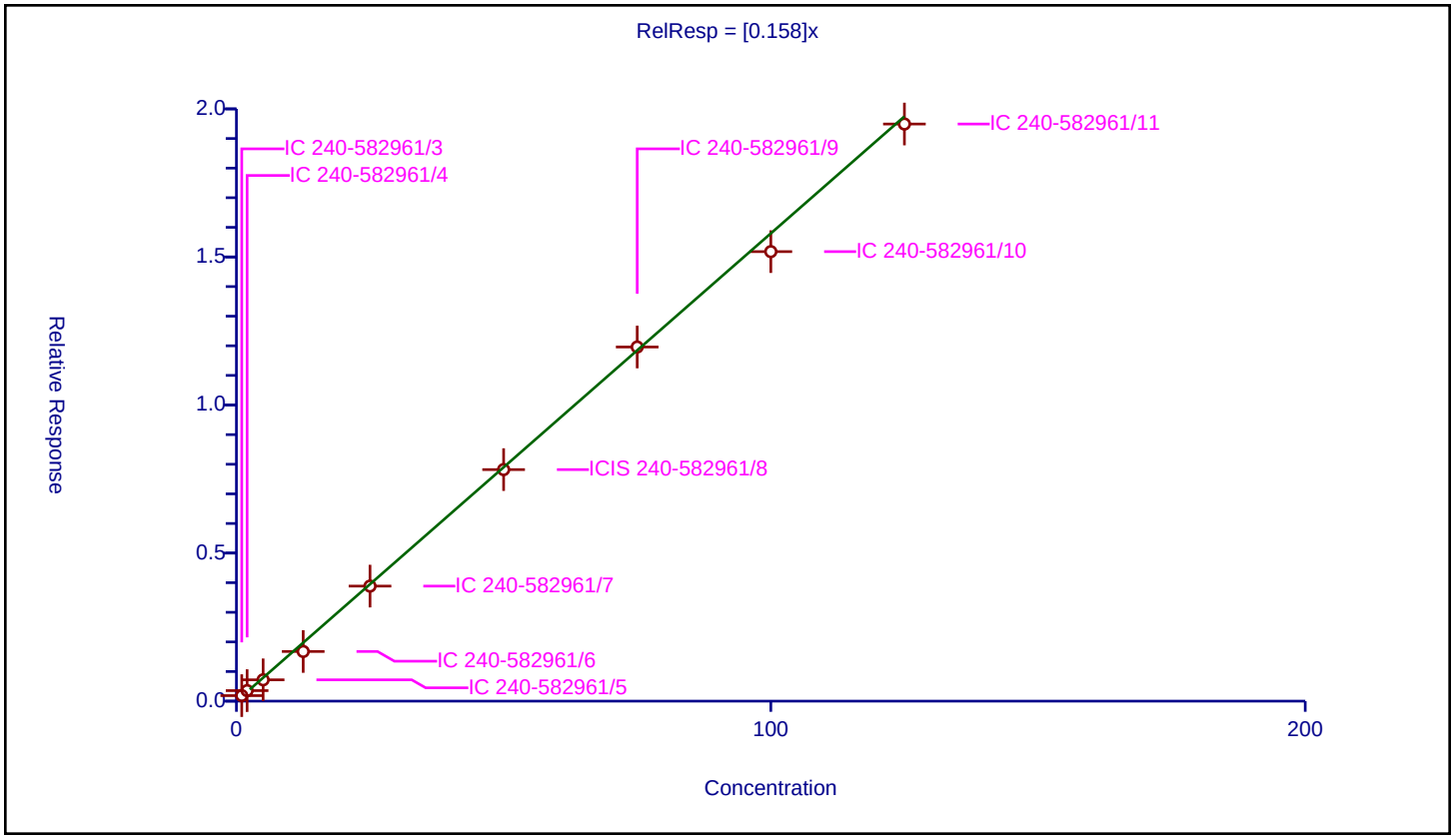
Curve Coefficients

Intercept:	0
Slope:	0.158

Error Coefficients

Standard Error:	459000
Relative Standard Error:	10.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 240-582961/3	1.0	0.186637	25.0	1093033.0	0.186637	Y
2	IC 240-582961/4	2.0	0.355656	25.0	1111185.0	0.177828	Y
3	IC 240-582961/5	5.0	0.720211	25.0	1145567.0	0.144042	Y
4	IC 240-582961/6	12.5	1.676731	25.0	1119634.0	0.134138	Y
5	IC 240-582961/7	25.0	3.884822	25.0	918974.0	0.155393	Y
6	ICIS 240-582961/8	50.0	7.818957	25.0	1078248.0	0.156379	Y
7	IC 240-582961/9	75.0	11.959083	25.0	1104884.0	0.159454	Y
8	IC 240-582961/10	100.0	15.180284	25.0	1122507.0	0.151803	Y
9	IC 240-582961/11	125.0	19.488912	25.0	1149038.0	0.155911	Y



Calibration / Chloroform

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

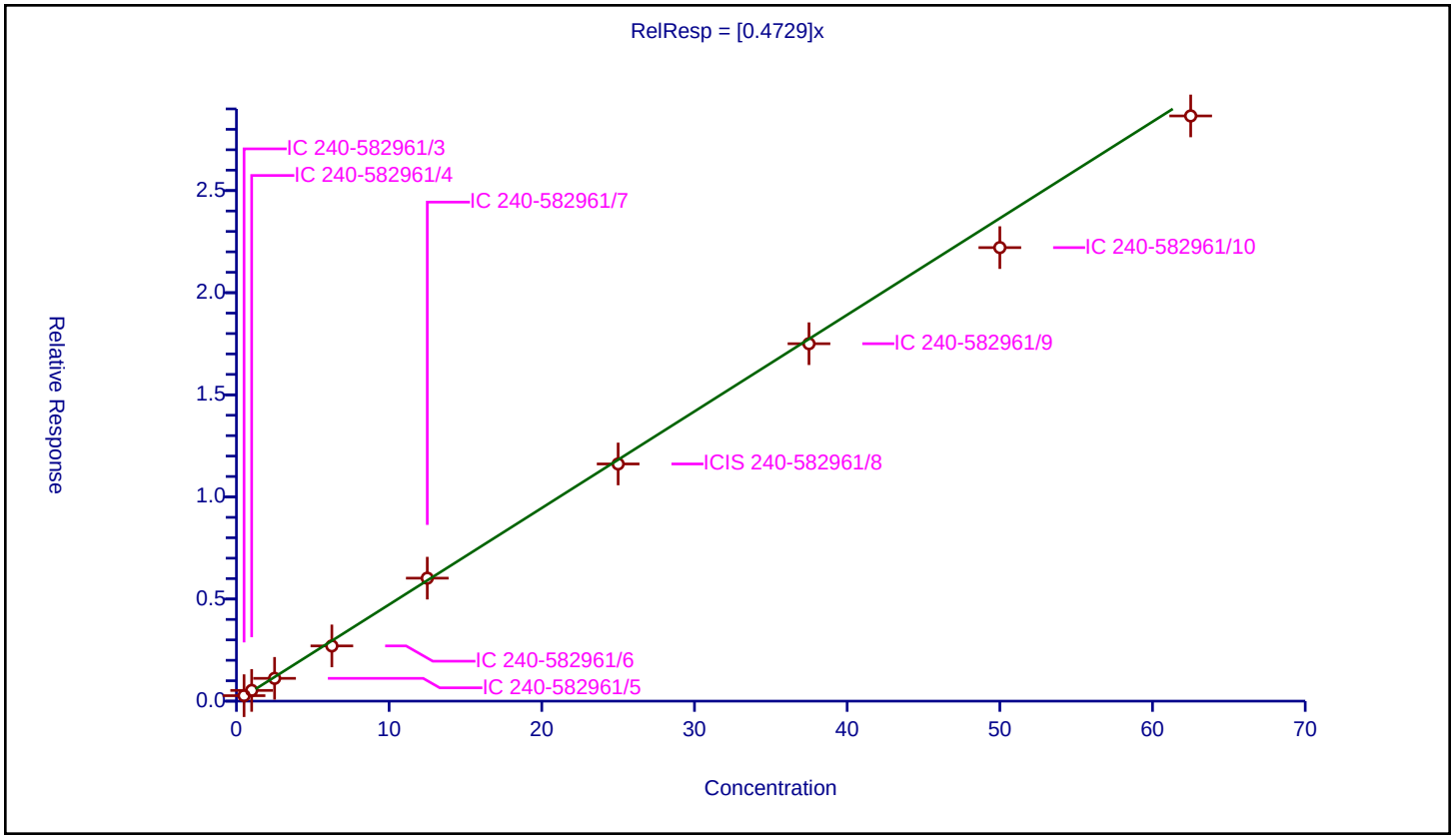
Curve Coefficients

Intercept:	0
Slope:	0.4729

Error Coefficients

Standard Error:	675000
Relative Standard Error:	7.6
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 240-582961/3	0.5	0.268359	25.0	1093033.0	0.536718	Y
2	IC 240-582961/4	1.0	0.524418	25.0	1111185.0	0.524418	Y
3	IC 240-582961/5	2.5	1.115888	25.0	1145567.0	0.446355	Y
4	IC 240-582961/6	6.25	2.704366	25.0	1119634.0	0.432699	Y
5	IC 240-582961/7	12.5	6.022532	25.0	918974.0	0.481803	Y
6	ICIS 240-582961/8	25.0	11.613724	25.0	1078248.0	0.464549	Y
7	IC 240-582961/9	37.5	17.502493	25.0	1104884.0	0.466733	Y
8	IC 240-582961/10	50.0	22.207612	25.0	1122507.0	0.444152	Y
9	IC 240-582961/11	62.5	28.656254	25.0	1149038.0	0.4585	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

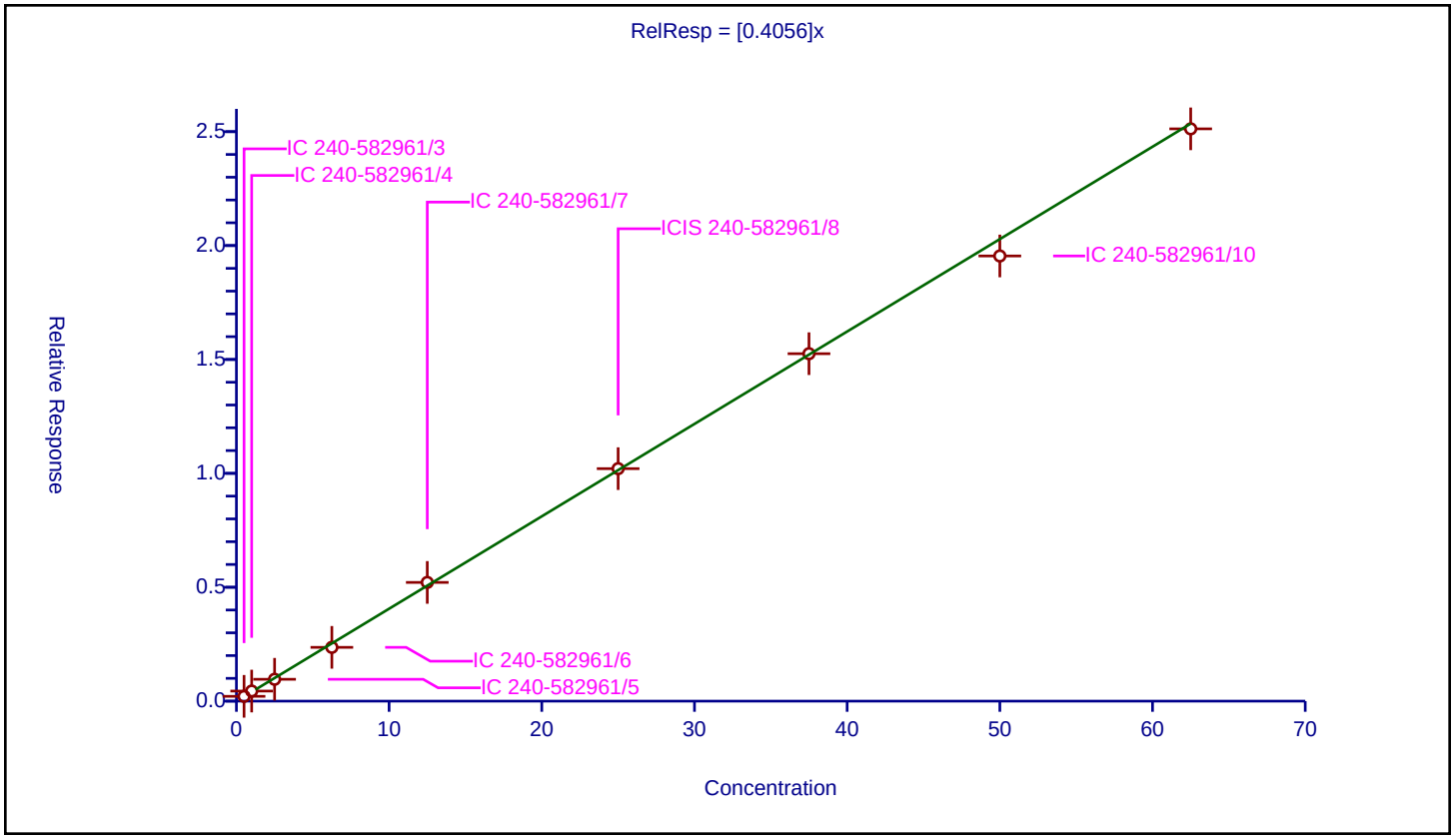
Curve Coefficients

Intercept:	0
Slope:	0.4056

Error Coefficients

Standard Error:	592000
Relative Standard Error:	5.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 240-582961/3	0.5	0.210858	25.0	1093033.0	0.421716	Y
2	IC 240-582961/4	1.0	0.442996	25.0	1111185.0	0.442996	Y
3	IC 240-582961/5	2.5	0.95887	25.0	1145567.0	0.383548	Y
4	IC 240-582961/6	6.25	2.360995	25.0	1119634.0	0.377759	Y
5	IC 240-582961/7	12.5	5.211818	25.0	918974.0	0.416945	Y
6	ICIS 240-582961/8	25.0	10.206395	25.0	1078248.0	0.408256	Y
7	IC 240-582961/9	37.5	15.25323	25.0	1104884.0	0.406753	Y
8	IC 240-582961/10	50.0	19.542974	25.0	1122507.0	0.390859	Y
9	IC 240-582961/11	62.5	25.123886	25.0	1149038.0	0.401982	Y



Calibration / Dibromofluoromethane (Surr)

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

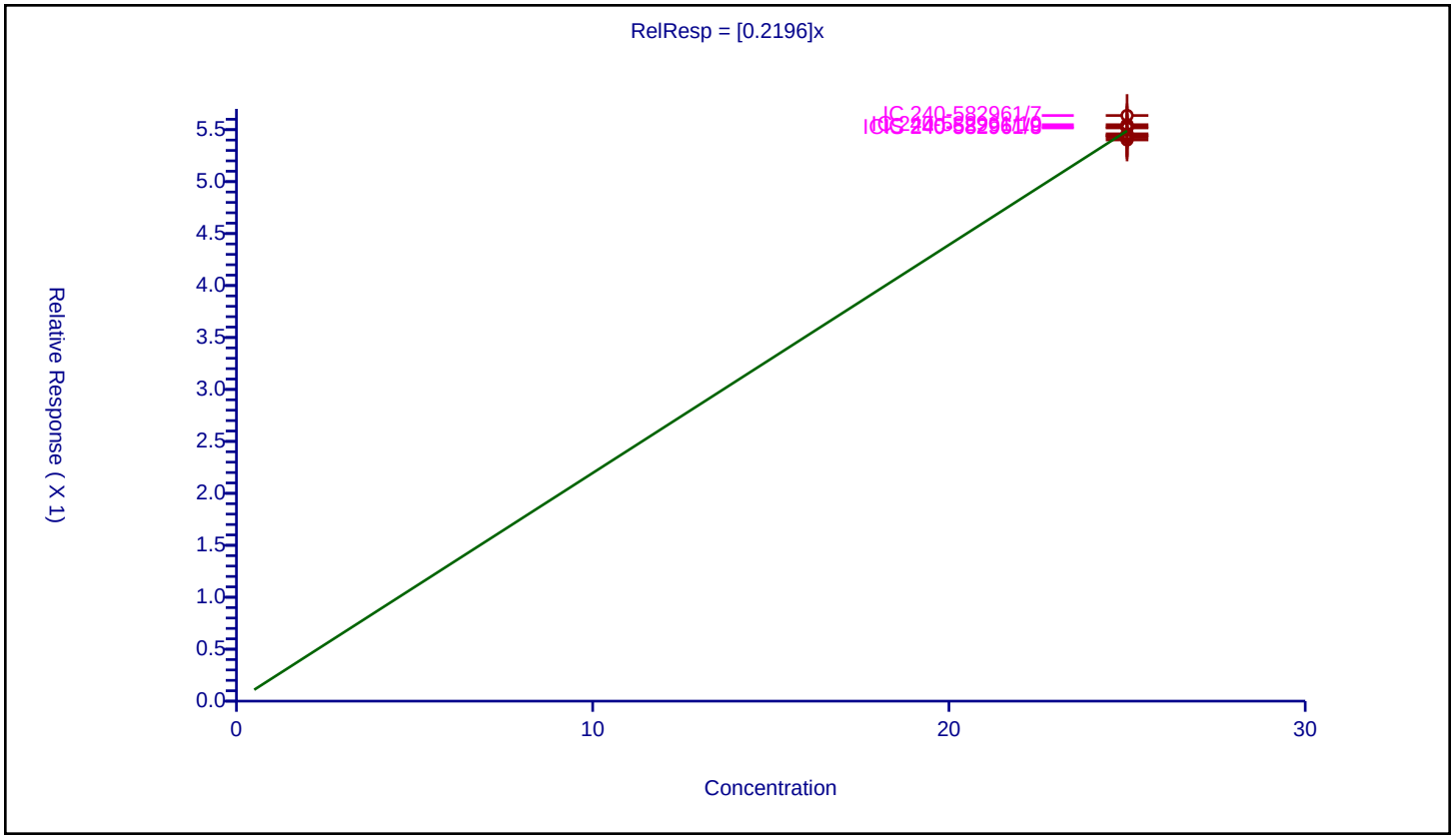
Curve Coefficients

Intercept:	0
Slope:	0.2196

Error Coefficients

Standard Error:	255000
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 240-582961/3	25.0	5.440778	25.0	1093033.0	0.217631	Y
2	IC 240-582961/4	25.0	5.44412	25.0	1111185.0	0.217765	Y
3	IC 240-582961/5	25.0	5.424912	25.0	1145567.0	0.216996	Y
4	IC 240-582961/6	25.0	5.40114	25.0	1119634.0	0.216046	Y
5	IC 240-582961/7	25.0	5.636313	25.0	918974.0	0.225453	Y
6	ICIS 240-582961/8	25.0	5.51682	25.0	1078248.0	0.220673	Y
7	IC 240-582961/9	25.0	5.526666	25.0	1104884.0	0.221067	Y
8	IC 240-582961/10	25.0	5.548005	25.0	1122507.0	0.22192	Y
9	IC 240-582961/11	25.0	5.460394	25.0	1149038.0	0.218416	Y



Calibration / Cyclohexane

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

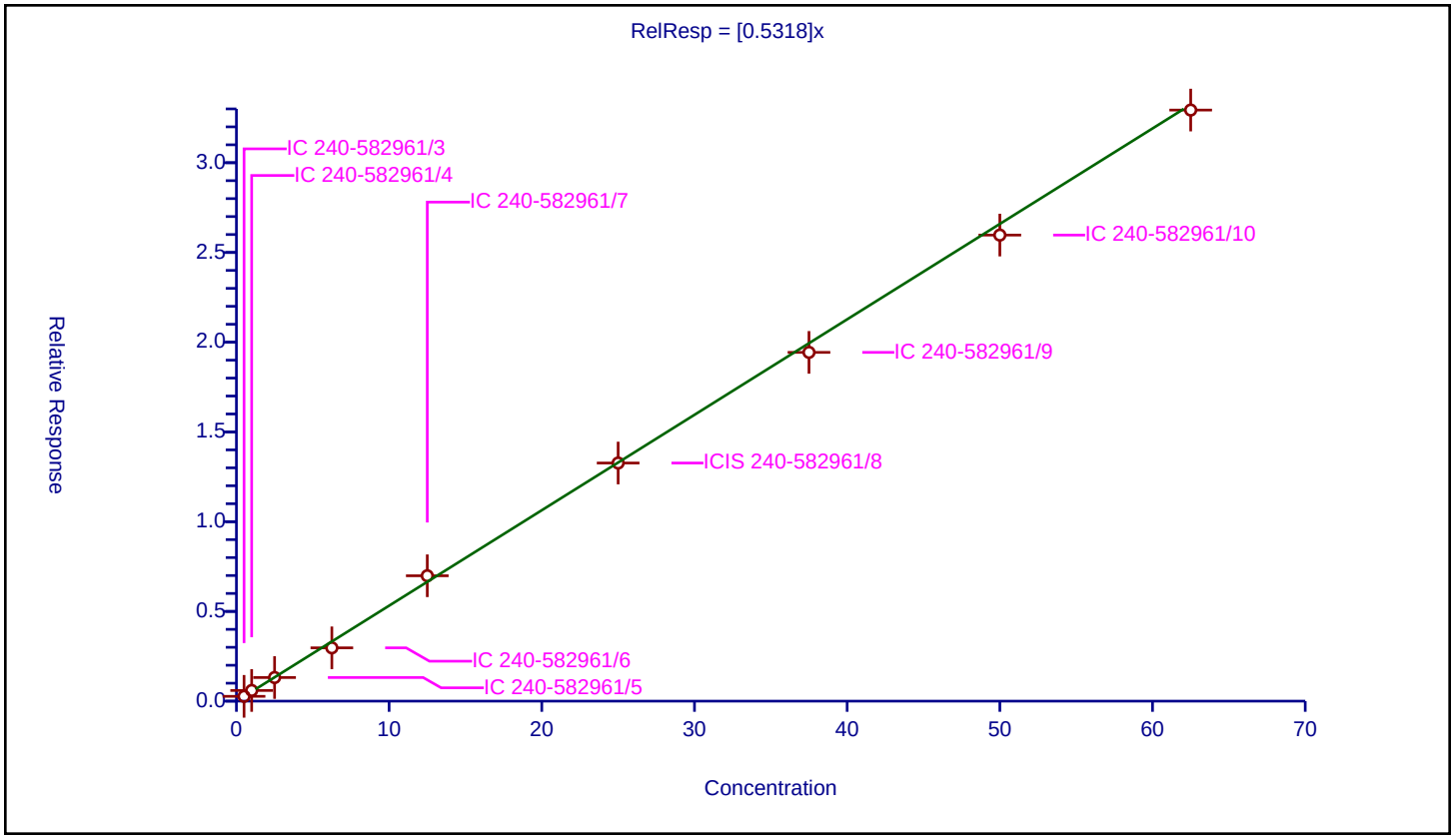
Curve Coefficients

Intercept:	0
Slope:	0.5318

Error Coefficients

Standard Error:	775000
Relative Standard Error:	6.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 240-582961/3	0.5	0.268039	25.0	1093033.0	0.536077	Y
2	IC 240-582961/4	1.0	0.594433	25.0	1111185.0	0.594433	Y
3	IC 240-582961/5	2.5	1.316139	25.0	1145567.0	0.526455	Y
4	IC 240-582961/6	6.25	2.970055	25.0	1119634.0	0.475209	Y
5	IC 240-582961/7	12.5	6.985453	25.0	918974.0	0.558836	Y
6	ICIS 240-582961/8	25.0	13.268585	25.0	1078248.0	0.530743	Y
7	IC 240-582961/9	37.5	19.433465	25.0	1104884.0	0.518226	Y
8	IC 240-582961/10	50.0	25.968635	25.0	1122507.0	0.519373	Y
9	IC 240-582961/11	62.5	32.935029	25.0	1149038.0	0.52696	Y



Calibration / Carbon tetrachloride

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

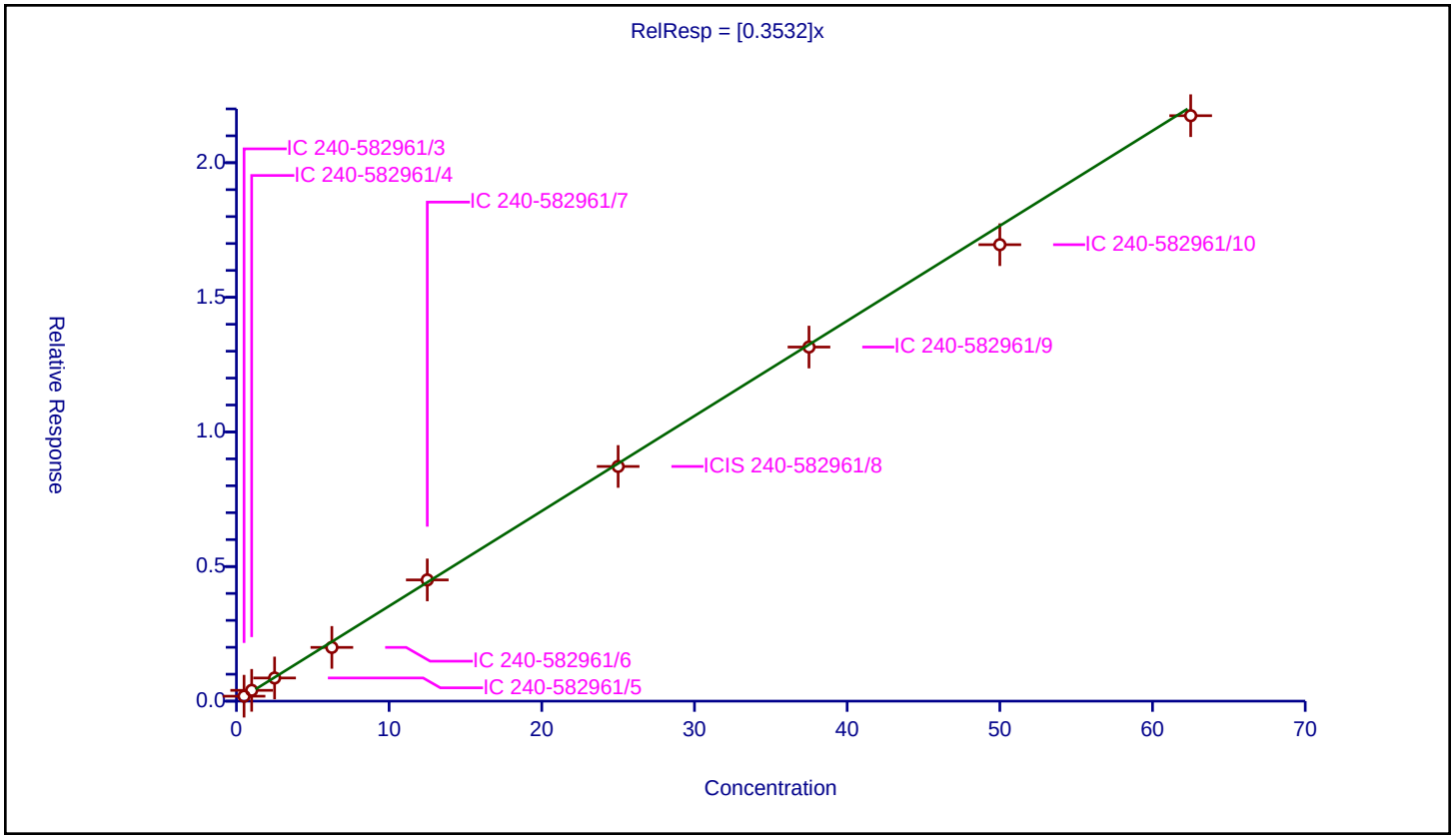
Curve Coefficients

Intercept:	0
Slope:	0.3532

Error Coefficients

Standard Error:	512000
Relative Standard Error:	6.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 240-582961/3	0.5	0.183572	25.0	1093033.0	0.367144	Y
2	IC 240-582961/4	1.0	0.400923	25.0	1111185.0	0.400923	Y
3	IC 240-582961/5	2.5	0.860644	25.0	1145567.0	0.344257	Y
4	IC 240-582961/6	6.25	1.995585	25.0	1119634.0	0.319294	Y
5	IC 240-582961/7	12.5	4.502766	25.0	918974.0	0.360221	Y
6	ICIS 240-582961/8	25.0	8.717753	25.0	1078248.0	0.34871	Y
7	IC 240-582961/9	37.5	13.152919	25.0	1104884.0	0.350745	Y
8	IC 240-582961/10	50.0	16.956331	25.0	1122507.0	0.339127	Y
9	IC 240-582961/11	62.5	21.747236	25.0	1149038.0	0.347956	Y



Calibration / 1,1-Dichloropropene

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

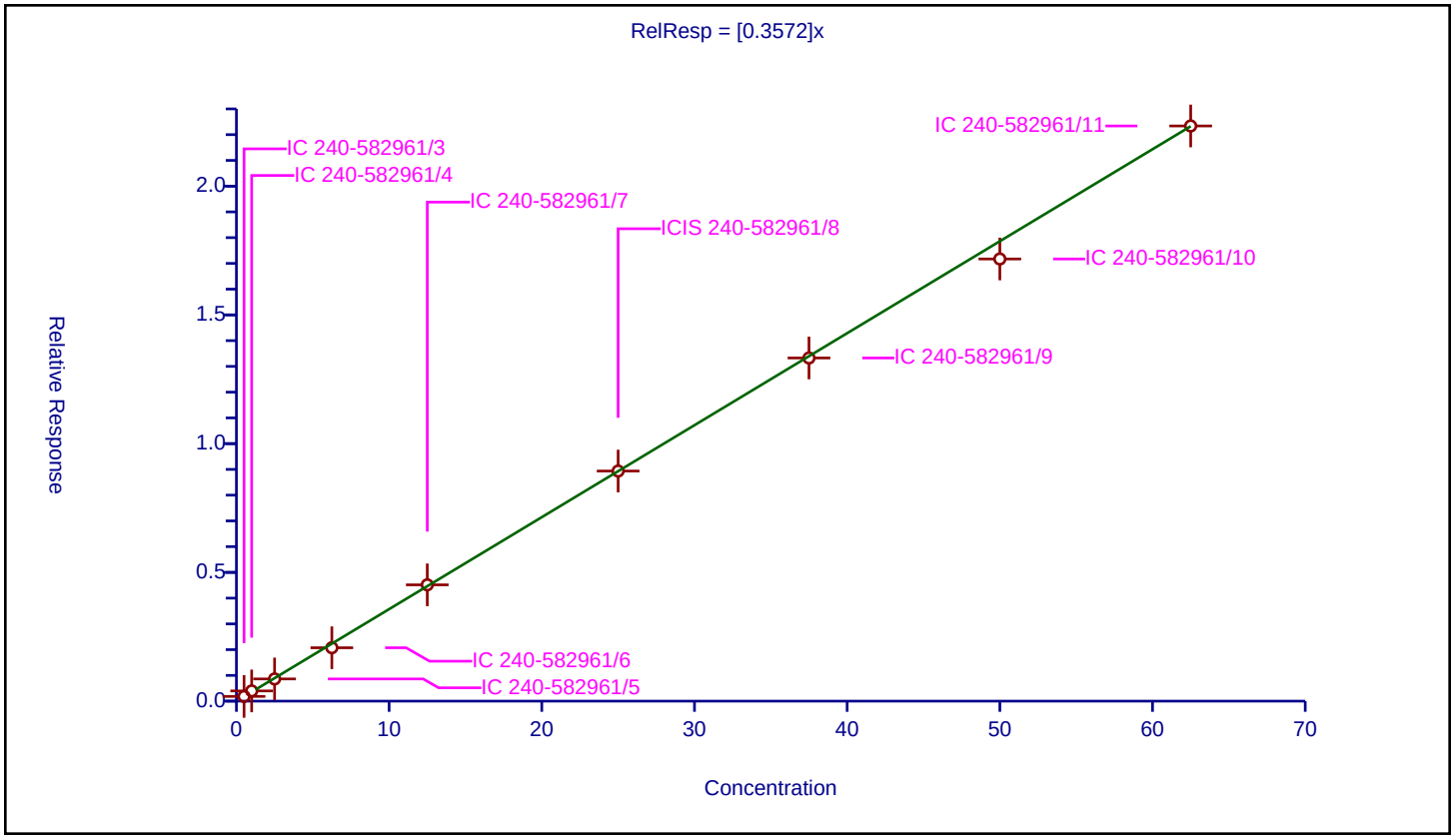
Curve Coefficients

Intercept:	0
Slope:	0.3572

Error Coefficients

Standard Error:	522000
Relative Standard Error:	5.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 240-582961/3	0.5	0.18316	25.0	1093033.0	0.36632	Y
2	IC 240-582961/4	1.0	0.397099	25.0	1111185.0	0.397099	Y
3	IC 240-582961/5	2.5	0.8618	25.0	1145567.0	0.34472	Y
4	IC 240-582961/6	6.25	2.073378	25.0	1119634.0	0.331741	Y
5	IC 240-582961/7	12.5	4.516613	25.0	918974.0	0.361329	Y
6	ICIS 240-582961/8	25.0	8.936557	25.0	1078248.0	0.357462	Y
7	IC 240-582961/9	37.5	13.327214	25.0	1104884.0	0.355392	Y
8	IC 240-582961/10	50.0	17.171942	25.0	1122507.0	0.343439	Y
9	IC 240-582961/11	62.5	22.337099	25.0	1149038.0	0.357394	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

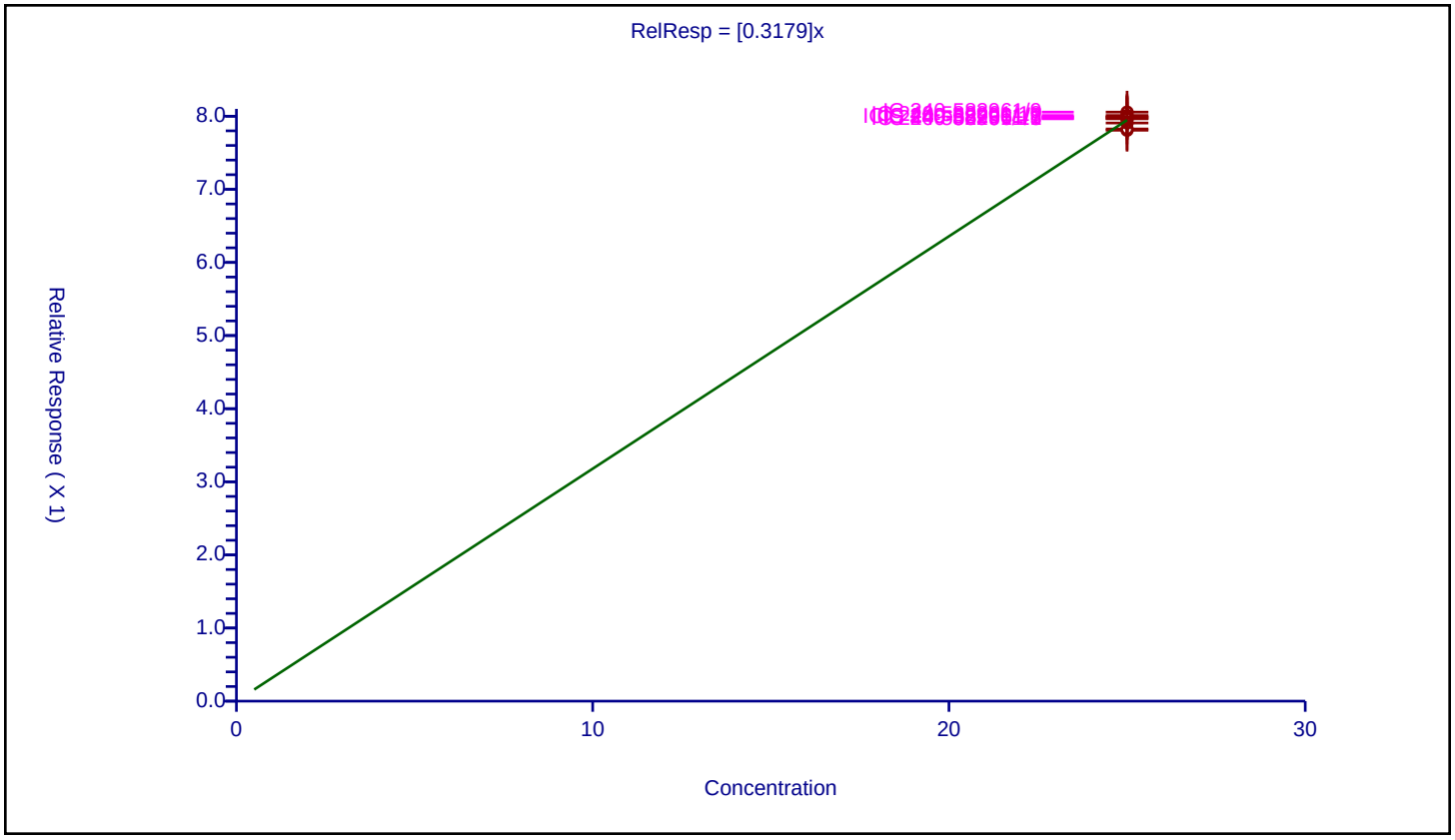
Curve Coefficients

Intercept:	0
Slope:	0.3179

Error Coefficients

Standard Error:	369000
Relative Standard Error:	1.1
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 240-582961/3	25.0	7.964444	25.0	1093033.0	0.318578	Y
2	IC 240-582961/4	25.0	7.906807	25.0	1111185.0	0.316272	Y
3	IC 240-582961/5	25.0	7.807968	25.0	1145567.0	0.312319	Y
4	IC 240-582961/6	25.0	7.82566	25.0	1119634.0	0.313026	Y
5	IC 240-582961/7	25.0	7.991412	25.0	918974.0	0.319656	Y
6	ICIS 240-582961/8	25.0	7.988236	25.0	1078248.0	0.319529	Y
7	IC 240-582961/9	25.0	8.055755	25.0	1104884.0	0.32223	Y
8	IC 240-582961/10	25.0	8.009928	25.0	1122507.0	0.320397	Y
9	IC 240-582961/11	25.0	7.96797	25.0	1149038.0	0.318719	Y



Calibration / Benzene

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

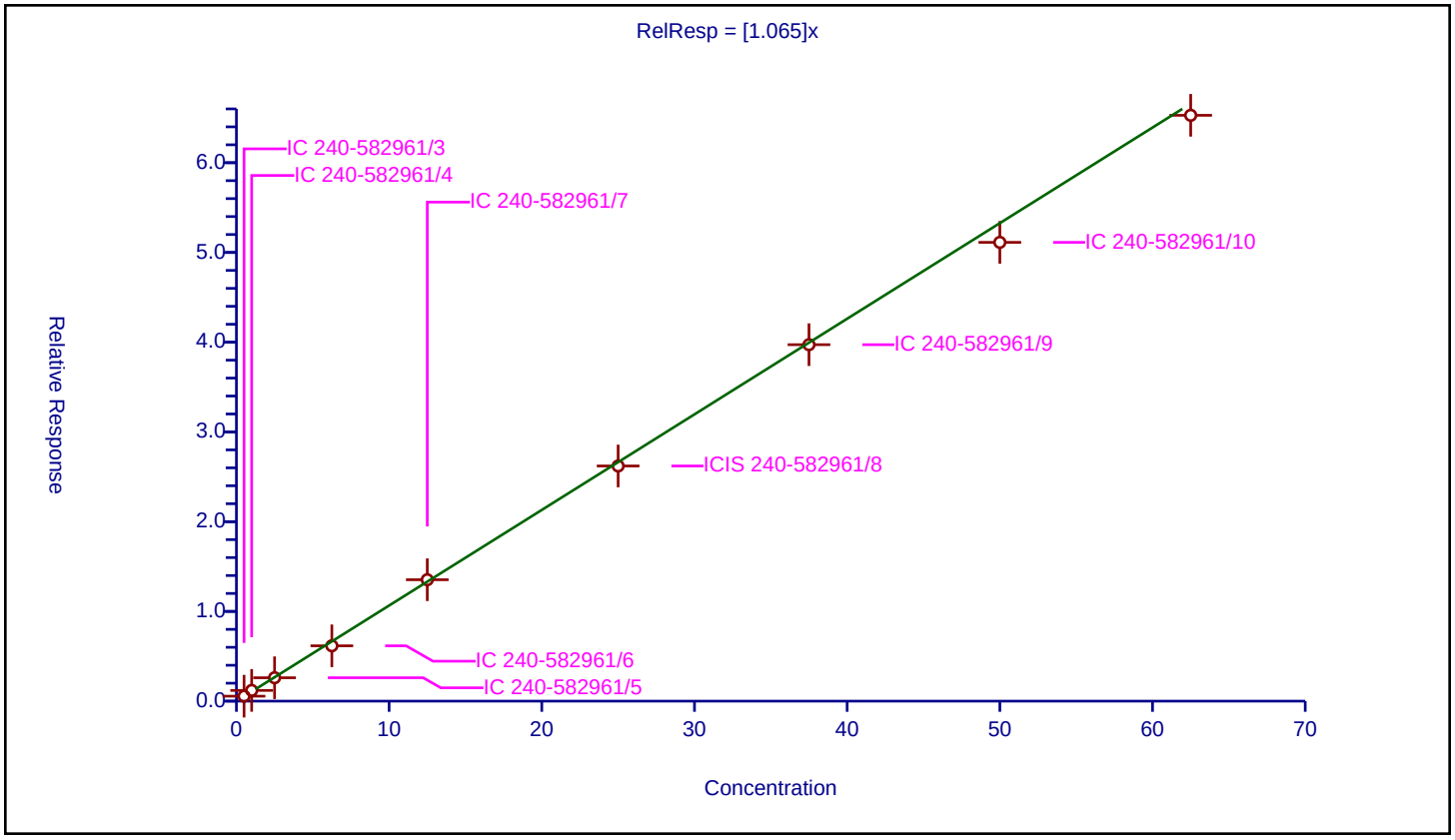
Curve Coefficients

Intercept:	0
Slope:	1.065

Error Coefficients

Standard Error:	1540000
Relative Standard Error:	5.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 240-582961/3	0.5	0.553803	25.0	1093033.0	1.107606	Y
2	IC 240-582961/4	1.0	1.193388	25.0	1111185.0	1.193388	Y
3	IC 240-582961/5	2.5	2.608665	25.0	1145567.0	1.043466	Y
4	IC 240-582961/6	6.25	6.166524	25.0	1119634.0	0.986644	Y
5	IC 240-582961/7	12.5	13.528756	25.0	918974.0	1.0823	Y
6	ICIS 240-582961/8	25.0	26.20566	25.0	1078248.0	1.048226	Y
7	IC 240-582961/9	37.5	39.722134	25.0	1104884.0	1.059257	Y
8	IC 240-582961/10	50.0	51.125984	25.0	1122507.0	1.02252	Y
9	IC 240-582961/11	62.5	65.285439	25.0	1149038.0	1.044567	Y



Calibration / 1,2-Dichloroethane

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

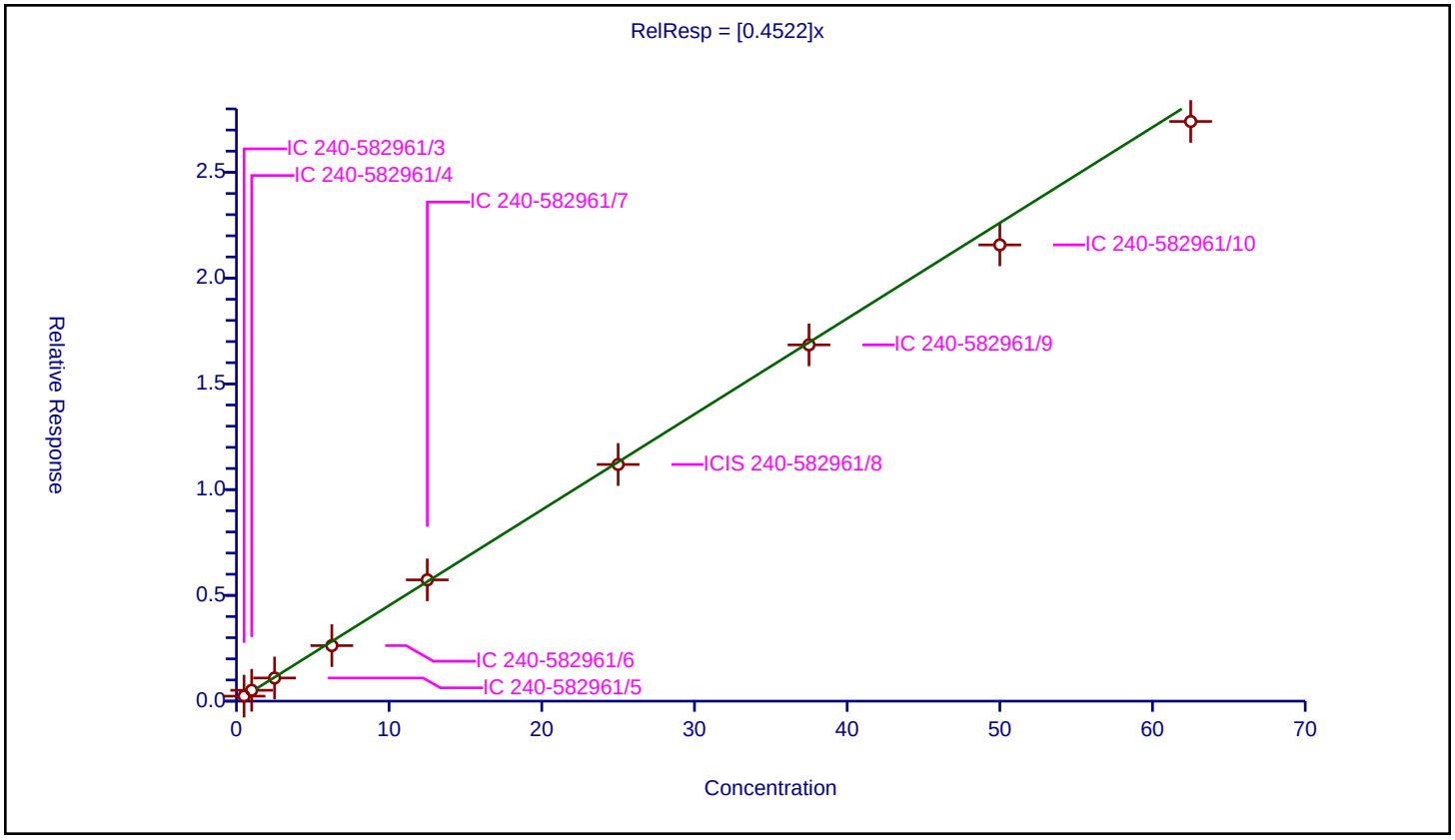
Curve Coefficients

Intercept:	0
Slope:	0.4522

Error Coefficients

Standard Error:	649000
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 240-582961/3	0.5	0.235949	25.0	1093033.0	0.471898	Y
2	IC 240-582961/4	1.0	0.514878	25.0	1111185.0	0.514878	Y
3	IC 240-582961/5	2.5	1.094305	25.0	1145567.0	0.437722	Y
4	IC 240-582961/6	6.25	2.625322	25.0	1119634.0	0.420052	Y
5	IC 240-582961/7	12.5	5.733242	25.0	918974.0	0.458659	Y
6	ICIS 240-582961/8	25.0	11.188474	25.0	1078248.0	0.447539	Y
7	IC 240-582961/9	37.5	16.843261	25.0	1104884.0	0.449154	Y
8	IC 240-582961/10	50.0	21.569977	25.0	1122507.0	0.4314	Y
9	IC 240-582961/11	62.5	27.405665	25.0	1149038.0	0.438491	Y



Calibration / Isobutyl alcohol

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

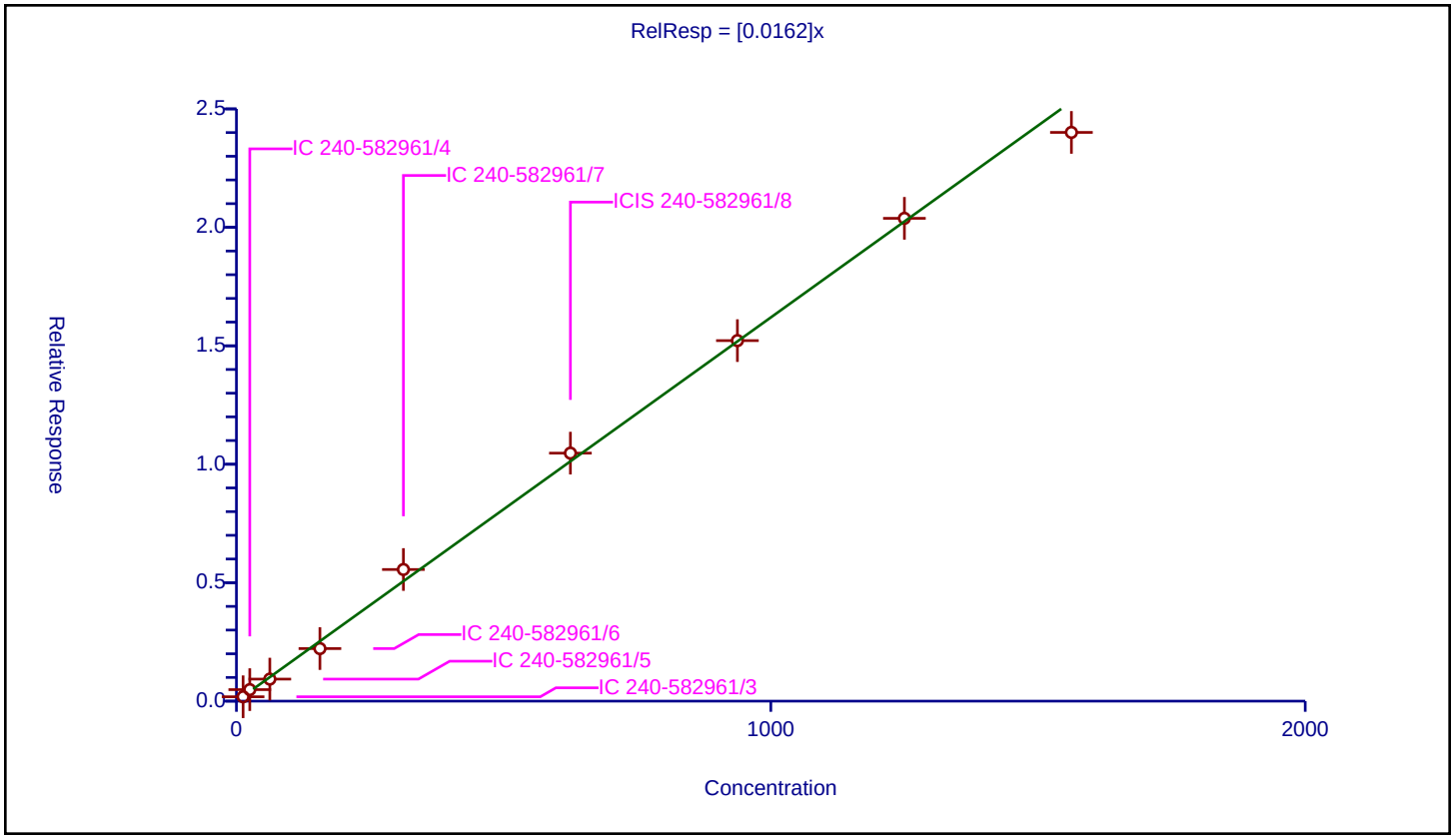
Curve Coefficients

Intercept:	0
Slope:	0.0162

Error Coefficients

Standard Error:	588000
Relative Standard Error:	10.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 240-582961/3	12.5	0.185264	25.0	1093033.0	0.014821	Y
2	IC 240-582961/4	25.0	0.485855	25.0	1111185.0	0.019434	Y
3	IC 240-582961/5	62.5	0.930391	25.0	1145567.0	0.014886	Y
4	IC 240-582961/6	156.25	2.218404	25.0	1119634.0	0.014198	Y
5	IC 240-582961/7	312.5	5.556387	25.0	918974.0	0.01778	Y
6	ICIS 240-582961/8	625.0	10.46902	25.0	1078248.0	0.01675	Y
7	IC 240-582961/9	937.5	15.218317	25.0	1104884.0	0.016233	Y
8	IC 240-582961/10	1250.0	20.380786	25.0	1122507.0	0.016305	Y
9	IC 240-582961/11	1562.5	24.007017	25.0	1149038.0	0.015364	Y



Calibration / n-Heptane

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

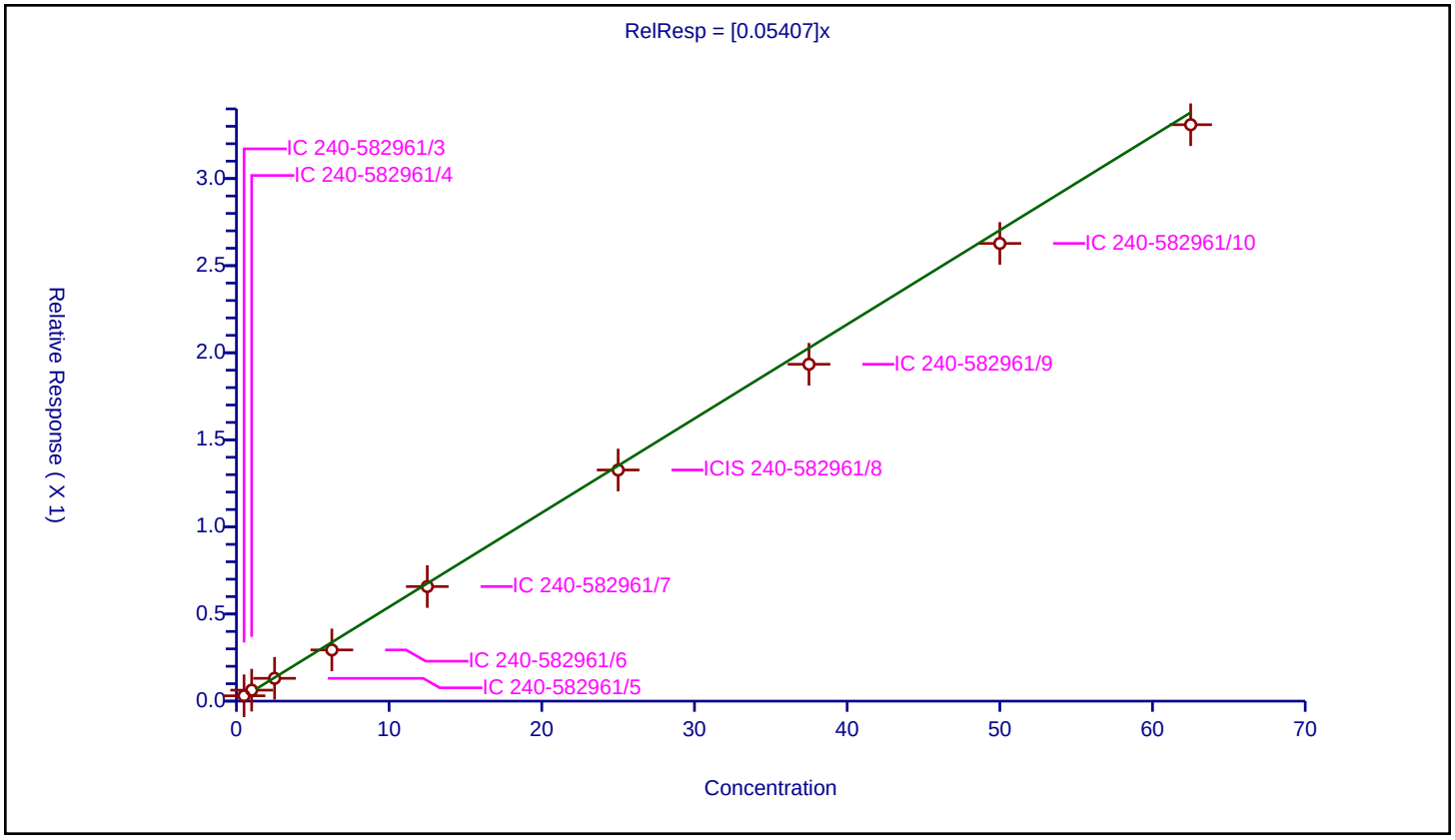
Curve Coefficients

Intercept:	0
Slope:	0.05407

Error Coefficients

Standard Error:	77800
Relative Standard Error:	9.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 240-582961/3	0.5	0.030626	25.0	1093033.0	0.061252	Y
2	IC 240-582961/4	1.0	0.063131	25.0	1111185.0	0.063131	Y
3	IC 240-582961/5	2.5	0.131027	25.0	1145567.0	0.052411	Y
4	IC 240-582961/6	6.25	0.293935	25.0	1119634.0	0.04703	Y
5	IC 240-582961/7	12.5	0.65788	25.0	918974.0	0.05263	Y
6	ICIS 240-582961/8	25.0	1.326944	25.0	1078248.0	0.053078	Y
7	IC 240-582961/9	37.5	1.933981	25.0	1104884.0	0.051573	Y
8	IC 240-582961/10	50.0	2.627467	25.0	1122507.0	0.052549	Y
9	IC 240-582961/11	62.5	3.309116	25.0	1149038.0	0.052946	Y



Calibration / Trichloroethene

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

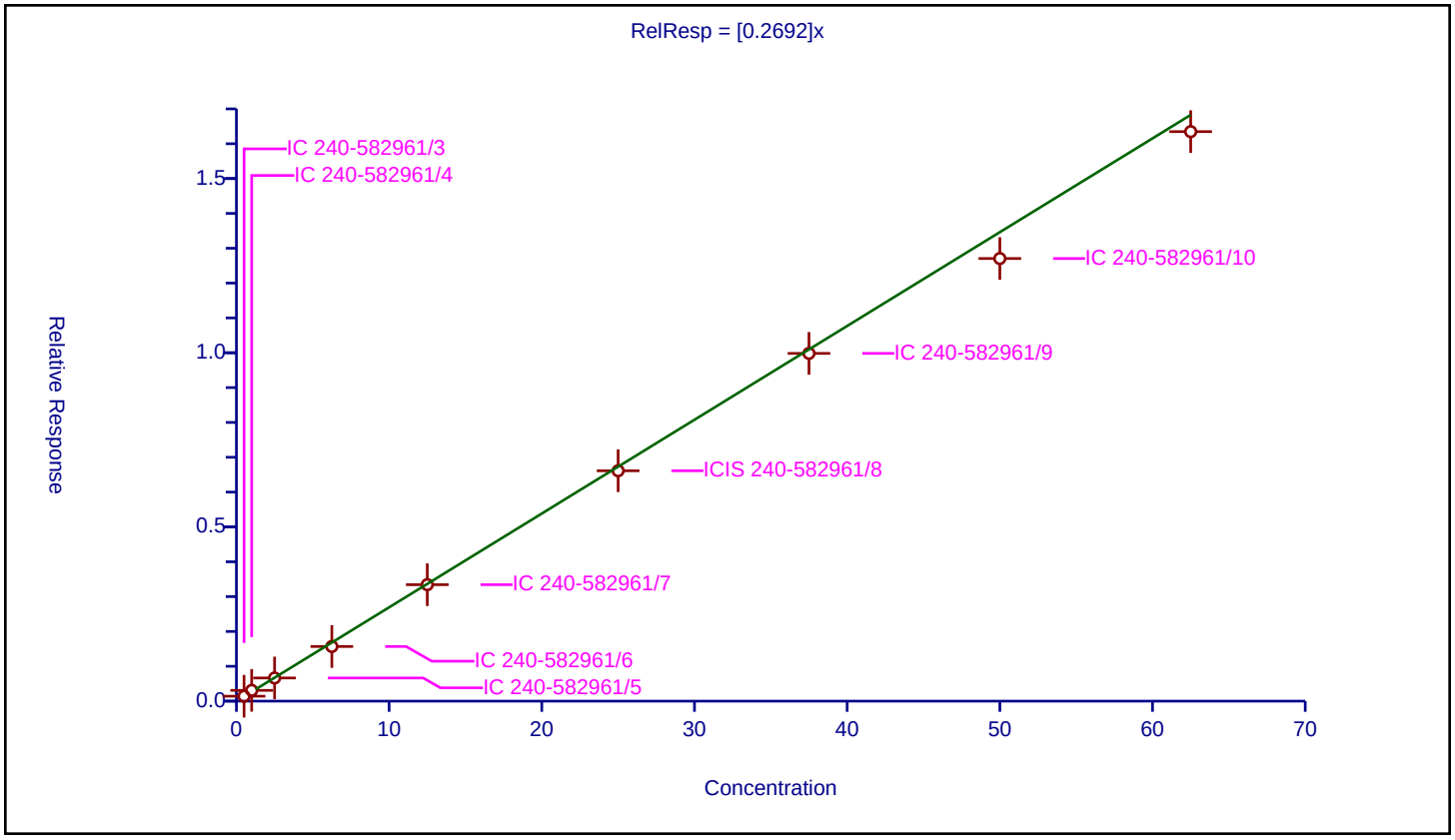
Curve Coefficients

Intercept:	0
Slope:	0.2692

Error Coefficients

Standard Error:	385000
Relative Standard Error:	6.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 240-582961/3	0.5	0.141601	25.0	1093033.0	0.283203	Y
2	IC 240-582961/4	1.0	0.309107	25.0	1111185.0	0.309107	Y
3	IC 240-582961/5	2.5	0.664736	25.0	1145567.0	0.265895	Y
4	IC 240-582961/6	6.25	1.568705	25.0	1119634.0	0.250993	Y
5	IC 240-582961/7	12.5	3.343076	25.0	918974.0	0.267446	Y
6	ICIS 240-582961/8	25.0	6.612973	25.0	1078248.0	0.264519	Y
7	IC 240-582961/9	37.5	9.981908	25.0	1104884.0	0.266184	Y
8	IC 240-582961/10	50.0	12.704709	25.0	1122507.0	0.254094	Y
9	IC 240-582961/11	62.5	16.346848	25.0	1149038.0	0.26155	Y



Calibration / Methylcyclohexane

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

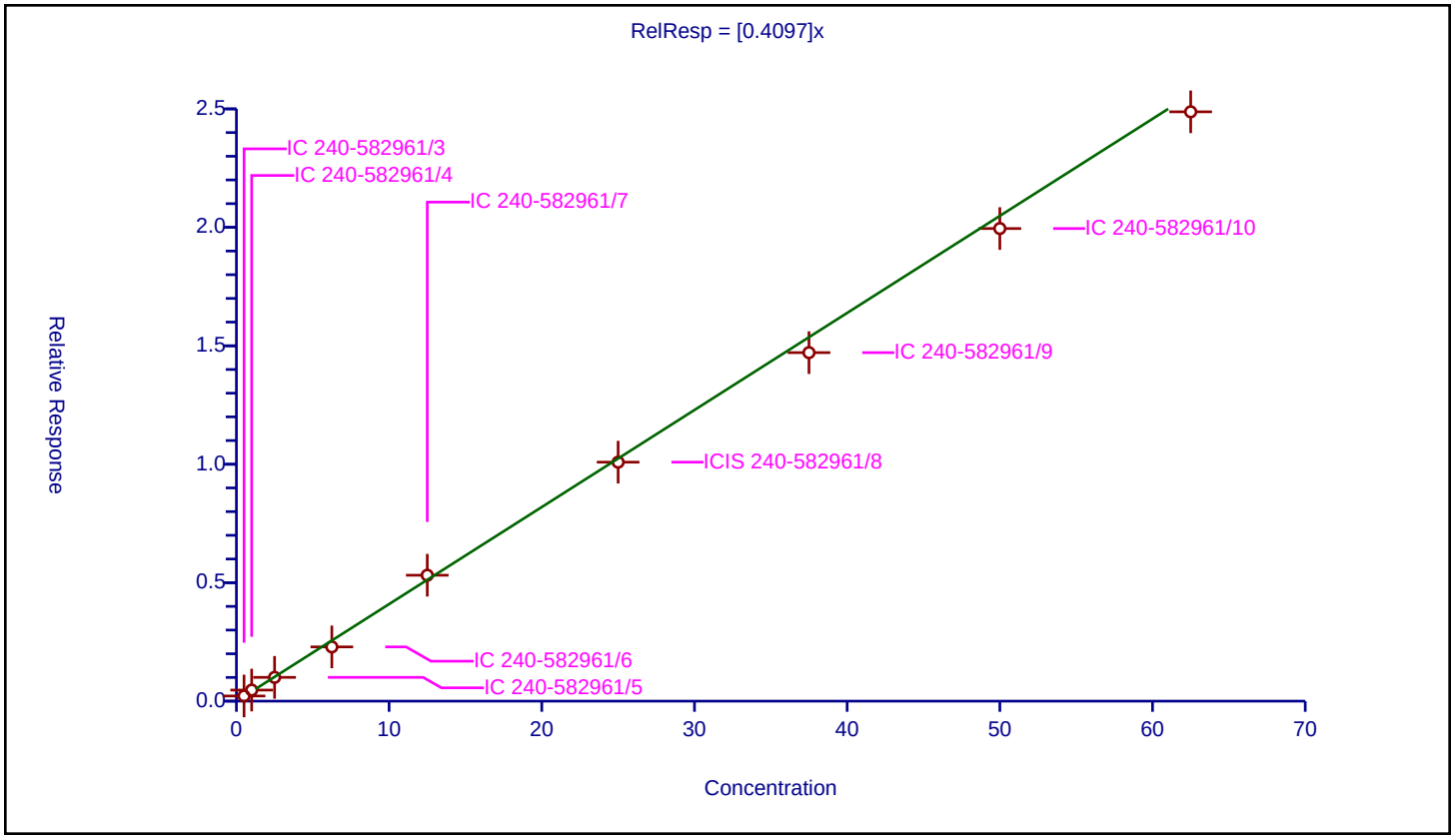
Curve Coefficients

Intercept:	0
Slope:	0.4097

Error Coefficients

Standard Error:	589000
Relative Standard Error:	7.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 240-582961/3	0.5	0.217308	25.0	1093033.0	0.434616	Y
2	IC 240-582961/4	1.0	0.466799	25.0	1111185.0	0.466799	Y
3	IC 240-582961/5	2.5	1.003106	25.0	1145567.0	0.401242	Y
4	IC 240-582961/6	6.25	2.289096	25.0	1119634.0	0.366255	Y
5	IC 240-582961/7	12.5	5.314922	25.0	918974.0	0.425194	Y
6	ICIS 240-582961/8	25.0	10.087382	25.0	1078248.0	0.403495	Y
7	IC 240-582961/9	37.5	14.711318	25.0	1104884.0	0.392302	Y
8	IC 240-582961/10	50.0	19.950121	25.0	1122507.0	0.399002	Y
9	IC 240-582961/11	62.5	24.875874	25.0	1149038.0	0.398014	Y



Calibration / 1,2-Dichloropropane

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

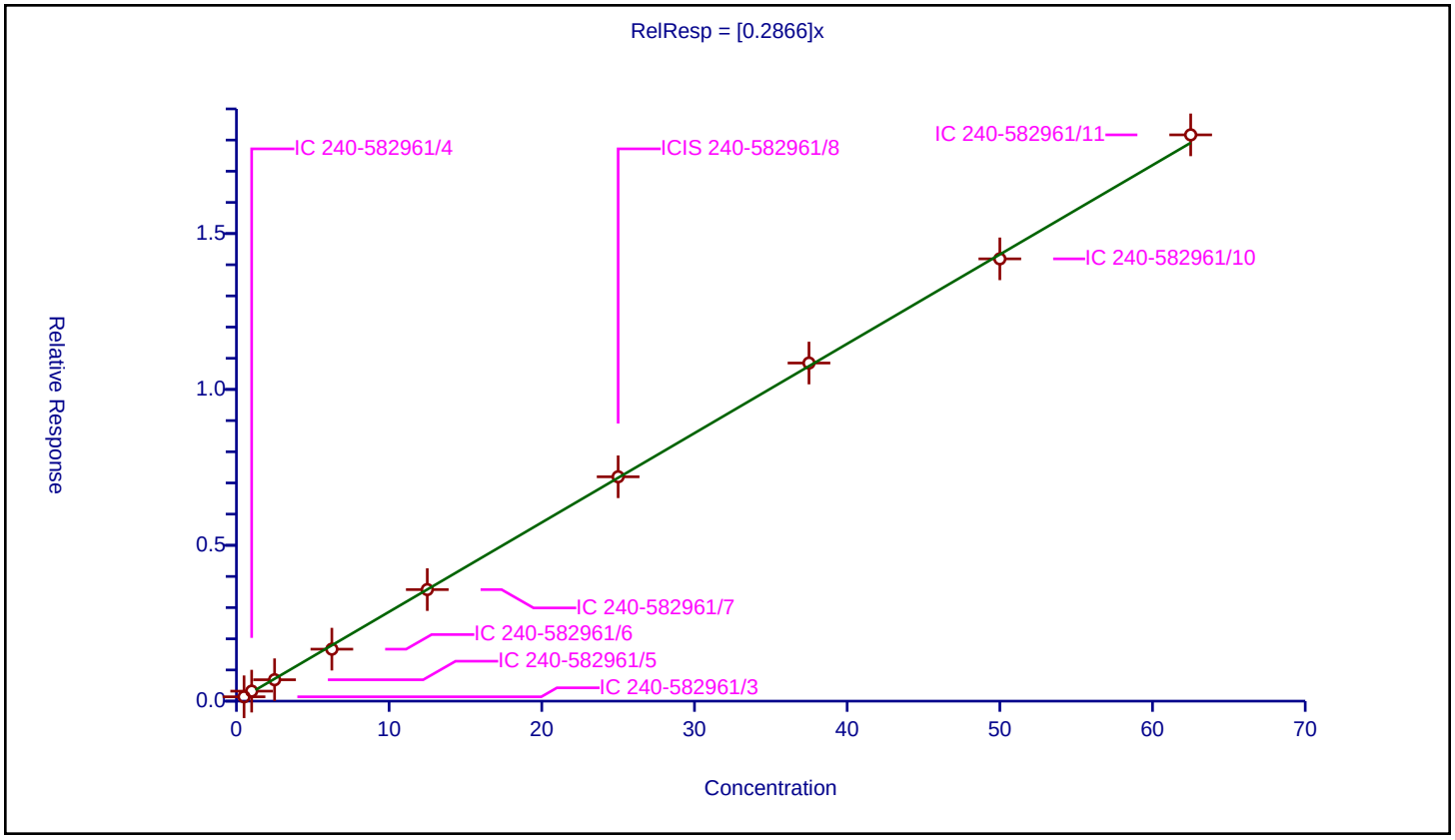
Curve Coefficients

Intercept:	0
Slope:	0.2866

Error Coefficients

Standard Error:	426000
Relative Standard Error:	5.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 240-582961/3	0.5	0.139406	25.0	1093033.0	0.278811	Y
2	IC 240-582961/4	1.0	0.321009	25.0	1111185.0	0.321009	Y
3	IC 240-582961/5	2.5	0.686865	25.0	1145567.0	0.274746	Y
4	IC 240-582961/6	6.25	1.667241	25.0	1119634.0	0.266759	Y
5	IC 240-582961/7	12.5	3.579155	25.0	918974.0	0.286332	Y
6	ICIS 240-582961/8	25.0	7.197857	25.0	1078248.0	0.287914	Y
7	IC 240-582961/9	37.5	10.846523	25.0	1104884.0	0.289241	Y
8	IC 240-582961/10	50.0	14.18931	25.0	1122507.0	0.283786	Y
9	IC 240-582961/11	62.5	18.166523	25.0	1149038.0	0.290664	Y



8/12/2023
10:47 AM

Calibration / Dibromomethane

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

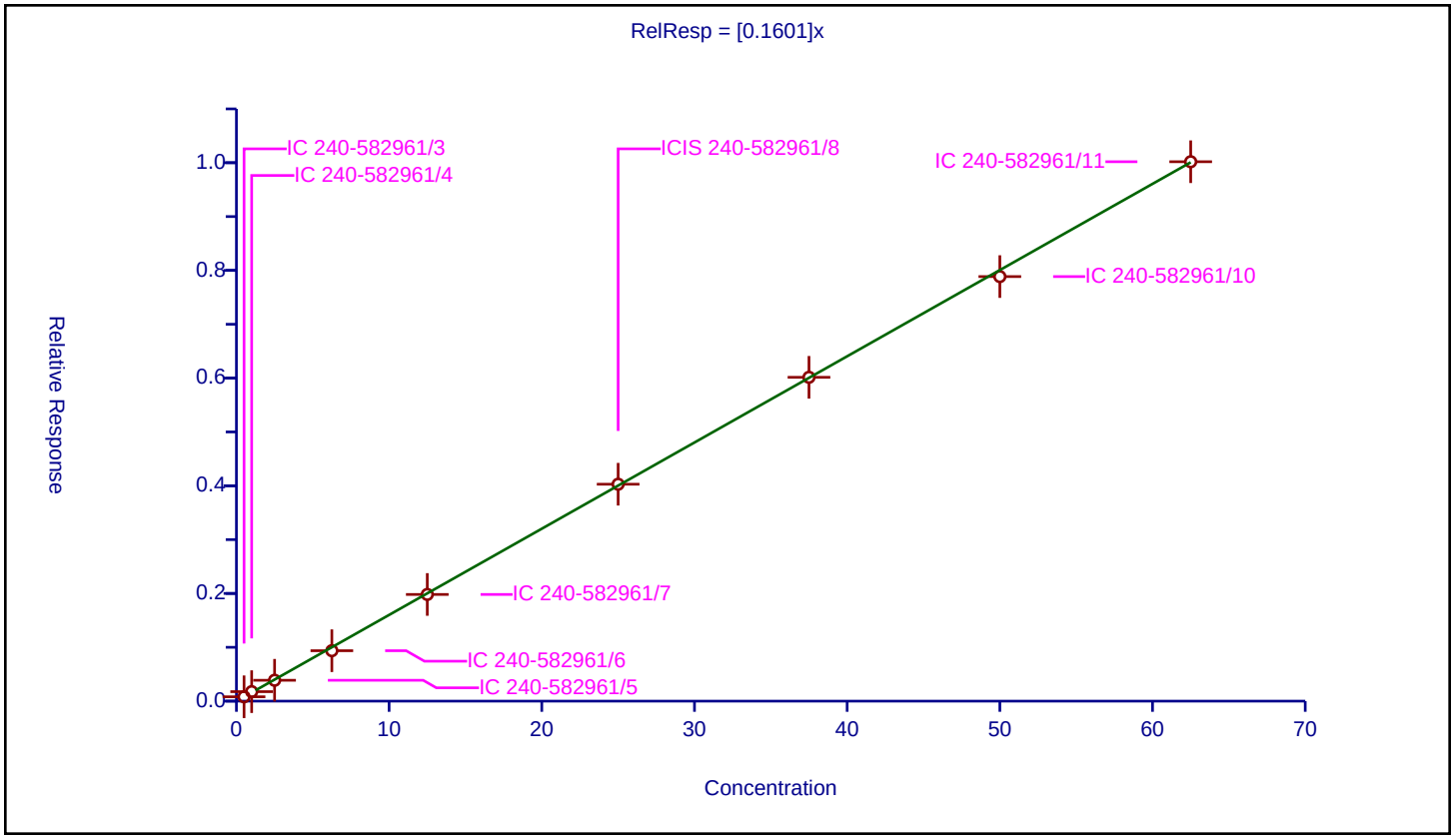
Curve Coefficients

Intercept:	0
Slope:	0.1601

Error Coefficients

Standard Error:	236000
Relative Standard Error:	4.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 240-582961/3	0.5	0.080784	25.0	1093033.0	0.161569	Y
2	IC 240-582961/4	1.0	0.176523	25.0	1111185.0	0.176523	Y
3	IC 240-582961/5	2.5	0.387625	25.0	1145567.0	0.15505	Y
4	IC 240-582961/6	6.25	0.936869	25.0	1119634.0	0.149899	Y
5	IC 240-582961/7	12.5	1.981449	25.0	918974.0	0.158516	Y
6	ICIS 240-582961/8	25.0	4.028827	25.0	1078248.0	0.161153	Y
7	IC 240-582961/9	37.5	6.014545	25.0	1104884.0	0.160388	Y
8	IC 240-582961/10	50.0	7.885341	25.0	1122507.0	0.157707	Y
9	IC 240-582961/11	62.5	10.018446	25.0	1149038.0	0.160295	Y



8/12/2023
10:47 AM

Calibration / 1,4-Dioxane

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

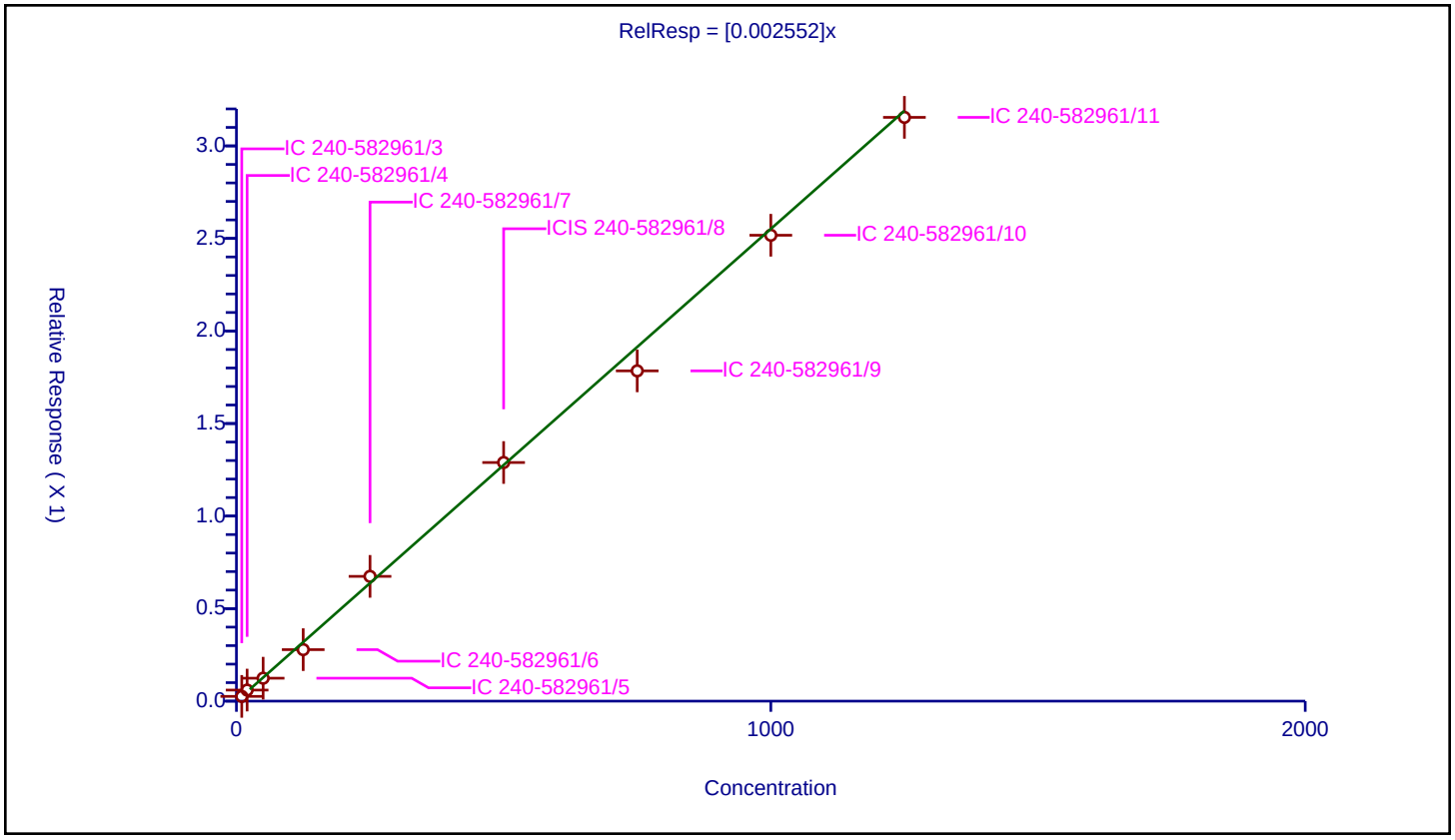
Curve Coefficients

Intercept:	0
Slope:	0.002552

Error Coefficients

Standard Error:	74100
Relative Standard Error:	8.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 240-582961/3	10.0	0.025731	25.0	1093033.0	0.002573	Y
2	IC 240-582961/4	20.0	0.059801	25.0	1111185.0	0.00299	Y
3	IC 240-582961/5	50.0	0.123934	25.0	1145567.0	0.002479	Y
4	IC 240-582961/6	125.0	0.278305	25.0	1119634.0	0.002226	Y
5	IC 240-582961/7	250.0	0.674203	25.0	918974.0	0.002697	Y
6	ICIS 240-582961/8	500.0	1.289383	25.0	1078248.0	0.002579	Y
7	IC 240-582961/9	750.0	1.784554	25.0	1104884.0	0.002379	Y
8	IC 240-582961/10	1000.0	2.517245	25.0	1122507.0	0.002517	Y
9	IC 240-582961/11	1250.0	3.154226	25.0	1149038.0	0.002523	Y



Calibration / Dichlorobromomethane

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

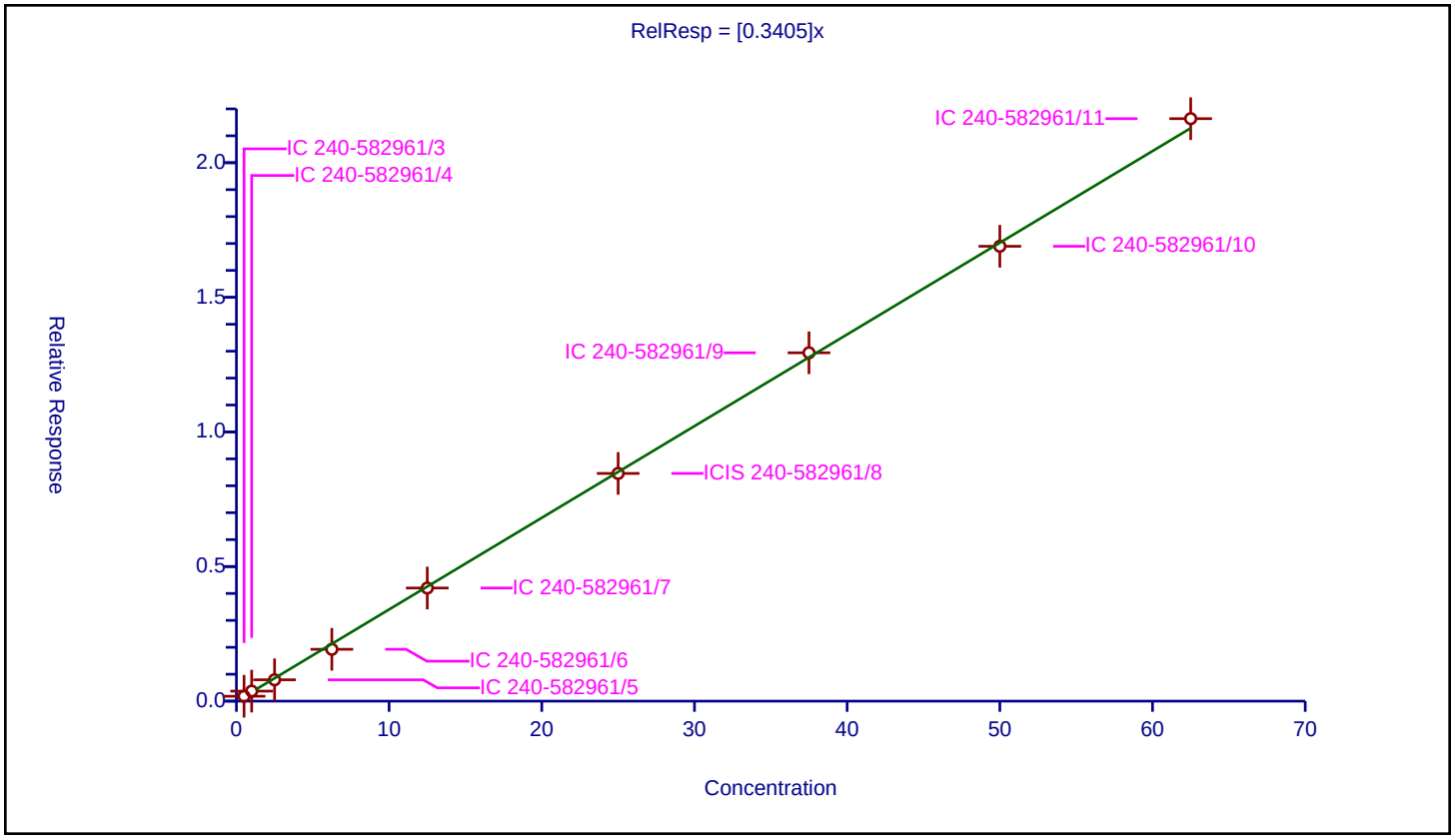
Curve Coefficients

Intercept:	0
Slope:	0.3405

Error Coefficients

Standard Error:	507000
Relative Standard Error:	5.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 240-582961/3	0.5	0.181422	25.0	1093033.0	0.362844	Y
2	IC 240-582961/4	1.0	0.372935	25.0	1111185.0	0.372935	Y
3	IC 240-582961/5	2.5	0.793297	25.0	1145567.0	0.317319	Y
4	IC 240-582961/6	6.25	1.925808	25.0	1119634.0	0.308129	Y
5	IC 240-582961/7	12.5	4.20205	25.0	918974.0	0.336164	Y
6	ICIS 240-582961/8	25.0	8.458444	25.0	1078248.0	0.338338	Y
7	IC 240-582961/9	37.5	12.940453	25.0	1104884.0	0.345079	Y
8	IC 240-582961/10	50.0	16.897177	25.0	1122507.0	0.337944	Y
9	IC 240-582961/11	62.5	21.636926	25.0	1149038.0	0.346191	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

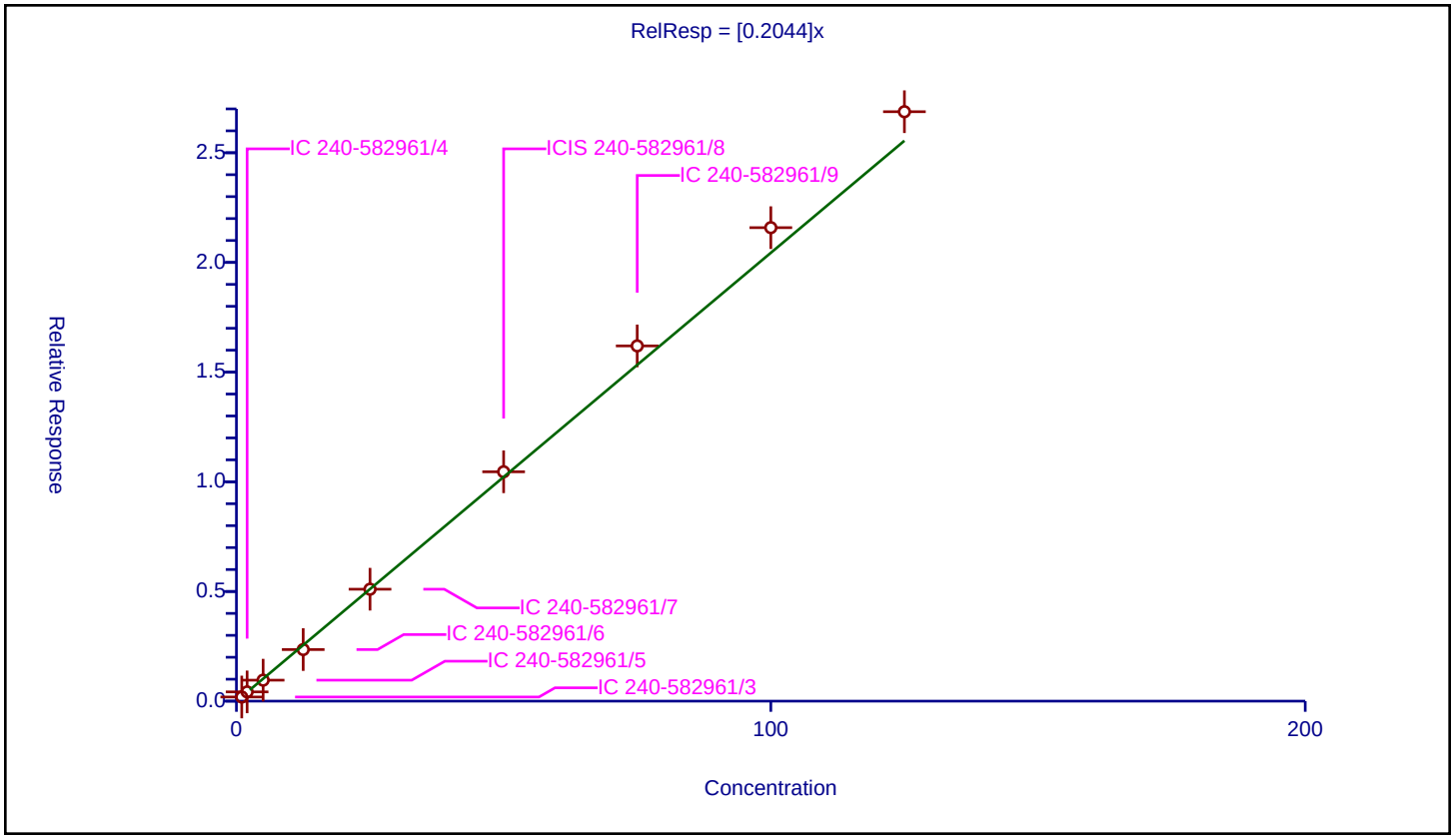
Curve Coefficients

Intercept:	0
Slope:	0.2044

Error Coefficients

Standard Error:	635000
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 240-582961/3	1.0	0.188855	25.0	1093033.0	0.188855	Y
2	IC 240-582961/4	2.0	0.422319	25.0	1111185.0	0.21116	Y
3	IC 240-582961/5	5.0	0.956295	25.0	1145567.0	0.191259	Y
4	IC 240-582961/6	12.5	2.351728	25.0	1119634.0	0.188138	Y
5	IC 240-582961/7	25.0	5.103246	25.0	918974.0	0.20413	Y
6	ICIS 240-582961/8	50.0	10.455781	25.0	1078248.0	0.209116	Y
7	IC 240-582961/9	75.0	16.194664	25.0	1104884.0	0.215929	Y
8	IC 240-582961/10	100.0	21.585367	25.0	1122507.0	0.215854	Y
9	IC 240-582961/11	125.0	26.871848	25.0	1149038.0	0.214975	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

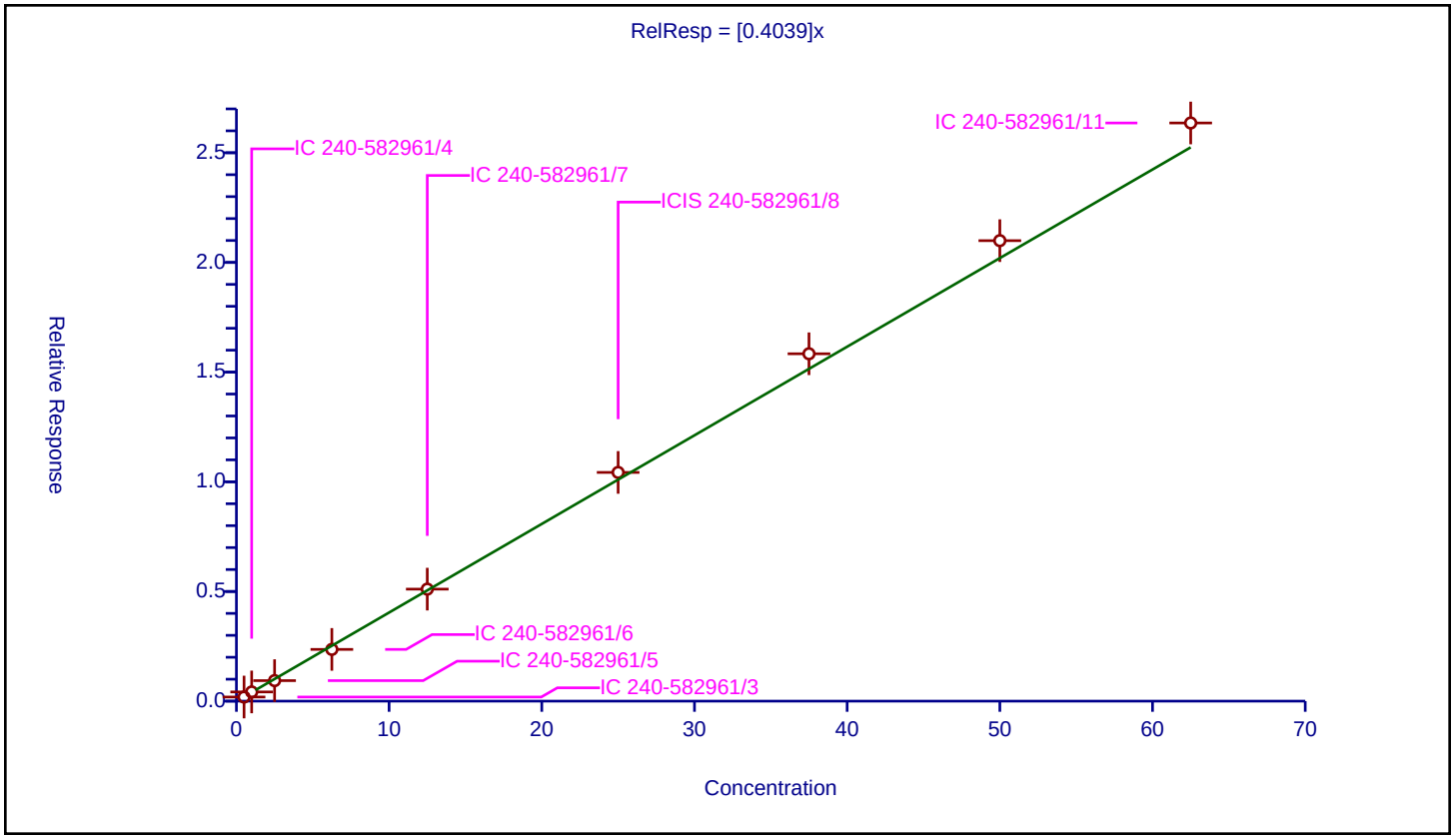
Curve Coefficients

Intercept:	0
Slope:	0.4039

Error Coefficients

Standard Error:	622000
Relative Standard Error:	5.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 240-582961/3	0.5	0.187574	25.0	1093033.0	0.375149	Y
2	IC 240-582961/4	1.0	0.419215	25.0	1111185.0	0.419215	Y
3	IC 240-582961/5	2.5	0.935585	25.0	1145567.0	0.374234	Y
4	IC 240-582961/6	6.25	2.358941	25.0	1119634.0	0.37743	Y
5	IC 240-582961/7	12.5	5.106755	25.0	918974.0	0.40854	Y
6	ICIS 240-582961/8	25.0	10.426613	25.0	1078248.0	0.417065	Y
7	IC 240-582961/9	37.5	15.836504	25.0	1104884.0	0.422307	Y
8	IC 240-582961/10	50.0	20.993789	25.0	1122507.0	0.419876	Y
9	IC 240-582961/11	62.5	26.358136	25.0	1149038.0	0.42173	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

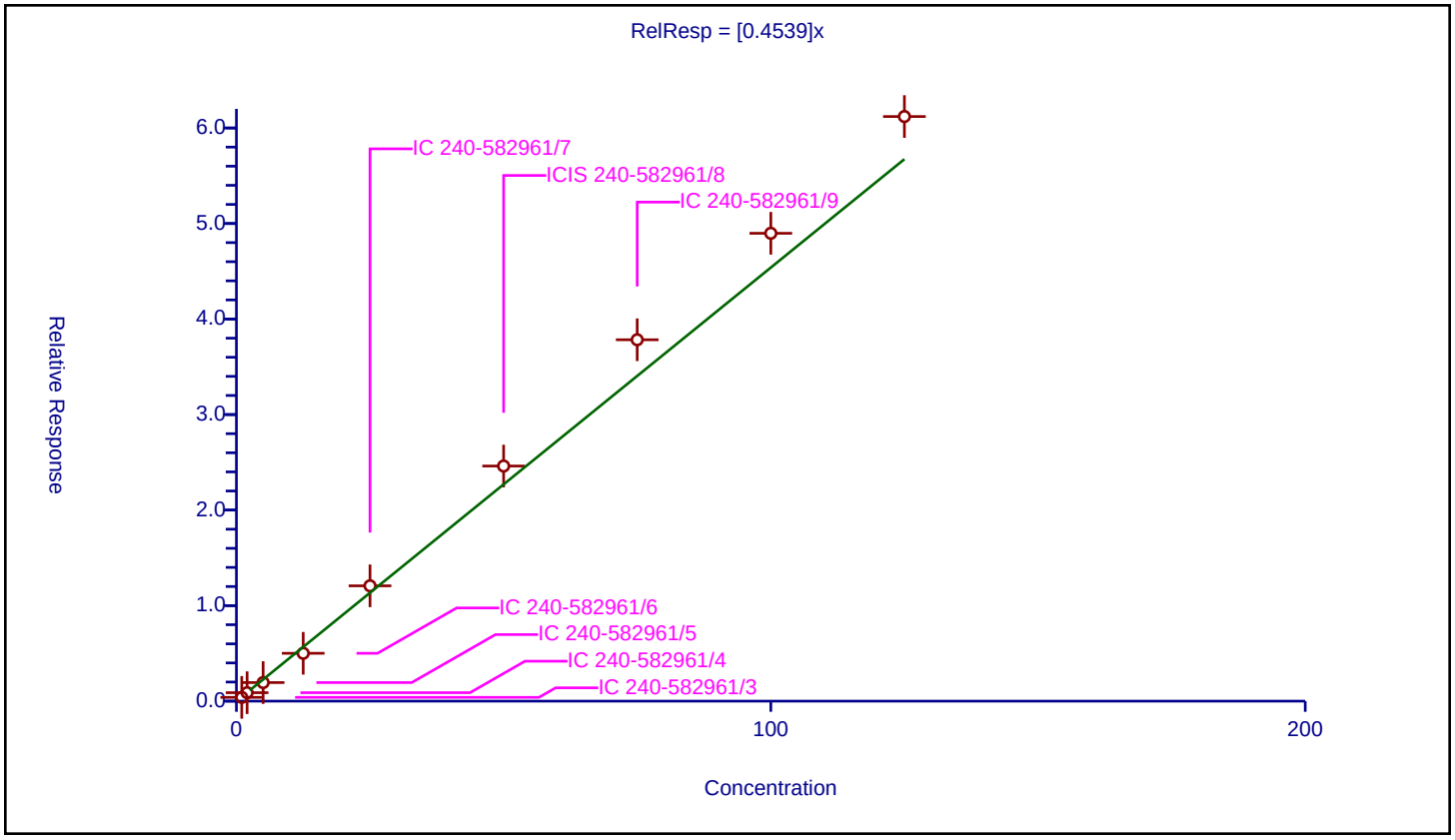
Curve Coefficients

Intercept:	0
Slope:	0.4539

Error Coefficients

Standard Error:	1450000
Relative Standard Error:	10.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 240-582961/3	1.0	0.394384	25.0	1093033.0	0.394384	Y
2	IC 240-582961/4	2.0	0.884214	25.0	1111185.0	0.442107	Y
3	IC 240-582961/5	5.0	1.943579	25.0	1145567.0	0.388716	Y
4	IC 240-582961/6	12.5	5.010365	25.0	1119634.0	0.400829	Y
5	IC 240-582961/7	25.0	12.071778	25.0	918974.0	0.482871	Y
6	ICIS 240-582961/8	50.0	24.613493	25.0	1078248.0	0.49227	Y
7	IC 240-582961/9	75.0	37.831551	25.0	1104884.0	0.504421	Y
8	IC 240-582961/10	100.0	48.976599	25.0	1122507.0	0.489766	Y
9	IC 240-582961/11	125.0	61.198389	25.0	1149038.0	0.489587	Y



8/12/2023
10:47 AM

Calibration / Toluene-d8 (Surr)

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

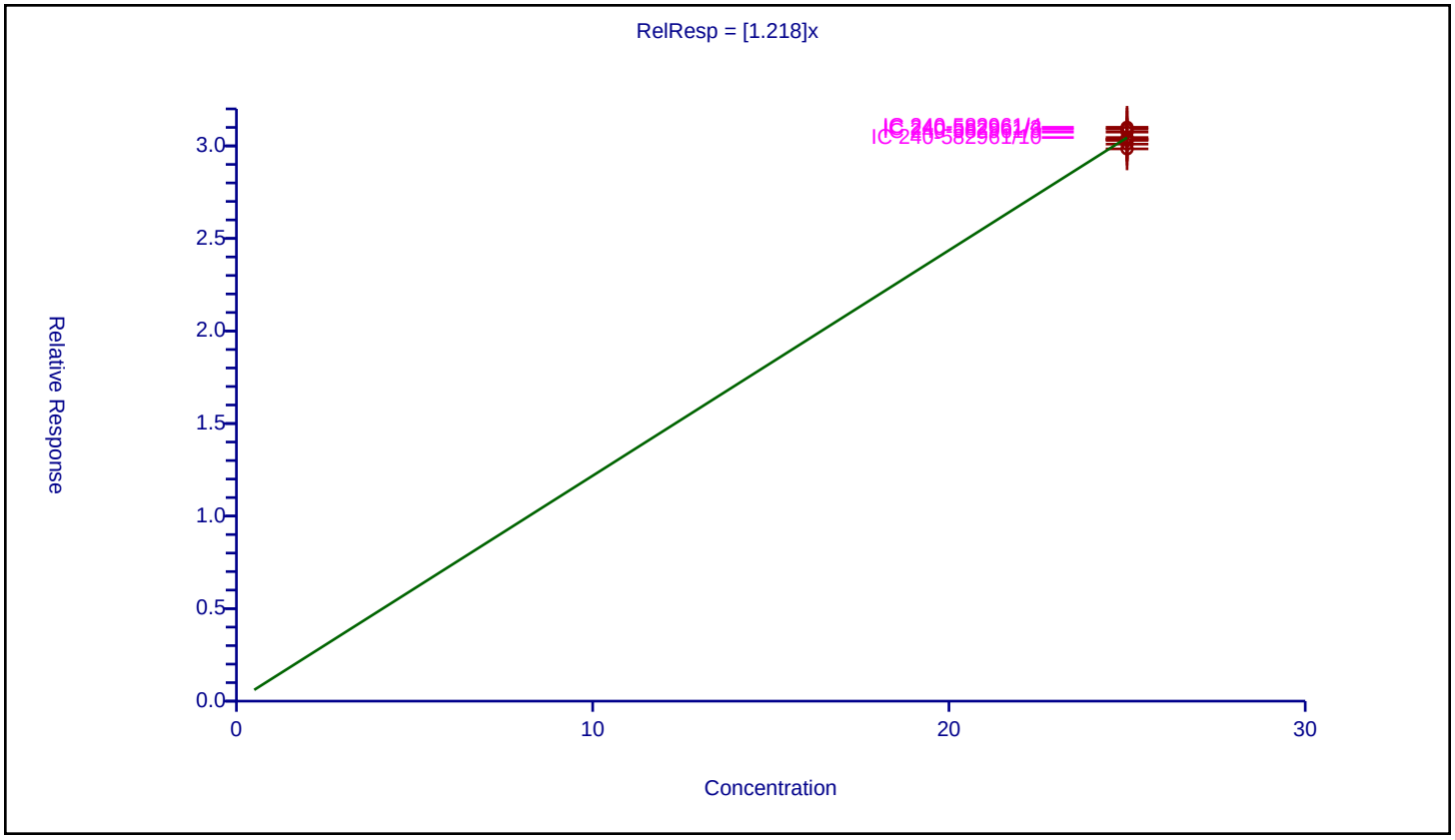
Curve Coefficients

Intercept:	0
Slope:	1.218

Error Coefficients

Standard Error:	1030000
Relative Standard Error:	1.2
Correlation Coefficient:	0.00000000000000000000
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 240-582961/3	25.0	30.906993	25.0	778848.0	1.23628	Y
2	IC 240-582961/4	25.0	31.006873	25.0	788501.0	1.240275	Y
3	IC 240-582961/5	25.0	30.298687	25.0	832126.0	1.211947	Y
4	IC 240-582961/6	25.0	29.839978	25.0	818981.0	1.193599	Y
5	IC 240-582961/7	25.0	30.335478	25.0	672995.0	1.213419	Y
6	ICIS 240-582961/8	25.0	30.09542	25.0	790347.0	1.203817	Y
7	IC 240-582961/9	25.0	30.746828	25.0	809303.0	1.229873	Y
8	IC 240-582961/10	25.0	30.453191	25.0	839183.0	1.218128	Y
9	IC 240-582961/11	25.0	30.365584	25.0	842010.0	1.214623	Y



Calibration / Toluene

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

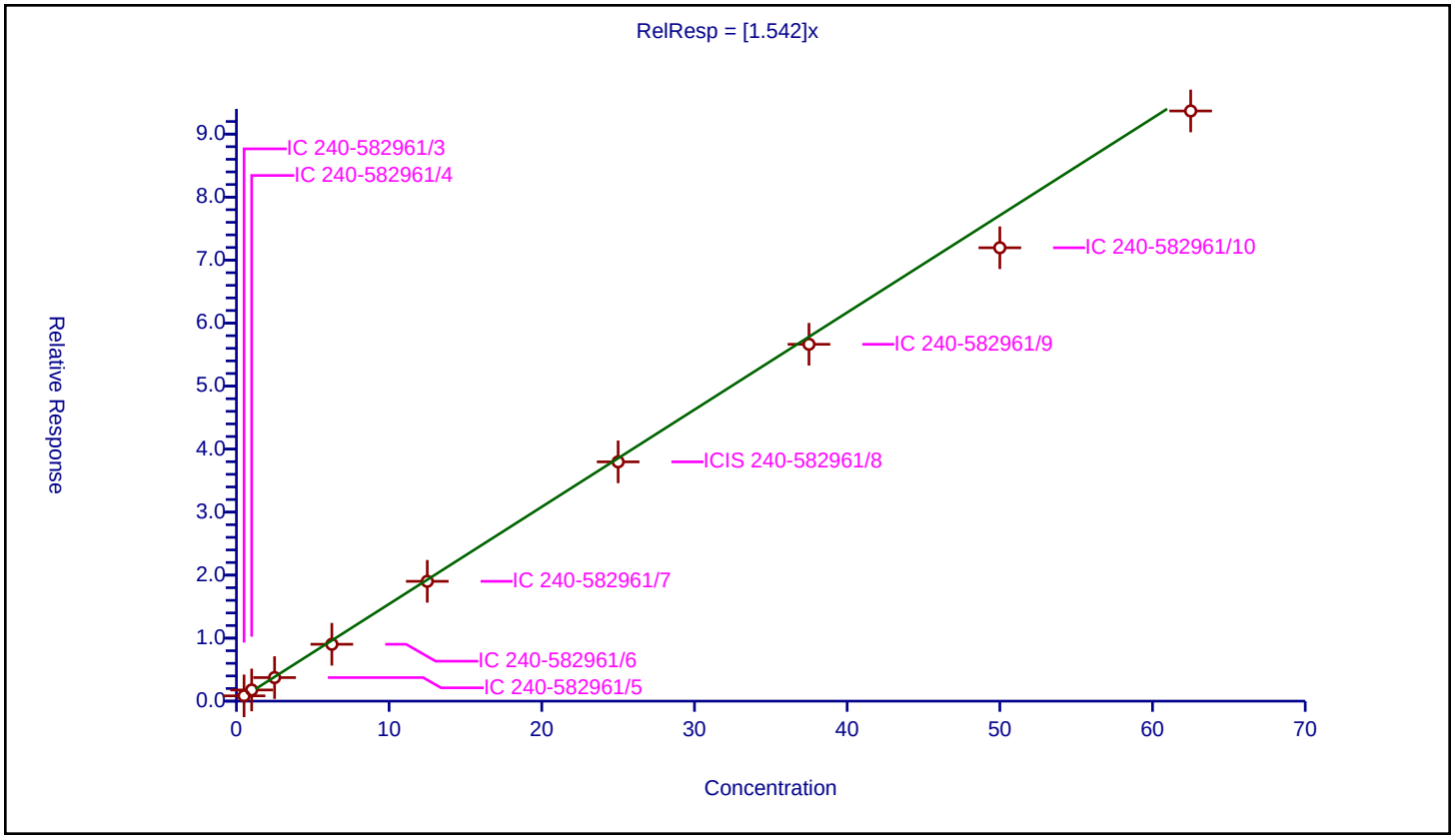
Curve Coefficients

Intercept:	0
Slope:	1.542

Error Coefficients

Standard Error:	1620000
Relative Standard Error:	7.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 240-582961/3	0.5	0.837776	25.0	778848.0	1.675552	Y
2	IC 240-582961/4	1.0	1.773809	25.0	788501.0	1.773809	Y
3	IC 240-582961/5	2.5	3.739247	25.0	832126.0	1.495699	Y
4	IC 240-582961/6	6.25	9.026736	25.0	818981.0	1.444278	Y
5	IC 240-582961/7	12.5	19.015892	25.0	672995.0	1.521271	Y
6	ICIS 240-582961/8	25.0	37.980374	25.0	790347.0	1.519215	Y
7	IC 240-582961/9	37.5	56.639479	25.0	809303.0	1.510386	Y
8	IC 240-582961/10	50.0	71.960675	25.0	839183.0	1.439213	Y
9	IC 240-582961/11	62.5	93.668632	25.0	842010.0	1.498698	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

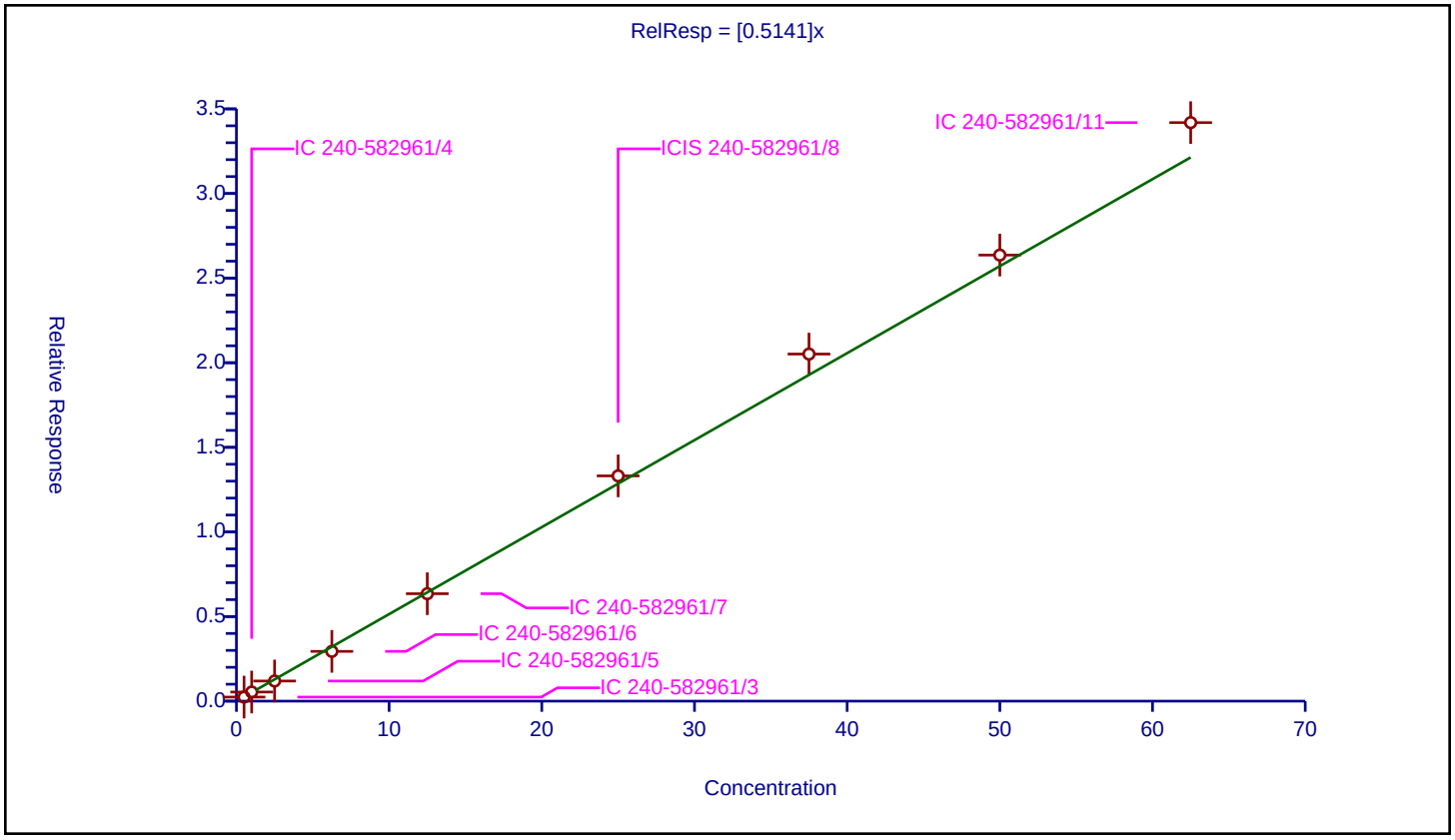
Curve Coefficients

Intercept:	0
Slope:	0.5141

Error Coefficients

Standard Error:	588000
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 240-582961/3	0.5	0.240194	25.0	778848.0	0.480389	Y
2	IC 240-582961/4	1.0	0.538997	25.0	788501.0	0.538997	Y
3	IC 240-582961/5	2.5	1.189333	25.0	832126.0	0.475733	Y
4	IC 240-582961/6	6.25	2.941124	25.0	818981.0	0.47058	Y
5	IC 240-582961/7	12.5	6.348264	25.0	672995.0	0.507861	Y
6	ICIS 240-582961/8	25.0	13.312191	25.0	790347.0	0.532488	Y
7	IC 240-582961/9	37.5	20.511632	25.0	809303.0	0.546977	Y
8	IC 240-582961/10	50.0	26.360192	25.0	839183.0	0.527204	Y
9	IC 240-582961/11	62.5	34.188875	25.0	842010.0	0.547022	Y



8/12/2023
10:47 AM

Calibration / Ethyl methacrylate

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

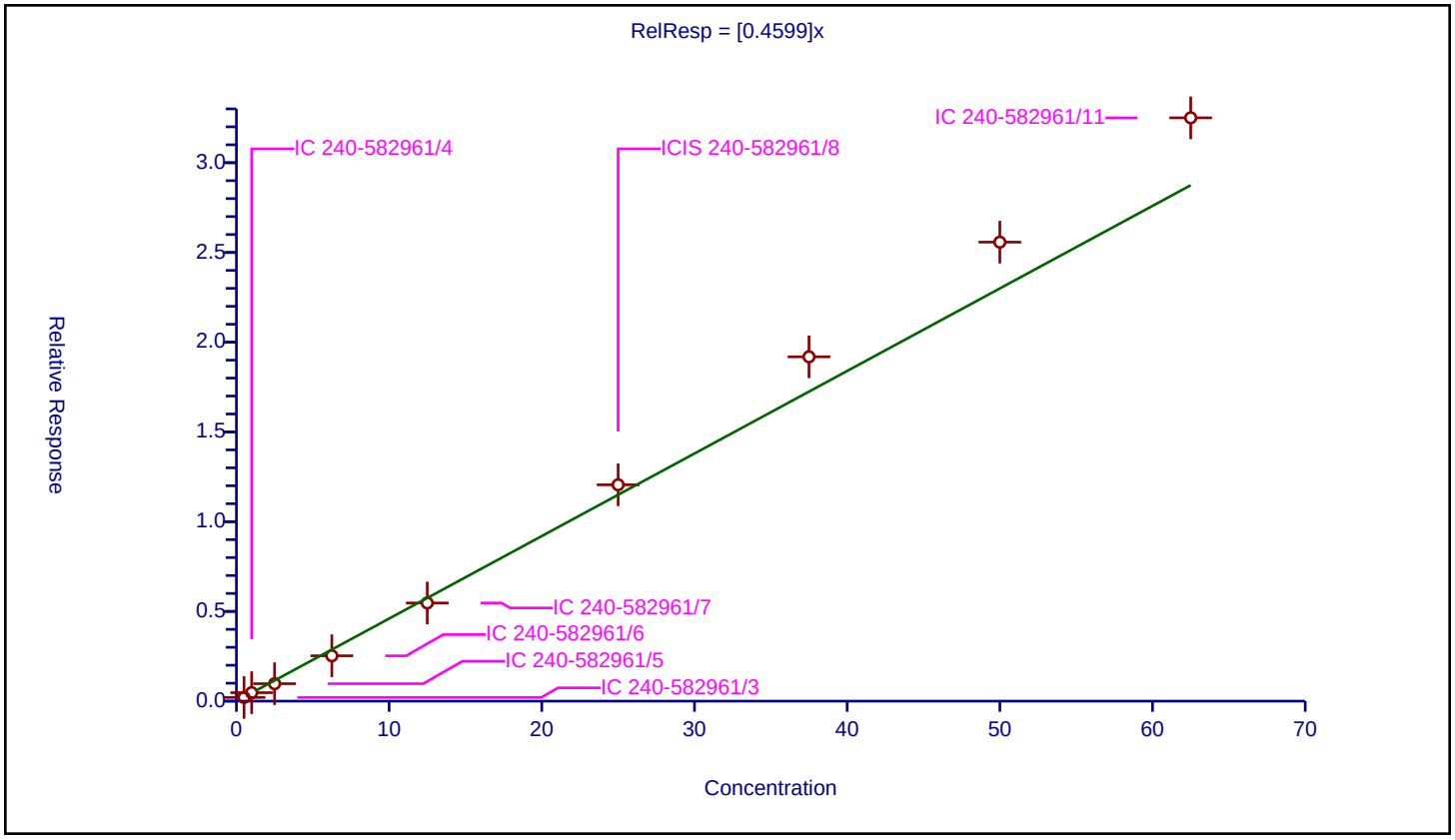
Curve Coefficients

Intercept:	0
Slope:	0.4599

Error Coefficients

Standard Error:	559000
Relative Standard Error:	11.0
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 240-582961/3	0.5	0.20556	25.0	778848.0	0.41112	Y
2	IC 240-582961/4	1.0	0.472193	25.0	788501.0	0.472193	Y
3	IC 240-582961/5	2.5	0.971848	25.0	832126.0	0.388739	Y
4	IC 240-582961/6	6.25	2.52689	25.0	818981.0	0.404302	Y
5	IC 240-582961/7	12.5	5.469134	25.0	672995.0	0.437531	Y
6	ICIS 240-582961/8	25.0	12.054515	25.0	790347.0	0.482181	Y
7	IC 240-582961/9	37.5	19.187004	25.0	809303.0	0.511653	Y
8	IC 240-582961/10	50.0	25.575977	25.0	839183.0	0.51152	Y
9	IC 240-582961/11	62.5	32.500772	25.0	842010.0	0.520012	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

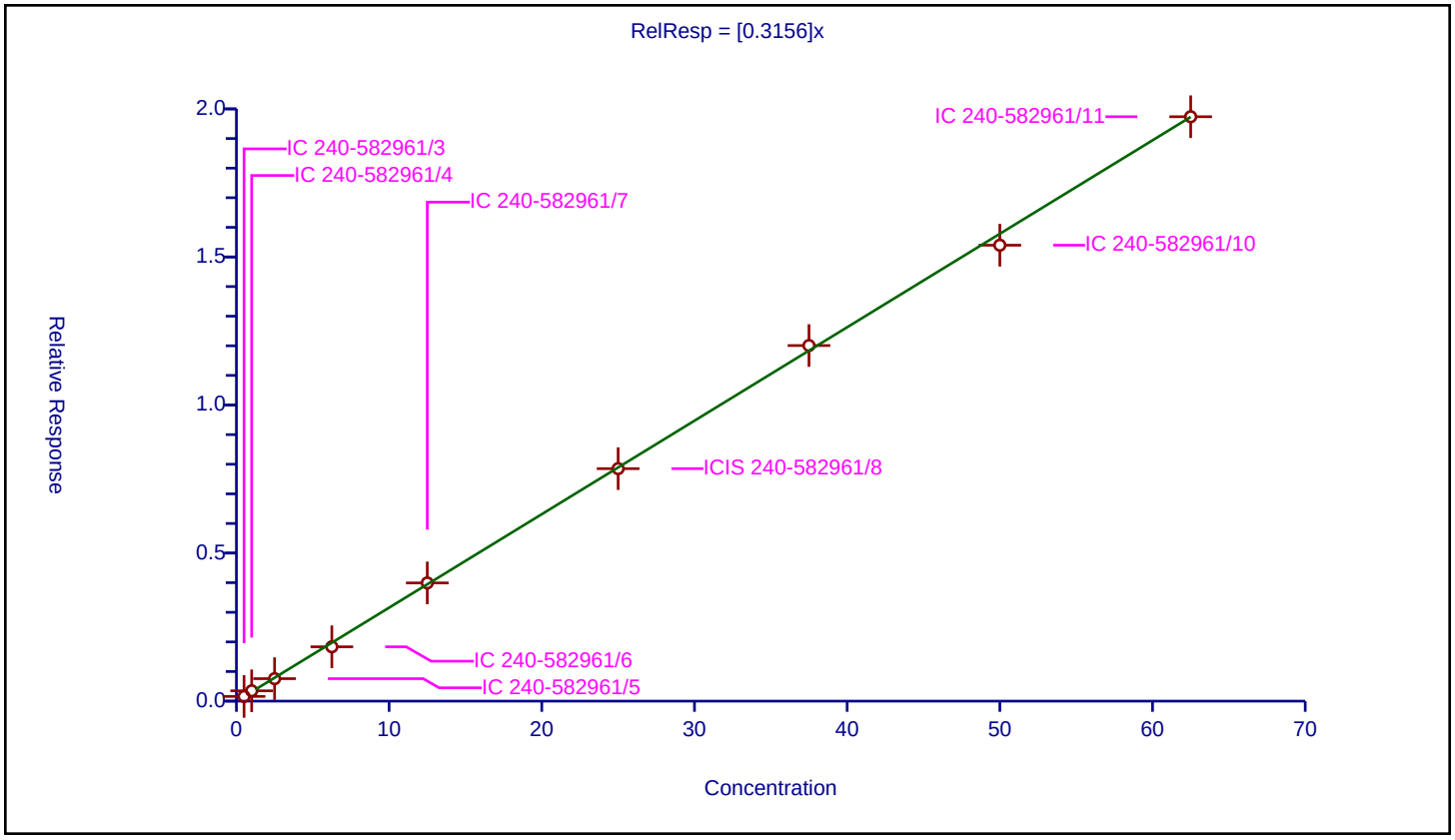
Curve Coefficients

Intercept:	0
Slope:	0.3156

Error Coefficients

Standard Error:	342000
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 240-582961/3	0.5	0.159113	25.0	778848.0	0.318226	Y
2	IC 240-582961/4	1.0	0.348224	25.0	788501.0	0.348224	Y
3	IC 240-582961/5	2.5	0.758509	25.0	832126.0	0.303404	Y
4	IC 240-582961/6	6.25	1.834933	25.0	818981.0	0.293589	Y
5	IC 240-582961/7	12.5	3.992192	25.0	672995.0	0.319375	Y
6	ICIS 240-582961/8	25.0	7.851836	25.0	790347.0	0.314073	Y
7	IC 240-582961/9	37.5	12.008821	25.0	809303.0	0.320235	Y
8	IC 240-582961/10	50.0	15.396493	25.0	839183.0	0.30793	Y
9	IC 240-582961/11	62.5	19.735484	25.0	842010.0	0.315768	Y



Calibration / Tetrachloroethene

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

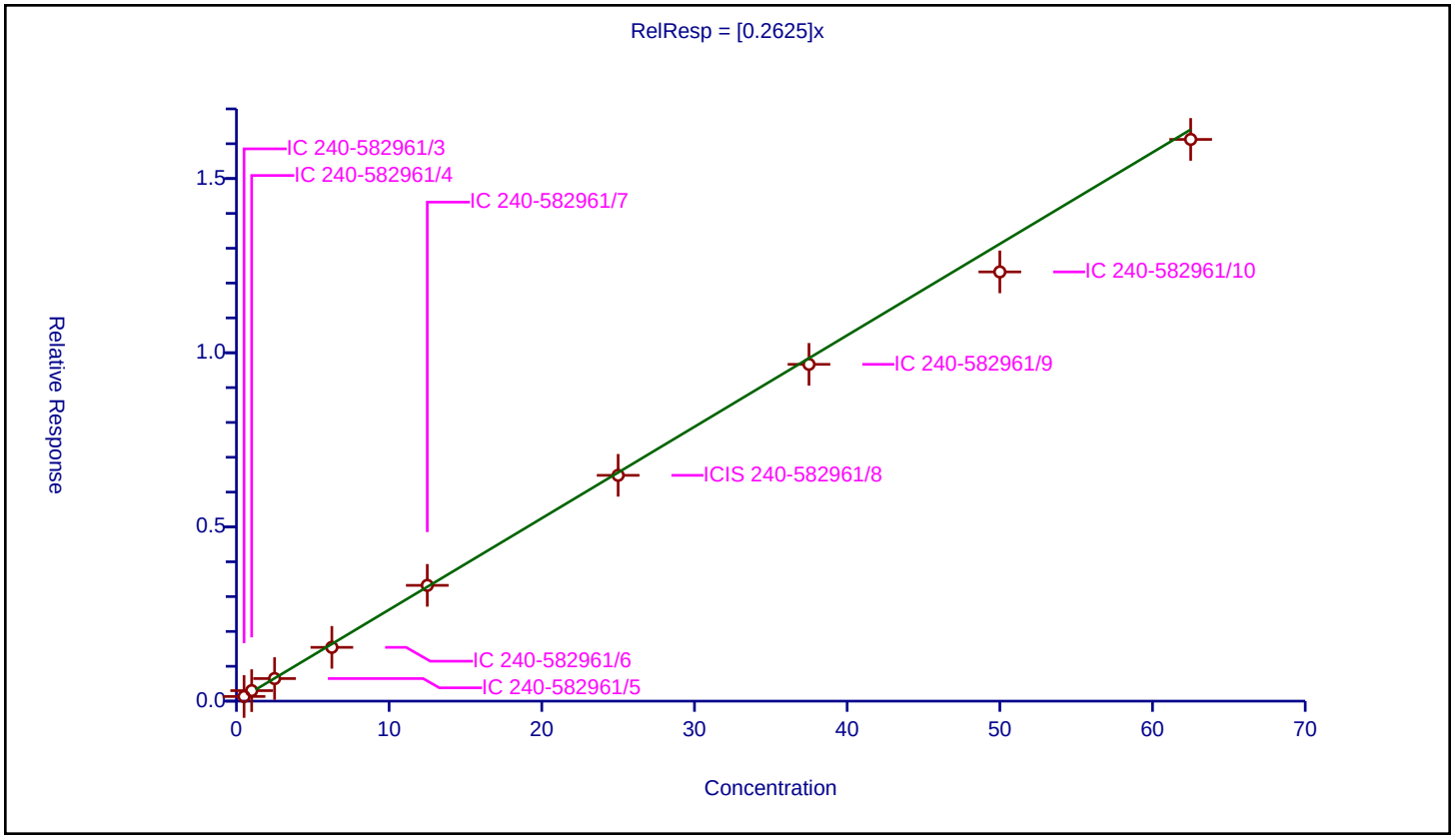
Curve Coefficients

Intercept:	0
Slope:	0.2625

Error Coefficients

Standard Error:	278000
Relative Standard Error:	6.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 240-582961/3	0.5	0.133723	25.0	778848.0	0.267446	Y
2	IC 240-582961/4	1.0	0.301331	25.0	788501.0	0.301331	Y
3	IC 240-582961/5	2.5	0.648069	25.0	832126.0	0.259228	Y
4	IC 240-582961/6	6.25	1.544297	25.0	818981.0	0.247088	Y
5	IC 240-582961/7	12.5	3.323316	25.0	672995.0	0.265865	Y
6	ICIS 240-582961/8	25.0	6.482216	25.0	790347.0	0.259289	Y
7	IC 240-582961/9	37.5	9.667609	25.0	809303.0	0.257803	Y
8	IC 240-582961/10	50.0	12.321031	25.0	839183.0	0.246421	Y
9	IC 240-582961/11	62.5	16.123858	25.0	842010.0	0.257982	Y



Calibration / 1,3-Dichloropropane

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

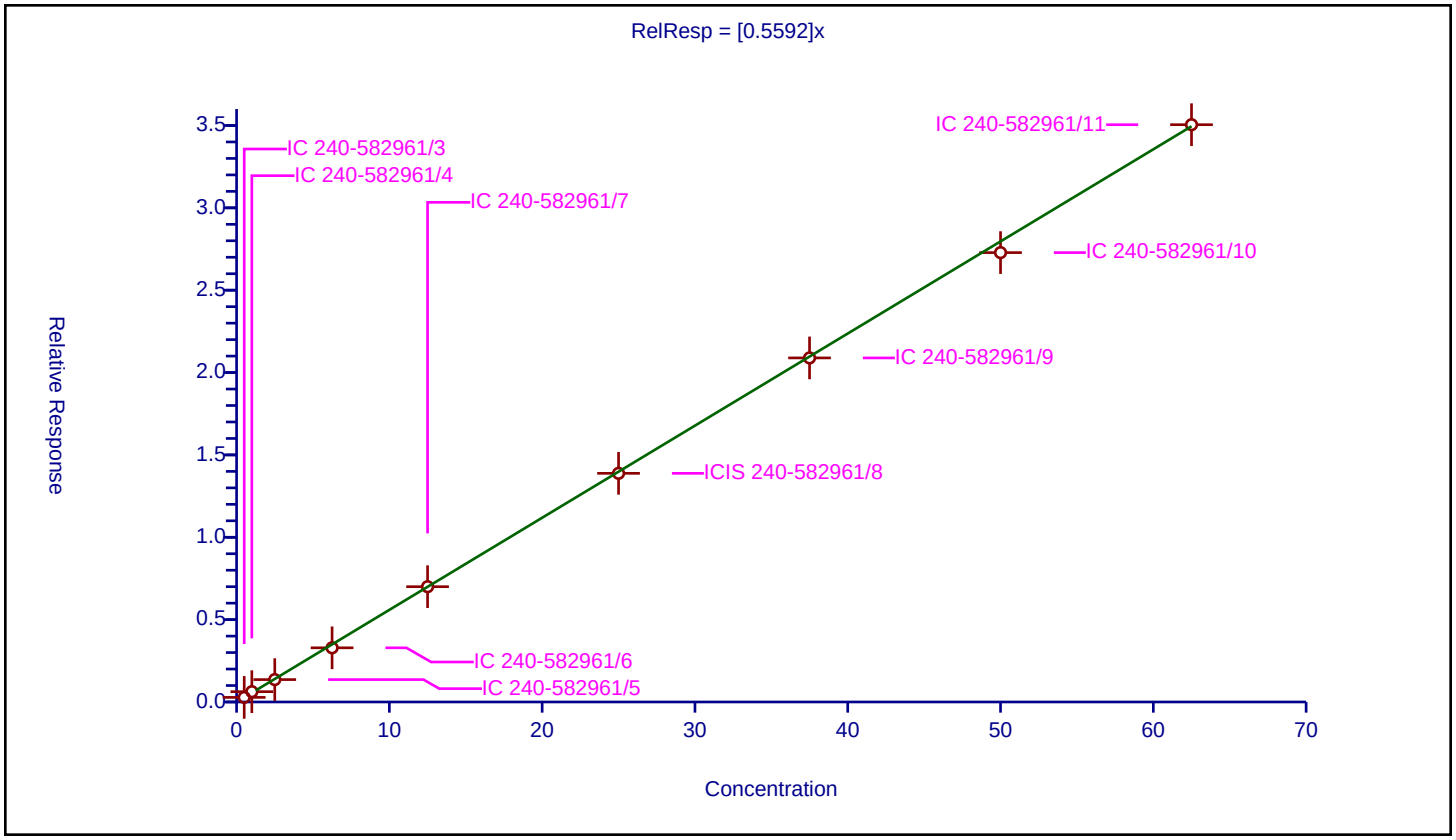
Curve Coefficients

Intercept:	0
Slope:	0.5592

Error Coefficients

Standard Error:	605000
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 240-582961/3	0.5	0.279772	25.0	778848.0	0.559544	Y
2	IC 240-582961/4	1.0	0.625237	25.0	788501.0	0.625237	Y
3	IC 240-582961/5	2.5	1.358598	25.0	832126.0	0.543439	Y
4	IC 240-582961/6	6.25	3.288294	25.0	818981.0	0.526127	Y
5	IC 240-582961/7	12.5	6.999012	25.0	672995.0	0.559921	Y
6	ICIS 240-582961/8	25.0	13.88213	25.0	790347.0	0.555285	Y
7	IC 240-582961/9	37.5	20.889395	25.0	809303.0	0.557051	Y
8	IC 240-582961/10	50.0	27.281326	25.0	839183.0	0.545627	Y
9	IC 240-582961/11	62.5	35.047743	25.0	842010.0	0.560764	Y



Calibration / 2-Hexanone

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

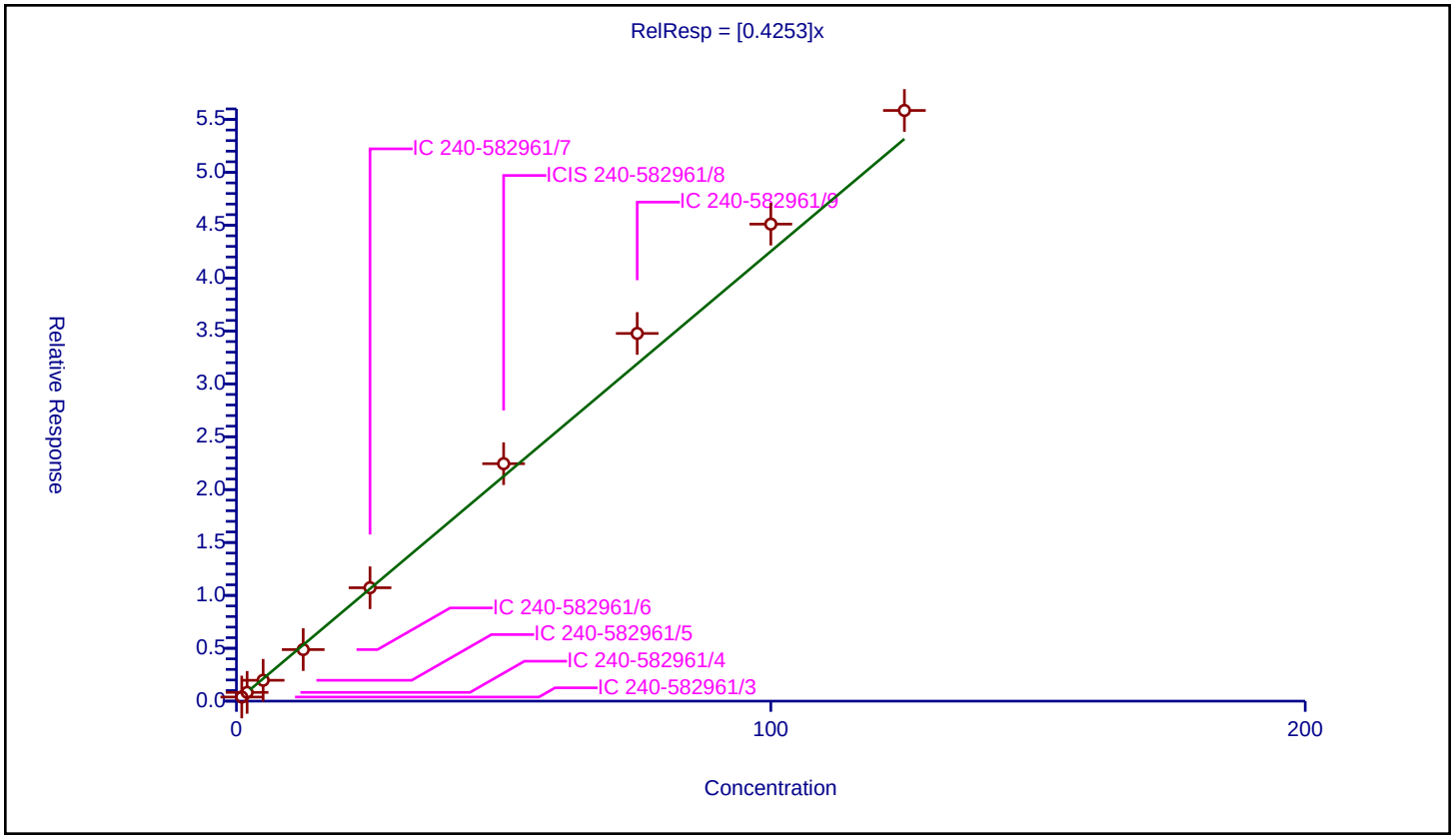
Curve Coefficients

Intercept:	0
Slope:	0.4253

Error Coefficients

Standard Error:	982000
Relative Standard Error:	6.8
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 240-582961/3	1.0	0.389518	25.0	778848.0	0.389518	Y
2	IC 240-582961/4	2.0	0.828534	25.0	788501.0	0.414267	Y
3	IC 240-582961/5	5.0	1.972418	25.0	832126.0	0.394484	Y
4	IC 240-582961/6	12.5	4.874594	25.0	818981.0	0.389968	Y
5	IC 240-582961/7	25.0	10.720882	25.0	672995.0	0.428835	Y
6	ICIS 240-582961/8	50.0	22.451942	25.0	790347.0	0.449039	Y
7	IC 240-582961/9	75.0	34.768745	25.0	809303.0	0.463583	Y
8	IC 240-582961/10	100.0	45.106252	25.0	839183.0	0.451063	Y
9	IC 240-582961/11	125.0	55.851237	25.0	842010.0	0.44681	Y



Calibration / Chlorodibromomethane

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

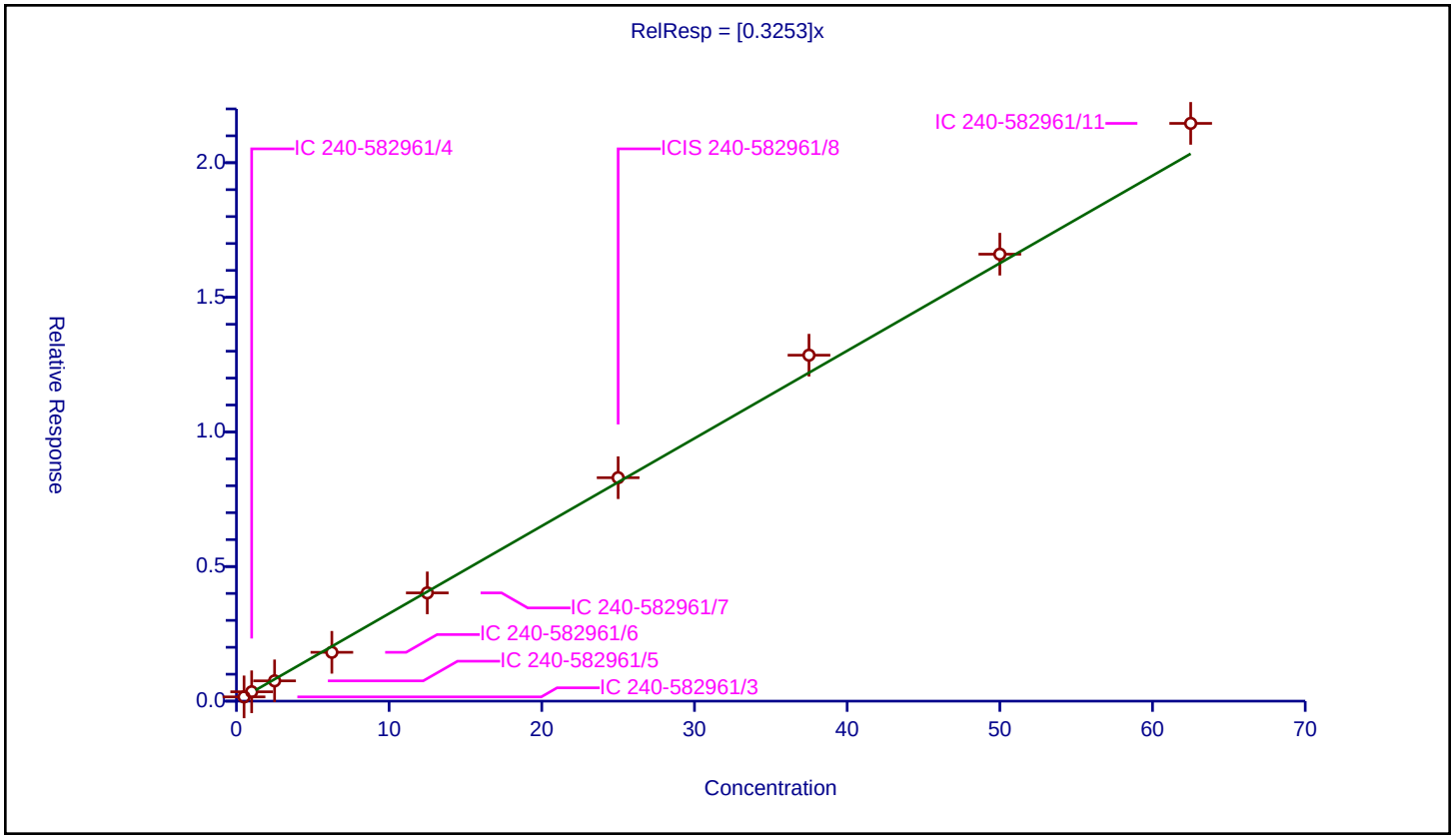
Curve Coefficients

Intercept:	0
Slope:	0.3253

Error Coefficients

Standard Error:	369000
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 240-582961/3	0.5	0.158214	25.0	778848.0	0.316429	Y
2	IC 240-582961/4	1.0	0.348192	25.0	788501.0	0.348192	Y
3	IC 240-582961/5	2.5	0.753341	25.0	832126.0	0.301337	Y
4	IC 240-582961/6	6.25	1.814084	25.0	818981.0	0.290253	Y
5	IC 240-582961/7	12.5	4.021352	25.0	672995.0	0.321708	Y
6	ICIS 240-582961/8	25.0	8.29993	25.0	790347.0	0.331997	Y
7	IC 240-582961/9	37.5	12.85146	25.0	809303.0	0.342706	Y
8	IC 240-582961/10	50.0	16.60347	25.0	839183.0	0.332069	Y
9	IC 240-582961/11	62.5	21.461384	25.0	842010.0	0.343382	Y



8/12/2023
10:47 AM

Calibration / Ethylene Dibromide

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

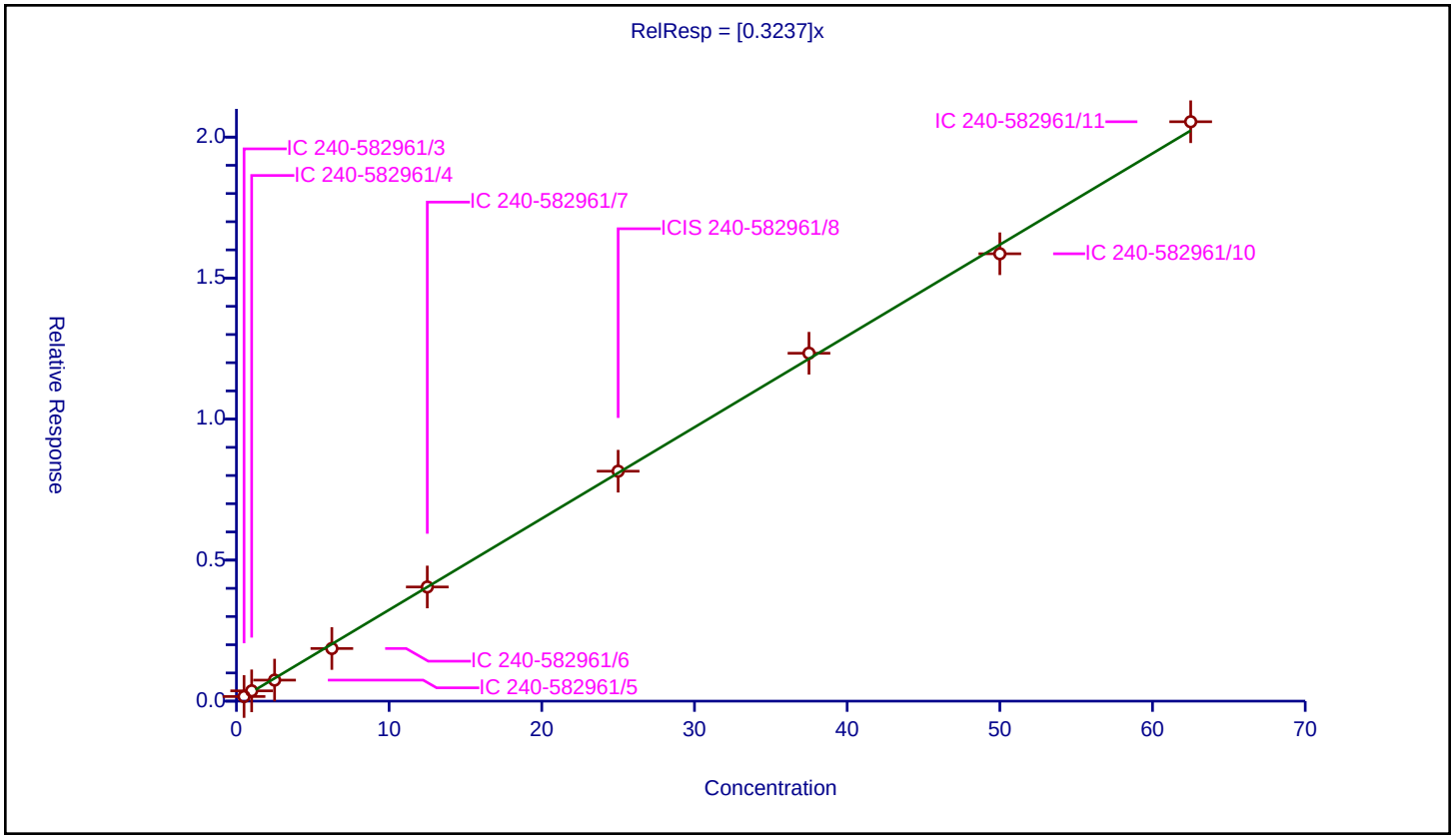
Curve Coefficients

Intercept:	0
Slope:	0.3237

Error Coefficients

Standard Error:	354000
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 240-582961/3	0.5	0.163382	25.0	778848.0	0.326765	Y
2	IC 240-582961/4	1.0	0.364743	25.0	788501.0	0.364743	Y
3	IC 240-582961/5	2.5	0.74532	25.0	832126.0	0.298128	Y
4	IC 240-582961/6	6.25	1.866771	25.0	818981.0	0.298683	Y
5	IC 240-582961/7	12.5	4.04769	25.0	672995.0	0.323815	Y
6	ICIS 240-582961/8	25.0	8.153159	25.0	790347.0	0.326126	Y
7	IC 240-582961/9	37.5	12.336047	25.0	809303.0	0.328961	Y
8	IC 240-582961/10	50.0	15.863316	25.0	839183.0	0.317266	Y
9	IC 240-582961/11	62.5	20.544382	25.0	842010.0	0.32871	Y



8/12/2023
10:47 AM

Calibration / Chlorobenzene

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

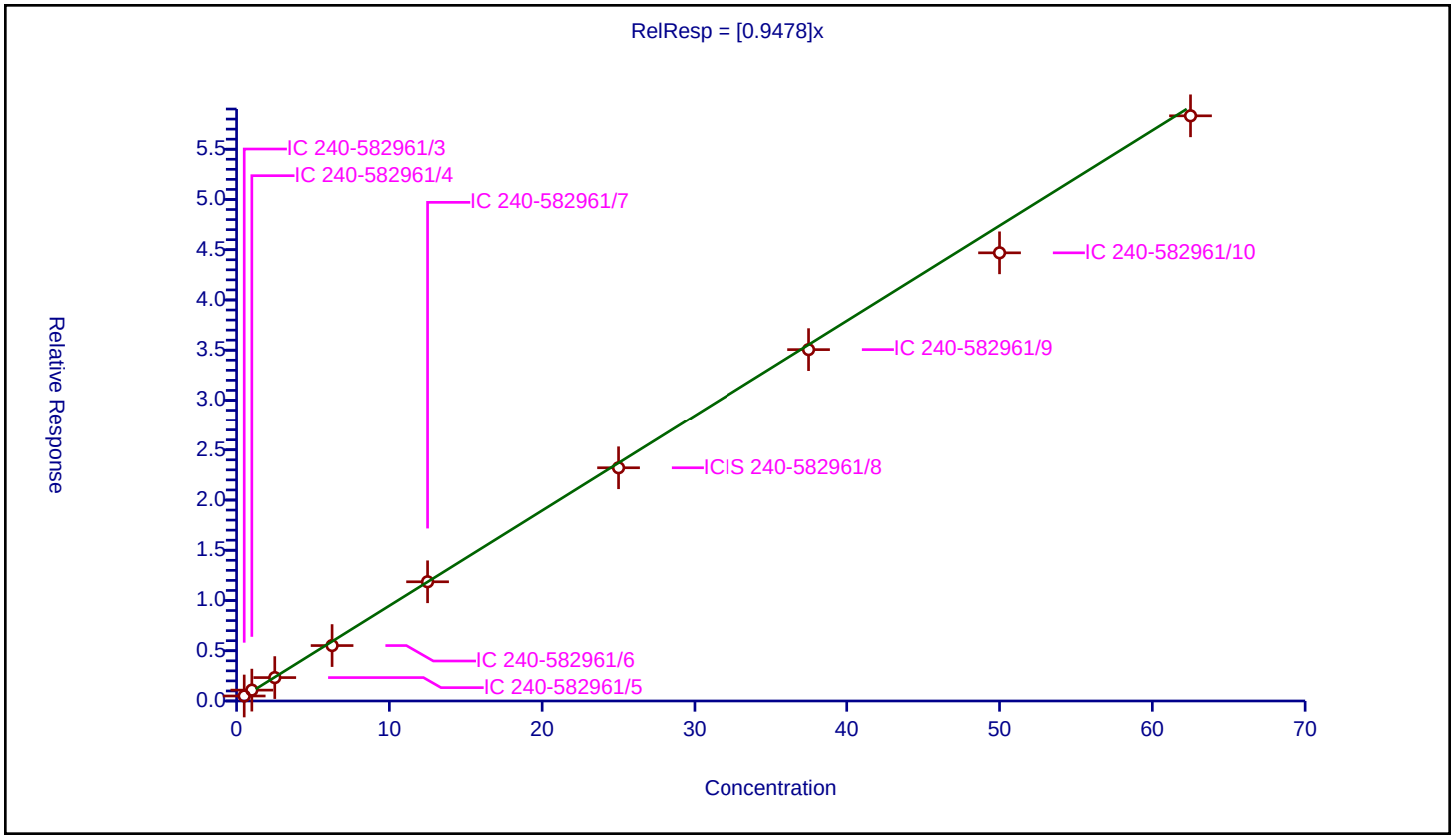
Curve Coefficients

Intercept:	0
Slope:	0.9478

Error Coefficients

Standard Error:	1000000
Relative Standard Error:	6.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 240-582961/3	0.5	0.498268	25.0	778848.0	0.996536	Y
2	IC 240-582961/4	1.0	1.081609	25.0	788501.0	1.081609	Y
3	IC 240-582961/5	2.5	2.326931	25.0	832126.0	0.930773	Y
4	IC 240-582961/6	6.25	5.513956	25.0	818981.0	0.882233	Y
5	IC 240-582961/7	12.5	11.861938	25.0	672995.0	0.948955	Y
6	ICIS 240-582961/8	25.0	23.208255	25.0	790347.0	0.92833	Y
7	IC 240-582961/9	37.5	35.058347	25.0	809303.0	0.934889	Y
8	IC 240-582961/10	50.0	44.690878	25.0	839183.0	0.893818	Y
9	IC 240-582961/11	62.5	58.322971	25.0	842010.0	0.933168	Y



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

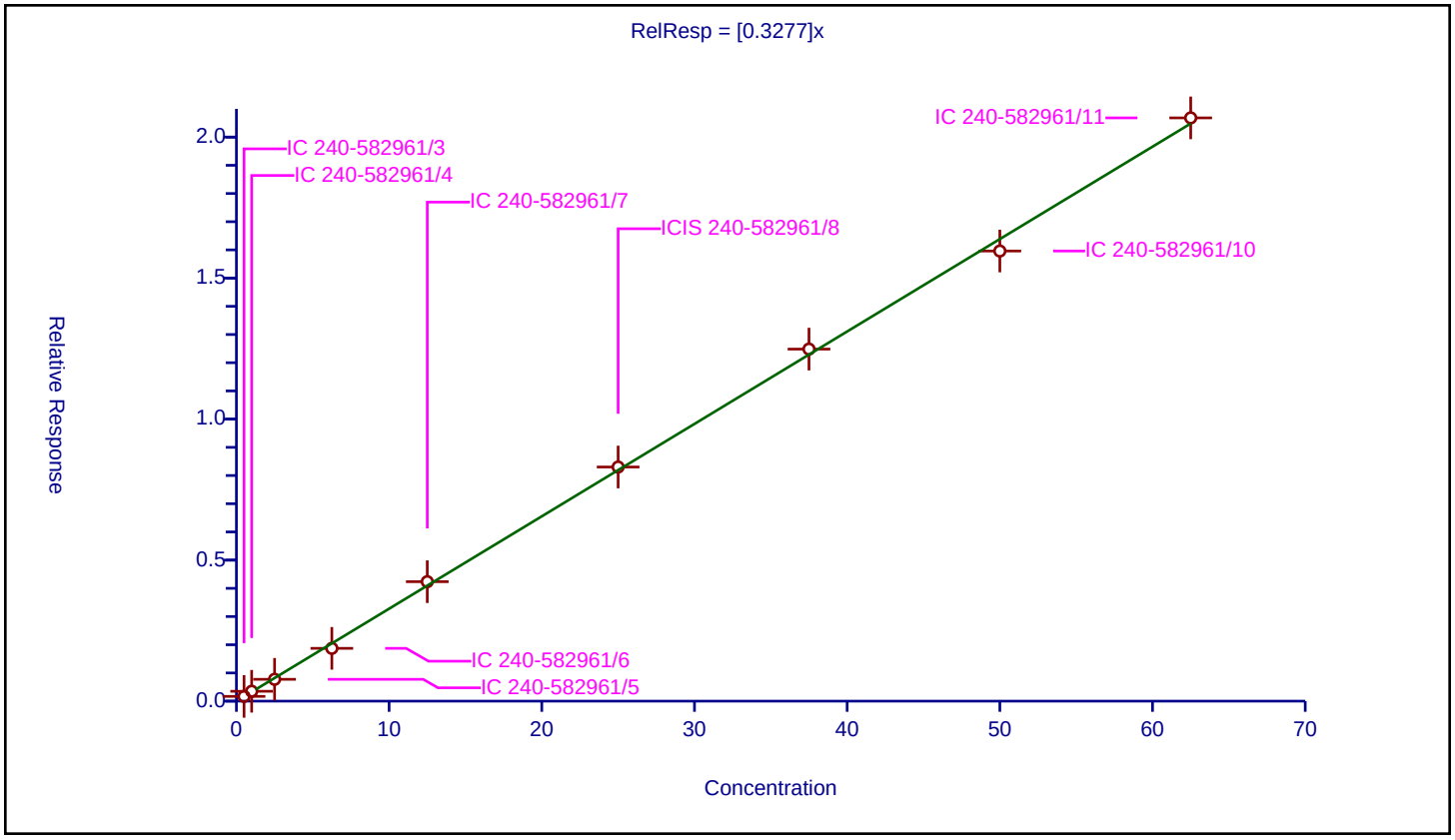
Curve Coefficients

Intercept:	0
Slope:	0.3277

Error Coefficients

Standard Error:	357000
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 240-582961/3	0.5	0.168101	25.0	778848.0	0.336202	Y
2	IC 240-582961/4	1.0	0.349746	25.0	788501.0	0.349746	Y
3	IC 240-582961/5	2.5	0.773981	25.0	832126.0	0.309593	Y
4	IC 240-582961/6	6.25	1.872357	25.0	818981.0	0.299577	Y
5	IC 240-582961/7	12.5	4.235841	25.0	672995.0	0.338867	Y
6	ICIS 240-582961/8	25.0	8.301322	25.0	790347.0	0.332053	Y
7	IC 240-582961/9	37.5	12.482624	25.0	809303.0	0.33287	Y
8	IC 240-582961/10	50.0	15.960672	25.0	839183.0	0.319213	Y
9	IC 240-582961/11	62.5	20.68099	25.0	842010.0	0.330896	Y



Calibration / Ethylbenzene

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

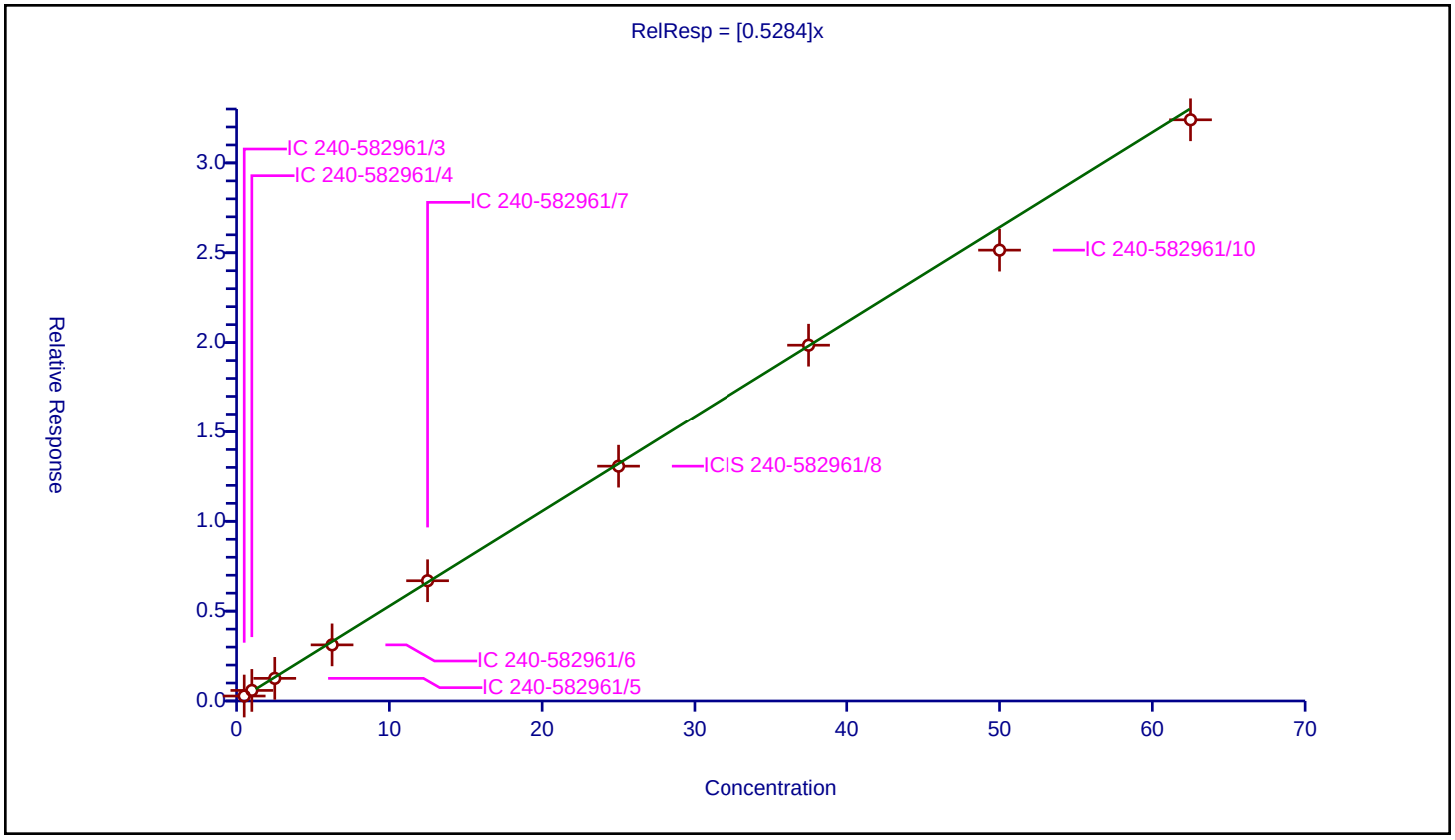
Curve Coefficients

Intercept:	0
Slope:	0.5284

Error Coefficients

Standard Error:	563000
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 240-582961/3	0.5	0.277365	25.0	778848.0	0.55473	Y
2	IC 240-582961/4	1.0	0.588997	25.0	788501.0	0.588997	Y
3	IC 240-582961/5	2.5	1.258644	25.0	832126.0	0.503457	Y
4	IC 240-582961/6	6.25	3.122997	25.0	818981.0	0.499679	Y
5	IC 240-582961/7	12.5	6.692769	25.0	672995.0	0.535422	Y
6	ICIS 240-582961/8	25.0	13.069481	25.0	790347.0	0.522779	Y
7	IC 240-582961/9	37.5	19.855604	25.0	809303.0	0.529483	Y
8	IC 240-582961/10	50.0	25.147018	25.0	839183.0	0.50294	Y
9	IC 240-582961/11	62.5	32.399704	25.0	842010.0	0.518395	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

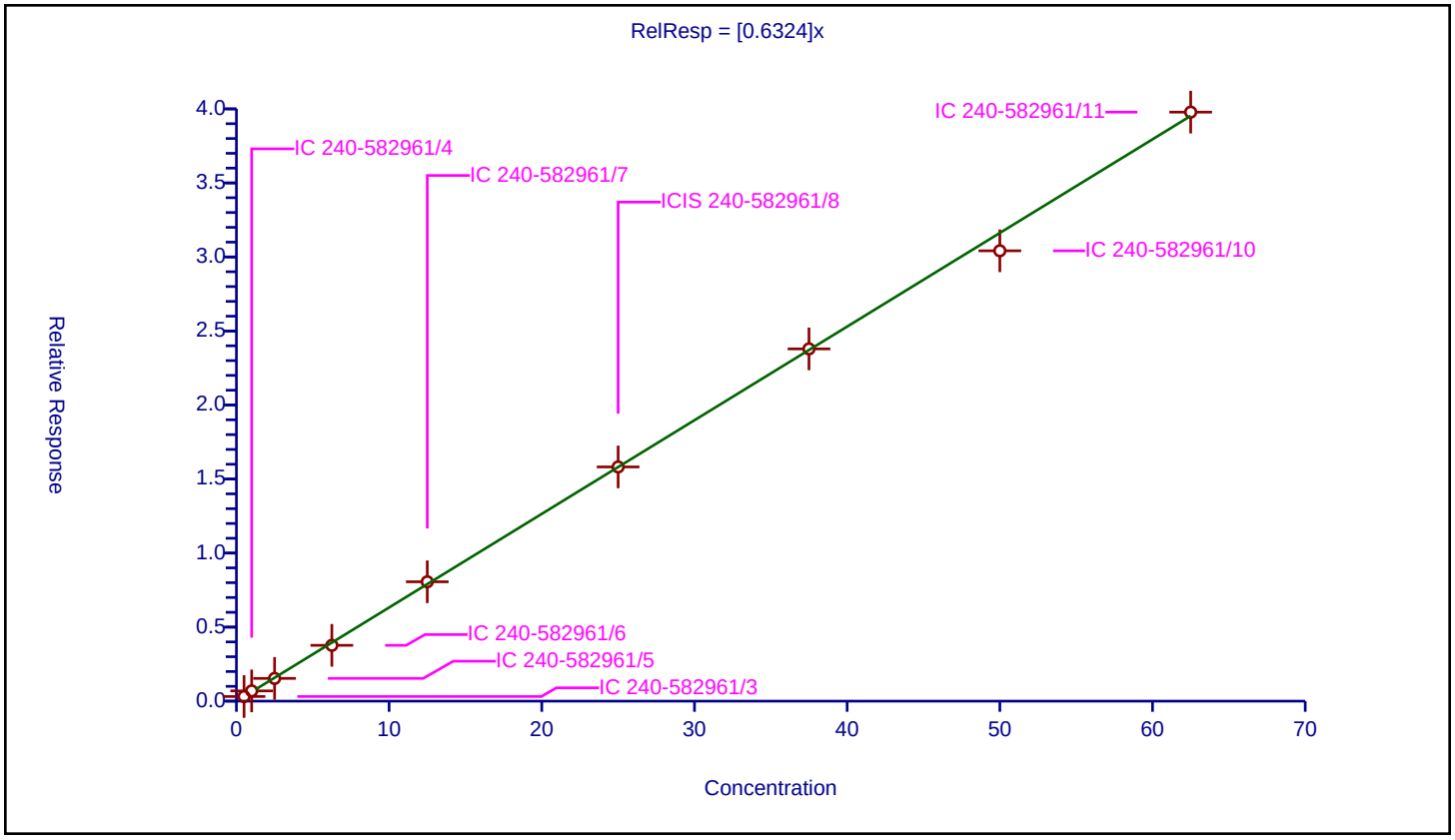
Curve Coefficients

Intercept:	0
Slope:	0.6324

Error Coefficients

Standard Error:	684000
Relative Standard Error:	4.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 240-582961/3	0.5	0.312673	25.0	778848.0	0.625347	Y
2	IC 240-582961/4	1.0	0.692548	25.0	788501.0	0.692548	Y
3	IC 240-582961/5	2.5	1.534774	25.0	832126.0	0.613909	Y
4	IC 240-582961/6	6.25	3.768891	25.0	818981.0	0.603023	Y
5	IC 240-582961/7	12.5	8.061947	25.0	672995.0	0.644956	Y
6	ICIS 240-582961/8	25.0	15.817957	25.0	790347.0	0.632718	Y
7	IC 240-582961/9	37.5	23.790657	25.0	809303.0	0.634418	Y
8	IC 240-582961/10	50.0	30.41631	25.0	839183.0	0.608326	Y
9	IC 240-582961/11	62.5	39.781208	25.0	842010.0	0.636499	Y



Calibration / o-Xylene

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

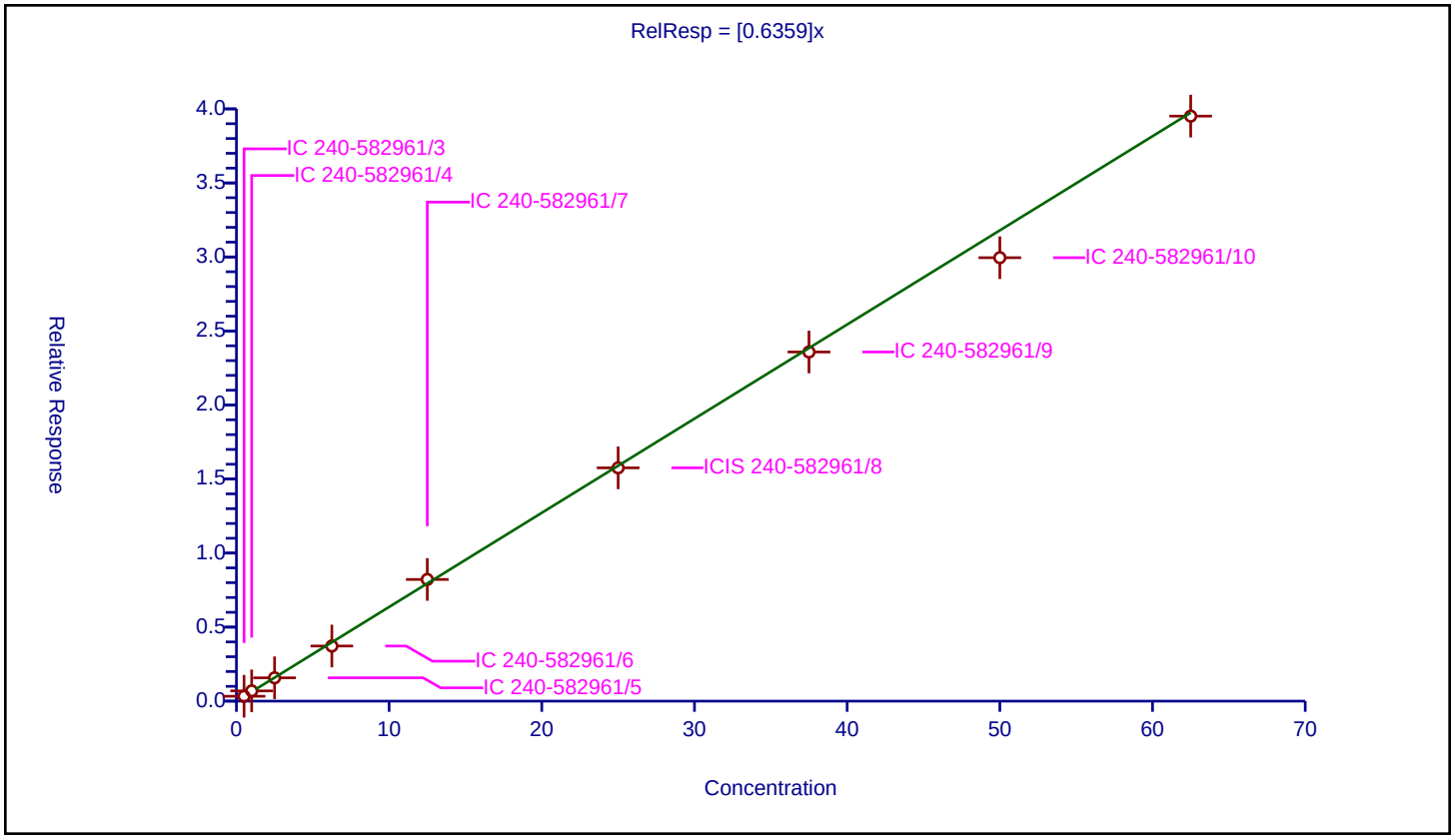
Curve Coefficients

Intercept:	0
Slope:	0.6359

Error Coefficients

Standard Error:	678000
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 240-582961/3	0.5	0.329333	25.0	778848.0	0.658665	Y
2	IC 240-582961/4	1.0	0.691375	25.0	788501.0	0.691375	Y
3	IC 240-582961/5	2.5	1.574131	25.0	832126.0	0.629652	Y
4	IC 240-582961/6	6.25	3.72237	25.0	818981.0	0.595579	Y
5	IC 240-582961/7	12.5	8.217743	25.0	672995.0	0.657419	Y
6	ICIS 240-582961/8	25.0	15.757351	25.0	790347.0	0.630294	Y
7	IC 240-582961/9	37.5	23.582824	25.0	809303.0	0.628875	Y
8	IC 240-582961/10	50.0	29.95044	25.0	839183.0	0.599009	Y
9	IC 240-582961/11	62.5	39.512535	25.0	842010.0	0.632201	Y



Calibration / Styrene

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

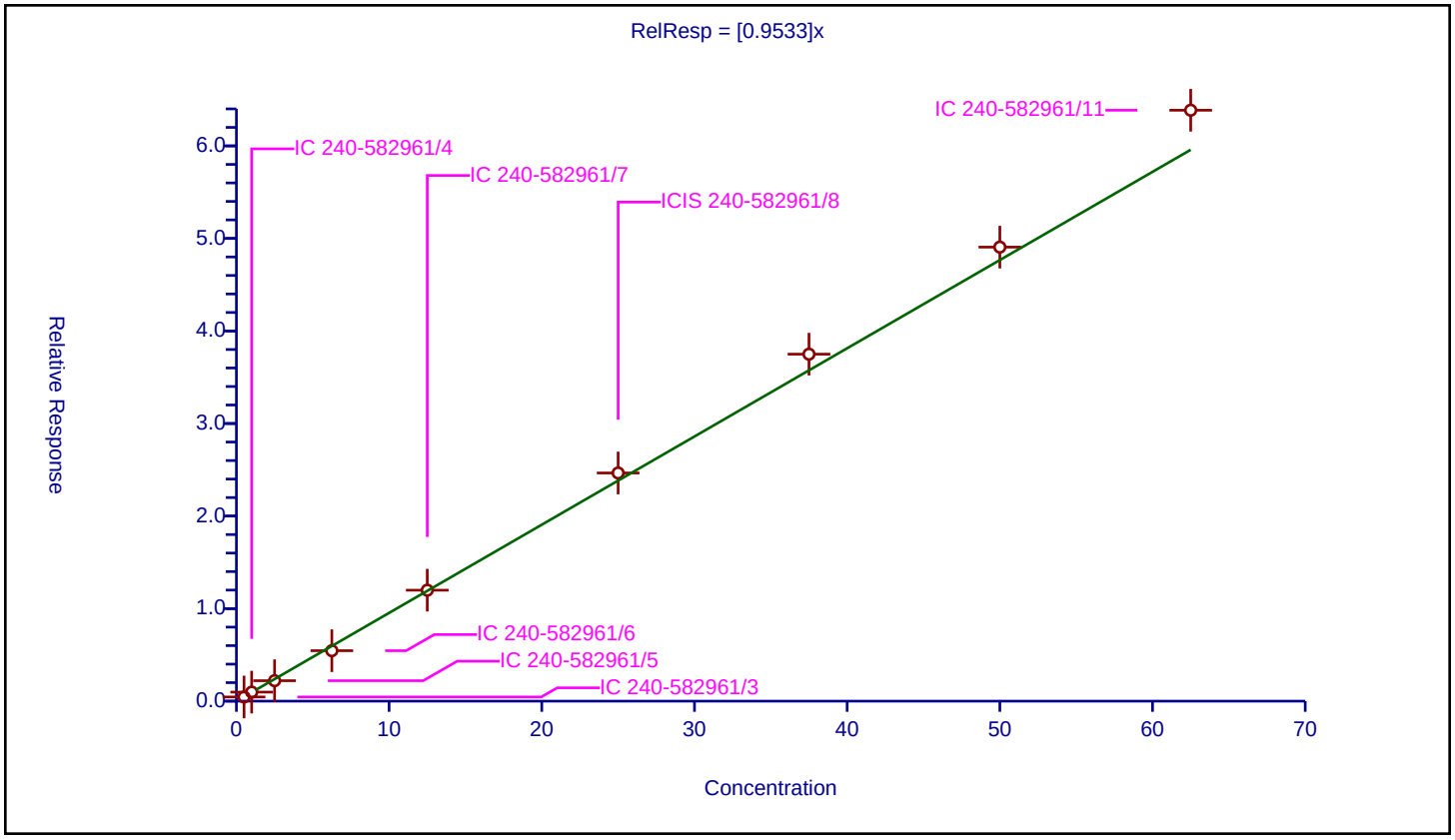
Curve Coefficients

Intercept:	0
Slope:	0.9533

Error Coefficients

Standard Error:	1090000
Relative Standard Error:	5.7
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 240-582961/3	0.5	0.449382	25.0	778848.0	0.898763	Y
2	IC 240-582961/4	1.0	0.976251	25.0	788501.0	0.976251	Y
3	IC 240-582961/5	2.5	2.209972	25.0	832126.0	0.883989	Y
4	IC 240-582961/6	6.25	5.451683	25.0	818981.0	0.872269	Y
5	IC 240-582961/7	12.5	11.988908	25.0	672995.0	0.959113	Y
6	ICIS 240-582961/8	25.0	24.656796	25.0	790347.0	0.986272	Y
7	IC 240-582961/9	37.5	37.495567	25.0	809303.0	0.999882	Y
8	IC 240-582961/10	50.0	49.062719	25.0	839183.0	0.981254	Y
9	IC 240-582961/11	62.5	63.85325	25.0	842010.0	1.021652	Y



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

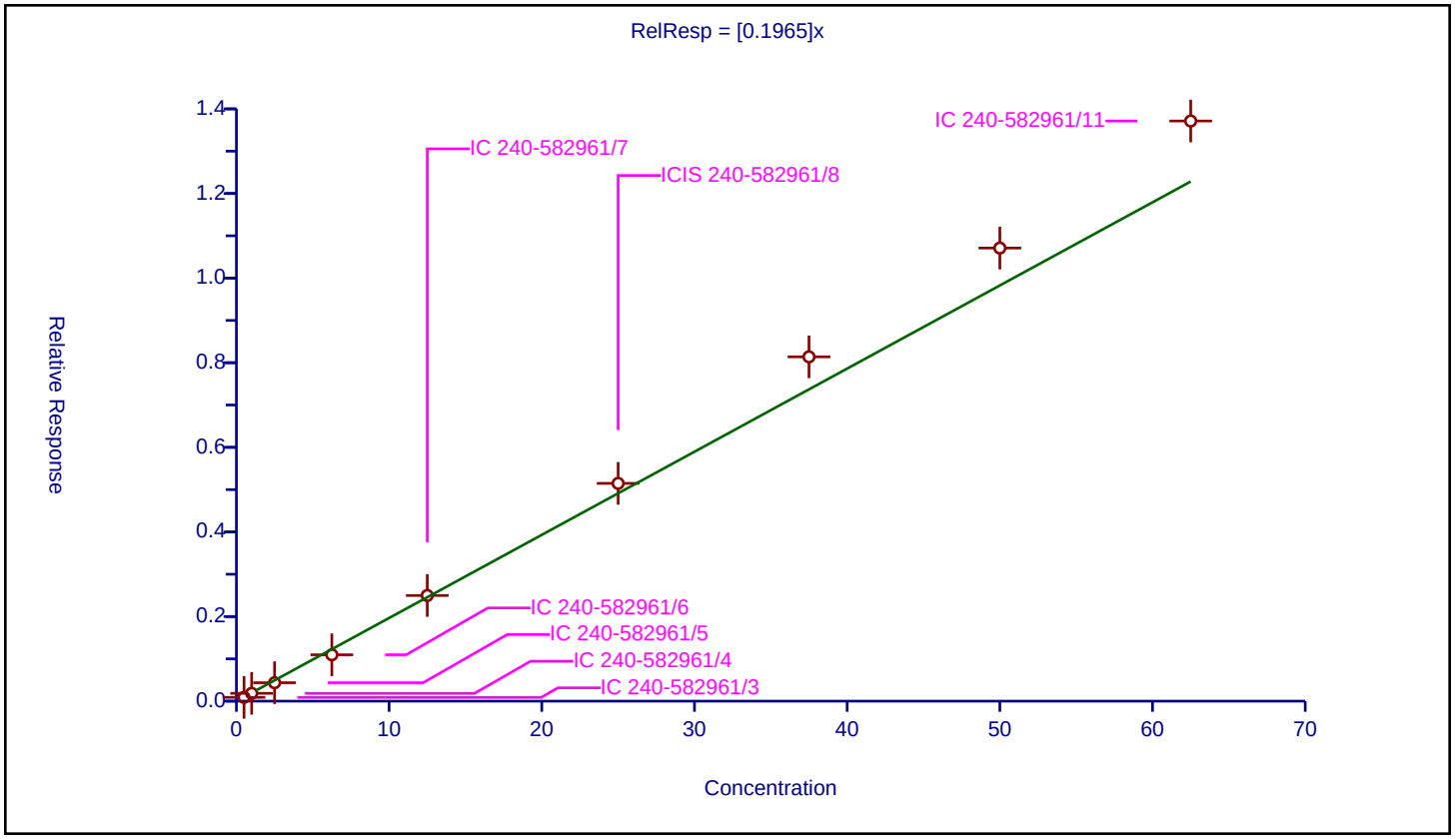
Curve Coefficients

Intercept:	0
Slope:	0.1965

Error Coefficients

Standard Error:	236000
Relative Standard Error:	9.5
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 240-582961/3	0.5	0.089202	25.0	778848.0	0.178405	Y
2	IC 240-582961/4	1.0	0.184559	25.0	788501.0	0.184559	Y
3	IC 240-582961/5	2.5	0.43515	25.0	832126.0	0.17406	Y
4	IC 240-582961/6	6.25	1.095874	25.0	818981.0	0.17534	Y
5	IC 240-582961/7	12.5	2.497233	25.0	672995.0	0.199779	Y
6	ICIS 240-582961/8	25.0	5.148055	25.0	790347.0	0.205922	Y
7	IC 240-582961/9	37.5	8.138917	25.0	809303.0	0.217038	Y
8	IC 240-582961/10	50.0	10.710089	25.0	839183.0	0.214202	Y
9	IC 240-582961/11	62.5	13.713644	25.0	842010.0	0.219418	Y



Calibration / Isopropylbenzene

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

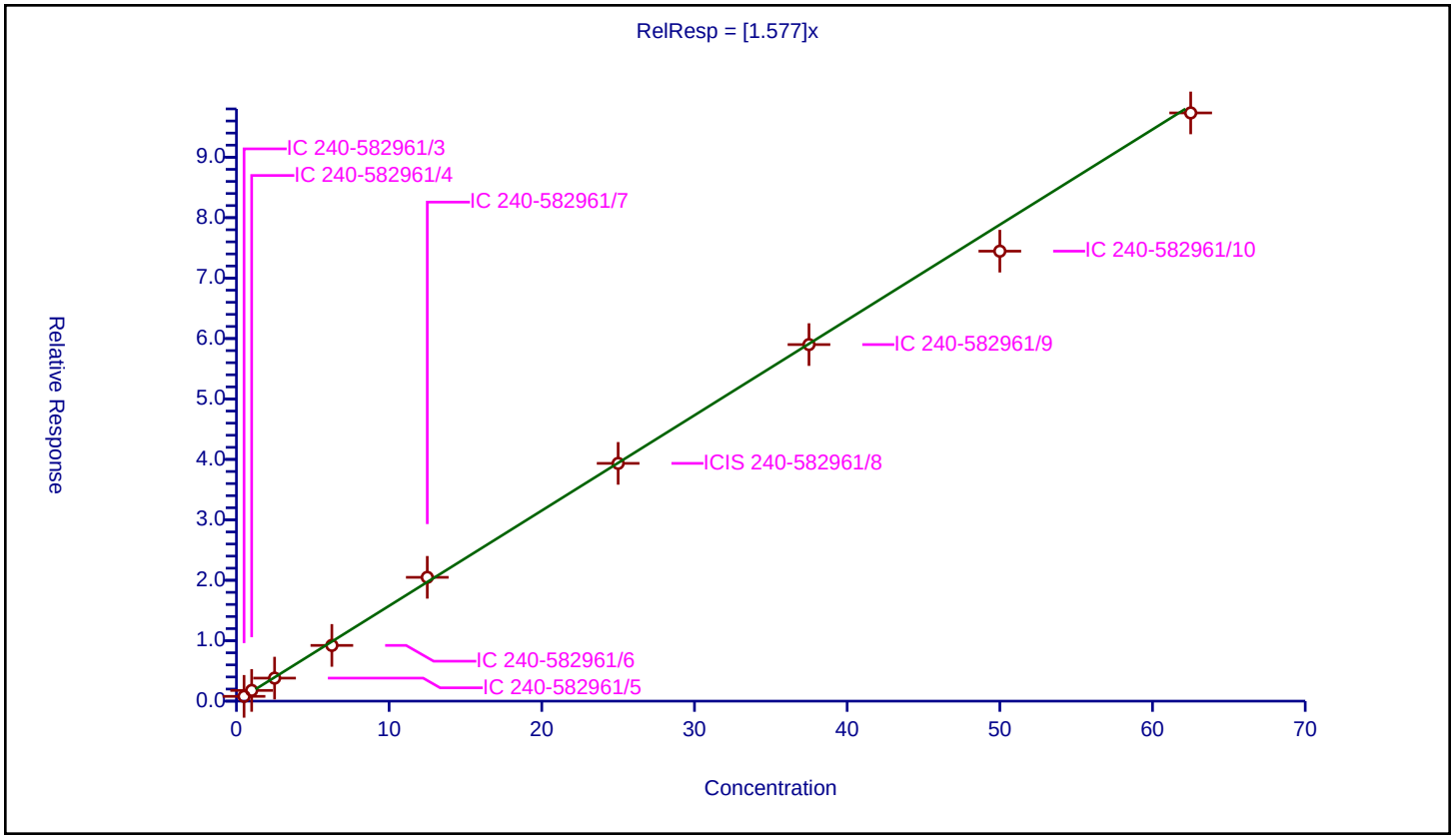
Curve Coefficients

Intercept:	0
Slope:	1.577

Error Coefficients

Standard Error:	1680000
Relative Standard Error:	5.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 240-582961/3	0.5	0.792902	25.0	778848.0	1.585804	Y
2	IC 240-582961/4	1.0	1.773428	25.0	788501.0	1.773428	Y
3	IC 240-582961/5	2.5	3.808768	25.0	832126.0	1.523507	Y
4	IC 240-582961/6	6.25	9.219994	25.0	818981.0	1.475199	Y
5	IC 240-582961/7	12.5	20.488822	25.0	672995.0	1.639106	Y
6	ICIS 240-582961/8	25.0	39.342751	25.0	790347.0	1.57371	Y
7	IC 240-582961/9	37.5	58.999287	25.0	809303.0	1.573314	Y
8	IC 240-582961/10	50.0	74.457478	25.0	839183.0	1.48915	Y
9	IC 240-582961/11	62.5	97.334206	25.0	842010.0	1.557347	Y



Calibration / 4-Bromofluorobenzene (Surr)

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

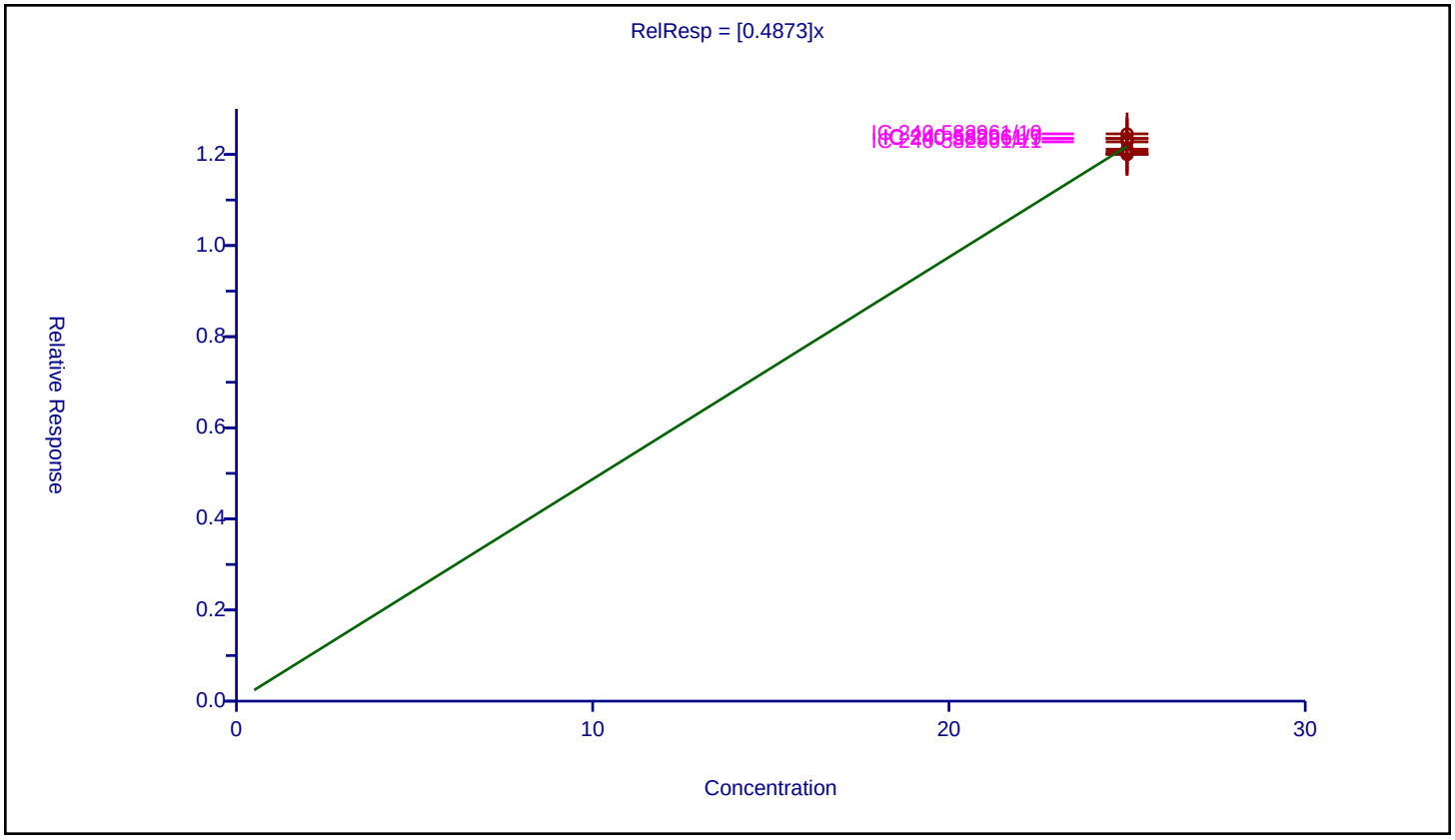
Curve Coefficients

Intercept:	0
Slope:	0.4873

Error Coefficients

Standard Error:	413000
Relative Standard Error:	1.4
Correlation Coefficient:	0.00000000000000000000
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 240-582961/3	25.0	12.019643	25.0	778848.0	0.480786	Y
2	IC 240-582961/4	25.0	12.114252	25.0	788501.0	0.48457	Y
3	IC 240-582961/5	25.0	12.008248	25.0	832126.0	0.48033	Y
4	IC 240-582961/6	25.0	11.999332	25.0	818981.0	0.479973	Y
5	IC 240-582961/7	25.0	12.353212	25.0	672995.0	0.494128	Y
6	ICIS 240-582961/8	25.0	12.067453	25.0	790347.0	0.482698	Y
7	IC 240-582961/9	25.0	12.342998	25.0	809303.0	0.49372	Y
8	IC 240-582961/10	25.0	12.452081	25.0	839183.0	0.498083	Y
9	IC 240-582961/11	25.0	12.275448	25.0	842010.0	0.491018	Y



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

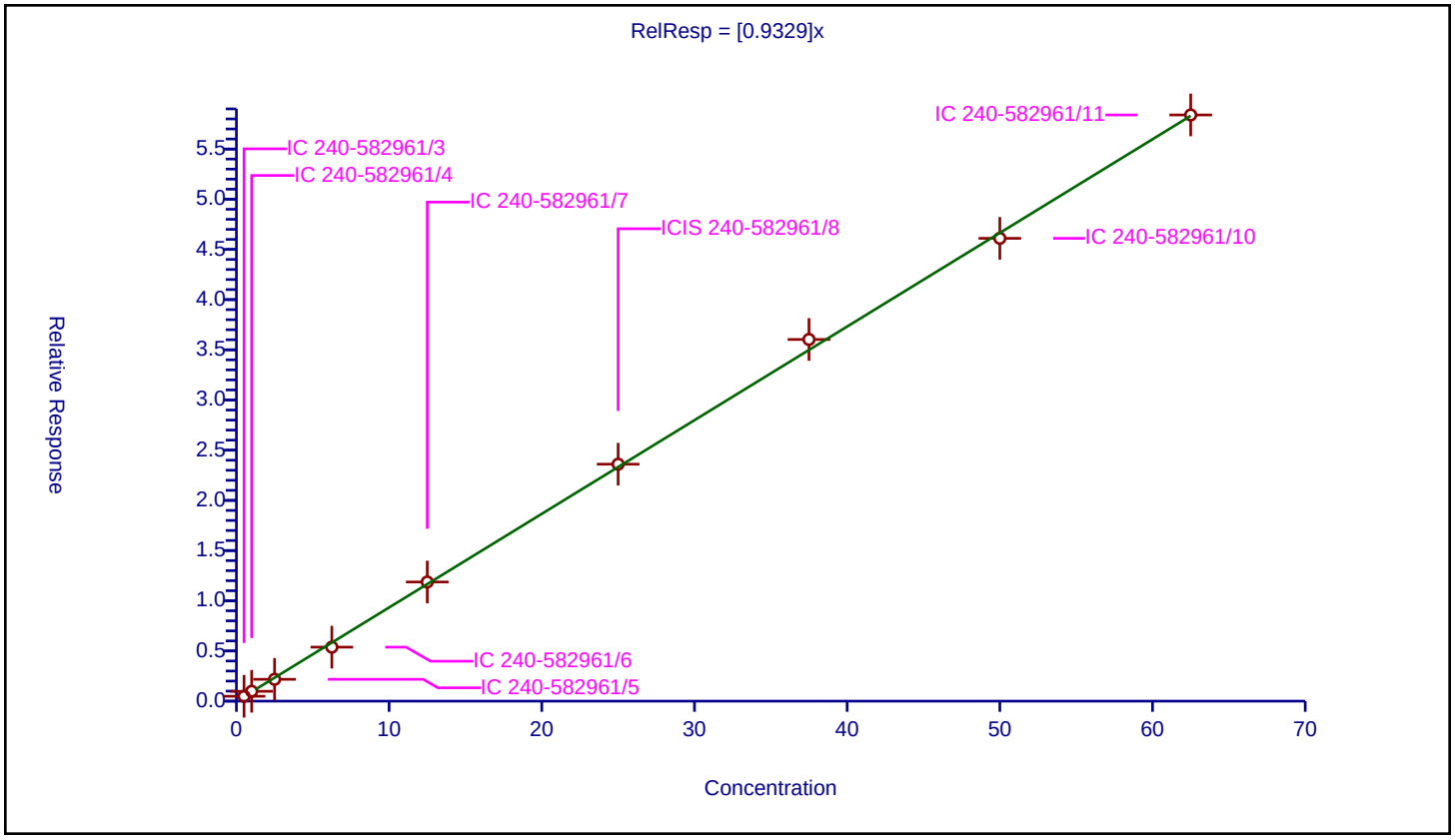
Curve Coefficients

Intercept:	0
Slope:	0.9329

Error Coefficients

Standard Error:	475000
Relative Standard Error:	4.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 240-582961/3	0.5	0.487786	25.0	381161.0	0.975572	Y
2	IC 240-582961/4	1.0	0.979127	25.0	380211.0	0.979127	Y
3	IC 240-582961/5	2.5	2.17383	25.0	403723.0	0.869532	Y
4	IC 240-582961/6	6.25	5.380704	25.0	394335.0	0.860913	Y
5	IC 240-582961/7	12.5	11.870089	25.0	331495.0	0.949607	Y
6	ICIS 240-582961/8	25.0	23.604438	25.0	372950.0	0.944178	Y
7	IC 240-582961/9	37.5	36.031268	25.0	375979.0	0.960834	Y
8	IC 240-582961/10	50.0	46.104947	25.0	394141.0	0.922099	Y
9	IC 240-582961/11	62.5	58.395735	25.0	389013.0	0.934332	Y



Calibration / Bromobenzene

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

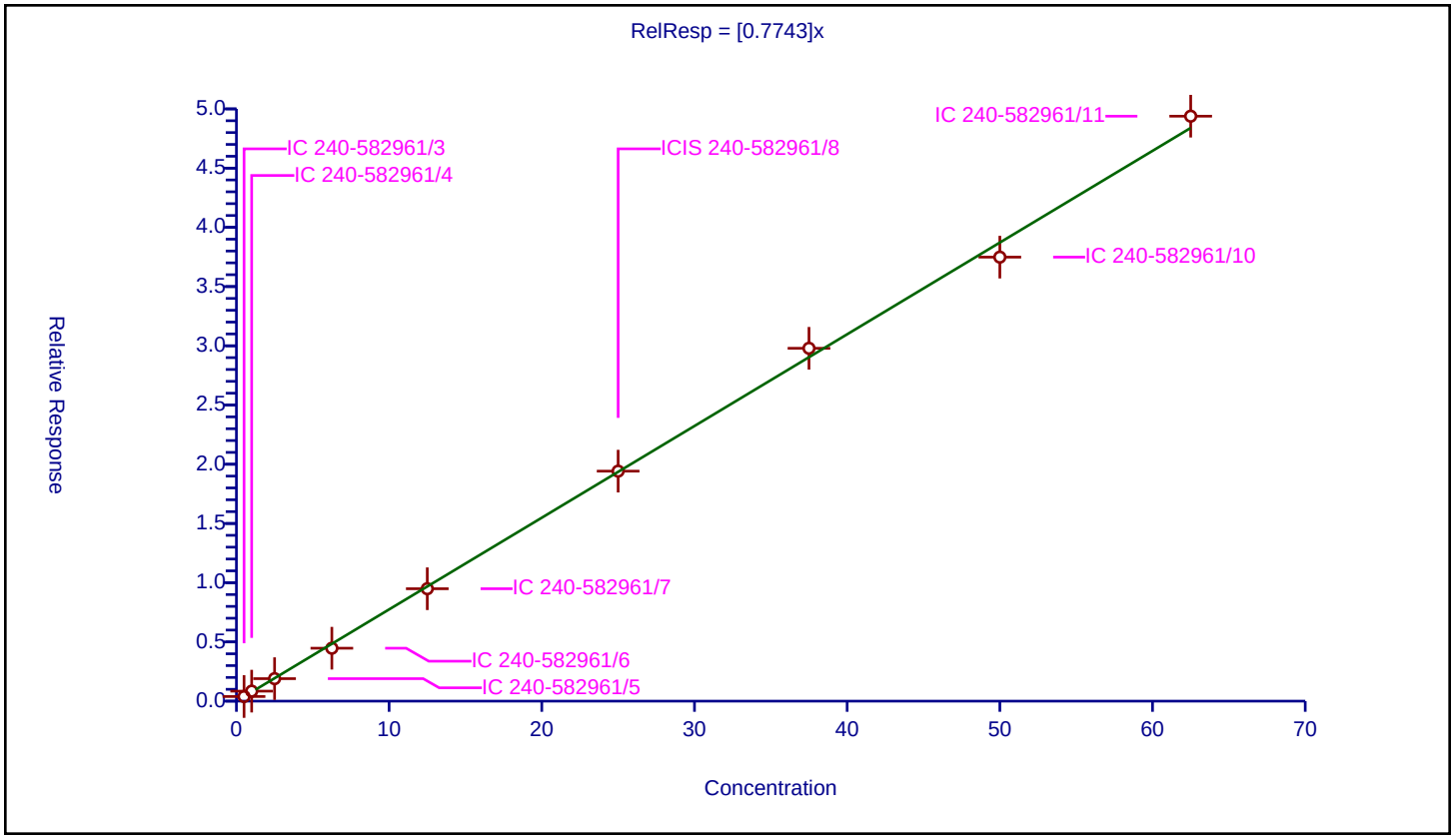
Curve Coefficients

Intercept:	0
Slope:	0.7743

Error Coefficients

Standard Error:	395000
Relative Standard Error:	4.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 240-582961/3	0.5	0.390255	25.0	381161.0	0.78051	Y
2	IC 240-582961/4	1.0	0.843216	25.0	380211.0	0.843216	Y
3	IC 240-582961/5	2.5	1.899198	25.0	403723.0	0.759679	Y
4	IC 240-582961/6	6.25	4.468409	25.0	394335.0	0.714945	Y
5	IC 240-582961/7	12.5	9.490867	25.0	331495.0	0.759269	Y
6	ICIS 240-582961/8	25.0	19.417616	25.0	372950.0	0.776705	Y
7	IC 240-582961/9	37.5	29.79056	25.0	375979.0	0.794415	Y
8	IC 240-582961/10	50.0	37.48538	25.0	394141.0	0.749708	Y
9	IC 240-582961/11	62.5	49.383954	25.0	389013.0	0.790143	Y



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

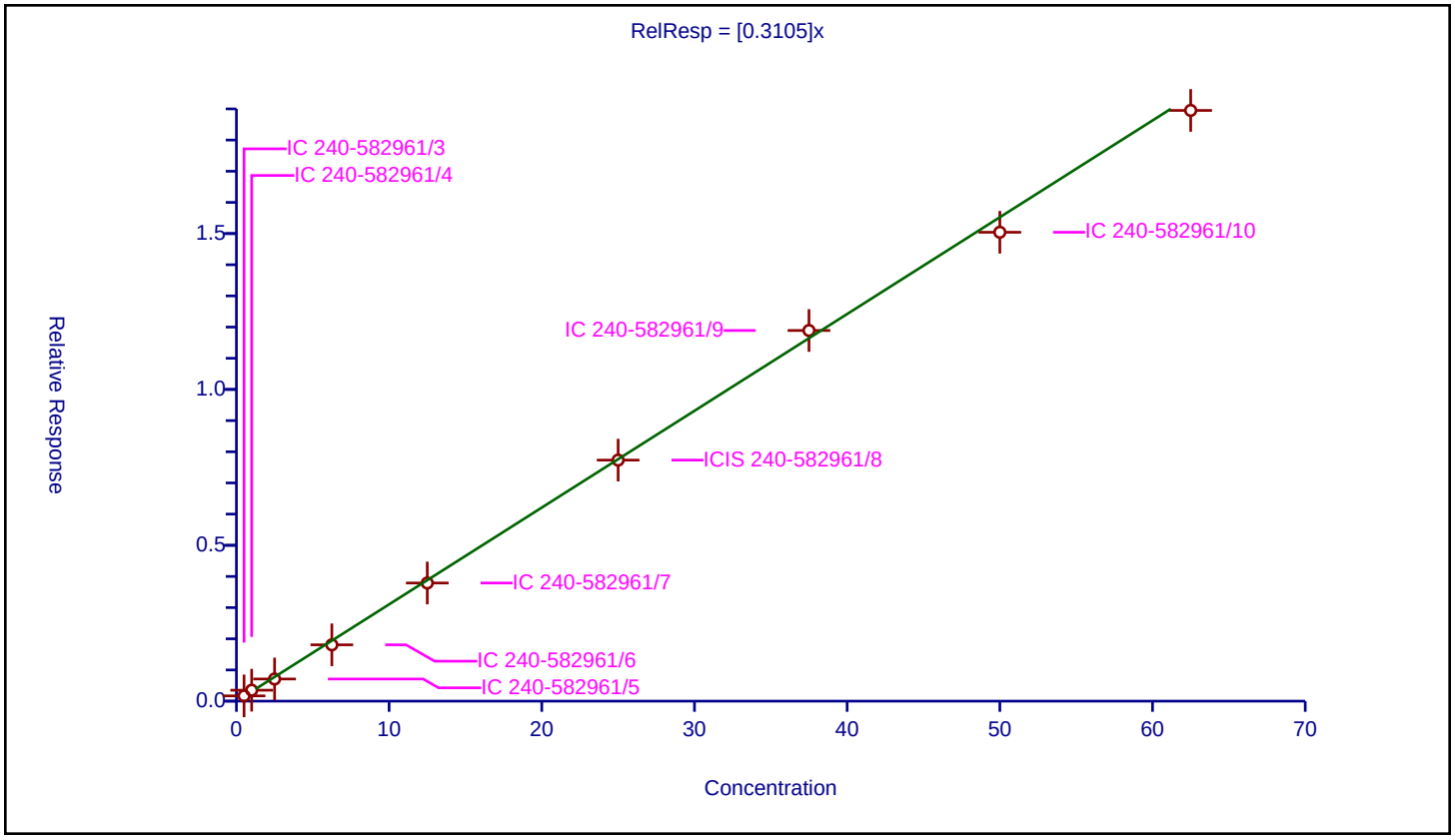
Curve Coefficients

Intercept:	0
Slope:	0.3105

Error Coefficients

Standard Error:	155000
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 240-582961/3	0.5	0.168498	25.0	381161.0	0.336997	Y
2	IC 240-582961/4	1.0	0.350529	25.0	380211.0	0.350529	Y
3	IC 240-582961/5	2.5	0.710078	25.0	403723.0	0.284031	Y
4	IC 240-582961/6	6.25	1.806776	25.0	394335.0	0.289084	Y
5	IC 240-582961/7	12.5	3.790253	25.0	331495.0	0.30322	Y
6	ICIS 240-582961/8	25.0	7.732538	25.0	372950.0	0.309302	Y
7	IC 240-582961/9	37.5	11.890691	25.0	375979.0	0.317085	Y
8	IC 240-582961/10	50.0	15.042396	25.0	394141.0	0.300848	Y
9	IC 240-582961/11	62.5	18.950652	25.0	389013.0	0.30321	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

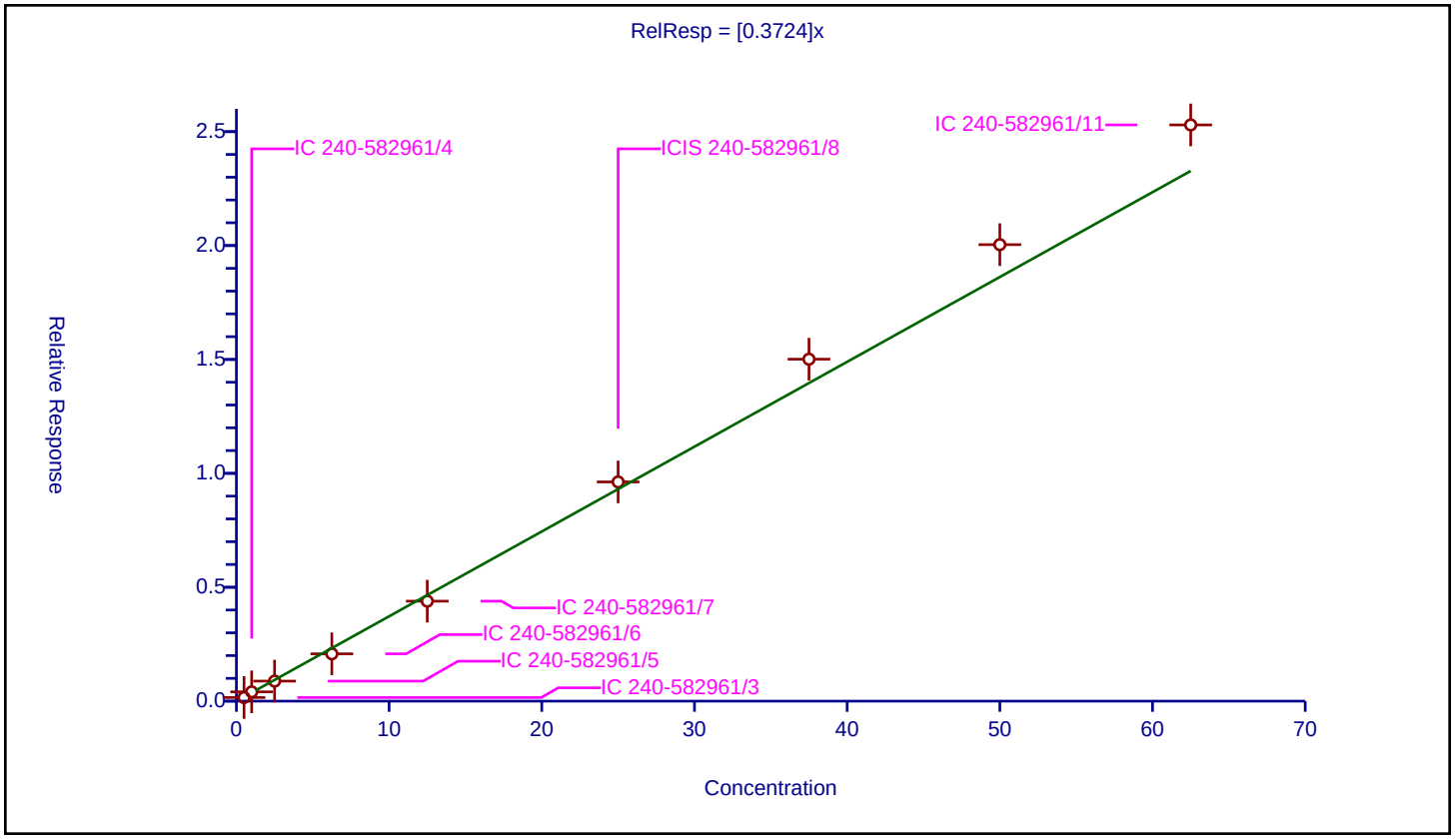
Curve Coefficients

Intercept:	0
Slope:	0.3724

Error Coefficients

Standard Error:	203000
Relative Standard Error:	9.3
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 240-582961/3	0.5	0.158726	25.0	381161.0	0.317451	Y
2	IC 240-582961/4	1.0	0.408194	25.0	380211.0	0.408194	Y
3	IC 240-582961/5	2.5	0.879316	25.0	403723.0	0.351726	Y
4	IC 240-582961/6	6.25	2.077231	25.0	394335.0	0.332357	Y
5	IC 240-582961/7	12.5	4.388377	25.0	331495.0	0.35107	Y
6	ICIS 240-582961/8	25.0	9.623408	25.0	372950.0	0.384936	Y
7	IC 240-582961/9	37.5	15.011543	25.0	375979.0	0.400308	Y
8	IC 240-582961/10	50.0	20.040354	25.0	394141.0	0.400807	Y
9	IC 240-582961/11	62.5	25.296327	25.0	389013.0	0.404741	Y



Calibration / N-Propylbenzene

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

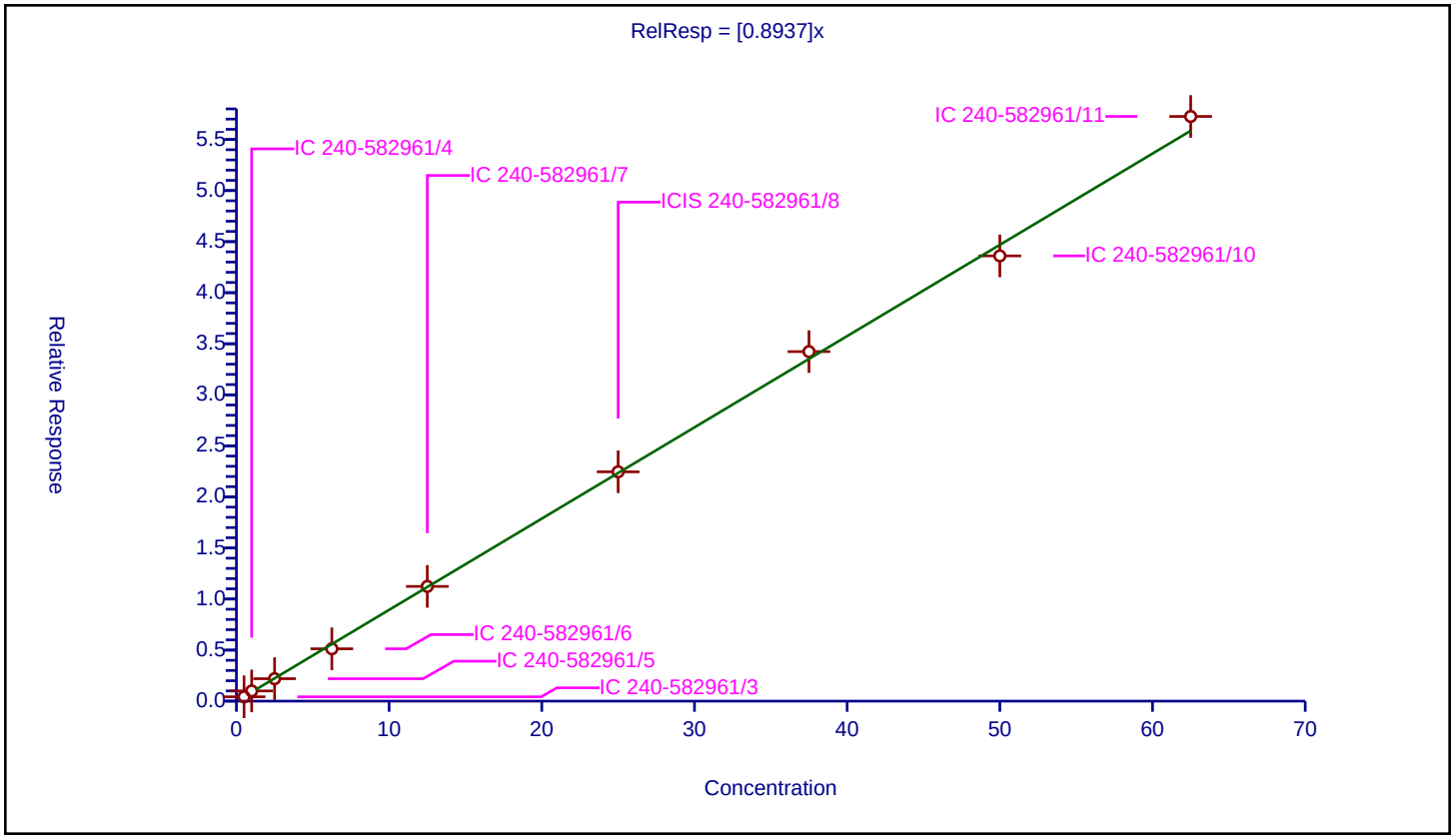
Curve Coefficients

Intercept:	0
Slope:	0.8937

Error Coefficients

Standard Error:	457000
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 240-582961/3	0.5	0.424493	25.0	381161.0	0.848985	Y
2	IC 240-582961/4	1.0	0.997341	25.0	380211.0	0.997341	Y
3	IC 240-582961/5	2.5	2.196679	25.0	403723.0	0.878672	Y
4	IC 240-582961/6	6.25	5.126225	25.0	394335.0	0.820196	Y
5	IC 240-582961/7	12.5	11.235841	25.0	331495.0	0.898867	Y
6	ICIS 240-582961/8	25.0	22.460048	25.0	372950.0	0.898402	Y
7	IC 240-582961/9	37.5	34.23017	25.0	375979.0	0.912805	Y
8	IC 240-582961/10	50.0	43.604192	25.0	394141.0	0.872084	Y
9	IC 240-582961/11	62.5	57.258241	25.0	389013.0	0.916132	Y



Calibration / 2-Chlorotoluene

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

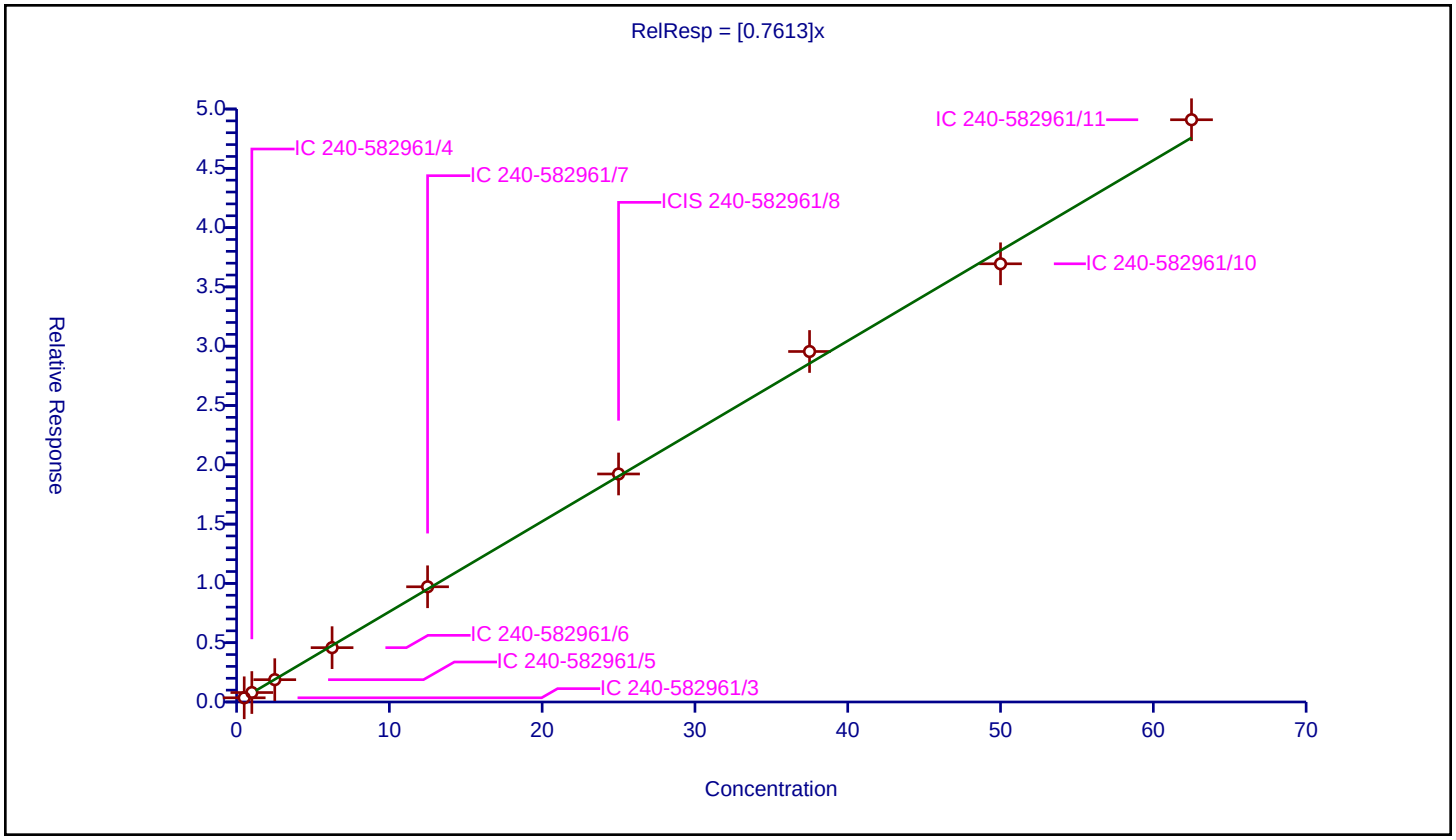
Curve Coefficients

Intercept:	0
Slope:	0.7613

Error Coefficients

Standard Error:	391000
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 240-582961/3	0.5	0.355034	25.0	381161.0	0.710067	Y
2	IC 240-582961/4	1.0	0.797189	25.0	380211.0	0.797189	Y
3	IC 240-582961/5	2.5	1.881055	25.0	403723.0	0.752422	Y
4	IC 240-582961/6	6.25	4.580623	25.0	394335.0	0.7329	Y
5	IC 240-582961/7	12.5	9.715456	25.0	331495.0	0.777236	Y
6	ICIS 240-582961/8	25.0	19.226974	25.0	372950.0	0.769079	Y
7	IC 240-582961/9	37.5	29.553778	25.0	375979.0	0.788101	Y
8	IC 240-582961/10	50.0	36.948643	25.0	394141.0	0.738973	Y
9	IC 240-582961/11	62.5	49.095274	25.0	389013.0	0.785524	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

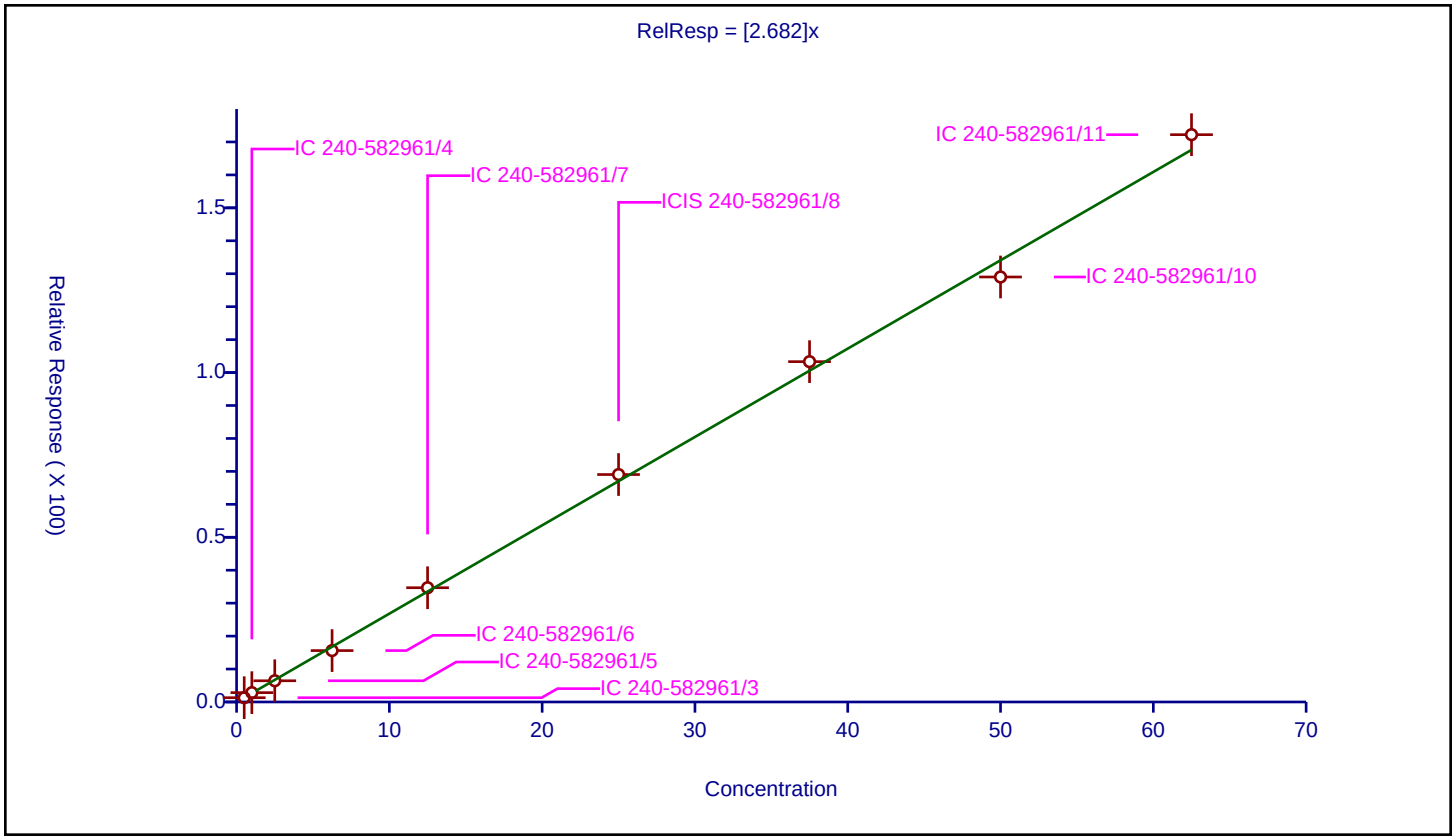
Curve Coefficients

Intercept:	0
Slope:	2.682

Error Coefficients

Standard Error:	1370000
Relative Standard Error:	4.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 240-582961/3	0.5	1.299254	25.0	381161.0	2.598508	Y
2	IC 240-582961/4	1.0	2.834808	25.0	380211.0	2.834808	Y
3	IC 240-582961/5	2.5	6.44266	25.0	403723.0	2.577064	Y
4	IC 240-582961/6	6.25	15.603548	25.0	394335.0	2.496568	Y
5	IC 240-582961/7	12.5	34.68363	25.0	331495.0	2.77469	Y
6	ICIS 240-582961/8	25.0	69.044041	25.0	372950.0	2.761762	Y
7	IC 240-582961/9	37.5	103.31222	25.0	375979.0	2.754993	Y
8	IC 240-582961/10	50.0	129.010811	25.0	394141.0	2.580216	Y
9	IC 240-582961/11	62.5	172.213589	25.0	389013.0	2.755417	Y



8/12/2023
10:47 AM

Calibration / 4-Chlorotoluene

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

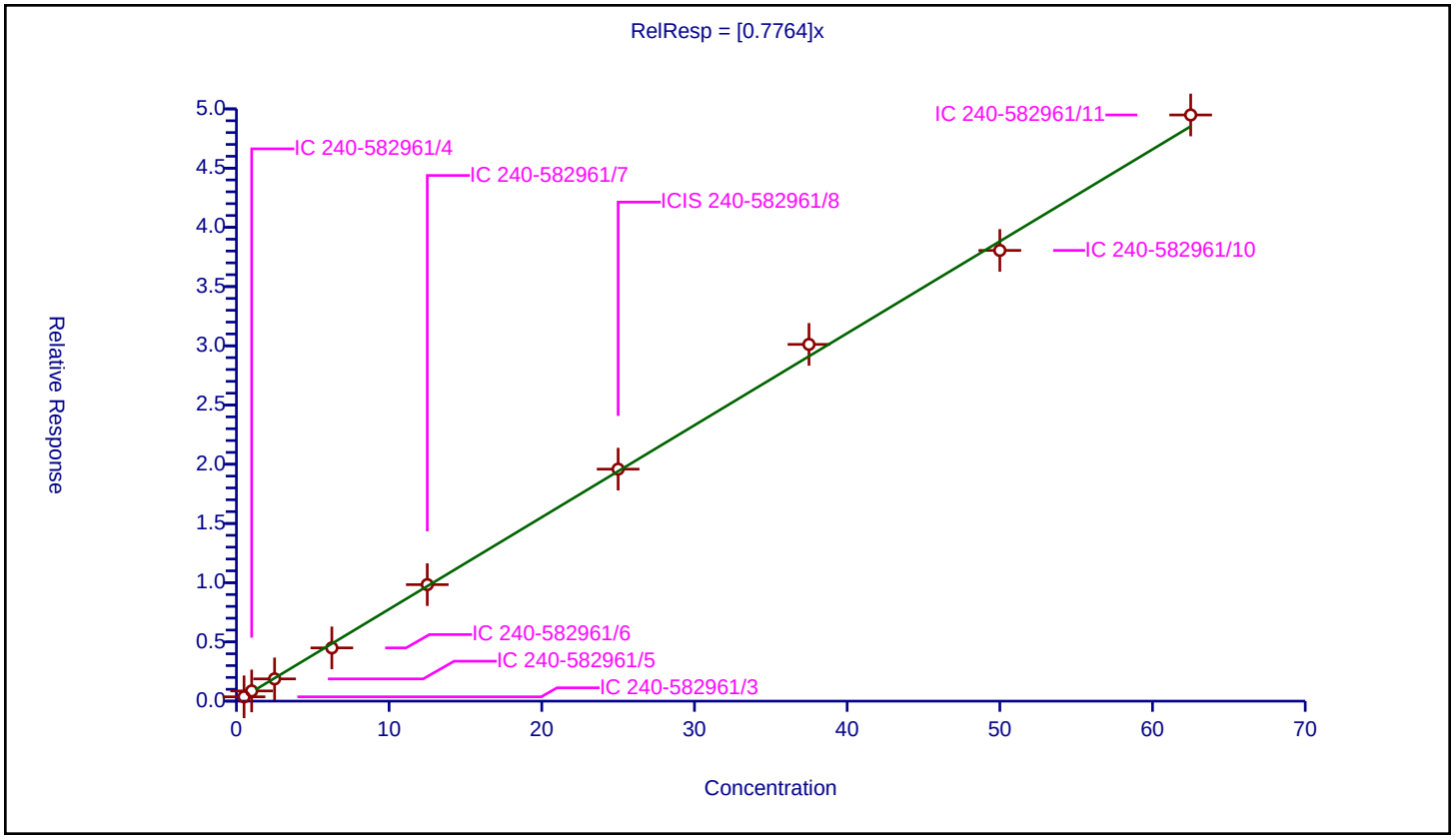
Curve Coefficients

Intercept:	0
Slope:	0.7764

Error Coefficients

Standard Error:	398000
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 240-582961/3	0.5	0.364479	25.0	381161.0	0.728957	Y
2	IC 240-582961/4	1.0	0.861824	25.0	380211.0	0.861824	Y
3	IC 240-582961/5	2.5	1.877587	25.0	403723.0	0.751035	Y
4	IC 240-582961/6	6.25	4.495797	25.0	394335.0	0.719327	Y
5	IC 240-582961/7	12.5	9.837102	25.0	331495.0	0.786968	Y
6	ICIS 240-582961/8	25.0	19.585333	25.0	372950.0	0.783413	Y
7	IC 240-582961/9	37.5	30.118304	25.0	375979.0	0.803155	Y
8	IC 240-582961/10	50.0	38.050596	25.0	394141.0	0.761012	Y
9	IC 240-582961/11	62.5	49.487485	25.0	389013.0	0.7918	Y



8/12/2023
10:47 AM

Calibration / tert-Butylbenzene

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

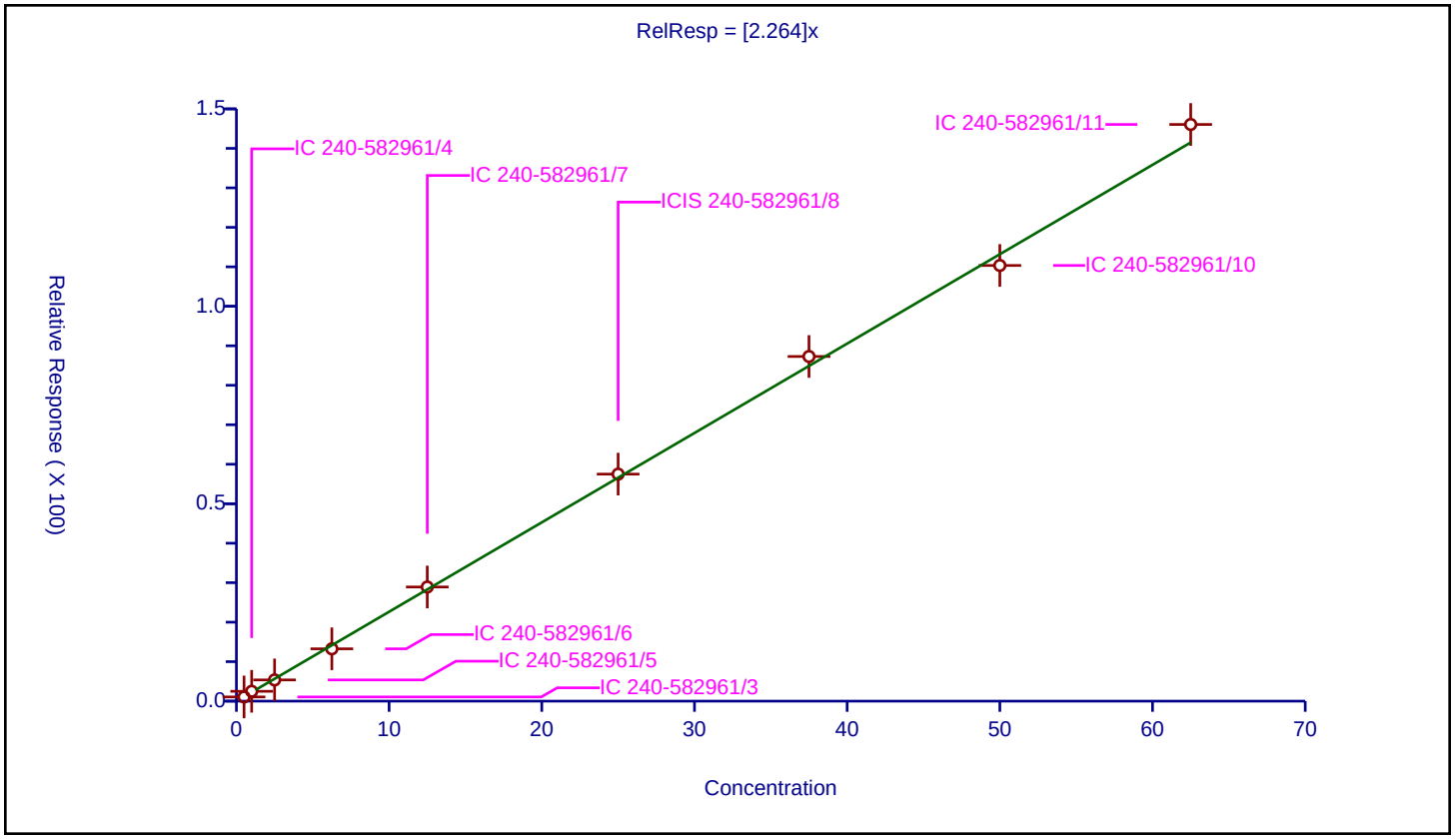
Curve Coefficients

Intercept:	0
Slope:	2.264

Error Coefficients

Standard Error:	1160000
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 240-582961/3	0.5	1.06392	25.0	381161.0	2.127841	Y
2	IC 240-582961/4	1.0	2.493944	25.0	380211.0	2.493944	Y
3	IC 240-582961/5	2.5	5.370452	25.0	403723.0	2.148181	Y
4	IC 240-582961/6	6.25	13.249458	25.0	394335.0	2.119913	Y
5	IC 240-582961/7	12.5	28.908807	25.0	331495.0	2.312705	Y
6	ICIS 240-582961/8	25.0	57.495576	25.0	372950.0	2.299823	Y
7	IC 240-582961/9	37.5	87.295434	25.0	375979.0	2.327878	Y
8	IC 240-582961/10	50.0	110.339764	25.0	394141.0	2.206795	Y
9	IC 240-582961/11	62.5	146.051353	25.0	389013.0	2.336822	Y



8/12/2023
10:47 AM

Calibration / 1,2,4-Trimethylbenzene

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

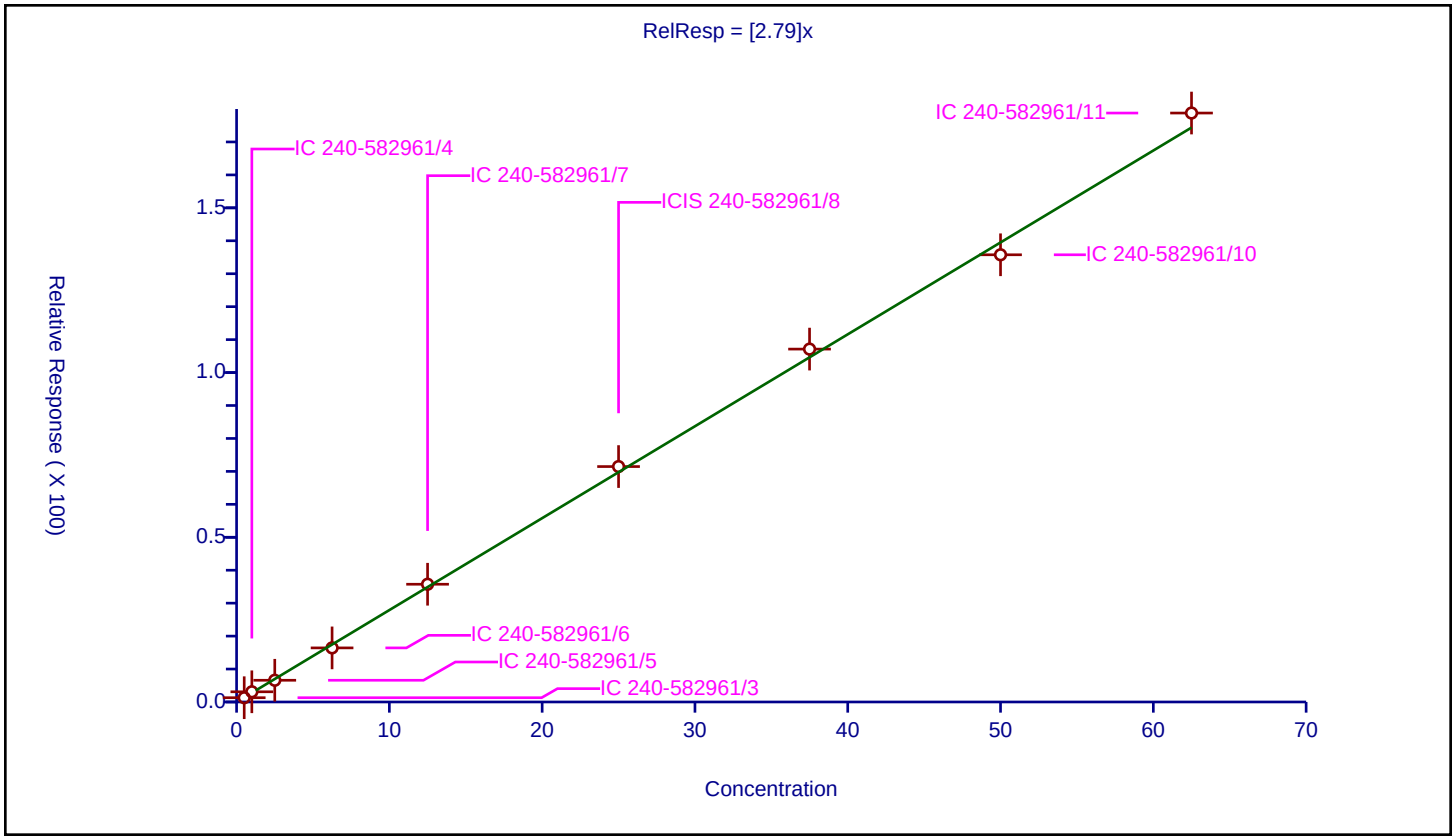
Curve Coefficients

Intercept:	0
Slope:	2.79

Error Coefficients

Standard Error:	1430000
Relative Standard Error:	5.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 240-582961/3	0.5	1.298401	25.0	381161.0	2.596803	Y
2	IC 240-582961/4	1.0	3.096241	25.0	380211.0	3.096241	Y
3	IC 240-582961/5	2.5	6.595921	25.0	403723.0	2.638368	Y
4	IC 240-582961/6	6.25	16.42398	25.0	394335.0	2.627837	Y
5	IC 240-582961/7	12.5	35.740132	25.0	331495.0	2.859211	Y
6	ICIS 240-582961/8	25.0	71.465411	25.0	372950.0	2.858616	Y
7	IC 240-582961/9	37.5	107.121408	25.0	375979.0	2.856571	Y
8	IC 240-582961/10	50.0	135.754146	25.0	394141.0	2.715083	Y
9	IC 240-582961/11	62.5	178.778987	25.0	389013.0	2.860464	Y



Calibration / sec-Butylbenzene

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

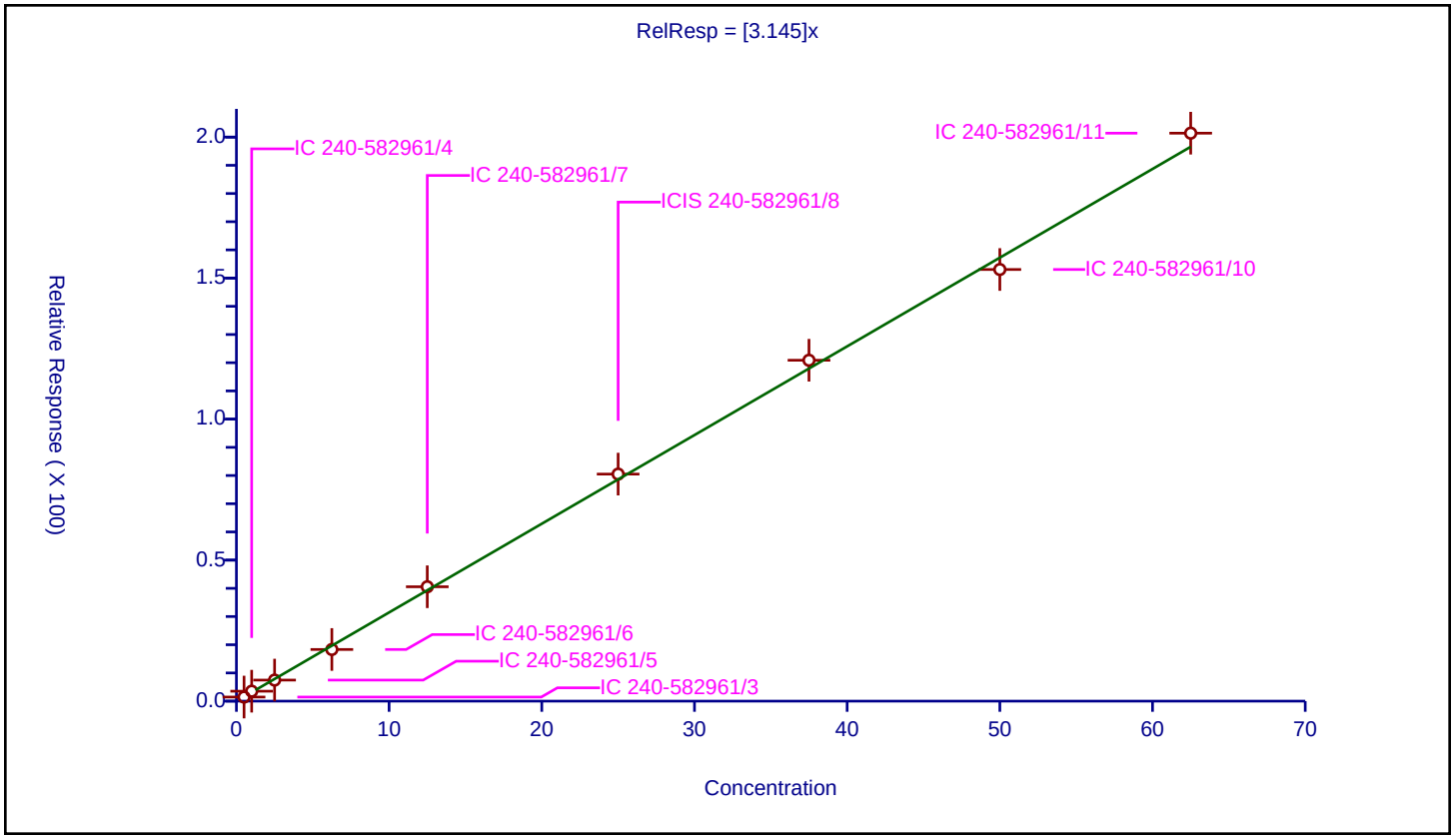
Curve Coefficients

Intercept:	0
Slope:	3.145

Error Coefficients

Standard Error:	1610000
Relative Standard Error:	6.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 240-582961/3	0.5	1.446108	25.0	381161.0	2.892216	Y
2	IC 240-582961/4	1.0	3.5262	25.0	380211.0	3.5262	Y
3	IC 240-582961/5	2.5	7.462604	25.0	403723.0	2.985042	Y
4	IC 240-582961/6	6.25	18.312729	25.0	394335.0	2.930037	Y
5	IC 240-582961/7	12.5	40.555891	25.0	331495.0	3.244471	Y
6	ICIS 240-582961/8	25.0	80.501743	25.0	372950.0	3.22007	Y
7	IC 240-582961/9	37.5	120.872775	25.0	375979.0	3.223274	Y
8	IC 240-582961/10	50.0	153.051573	25.0	394141.0	3.061031	Y
9	IC 240-582961/11	62.5	201.391727	25.0	389013.0	3.222268	Y



8/12/2023
10:47 AM

Calibration / 1,3-Dichlorobenzene

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

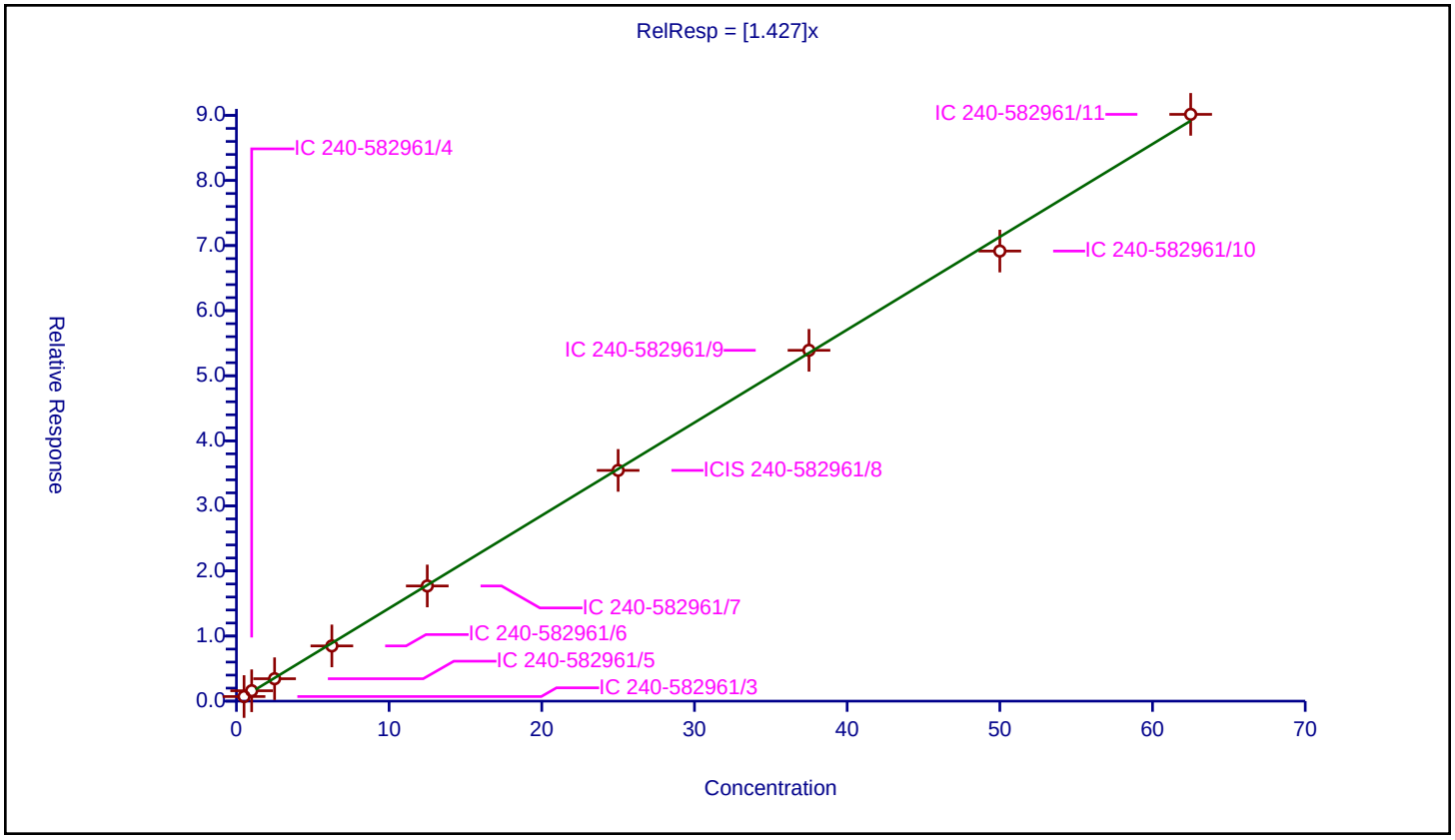
Curve Coefficients

Intercept:	0
Slope:	1.427

Error Coefficients

Standard Error:	722000
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 240-582961/3	0.5	0.705739	25.0	381161.0	1.411477	Y
2	IC 240-582961/4	1.0	1.597666	25.0	380211.0	1.597666	Y
3	IC 240-582961/5	2.5	3.442088	25.0	403723.0	1.376835	Y
4	IC 240-582961/6	6.25	8.483523	25.0	394335.0	1.357364	Y
5	IC 240-582961/7	12.5	17.695667	25.0	331495.0	1.415653	Y
6	ICIS 240-582961/8	25.0	35.45301	25.0	372950.0	1.41812	Y
7	IC 240-582961/9	37.5	53.908463	25.0	375979.0	1.437559	Y
8	IC 240-582961/10	50.0	69.154884	25.0	394141.0	1.383098	Y
9	IC 240-582961/11	62.5	90.16164	25.0	389013.0	1.442586	Y



Calibration / 4-Isopropyltoluene

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

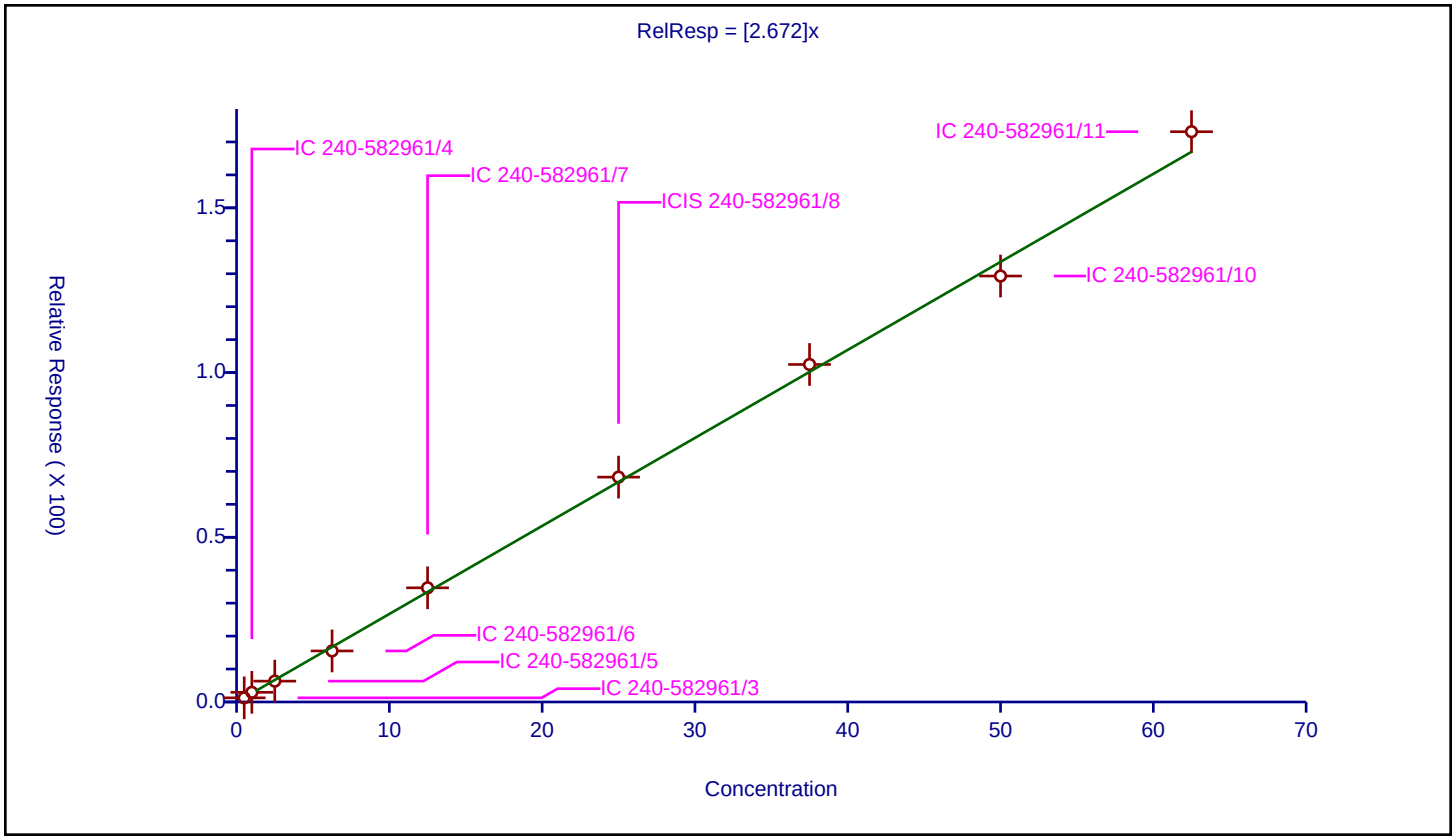
Curve Coefficients

Intercept:	0
Slope:	2.672

Error Coefficients

Standard Error:	1370000
Relative Standard Error:	5.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 240-582961/3	0.5	1.256228	25.0	381161.0	2.512455	Y
2	IC 240-582961/4	1.0	2.931267	25.0	380211.0	2.931267	Y
3	IC 240-582961/5	2.5	6.334108	25.0	403723.0	2.533643	Y
4	IC 240-582961/6	6.25	15.496215	25.0	394335.0	2.479394	Y
5	IC 240-582961/7	12.5	34.656631	25.0	331495.0	2.772531	Y
6	ICIS 240-582961/8	25.0	68.258279	25.0	372950.0	2.730331	Y
7	IC 240-582961/9	37.5	102.454924	25.0	375979.0	2.732131	Y
8	IC 240-582961/10	50.0	129.299794	25.0	394141.0	2.585996	Y
9	IC 240-582961/11	62.5	173.107325	25.0	389013.0	2.769717	Y



8/12/2023
10:47 AM

Calibration / 1,4-Dichlorobenzene

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

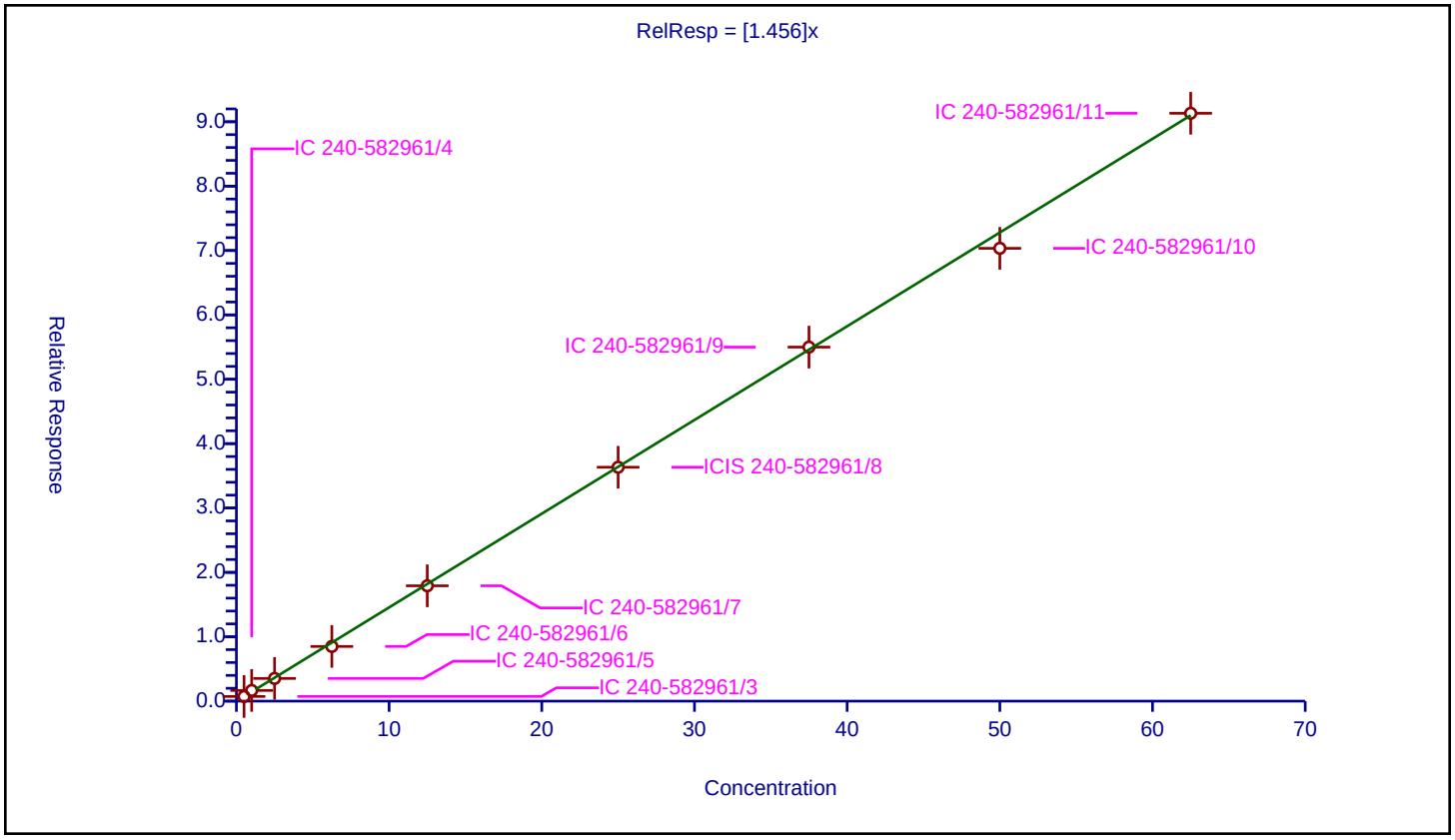
Curve Coefficients

Intercept:	0
Slope:	1.456

Error Coefficients

Standard Error:	734000
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 240-582961/3	0.5	0.725809	25.0	381161.0	1.451618	Y
2	IC 240-582961/4	1.0	1.66092	25.0	380211.0	1.66092	Y
3	IC 240-582961/5	2.5	3.525065	25.0	403723.0	1.410026	Y
4	IC 240-582961/6	6.25	8.495759	25.0	394335.0	1.359321	Y
5	IC 240-582961/7	12.5	17.916786	25.0	331495.0	1.433343	Y
6	ICIS 240-582961/8	25.0	36.337445	25.0	372950.0	1.453498	Y
7	IC 240-582961/9	37.5	54.995691	25.0	375979.0	1.466552	Y
8	IC 240-582961/10	50.0	70.34291	25.0	394141.0	1.406858	Y
9	IC 240-582961/11	62.5	91.318349	25.0	389013.0	1.461094	Y



8/12/2023
10:47 AM

Calibration / 1,2-Dichlorobenzene

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

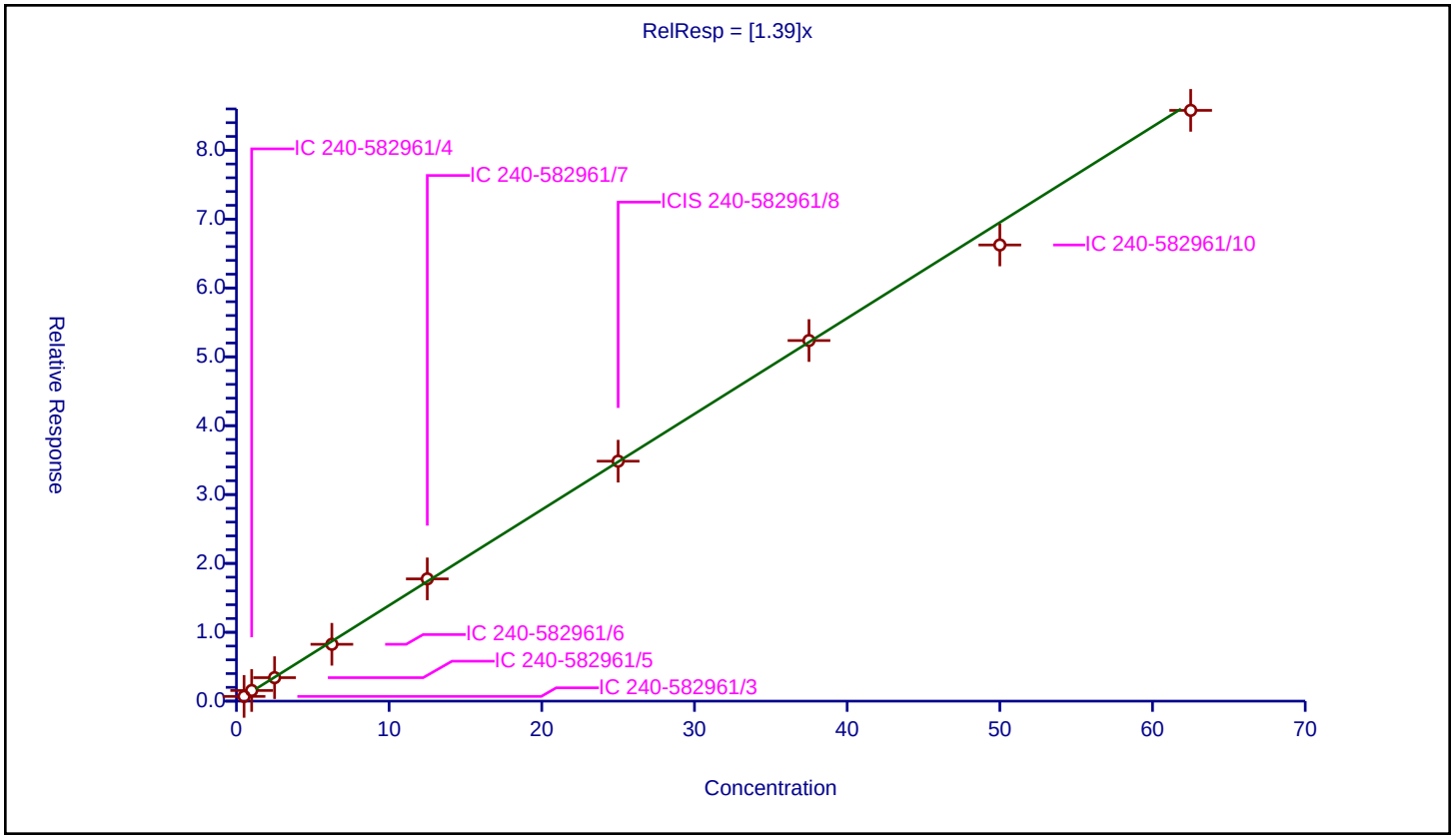
Curve Coefficients

Intercept:	0
Slope:	1.39

Error Coefficients

Standard Error:	693000
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 240-582961/3	0.5	0.687439	25.0	381161.0	1.374878	Y
2	IC 240-582961/4	1.0	1.544669	25.0	380211.0	1.544669	Y
3	IC 240-582961/5	2.5	3.408154	25.0	403723.0	1.363261	Y
4	IC 240-582961/6	6.25	8.256305	25.0	394335.0	1.321009	Y
5	IC 240-582961/7	12.5	17.753134	25.0	331495.0	1.420251	Y
6	ICIS 240-582961/8	25.0	34.843813	25.0	372950.0	1.393753	Y
7	IC 240-582961/9	37.5	52.362632	25.0	375979.0	1.396337	Y
8	IC 240-582961/10	50.0	66.240762	25.0	394141.0	1.324815	Y
9	IC 240-582961/11	62.5	85.788778	25.0	389013.0	1.37262	Y



Calibration / n-Butylbenzene

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

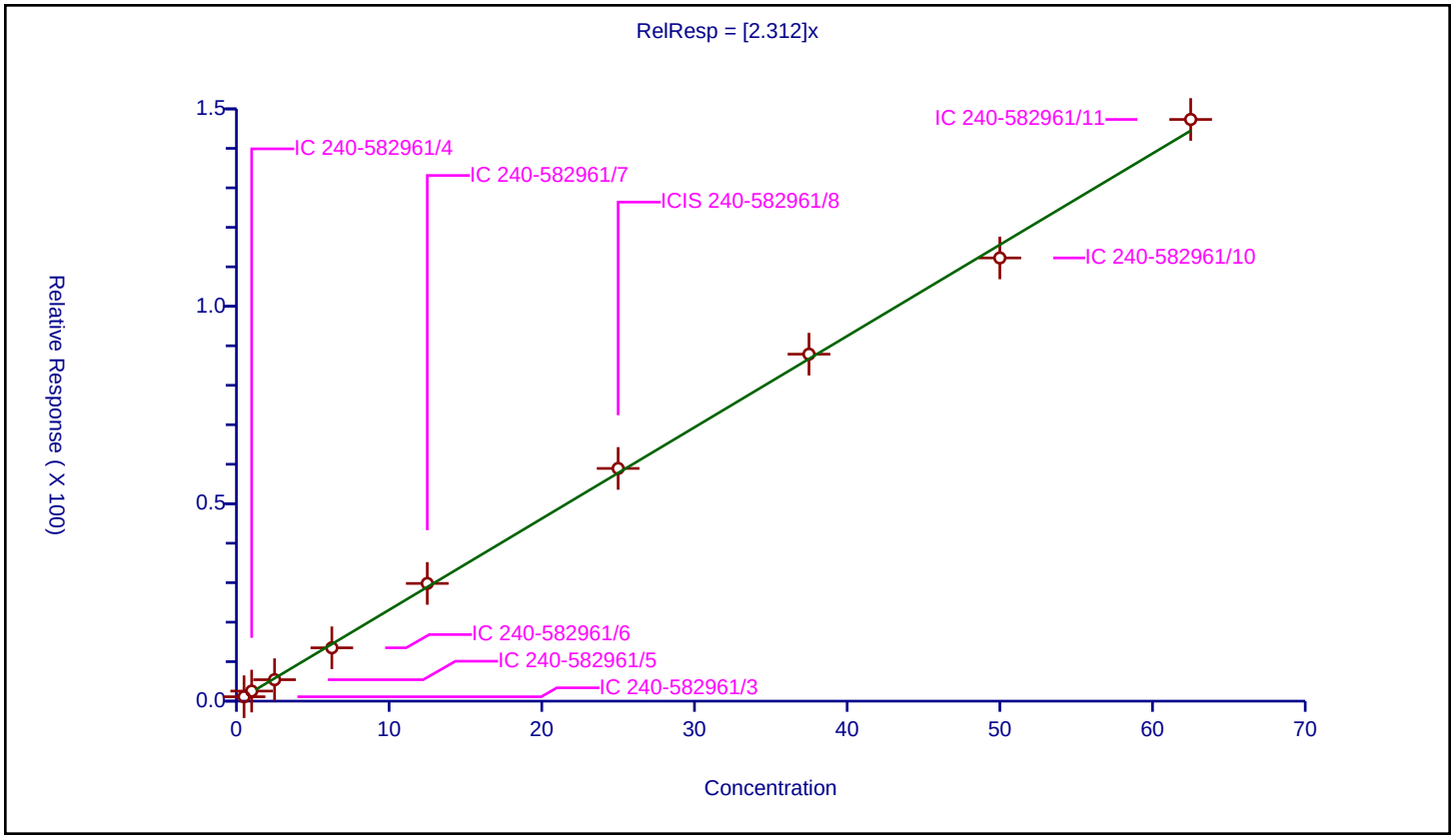
Curve Coefficients

Intercept:	0
Slope:	2.312

Error Coefficients

Standard Error:	1180000
Relative Standard Error:	5.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 240-582961/3	0.5	1.11344	25.0	381161.0	2.226881	Y
2	IC 240-582961/4	1.0	2.554503	25.0	380211.0	2.554503	Y
3	IC 240-582961/5	2.5	5.43411	25.0	403723.0	2.173644	Y
4	IC 240-582961/6	6.25	13.505712	25.0	394335.0	2.160914	Y
5	IC 240-582961/7	12.5	29.812214	25.0	331495.0	2.384977	Y
6	ICIS 240-582961/8	25.0	58.940005	25.0	372950.0	2.3576	Y
7	IC 240-582961/9	37.5	87.879509	25.0	375979.0	2.343454	Y
8	IC 240-582961/10	50.0	112.250121	25.0	394141.0	2.245002	Y
9	IC 240-582961/11	62.5	147.319177	25.0	389013.0	2.357107	Y



8/12/2023
10:47 AM

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

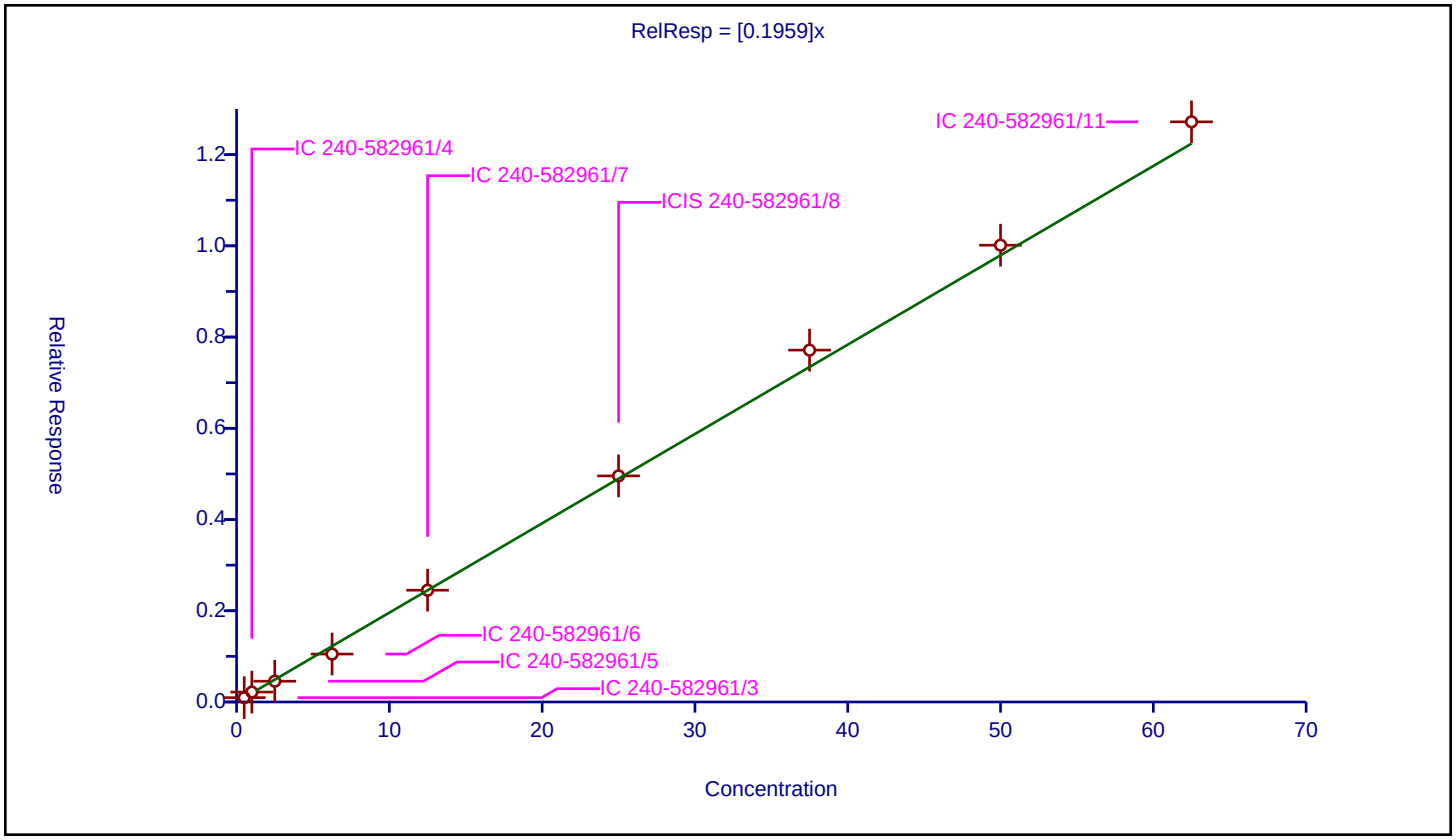
Curve Coefficients

Intercept:	0
Slope:	0.1959

Error Coefficients

Standard Error:	103000
Relative Standard Error:	7.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 240-582961/3	0.5	0.095498	25.0	381161.0	0.190995	Y
2	IC 240-582961/4	1.0	0.217445	25.0	380211.0	0.217445	Y
3	IC 240-582961/5	2.5	0.455944	25.0	403723.0	0.182378	Y
4	IC 240-582961/6	6.25	1.05063	25.0	394335.0	0.168101	Y
5	IC 240-582961/7	12.5	2.450414	25.0	331495.0	0.196033	Y
6	ICIS 240-582961/8	25.0	4.956496	25.0	372950.0	0.19826	Y
7	IC 240-582961/9	37.5	7.714394	25.0	375979.0	0.205717	Y
8	IC 240-582961/10	50.0	10.014563	25.0	394141.0	0.200291	Y
9	IC 240-582961/11	62.5	12.718919	25.0	389013.0	0.203503	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

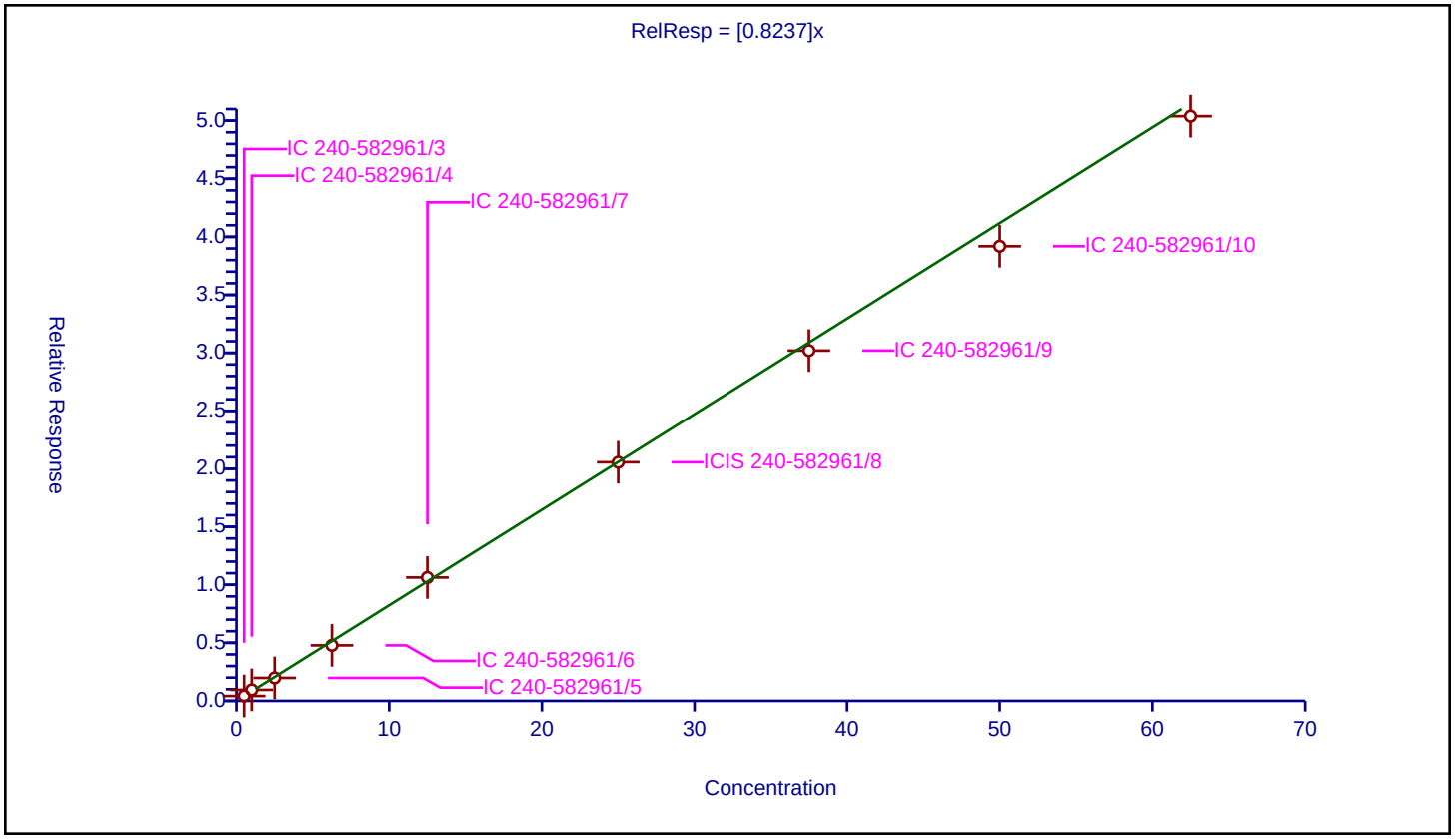
Curve Coefficients

Intercept:	0
Slope:	0.8237

Error Coefficients

Standard Error:	407000
Relative Standard Error:	6.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 240-582961/3	0.5	0.420623	25.0	381161.0	0.841246	Y
2	IC 240-582961/4	1.0	0.947303	25.0	380211.0	0.947303	Y
3	IC 240-582961/5	2.5	1.978151	25.0	403723.0	0.79126	Y
4	IC 240-582961/6	6.25	4.781848	25.0	394335.0	0.765096	Y
5	IC 240-582961/7	12.5	10.631759	25.0	331495.0	0.850541	Y
6	ICIS 240-582961/8	25.0	20.563883	25.0	372950.0	0.822555	Y
7	IC 240-582961/9	37.5	30.195503	25.0	375979.0	0.805213	Y
8	IC 240-582961/10	50.0	39.191558	25.0	394141.0	0.783831	Y
9	IC 240-582961/11	62.5	50.385206	25.0	389013.0	0.806163	Y



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

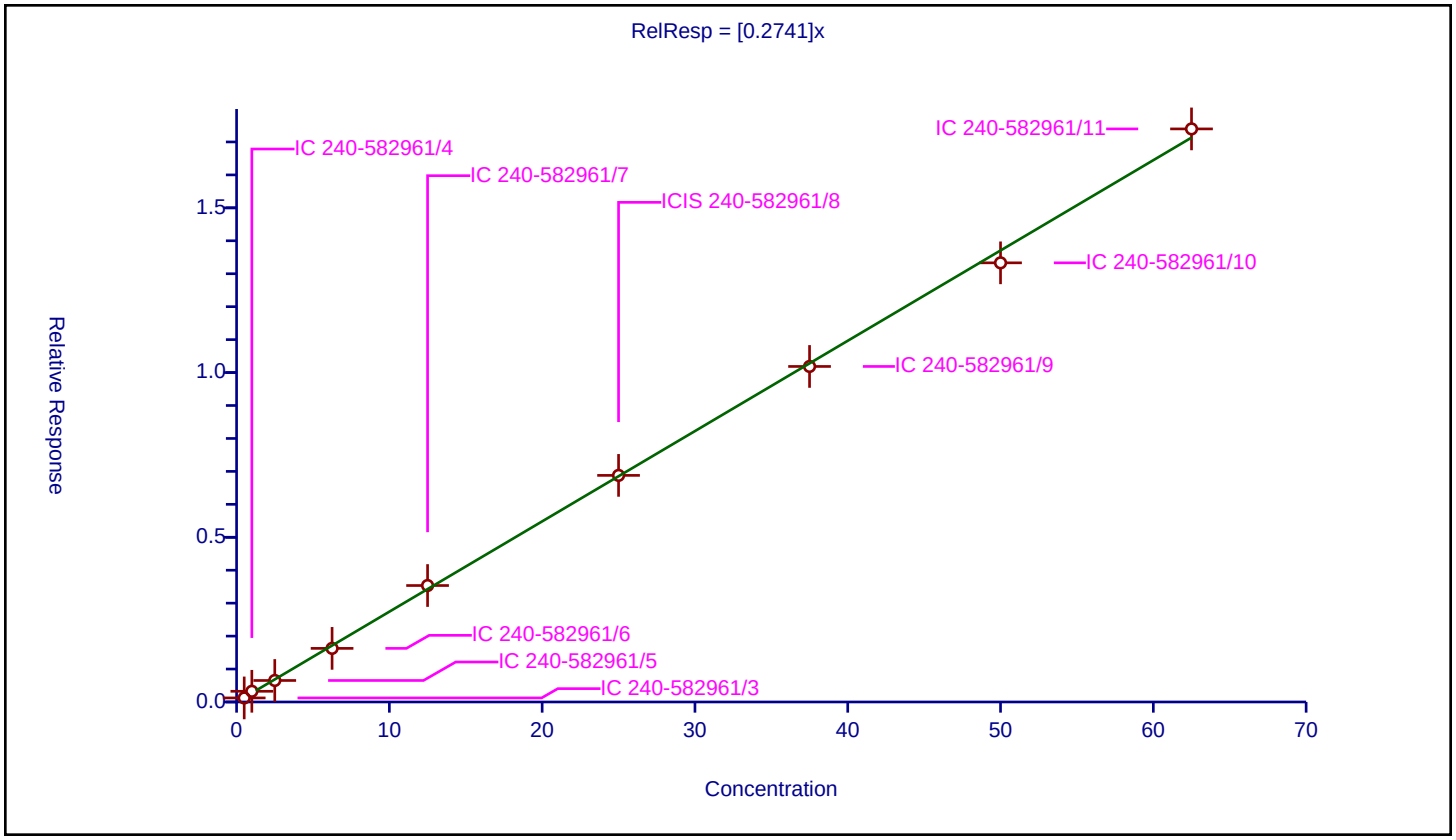
Curve Coefficients

Intercept:	0
Slope:	0.2741

Error Coefficients

Standard Error:	139000
Relative Standard Error:	8.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 240-582961/3	0.5	0.123045	25.0	381161.0	0.24609	Y
2	IC 240-582961/4	1.0	0.324754	25.0	380211.0	0.324754	Y
3	IC 240-582961/5	2.5	0.653047	25.0	403723.0	0.261219	Y
4	IC 240-582961/6	6.25	1.627677	25.0	394335.0	0.260428	Y
5	IC 240-582961/7	12.5	3.535272	25.0	331495.0	0.282822	Y
6	ICIS 240-582961/8	25.0	6.878335	25.0	372950.0	0.275133	Y
7	IC 240-582961/9	37.5	10.185077	25.0	375979.0	0.271602	Y
8	IC 240-582961/10	50.0	13.330509	25.0	394141.0	0.26661	Y
9	IC 240-582961/11	62.5	17.396012	25.0	389013.0	0.278336	Y



Calibration / Naphthalene

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

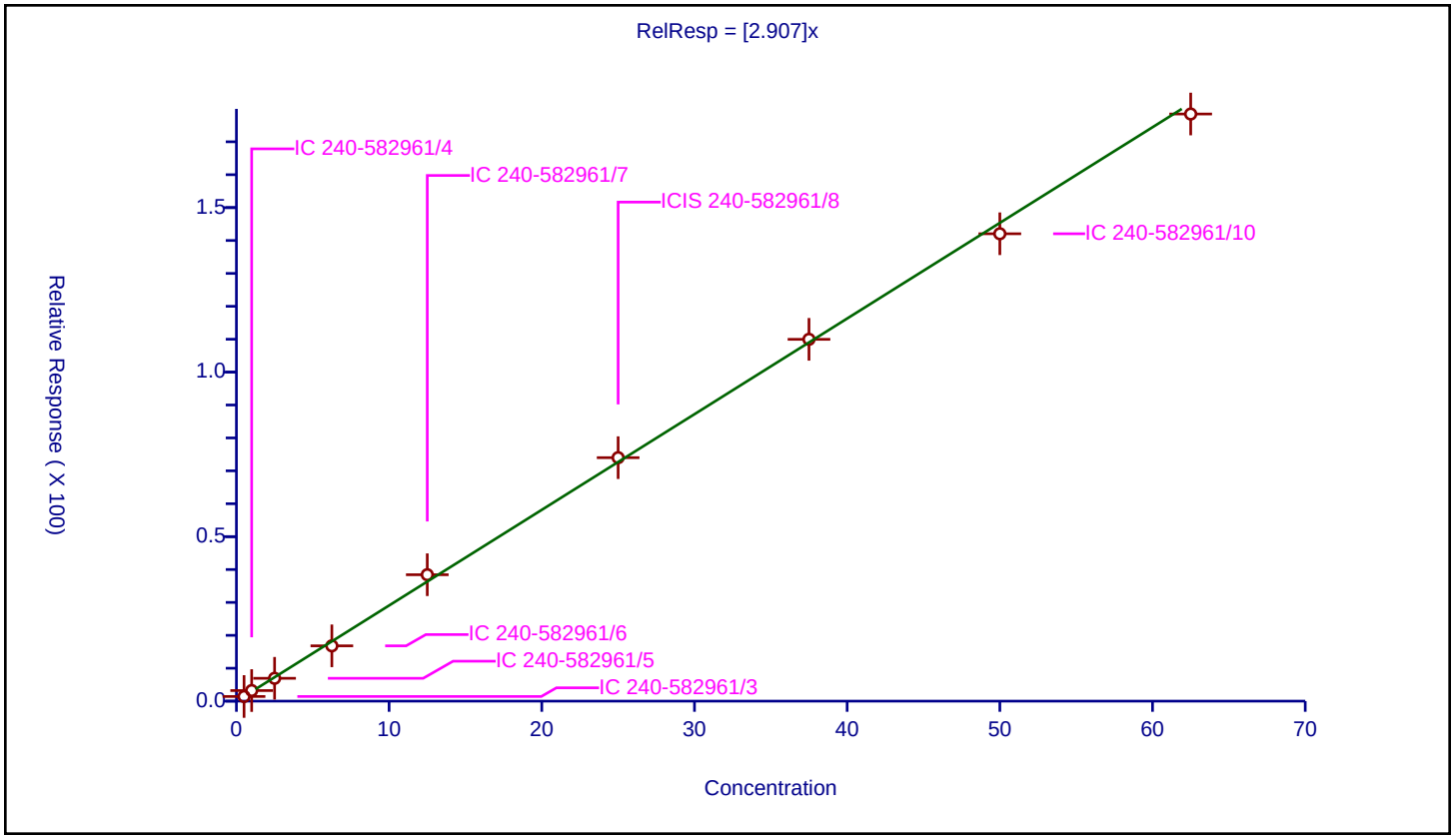
Curve Coefficients

Intercept:	0
Slope:	2.907

Error Coefficients

Standard Error:	1460000
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 240-582961/3	0.5	1.408985	25.0	381161.0	2.817969	Y
2	IC 240-582961/4	1.0	3.21966	25.0	380211.0	3.21966	Y
3	IC 240-582961/5	2.5	6.937863	25.0	403723.0	2.775145	Y
4	IC 240-582961/6	6.25	16.805128	25.0	394335.0	2.68882	Y
5	IC 240-582961/7	12.5	38.422902	25.0	331495.0	3.073832	Y
6	ICIS 240-582961/8	25.0	73.997185	25.0	372950.0	2.959887	Y
7	IC 240-582961/9	37.5	109.965716	25.0	375979.0	2.932419	Y
8	IC 240-582961/10	50.0	142.053922	25.0	394141.0	2.841078	Y
9	IC 240-582961/11	62.5	178.442816	25.0	389013.0	2.855085	Y



8/12/2023
10:47 AM

Calibration / 1,2,3-Trichlorobenzene

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

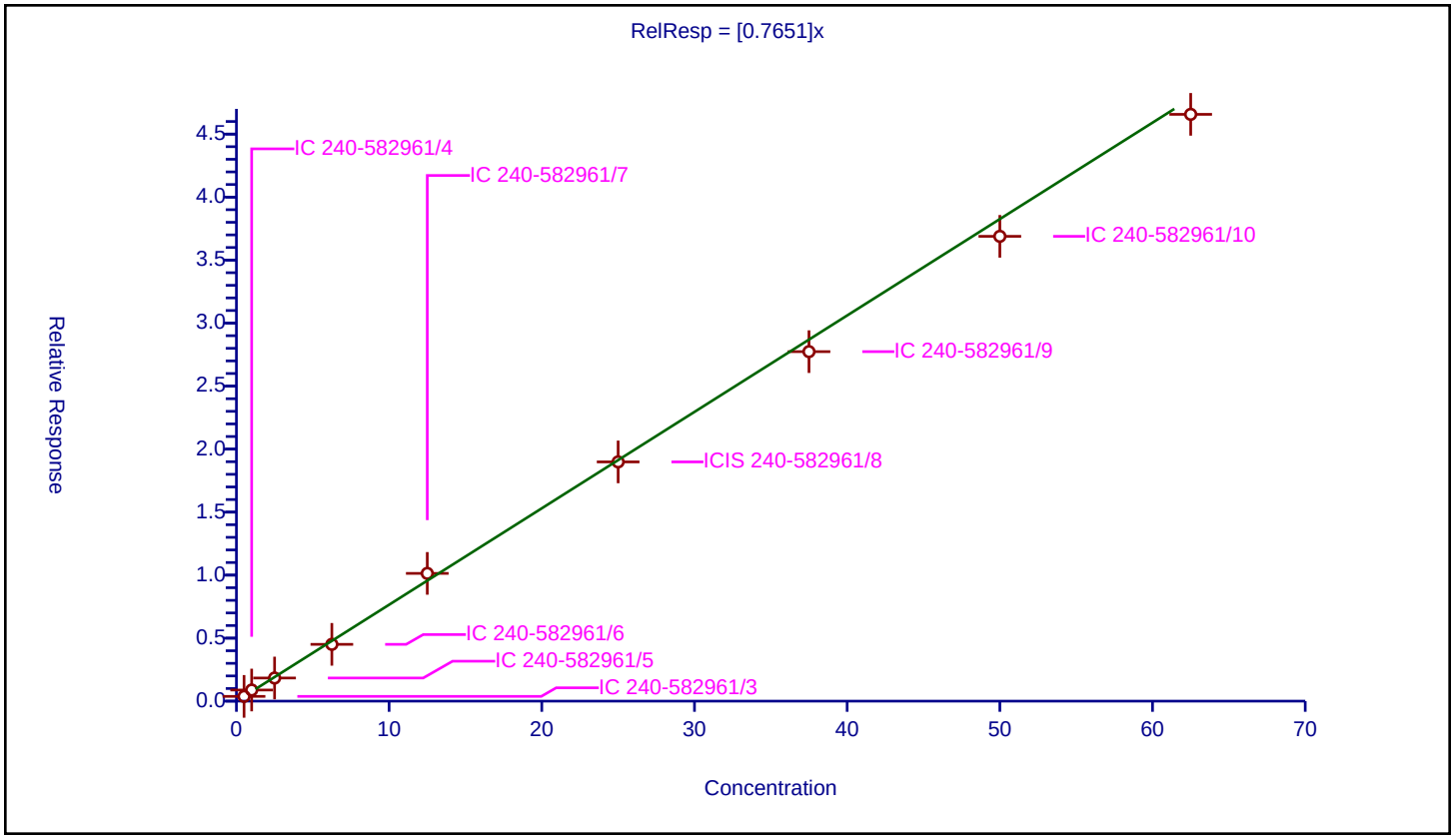
Curve Coefficients

Intercept:	0
Slope:	0.7651

Error Coefficients

Standard Error:	378000
Relative Standard Error:	6.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 240-582961/3	0.5	0.378055	25.0	381161.0	0.756111	Y
2	IC 240-582961/4	1.0	0.881944	25.0	380211.0	0.881944	Y
3	IC 240-582961/5	2.5	1.835107	25.0	403723.0	0.734043	Y
4	IC 240-582961/6	6.25	4.507082	25.0	394335.0	0.721133	Y
5	IC 240-582961/7	12.5	10.139067	25.0	331495.0	0.811125	Y
6	ICIS 240-582961/8	25.0	18.985789	25.0	372950.0	0.759432	Y
7	IC 240-582961/9	37.5	27.735725	25.0	375979.0	0.739619	Y
8	IC 240-582961/10	50.0	36.885341	25.0	394141.0	0.737707	Y
9	IC 240-582961/11	62.5	46.566889	25.0	389013.0	0.74507	Y



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Lab Sample ID: ICV 240-582961/13 Calibration Date: 08/04/2023 20:00

Instrument ID: A3UX23 Calib Start Date: 08/04/2023 15:49

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 08/04/2023 19:09

Lab File ID: 236438.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3256	0.3152	0.1000	0.0121	0.0125	-3.2	30.0
Chloromethane	Ave	0.4696	0.4480	0.1000	0.0119	0.0125	-4.6	30.0
Vinyl chloride	Ave	0.3263	0.3293	0.1000	0.0126	0.0125	0.9	30.0
Butadiene	Ave	0.4356	0.4273		0.0123	0.0125	-1.9	30.0
Bromomethane	Ave	0.1788	0.1820	0.0500	0.0127	0.0125	1.8	30.0
Chloroethane	Ave	0.1997	0.1976	0.0500	0.0124	0.0125	-1.0	30.0
Dichlorofluoromethane	Ave	0.3740	0.4506		0.0151	0.0125	20.5	30.0
Trichlorofluoromethane	Ave	0.3254	0.3401	0.1000	0.0131	0.0125	4.5	30.0
Ethyl ether	Ave	0.2728	0.2682		0.0246	0.0250	-1.7	30.0
Acrolein	Ave	0.0172	0.0262		0.191	0.125	53.0*	30.0
1,1-Dichloroethene	Ave	0.2146	0.2129	0.1000	0.0248	0.0250	-0.8	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1772	0.1783	0.0500	0.0252	0.0250	0.6	30.0
Acetone	Lin1		0.0458	0.0100	0.0598	0.0500	19.6	50.0
Iodomethane	Ave	0.3420	0.3538		0.0259	0.0250	3.5	30.0
Carbon disulfide	Ave	0.6628	0.6980	0.1000	0.0263	0.0250	5.3	30.0
3-Chloro-1-propene	Ave	0.6206	0.5906		0.0238	0.0250	-4.8	30.0
Methyl acetate	Ave	0.3965	0.3766	0.0500	0.0475	0.0500	-5.0	50.0
Methylene Chloride	Lin1		0.2642	0.1000	0.0259	0.0250	3.6	50.0
2-Methyl-2-propanol	Ave	0.0355	0.0460		0.324	0.250	29.5	30.0
Acrylonitrile	Ave	0.1692	0.1783		0.263	0.250	5.4	30.0
trans-1,2-Dichloroethene	Ave	0.2652	0.2499	0.1000	0.0236	0.0250	-5.8	30.0
Methyl tert-butyl ether	Ave	0.7969	0.7771	0.1000	0.0244	0.0250	-2.5	30.0
Hexane	Ave	0.4143	0.3859		0.0233	0.0250	-6.9	30.0
1,1-Dichloroethane	Ave	0.5249	0.5152	0.2000	0.0245	0.0250	-1.8	30.0
Vinyl acetate	Ave	0.6979	0.7166		0.0257	0.0250	2.7	30.0
2,2-Dichloropropane	Ave	0.0669	0.0674		0.0252	0.0250	0.7	30.0
cis-1,2-Dichloroethene	Ave	0.2943	0.2739	0.1000	0.0233	0.0250	-6.9	30.0
2-Butanone (MEK)	Ave	0.0458	0.0419	0.0100	0.0457	0.0500	-8.5	50.0
Chlorobromomethane	Ave	0.1355	0.1231		0.0227	0.0250	-9.1	30.0
Tetrahydrofuran	Ave	0.1580	0.1508		0.0478	0.0500	-4.5	30.0
Chloroform	Ave	0.4729	0.4495	0.2000	0.0238	0.0250	-4.9	30.0
1,1,1-Trichloroethane	Ave	0.4056	0.3944	0.1000	0.0243	0.0250	-2.8	30.0
Cyclohexane	Ave	0.5318	0.5354	0.1000	0.0252	0.0250	0.7	30.0
1,1-Dichloropropene	Ave	0.3572	0.3299		0.0231	0.0250	-7.7	30.0
Carbon tetrachloride	Ave	0.3532	0.3301	0.1000	0.0234	0.0250	-6.5	30.0
Benzene	Ave	1.065	0.997	0.5000	0.0234	0.0250	-6.4	30.0
1,2-Dichloroethane	Ave	0.4522	0.4256	0.1000	0.0235	0.0250	-5.9	30.0
Isobutyl alcohol	Ave	0.0162	0.0178		0.686	0.625	9.8	30.0
n-Heptane	Ave	0.0541	0.0499		0.0231	0.0250	-7.7	30.0
Trichloroethene	Ave	0.2692	0.2419	0.1500	0.0225	0.0250	-10.2	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Lab Sample ID: ICV 240-582961/13 Calibration Date: 08/04/2023 20:00

Instrument ID: A3UX23 Calib Start Date: 08/04/2023 15:49

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 08/04/2023 19:09

Lab File ID: 236438.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	0.4097	0.4000	0.1000	0.0244	0.0250	-2.4	30.0
1,2-Dichloropropane	Ave	0.2866	0.2682	0.1000	0.0234	0.0250	-6.4	30.0
Dibromomethane	Ave	0.1601	0.1552		0.0242	0.0250	-3.1	30.0
1,4-Dioxane	Ave	0.0026	0.0027		0.534	0.500	6.8	50.0
Dichlorobromomethane	Ave	0.3405	0.3121	0.1500	0.0229	0.0250	-8.4	30.0
2-Chloroethyl vinyl ether	Ave	0.2044	0.1810		0.0221	0.0250	-11.5	30.0
cis-1,3-Dichloropropene	Ave	0.4039	0.3574	0.1500	0.0221	0.0250	-11.5	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4539	0.4545	0.0500	0.0501	0.0500	0.1	50.0
Toluene	Ave	1.542	1.373	0.4000	0.0223	0.0250	-10.9	30.0
trans-1,3-Dichloropropene	Ave	0.5141	0.4811	0.1000	0.0234	0.0250	-6.4	30.0
Ethyl methacrylate	Ave	0.4599	0.4214		0.0229	0.0250	-8.4	30.0
1,1,2-Trichloroethane	Ave	0.3156	0.2978	0.1000	0.0236	0.0250	-5.6	30.0
Tetrachloroethene	Ave	0.2625	0.2451	0.1500	0.0233	0.0250	-6.6	30.0
1,3-Dichloropropane	Ave	0.5592	0.5177		0.0231	0.0250	-7.4	30.0
2-Hexanone	Ave	0.4253	0.4060	0.0500	0.0477	0.0500	-4.5	50.0
Chlorodibromomethane	Ave	0.3253	0.3156		0.0243	0.0250	-3.0	30.0
Ethylene Dibromide	Ave	0.3237	0.2973		0.0230	0.0250	-8.1	30.0
Chlorobenzene	Ave	0.9478	0.8633	0.3000	0.0228	0.0250	-8.9	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3277	0.3235		0.0247	0.0250	-1.3	30.0
Ethylbenzene	Ave	0.5284	0.4754		0.0225	0.0250	-10.0	30.0
m-Xylene & p-Xylene	Ave	0.6324	0.5830		0.0230	0.0250	-7.8	30.0
o-Xylene	Ave	0.6359	0.6029		0.0237	0.0250	-5.2	30.0
Styrene	Ave	0.9533	0.8830	0.3000	0.0232	0.0250	-7.4	30.0
Bromoform	Ave	0.1965	0.1876	0.1000	0.0239	0.0250	-4.5	30.0
Isopropylbenzene	Ave	1.577	1.552	0.1000	0.0246	0.0250	-1.5	30.0
Bromobenzene	Ave	0.7743	0.7049		0.0228	0.0250	-9.0	30.0
1,1,2,2-Tetrachloroethane	Ave	0.9329	0.9238	0.3000	0.0248	0.0250	-1.0	30.0
1,2,3-Trichloropropane	Ave	0.3105	0.2993		0.0241	0.0250	-3.6	30.0
trans-1,4-Dichloro-2-butene	Ave	0.3724	0.3237		0.0217	0.0250	-13.1	30.0
N-Propylbenzene	Ave	0.8937	0.8476		0.0237	0.0250	-5.2	30.0
2-Chlorotoluene	Ave	0.7613	0.7448		0.0245	0.0250	-2.2	30.0
1,3,5-Trimethylbenzene	Ave	2.682	2.703		0.0252	0.0250	0.8	30.0
4-Chlorotoluene	Ave	0.7764	0.7099		0.0229	0.0250	-8.6	30.0
tert-Butylbenzene	Ave	2.264	2.271		0.0251	0.0250	0.3	30.0
1,2,4-Trimethylbenzene	Ave	2.790	2.721		0.0244	0.0250	-2.5	30.0
sec-Butylbenzene	Ave	3.145	3.183		0.0253	0.0250	1.2	30.0
1,3-Dichlorobenzene	Ave	1.427	1.328	0.6000	0.0233	0.0250	-6.9	30.0
4-Isopropyltoluene	Ave	2.672	2.661		0.0249	0.0250	-0.4	30.0
1,4-Dichlorobenzene	Ave	1.456	1.357	0.5000	0.0233	0.0250	-6.8	30.0
1,2-Dichlorobenzene	Ave	1.390	1.358	0.4000	0.0244	0.0250	-2.3	30.0
n-Butylbenzene	Ave	2.312	2.267		0.0245	0.0250	-1.9	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Lab Sample ID: ICV 240-582961/13 Calibration Date: 08/04/2023 20:00

Instrument ID: A3UX23 Calib Start Date: 08/04/2023 15:49

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 08/04/2023 19:09

Lab File ID: 236438.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1959	0.1872	0.0500	0.0239	0.0250	-4.4	50.0
1,2,4-Trichlorobenzene	Ave	0.8237	0.8526	0.2000	0.0259	0.0250	3.5	50.0
Hexachlorobutadiene	Ave	0.2741	0.2942		0.0268	0.0250	7.3	50.0
Naphthalene	Ave	2.907	3.098		0.0266	0.0250	6.6	50.0
1,2,3-Trichlorobenzene	Ave	0.7651	0.8322		0.0272	0.0250	8.8	30.0
Dibromofluoromethane (Surr)	Ave	0.2196	0.2262		0.0258	0.0250	3.0	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3179	0.3230		0.0254	0.0250	1.6	30.0
Toluene-d8 (Surr)	Ave	1.218	1.228		0.0252	0.0250	0.8	30.0
4-Bromofluorobenzene (Surr)	Ave	0.4873	0.4864		0.0250	0.0250	-0.2	30.0

Eurofins Cleveland
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\236438.D
Lims ID: icv
Client ID:
Sample Type: ICV
Inject. Date: 04-Aug-2023 20:00:30 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0132136-013
Operator ID: Instrument ID: A3UX23
Sublist:

Method: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\8260_23.m
Limit Group: MSV 8260C ICAL
Last Update: 07-Aug-2023 10:45:53 Calib Date: 04-Aug-2023 19:09:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\236436.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1671

First Level Reviewer: SE1B Date: 05-Aug-2023 11:27:14

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.591	6.591	0.000	98	769182	25.0	25.0	
* 2 Chlorobenzene-d5	117	9.738	9.738	0.000	89	553520	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	12.058	12.057	0.001	97	265651	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.810	5.810	0.000	90	174002	25.0	25.8	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.200	6.188	0.012	97	248433	25.0	25.4	
$ 6 Toluene-d8 (Surr)	98	8.283	8.283	0.000	96	679753	25.0	25.2	
$ 7 4-Bromofluorobenzene (Surr)	95	10.910	10.910	0.000	85	269216	25.0	25.0	
9 Dichlorodifluoromethane	85	1.266	1.266	0.000	99	121208	12.5	12.1	
10 Chloromethane	50	1.432	1.431	0.001	99	172311	12.5	11.9	
11 Vinyl chloride	62	1.526	1.526	0.000	98	126665	12.5	12.6	
12 Butadiene	54	1.550	1.550	0.000	97	164342	12.5	12.3	
13 Bromomethane	94	1.834	1.834	0.000	91	70004	12.5	12.7	
14 Chloroethane	64	1.917	1.917	0.000	97	75985	12.5	12.4	
15 Dichlorofluoromethane	67	2.130	2.130	0.000	99	173295	12.5	15.1	
16 Trichlorofluoromethane	101	2.177	2.177	0.000	99	130783	12.5	13.1	
17 Ethyl ether	59	2.473	2.473	0.000	97	206301	25.0	24.6	
18 Acrolein	56	2.603	2.603	0.000	99	100915	125.0	191.2	
19 1,1-Dichloroethene	96	2.698	2.698	0.000	94	163735	25.0	24.8	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.745	2.745	0.000	95	137183	25.0	25.2	
21 Acetone	58	2.804	2.792	0.012	98	70512	50.0	59.8	
23 Iodomethane	142	2.864	2.875	-0.011	99	272138	25.0	25.9	
24 Carbon disulfide	76	2.923	2.934	-0.011	99	536867	25.0	26.3	
26 3-Chloro-1-propene	41	3.148	3.147	0.001	87	454267	25.0	23.8	
27 Methyl acetate	43	3.230	3.218	0.012	100	579351	50.0	47.5	
28 Methylene Chloride	84	3.313	3.313	0.000	95	203189	25.0	25.9	
29 2-Methyl-2-propanol	59	3.609	3.609	0.000	93	353631	250.0	323.6	
30 Acrylonitrile	53	3.692	3.680	0.012	97	1371090	250.0	263.4	
32 trans-1,2-Dichloroethene	96	3.704	3.703	0.001	93	192201	25.0	23.6	
31 Methyl tert-butyl ether	73	3.763	3.763	0.000	96	597701	25.0	24.4	
33 Hexane	57	4.165	4.165	0.000	96	296800	25.0	23.3	
34 1,1-Dichloroethane	63	4.354	4.354	0.000	98	396301	25.0	24.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Vinyl acetate	43	4.508	4.508	0.000	97	551212	25.0	25.7	
41 2,2-Dichloropropane	97	5.171	5.171	0.000	88	51820	25.0	25.2	
39 cis-1,2-Dichloroethene	96	5.183	5.183	0.001	91	210667	25.0	23.3	
40 2-Butanone (MEK)	72	5.266	5.265	0.001	98	64393	50.0	45.7	
45 Chlorobromomethane	128	5.479	5.478	0.001	90	94722	25.0	22.7	
46 Tetrahydrofuran	42	5.585	5.585	0.000	93	232059	50.0	47.8	
47 Chloroform	83	5.621	5.608	0.013	99	345785	25.0	23.8	
48 1,1,1-Trichloroethane	97	5.810	5.810	0.000	97	303392	25.0	24.3	
49 Cyclohexane	56	5.857	5.857	0.000	97	411852	25.0	25.2	
51 Carbon tetrachloride	117	6.011	5.999	0.012	96	253925	25.0	23.4	
50 1,1-Dichloropropene	75	6.011	6.011	0.000	89	253718	25.0	23.1	
54 Benzene	78	6.248	6.247	0.001	97	767067	25.0	23.4	
53 1,2-Dichloroethane	62	6.283	6.283	0.000	96	327355	25.0	23.5	
52 Isobutyl alcohol	41	6.307	6.307	0.000	93	342102	625.0	686.5	
56 n-Heptane	100	6.615	6.614	0.001	98	38400	25.0	23.1	
58 Trichloroethene	130	7.005	6.993	0.012	97	186054	25.0	22.5	
60 Methylcyclohexane	83	7.194	7.194	0.000	97	307671	25.0	24.4	
61 1,2-Dichloropropane	63	7.230	7.230	0.000	94	206298	25.0	23.4	
63 Dibromomethane	93	7.360	7.348	0.012	96	119385	25.0	24.2	
64 1,4-Dioxane	88	7.431	7.431	0.000	96	41918	500.0	534.0	
65 Dichlorobromomethane	83	7.549	7.537	0.012	98	240060	25.0	22.9	
67 2-Chloroethyl vinyl ether	63	7.892	7.892	0.000	89	139202	25.0	22.1	
68 cis-1,3-Dichloropropene	75	8.023	8.022	0.001	88	274874	25.0	22.1	
69 4-Methyl-2-pentanone (MIBK)	43	8.212	8.212	0.000	99	699119	50.0	50.1	
70 Toluene	91	8.354	8.354	0.000	97	760143	25.0	22.3	
71 trans-1,3-Dichloropropene	75	8.591	8.590	0.001	96	266311	25.0	23.4	
72 Ethyl methacrylate	69	8.721	8.721	0.000	93	233228	25.0	22.9	
73 1,1,2-Trichloroethane	97	8.768	8.768	0.000	94	164854	25.0	23.6	
75 Tetrachloroethene	164	8.910	8.910	0.000	95	135644	25.0	23.3	
74 1,3-Dichloropropane	76	8.934	8.934	0.000	97	286572	25.0	23.1	
76 2-Hexanone	43	9.052	9.052	0.000	98	449477	50.0	47.7	
78 Chlorodibromomethane	129	9.159	9.158	0.001	90	174688	25.0	24.3	
80 Ethylene Dibromide	107	9.265	9.265	0.000	98	164577	25.0	23.0	
82 Chlorobenzene	112	9.762	9.762	0.000	91	477881	25.0	22.8	
83 1,1,1,2-Tetrachloroethane	131	9.857	9.857	0.001	95	179072	25.0	24.7	
84 Ethylbenzene	106	9.880	9.880	0.000	99	263158	25.0	22.5	
85 m-Xylene & p-Xylene	106	9.999	9.999	0.001	97	322722	25.0	23.0	
86 o-Xylene	106	10.389	10.389	0.000	96	333725	25.0	23.7	
87 Styrene	104	10.401	10.401	0.000	95	488743	25.0	23.2	
88 Bromoform	173	10.579	10.578	0.001	95	103846	25.0	23.9	
89 Isopropylbenzene	105	10.768	10.768	0.000	97	859283	25.0	24.6	
93 Bromobenzene	156	11.052	11.052	0.000	97	187258	25.0	22.8	
92 1,1,2,2-Tetrachloroethane	83	11.064	11.063	0.001	98	245421	25.0	24.8	
95 1,2,3-Trichloropropane	110	11.099	11.099	0.000	91	79497	25.0	24.1	
94 trans-1,4-Dichloro-2-butene	53	11.123	11.123	0.000	78	85987	25.0	21.7	
96 N-Propylbenzene	120	11.170	11.170	0.000	99	225169	25.0	23.7	
97 2-Chlorotoluene	126	11.253	11.253	0.000	96	197863	25.0	24.5	
99 1,3,5-Trimethylbenzene	105	11.348	11.347	0.001	94	717953	25.0	25.2	
100 4-Chlorotoluene	126	11.360	11.359	0.001	99	188589	25.0	22.9	
102 tert-Butylbenzene	119	11.667	11.667	0.000	94	603238	25.0	25.1	
104 1,2,4-Trimethylbenzene	105	11.715	11.714	0.001	98	722798	25.0	24.4	
105 sec-Butylbenzene	105	11.892	11.892	0.000	95	845458	25.0	25.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,3-Dichlorobenzene	146	11.987	11.986	0.001	97	352675	25.0	23.3	
107 4-Isopropyltoluene	119	12.034	12.034	0.000	97	706936	25.0	24.9	
108 1,4-Dichlorobenzene	146	12.081	12.081	0.000	93	360568	25.0	23.3	
111 n-Butylbenzene	91	12.448	12.448	0.000	97	602277	25.0	24.5	
112 1,2-Dichlorobenzene	146	12.448	12.448	0.000	78	360840	25.0	24.4	
113 1,2-Dibromo-3-Chloropropane	157	13.217	13.217	0.000	75	49718	25.0	23.9	
115 1,2,4-Trichlorobenzene	180	14.046	14.045	0.001	93	226502	25.0	25.9	
116 Hexachlorobutadiene	225	14.235	14.235	0.000	97	78167	25.0	26.8	
117 Naphthalene	128	14.282	14.282	0.000	98	822883	25.0	26.6	
118 1,2,3-Trichlorobenzene	180	14.531	14.531	0.001	95	221077	25.0	27.2	
S 134 Trihalomethanes, Total	1				0		100.0	94.8	
S 158 Total BTEX	1				0		125.0	114.9	
S 133 Xylenes, Total	106				0		50.0	46.8	

QC Flag Legend

Processing Flags

Reagents:

VMFASPW_00503	Amount Added: 20.00	Units: uL		
VMFASAW_00474	Amount Added: 20.00	Units: uL		
VMFASGW_00520	Amount Added: 10.00	Units: uL		
vm125UX21_SS_00007	Amount Added: 1.00	Units: uL	Run Reagent	
vm40ml_vials_00024	Amount Added: 0.00	Units:	Run Reagent	
vm125UX21_IS_00050	Amount Added: 1.00	Units: uL	Run Reagent	
vmDist_H2o_00237	Amount Added: 0.00	Units:	Run Reagent	

Report Date: 07-Aug-2023 10:45:55 Chrom Revision: 2.3 03-Aug-2023 16:11:04

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\236438.D

Injection Date: 04-Aug-2023 20:00:30 Instrument ID: A3UX23 Operator ID:

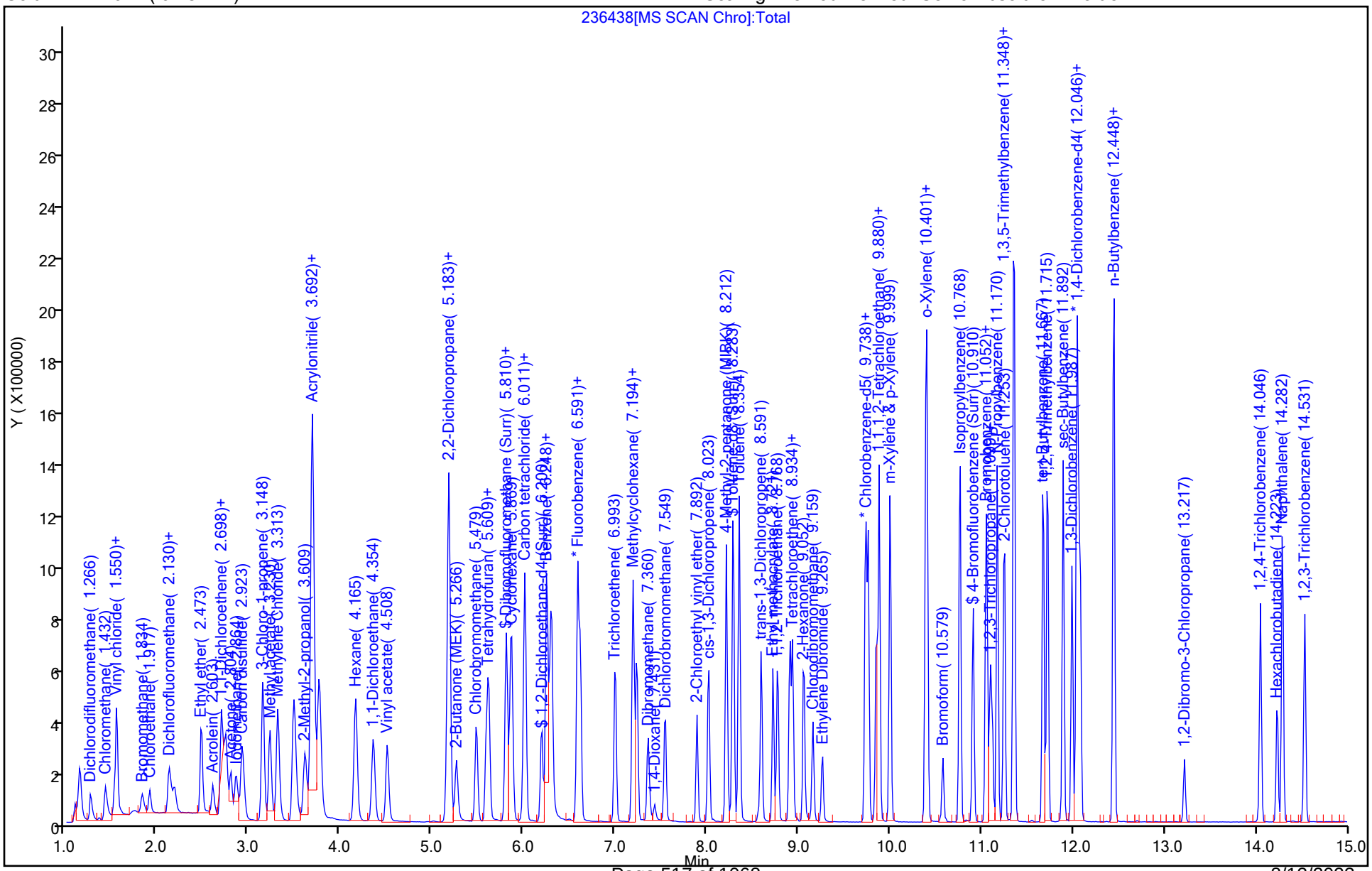
Lims ID: icv Worklist Smp#: 13

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 12

Method: 8260_23 Limit Group: MSV 8260C ICAL

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Lab Sample ID: CCVIS 240-583235/3 Calibration Date: 08/08/2023 13:38

Instrument ID: A3UX23 Calib Start Date: 08/04/2023 15:49

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 08/04/2023 19:09

Lab File ID: 236500.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3256	0.3823	0.1000	0.0147	0.0125	17.4	20.0
Chloromethane	Ave	0.4696	0.4844	0.1000	0.0129	0.0125	3.1	20.0
Vinyl chloride	Ave	0.3263	0.3245	0.1000	0.0124	0.0125	-0.6	20.0
Butadiene	Ave	0.4356	0.4666		0.0134	0.0125	7.1	20.0
Bromomethane	Ave	0.1788	0.1456	0.0500	0.0102	0.0125	-18.6	20.0
Chloroethane	Ave	0.1997	0.2454	0.0500	0.0154	0.0125	22.9*	20.0
Dichlorofluoromethane	Ave	0.3740	0.4334		0.0145	0.0125	15.9	20.0
Trichlorofluoromethane	Ave	0.3254	0.3721	0.1000	0.0143	0.0125	14.4	20.0
Ethyl ether	Ave	0.2728	0.2680		0.0246	0.0250	-1.7	20.0
Acrolein	Ave	0.0172	0.0185		0.135	0.125	7.8	20.0
1,1-Dichloroethene	Ave	0.2146	0.1950	0.1000	0.0227	0.0250	-9.1	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1772	0.1677	0.0500	0.0237	0.0250	-5.4	20.0
Acetone	Lin1		0.0402	0.0100	0.0522	0.0500	4.4	50.0
Iodomethane	Ave	0.3420	0.3123		0.0228	0.0250	-8.7	20.0
Carbon disulfide	Ave	0.6628	0.6239	0.1000	0.0235	0.0250	-5.9	20.0
3-Chloro-1-propene	Ave	0.6206	0.5181		0.0209	0.0250	-16.5	20.0
Methyl acetate	Ave	0.3965	0.3840	0.0500	0.0484	0.0500	-3.2	50.0
Methylene Chloride	Lin1		0.2462	0.1000	0.0241	0.0250	-3.6	50.0
2-Methyl-2-propanol	Ave	0.0355	0.0418		0.295	0.250	17.8	20.0
Acrylonitrile	Ave	0.1692	0.1704		0.252	0.250	0.7	20.0
trans-1,2-Dichloroethene	Ave	0.2652	0.2351	0.1000	0.0222	0.0250	-11.4	20.0
Methyl tert-butyl ether	Ave	0.7969	0.7472	0.1000	0.0234	0.0250	-6.2	20.0
Hexane	Ave	0.4143	0.3920		0.0237	0.0250	-5.4	20.0
1,1-Dichloroethane	Ave	0.5249	0.4902	0.2000	0.0233	0.0250	-6.6	20.0
Vinyl acetate	Ave	0.6979	0.6772		0.0243	0.0250	-3.0	20.0
2,2-Dichloropropane	Ave	0.0669	0.0557		0.0208	0.0250	-16.8	20.0
cis-1,2-Dichloroethene	Ave	0.2943	0.2645	0.1000	0.0225	0.0250	-10.1	20.0
2-Butanone (MEK)	Ave	0.0458	0.0445	0.0100	0.0487	0.0500	-2.7	50.0
Chlorobromomethane	Ave	0.1355	0.1249		0.0231	0.0250	-7.8	20.0
Tetrahydrofuran	Ave	0.1580	0.1516		0.0480	0.0500	-4.1	20.0
Chloroform	Ave	0.4729	0.4355	0.2000	0.0230	0.0250	-7.9	20.0
1,1,1-Trichloroethane	Ave	0.4056	0.3720	0.1000	0.0229	0.0250	-8.3	20.0
Cyclohexane	Ave	0.5318	0.5182	0.1000	0.0244	0.0250	-2.6	20.0
Carbon tetrachloride	Ave	0.3532	0.3112	0.1000	0.0220	0.0250	-11.9	20.0
1,1-Dichloropropene	Ave	0.3572	0.3415		0.0239	0.0250	-4.4	20.0
Benzene	Ave	1.065	1.022	0.5000	0.0240	0.0250	-4.1	20.0
1,2-Dichloroethane	Ave	0.4522	0.4343	0.1000	0.0240	0.0250	-4.0	20.0
Isobutyl alcohol	Ave	0.0162	0.0186		0.717	0.625	14.7	20.0
n-Heptane	Ave	0.0541	0.0565		0.0261	0.0250	4.6	20.0
Trichloroethene	Ave	0.2692	0.2512	0.1500	0.0233	0.0250	-6.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Lab Sample ID: CCVIS 240-583235/3 Calibration Date: 08/08/2023 13:38

Instrument ID: A3UX23 Calib Start Date: 08/04/2023 15:49

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 08/04/2023 19:09

Lab File ID: 236500.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	0.4097	0.4044	0.1000	0.0247	0.0250	-1.3	20.0
1,2-Dichloropropane	Ave	0.2866	0.2825	0.1000	0.0246	0.0250	-1.4	20.0
Dibromomethane	Ave	0.1601	0.1574		0.0246	0.0250	-1.7	20.0
1,4-Dioxane	Ave	0.0026	0.0030		0.597	0.500	19.4	50.0
Dichlorobromomethane	Ave	0.3405	0.3293	0.1500	0.0242	0.0250	-3.3	20.0
2-Chloroethyl vinyl ether	Ave	0.2044	0.2098		0.0513	0.0500	2.7	20.0
cis-1,3-Dichloropropene	Ave	0.4039	0.4014	0.1500	0.0248	0.0250	-0.6	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4539	0.4924	0.0500	0.0542	0.0500	8.5	50.0
Toluene	Ave	1.542	1.459	0.4000	0.0237	0.0250	-5.4	20.0
trans-1,3-Dichloropropene	Ave	0.5141	0.5028	0.1000	0.0245	0.0250	-2.2	20.0
Ethyl methacrylate	Ave	0.4599	0.5022		0.0273	0.0250	9.2	20.0
1,1,2-Trichloroethane	Ave	0.3156	0.3118	0.1000	0.0247	0.0250	-1.2	20.0
Tetrachloroethene	Ave	0.2625	0.2528	0.1500	0.0241	0.0250	-3.7	20.0
1,3-Dichloropropane	Ave	0.5592	0.5532		0.0247	0.0250	-1.1	20.0
2-Hexanone	Ave	0.4253	0.4581	0.0500	0.0539	0.0500	7.7	50.0
Chlorodibromomethane	Ave	0.3253	0.3217		0.0247	0.0250	-1.1	20.0
Ethylene Dibromide	Ave	0.3237	0.3200		0.0247	0.0250	-1.1	20.0
Chlorobenzene	Ave	0.9478	0.9013	0.3000	0.0238	0.0250	-4.9	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3277	0.3117		0.0238	0.0250	-4.9	20.0
Ethylbenzene	Ave	0.5284	0.5034		0.0238	0.0250	-4.7	20.0
m-Xylene & p-Xylene	Ave	0.6324	0.6262		0.0248	0.0250	-1.0	20.0
o-Xylene	Ave	0.6359	0.6198		0.0244	0.0250	-2.5	20.0
Styrene	Ave	0.9533	1.005	0.3000	0.0264	0.0250	5.5	20.0
Bromoform	Ave	0.1965	0.2066	0.1000	0.0263	0.0250	5.1	20.0
Isopropylbenzene	Ave	1.577	1.548	0.1000	0.0245	0.0250	-1.8	20.0
1,1,2,2-Tetrachloroethane	Ave	0.9329	0.8870	0.3000	0.0238	0.0250	-4.9	20.0
Bromobenzene	Ave	0.7743	0.7077		0.0228	0.0250	-8.6	20.0
1,2,3-Trichloropropane	Ave	0.3105	0.2855		0.0230	0.0250	-8.0	20.0
trans-1,4-Dichloro-2-butene	Ave	0.3724	0.3125		0.0210	0.0250	-16.1	20.0
N-Propylbenzene	Ave	0.8937	0.8273		0.0231	0.0250	-7.4	20.0
2-Chlorotoluene	Ave	0.7613	0.7101		0.0233	0.0250	-6.7	20.0
1,3,5-Trimethylbenzene	Ave	2.682	2.552		0.0238	0.0250	-4.8	20.0
4-Chlorotoluene	Ave	0.7764	0.7356		0.0237	0.0250	-5.2	20.0
tert-Butylbenzene	Ave	2.264	2.188		0.0242	0.0250	-3.3	20.0
1,2,4-Trimethylbenzene	Ave	2.790	2.648		0.0237	0.0250	-5.1	20.0
sec-Butylbenzene	Ave	3.145	3.084		0.0245	0.0250	-1.9	20.0
1,3-Dichlorobenzene	Ave	1.427	1.361	0.6000	0.0239	0.0250	-4.6	20.0
4-Isopropyltoluene	Ave	2.672	2.647		0.0248	0.0250	-0.9	20.0
1,4-Dichlorobenzene	Ave	1.456	1.390	0.5000	0.0239	0.0250	-4.5	20.0
n-Butylbenzene	Ave	2.312	2.343		0.0253	0.0250	1.4	20.0
1,2-Dichlorobenzene	Ave	1.390	1.344	0.4000	0.0242	0.0250	-3.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Lab Sample ID: CCVIS 240-583235/3 Calibration Date: 08/08/2023 13:38

Instrument ID: A3UX23 Calib Start Date: 08/04/2023 15:49

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 08/04/2023 19:09

Lab File ID: 236500.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1959	0.1950	0.0500	0.0249	0.0250	-0.4	50.0
1,2,4-Trichlorobenzene	Ave	0.8237	0.8336	0.2000	0.0253	0.0250	1.2	50.0
Hexachlorobutadiene	Ave	0.2741	0.3091		0.0282	0.0250	12.8	50.0
Naphthalene	Ave	2.907	3.020		0.0260	0.0250	3.9	50.0
1,2,3-Trichlorobenzene	Ave	0.7651	0.8138		0.0266	0.0250	6.4	20.0
Dibromofluoromethane (Surr)	Ave	0.2196	0.2357		0.0268	0.0250	7.4	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3179	0.3455		0.0272	0.0250	8.7	20.0
Toluene-d8 (Surr)	Ave	1.218	1.282		0.0263	0.0250	5.2	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4873	0.5011		0.0257	0.0250	2.8	20.0

Eurofins Cleveland
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX23\20230808-132221.b\236500.D
Lims ID: ccvis
Client ID:
Sample Type: CCVIS
Inject. Date: 08-Aug-2023 13:38:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0132221-003
Operator ID: Instrument ID: A3UX23
Sublist: chrom-8260_23*sub1

Method: \\chromfs\Canton\ChromData\A3UX23\20230808-132221.b\8260_23.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Aug-2023 09:50:51 Calib Date: 04-Aug-2023 19:09:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\236436.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1681

First Level Reviewer: PHN3 Date: 08-Aug-2023 14:15:04

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.591	6.591	0.000	98	988391	25.0	25.0	
* 2 Chlorobenzene-d5	117	9.726	9.726	0.000	93	746943	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	12.058	12.058	0.000	97	387401	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.810	5.810	0.000	79	232991	25.0	26.8	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.188	6.188	0.000	97	341536	25.0	27.2	
$ 6 Toluene-d8 (Surr)	98	8.283	8.283	0.000	96	957523	25.0	26.3	
$ 7 4-Bromofluorobenzene (Surr)	95	10.910	10.910	0.000	88	374306	25.0	25.7	
9 Dichlorodifluoromethane	85	1.266	1.266	0.000	99	188954	12.5	14.7	
10 Chloromethane	50	1.432	1.432	0.000	100	239369	12.5	12.9	
11 Vinyl chloride	62	1.526	1.526	0.000	98	160354	12.5	12.4	
12 Butadiene	54	1.550	1.550	0.000	96	230611	12.5	13.4	
13 Bromomethane	94	1.834	1.834	0.000	92	71939	12.5	10.2	
14 Chloroethane	64	1.917	1.917	0.000	96	121279	12.5	15.4	
15 Dichlorofluoromethane	67	2.130	2.130	0.000	99	214196	12.5	14.5	
16 Trichlorofluoromethane	101	2.177	2.177	0.000	98	183912	12.5	14.3	
17 Ethyl ether	59	2.473	2.473	0.000	97	264878	25.0	24.6	
18 Acrolein	56	2.603	2.603	0.000	98	91385	125.0	134.8	
19 1,1-Dichloroethene	96	2.698	2.698	0.000	94	192717	25.0	22.7	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.745	2.745	0.000	95	165707	25.0	23.7	
21 Acetone	58	2.792	2.792	0.000	98	79468	50.0	52.2	
23 Iodomethane	142	2.875	2.875	0.000	99	308684	25.0	22.8	
24 Carbon disulfide	76	2.934	2.934	0.000	99	616637	25.0	23.5	
26 3-Chloro-1-propene	41	3.147	3.147	0.000	87	512100	25.0	20.9	
27 Methyl acetate	43	3.218	3.218	0.000	100	759015	50.0	48.4	
28 Methylene Chloride	84	3.313	3.313	0.000	95	243320	25.0	24.1	
29 2-Methyl-2-propanol	59	3.597	3.597	0.000	92	413622	250.0	294.6	
30 Acrylonitrile	53	3.680	3.680	0.000	97	1683756	250.0	251.7	
32 trans-1,2-Dichloroethene	96	3.704	3.704	0.000	93	232385	25.0	22.2	
31 Methyl tert-butyl ether	73	3.763	3.763	0.000	96	738553	25.0	23.4	
33 Hexane	57	4.153	4.153	0.000	96	387487	25.0	23.7	
34 1,1-Dichloroethane	63	4.354	4.354	0.000	97	484503	25.0	23.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Vinyl acetate	43	4.496	4.496	0.000	97	669293	25.0	24.3	
41 2,2-Dichloropropane	97	5.171	5.171	0.000	88	55039	25.0	20.8	
39 cis-1,2-Dichloroethene	96	5.183	5.183	0.000	80	261468	25.0	22.5	
40 2-Butanone (MEK)	72	5.254	5.254	0.000	98	88052	50.0	48.7	
45 Chlorobromomethane	128	5.478	5.478	0.000	90	123499	25.0	23.1	
46 Tetrahydrofuran	42	5.585	5.585	0.000	91	299584	50.0	48.0	
47 Chloroform	83	5.609	5.609	0.000	99	430464	25.0	23.0	
48 1,1,1-Trichloroethane	97	5.810	5.810	0.000	97	367642	25.0	22.9	
49 Cyclohexane	56	5.857	5.857	0.000	97	512200	25.0	24.4	
51 Carbon tetrachloride	117	5.999	5.999	0.000	95	307552	25.0	22.0	
50 1,1-Dichloropropene	75	6.011	6.011	0.000	90	337556	25.0	23.9	
54 Benzene	78	6.248	6.248	0.000	97	1010117	25.0	24.0	
53 1,2-Dichloroethane	62	6.283	6.283	0.000	97	429277	25.0	24.0	
52 Isobutyl alcohol	41	6.295	6.295	0.000	93	459008	625.0	716.8	
56 n-Heptane	100	6.614	6.614	0.000	98	55876	25.0	26.1	
58 Trichloroethene	130	6.993	6.993	0.000	97	248255	25.0	23.3	
60 Methylcyclohexane	83	7.194	7.194	0.000	97	399671	25.0	24.7	
61 1,2-Dichloropropane	63	7.230	7.230	0.000	94	279229	25.0	24.6	
63 Dibromomethane	93	7.348	7.348	0.000	95	155548	25.0	24.6	
64 1,4-Dioxane	88	7.419	7.419	0.000	95	60241	500.0	597.2	
65 Dichlorobromomethane	83	7.537	7.537	0.000	97	325464	25.0	24.2	
67 2-Chloroethyl vinyl ether	63	7.892	7.892	0.000	91	414778	50.0	51.3	
68 cis-1,3-Dichloropropene	75	8.011	8.011	0.000	88	396761	25.0	24.8	
69 4-Methyl-2-pentanone (MIBK)	43	8.212	8.212	0.000	99	973365	50.0	54.2	
70 Toluene	91	8.354	8.354	0.000	97	1089857	25.0	23.7	
71 trans-1,3-Dichloropropene	75	8.591	8.591	0.000	96	375594	25.0	24.5	
72 Ethyl methacrylate	69	8.721	8.721	0.000	95	375112	25.0	27.3	
73 1,1,2-Trichloroethane	97	8.768	8.768	0.000	95	232913	25.0	24.7	
75 Tetrachloroethene	164	8.910	8.910	0.000	99	188835	25.0	24.1	
74 1,3-Dichloropropane	76	8.934	8.934	0.000	96	413197	25.0	24.7	
76 2-Hexanone	43	9.052	9.052	0.000	98	684380	50.0	53.9	
78 Chlorodibromomethane	129	9.158	9.158	0.000	90	240328	25.0	24.7	
80 Ethylene Dibromide	107	9.253	9.253	0.000	98	239018	25.0	24.7	
82 Chlorobenzene	112	9.762	9.762	0.000	95	673229	25.0	23.8	
83 1,1,1,2-Tetrachloroethane	131	9.845	9.845	0.000	93	232835	25.0	23.8	
84 Ethylbenzene	106	9.880	9.880	0.000	99	376040	25.0	23.8	
85 m-Xylene & p-Xylene	106	9.999	9.999	0.000	97	467759	25.0	24.8	
86 o-Xylene	106	10.389	10.389	0.000	97	462936	25.0	24.4	
87 Styrene	104	10.401	10.401	0.000	92	750852	25.0	26.4	
88 Bromoform	173	10.578	10.578	0.000	96	154306	25.0	26.3	
89 Isopropylbenzene	105	10.756	10.756	0.000	98	1156153	25.0	24.5	
93 Bromobenzene	156	11.052	11.052	0.000	96	274149	25.0	22.8	
92 1,1,2,2-Tetrachloroethane	83	11.052	11.052	0.000	95	343644	25.0	23.8	
95 1,2,3-Trichloropropane	110	11.099	11.099	0.000	91	110614	25.0	23.0	
94 trans-1,4-Dichloro-2-butene	53	11.111	11.111	0.000	78	121055	25.0	21.0	
96 N-Propylbenzene	120	11.170	11.170	0.000	99	320501	25.0	23.1	
97 2-Chlorotoluene	126	11.253	11.253	0.000	97	275104	25.0	23.3	
99 1,3,5-Trimethylbenzene	105	11.348	11.348	0.000	94	988716	25.0	23.8	
100 4-Chlorotoluene	126	11.359	11.359	0.000	98	284986	25.0	23.7	
102 tert-Butylbenzene	119	11.667	11.667	0.000	94	847608	25.0	24.2	
104 1,2,4-Trimethylbenzene	105	11.714	11.714	0.000	98	1025880	25.0	23.7	
105 sec-Butylbenzene	105	11.892	11.892	0.000	95	1194905	25.0	24.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,3-Dichlorobenzene	146	11.987	11.987	0.000	97	527428	25.0	23.9	
107 4-Isopropyltoluene	119	12.034	12.034	0.000	97	1025380	25.0	24.8	
108 1,4-Dichlorobenzene	146	12.081	12.081	0.000	94	538581	25.0	23.9	
111 n-Butylbenzene	91	12.436	12.436	0.000	98	907776	25.0	25.3	
112 1,2-Dichlorobenzene	146	12.448	12.448	0.000	76	520676	25.0	24.2	
113 1,2-Dibromo-3-Chloropropane	157	13.217	13.217	0.000	77	75540	25.0	24.9	
115 1,2,4-Trichlorobenzene	180	14.045	14.045	0.000	94	322951	25.0	25.3	
116 Hexachlorobutadiene	225	14.235	14.235	0.000	95	119756	25.0	28.2	
117 Naphthalene	128	14.282	14.282	0.000	98	1169797	25.0	26.0	
118 1,2,3-Trichlorobenzene	180	14.531	14.531	0.000	95	315284	25.0	26.6	
S 134 Trihalomethanes, Total	1				0		100.0	98.2	
S 158 Total BTEX	1				0		125.0	120.6	
S 133 Xylenes, Total	106				0		50.0	49.1	

QC Flag Legend

Processing Flags

Reagents:

VMRPRIMW_00543	Amount Added: 20.00	Units: uL		
VMRGAS_00488	Amount Added: 10.00	Units: uL		
VMAROLISTDW_00496	Amount Added: 20.00	Units: uL		
vm40ml_vials_00024	Amount Added: 0.00	Units:	Run Reagent	
vm125UX21_IS_00050	Amount Added: 1.00	Units: uL	Run Reagent	
vmDist_H2o_00237	Amount Added: 0.00	Units:	Run Reagent	
vm125UX21_SS_00008	Amount Added: 1.00	Units: uL	Run Reagent	

Report Date: 09-Aug-2023 09:50:51 Chrom Revision: 2.3 03-Aug-2023 16:11:04

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A3UX23\20230808-132221.b\236500.D

Injection Date: 08-Aug-2023 13:38:30 Instrument ID: A3UX23 Operator ID:

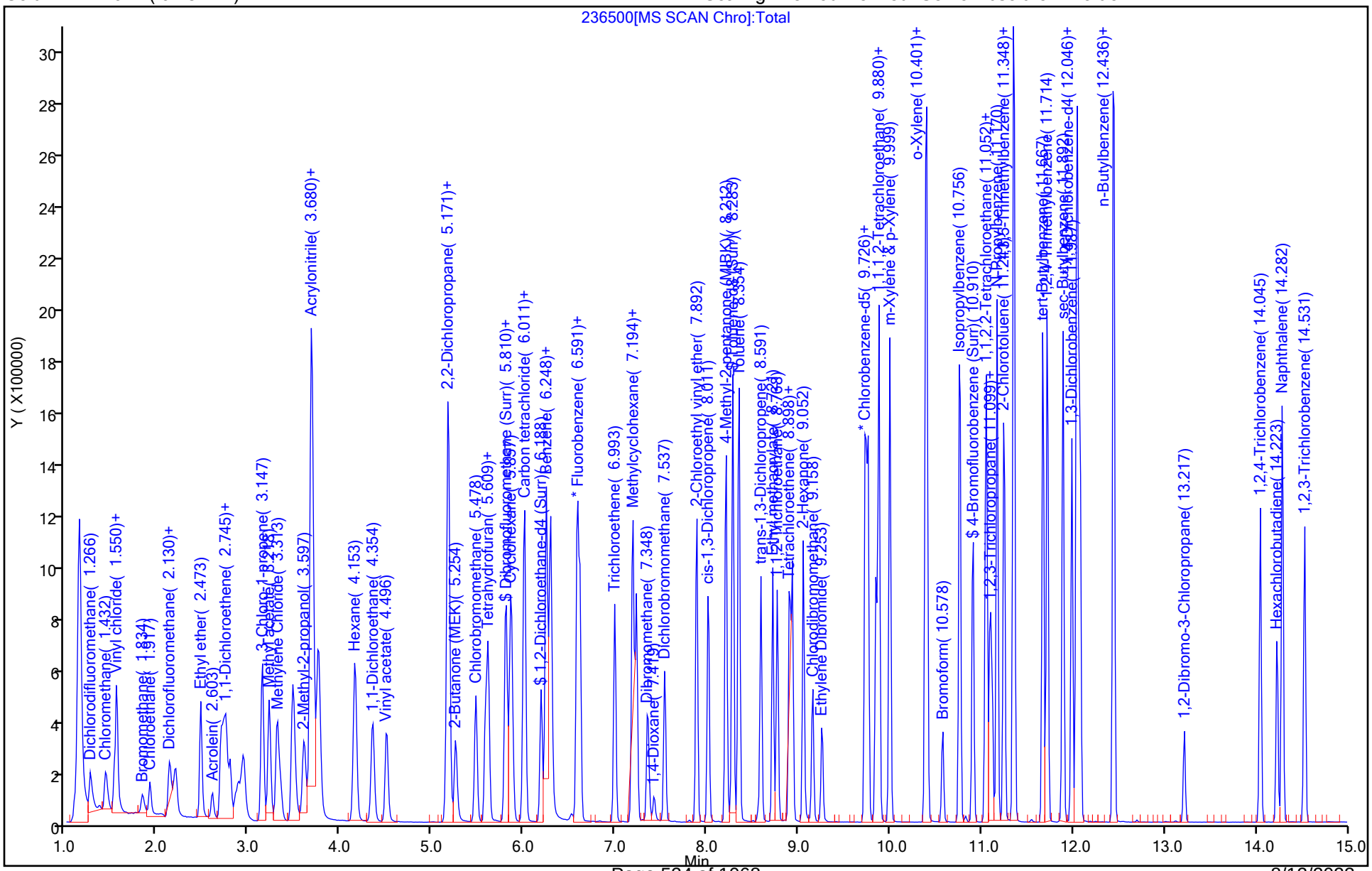
Lims ID: ccvis Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 2

Method: 8260_23 Limit Group: MSV 8260C ICAL

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Cleveland
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\BFB23433.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 04-Aug-2023 14:56:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: 240-0132136-001
Operator ID: Instrument ID: A3UX23

Method: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\8260_23.m
Limit Group: MSV 8260C ICAL
Last Update: 07-Aug-2023 10:45:53 Calib Date: 04-Aug-2023 19:09:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\236436.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1671

First Level Reviewer: SE1B Date: 07-Aug-2023 10:45:15

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 8 BFB	95	3.842	3.842	0.000	0	444425	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

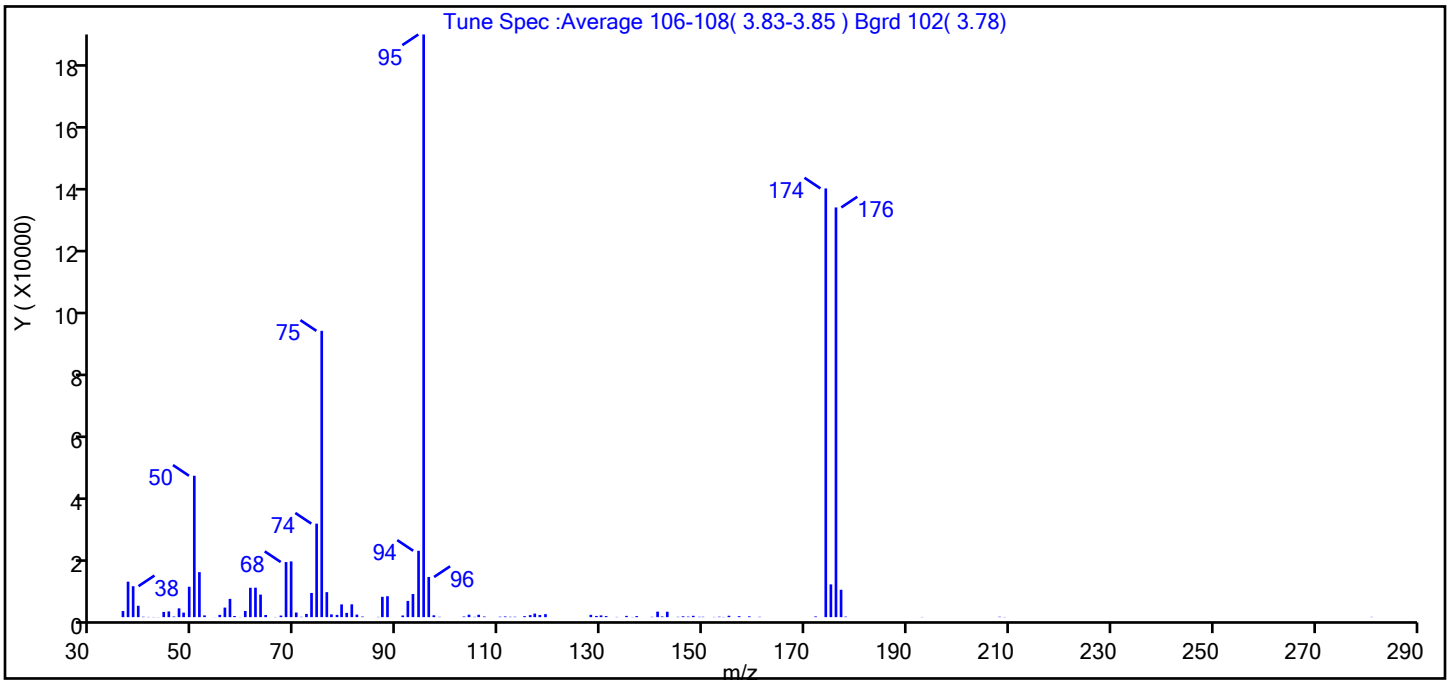
vmbfb_00032 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\BFB23433.D
Injection Date: 04-Aug-2023 14:56:30 Instrument ID: A3UX23
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260_23 Limit Group: MSV 8260C ICAL
Tune Method: BFB Method 8260

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	24.3
75	30 to 60% of m/z 95	49.1
96	5 to 9% of m/z 95	6.9
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	73.6
175	5 to 9% of m/z 174	5.6 (7.6)
176	Greater than 95% but less than 101% of m/z 174	70.3 (95.6)
177	5 to 9% of m/z 176	4.7 (6.7)

Data File: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\BFB23433.D\8260_23.rslt\spectra.d
Injection Date: 04-Aug-2023 14:56:30
Spectrum: Tune Spec :Average 106-108(3.83-3.85) Bgrd 102(3.78)
Base Peak: 95.10
Minimum % Base Peak: 0
Number of Points: 106

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1936	64.00	675	96.00	12709	142.00	213
37.00	11220	66.00	57	97.00	583	143.00	1712
38.00	9789	67.00	500	98.00	105	145.00	102
39.00	3595	68.00	17432	103.00	195	146.00	266
40.00	126	69.00	17632	104.00	779	147.00	166
41.00	71	70.00	1463	105.00	100	148.00	423
42.00	50	71.00	105	106.00	755	149.00	105
43.00	45	72.00	1024	107.00	198	150.00	116
44.00	1654	73.00	7657	110.00	142	152.00	67
45.00	1811	74.00	29584	111.00	215	153.00	142
46.00	192	75.00	90568	112.00	116	154.00	63
47.00	2780	76.00	7908	113.00	126	155.00	439
48.00	1437	77.00	869	115.00	318	157.00	301
49.00	9619	78.00	716	116.00	644	159.00	248
50.00	44728	79.00	4032	117.00	1133	161.00	107
51.00	14233	80.00	1349	118.00	684	172.00	224
52.00	554	81.00	4059	119.00	952	174.00	135616
54.00	26	82.00	814	128.00	730	175.00	10362
55.00	719	83.00	185	129.00	385	176.00	129608
56.00	3020	86.00	83	130.00	559	177.00	8660
57.00	5780	87.00	6432	131.00	337	178.00	166
58.00	352	88.00	6623	133.00	72	193.00	57
59.00	53	91.00	518	135.00	403	208.00	124
60.00	1951	92.00	5130	136.00	53	209.00	56
61.00	9291	93.00	7316	137.00	332	281.00	79
62.00	9322	94.00	20992	140.00	110		
63.00	7131	95.00	184320	141.00	1742		

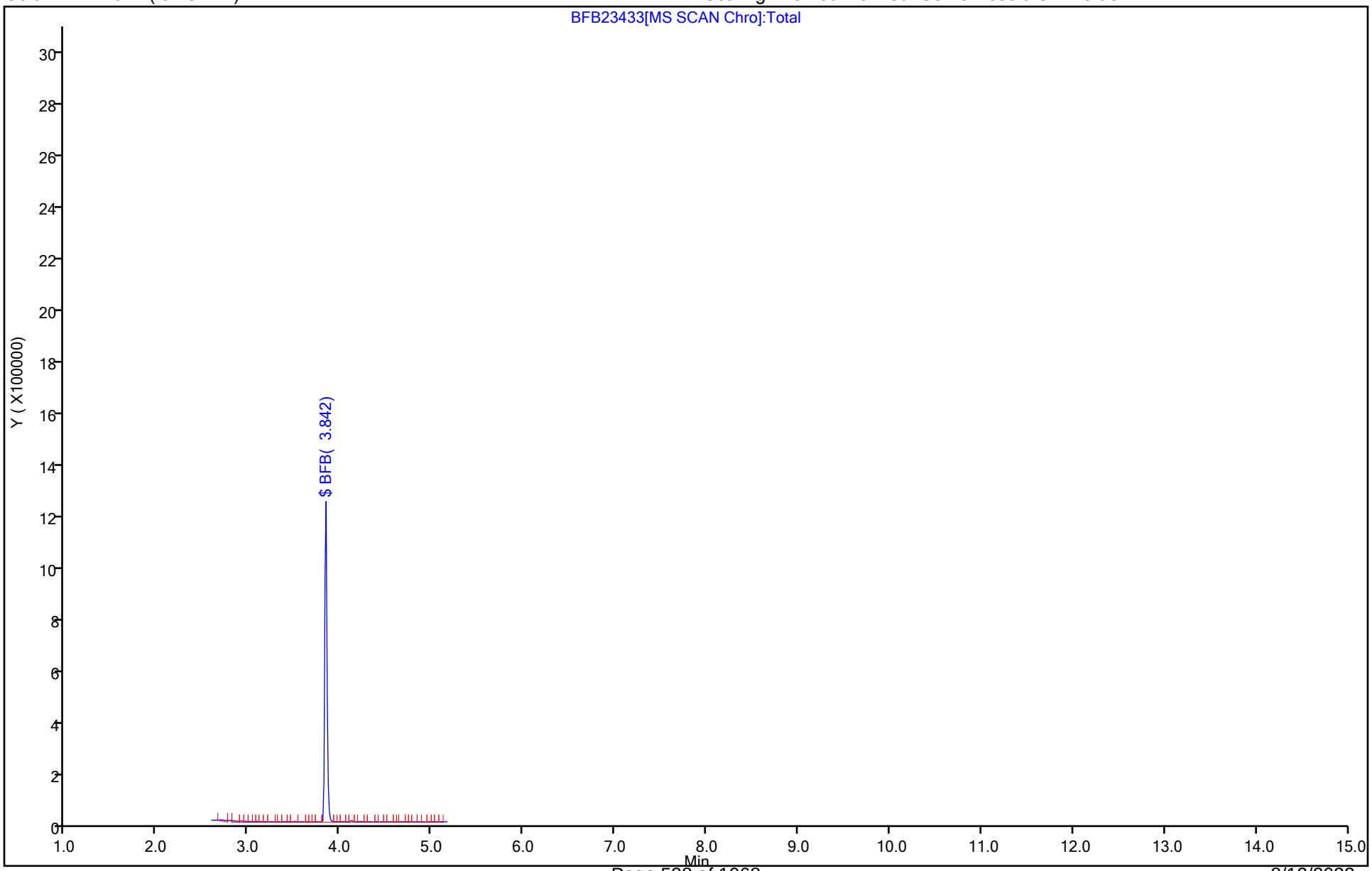
Report Date: 07-Aug-2023 10:45:53 Chrom Revision: 2.3 03-Aug-2023 16:11:04

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\BFB23433.D

Injection Date:	04-Aug-2023 14:56:30	Instrument ID:	A3UX23	Operator ID:	
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8260_23	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Cleveland
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX23\20230808-132221.b\BFB23436.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 08-Aug-2023 11:43:30 ALS Bottle#: 28 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: 240-013221-001
Operator ID: Instrument ID: A3UX23

Method: \\chromfs\Canton\ChromData\A3UX23\20230808-132221.b\8260_23.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Aug-2023 09:50:54 Calib Date: 04-Aug-2023 19:09:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\236436.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1681

First Level Reviewer: PHN3 Date: 08-Aug-2023 16:09:50

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 8 BFB	95	3.842	3.842	0.000	0	1026136	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

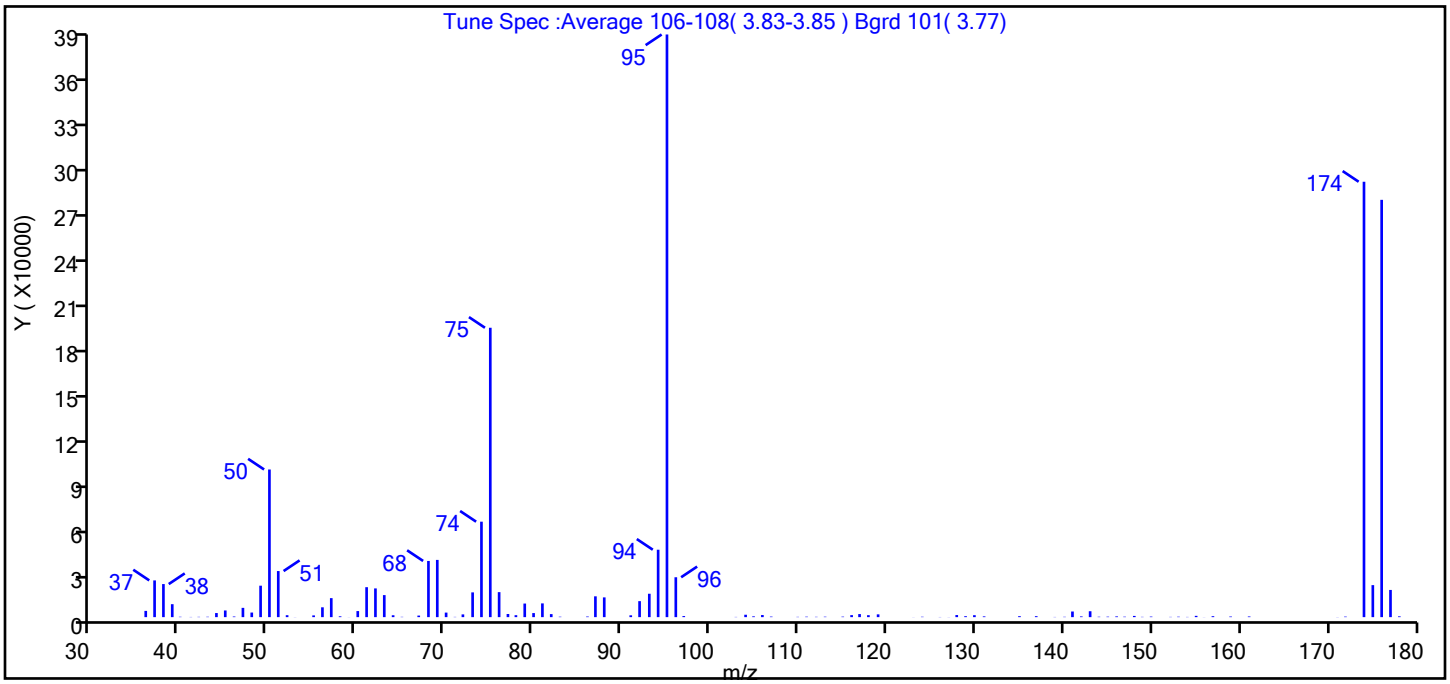
vmbfb_00032 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A3UX23\20230808-132221.b\BFB23436.D
Injection Date: 08-Aug-2023 11:43:30 Instrument ID: A3UX23
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 28 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260_23 Limit Group: MSV 8260C ICAL
Tune Method: BFB Method 8260

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	25.3
75	30 to 60% of m/z 95	49.7
96	5 to 9% of m/z 95	6.8
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	74.7
175	5 to 9% of m/z 174	5.5 (7.4)
176	Greater than 95% but less than 101% of m/z 174	71.6 (95.8)
177	5 to 9% of m/z 176	4.7 (6.5)

Data File: \\chromfs\Canton\ChromData\A3UX23\20230808-132221.b\BFB23436.D\8260_23.rslt\spectra.d
Injection Date: 08-Aug-2023 11:43:30
Spectrum: Tune Spec :Average 106-108(3.83-3.85) Bgrd 101(3.77)
Base Peak: 95.10
Minimum % Base Peak: 0
Number of Points: 107

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	4107	64.00	1244	96.00	26248	140.00	221
37.00	24168	65.00	199	97.00	700	141.00	3713
38.00	21760	67.00	1029	103.00	144	142.00	475
39.00	8526	68.00	36968	104.00	1583	143.00	3885
40.00	245	69.00	37656	105.00	520	144.00	273
41.00	129	70.00	2994	106.00	1386	145.00	315
42.00	196	71.00	168	107.00	361	146.00	495
43.00	250	72.00	1811	110.00	188	147.00	301
44.00	2698	73.00	16287	111.00	309	148.00	803
45.00	4390	74.00	62808	112.00	215	149.00	190
46.00	410	75.00	190400	113.00	294	150.00	369
47.00	6109	76.00	16448	115.00	334	152.00	169
48.00	3026	77.00	2069	116.00	1329	153.00	288
49.00	20696	78.00	1287	117.00	2021	154.00	146
50.00	97144	79.00	8944	118.00	1293	155.00	854
51.00	30320	80.00	2676	119.00	1827	156.00	55
52.00	1277	81.00	9045	123.00	51	157.00	615
53.00	64	82.00	1995	124.00	259	159.00	405
55.00	1147	83.00	279	126.00	108	161.00	446
56.00	6472	86.00	403	127.00	62	171.00	76
57.00	12508	87.00	13700	128.00	1376	172.00	349
58.00	534	88.00	12998	129.00	620	174.00	286464
59.00	50	91.00	1199	130.00	1283	175.00	21064
60.00	3993	92.00	10528	131.00	493	176.00	274560
61.00	19712	93.00	15393	135.00	630	177.00	17896
62.00	18904	94.00	44360	137.00	635	178.00	514
63.00	14499	95.00	383360	139.00	127		

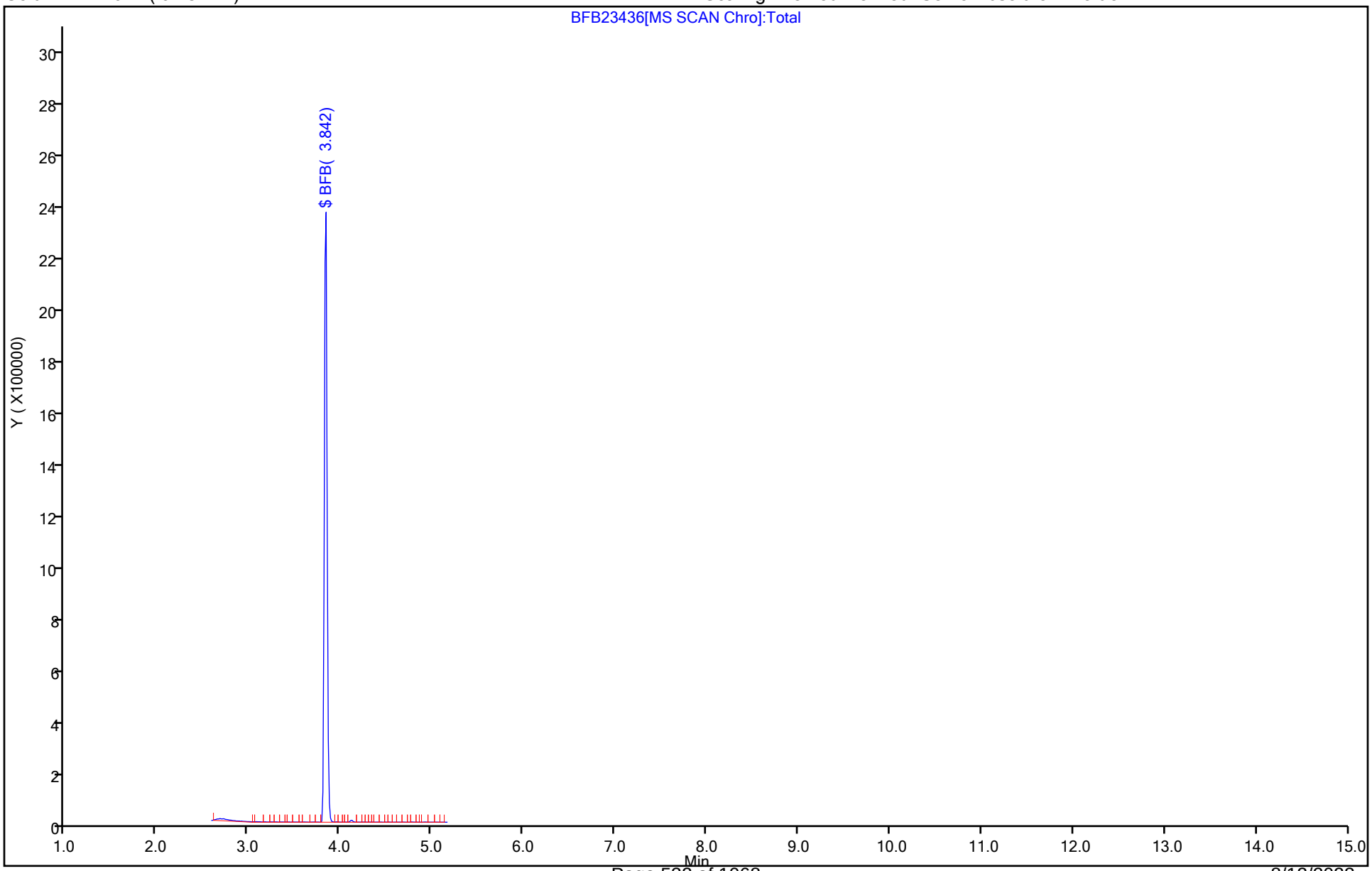
Report Date: 09-Aug-2023 09:50:54 Chrom Revision: 2.3 03-Aug-2023 16:11:04

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A3UX23\20230808-132221.b\BFB23436.D

Injection Date:	08-Aug-2023 11:43:30	Instrument ID:	A3UX23	Operator ID:	
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	28
Method:	8260_23	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 240-189273-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-583235/7

Matrix: Water | Lab File ID: 236504.D

Analysis Method: 8260D | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/08/2023 15:18

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

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

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

Analysis Batch No.: 583235 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
107-02-8	Acrolein	10	U	10	2.1
110-57-6	trans-1,4-Dichloro-2-butene	10	U	10	1.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	104		78-122
1868-53-7	Dibromofluoromethane (Surr)	104		73-120
460-00-4	4-Bromofluorobenzene (Surr)	99		56-136
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		62-137

Eurofins Cleveland
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX23\20230808-132221.b\236504.D
Lims ID: mb
Client ID:
Sample Type: MB
Inject. Date: 08-Aug-2023 15:18:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0132221-007
Operator ID: Instrument ID: A3UX23

Method: \\chromfs\Canton\ChromData\A3UX23\20230808-132221.b\8260_23.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Aug-2023 09:41:40 Calib Date: 04-Aug-2023 19:09:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\236436.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1681

First Level Reviewer: PHN3 Date: 08-Aug-2023 16:30:44

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.591	6.591	0.000	98	934931	25.0	25.0	
* 2 Chlorobenzene-d5	117	9.738	9.726	0.012	90	689248	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	12.058	12.058	0.000	98	338928	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.810	5.810	0.000	92	213588	25.0	26.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.188	6.188	0.000	97	327542	25.0	27.6	
$ 6 Toluene-d8 (Surr)	98	8.283	8.283	0.000	96	873233	25.0	26.0	
$ 7 4-Bromofluorobenzene (Surr)	95	10.910	10.910	0.000	85	332537	25.0	24.8	
9 Dichlorodifluoromethane	85		1.266					ND	
10 Chloromethane	50		1.432					ND	
11 Vinyl chloride	62		1.526					ND	
12 Butadiene	54		1.550					ND	
13 Bromomethane	94		1.834					ND	
14 Chloroethane	64		1.917					ND	
15 Dichlorofluoromethane	67		2.130					ND	
16 Trichlorofluoromethane	101		2.177					ND	
17 Ethyl ether	59		2.473					ND	
25 Acetonitrile	41		2.577					ND	
18 Acrolein	56		2.603					ND	
19 1,1-Dichloroethene	96		2.698					ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		2.745					ND	
21 Acetone	58		2.792					ND	7
23 Iodomethane	142		2.875					ND	
24 Carbon disulfide	76	2.934	2.934	0.000	99	10050		0.4055	
26 3-Chloro-1-propene	41		3.147					ND	
27 Methyl acetate	43		3.218					ND	
28 Methylene Chloride	84		3.313					ND	7
29 2-Methyl-2-propanol	59		3.597					ND	
30 Acrylonitrile	53	3.680	3.680	0.000	76	913		0.1443	
32 trans-1,2-Dichloroethene	96	3.704	3.704	0.000	93	993		0.1001	
37 2-Chloro-1,3-butadiene	53		3.725					ND	
31 Methyl tert-butyl ether	73		3.763					ND	
36 Isopropyl ether	87		3.808					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 Hexane	57		4.153					ND	7
34 1,1-Dichloroethane	63		4.354					ND	
38 Tert-butyl ethyl ether	59		4.376					ND	
35 Vinyl acetate	43		4.496					ND	
42 Propionitrile	54		4.648					ND	
43 Ethyl acetate	43		4.731					ND	
44 Methacrylonitrile	41		4.849					ND	
41 2,2-Dichloropropane	97		5.171					ND	
39 cis-1,2-Dichloroethene	96		5.183					ND	7
40 2-Butanone (MEK)	72		5.254					ND	
45 Chlorobromomethane	128		5.478					ND	
46 Tetrahydrofuran	42	5.609	5.585	0.024	47	1619		0.2741	
47 Chloroform	83		5.609					ND	
48 1,1,1-Trichloroethane	97		5.810					ND	
55 Tert-amyl methyl ether	73		5.855					ND	
49 Cyclohexane	56		5.857					ND	
51 Carbon tetrachloride	117		5.999					ND	
50 1,1-Dichloropropene	75		6.011					ND	7
54 Benzene	78		6.248					ND	
53 1,2-Dichloroethane	62		6.283					ND	7
52 Isobutyl alcohol	41		6.295					ND	
57 n-Butanol	56		6.529					ND	
56 n-Heptane	100		6.614					ND	
59 Ethyl acrylate	55		6.636					ND	
62 Methyl methacrylate	41		6.872					ND	
58 Trichloroethene	130		6.993					ND	7
60 Methylcyclohexane	83		7.194					ND	7
61 1,2-Dichloropropane	63		7.230					ND	
66 2-Nitropropane	41		7.239					ND	
63 Dibromomethane	93		7.348					ND	
64 1,4-Dioxane	88		7.419					ND	
65 Dichlorobromomethane	83		7.537					ND	
67 2-Chloroethyl vinyl ether	63		7.892					ND	
68 cis-1,3-Dichloropropene	75		8.011					ND	
79 Tetrahydrothiophene	60		8.042					ND	
69 4-Methyl-2-pentanone (MIBK)	43		8.212					ND	
70 Toluene	91		8.354					ND	7
71 trans-1,3-Dichloropropene	75		8.591					ND	
77 n-Butyl acetate	43		8.695					ND	
72 Ethyl methacrylate	69		8.721					ND	
73 1,1,2-Trichloroethane	97		8.768					ND	
75 Tetrachloroethene	164		8.910					ND	
74 1,3-Dichloropropane	76		8.934					ND	
76 2-Hexanone	43		9.052					ND	
78 Chlorodibromomethane	129		9.158					ND	
81 1-Chlorohexane	91		9.227					ND	
80 Ethylene Dibromide	107		9.253					ND	
90 1,4-Dichlorobutane	55		9.651					ND	
82 Chlorobenzene	112		9.762					ND	7
83 1,1,1,2-Tetrachloroethane	131		9.845					ND	
84 Ethylbenzene	106		9.880					ND	7
85 m-Xylene & p-Xylene	106		9.999					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
91 Cyclohexanone	55		10.328					ND	
86 o-Xylene	106		10.389					ND	
87 Styrene	104		10.401					ND	7
88 Bromoform	173		10.578					ND	
89 Isopropylbenzene	105		10.756					ND	
93 Bromobenzene	156		11.052					ND	
92 1,1,2,2-Tetrachloroethane	83		11.052					ND	
95 1,2,3-Trichloropropane	110		11.099					ND	
94 trans-1,4-Dichloro-2-butene	53		11.111					ND	
103 Pentachloroethane	167		11.144					ND	
96 N-Propylbenzene	120		11.170					ND	7
97 2-Chlorotoluene	126		11.253					ND	
99 1,3,5-Trimethylbenzene	105		11.348					ND	
100 4-Chlorotoluene	126		11.359					ND	
109 1,2,3-Trimethylbenzene	105		11.594					ND	
102 tert-Butylbenzene	119		11.667					ND	
110 Benzyl chloride	126		11.677					ND	
104 1,2,4-Trimethylbenzene	105		11.714					ND	
105 sec-Butylbenzene	105		11.892					ND	
106 1,3-Dichlorobenzene	146		11.987					ND	7
107 4-Isopropyltoluene	119		12.034					ND	
108 1,4-Dichlorobenzene	146		12.081					ND	7
111 n-Butylbenzene	91		12.436					ND	7
112 1,2-Dichlorobenzene	146		12.448					ND	7
114 1,3,5-Trichlorobenzene	180		12.884					ND	
113 1,2-Dibromo-3-Chloropropane	157		13.217					ND	
115 1,2,4-Trichlorobenzene	180	14.046	14.045	0.001	86	1124		0.1007	
116 Hexachlorobutadiene	225		14.235					ND	
117 Naphthalene	128		14.282					ND	7
118 1,2,3-Trichlorobenzene	180		14.531					ND	7
119 2-Methylnaphthalene	142		14.848					ND	
164 2-Ethylhexyl acrylate	1		0.000					ND	
165 Methyl acrylate	1		0.000					ND	
166 n-Butyl acrylate	1		0.000					ND	
167 isobutylene	1		0.000					ND	
126 Butyl Methacrylate TIC	1		0.520					ND	
S 134 Trihalomethanes, Total	1		0.520					ND	
S 158 Total BTEX	1		0.520					ND	
S 131 1,2-Dichloroethene, Total	96				0			0.1001	
S 132 1,3-Dichloropropene, Total	75		7.280					ND	
S 133 Xylenes, Total	106		17.050					ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm40ml_vials_00024	Amount Added:	0.00	Units:	Run Reagent
vm125UX21_IS_00050	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00237	Amount Added:	0.00	Units:	Run Reagent
vm125UX21_SS_00008	Amount Added:	1.00	Units: uL	Run Reagent

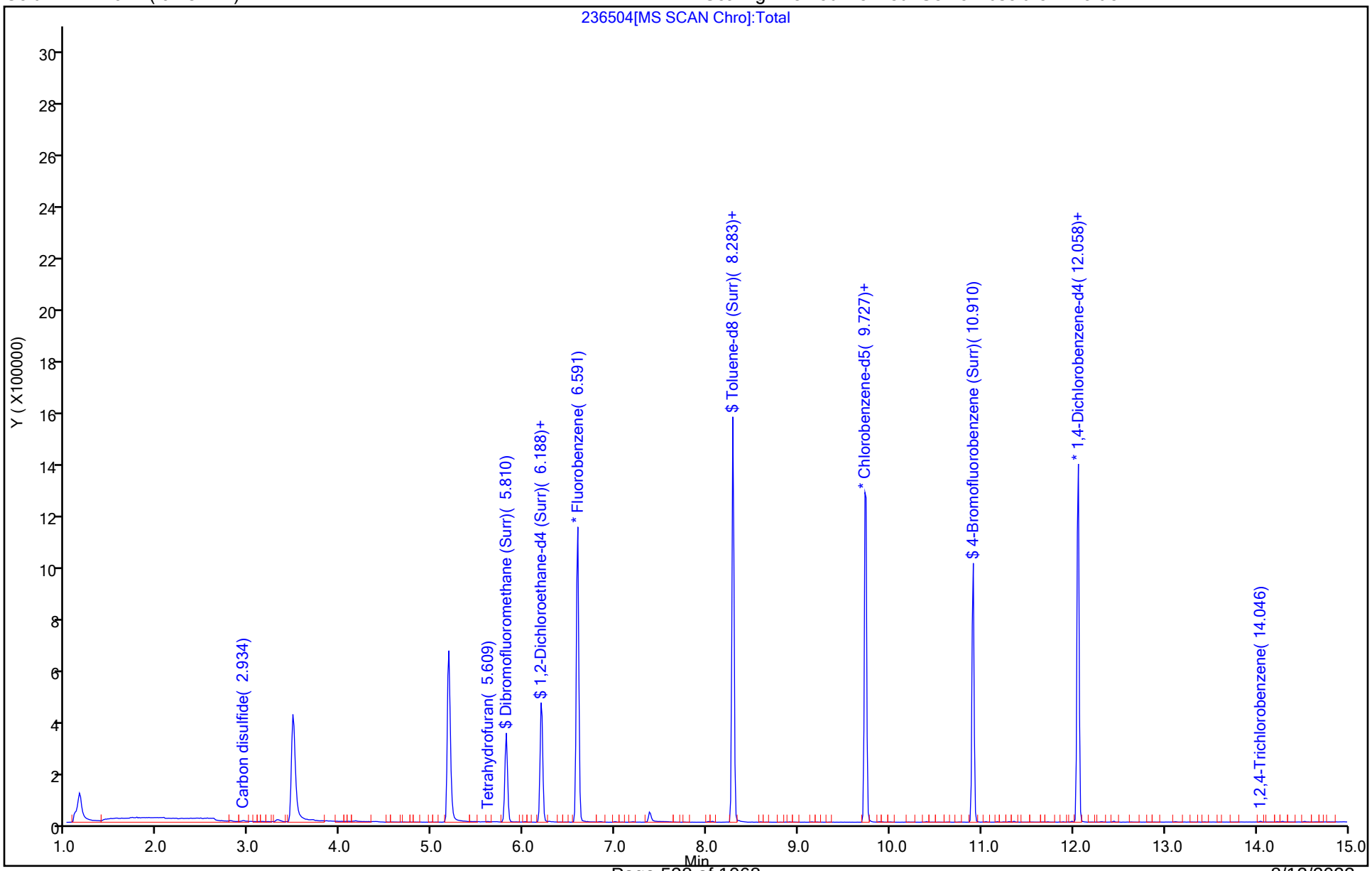
Report Date: 09-Aug-2023 09:50:32 Chrom Revision: 2.3 03-Aug-2023 16:11:04

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A3UX23\20230808-132221.b\236504.D

Injection Date:	08-Aug-2023 15:18:30	Instrument ID:	A3UX23	Operator ID:	
Lims ID:	mb			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8260_23	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Cleveland
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX23\20230808-132221.b\236504.D
Lims ID: mb
Client ID:
Sample Type: MB
Inject. Date: 08-Aug-2023 15:18:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0132221-007
Operator ID: Instrument ID: A3UX23

Method: \\chromfs\Canton\ChromData\A3UX23\20230808-132221.b\8260_23.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Aug-2023 09:41:40 Calib Date: 04-Aug-2023 19:09:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\236436.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1681

First Level Reviewer: PHN3 Date: 08-Aug-2023 16:30:44

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	25.0	26.0	104.05
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	27.6	110.22
$ 6 Toluene-d8 (Surr)	25.0	26.0	104.02
$ 7 4-Bromofluorobenzene (Surr)	25.0	24.8	99.02

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 240-189273-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-583235/4

Matrix: Water | Lab File ID: 236501.D

Analysis Method: 8260D | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/08/2023 14:03

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

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

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

Analysis Batch No.: 583235 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
107-02-8	Acrolein	192		10	2.1
110-57-6	trans-1,4-Dichloro-2-butene	11.4		10	1.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	106		78-122
1868-53-7	Dibromofluoromethane (Surr)	106		73-120
460-00-4	4-Bromofluorobenzene (Surr)	103		56-136
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		62-137

Eurofins Cleveland
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX23\20230808-132221.b\236501.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 08-Aug-2023 14:03:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0132221-004
Operator ID: Instrument ID: A3UX23

Method: \\chromfs\Canton\ChromData\A3UX23\20230808-132221.b\8260_23.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Aug-2023 09:50:51 Calib Date: 04-Aug-2023 19:09:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\236436.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1681

First Level Reviewer: PHN3 Date: 08-Aug-2023 16:13:02

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.591	6.591	0.000	98	1012757	25.0	25.0	
* 2 Chlorobenzene-d5	117	9.738	9.726	0.012	88	752940	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	12.058	12.058	0.000	98	381341	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.810	5.810	0.000	76	235716	25.0	26.5	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.188	6.188	0.000	97	348372	25.0	27.1	
$ 6 Toluene-d8 (Surr)	98	8.283	8.283	0.000	95	972185	25.0	26.5	
$ 7 4-Bromofluorobenzene (Surr)	95	10.910	10.910	0.000	85	376899	25.0	25.7	
9 Dichlorodifluoromethane	85	1.266	1.266	0.000	99	149971	12.5	11.4	
10 Chloromethane	50	1.432	1.432	0.000	100	224469	12.5	11.8	
11 Vinyl chloride	62	1.526	1.526	0.000	98	155053	12.5	11.7	
12 Butadiene	54	1.550	1.550	0.000	97	271102	12.5	15.4	
13 Bromomethane	94	1.834	1.834	0.000	92	81264	12.5	11.2	
14 Chloroethane	64	1.917	1.917	0.000	97	107316	12.5	13.3	
15 Dichlorofluoromethane	67	2.130	2.130	0.000	99	240800	12.5	15.9	
16 Trichlorofluoromethane	101	2.177	2.177	0.000	99	180164	12.5	13.7	
17 Ethyl ether	59	2.473	2.473	0.000	98	283968	25.0	25.7	
18 Acrolein	56	2.591	2.603	-0.012	98	133699	125.0	192.4	
19 1,1-Dichloroethene	96	2.698	2.698	0.000	94	221423	25.0	25.5	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.745	2.745	0.000	94	174671	25.0	24.3	
21 Acetone	58	2.792	2.792	0.000	98	87193	50.0	56.0	
23 Iodomethane	142	2.875	2.875	0.000	99	346651	25.0	25.0	
24 Carbon disulfide	76	2.934	2.934	0.000	99	722601	25.0	26.9	
26 3-Chloro-1-propene	41	3.147	3.147	0.000	87	546543	25.0	21.7	
27 Methyl acetate	43	3.218	3.218	0.000	100	743062	50.0	46.3	
28 Methylene Chloride	84	3.313	3.313	0.000	95	263196	25.0	25.5	
29 2-Methyl-2-propanol	59	3.597	3.597	0.000	91	370323	250.0	257.4	
30 Acrylonitrile	53	3.680	3.680	0.000	98	1730768	250.0	252.5	
32 trans-1,2-Dichloroethene	96	3.692	3.704	-0.012	93	259166	25.0	24.1	
31 Methyl tert-butyl ether	73	3.751	3.763	-0.012	96	761461	25.0	23.6	
33 Hexane	57	4.153	4.153	0.000	96	426545	25.0	25.4	
34 1,1-Dichloroethane	63	4.354	4.354	0.000	97	531228	25.0	25.0	
35 Vinyl acetate	43	4.496	4.496	0.000	97	745310	25.0	26.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 2,2-Dichloropropane	97	5.171	5.171	0.000	90	59889	25.0	22.1	
39 cis-1,2-Dichloroethene	96	5.183	5.183	0.000	86	284197	25.0	23.8	
40 2-Butanone (MEK)	72	5.254	5.254	0.000	98	91882	50.0	49.6	
45 Chlorobromomethane	128	5.478	5.478	0.000	90	128680	25.0	23.4	
46 Tetrahydrofuran	42	5.585	5.585	0.000	91	304646	50.0	47.6	
47 Chloroform	83	5.609	5.609	0.000	99	460895	25.0	24.1	
48 1,1,1-Trichloroethane	97	5.810	5.810	0.000	96	396717	25.0	24.1	
49 Cyclohexane	56	5.857	5.857	0.000	96	558575	25.0	25.9	
51 Carbon tetrachloride	117	5.999	5.999	0.000	96	325396	25.0	22.7	
50 1,1-Dichloropropene	75	6.011	6.011	0.000	90	361232	25.0	25.0	
54 Benzene	78	6.248	6.248	0.000	97	1094718	25.0	25.4	
53 1,2-Dichloroethane	62	6.283	6.283	0.000	97	449429	25.0	24.5	
52 Isobutyl alcohol	41	6.295	6.295	0.000	93	448545	625.0	683.6	
56 n-Heptane	100	6.614	6.614	0.000	98	58487	25.0	26.7	
58 Trichloroethene	130	6.993	6.993	0.000	97	270026	25.0	24.8	
60 Methylcyclohexane	83	7.194	7.194	0.000	97	423198	25.0	25.5	
61 1,2-Dichloropropane	63	7.230	7.230	0.000	94	296654	25.0	25.6	
63 Dibromomethane	93	7.348	7.348	0.000	96	164409	25.0	25.3	
64 1,4-Dioxane	88	7.431	7.419	0.012	97	58863	500.0	569.5	
65 Dichlorobromomethane	83	7.537	7.537	0.000	97	337579	25.0	24.5	
67 2-Chloroethyl vinyl ether	63	7.892	7.892	0.000	91	209986	25.0	25.4	
68 cis-1,3-Dichloropropene	75	8.011	8.011	0.000	88	380571	25.0	23.3	
69 4-Methyl-2-pentanone (MIBK)	43	8.212	8.212	0.000	99	983882	50.0	53.5	
70 Toluene	91	8.354	8.354	0.000	97	1146678	25.0	24.7	
71 trans-1,3-Dichloropropene	75	8.590	8.591	0.000	97	387934	25.0	25.1	
72 Ethyl methacrylate	69	8.721	8.721	0.000	95	380112	25.0	27.4	
73 1,1,2-Trichloroethane	97	8.768	8.768	0.000	95	239120	25.0	25.2	
75 Tetrachloroethene	164	8.910	8.910	0.000	99	201654	25.0	25.5	
74 1,3-Dichloropropane	76	8.934	8.934	0.000	97	426557	25.0	25.3	
76 2-Hexanone	43	9.052	9.052	0.000	98	690615	50.0	53.9	
78 Chlorodibromomethane	129	9.158	9.158	0.000	90	245165	25.0	25.0	
80 Ethylene Dibromide	107	9.253	9.253	0.000	99	244455	25.0	25.1	
82 Chlorobenzene	112	9.762	9.762	0.000	94	713989	25.0	25.0	
83 1,1,1,2-Tetrachloroethane	131	9.845	9.845	0.000	93	245027	25.0	24.8	
84 Ethylbenzene	106	9.880	9.880	0.000	99	398838	25.0	25.1	
85 m-Xylene & p-Xylene	106	9.999	9.999	0.000	97	484402	25.0	25.4	
86 o-Xylene	106	10.389	10.389	0.000	98	477457	25.0	24.9	
87 Styrene	104	10.401	10.401	0.000	94	773487	25.0	26.9	
88 Bromoform	173	10.578	10.578	0.000	96	149591	25.0	25.3	
89 Isopropylbenzene	105	10.768	10.756	0.012	97	1242172	25.0	26.2	
93 Bromobenzene	156	11.052	11.052	0.000	97	280077	25.0	23.7	
92 1,1,2,2-Tetrachloroethane	83	11.064	11.052	0.012	95	342033	25.0	24.0	
95 1,2,3-Trichloropropane	110	11.099	11.099	0.000	89	113529	25.0	24.0	
94 trans-1,4-Dichloro-2-butene	53	11.111	11.111	0.000	73	65018	25.0	11.4	
96 N-Propylbenzene	120	11.170	11.170	0.000	99	338309	25.0	24.8	
97 2-Chlorotoluene	126	11.253	11.253	0.000	97	287554	25.0	24.8	
99 1,3,5-Trimethylbenzene	105	11.348	11.348	0.000	94	1036658	25.0	25.3	
100 4-Chlorotoluene	126	11.359	11.359	0.000	99	291432	25.0	24.6	
102 tert-Butylbenzene	119	11.667	11.667	0.000	94	884637	25.0	25.6	
104 1,2,4-Trimethylbenzene	105	11.714	11.714	0.000	98	1058665	25.0	24.9	
105 sec-Butylbenzene	105	11.892	11.892	0.000	95	1248326	25.0	26.0	
106 1,3-Dichlorobenzene	146	11.987	11.987	-0.001	97	548427	25.0	25.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 4-Isopropyltoluene	119	12.034	12.034	0.000	97	1060117	25.0	26.0	
108 1,4-Dichlorobenzene	146	12.081	12.081	0.000	96	562782	25.0	25.3	
111 n-Butylbenzene	91	12.448	12.436	0.012	98	932997	25.0	26.5	
112 1,2-Dichlorobenzene	146	12.448	12.448	0.000	76	544965	25.0	25.7	
113 1,2-Dibromo-3-Chloropropane	157	13.217	13.217	0.000	75	70806	25.0	23.7	
115 1,2,4-Trichlorobenzene	180	14.045	14.045	0.000	94	347833	25.0	27.7	
116 Hexachlorobutadiene	225	14.235	14.235	0.000	96	126478	25.0	30.2	
117 Naphthalene	128	14.282	14.282	0.000	98	1225174	25.0	27.6	
118 1,2,3-Trichlorobenzene	180	14.531	14.531	0.000	95	325050	25.0	27.9	
S 134 Trihalomethanes, Total	1				0		100.0	98.8	
S 158 Total BTEX	1				0		125.0	125.5	
S 133 Xylenes, Total	106				0		50.0	50.4	

QC Flag Legend

Processing Flags

Reagents:

VMFASAW_00475	Amount Added: 20.00	Units: uL	
VMFASGW_00520	Amount Added: 10.00	Units: uL	
VMFASPW_00504	Amount Added: 20.00	Units: uL	
vm40ml_vials_00024	Amount Added: 0.00	Units:	Run Reagent
vm125UX21_IS_00050	Amount Added: 1.00	Units: uL	Run Reagent
vmDist_H2o_00237	Amount Added: 0.00	Units:	Run Reagent
vm125UX21_SS_00008	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 09-Aug-2023 09:50:53 Chrom Revision: 2.3 03-Aug-2023 16:11:04

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A3UX23\20230808-132221.b\236501.D

Injection Date: 08-Aug-2023 14:03:30 Instrument ID: A3UX23 Operator ID:

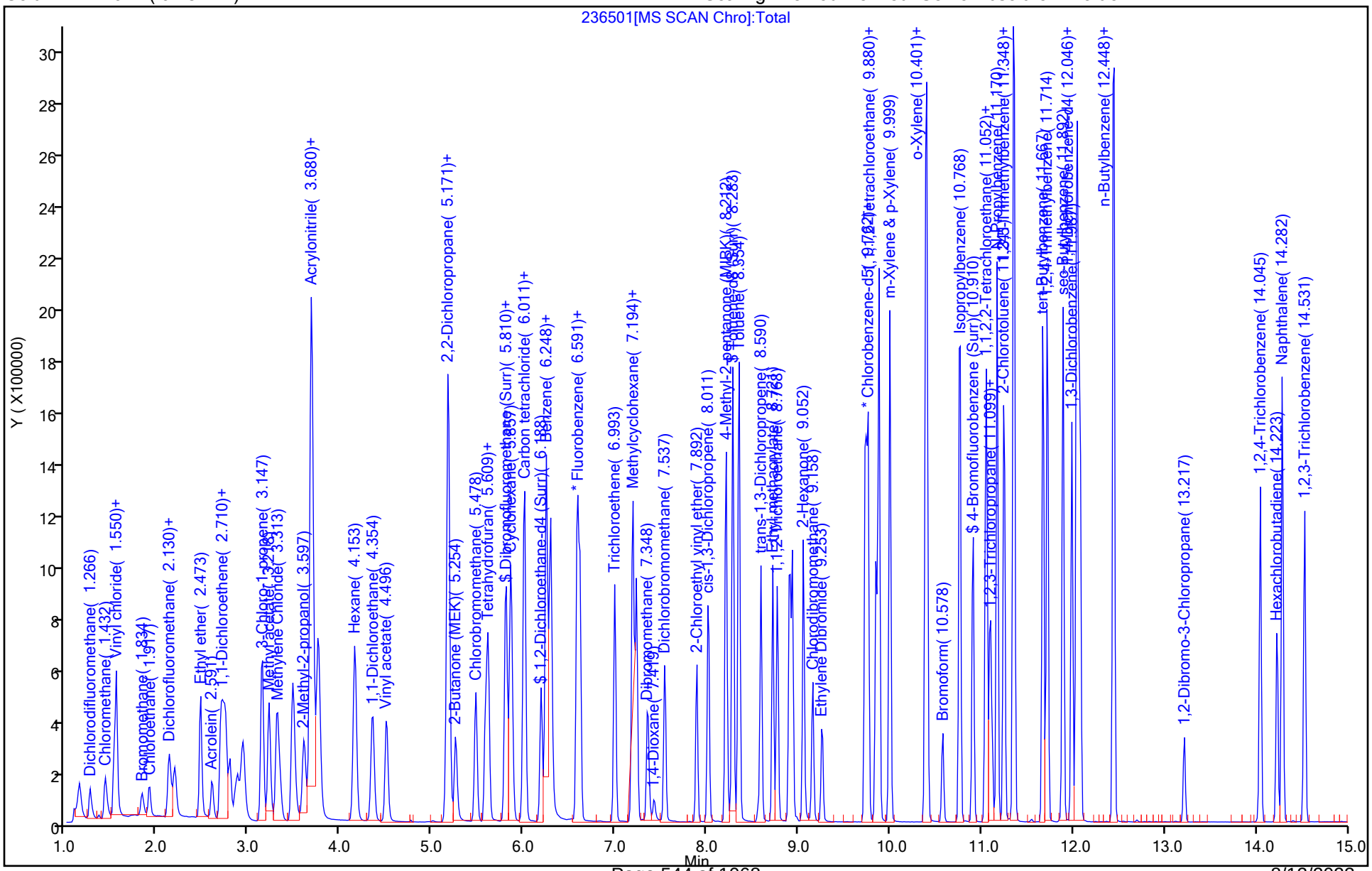
Lims ID: LCS Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 3

Method: 8260_23 Limit Group: MSV 8260C ICAL

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Cleveland
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX23\20230808-132221.b\236501.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 08-Aug-2023 14:03:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0132221-004
Operator ID: Instrument ID: A3UX23

Method: \\chromfs\Canton\ChromData\A3UX23\20230808-132221.b\8260_23.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Aug-2023 09:50:51 Calib Date: 04-Aug-2023 19:09:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\236436.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1681

First Level Reviewer: PHN3 Date: 08-Aug-2023 16:13:02

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	25.0	26.5	106.01
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	27.1	108.22
$ 6 Toluene-d8 (Surr)	25.0	26.5	106.01
$ 7 4-Bromofluorobenzene (Surr)	25.0	25.7	102.73

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 240-189273-1

SDG No.:

Client Sample ID: 16WC1A MS | Lab Sample ID: 240-189273-4 MS

Matrix: Water | Lab File ID: 236521.D

Analysis Method: 8260D | Date Collected: 07/27/2023 09:55

Sample wt/vol: 5(mL) | Date Analyzed: 08/08/2023 22:25

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

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

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

Analysis Batch No.: 583235 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
107-02-8	Acrolein	196		10	2.1
110-57-6	trans-1,4-Dichloro-2-butene	10.3		10	1.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	105		78-122
1868-53-7	Dibromofluoromethane (Surr)	103		73-120
460-00-4	4-Bromofluorobenzene (Surr)	101		56-136
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		62-137

Eurofins Cleveland
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX23\20230808-132221.b\236521.D
Lims ID: 240-189273-E-4 MS
Client ID: 16WC1A
Sample Type: MS
Inject. Date: 08-Aug-2023 22:25:30 ALS Bottle#: 23 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0132221-024
Operator ID: Instrument ID: A3UX23

Method: \\chromfs\Canton\ChromData\A3UX23\20230808-132221.b\8260_23.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Aug-2023 09:41:40 Calib Date: 04-Aug-2023 19:09:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\236436.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1681

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.591	6.591	0.000	98	864461	25.0	25.0	
* 2 Chlorobenzene-d5	117	9.738	9.726	0.012	89	644989	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	12.058	12.058	0.000	98	335656	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.810	5.810	0.000	76	195989	25.0	25.8	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.188	6.188	0.000	97	294590	25.0	26.8	
$ 6 Toluene-d8 (Surr)	98	8.283	8.283	0.000	96	821399	25.0	26.1	
$ 7 4-Bromofluorobenzene (Surr)	95	10.910	10.910	0.000	84	316521	25.0	25.2	
18 Acrolein	56	2.603	2.603	0.000	97	116214	125.0	195.9	
94 trans-1,4-Dichloro-2-butene	53	11.123	11.111	0.012	71	51508	25.0	10.3	

Reagents:

VMFASPW_00504	Amount Added: 20.00	Units: uL	
VMFASAW_00475	Amount Added: 20.00	Units: uL	
VMFASGW_00520	Amount Added: 10.00	Units: uL	
vm40ml_vials_00024	Amount Added: 0.00	Units:	Run Reagent
vm125UX21_IS_00050	Amount Added: 1.00	Units: uL	Run Reagent
vmDist_H2o_00237	Amount Added: 0.00	Units:	Run Reagent
vm125UX21_SS_00008	Amount Added: 1.00	Units: uL	Run Reagent

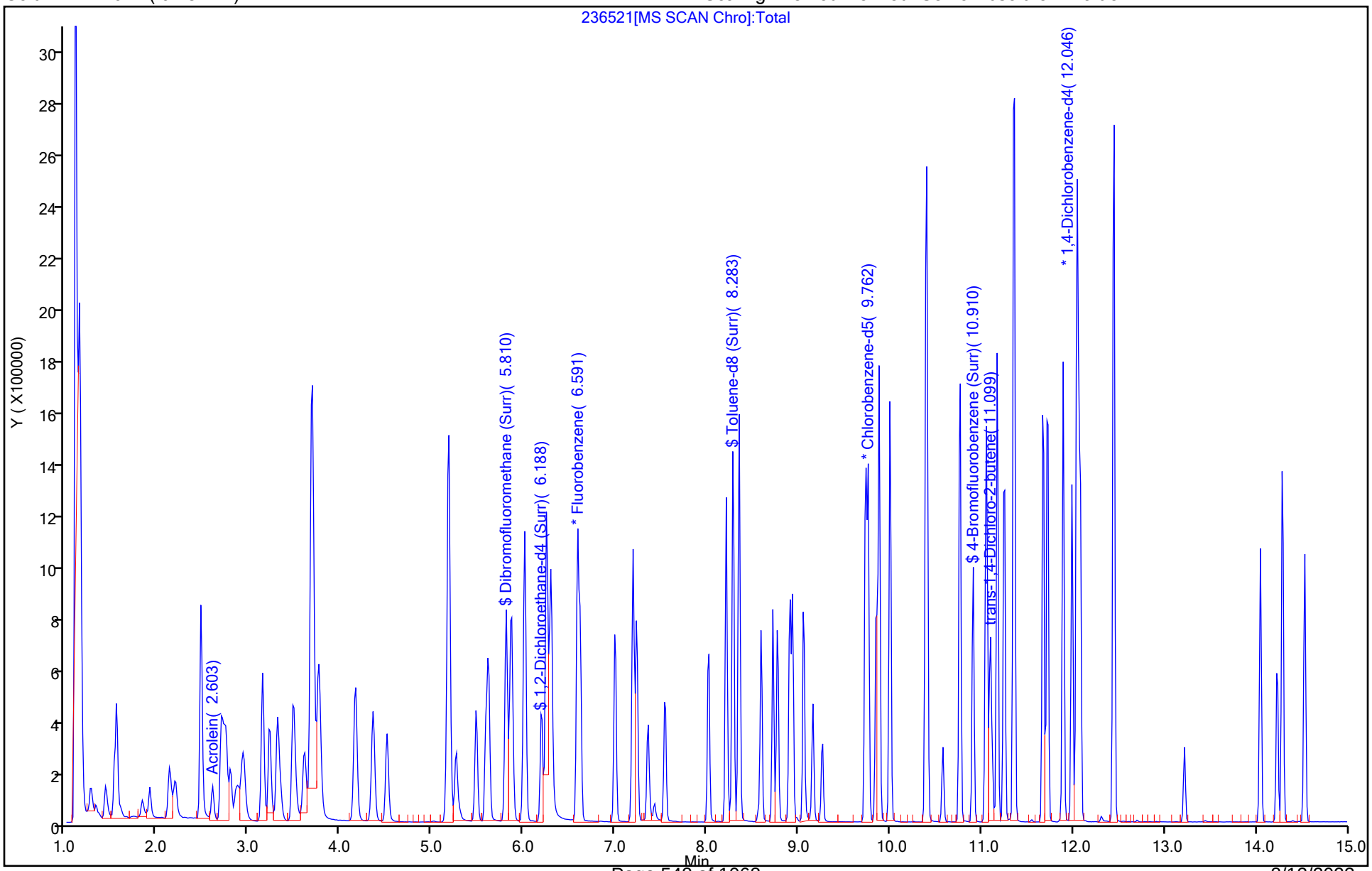
Report Date: 09-Aug-2023 09:50:48 Chrom Revision: 2.3 03-Aug-2023 16:11:04

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A3UX23\20230808-132221.b\236521.D

Injection Date:	08-Aug-2023 22:25:30	Instrument ID:	A3UX23	Operator ID:	
Lims ID:	240-189273-E-4 MS			Worklist Smp#:	24
Client ID:	16WC1A				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	8260_23	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



8/12/2023
10:47 AM

Eurofins Cleveland
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX23\20230808-132221.b\236521.D
Lims ID: 240-189273-E-4 MS
Client ID: 16WC1A
Sample Type: MS
Inject. Date: 08-Aug-2023 22:25:30 ALS Bottle#: 23 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0132221-024
Operator ID: Instrument ID: A3UX23

Method: \\chromfs\Canton\ChromData\A3UX23\20230808-132221.b\8260_23.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Aug-2023 09:41:40 Calib Date: 04-Aug-2023 19:09:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\236436.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1681

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	25.0	25.8	103.26
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	26.8	107.21
$ 6 Toluene-d8 (Surr)	25.0	26.1	104.56
$ 7 4-Bromofluorobenzene (Surr)	25.0	25.2	100.71

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 240-189273-1

SDG No.:

Client Sample ID: 16WC1A MSD | Lab Sample ID: 240-189273-4 MSD

Matrix: Water | Lab File ID: 236522.D

Analysis Method: 8260D | Date Collected: 07/27/2023 09:55

Sample wt/vol: 5(mL) | Date Analyzed: 08/08/2023 22:50

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

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

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

Analysis Batch No.: 583235 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
107-02-8	Acrolein	198		10	2.1
110-57-6	trans-1,4-Dichloro-2-butene	10.4		10	1.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	106		78-122
1868-53-7	Dibromofluoromethane (Surr)	108		73-120
460-00-4	4-Bromofluorobenzene (Surr)	103		56-136
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		62-137

Eurofins Cleveland
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX23\20230808-132221.b\236522.D
Lims ID: 240-189273-H-4 MSD
Client ID: 16WC1A
Sample Type: MSD
Inject. Date: 08-Aug-2023 22:50:30 ALS Bottle#: 24 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0132221-025
Operator ID: Instrument ID: A3UX23

Method: \\chromfs\Canton\ChromData\A3UX23\20230808-132221.b\8260_23.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Aug-2023 09:41:40 Calib Date: 04-Aug-2023 19:09:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\236436.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1681

First Level Reviewer: PHN3 Date: 09-Aug-2023 09:47:13

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.591	6.591	0.000	98	920643	25.0	25.0	
* 2 Chlorobenzene-d5	117	9.738	9.726	0.012	89	687292	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	12.058	12.058	0.000	98	350837	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.810	5.810	0.000	77	217463	25.0	26.9	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.188	6.188	0.000	97	320531	25.0	27.4	
$ 6 Toluene-d8 (Surr)	98	8.283	8.283	0.000	95	890246	25.0	26.6	
$ 7 4-Bromofluorobenzene (Surr)	95	10.910	10.910	0.000	85	345277	25.0	25.8	
18 Acrolein	56	2.603	2.603	0.000	99	124854	125.0	197.7	
94 trans-1,4-Dichloro-2-butene	53	11.123	11.111	0.012	68	54498	25.0	10.4	

QC Flag Legend

Processing Flags

Reagents:

VMFASAW_00475	Amount Added: 20.00	Units: uL	
VMFASPW_00504	Amount Added: 20.00	Units: uL	
VMFASGW_00520	Amount Added: 10.00	Units: uL	
vm40ml_vials_00024	Amount Added: 0.00	Units:	Run Reagent
vm125UX21_IS_00050	Amount Added: 1.00	Units: uL	Run Reagent
vmDist_H2o_00237	Amount Added: 0.00	Units:	Run Reagent
vm125UX21_SS_00008	Amount Added: 1.00	Units: uL	Run Reagent

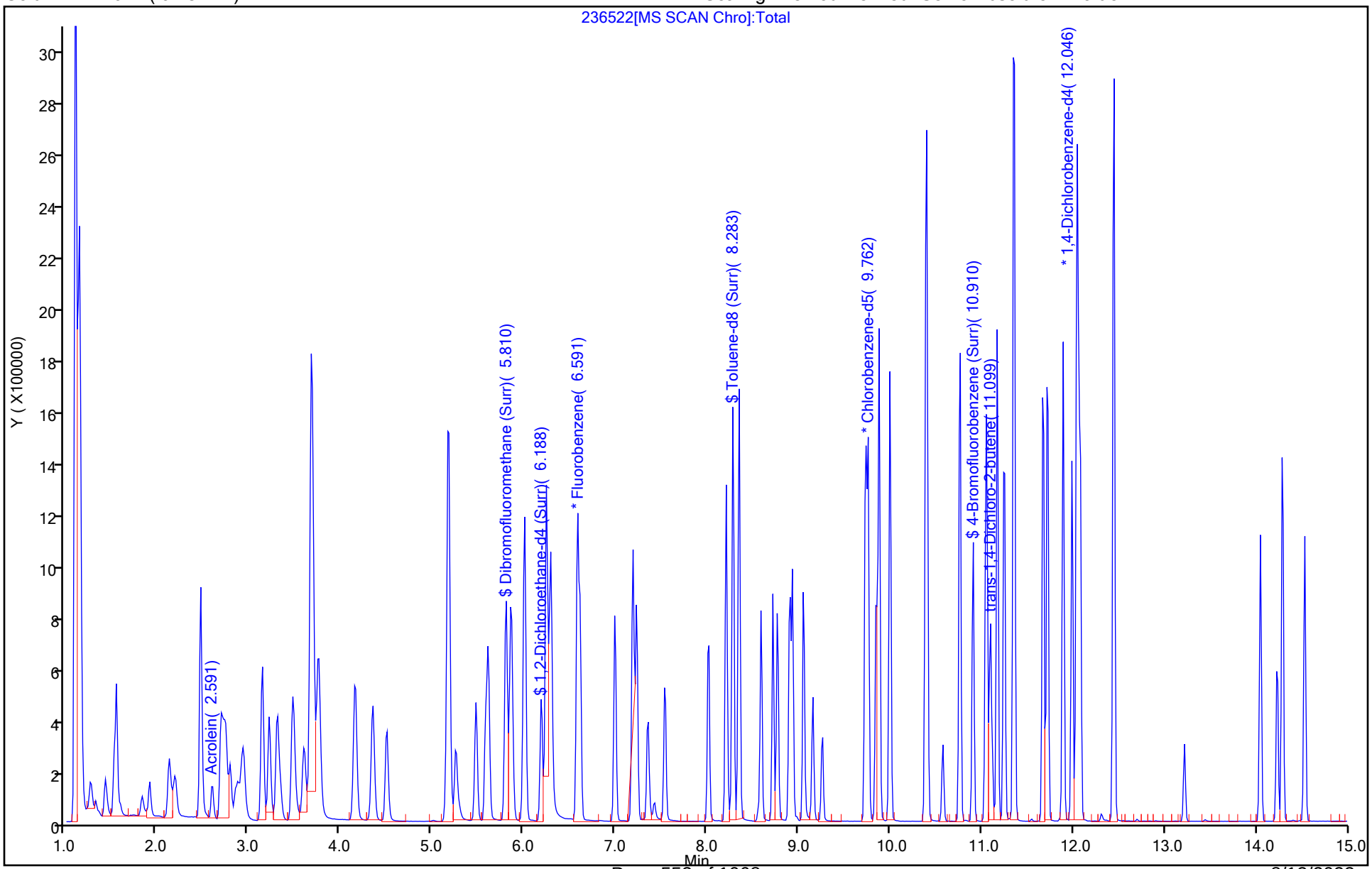
Report Date: 09-Aug-2023 09:50:49 Chrom Revision: 2.3 03-Aug-2023 16:11:04

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A3UX23\20230808-132221.b\236522.D

Injection Date:	08-Aug-2023 22:50:30	Instrument ID:	A3UX23	Operator ID:	
Lims ID:	240-189273-H-4 MSD			Worklist Smp#:	25
Client ID:	16WC1A				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	8260_23	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Cleveland
Recovery Report

Data File:	\\chromfs\Canton\ChromData\A3UX23\20230808-132221.b\236522.D				
Lims ID:	240-189273-H-4 MSD				
Client ID:	16WC1A				
Sample Type:	MSD				
Inject. Date:	08-Aug-2023 22:50:30	ALS Bottle#:	24	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	240-0132221-025				
Operator ID:		Instrument ID:	A3UX23		
Method:	\\chromfs\Canton\ChromData\A3UX23\20230808-132221.b\8260_23.m				
Limit Group:	MSV 8260C ICAL				
Last Update:	09-Aug-2023 09:41:40	Calib Date:	04-Aug-2023 19:09:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Canton\ChromData\A3UX23\20230804-132136.b\236436.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1681				

First Level Reviewer: PHN3 Date: 09-Aug-2023 09:47:13

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	25.0	26.9	107.59
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	27.4	109.53
$ 6 Toluene-d8 (Surr)	25.0	26.6	106.35
$ 7 4-Bromofluorobenzene (Surr)	25.0	25.8	103.10

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Instrument ID: A3UX23 Start Date: 08/04/2023 14:56

Analysis Batch Number: 582961 End Date: 08/04/2023 21:40

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-582961/1		08/04/2023 14:56	1	BFB23433.D	DB-624 0.18(mm)
IC 240-582961/3		08/04/2023 15:49	1	236428.D	DB-624 0.18(mm)
IC 240-582961/4		08/04/2023 16:14	1	236429.D	DB-624 0.18(mm)
IC 240-582961/5		08/04/2023 16:39	1	236430.D	DB-624 0.18(mm)
IC 240-582961/6		08/04/2023 17:04	1	236431.D	DB-624 0.18(mm)
IC 240-582961/7		08/04/2023 17:29	1	236432.D	DB-624 0.18(mm)
ICIS 240-582961/8		08/04/2023 17:54	1	236433.D	DB-624 0.18(mm)
IC 240-582961/9		08/04/2023 18:19	1	236434.D	DB-624 0.18(mm)
IC 240-582961/10		08/04/2023 18:44	1	236435.D	DB-624 0.18(mm)
IC 240-582961/11		08/04/2023 19:09	1	236436.D	DB-624 0.18(mm)
ICV 240-582961/13		08/04/2023 20:00	1	236438.D	DB-624 0.18(mm)
ZZZZZ		08/04/2023 20:25	1		DB-624 0.18(mm)
ZZZZZ		08/04/2023 20:50	1		DB-624 0.18(mm)
ZZZZZ		08/04/2023 21:15	1		DB-624 0.18(mm)
ZZZZZ		08/04/2023 21:40	1		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Instrument ID: A3UX23 Start Date: 08/08/2023 11:43

Analysis Batch Number: 583235 End Date: 08/08/2023 23:15

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-583235/1		08/08/2023 11:43	1	BFB23436.D	DB-624 0.18(mm)
CCVIS 240-583235/3		08/08/2023 13:38	1	236500.D	DB-624 0.18(mm)
LCS 240-583235/4		08/08/2023 14:03	1	236501.D	DB-624 0.18(mm)
MB 240-583235/7		08/08/2023 15:18	1	236504.D	DB-624 0.18(mm)
ZZZZZ		08/08/2023 15:43	1		DB-624 0.18(mm)
ZZZZZ		08/08/2023 16:08	1		DB-624 0.18(mm)
ZZZZZ		08/08/2023 16:33	1		DB-624 0.18(mm)
ZZZZZ		08/08/2023 16:59	1		DB-624 0.18(mm)
ZZZZZ		08/08/2023 17:24	1		DB-624 0.18(mm)
ZZZZZ		08/08/2023 17:49	1		DB-624 0.18(mm)
ZZZZZ		08/08/2023 18:14	1		DB-624 0.18(mm)
ZZZZZ		08/08/2023 18:39	1		DB-624 0.18(mm)
ZZZZZ		08/08/2023 19:04	1		DB-624 0.18(mm)
ZZZZZ		08/08/2023 19:29	1		DB-624 0.18(mm)
240-189273-1	16C1	08/08/2023 19:54	1	236515.D	DB-624 0.18(mm)
240-189273-2	16MW8	08/08/2023 20:19	1	236516.D	DB-624 0.18(mm)
240-189273-3	16MW9	08/08/2023 20:44	1	236517.D	DB-624 0.18(mm)
240-189273-4	16WC1A	08/08/2023 21:09	1	236518.D	DB-624 0.18(mm)
240-189273-5	16WDUP	08/08/2023 21:35	1	236519.D	DB-624 0.18(mm)
240-189273-6	16WC1B	08/08/2023 22:00	1	236520.D	DB-624 0.18(mm)
240-189273-4 MS	16WC1A MS	08/08/2023 22:25	1	236521.D	DB-624 0.18(mm)
240-189273-4 MSD	16WC1A MSD	08/08/2023 22:50	1	236522.D	DB-624 0.18(mm)
ZZZZZ		08/08/2023 23:15	1		DB-624 0.18(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Batch Number: 582961 Batch Start Date: 08/04/23 14:56 Batch Analyst: Macenczak, Steven

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	vm125UX21_IS 00050	vm125UX21_SS 00007	VMAROLISTDW 00495	vmbfb 00032
BFB 240-582961/1		8260D		5 mL	5 mL				1 uL
IC 240-582961/3		8260D		5 mL	5 mL	1 uL	1 uL	0.4 uL	
IC 240-582961/4		8260D		5 mL	5 mL	1 uL	1 uL	0.8 uL	
IC 240-582961/5		8260D		5 mL	5 mL	1 uL	1 uL	2 uL	
IC 240-582961/6		8260D		5 mL	5 mL	1 uL	1 uL	5 uL	
IC 240-582961/7		8260D		5 mL	5 mL	1 uL	1 uL	10 uL	
ICIS 240-582961/8		8260D		5 mL	5 mL	1 uL	1 uL	20 uL	
IC 240-582961/9		8260D		5 mL	5 mL	1 uL	1 uL	30 uL	
IC 240-582961/10		8260D		5 mL	5 mL	1 uL	1 uL	40 uL	
IC 240-582961/11		8260D		5 mL	5 mL	1 uL	1 uL	50 uL	
ICV 240-582961/13		8260D		5 mL	5 mL	1 uL	1 uL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	VMFASAW 00474	VMFASGW 00520	VMFASPW 00503	VMRGAS 00487	VMRPRIMW 00542	
BFB 240-582961/1		8260D							
IC 240-582961/3		8260D					0.4 uL	0.4 uL	
IC 240-582961/4		8260D					0.8 uL	0.8 uL	
IC 240-582961/5		8260D					2 uL	2 uL	
IC 240-582961/6		8260D					5 uL	5 uL	
IC 240-582961/7		8260D					10 uL	10 uL	
ICIS 240-582961/8		8260D					20 uL	20 uL	
IC 240-582961/9		8260D					30 uL	30 uL	
IC 240-582961/10		8260D					40 uL	40 uL	
IC 240-582961/11		8260D					50 uL	50 uL	
ICV 240-582961/13		8260D		20 uL	10 uL	20 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 Cleveland Job No.: 240-189273-1

SDG No.:

Batch Number: 582961 Batch Start Date: 08/04/23 14:56 Batch Analyst: Macenczak, Steven

Batch Method: 8260D 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 VOA BATCH WORKSHEET

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Batch Number: 583235 Batch Start Date: 08/08/23 11:43 Batch Analyst: Garrett, Christopher D

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	vm125UX21_IS 00050	vm125UX21_SS 00008	VMAROLISTDW 00496
BFB 240-583235/1		8260D		5 mL	5 mL				
CCVIS 240-583235/3		8260D		5 mL	5 mL		1 uL	1 uL	20 uL
LCS 240-583235/4		8260D		5 mL	5 mL		1 uL	1 uL	
MB 240-583235/7		8260D		5 mL	5 mL		1 uL	1 uL	
240-189273-B-1	16C1	8260D	T	5 mL	5 mL	<2 SU	1 uL	1 uL	
240-189273-B-2	16MW8	8260D	T	5 mL	5 mL	<2 SU	1 uL	1 uL	
240-189273-B-3	16MW9	8260D	T	5 mL	5 mL	<2 SU	1 uL	1 uL	
240-189273-B-4	16WC1A	8260D	T	5 mL	5 mL	<2 SU	1 uL	1 uL	
240-189273-B-5	16WDUP	8260D	T	5 mL	5 mL	<2 SU	1 uL	1 uL	
240-189273-B-6	16WC1B	8260D	T	5 mL	5 mL	<2 SU	1 uL	1 uL	
240-189273-E-4 MS	16WC1A	8260D	T	5 mL	5 mL	<2 SU	1 uL	1 uL	
240-189273-H-4 MSD	16WC1A	8260D	T	5 mL	5 mL	<2 SU	1 uL	1 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00032	VMFASAW 00475	VMFASGW 00520	VMFASPW 00504	VMRGAS 00488	VMRPRIMW 00543
BFB 240-583235/1		8260D		1 uL					
CCVIS 240-583235/3		8260D						10 uL	20 uL
LCS 240-583235/4		8260D			20 uL	10 uL	20 uL		
MB 240-583235/7		8260D							
240-189273-B-1	16C1	8260D	T						
240-189273-B-2	16MW8	8260D	T						
240-189273-B-3	16MW9	8260D	T						
240-189273-B-4	16WC1A	8260D	T						
240-189273-B-5	16WDUP	8260D	T						
240-189273-B-6	16WC1B	8260D	T						
240-189273-E-4 MS	16WC1A	8260D	T		20 uL	10 uL	20 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 Cleveland Job No.: 240-189273-1

SDG No.:

Batch Number: 583235 Batch Start Date: 08/08/23 11:43 Batch Analyst: Garrett, Christopher D

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00032	VMFASAW 00475	VMFASGW 00520	VMFASPW 00504	VMRGAS 00488	VMRPRIMW 00543
240-189273-H-4 MSD	16WC1A	8260D	T		20 uL	10 uL	20 uL		

Batch Notes	
pH Indicator ID	HC210330

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.

8270E

Semivolatile Organic Compounds (GC/MS)

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): RXI-5SILMS/ ID: 0.25(mm)

Client Sample ID	Lab Sample ID	2FP #	PHL #	NBZ #	FBP #	TBP #	TPHL #
16C1	240-189273-1	82	78	76	70	60	93
16MW8	240-189273-2	86	61	81	75	60	94
16MW9	240-189273-3	91	81	80	70	64	95
16WC1A	240-189273-4	47	60	80	73	44	93
16WDUP	240-189273-5	27	53	85	78	23	95
16WC1B	240-189273-6	75	48	78	73	55	84
	MB 240-582476/10-A	106	75	87	104	70	109
	LCS 240-582476/11-A	140 S1+	75	89	83	93	87
	LCS 240-582476/12-A	79	34	83	81	80	90
16WC1A MS	240-189273-4 MS	91	75	83	75	71	80
16WC1A MSD	240-189273-4 MSD	131 S1+	93	87	79	89	84

	QC LIMITS
2FP = 2-Fluorophenol (Surr)	12-120
PHL = Phenol-d5 (Surr)	18-120
NBZ = Nitrobenzene-d5 (Surr)	13-120
FBP = 2-Fluorobiphenyl (Surr)	23-120
TBP = 2,4,6-Tribromophenol (Surr)	10-126
TPHL = Terphenyl-d14 (Surr)	31-140

Column to be used to flag recovery values

FORM II 8270E

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 8.D

Lab ID: LCS 240-582476/11-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
2,4-Dimethylphenol	32.0	21.7	68	44-120	
2,4-Dinitrophenol	64.0	54.4	85	11-139	
3,3'-Dichlorobenzidine	64.0	60.7	95	51-154	
3-Nitroaniline	32.0	34.9	109	47-123	
4,6-Dinitro-2-methylphenol	64.0	58.1	91	49-130	
4-Chloroaniline	32.0	26.1	82	10-126	
4-Nitroaniline	32.0	37.9	118	56-127	
Acetophenone	32.0	27.4	86	47-120	
Aniline	32.0	22.5	70	26-120	
Benzyl alcohol	32.0	25.6	80	10-120	
Bis(2-chloroethoxy)methane	32.0	26.0	81	49-120	
Bis(2-chloroethyl)ether	32.0	30.2	94	40-120	
Butyl benzyl phthalate	32.0	25.5	80	58-124	
Di-n-butyl phthalate	32.0	28.4	89	59-130	
Hexachlorocyclopentadiene	32.0	18.0	56	15-120	
Hexachloroethane	32.0	23.3	73	39-120	
Isophorone	32.0	26.9	84	51-120	
N-Nitrosodi-n-propylamine	32.0	27.8	87	49-120	
N-Nitrosodiphenylamine	32.0	26.5	83	56-125	
Pyridine	64.0	44.8	70	10-120	
4-Nitrophenol	64.0	37.3	58	10-120	

Column to be used to flag recovery and RPD values

FORM III 8270E

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 9.D

Lab ID: LCS 240-582476/12-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,3,5-Trinitrobenzene	32.0	26.7	84	42-123	
1,4-Naphthoquinone	32.0	3.71 J	12	10-133	
1-Naphthylamine	32.0	7.93 J	25	10-120	
2-Acetylaminofluorene	32.0	29.5	92	57-125	
2-Naphthylamine	32.0	18.7	59	10-124	
2-Picoline	32.0	22.9	71	34-120	
3,3'-Dimethylbenzidine	32.0	19.7	61	10-129	
3-Methylcholanthrene	64.0	22.8	36	27-126	
4-Aminobiphenyl	32.0	21.8	68	29-120	
4-Nitroquinoline-1-oxide	32.0	21.9 J	68	10-122	
7,12-Dimethylbenz(a)anthracene	32.0	24.1	75	23-120	
Aramite, Total	32.0	23.1	72	19-156	
Chlorobenzilate	32.0	22.1	69	38-135	
Disulfoton	32.0	22.3	70	35-133	
Ethyl Parathion	32.0	25.7	80	51-128	
Famphur	32.0	33.8	106	10-199	E
Methapyrilene	64.0	39.2	61	30-120	
Methyl methanesulfonate	32.0	10.1	31	10-120	
Methyl parathion	32.0	26.5	83	53-138	
N-Nitrosodi-n-butylamine	32.0	26.6	83	54-123	
N-Nitrosomethylethylamine	32.0	22.2	69	39-120	
N-Nitrosopyrrolidine	32.0	25.4	79	37-123	
p-Dimethylamino azobenzene	32.0	27.2	85	54-131	
p-Phenylene diamine	32.0	150 U	0	10-120	*-
N-Nitro-o-toluidine	32.0	29.7	93	54-126	
o-Toluidine	32.0	23.0	72	10-135	

Column to be used to flag recovery and RPD values

FORM III 8270E

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 18.D

Lab ID: 240-189273-4 MS Client ID: 16WC1A MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
2,4-Dimethylphenol	29.6	9.3 U	18.6	63	27-120	
2,4-Dinitrophenol	59.3	9.3 U	50.0	84	10-123	
3,3'-Dichlorobenzidine	59.3	9.3 U	50.8	86	10-183	
3-Nitroaniline	29.6	9.3 U	23.0	78	10-127	
4,6-Dinitro-2-methylphenol	59.3	9.3 U	48.2	81	10-143	
4-Chloroaniline	29.6	9.3 U	9.48	32	10-120	
4-Nitroaniline	29.6	9.3 U	28.9	97	10-137	
Acetophenone	29.6	9.3 U	23.4	79	22-120	
Aniline	29.6	9.3 U	14.0	47	10-120	
Benzyl alcohol	29.6	9.3 U	17.7	60	17-120	
Bis(2-chloroethoxy)methane	29.6	0.93 U	22.9	77	25-120	
Bis(2-chloroethyl)ether	29.6	0.93 U	23.5	79	23-120	
Butyl benzyl phthalate	29.6	9.3 U	22.3	75	24-134	
Di-n-butyl phthalate	29.6	9.3 U	25.8	87	21-137	
Hexachlorocyclopentadiene	29.6	9.3 U	9.62	32	10-120	
Hexachloroethane	29.6	9.3 U	13.3	45	10-120	
Isophorone	29.6	9.3 U	23.9	81	27-120	
N-Nitrosodi-n-propylamine	29.6	9.3 U	24.3	82	23-120	
N-Nitrosodiphenylamine	29.6	9.3 U	23.1	78	22-121	
Pyridine	59.3	9.3 U	45.1	76	10-120	
4-Nitrophenol	59.3	9.3 U	34.3	58	10-120	

Column to be used to flag recovery and RPD values

FORM III 8270E

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 19.D

Lab ID: 240-189273-4 MSD Client ID: 16WC1A MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
2,4-Dimethylphenol	29.6	21.6	73	15	30	27-120	
2,4-Dinitrophenol	59.3	41.1	69	20	35	10-123	
3,3'-Dichlorobenzidine	59.3	55.7	94	9	35	10-183	
3-Nitroaniline	29.6	30.5	103	28	35	10-127	
4,6-Dinitro-2-methylphenol	59.3	42.3	71	13	35	10-143	
4-Chloroaniline	29.6	21.6	73	78	35	10-120	F2
4-Nitroaniline	29.6	38.1	129	28	35	10-137	
Acetophenone	29.6	25.8	87	10	35	22-120	
Aniline	29.6	21.1	71	41	35	10-120	F2
Benzyl alcohol	29.6	19.4	65	9	35	17-120	
Bis(2-chloroethoxy)methane	29.6	24.1	81	5	35	25-120	
Bis(2-chloroethyl)ether	29.6	25.6	86	8	33	23-120	
Butyl benzyl phthalate	29.6	23.3	79	4	33	24-134	
Di-n-butyl phthalate	29.6	26.7	90	3	34	21-137	
Hexachlorocyclopentadiene	29.6	11.5	39	18	35	10-120	
Hexachloroethane	29.6	16.1	54	19	35	10-120	
Isophorone	29.6	25.2	85	5	34	27-120	
N-Nitrosodi-n-propylamine	29.6	26.7	90	9	34	23-120	
N-Nitrosodiphenylamine	29.6	24.7	84	7	34	22-121	
Pyridine	59.3	57.8	97	25	20	10-120	E F2
4-Nitrophenol	59.3	36.2	61	5	35	10-120	

Column to be used to flag recovery and RPD values

FORM III 8270E

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Lab File ID: 7.D Lab Sample ID: MB 240-582476/10-A

Matrix: Water Date Extracted: 08/01/2023 08:59

Instrument ID: A4AG2 Date Analyzed: 08/09/2023 09:49

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 240-582476/11-A	8.D	08/09/2023 10:19
	LCS 240-582476/12-A	9.D	08/09/2023 10:42
16C1	240-189273-1	12.D	08/09/2023 11:52
16MW8	240-189273-2	13.D	08/09/2023 12:15
16MW9	240-189273-3	14.D	08/09/2023 12:38
16WDUP	240-189273-5	15.D	08/09/2023 13:01
16WC1B	240-189273-6	16.D	08/09/2023 13:25
16WC1A	240-189273-4	17.D	08/09/2023 13:48
16WC1A MS	240-189273-4 MS	18.D	08/09/2023 14:11
16WC1A MSD	240-189273-4 MSD	19.D	08/09/2023 14:34

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Lab File ID: DFTPP.D DFTPP Injection Date: 07/26/2023

Instrument ID: A4AG2 DFTPP Injection Time: 08:17

Analysis Batch No.: 581832

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0- 80.0% of mass 198	42.4
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	42.7
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	25.0 - 75.0% of mass 198	59.9
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0- 30.0% of mass 198	23.4
365	Greater than 0.75% of mass 198	2.8
441	Present, but less than mass 443	10.7
442	40.0 - 110.0% of mass 198	71.5
443	15.0 - 24.0% of mass 442	13.8 (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
	STD6 240-581832/2	CCV L1LVI.D	07/26/2023	8:38
	STD5 240-581832/3	CCV L2LVI.D	07/26/2023	9:05
	STD4 240-581832/4	CCV L3LVI.D	07/26/2023	9:28
	STD3 240-581832/5	5.D	07/26/2023	9:51
	STD2 240-581832/6	6.D	07/26/2023	10:15
	STD1 240-581832/7	7.D	07/26/2023	10:38
	STD7 240-581832/8	8.D	07/26/2023	11:01
	STD8 240-581832/9	9.D	07/26/2023	11:24
	STD9 240-581832/10	10.D	07/26/2023	11:48
	ICV 240-581832/11	11.D	07/26/2023	12:11

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Lab File ID: DFTPP.D DFTPP Injection Date: 07/27/2023

Instrument ID: A4AG2 DFTPP Injection Time: 08:41

Analysis Batch No.: 581979

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0- 80.0% of mass 198	46.4	
68	Less than 2.0% of mass 69	0.0	(0.0) 1
69	Mass 69 relative abundance	47.3	
70	Less than 2.0% of mass 69	0.2	(0.4) 1
127	25.0 - 75.0% of mass 198	60.7	
197	Less than 1.0% of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 to 9.0% of mass 198	6.9	
275	10.0- 30.0% of mass 198	23.0	
365	Greater than 0.75% of mass 198	2.8	
441	Present, but less than mass 443	10.0	
442	40.0 - 110.0% of mass 198	68.6	
443	15.0 - 24.0% of mass 442	13.0	(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
	STD5 240-581979/3	CCV L2LVI.D	07/27/2023	9:28
	STD4 240-581979/4	CCV L3LVI.D	07/27/2023	9:51
	STD3 240-581979/5	5.D	07/27/2023	10:14
	STD2 240-581979/6	6.D	07/27/2023	10:38
	STD6 240-581979/7	7.D	07/27/2023	11:01
	STD7 240-581979/8	8.D	07/27/2023	11:24
	STD8 240-581979/9	9.D	07/27/2023	11:48
	STD9 240-581979/10	10.D	07/27/2023	12:11
	ICV 240-581979/11	11.D	07/27/2023	12:34

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Lab File ID: DFTPP.D DFTPP Injection Date: 08/09/2023

Instrument ID: A4AG2 DFTPP Injection Time: 07:19

Analysis Batch No.: 583312

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0- 80.0% of mass 198	42.6	
68	Less than 2.0% of mass 69	0.0	(0.0) 1
69	Mass 69 relative abundance	43.9	
70	Less than 2.0% of mass 69	0.2	(0.5) 1
127	25.0 - 75.0% of mass 198	58.6	
197	Less than 1.0% of mass 198	0.2	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 to 9.0% of mass 198	7.0	
275	10.0- 30.0% of mass 198	24.8	
365	Greater than 0.75% of mass 198	3.1	
441	Present, but less than mass 443	12.0	
442	40.0 - 110.0% of mass 198	80.5	
443	15.0 - 24.0% of mass 442	15.6	(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
	CCV 240-583312/2	CCV L1LVI.D	08/09/2023	7:43
	CCV 240-583312/3	CCV L2LVI.D	08/09/2023	8:13
	MB 240-582476/10-A	7.D	08/09/2023	9:49
	LCS 240-582476/11-A	8.D	08/09/2023	10:19
	LCS 240-582476/12-A	9.D	08/09/2023	10:42
16C1	240-189273-1	12.D	08/09/2023	11:52
16MW8	240-189273-2	13.D	08/09/2023	12:15
16MW9	240-189273-3	14.D	08/09/2023	12:38
16WDUP	240-189273-5	15.D	08/09/2023	13:01
16WC1B	240-189273-6	16.D	08/09/2023	13:25
16WC1A	240-189273-4	17.D	08/09/2023	13:48
16WC1A MS	240-189273-4 MS	18.D	08/09/2023	14:11
16WC1A MSD	240-189273-4 MSD	19.D	08/09/2023	14:34

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

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Sample No.: STD6 240-581832/2 Date Analyzed: 07/26/2023 08:38

Instrument ID: A4AG2 GC Column: RXI-5SILMS/IIG ID: 0.25(mm)

Lab File ID (Standard): CCV L1LVI.D Heated Purge: (Y/N) N

Calibration ID: 71263

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		237131	6.75	1043141	7.82	537058	9.32
UPPER LIMIT		474262	7.25	2086282	8.32	1074116	9.82
LOWER LIMIT		118566	6.25	521571	7.32	268529	8.82
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-581832/11		275445	6.75	1113531	7.82	568978	9.32
ICV 240-581979/11		208271	6.75	1025862	7.82	581412	9.32
CCV 240-583312/2 CCVIS		258617	6.71	1055243	7.78	573302	9.28

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
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Sample No.: STD6 240-581832/2 Date Analyzed: 07/26/2023 08:38

Instrument ID: A4AG2 GC Column: RXI-5SILMS/IIG ID: 0.25(mm)

Lab File ID (Standard): CCV L1LVI.D Heated Purge: (Y/N) N

Calibration ID: 71263

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		790003	10.61	581412	13.57	571627	15.96
UPPER LIMIT		1580006	11.11	1162824	14.07	1143254	16.46
LOWER LIMIT		395002	10.11	290706	13.07	285814	15.46
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-581832/11		867951	10.61	612678	13.56	578496	15.95
ICV 240-581979/11		973485	10.60	628398	13.54	617966	15.92
CCV 240-583312/2 CCVIS		880035	10.56	662537	13.49	729931	15.86

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
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Sample No.: CCV 240-583312/2 Date Analyzed: 08/09/2023 07:43

Instrument ID: A4AG2 GC Column: RXI-5SILMS/IIG ID: 0.25(mm)

Lab File ID (Standard): CCV L1LVI.D Heated Purge: (Y/N) N

Calibration ID: 71430

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		258617	6.71	1055243	7.78	573302	9.28
UPPER LIMIT		517234	7.21	2110486	8.28	1146604	9.78
LOWER LIMIT		129309	6.21	527622	7.28	286651	8.78
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 240-583312/3		257762	6.71	1167936	7.78	617236	9.28
MB 240-582476/10-A		243766	6.71	1108867	7.78	473220	9.28
LCS 240-582476/11-A		257897	6.71	1194156	7.78	628358	9.28
LCS 240-582476/12-A		257656	6.71	1164637	7.78	628511	9.27
240-189273-1	16C1	216718	6.71	956182	7.78	574081	9.28
240-189273-2	16MW8	265322	6.71	1008938	7.78	526845	9.28
240-189273-3	16MW9	244146	6.71	1020519	7.78	593783	9.28
240-189273-5	16WDUP	245807	6.71	1002453	7.78	564663	9.28
240-189273-6	16WC1B	250477	6.71	966487	7.78	584810	9.28
240-189273-4	16WC1A	260644	6.71	1142713	7.78	578739	9.28
240-189273-4 MS	16WC1A MS	266859	6.71	1201760	7.78	634754	9.27
240-189273-4 MSD	16WC1A MSD	250198	6.71	1172697	7.77	603212	9.27

DCBd4 = 1,4-Dichlorobenzene-d4
DCBd4 = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
NPT = Naphthalene-d8
Area Limit = 50%-200% of internal standard area
ANT = Acenaphthene-d10
RT Limit = ± 0.5 minutes of internal standard RT
ANT = Acenaphthene-d10
# Column used to flag values outside QC limits

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

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Sample No.: CCV 240-583312/2 Date Analyzed: 08/09/2023 07:43

Instrument ID: A4AG2 GC Column: RXI-5SILMS/IIG ID: 0.25(mm)

Lab File ID (Standard): CCV L1LVI.D Heated Purge: (Y/N) N

Calibration ID: 71430

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		880035	10.56	662537	13.49	729931	15.86
UPPER LIMIT		1760070	11.06	1325074	13.99	1459862	16.36
LOWER LIMIT		440018	10.06	331269	12.99	364966	15.36
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 240-583312/3		971182	10.57	693115	13.49	736471	15.87
MB 240-582476/10-A		890413	10.57	629728	13.49	702136	15.85
LCS 240-582476/11-A		968490	10.57	726182	13.50	791715	15.86
LCS 240-582476/12-A		986843	10.56	698580	13.48	791719	15.85
240-189273-1	16C1	964316	10.56	658767	13.48	741283	15.85
240-189273-2	16MW8	913334	10.57	669526	13.48	742429	15.85
240-189273-3	16MW9	965288	10.57	667771	13.49	752998	15.85
240-189273-5	16WDUP	928266	10.57	653881	13.49	704535	15.85
240-189273-6	16WC1B	987771	10.56	688465	13.48	753325	15.85
240-189273-4	16WC1A	984583	10.57	673253	13.49	769314	15.85
240-189273-4 MS	16WC1A MS	976306	10.56	761752	13.49	847125	15.85
240-189273-4 MSD	16WC1A MSD	928502	10.56	710691	13.49	755901	15.85

PHN = Phenanthrene-d10
PHN = Phenanthrene-d10
CRY = Chrysene-d12
CRY = Chrysene-d12
PRY = Perylene-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 I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 240-189273-1

SDG No.:

Client Sample ID: 16C1 | Lab Sample ID: 240-189273-1

Matrix: Water | Lab File ID: 12.D

Analysis Method: 8270E | Date Collected: 07/27/2023 12:45

Extract. Method: 3510C LVI | Date Extracted: 08/01/2023 08:59

Sample wt/vol: 270(mL) | Date Analyzed: 08/09/2023 11:52

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | GC Column: RXI-5SILMS/IIG ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 583312 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
99-35-4	1,3,5-Trinitrobenzene	9.3	U	9.3	2.8
130-15-4	1,4-Naphthoquinone	9.3	U	9.3	2.8
134-32-7	1-Naphthylamine	9.3	U	9.3	2.8
105-67-9	2,4-Dimethylphenol	9.3	U	9.3	2.8
51-28-5	2,4-Dinitrophenol	9.3	U	9.3	5.7
53-96-3	2-Acetylaminofluorene	9.3	U	9.3	2.8
91-59-8	2-Naphthylamine	9.3	U	9.3	6.5
109-06-8	2-Picoline	9.3	U	9.3	0.93
91-94-1	3,3'-Dichlorobenzidine	9.3	U	9.3	2.8
119-93-7	3,3'-Dimethylbenzidine	9.3	U	9.3	3.1
56-49-5	3-Methylcholanthrene	9.3	U	9.3	0.93
99-09-2	3-Nitroaniline	9.3	U	9.3	1.9
534-52-1	4,6-Dinitro-2-methylphenol	9.3	U	9.3	2.8
92-67-1	4-Aminobiphenyl	9.3	U	9.3	2.8
106-47-8	4-Chloroaniline	9.3	U	9.3	3.1
100-01-6	4-Nitroaniline	9.3	U	9.3	1.4
56-57-5	4-Nitroquinoline-1-oxide	46	U	46	4.6
57-97-6	7,12-Dimethylbenz(a)anthracene	9.3	U	9.3	1.7
98-86-2	Acetophenone	9.3	U	9.3	0.93
62-53-3	Aniline	9.3	U	9.3	1.0
140-57-8	Aramite, Total	9.3	U	9.3	3.4
100-51-6	Benzyl alcohol	9.3	U	9.3	2.8
111-91-1	Bis(2-chloroethoxy)methane	0.93	U	0.93	0.46
111-44-4	Bis(2-chloroethyl)ether	0.93	U	0.93	0.46
85-68-7	Butyl benzyl phthalate	9.3	U	9.3	0.65
510-15-6	Chlorobenzilate	9.3	U	9.3	2.8
84-74-2	Di-n-butyl phthalate	9.3	U	9.3	1.7
298-04-4	Disulfoton	9.3	U	9.3	2.8
56-38-2	Ethyl Parathion	9.3	U	9.3	2.8
52-85-7	Famphur	9.3	U	9.3	4.6
77-47-4	Hexachlorocyclopentadiene	9.3	U	9.3	2.8
67-72-1	Hexachloroethane	9.3	U	9.3	0.37

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 240-189273-1

SDG No.:

Client Sample ID: 16C1 | Lab Sample ID: 240-189273-1

Matrix: Water | Lab File ID: 12.D

Analysis Method: 8270E | Date Collected: 07/27/2023 12:45

Extract. Method: 3510C LVI | Date Extracted: 08/01/2023 08:59

Sample wt/vol: 270(mL) | Date Analyzed: 08/09/2023 11:52

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | GC Column: RXI-5SILMS/IIG ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 583312 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
78-59-1	Isophorone	9.3	U	9.3	0.46
91-80-5	Methapyrilene	9.3	U	9.3	2.8
66-27-3	Methyl methanesulfonate	9.3	U	9.3	0.93
298-00-0	Methyl parathion	9.3	U	9.3	3.0
924-16-3	N-Nitrosodi-n-butylamine	9.3	U	9.3	2.8
621-64-7	N-Nitrosodi-n-propylamine	9.3	U	9.3	0.46
86-30-6	N-Nitrosodiphenylamine	9.3	U	9.3	0.54
10595-95-6	N-Nitrosomethylethylamine	9.3	U	9.3	0.93
930-55-2	N-Nitrosopyrrolidine	9.3	U	9.3	0.46
60-11-7	p-Dimethylamino azobenzene	9.3	U	9.3	2.8
106-50-3	p-Phenylene diamine	140	U *-	140	24
110-86-1	Pyridine	9.3	U	9.3	1.9
99-55-8	N-Nitro-o-toluidine	4.6	U	4.6	1.1
95-53-4	o-Toluidine	9.3	U	9.3	3.7
100-02-7	4-Nitrophenol	9.3	U	9.3	2.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14 (Surr)	93		31-140
4165-62-2	Phenol-d5 (Surr)	78		18-120
4165-60-0	Nitrobenzene-d5 (Surr)	76		13-120
367-12-4	2-Fluorophenol (Surr)	82		12-120
321-60-8	2-Fluorobiphenyl (Surr)	70		23-120
118-79-6	2,4,6-Tribromophenol (Surr)	60		10-126

Eurofins Cleveland
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\12.D
Lims ID: 240-189273-E-1-A
Client ID: 16C1
Sample Type: Client
Inject. Date: 09-Aug-2023 11:52:30 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 240-0132248-012
Misc. Info.: 240-189273-E-1-A
Operator ID: Instrument ID: A4AG2

Method: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\LVI AG2 8270.m
Limit Group: MSS 8270D ICAL
Last Update: 10-Aug-2023 12:37:20 Calib Date: 08-Aug-2023 12:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A4AG2\20230808-132200.b\10.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: KDZ4 Date: 10-Aug-2023 11:57:45

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ml	Flags
*	1 1,4-Dichlorobenzene-d4	152	6.712	6.712	0.000	95	216718	400.0	
*	2 Naphthalene-d8	136	7.777	7.777	0.000	99	956182	400.0	
*	3 Acenaphthene-d10	164	9.277	9.277	0.000	93	574081	400.0	
*	4 Phenanthrene-d10	188	10.559	10.565	-0.006	96	964316	400.0	
*	5 Chrysene-d12	240	13.482	13.494	-0.012	98	658767	400.0	
*	6 Perylene-d12	264	15.853	15.865	-0.012	96	741283	400.0	
$	7 2-Fluorophenol	112	5.653	5.653	0.000	89	559135	1311.8	
$	8 Phenol-d5	99	6.371	6.371	0.000	0	1011150	1253.8	
$	9 Nitrobenzene-d5	82	7.159	7.159	0.000	86	1012477	1215.1	
$	10 2-Fluorobiphenyl (Surr)	172	8.665	8.665	0.000	100	2173162	1127.9	
$	11 2,4,6-Tribromophenol	330	9.953	9.953	0.000	91	178285	967.9	
$	12 Terphenyl-d14	244	12.041	12.047	-0.006	97	2818487	1487.8	
	28 Pyridine	79		4.548				ND	
	31 2-Picoline	93		5.183				ND	
	32 N-Nitrosomethylethylamine	88		5.254				ND	
	34 Methyl methanesulfonate	80		5.483				ND	
	44 Aniline	93		6.430				ND	
	45 Bis(2-chloroethyl)ether	93		6.453				ND	
	50 Benzyl alcohol	108		6.794				ND	
	56 N-Nitrosopyrrolidine	100		6.995				ND	
	57 N-Nitrosodi-n-propylamine	70		7.000				ND	
	58 Acetophenone	105	7.018	7.018	0.000	97	18692	16.5	
	60 2-Toluidine	106		7.053				ND	
	61 Hexachloroethane	117		7.147				ND	
	64 Isophorone	82		7.359				ND	
	66 2,4-Dimethylphenol	107		7.441				ND	
	69 Bis(2-chloroethoxy)methane	93		7.506				ND	
	75 4-Chloroaniline	127		7.818				ND	
	82 N-Nitrosodi-n-butylamine	84		8.065				ND	
	84 p-Phenylene diamine	108		8.106				ND	
	89 Hexachlorocyclopentadiene	237		8.506				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ml	Flags
102 1,4-Naphthoquinone	158		8.930				ND	
109 3-Nitroaniline	138		9.212				ND	
110 2,4-Dinitrophenol	184		9.288				ND	
112 4-Nitrophenol	109		9.330				ND	
117 1-Naphthylamine	143		9.512				ND	
119 2-Naphthylamine	143		9.577				ND	
123 N-Nitro-o-toluidine	152		9.736				ND	U
125 4-Nitroaniline	138		9.741				ND	
127 4,6-Dinitro-2-methylphenol	198		9.753				ND	
128 N-Nitrosodiphenylamine	169		9.806				ND	
133 1,3,5-Trinitrobenzene	213		10.000				ND	
142 4-Aminobiphenyl	169		10.365				ND	
146 Disulfoton	88		10.494				ND	U
152 Methyl parathion	109		10.836				ND	
154 Di-n-butyl phthalate	149	10.971	10.971	0.000	100	99978	30.0	
155 Ethyl Parathion	97		11.171				ND	
156 4-Nitroquinoline-1-oxide	190		11.259				ND	
157 Methapyrilene	58		11.283				ND	
162 Aramite Peak 1	185		11.965				ND	U
163 Aramite Peak 2	185		12.047				ND	U
164 p-Dimethylamino azobenzene	225		12.206				ND	
165 Chlorobenzilate	139		12.235				ND	
168 Famphur	218		12.541				ND	
169 Butyl benzyl phthalate	149		12.576				ND	
170 3,3'-Dimethylbenzidine	212		12.618				ND	
172 2-Acetylaminofluorene	181		12.971				ND	
177 3,3'-Dichlorobenzidine	252		13.382				ND	
182 7,12-Dimethylbenz(a)anthracene	256		15.176				ND	
186 3-Methylcholanthrene	268		16.370				ND	
S 196 Aramite, Total	185		7.898				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

SMIS80PPMW_00027 Amount Added: 5.00 Units: uL Run Reagent

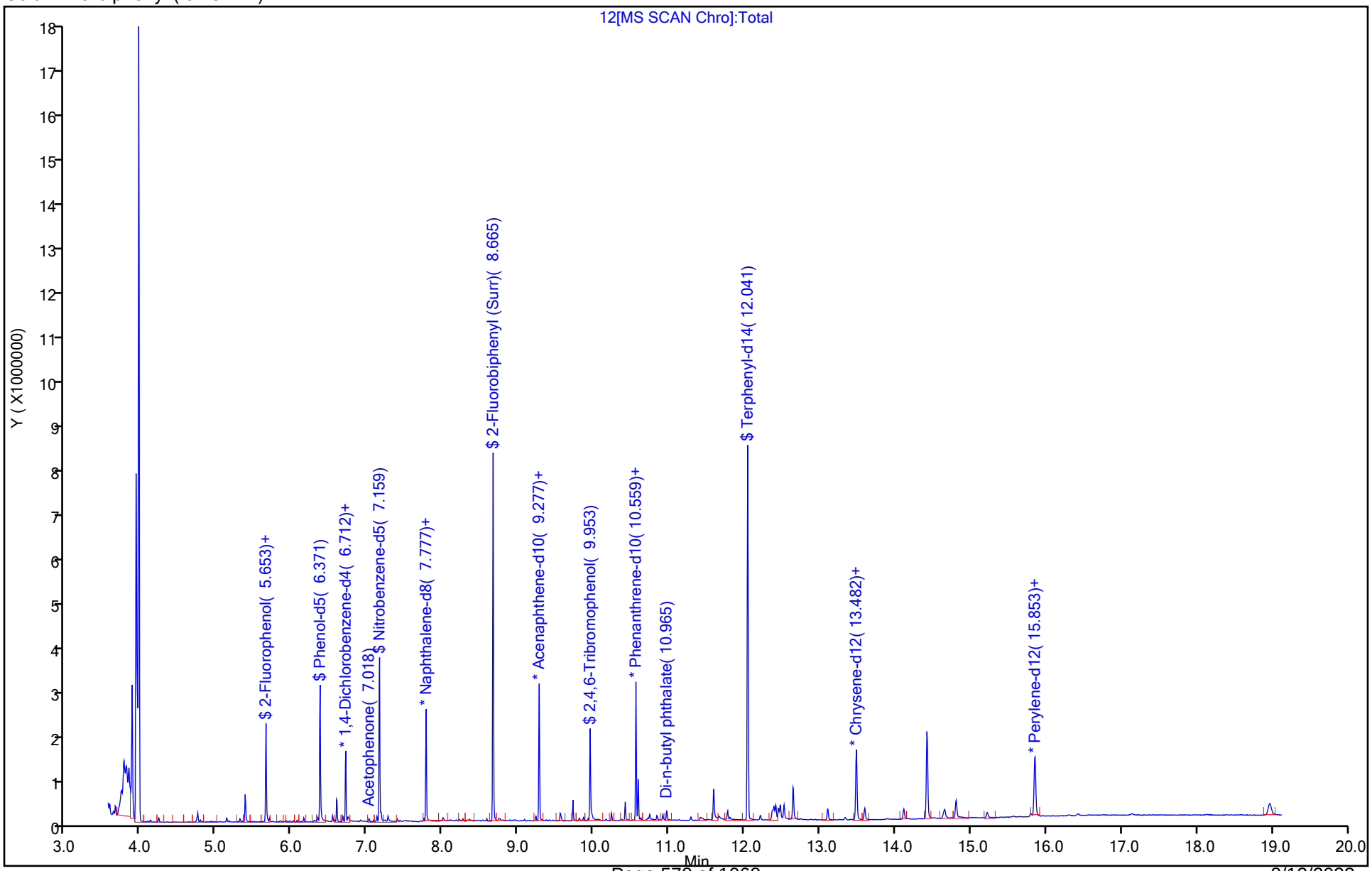
Report Date: 10-Aug-2023 12:43:24 Chrom Revision: 2.3 03-Aug-2023 16:11:04

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\12.D

Injection Date:	09-Aug-2023 11:52:30	Instrument ID:	A4AG2	Operator ID:	
Lims ID:	240-189273-E-1-A	Lab Sample ID:	240-189273-1	Worklist Smp#:	12
Client ID:	16C1				
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		

Column: 5% phenyl (0.18 mm)



Eurofins Cleveland
Recovery Report

Data File: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\12.D
Lims ID: 240-189273-E-1-A
Client ID: 16C1
Sample Type: Client
Inject. Date: 09-Aug-2023 11:52:30 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 240-0132248-012
Misc. Info.: 240-189273-E-1-A
Operator ID: Instrument ID: A4AG2

Method: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\LVI AG2 8270.m
Limit Group: MSS 8270D ICAL
Last Update: 10-Aug-2023 12:37:20 Calib Date: 08-Aug-2023 12:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A4AG2\20230808-132200.b\10.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: KDZ4 Date: 10-Aug-2023 11:57:45

Compound	Amount Added	Amount Recovered	% Rec.
$ 7 2-Fluorophenol	1600.0	1311.8	81.98
$ 8 Phenol-d5	1600.0	1253.8	78.36
$ 9 Nitrobenzene-d5	1600.0	1215.1	75.94
$ 10 2-Fluorobiphenyl (Surr)	1600.0	1127.9	70.50
$ 11 2,4,6-Tribromophenol	1600.0	967.9	60.50
$ 12 Terphenyl-d14	1600.0	1487.8	92.99

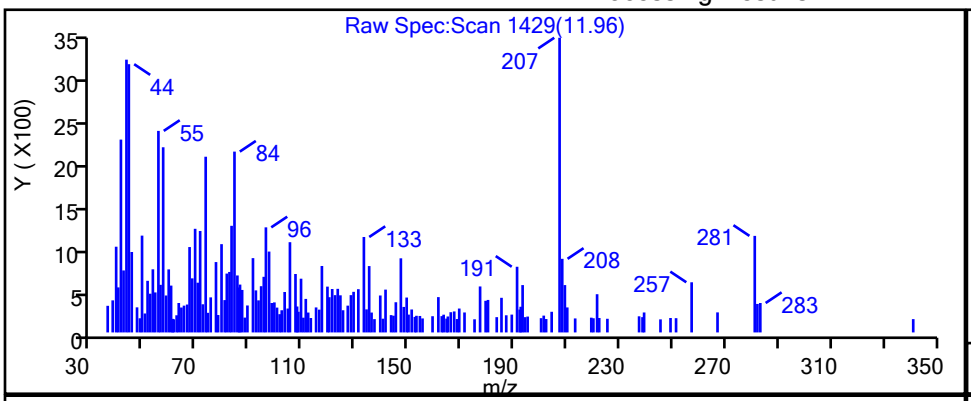
User Disabled Compound Report

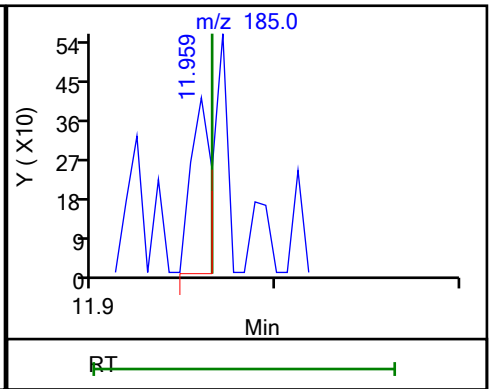
Eurofins Cleveland

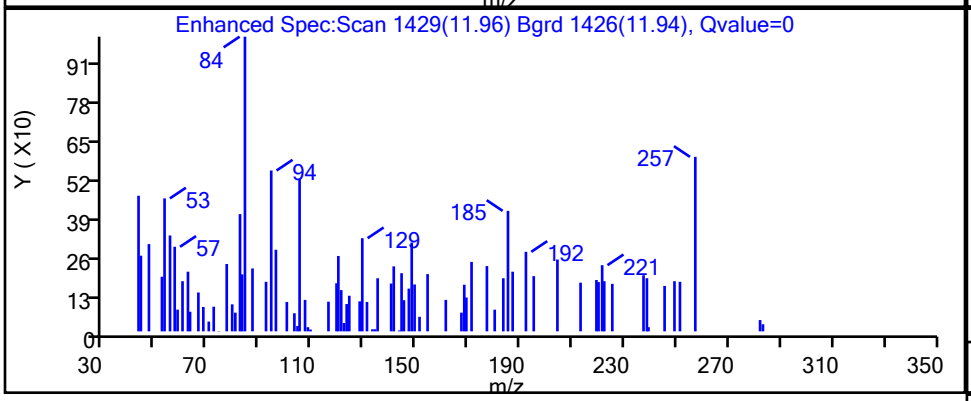
Data File:	\\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\12.D				
Injection Date:	09-Aug-2023 11:52:30	Instrument ID:	A4AG2		
Lims ID:	240-189273-E-1-A	Lab Sample ID:	240-189273-1		
Client ID:	16C1				
Operator ID:		ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

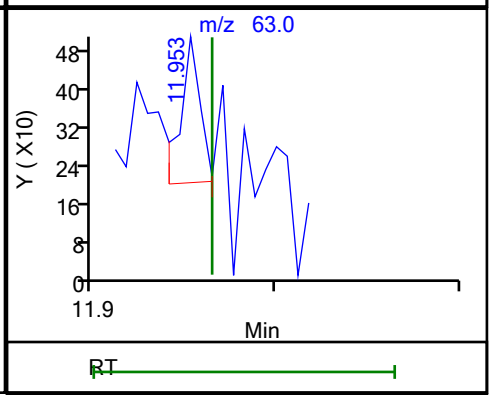
162 Aramite Peak 1, CAS: STL00690

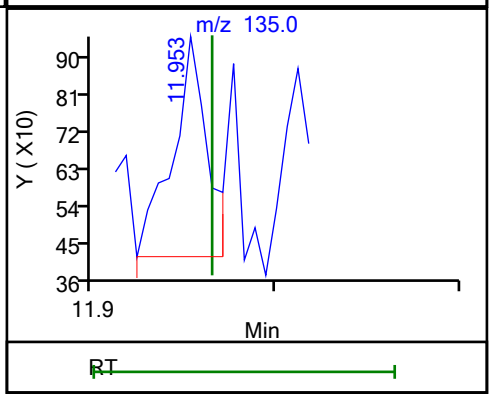
Processing Results











RT	Mass	Response	Amount
11.96	185.00	318	12.816474
11.95	63.00	235	
11.95	135.00	713	

Reviewer: KDZ4, 10-Aug-2023 11:57:28 -04:00:00 (UTC)

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

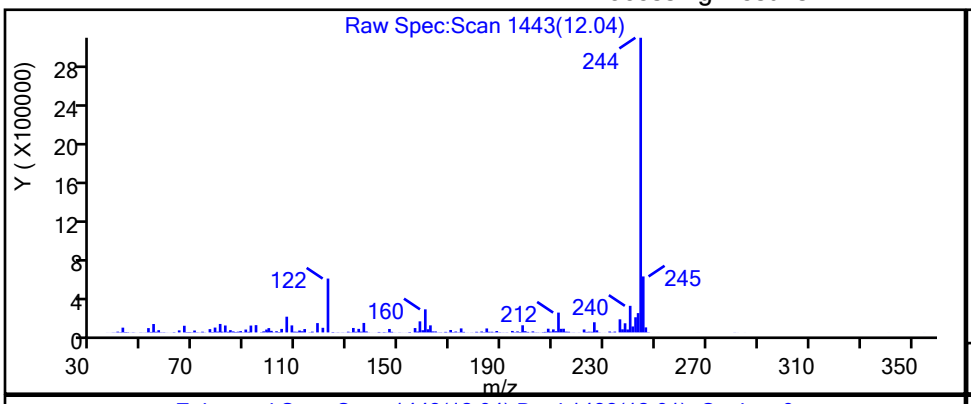
User Disabled Compound Report

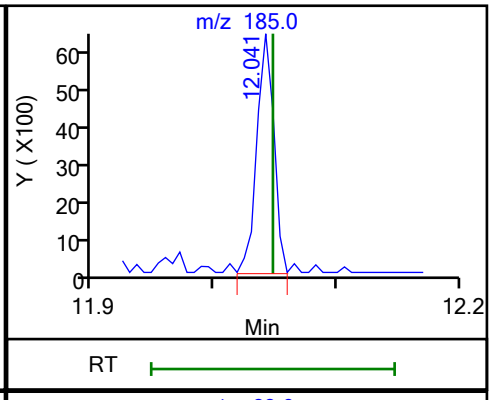
Eurofins Cleveland

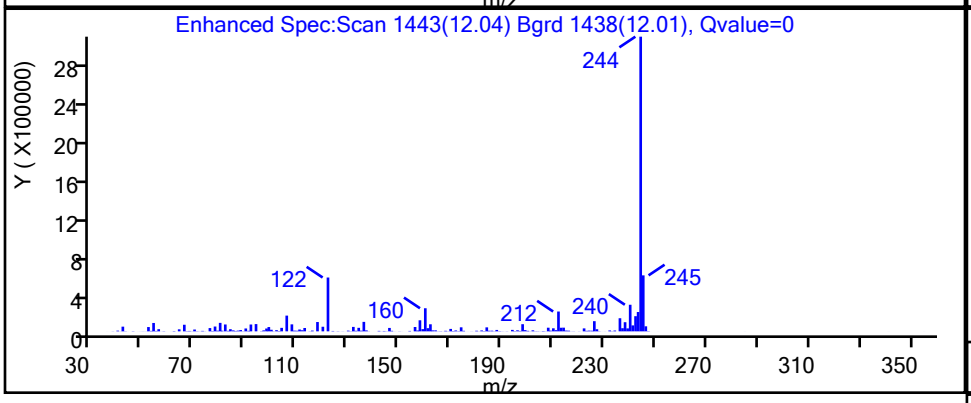
Data File:	\\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\12.D				
Injection Date:	09-Aug-2023 11:52:30	Instrument ID:	A4AG2		
Lims ID:	240-189273-E-1-A	Lab Sample ID:	240-189273-1		
Client ID:	16C1				
Operator ID:		ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

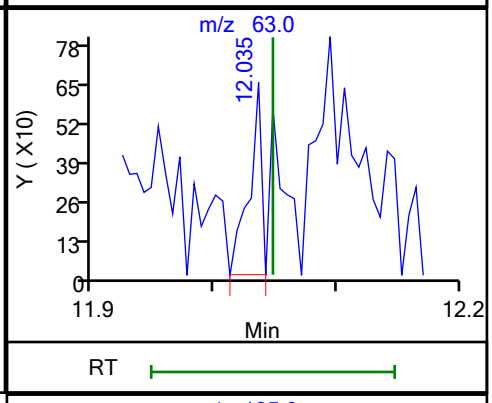
163 Aramite Peak 2, CAS: STL00691

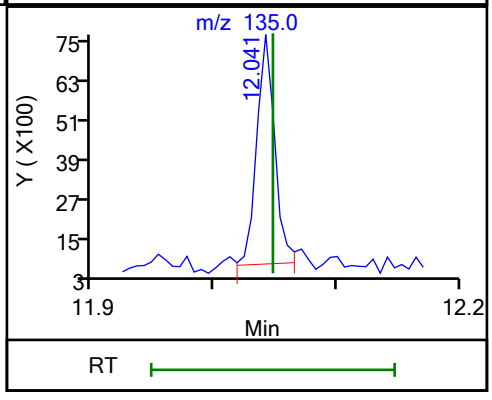
Processing Results











RT	Mass	Response	Amount
12.04	185.00	6278	32.530382
12.04	63.00	454	
12.04	135.00	7219	

Reviewer: KDZ4, 10-Aug-2023 11:57:30 -04:00:00 (UTC)

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

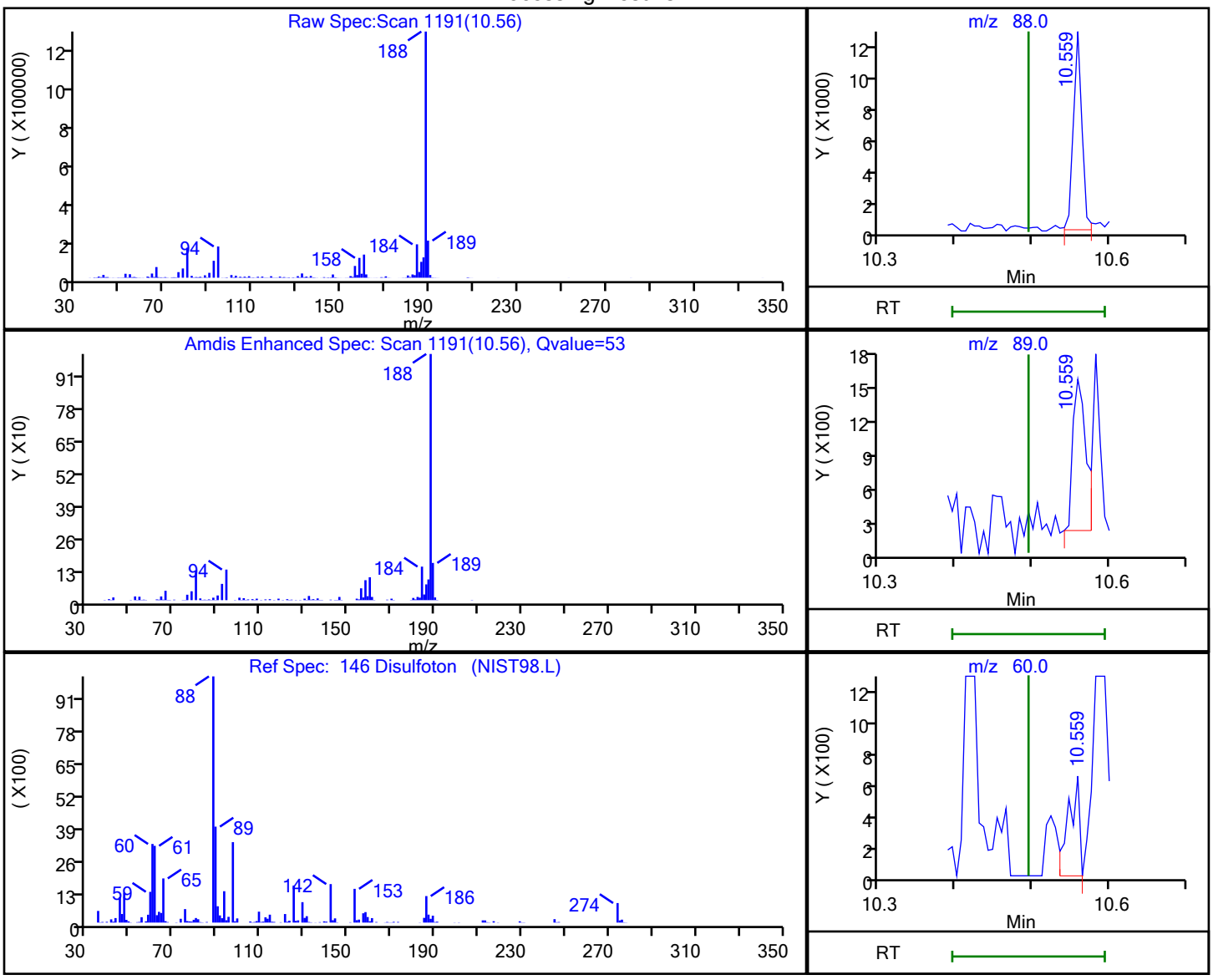
User Disabled Compound Report

Eurofins Cleveland

Data File:	\\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\12.D				
Injection Date:	09-Aug-2023 11:52:30	Instrument ID:	A4AG2		
Lims ID:	240-189273-E-1-A	Lab Sample ID:	240-189273-1		
Client ID:	16C1				
Operator ID:		ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

146 Disulfoton, CAS: 298-04-4

Processing Results



RT	Mass	Response	Amount
10.56	88.00	9631	8.630986
10.56	89.00	1597	
10.56	60.00	618	

Reviewer: KDZ4, 10-Aug-2023 11:57:23 -04:00:00 (UTC)

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

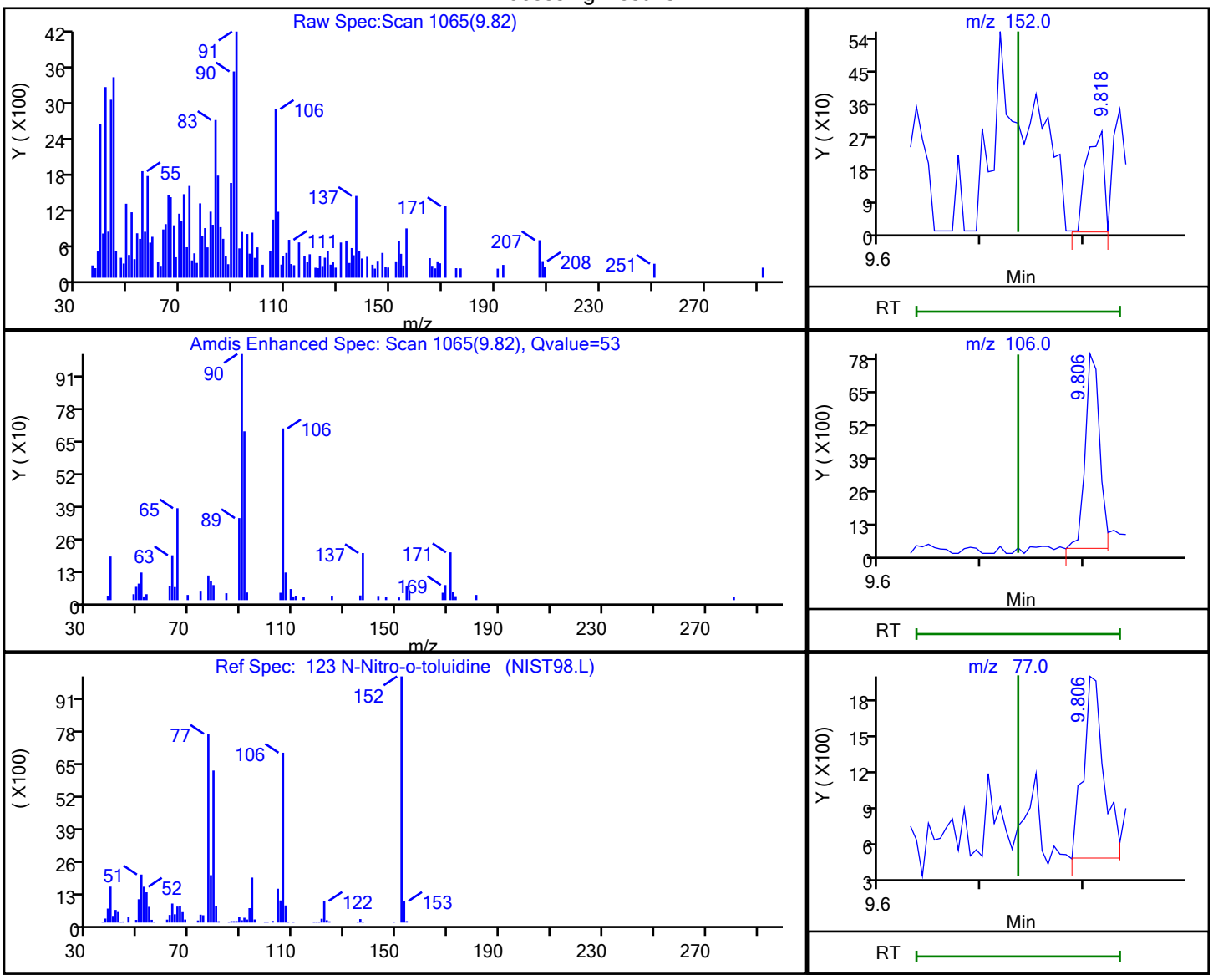
User Disabled Compound Report

Eurofins Cleveland

Data File:	\\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\12.D				
Injection Date:	09-Aug-2023 11:52:30	Instrument ID:	A4AG2		
Lims ID:	240-189273-E-1-A	Lab Sample ID:	240-189273-1		
Client ID:	16C1				
Operator ID:		ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

123 N-Nitro-o-toluidine, CAS: 99-55-8

Processing Results



RT	Mass	Response	Amount
9.82	152.00	326	0.666729
9.81	106.00	7696	
9.81	77.00	2074	

Reviewer: KDZ4, 10-Aug-2023 11:57:20 -04:00:00 (UTC)

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

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 240-189273-1

SDG No.:

Client Sample ID: 16MW8 | Lab Sample ID: 240-189273-2

Matrix: Water | Lab File ID: 13.D

Analysis Method: 8270E | Date Collected: 07/26/2023 10:05

Extract. Method: 3510C LVI | Date Extracted: 08/01/2023 08:59

Sample wt/vol: 270(mL) | Date Analyzed: 08/09/2023 12:15

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | GC Column: RXI-5SILMS/IIG ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 583312 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
99-35-4	1,3,5-Trinitrobenzene	9.3	U	9.3	2.8
130-15-4	1,4-Naphthoquinone	9.3	U	9.3	2.8
134-32-7	1-Naphthylamine	9.3	U	9.3	2.8
105-67-9	2,4-Dimethylphenol	9.3	U	9.3	2.8
51-28-5	2,4-Dinitrophenol	9.3	U	9.3	5.7
53-96-3	2-Acetylaminofluorene	9.3	U	9.3	2.8
91-59-8	2-Naphthylamine	9.3	U	9.3	6.5
109-06-8	2-Picoline	9.3	U	9.3	0.93
91-94-1	3,3'-Dichlorobenzidine	9.3	U	9.3	2.8
119-93-7	3,3'-Dimethylbenzidine	9.3	U	9.3	3.1
56-49-5	3-Methylcholanthrene	9.3	U	9.3	0.93
99-09-2	3-Nitroaniline	9.3	U	9.3	1.9
534-52-1	4,6-Dinitro-2-methylphenol	9.3	U	9.3	2.8
92-67-1	4-Aminobiphenyl	9.3	U	9.3	2.8
106-47-8	4-Chloroaniline	9.3	U	9.3	3.1
100-01-6	4-Nitroaniline	9.3	U	9.3	1.4
56-57-5	4-Nitroquinoline-1-oxide	46	U	46	4.6
57-97-6	7,12-Dimethylbenz(a)anthracene	9.3	U	9.3	1.7
98-86-2	Acetophenone	9.3	U	9.3	0.93
62-53-3	Aniline	9.3	U	9.3	1.0
140-57-8	Aramite, Total	9.3	U	9.3	3.4
100-51-6	Benzyl alcohol	9.3	U	9.3	2.8
111-91-1	Bis(2-chloroethoxy)methane	0.93	U	0.93	0.46
111-44-4	Bis(2-chloroethyl)ether	0.93	U	0.93	0.46
85-68-7	Butyl benzyl phthalate	9.3	U	9.3	0.65
510-15-6	Chlorobenzilate	9.3	U	9.3	2.8
84-74-2	Di-n-butyl phthalate	9.3	U	9.3	1.7
298-04-4	Disulfoton	9.3	U	9.3	2.8
56-38-2	Ethyl Parathion	9.3	U	9.3	2.8
52-85-7	Famphur	9.3	U	9.3	4.6
77-47-4	Hexachlorocyclopentadiene	9.3	U	9.3	2.8
67-72-1	Hexachloroethane	9.3	U	9.3	0.37

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 240-189273-1

SDG No.:

Client Sample ID: 16MW8 | Lab Sample ID: 240-189273-2

Matrix: Water | Lab File ID: 13.D

Analysis Method: 8270E | Date Collected: 07/26/2023 10:05

Extract. Method: 3510C LVI | Date Extracted: 08/01/2023 08:59

Sample wt/vol: 270(mL) | Date Analyzed: 08/09/2023 12:15

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | GC Column: RXI-5SILMS/IIG ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 583312 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
78-59-1	Isophorone	9.3	U	9.3	0.46
91-80-5	Methapyrilene	9.3	U	9.3	2.8
66-27-3	Methyl methanesulfonate	9.3	U	9.3	0.93
298-00-0	Methyl parathion	9.3	U	9.3	3.0
924-16-3	N-Nitrosodi-n-butylamine	9.3	U	9.3	2.8
621-64-7	N-Nitrosodi-n-propylamine	9.3	U	9.3	0.46
86-30-6	N-Nitrosodiphenylamine	9.3	U	9.3	0.54
10595-95-6	N-Nitrosomethylethylamine	9.3	U	9.3	0.93
930-55-2	N-Nitrosopyrrolidine	9.3	U	9.3	0.46
60-11-7	p-Dimethylamino azobenzene	9.3	U	9.3	2.8
106-50-3	p-Phenylene diamine	140	U *-	140	24
110-86-1	Pyridine	9.3	U	9.3	1.9
99-55-8	N-Nitro-o-toluidine	4.6	U	4.6	1.1
95-53-4	o-Toluidine	9.3	U	9.3	3.7
100-02-7	4-Nitrophenol	9.3	U	9.3	2.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14 (Surr)	94		31-140
4165-62-2	Phenol-d5 (Surr)	61		18-120
4165-60-0	Nitrobenzene-d5 (Surr)	81		13-120
367-12-4	2-Fluorophenol (Surr)	86		12-120
321-60-8	2-Fluorobiphenyl (Surr)	75		23-120
118-79-6	2,4,6-Tribromophenol (Surr)	60		10-126

Eurofins Cleveland
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\13.D
Lims ID: 240-189273-E-2-A
Client ID: 16MW8
Sample Type: Client
Inject. Date: 09-Aug-2023 12:15:30 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 240-0132248-013
Misc. Info.: 240-189273-E-2-A
Operator ID: Instrument ID: A4AG2

Method: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\LVI AG2 8270.m
Limit Group: MSS 8270D ICAL
Last Update: 10-Aug-2023 12:37:20 Calib Date: 08-Aug-2023 12:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A4AG2\20230808-132200.b\10.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: KDZ4 Date: 10-Aug-2023 11:58:32

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ml	Flags
*	1 1,4-Dichlorobenzene-d4	152	6.712	6.712	0.000	95	265322	400.0	
*	2 Naphthalene-d8	136	7.777	7.777	0.000	99	1008938	400.0	
*	3 Acenaphthene-d10	164	9.277	9.277	0.000	93	526845	400.0	
*	4 Phenanthrene-d10	188	10.565	10.565	0.000	97	913334	400.0	
*	5 Chrysene-d12	240	13.482	13.494	-0.012	98	669526	400.0	
*	6 Perylene-d12	264	15.853	15.865	-0.012	95	742429	400.0	
$	7 2-Fluorophenol	112	5.653	5.653	0.000	90	720495	1380.7	
$	8 Phenol-d5	99	6.371	6.371	0.000	0	963468	975.8	
$	9 Nitrobenzene-d5	82	7.159	7.159	0.000	87	1135555	1291.5	
$	10 2-Fluorobiphenyl (Surr)	172	8.665	8.665	0.000	100	2127640	1203.3	
$	11 2,4,6-Tribromophenol	330	9.953	9.953	0.000	90	162182	959.8	
$	12 Terphenyl-d14	244	12.041	12.047	-0.006	97	2888377	1500.2	
	28 Pyridine	79		4.548				ND	
	31 2-Picoline	93		5.183				ND	
	32 N-Nitrosomethylethylamine	88		5.254				ND	
	34 Methyl methanesulfonate	80		5.483				ND	
	44 Aniline	93		6.430				ND	
	45 Bis(2-chloroethyl)ether	93		6.453				ND	
	50 Benzyl alcohol	108		6.794				ND	
	56 N-Nitrosopyrrolidine	100		6.995				ND	
	57 N-Nitrosodi-n-propylamine	70		7.000				ND	
	58 Acetophenone	105		7.018				ND	
	60 2-Toluidine	106		7.053				ND	
	61 Hexachloroethane	117		7.147				ND	
	64 Isophorone	82		7.359				ND	
	66 2,4-Dimethylphenol	107		7.441				ND	
	69 Bis(2-chloroethoxy)methane	93		7.506				ND	
	75 4-Chloroaniline	127		7.818				ND	
	82 N-Nitrosodi-n-butylamine	84		8.065				ND	U
	84 p-Phenylene diamine	108		8.106				ND	
	89 Hexachlorocyclopentadiene	237		8.506				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ml	Flags
102 1,4-Naphthoquinone	158		8.930				ND	
109 3-Nitroaniline	138		9.212				ND	
110 2,4-Dinitrophenol	184		9.288				ND	
112 4-Nitrophenol	109		9.330				ND	
117 1-Naphthylamine	143		9.512				ND	
119 2-Naphthylamine	143		9.577				ND	
123 N-Nitro-o-toluidine	152		9.736				ND	
125 4-Nitroaniline	138		9.741				ND	
127 4,6-Dinitro-2-methylphenol	198		9.753				ND	
128 N-Nitrosodiphenylamine	169		9.806				ND	
133 1,3,5-Trinitrobenzene	213		10.000				ND	
142 4-Aminobiphenyl	169		10.365				ND	
146 Disulfoton	88		10.494				ND	
152 Methyl parathion	109		10.836				ND	U
154 Di-n-butyl phthalate	149	10.971	10.971	0.000	99	99119	31.4	
155 Ethyl Parathion	97		11.171				ND	
156 4-Nitroquinoline-1-oxide	190		11.259				ND	
157 Methapyrilene	58		11.283				ND	
162 Aramite Peak 1	185		11.965				ND	U
163 Aramite Peak 2	185		12.047				ND	U
164 p-Dimethylamino azobenzene	225		12.206				ND	
165 Chlorobenzilate	139		12.235				ND	
168 Famphur	218		12.541				ND	
169 Butyl benzyl phthalate	149		12.576				ND	
170 3,3'-Dimethylbenzidine	212		12.618				ND	
172 2-Acetylaminofluorene	181		12.971				ND	
177 3,3'-Dichlorobenzidine	252		13.382				ND	
182 7,12-Dimethylbenz(a)anthracene	256		15.176				ND	
186 3-Methylcholanthrene	268		16.370				ND	
S 196 Aramite, Total	185		7.898				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

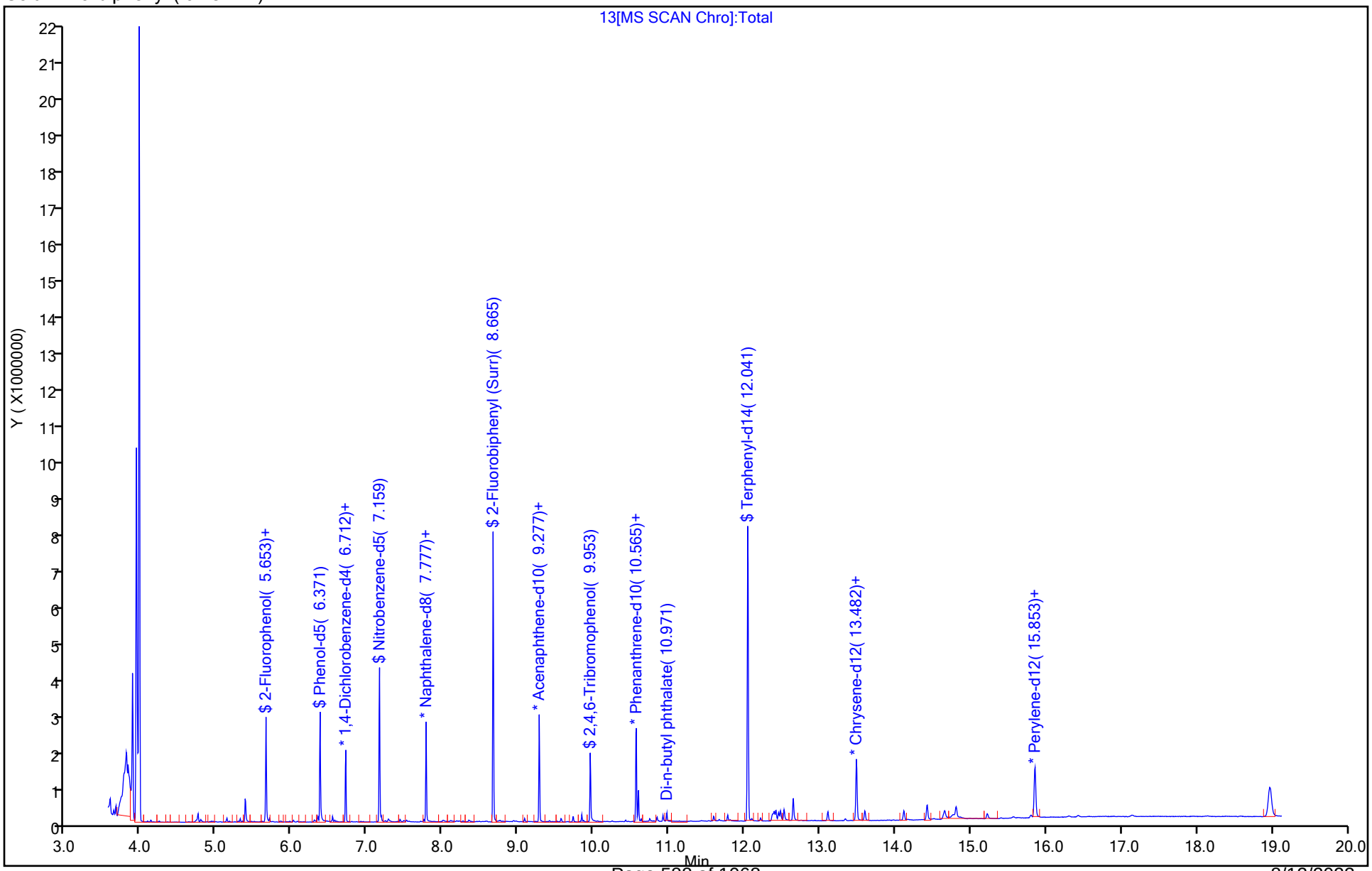
SMIS80PPMW_00027 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 10-Aug-2023 12:43:26 Chrom Revision: 2.3 03-Aug-2023 16:11:04

Eurofins Cleveland

Data File:	\\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\13.D				
Injection Date:	09-Aug-2023 12:15:30	Instrument ID:	A4AG2	Operator ID:	
Lims ID:	240-189273-E-2-A	Lab Sample ID:	240-189273-2	Worklist Smp#:	13
Client ID:	16MW8				
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		

Column: 5% phenyl (0.18 mm)



8/12/2023
10:47 AM

Eurofins Cleveland
Recovery Report

Data File: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\13.D
Lims ID: 240-189273-E-2-A
Client ID: 16MW8
Sample Type: Client
Inject. Date: 09-Aug-2023 12:15:30 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 240-0132248-013
Misc. Info.: 240-189273-E-2-A
Operator ID: Instrument ID: A4AG2

Method: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\LVI AG2 8270.m
Limit Group: MSS 8270D ICAL
Last Update: 10-Aug-2023 12:37:20 Calib Date: 08-Aug-2023 12:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A4AG2\20230808-132200.b\10.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: KDZ4 Date: 10-Aug-2023 11:58:32

Compound	Amount Added	Amount Recovered	% Rec.
$ 7 2-Fluorophenol	1600.0	1380.7	86.29
$ 8 Phenol-d5	1600.0	975.8	60.99
$ 9 Nitrobenzene-d5	1600.0	1291.5	80.72
$ 10 2-Fluorobiphenyl (Surr)	1600.0	1203.3	75.21
$ 11 2,4,6-Tribromophenol	1600.0	959.8	59.98
$ 12 Terphenyl-d14	1600.0	1500.2	93.76

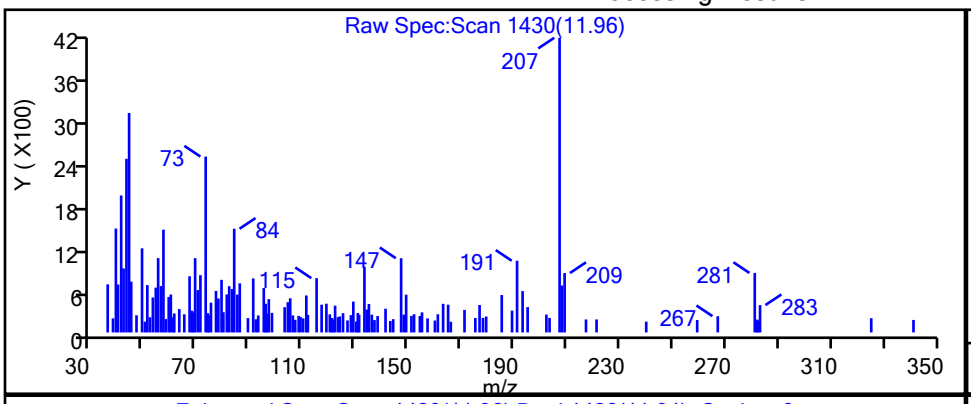
User Disabled Compound Report

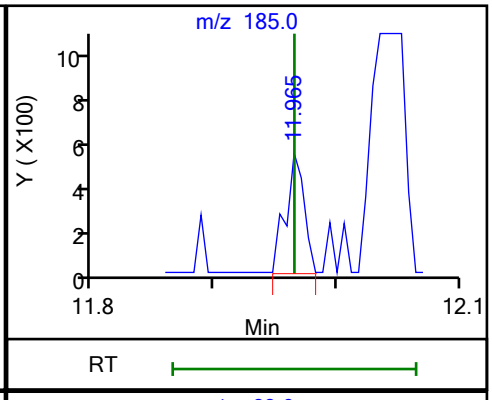
Eurofins Cleveland

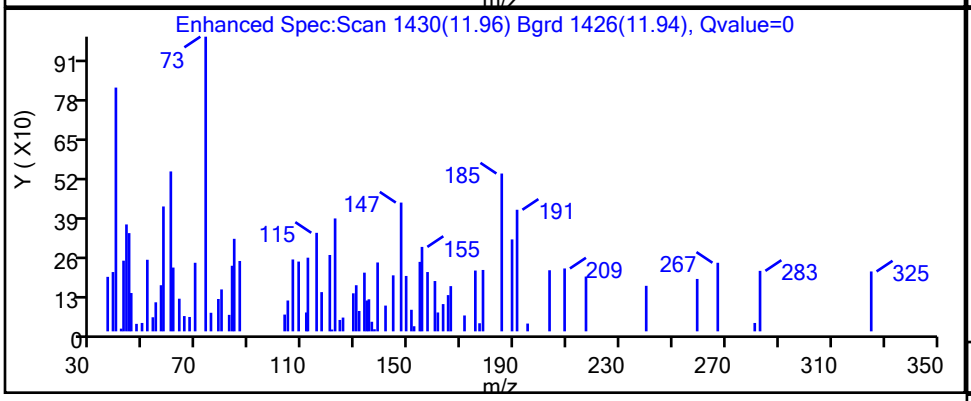
Data File:	\\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\13.D				
Injection Date:	09-Aug-2023 12:15:30	Instrument ID:	A4AG2		
Lims ID:	240-189273-E-2-A	Lab Sample ID:	240-189273-2		
Client ID:	16MW8				
Operator ID:		ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

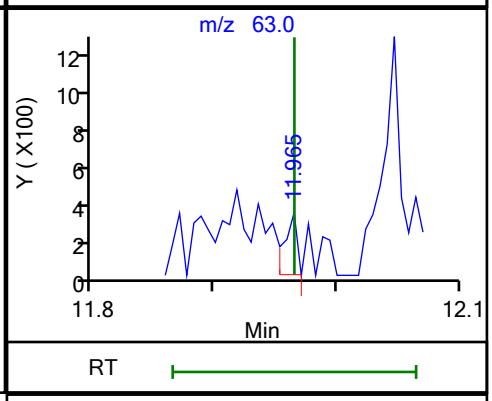
162 Aramite Peak 1, CAS: STL00690

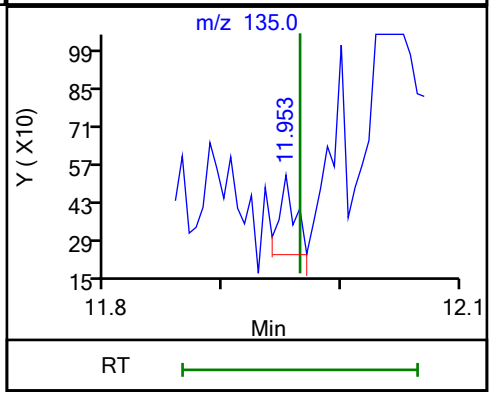
Processing Results











RT	Mass	Response	Amount
11.96	185.00	550	13.728680
11.96	63.00	235	
11.95	135.00	270	

Reviewer: KDZ4, 10-Aug-2023 11:58:07 -04:00:00 (UTC)

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

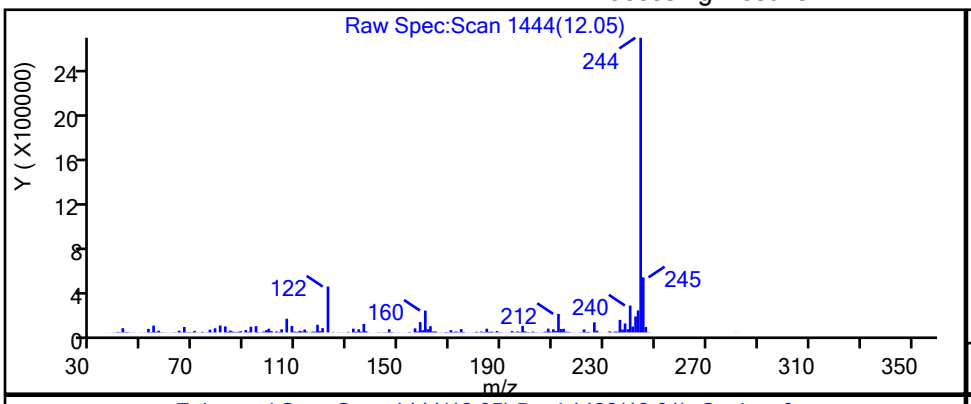
User Disabled Compound Report

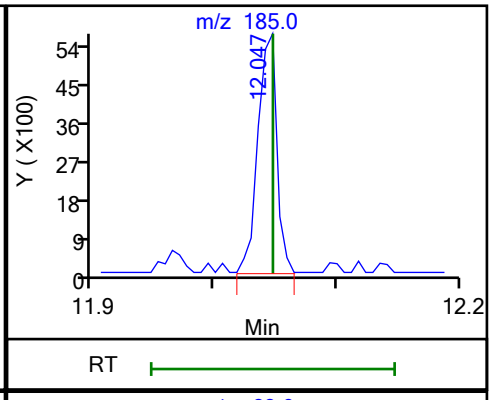
Eurofins Cleveland

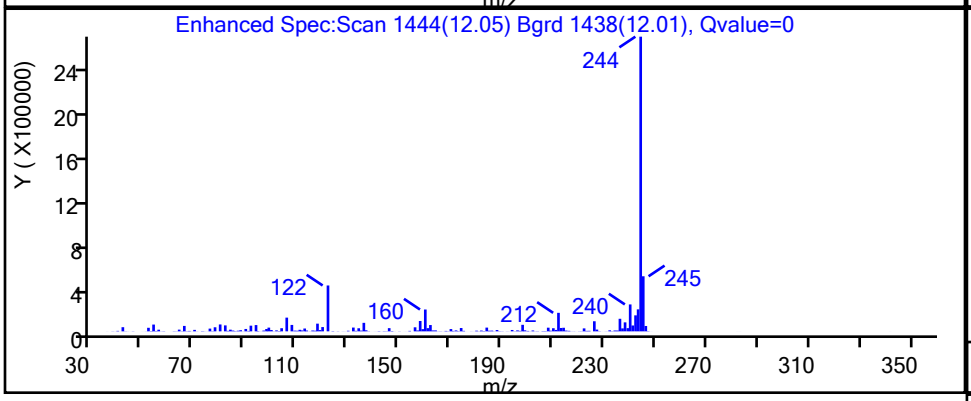
Data File:	\\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\13.D				
Injection Date:	09-Aug-2023 12:15:30	Instrument ID:	A4AG2		
Lims ID:	240-189273-E-2-A	Lab Sample ID:	240-189273-2		
Client ID:	16MW8				
Operator ID:		ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

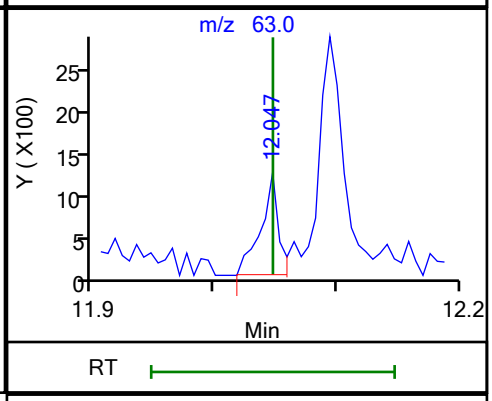
163 Aramite Peak 2, CAS: STL00691

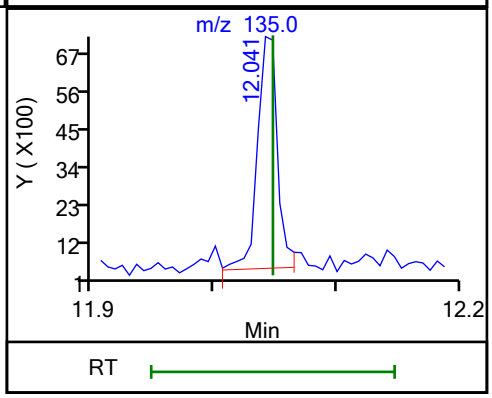
Processing Results











RT	Mass	Response	Amount
12.05	185.00	6130	31.759715
12.05	63.00	1267	
12.04	135.00	7742	

Reviewer: KDZ4, 10-Aug-2023 11:58:09 -04:00:00 (UTC)

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

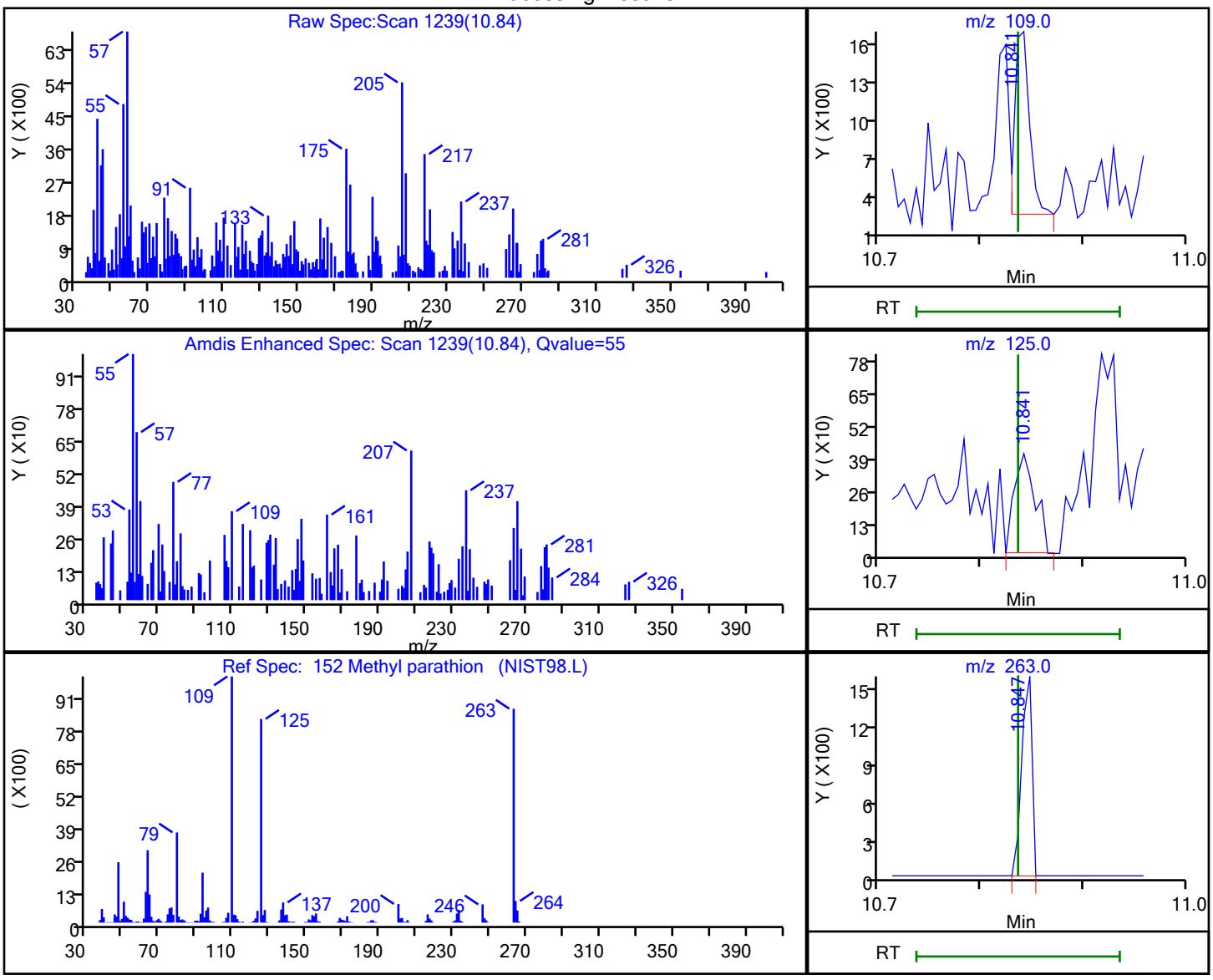
User Disabled Compound Report

Eurofins Cleveland

Data File:	\\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\13.D				
Injection Date:	09-Aug-2023 12:15:30	Instrument ID:	A4AG2		
Lims ID:	240-189273-E-2-A	Lab Sample ID:	240-189273-2		
Client ID:	16MW8				
Operator ID:		ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

152 Methyl parathion, CAS: 298-00-0

Processing Results



RT	Mass	Response	Amount
10.84	109.00	1385	37.288518
10.84	125.00	577	
10.85	263.00	1059	

Reviewer: KDZ4, 10-Aug-2023 11:58:02 -04:00:00 (UTC)

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

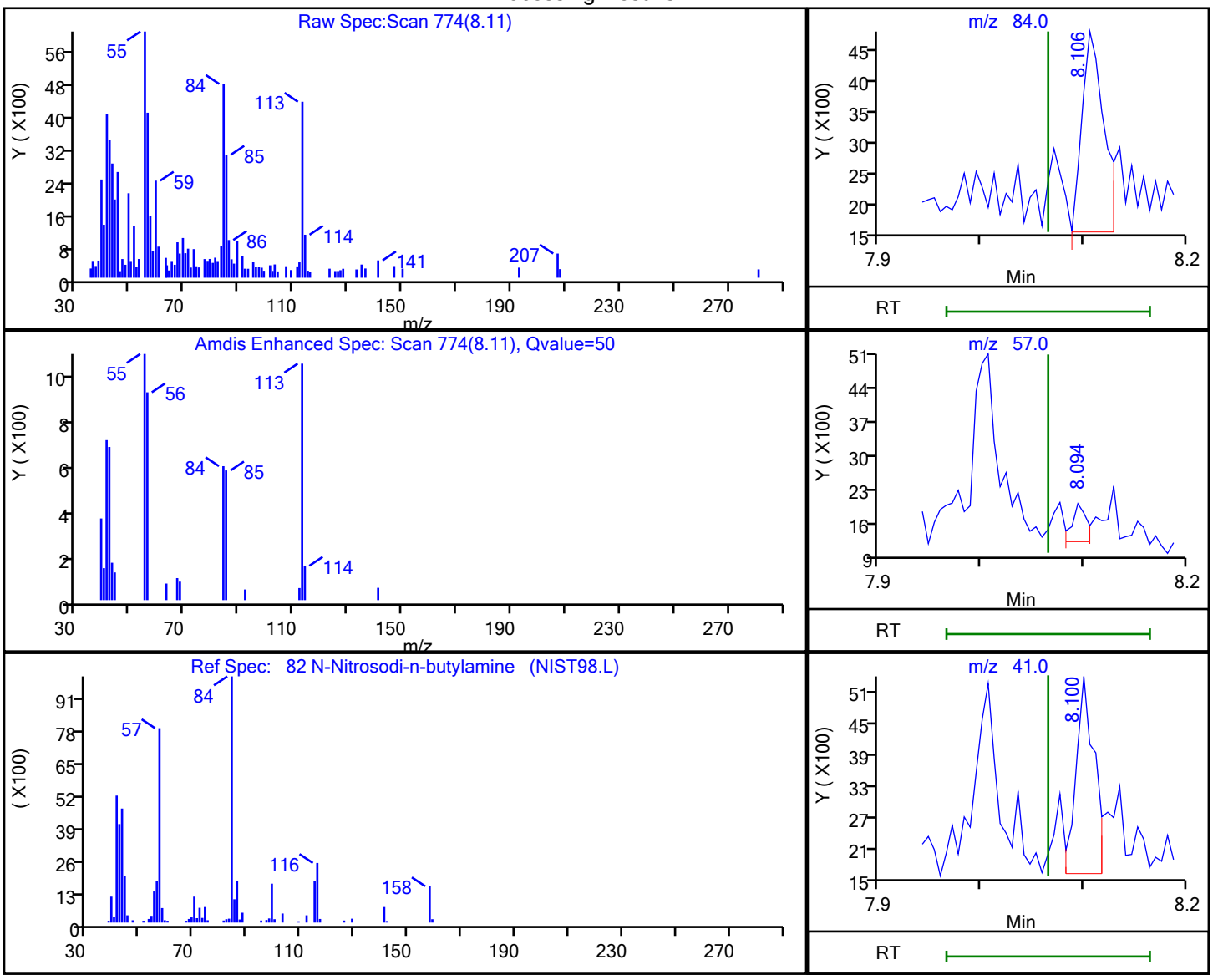
User Disabled Compound Report

Eurofins Cleveland

Data File:	\\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\13.D				
Injection Date:	09-Aug-2023 12:15:30	Instrument ID:	A4AG2		
Lims ID:	240-189273-E-2-A	Lab Sample ID:	240-189273-2		
Client ID:	16MW8				
Operator ID:		ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

82 N-Nitrosodi-n-butylamine, CAS: 924-16-3

Processing Results



RT	Mass	Response	Amount
8.11	84.00	4866	8.996369
8.09	57.00	788	
8.10	41.00	4776	

Reviewer: KDZ4, 10-Aug-2023 11:57:57 -04:00:00 (UTC)

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

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 240-189273-1

SDG No.:

Client Sample ID: 16MW9 | Lab Sample ID: 240-189273-3

Matrix: Water | Lab File ID: 14.D

Analysis Method: 8270E | Date Collected: 07/27/2023 11:25

Extract. Method: 3510C LVI | Date Extracted: 08/01/2023 08:59

Sample wt/vol: 270(mL) | Date Analyzed: 08/09/2023 12:38

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | GC Column: RXI-5SILMS/IIG ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 583312 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
99-35-4	1,3,5-Trinitrobenzene	9.3	U	9.3	2.8
130-15-4	1,4-Naphthoquinone	9.3	U	9.3	2.8
134-32-7	1-Naphthylamine	9.3	U	9.3	2.8
105-67-9	2,4-Dimethylphenol	9.3	U	9.3	2.8
51-28-5	2,4-Dinitrophenol	9.3	U	9.3	5.7
53-96-3	2-Acetylaminofluorene	9.3	U	9.3	2.8
91-59-8	2-Naphthylamine	9.3	U	9.3	6.5
109-06-8	2-Picoline	9.3	U	9.3	0.93
91-94-1	3,3'-Dichlorobenzidine	9.3	U	9.3	2.8
119-93-7	3,3'-Dimethylbenzidine	9.3	U	9.3	3.1
56-49-5	3-Methylcholanthrene	9.3	U	9.3	0.93
99-09-2	3-Nitroaniline	9.3	U	9.3	1.9
534-52-1	4,6-Dinitro-2-methylphenol	9.3	U	9.3	2.8
92-67-1	4-Aminobiphenyl	9.3	U	9.3	2.8
106-47-8	4-Chloroaniline	9.3	U	9.3	3.1
100-01-6	4-Nitroaniline	9.3	U	9.3	1.4
56-57-5	4-Nitroquinoline-1-oxide	46	U	46	4.6
57-97-6	7,12-Dimethylbenz(a)anthracene	9.3	U	9.3	1.7
98-86-2	Acetophenone	9.3	U	9.3	0.93
62-53-3	Aniline	9.3	U	9.3	1.0
140-57-8	Aramite, Total	9.3	U	9.3	3.4
100-51-6	Benzyl alcohol	9.3	U	9.3	2.8
111-91-1	Bis(2-chloroethoxy)methane	0.93	U	0.93	0.46
111-44-4	Bis(2-chloroethyl)ether	0.93	U	0.93	0.46
85-68-7	Butyl benzyl phthalate	9.3	U	9.3	0.65
510-15-6	Chlorobenzilate	9.3	U	9.3	2.8
84-74-2	Di-n-butyl phthalate	9.3	U	9.3	1.7
298-04-4	Disulfoton	9.3	U	9.3	2.8
56-38-2	Ethyl Parathion	9.3	U	9.3	2.8
52-85-7	Famphur	9.3	U	9.3	4.6
77-47-4	Hexachlorocyclopentadiene	9.3	U	9.3	2.8
67-72-1	Hexachloroethane	9.3	U	9.3	0.37

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 240-189273-1

SDG No.:

Client Sample ID: 16MW9 | Lab Sample ID: 240-189273-3

Matrix: Water | Lab File ID: 14.D

Analysis Method: 8270E | Date Collected: 07/27/2023 11:25

Extract. Method: 3510C LVI | Date Extracted: 08/01/2023 08:59

Sample wt/vol: 270(mL) | Date Analyzed: 08/09/2023 12:38

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | GC Column: RXI-5SILMS/IIG ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 583312 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
78-59-1	Isophorone	9.3	U	9.3	0.46
91-80-5	Methapyrilene	9.3	U	9.3	2.8
66-27-3	Methyl methanesulfonate	9.3	U	9.3	0.93
298-00-0	Methyl parathion	9.3	U	9.3	3.0
924-16-3	N-Nitrosodi-n-butylamine	9.3	U	9.3	2.8
621-64-7	N-Nitrosodi-n-propylamine	9.3	U	9.3	0.46
86-30-6	N-Nitrosodiphenylamine	9.3	U	9.3	0.54
10595-95-6	N-Nitrosomethylethylamine	9.3	U	9.3	0.93
930-55-2	N-Nitrosopyrrolidine	9.3	U	9.3	0.46
60-11-7	p-Dimethylamino azobenzene	9.3	U	9.3	2.8
106-50-3	p-Phenylene diamine	140	U *-	140	24
110-86-1	Pyridine	9.3	U	9.3	1.9
99-55-8	N-Nitro-o-toluidine	4.6	U	4.6	1.1
95-53-4	o-Toluidine	9.3	U	9.3	3.7
100-02-7	4-Nitrophenol	9.3	U	9.3	2.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14 (Surr)	95		31-140
4165-62-2	Phenol-d5 (Surr)	81		18-120
4165-60-0	Nitrobenzene-d5 (Surr)	80		13-120
367-12-4	2-Fluorophenol (Surr)	91		12-120
321-60-8	2-Fluorobiphenyl (Surr)	70		23-120
118-79-6	2,4,6-Tribromophenol (Surr)	64		10-126

Eurofins Cleveland
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\14.D
Lims ID: 240-189273-E-3-A
Client ID: 16MW9
Sample Type: Client
Inject. Date: 09-Aug-2023 12:38:30 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 240-0132248-014
Misc. Info.: 240-189273-E-3-A
Operator ID: Instrument ID: A4AG2

Method: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\LVI AG2 8270.m
Limit Group: MSS 8270D ICAL
Last Update: 10-Aug-2023 12:37:20 Calib Date: 08-Aug-2023 12:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A4AG2\20230808-132200.b\10.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: KDZ4 Date: 10-Aug-2023 12:15:01

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ml	Flags
*	1 1,4-Dichlorobenzene-d4	152	6.712	6.712	0.000	96	244146	400.0	
*	2 Naphthalene-d8	136	7.777	7.777	0.000	99	1020519	400.0	
*	3 Acenaphthene-d10	164	9.277	9.277	0.000	93	593783	400.0	
*	4 Phenanthrene-d10	188	10.565	10.565	0.000	97	965288	400.0	
*	5 Chrysene-d12	240	13.488	13.494	-0.006	98	667771	400.0	
*	6 Perylene-d12	264	15.853	15.865	-0.012	96	752998	400.0	
$	7 2-Fluorophenol	112	5.653	5.653	0.000	90	702242	1462.4	
$	8 Phenol-d5	99	6.371	6.371	0.000	0	1175119	1293.4	
$	9 Nitrobenzene-d5	82	7.159	7.159	0.000	86	1134156	1275.3	
$	10 2-Fluorobiphenyl (Surr)	172	8.665	8.665	0.000	100	2230813	1119.4	
$	11 2,4,6-Tribromophenol	330	9.959	9.953	0.006	92	196949	1031.5	
$	12 Terphenyl-d14	244	12.047	12.047	0.000	97	2905435	1513.0	
	28 Pyridine	79		4.548				ND	
	31 2-Picoline	93		5.183				ND	
	32 N-Nitrosomethylethylamine	88		5.254				ND	
	34 Methyl methanesulfonate	80		5.483				ND	
	44 Aniline	93		6.430				ND	
	45 Bis(2-chloroethyl)ether	93		6.453				ND	
	50 Benzyl alcohol	108		6.794				ND	
	56 N-Nitrosopyrrolidine	100		6.995				ND	
	57 N-Nitrosodi-n-propylamine	70		7.000				ND	
	58 Acetophenone	105		7.018				ND	U
	60 2-Toluidine	106		7.053				ND	
	61 Hexachloroethane	117		7.147				ND	
	64 Isophorone	82		7.359				ND	
	66 2,4-Dimethylphenol	107		7.441				ND	
	69 Bis(2-chloroethoxy)methane	93		7.506				ND	
	75 4-Chloroaniline	127		7.818				ND	
	82 N-Nitrosodi-n-butylamine	84		8.065				ND	
	84 p-Phenylene diamine	108		8.106				ND	
	89 Hexachlorocyclopentadiene	237		8.506				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ml	Flags
102 1,4-Naphthoquinone	158		8.930				ND	
109 3-Nitroaniline	138		9.212				ND	
110 2,4-Dinitrophenol	184		9.288				ND	
112 4-Nitrophenol	109		9.330				ND	
117 1-Naphthylamine	143		9.512				ND	
119 2-Naphthylamine	143		9.577				ND	
123 N-Nitro-o-toluidine	152		9.736				ND	U
125 4-Nitroaniline	138		9.741				ND	
127 4,6-Dinitro-2-methylphenol	198		9.753				ND	
128 N-Nitrosodiphenylamine	169	9.812	9.806	0.006	95	16835	11.1	
133 1,3,5-Trinitrobenzene	213		10.000				ND	
142 4-Aminobiphenyl	169		10.365				ND	
146 Disulfoton	88		10.494				ND	U
152 Methyl parathion	109		10.836				ND	
154 Di-n-butyl phthalate	149	10.971	10.971	0.000	100	111511	33.4	
155 Ethyl Parathion	97		11.171				ND	
156 4-Nitroquinoline-1-oxide	190		11.259				ND	
157 Methapyrilene	58		11.283				ND	
162 Aramite Peak 1	185		11.965				ND	U
163 Aramite Peak 2	185		12.047				ND	U
164 p-Dimethylamino azobenzene	225		12.206				ND	
165 Chlorobenzilate	139		12.235				ND	
168 Famphur	218		12.541				ND	
169 Butyl benzyl phthalate	149		12.576				ND	
170 3,3'-Dimethylbenzidine	212		12.618				ND	
172 2-Acetylaminofluorene	181		12.971				ND	
177 3,3'-Dichlorobenzidine	252		13.382				ND	
182 7,12-Dimethylbenz(a)anthracene	256		15.176				ND	
186 3-Methylcholanthrene	268		16.370				ND	
S 196 Aramite, Total	185		7.898				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

SMIS80PPMW_00027 Amount Added: 5.00 Units: uL Run Reagent

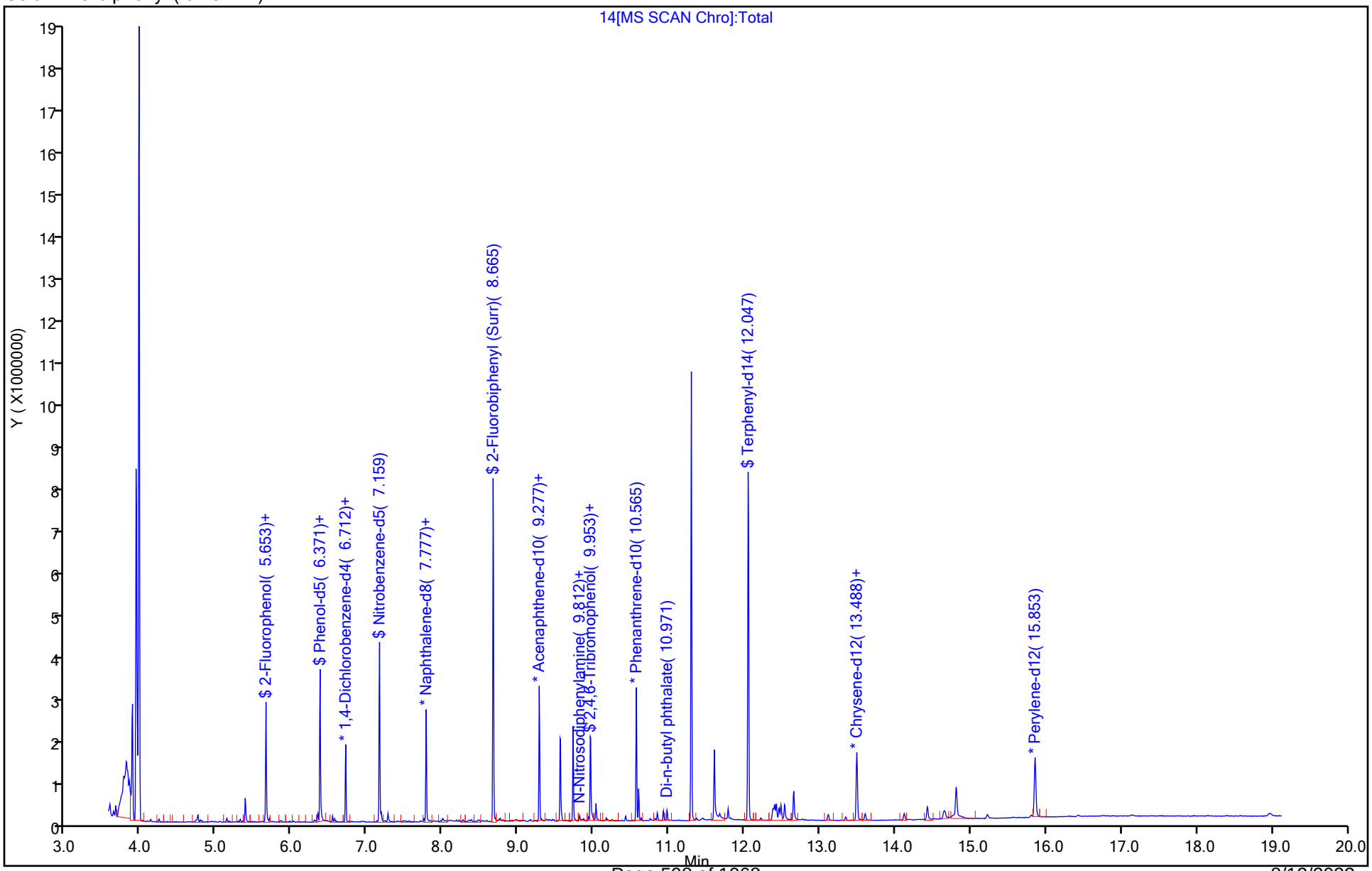
Report Date: 10-Aug-2023 12:43:28 Chrom Revision: 2.3 03-Aug-2023 16:11:04

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\14.D

Injection Date:	09-Aug-2023 12:38:30	Instrument ID:	A4AG2	Operator ID:	
Lims ID:	240-189273-E-3-A	Lab Sample ID:	240-189273-3	Worklist Smp#:	14
Client ID:	16MW9				
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		

Column: 5% phenyl (0.18 mm)



8/12/2023
10:47 AM

Eurofins Cleveland
Recovery Report

Data File: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\14.D
Lims ID: 240-189273-E-3-A
Client ID: 16MW9
Sample Type: Client
Inject. Date: 09-Aug-2023 12:38:30 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 240-0132248-014
Misc. Info.: 240-189273-E-3-A
Operator ID: Instrument ID: A4AG2

Method: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\LVI AG2 8270.m
Limit Group: MSS 8270D ICAL
Last Update: 10-Aug-2023 12:37:20 Calib Date: 08-Aug-2023 12:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A4AG2\20230808-132200.b\10.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: KDZ4 Date: 10-Aug-2023 12:15:01

Compound	Amount Added	Amount Recovered	% Rec.
$ 7 2-Fluorophenol	1600.0	1462.4	91.40
$ 8 Phenol-d5	1600.0	1293.4	80.84
$ 9 Nitrobenzene-d5	1600.0	1275.3	79.71
$ 10 2-Fluorobiphenyl (Surr)	1600.0	1119.4	69.97
$ 11 2,4,6-Tribromophenol	1600.0	1031.5	64.47
$ 12 Terphenyl-d14	1600.0	1513.0	94.56

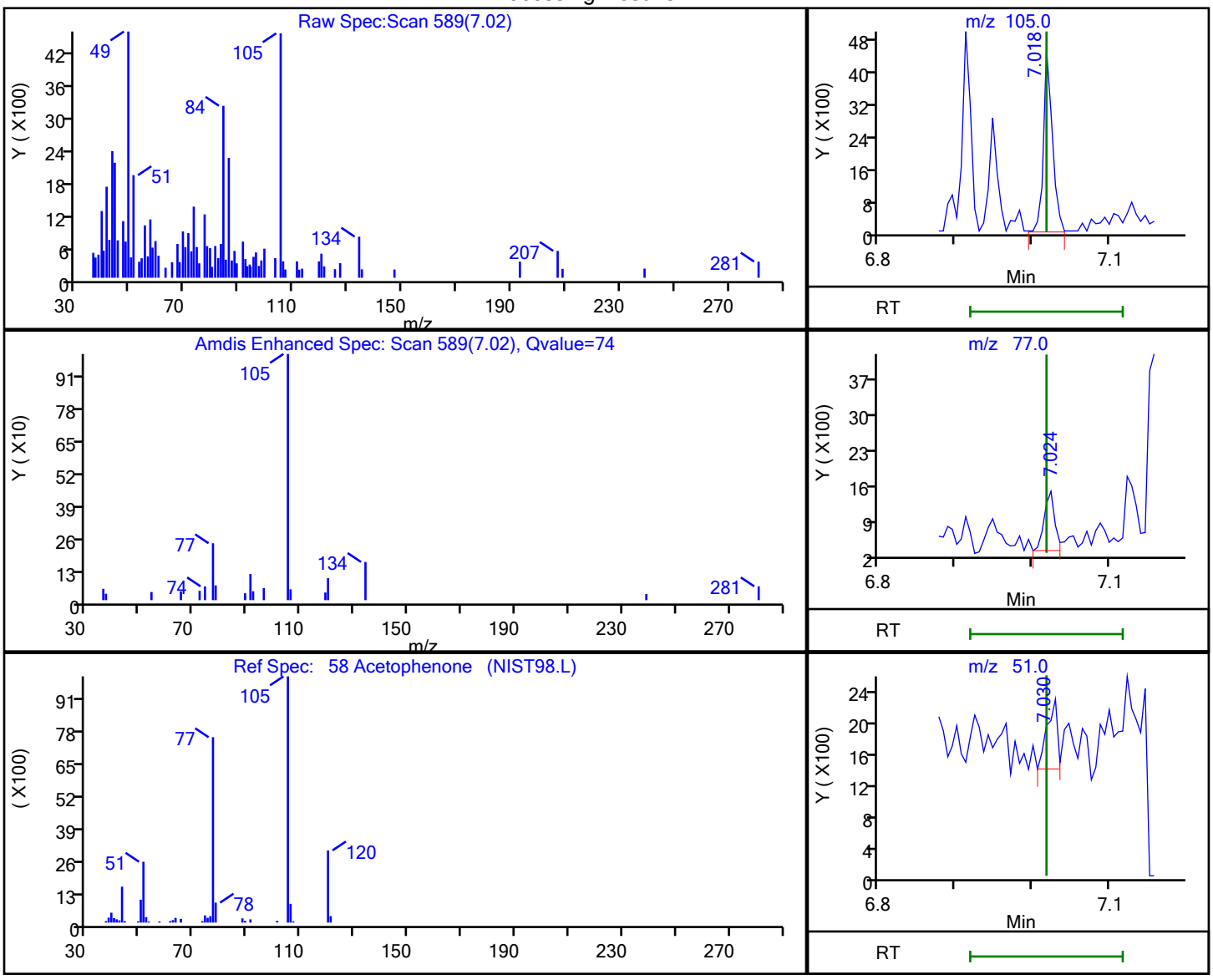
User Disabled Compound Report

Eurofins Cleveland

Data File:	\\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\14.D				
Injection Date:	09-Aug-2023 12:38:30	Instrument ID:	A4AG2		
Lims ID:	240-189273-E-3-A	Lab Sample ID:	240-189273-3		
Client ID:	16MW9				
Operator ID:		ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

58 Acetophenone, CAS: 98-86-2

Processing Results



RT	Mass	Response	Amount
7.02	105.00	3660	2.860846
7.02	77.00	1133	
7.03	51.00	833	

Reviewer: KDZ4, 10-Aug-2023 12:14:34 -04:00:00 (UTC)

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

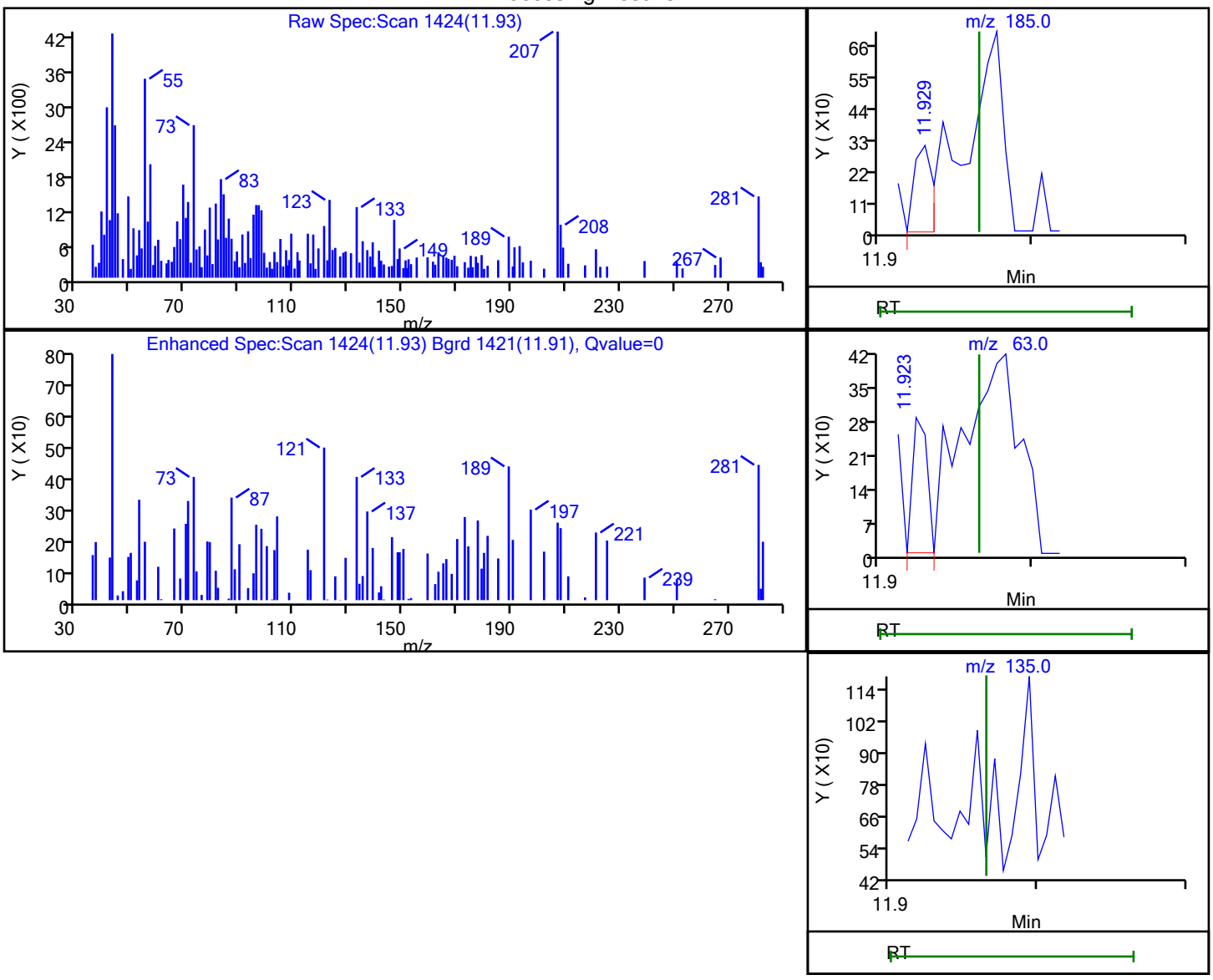
User Disabled Compound Report

Eurofins Cleveland

Data File:	\\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\14.D				
Injection Date:	09-Aug-2023 12:38:30	Instrument ID:	A4AG2		
Lims ID:	240-189273-E-3-A	Lab Sample ID:	240-189273-3		
Client ID:	16MW9				
Operator ID:		ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

162 Aramite Peak 1, CAS: STL00690

Processing Results



RT	Mass	Response	Amount
11.93	185.00	255	12.544898
11.92	63.00	188	
11.92	135.00	518	

Reviewer: KDZ4, 10-Aug-2023 12:14:48 -04:00:00 (UTC)

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

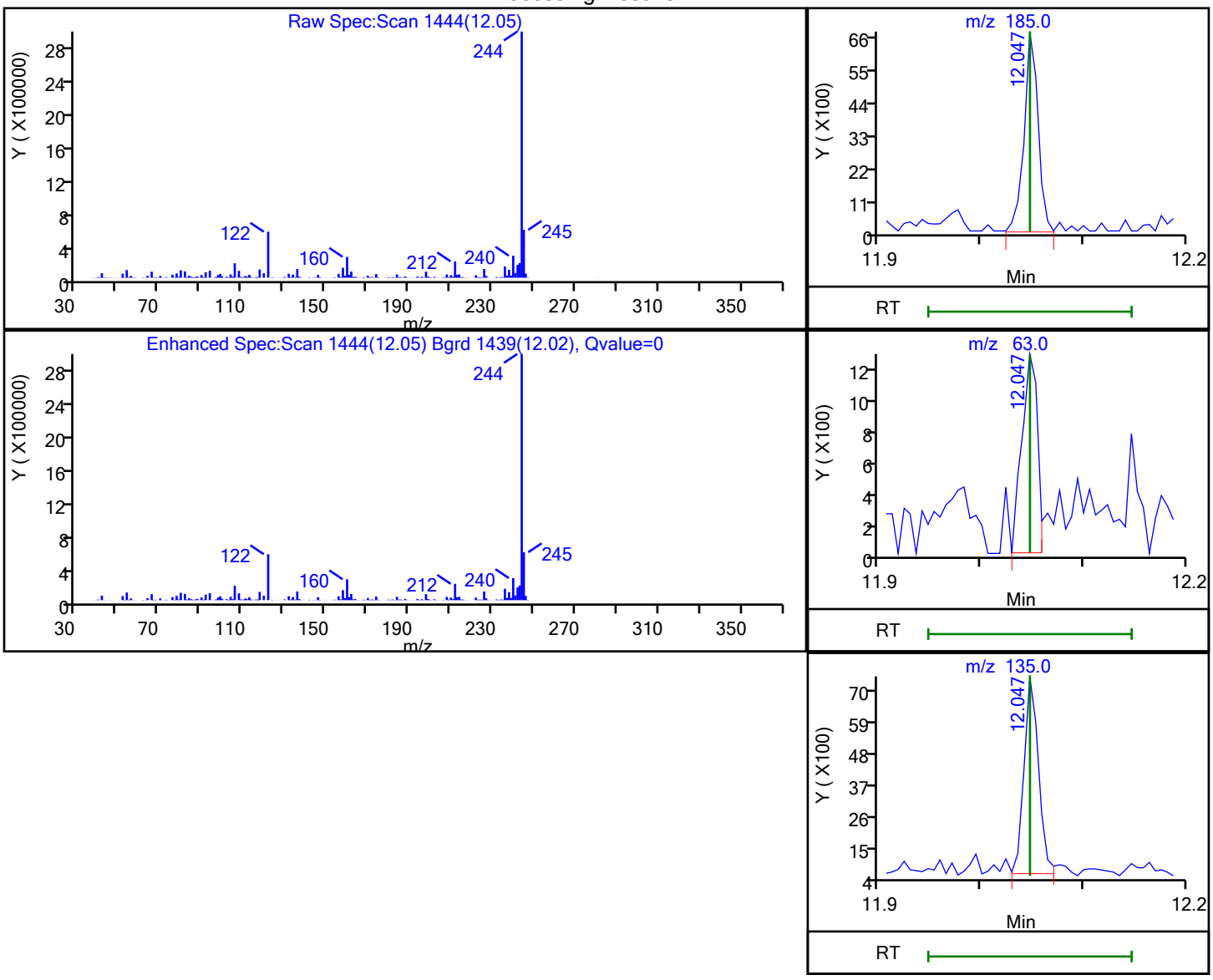
User Disabled Compound Report

Eurofins Cleveland

Data File:	\\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\14.D				
Injection Date:	09-Aug-2023 12:38:30	Instrument ID:	A4AG2		
Lims ID:	240-189273-E-3-A	Lab Sample ID:	240-189273-3		
Client ID:	16MW9				
Operator ID:		ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

163 Aramite Peak 2, CAS: STL00691

Processing Results



RT	Mass	Response	Amount
12.05	185.00	6345	32.472376
12.05	63.00	1354	
12.05	135.00	6890	

Reviewer: KDZ4, 10-Aug-2023 12:14:50 -04:00:00 (UTC)

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

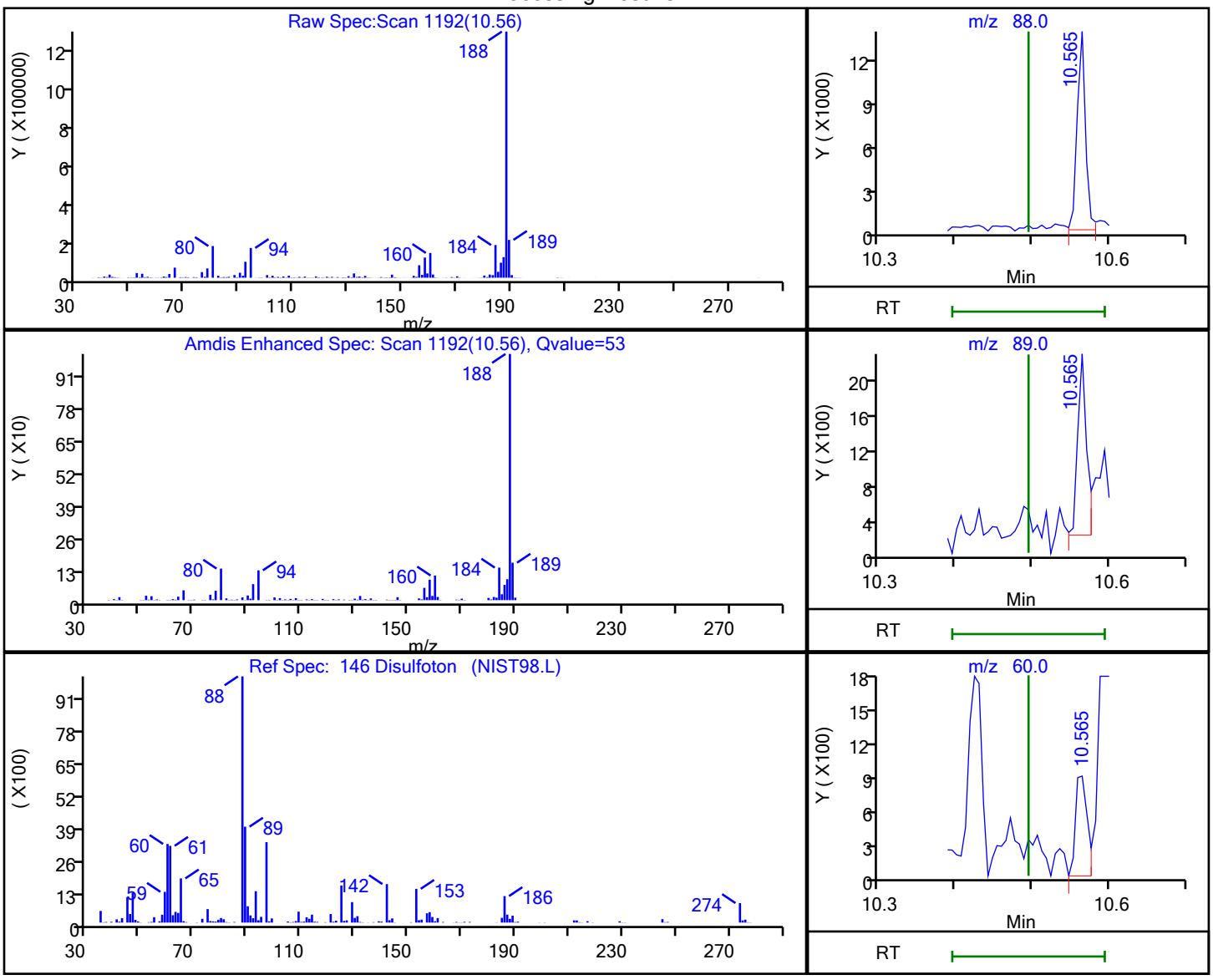
User Disabled Compound Report

Eurofins Cleveland

Data File:	\\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\14.D				
Injection Date:	09-Aug-2023 12:38:30	Instrument ID:	A4AG2		
Lims ID:	240-189273-E-3-A	Lab Sample ID:	240-189273-3		
Client ID:	16MW9				
Operator ID:		ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

146 Disulfoton, CAS: 298-04-4

Processing Results



RT	Mass	Response	Amount
10.56	88.00	10445	9.351041
10.56	89.00	1683	
10.56	60.00	977	

Reviewer: KDZ4, 10-Aug-2023 12:14:43 -04:00:00 (UTC)

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

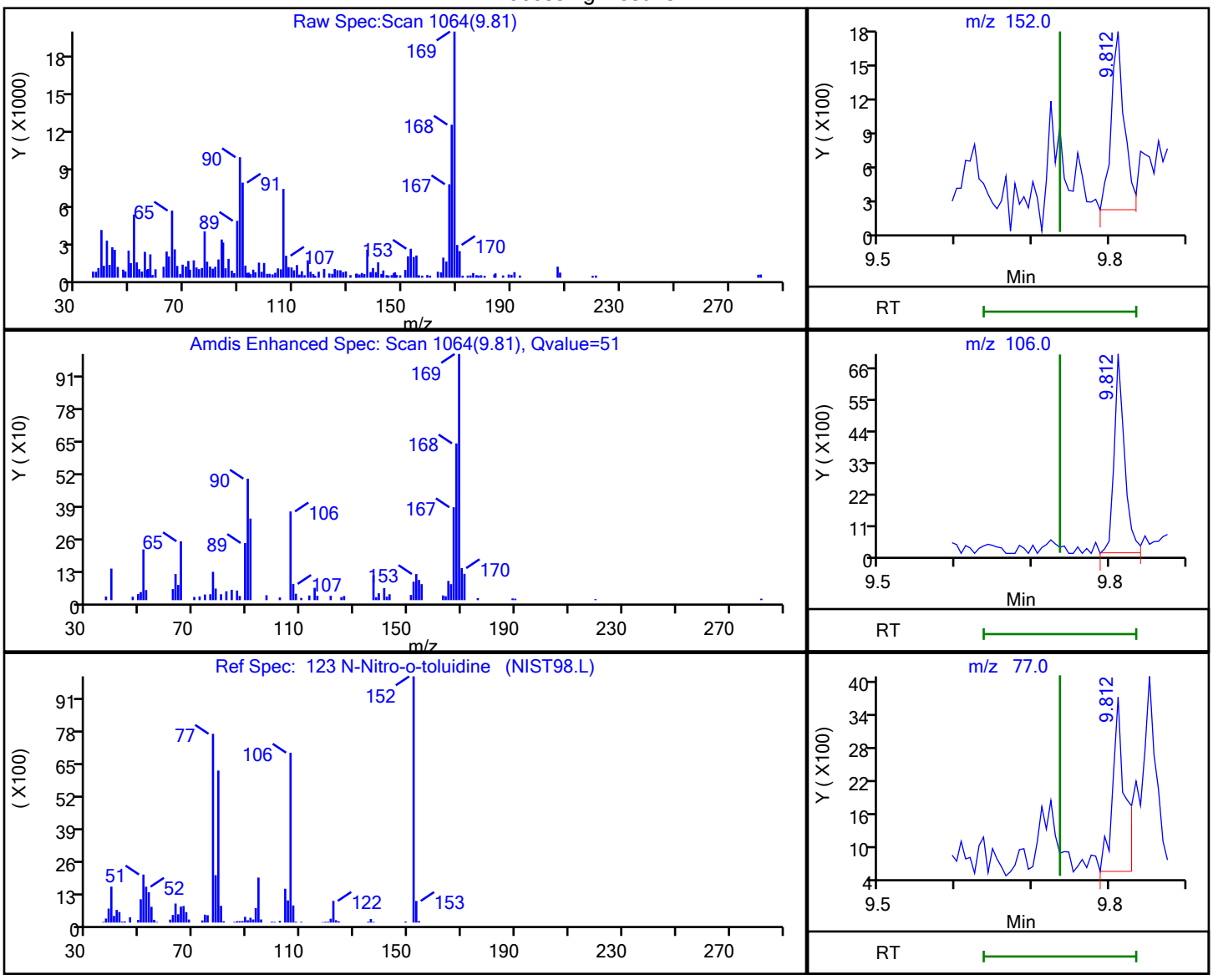
User Disabled Compound Report

Eurofins Cleveland

Data File:	\\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\14.D				
Injection Date:	09-Aug-2023 12:38:30	Instrument ID:	A4AG2		
Lims ID:	240-189273-E-3-A	Lab Sample ID:	240-189273-3		
Client ID:	16MW9				
Operator ID:		ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

123 N-Nitro-o-toluidine, CAS: 99-55-8

Processing Results



RT	Mass	Response	Amount
9.81	152.00	1812	3.582905
9.81	106.00	6687	
9.81	77.00	3509	

Reviewer: KDZ4, 10-Aug-2023 12:14:39 -04:00:00 (UTC)

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

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 240-189273-1

SDG No.:

Client Sample ID: 16WC1A | Lab Sample ID: 240-189273-4

Matrix: Water | Lab File ID: 17.D

Analysis Method: 8270E | Date Collected: 07/27/2023 09:55

Extract. Method: 3510C LVI | Date Extracted: 08/01/2023 08:59

Sample wt/vol: 270(mL) | Date Analyzed: 08/09/2023 13:48

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | GC Column: RXI-5SILMS/IIG ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 583312 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
99-35-4	1,3,5-Trinitrobenzene	9.3	U	9.3	2.8
130-15-4	1,4-Naphthoquinone	9.3	U	9.3	2.8
134-32-7	1-Naphthylamine	9.3	U	9.3	2.8
105-67-9	2,4-Dimethylphenol	9.3	U	9.3	2.8
51-28-5	2,4-Dinitrophenol	9.3	U	9.3	5.7
53-96-3	2-Acetylaminofluorene	9.3	U	9.3	2.8
91-59-8	2-Naphthylamine	9.3	U	9.3	6.5
109-06-8	2-Picoline	9.3	U	9.3	0.93
91-94-1	3,3'-Dichlorobenzidine	9.3	U	9.3	2.8
119-93-7	3,3'-Dimethylbenzidine	9.3	U	9.3	3.1
56-49-5	3-Methylcholanthrene	9.3	U	9.3	0.93
99-09-2	3-Nitroaniline	9.3	U	9.3	1.9
534-52-1	4,6-Dinitro-2-methylphenol	9.3	U	9.3	2.8
92-67-1	4-Aminobiphenyl	9.3	U	9.3	2.8
106-47-8	4-Chloroaniline	9.3	U F2	9.3	3.1
100-01-6	4-Nitroaniline	9.3	U	9.3	1.4
56-57-5	4-Nitroquinoline-1-oxide	46	U	46	4.6
57-97-6	7,12-Dimethylbenz(a)anthracene	9.3	U	9.3	1.7
98-86-2	Acetophenone	9.3	U	9.3	0.93
62-53-3	Aniline	9.3	U F2	9.3	1.0
140-57-8	Aramite, Total	9.3	U	9.3	3.4
100-51-6	Benzyl alcohol	9.3	U	9.3	2.8
111-91-1	Bis(2-chloroethoxy)methane	0.93	U	0.93	0.46
111-44-4	Bis(2-chloroethyl)ether	0.93	U	0.93	0.46
85-68-7	Butyl benzyl phthalate	9.3	U	9.3	0.65
510-15-6	Chlorobenzilate	9.3	U	9.3	2.8
84-74-2	Di-n-butyl phthalate	9.3	U	9.3	1.7
298-04-4	Disulfoton	9.3	U	9.3	2.8
56-38-2	Ethyl Parathion	9.3	U	9.3	2.8
52-85-7	Famphur	9.3	U	9.3	4.6
77-47-4	Hexachlorocyclopentadiene	9.3	U	9.3	2.8
67-72-1	Hexachloroethane	9.3	U	9.3	0.37

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 240-189273-1

SDG No.:

Client Sample ID: 16WC1A | Lab Sample ID: 240-189273-4

Matrix: Water | Lab File ID: 17.D

Analysis Method: 8270E | Date Collected: 07/27/2023 09:55

Extract. Method: 3510C LVI | Date Extracted: 08/01/2023 08:59

Sample wt/vol: 270(mL) | Date Analyzed: 08/09/2023 13:48

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | GC Column: RXI-5SILMS/IIG ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 583312 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
78-59-1	Isophorone	9.3	U	9.3	0.46
91-80-5	Methapyrilene	9.3	U	9.3	2.8
66-27-3	Methyl methanesulfonate	9.3	U	9.3	0.93
298-00-0	Methyl parathion	9.3	U	9.3	3.0
924-16-3	N-Nitrosodi-n-butylamine	9.3	U	9.3	2.8
621-64-7	N-Nitrosodi-n-propylamine	9.3	U	9.3	0.46
86-30-6	N-Nitrosodiphenylamine	9.3	U	9.3	0.54
10595-95-6	N-Nitrosomethylethylamine	9.3	U	9.3	0.93
930-55-2	N-Nitrosopyrrolidine	9.3	U	9.3	0.46
60-11-7	p-Dimethylamino azobenzene	9.3	U	9.3	2.8
106-50-3	p-Phenylene diamine	140	U *-	140	24
110-86-1	Pyridine	9.3	U F2	9.3	1.9
99-55-8	N-Nitro-o-toluidine	4.6	U	4.6	1.1
95-53-4	o-Toluidine	9.3	U	9.3	3.7
100-02-7	4-Nitrophenol	9.3	U	9.3	2.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14 (Surr)	93		31-140
4165-62-2	Phenol-d5 (Surr)	60		18-120
4165-60-0	Nitrobenzene-d5 (Surr)	80		13-120
367-12-4	2-Fluorophenol (Surr)	47		12-120
321-60-8	2-Fluorobiphenyl (Surr)	73		23-120
118-79-6	2,4,6-Tribromophenol (Surr)	44		10-126

Eurofins Cleveland
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\17.D
Lims ID: 240-189273-K-4-A
Client ID: 16WC1A
Sample Type: Client
Inject. Date: 09-Aug-2023 13:48:30 ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 240-0132248-017
Misc. Info.: 240-189273-K-4-A
Operator ID: Instrument ID: A4AG2

Method: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\LVI AG2 8270.m
Limit Group: MSS 8270D ICAL
Last Update: 10-Aug-2023 12:37:20 Calib Date: 08-Aug-2023 12:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A4AG2\20230808-132200.b\10.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: KDZ4 Date: 10-Aug-2023 12:17:47

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ml	Flags
*	1 1,4-Dichlorobenzene-d4	152	6.706	6.712	-0.006	96	260644	400.0	
*	2 Naphthalene-d8	136	7.777	7.777	0.000	99	1142713	400.0	
*	3 Acenaphthene-d10	164	9.277	9.277	0.000	92	578739	400.0	
*	4 Phenanthrene-d10	188	10.565	10.565	0.000	97	984583	400.0	
*	5 Chrysene-d12	240	13.488	13.494	-0.006	98	673253	400.0	
*	6 Perylene-d12	264	15.853	15.865	-0.012	96	769314	400.0	
$	7 2-Fluorophenol	112	5.648	5.653	-0.005	92	383243	747.6	
$	8 Phenol-d5	99	6.365	6.371	-0.006	0	928054	956.8	
$	9 Nitrobenzene-d5	82	7.153	7.159	-0.006	87	1279516	1284.9	
$	10 2-Fluorobiphenyl (Surr)	172	8.665	8.665	0.000	100	2259919	1163.5	
$	11 2,4,6-Tribromophenol	330	9.953	9.953	0.000	90	129977	709.3	
$	12 Terphenyl-d14	244	12.047	12.047	0.000	97	2872437	1483.6	
	28 Pyridine	79		4.548				ND	
	31 2-Picoline	93		5.183				ND	
	32 N-Nitrosomethylethylamine	88		5.254				ND	
	34 Methyl methanesulfonate	80		5.483				ND	
	44 Aniline	93		6.430				ND	
	45 Bis(2-chloroethyl)ether	93		6.453				ND	
	50 Benzyl alcohol	108		6.794				ND	
	56 N-Nitrosopyrrolidine	100		6.995				ND	
	57 N-Nitrosodi-n-propylamine	70		7.000				ND	
	58 Acetophenone	105		7.018				ND	U
	60 2-Toluidine	106		7.053				ND	
	61 Hexachloroethane	117		7.147				ND	
	64 Isophorone	82		7.359				ND	
	66 2,4-Dimethylphenol	107		7.441				ND	
	69 Bis(2-chloroethoxy)methane	93		7.506				ND	
	75 4-Chloroaniline	127		7.818				ND	U
	82 N-Nitrosodi-n-butylamine	84		8.065				ND	
	84 p-Phenylene diamine	108		8.106				ND	
	89 Hexachlorocyclopentadiene	237		8.506				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ml	Flags
102 1,4-Naphthoquinone	158		8.930				ND	
109 3-Nitroaniline	138		9.212				ND	
110 2,4-Dinitrophenol	184		9.288				ND	
112 4-Nitrophenol	109		9.330				ND	
117 1-Naphthylamine	143		9.512				ND	
119 2-Naphthylamine	143		9.577				ND	
123 N-Nitro-o-toluidine	152		9.736				ND	
125 4-Nitroaniline	138		9.741				ND	
127 4,6-Dinitro-2-methylphenol	198		9.753				ND	
128 N-Nitrosodiphenylamine	169		9.806				ND	U
133 1,3,5-Trinitrobenzene	213		10.000				ND	
142 4-Aminobiphenyl	169		10.365				ND	
146 Disulfoton	88		10.494				ND	U
152 Methyl parathion	109		10.836				ND	U
154 Di-n-butyl phthalate	149		10.971				ND	U
155 Ethyl Parathion	97		11.171				ND	U
156 4-Nitroquinoline-1-oxide	190		11.259				ND	
157 Methapyrilene	58		11.283				ND	
162 Aramite Peak 1	185		11.965				ND	U
163 Aramite Peak 2	185		12.047				ND	U
164 p-Dimethylamino azobenzene	225		12.206				ND	
165 Chlorobenzilate	139		12.235				ND	
168 Famphur	218		12.541				ND	
169 Butyl benzyl phthalate	149		12.576				ND	
170 3,3'-Dimethylbenzidine	212		12.618				ND	
172 2-Acetylaminofluorene	181		12.971				ND	
177 3,3'-Dichlorobenzidine	252		13.382				ND	
182 7,12-Dimethylbenz(a)anthracene	256		15.176				ND	
186 3-Methylcholanthrene	268		16.370				ND	
S 196 Aramite, Total	185		7.898				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

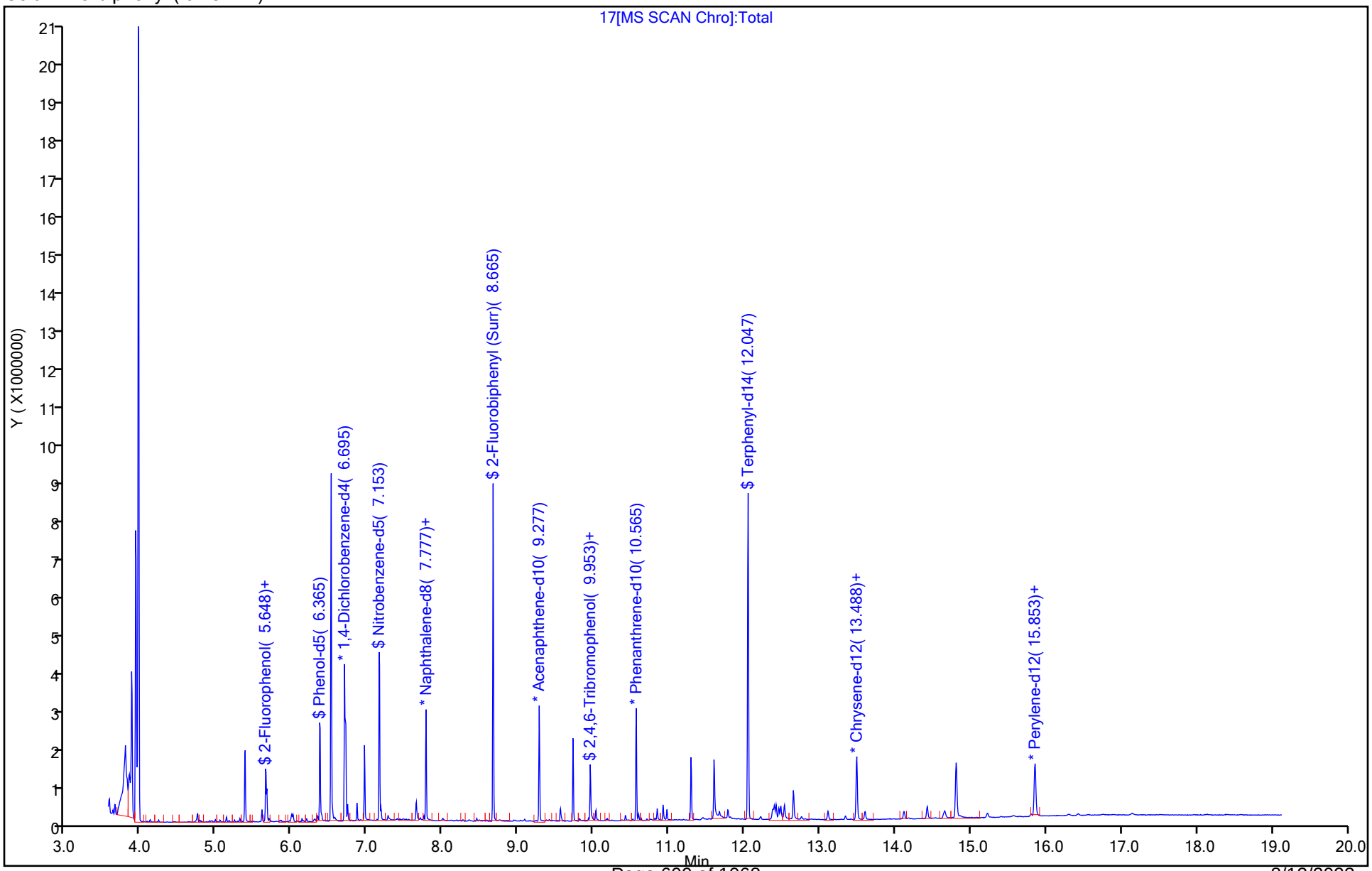
SMIS80PPMW_00027 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 10-Aug-2023 12:43:35 Chrom Revision: 2.3 03-Aug-2023 16:11:04

Eurofins Cleveland

Data File:	\\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\17.D				
Injection Date:	09-Aug-2023 13:48:30	Instrument ID:	A4AG2	Operator ID:	
Lims ID:	240-189273-K-4-A	Lab Sample ID:	240-189273-4	Worklist Smp#:	17
Client ID:	16WC1A				
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		

Column: 5% phenyl (0.18 mm)



8/12/2023
10:47 AM

Eurofins Cleveland
Recovery Report

Data File: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\17.D
Lims ID: 240-189273-K-4-A
Client ID: 16WC1A
Sample Type: Client
Inject. Date: 09-Aug-2023 13:48:30 ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 240-0132248-017
Misc. Info.: 240-189273-K-4-A
Operator ID: Instrument ID: A4AG2

Method: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\LVI AG2 8270.m
Limit Group: MSS 8270D ICAL
Last Update: 10-Aug-2023 12:37:20 Calib Date: 08-Aug-2023 12:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A4AG2\20230808-132200.b\10.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: KDZ4 Date: 10-Aug-2023 12:17:47

Compound	Amount Added	Amount Recovered	% Rec.
$ 7 2-Fluorophenol	1600.0	747.6	46.72
$ 8 Phenol-d5	1600.0	956.8	59.80
$ 9 Nitrobenzene-d5	1600.0	1284.9	80.31
$ 10 2-Fluorobiphenyl (Surr)	1600.0	1163.5	72.72
$ 11 2,4,6-Tribromophenol	1600.0	709.3	44.33
$ 12 Terphenyl-d14	1600.0	1483.6	92.73

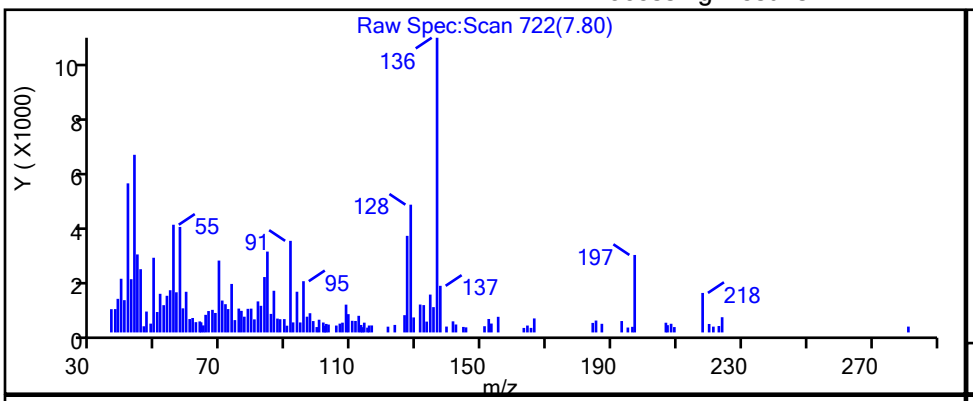
User Disabled Compound Report

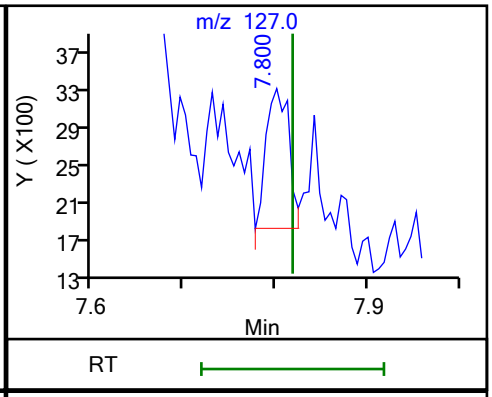
Eurofins Cleveland

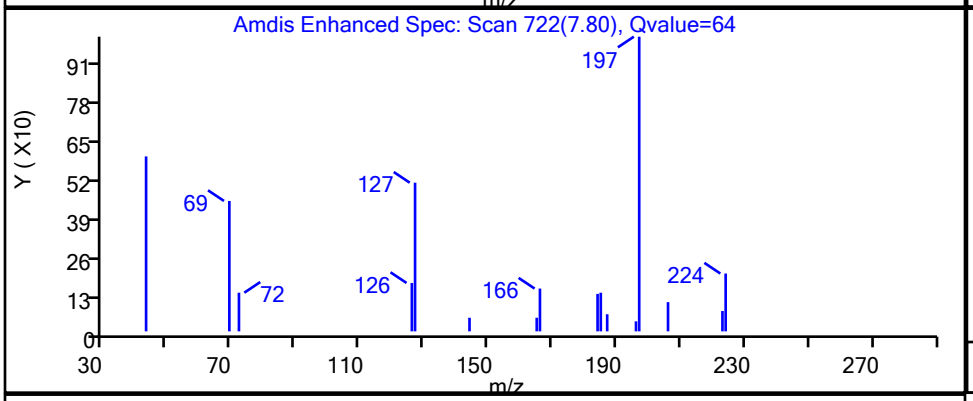
Data File:	\\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\17.D				
Injection Date:	09-Aug-2023 13:48:30	Instrument ID:	A4AG2		
Lims ID:	240-189273-K-4-A	Lab Sample ID:	240-189273-4		
Client ID:	16WC1A				
Operator ID:		ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

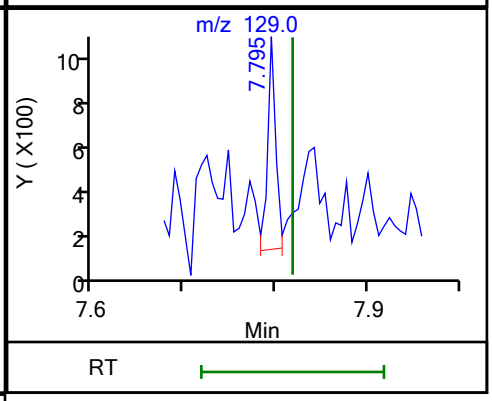
75 4-Chloroaniline, CAS: 106-47-8

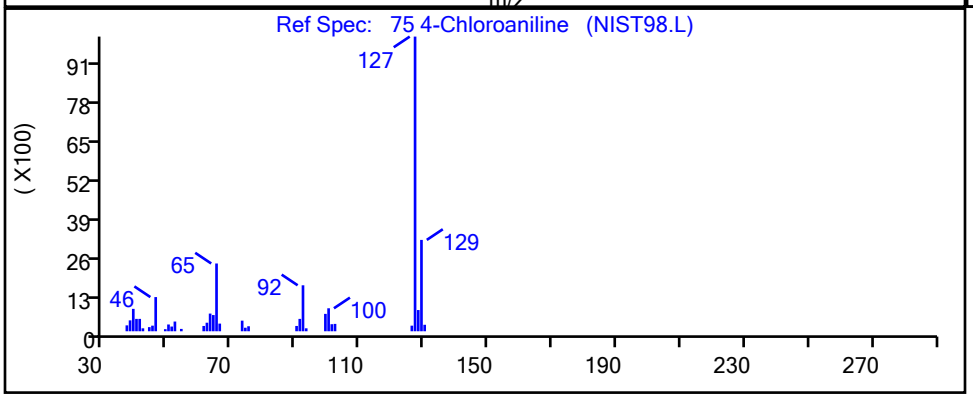
Processing Results











RT	Mass	Response	Amount
7.80	127.00	2632	2.346697
7.79	129.00	608	

Reviewer: KDZ4, 10-Aug-2023 12:17:15 -04:00:00 (UTC)

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

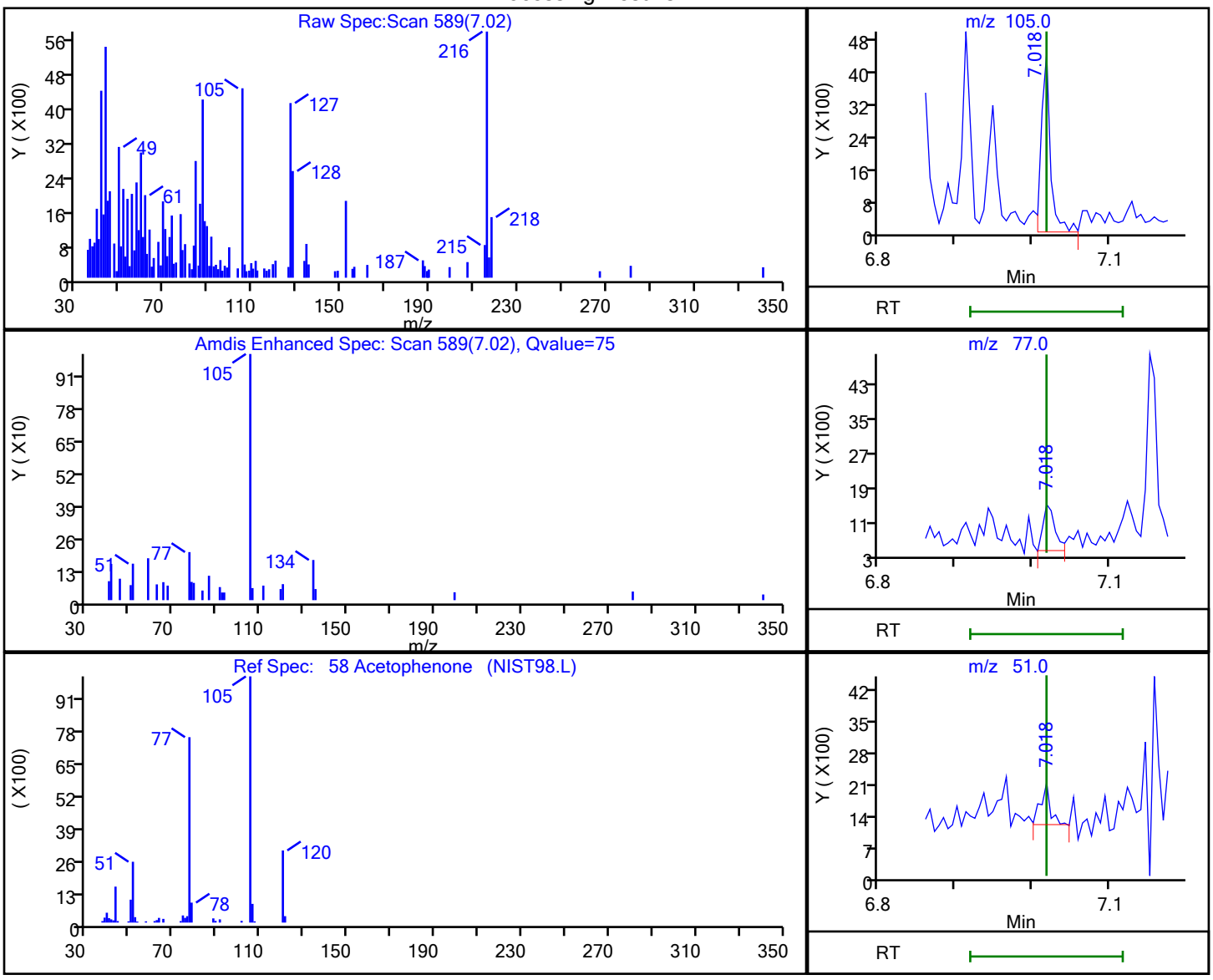
User Disabled Compound Report

Eurofins Cleveland

Data File:	\\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\17.D				
Injection Date:	09-Aug-2023 13:48:30	Instrument ID:	A4AG2		
Lims ID:	240-189273-K-4-A	Lab Sample ID:	240-189273-4		
Client ID:	16WC1A				
Operator ID:		ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

58 Acetophenone, CAS: 98-86-2

Processing Results



RT	Mass	Response	Amount
7.02	105.00	3579	2.620457
7.02	77.00	1173	
7.02	51.00	867	

Reviewer: KDZ4, 10-Aug-2023 12:17:11 -04:00:00 (UTC)

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

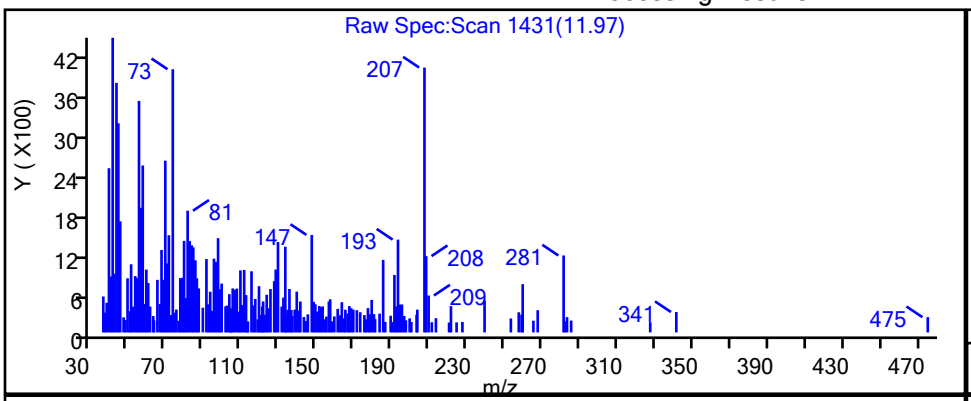
User Disabled Compound Report

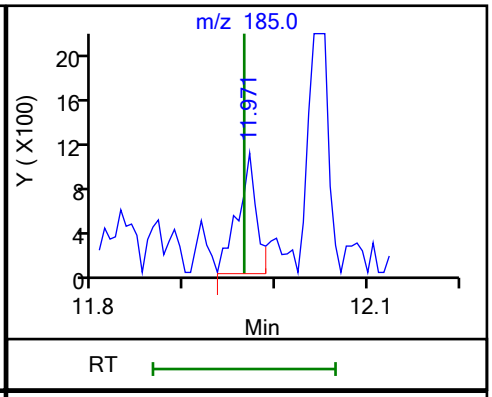
Eurofins Cleveland

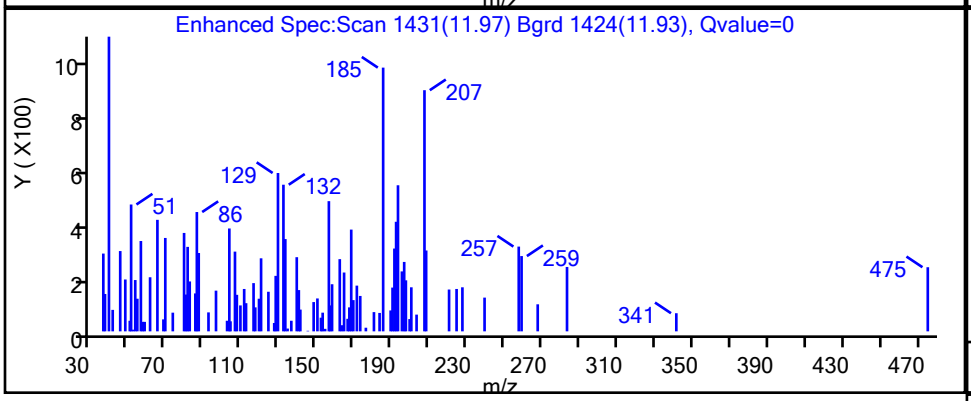
Data File:	\\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\17.D				
Injection Date:	09-Aug-2023 13:48:30	Instrument ID:	A4AG2		
Lims ID:	240-189273-K-4-A	Lab Sample ID:	240-189273-4		
Client ID:	16WC1A				
Operator ID:		ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

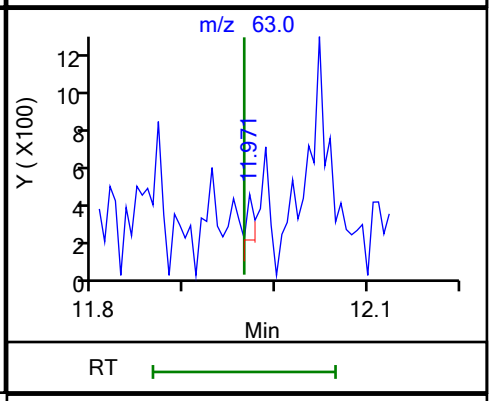
162 Aramite Peak 1, CAS: STL00690

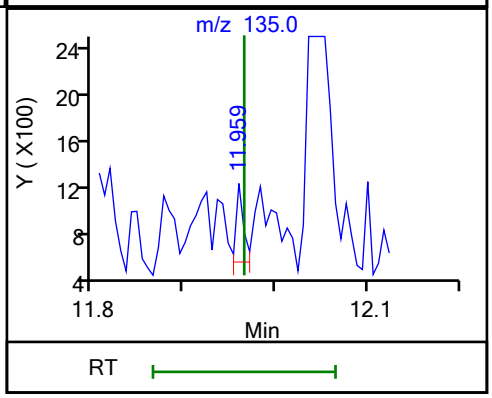
Processing Results











RT	Mass	Response	Amount
11.97	185.00	1551	17.720126
11.97	63.00	118	
11.96	135.00	377	

Reviewer: KDZ4, 10-Aug-2023 12:17:37 -04:00:00 (UTC)

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

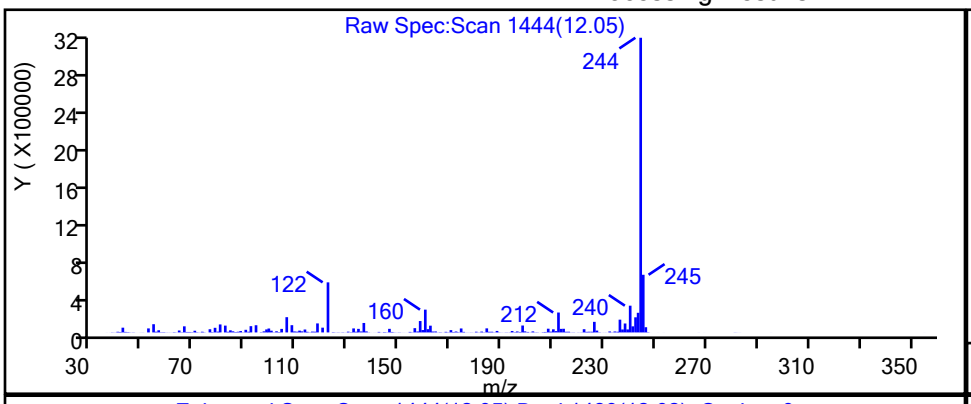
User Disabled Compound Report

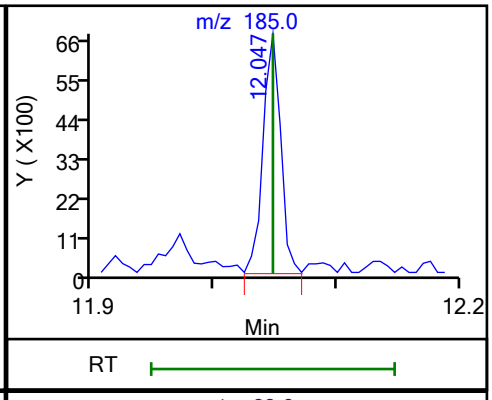
Eurofins Cleveland

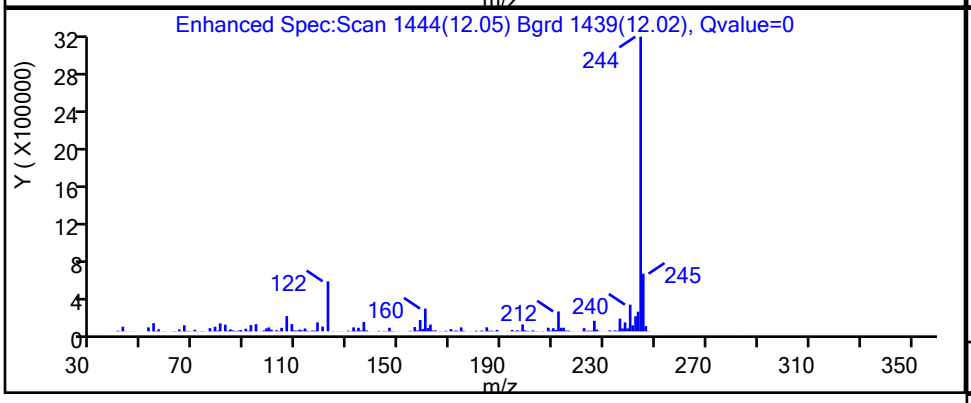
Data File:	\\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\17.D				
Injection Date:	09-Aug-2023 13:48:30	Instrument ID:	A4AG2		
Lims ID:	240-189273-K-4-A	Lab Sample ID:	240-189273-4		
Client ID:	16WC1A				
Operator ID:		ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

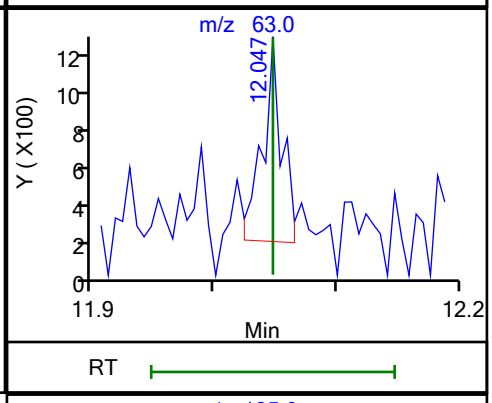
163 Aramite Peak 2, CAS: STL00691

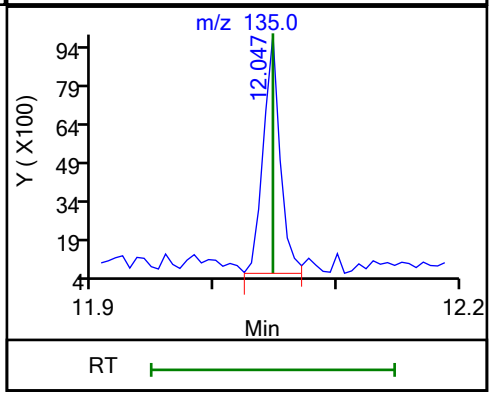
Processing Results











RT	Mass	Response	Amount
12.05	185.00	6729	33.487722
12.05	63.00	1204	
12.05	135.00	8893	

Reviewer: KDZ4, 10-Aug-2023 12:17:39 -04:00:00 (UTC)

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

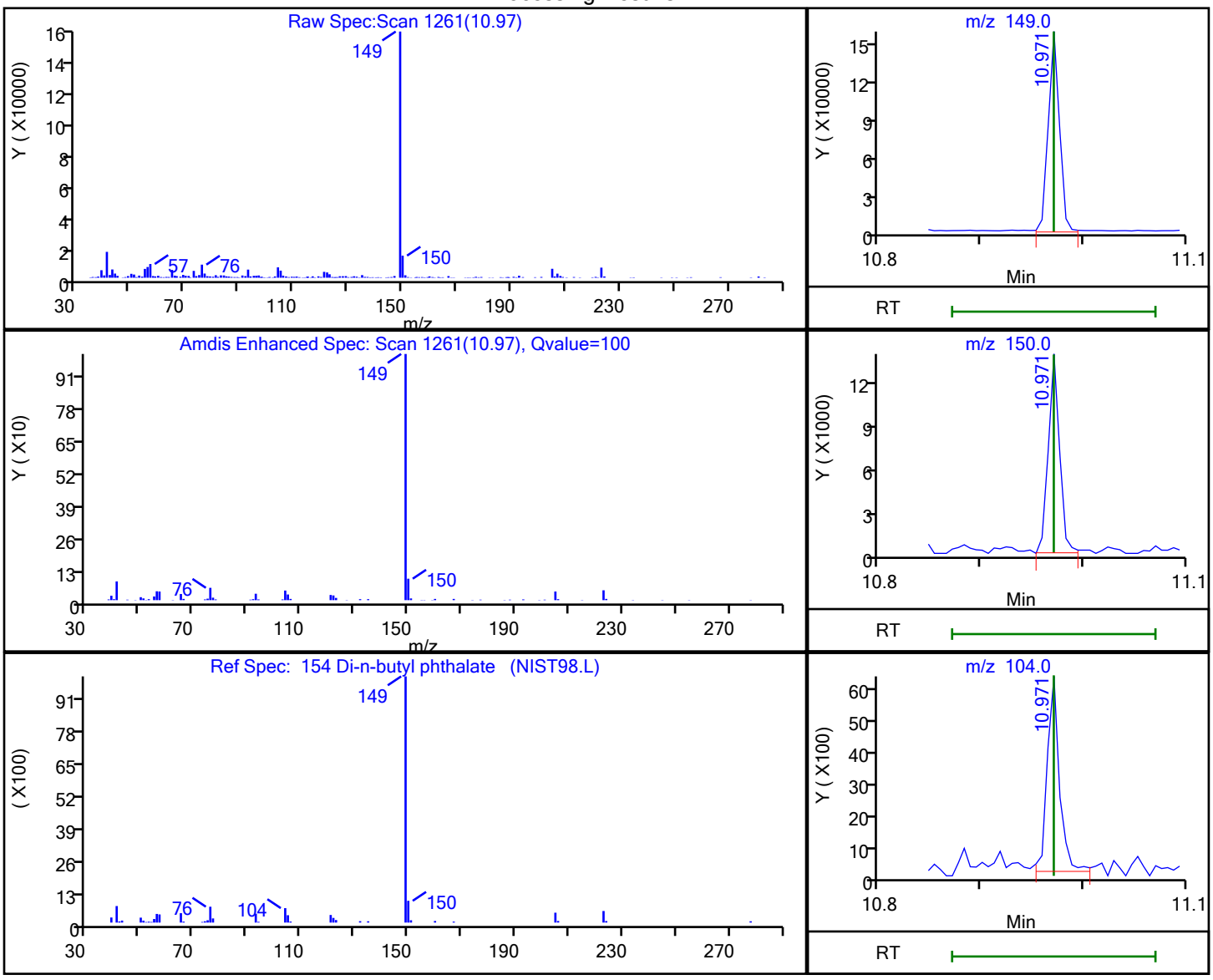
User Disabled Compound Report

Eurofins Cleveland

Data File:	\\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\17.D				
Injection Date:	09-Aug-2023 13:48:30	Instrument ID:	A4AG2		
Lims ID:	240-189273-K-4-A	Lab Sample ID:	240-189273-4		
Client ID:	16WC1A				
Operator ID:		ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

154 Di-n-butyl phthalate, CAS: 84-74-2

Processing Results



RT	Mass	Response	Amount
10.97	149.00	113287	33.261030
10.97	150.00	10421	
10.97	104.00	5127	

Reviewer: KDZ4, 10-Aug-2023 12:17:27 -04:00:00 (UTC)

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

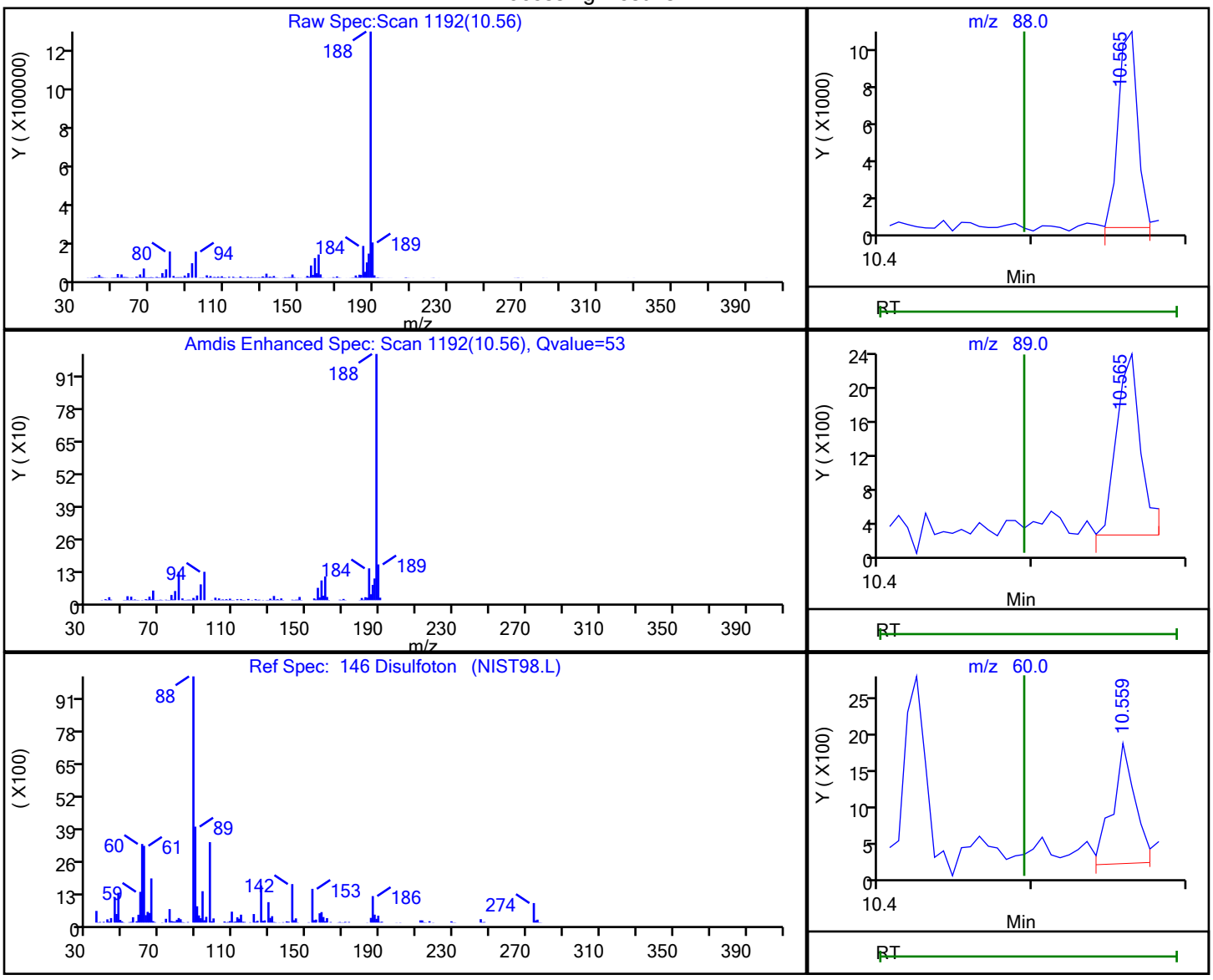
User Disabled Compound Report

Eurofins Cleveland

Data File:	\\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\17.D				
Injection Date:	09-Aug-2023 13:48:30	Instrument ID:	A4AG2		
Lims ID:	240-189273-K-4-A	Lab Sample ID:	240-189273-4		
Client ID:	16WC1A				
Operator ID:		ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

146 Disulfoton, CAS: 298-04-4

Processing Results



RT	Mass	Response	Amount
10.56	88.00	9250	8.118911
10.56	89.00	2318	
10.56	60.00	1733	

Reviewer: KDZ4, 10-Aug-2023 12:17:23 -04:00:00 (UTC)

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

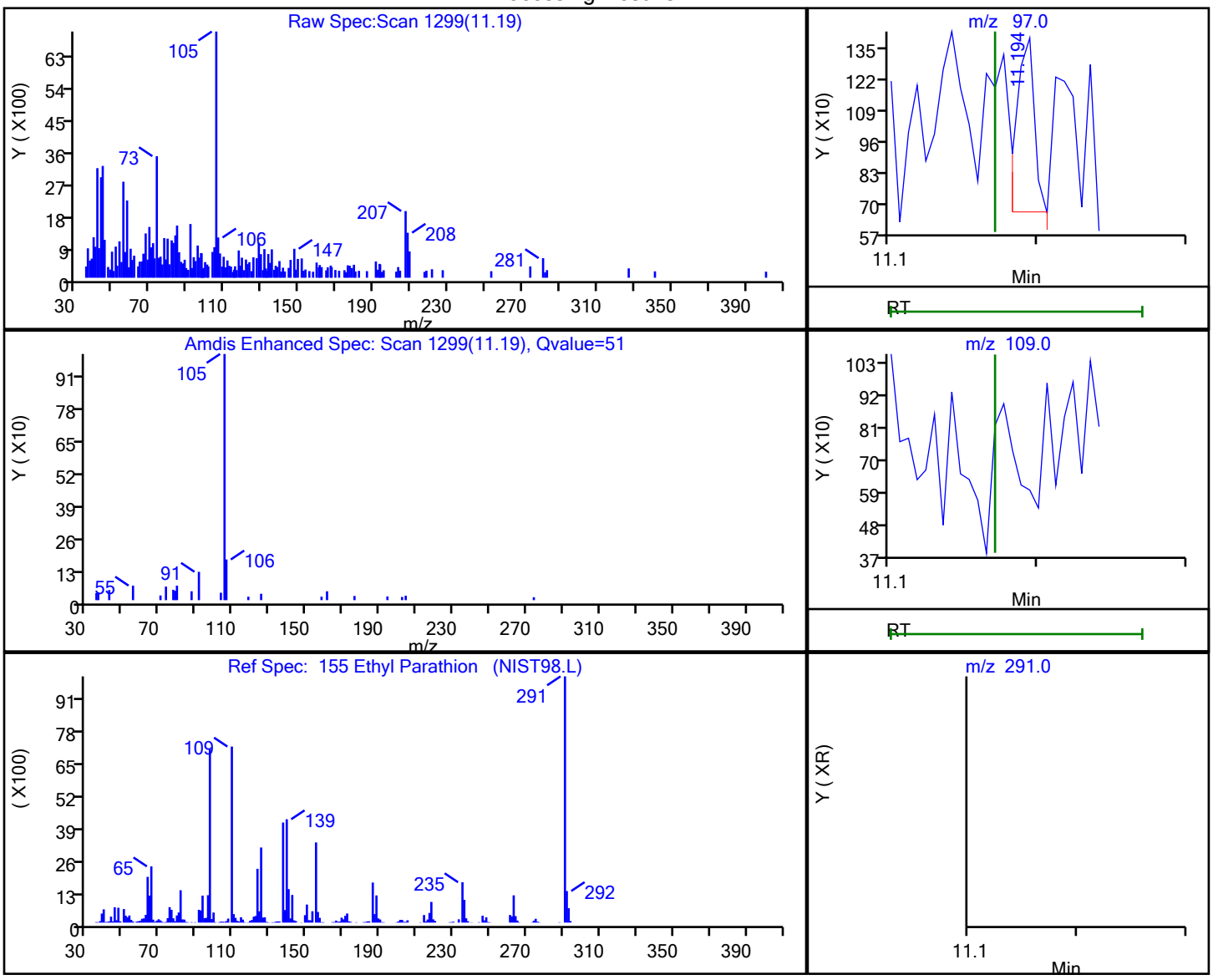
User Disabled Compound Report

Eurofins Cleveland

Data File:	\\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\17.D				
Injection Date:	09-Aug-2023 13:48:30	Instrument ID:	A4AG2		
Lims ID:	240-189273-K-4-A	Lab Sample ID:	240-189273-4		
Client ID:	16WC1A				
Operator ID:		ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

155 Ethyl Parathion, CAS: 56-38-2

Processing Results



RT	Mass	Response	Amount
11.19	97.00	616	42.203353
11.17	109.00	0	
11.17	291.00	0	

Reviewer: KDZ4, 10-Aug-2023 12:17:31 -04:00:00 (UTC)

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

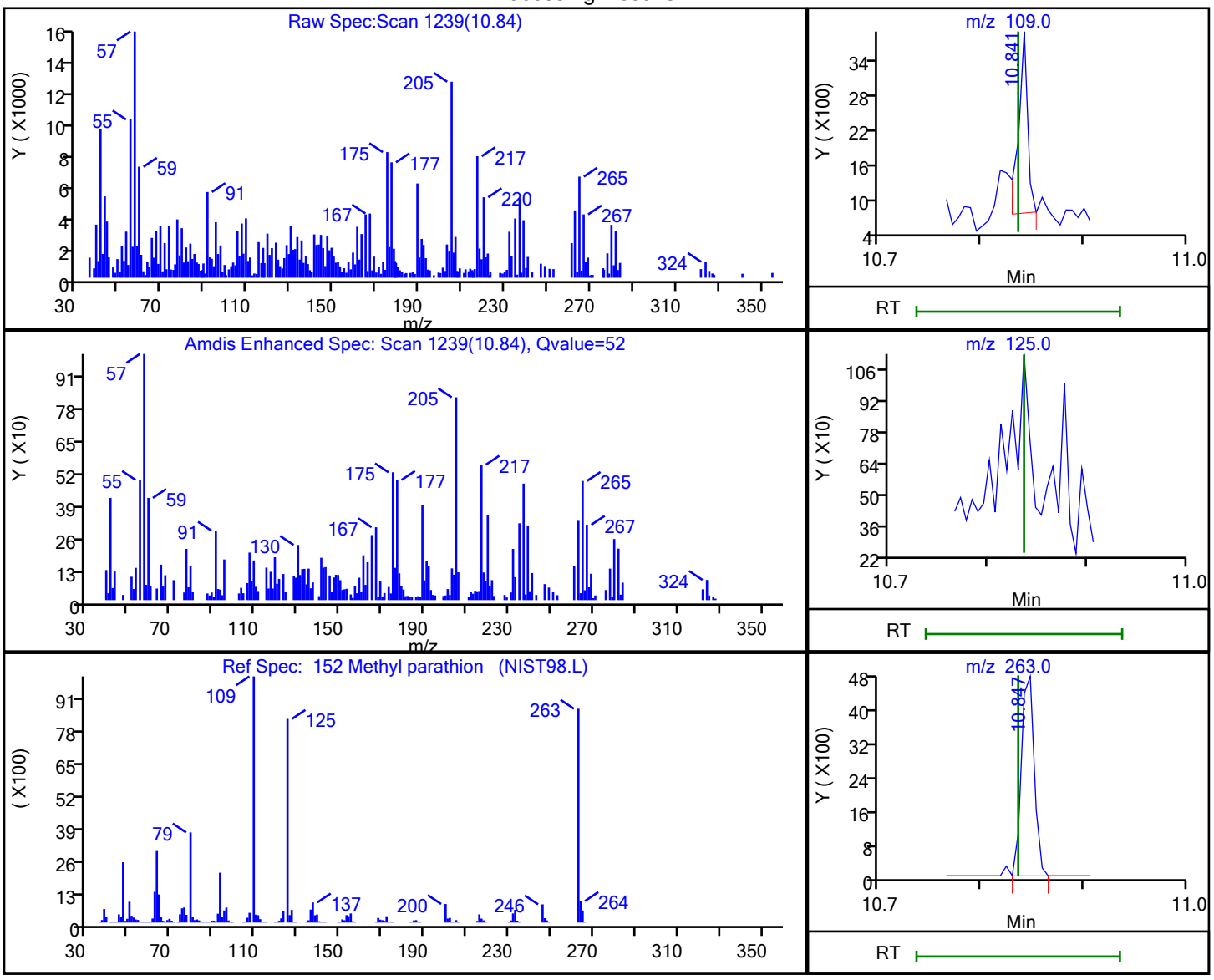
User Disabled Compound Report

Eurofins Cleveland

Data File:	\\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\17.D				
Injection Date:	09-Aug-2023 13:48:30	Instrument ID:	A4AG2		
Lims ID:	240-189273-K-4-A	Lab Sample ID:	240-189273-4		
Client ID:	16WC1A				
Operator ID:		ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

152 Methyl parathion, CAS: 298-00-0

Processing Results



RT	Mass	Response	Amount
10.84	109.00	1884	37.880153
10.85	263.00	4198	
10.84	125.00	0	

Reviewer: KDZ4, 10-Aug-2023 12:17:25 -04:00:00 (UTC)

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

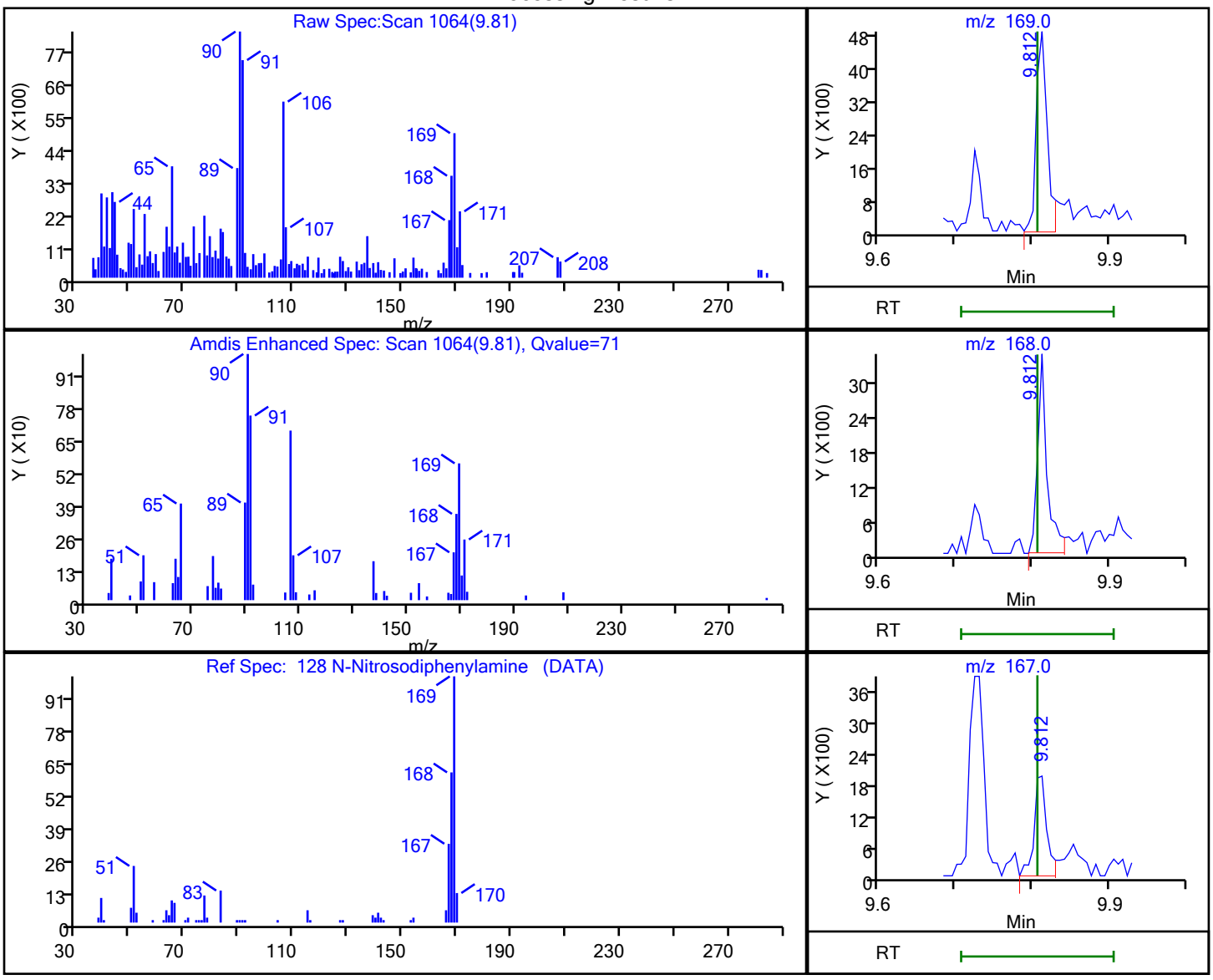
User Disabled Compound Report

Eurofins Cleveland

Data File:	\\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\17.D				
Injection Date:	09-Aug-2023 13:48:30	Instrument ID:	A4AG2		
Lims ID:	240-189273-K-4-A	Lab Sample ID:	240-189273-4		
Client ID:	16WC1A				
Operator ID:		ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

128 N-Nitrosodiphenylamine, CAS: 86-30-6

Processing Results



RT	Mass	Response	Amount
9.81	169.00	4892	3.169979
9.81	168.00	3013	
9.81	167.00	2269	

Reviewer: KDZ4, 10-Aug-2023 12:17:20 -04:00:00 (UTC)

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

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 240-189273-1

SDG No.:

Client Sample ID: 16WDUP | Lab Sample ID: 240-189273-5

Matrix: Water | Lab File ID: 15.D

Analysis Method: 8270E | Date Collected: 07/27/2023 10:20

Extract. Method: 3510C LVI | Date Extracted: 08/01/2023 08:59

Sample wt/vol: 270(mL) | Date Analyzed: 08/09/2023 13:01

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | GC Column: RXI-5SILMS/IIG ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 583312 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
99-35-4	1,3,5-Trinitrobenzene	9.3	U	9.3	2.8
130-15-4	1,4-Naphthoquinone	9.3	U	9.3	2.8
134-32-7	1-Naphthylamine	9.3	U	9.3	2.8
105-67-9	2,4-Dimethylphenol	9.3	U	9.3	2.8
51-28-5	2,4-Dinitrophenol	9.3	U	9.3	5.7
53-96-3	2-Acetylaminofluorene	9.3	U	9.3	2.8
91-59-8	2-Naphthylamine	9.3	U	9.3	6.5
109-06-8	2-Picoline	9.3	U	9.3	0.93
91-94-1	3,3'-Dichlorobenzidine	9.3	U	9.3	2.8
119-93-7	3,3'-Dimethylbenzidine	9.3	U	9.3	3.1
56-49-5	3-Methylcholanthrene	9.3	U	9.3	0.93
99-09-2	3-Nitroaniline	9.3	U	9.3	1.9
534-52-1	4,6-Dinitro-2-methylphenol	9.3	U	9.3	2.8
92-67-1	4-Aminobiphenyl	9.3	U	9.3	2.8
106-47-8	4-Chloroaniline	9.3	U	9.3	3.1
100-01-6	4-Nitroaniline	9.3	U	9.3	1.4
56-57-5	4-Nitroquinoline-1-oxide	46	U	46	4.6
57-97-6	7,12-Dimethylbenz(a)anthracene	9.3	U	9.3	1.7
98-86-2	Acetophenone	9.3	U	9.3	0.93
62-53-3	Aniline	9.3	U	9.3	1.0
140-57-8	Aramite, Total	9.3	U	9.3	3.4
100-51-6	Benzyl alcohol	9.3	U	9.3	2.8
111-91-1	Bis(2-chloroethoxy)methane	0.93	U	0.93	0.46
111-44-4	Bis(2-chloroethyl)ether	0.93	U	0.93	0.46
85-68-7	Butyl benzyl phthalate	9.3	U	9.3	0.65
510-15-6	Chlorobenzilate	9.3	U	9.3	2.8
84-74-2	Di-n-butyl phthalate	9.3	U	9.3	1.7
298-04-4	Disulfoton	9.3	U	9.3	2.8
56-38-2	Ethyl Parathion	9.3	U	9.3	2.8
52-85-7	Famphur	9.3	U	9.3	4.6
77-47-4	Hexachlorocyclopentadiene	9.3	U	9.3	2.8
67-72-1	Hexachloroethane	9.3	U	9.3	0.37

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 240-189273-1

SDG No.:

Client Sample ID: 16WDUP | Lab Sample ID: 240-189273-5

Matrix: Water | Lab File ID: 15.D

Analysis Method: 8270E | Date Collected: 07/27/2023 10:20

Extract. Method: 3510C LVI | Date Extracted: 08/01/2023 08:59

Sample wt/vol: 270(mL) | Date Analyzed: 08/09/2023 13:01

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | GC Column: RXI-5SILMS/IIG ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 583312 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
78-59-1	Isophorone	9.3	U	9.3	0.46
91-80-5	Methapyrilene	9.3	U	9.3	2.8
66-27-3	Methyl methanesulfonate	9.3	U	9.3	0.93
298-00-0	Methyl parathion	9.3	U	9.3	3.0
924-16-3	N-Nitrosodi-n-butylamine	9.3	U	9.3	2.8
621-64-7	N-Nitrosodi-n-propylamine	9.3	U	9.3	0.46
86-30-6	N-Nitrosodiphenylamine	9.3	U	9.3	0.54
10595-95-6	N-Nitrosomethylethylamine	9.3	U	9.3	0.93
930-55-2	N-Nitrosopyrrolidine	9.3	U	9.3	0.46
60-11-7	p-Dimethylamino azobenzene	9.3	U	9.3	2.8
106-50-3	p-Phenylene diamine	140	U *-	140	24
110-86-1	Pyridine	9.3	U	9.3	1.9
99-55-8	N-Nitro-o-toluidine	4.6	U	4.6	1.1
95-53-4	o-Toluidine	9.3	U	9.3	3.7
100-02-7	4-Nitrophenol	9.3	U	9.3	2.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14 (Surr)	95		31-140
4165-62-2	Phenol-d5 (Surr)	53		18-120
4165-60-0	Nitrobenzene-d5 (Surr)	85		13-120
367-12-4	2-Fluorophenol (Surr)	27		12-120
321-60-8	2-Fluorobiphenyl (Surr)	78		23-120
118-79-6	2,4,6-Tribromophenol (Surr)	23		10-126

Eurofins Cleveland
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\15.D
Lims ID: 240-189273-D-5-A
Client ID: 16WDUP
Sample Type: Client
Inject. Date: 09-Aug-2023 13:01:30 ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 240-0132248-015
Misc. Info.: 240-189273-D-5-A
Operator ID: Instrument ID: A4AG2

Method: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\LVI AG2 8270.m
Limit Group: MSS 8270D ICAL
Last Update: 10-Aug-2023 12:37:20 Calib Date: 08-Aug-2023 12:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A4AG2\20230808-132200.b\10.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: KDZ4 Date: 10-Aug-2023 12:16:20

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.712	6.712	0.000	96	245807	400.0	
* 2 Naphthalene-d8	136	7.777	7.777	0.000	99	1002453	400.0	
* 3 Acenaphthene-d10	164	9.277	9.277	0.000	93	564663	400.0	
* 4 Phenanthrene-d10	188	10.565	10.565	0.000	97	928266	400.0	
* 5 Chrysene-d12	240	13.488	13.494	-0.006	98	653881	400.0	
* 6 Perylene-d12	264	15.853	15.865	-0.012	95	704535	400.0	
$ 7 2-Fluorophenol	112	5.653	5.653	0.000	91	211565	437.6	
$ 8 Phenol-d5	99	6.371	6.371	0.000	0	769100	840.8	
$ 9 Nitrobenzene-d5	82	7.159	7.159	0.000	86	1188810	1360.8	
$ 10 2-Fluorobiphenyl (Surr)	172	8.665	8.665	0.000	100	2355625	1243.0	
$ 11 2,4,6-Tribromophenol	330	9.959	9.953	0.006	93	63644	372.8	
$ 12 Terphenyl-d14	244	12.047	12.047	0.000	97	2845011	1513.0	
28 Pyridine	79		4.548				ND	
31 2-Picoline	93		5.183				ND	
32 N-Nitrosomethylethylamine	88		5.254				ND	
34 Methyl methanesulfonate	80		5.483				ND	
44 Aniline	93		6.430				ND	
45 Bis(2-chloroethyl)ether	93		6.453				ND	
50 Benzyl alcohol	108		6.794				ND	
56 N-Nitrosopyrrolidine	100		6.995				ND	
57 N-Nitrosodi-n-propylamine	70		7.000				ND	
58 Acetophenone	105		7.018				ND	U
60 2-Toluidine	106		7.053				ND	
61 Hexachloroethane	117		7.147				ND	
64 Isophorone	82		7.359				ND	
66 2,4-Dimethylphenol	107		7.441				ND	
69 Bis(2-chloroethoxy)methane	93		7.506				ND	
75 4-Chloroaniline	127		7.818				ND	U
82 N-Nitrosodi-n-butylamine	84		8.065				ND	
84 p-Phenylene diamine	108		8.106				ND	
89 Hexachlorocyclopentadiene	237		8.506				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ml	Flags
102 1,4-Naphthoquinone	158		8.930				ND	
109 3-Nitroaniline	138		9.212				ND	
110 2,4-Dinitrophenol	184		9.288				ND	
112 4-Nitrophenol	109		9.330				ND	
117 1-Naphthylamine	143		9.512				ND	
119 2-Naphthylamine	143		9.577				ND	
123 N-Nitro-o-toluidine	152		9.736				ND	
125 4-Nitroaniline	138		9.741				ND	U
127 4,6-Dinitro-2-methylphenol	198		9.753				ND	
128 N-Nitrosodiphenylamine	169		9.806				ND	U
133 1,3,5-Trinitrobenzene	213		10.000				ND	
142 4-Aminobiphenyl	169		10.365				ND	
146 Disulfoton	88		10.494				ND	U
152 Methyl parathion	109		10.836				ND	U
154 Di-n-butyl phthalate	149	10.971	10.971	0.000	99	84968	26.5	
155 Ethyl Parathion	97		11.171				ND	
156 4-Nitroquinoline-1-oxide	190		11.259				ND	
157 Methapyrilene	58		11.283				ND	
162 Aramite Peak 1	185		11.965				ND	U
163 Aramite Peak 2	185		12.047				ND	U
164 p-Dimethylamino azobenzene	225		12.206				ND	
165 Chlorobenzilate	139		12.235				ND	
168 Famphur	218		12.541				ND	
169 Butyl benzyl phthalate	149		12.576				ND	
170 3,3'-Dimethylbenzidine	212		12.618				ND	
172 2-Acetylaminofluorene	181		12.971				ND	
177 3,3'-Dichlorobenzidine	252		13.382				ND	
182 7,12-Dimethylbenz(a)anthracene	256		15.176				ND	
186 3-Methylcholanthrene	268		16.370				ND	
S 196 Aramite, Total	185		7.898				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

SMIS80PPMW_00027 Amount Added: 5.00 Units: uL Run Reagent

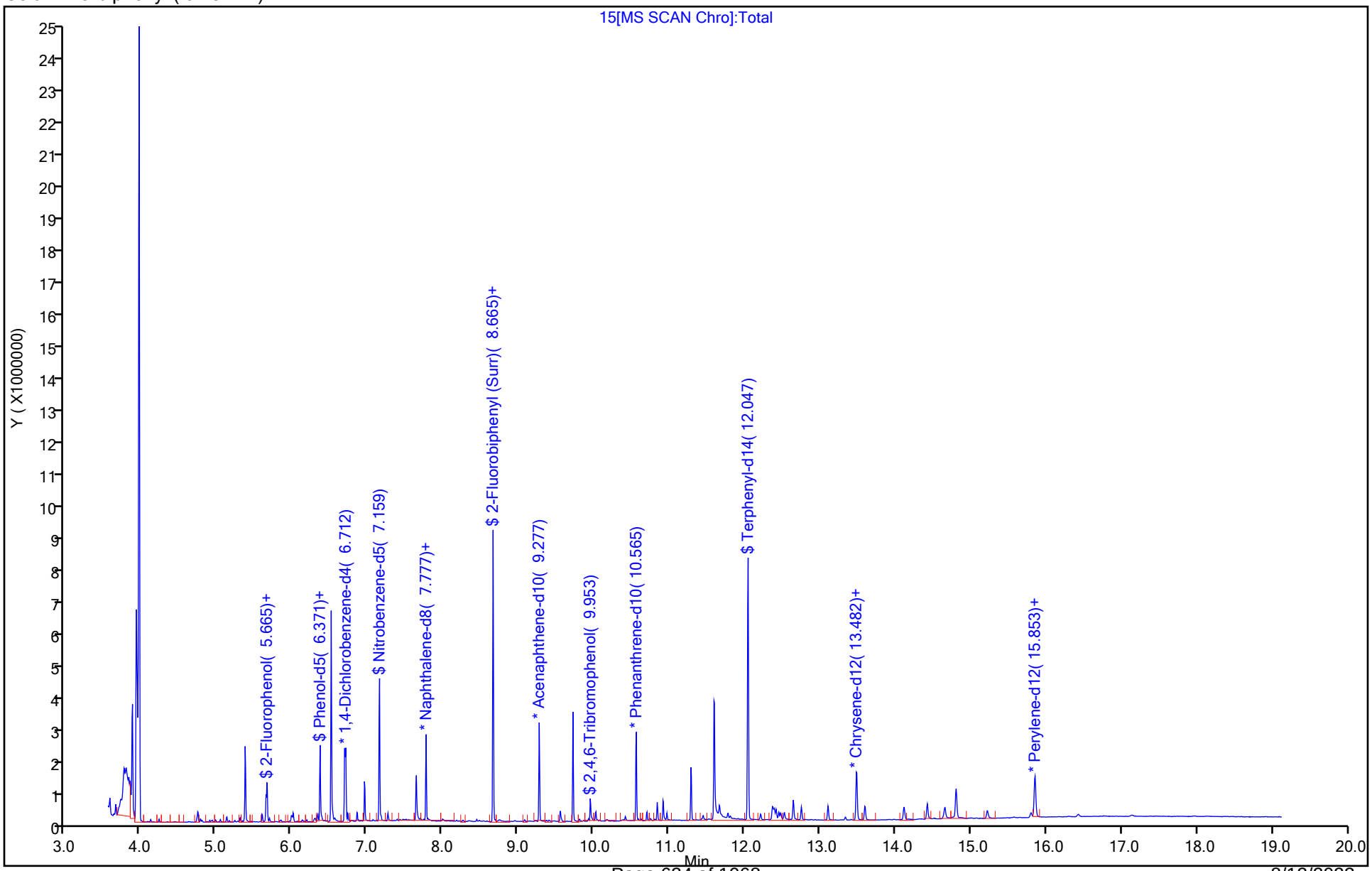
Report Date: 10-Aug-2023 12:43:30 Chrom Revision: 2.3 03-Aug-2023 16:11:04

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\15.D

Injection Date:	09-Aug-2023 13:01:30	Instrument ID:	A4AG2	Operator ID:	
Lims ID:	240-189273-D-5-A	Lab Sample ID:	240-189273-5	Worklist Smp#:	15
Client ID:	16WDUP				
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		

Column: 5% phenyl (0.18 mm)



8/12/2023
10:47 AM

Eurofins Cleveland
Recovery Report

Data File: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\15.D
Lims ID: 240-189273-D-5-A
Client ID: 16WDUP
Sample Type: Client
Inject. Date: 09-Aug-2023 13:01:30 ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 240-0132248-015
Misc. Info.: 240-189273-D-5-A
Operator ID: Instrument ID: A4AG2

Method: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\LVI AG2 8270.m
Limit Group: MSS 8270D ICAL
Last Update: 10-Aug-2023 12:37:20 Calib Date: 08-Aug-2023 12:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A4AG2\20230808-132200.b\10.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: KDZ4 Date: 10-Aug-2023 12:16:20

Compound	Amount Added	Amount Recovered	% Rec.
$ 7 2-Fluorophenol	1600.0	437.6	27.35
$ 8 Phenol-d5	1600.0	840.8	52.55
$ 9 Nitrobenzene-d5	1600.0	1360.8	85.05
$ 10 2-Fluorobiphenyl (Surr)	1600.0	1243.0	77.69
$ 11 2,4,6-Tribromophenol	1600.0	372.8	23.30
$ 12 Terphenyl-d14	1600.0	1513.0	94.56

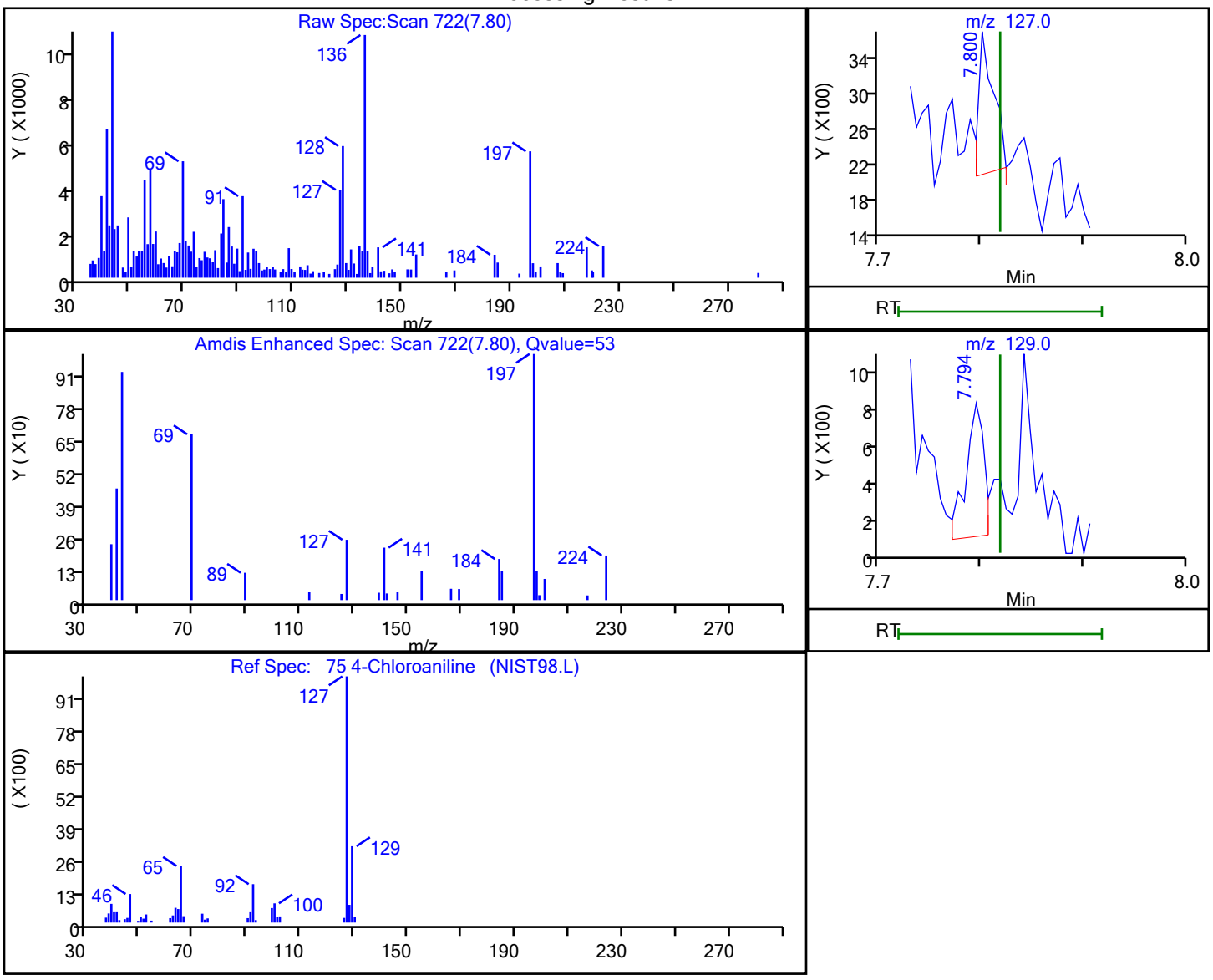
User Disabled Compound Report

Eurofins Cleveland

Data File:	\\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\15.D				
Injection Date:	09-Aug-2023 13:01:30	Instrument ID:	A4AG2		
Lims ID:	240-189273-D-5-A	Lab Sample ID:	240-189273-5		
Client ID:	16WDUP				
Operator ID:		ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

75 4-Chloroaniline, CAS: 106-47-8

Processing Results



RT	Mass	Response	Amount
7.80	127.00	1645	1.671900
7.79	129.00	848	

Reviewer: KDZ4, 10-Aug-2023 12:15:23 -04:00:00 (UTC)

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

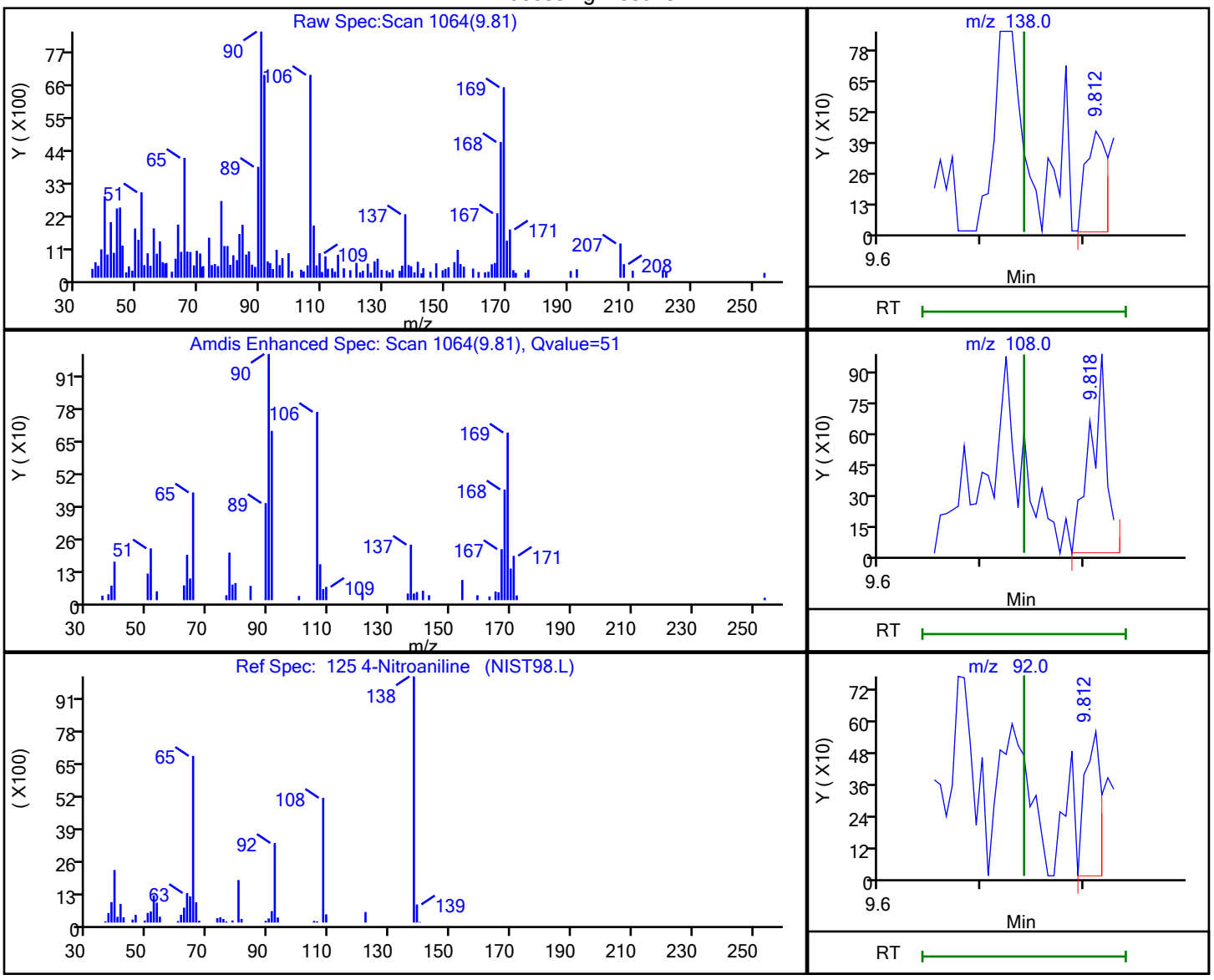
User Disabled Compound Report

Eurofins Cleveland

Data File:	\\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\15.D				
Injection Date:	09-Aug-2023 13:01:30	Instrument ID:	A4AG2		
Lims ID:	240-189273-D-5-A	Lab Sample ID:	240-189273-5		
Client ID:	16WDUP				
Operator ID:		ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

125 4-Nitroaniline, CAS: 100-01-6

Processing Results



RT	Mass	Response	Amount
9.81	138.00	612	13.966872
9.82	108.00	1089	
9.81	92.00	598	

Reviewer: KDZ4, 10-Aug-2023 12:15:28 -04:00:00 (UTC)

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

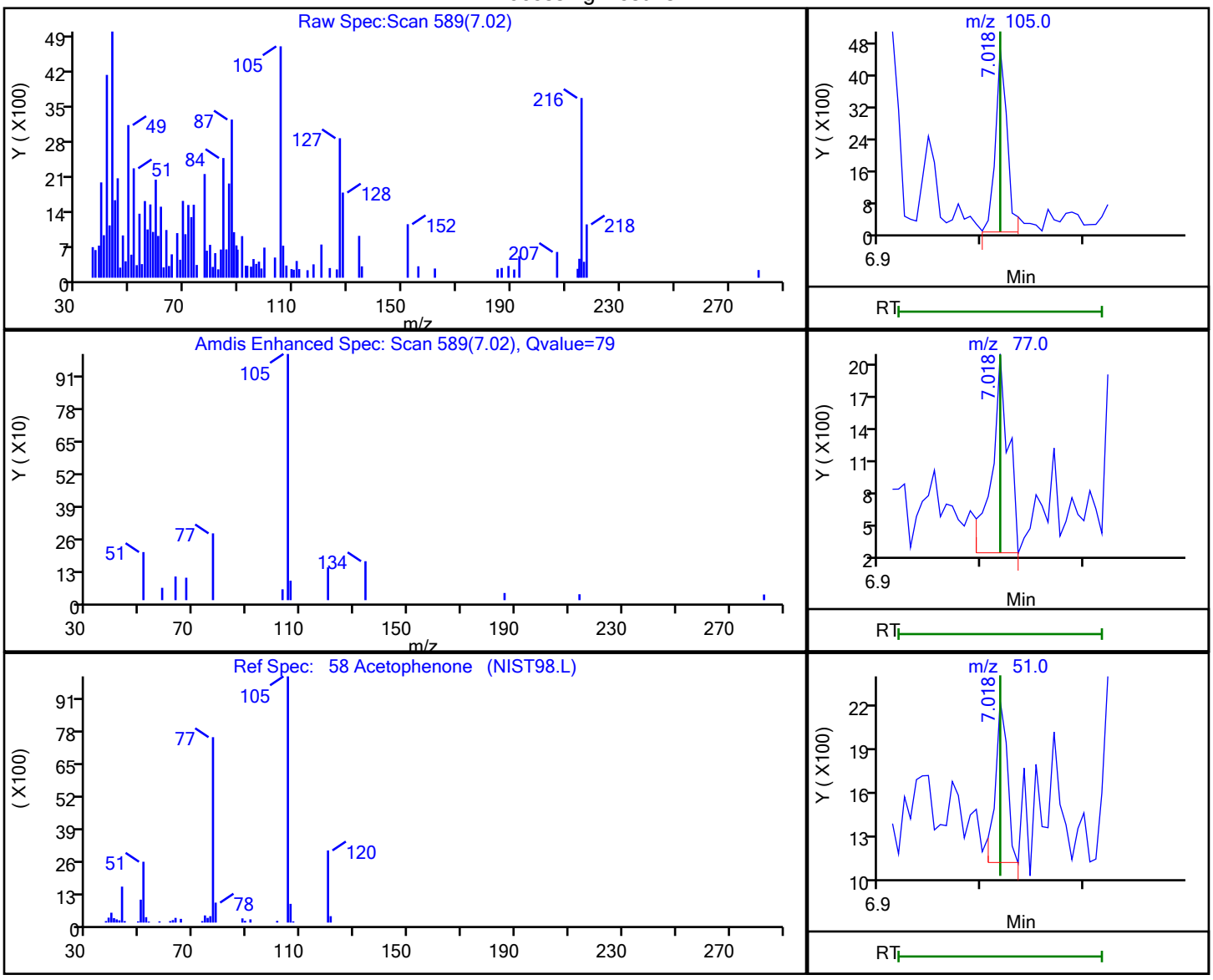
User Disabled Compound Report

Eurofins Cleveland

Data File:	\\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\15.D				
Injection Date:	09-Aug-2023 13:01:30	Instrument ID:	A4AG2		
Lims ID:	240-189273-D-5-A	Lab Sample ID:	240-189273-5		
Client ID:	16WDUP				
Operator ID:		ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

58 Acetophenone, CAS: 98-86-2

Processing Results



RT	Mass	Response	Amount
7.02	105.00	3639	2.825211
7.02	77.00	1998	
7.02	51.00	853	

Reviewer: KDZ4, 10-Aug-2023 12:15:19 -04:00:00 (UTC)

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

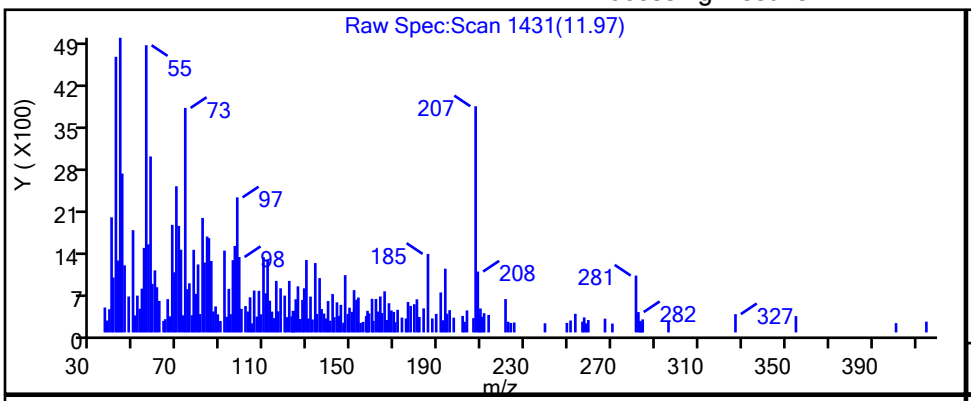
User Disabled Compound Report

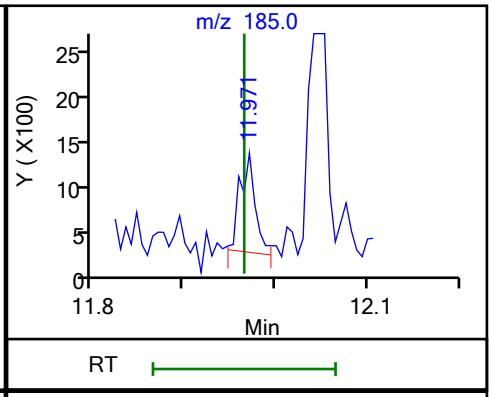
Eurofins Cleveland

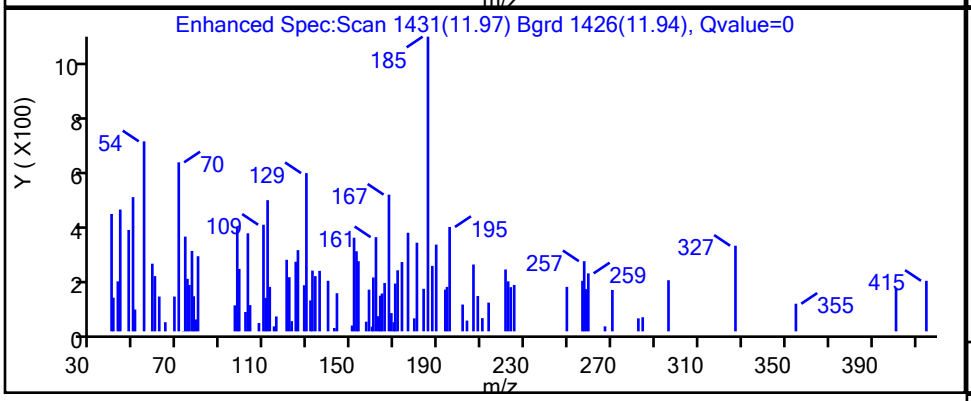
Data File:	\\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\15.D				
Injection Date:	09-Aug-2023 13:01:30	Instrument ID:	A4AG2		
Lims ID:	240-189273-D-5-A	Lab Sample ID:	240-189273-5		
Client ID:	16WDUP				
Operator ID:		ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

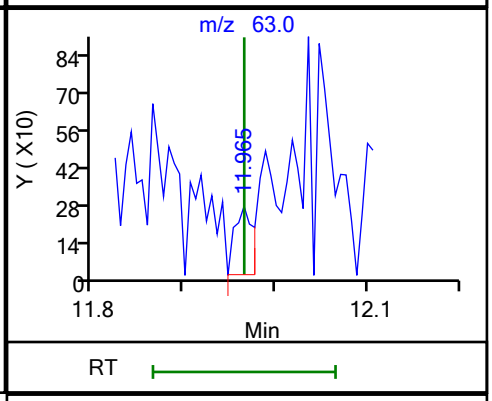
162 Aramite Peak 1, CAS: STL00690

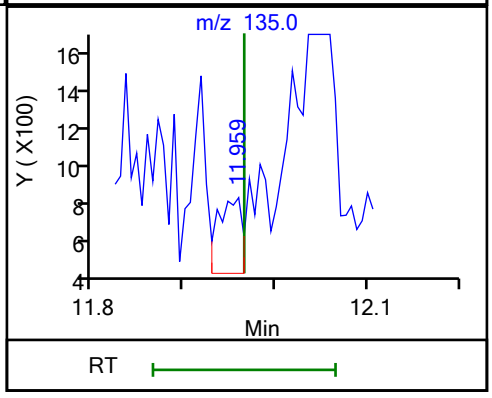
Processing Results











RT	Mass	Response	Amount
11.97	185.00	1306	16.894957
11.96	63.00	361	
11.96	135.00	708	

Reviewer: KDZ4, 10-Aug-2023 12:15:50 -04:00:00 (UTC)

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

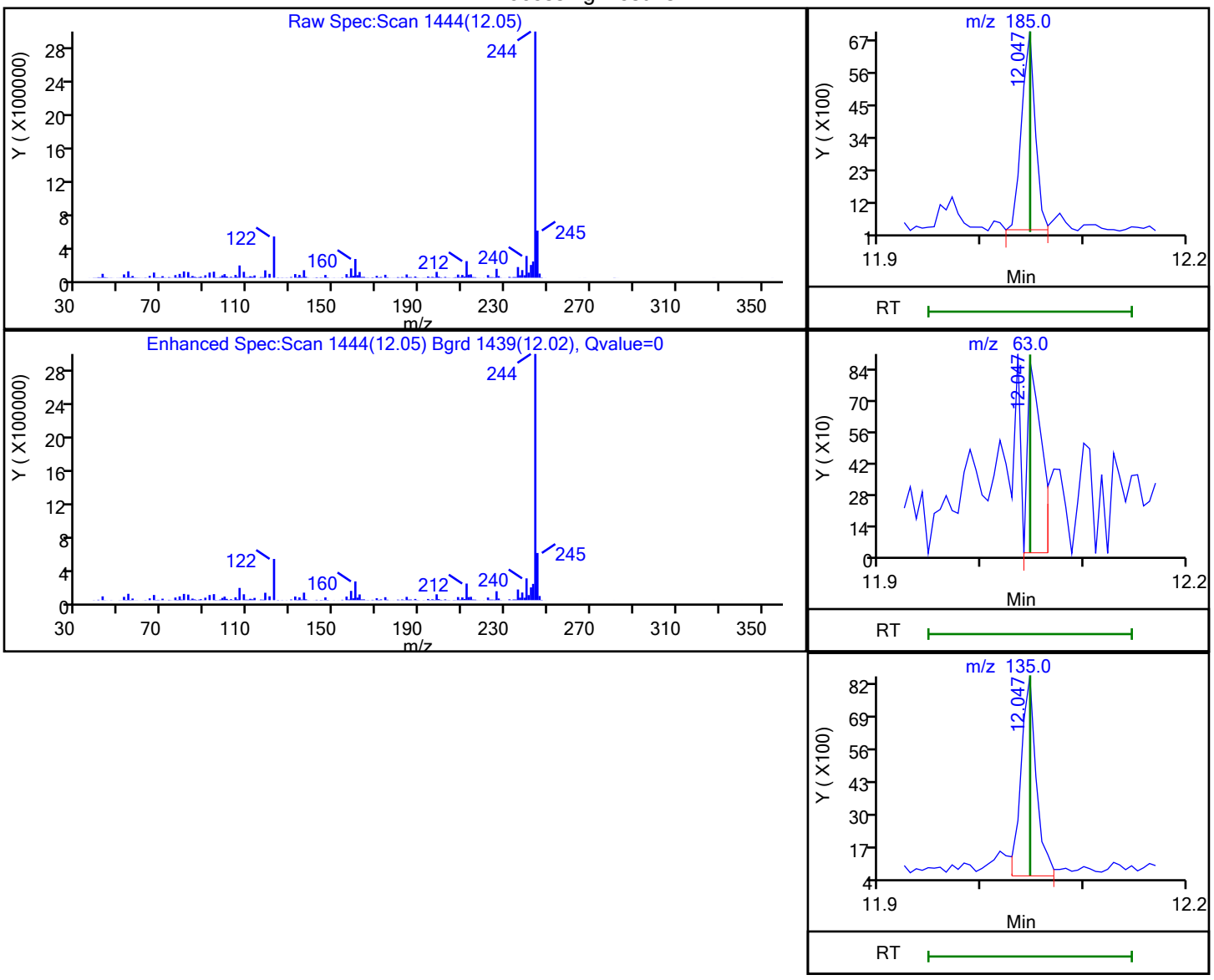
User Disabled Compound Report

Eurofins Cleveland

Data File:	\\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\15.D				
Injection Date:	09-Aug-2023 13:01:30	Instrument ID:	A4AG2		
Lims ID:	240-189273-D-5-A	Lab Sample ID:	240-189273-5		
Client ID:	16WDUP				
Operator ID:		ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

163 Aramite Peak 2, CAS: STL00691

Processing Results



RT	Mass	Response	Amount
12.05	185.00	6260	32.620348
12.05	63.00	848	
12.05	135.00	8351	

Reviewer: KDZ4, 10-Aug-2023 12:15:52 -04:00:00 (UTC)

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

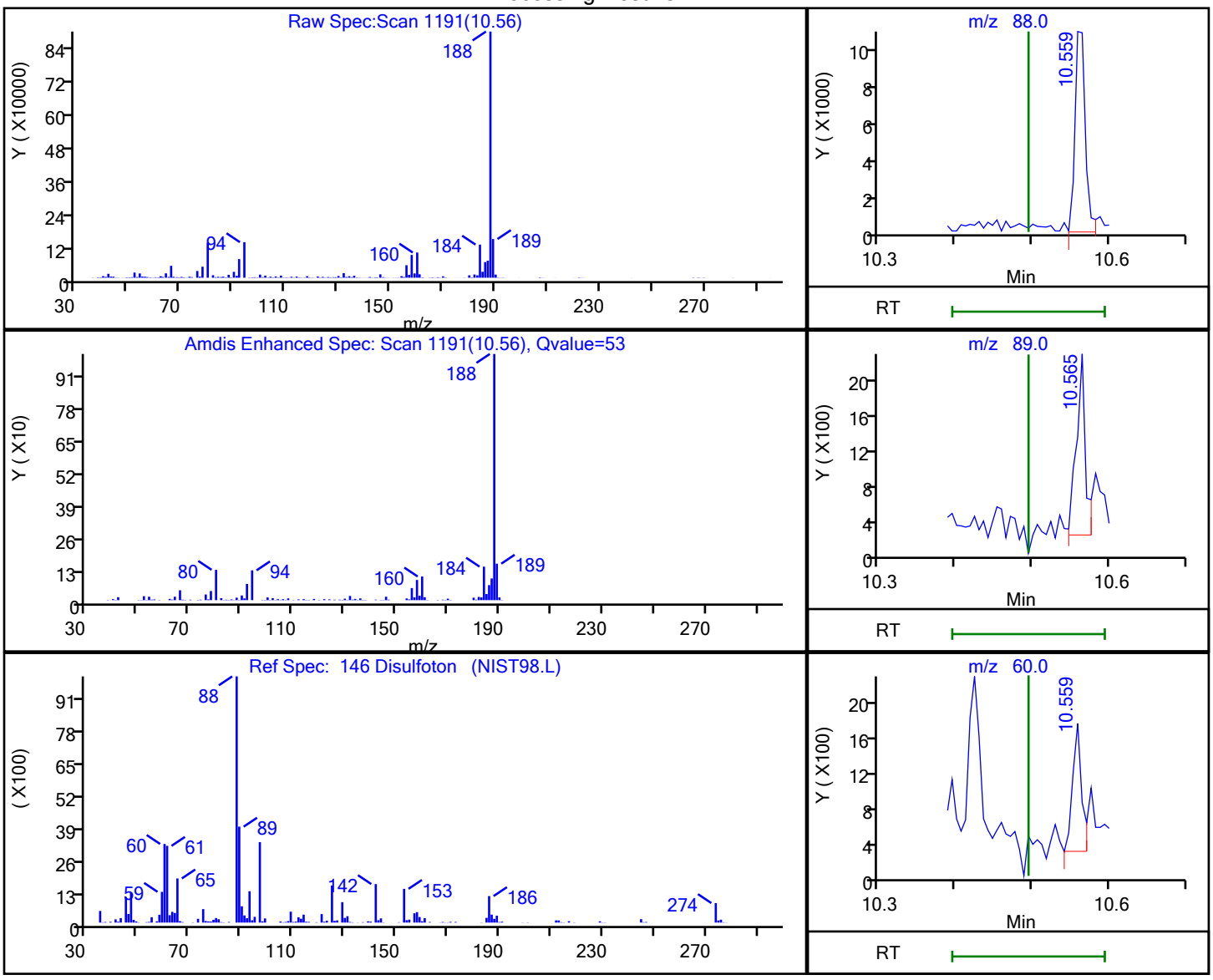
User Disabled Compound Report

Eurofins Cleveland

Data File:	\\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\15.D				
Injection Date:	09-Aug-2023 13:01:30	Instrument ID:	A4AG2		
Lims ID:	240-189273-D-5-A	Lab Sample ID:	240-189273-5		
Client ID:	16WDUP				
Operator ID:		ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

146 Disulfoton, CAS: 298-04-4

Processing Results



RT	Mass	Response	Amount
10.56	88.00	10079	9.383252
10.56	89.00	1741	
10.56	60.00	1199	

Reviewer: KDZ4, 10-Aug-2023 12:15:33 -04:00:00 (UTC)

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

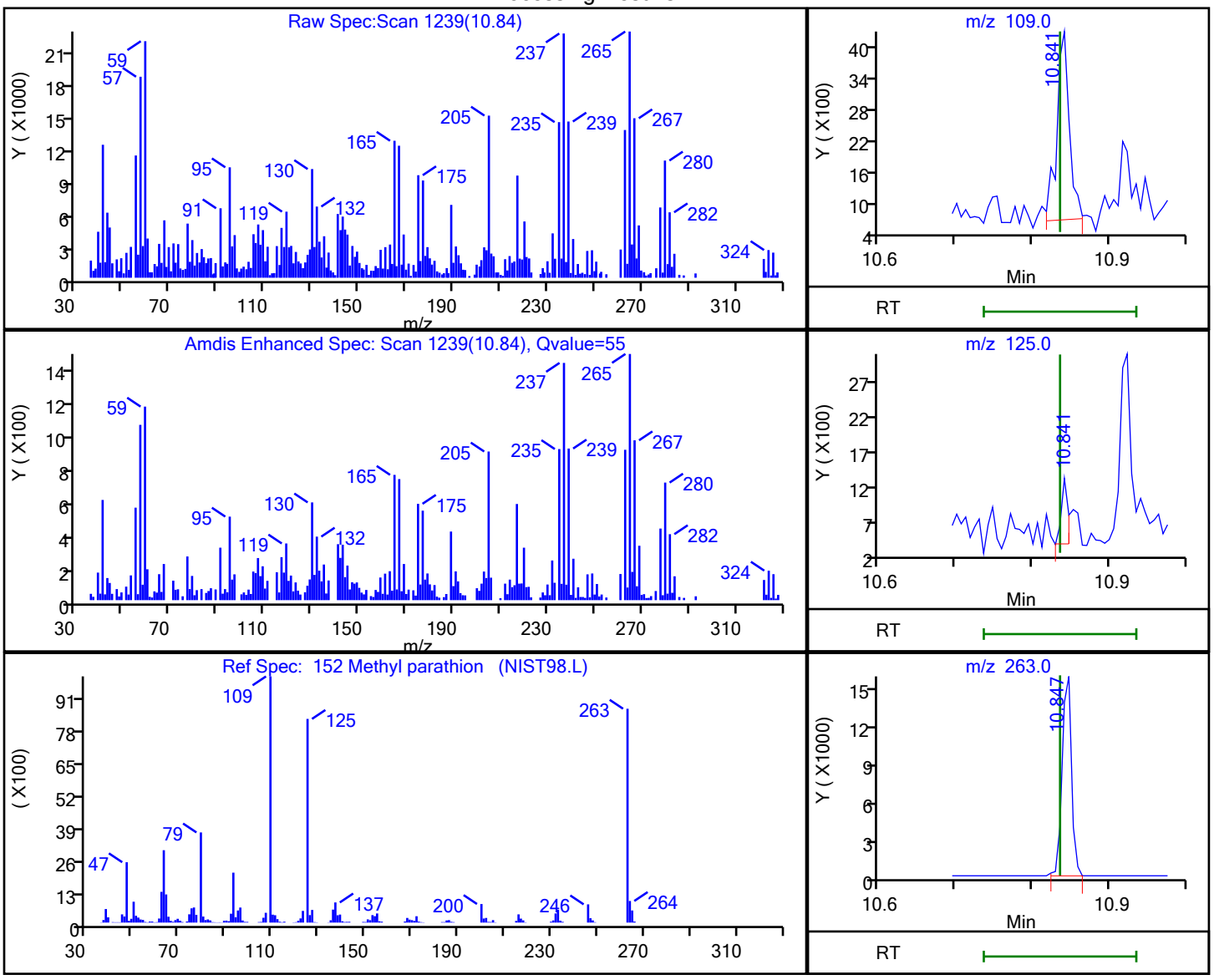
User Disabled Compound Report

Eurofins Cleveland

Data File:	\\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\15.D				
Injection Date:	09-Aug-2023 13:01:30	Instrument ID:	A4AG2		
Lims ID:	240-189273-D-5-A	Lab Sample ID:	240-189273-5		
Client ID:	16WDUP				
Operator ID:		ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

152 Methyl parathion, CAS: 298-00-0

Processing Results



RT	Mass	Response	Amount
10.84	109.00	4100	41.610053
10.84	125.00	573	
10.85	263.00	13195	

Reviewer: KDZ4, 10-Aug-2023 12:15:35 -04:00:00 (UTC)

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

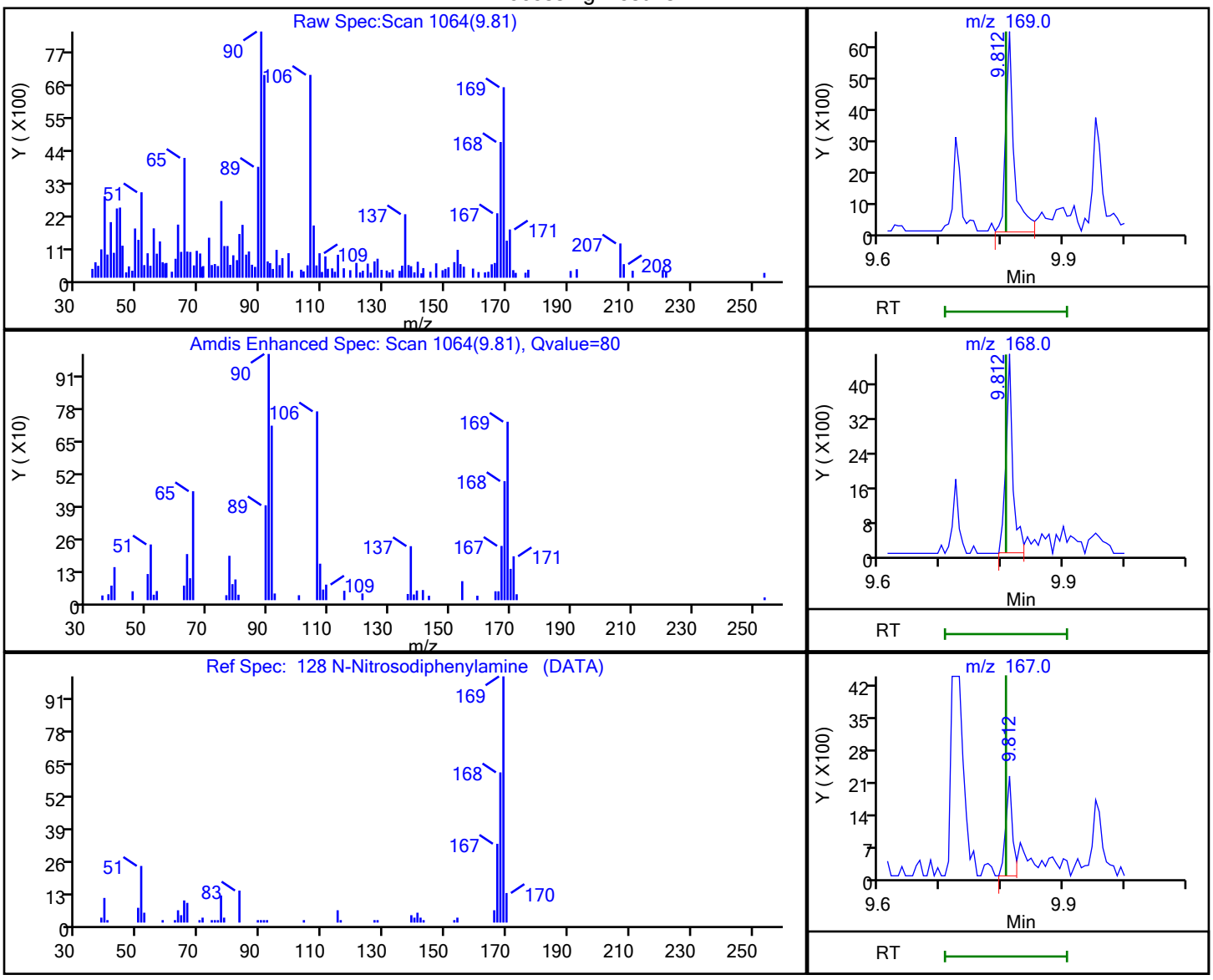
User Disabled Compound Report

Eurofins Cleveland

Data File:	\\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\15.D				
Injection Date:	09-Aug-2023 13:01:30	Instrument ID:	A4AG2		
Lims ID:	240-189273-D-5-A	Lab Sample ID:	240-189273-5		
Client ID:	16WDUP				
Operator ID:		ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

128 N-Nitrosodiphenylamine, CAS: 86-30-6

Processing Results



RT	Mass	Response	Amount
9.81	169.00	6011	4.131394
9.81	168.00	3625	
9.81	167.00	1666	

Reviewer: KDZ4, 10-Aug-2023 12:15:31 -04:00:00 (UTC)

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

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 240-189273-1

SDG No.:

Client Sample ID: 16WC1B | Lab Sample ID: 240-189273-6

Matrix: Water | Lab File ID: 16.D

Analysis Method: 8270E | Date Collected: 07/26/2023 12:05

Extract. Method: 3510C LVI | Date Extracted: 08/01/2023 08:59

Sample wt/vol: 270(mL) | Date Analyzed: 08/09/2023 13:25

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | GC Column: RXI-5SILMS/IIG ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 583312 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
99-35-4	1,3,5-Trinitrobenzene	9.3	U	9.3	2.8
130-15-4	1,4-Naphthoquinone	9.3	U	9.3	2.8
134-32-7	1-Naphthylamine	9.3	U	9.3	2.8
105-67-9	2,4-Dimethylphenol	9.3	U	9.3	2.8
51-28-5	2,4-Dinitrophenol	9.3	U	9.3	5.7
53-96-3	2-Acetylaminofluorene	9.3	U	9.3	2.8
91-59-8	2-Naphthylamine	9.3	U	9.3	6.5
109-06-8	2-Picoline	9.3	U	9.3	0.93
91-94-1	3,3'-Dichlorobenzidine	9.3	U	9.3	2.8
119-93-7	3,3'-Dimethylbenzidine	9.3	U	9.3	3.1
56-49-5	3-Methylcholanthrene	9.3	U	9.3	0.93
99-09-2	3-Nitroaniline	9.3	U	9.3	1.9
534-52-1	4,6-Dinitro-2-methylphenol	9.3	U	9.3	2.8
92-67-1	4-Aminobiphenyl	9.3	U	9.3	2.8
106-47-8	4-Chloroaniline	9.3	U	9.3	3.1
100-01-6	4-Nitroaniline	9.3	U	9.3	1.4
56-57-5	4-Nitroquinoline-1-oxide	46	U	46	4.6
57-97-6	7,12-Dimethylbenz(a)anthracene	9.3	U	9.3	1.7
98-86-2	Acetophenone	9.3	U	9.3	0.93
62-53-3	Aniline	9.3	U	9.3	1.0
140-57-8	Aramite, Total	9.3	U	9.3	3.4
100-51-6	Benzyl alcohol	9.3	U	9.3	2.8
111-91-1	Bis(2-chloroethoxy)methane	0.93	U	0.93	0.46
111-44-4	Bis(2-chloroethyl)ether	0.93	U	0.93	0.46
85-68-7	Butyl benzyl phthalate	9.3	U	9.3	0.65
510-15-6	Chlorobenzilate	9.3	U	9.3	2.8
84-74-2	Di-n-butyl phthalate	9.3	U	9.3	1.7
298-04-4	Disulfoton	9.3	U	9.3	2.8
56-38-2	Ethyl Parathion	9.3	U	9.3	2.8
52-85-7	Famphur	9.3	U	9.3	4.6
77-47-4	Hexachlorocyclopentadiene	9.3	U	9.3	2.8
67-72-1	Hexachloroethane	9.3	U	9.3	0.37

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 240-189273-1

SDG No.:

Client Sample ID: 16WC1B | Lab Sample ID: 240-189273-6

Matrix: Water | Lab File ID: 16.D

Analysis Method: 8270E | Date Collected: 07/26/2023 12:05

Extract. Method: 3510C LVI | Date Extracted: 08/01/2023 08:59

Sample wt/vol: 270(mL) | Date Analyzed: 08/09/2023 13:25

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | GC Column: RXI-5SILMS/IIG ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 583312 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
78-59-1	Isophorone	9.3	U	9.3	0.46
91-80-5	Methapyrilene	9.3	U	9.3	2.8
66-27-3	Methyl methanesulfonate	9.3	U	9.3	0.93
298-00-0	Methyl parathion	9.3	U	9.3	3.0
924-16-3	N-Nitrosodi-n-butylamine	9.3	U	9.3	2.8
621-64-7	N-Nitrosodi-n-propylamine	9.3	U	9.3	0.46
86-30-6	N-Nitrosodiphenylamine	9.3	U	9.3	0.54
10595-95-6	N-Nitrosomethylethylamine	9.3	U	9.3	0.93
930-55-2	N-Nitrosopyrrolidine	9.3	U	9.3	0.46
60-11-7	p-Dimethylamino azobenzene	9.3	U	9.3	2.8
106-50-3	p-Phenylene diamine	140	U *-	140	24
110-86-1	Pyridine	9.3	U	9.3	1.9
99-55-8	N-Nitro-o-toluidine	4.6	U	4.6	1.1
95-53-4	o-Toluidine	9.3	U	9.3	3.7
100-02-7	4-Nitrophenol	9.3	U	9.3	2.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14 (Surr)	84		31-140
4165-62-2	Phenol-d5 (Surr)	48		18-120
4165-60-0	Nitrobenzene-d5 (Surr)	78		13-120
367-12-4	2-Fluorophenol (Surr)	75		12-120
321-60-8	2-Fluorobiphenyl (Surr)	73		23-120
118-79-6	2,4,6-Tribromophenol (Surr)	55		10-126

Eurofins Cleveland
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\16.D
Lims ID: 240-189273-D-6-A
Client ID: 16WC1B
Sample Type: Client
Inject. Date: 09-Aug-2023 13:25:30 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 240-0132248-016
Misc. Info.: 240-189273-D-6-A
Operator ID: Instrument ID: A4AG2

Method: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\LVI AG2 8270.m
Limit Group: MSS 8270D ICAL
Last Update: 10-Aug-2023 12:37:20 Calib Date: 08-Aug-2023 12:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A4AG2\20230808-132200.b\10.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: KDZ4 Date: 10-Aug-2023 12:16:58

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.712	6.712	0.000	95	250477	400.0	
* 2 Naphthalene-d8	136	7.777	7.777	0.000	99	966487	400.0	
* 3 Acenaphthene-d10	164	9.277	9.277	0.000	93	584810	400.0	
* 4 Phenanthrene-d10	188	10.559	10.565	-0.006	97	987771	400.0	
* 5 Chrysene-d12	240	13.482	13.494	-0.012	98	688465	400.0	
* 6 Perylene-d12	264	15.853	15.865	-0.012	96	753325	400.0	
$ 7 2-Fluorophenol	112	5.653	5.653	0.000	90	593283	1204.3	
$ 8 Phenol-d5	99	6.371	6.371	0.000	0	720669	773.2	
$ 9 Nitrobenzene-d5	82	7.159	7.159	0.000	86	1048593	1245.0	
$ 10 2-Fluorobiphenyl (Surr)	172	8.665	8.665	0.000	100	2299582	1171.7	
$ 11 2,4,6-Tribromophenol	330	9.953	9.953	0.000	90	162971	872.0	
$ 12 Terphenyl-d14	244	12.047	12.047	0.000	97	2650681	1338.8	
28 Pyridine	79		4.548				ND	
31 2-Picoline	93		5.183				ND	
32 N-Nitrosomethylethylamine	88		5.254				ND	
34 Methyl methanesulfonate	80		5.483				ND	
44 Aniline	93		6.430				ND	
45 Bis(2-chloroethyl)ether	93		6.453				ND	
50 Benzyl alcohol	108		6.794				ND	
56 N-Nitrosopyrrolidine	100		6.995				ND	
57 N-Nitrosodi-n-propylamine	70		7.000				ND	
58 Acetophenone	105		7.018				ND	U
60 2-Toluidine	106		7.053				ND	
61 Hexachloroethane	117		7.147				ND	
64 Isophorone	82		7.359				ND	
66 2,4-Dimethylphenol	107		7.441				ND	
69 Bis(2-chloroethoxy)methane	93		7.506				ND	
75 4-Chloroaniline	127		7.818				ND	
82 N-Nitrosodi-n-butylamine	84		8.065				ND	
84 p-Phenylene diamine	108		8.106				ND	
89 Hexachlorocyclopentadiene	237		8.506				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ml	Flags
102 1,4-Naphthoquinone	158		8.930				ND	
109 3-Nitroaniline	138		9.212				ND	
110 2,4-Dinitrophenol	184		9.288				ND	
112 4-Nitrophenol	109		9.330				ND	
117 1-Naphthylamine	143		9.512				ND	
119 2-Naphthylamine	143		9.577				ND	
123 N-Nitro-o-toluidine	152		9.736				ND	
125 4-Nitroaniline	138		9.741				ND	
127 4,6-Dinitro-2-methylphenol	198		9.753				ND	
128 N-Nitrosodiphenylamine	169		9.806				ND	
133 1,3,5-Trinitrobenzene	213		10.000				ND	
142 4-Aminobiphenyl	169		10.365				ND	
146 Disulfoton	88		10.494				ND	
152 Methyl parathion	109		10.836				ND	U
154 Di-n-butyl phthalate	149	10.971	10.971	0.000	99	101096	29.6	
155 Ethyl Parathion	97		11.171				ND	
156 4-Nitroquinoline-1-oxide	190		11.259				ND	
157 Methapyrilene	58		11.283				ND	
162 Aramite Peak 1	185		11.965				ND	U
163 Aramite Peak 2	185		12.047				ND	U
164 p-Dimethylamino azobenzene	225		12.206				ND	
165 Chlorobenzilate	139		12.235				ND	
168 Famphur	218		12.541				ND	
169 Butyl benzyl phthalate	149		12.576				ND	
170 3,3'-Dimethylbenzidine	212		12.618				ND	
172 2-Acetylaminofluorene	181		12.971				ND	
177 3,3'-Dichlorobenzidine	252		13.382				ND	
182 7,12-Dimethylbenz(a)anthracene	256		15.176				ND	
186 3-Methylcholanthrene	268		16.370				ND	
S 196 Aramite, Total	185		7.898				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

SMIS80PPMW_00027 Amount Added: 5.00 Units: uL Run Reagent

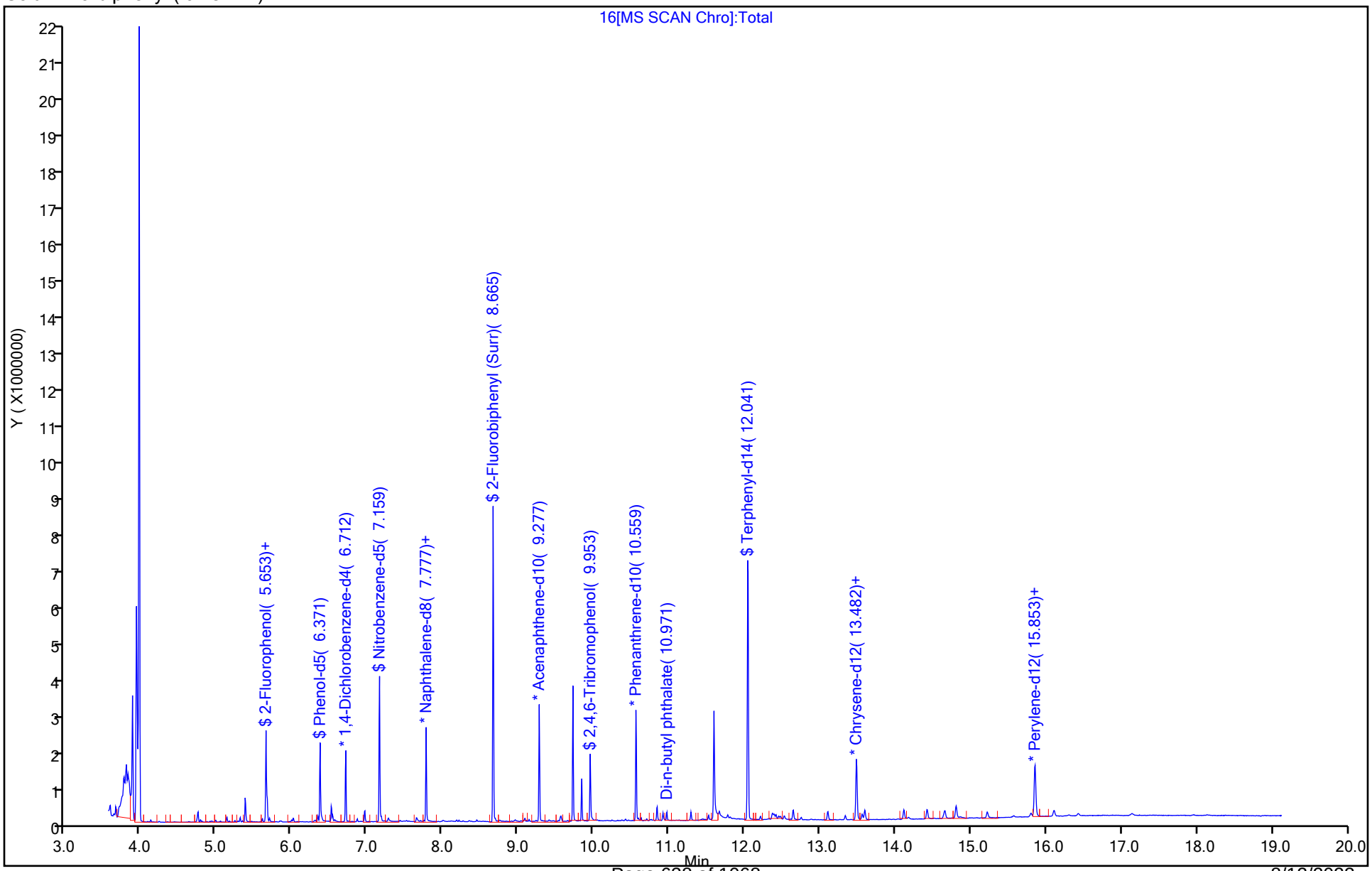
Report Date: 10-Aug-2023 12:43:33 Chrom Revision: 2.3 03-Aug-2023 16:11:04

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\16.D

Injection Date:	09-Aug-2023 13:25:30	Instrument ID:	A4AG2	Operator ID:	
Lims ID:	240-189273-D-6-A	Lab Sample ID:	240-189273-6	Worklist Smp#:	16
Client ID:	16WC1B				
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		

Column: 5% phenyl (0.18 mm)



Eurofins Cleveland
Recovery Report

Data File: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\16.D
Lims ID: 240-189273-D-6-A
Client ID: 16WC1B
Sample Type: Client
Inject. Date: 09-Aug-2023 13:25:30 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 240-0132248-016
Misc. Info.: 240-189273-D-6-A
Operator ID: Instrument ID: A4AG2

Method: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\LVI AG2 8270.m
Limit Group: MSS 8270D ICAL
Last Update: 10-Aug-2023 12:37:20 Calib Date: 08-Aug-2023 12:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A4AG2\20230808-132200.b\10.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: KDZ4 Date: 10-Aug-2023 12:16:58

Compound	Amount Added	Amount Recovered	% Rec.
$ 7 2-Fluorophenol	1600.0	1204.3	75.27
$ 8 Phenol-d5	1600.0	773.2	48.32
$ 9 Nitrobenzene-d5	1600.0	1245.0	77.81
$ 10 2-Fluorobiphenyl (Surr)	1600.0	1171.7	73.23
$ 11 2,4,6-Tribromophenol	1600.0	872.0	54.50
$ 12 Terphenyl-d14	1600.0	1338.8	83.68

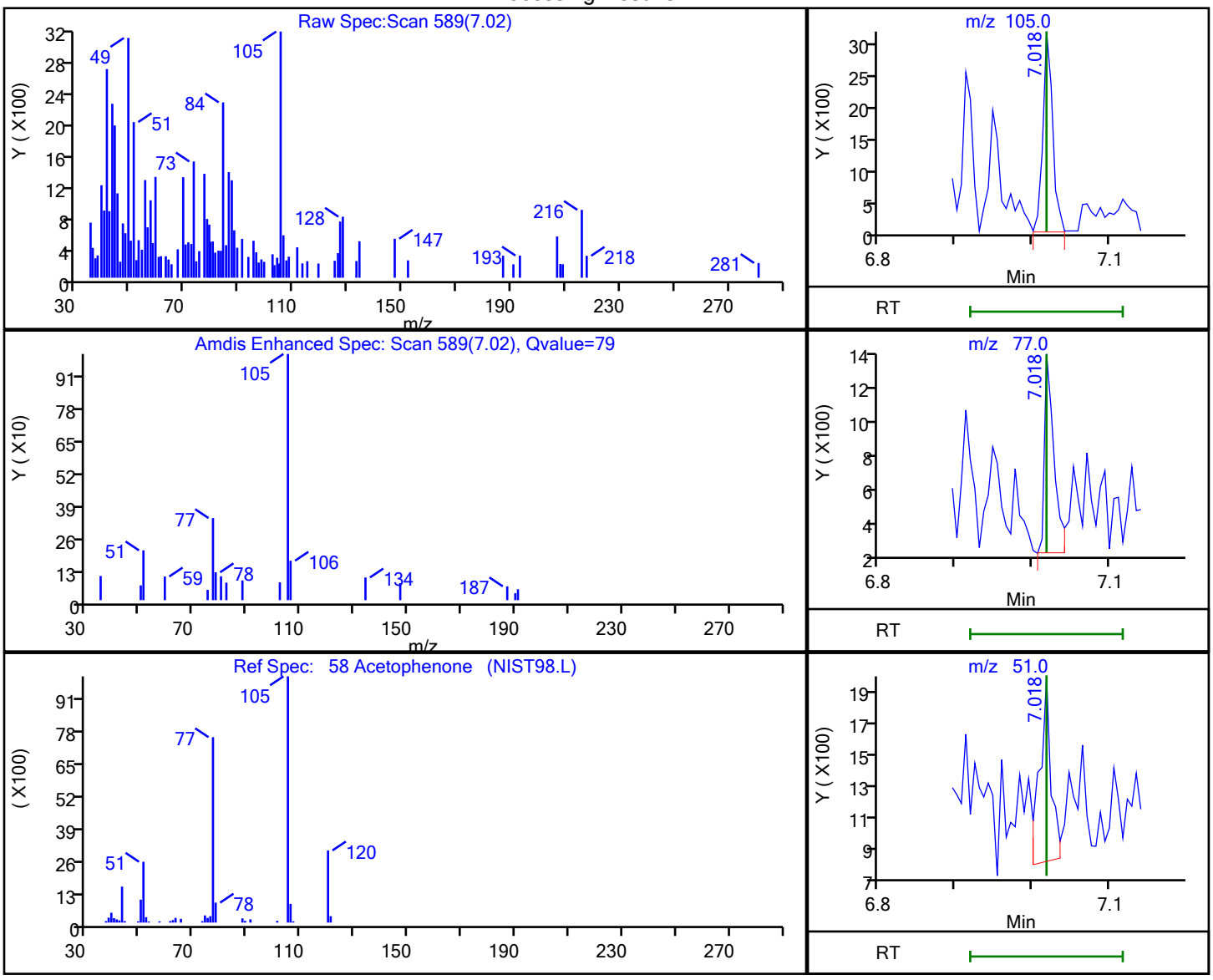
User Disabled Compound Report

Eurofins Cleveland

Data File:	\\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\16.D				
Injection Date:	09-Aug-2023 13:25:30	Instrument ID:	A4AG2		
Lims ID:	240-189273-D-6-A	Lab Sample ID:	240-189273-6		
Client ID:	16WC1B				
Operator ID:		ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

58 Acetophenone, CAS: 98-86-2

Processing Results



RT	Mass	Response	Amount
7.02	105.00	2739	2.086831
7.02	77.00	957	
7.02	51.00	1187	

Reviewer: KDZ4, 10-Aug-2023 12:16:32 -04:00:00 (UTC)

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

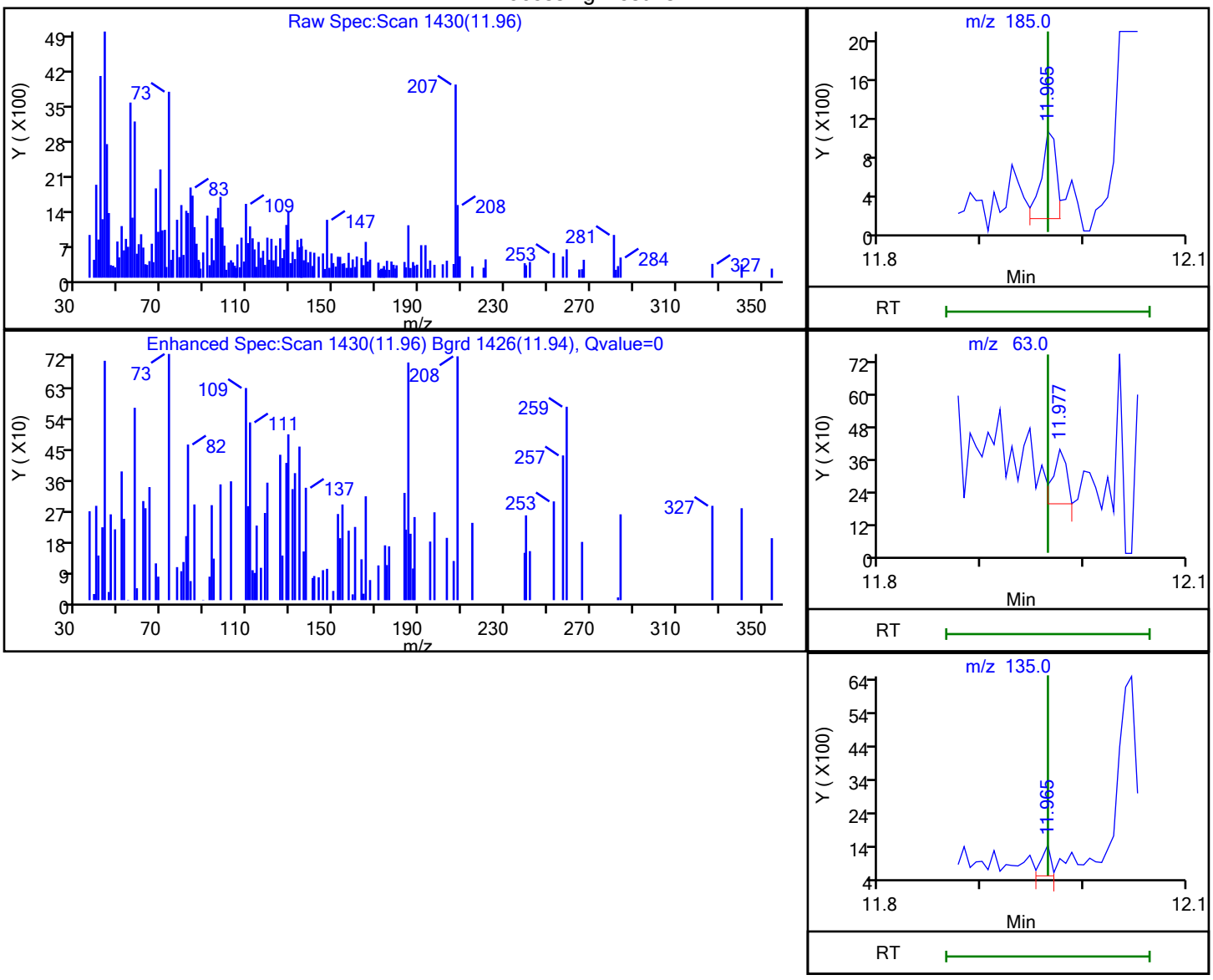
User Disabled Compound Report

Eurofins Cleveland

Data File:	\\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\16.D				
Injection Date:	09-Aug-2023 13:25:30	Instrument ID:	A4AG2		
Lims ID:	240-189273-D-6-A	Lab Sample ID:	240-189273-6		
Client ID:	16WC1B				
Operator ID:		ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

162 Aramite Peak 1, CAS: STL00690

Processing Results



RT	Mass	Response	Amount
11.96	185.00	952	15.240177
11.98	63.00	186	
11.96	135.00	600	

Reviewer: KDZ4, 10-Aug-2023 12:16:45 -04:00:00 (UTC)

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

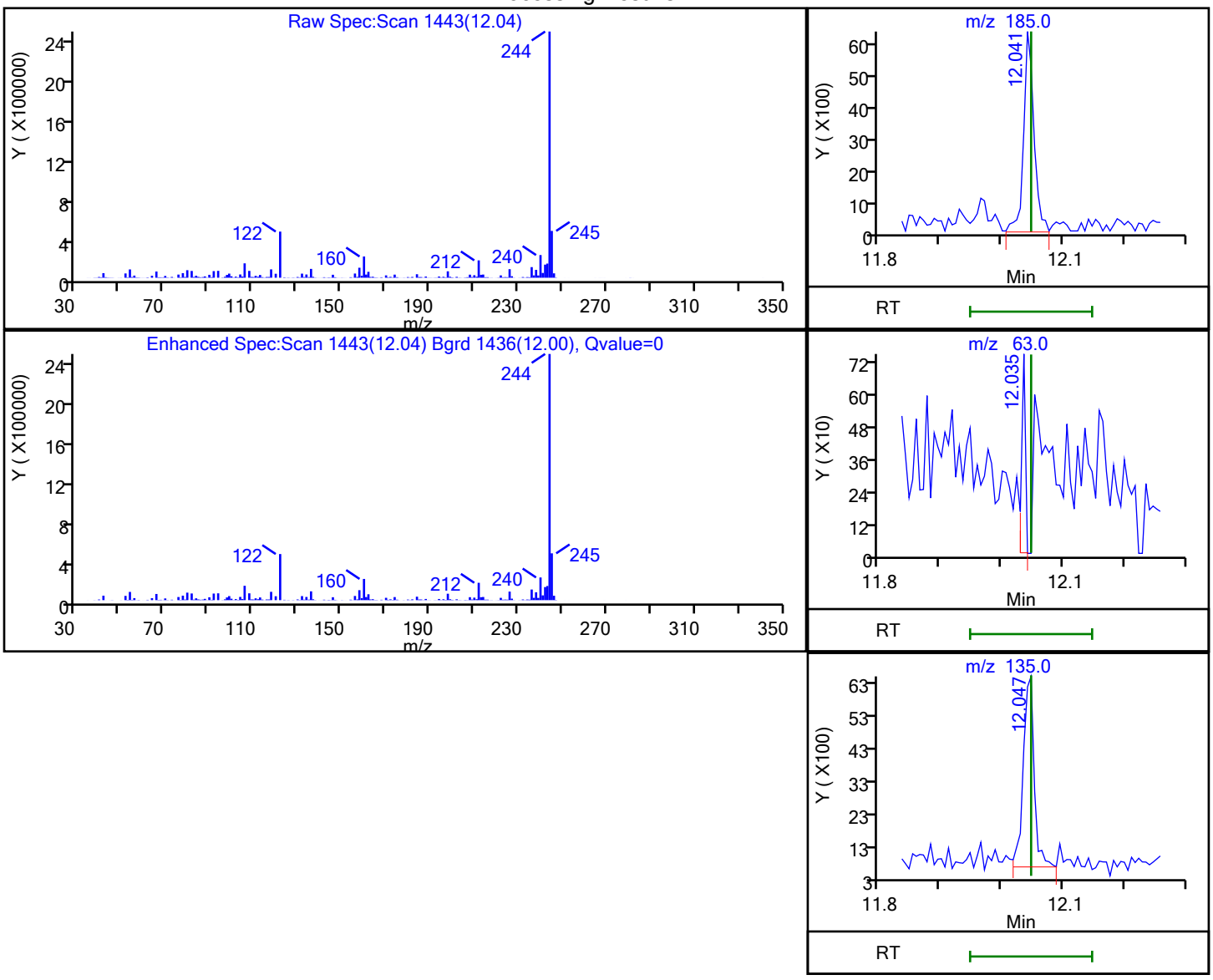
User Disabled Compound Report

Eurofins Cleveland

Data File:	\\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\16.D				
Injection Date:	09-Aug-2023 13:25:30	Instrument ID:	A4AG2		
Lims ID:	240-189273-D-6-A	Lab Sample ID:	240-189273-6		
Client ID:	16WC1B				
Operator ID:		ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

163 Aramite Peak 2, CAS: STL00691

Processing Results



RT	Mass	Response	Amount
12.04	185.00	7415	35.085059
12.04	63.00	318	
12.05	135.00	7232	

Reviewer: KDZ4, 10-Aug-2023 12:16:47 -04:00:00 (UTC)

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

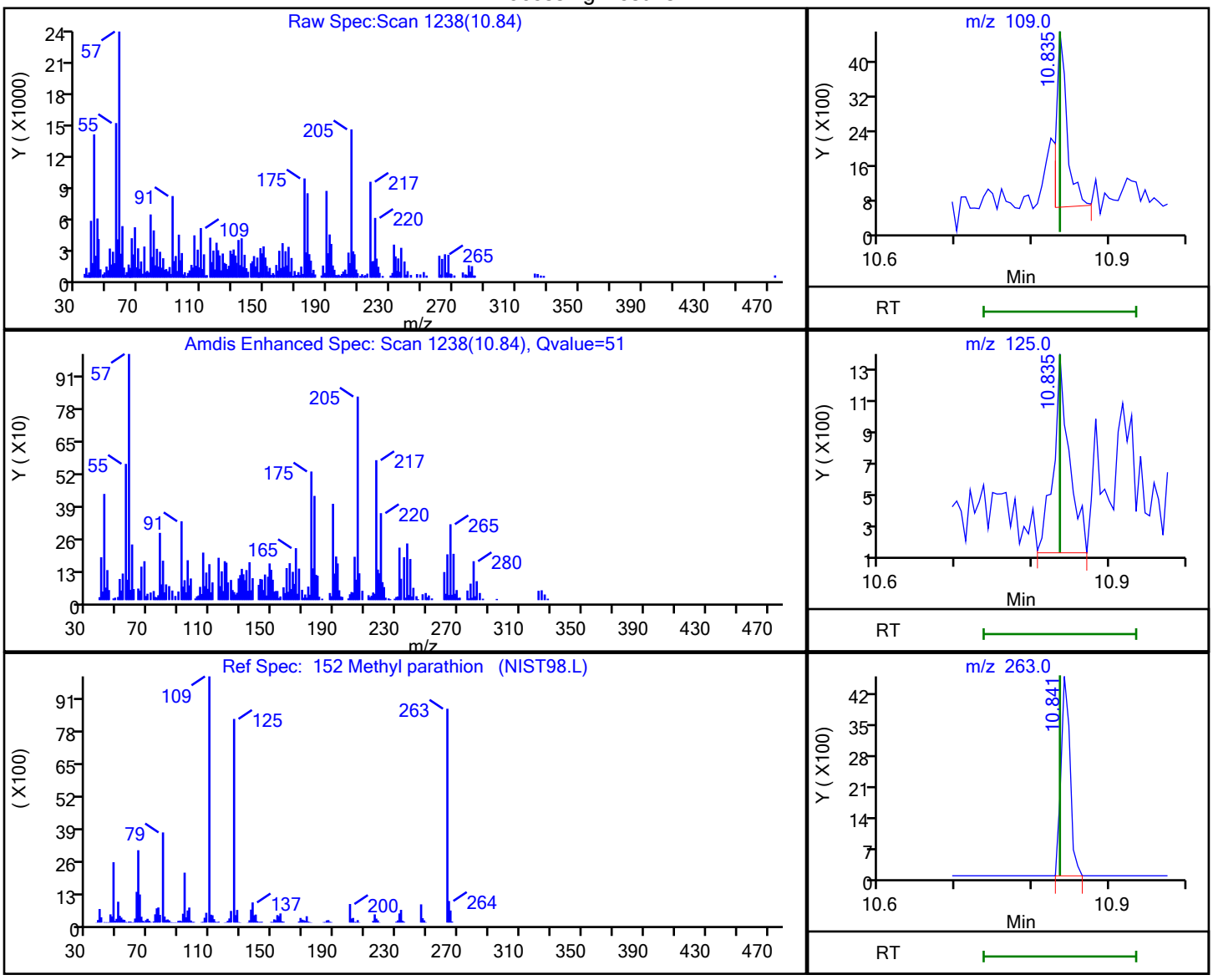
User Disabled Compound Report

Eurofins Cleveland

Data File:	\\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\16.D				
Injection Date:	09-Aug-2023 13:25:30	Instrument ID:	A4AG2		
Lims ID:	240-189273-D-6-A	Lab Sample ID:	240-189273-6		
Client ID:	16WC1B				
Operator ID:		ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

152 Methyl parathion, CAS: 298-00-0

Processing Results



RT	Mass	Response	Amount
10.84	109.00	3812	40.779180
10.84	125.00	1627	
10.84	263.00	3751	

Reviewer: KDZ4, 10-Aug-2023 12:16:40 -04:00:00 (UTC)

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 Cleveland Job No.: 240-189273-1 Analy Batch No.: 581832

SDG No.:

Instrument ID: A4AG2 GC Column: RXI-5SILMS/ ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/26/2023 08:38 Calibration End Date: 07/26/2023 11:48 Calibration ID: 71263

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-581832/7	7.D
Level 2	STD2 240-581832/6	6.D
Level 3	STD3 240-581832/5	5.D
Level 4	STD4 240-581832/4	CCV L3LVI.D
Level 5	STD5 240-581832/3	CCV L2LVI.D
Level 6	STD6 240-581832/2	CCV L1LVI.D
Level 7	STD7 240-581832/8	8.D
Level 8	STD8 240-581832/9	9.D
Level 9	STD9 240-581832/10	10.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
1,4-Dioxane	0.2595	0.2555 0.2219	0.2552 0.2466	0.2206 +++++	0.1979	Ave		0.2367				9.9		20.0			
N-Nitrosodimethylamine	0.8583	0.7624 0.9217	0.7843 0.8841	0.8102 0.8875	0.8049	Ave		0.8392				6.8		20.0			
Pyridine	0.4872 0.7210	0.6534 0.7151	0.6984 +++++	0.6073 +++++	0.5390	Ave		0.6316				14.4		20.0			
Benzaldehyde	+++++ 0.6580	0.9817 0.6130	1.0797 0.5379	0.9652 +++++	0.8589	Qua	60.259	0.7964	-0.000069		0.0100				0.9970		0.9900
Phenol	1.4902	1.3321 1.5705	1.5394 1.6559	1.6575 1.7785	1.3636	Ave		1.5484			0.8000	9.8		20.0			
Aniline	2.4436	1.6636 2.2307	2.0161 2.2275	2.1055 2.3270	2.5031	Ave		2.1896				12.2		20.0			
Bis(2-chloroethyl)ether	1.5820	1.5098 1.5088	1.5067 1.4523	1.5427 1.4630	1.6824	Ave		1.5309			0.7000	4.8		20.0			
2-Chlorophenol	1.4080	1.1673 1.4446	1.4063 1.4155	1.4576 1.4533	1.4168	Ave		1.3962			0.8000	6.8		20.0			
n-Decane	1.3821	1.3118 1.2494	1.3536 1.3019	1.4076 +++++	1.2923	Ave		1.3284				4.2		20.0			
1,3-Dichlorobenzene	1.6446	1.5642 1.5842	1.6512 1.6094	1.6261 1.5659	1.6392	Ave		1.6106				2.2		20.0			
1,4-Dichlorobenzene	1.6715	1.6317 1.6477	1.7307 1.6304	1.6668 1.6123	1.6760	Ave		1.6584				2.2		20.0			
Benzyl alcohol	1.0859	0.6106 0.9884	0.7924 0.9867	0.8933 1.0210	1.1063	Ave		0.9356				17.7		20.0			

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

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

Lab Name: Eurofins Cleveland Job No.: 240-189273-1 Analy Batch No.: 581832

SDG No.:

Instrument ID: A4AG2 GC Column: RXI-5SILMS/ ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/26/2023 08:38 Calibration End Date: 07/26/2023 11:48 Calibration ID: 71263

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
1,2-Dichlorobenzene	1.6250	1.5650 1.5841	1.6617 1.5304	1.6163 1.5407	1.6750	Ave		1.5998				3.4		20.0			
2-Methylphenol	1.4675	1.0682 1.3782	1.2518 1.3233	1.3541 1.3825	1.4393	Ave		1.3331			0.7000	9.5		20.0			
2,2'-oxybis[1-chloropropane]	2.0205	1.7983 1.8233	2.2695 1.7542	2.0681 1.8054	2.2206	Ave		1.9700				10.3		20.0			
Indene	2.8826	2.7082 2.6607	3.0060 2.4267	2.8656 2.2790	3.0964	Ave		2.7406				10.2		20.0			
3 & 4 Methylphenol	1.5824	0.8238 1.4071	1.0731 1.3805	1.1662 1.4436	1.5721	Lin1	-31.73	1.4630							0.9960		0.9900
N-Nitrosodi-n-propylamine	1.0873	0.8395 1.0065	0.9908 0.9781	1.0496 1.0075	1.1634	Ave		1.0154			0.5000	9.2		20.0			
Acetophenone	2.2160	1.8927 2.0466	2.0740 1.9796	2.1507 2.0399	2.3686	Ave		2.0960			0.0100	7.0		20.0			
Hexachloroethane	0.6062	0.5790 0.5980	0.6221 0.6018	0.5873 0.6053	0.6122	Ave		0.6015			0.3000	2.3		20.0			
Nitrobenzene	0.3504	0.2859 0.3351	0.3361 0.3370	0.3365 0.3329	0.3467	Ave		0.3326			0.2000	6.0		20.0			
Isophorone	0.6929	0.5456 0.6574	0.6318 0.6783	0.6523 0.6581	0.6814	Ave		0.6497			0.4000	7.1		20.0			
2,4-Dimethylphenol	0.3142	0.1969 0.3042	0.2331 0.3051	0.2624 0.2965	0.3090	Ave		0.2777			0.2000	15.4		20.0			
2-Nitrophenol	0.1795	0.0999 0.1714	0.1206 0.1862	0.1389 0.1822	0.1649	Lin1	-5.565	0.1830			0.1000				0.9990		0.9900
Benzoic acid	0.1447	+++++ 0.1434	0.0291 0.1796	0.0500 0.1805	0.1051	Qua	-28.35	0.1278	0.0000123						0.9960		0.9900
Bis(2-chloroethoxy)methane	0.4121	0.3792 0.3904	0.4197 0.3944	0.4099 0.3825	0.4075	Ave		0.3995			0.3000	3.7		20.0			
2,4-Dichlorophenol	0.2748	0.1075 0.2612	0.1664 0.2694	0.2037 0.2636	0.2611	Lin1	-9.212	0.2715			0.2000				0.9990		0.9900
1,2,4-Trichlorobenzene	0.2796	0.2611 0.2767	0.2814 0.2833	0.2787 0.2767	0.2744	Ave		0.2765				2.5		20.0			
Naphthalene	1.1118 1.1510	1.0764 1.1034	1.1696 1.0901	1.1354 1.0024	1.1482	Ave		1.1098			0.7000	4.6		20.0			
4-Chloroaniline	0.4447	0.2391 0.4501	0.3333 0.4543	0.3844 0.4181	0.4168	Ave		0.3926			0.0100	18.8		20.0			

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

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

Lab Name: Eurofins Cleveland Job No.: 240-189273-1 Analy Batch No.: 581832

SDG No.:

Instrument ID: A4AG2 GC Column: RXI-5SILMS/ ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/26/2023 08:38 Calibration End Date: 07/26/2023 11:48 Calibration ID: 71263

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
2,6-Dichlorophenol	0.2806	0.1764 0.2687	0.1979 0.2765	0.2439 0.2714	0.2753	Lin1	-5.738	0.2772							0.9990		0.9900
Hexachlorobutadiene	0.1268	0.1222 0.1237	0.1205 0.1278	0.1224 0.1251	0.1234	Ave		0.1240			0.0100	2.0		20.0			
Caprolactam	0.0563 0.1213	0.0758 0.1162	0.0955 0.1213	0.1108 0.1119	0.1160	Lin1	-1.844	0.1171			0.0100				0.9980		0.9900
4-Chloro-3-methylphenol	0.3047	0.1488 0.2977	0.2209 0.3174	0.2700 0.2969	0.2974	Lin1	-8.015	0.3089			0.2000				0.9990		0.9900
2-Methylnaphthalene	0.6779 0.7401	0.6932 0.7161	0.6959 0.7243	0.7396 0.6885	0.7427	Ave		0.7131			0.4000	3.5		20.0			
1-Methylnaphthalene	0.6361 0.6854	0.6518 0.6630	0.6610 0.6722	0.6929 0.6435	0.6880	Ave		0.6660				3.0		20.0			
Hexachlorocyclopentadiene	0.2541	0.1746 0.2457	0.1885 0.2590	0.2022 0.2541	0.2381	Ave		0.2270			0.0500	14.7		20.0			
1,2,4,5-Tetrachlorobenzene	0.4830	0.4076 0.4615	0.4166 0.4639	0.4332 0.4603	0.4763	Ave		0.4503			0.0100	6.2		20.0			
2,4,6-Trichlorophenol	0.3321	0.1900 0.3164	0.2313 0.3357	0.2672 0.3347	0.3140	Lin1	-9.086	0.3351			0.2000				0.9990		0.9900
2,4,5-Trichlorophenol	0.3459	0.0849 0.3359	0.1199 0.3539	0.2464 0.3487	0.3350	Lin1	-17.28	0.3568			0.2000				0.9990		0.9900
1,1'-Biphenyl	1.6565 1.6670	1.5898 1.5946	1.6500 1.5734	1.6162 1.5163	1.6954	Ave		1.6177			0.0100	3.4		20.0			
2-Chloronaphthalene	1.1198 1.2254	1.1732 1.1743	1.1697 1.2032	1.1884 1.1604	1.2212	Ave		1.1817			0.8000	2.8		20.0			
2-Nitroaniline	0.3363	0.2352 0.3193	0.2433 0.3520	0.2845 0.3497	0.3236	Lin1	-8.117	0.3456			0.0100				0.9980		0.9900
Dimethyl phthalate	1.3922	1.2500 1.3435	1.3396 1.3364	1.3130 1.3039	1.3645	Ave		1.3304			0.0100	3.2		20.0			
1,3-Dinitrobenzene	0.2035	0.0930 0.1981	0.1211 0.2148	0.1419 0.2113	0.1884	Lin1	-8.157	0.2118							0.9980		0.9900
2,6-Dinitrotoluene	0.3105	0.1914 0.3084	0.2439 0.3162	0.2717 0.3055	0.3065	Ave		0.2818				15.6		20.0			
Acenaphthylene	1.6631 2.0858	1.8559 2.0114	1.9379 2.0063	1.9543 1.8852	2.0825	Ave		1.9425			0.9000	6.8		20.0			
3-Nitroaniline	0.2176	0.1612 0.2208	0.2380 0.2397	0.2682 +++++	0.2376	Ave		0.2262			0.0100	14.6		20.0			

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

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

Lab Name: Eurofins Cleveland Job No.: 240-189273-1 Analy Batch No.: 581832

SDG No.:

Instrument ID: A4AG2 GC Column: RXI-5SILMS/ ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/26/2023 08:38 Calibration End Date: 07/26/2023 11:48 Calibration ID: 71263

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
2,4-Dinitrophenol	0.1131	+++++ 0.1198	0.0365 0.1476	0.0524 0.1492	0.0878	Qua	-18.86	0.0992	0.0000113		0.0100				0.9970		0.9900
Acenaphthene	1.2734 1.2922	1.3097 1.2286	1.3064 1.2037	1.2701 1.1601	1.3181	Ave		1.2625			0.9000	4.3		20.0			
4-Nitrophenol	0.1516	0.0833 0.1507	0.1050 0.1553	0.1191 0.1529	0.1364	Lin1	-9.255	0.1547							0.9990		0.9900
2,4-Dinitrotoluene	0.3960	0.2036 0.3848	0.2657 0.4108	0.3194 0.3984	0.3870	Lin1	-12.04	0.4052			0.2000				0.9990		0.9900
Dibenzofuran	1.2568 1.7016	1.4351 1.6353	1.7222 1.6680	1.6739 1.5987	1.7209	Ave		1.6014			0.8000	9.8		20.0			
2,3,4,6-Tetrachlorophenol	0.2272	0.0781 0.2163	0.1399 0.2339	0.1866 0.2336	0.2230	Lin1	-8.446	0.2341			0.0100				0.9990		0.9900
Diethyl phthalate	1.3641	1.2571 1.3174	1.3681 1.3303	1.3421 1.2776	1.3836	Ave		1.3300			0.0100	3.3		20.0			
4-Chlorophenyl phenyl ether	0.5595	0.4965 0.5526	0.5533 0.5692	0.5423 0.5582	0.5614	Ave		0.5491			0.4000	4.1		20.0			
4-Nitroaniline	0.2931	0.1936 0.2491	0.2613 0.2321	0.3002 0.2140	0.3008	Qua	-4.151	0.3289	-0.000046		0.0100				0.9990		0.9900
Fluorene	1.2323 1.4231	1.2458 1.3783	1.4186 1.3582	1.3742 1.2722	1.4241	Ave		1.3474			0.9000	5.7		20.0			
4,6-Dinitro-2-methylphenol	0.1213	+++++ 0.1216	0.0440 0.1400	0.0663 0.1442	0.0917	Qua	-17.28	0.1086	0.0000080		0.0100				0.9980		0.9900
Diphenylamine	0.8039	0.6718 0.7387	0.7288 0.7580	0.7237 0.7388	0.7371	Ave		0.7376				5.0		20.0			
N-Nitrosodiphenylamine	0.6833	0.5710 0.6279	0.6194 0.6443	0.6152 0.6280	0.6266	Ave		0.6270			0.0100	5.0		20.0			
Azobenzene	0.9556	0.8071 0.9134	0.9227 0.9383	0.9125 0.9170	0.8849	Ave		0.9065				5.0		20.0			
4-Bromophenyl phenyl ether	0.2009	0.1607 0.1911	0.1810 0.1983	0.1789 0.1970	0.1816	Ave		0.1862			0.1000	7.2		20.0			
Atrazine	0.1434 0.2295	0.1694 0.2115	0.1867 0.2051	0.1952 0.1874	0.1991	Ave		0.1919			0.0100	12.9		20.0			
Hexachlorobenzene	0.1544 0.2073	0.1389 0.1984	0.1695 0.2018	0.1782 0.1981	0.1852	Lin1	-1.173	0.1995			0.1000				0.9990		0.9900
n-Octadecane	0.5971	0.4906 0.5932	0.5485 0.5779	0.5913 0.5589	0.5841	Ave		0.5677				6.3		20.0			

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

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

Lab Name: Eurofins Cleveland Job No.: 240-189273-1 Analy Batch No.: 581832

SDG No.:

Instrument ID: A4AG2 GC Column: RXI-5SILMS/ ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/26/2023 08:38 Calibration End Date: 07/26/2023 11:48 Calibration ID: 71263

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Pentachlorophenol	0.1184	+++++ 0.1242	0.0494 0.1399	0.0677 0.1417	0.0968	Qua	-18.16	0.1135	0.0000067		0.0500				0.9990		0.9900
Phenanthrene	1.1740 1.2406	1.1130 1.1866	1.1947 1.1828	1.1785 1.1535	1.2007	Ave		1.1805			0.7000	2.9		20.0			
Anthracene	0.9391 1.2656	1.0146 1.2104	1.1185 1.2164	1.1532 1.1792	1.1894	Ave		1.1429			0.7000	9.1		20.0			
Carbazole	1.1218	0.9612 1.0637	1.0343 1.0679	1.0414 0.9633	1.0685	Ave		1.0403			0.0100	5.3		20.0			
Di-n-butyl phthalate	1.5731	1.1101 1.4881	1.2665 1.4781	1.3254 1.3751	1.4535	Ave		1.3837			0.0100	10.7		20.0			
Fluoranthene	0.8340 1.1898	0.9590 1.1320	1.0285 1.1210	1.0220 1.0803	1.0471	Ave		1.0460			0.6000	10.0		20.0			
Benzidine	0.5031	0.0839 0.5738	0.2250 0.6584	0.3224 0.6969	0.4313	Qua	-44.64	0.4198	0.0000584						0.9990		0.9900
Pyrene	1.3625 1.6654	1.4438 1.6100	1.6088 1.6077	1.6359 1.5780	1.6642	Ave		1.5751			0.6000	6.6		20.0			
Butyl benzyl phthalate	0.8891	0.5258 0.8504	0.6364 0.8894	0.7365 0.8945	0.8207	Lin1	-22.76	0.8929			0.0100				0.9990		0.9900
Bis(2-ethylhexyl) phthalate	1.2590	0.6203 1.1798	0.8465 1.2552	0.9855 1.2416	1.1613	Lin1	-37.23	1.2528			0.0100				0.9990		0.9900
3,3'-Dichlorobenzidine	0.4433	0.2434 0.4415	0.3403 0.4589	0.3989 0.4671	0.4357	Lin1	-23.77	0.4624			0.0100				1.0000		0.9900
Benzo[a]anthracene	1.1644 1.3818	1.1968 1.4006	1.2898 1.4498	1.3324 1.4036	1.3807	Ave		1.3333			0.8000	7.3		20.0			
Chrysene	1.2918 1.3714	1.2198 1.3362	1.3152 1.3908	1.3632 1.3268	1.3473	Ave		1.3292			0.7000	3.8		20.0			
Di-n-octyl phthalate	2.0156	0.7660 1.9227	1.0945 2.0669	1.4854 2.0746	1.8391	Lin1	-83.32	2.0702			0.0100				0.9990		0.9900
Benzo[b]fluoranthene	0.9825 1.3186	1.0464 1.3304	1.1854 1.3476	1.2231 1.3851	1.3160	Ave		1.2372			0.7000	11.4		20.0			
Benzo[k]fluoranthene	1.0182 1.3117	1.0809 1.3758	1.2984 1.4260	1.2869 1.3783	1.3283	Ave		1.2783			0.7000	10.8		20.0			
Benzo[a]pyrene	0.7057 1.1961	0.8782 1.2152	1.0130 1.2655	1.1022 1.2657	1.1825	Lin1	-9.731	1.2425			0.7000				0.9990		0.9900
Indeno[1,2,3-cd]pyrene	0.8231 1.3631	0.9655 1.3766	1.1730 1.3981	1.2384 1.4026	1.3340	Lin1	-10.17	1.3881			0.5000				0.9990		0.9900

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

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

Lab Name: Eurofins Cleveland Job No.: 240-189273-1 Analy Batch No.: 581832

SDG No.:

Instrument ID: A4AG2 GC Column: RXI-5SILMS/ ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/26/2023 08:38 Calibration End Date: 07/26/2023 11:48 Calibration ID: 71263

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Dibenz(a,h)anthracene	0.7238 1.1370	0.8454 1.1315	0.9632 1.1787	1.0272 1.1804	1.1079	Lin1	-8.240	1.1606			0.4000				0.9990		0.9900
Benzo[g,h,i]perylene	0.8237 1.0837	0.8233 1.0836	0.9812 1.1016	1.0317 1.0864	1.0826	Ave		1.0109			0.5000	11.1		20.0			
2-Fluorophenol (Surr)	0.6612 0.7815	0.7971 0.7635	0.8574 0.8149	0.8938 +++++	0.7246	Ave		0.7867				9.3		20.0			
Phenol-d5 (Surr)	1.3940 1.4671	1.2735 1.5313	1.4367 1.6143	1.6104 1.7185	1.3506	Ave		1.4885				9.6		20.0			
Nitrobenzene-d5 (Surr)	0.2810 0.3780	0.2964 0.3669	0.3557 0.3732	0.3531 0.3626	0.3703	Ave		0.3486				10.1		20.0			
2-Fluorobiphenyl (Surr)	1.2493 1.3978	1.3473 1.3408	1.3973 1.3454	1.3109 1.2943	1.3988	Ave		1.3424				3.8		20.0			
2,4,6-Tribromophenol (Surr)	+++++ 0.1250	0.0576 0.1239	0.0884 0.1356	0.1036 0.1337	0.1185	Lin1	-4.486	0.1330							0.9990		0.9900
Terphenyl-d14 (Surr)	1.1068 1.1504	1.0656 1.1414	1.1512 1.1942	1.1934 1.1754	1.1742	Ave		1.1503				3.7		20.0			

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

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

Lab Name: Eurofins Cleveland Job No.: 240-189273-1 Analy Batch No.: 581832

SDG No.:

Instrument ID: A4AG2 GC Column: RXI-5SILMS/ ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/26/2023 08:38 Calibration End Date: 07/26/2023 11:48 Calibration ID: 71263

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-581832/7	7.D
Level 2	STD2 240-581832/6	6.D
Level 3	STD3 240-581832/5	5.D
Level 4	STD4 240-581832/4	CCV L3LVI.D
Level 5	STD5 240-581832/3	CCV L2LVI.D
Level 6	STD6 240-581832/2	CCV L1LVI.D
Level 7	STD7 240-581832/8	8.D
Level 8	STD8 240-581832/9	9.D
Level 9	STD9 240-581832/10	10.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
1,4-Dioxane	DCBd 4	Ave	153845	7574 197701	15002 331653	26075 +++++	54609	1000	50.0 1500	100 2000	200 +++++	500
N-Nitrosodimethylamine	DCBd 4	Ave	508841	22603 821232	46105 1189020	95780 1407518	222093	1000	50.0 1500	100 2000	200 2500	500
Pyridine	DCBd 4	Ave	5443 854799	38742 1274342	82111 +++++	143595 +++++	297467	20.0 2000	100 3000	200 +++++	400 +++++	1000
Benzaldehyde	DCBd 4	Qua	+++++ 780174	58213 1092265	126949 1446905	228213 +++++	473967	+++++ 2000	100 3000	200 4000	400 +++++	1000
Phenol	DCBd 4	Ave	883418	39495 1399273	90495 2227023	195949 2820464	376245	1000	50.0 1500	100 2000	200 2500	500
Aniline	DCBd 4	Ave	1448657	49322 1987525	118518 2995713	248917 3690381	690671	1000	50.0 1500	100 2000	200 2500	500
Bis(2-chloroethyl)ether	DCBd 4	Ave	937849	44763 1344331	88575 1953143	182380 2320103	464206	1000	50.0 1500	100 2000	200 2500	500
2-Chlorophenol	DCBd 4	Ave	834692	34609 1287100	82672 1903724	172319 2304784	390939	1000	50.0 1500	100 2000	200 2500	500

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

Lab Name: Eurofins Cleveland Job No.: 240-189273-1 Analy Batch No.: 581832

SDG No.:

Instrument ID: A4AG2 GC Column: RXI-5SILMS/ ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/26/2023 08:38 Calibration End Date: 07/26/2023 11:48 Calibration ID: 71263

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
n-Decane	DCBd 4	Ave	819355	1113162	1750897	+++++		1000	1500	2000	+++++	
				38892	79577	166413	356566		50.0	100	200	500
1,3-Dichlorobenzene	DCBd 4	Ave	974943	1411464	2164549	2483275		1000	1500	2000	2500	
				46377	97071	192243	452311		50.0	100	200	500
1,4-Dichlorobenzene	DCBd 4	Ave	990905	1468032	2192684	2556968		1000	1500	2000	2500	
				48376	101744	197057	462448		50.0	100	200	500
Benzyl alcohol	DCBd 4	Ave	643761	880680	1327032	1619198		1000	1500	2000	2500	
				18103	46584	105608	305244		50.0	100	200	500
1,2-Dichlorobenzene	DCBd 4	Ave	963370	1411376	2058300	2443315		1000	1500	2000	2500	
				46399	97689	191084	462167		50.0	100	200	500
2-Methylphenol	DCBd 4	Ave	869955	1227965	1779760	2192439		1000	1500	2000	2500	
				31670	73588	160090	397150		50.0	100	200	500
2,2'-oxybis[1-chloropropane]	DCBd 4	Ave	1197789	1624499	2359299	2863175		1000	1500	2000	2500	
				53318	133417	244490	612713		50.0	100	200	500
Indene	DCBd 4	Ave	3417783	4741221	6527228	7228406		2000	3000	4000	5000	
				160586	353422	677551	1708738		100	200	400	1000
3 & 4 Methylphenol	DCBd 4	Lin1	938083	1253737	1856669	2289425		1000	1500	2000	2500	
				24424	63086	137870	433772		50.0	100	200	500
N-Nitrosodi-n-propylamine	DCBd 4	Ave	644603	896780	1315403	1597841		1000	1500	2000	2500	
				24890	58247	124089	321024		50.0	100	200	500
Acetophenone	DCBd 4	Ave	1313701	1823508	2662393	3235073		1000	1500	2000	2500	
				56116	121926	254265	653558		50.0	100	200	500
Hexachloroethane	DCBd 4	Ave	359381	532777	809394	960008		1000	1500	2000	2500	
				17166	36572	69430	168921		50.0	100	200	500

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

Lab Name: Eurofins Cleveland Job No.: 240-189273-1 Analy Batch No.: 581832

SDG No.:

Instrument ID: A4AG2 GC Column: RXI-5SILMS/ ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/26/2023 08:38 Calibration End Date: 07/26/2023 11:48 Calibration ID: 71263

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Nitrobenzene	NPT	Ave	913705	34973 1272617	82774 1867063	170983 2309918	453757	1000	50.0 1500	100 2000	200 2500	500
Isophorone	NPT	Ave	1806968	66746 2496114	155593 3758139	331441 4566678	891879	1000	50.0 1500	100 2000	200 2500	500
2,4-Dimethylphenol	NPT	Ave	819405	24089 1155181	57400 1690542	133309 2057441	404491	1000	50.0 1500	100 2000	200 2500	500
2-Nitrophenol	NPT	Lin1	468221	12223 650845	29700 1031794	70577 1264314	215832	1000	50.0 1500	100 2000	200 2500	500
Benzoic acid	NPT	Qua	754733	+++++ 1089064	14317 1990367	50845 2504675	275086	2000	+++++ 3000	200 4000	400 5000	1000
Bis(2-chloroethoxy)methane	NPT	Ave	1074671	46397 1482605	103362 2184794	208272 2654396	533305	1000	50.0 1500	100 2000	200 2500	500
2,4-Dichlorophenol	NPT	Lin1	716725	13147 991809	40985 1492793	103513 1829206	341752	1000	50.0 1500	100 2000	200 2500	500
1,2,4-Trichlorobenzene	NPT	Ave	729140	31939 1050659	69291 1569649	141619 1920231	359135	1000	50.0 1500	100 2000	200 2500	500
Naphthalene	NPT	Ave	28120 3001551	131696 4189876	288029 6039173	576855 6955709	1502817	10.0 1000	50.0 1500	100 2000	200 2500	500
4-Chloroaniline	NPT	Ave	1159710	29257 1708975	82077 2517156	195311 2901279	545478	1000	50.0 1500	100 2000	200 2500	500
2,6-Dichlorophenol	NPT	Lin1	731814	21577 1020228	48730 1531950	123908 1883105	360333	1000	50.0 1500	100 2000	200 2500	500
Hexachlorobutadiene	NPT	Ave	330799	14950 469888	29665 708297	62206 868321	161463	1000	50.0 1500	100 2000	200 2500	500
Caprolactam	NPT	Lin1	2848 632429	18553 882445	47025 1344356	112600 1552834	303747	20.0 2000	100 3000	200 4000	400 5000	1000
4-Chloro-3-methylphenol	NPT	Lin1	794734	18210 1130338	54397 1758362	137161 2060030	389227	1000	50.0 1500	100 2000	200 2500	500
2-Methylnaphthalene	NPT	Ave	17146 1930069	84804 2719173	171379 4012893	375764 4777207	972022	10.0 1000	50.0 1500	100 2000	200 2500	500
1-Methylnaphthalene	NPT	Ave	16090 1787454	79746 2517671	162778 3724319	352028 4465538	900409	10.0 1000	50.0 1500	100 2000	200 2500	500
Hexachlorocyclopentadiene	ANT	Ave	341224	10988 487331	24267 761381	54893 919108	157249	1000	50.0 1500	100 2000	200 2500	500
1,2,4,5-Tetrachlorobenzene	ANT	Ave	648528	25660 915246	53633 1364039	117600 1664914	314632	1000	50.0 1500	100 2000	200 2500	500

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

Lab Name: Eurofins Cleveland Job No.: 240-189273-1 Analy Batch No.: 581832

SDG No.:

Instrument ID: A4AG2 GC Column: RXI-5SILMS/ ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/26/2023 08:38 Calibration End Date: 07/26/2023 11:48 Calibration ID: 71263

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
2,4,6-Trichlorophenol	ANT	Lin1	445954	11960 627504	29774 987049	72525 1210376	207444	1000	50.0 1500	100 2000	200 2500	500
2,4,5-Trichlorophenol	ANT	Lin1	464420	5342 666072	15439 1040642	66879 1261224	221279	1000	50.0 1500	100 2000	200 2500	500
1,1'-Biphenyl	ANT	Ave	21391 2238124	100074 3162343	212444 4625874	438716 5484069	1119918	10.0 1000	50.0 1500	100 2000	200 2500	500
2-Chloronaphthalene	ANT	Ave	14460 1645277	73848 2328862	150607 3537614	322586 4196845	806660	10.0 1000	50.0 1500	100 2000	200 2500	500
2-Nitroaniline	ANT	Lin1	451526	14804 633292	31322 1034859	77223 1264600	213783	1000	50.0 1500	100 2000	200 2500	500
Dimethyl phthalate	ANT	Ave	1869195	78684 2664333	172479 3929109	356402 4715753	901316	1000	50.0 1500	100 2000	200 2500	500
1,3-Dinitrobenzene	ANT	Lin1	273247	5853 392869	15597 631453	38510 764140	124437	1000	50.0 1500	100 2000	200 2500	500
2,6-Dinitrotoluene	ANT	Ave	416945	12050 611590	31401 929746	73766 1104745	202452	1000	50.0 1500	100 2000	200 2500	500
Acenaphthylene	ANT	Ave	21476 2800535	116823 3988756	249506 5898794	530480 6818194	1375651	10.0 1000	50.0 1500	100 2000	200 2500	500
3-Nitroaniline	ANT	Ave	292217	10147 437777	30642 704731	72808 +++++	156918	1000	50.0 1500	100 2000	200 +++++	500
2,4-Dinitrophenol	ANT	Qua	303781	+++++ 475101	9401 868179	28421 1078903	115939	2000	+++++ 3000	200 4000	400 5000	1000
Acenaphthene	ANT	Ave	16443 1734995	82438 2436469	168206 3539021	344773 4195569	870663	10.0 1000	50.0 1500	100 2000	200 2500	500
4-Nitrophenol	ANT	Lin1	407208	10493 597842	27041 913380	64675 1105977	180175	2000	100 3000	200 4000	400 5000	1000
2,4-Dinitrotoluene	ANT	Lin1	531636	12816 763030	34210 1207701	86710 1440817	255609	1000	50.0 1500	100 2000	200 2500	500
Dibenzofuran	ANT	Ave	16229 2284579	90335 3243067	221731 4904027	454390 5781786	1136784	10.0 1000	50.0 1500	100 2000	200 2500	500
2,3,4,6-Tetrachlorophenol	ANT	Lin1	305081	4919 428874	18015 687674	50649 844842	147296	1000	50.0 1500	100 2000	200 2500	500
Diethyl phthalate	ANT	Ave	1831489	79129 2612618	176140 3911306	364320 4620533	913939	1000	50.0 1500	100 2000	200 2500	500
4-Chlorophenyl phenyl ether	ANT	Ave	751276	31250 1095929	71239 1673526	147218 2018843	370837	1000	50.0 1500	100 2000	200 2500	500

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

Lab Name: Eurofins Cleveland Job No.: 240-189273-1 Analy Batch No.: 581832

SDG No.:

Instrument ID: A4AG2 GC Column: RXI-5SILMS/ ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/26/2023 08:38 Calibration End Date: 07/26/2023 11:48 Calibration ID: 71263

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
4-Nitroaniline	ANT	Qua	393535	12188 494066	33639 682261	81481 773803	198682	1000	50.0 1500	100 2000	200 2500	500
Fluorene	ANT	Ave	15913 1910744	78420 2733247	182650 3993106	373035 4601042	940708	10.0 1000	50.0 1500	100 2000	200 2500	500
4,6-Dinitro-2-methylphenol	PHN	Qua	479205	+++++ 743998	17806 1241395	56217 1529098	196242	2000	+++++ 3000	200 4000	400 5000	1000
Diphenylamine	PHN	Ave	1349598	54548 1920845	125477 2855811	260947 3329520	670173	850	42.5 1275	85.0 1700	170 2125	425
N-Nitrosodiphenylamine	PHN	Ave	1349598	54548 1920845	125477 2855811	260947 3329520	670173	1000	50.0 1500	100 2000	200 2500	500
Azobenzene	PHN	Ave	1887403	77108 2794407	186895 4159214	387097 4861555	946529	1000	50.0 1500	100 2000	200 2500	500
4-Bromophenyl phenyl ether	PHN	Ave	396840	15354 584646	36662 879157	75875 1044302	194286	1000	50.0 1500	100 2000	200 2500	500
Atrazine	PHN	Ave	5681 906469	32376 1293741	75643 1818039	165604 1987464	425993	20.0 2000	100 3000	200 4000	400 5000	1000
Hexachlorobenzene	PHN	Lin1	3059 409322	13274 607062	34330 894505	75608 1050463	198049	10.0 1000	50.0 1500	100 2000	200 2500	500
n-Octadecane	PHN	Ave	1179355	46865 1814614	111113 2561736	250827 2963120	624732	1000	50.0 1500	100 2000	200 2500	500
Pentachlorophenol	PHN	Qua	467759	+++++ 759715	20027 1240185	57439 1502791	207120	2000	+++++ 3000	200 4000	400 5000	1000
Phenanthrene	PHN	Ave	23260 2450109	106325 3630140	242010 5243095	499920 6115478	1284276	10.0 1000	50.0 1500	100 2000	200 2500	500
Anthracene	PHN	Ave	18606 2499484	96923 3702877	226571 5391969	489169 6251583	1272184	10.0 1000	50.0 1500	100 2000	200 2500	500
Carbazole	PHN	Ave	2215643	91824 3254059	209509 4733375	441771 5106956	1142869	1000	50.0 1500	100 2000	200 2500	500
Di-n-butyl phthalate	PHN	Ave	3106804	106049 4552340	256551 6551876	562219 7290600	1554676	1000	50.0 1500	100 2000	200 2500	500
Fluoranthene	PHN	Ave	16525 2349922	91618 3463088	208336 4969106	433547 5727599	1119933	10.0 1000	50.0 1500	100 2000	200 2500	500
Benzidine	CRY	Qua	1462400	10794 2530094	59329 4192713	179231 5271782	622984	2000	100 3000	200 4000	400 5000	1000
Pyrene	CRY	Ave	17681 2420767	92821 3549345	212120 5118699	454788 5968559	1201770	10.0 1000	50.0 1500	100 2000	200 2500	500

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

Lab Name: Eurofins Cleveland Job No.: 240-189273-1 Analy Batch No.: 581832

SDG No.:

Instrument ID: A4AG2 GC Column: RXI-5SILMS/ ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/26/2023 08:38 Calibration End Date: 07/26/2023 11:48 Calibration ID: 71263

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Butyl benzyl phthalate	CRY	Lin1	1292304	33802 1874784	83912 2831847	204759 3383131	592677	1000	50.0 1500	100 2000	200 2500	500
Bis(2-ethylhexyl) phthalate	CRY	Lin1	1829973	39879 2601017	111613 3996423	273984 4695990	838616	1000	50.0 1500	100 2000	200 2500	500
3,3'-Dichlorobenzidine	CRY	Lin1	1288755	31302 1946539	89743 2922410	221800 3533774	629221	2000	100 3000	200 4000	400 5000	1000
Benzo[a]anthracene	CRY	Ave	15111 2008454	76941 3087794	170066 4615998	370414 5308642	997040	10.0 1000	50.0 1500	100 2000	200 2500	500
Chrysene	CRY	Ave	16764 1993310	78422 2945787	173414 4428186	378978 5018499	972943	10.0 1000	50.0 1500	100 2000	200 2500	500
Di-n-octyl phthalate	PRY	Lin1	2880368	48074 4055297	138521 6345259	397324 7629618	1262385	1000	50.0 1500	100 2000	200 2500	500
Benzo[b]fluoranthene	PRY	Ave	12179 1884344	65676 2805927	150023 4137130	327169 5094066	903331	10.0 1000	50.0 1500	100 2000	200 2500	500
Benzo[k]fluoranthene	PRY	Ave	12621 1874469	67843 2901710	164324 4377588	344238 5068848	911723	10.0 1000	50.0 1500	100 2000	200 2500	500
Benzo[a]pyrene	PRY	Lin1	8748 1709319	55116 2563093	128201 3885028	294830 4654888	811644	10.0 1000	50.0 1500	100 2000	200 2500	500
Indeno[1,2,3-cd]pyrene	PRY	Lin1	10203 1948020	60600 2903404	148450 4292126	331247 5158258	915637	10.0 1000	50.0 1500	100 2000	200 2500	500
Dibenz(a,h)anthracene	PRY	Lin1	8972 1624785	53061 2386574	121899 3618540	274755 4341062	760444	10.0 1000	50.0 1500	100 2000	200 2500	500
Benzo[g,h,i]perylene	PRY	Ave	10210 1548672	51674 2285447	124181 3381669	275979 3995510	743083	10.0 1000	50.0 1500	100 2000	200 2500	500
2-Fluorophenol (Surr)	DCBd 4	Ave	3693 463286	23634 680224	50402 1095968	105661 +++++	199941	10.0 1000	50.0 1500	100 2000	200 +++++	500
Phenol-d5 (Surr)	DCBd 4	Ave	7786 869753	37757 1364382	84459 2171117	190386 2725356	372662	10.0 1000	50.0 1500	100 2000	200 2500	500
Nitrobenzene-d5 (Surr)	NPT	Ave	7108 985694	36261 1393123	87596 2067526	179414 2516135	484690	10.0 1000	50.0 1500	100 2000	200 2500	500
2-Fluorobiphenyl (Surr)	ANT	Ave	16132 1876804	84807 2659030	179902 3955542	355845 4681031	924015	10.0 1000	50.0 1500	100 2000	200 2500	500
2,4,6-Tribromophenol (Surr)	ANT	Lin1	+++++ 167867	3624 245739	11387 398619	28124 483476	78257	+++++ 1000	50.0 1500	100 2000	200 2500	500

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

Lab Name: Eurofins Cleveland Job No.: 240-189273-1 Analy Batch No.: 581832

SDG No.:

Instrument ID: A4AG2 GC Column: RXI-5SILMS/ ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/26/2023 08:38 Calibration End Date: 07/26/2023 11:48 Calibration ID: 71263

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Terphenyl-d14 (Surr)	CRY	Ave	14363 1672209	68508 2516240	151780 3802134	331782 4445557	847949	10.0 1000	50.0 1500	100 2000	200 2500	500

Curve Type Legend
Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Qua = Quadratic ISTD

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

Lab Name: Eurofins Cleveland Job No.: 240-189273-1 Analy Batch No.: 581832

SDG No.:

Instrument ID: A4AG2 GC Column: RXI-5SILMS/ ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/26/2023 08:38 Calibration End Date: 07/26/2023 11:48 Calibration ID: 71263

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-581832/7	7.D
Level 2	STD2 240-581832/6	6.D
Level 3	STD3 240-581832/5	5.D
Level 4	STD4 240-581832/4	CCV L3LVI.D
Level 5	STD5 240-581832/3	CCV L2LVI.D
Level 6	STD6 240-581832/2	CCV L1LVI.D
Level 7	STD7 240-581832/8	8.D
Level 8	STD8 240-581832/9	9.D
Level 9	STD9 240-581832/10	10.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4	LVL 5	LVL 6
1,4-Dioxane	-6.3	7.9 4.2	7.8 +++++	-6.8	-16.4	9.6	30	50 30	30	30	30	30
N-Nitrosodimethylamine	9.8	-9.2 5.4	-6.5 5.8	-3.5	-4.1	2.3	30	50 30	30 30	30	30	30
Pyridine	-22.9 13.2	3.4 +++++	10.6 +++++	-3.9	-14.7	14.1	50 30	30	30	30	30	30
Benzaldehyde	+++++ 0.7	-52.2 * 0.6	-0.5 +++++	6.2	10.9	-5.8	30	50 30	30	30	30	30
Phenol	1.4	-14.0 6.9	-0.6 14.9	7.0	-11.9	-3.8	30	50 30	30 30	30	30	30
Aniline	1.9	-24.0 1.7	-7.9 6.3	-3.8	14.3	11.6	30	50 30	30 30	30	30	30
Bis(2-chloroethyl)ether	-1.4	-1.4 -5.1	-1.6 -4.4	0.8	9.9	3.3	30	50 30	30 30	30	30	30
2-Chlorophenol	3.5	-16.4 1.4	0.7 4.1	4.4	1.5	0.8	30	50 30	30 30	30	30	30
n-Decane	-5.9	-1.2 -2.0	1.9 +++++	6.0	-2.7	4.0	30	50 30	30	30	30	30
1,3-Dichlorobenzene	-1.6	-2.9 -0.1	2.5 -2.8	1.0	1.8	2.1	30	50 30	30 30	30	30	30
1,4-Dichlorobenzene	-0.6	-1.6 -1.7	4.4 -2.8	0.5	1.1	0.8	30	50 30	30 30	30	30	30
Benzyl alcohol	5.6	-34.7 5.5	-15.3 9.1	-4.5	18.2	16.1	30	50 30	30 30	30	30	30
1,2-Dichlorobenzene	-1.0	-2.2 -4.3	3.9 -3.7	1.0	4.7	1.6	30	50 30	30 30	30	30	30

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

Lab Name: Eurofins Cleveland Job No.: 240-189273-1 Analy Batch No.: 581832

SDG No.:

Instrument ID: A4AG2 GC Column: RXI-5SILMS/ ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/26/2023 08:38 Calibration End Date: 07/26/2023 11:48 Calibration ID: 71263

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4	LVL 5	LVL 6
2-Methylphenol	3.4	-19.9 -0.7	-6.1 3.7	1.6	8.0	10.1	30	50 30	30 30	30	30	30
2,2'-oxybis[1-chloropropane]	-7.4	-8.7 -11.0	15.2 -8.4	5.0	12.7	2.6	30	50 30	30 30	30	30	30
Indene	-2.9	-1.2 -11.5	9.7 -16.8	4.6	13.0	5.2	30	50 30	30 30	30	30	30
3 & 4 Methylphenol	-2.4	-0.3 -4.6	-5.0 -0.5	-9.4	11.8	10.3	30	50 30	30 30	30	30	30
N-Nitrosodi-n-propylamine	-0.9	-17.3 -3.7	-2.4 -0.8	3.4	14.6	7.1	30	50 30	30 30	30	30	30
Acetophenone	-2.4	-9.7 -5.6	-1.0 -2.7	2.6	13.0	5.7	30	50 30	30 30	30	30	30
Hexachloroethane	-0.6	-3.7 0.1	3.4 0.6	-2.4	1.8	0.8	30	50 30	30 30	30	30	30
Nitrobenzene	0.8	-14.0 1.3	1.1 0.1	1.2	4.2	5.4	30	50 30	30 30	30	30	30
Isophorone	1.2	-16.0 4.4	-2.8 1.3	0.4	4.9	6.6	30	50 30	30 30	30	30	30
2,4-Dimethylphenol	9.6	-29.1 9.9	-16.1 6.8	-5.5	11.3	13.2	30	50 30	30 30	30	30	30
2-Nitrophenol	-4.3	15.4 3.3	-3.7 0.8	-8.9	-3.8	1.2	30	50 30	30 30	30	30	30
Benzoic acid	-5.9	+++++ 4.3	30.4 -1.2	-8.6	-4.3	3.7	30	30	50 30	30	30	30
Bis(2-chloroethoxy)methane	-2.3	-5.1 -1.3	5.1 -4.2	2.6	2.0	3.2	30	50 30	30 30	30	30	30
2,4-Dichlorophenol	-1.5	7.4 0.9	-4.8 -1.6	-8.0	2.9	4.6	30	50 30	30 30	30	30	30
1,2,4-Trichlorobenzene	0.1	-5.6 2.5	1.8 0.1	0.8	-0.8	1.1	30	50 30	30 30	30	30	30
Naphthalene	0.2 -0.6	-3.0 -1.8	5.4 -9.7	2.3	3.5	3.7	50 30	30 30	30 30	30	30	30
4-Chloroaniline	14.6	-39.1 15.7	-15.1 6.5	-2.1	6.2	13.3	30	50 30	30 30	30	30	30
2,6-Dichlorophenol	-1.7	5.0 0.8	-7.9 -1.3	-1.7	3.5	3.3	30	50 30	30 30	30	30	30
Hexachlorobutadiene	-0.2	-1.5 3.1	-2.9 0.9	-1.3	-0.5	2.3	30	50 30	30 30	30	30	30

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

Lab Name: Eurofins Cleveland Job No.: 240-189273-1 Analy Batch No.: 581832

SDG No.:

Instrument ID: A4AG2 GC Column: RXI-5SILMS/ ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/26/2023 08:38 Calibration End Date: 07/26/2023 11:48 Calibration ID: 71263

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4	LVL 5	LVL 6
Caprolactam	26.8 -0.2	-19.5 4.0	-10.6 -4.1	-1.4	0.7	4.3	50 30	30 30	30 30	30	30	30
4-Chloro-3-methylphenol	 -1.9	0.1 4.1	-2.5 -2.8	0.4	1.5	1.3	 30	50 30	30 30	30	30	30
2-Methylnaphthalene	-4.9 0.4	-2.8 1.6	-2.4 -3.5	3.7	4.1	3.8	50 30	30 30	30 30	30	30	30
1-Methylnaphthalene	-4.5 -0.4	-2.1 0.9	-0.8 -3.4	4.0	3.3	2.9	50 30	30 30	30 30	30	30	30
Hexachlorocyclopentadiene	 8.2	-23.1 14.1	-17.0 11.9	-10.9	4.9	11.9	 30	50 30	30 30	30	30	30
1,2,4,5-Tetrachlorobenzene	 2.5	-9.5 3.0	-7.5 2.2	-3.8	5.8	7.3	 30	50 30	30 30	30	30	30
2,4,6-Trichlorophenol	 -3.8	10.9 1.5	-3.9 1.0	-6.7	-0.9	1.8	 30	50 30	30 30	30	30	30
2,4,5-Trichlorophenol	 -2.6	20.6 1.6	-18.0 -0.3	-6.7	3.6	1.8	 30	50 30	30 30	30	30	30
1,1'-Biphenyl	2.4 -1.4	-1.7 -2.7	2.0 -6.3	-0.1	4.8	3.0	50 30	30 30	30 30	30	30	30
2-Chloronaphthalene	-5.2 -0.6	-0.7 1.8	-1.0 -1.8	0.6	3.3	3.7	50 30	30 30	30 30	30	30	30
2-Nitroaniline	 -6.0	15.0 3.0	-6.1 2.1	-5.9	-1.7	-0.4	 30	50 30	30 30	30	30	30
Dimethyl phthalate	 1.0	-6.0 0.5	0.7 -2.0	-1.3	2.6	4.6	 30	50 30	30 30	30	30	30
1,3-Dinitrobenzene	 -3.9	20.9 3.3	-4.3 1.3	-13.8	-3.4	-0.1	 30	50 30	30 30	30	30	30
2,6-Dinitrotoluene	 9.4	-32.1 12.2	-13.4 8.4	-3.6	8.8	10.2	 30	50 30	30 30	30	30	30
Acenaphthylene	-14.4 3.5	-4.5 3.3	-0.2 -2.9	0.6	7.2	7.4	50 30	30 30	30 30	30	30	30
3-Nitroaniline	 -2.4	-28.7 6.0	5.2 +++++	18.6	5.0	-3.8	 30	50 30	30	30	30	30
2,4-Dinitrophenol	 -4.2	+++++ 4.2	28.1 -1.2	-3.9	-3.2	0.5	 30	 30	50 30	30	30	30
Acenaphthene	0.9 -2.7	3.7 -4.7	3.5 -8.1	0.6	4.4	2.4	50 30	30 30	30 30	30	30	30
4-Nitrophenol	 -0.6	13.7 1.9	-2.2 0.0	-8.0	-5.9	1.0	 30	50 30	30 30	30	30	30

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

Lab Name: Eurofins Cleveland Job No.: 240-189273-1 Analy Batch No.: 581832

SDG No.:

Instrument ID: A4AG2 GC Column: RXI-5SILMS/ ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/26/2023 08:38 Calibration End Date: 07/26/2023 11:48 Calibration ID: 71263

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4	LVL 5	LVL 6
2,4-Dinitrotoluene	-3.1	9.6 2.9	-4.7 -0.5	-6.3	1.4	0.7	30	50 30	30 30	30	30	30
Dibenzofuran	-21.5 2.1	-10.4 4.2	7.5 -0.2	4.5	7.5	6.3	50 30	30 30	30 30	30	30	30
2,3,4,6-Tetrachlorophenol	-5.2	5.5 1.7	-4.2 1.2	-2.3	2.5	0.7	30	50 30	30 30	30	30	30
Diethyl phthalate	-0.9	-5.5 0.0	2.9 -3.9	0.9	4.0	2.6	30	50 30	30 30	30	30	30
4-Chlorophenyl phenyl ether	0.6	-9.6 3.7	0.8 1.7	-1.2	2.2	1.9	30	50 30	30 30	30	30	30
4-Nitroaniline	-4.0	-15.4 -1.7	-6.7 2.1	0.4	1.1	6.2	30	50 30	30 30	30	30	30
Fluorene	-8.5 2.3	-7.5 0.8	5.3 -5.6	2.0	5.7	5.6	50 30	30 30	30 30	30	30	30
4,6-Dinitro-2-methylphenol	-3.4	+++++ 2.1	18.0 -0.5	-2.0	-6.1	3.8	30	30	50 30	30	30	30
Diphenylamine	0.1	-8.9 2.8	-1.2 0.2	-1.9	-0.1	9.0	30	50 30	30 30	30	30	30
N-Nitrosodiphenylamine	0.1	-8.9 2.8	-1.2 0.2	-1.9	-0.1	9.0	30	50 30	30 30	30	30	30
Azobenzene	0.8	-11.0 3.5	1.8 1.2	0.7	-2.4	5.4	30	50 30	30 30	30	30	30
4-Bromophenyl phenyl ether	2.6	-13.7 6.5	-2.8 5.8	-3.9	-2.4	7.9	30	50 30	30 30	30	30	30
Atrazine	-25.3 10.2	-11.7 6.9	-2.7 -2.3	1.7	3.8	19.6	50 30	30 30	30 30	30	30	30
Hexachlorobenzene	36.2 -0.1	-18.6 1.4	-9.2 -0.4	-7.7	-6.0	4.5	50 30	30 30	30 30	30	30	30
n-Octadecane	4.5	-13.6 1.8	-3.4 -1.6	4.2	2.9	5.2	30	50 30	30 30	30	30	30
Pentachlorophenol	-2.1	+++++ 2.5	21.9 -0.8	-2.5	-4.1	0.5	30	30	50 30	30	30	30
Phenanthrene	-0.6 0.5	-5.7 0.2	1.2 -2.3	-0.2	1.7	5.1	50 30	30 30	30 30	30	30	30
Anthracene	-17.8 5.9	-11.2 6.4	-2.1 3.2	0.9	4.1	10.7	50 30	30 30	30 30	30	30	30
Carbazole	2.3	-7.6 2.7	-0.6 -7.4	0.1	2.7	7.8	30	50 30	30 30	30	30	30

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

Lab Name: Eurofins Cleveland Job No.: 240-189273-1 Analy Batch No.: 581832

SDG No.:

Instrument ID: A4AG2 GC Column: RXI-5SILMS/ ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/26/2023 08:38 Calibration End Date: 07/26/2023 11:48 Calibration ID: 71263

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4	LVL 5	LVL 6
Di-n-butyl phthalate	7.5	-19.8 6.8	-8.5 -0.6	-4.2	5.0	13.7	30	50 30	30 30	30	30	30
Fluoranthene	-20.3 8.2	-8.3 7.2	-1.7 3.3	-2.3	0.1	13.8	50 30	30 30	30 30	30	30	30
Benzidine	-0.8	24.2 1.8	3.8 -0.6	-2.0	-0.4	-1.7	30	50 30	30 30	30	30	30
Pyrene	-13.5 2.2	-8.3 2.1	2.1 0.2	3.9	5.7	5.7	50 30	30 30	30 30	30	30	30
Butyl benzyl phthalate	-3.1	9.9 0.9	-3.2 1.2	-4.8	-3.0	2.1	30	50 30	30 30	30	30	30
Bis(2-ethylhexyl) phthalate	-3.8	8.9 1.7	-2.7 0.3	-6.5	-1.4	3.5	30	50 30	30 30	30	30	30
3,3'-Dichlorobenzidine	-2.8	4.1 0.5	-0.7 2.0	-0.9	-0.7	-1.6	30	50 30	30 30	30	30	30
Benzo[a]anthracene	-12.7 5.0	-10.2 8.7	-3.3 5.3	-0.1	3.6	3.6	50 30	30 30	30 30	30	30	30
Chrysene	-2.8 0.5	-8.2 4.6	-1.0 -0.2	2.6	1.4	3.2	50 30	30 30	30 30	30	30	30
Di-n-octyl phthalate	-4.4	17.5 1.9	-6.9 1.8	-8.1	-3.1	1.4	30	50 30	30 30	30	30	30
Benzo[b]fluoranthene	-20.6 7.5	-15.4 8.9	-4.2 12.0	-1.1	6.4	6.6	50 30	30 30	30 30	30	30	30
Benzo[k]fluoranthene	-20.3 7.6	-15.4 11.6	1.6 7.8	0.7	3.9	2.6	50 30	30 30	30 30	30	30	30
Benzo[a]pyrene	35.1 -1.7	-13.7 2.2	-10.6 2.2	-7.4	-3.3	-2.9	50 30	30 30	30 30	30	30	30
Indeno[1,2,3-cd]pyrene	32.5 -0.3	-15.8 1.1	-8.2 1.3	-7.1	-2.4	-1.1	50 30	30 30	30 30	30	30	30
Dibenz(a,h)anthracene	33.4 -2.0	-13.0 1.9	-9.9 2.0	-7.9	-3.1	-1.3	50 30	30 30	30 30	30	30	30
Benzo[g,h,i]perylene	-18.5 7.2	-18.6 9.0	-2.9 7.5	2.1	7.1	7.2	50 30	30 30	30 30	30	30	30
2-Fluorophenol (Surr)	-16.0 -3.0	1.3 3.6	9.0 +++++	13.6	-7.9	-0.7	50 30	30 30	30	30	30	30
Phenol-d5 (Surr)	-6.4 2.9	-14.4 8.5	-3.5 15.5	8.2	-9.3	-1.4	50 30	30 30	30 30	30	30	30
Nitrobenzene-d5 (Surr)	-19.4 5.3	-15.0 7.1	2.0 4.0	1.3	6.2	8.4	50 30	30 30	30 30	30	30	30

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

Lab Name: Eurofins Cleveland Job No.: 240-189273-1 Analy Batch No.: 581832

SDG No.:

Instrument ID: A4AG2 GC Column: RXI-5SILMS/ ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/26/2023 08:38 Calibration End Date: 07/26/2023 11:48 Calibration ID: 71263

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4	LVL 5	LVL 6
2-Fluorobiphenyl (Surr)	-6.9 -0.1	0.4 0.2	4.1 -3.6	-2.3	4.2	4.1	50 30	30 30	30 30	30	30	30
2,4,6-Tribromophenol (Surr)	+++++ -4.6	10.8 3.6	0.2 1.9	-5.2	-4.2	-2.6	 30	50 30	30 30	30	30	30
Terphenyl-d14 (Surr)	-3.8 -0.8	-7.4 3.8	0.1 2.2	3.8	2.1	0.0	50 30	30 30	30 30	30	30	30

Eurofins Cleveland
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\CCV L1LVI.D
Lims ID: std6 l1lvi
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 26-Jul-2023 08:38:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 240-0131814-002
Misc. Info.: STD6 L1LVI
Operator ID: Instrument ID: A4AG2
Sublist: chrom-LVI AG2 8270*sub20

Method: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\LVI AG2 8270.m
Limit Group: MSS 8270D ICAL
Last Update: 26-Jul-2023 12:53:03 Calib Date: 26-Jul-2023 11:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\10.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: CTX1679

First Level Reviewer: KDZ4 Date: 26-Jul-2023 09:13:26

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.748	6.748	0.000	95	237131	400.0	400.0	
* 2 Naphthalene-d8	136	7.819	7.819	0.000	99	1043141	400.0	400.0	
* 3 Acenaphthene-d10	164	9.319	9.319	0.000	94	537058	400.0	400.0	
* 4 Phenanthrene-d10	188	10.613	10.613	0.000	97	790003	400.0	400.0	
* 5 Chrysene-d12	240	13.566	13.566	0.000	97	581412	400.0	400.0	
* 6 Perylene-d12	264	15.960	15.960	0.000	94	571627	400.0	400.0	
$ 7 2-Fluorophenol	112	5.684	5.684	0.000	90	463286	1000.0	993.3	
$ 8 Phenol-d5	99	6.390	6.390	0.000	0	869753	1000.0	985.6	
$ 9 Nitrobenzene-d5	82	7.195	7.195	0.000	86	985694	1000.0	1084.3	
$ 10 2-Fluorobiphenyl (Surr)	172	8.713	8.713	0.000	100	1876804	1000.0	1041.3	
$ 11 2,4,6-Tribromophenol	330	9.995	9.995	0.000	88	167867	1000.0	974.0	
$ 12 Terphenyl-d14	244	12.113	12.113	0.000	96	1672209	1000.0	1000.1	
26 1,4-Dioxane	88	4.296	4.296	0.000	93	153845	1000.0	1096.2	M
27 N-Nitrosodimethylamine	74	4.549	4.549	0.000	95	508841	1000.0	1022.8	
28 Pyridine	79	4.607	4.607	0.000	98	854799	2000.0	2282.8	M
42 Benzaldehyde	77	6.390	6.390	0.000	95	780174	2000.0	1883.0	
43 Phenol	94	6.401	6.401	0.000	98	883418	1000.0	962.4	
44 Aniline	93	6.466	6.466	0.000	98	1448657	1000.0	1116.0	
45 Bis(2-chloroethyl)ether	93	6.490	6.490	0.000	97	937849	1000.0	1033.3	
47 2-Chlorophenol	128	6.578	6.578	0.000	96	834692	1000.0	1008.5	
244 n-Decane	57	6.584	6.584	0.000	89	819355	1000.0	1040.5	
48 1,3-Dichlorobenzene	146	6.707	6.707	0.000	99	974943	1000.0	1021.1	
49 1,4-Dichlorobenzene	146	6.760	6.760	0.000	95	990905	1000.0	1007.9	
50 Benzyl alcohol	108	6.831	6.831	0.000	97	643761	1000.0	1160.7	
51 1,2-Dichlorobenzene	146	6.896	6.896	0.000	98	963370	1000.0	1015.8	
52 2-Methylphenol	108	6.907	6.907	0.000	94	869955	1000.0	1100.8	
54 2,2'-oxybis[1-chloropropane]	45	6.937	6.937	0.000	94	1197789	1000.0	1025.6	
53 Indene	115	6.966	6.966	0.000	90	3417783	2000.0	2103.6	
55 3 & 4 Methylphenol	108	7.025	7.025	0.000	94	938083	1000.0	1103.3	
57 N-Nitrosodi-n-propylamine	70	7.043	7.043	0.000	82	644603	1000.0	1070.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
58 Acetophenone	105	7.060	7.060	0.000	97	1313701	1000.0	1057.2	
61 Hexachloroethane	117	7.190	7.190	0.000	95	359381	1000.0	1007.9	
62 Nitrobenzene	77	7.213	7.213	0.000	84	913705	1000.0	1053.5	
64 Isophorone	82	7.407	7.407	0.000	99	1806968	1000.0	1066.4	
65 2-Nitrophenol	139	7.478	7.478	0.000	71	468221	1000.0	1011.6	
66 2,4-Dimethylphenol	107	7.478	7.478	0.000	88	819405	1000.0	1131.5	
70 Benzoic acid	122	7.531	7.531	0.000	88	754733	2000.0	2074.2	M
69 Bis(2-chloroethoxy)methane	93	7.548	7.548	0.000	99	1074671	1000.0	1031.6	
72 2,4-Dichlorophenol	162	7.678	7.678	0.000	93	716725	1000.0	1046.1	
73 1,2,4-Trichlorobenzene	180	7.760	7.760	0.000	95	729140	1000.0	1011.2	
74 Naphthalene	128	7.837	7.837	0.000	96	3001551	1000.0	1037.1	
75 4-Chloroaniline	127	7.860	7.860	0.000	97	1159710	1000.0	1132.7	
76 2,6-Dichlorophenol	162	7.872	7.872	0.000	99	731814	1000.0	1033.0	
78 Hexachlorobutadiene	225	7.931	7.931	0.000	98	330799	1000.0	1022.9	
83 Caprolactam	113	8.148	8.148	0.000	85	632429	2000.0	2086.9	
85 4-Chloro-3-methylphenol	107	8.231	8.231	0.000	96	794734	1000.0	1012.6	
86 2-Methylnaphthalene	142	8.419	8.419	0.000	93	1930069	1000.0	1037.8	
87 1-Methylnaphthalene	142	8.507	8.507	0.000	94	1787454	1000.0	1029.2	
89 Hexachlorocyclopentadiene	237	8.560	8.560	0.000	96	341224	1000.0	1119.4	
90 1,2,4,5-Tetrachlorobenzene	216	8.566	8.566	0.000	98	648528	1000.0	1072.6	
93 2,4,6-Trichlorophenol	196	8.642	8.642	0.000	93	445954	1000.0	1018.2	
94 2,4,5-Trichlorophenol	196	8.684	8.684	0.000	94	464420	1000.0	1018.0	
99 1,1'-Biphenyl	154	8.807	8.807	0.000	94	2238124	1000.0	1030.4	
100 2-Chloronaphthalene	162	8.842	8.842	0.000	97	1645277	1000.0	1036.9	
101 2-Nitroaniline	65	8.901	8.901	0.000	90	451526	1000.0	996.5	
104 Dimethyl phthalate	163	9.031	9.031	0.000	100	1869195	1000.0	1046.4	
103 1,3-Dinitrobenzene	168	9.066	9.066	0.000	86	273247	1000.0	999.2	
106 2,6-Dinitrotoluene	165	9.089	9.089	0.000	96	416945	1000.0	1102.1	
108 Acenaphthylene	152	9.207	9.207	0.000	98	2800535	1000.0	1073.8	
109 3-Nitroaniline	138	9.254	9.254	0.000	98	292217	1000.0	962.4	
110 2,4-Dinitrophenol	184	9.331	9.331	0.000	80	303781	2000.0	2010.9	
111 Acenaphthene	153	9.348	9.348	0.000	95	1734995	1000.0	1023.6	
112 4-Nitrophenol	109	9.354	9.354	0.000	81	407208	2000.0	2020.4	
113 2,4-Dinitrotoluene	165	9.442	9.442	0.000	95	531636	1000.0	1006.8	
115 Dibenzofuran	168	9.495	9.495	0.000	96	2284579	1000.0	1062.6	
118 2,3,4,6-Tetrachlorophenol	232	9.589	9.589	0.000	78	305081	1000.0	1006.7	
248 Hexadecane	57	9.613	9.613	0.000	93	1182859	NC	NC	
120 Diethyl phthalate	149	9.625	9.625	0.000	98	1831489	1000.0	1025.6	
122 4-Chlorophenyl phenyl ether	204	9.760	9.760	0.000	95	751276	1000.0	1019.0	
125 4-Nitroaniline	138	9.778	9.778	0.000	91	393535	1000.0	1061.9	
124 Fluorene	166	9.789	9.789	0.000	94	1910744	1000.0	1056.2	
127 4,6-Dinitro-2-methylphenol	198	9.795	9.795	0.000	84	479205	2000.0	2075.7	
129 Diphenylamine	169	9.854	9.854	0.000	96	1349598	850.0	926.4	
128 N-Nitrosodiphenylamine	169	9.854	9.854	0.000	98	1349598	1000.0	1089.9	
131 Azobenzene	77	9.895	9.895	0.000	98	1887403	1000.0	1054.3	
138 4-Bromophenyl phenyl ether	248	10.184	10.184	0.000	69	396840	1000.0	1079.1	
141 Atrazine	200	10.278	10.278	0.000	93	906469	2000.0	2391.4	
140 Hexachlorobenzene	284	10.284	10.284	0.000	92	409322	1000.0	1044.7	
245 n-Octadecane	57	10.401	10.401	0.000	96	1179355	1000.0	1051.9	
143 Pentachlorophenol	266	10.436	10.436	0.000	90	467759	2000.0	2009.9	
148 Phenanthrene	178	10.631	10.631	0.000	98	2450109	1000.0	1050.9	
149 Anthracene	178	10.678	10.678	0.000	97	2499484	1000.0	1107.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
150 Carbazole	167	10.795	10.795	0.000	96	2215643	1000.0	1078.4	
154 Di-n-butyl phthalate	149	11.025	11.025	0.000	100	3106804	1000.0	1136.8	
159 Fluoranthene	202	11.748	11.748	0.000	99	2349922	1000.0	1137.5	
160 Benzidine	184	11.836	11.836	0.000	99	1462400	2000.0	1965.4	
161 Pyrene	202	12.007	12.007	0.000	96	2420767	1000.0	1057.3	
169 Butyl benzyl phthalate	149	12.648	12.648	0.000	97	1292304	1000.0	1021.2	
174 Bis(2-ethylhexyl) phthalate	149	13.419	13.419	0.000	98	1829973	1000.0	1034.7	
177 3,3'-Dichlorobenzidine	252	13.460	13.460	0.000	77	1288755	2000.0	1968.7	
178 Benzo[a]anthracene	228	13.548	13.548	0.000	98	2008454	1000.0	1036.3	
179 Chrysene	228	13.607	13.607	0.000	97	1993310	1000.0	1031.7	
181 Di-n-octyl phthalate	149	14.448	14.448	0.000	99	2880368	1000.0	1013.9	
183 Benzo[b]fluoranthene	252	15.295	15.295	0.000	97	1884344	1000.0	1065.7	
184 Benzo[k]fluoranthene	252	15.336	15.336	0.000	96	1874469	1000.0	1026.1	
185 Benzo[a]pyrene	252	15.866	15.866	0.000	83	1709319	1000.0	970.5	
190 Indeno[1,2,3-cd]pyrene	276	18.124	18.124	0.000	94	1948020	1000.0	989.3	
189 Dibenz(a,h)anthracene	278	18.136	18.136	0.000	90	1624785	1000.0	986.8	
191 Benzo[g,h,i]perylene	276	18.777	18.777	0.000	92	1548672	1000.0	1072.0	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated

Reagents:

SMLIST1 L6 W_00021 Amount Added: 0.10 Units: mL

Report Date: 26-Jul-2023 12:53:04 Chrom Revision: 2.3 19-Jul-2023 18:28:48

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\CCV L1LVI.D

Injection Date: 26-Jul-2023 08:38:30 Instrument ID: A4AG2 Operator ID:

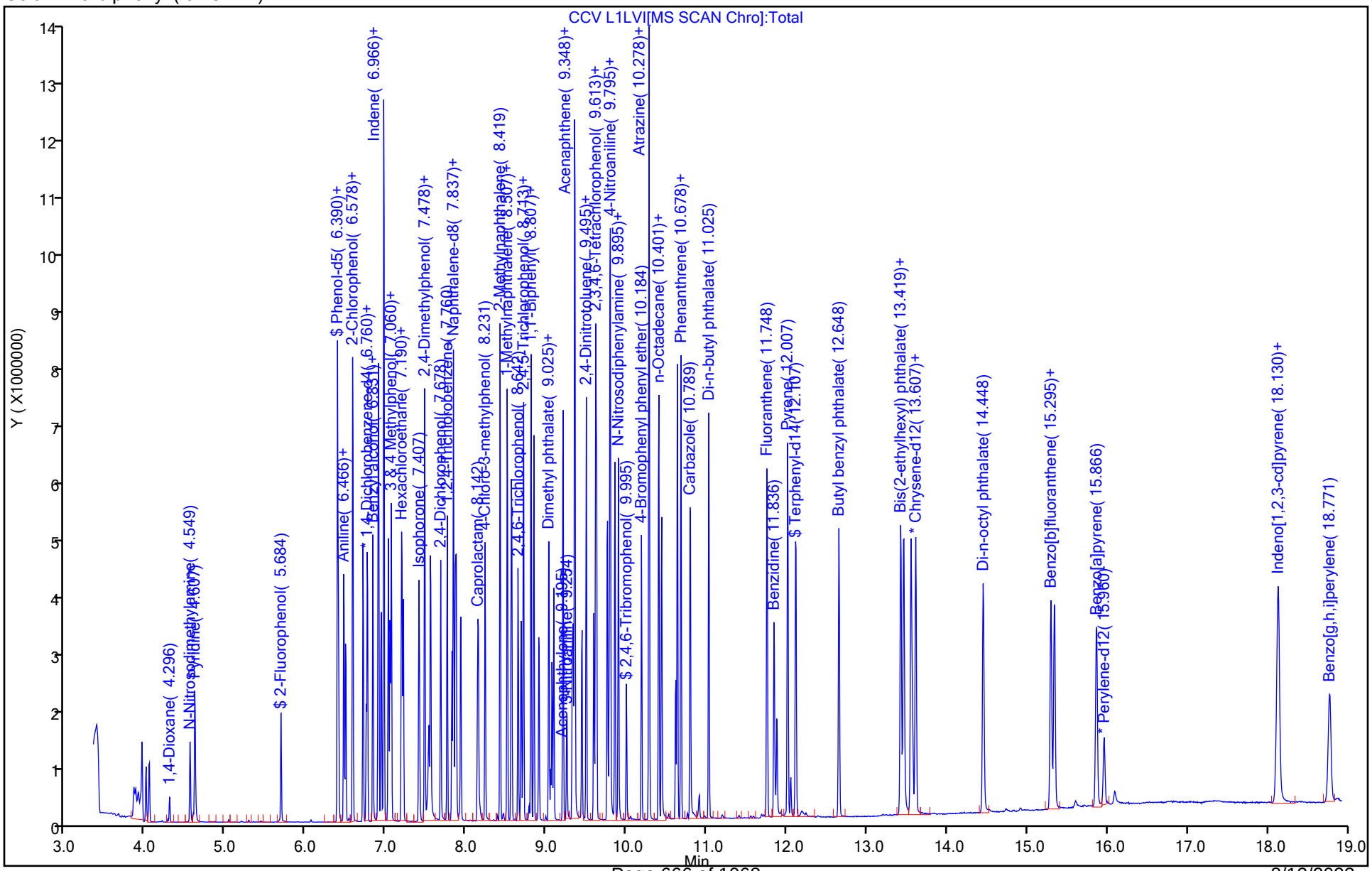
Lims ID: std6 l1lvi Worklist Smp#: 2

Client ID:

Injection Vol: 5.0 ul Dil. Factor: 1.0000 ALS Bottle#: 2

Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL

Column: 5% phenyl (0.18 mm)



8/12/2023
10:47 AM

Manual Integration/User Assign Peak Report

Eurofins Cleveland

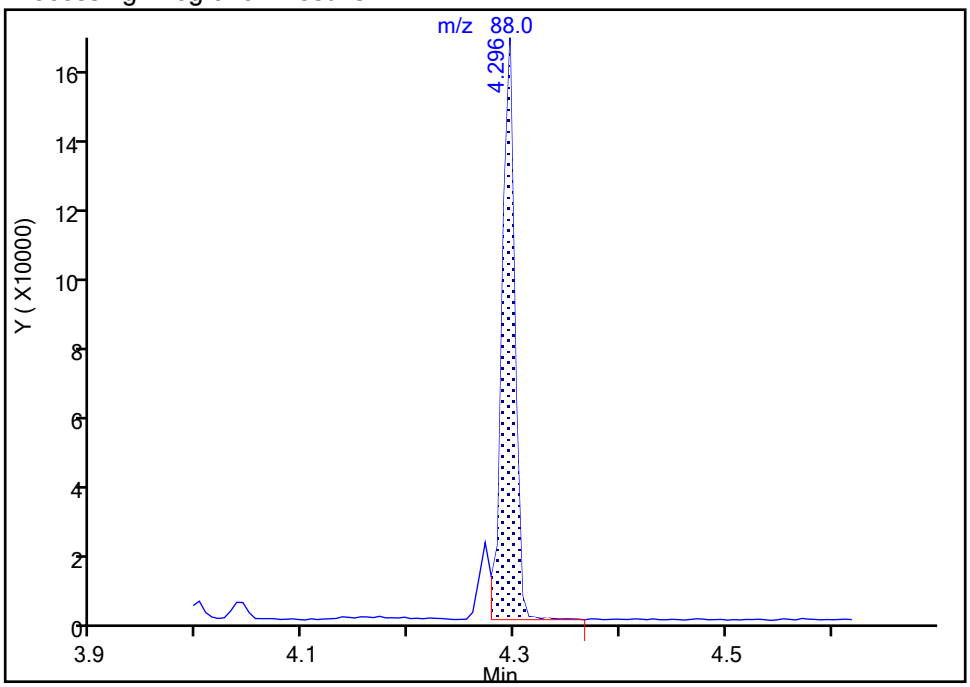
Data File: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\CCV L1LVI.D
Injection Date: 26-Jul-2023 08:38:30 Instrument ID: A4AG2
Lims ID: std6 l1lvi
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL
Column: 5% phenyl (0.18 mm) Detector MS SCAN

26 1,4-Dioxane, CAS: 123-91-1

Signal: 1

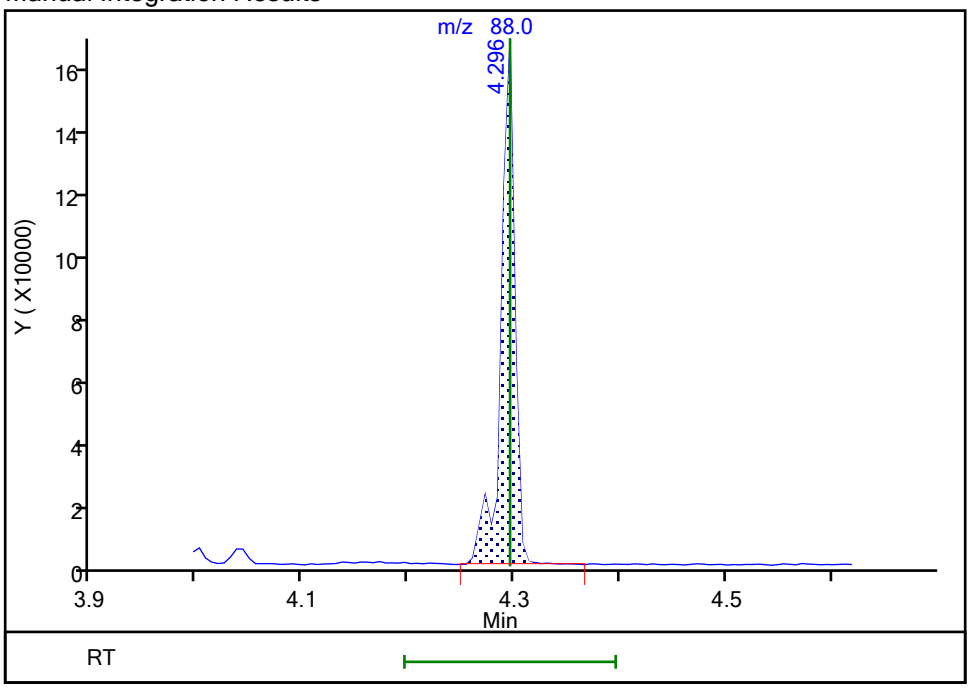
Processing Integration Results

RT: 4.30
Area: 141138
Amount: 1000.0000
Amount Units: ng/ml



Manual Integration Results

RT: 4.30
Area: 153845
Amount: 1096.2202
Amount Units: ng/ml



Reviewer: KDZ4, 26-Jul-2023 09:20:00 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Cleveland

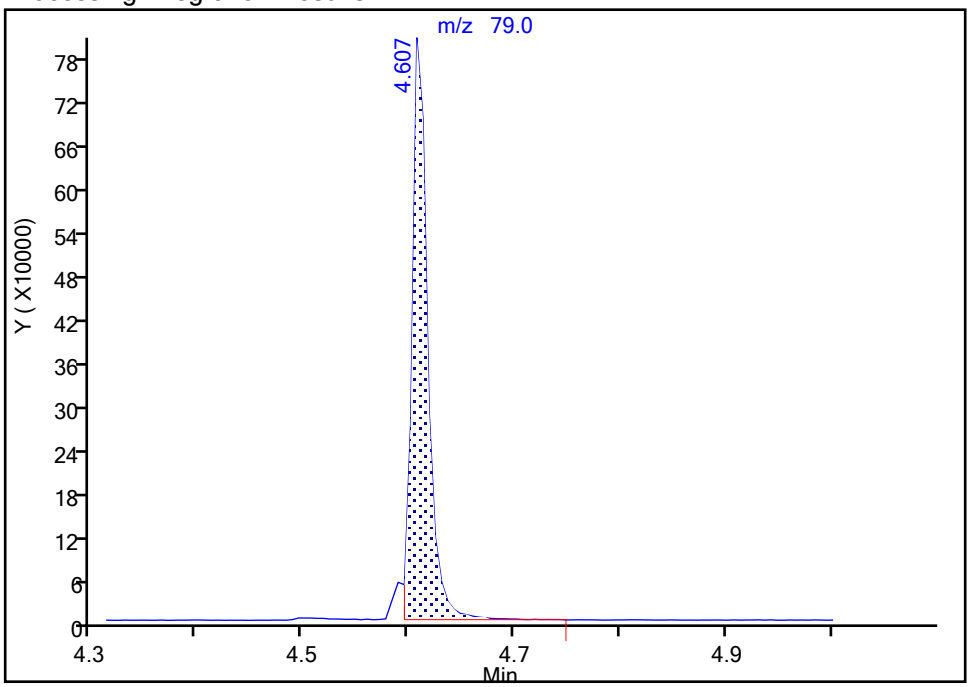
Data File: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\CCV L1LVI.D
Injection Date: 26-Jul-2023 08:38:30 Instrument ID: A4AG2
Lims ID: std6 l1lvi
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL
Column: 5% phenyl (0.18 mm) Detector MS SCAN

28 Pyridine, CAS: 110-86-1

Signal: 1

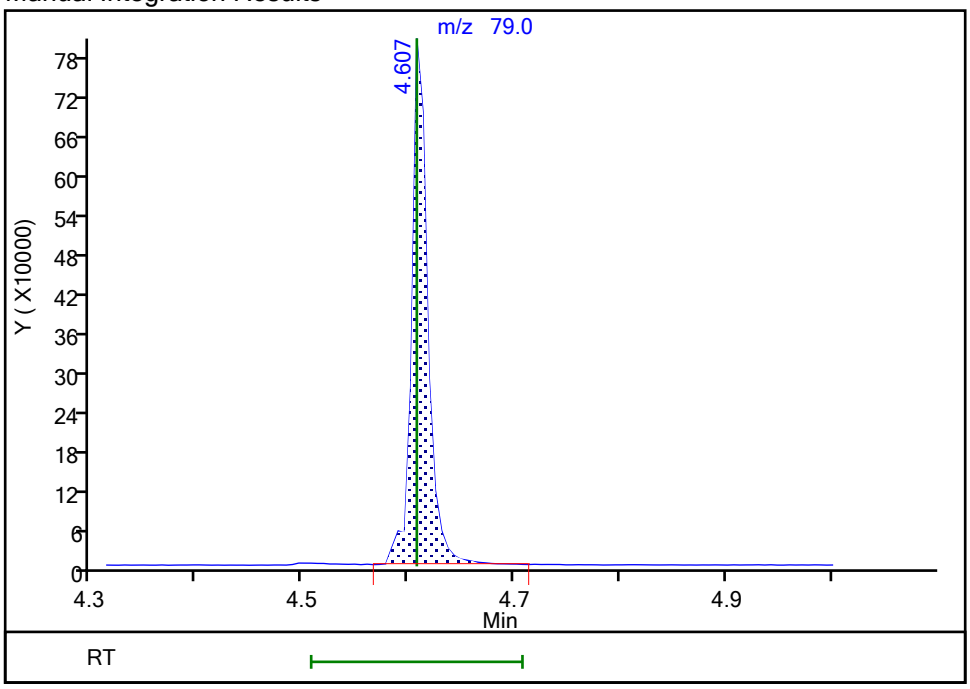
Processing Integration Results

RT: 4.61
Area: 834986
Amount: 2000.0000
Amount Units: ng/ml



Manual Integration Results

RT: 4.61
Area: 854799
Amount: 2282.8280
Amount Units: ng/ml



Reviewer: KDZ4, 26-Jul-2023 09:20:29 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Cleveland

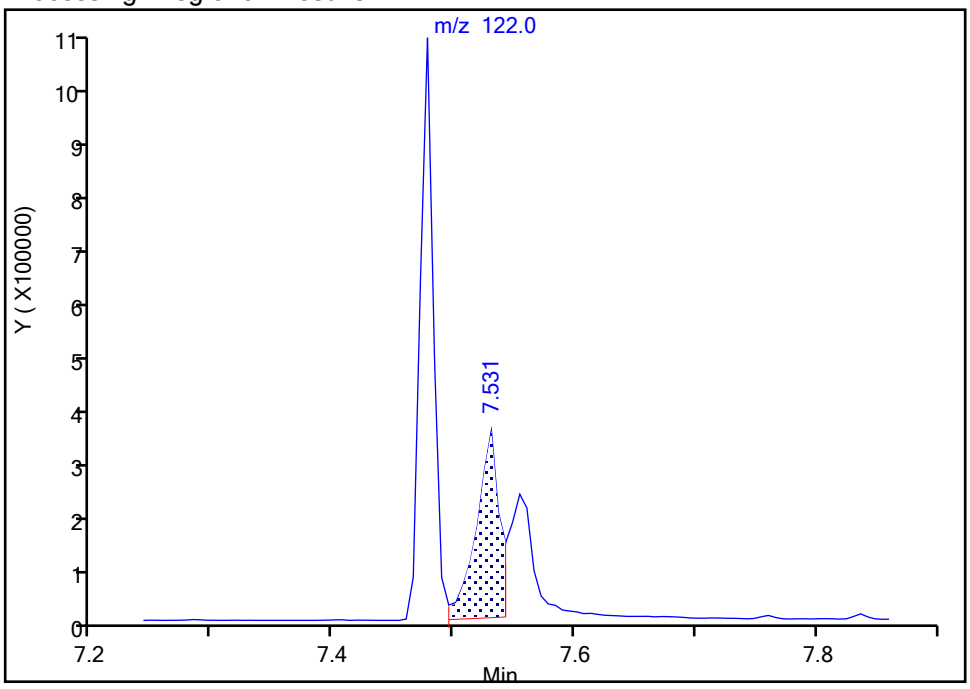
Data File:	\\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\CCV L1LVI.D				
Injection Date:	26-Jul-2023 08:38:30	Instrument ID:	A4AG2		
Lims ID:	std6 l1lvi				
Client ID:					
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

70 Benzoic acid, CAS: 65-85-0

Signal: 1

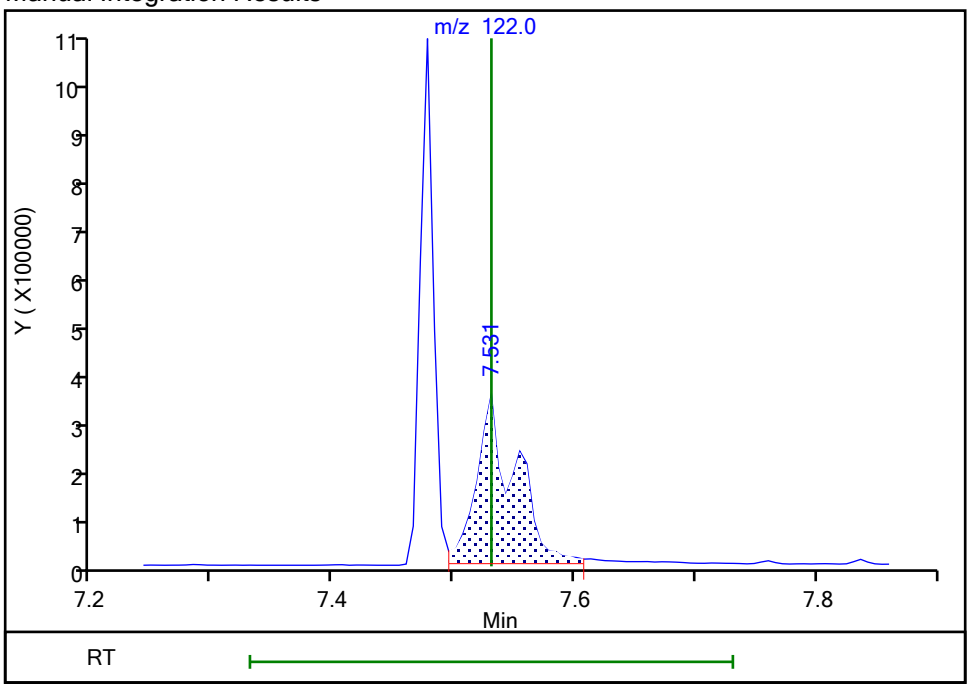
Processing Integration Results

RT: 7.53
Area: 465933
Amount: 2000.0000
Amount Units: ng/ml



Manual Integration Results

RT: 7.53
Area: 754733
Amount: 2074.1853
Amount Units: ng/ml



Reviewer: KDZ4, 26-Jul-2023 09:21:10 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Cleveland
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\CCV L2LVI.D
Lims ID: std5 l1lvi
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 26-Jul-2023 09:05:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 240-0131814-003
Misc. Info.: STD5 L1LVI
Operator ID: Instrument ID: A4AG2
Sublist: chrom-LVI AG2 8270*sub20

Method: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\LVI AG2 8270.m
Limit Group: MSS 8270D ICAL
Last Update: 26-Jul-2023 13:03:00 Calib Date: 26-Jul-2023 11:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\10.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: CTX1679

First Level Reviewer: KDZ4 Date: 26-Jul-2023 09:41:27

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.751	6.748	0.003	95	220741	400.0	400.0	
* 2 Naphthalene-d8	136	7.822	7.819	0.003	99	1047062	400.0	400.0	
* 3 Acenaphthene-d10	164	9.322	9.319	0.003	93	528452	400.0	400.0	
* 4 Phenanthrene-d10	188	10.610	10.613	-0.003	97	855683	400.0	400.0	
* 5 Chrysene-d12	240	13.568	13.566	0.002	97	577711	400.0	400.0	
* 6 Perylene-d12	264	15.957	15.960	-0.003	94	549119	400.0	400.0	
$ 7 2-Fluorophenol	112	5.687	5.684	0.003	90	199941	500.0	460.5	
$ 8 Phenol-d5	99	6.392	6.390	0.002	0	372662	500.0	453.7	
$ 9 Nitrobenzene-d5	82	7.198	7.195	0.003	85	484690	500.0	531.2	
$ 10 2-Fluorobiphenyl (Surr)	172	8.716	8.713	0.003	100	924015	500.0	521.0	
$ 11 2,4,6-Tribromophenol	330	9.998	9.995	0.003	89	78257	500.0	479.2	
$ 12 Terphenyl-d14	244	12.110	12.113	-0.003	96	847949	500.0	510.4	
26 1,4-Dioxane	88	4.293	4.296	-0.003	96	54609	500.0	418.0	
27 N-Nitrosodimethylamine	74	4.551	4.549	0.002	94	222093	500.0	479.6	
28 Pyridine	79	4.610	4.607	0.003	98	297467	1000.0	853.4	
42 Benzaldehyde	77	6.392	6.390	0.002	94	473967	1000.0	1109.0	
43 Phenol	94	6.404	6.401	0.003	97	376245	500.0	440.3	
44 Aniline	93	6.469	6.466	0.003	98	690671	500.0	571.6	
45 Bis(2-chloroethyl)ether	93	6.498	6.490	0.008	98	464206	500.0	549.4	
47 2-Chlorophenol	128	6.581	6.578	0.003	96	390939	500.0	507.4	
244 n-Decane	57	6.587	6.584	0.003	90	356566	500.0	486.4	
48 1,3-Dichlorobenzene	146	6.710	6.707	0.003	98	452311	500.0	508.9	
49 1,4-Dichlorobenzene	146	6.763	6.760	0.003	95	462448	500.0	505.3	
50 Benzyl alcohol	108	6.834	6.831	0.003	97	305244	500.0	591.2	
51 1,2-Dichlorobenzene	146	6.898	6.896	0.002	98	462167	500.0	523.5	
52 2-Methylphenol	108	6.904	6.907	-0.003	94	397150	500.0	539.8	
54 2,2'-oxybis[1-chloropropane]	45	6.939	6.937	0.002	94	612713	500.0	563.6	
53 Indene	115	6.969	6.966	0.003	89	1708738	1000.0	1129.8	
55 3 & 4 Methylphenol	108	7.028	7.025	0.003	95	433772	500.0	558.9	
57 N-Nitrosodi-n-propylamine	70	7.051	7.043	0.008	84	321024	500.0	572.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
58 Acetophenone	105	7.063	7.060	0.003	97	653558	500.0	565.0	
61 Hexachloroethane	117	7.187	7.190	-0.004	94	168921	500.0	508.9	
62 Nitrobenzene	77	7.216	7.213	0.003	85	453757	500.0	521.2	
64 Isophorone	82	7.410	7.407	0.003	99	891879	500.0	524.4	
65 2-Nitrophenol	139	7.481	7.478	0.003	94	215832	500.0	481.0	
66 2,4-Dimethylphenol	107	7.481	7.478	0.003	91	404491	500.0	556.5	
70 Benzoic acid	122	7.522	7.531	-0.009	87	275086	1000.0	956.6	M
69 Bis(2-chloroethoxy)methane	93	7.557	7.548	0.009	99	533305	500.0	510.0	
72 2,4-Dichlorophenol	162	7.681	7.678	0.003	94	341752	500.0	514.7	
73 1,2,4-Trichlorobenzene	180	7.763	7.760	0.003	95	359135	500.0	496.2	
74 Naphthalene	128	7.839	7.837	0.002	96	1502817	500.0	517.3	
75 4-Chloroaniline	127	7.863	7.860	0.003	97	545478	500.0	530.8	
76 2,6-Dichlorophenol	162	7.875	7.872	0.003	98	360333	500.0	517.3	
78 Hexachlorobutadiene	225	7.934	7.931	0.003	97	161463	500.0	497.4	
83 Caprolactam	113	8.145	8.148	-0.003	83	303747	1000.0	1006.8	
85 4-Chloro-3-methylphenol	107	8.234	8.231	0.003	96	389227	500.0	507.4	
86 2-Methylnaphthalene	142	8.422	8.419	0.003	93	972022	500.0	520.7	
87 1-Methylnaphthalene	142	8.510	8.507	0.003	94	900409	500.0	516.5	
89 Hexachlorocyclopentadiene	237	8.563	8.560	0.003	96	157249	500.0	524.3	
90 1,2,4,5-Tetrachlorobenzene	216	8.569	8.566	0.003	98	314632	500.0	528.9	
93 2,4,6-Trichlorophenol	196	8.645	8.642	0.003	93	207444	500.0	495.7	
94 2,4,5-Trichlorophenol	196	8.686	8.684	0.002	92	221279	500.0	517.9	
99 1,1'-Biphenyl	154	8.810	8.807	0.003	94	1119918	500.0	524.0	
100 2-Chloronaphthalene	162	8.845	8.842	0.003	97	806660	500.0	516.7	
101 2-Nitroaniline	65	8.904	8.901	0.003	90	213783	500.0	491.7	
104 Dimethyl phthalate	163	9.033	9.031	0.002	99	901316	500.0	512.8	
103 1,3-Dinitrobenzene	168	9.069	9.066	0.003	86	124437	500.0	483.1	
106 2,6-Dinitrotoluene	165	9.092	9.089	0.003	97	202452	500.0	543.8	
108 Acenaphthylene	152	9.204	9.207	-0.003	98	1375651	500.0	536.0	
109 3-Nitroaniline	138	9.251	9.254	-0.003	97	156918	500.0	525.2	
110 2,4-Dinitrophenol	184	9.333	9.331	0.002	78	115939	1000.0	968.0	
111 Acenaphthene	153	9.351	9.348	0.003	94	870663	500.0	522.0	
112 4-Nitrophenol	109	9.351	9.354	-0.003	47	180175	1000.0	941.4	a
113 2,4-Dinitrotoluene	165	9.439	9.442	-0.003	94	255609	500.0	507.2	
115 Dibenzofuran	168	9.498	9.495	0.003	97	1136784	500.0	537.3	
118 2,3,4,6-Tetrachlorophenol	232	9.592	9.589	0.003	78	147296	500.0	512.3	
248 Hexadecane	57	9.616	9.613	0.003	94	579346	NC	NC	
120 Diethyl phthalate	149	9.628	9.625	0.003	98	913939	500.0	520.1	
122 4-Chlorophenyl phenyl ether	204	9.757	9.760	-0.003	97	370837	500.0	511.2	
125 4-Nitroaniline	138	9.780	9.778	0.002	92	198682	500.0	505.7	
124 Fluorene	166	9.792	9.789	0.003	94	940708	500.0	528.5	
127 4,6-Dinitro-2-methylphenol	198	9.798	9.795	0.003	83	196242	1000.0	939.0	
129 Diphenylamine	169	9.851	9.854	-0.003	95	670173	425.0	424.7	
128 N-Nitrosodiphenylamine	169	9.851	9.854	-0.003	97	670173	500.0	499.7	
131 Azobenzene	77	9.898	9.895	0.003	98	946529	500.0	488.1	
138 4-Bromophenyl phenyl ether	248	10.186	10.184	0.002	71	194286	500.0	487.8	
141 Atrazine	200	10.275	10.278	-0.003	90	425993	1000.0	1037.6	
140 Hexachlorobenzene	284	10.280	10.284	-0.004	86	198049	500.0	469.9	
245 n-Octadecane	57	10.404	10.401	0.003	96	624732	500.0	514.4	
143 Pentachlorophenol	266	10.439	10.436	0.003	89	207120	1000.0	959.3	
148 Phenanthrene	178	10.633	10.631	0.002	98	1284276	500.0	508.6	
149 Anthracene	178	10.680	10.678	0.002	98	1272184	500.0	520.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
150 Carbazole	167	10.792	10.795	-0.003	96	1142869	500.0	513.6	
154 Di-n-butyl phthalate	149	11.027	11.025	0.002	100	1554676	500.0	525.2	
159 Fluoranthene	202	11.751	11.748	0.003	99	1119933	500.0	500.5	
160 Benzidine	184	11.839	11.836	0.003	100	622984	1000.0	995.9	
161 Pyrene	202	12.010	12.007	0.003	96	1201770	500.0	528.3	
169 Butyl benzyl phthalate	149	12.651	12.648	0.003	97	592677	500.0	485.1	
174 Bis(2-ethylhexyl) phthalate	149	13.421	13.419	0.002	99	838616	500.0	493.2	
177 3,3'-Dichlorobenzidine	252	13.457	13.460	-0.003	77	629221	1000.0	993.5	
178 Benzo[a]anthracene	228	13.545	13.548	-0.003	98	997040	500.0	517.8	
179 Chrysene	228	13.604	13.607	-0.003	97	972943	500.0	506.8	
181 Di-n-octyl phthalate	149	14.451	14.448	0.003	99	1262385	500.0	484.4	
183 Benzo[b]fluoranthene	252	15.292	15.295	-0.003	97	903331	500.0	531.8	
184 Benzo[k]fluoranthene	252	15.333	15.336	-0.003	96	911723	500.0	519.6	
185 Benzo[a]pyrene	252	15.857	15.866	-0.009	83	811644	500.0	483.7	
190 Indeno[1,2,3-cd]pyrene	276	18.115	18.124	-0.009	93	915637	500.0	487.8	
189 Dibenz(a,h)anthracene	278	18.127	18.136	-0.009	90	760444	500.0	484.4	
191 Benzo[g,h,i]perylene	276	18.768	18.777	-0.009	91	743083	500.0	535.5	
S 246 Total Cresols	100				0			1098.8	
S 193 Methyl Phenols,Total	100				0			1098.8	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

SMLIST1 L5 W_00021 Amount Added: 0.10 Units: mL

Report Date: 26-Jul-2023 13:03:01 Chrom Revision: 2.3 19-Jul-2023 18:28:48

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\CCV L2LVI.D

Injection Date: 26-Jul-2023 09:05:30 Instrument ID: A4AG2 Operator ID:

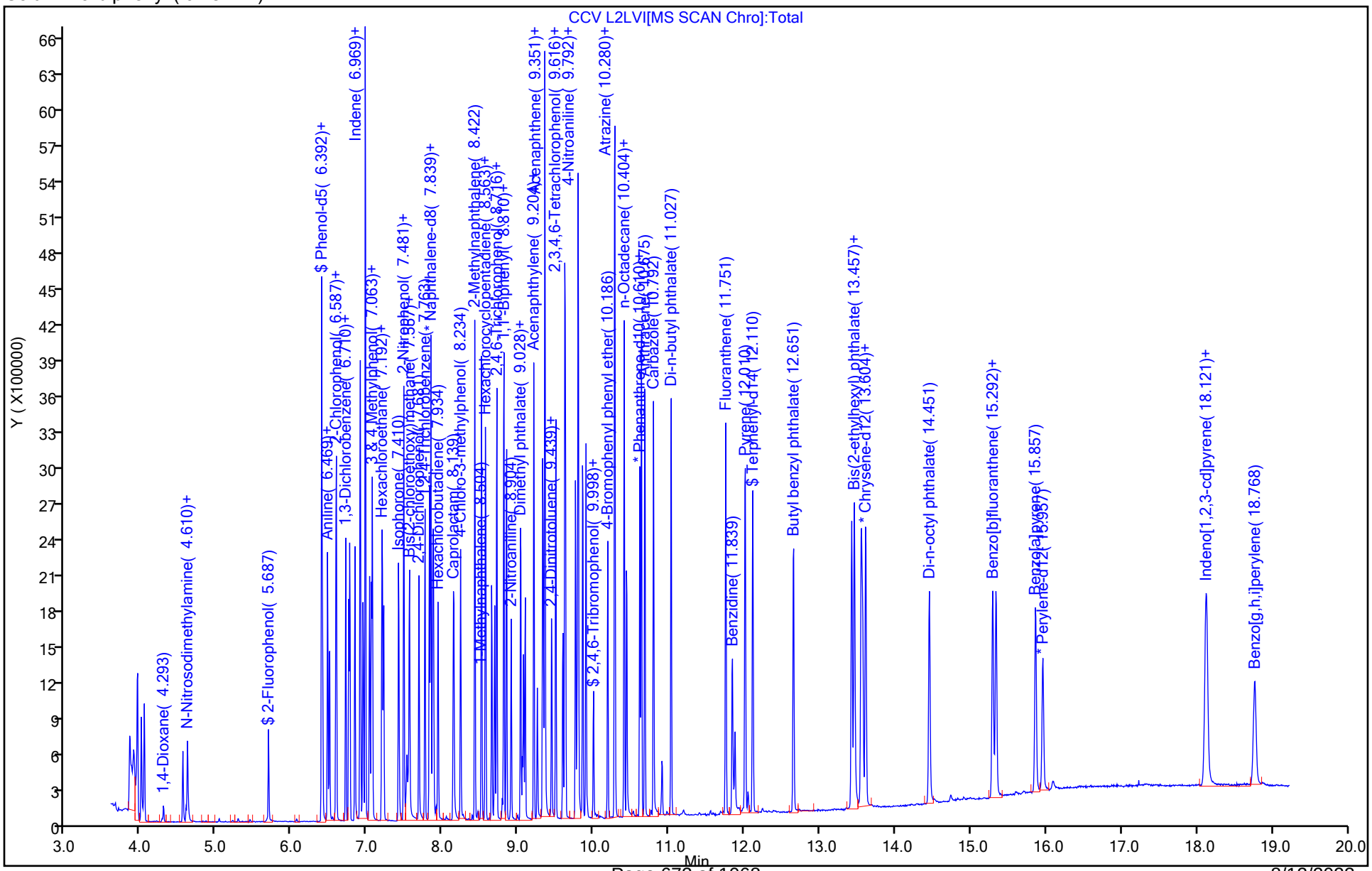
Lims ID: std5 l1lvi Worklist Smp#: 3

Client ID:

Injection Vol: 5.0 ul Dil. Factor: 1.0000 ALS Bottle#: 3

Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL

Column: 5% phenyl (0.18 mm)



8/12/2023
10:47 AM

Manual Integration/User Assign Peak Report

Eurofins Cleveland

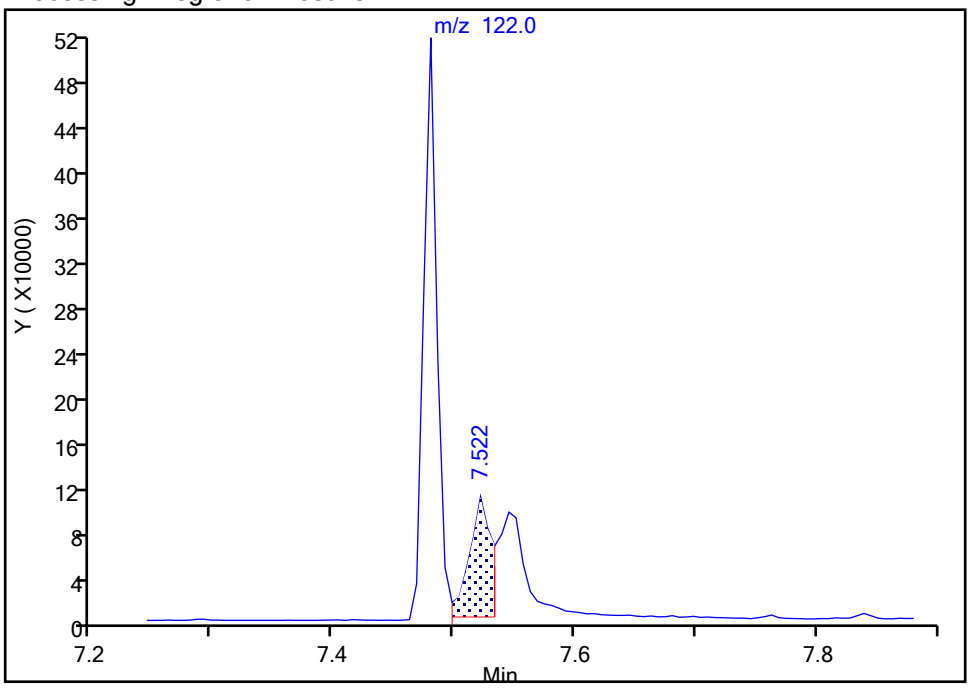
Data File: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\CCV L2LVI.D
Injection Date: 26-Jul-2023 09:05:30 Instrument ID: A4AG2
Lims ID: std5 l1lvi
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL
Column: 5% phenyl (0.18 mm) Detector MS SCAN

70 Benzoic acid, CAS: 65-85-0

Signal: 1

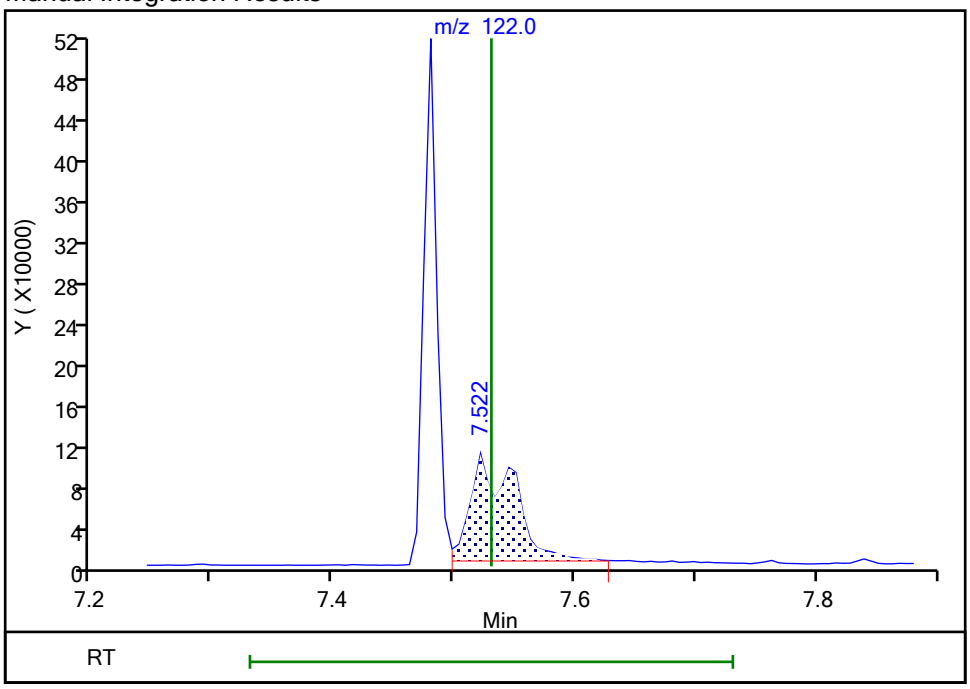
Processing Integration Results

RT: 7.52
Area: 140283
Amount: 540.5188
Amount Units: ng/ml



Manual Integration Results

RT: 7.52
Area: 275086
Amount: 956.5712
Amount Units: ng/ml



Reviewer: KDZ4, 26-Jul-2023 09:39:25 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Cleveland

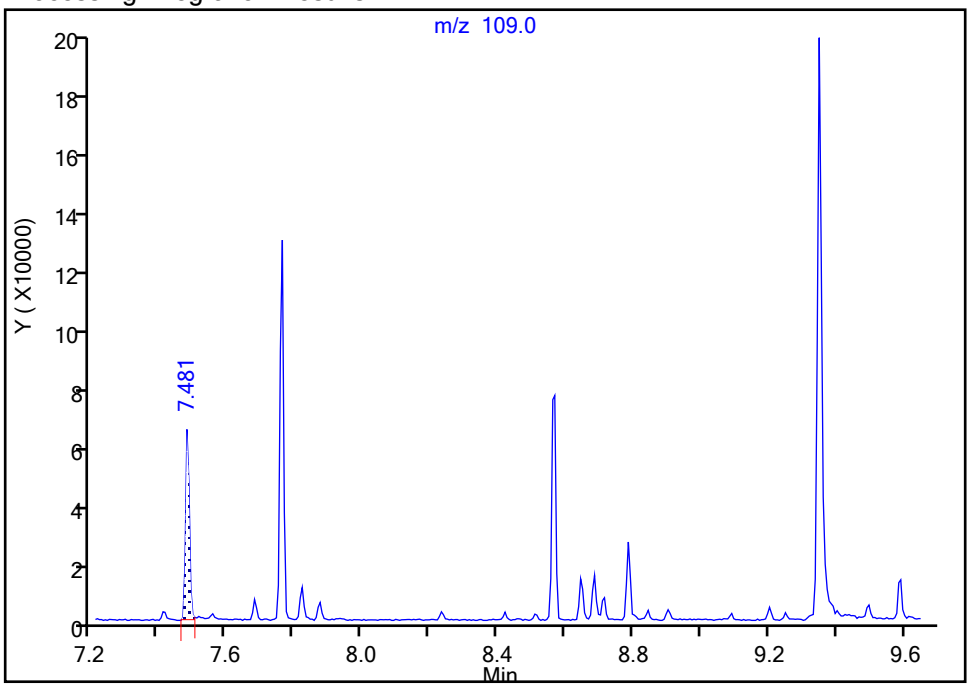
Data File: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\CCV L2LVI.D
Injection Date: 26-Jul-2023 09:05:30 Instrument ID: A4AG2
Lims ID: std5 l1lvi
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL
Column: 5% phenyl (0.18 mm) Detector MS SCAN

112 4-Nitrophenol, CAS: 100-02-7

Signal: 1

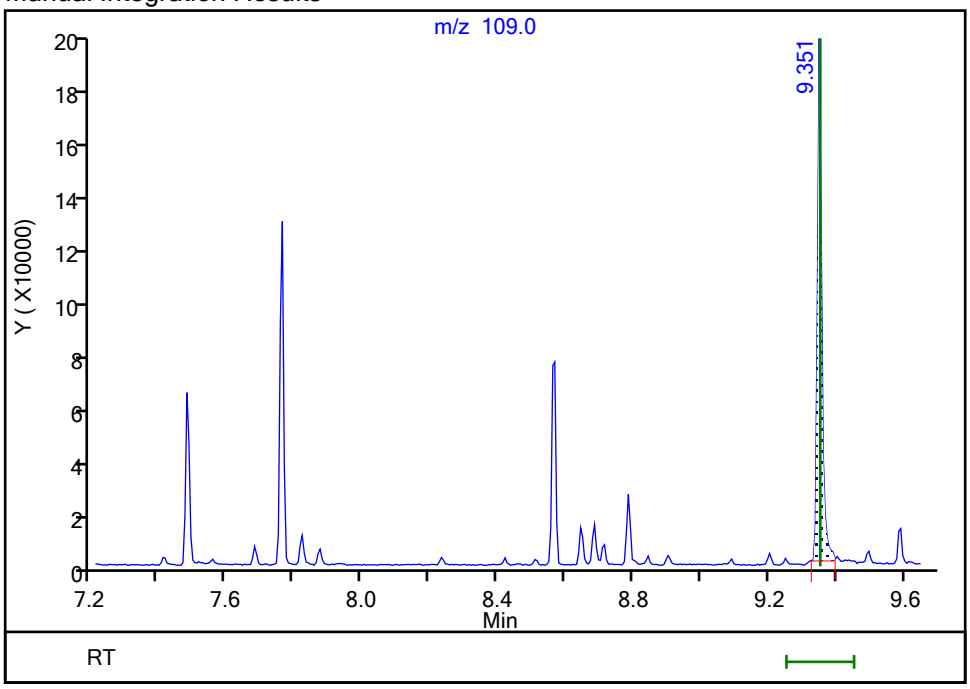
Processing Integration Results

RT: 7.48
Area: 51550
Amount: 409.3034
Amount Units: ng/ml



Manual Integration Results

RT: 9.35
Area: 180175
Amount: 941.4217
Amount Units: ng/ml



Reviewer: KDZ4, 26-Jul-2023 09:40:26 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Eurofins Cleveland
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\CCV L3LVI.D
Lims ID: std4 l1lvi
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 26-Jul-2023 09:28:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 240-0131814-004
Misc. Info.: STD4 L1LVI
Operator ID: Instrument ID: A4AG2
Sublist: chrom-LVI AG2 8270*sub20

Method: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\LVI AG2 8270.m
Limit Group: MSS 8270D ICAL
Last Update: 26-Jul-2023 13:03:14 Calib Date: 26-Jul-2023 11:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\10.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: CTX1679

First Level Reviewer: KDZ4 Date: 26-Jul-2023 09:58:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.751	6.748	0.003	96	236444	400.0	400.0	
* 2 Naphthalene-d8	136	7.822	7.819	0.003	99	1016167	400.0	400.0	
* 3 Acenaphthene-d10	164	9.322	9.319	0.003	92	542897	400.0	400.0	
* 4 Phenanthrene-d10	188	10.610	10.613	-0.003	97	848395	400.0	400.0	
* 5 Chrysene-d12	240	13.563	13.566	-0.003	97	556012	400.0	400.0	
* 6 Perylene-d12	264	15.951	15.960	-0.009	94	534978	400.0	400.0	
$ 7 2-Fluorophenol	112	5.687	5.684	0.003	90	105661	200.0	227.2	
$ 8 Phenol-d5	99	6.392	6.390	0.002	0	190386	200.0	216.4	
$ 9 Nitrobenzene-d5	82	7.198	7.195	0.003	88	179414	200.0	202.6	
$ 10 2-Fluorobiphenyl (Surr)	172	8.716	8.713	0.003	100	355845	200.0	195.3	
$ 11 2,4,6-Tribromophenol	330	9.998	9.995	0.003	90	28124	200.0	189.6	
$ 12 Terphenyl-d14	244	12.104	12.113	-0.009	96	331782	200.0	207.5	
26 1,4-Dioxane	88	4.298	4.296	0.002	94	26075	200.0	186.3	
27 N-Nitrosodimethylamine	74	4.557	4.549	0.008	94	95780	200.0	193.1	
28 Pyridine	79	4.616	4.607	0.009	96	143595	400.0	384.6	
42 Benzaldehyde	77	6.392	6.390	0.002	95	228213	400.0	424.7	
43 Phenol	94	6.404	6.401	0.003	98	195949	200.0	214.1	
44 Aniline	93	6.475	6.466	0.009	99	248917	200.0	192.3	
45 Bis(2-chloroethyl)ether	93	6.498	6.490	0.008	97	182380	200.0	201.5	
47 2-Chlorophenol	128	6.581	6.578	0.003	96	172319	200.0	208.8	
244 n-Decane	57	6.598	6.584	0.014	90	166413	200.0	211.9	
48 1,3-Dichlorobenzene	146	6.710	6.707	0.003	99	192243	200.0	201.9	
49 1,4-Dichlorobenzene	146	6.769	6.760	0.009	96	197057	200.0	201.0	
50 Benzyl alcohol	108	6.839	6.831	0.008	96	105608	200.0	191.0	
51 1,2-Dichlorobenzene	146	6.904	6.896	0.008	97	191084	200.0	202.1	
52 2-Methylphenol	108	6.910	6.907	0.003	93	160090	200.0	203.2	
54 2,2'-oxybis[1-chloropropane]	45	6.945	6.937	0.008	95	244490	200.0	210.0	
53 Indene	115	6.975	6.966	0.009	90	677551	400.0	418.2	
55 3 & 4 Methylphenol	108	7.028	7.025	0.003	96	137870	200.0	181.1	
57 N-Nitrosodi-n-propylamine	70	7.057	7.043	0.014	87	124089	200.0	206.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
58 Acetophenone	105	7.069	7.060	0.009	97	254265	200.0	205.2	
61 Hexachloroethane	117	7.192	7.190	0.002	94	69430	200.0	195.3	
62 Nitrobenzene	77	7.216	7.213	0.003	85	170983	200.0	202.4	
64 Isophorone	82	7.422	7.407	0.015	99	331441	200.0	200.8	
65 2-Nitrophenol	139	7.486	7.478	0.008	75	70577	200.0	182.2	
66 2,4-Dimethylphenol	107	7.486	7.478	0.008	88	133309	200.0	189.0	
70 Benzoic acid	122	7.539	7.531	0.008	85	50845	400.0	365.7	M
69 Bis(2-chloroethoxy)methane	93	7.563	7.548	0.015	98	208272	200.0	205.2	
72 2,4-Dichlorophenol	162	7.686	7.678	0.008	93	103513	200.0	184.0	
73 1,2,4-Trichlorobenzene	180	7.763	7.760	0.003	94	141619	200.0	201.6	
74 Naphthalene	128	7.839	7.837	0.002	96	576855	200.0	204.6	
75 4-Chloroaniline	127	7.863	7.860	0.003	96	195311	200.0	195.8	
76 2,6-Dichlorophenol	162	7.881	7.872	0.009	98	123908	200.0	196.7	
78 Hexachlorobutadiene	225	7.945	7.931	0.014	96	62206	200.0	197.5	
83 Caprolactam	113	8.139	8.148	-0.009	84	112600	400.0	394.3	
85 4-Chloro-3-methylphenol	107	8.239	8.231	0.008	96	137161	200.0	200.8	
86 2-Methylnaphthalene	142	8.428	8.419	0.009	93	375764	200.0	207.4	
87 1-Methylnaphthalene	142	8.516	8.507	0.009	94	352028	200.0	208.1	
89 Hexachlorocyclopentadiene	237	8.563	8.560	0.003	95	54893	200.0	178.1	
90 1,2,4,5-Tetrachlorobenzene	216	8.569	8.566	0.003	97	117600	200.0	192.4	
93 2,4,6-Trichlorophenol	196	8.651	8.642	0.009	94	72525	200.0	186.6	
94 2,4,5-Trichlorophenol	196	8.686	8.684	0.002	93	66879	200.0	186.5	
99 1,1'-Biphenyl	154	8.810	8.807	0.003	94	438716	200.0	199.8	
100 2-Chloronaphthalene	162	8.845	8.842	0.003	97	322586	200.0	201.1	
101 2-Nitroaniline	65	8.904	8.901	0.003	87	77223	200.0	188.1	
104 Dimethyl phthalate	163	9.033	9.031	0.002	99	356402	200.0	197.4	
103 1,3-Dinitrobenzene	168	9.069	9.066	0.003	86	38510	200.0	172.4	
106 2,6-Dinitrotoluene	165	9.092	9.089	0.003	96	73766	200.0	192.9	
108 Acenaphthylene	152	9.204	9.207	-0.003	98	530480	200.0	201.2	
109 3-Nitroaniline	138	9.251	9.254	-0.003	95	72808	200.0	237.2	
110 2,4-Dinitrophenol	184	9.333	9.331	0.002	82	28421	400.0	384.3	M
111 Acenaphthene	153	9.351	9.348	0.003	94	344773	200.0	201.2	
112 4-Nitrophenol	109	9.351	9.354	-0.003	88	64675	400.0	367.9	
113 2,4-Dinitrotoluene	165	9.439	9.442	-0.003	93	86710	200.0	187.4	
115 Dibenzofuran	168	9.498	9.495	0.003	96	454390	200.0	209.1	
118 2,3,4,6-Tetrachlorophenol	232	9.592	9.589	0.003	79	50649	200.0	195.5	
248 Hexadecane	57	9.616	9.613	0.003	93	250629	NC	NC	
120 Diethyl phthalate	149	9.628	9.625	0.003	98	364320	200.0	201.8	
122 4-Chlorophenyl phenyl ether	204	9.757	9.760	-0.003	97	147218	200.0	197.5	
125 4-Nitroaniline	138	9.780	9.778	0.002	87	81481	200.0	200.8	
124 Fluorene	166	9.792	9.789	0.003	95	373035	200.0	204.0	
127 4,6-Dinitro-2-methylphenol	198	9.798	9.795	0.003	85	56217	400.0	392.0	
129 Diphenylamine	169	9.851	9.854	-0.003	95	260947	170.0	166.8	
128 N-Nitrosodiphenylamine	169	9.851	9.854	-0.003	98	260947	200.0	196.2	
131 Azobenzene	77	9.898	9.895	0.003	98	387097	200.0	201.3	
138 4-Bromophenyl phenyl ether	248	10.186	10.184	0.002	73	75875	200.0	192.1	
141 Atrazine	200	10.275	10.278	-0.003	89	165604	400.0	406.8	
140 Hexachlorobenzene	284	10.280	10.284	-0.004	88	75608	200.0	184.6	
245 n-Octadecane	57	10.404	10.401	0.003	95	250827	200.0	208.3	
143 Pentachlorophenol	266	10.433	10.436	-0.003	88	57439	400.0	389.9	
148 Phenanthrene	178	10.627	10.631	-0.004	98	499920	200.0	199.7	
149 Anthracene	178	10.675	10.678	-0.003	98	489169	200.0	201.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
150 Carbazole	167	10.792	10.795	-0.003	96	441771	200.0	200.2	
154 Di-n-butyl phthalate	149	11.022	11.025	-0.003	100	562219	200.0	191.6	
159 Fluoranthene	202	11.745	11.748	-0.003	99	433547	200.0	195.4	
160 Benzidine	184	11.833	11.836	-0.003	99	179231	400.0	392.1	
161 Pyrene	202	12.004	12.007	-0.003	96	454788	200.0	207.7	
169 Butyl benzyl phthalate	149	12.645	12.648	-0.003	98	204759	200.0	190.5	
174 Bis(2-ethylhexyl) phthalate	149	13.416	13.419	-0.003	99	273984	200.0	187.1	
177 3,3'-Dichlorobenzidine	252	13.451	13.460	-0.009	77	221800	400.0	396.5	
178 Benzo[a]anthracene	228	13.545	13.548	-0.003	99	370414	200.0	199.9	
179 Chrysene	228	13.598	13.607	-0.009	97	378978	200.0	205.1	
181 Di-n-octyl phthalate	149	14.445	14.448	-0.003	99	397324	200.0	183.7	
183 Benzo[b]fluoranthene	252	15.286	15.295	-0.009	97	327169	200.0	197.7	
184 Benzo[k]fluoranthene	252	15.327	15.336	-0.009	96	344238	200.0	201.4	
185 Benzo[a]pyrene	252	15.851	15.866	-0.015	82	294830	200.0	185.3	
190 Indeno[1,2,3-cd]pyrene	276	18.109	18.124	-0.015	93	331247	200.0	185.7	
189 Dibenz(a,h)anthracene	278	18.121	18.136	-0.015	89	274755	200.0	184.1	
191 Benzo[g,h,i]perylene	276	18.750	18.777	-0.027	91	275979	200.0	204.1	
S 246 Total Cresols	100				0			384.3	
S 193 Methyl Phenols,Total	100				0			384.3	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

SMLIST1 L4 W_00021 Amount Added: 0.10 Units: mL

Report Date: 26-Jul-2023 13:03:15 Chrom Revision: 2.3 19-Jul-2023 18:28:48

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\CCV L3LVI.D

Injection Date: 26-Jul-2023 09:28:30 Instrument ID: A4AG2 Operator ID:

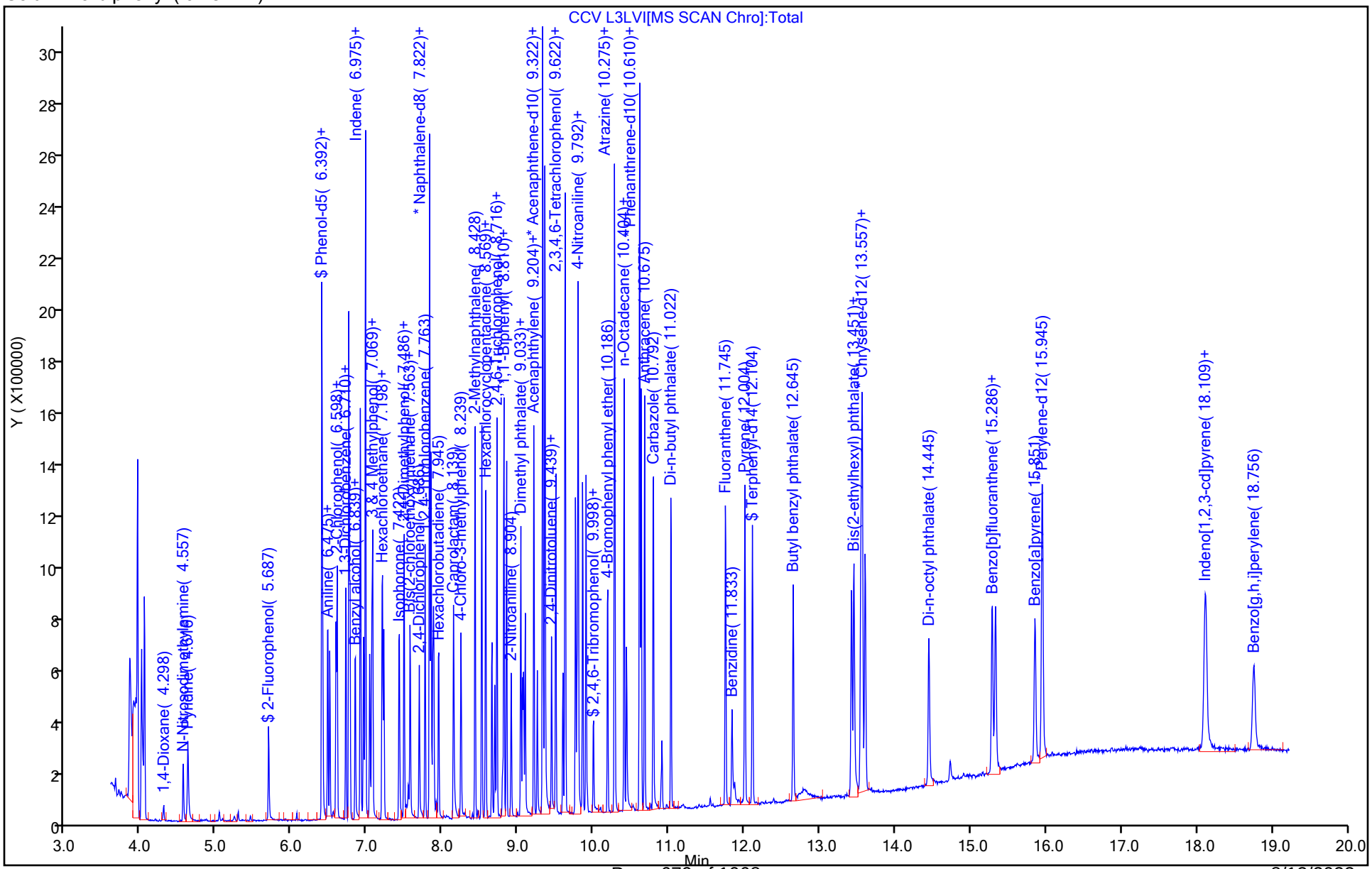
Lims ID: std4 l1lvi Worklist Smp#: 4

Client ID:

Injection Vol: 5.0 ul Dil. Factor: 1.0000 ALS Bottle#: 4

Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL

Column: 5% phenyl (0.18 mm)



8/12/2023
10:47 AM

Manual Integration/User Assign Peak Report

Eurofins Cleveland

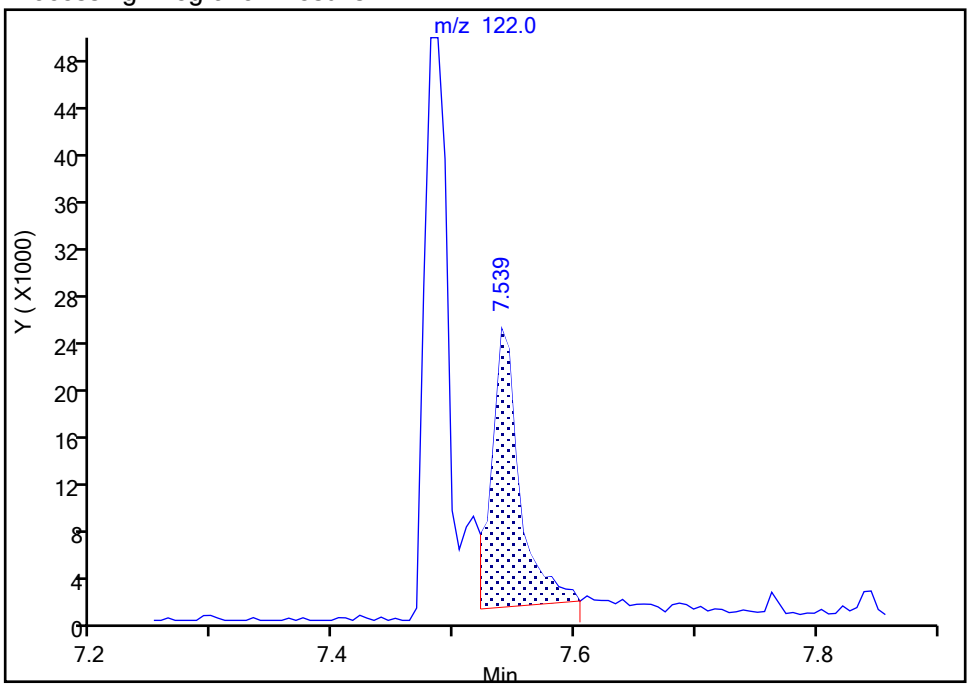
Data File: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\CCV L3LVI.D
Injection Date: 26-Jul-2023 09:28:30 Instrument ID: A4AG2
Lims ID: std4 l1lvi
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL
Column: 5% phenyl (0.18 mm) Detector MS SCAN

70 Benzoic acid, CAS: 65-85-0

Signal: 1

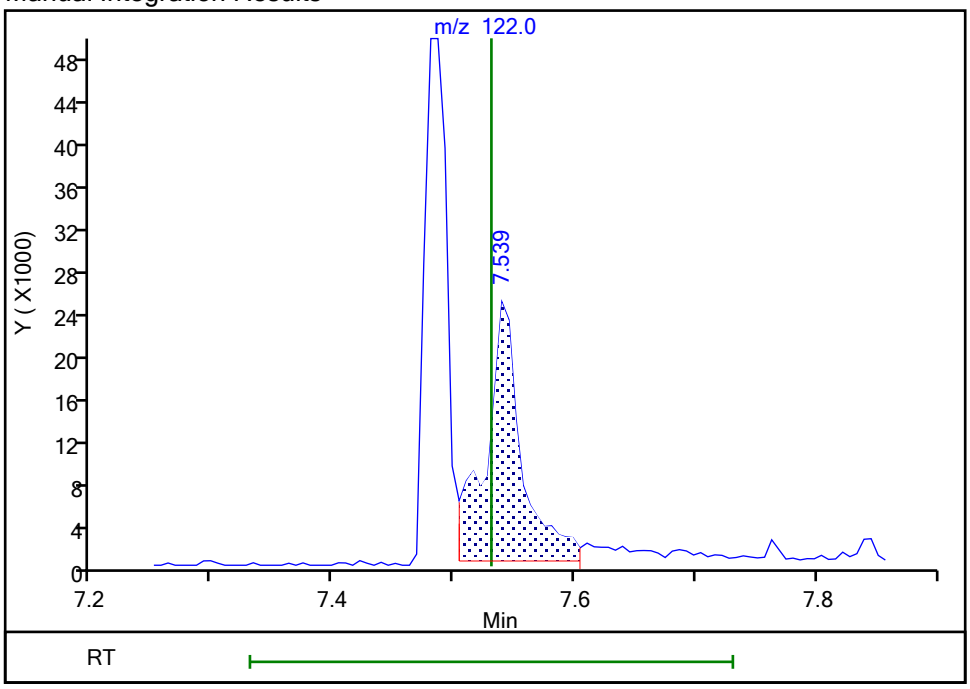
Processing Integration Results

RT: 7.54
Area: 38354
Amount: 157.5194
Amount Units: ng/ml



Manual Integration Results

RT: 7.54
Area: 50845
Amount: 365.6880
Amount Units: ng/ml



Reviewer: KDZ4, 26-Jul-2023 09:55:12 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Cleveland

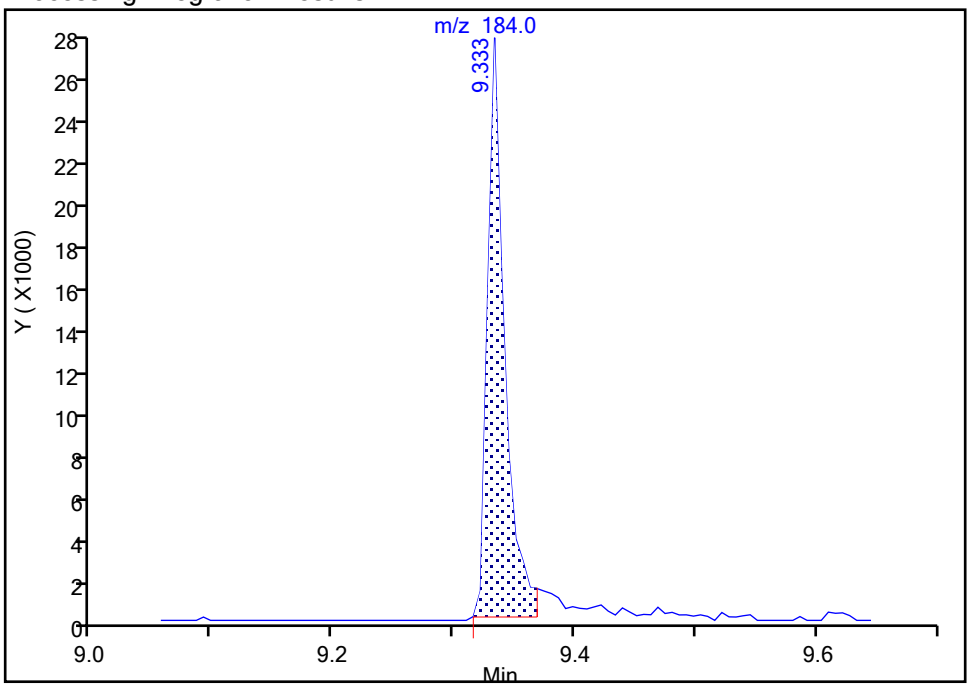
Data File: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\CCV L3LVI.D
Injection Date: 26-Jul-2023 09:28:30 Instrument ID: A4AG2
Lims ID: std4 l1lvi
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL
Column: 5% phenyl (0.18 mm) Detector MS SCAN

110 2,4-Dinitrophenol, CAS: 51-28-5

Signal: 1

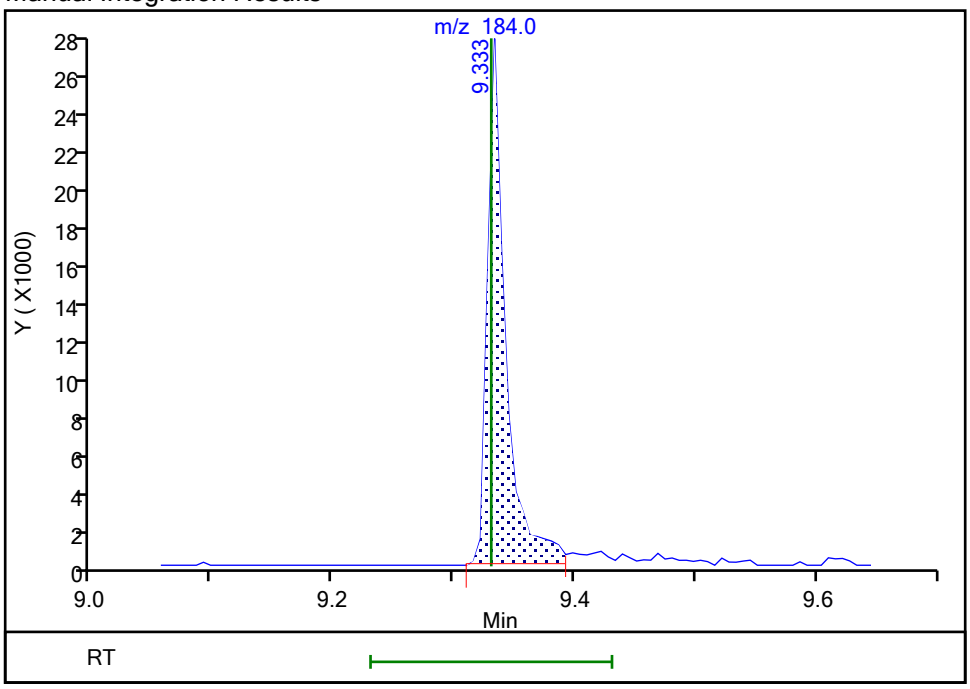
Processing Integration Results

RT: 9.33
Area: 26522
Amount: 234.7391
Amount Units: ng/ml



Manual Integration Results

RT: 9.33
Area: 28421
Amount: 384.3167
Amount Units: ng/ml



Reviewer: KDZ4, 26-Jul-2023 09:56:01 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Cleveland
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\5.D
Lims ID: std3 l1lvi
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 26-Jul-2023 09:51:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 240-0131814-005
Misc. Info.: STD3 L1LVI
Operator ID: Instrument ID: A4AG2
Sublist: chrom-LVI AG2 8270*sub20

Method: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\LVI AG2 8270.m
Limit Group: MSS 8270D ICAL
Last Update: 26-Jul-2023 13:01:52 Calib Date: 26-Jul-2023 11:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\10.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: CTX1679

First Level Reviewer: KDZ4 Date: 26-Jul-2023 10:18:20

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.751	6.748	0.003	96	235148	400.0	400.0	
* 2 Naphthalene-d8	136	7.822	7.819	0.003	99	985068	400.0	400.0	
* 3 Acenaphthene-d10	164	9.322	9.319	0.003	93	515008	400.0	400.0	
* 4 Phenanthrene-d10	188	10.610	10.613	-0.003	97	810252	400.0	400.0	
* 5 Chrysene-d12	240	13.557	13.566	-0.009	97	527401	400.0	400.0	
* 6 Perylene-d12	264	15.951	15.960	-0.009	94	506222	400.0	400.0	
$ 7 2-Fluorophenol	112	5.687	5.684	0.003	90	50402	100.0	109.0	
$ 8 Phenol-d5	99	6.398	6.390	0.008	0	84459	100.0	96.5	
$ 9 Nitrobenzene-d5	82	7.204	7.195	0.009	88	87596	100.0	102.0	
$ 10 2-Fluorobiphenyl (Surr)	172	8.722	8.713	0.009	100	179902	100.0	104.1	
$ 11 2,4,6-Tribromophenol	330	9.998	9.995	0.003	85	11387	100.0	100.2	
$ 12 Terphenyl-d14	244	12.104	12.113	-0.009	96	151780	100.0	100.1	
26 1,4-Dioxane	88	4.299	4.296	0.003	94	15002	100.0	107.8	
27 N-Nitrosodimethylamine	74	4.557	4.549	0.008	93	46105	100.0	93.5	
28 Pyridine	79	4.622	4.607	0.015	98	82111	200.0	221.1	
42 Benzaldehyde	77	6.393	6.390	0.003	94	126949	200.0	198.9	
43 Phenol	94	6.410	6.401	0.009	98	90495	100.0	99.4	
44 Aniline	93	6.475	6.466	0.009	99	118518	100.0	92.1	
45 Bis(2-chloroethyl)ether	93	6.504	6.490	0.014	97	88575	100.0	98.4	
47 2-Chlorophenol	128	6.587	6.578	0.009	94	82672	100.0	100.7	
244 n-Decane	57	6.604	6.584	0.020	90	79577	100.0	101.9	
48 1,3-Dichlorobenzene	146	6.716	6.707	0.009	99	97071	100.0	102.5	
49 1,4-Dichlorobenzene	146	6.769	6.760	0.009	96	101744	100.0	104.4	
50 Benzyl alcohol	108	6.840	6.831	0.009	96	46584	100.0	84.7	
51 1,2-Dichlorobenzene	146	6.904	6.896	0.008	97	97689	100.0	103.9	
52 2-Methylphenol	108	6.910	6.907	0.003	94	73588	100.0	93.9	
54 2,2'-oxybis[1-chloropropane]	45	6.951	6.937	0.014	96	133417	100.0	115.2	
53 Indene	115	6.975	6.966	0.009	90	353422	200.0	219.4	
55 3 & 4 Methylphenol	108	7.034	7.025	0.009	94	63086	100.0	95.0	
57 N-Nitrosodi-n-propylamine	70	7.057	7.043	0.014	88	58247	100.0	97.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
58 Acetophenone	105	7.069	7.060	0.009	98	121926	100.0	99.0	
61 Hexachloroethane	117	7.192	7.190	0.002	92	36572	100.0	103.4	
62 Nitrobenzene	77	7.222	7.213	0.009	86	82774	100.0	101.1	
64 Isophorone	82	7.428	7.407	0.021	99	155593	100.0	97.2	
65 2-Nitrophenol	139	7.487	7.478	0.009	74	29700	100.0	96.3	
66 2,4-Dimethylphenol	107	7.487	7.478	0.009	90	57400	100.0	83.9	
70 Benzoic acid	122	7.540	7.531	0.009	90	14317	200.0	260.8	M
69 Bis(2-chloroethoxy)methane	93	7.569	7.548	0.021	99	103362	100.0	105.1	
72 2,4-Dichlorophenol	162	7.692	7.678	0.014	94	40985	100.0	95.2	
73 1,2,4-Trichlorobenzene	180	7.763	7.760	0.003	95	69291	100.0	101.8	
74 Naphthalene	128	7.845	7.837	0.008	97	288029	100.0	105.4	
75 4-Chloroaniline	127	7.869	7.860	0.009	97	82077	100.0	84.9	
76 2,6-Dichlorophenol	162	7.881	7.872	0.009	98	48730	100.0	92.1	
78 Hexachlorobutadiene	225	7.945	7.931	0.014	94	29665	100.0	97.1	
83 Caprolactam	113	8.139	8.148	-0.009	83	47025	200.0	178.8	M
85 4-Chloro-3-methylphenol	107	8.239	8.231	0.008	97	54397	100.0	97.5	
86 2-Methylnaphthalene	142	8.428	8.419	0.009	92	171379	100.0	97.6	
87 1-Methylnaphthalene	142	8.516	8.507	0.009	94	162778	100.0	99.2	
89 Hexachlorocyclopentadiene	237	8.563	8.560	0.003	94	24267	100.0	83.0	
90 1,2,4,5-Tetrachlorobenzene	216	8.569	8.566	0.003	97	53633	100.0	92.5	
93 2,4,6-Trichlorophenol	196	8.651	8.642	0.009	93	29774	100.0	96.1	
94 2,4,5-Trichlorophenol	196	8.692	8.684	0.008	94	15439	100.0	82.0	
99 1,1'-Biphenyl	154	8.810	8.807	0.003	94	212444	100.0	102.0	
100 2-Chloronaphthalene	162	8.845	8.842	0.003	98	150607	100.0	99.0	
101 2-Nitroaniline	65	8.910	8.901	0.009	87	31322	100.0	93.9	
104 Dimethyl phthalate	163	9.034	9.031	0.003	99	172479	100.0	100.7	
103 1,3-Dinitrobenzene	168	9.069	9.066	0.003	85	15597	100.0	95.7	
106 2,6-Dinitrotoluene	165	9.092	9.089	0.003	96	31401	100.0	86.6	
108 Acenaphthylene	152	9.210	9.207	0.003	98	249506	100.0	99.8	
109 3-Nitroaniline	138	9.251	9.254	-0.003	95	30642	100.0	105.2	
110 2,4-Dinitrophenol	184	9.334	9.331	0.003	64	9401	200.0	256.2	
111 Acenaphthene	153	9.351	9.348	0.003	94	168206	100.0	103.5	
112 4-Nitrophenol	109	9.357	9.354	0.003	86	27041	200.0	195.6	
113 2,4-Dinitrotoluene	165	9.445	9.442	0.003	90	34210	100.0	95.3	
115 Dibenzofuran	168	9.498	9.495	0.003	96	221731	100.0	107.5	
118 2,3,4,6-Tetrachlorophenol	232	9.592	9.589	0.003	80	18015	100.0	95.8	
248 Hexadecane	57	9.622	9.613	0.009	94	114049	NC	NC	
120 Diethyl phthalate	149	9.628	9.625	0.003	98	176140	100.0	102.9	
122 4-Chlorophenyl phenyl ether	204	9.757	9.760	-0.003	98	71239	100.0	100.8	
125 4-Nitroaniline	138	9.781	9.778	0.003	85	33639	100.0	93.3	
124 Fluorene	166	9.792	9.789	0.003	95	182650	100.0	105.3	
127 4,6-Dinitro-2-methylphenol	198	9.798	9.795	0.003	82	17806	200.0	236.0	
129 Diphenylamine	169	9.851	9.854	-0.003	95	125477	85.0	84.0	
128 N-Nitrosodiphenylamine	169	9.851	9.854	-0.003	98	125477	100.0	98.8	
131 Azobenzene	77	9.898	9.895	0.003	98	186895	100.0	101.8	
138 4-Bromophenyl phenyl ether	248	10.186	10.184	0.002	73	36662	100.0	97.2	
141 Atrazine	200	10.275	10.278	-0.003	89	75643	200.0	194.6	
140 Hexachlorobenzene	284	10.281	10.284	-0.003	88	34330	100.0	90.8	
245 n-Octadecane	57	10.404	10.401	0.003	95	111113	100.0	96.6	
143 Pentachlorophenol	266	10.433	10.436	-0.003	86	20027	200.0	243.8	
148 Phenanthrene	178	10.628	10.631	-0.003	98	242010	100.0	101.2	
149 Anthracene	178	10.675	10.678	-0.003	98	226571	100.0	97.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
150 Carbazole	167	10.792	10.795	-0.003	96	209509	100.0	99.4	
154 Di-n-butyl phthalate	149	11.022	11.025	-0.003	100	256551	100.0	91.5	
159 Fluoranthene	202	11.745	11.748	-0.003	99	208336	100.0	98.3	
160 Benzidine	184	11.833	11.836	-0.003	99	59329	200.0	207.5	
161 Pyrene	202	12.004	12.007	-0.003	95	212120	100.0	102.1	
169 Butyl benzyl phthalate	149	12.645	12.648	-0.003	97	83912	100.0	96.8	
174 Bis(2-ethylhexyl) phthalate	149	13.422	13.419	0.003	98	111613	100.0	97.3	
177 3,3'-Dichlorobenzidine	252	13.451	13.460	-0.009	77	89743	200.0	198.6	
178 Benzo[a]anthracene	228	13.539	13.548	-0.009	98	170066	100.0	96.7	
179 Chrysene	228	13.598	13.607	-0.009	96	173414	100.0	99.0	
181 Di-n-octyl phthalate	149	14.445	14.448	-0.003	99	138521	100.0	93.1	
183 Benzo[b]fluoranthene	252	15.280	15.295	-0.015	97	150023	100.0	95.8	
184 Benzo[k]fluoranthene	252	15.327	15.336	-0.009	97	164324	100.0	101.6	
185 Benzo[a]pyrene	252	15.851	15.866	-0.015	83	128201	100.0	89.4	
190 Indeno[1,2,3-cd]pyrene	276	18.104	18.124	-0.020	94	148450	100.0	91.8	
189 Dibenz(a,h)anthracene	278	18.121	18.136	-0.015	90	121899	100.0	90.1	
191 Benzo[g,h,i]perylene	276	18.751	18.777	-0.026	92	124181	100.0	97.1	
S 246 Total Cresols	100				0			188.9	
S 193 Methyl Phenols,Total	100				0			188.9	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

SMLIST1 L3 W_00021 Amount Added: 0.10 Units: mL

Report Date: 26-Jul-2023 13:01:53 Chrom Revision: 2.3 19-Jul-2023 18:28:48

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\5.D

Injection Date: 26-Jul-2023 09:51:30 Instrument ID: A4AG2 Operator ID:

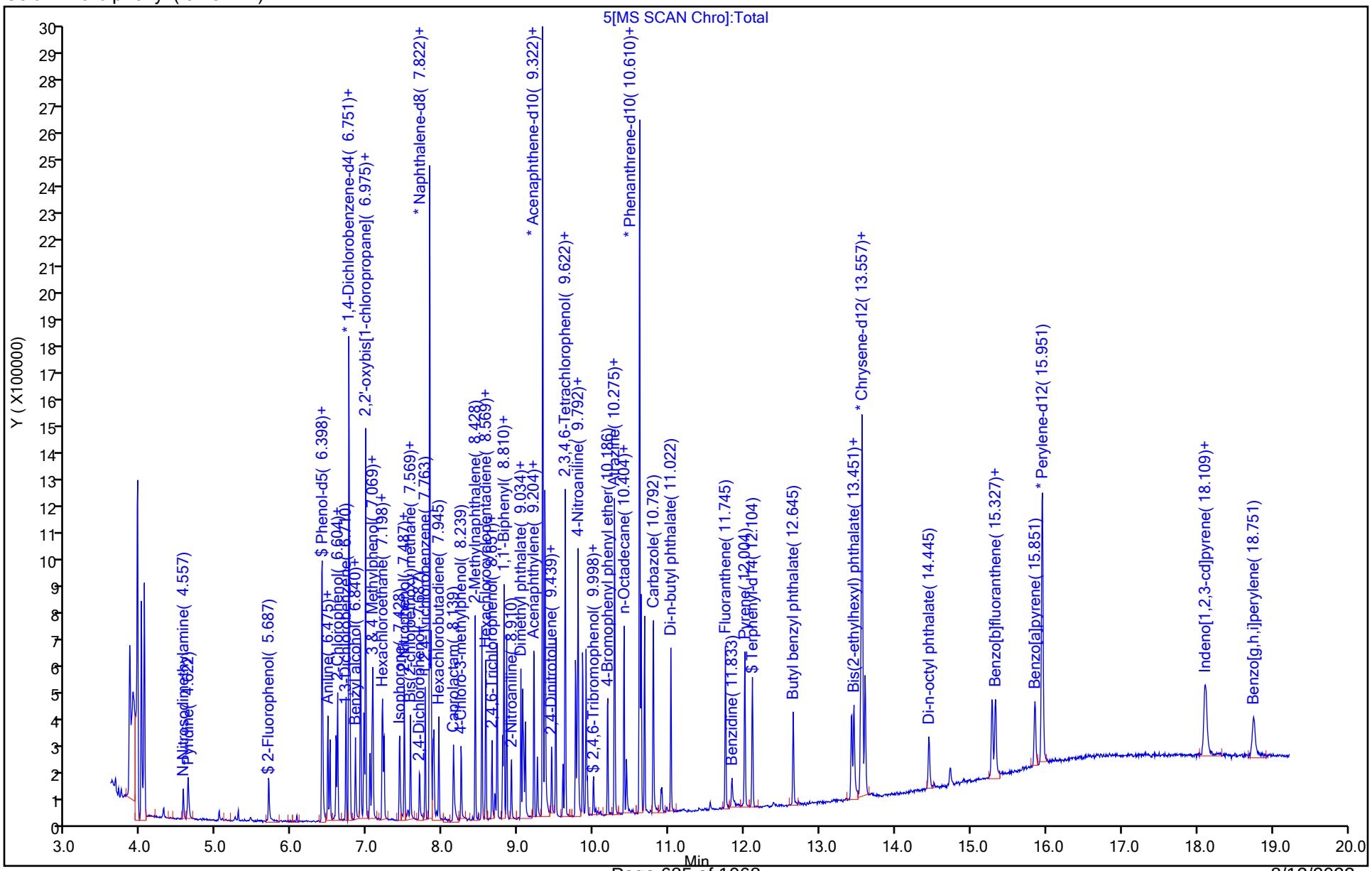
Lims ID: std3 l1lvi Worklist Smp#: 5

Client ID:

Injection Vol: 5.0 ul Dil. Factor: 1.0000 ALS Bottle#: 5

Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL

Column: 5% phenyl (0.18 mm)



8/12/2023
10:47 AM

Manual Integration/User Assign Peak Report

Eurofins Cleveland

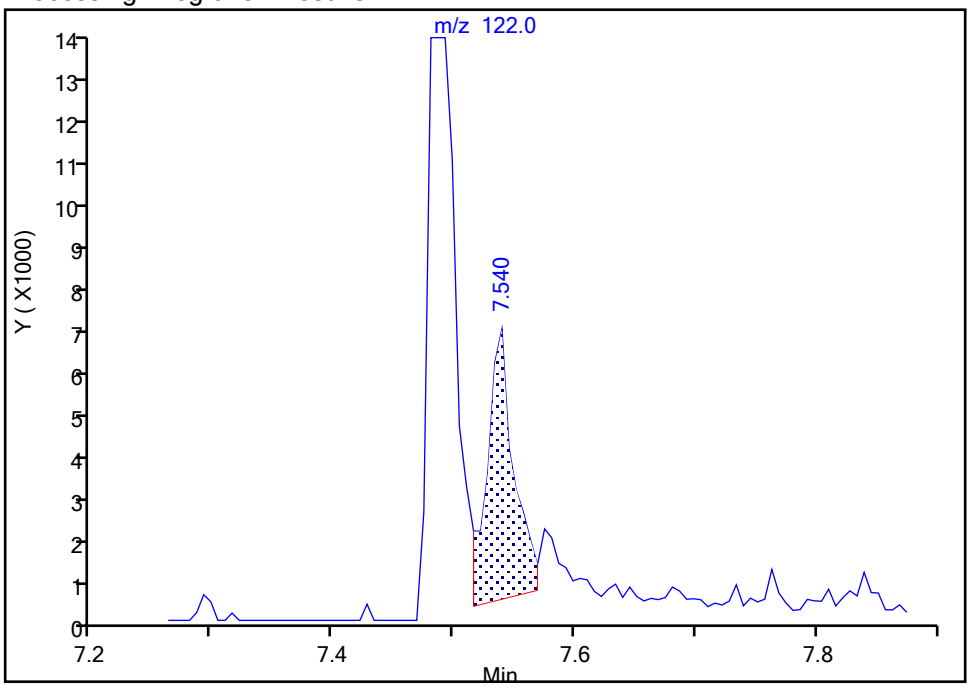
Data File: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\5.D
Injection Date: 26-Jul-2023 09:51:30 Instrument ID: A4AG2
Lims ID: std3 l1lvi
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL
Column: 5% phenyl (0.18 mm) Detector MS SCAN

70 Benzoic acid, CAS: 65-85-0

Signal: 1

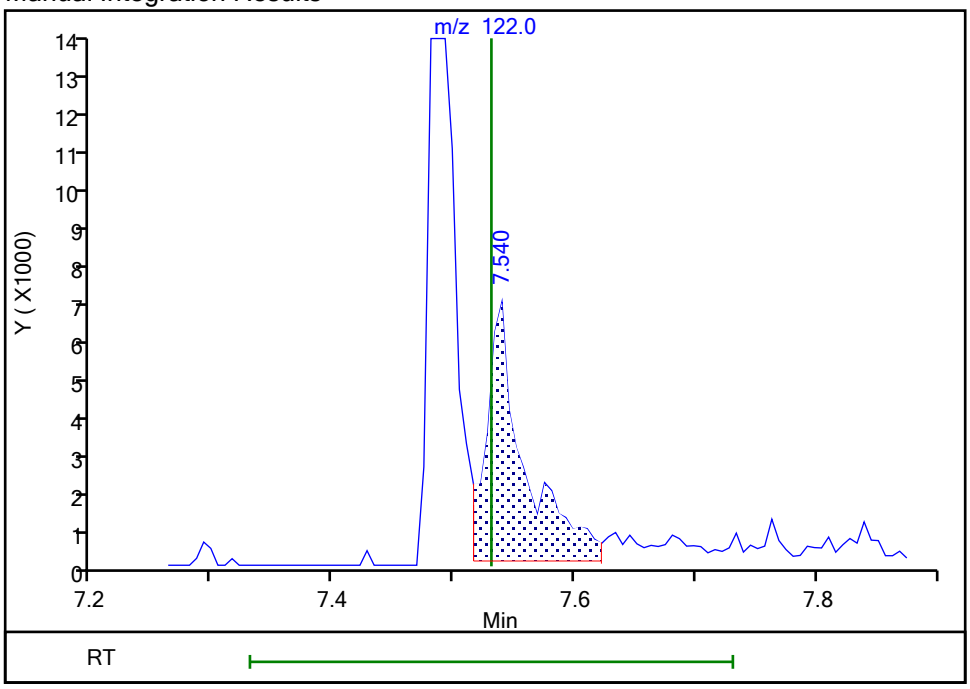
Processing Integration Results

RT: 7.54
Area: 9589
Amount: 48.778864
Amount Units: ng/ml



Manual Integration Results

RT: 7.54
Area: 14317
Amount: 260.8458
Amount Units: ng/ml



Reviewer: KDZ4, 26-Jul-2023 10:15:56 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Cleveland

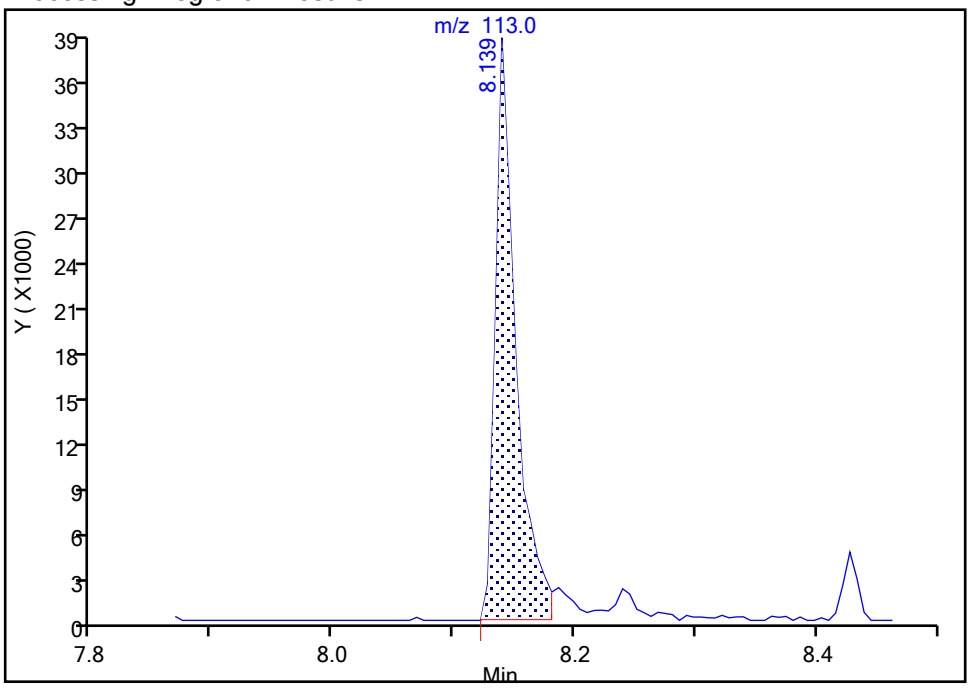
Data File: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\5.D
Injection Date: 26-Jul-2023 09:51:30 Instrument ID: A4AG2
Lims ID: std3 l1lvi
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL
Column: 5% phenyl (0.18 mm) Detector MS SCAN

83 Caprolactam, CAS: 105-60-2

Signal: 1

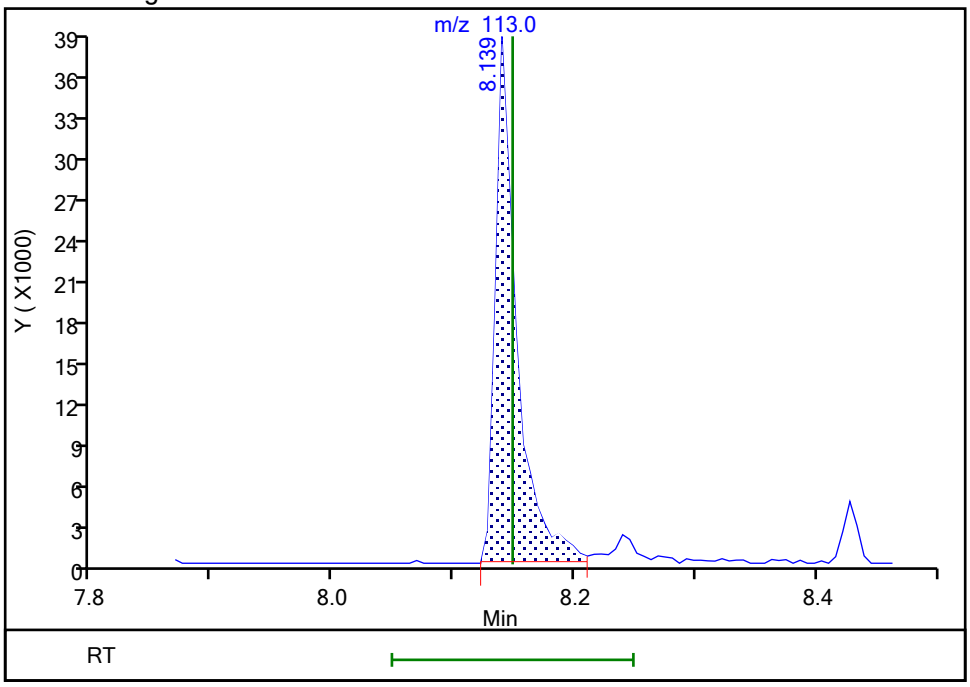
Processing Integration Results

RT: 8.14
Area: 44957
Amount: 166.1930
Amount Units: ng/ml



Manual Integration Results

RT: 8.14
Area: 47025
Amount: 178.8321
Amount Units: ng/ml



Reviewer: KDZ4, 26-Jul-2023 10:16:28 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Cleveland
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\6.D
Lims ID: std2 l1lvi
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 26-Jul-2023 10:15:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 240-0131814-006
Misc. Info.: STD2 L1LVI
Operator ID: Instrument ID: A4AG2
Sublist: chrom-LVI AG2 8270*sub20

Method: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\LVI AG2 8270.m
Limit Group: MSS 8270D ICAL
Last Update: 26-Jul-2023 12:53:52 Calib Date: 26-Jul-2023 11:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\10.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: CTX1679

First Level Reviewer: KDZ4 Date: 26-Jul-2023 10:46:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.757	6.748	0.009	95	237187	400.0	400.0	
* 2 Naphthalene-d8	136	7.828	7.819	0.009	99	978747	400.0	400.0	
* 3 Acenaphthene-d10	164	9.328	9.319	0.009	93	503572	400.0	400.0	
* 4 Phenanthrene-d10	188	10.616	10.613	0.003	97	764261	400.0	400.0	
* 5 Chrysene-d12	240	13.569	13.566	0.003	97	514307	400.0	400.0	
* 6 Perylene-d12	264	15.957	15.960	-0.003	94	502110	400.0	400.0	
$ 7 2-Fluorophenol	112	5.693	5.684	0.009	90	23634	50.0	50.7	
$ 8 Phenol-d5	99	6.398	6.390	0.008	0	37757	50.0	42.8	
$ 9 Nitrobenzene-d5	82	7.204	7.195	0.009	88	36261	50.0	42.5	
$ 10 2-Fluorobiphenyl (Surr)	172	8.722	8.713	0.009	99	84807	50.0	50.2	
$ 11 2,4,6-Tribromophenol	330	10.004	9.995	0.009	82	3624	50.0	55.4	
$ 12 Terphenyl-d14	244	12.116	12.113	0.003	96	68508	50.0	46.3	
26 1,4-Dioxane	88	4.299	4.296	0.003	92	7574	50.0	54.0	
27 N-Nitrosodimethylamine	74	4.563	4.549	0.014	95	22603	50.0	45.4	
28 Pyridine	79	4.628	4.607	0.021	97	38742	100.0	103.4	M
42 Benzaldehyde	77	6.398	6.390	0.008	94	58213	100.0	47.8	
43 Phenol	94	6.410	6.401	0.009	97	39495	50.0	43.0	
44 Aniline	93	6.475	6.466	0.009	98	49322	50.0	38.0	
45 Bis(2-chloroethyl)ether	93	6.504	6.490	0.014	98	44763	50.0	49.3	
47 2-Chlorophenol	128	6.587	6.578	0.009	96	34609	50.0	41.8	
244 n-Decane	57	6.610	6.584	0.026	89	38892	50.0	49.4	
48 1,3-Dichlorobenzene	146	6.716	6.707	0.009	98	46377	50.0	48.6	
49 1,4-Dichlorobenzene	146	6.769	6.760	0.009	95	48376	50.0	49.2	
50 Benzyl alcohol	108	6.845	6.831	0.014	93	18103	50.0	32.6	
51 1,2-Dichlorobenzene	146	6.904	6.896	0.008	97	46399	50.0	48.9	
52 2-Methylphenol	108	6.916	6.907	0.009	93	31670	50.0	40.1	
54 2,2'-oxybis[1-chloropropane]	45	6.957	6.937	0.020	94	53318	50.0	45.6	
53 Indene	115	6.975	6.966	0.009	88	160586	100.0	98.8	
55 3 & 4 Methylphenol	108	7.034	7.025	0.009	95	24424	50.0	49.8	
57 N-Nitrosodi-n-propylamine	70	7.063	7.043	0.020	86	24890	50.0	41.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
58 Acetophenone	105	7.075	7.060	0.015	98	56116	50.0	45.2	
61 Hexachloroethane	117	7.198	7.190	0.008	90	17166	50.0	48.1	
62 Nitrobenzene	77	7.222	7.213	0.009	85	34973	50.0	43.0	
64 Isophorone	82	7.434	7.407	0.027	99	66746	50.0	42.0	
65 2-Nitrophenol	139	7.492	7.478	0.014	74	12223	50.0	57.7	
66 2,4-Dimethylphenol	107	7.492	7.478	0.014	86	24089	50.0	35.5	
70 Benzoic acid	122		7.531				ND	ND	U
69 Bis(2-chloroethoxy)methane	93	7.575	7.548	0.027	97	46397	50.0	47.5	
72 2,4-Dichlorophenol	162	7.692	7.678	0.014	93	13147	50.0	53.7	
73 1,2,4-Trichlorobenzene	180	7.769	7.760	0.009	94	31939	50.0	47.2	
74 Naphthalene	128	7.845	7.837	0.008	95	131696	50.0	48.5	
75 4-Chloroaniline	127	7.875	7.860	0.015	97	29257	50.0	30.5	
76 2,6-Dichlorophenol	162	7.887	7.872	0.015	96	21577	50.0	52.5	
78 Hexachlorobutadiene	225	7.951	7.931	0.020	94	14950	50.0	49.3	
83 Caprolactam	113	8.145	8.148	-0.003	81	18553	100.0	80.5	
85 4-Chloro-3-methylphenol	107	8.245	8.231	0.014	96	18210	50.0	50.0	
86 2-Methylnaphthalene	142	8.434	8.419	0.015	93	84804	50.0	48.6	
87 1-Methylnaphthalene	142	8.522	8.507	0.015	93	79746	50.0	48.9	
89 Hexachlorocyclopentadiene	237	8.569	8.560	0.009	94	10988	50.0	38.4	
90 1,2,4,5-Tetrachlorobenzene	216	8.575	8.566	0.009	97	25660	50.0	45.3	
93 2,4,6-Trichlorophenol	196	8.657	8.642	0.015	92	11960	50.0	55.5	
94 2,4,5-Trichlorophenol	196	8.698	8.684	0.014	89	5342	50.0	60.3	M
99 1,1'-Biphenyl	154	8.816	8.807	0.009	95	100074	50.0	49.1	
100 2-Chloronaphthalene	162	8.851	8.842	0.009	97	73848	50.0	49.6	
101 2-Nitroaniline	65	8.910	8.901	0.009	82	14804	50.0	57.5	
104 Dimethyl phthalate	163	9.039	9.031	0.008	99	78684	50.0	47.0	
103 1,3-Dinitrobenzene	168	9.075	9.066	0.009	84	5853	50.0	60.4	
106 2,6-Dinitrotoluene	165	9.098	9.089	0.009	91	12050	50.0	34.0	
108 Acenaphthylene	152	9.210	9.207	0.003	98	116823	50.0	47.8	
109 3-Nitroaniline	138	9.257	9.254	0.003	95	10147	50.0	35.6	
110 2,4-Dinitrophenol	184		9.331				ND	ND	
111 Acenaphthene	153	9.357	9.348	0.009	95	82438	50.0	51.9	
112 4-Nitrophenol	109	9.363	9.354	0.009	63	10493	100.0	113.7	
113 2,4-Dinitrotoluene	165	9.445	9.442	0.003	89	12816	50.0	54.8	
115 Dibenzofuran	168	9.504	9.495	0.009	96	90335	50.0	44.8	
118 2,3,4,6-Tetrachlorophenol	232	9.598	9.589	0.009	79	4919	50.0	52.8	
248 Hexadecane	57	9.628	9.613	0.015	93	42881	NC	NC	
120 Diethyl phthalate	149	9.633	9.625	0.008	98	79129	50.0	47.3	
122 4-Chlorophenyl phenyl ether	204	9.763	9.760	0.003	97	31250	50.0	45.2	
125 4-Nitroaniline	138	9.786	9.778	0.008	87	12188	50.0	42.3	
124 Fluorene	166	9.798	9.789	0.009	93	78420	50.0	46.2	
127 4,6-Dinitro-2-methylphenol	198		9.795				ND	ND	U
129 Diphenylamine	169	9.857	9.854	0.003	95	54548	42.5	38.7	
128 N-Nitrosodiphenylamine	169	9.857	9.854	0.003	97	54548	50.0	45.5	
131 Azobenzene	77	9.904	9.895	0.009	98	77108	50.0	44.5	
138 4-Bromophenyl phenyl ether	248	10.192	10.184	0.008	74	15354	50.0	43.2	
141 Atrazine	200	10.281	10.278	0.002	90	32376	100.0	88.3	
140 Hexachlorobenzene	284	10.286	10.284	0.002	84	13274	50.0	40.7	
245 n-Octadecane	57	10.410	10.401	0.009	96	46865	50.0	43.2	
143 Pentachlorophenol	266		10.436				ND	ND	U
148 Phenanthrene	178	10.639	10.631	0.008	98	106325	50.0	47.1	
149 Anthracene	178	10.680	10.678	0.002	98	96923	50.0	44.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
150 Carbazole	167	10.798	10.795	0.003	96	91824	50.0	46.2	
154 Di-n-butyl phthalate	149	11.033	11.025	0.008	100	106049	50.0	40.1	
159 Fluoranthene	202	11.757	11.748	0.009	99	91618	50.0	45.8	
160 Benzidine	184	11.845	11.836	0.009	99	10794	100.0	124.2	
161 Pyrene	202	12.016	12.007	0.009	95	92821	50.0	45.8	
169 Butyl benzyl phthalate	149	12.657	12.648	0.009	96	33802	50.0	54.9	
174 Bis(2-ethylhexyl) phthalate	149	13.433	13.419	0.014	98	39879	50.0	54.5	
177 3,3'-Dichlorobenzidine	252	13.463	13.460	0.003	78	31302	100.0	104.1	
178 Benzo[a]anthracene	228	13.551	13.548	0.003	98	76941	50.0	44.9	
179 Chrysene	228	13.610	13.607	0.003	97	78422	50.0	45.9	
181 Di-n-octyl phthalate	149	14.457	14.448	0.009	99	48074	50.0	58.7	
183 Benzo[b]fluoranthene	252	15.292	15.295	-0.003	97	65676	50.0	42.3	
184 Benzo[k]fluoranthene	252	15.339	15.336	0.003	95	67843	50.0	42.3	
185 Benzo[a]pyrene	252	15.863	15.866	-0.004	83	55116	50.0	43.2	
190 Indeno[1,2,3-cd]pyrene	276	18.121	18.124	-0.003	90	60600	50.0	42.1	
189 Dibenz(a,h)anthracene	278	18.133	18.136	-0.003	94	53061	50.0	43.5	
191 Benzo[g,h,i]perylene	276	18.762	18.777	-0.015	90	51674	50.0	40.7	
S 246 Total Cresols	100				0			89.9	
S 193 Methyl Phenols,Total	100				0			89.9	

QC Flag Legend

Processing Flags
- NC - Not Calibrated
- ND - Not Detected or Marked ND

Review Flags
- M - Manually Integrated
- U - Marked Undetected

Reagents:

SMLIST1 L2 W_00021 Amount Added: 0.10 Units: mL

Report Date: 26-Jul-2023 12:53:53 Chrom Revision: 2.3 19-Jul-2023 18:28:48

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\6.D

Injection Date: 26-Jul-2023 10:15:30 Instrument ID: A4AG2 Operator ID:

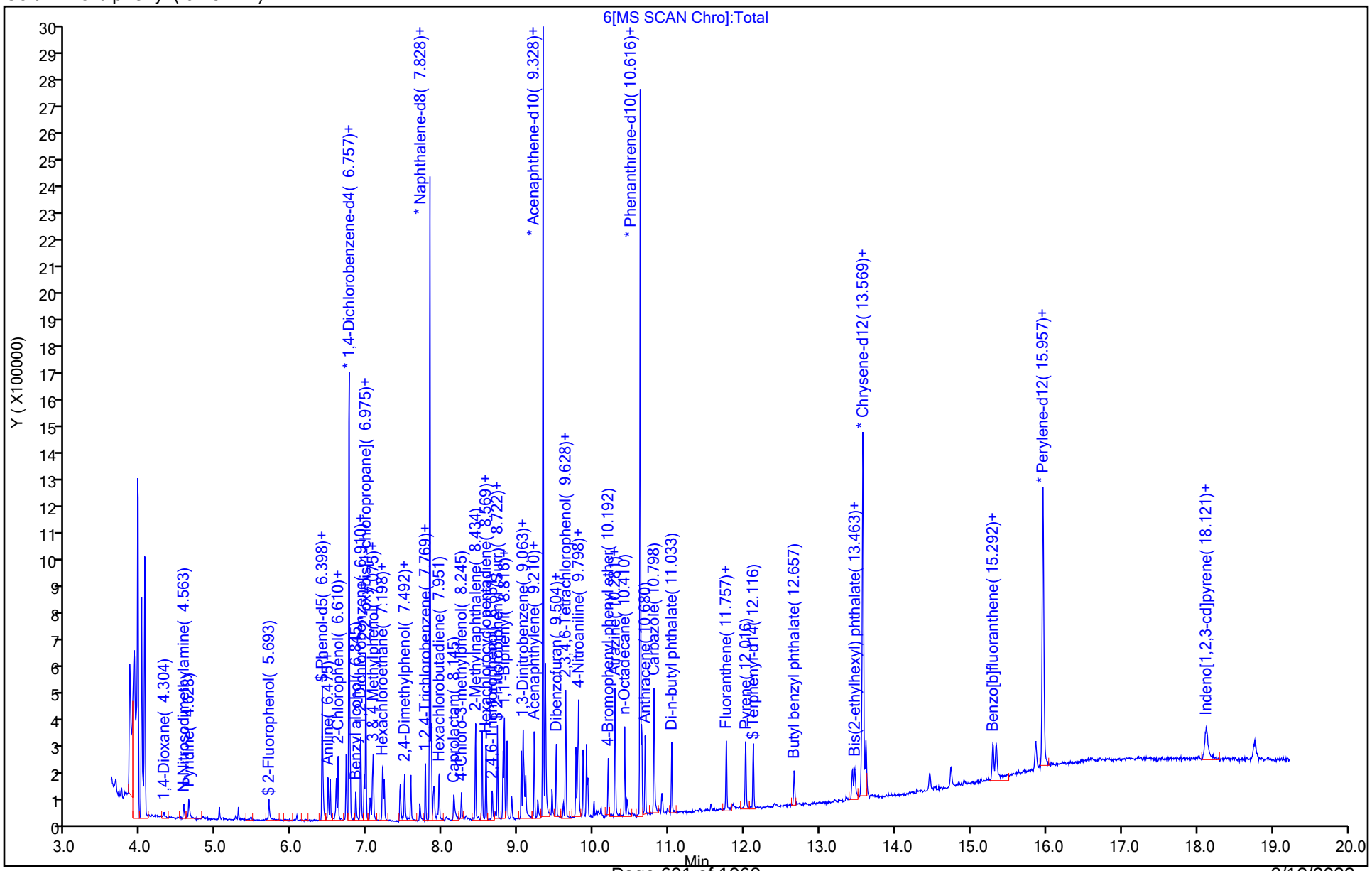
Lims ID: std2 l1lvi Worklist Smp#: 6

Client ID:

Injection Vol: 5.0 ul Dil. Factor: 1.0000 ALS Bottle#: 6

Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL

Column: 5% phenyl (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Cleveland

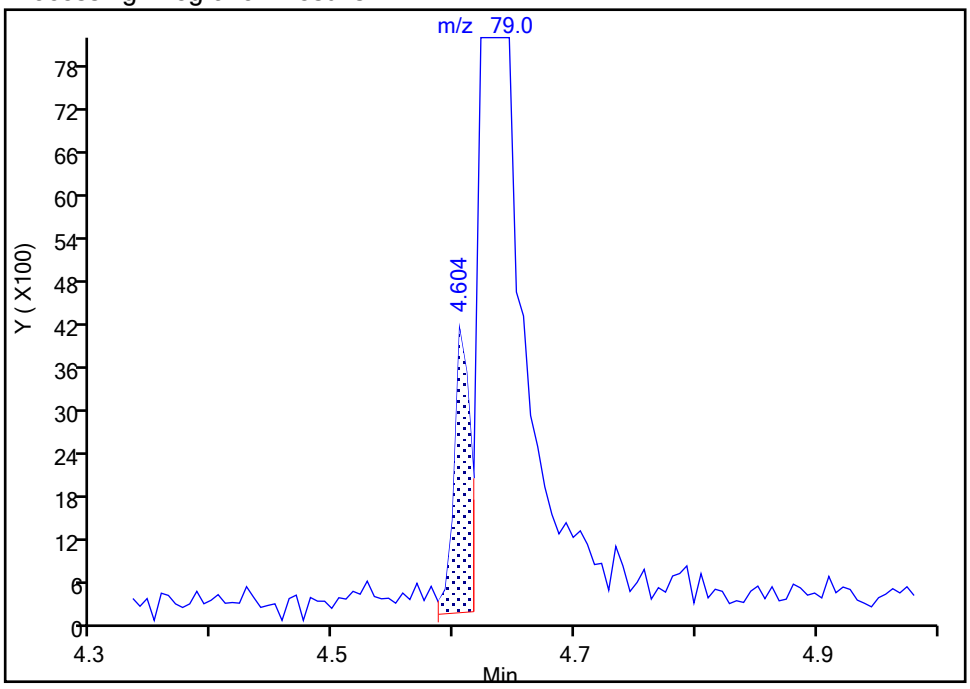
Data File: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\6.D
Injection Date: 26-Jul-2023 10:15:30 Instrument ID: A4AG2
Lims ID: std2 l1lvi
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL
Column: 5% phenyl (0.18 mm) Detector MS SCAN

28 Pyridine, CAS: 110-86-1

Signal: 1

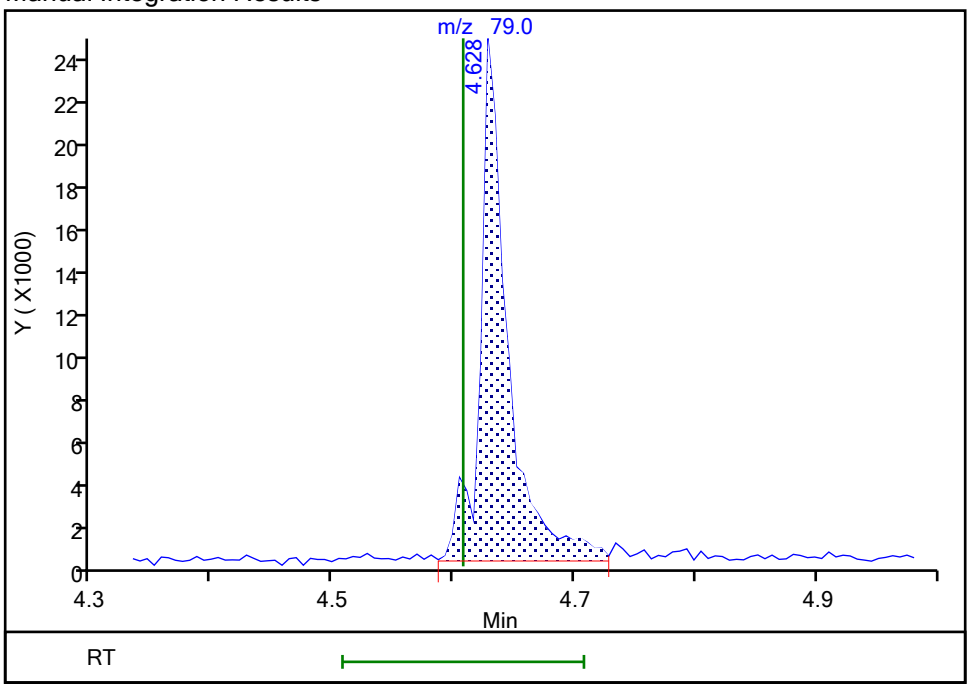
Processing Integration Results

RT: 4.60
Area: 3881
Amount: 12.437744
Amount Units: ng/ml



Manual Integration Results

RT: 4.63
Area: 38742
Amount: 103.4400
Amount Units: ng/ml



Reviewer: KDZ4, 26-Jul-2023 10:45:09 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Cleveland

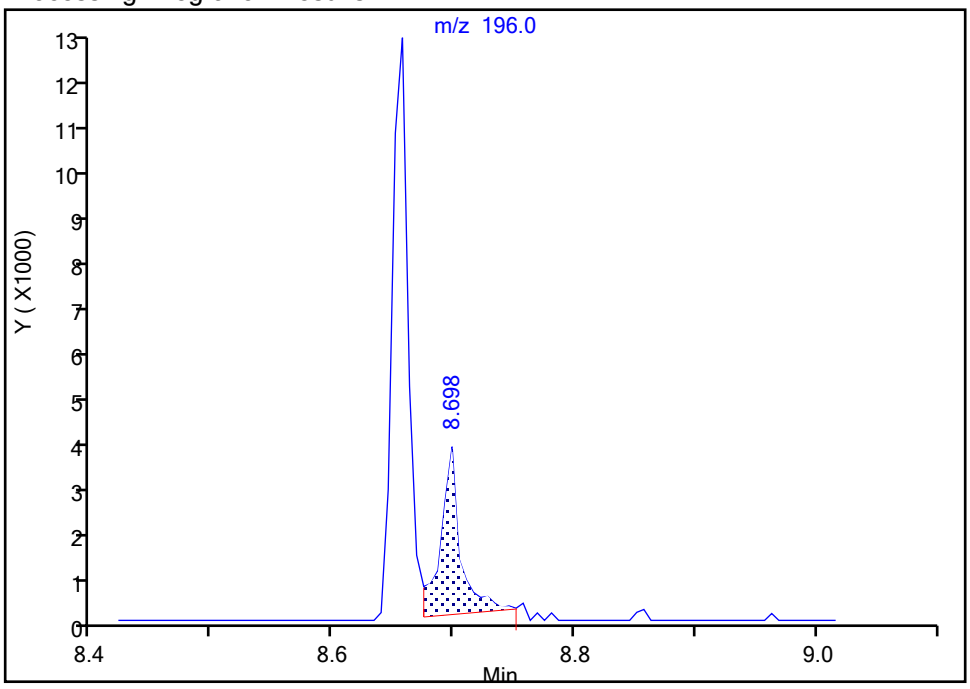
Data File:	\\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\6.D				
Injection Date:	26-Jul-2023 10:15:30	Instrument ID:	A4AG2		
Lims ID:	std2 l1lvi				
Client ID:					
Operator ID:		ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

94 2,4,5-Trichlorophenol, CAS: 95-95-4

Signal: 1

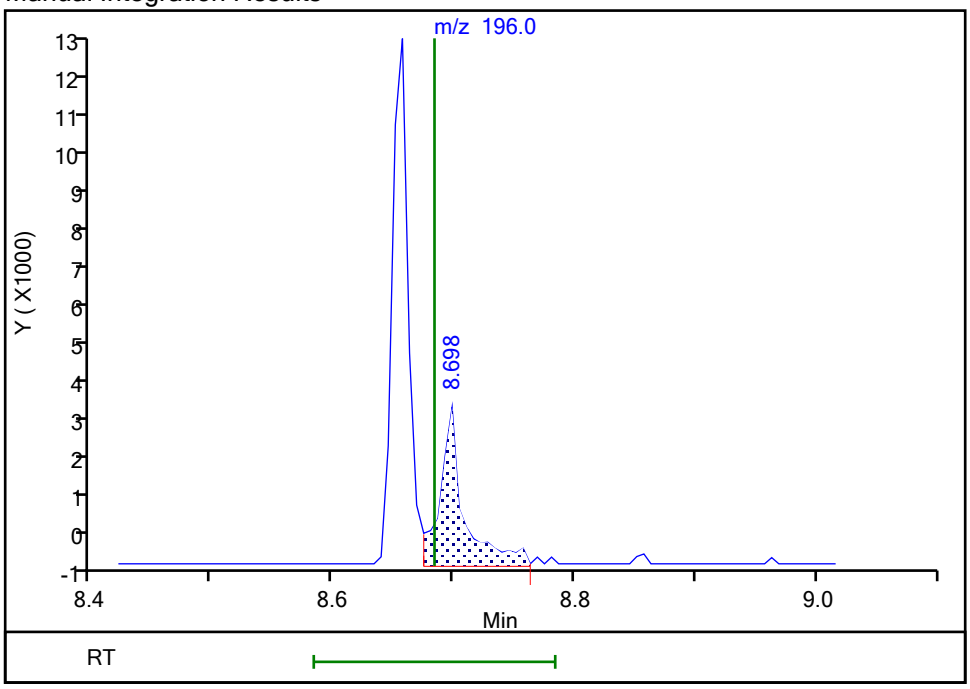
Processing Integration Results

RT: 8.70
Area: 4122
Amount: 59.736390
Amount Units: ng/ml



Manual Integration Results

RT: 8.70
Area: 5342
Amount: 60.317875
Amount Units: ng/ml



Reviewer: KDZ4, 26-Jul-2023 10:46:07 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

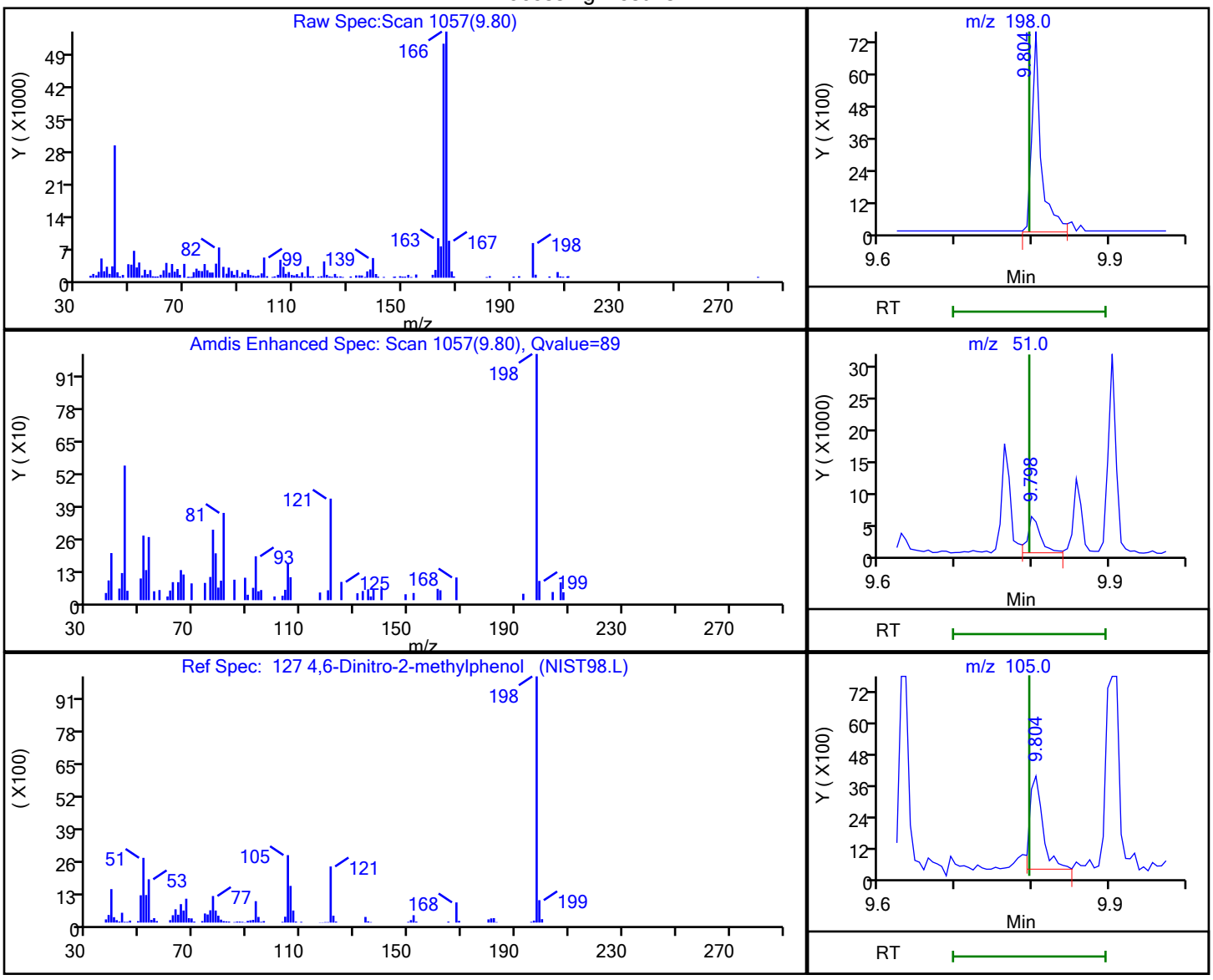
User Disabled Compound Report

Eurofins Cleveland

Data File:	\\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\6.D				
Injection Date:	26-Jul-2023 10:15:30	Instrument ID:	A4AG2		
Lims ID:	std2 l1lvi				
Client ID:					
Operator ID:		ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

127 4,6-Dinitro-2-methylphenol, CAS: 534-52-1

Processing Results



RT	Mass	Response	Amount
9.80	198.00	6220	258.9284
9.80	51.00	6767	
9.80	105.00	4245	

Reviewer: KDZ4, 26-Jul-2023 12:30:56 -04:00:00 (UTC)

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

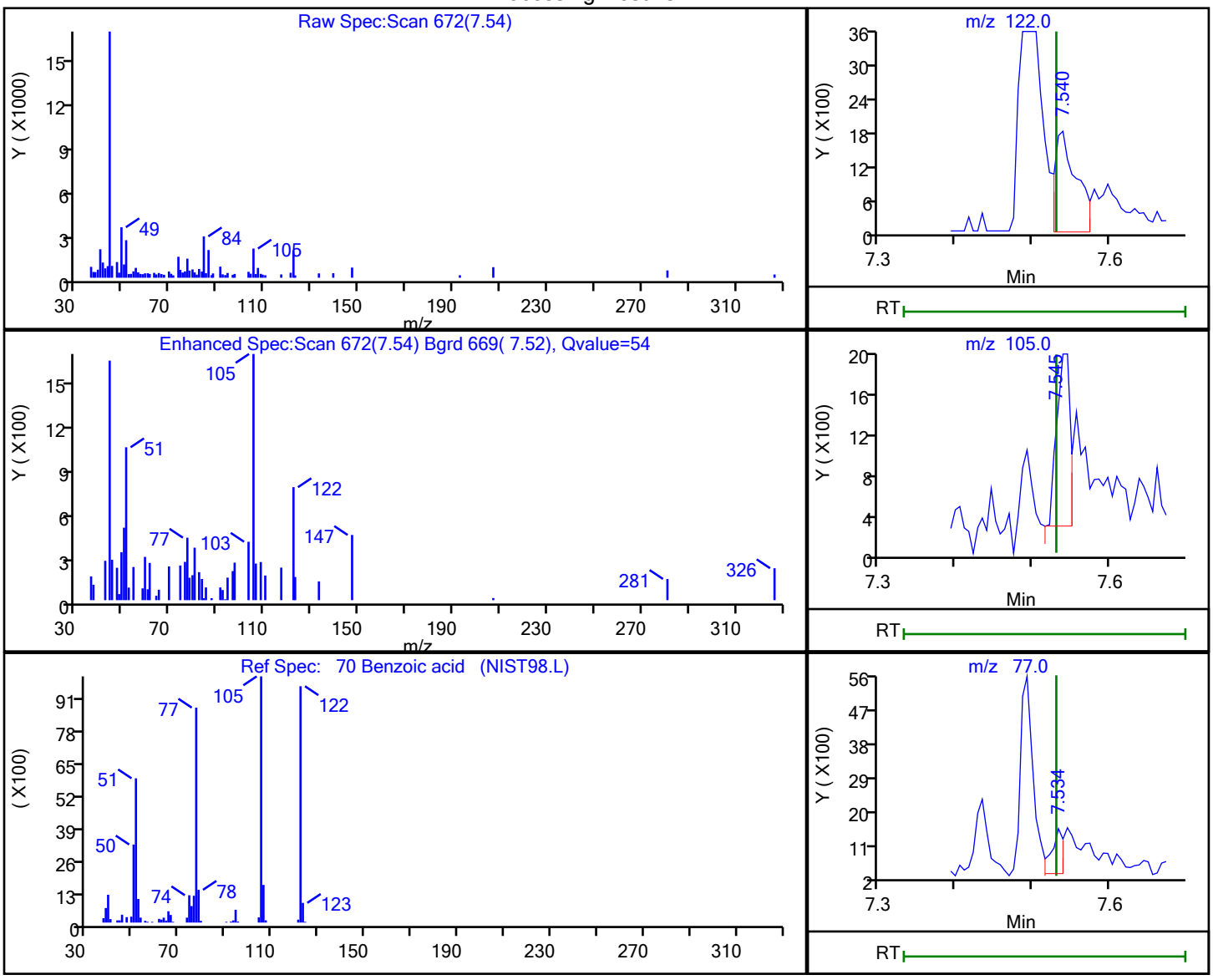
User Disabled Compound Report

Eurofins Cleveland

Data File:	\\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\6.D				
Injection Date:	26-Jul-2023 10:15:30	Instrument ID:	A4AG2		
Lims ID:	std2 l1lvi				
Client ID:					
Operator ID:		ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

70 Benzoic acid, CAS: 65-85-0

Processing Results



RT	Mass	Response	Amount
7.54	122.00	3538	105.8303
7.55	105.00	2061	
7.53	77.00	1347	

Reviewer: KDZ4, 26-Jul-2023 10:45:29 -04:00:00 (UTC)

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

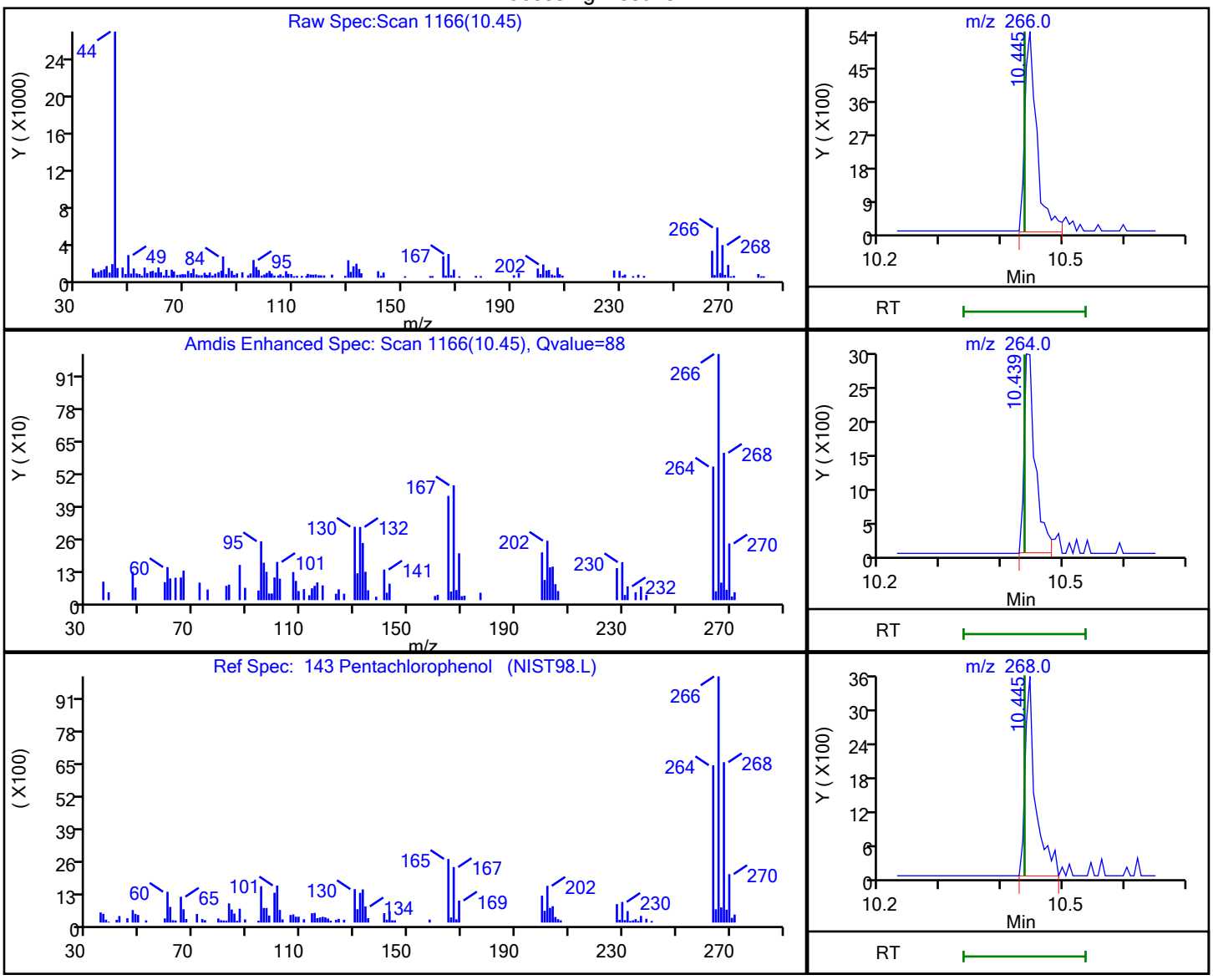
User Disabled Compound Report

Eurofins Cleveland

Data File:	\\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\6.D				
Injection Date:	26-Jul-2023 10:15:30	Instrument ID:	A4AG2		
Lims ID:	std2 l1lvi				
Client ID:					
Operator ID:		ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

143 Pentachlorophenol, CAS: 87-86-5

Processing Results



RT	Mass	Response	Amount
10.45	266.00	7390	144.9804
10.44	264.00	3771	
10.45	268.00	4190	

Reviewer: KDZ4, 26-Jul-2023 12:33:00 -04:00:00 (UTC)

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

Eurofins Cleveland
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\7.D
Lims ID: std1 l1lvi
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 26-Jul-2023 10:38:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 240-0131814-007
Misc. Info.: STD1 L1LVI
Operator ID: Instrument ID: A4AG2
Sublist: chrom-LVI AG2 8270*sub20

Method: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\LVI AG2 8270.m
Limit Group: MSS 8270D ICAL
Last Update: 26-Jul-2023 12:54:40 Calib Date: 26-Jul-2023 11:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\10.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: CTX1679

First Level Reviewer: KDZ4 Date: 26-Jul-2023 11:03:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.757	6.748	0.009	96	223419	400.0	400.0	
* 2 Naphthalene-d8	136	7.828	7.819	0.009	99	1011726	400.0	400.0	
* 3 Acenaphthene-d10	164	9.328	9.319	0.009	94	516523	400.0	400.0	
* 4 Phenanthrene-d10	188	10.616	10.613	0.003	97	792520	400.0	400.0	
* 5 Chrysene-d12	240	13.563	13.566	-0.003	97	519092	400.0	400.0	
* 6 Perylene-d12	264	15.957	15.960	-0.003	94	495834	400.0	400.0	
$ 7 2-Fluorophenol	112	5.693	5.684	0.009	88	3693	10.0	8.40	
$ 8 Phenol-d5	99	6.404	6.390	0.014	0	7786	10.0	9.36	
$ 9 Nitrobenzene-d5	82	7.210	7.195	0.015	89	7108	10.0	8.06	
$ 10 2-Fluorobiphenyl (Surr)	172	8.722	8.713	0.009	98	16132	10.0	9.31	
$ 11 2,4,6-Tribromophenol	330		9.995				ND	ND	
$ 12 Terphenyl-d14	244	12.110	12.113	-0.003	95	14363	10.0	9.62	
28 Pyridine	79	4.651	4.607	0.044	87	5443	20.0	15.4	M
42 Benzaldehyde	77		6.390				ND	ND	U
74 Naphthalene	128	7.845	7.837	0.008	96	28120	10.0	10.0	
83 Caprolactam	113	8.151	8.148	0.003	77	2848	20.0	25.4	M
86 2-Methylnaphthalene	142	8.434	8.419	0.015	93	17146	10.0	9.51	
87 1-Methylnaphthalene	142	8.522	8.507	0.015	94	16090	10.0	9.55	
99 1,1'-Biphenyl	154	8.816	8.807	0.009	92	21391	10.0	10.2	
100 2-Chloronaphthalene	162	8.851	8.842	0.009	97	14460	10.0	9.48	
108 Acenaphthylene	152	9.210	9.207	0.003	98	21476	10.0	8.56	
111 Acenaphthene	153	9.357	9.348	0.009	94	16443	10.0	10.1	
115 Dibenzofuran	168	9.504	9.495	0.009	96	16229	10.0	7.85	
124 Fluorene	166	9.798	9.789	0.009	94	15913	10.0	9.15	
141 Atrazine	200	10.280	10.278	0.002	81	5681	20.0	14.9	
140 Hexachlorobenzene	284	10.286	10.284	0.002	74	3059	10.0	13.6	
148 Phenanthrene	178	10.633	10.631	0.002	97	23260	10.0	9.94	
149 Anthracene	178	10.680	10.678	0.002	97	18606	10.0	8.22	
159 Fluoranthene	202	11.757	11.748	0.009	98	16525	10.0	7.97	
161 Pyrene	202	12.010	12.007	0.003	95	17681	10.0	8.65	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
178 Benzo[a]anthracene	228	13.551	13.548	0.003	97	15111	10.0	8.73	
179 Chrysene	228	13.604	13.607	-0.003	94	16764	10.0	9.72	
183 Benzo[b]fluoranthene	252	15.286	15.295	-0.009	96	12179	10.0	7.94	
184 Benzo[k]fluoranthene	252	15.333	15.336	-0.003	97	12621	10.0	7.97	
185 Benzo[a]pyrene	252	15.857	15.866	-0.009	85	8748	10.0	13.5	
190 Indeno[1,2,3-cd]pyrene	276	18.109	18.124	-0.015	74	10203	10.0	13.3	
189 Dibenz(a,h)anthracene	278	18.127	18.136	-0.009	87	8972	10.0	13.3	
191 Benzo[g,h,i]perylene	276	18.751	18.777	-0.026	92	10210	10.0	8.15	M

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

SMLIST1 L1+ W_00015 Amount Added: 0.10 Units: mL

Report Date: 26-Jul-2023 12:54:42 Chrom Revision: 2.3 19-Jul-2023 18:28:48

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\7.D

Injection Date: 26-Jul-2023 10:38:30 Instrument ID: A4AG2 Operator ID:

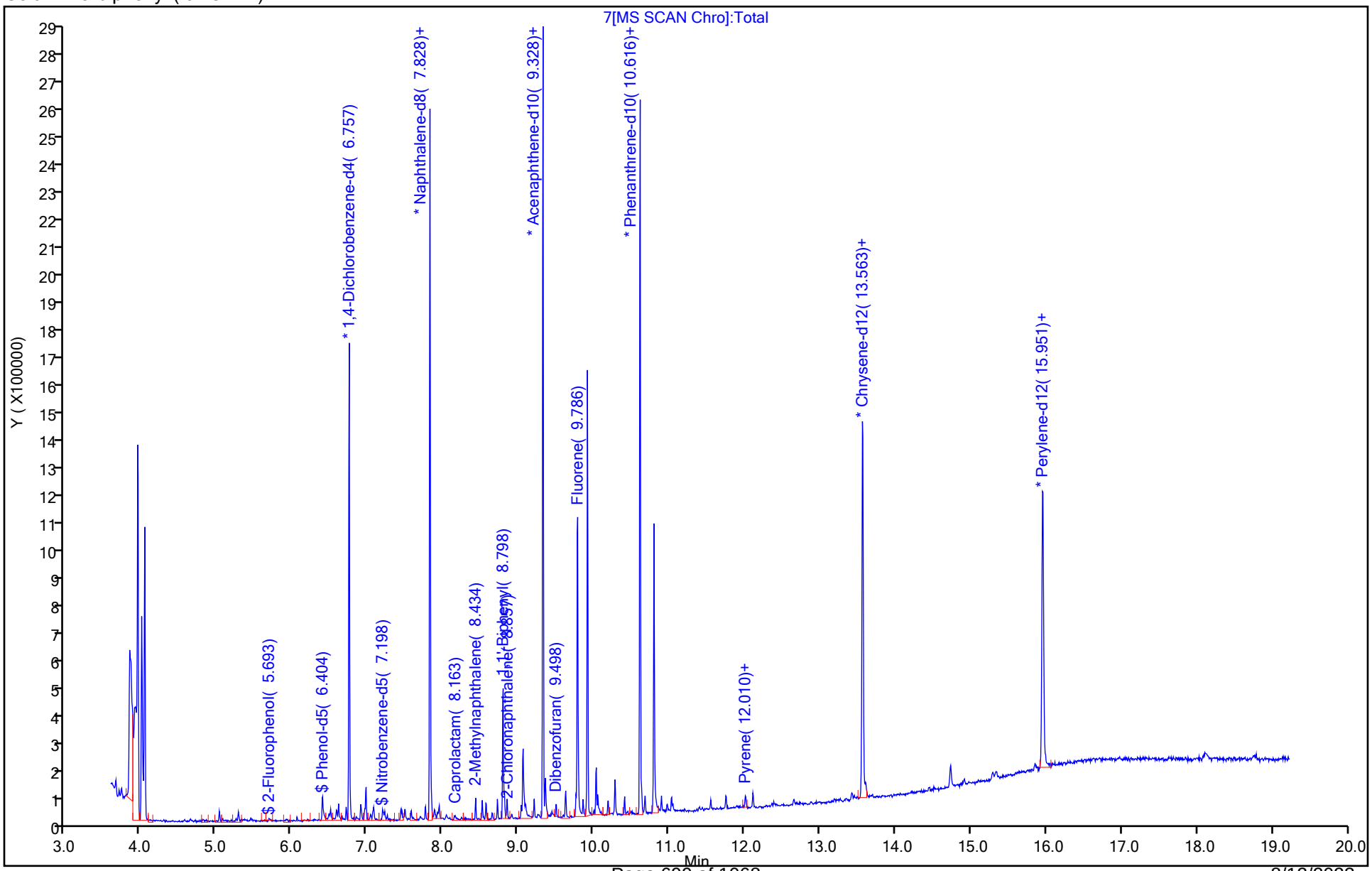
Lims ID: std1 l1lvi Worklist Smp#: 7

Client ID:

Injection Vol: 5.0 ul Dil. Factor: 1.0000 ALS Bottle#: 7

Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL

Column: 5% phenyl (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Cleveland

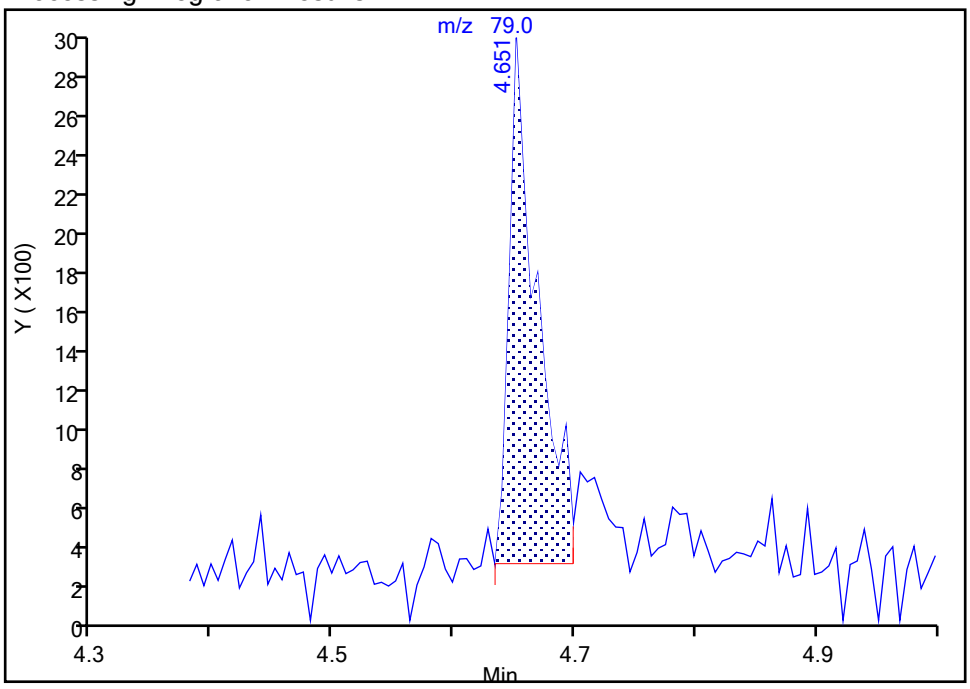
Data File: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\7.D
Injection Date: 26-Jul-2023 10:38:30 Instrument ID: A4AG2
Lims ID: std1 l1lvi
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL
Column: 5% phenyl (0.18 mm) Detector MS SCAN

28 Pyridine, CAS: 110-86-1

Signal: 1

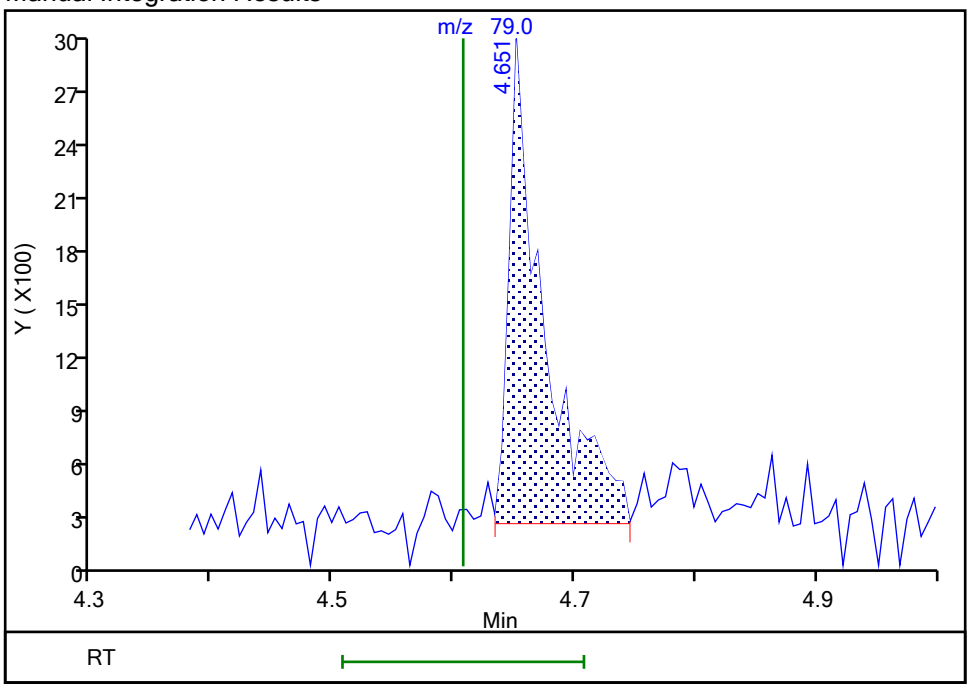
Processing Integration Results

RT: 4.65
Area: 4332
Amount: 12.901936
Amount Units: ng/ml



Manual Integration Results

RT: 4.65
Area: 5443
Amount: 15.428217
Amount Units: ng/ml



Reviewer: KDZ4, 26-Jul-2023 11:01:45 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Cleveland

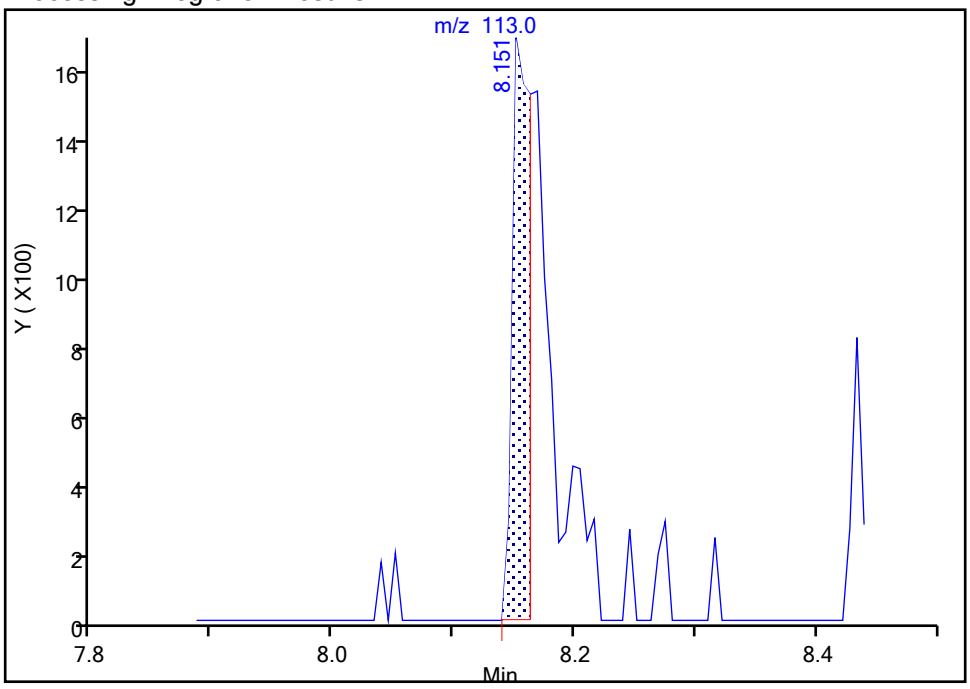
Data File: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\7.D
Injection Date: 26-Jul-2023 10:38:30 Instrument ID: A4AG2
Lims ID: std1 l1lvi
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL
Column: 5% phenyl (0.18 mm) Detector MS SCAN

83 Caprolactam, CAS: 105-60-2

Signal: 1

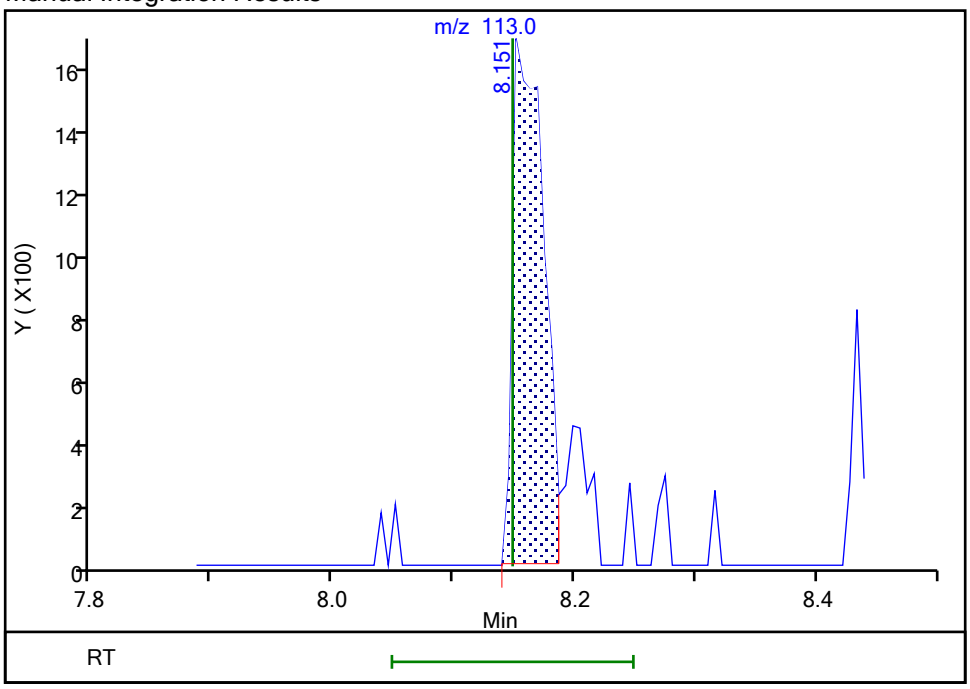
Processing Integration Results

RT: 8.15
Area: 1699
Amount: 25.503073
Amount Units: ng/ml



Manual Integration Results

RT: 8.15
Area: 2848
Amount: 25.365083
Amount Units: ng/ml



Reviewer: KDZ4, 26-Jul-2023 11:02:09 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Cleveland

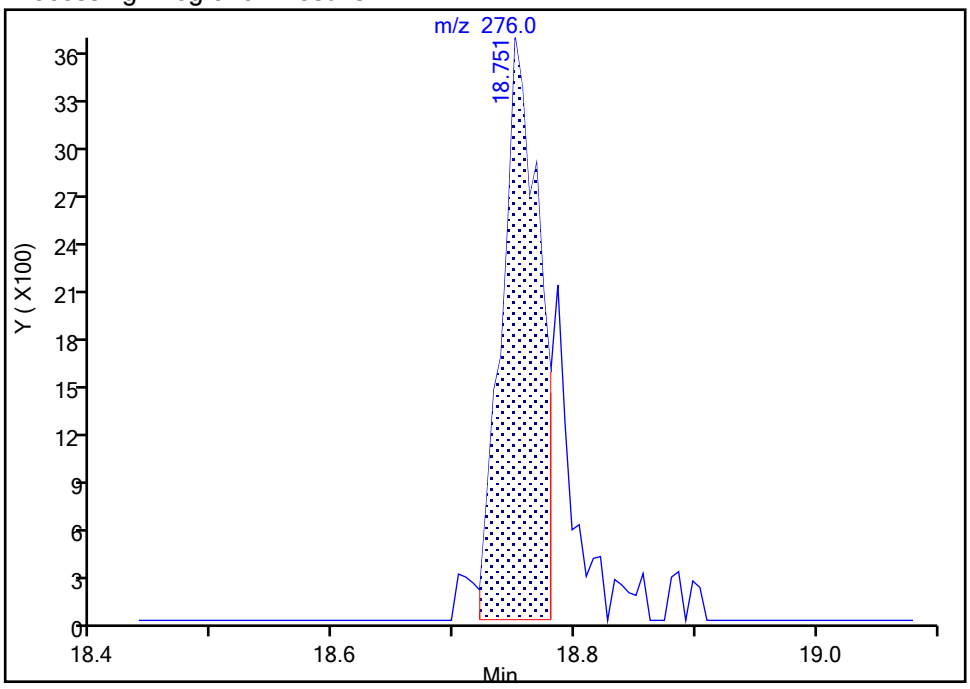
Data File: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\7.D
Injection Date: 26-Jul-2023 10:38:30 Instrument ID: A4AG2
Lims ID: std1 l1lvi
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL
Column: 5% phenyl (0.18 mm) Detector MS SCAN

191 Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

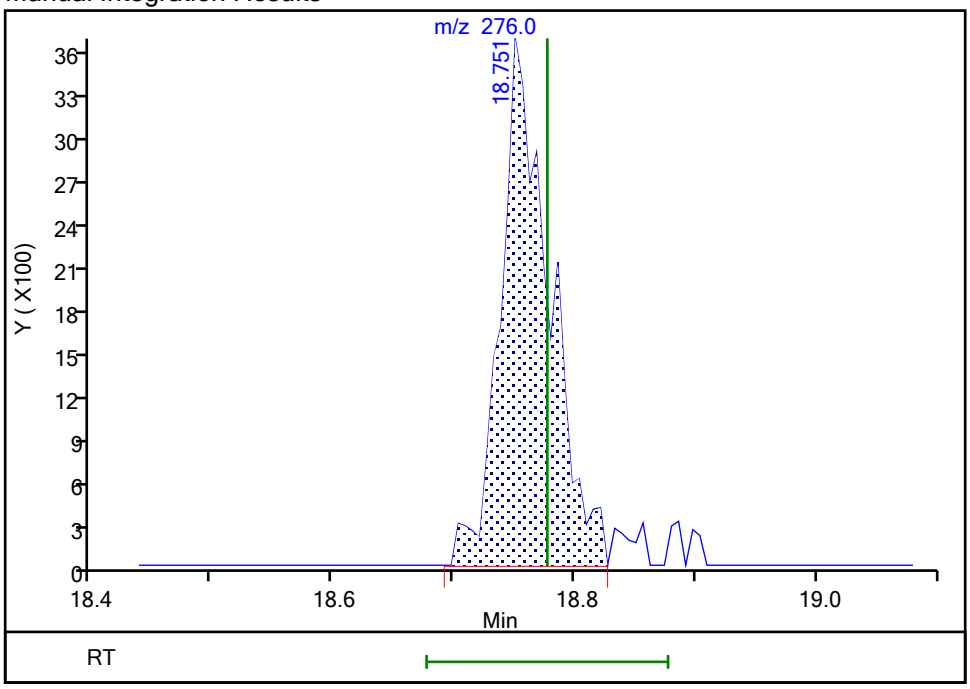
Processing Integration Results

RT: 18.75
Area: 7969
Amount: 6.832522
Amount Units: ng/ml



Manual Integration Results

RT: 18.75
Area: 10210
Amount: 8.148080
Amount Units: ng/ml



Reviewer: KDZ4, 26-Jul-2023 11:02:39 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

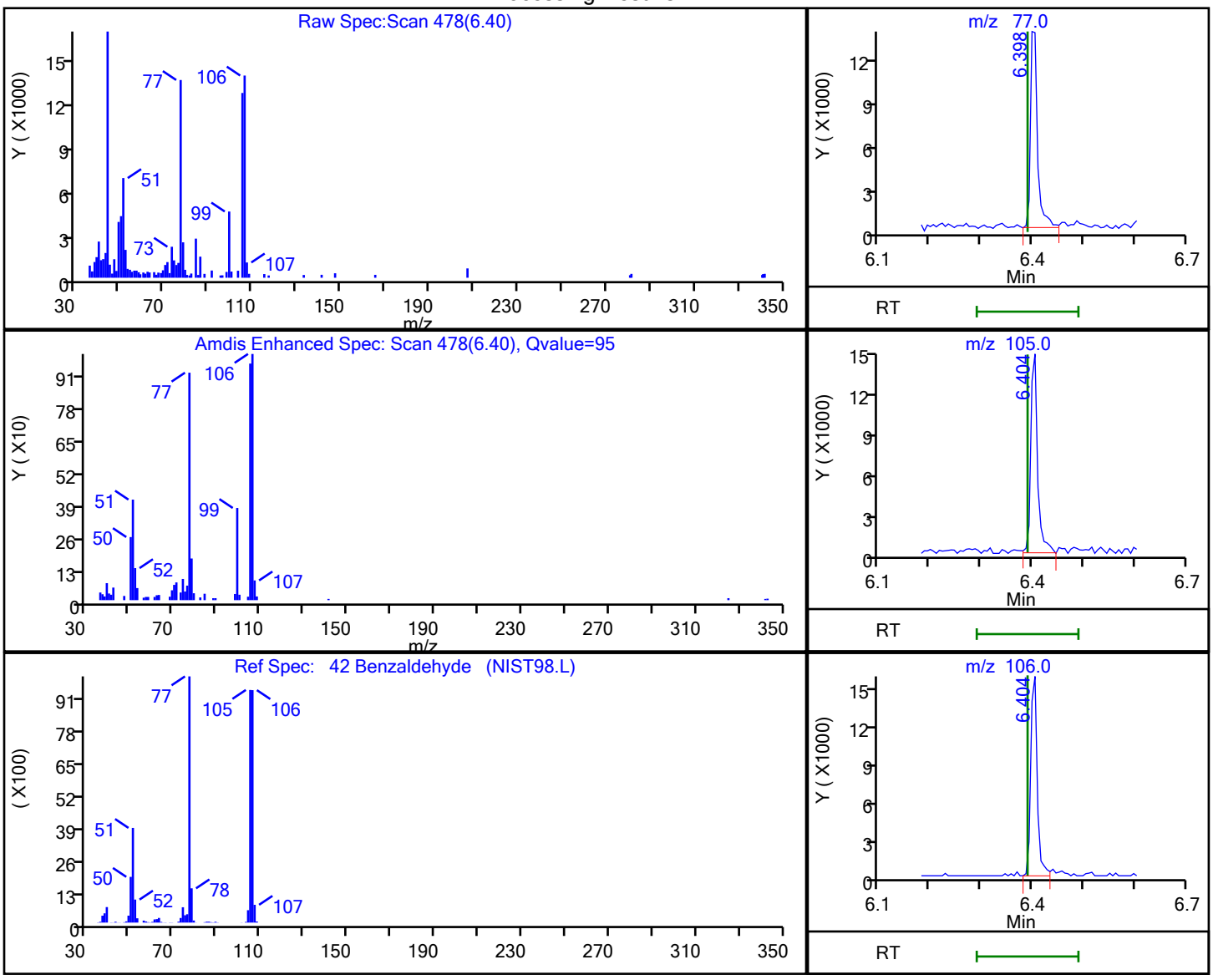
User Disabled Compound Report

Eurofins Cleveland

Data File:	\\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\7.D				
Injection Date:	26-Jul-2023 10:38:30	Instrument ID:	A4AG2		
Lims ID:	std1 l1lvi				
Client ID:					
Operator ID:		ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

42 Benzaldehyde, CAS: 100-52-7

Processing Results



RT	Mass	Response	Amount
6.40	77.00	13075	19.981953
6.40	105.00	13831	
6.40	106.00	14207	

Reviewer: KDZ4, 26-Jul-2023 12:21:13 -04:00:00 (UTC)

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

Eurofins Cleveland
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\8.D
Lims ID: std7 l1lvi
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 26-Jul-2023 11:01:30 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 240-0131814-008
Misc. Info.: STD7 L1LVI
Operator ID: Instrument ID: A4AG2
Sublist: chrom-LVI AG2 8270*sub20

Method: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\LVI AG2 8270.m
Limit Group: MSS 8270D ICAL
Last Update: 26-Jul-2023 12:59:09 Calib Date: 26-Jul-2023 11:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\10.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: CTX1679

First Level Reviewer: KDZ4 Date: 26-Jul-2023 11:41:51

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.745	6.748	-0.003	96	237596	400.0	400.0	
* 2 Naphthalene-d8	136	7.816	7.819	-0.003	99	1012591	400.0	400.0	
* 3 Acenaphthene-d10	164	9.316	9.319	-0.003	93	528833	400.0	400.0	
* 4 Phenanthrene-d10	188	10.604	10.613	-0.009	97	815789	400.0	400.0	
* 5 Chrysene-d12	240	13.563	13.566	-0.003	97	587882	400.0	400.0	
* 6 Perylene-d12	264	15.951	15.960	-0.009	94	562437	400.0	400.0	
$ 7 2-Fluorophenol	112	5.687	5.684	0.003	91	680224	1500.0	1455.6	
$ 8 Phenol-d5	99	6.393	6.390	0.003	0	1364382	1500.0	1543.2	
$ 9 Nitrobenzene-d5	82	7.193	7.195	-0.002	86	1393123	1500.0	1578.8	
$ 10 2-Fluorobiphenyl (Surr)	172	8.704	8.713	-0.009	100	2659030	1500.0	1498.2	
$ 11 2,4,6-Tribromophenol	330	9.992	9.995	-0.003	88	245739	1500.0	1431.6	
$ 12 Terphenyl-d14	244	12.104	12.113	-0.009	96	2516240	1500.0	1488.4	
26 1,4-Dioxane	88	4.299	4.296	0.003	93	197701	1500.0	1406.0	
27 N-Nitrosodimethylamine	74	4.552	4.549	0.003	95	821232	1500.0	1647.5	
28 Pyridine	79	4.610	4.607	0.003	99	1274342	3000.0	3396.6	
42 Benzaldehyde	77	6.387	6.390	-0.003	94	1092265	3000.0	3021.9	
43 Phenol	94	6.404	6.401	0.003	96	1399273	1500.0	1521.3	
44 Aniline	93	6.469	6.466	0.003	99	1987525	1500.0	1528.1	
45 Bis(2-chloroethyl)ether	93	6.493	6.490	0.003	98	1344331	1500.0	1478.3	
47 2-Chlorophenol	128	6.575	6.578	-0.003	95	1287100	1500.0	1552.0	
244 n-Decane	57	6.575	6.584	-0.009	90	1113162	1500.0	1410.8	
48 1,3-Dichlorobenzene	146	6.704	6.707	-0.003	98	1411464	1500.0	1475.4	
49 1,4-Dichlorobenzene	146	6.763	6.760	0.003	96	1468032	1500.0	1490.3	
50 Benzyl alcohol	108	6.834	6.831	0.003	96	880680	1500.0	1584.7	
51 1,2-Dichlorobenzene	146	6.893	6.896	-0.003	98	1411376	1500.0	1485.3	
52 2-Methylphenol	108	6.904	6.907	-0.003	93	1227965	1500.0	1550.7	
54 2,2'-oxybis[1-chloropropane]	45	6.934	6.937	-0.003	94	1624499	1500.0	1388.3	
53 Indene	115	6.969	6.966	0.003	90	4741221	3000.0	2912.5	
55 3 & 4 Methylphenol	108	7.022	7.025	-0.003	95	1253737	1500.0	1464.4	
57 N-Nitrosodi-n-propylamine	70	7.045	7.043	0.002	82	896780	1500.0	1486.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
58 Acetophenone	105	7.057	7.060	-0.003	97	1823508	1500.0	1464.6	
61 Hexachloroethane	117	7.187	7.190	-0.003	94	532777	1500.0	1491.2	
62 Nitrobenzene	77	7.210	7.213	-0.003	85	1272617	1500.0	1511.6	
64 Isophorone	82	7.404	7.407	-0.003	99	2496114	1500.0	1517.6	
65 2-Nitrophenol	139	7.475	7.478	-0.003	71	650845	1500.0	1435.4	
66 2,4-Dimethylphenol	107	7.475	7.478	-0.003	88	1155181	1500.0	1643.3	
70 Benzoic acid	122	7.534	7.531	0.003	87	1089064	3000.0	2823.9	M
69 Bis(2-chloroethoxy)methane	93	7.545	7.548	-0.003	99	1482605	1500.0	1466.1	
72 2,4-Dichlorophenol	162	7.675	7.678	-0.003	93	991809	1500.0	1476.8	
73 1,2,4-Trichlorobenzene	180	7.757	7.760	-0.003	94	1050659	1500.0	1501.1	
74 Naphthalene	128	7.834	7.837	-0.003	96	4189876	1500.0	1491.4	
75 4-Chloroaniline	127	7.857	7.860	-0.003	97	1708975	1500.0	1719.5	M
76 2,6-Dichlorophenol	162	7.869	7.872	-0.003	99	1020228	1500.0	1474.6	
78 Hexachlorobutadiene	225	7.922	7.931	-0.009	97	469888	1500.0	1496.9	
83 Caprolactam	113	8.145	8.148	-0.003	84	882445	3000.0	2992.9	M
85 4-Chloro-3-methylphenol	107	8.228	8.231	-0.003	95	1130338	1500.0	1471.6	
86 2-Methylnaphthalene	142	8.416	8.419	-0.003	93	2719173	1500.0	1506.2	
87 1-Methylnaphthalene	142	8.504	8.507	-0.003	93	2517671	1500.0	1493.3	
89 Hexachlorocyclopentadiene	237	8.551	8.560	-0.009	97	487331	1500.0	1623.6	
90 1,2,4,5-Tetrachlorobenzene	216	8.563	8.566	-0.003	98	915246	1500.0	1537.3	
93 2,4,6-Trichlorophenol	196	8.639	8.642	-0.003	92	627504	1500.0	1443.4	
94 2,4,5-Trichlorophenol	196	8.675	8.684	-0.009	93	666072	1500.0	1460.6	
99 1,1'-Biphenyl	154	8.798	8.807	-0.009	95	3162343	1500.0	1478.6	
100 2-Chloronaphthalene	162	8.834	8.842	-0.008	97	2328862	1500.0	1490.6	
101 2-Nitroaniline	65	8.898	8.901	-0.003	90	633292	1500.0	1409.4	
104 Dimethyl phthalate	163	9.022	9.031	-0.009	100	2664333	1500.0	1514.8	
103 1,3-Dinitrobenzene	168	9.063	9.066	-0.003	87	392869	1500.0	1441.2	
106 2,6-Dinitrotoluene	165	9.087	9.089	-0.002	95	611590	1500.0	1641.7	
108 Acenaphthylene	152	9.198	9.207	-0.009	98	3988756	1500.0	1553.2	
109 3-Nitroaniline	138	9.251	9.254	-0.003	98	437777	1500.0	1464.2	
110 2,4-Dinitrophenol	184	9.328	9.331	-0.003	86	475101	3000.0	2873.7	
111 Acenaphthene	153	9.345	9.348	-0.003	94	2436469	1500.0	1459.8	
112 4-Nitrophenol	109	9.351	9.354	-0.003	81	597842	3000.0	2983.0	
113 2,4-Dinitrotoluene	165	9.439	9.442	-0.003	95	763030	1500.0	1454.0	
115 Dibenzofuran	168	9.492	9.495	-0.003	96	3243067	1500.0	1531.8	
118 2,3,4,6-Tetrachlorophenol	232	9.586	9.589	-0.003	77	428874	1500.0	1421.8	
248 Hexadecane	57	9.604	9.613	-0.009	94	1615743	NC	NC	
120 Diethyl phthalate	149	9.616	9.625	-0.009	98	2612618	1500.0	1485.8	
122 4-Chlorophenyl phenyl ether	204	9.751	9.760	-0.009	97	1095929	1500.0	1509.5	
125 4-Nitroaniline	138	9.775	9.778	-0.003	92	494066	1500.0	1439.4	
124 Fluorene	166	9.786	9.789	-0.003	94	2733247	1500.0	1534.3	
127 4,6-Dinitro-2-methylphenol	198	9.792	9.795	-0.003	84	743998	3000.0	2898.4	
129 Diphenylamine	169	9.845	9.854	-0.009	95	1920845	1275.0	1276.9	
128 N-Nitrosodiphenylamine	169	9.845	9.854	-0.009	98	1920845	1500.0	1502.2	
131 Azobenzene	77	9.892	9.895	-0.003	98	2794407	1500.0	1511.6	
138 4-Bromophenyl phenyl ether	248	10.181	10.184	-0.003	70	584646	1500.0	1539.6	
141 Atrazine	200	10.275	10.278	-0.003	93	1293741	3000.0	3305.2	
140 Hexachlorobenzene	284	10.275	10.284	-0.009	76	607062	1500.0	1497.9	
245 n-Octadecane	57	10.392	10.401	-0.009	97	1814614	1500.0	1567.3	
143 Pentachlorophenol	266	10.433	10.436	-0.003	90	759715	3000.0	2936.1	
148 Phenanthrene	178	10.628	10.631	-0.003	98	3630140	1500.0	1507.8	
149 Anthracene	178	10.675	10.678	-0.003	98	3702877	1500.0	1588.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
150 Carbazole	167	10.786	10.795	-0.009	96	3254059	1500.0	1533.8	
154 Di-n-butyl phthalate	149	11.022	11.025	-0.003	100	4552340	1500.0	1613.1	
159 Fluoranthene	202	11.745	11.748	-0.003	99	3463088	1500.0	1623.4	
160 Benzidine	184	11.833	11.836	-0.003	100	2530094	3000.0	2975.2	
161 Pyrene	202	12.004	12.007	-0.003	96	3549345	1500.0	1533.2	
169 Butyl benzyl phthalate	149	12.645	12.648	-0.003	97	1874784	1500.0	1454.1	
174 Bis(2-ethylhexyl) phthalate	149	13.416	13.419	-0.003	98	2601017	1500.0	1442.4	
177 3,3'-Dichlorobenzidine	252	13.451	13.460	-0.009	76	1946539	3000.0	2915.4	
178 Benzo[a]anthracene	228	13.545	13.548	-0.003	99	3087794	1500.0	1575.7	
179 Chrysene	228	13.604	13.607	-0.003	97	2945787	1500.0	1508.0	
181 Di-n-octyl phthalate	149	14.445	14.448	-0.003	99	4055297	1500.0	1433.4	
183 Benzo[b]fluoranthene	252	15.286	15.295	-0.009	97	2805927	1500.0	1612.9	
184 Benzo[k]fluoranthene	252	15.333	15.336	-0.003	96	2901710	1500.0	1614.4	
185 Benzo[a]pyrene	252	15.857	15.866	-0.009	83	2563093	1500.0	1474.9	
190 Indeno[1,2,3-cd]pyrene	276	18.115	18.124	-0.009	94	2903404	1500.0	1494.8	
189 Dibenz(a,h)anthracene	278	18.127	18.136	-0.009	90	2386574	1500.0	1469.6	
191 Benzo[g,h,i]perylene	276	18.768	18.777	-0.009	91	2285447	1500.0	1607.9	
S 246 Total Cresols	100				0			3015.1	
S 193 Methyl Phenols,Total	100				0			3015.1	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

SMLIST1 L7 W_00021 Amount Added: 0.10 Units: mL

Report Date: 26-Jul-2023 12:59:10 Chrom Revision: 2.3 19-Jul-2023 18:28:48

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\8.D

Injection Date: 26-Jul-2023 11:01:30 Instrument ID: A4AG2 Operator ID:

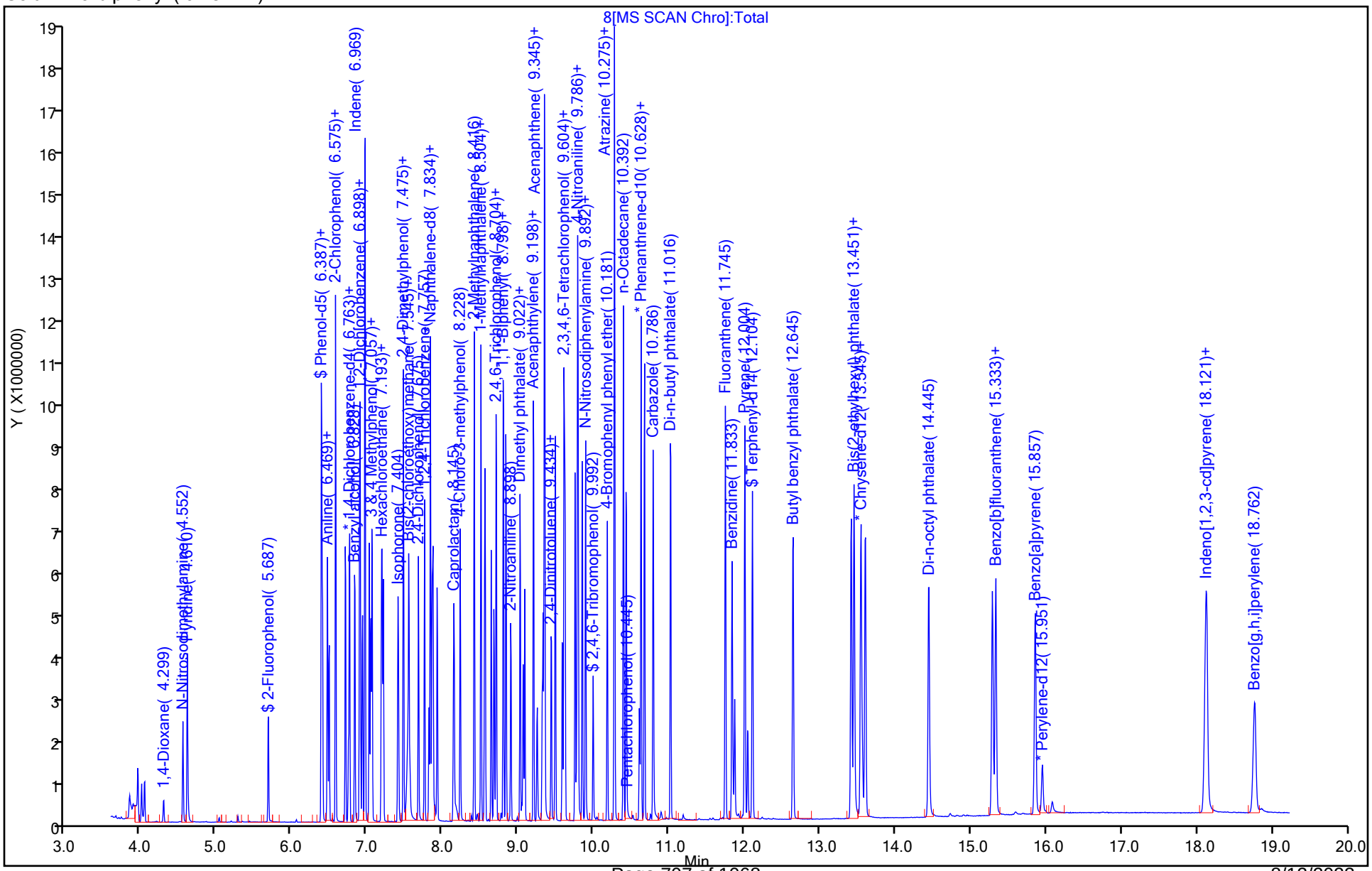
Lims ID: std7 l1lvi Worklist Smp#: 8

Client ID:

Injection Vol: 5.0 ul Dil. Factor: 1.0000 ALS Bottle#: 8

Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL

Column: 5% phenyl (0.18 mm)



8/12/2023
10:47 AM

Manual Integration/User Assign Peak Report

Eurofins Cleveland

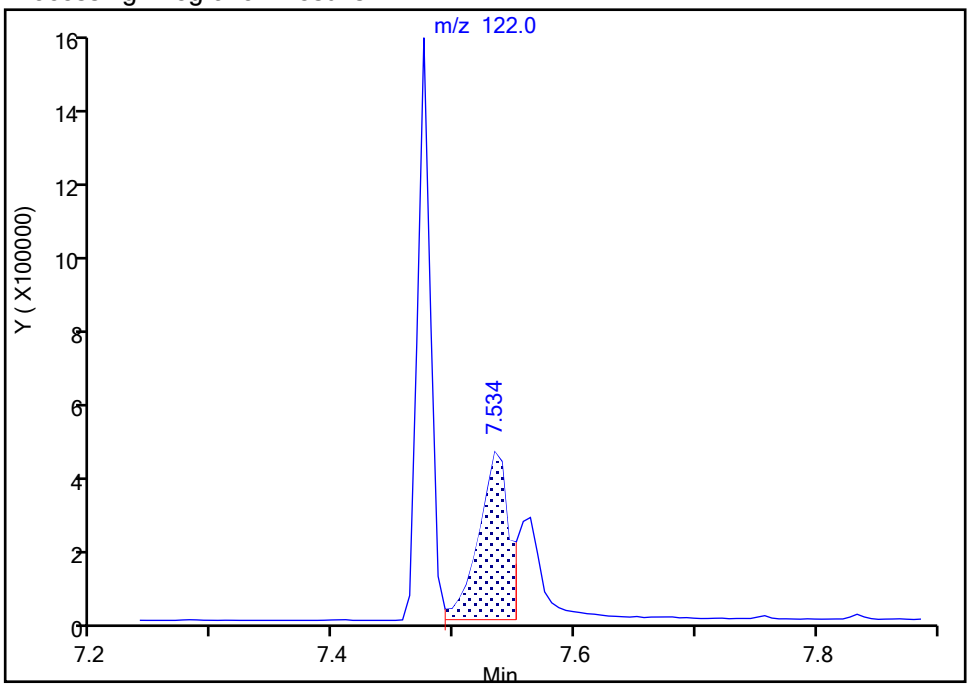
Data File: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\8.D
Injection Date: 26-Jul-2023 11:01:30 Instrument ID: A4AG2
Lims ID: std7 l1lvi
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL
Column: 5% phenyl (0.18 mm) Detector MS SCAN

70 Benzoic acid, CAS: 65-85-0

Signal: 1

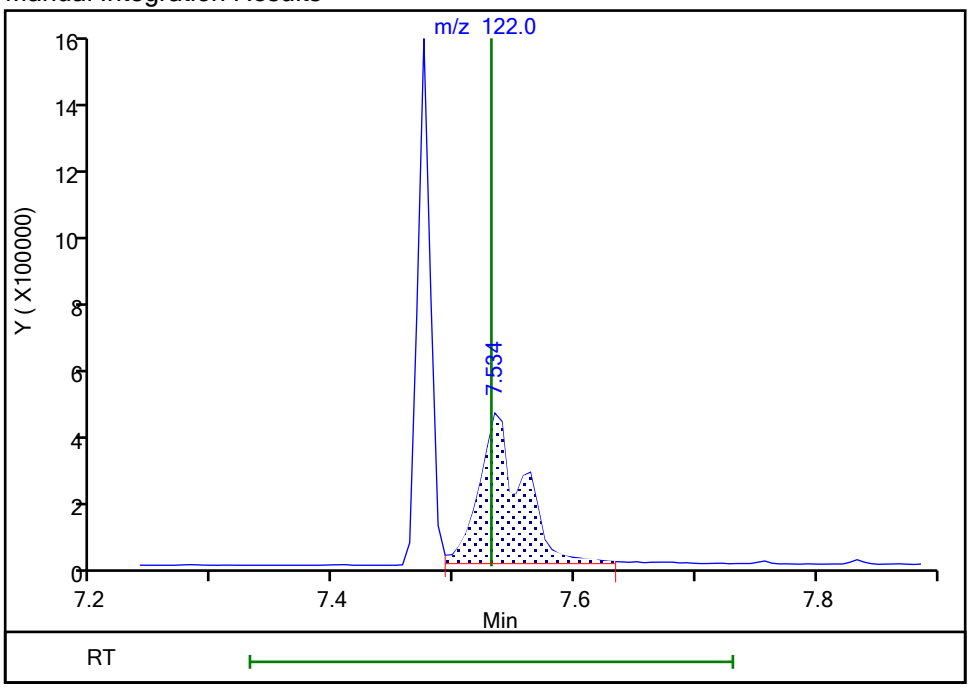
Processing Integration Results

RT: 7.53
Area: 788657
Amount: 3599.5943
Amount Units: ng/ml



Manual Integration Results

RT: 7.53
Area: 1089064
Amount: 2823.8742
Amount Units: ng/ml



Reviewer: KDZ4, 26-Jul-2023 11:39:57 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Cleveland

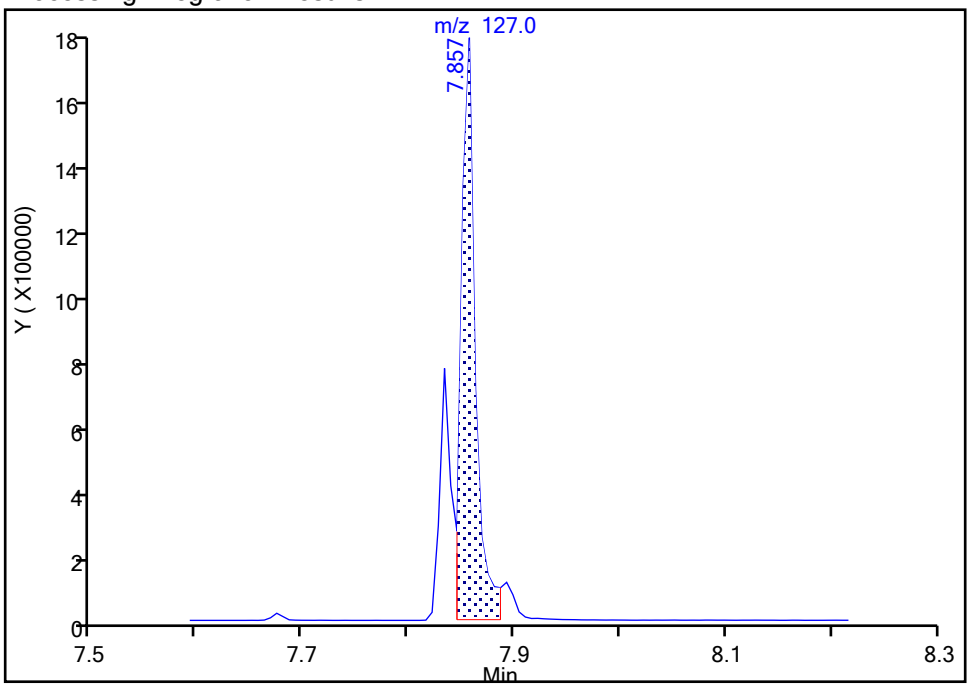
Data File:	\\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\8.D				
Injection Date:	26-Jul-2023 11:01:30	Instrument ID:	A4AG2		
Lims ID:	std7 l1lvi				
Client ID:					
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

75 4-Chloroaniline, CAS: 106-47-8

Signal: 1

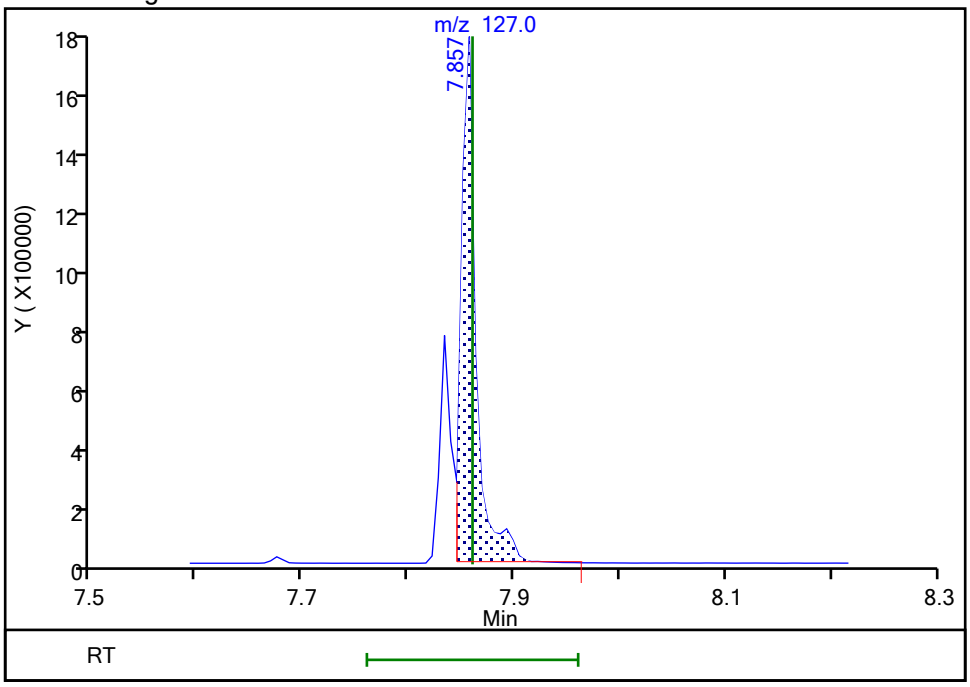
Processing Integration Results

RT: 7.86
Area: 1623113
Amount: 1475.9158
Amount Units: ng/ml



Manual Integration Results

RT: 7.86
Area: 1708975
Amount: 1719.5311
Amount Units: ng/ml



Reviewer: KDZ4, 26-Jul-2023 11:40:34 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Cleveland

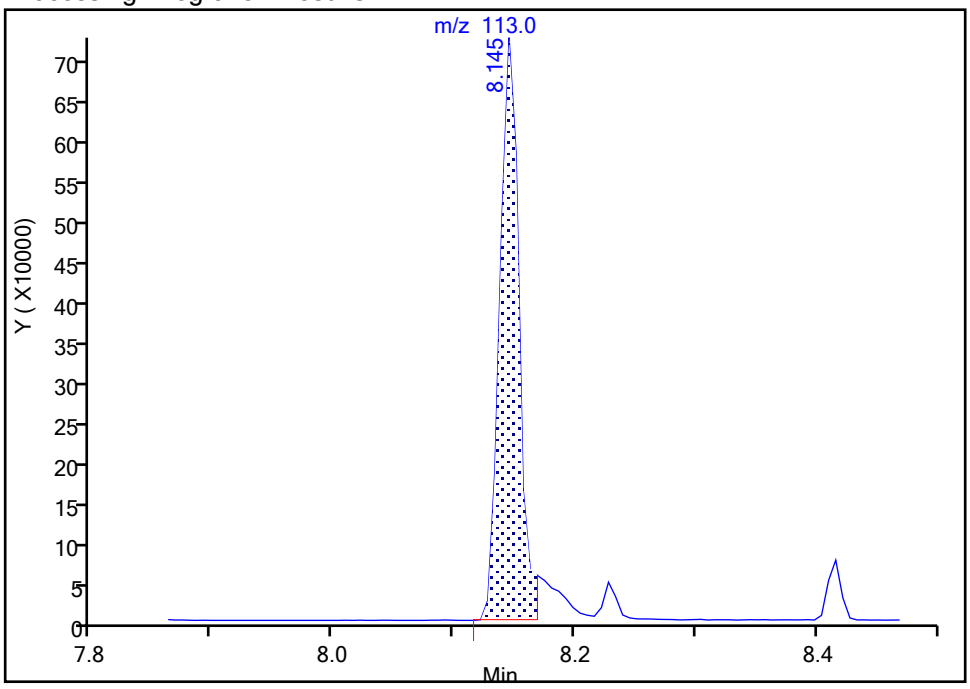
Data File: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\8.D
Injection Date: 26-Jul-2023 11:01:30 Instrument ID: A4AG2
Lims ID: std7 l1lvi
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL
Column: 5% phenyl (0.18 mm) Detector MS SCAN

83 Caprolactam, CAS: 105-60-2

Signal: 1

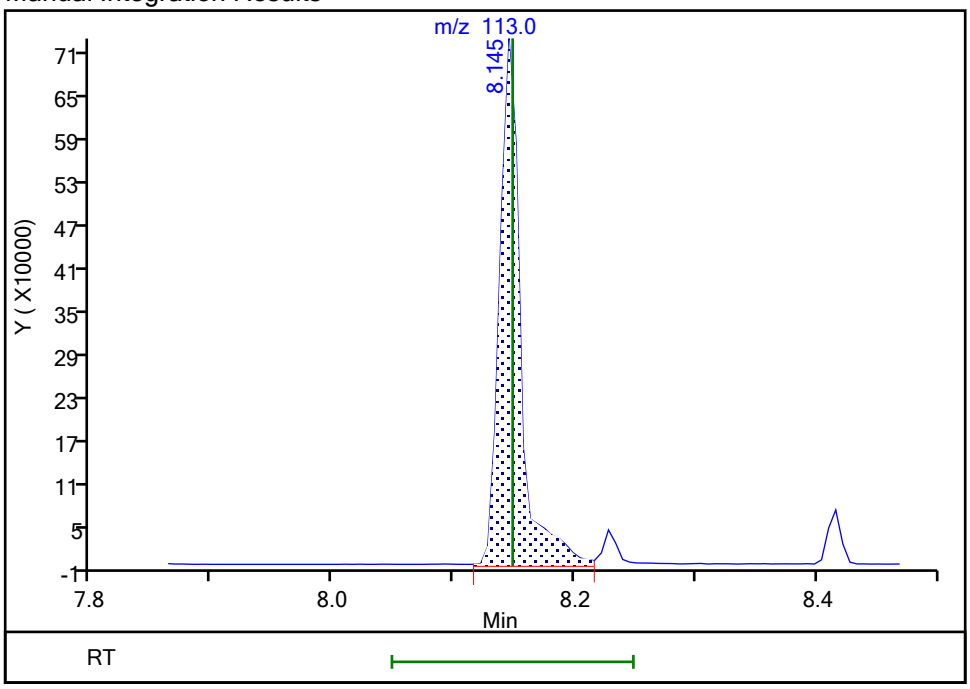
Processing Integration Results

RT: 8.15
Area: 807709
Amount: 2831.9554
Amount Units: ng/ml



Manual Integration Results

RT: 8.15
Area: 882445
Amount: 2992.9038
Amount Units: ng/ml



Reviewer: KDZ4, 26-Jul-2023 11:41:07 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Cleveland
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\9.D
Lims ID: std8 l1lvi
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 26-Jul-2023 11:24:30 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 240-0131814-009
Misc. Info.: STD8 L1LVI
Operator ID: Instrument ID: A4AG2
Sublist: chrom-LVI AG2 8270*sub20

Method: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\LVI AG2 8270.m
Limit Group: MSS 8270D ICAL
Last Update: 26-Jul-2023 12:59:23 Calib Date: 26-Jul-2023 11:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\10.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: CTX1679

First Level Reviewer: KDZ4 Date: 26-Jul-2023 12:12:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.745	6.748	-0.003	95	268981	400.0	400.0	
* 2 Naphthalene-d8	136	7.816	7.819	-0.003	99	1108047	400.0	400.0	
* 3 Acenaphthene-d10	164	9.316	9.319	-0.003	93	588018	400.0	400.0	
* 4 Phenanthrene-d10	188	10.604	10.613	-0.009	97	886520	400.0	400.0	
* 5 Chrysene-d12	240	13.563	13.566	-0.003	97	636778	400.0	400.0	
* 6 Perylene-d12	264	15.951	15.960	-0.009	94	613983	400.0	400.0	
$ 7 2-Fluorophenol	112	5.681	5.684	-0.003	91	1095968	2000.0	2071.6	
$ 8 Phenol-d5	99	6.392	6.390	0.002	0	2171117	2000.0	2169.1	
$ 9 Nitrobenzene-d5	82	7.192	7.195	-0.003	86	2067526	2000.0	2141.2	
$ 10 2-Fluorobiphenyl (Surr)	172	8.704	8.713	-0.009	99	3955542	2000.0	2004.4	
$ 11 2,4,6-Tribromophenol	330	9.992	9.995	-0.003	90	398619	2000.0	2073.0	
$ 12 Terphenyl-d14	244	12.104	12.113	-0.009	96	3802134	2000.0	2076.3	
26 1,4-Dioxane	88	4.293	4.296	-0.003	95	331653	2000.0	2083.4	
27 N-Nitrosodimethylamine	74	4.551	4.549	0.002	95	1189020	2000.0	2107.1	
28 Pyridine	79		4.607				ND	ND	U
42 Benzaldehyde	77	6.387	6.390	-0.003	94	1446905	4000.0	4025.3	
43 Phenol	94	6.404	6.401	0.003	96	2227023	2000.0	2138.8	
44 Aniline	93	6.469	6.466	0.003	99	2995713	2000.0	2034.5	
45 Bis(2-chloroethyl)ether	93	6.492	6.490	0.002	97	1953143	2000.0	1897.2	
47 2-Chlorophenol	128	6.575	6.578	-0.003	95	1903724	2000.0	2027.7	
244 n-Decane	57	6.575	6.584	-0.009	88	1750897	2000.0	1960.1	
48 1,3-Dichlorobenzene	146	6.704	6.707	-0.003	98	2164549	2000.0	1998.6	
49 1,4-Dichlorobenzene	146	6.757	6.760	-0.003	95	2192684	2000.0	1966.2	
50 Benzyl alcohol	108	6.828	6.831	-0.003	96	1327032	2000.0	2109.3	
51 1,2-Dichlorobenzene	146	6.892	6.896	-0.004	99	2058300	2000.0	1913.3	
52 2-Methylphenol	108	6.904	6.907	-0.003	93	1779760	2000.0	1985.3	
54 2,2'-oxybis[1-chloropropane]	45	6.928	6.937	-0.009	94	2359299	2000.0	1781.0	
53 Indene	115	6.963	6.966	-0.003	90	6527228	4000.0	3541.8	
55 3 & 4 Methylphenol	108	7.022	7.025	-0.003	95	1856669	2000.0	1908.9	
57 N-Nitrosodi-n-propylamine	70	7.039	7.043	-0.004	81	1315403	2000.0	1926.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
58 Acetophenone	105	7.057	7.060	-0.003	96	2662393	2000.0	1888.9	
61 Hexachloroethane	117	7.181	7.190	-0.009	95	809394	2000.0	2001.1	
62 Nitrobenzene	77	7.210	7.213	-0.003	84	1867063	2000.0	2026.6	
64 Isophorone	82	7.404	7.407	-0.003	98	3758139	2000.0	2088.1	
65 2-Nitrophenol	139	7.475	7.478	-0.003	74	1031794	2000.0	2065.9	
66 2,4-Dimethylphenol	107	7.475	7.478	-0.003	88	1690542	2000.0	2197.7	
70 Benzoic acid	122	7.545	7.531	0.014	87	1990367	4000.0	4173.9	M
69 Bis(2-chloroethoxy)methane	93	7.545	7.548	-0.003	98	2184794	2000.0	1974.4	
72 2,4-Dichlorophenol	162	7.675	7.678	-0.003	93	1492793	2000.0	2018.5	
73 1,2,4-Trichlorobenzene	180	7.757	7.760	-0.003	95	1569649	2000.0	2049.4	
74 Naphthalene	128	7.834	7.837	-0.003	97	6039173	2000.0	1964.4	
75 4-Chloroaniline	127	7.851	7.860	-0.009	98	2517156	2000.0	2314.5	M
76 2,6-Dichlorophenol	162	7.863	7.872	-0.009	98	1531950	2000.0	2015.7	
78 Hexachlorobutadiene	225	7.922	7.931	-0.009	98	708297	2000.0	2062.0	
83 Caprolactam	113	8.151	8.148	0.003	84	1344356	4000.0	4160.6	M
85 4-Chloro-3-methylphenol	107	8.228	8.231	-0.003	95	1758362	2000.0	2081.1	
86 2-Methylnaphthalene	142	8.416	8.419	-0.003	93	4012893	2000.0	2031.4	
87 1-Methylnaphthalene	142	8.504	8.507	-0.003	94	3724319	2000.0	2018.7	
89 Hexachlorocyclopentadiene	237	8.551	8.560	-0.009	97	761381	2000.0	2281.3	
90 1,2,4,5-Tetrachlorobenzene	216	8.557	8.566	-0.009	98	1364039	2000.0	2060.5	
93 2,4,6-Trichlorophenol	196	8.639	8.642	-0.003	93	987049	2000.0	2030.7	
94 2,4,5-Trichlorophenol	196	8.675	8.684	-0.009	94	1040642	2000.0	2032.6	
99 1,1'-Biphenyl	154	8.798	8.807	-0.009	95	4625874	2000.0	1945.2	
100 2-Chloronaphthalene	162	8.833	8.842	-0.009	97	3537614	2000.0	2036.4	
101 2-Nitroaniline	65	8.898	8.901	-0.003	90	1034859	2000.0	2060.3	
104 Dimethyl phthalate	163	9.022	9.031	-0.009	100	3929109	2000.0	2009.0	
103 1,3-Dinitrobenzene	168	9.063	9.066	-0.003	87	631453	2000.0	2066.1	
106 2,6-Dinitrotoluene	165	9.086	9.089	-0.003	94	929746	2000.0	2244.6	
108 Acenaphthylene	152	9.198	9.207	-0.009	98	5898794	2000.0	2065.7	
109 3-Nitroaniline	138	9.251	9.254	-0.003	98	704731	2000.0	2119.8	
110 2,4-Dinitrophenol	184	9.328	9.331	-0.003	83	868179	4000.0	4168.5	
111 Acenaphthene	153	9.345	9.348	-0.003	94	3539021	2000.0	1906.9	
112 4-Nitrophenol	109	9.351	9.354	-0.003	84	913380	4000.0	4076.3	
113 2,4-Dinitrotoluene	165	9.439	9.442	-0.003	95	1207701	2000.0	2057.1	
115 Dibenzofuran	168	9.492	9.495	-0.003	96	4904027	2000.0	2083.2	
118 2,3,4,6-Tetrachlorophenol	232	9.586	9.589	-0.003	76	687674	2000.0	2034.3	
248 Hexadecane	57	9.604	9.613	-0.009	93	2455278	NC	NC	
120 Diethyl phthalate	149	9.616	9.625	-0.009	98	3911306	2000.0	2000.5	
122 4-Chlorophenyl phenyl ether	204	9.751	9.760	-0.009	96	1673526	2000.0	2073.1	
125 4-Nitroaniline	138	9.780	9.778	0.002	93	682261	2000.0	1965.4	
124 Fluorene	166	9.786	9.789	-0.003	94	3993106	2000.0	2015.9	
127 4,6-Dinitro-2-methylphenol	198	9.798	9.795	0.003	88	1241395	4000.0	4085.0	
129 Diphenylamine	169	9.851	9.854	-0.003	95	2855811	1700.0	1747.0	
128 N-Nitrosodiphenylamine	169	9.851	9.854	-0.003	98	2855811	2000.0	2055.2	
131 Azobenzene	77	9.892	9.895	-0.003	97	4159214	2000.0	2070.3	
138 4-Bromophenyl phenyl ether	248	10.180	10.184	-0.004	69	879157	2000.0	2130.4	
141 Atrazine	200	10.275	10.278	-0.003	94	1818039	4000.0	4274.1	
140 Hexachlorobenzene	284	10.275	10.284	-0.009	78	894505	2000.0	2029.0	
245 n-Octadecane	57	10.392	10.401	-0.009	96	2561736	2000.0	2036.0	
143 Pentachlorophenol	266	10.433	10.436	-0.003	92	1240185	4000.0	4101.9	
148 Phenanthrene	178	10.627	10.631	-0.004	98	5243095	2000.0	2004.0	
149 Anthracene	178	10.675	10.678	-0.004	98	5391969	2000.0	2128.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
150 Carbazole	167	10.786	10.795	-0.009	96	4733375	2000.0	2053.1	
154 Di-n-butyl phthalate	149	11.016	11.025	-0.009	100	6551876	2000.0	2136.4	
159 Fluoranthene	202	11.745	11.748	-0.003	99	4969106	2000.0	2143.5	
160 Benzidine	184	11.833	11.836	-0.003	100	4192713	4000.0	4072.1	
161 Pyrene	202	12.004	12.007	-0.003	96	5118699	2000.0	2041.3	
169 Butyl benzyl phthalate	149	12.639	12.648	-0.009	98	2831847	2000.0	2017.7	
174 Bis(2-ethylhexyl) phthalate	149	13.416	13.419	-0.003	97	3996423	2000.0	2033.6	
177 3,3'-Dichlorobenzidine	252	13.457	13.460	-0.003	76	2922410	4000.0	4021.1	
178 Benzo[a]anthracene	228	13.545	13.548	-0.003	99	4615998	2000.0	2174.7	
179 Chrysene	228	13.604	13.607	-0.003	97	4428186	2000.0	2092.7	
181 Di-n-octyl phthalate	149	14.445	14.448	-0.003	99	6345259	2000.0	2037.1	
183 Benzo[b]fluoranthene	252	15.292	15.295	-0.003	97	4137130	2000.0	2178.4	
184 Benzo[k]fluoranthene	252	15.333	15.336	-0.003	96	4377588	2000.0	2231.1	
185 Benzo[a]pyrene	252	15.857	15.866	-0.009	83	3885028	2000.0	2044.9	
190 Indeno[1,2,3-cd]pyrene	276	18.121	18.124	-0.003	94	4292126	2000.0	2021.7	
189 Dibenz(a,h)anthracene	278	18.133	18.136	-0.003	90	3618540	2000.0	2038.4	
191 Benzo[g,h,i]perylene	276	18.774	18.777	-0.003	92	3381669	2000.0	2179.4	
S 246 Total Cresols	100				0			3894.2	
S 193 Methyl Phenols,Total	100				0			3894.2	

QC Flag Legend

Processing Flags
- NC - Not Calibrated
- ND - Not Detected or Marked ND

Review Flags
- M - Manually Integrated
- U - Marked Undetected

Reagents:

SMLIST1 L8 W_00021 Amount Added: 0.10 Units: mL

Report Date: 26-Jul-2023 12:59:24 Chrom Revision: 2.3 19-Jul-2023 18:28:48

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\9.D

Injection Date: 26-Jul-2023 11:24:30 Instrument ID: A4AG2 Operator ID:

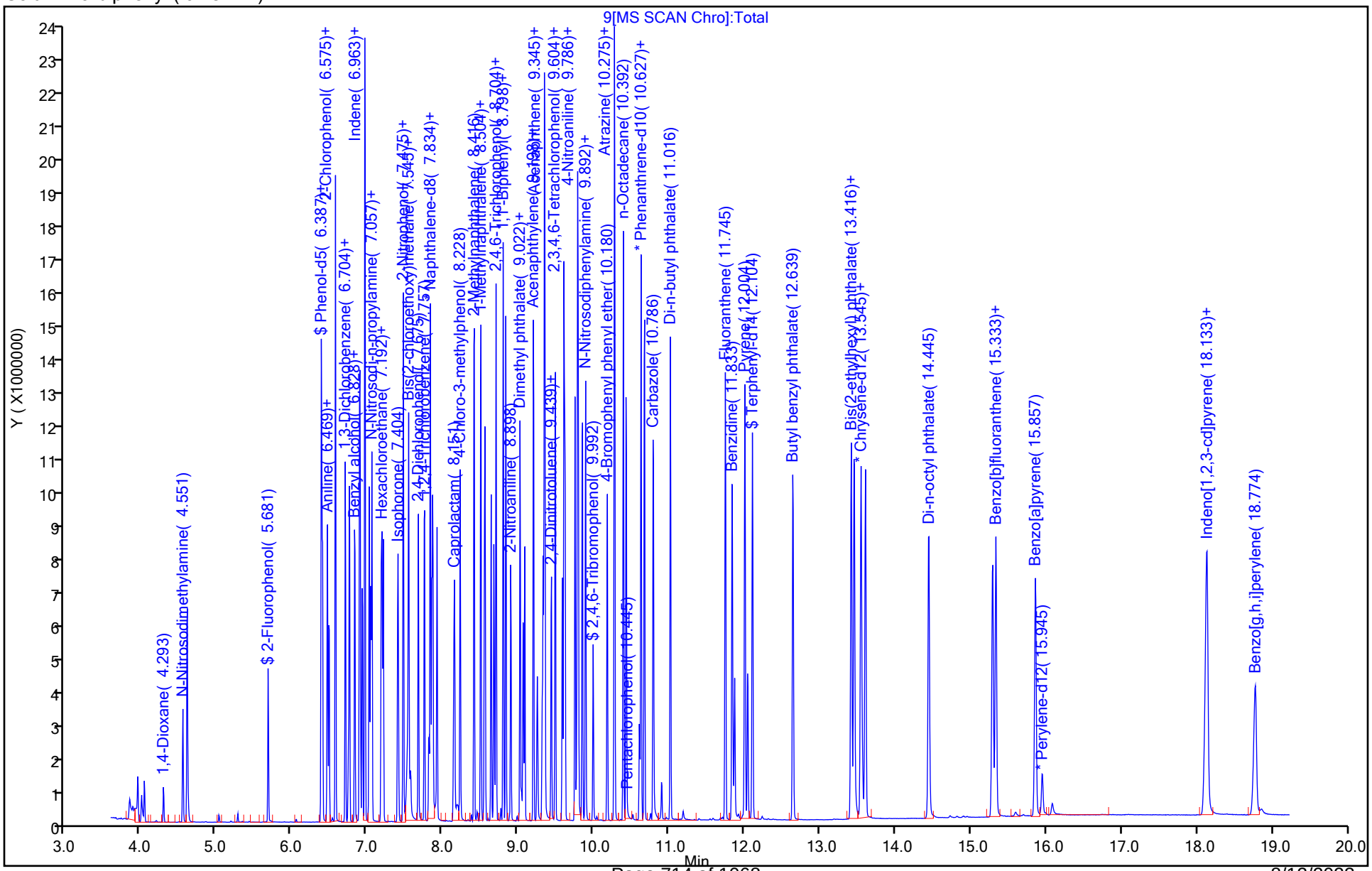
Lims ID: std8 l1lvi Worklist Smp#: 9

Client ID:

Injection Vol: 5.0 ul Dil. Factor: 1.0000 ALS Bottle#: 9

Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL

Column: 5% phenyl (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Cleveland

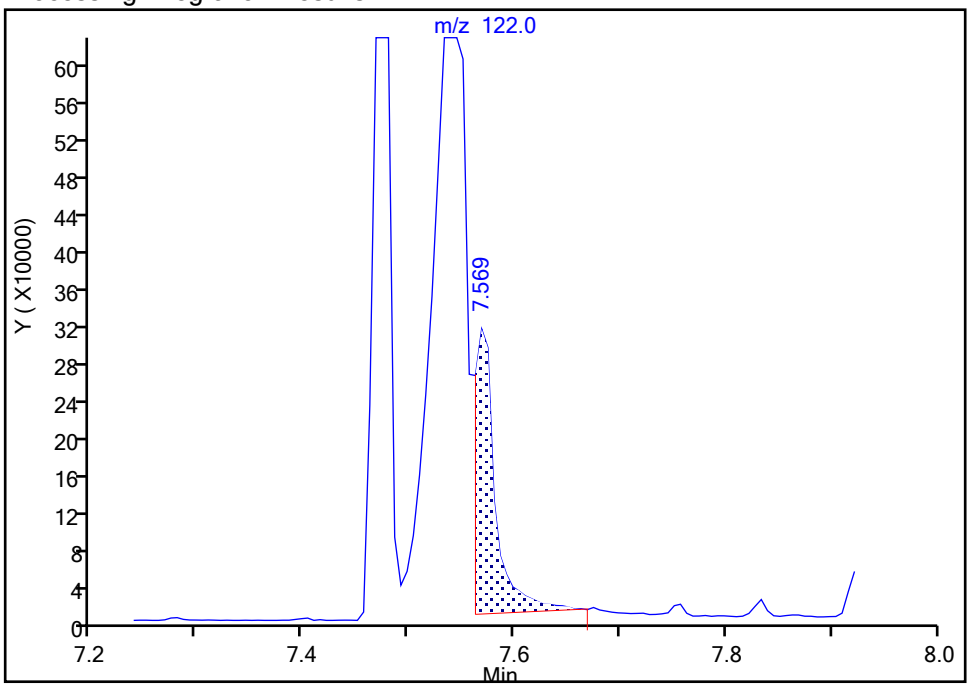
Data File: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\9.D
Injection Date: 26-Jul-2023 11:24:30 Instrument ID: A4AG2
Lims ID: std8 l1lvi
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL
Column: 5% phenyl (0.18 mm) Detector MS SCAN

70 Benzoic acid, CAS: 65-85-0

Signal: 1

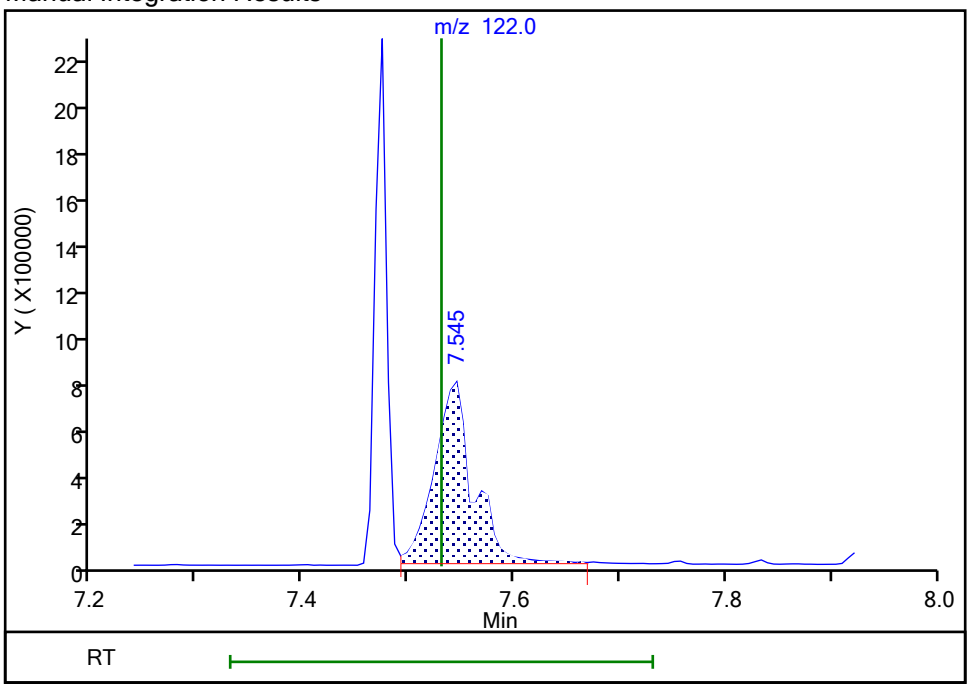
Processing Integration Results

RT: 7.57
Area: 420783
Amount: 1786.1052
Amount Units: ng/ml



Manual Integration Results

RT: 7.55
Area: 1990367
Amount: 4173.9165
Amount Units: ng/ml



Reviewer: KDZ4, 26-Jul-2023 11:48:47 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Cleveland

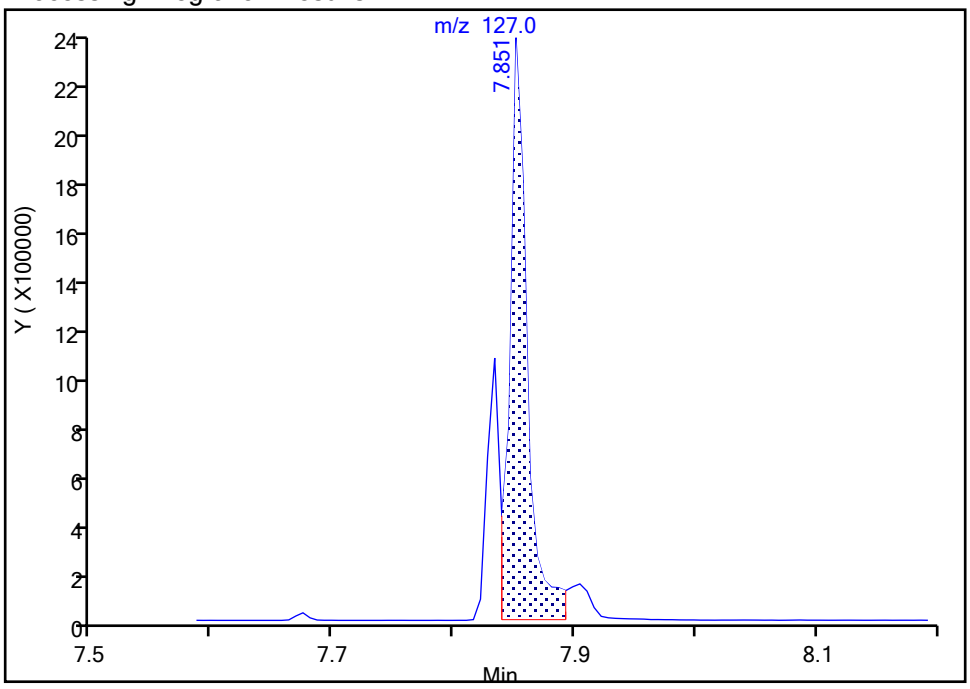
Data File:	\\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\9.D				
Injection Date:	26-Jul-2023 11:24:30	Instrument ID:	A4AG2		
Lims ID:	std8 l1lvi				
Client ID:					
Operator ID:		ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

75 4-Chloroaniline, CAS: 106-47-8

Signal: 1

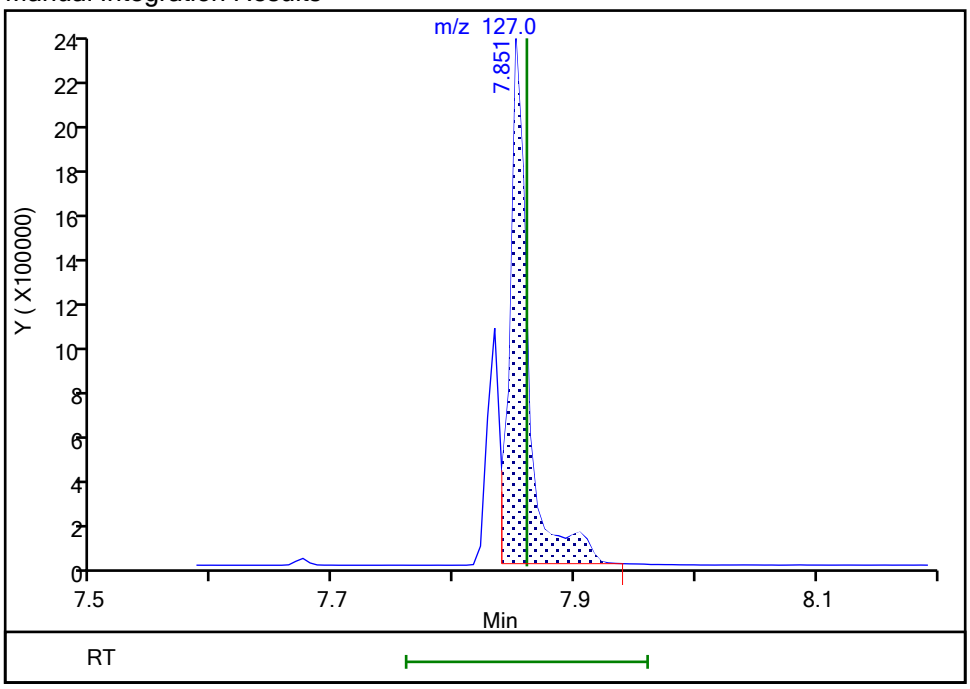
Processing Integration Results

RT: 7.85
Area: 2351425
Amount: 2206.6290
Amount Units: ng/ml



Manual Integration Results

RT: 7.85
Area: 2517156
Amount: 2314.5168
Amount Units: ng/ml



Reviewer: KDZ4, 26-Jul-2023 11:49:16 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Cleveland

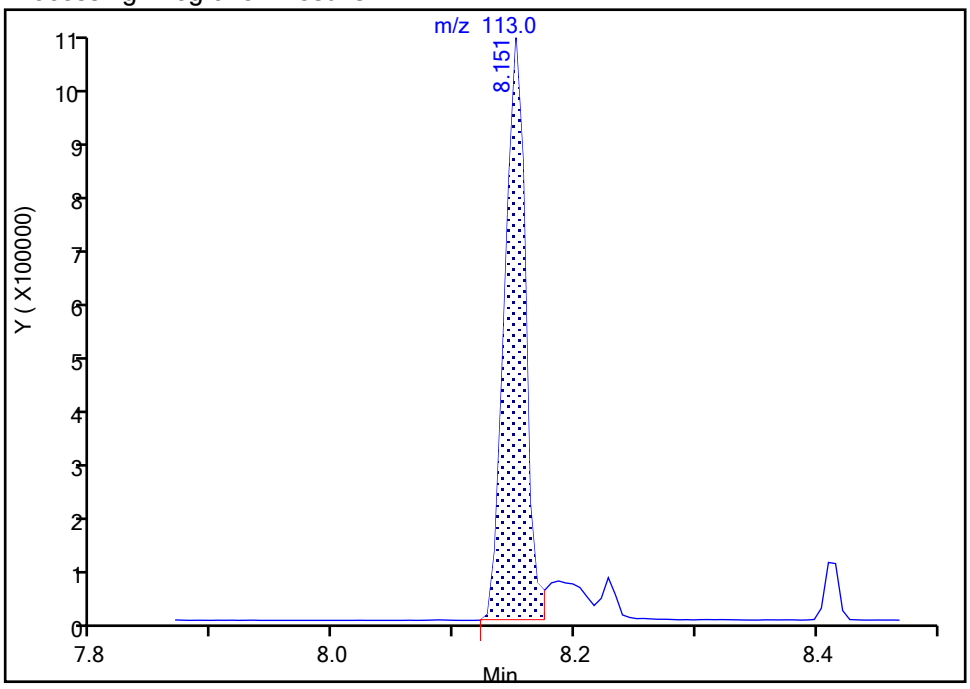
Data File: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\9.D
Injection Date: 26-Jul-2023 11:24:30 Instrument ID: A4AG2
Lims ID: std8 l1lvi
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL
Column: 5% phenyl (0.18 mm) Detector MS SCAN

83 Caprolactam, CAS: 105-60-2

Signal: 1

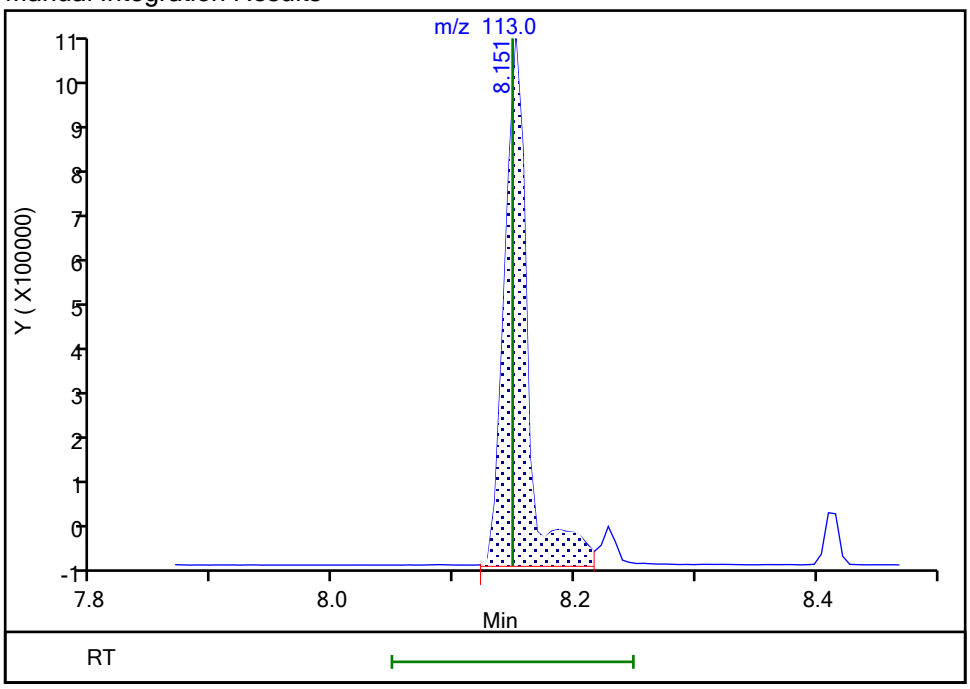
Processing Integration Results

RT: 8.15
Area: 1206351
Amount: 3816.0031
Amount Units: ng/ml



Manual Integration Results

RT: 8.15
Area: 1344356
Amount: 4160.5527
Amount Units: ng/ml



Reviewer: KDZ4, 26-Jul-2023 11:49:50 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

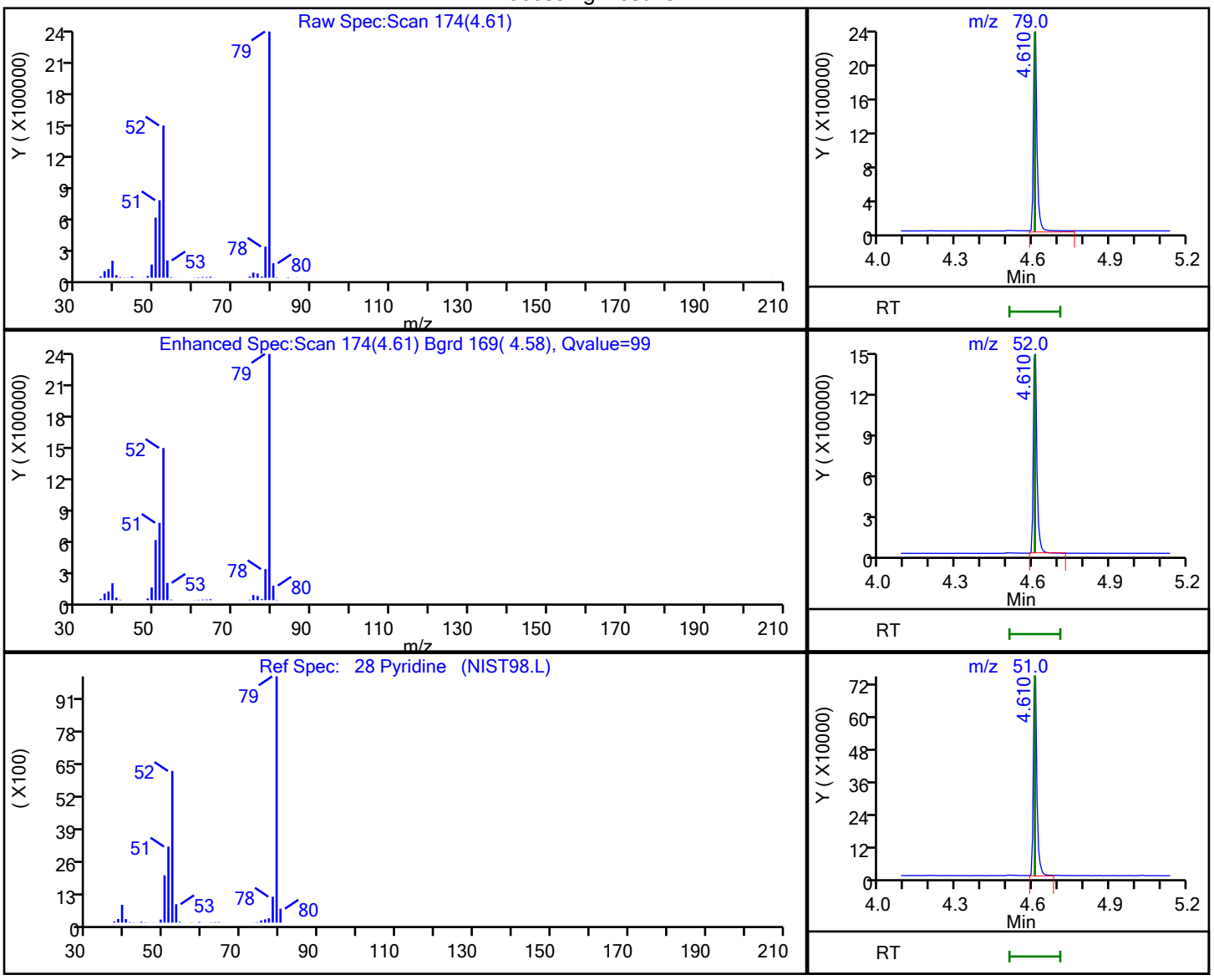
User Disabled Compound Report

Eurofins Cleveland

Data File:	\\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\9.D				
Injection Date:	26-Jul-2023 11:24:30	Instrument ID:	A4AG2		
Lims ID:	std8 l1lvi				
Client ID:					
Operator ID:		ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

28 Pyridine, CAS: 110-86-1

Processing Results



RT	Mass	Response	Amount
4.61	79.00	2280917	5149.6460
4.61	52.00	1455930	
4.61	51.00	728538	

Reviewer: KDZ4, 26-Jul-2023 12:17:32 -04:00:00 (UTC)

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

Eurofins Cleveland
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\10.D
Lims ID: std9 l1lvi
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 26-Jul-2023 11:48:30 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 240-0131814-010
Misc. Info.: STD9 L1LVI
Operator ID: Instrument ID: A4AG2
Sublist: chrom-LVI AG2 8270*sub20

Method: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\LVI AG2 8270.m
Limit Group: MSS 8270D ICAL
Last Update: 26-Jul-2023 12:59:35 Calib Date: 26-Jul-2023 11:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\10.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: CTX1679

First Level Reviewer: KDZ4 Date: 26-Jul-2023 12:17:08

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.746	6.748	-0.002	95	253743	400.0	400.0	
* 2 Naphthalene-d8	136	7.810	7.819	-0.009	99	1110244	400.0	400.0	
* 3 Acenaphthene-d10	164	9.316	9.319	-0.003	93	578661	400.0	400.0	
* 4 Phenanthrene-d10	188	10.604	10.613	-0.009	97	848283	400.0	400.0	
* 5 Chrysene-d12	240	13.563	13.566	-0.003	97	605167	400.0	400.0	
* 6 Perylene-d12	264	15.951	15.960	-0.009	94	588421	400.0	400.0	
$ 7 2-Fluorophenol	112		5.684				ND	ND	U
$ 8 Phenol-d5	99	6.393	6.390	0.003	0	2725356	2500.0	2886.3	
$ 9 Nitrobenzene-d5	82	7.193	7.195	-0.002	85	2516135	2500.0	2600.6	
$ 10 2-Fluorobiphenyl (Surr)	172	8.704	8.713	-0.009	100	4681031	2500.0	2410.4	
$ 11 2,4,6-Tribromophenol	330	9.992	9.995	-0.003	90	483476	2500.0	2547.1	
$ 12 Terphenyl-d14	244	12.104	12.113	-0.009	96	4445557	2500.0	2554.5	
26 1,4-Dioxane	88		4.296				ND	ND	U
27 N-Nitrosodimethylamine	74	4.552	4.549	0.003	95	1407518	2500.0	2644.0	
28 Pyridine	79		4.607				ND	ND	U
42 Benzaldehyde	77		6.390				ND	ND	U
43 Phenol	94	6.404	6.401	0.003	97	2820464	2500.0	2871.4	
44 Aniline	93	6.469	6.466	0.003	99	3690381	2500.0	2656.8	
45 Bis(2-chloroethyl)ether	93	6.487	6.490	-0.003	97	2320103	2500.0	2389.0	
47 2-Chlorophenol	128	6.575	6.578	-0.003	95	2304784	2500.0	2602.3	
244 n-Decane	57		6.584				ND	ND	U
48 1,3-Dichlorobenzene	146	6.704	6.707	-0.003	98	2483275	2500.0	2430.5	
49 1,4-Dichlorobenzene	146	6.757	6.760	-0.003	95	2556968	2500.0	2430.6	
50 Benzyl alcohol	108	6.828	6.831	-0.003	97	1619198	2500.0	2728.3	
51 1,2-Dichlorobenzene	146	6.893	6.896	-0.003	98	2443315	2500.0	2407.6	
52 2-Methylphenol	108	6.904	6.907	-0.003	93	2192439	2500.0	2592.5	
54 2,2'-oxybis[1-chloropropane]	45	6.928	6.937	-0.009	94	2863175	2500.0	2291.1	
53 Indene	115	6.963	6.966	-0.003	90	7228406	5000.0	4157.8	e
55 3 & 4 Methylphenol	108	7.022	7.025	-0.003	95	2289425	2500.0	2488.5	
57 N-Nitrosodi-n-propylamine	70	7.040	7.043	-0.003	85	1597841	2500.0	2480.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
58 Acetophenone	105	7.057	7.060	-0.003	97	3235073	2500.0	2433.1	
61 Hexachloroethane	117	7.181	7.190	-0.009	94	960008	2500.0	2516.0	
62 Nitrobenzene	77	7.210	7.213	-0.003	84	2309918	2500.0	2502.4	
64 Isophorone	82	7.404	7.407	-0.003	99	4566678	2500.0	2532.3	
65 2-Nitrophenol	139	7.475	7.478	-0.003	93	1264314	2500.0	2519.7	
66 2,4-Dimethylphenol	107	7.475	7.478	-0.003	90	2057441	2500.0	2669.4	
70 Benzoic acid	122	7.551	7.531	0.020	88	2504675	5000.0	4941.6	M
69 Bis(2-chloroethoxy)methane	93	7.545	7.548	-0.003	98	2654396	2500.0	2394.0	
72 2,4-Dichlorophenol	162	7.675	7.678	-0.003	93	1829206	2500.0	2461.0	
73 1,2,4-Trichlorobenzene	180	7.751	7.760	-0.009	94	1920231	2500.0	2502.2	
74 Naphthalene	128	7.834	7.837	-0.003	97	6955709	2500.0	2258.1	e
75 4-Chloroaniline	127	7.851	7.860	-0.009	98	2901279	2500.0	2662.4	M
76 2,6-Dichlorophenol	162	7.863	7.872	-0.009	98	1883105	2500.0	2468.2	
78 Hexachlorobutadiene	225	7.922	7.931	-0.009	98	868321	2500.0	2522.8	
83 Caprolactam	113	8.157	8.148	0.009	85	1552834	5000.0	4793.8	M
85 4-Chloro-3-methylphenol	107	8.228	8.231	-0.003	94	2060030	2500.0	2429.0	
86 2-Methylnaphthalene	142	8.410	8.419	-0.009	94	4777207	2500.0	2413.5	
87 1-Methylnaphthalene	142	8.504	8.507	-0.003	94	4465538	2500.0	2415.7	
89 Hexachlorocyclopentadiene	237	8.551	8.560	-0.009	97	919108	2500.0	2798.4	
90 1,2,4,5-Tetrachlorobenzene	216	8.557	8.566	-0.009	98	1664914	2500.0	2555.7	
93 2,4,6-Trichlorophenol	196	8.640	8.642	-0.002	92	1210376	2500.0	2523.8	
94 2,4,5-Trichlorophenol	196	8.675	8.684	-0.009	94	1261224	2500.0	2492.1	
99 1,1'-Biphenyl	154	8.798	8.807	-0.009	95	5484069	2500.0	2343.4	
100 2-Chloronaphthalene	162	8.834	8.842	-0.008	97	4196845	2500.0	2454.9	
101 2-Nitroaniline	65	8.898	8.901	-0.003	90	1264600	2500.0	2552.7	
104 Dimethyl phthalate	163	9.022	9.031	-0.009	100	4715753	2500.0	2450.3	
103 1,3-Dinitrobenzene	168	9.063	9.066	-0.003	87	764140	2500.0	2531.8	
106 2,6-Dinitrotoluene	165	9.087	9.089	-0.002	95	1104745	2500.0	2710.2	
108 Acenaphthylene	152	9.198	9.207	-0.009	98	6818194	2500.0	2426.3	e
109 3-Nitroaniline	138		9.254				ND	ND	U
110 2,4-Dinitrophenol	184	9.334	9.331	0.003	89	1078903	5000.0	4937.5	
111 Acenaphthene	153	9.345	9.348	-0.003	95	4195569	2500.0	2297.2	
112 4-Nitrophenol	109	9.357	9.354	0.003	85	1105977	5000.0	5001.8	
113 2,4-Dinitrotoluene	165	9.439	9.442	-0.003	95	1440817	2500.0	2487.5	
115 Dibenzofuran	168	9.492	9.495	-0.003	96	5781786	2500.0	2495.8	
118 2,3,4,6-Tetrachlorophenol	232	9.587	9.589	-0.002	76	844842	2500.0	2530.7	
248 Hexadecane	57	9.604	9.613	-0.009	93	2852649	NC	NC	
120 Diethyl phthalate	149	9.616	9.625	-0.009	99	4620533	2500.0	2401.4	
122 4-Chlorophenyl phenyl ether	204	9.751	9.760	-0.009	95	2018843	2500.0	2541.3	
125 4-Nitroaniline	138	9.781	9.778	0.003	93	773803	2500.0	2552.9	
124 Fluorene	166	9.787	9.789	-0.003	94	4601042	2500.0	2360.4	
127 4,6-Dinitro-2-methylphenol	198	9.798	9.795	0.003	87	1529098	5000.0	4972.7	
129 Diphenylamine	169	9.851	9.854	-0.003	95	3329520	2125.0	2128.5	
128 N-Nitrosodiphenylamine	169	9.851	9.854	-0.003	98	3329520	2500.0	2504.2	
131 Azobenzene	77	9.892	9.895	-0.003	97	4861555	2500.0	2529.0	
138 4-Bromophenyl phenyl ether	248	10.181	10.184	-0.003	68	1044302	2500.0	2644.7	
141 Atrazine	200	10.281	10.278	0.003	94	1987464	5000.0	4883.1	
140 Hexachlorobenzene	284	10.275	10.284	-0.009	80	1050463	2500.0	2488.8	
245 n-Octadecane	57	10.392	10.401	-0.009	97	2963120	2500.0	2461.2	
143 Pentachlorophenol	266	10.434	10.436	-0.002	92	1502791	5000.0	4958.7	
148 Phenanthrene	178	10.628	10.631	-0.003	98	6115478	2500.0	2442.8	
149 Anthracene	178	10.675	10.678	-0.003	98	6251583	2500.0	2579.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
150 Carbazole	167	10.792	10.795	-0.003	96	5106956	2500.0	2314.9	
154 Di-n-butyl phthalate	149	11.016	11.025	-0.009	100	7290600	2500.0	2484.5	e
159 Fluoranthene	202	11.745	11.748	-0.003	99	5727599	2500.0	2582.1	
160 Benzidine	184	11.839	11.836	0.003	100	5271782	5000.0	4969.5	
161 Pyrene	202	12.004	12.007	-0.003	96	5968559	2500.0	2504.6	
169 Butyl benzyl phthalate	149	12.645	12.648	-0.003	97	3383131	2500.0	2529.8	
174 Bis(2-ethylhexyl) phthalate	149	13.416	13.419	-0.003	97	4695990	2500.0	2507.4	
177 3,3'-Dichlorobenzidine	252	13.457	13.460	-0.003	76	3533774	5000.0	5102.2	
178 Benzo[a]anthracene	228	13.545	13.548	-0.003	99	5308642	2500.0	2631.7	
179 Chrysene	228	13.604	13.607	-0.003	97	5018499	2500.0	2495.6	
181 Di-n-octyl phthalate	149	14.445	14.448	-0.003	99	7629618	2500.0	2545.6	
183 Benzo[b]fluoranthene	252	15.292	15.295	-0.003	97	5094066	2500.0	2798.9	
184 Benzo[k]fluoranthene	252	15.339	15.336	0.003	96	5068848	2500.0	2695.6	
185 Benzo[a]pyrene	252	15.857	15.866	-0.009	83	4654888	2500.0	2554.6	
190 Indeno[1,2,3-cd]pyrene	276	18.127	18.124	0.003	95	5158258	2500.0	2533.4	
189 Dibenz(a,h)anthracene	278	18.139	18.136	0.003	91	4341062	2500.0	2549.8	
191 Benzo[g,h,i]perylene	276	18.774	18.777	-0.003	91	3995510	2500.0	2686.9	
S 246 Total Cresols	100				0			5081.1	
S 193 Methyl Phenols,Total	100				0			5081.1	

QC Flag Legend

Processing Flags
- NC - Not Calibrated
- ND - Not Detected or Marked ND
- e - Potential Peak Saturated

Review Flags
- M - Manually Integrated
- U - Marked Undetected

Reagents:

SMLIST1 L9 W_00021 Amount Added: 0.10 Units: mL

Report Date: 26-Jul-2023 12:59:36 Chrom Revision: 2.3 19-Jul-2023 18:28:48

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\10.D

Injection Date: 26-Jul-2023 11:48:30 Instrument ID: A4AG2 Operator ID:

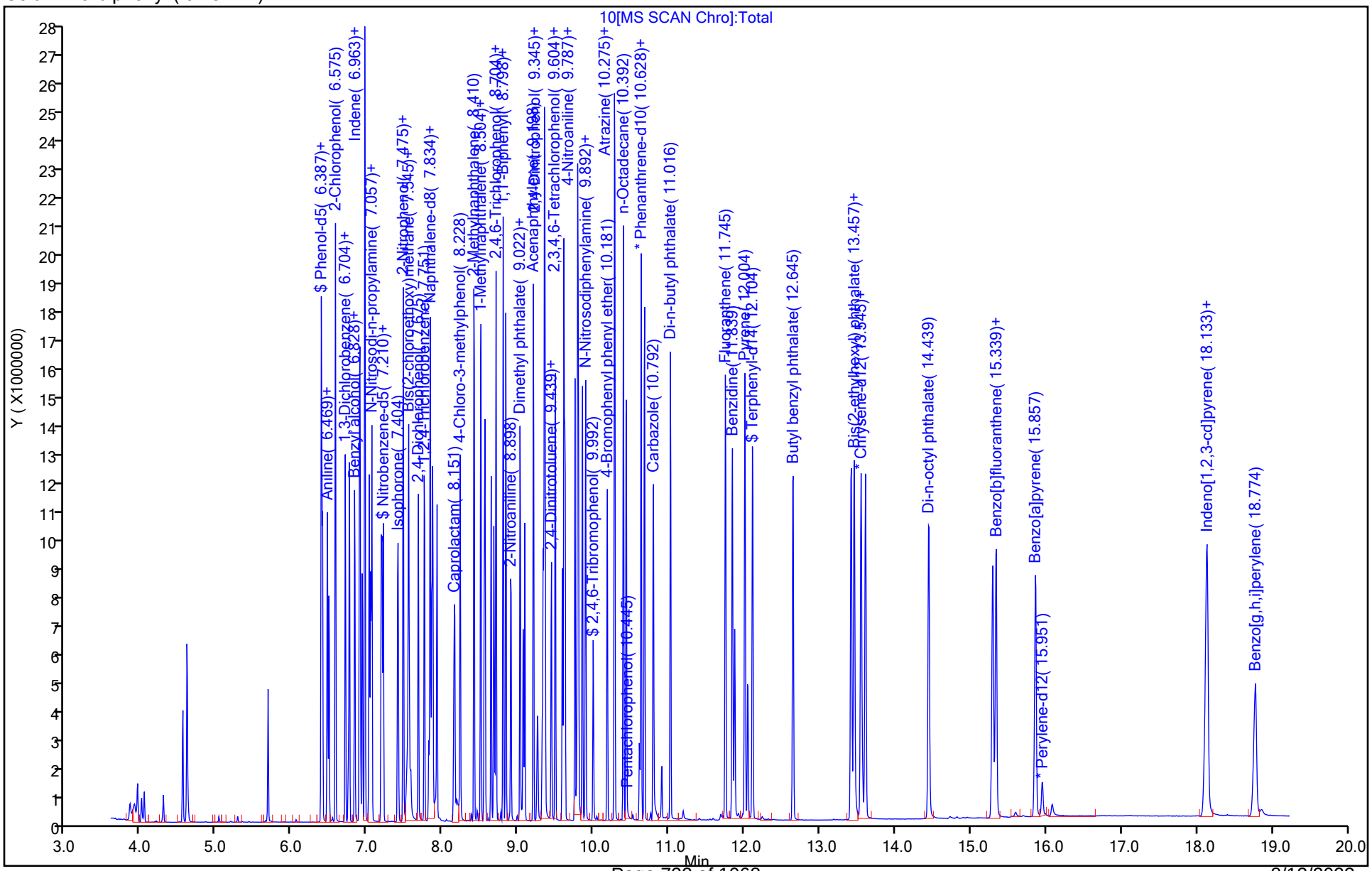
Lims ID: std9 l1lvi Worklist Smp#: 10

Client ID:

Injection Vol: 5.0 ul Dil. Factor: 1.0000 ALS Bottle#: 10

Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL

Column: 5% phenyl (0.18 mm)



Eurofins Cleveland

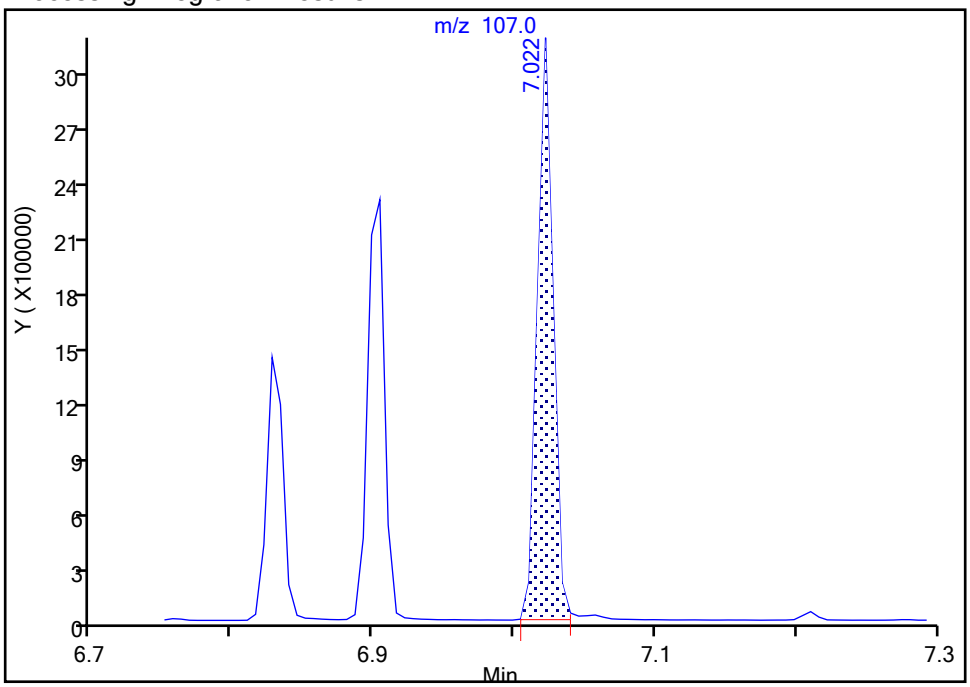
Data File:	\\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\10.D				
Injection Date:	26-Jul-2023 11:48:30	Instrument ID:	A4AG2		
Lims ID:	std9 l1lvi				
Client ID:					
Operator ID:		ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

55 3 & 4 Methylphenol, CAS: 15831-10-4

Signal: 2

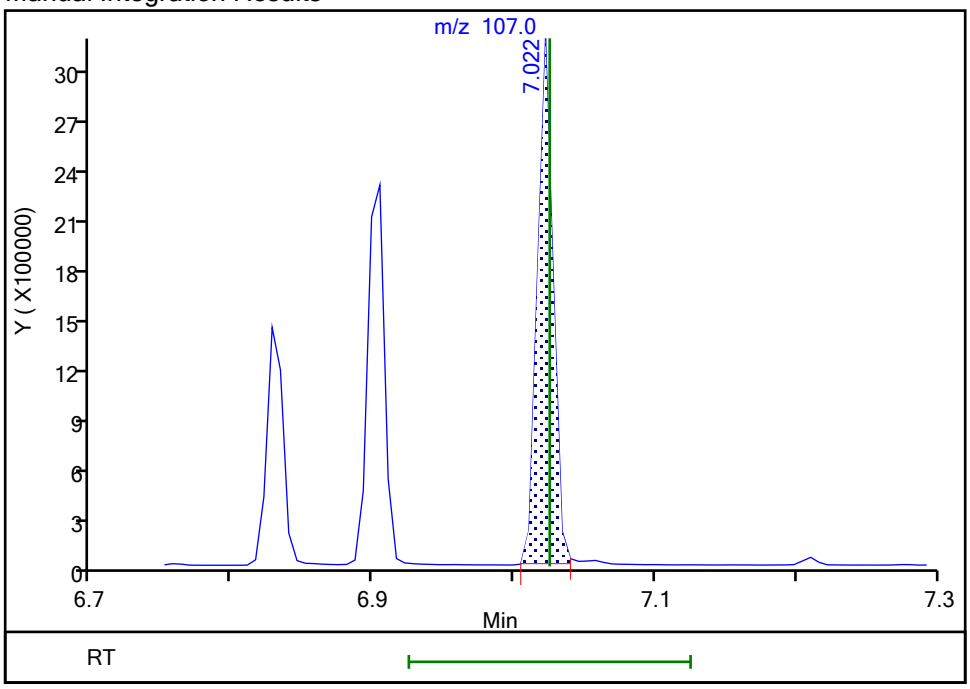
Processing Integration Results

RT: 7.02
Area: 2427340
Amount: 2488.5179
Amount Units: ng/ml



Manual Integration Results

RT: 7.02
Area: 2427340
Amount: 2488.5179
Amount Units: ng/ml



Reviewer: KDZ4, 26-Jul-2023 12:23:55 -04:00:00 (UTC)
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Cleveland

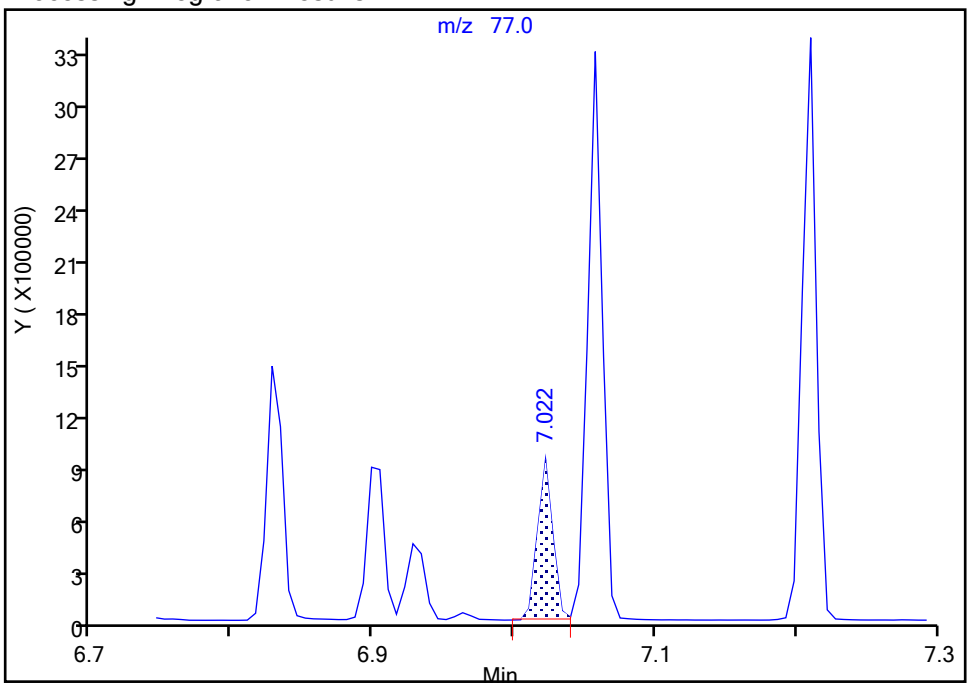
Data File:	\\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\10.D				
Injection Date:	26-Jul-2023 11:48:30	Instrument ID:	A4AG2		
Lims ID:	std9 l1lvi				
Client ID:					
Operator ID:		ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

55 3 & 4 Methylphenol, CAS: 15831-10-4

Signal: 3

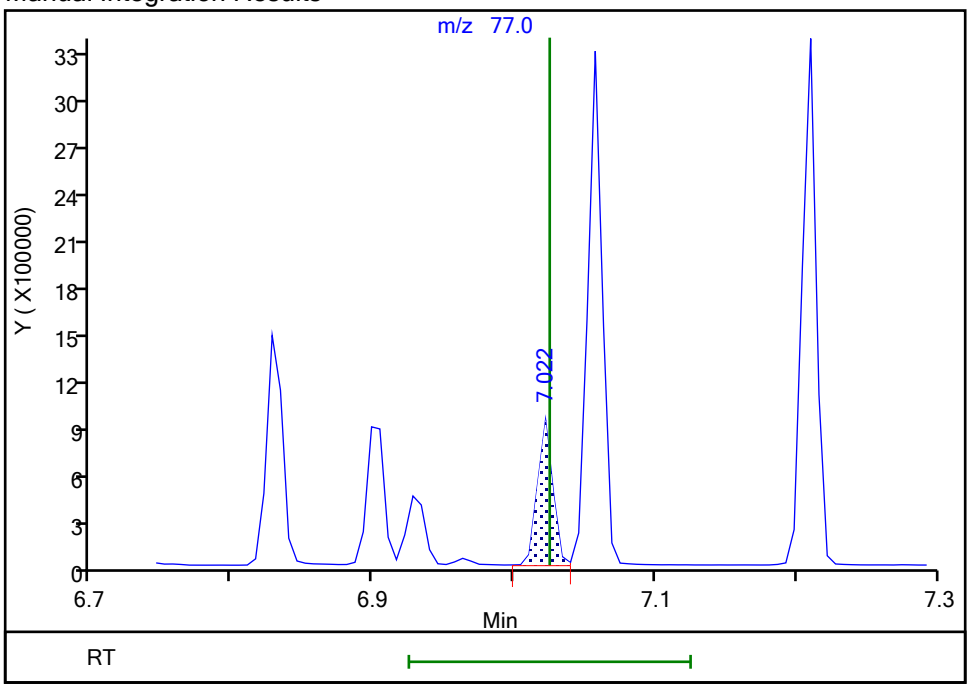
Processing Integration Results

RT: 7.02
Area: 696369
Amount: 2488.5179
Amount Units: ng/ml



Manual Integration Results

RT: 7.02
Area: 696369
Amount: 2488.5179
Amount Units: ng/ml



Reviewer: KDZ4, 26-Jul-2023 12:23:55 -04:00:00 (UTC)
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Cleveland

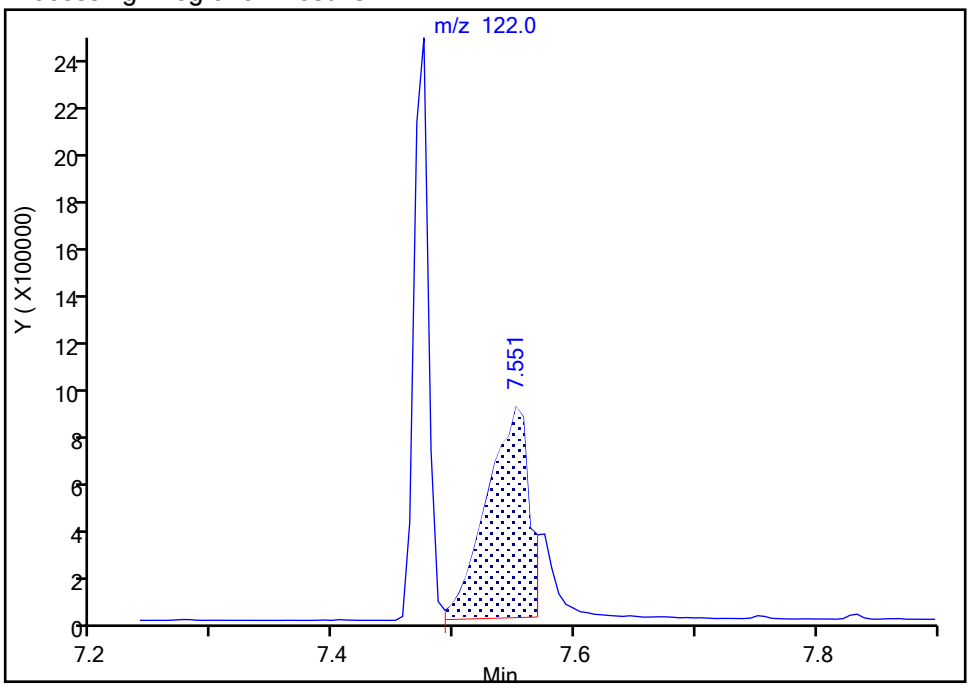
Data File: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\10.D
Injection Date: 26-Jul-2023 11:48:30 Instrument ID: A4AG2
Lims ID: std9 l1lvi
Client ID:
Operator ID: ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL
Column: 5% phenyl (0.18 mm) Detector MS SCAN

70 Benzoic acid, CAS: 65-85-0

Signal: 1

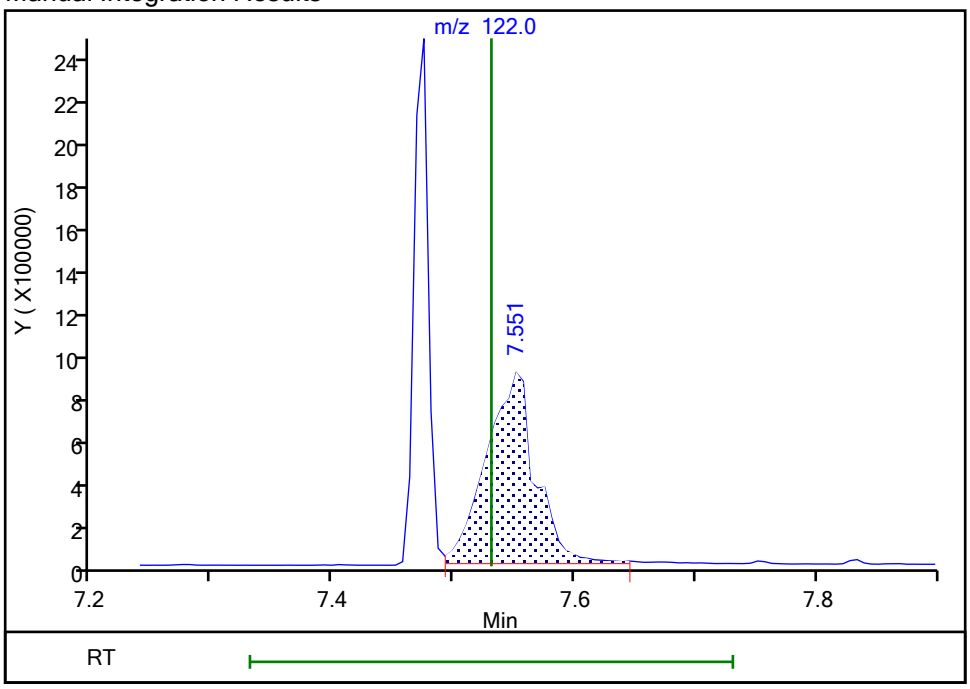
Processing Integration Results

RT: 7.55
Area: 2205846
Amount: 6860.5972
Amount Units: ng/ml



Manual Integration Results

RT: 7.55
Area: 2504675
Amount: 4941.6147
Amount Units: ng/ml



Reviewer: KDZ4, 26-Jul-2023 12:13:13 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Cleveland

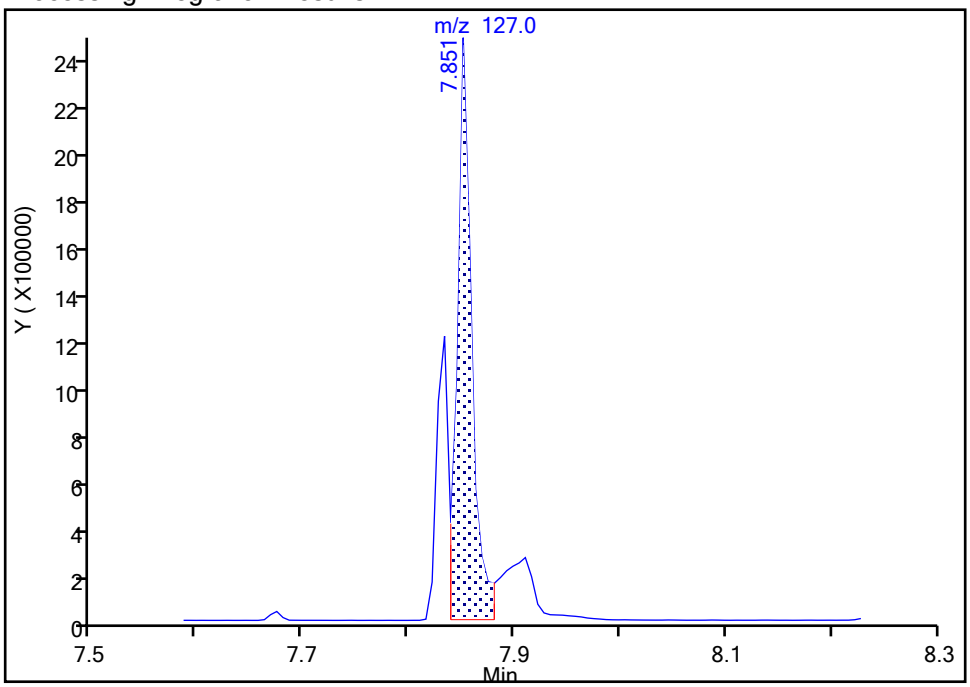
Data File:	\\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\10.D				
Injection Date:	26-Jul-2023 11:48:30	Instrument ID:	A4AG2		
Lims ID:	std9 l1lvi				
Client ID:					
Operator ID:		ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

75 4-Chloroaniline, CAS: 106-47-8

Signal: 1

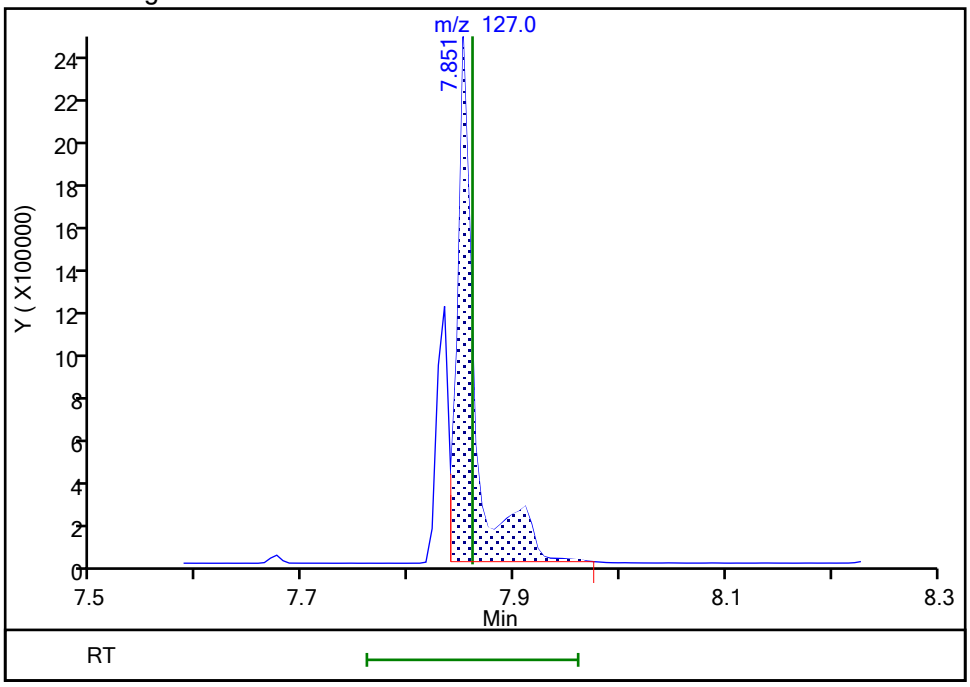
Processing Integration Results

RT: 7.85
Area: 2370235
Amount: 2229.4339
Amount Units: ng/ml



Manual Integration Results

RT: 7.85
Area: 2901279
Amount: 2662.4377
Amount Units: ng/ml



Reviewer: KDZ4, 26-Jul-2023 12:13:36 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Cleveland

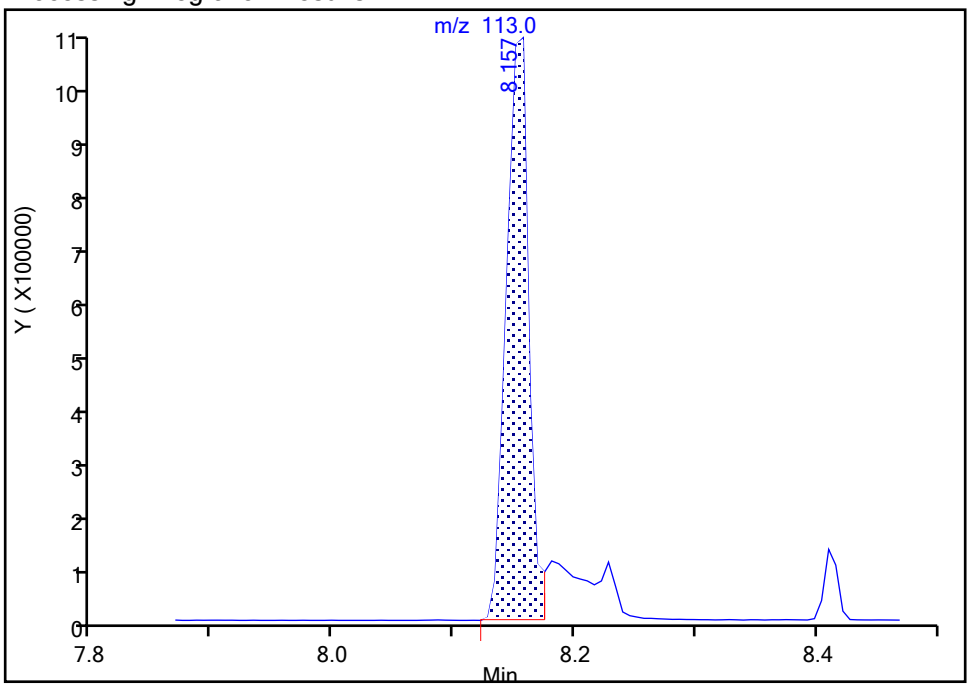
Data File:	\\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\10.D				
Injection Date:	26-Jul-2023 11:48:30	Instrument ID:	A4AG2		
Lims ID:	std9 l1lvi				
Client ID:					
Operator ID:		ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

83 Caprolactam, CAS: 105-60-2

Signal: 1

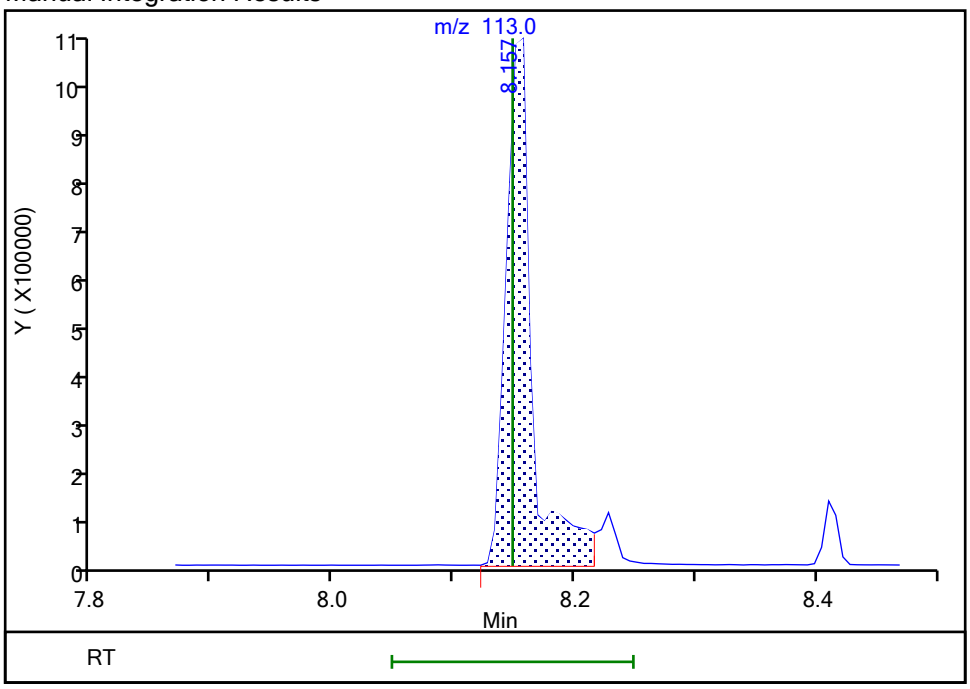
Processing Integration Results

RT: 8.16
Area: 1348245
Amount: 4343.6584
Amount Units: ng/ml



Manual Integration Results

RT: 8.16
Area: 1552834
Amount: 4793.8406
Amount Units: ng/ml



Reviewer: KDZ4, 26-Jul-2023 12:13:59 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Poor chromatography

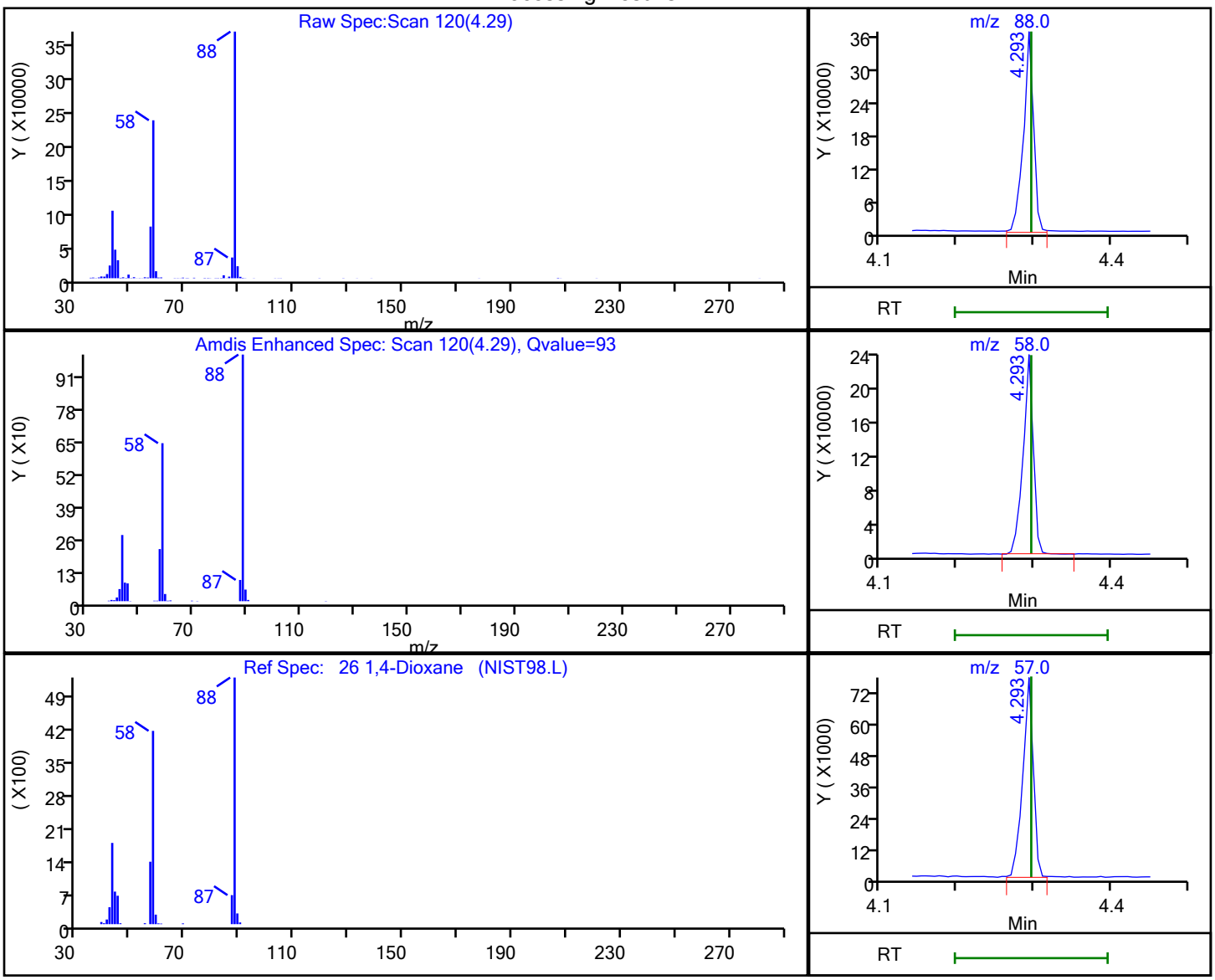
User Disabled Compound Report

Eurofins Cleveland

Data File:	\\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\10.D				
Injection Date:	26-Jul-2023 11:48:30	Instrument ID:	A4AG2		
Lims ID:	std9 l1lvi				
Client ID:					
Operator ID:		ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

26 1,4-Dioxane, CAS: 123-91-1

Processing Results



RT	Mass	Response	Amount
4.29	88.00	333521	2252.3444
4.29	58.00	219753	
4.29	57.00	73449	

Reviewer: KDZ4, 26-Jul-2023 12:15:54 -04:00:00 (UTC)

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

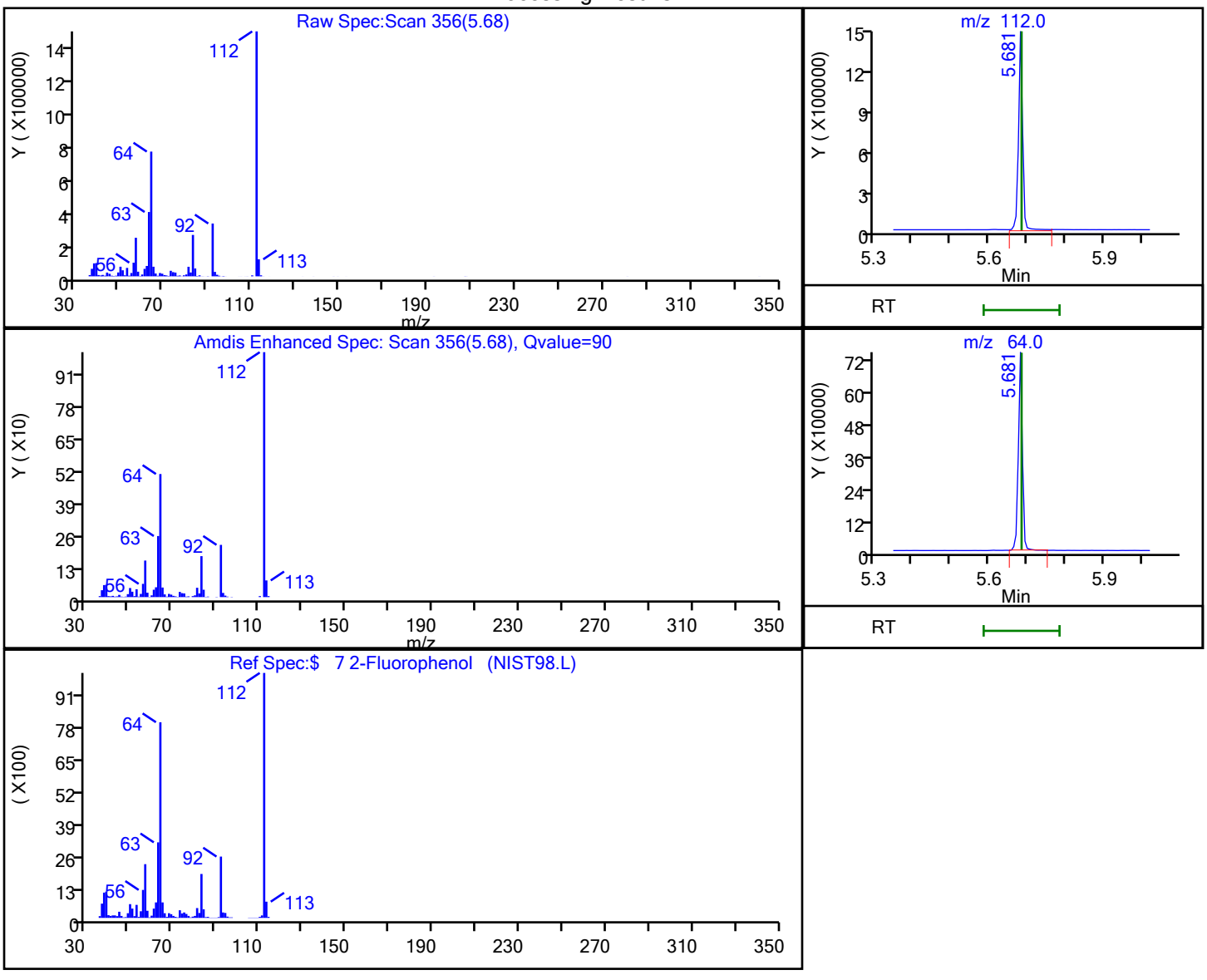
User Disabled Compound Report

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\10.D
Injection Date: 26-Jul-2023 11:48:30 Instrument ID: A4AG2
Lims ID: std9 l1lvi
Client ID:
Operator ID: ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL
Column: 5% phenyl (0.18 mm) Detector MS SCAN

$ 7 2-Fluorophenol, CAS: 367-12-4

Processing Results



RT	Mass	Response	Amount
5.68	112.00	1072714	2183.4359
5.68	64.00	550268	

Reviewer: KDZ4, 26-Jul-2023 12:14:53 -04:00:00 (UTC)
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

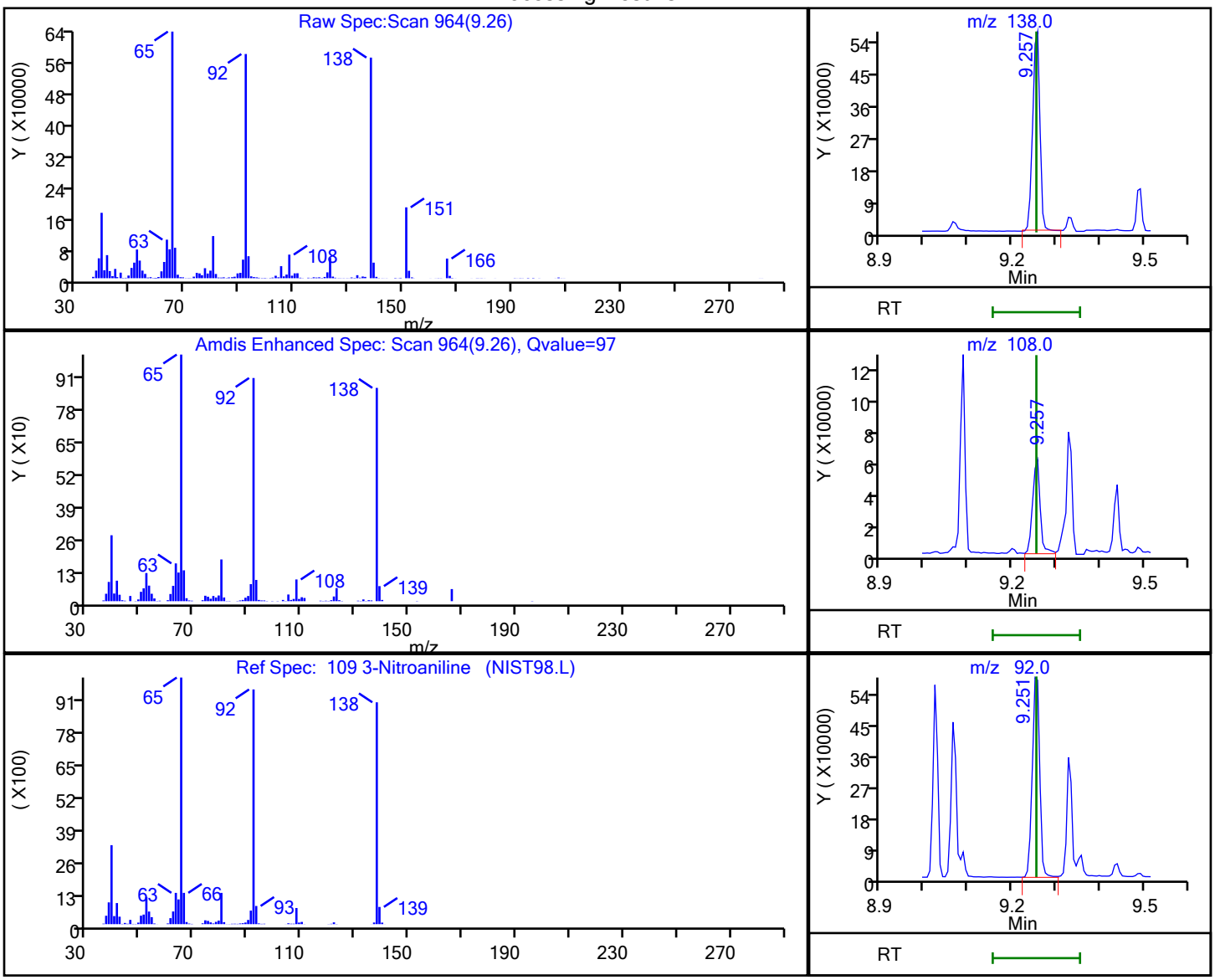
User Disabled Compound Report

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\10.D
Injection Date: 26-Jul-2023 11:48:30 Instrument ID: A4AG2
Lims ID: std9 l1lvi
Client ID:
Operator ID: ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL
Column: 5% phenyl (0.18 mm) Detector MS SCAN

109 3-Nitroaniline, CAS: 99-09-2

Processing Results



RT	Mass	Response	Amount
9.26	138.00	659785	2066.6354
9.26	108.00	72623	
9.25	92.00	697160	

Reviewer: KDZ4, 26-Jul-2023 12:28:52 -04:00:00 (UTC)
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

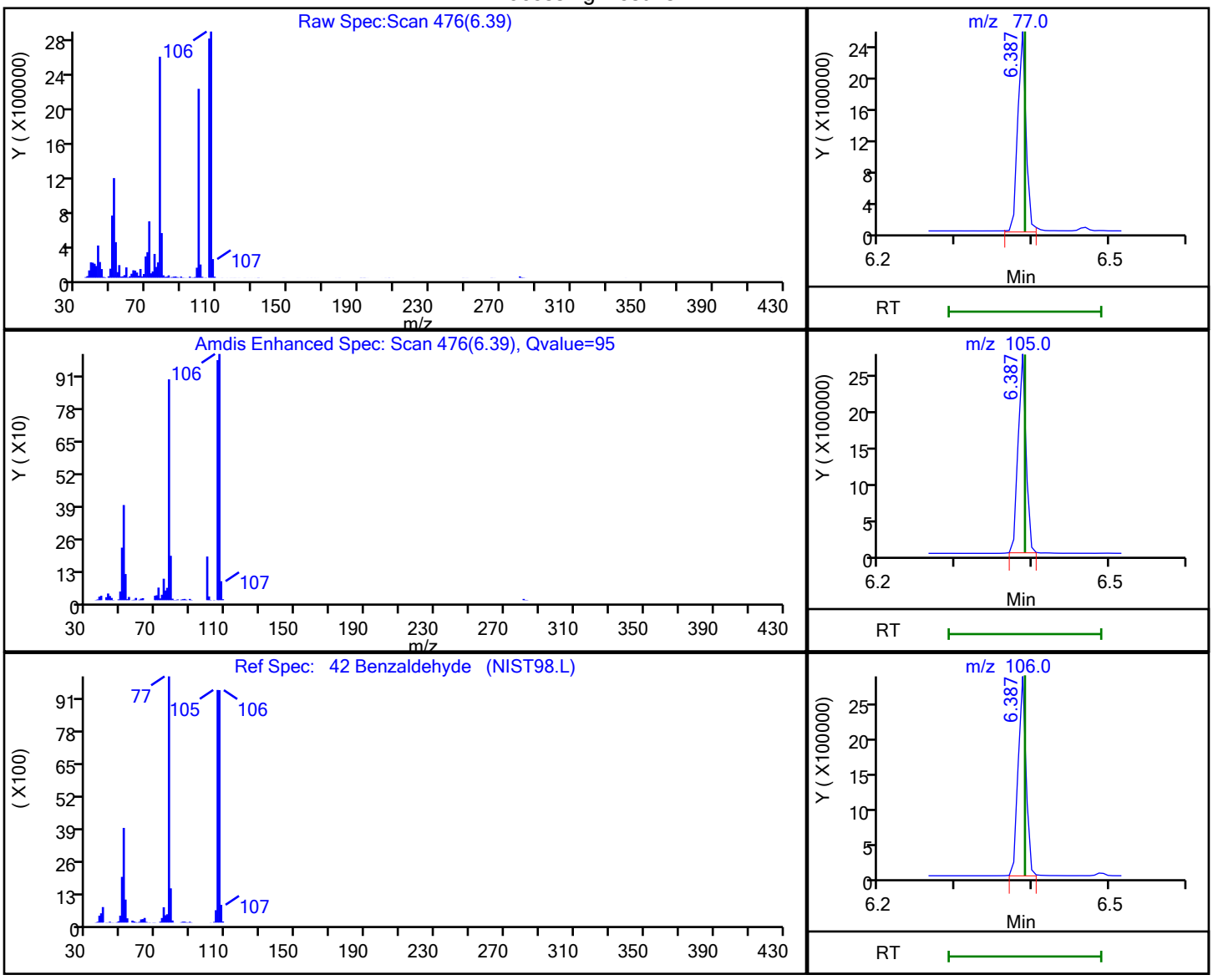
User Disabled Compound Report

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\10.D
Injection Date: 26-Jul-2023 11:48:30 Instrument ID: A4AG2
Lims ID: std9 l1lvi
Client ID:
Operator ID: ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL
Column: 5% phenyl (0.18 mm) Detector MS SCAN

42 Benzaldehyde, CAS: 100-52-7

Processing Results



RT	Mass	Response	Amount
6.39	77.00	1870188	NaN
6.39	105.00	1960070	
6.39	106.00	2019944	

Reviewer: KDZ4, 26-Jul-2023 12:22:29 -04:00:00 (UTC)
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

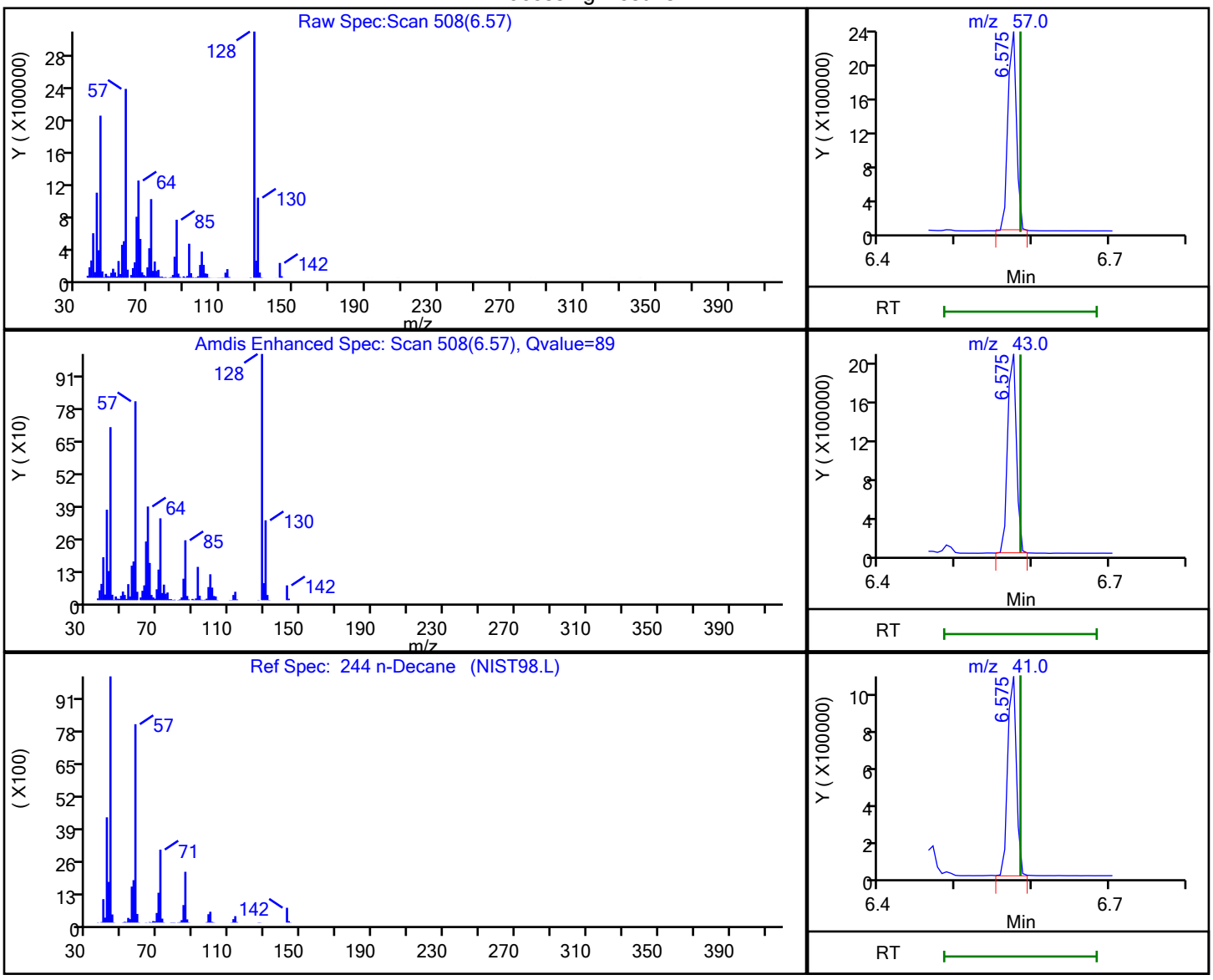
User Disabled Compound Report

Eurofins Cleveland

Data File:	\\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\10.D				
Injection Date:	26-Jul-2023 11:48:30	Instrument ID:	A4AG2		
Lims ID:	std9 l1lvi				
Client ID:					
Operator ID:		ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

244 n-Decane, CAS: 124-18-5

Processing Results



RT	Mass	Response	Amount
6.57	57.00	1826916	2204.6102
6.57	43.00	1621357	
6.57	41.00	835566	
6.57	71.00	740124	

Reviewer: KDZ4, 26-Jul-2023 12:23:01 -04:00:00 (UTC)

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

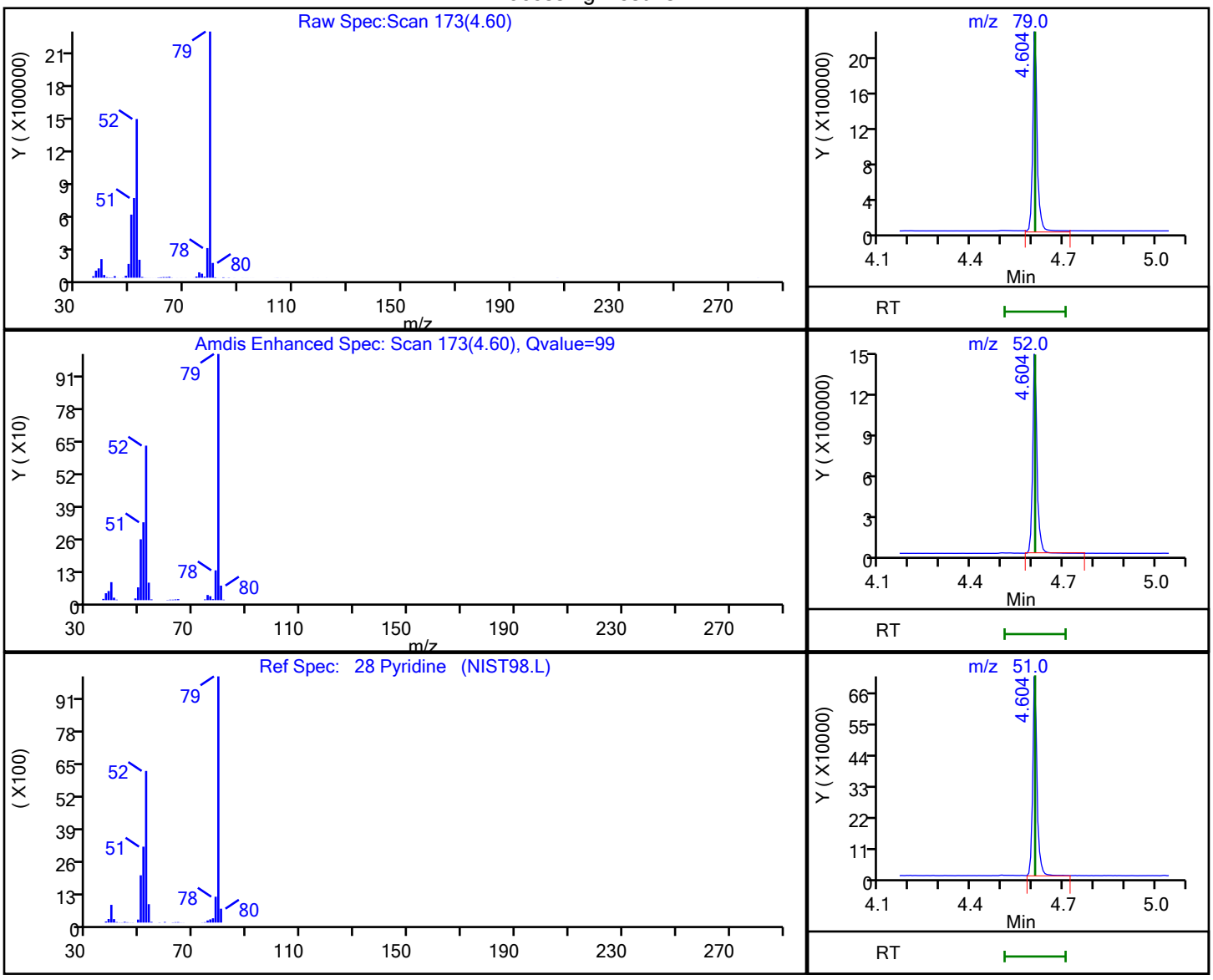
User Disabled Compound Report

Eurofins Cleveland

Data File:	\\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\10.D				
Injection Date:	26-Jul-2023 11:48:30	Instrument ID:	A4AG2		
Lims ID:	std9 l1lvi				
Client ID:					
Operator ID:		ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

28 Pyridine, CAS: 110-86-1

Processing Results



RT	Mass	Response	Amount
4.60	79.00	2195518	5224.9610
4.60	52.00	1402284	
4.60	51.00	702584	

Reviewer: KDZ4, 26-Jul-2023 12:16:25 -04:00:00 (UTC)

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

Calibration / 1,4-Dioxane

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

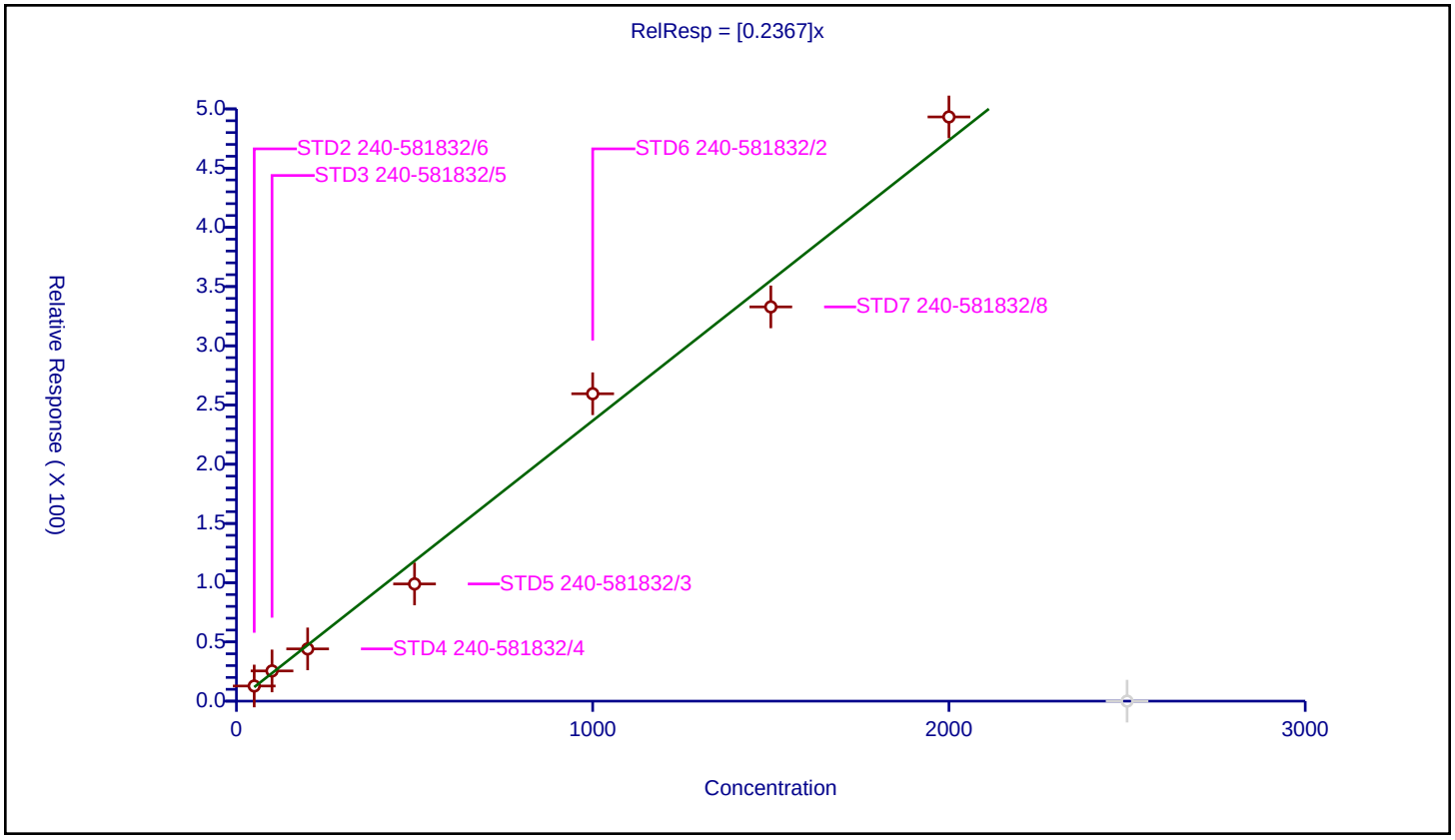
Curve Coefficients

Intercept:	0
Slope:	0.2367

Error Coefficients

Standard Error:	171000
Relative Standard Error:	9.9
Correlation Coefficient:	0.978
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581832/6	50.0	12.773044	400.0	237187.0	0.255461	Y
2	STD3 240-581832/5	100.0	25.519247	400.0	235148.0	0.255192	Y
3	STD4 240-581832/4	200.0	44.111925	400.0	236444.0	0.22056	Y
4	STD5 240-581832/3	500.0	98.95579	400.0	220741.0	0.197912	Y
5	STD6 240-581832/2	1000.0	259.510566	400.0	237131.0	0.259511	Y
6	STD7 240-581832/8	1500.0	332.83557	400.0	237596.0	0.22189	Y
7	STD8 240-581832/9	2000.0	493.199148	400.0	268981.0	0.2466	Y
8	STD9 240-581832/10	2500.0	0.0	400.0	253743.0	0.0	N



8/12/2023
10:47 AM

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

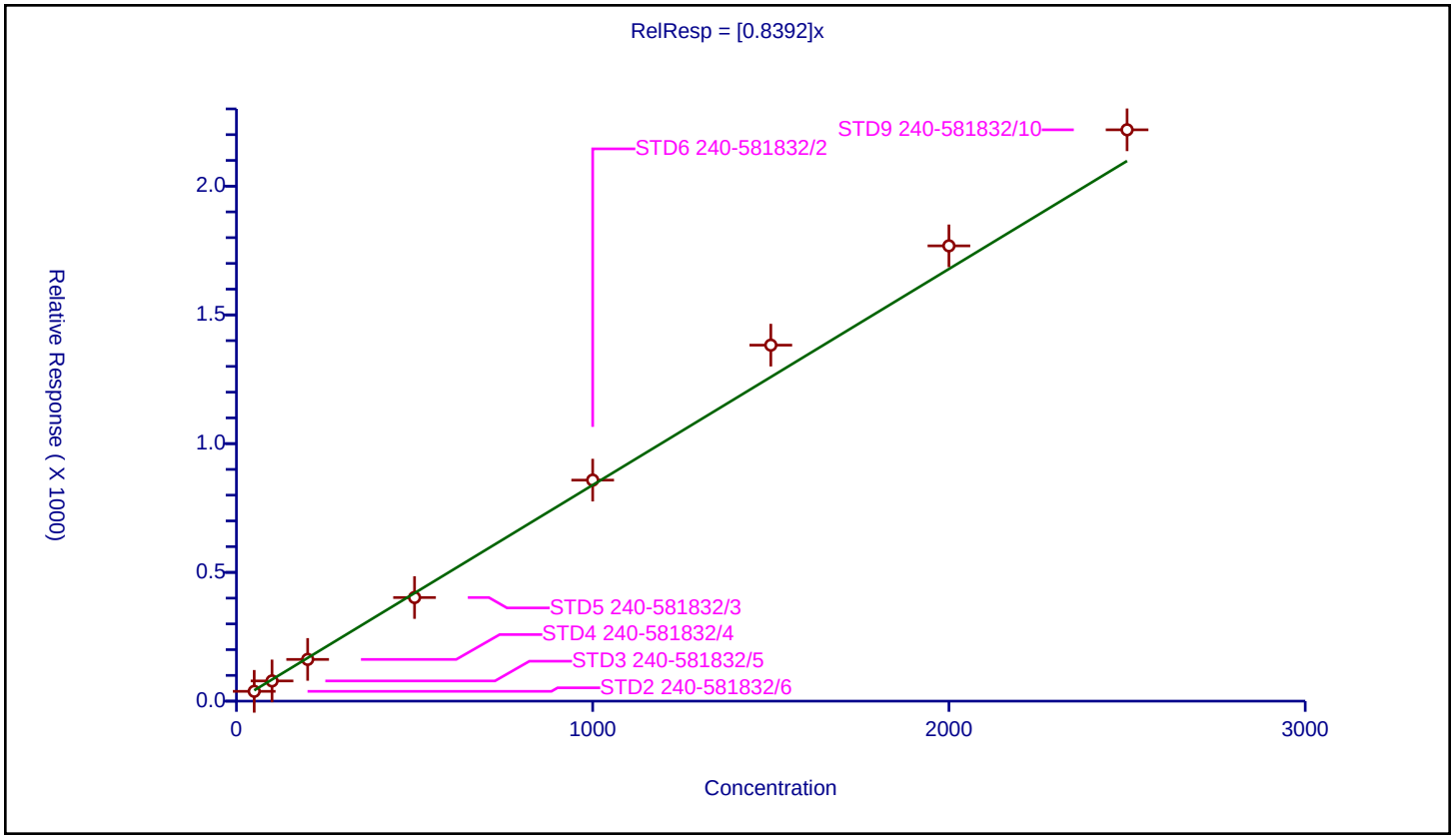
Curve Coefficients

Intercept:	0
Slope:	0.8392

Error Coefficients

Standard Error:	791000
Relative Standard Error:	6.8
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581832/6	50.0	38.118447	400.0	237187.0	0.762369	Y
2	STD3 240-581832/5	100.0	78.427203	400.0	235148.0	0.784272	Y
3	STD4 240-581832/4	200.0	162.034139	400.0	236444.0	0.810171	Y
4	STD5 240-581832/3	500.0	402.44993	400.0	220741.0	0.8049	Y
5	STD6 240-581832/2	1000.0	858.328941	400.0	237131.0	0.858329	Y
6	STD7 240-581832/8	1500.0	1382.56873	400.0	237596.0	0.921712	Y
7	STD8 240-581832/9	2000.0	1768.18437	400.0	268981.0	0.884092	Y
8	STD9 240-581832/10	2500.0	2218.808795	400.0	253743.0	0.887524	Y



Calibration / Pyridine

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

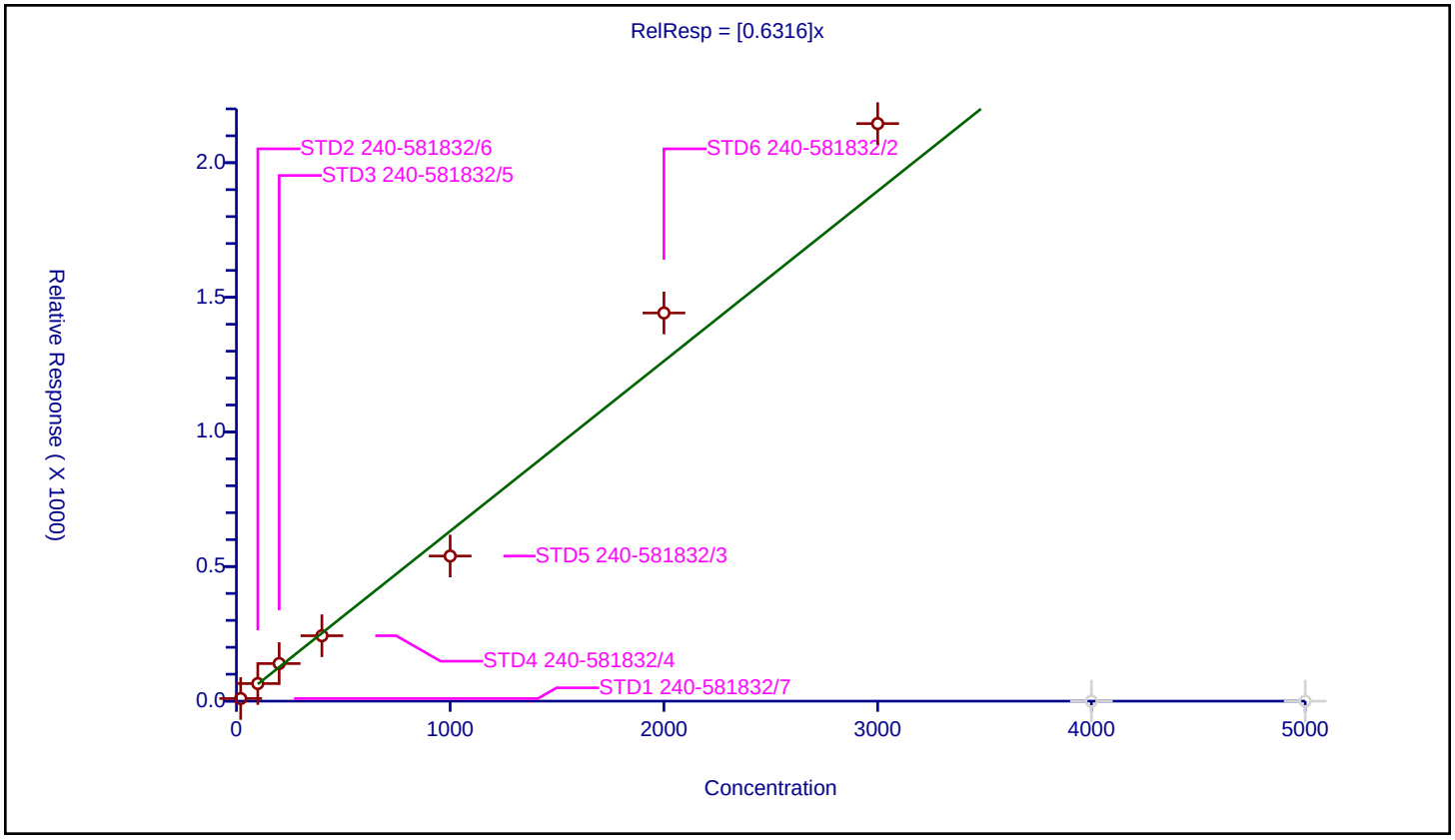
Curve Coefficients

Intercept:	0
Slope:	0.6316

Error Coefficients

Standard Error:	641000
Relative Standard Error:	14.4
Correlation Coefficient:	0.991
Coefficient of Determination (Adjusted):	0.979

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 240-581832/7	20.0	9.744919	400.0	223419.0	0.487246	Y
2	STD2 240-581832/6	100.0	65.33579	400.0	237187.0	0.653358	Y
3	STD3 240-581832/5	200.0	139.675438	400.0	235148.0	0.698377	Y
4	STD4 240-581832/4	400.0	242.924329	400.0	236444.0	0.607311	Y
5	STD5 240-581832/3	1000.0	539.033528	400.0	220741.0	0.539034	Y
6	STD6 240-581832/2	2000.0	1441.901734	400.0	237131.0	0.720951	Y
7	STD7 240-581832/8	3000.0	2145.39302	400.0	237596.0	0.715131	Y
8	STD8 240-581832/9	4000.0	0.0	400.0	268981.0	0.0	N
9	STD9 240-581832/10	5000.0	0.0	400.0	253743.0	0.0	N



Calibration / 2-Fluorophenol

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

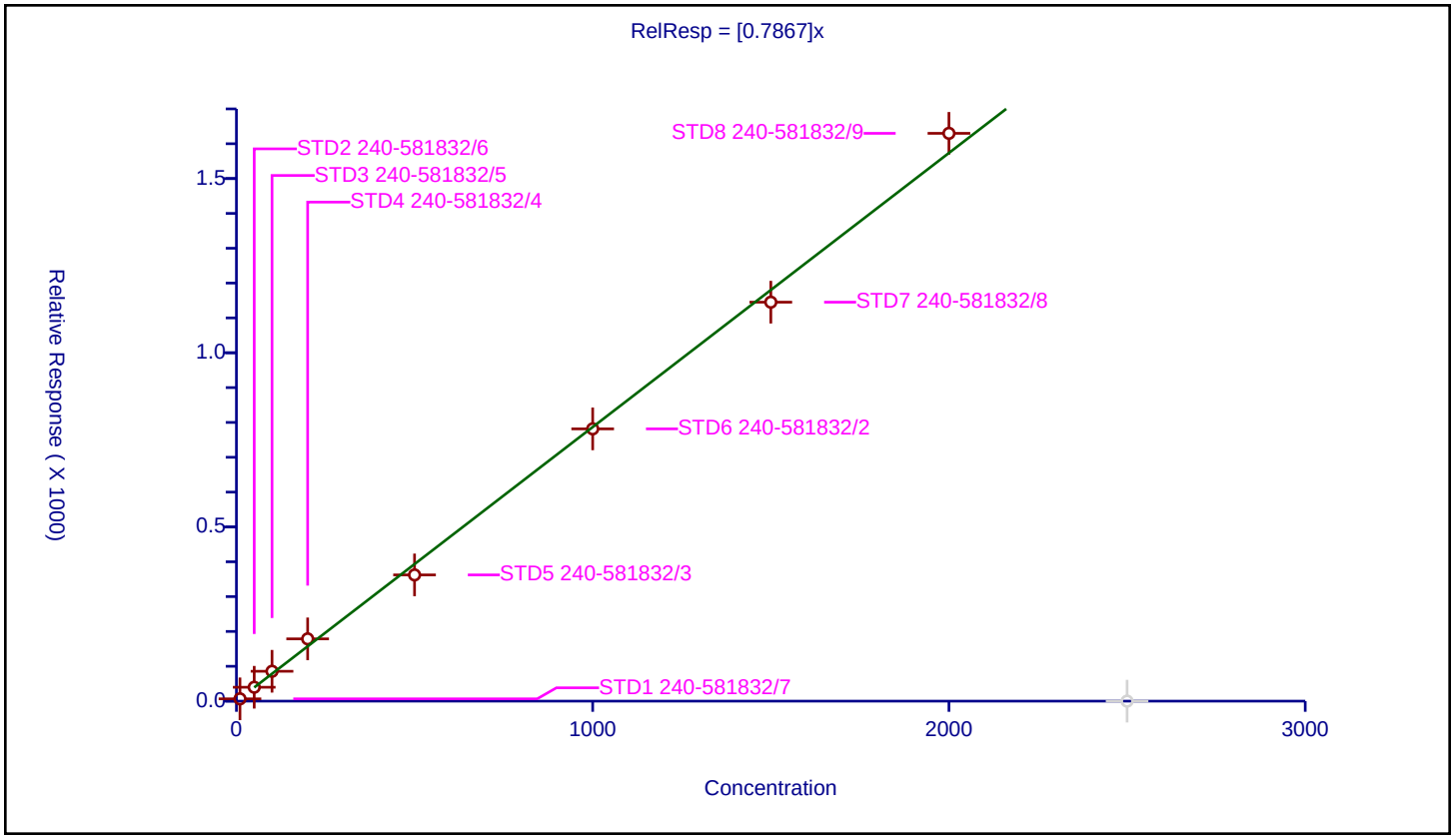
Curve Coefficients

Intercept:	0
Slope:	0.7867

Error Coefficients

Standard Error:	525000
Relative Standard Error:	9.3
Correlation Coefficient:	0.985
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 240-581832/7	10.0	6.611792	400.0	223419.0	0.661179	Y
2	STD2 240-581832/6	50.0	39.857159	400.0	237187.0	0.797143	Y
3	STD3 240-581832/5	100.0	85.736642	400.0	235148.0	0.857366	Y
4	STD4 240-581832/4	200.0	178.750148	400.0	236444.0	0.893751	Y
5	STD5 240-581832/3	500.0	362.308769	400.0	220741.0	0.724618	Y
6	STD6 240-581832/2	1000.0	781.485339	400.0	237131.0	0.781485	Y
7	STD7 240-581832/8	1500.0	1145.177528	400.0	237596.0	0.763452	Y
8	STD8 240-581832/9	2000.0	1629.80731	400.0	268981.0	0.814904	Y
9	STD9 240-581832/10	2500.0	0.0	400.0	253743.0	0.0	N



8/12/2023
10:47 AM

Calibration / Benzaldehyde

Curve Type:	Quadratic
Weighting:	None
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

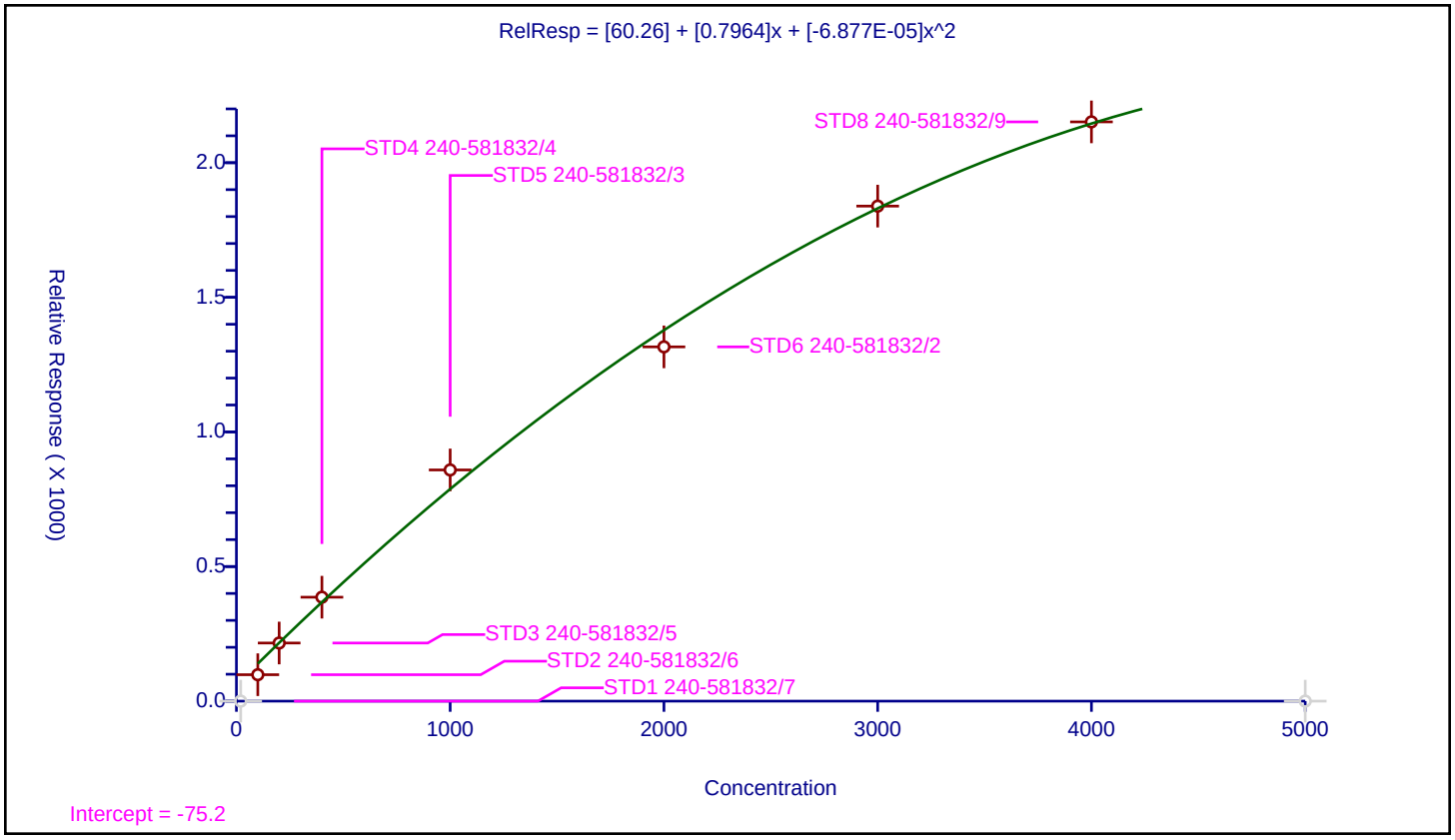
Curve Coefficients

Intercept:	60.26
Slope:	0.7964
Second Order:	-6.877E-05

Error Coefficients

Standard Error:	1020000
Relative Standard Error:	27.0
Correlation Coefficient:	0.989
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 240-581832/7	20.0	0.0	400.0	223419.0	0.0	N
2	STD2 240-581832/6	100.0	98.172328	400.0	237187.0	0.981723	Y
3	STD3 240-581832/5	200.0	215.947403	400.0	235148.0	1.079737	Y
4	STD4 240-581832/4	400.0	386.07535	400.0	236444.0	0.965188	Y
5	STD5 240-581832/3	1000.0	858.865367	400.0	220741.0	0.858865	Y
6	STD6 240-581832/2	2000.0	1316.021946	400.0	237131.0	0.658011	Y
7	STD7 240-581832/8	3000.0	1838.860924	400.0	237596.0	0.612954	Y
8	STD8 240-581832/9	4000.0	2151.683576	400.0	268981.0	0.537921	Y
9	STD9 240-581832/10	5000.0	0.0	400.0	253743.0	0.0	N



Calibration / Phenol-d5

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

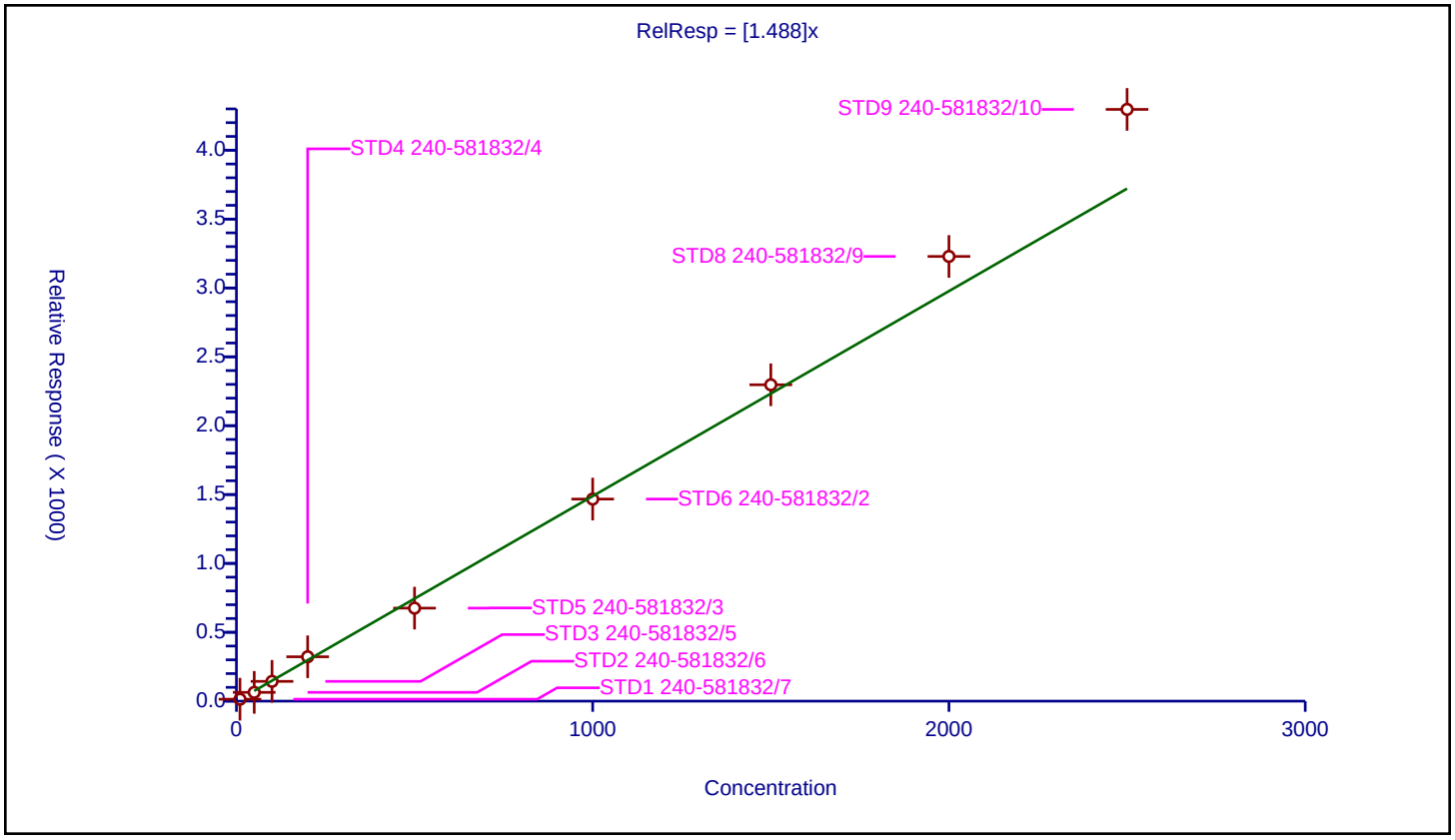
Curve Coefficients

Intercept:	0
Slope:	1.488

Error Coefficients

Standard Error:	1360000
Relative Standard Error:	9.6
Correlation Coefficient:	0.989
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 240-581832/7	10.0	13.939728	400.0	223419.0	1.393973	Y
2	STD2 240-581832/6	50.0	63.674653	400.0	237187.0	1.273493	Y
3	STD3 240-581832/5	100.0	143.669519	400.0	235148.0	1.436695	Y
4	STD4 240-581832/4	200.0	322.082184	400.0	236444.0	1.610411	Y
5	STD5 240-581832/3	500.0	675.292764	400.0	220741.0	1.350586	Y
6	STD6 240-581832/2	1000.0	1467.126609	400.0	237131.0	1.467127	Y
7	STD7 240-581832/8	1500.0	2296.978064	400.0	237596.0	1.531319	Y
8	STD8 240-581832/9	2000.0	3228.654812	400.0	268981.0	1.614327	Y
9	STD9 240-581832/10	2500.0	4296.246202	400.0	253743.0	1.718498	Y



Calibration / Phenol

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

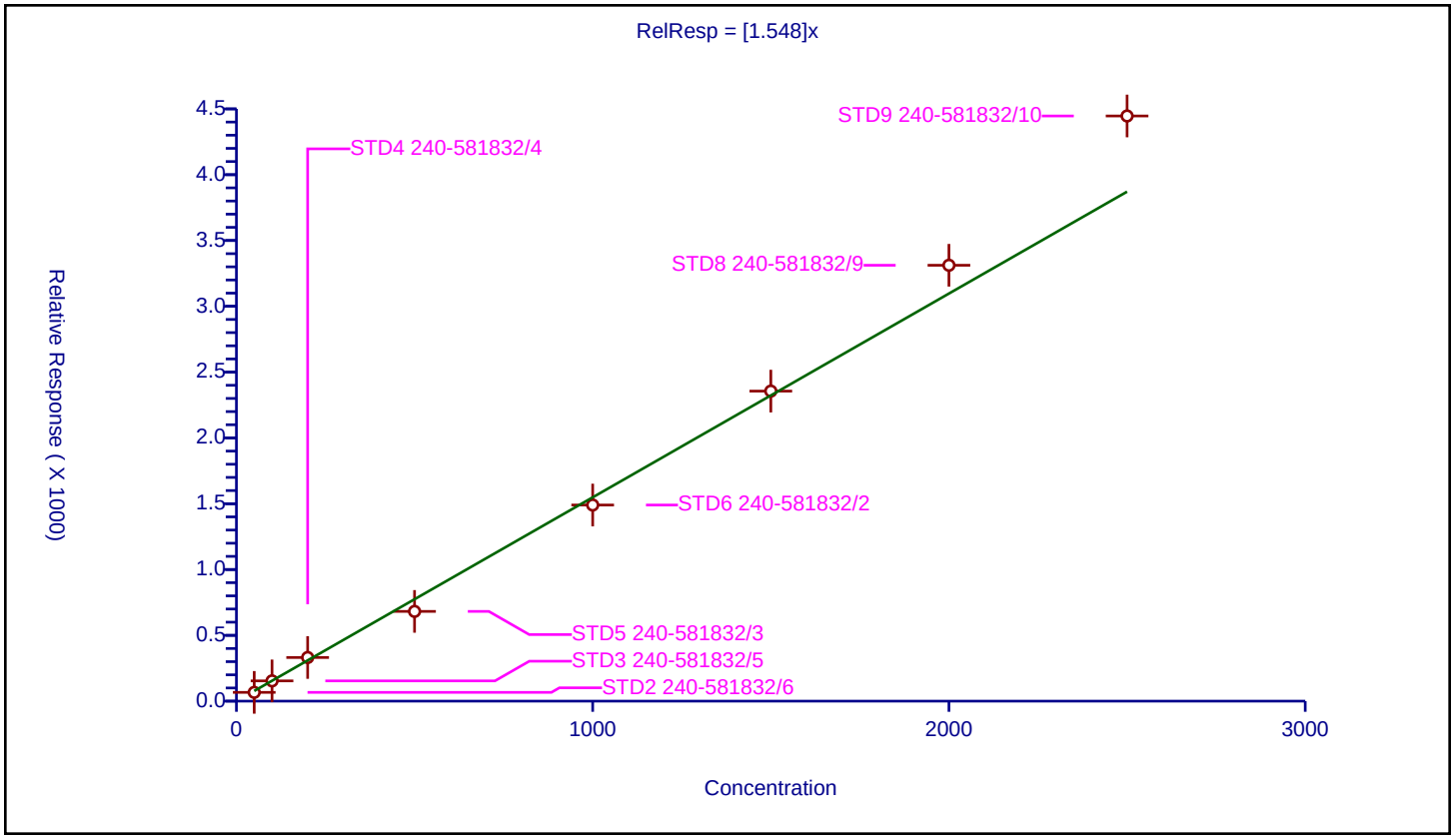
Curve Coefficients

Intercept:	0
Slope:	1.548

Error Coefficients

Standard Error:	1500000
Relative Standard Error:	9.8
Correlation Coefficient:	0.987
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581832/6	50.0	66.605674	400.0	237187.0	1.332113	Y
2	STD3 240-581832/5	100.0	153.937095	400.0	235148.0	1.539371	Y
3	STD4 240-581832/4	200.0	331.493292	400.0	236444.0	1.657466	Y
4	STD5 240-581832/3	500.0	681.785441	400.0	220741.0	1.363571	Y
5	STD6 240-581832/2	1000.0	1490.177159	400.0	237131.0	1.490177	Y
6	STD7 240-581832/8	1500.0	2355.71811	400.0	237596.0	1.570479	Y
7	STD8 240-581832/9	2000.0	3311.792283	400.0	268981.0	1.655896	Y
8	STD9 240-581832/10	2500.0	4446.174279	400.0	253743.0	1.77847	Y



Calibration / Aniline

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

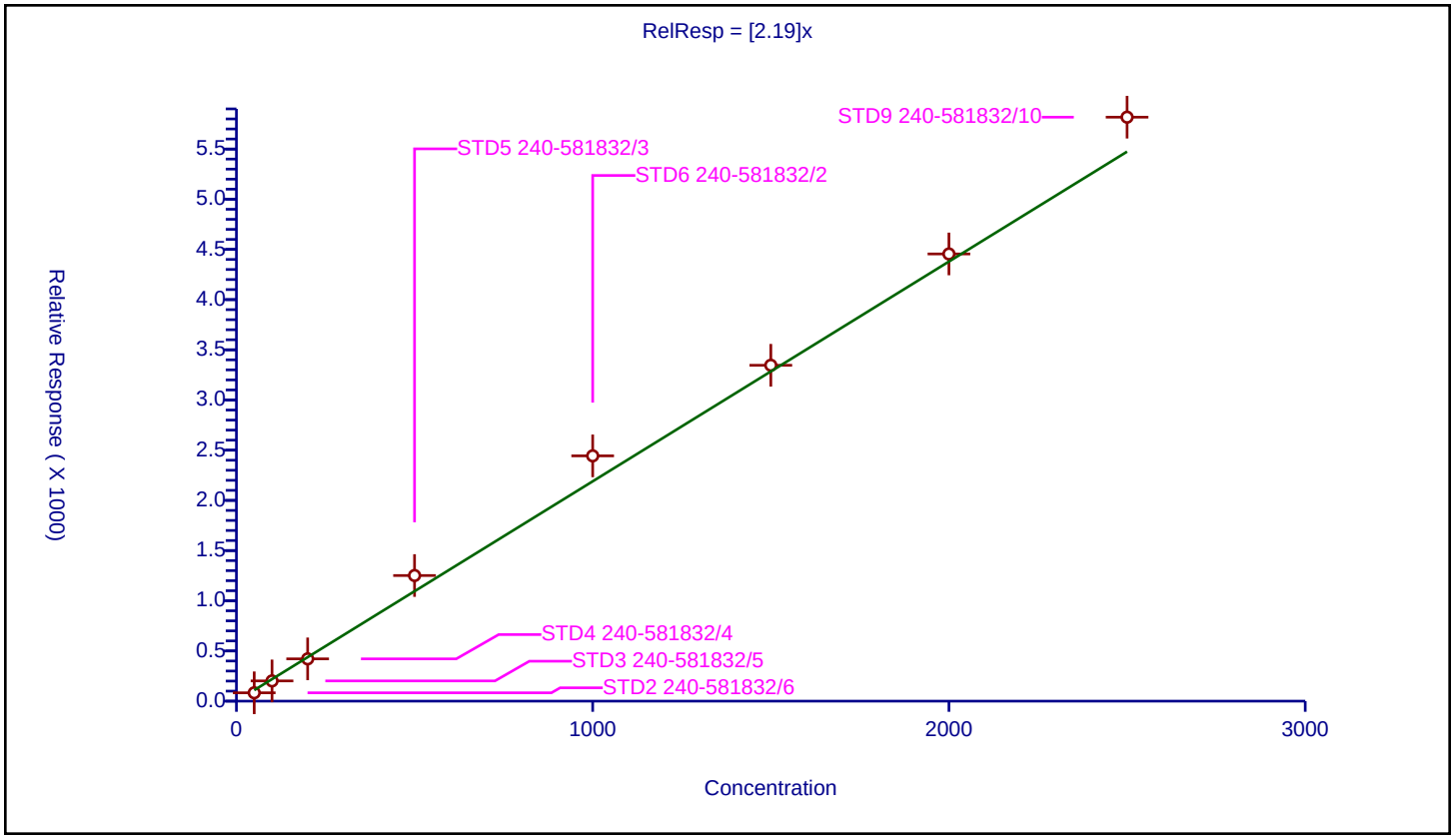
Curve Coefficients

Intercept:	0
Slope:	2.19

Error Coefficients

Standard Error:	2040000
Relative Standard Error:	12.2
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581832/6	50.0	83.178252	400.0	237187.0	1.663565	Y
2	STD3 240-581832/5	100.0	201.605797	400.0	235148.0	2.016058	Y
3	STD4 240-581832/4	200.0	421.10098	400.0	236444.0	2.105505	Y
4	STD5 240-581832/3	500.0	1251.550007	400.0	220741.0	2.5031	Y
5	STD6 240-581832/2	1000.0	2443.640013	400.0	237131.0	2.44364	Y
6	STD7 240-581832/8	1500.0	3346.058014	400.0	237596.0	2.230705	Y
7	STD8 240-581832/9	2000.0	4454.90648	400.0	268981.0	2.227453	Y
8	STD9 240-581832/10	2500.0	5817.509843	400.0	253743.0	2.327004	Y



8/12/2023
10:47 AM

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

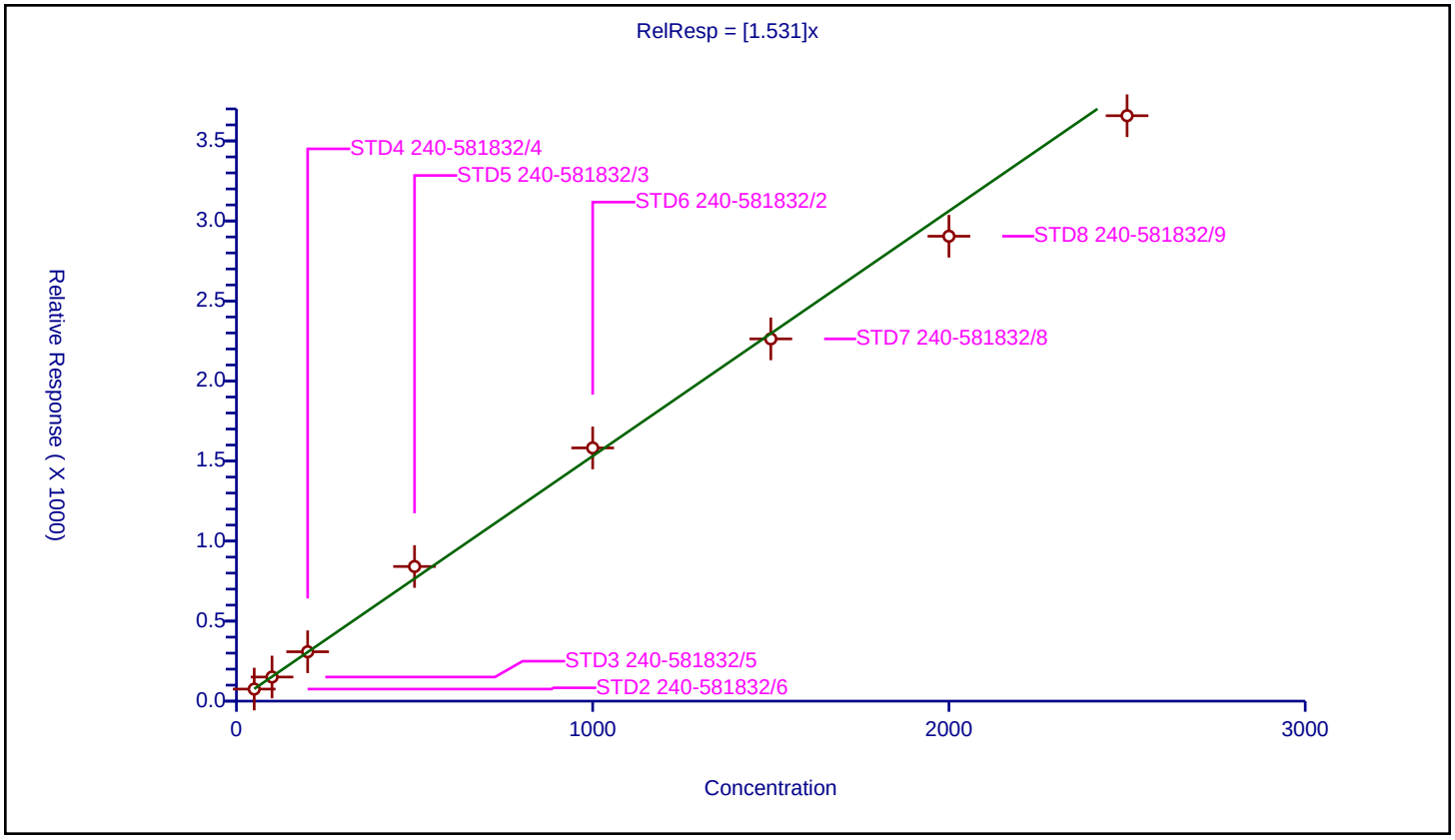
Curve Coefficients

Intercept:	0
Slope:	1.531

Error Coefficients

Standard Error:	1310000
Relative Standard Error:	4.8
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581832/6	50.0	75.489803	400.0	237187.0	1.509796	Y
2	STD3 240-581832/5	100.0	150.671067	400.0	235148.0	1.506711	Y
3	STD4 240-581832/4	200.0	308.538174	400.0	236444.0	1.542691	Y
4	STD5 240-581832/3	500.0	841.17767	400.0	220741.0	1.682355	Y
5	STD6 240-581832/2	1000.0	1581.993076	400.0	237131.0	1.581993	Y
6	STD7 240-581832/8	1500.0	2263.221603	400.0	237596.0	1.508814	Y
7	STD8 240-581832/9	2000.0	2904.50701	400.0	268981.0	1.452254	Y
8	STD9 240-581832/10	2500.0	3657.406116	400.0	253743.0	1.462962	Y



Calibration / 2-Chlorophenol

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

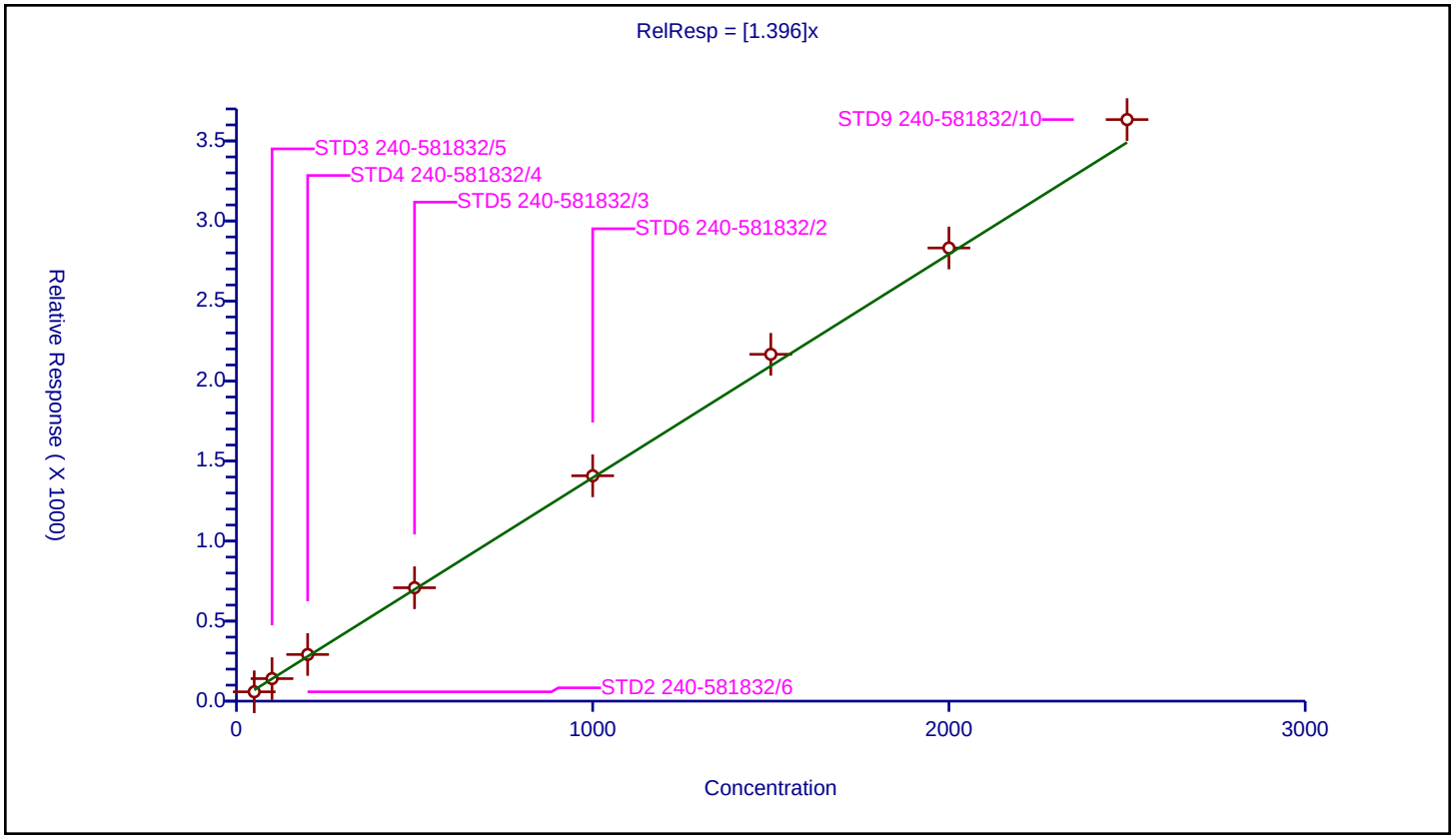
Curve Coefficients

Intercept:	0
Slope:	1.396

Error Coefficients

Standard Error:	1280000
Relative Standard Error:	6.8
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581832/6	50.0	58.365762	400.0	237187.0	1.167315	Y
2	STD3 240-581832/5	100.0	140.629731	400.0	235148.0	1.406297	Y
3	STD4 240-581832/4	200.0	291.517653	400.0	236444.0	1.457588	Y
4	STD5 240-581832/3	500.0	708.412121	400.0	220741.0	1.416824	Y
5	STD6 240-581832/2	1000.0	1407.984616	400.0	237131.0	1.407985	Y
6	STD7 240-581832/8	1500.0	2166.871496	400.0	237596.0	1.444581	Y
7	STD8 240-581832/9	2000.0	2831.016317	400.0	268981.0	1.415508	Y
8	STD9 240-581832/10	2500.0	3633.257272	400.0	253743.0	1.453303	Y



Calibration / n-Decane

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

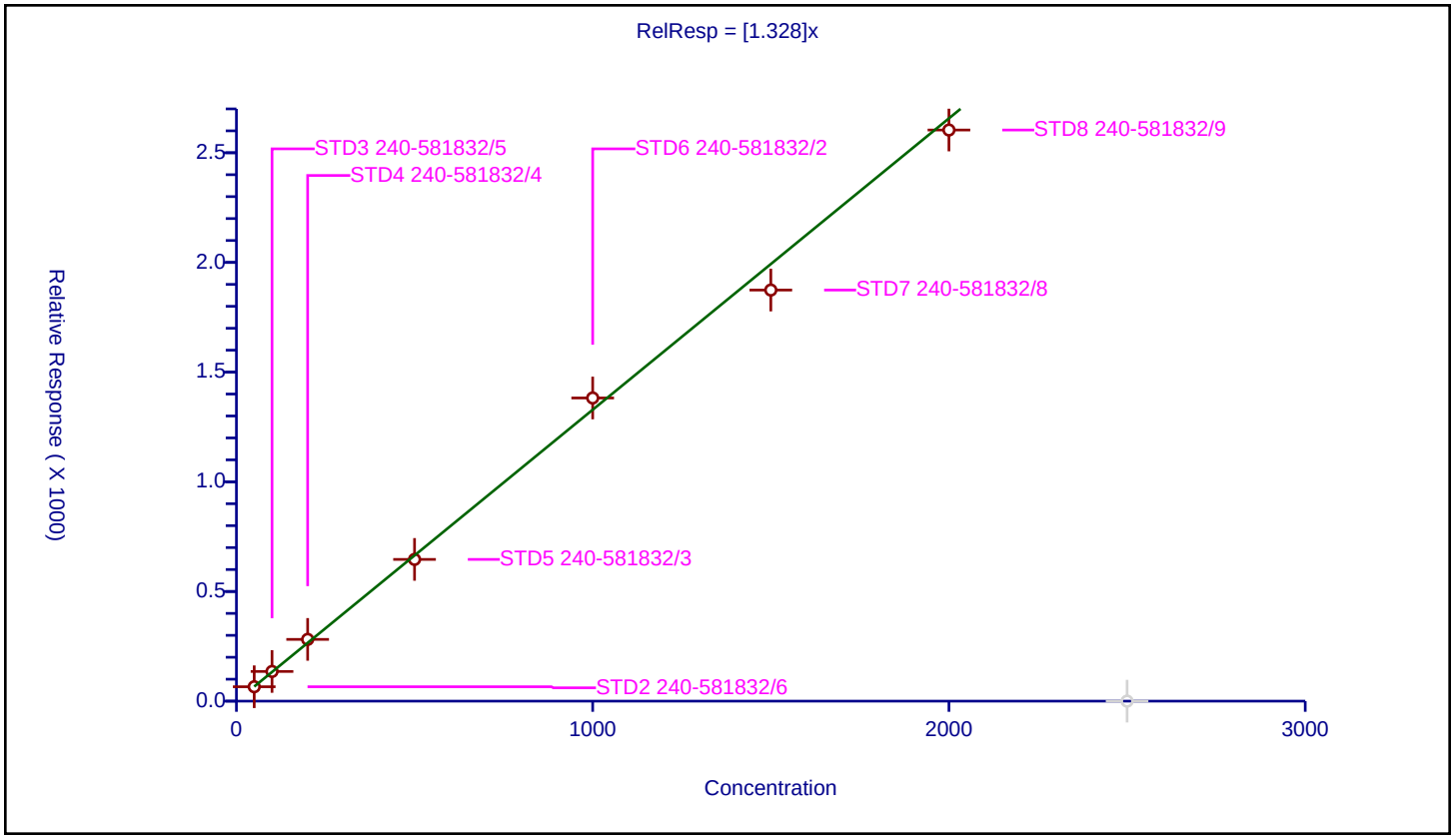
Curve Coefficients

Intercept:	0
Slope:	1.328

Error Coefficients

Standard Error:	924000
Relative Standard Error:	4.2
Correlation Coefficient:	0.989
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581832/6	50.0	65.588755	400.0	237187.0	1.311775	Y
2	STD3 240-581832/5	100.0	135.364962	400.0	235148.0	1.35365	Y
3	STD4 240-581832/4	200.0	281.526281	400.0	236444.0	1.407631	Y
4	STD5 240-581832/3	500.0	646.12555	400.0	220741.0	1.292251	Y
5	STD6 240-581832/2	1000.0	1382.113684	400.0	237131.0	1.382114	Y
6	STD7 240-581832/8	1500.0	1874.041651	400.0	237596.0	1.249361	Y
7	STD8 240-581832/9	2000.0	2603.74822	400.0	268981.0	1.301874	Y
8	STD9 240-581832/10	2500.0	0.0	400.0	253743.0	0.0	N



8/12/2023
10:47 AM

Calibration / 1,3-Dichlorobenzene

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

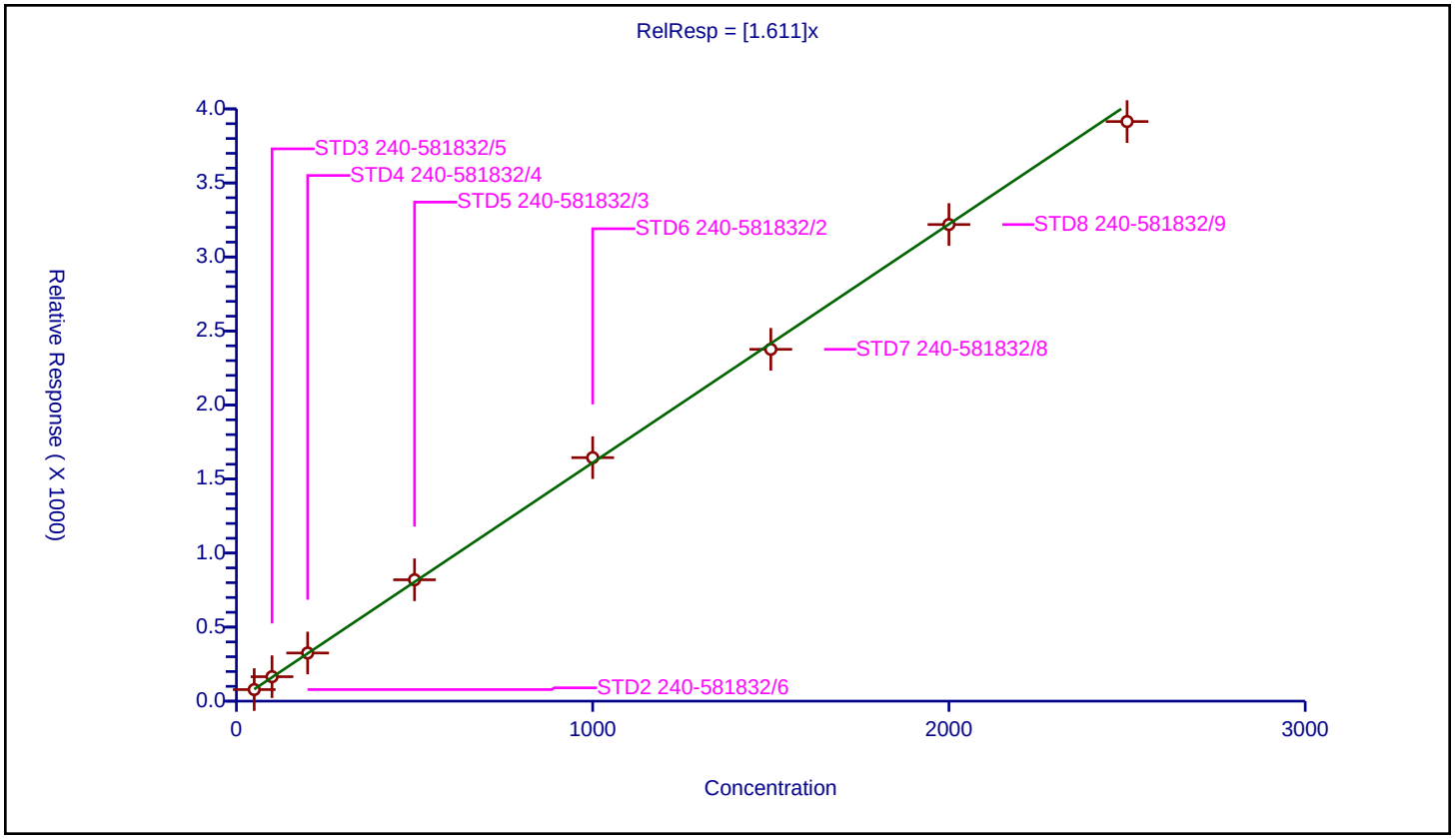
Curve Coefficients

Intercept:	0
Slope:	1.611

Error Coefficients

Standard Error:	1410000
Relative Standard Error:	2.2
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581832/6	50.0	78.211706	400.0	237187.0	1.564234	Y
2	STD3 240-581832/5	100.0	165.123242	400.0	235148.0	1.651232	Y
3	STD4 240-581832/4	200.0	325.223732	400.0	236444.0	1.626119	Y
4	STD5 240-581832/3	500.0	819.622997	400.0	220741.0	1.639246	Y
5	STD6 240-581832/2	1000.0	1644.564397	400.0	237131.0	1.644564	Y
6	STD7 240-581832/8	1500.0	2376.242024	400.0	237596.0	1.584161	Y
7	STD8 240-581832/9	2000.0	3218.887579	400.0	268981.0	1.609444	Y
8	STD9 240-581832/10	2500.0	3914.630157	400.0	253743.0	1.565852	Y



Calibration / 1,4-Dichlorobenzene

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

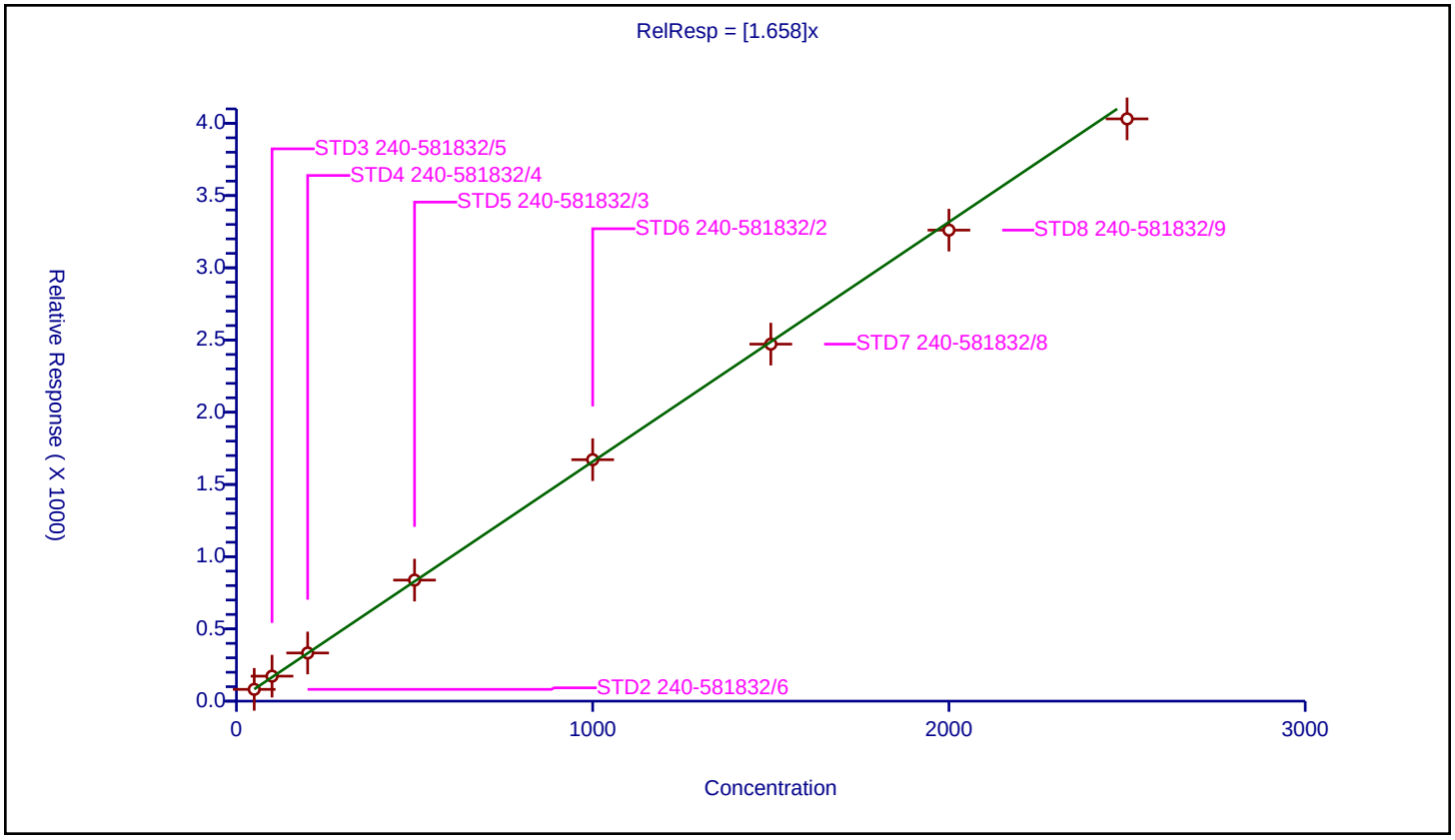
Curve Coefficients

Intercept:	0
Slope:	1.658

Error Coefficients

Standard Error:	1450000
Relative Standard Error:	2.2
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581832/6	50.0	81.582886	400.0	237187.0	1.631658	Y
2	STD3 240-581832/5	100.0	173.072278	400.0	235148.0	1.730723	Y
3	STD4 240-581832/4	200.0	333.367732	400.0	236444.0	1.666839	Y
4	STD5 240-581832/3	500.0	837.992036	400.0	220741.0	1.675984	Y
5	STD6 240-581832/2	1000.0	1671.489599	400.0	237131.0	1.67149	Y
6	STD7 240-581832/8	1500.0	2471.475951	400.0	237596.0	1.647651	Y
7	STD8 240-581832/9	2000.0	3260.726966	400.0	268981.0	1.630363	Y
8	STD9 240-581832/10	2500.0	4030.799667	400.0	253743.0	1.61232	Y



Calibration / Benzyl alcohol

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

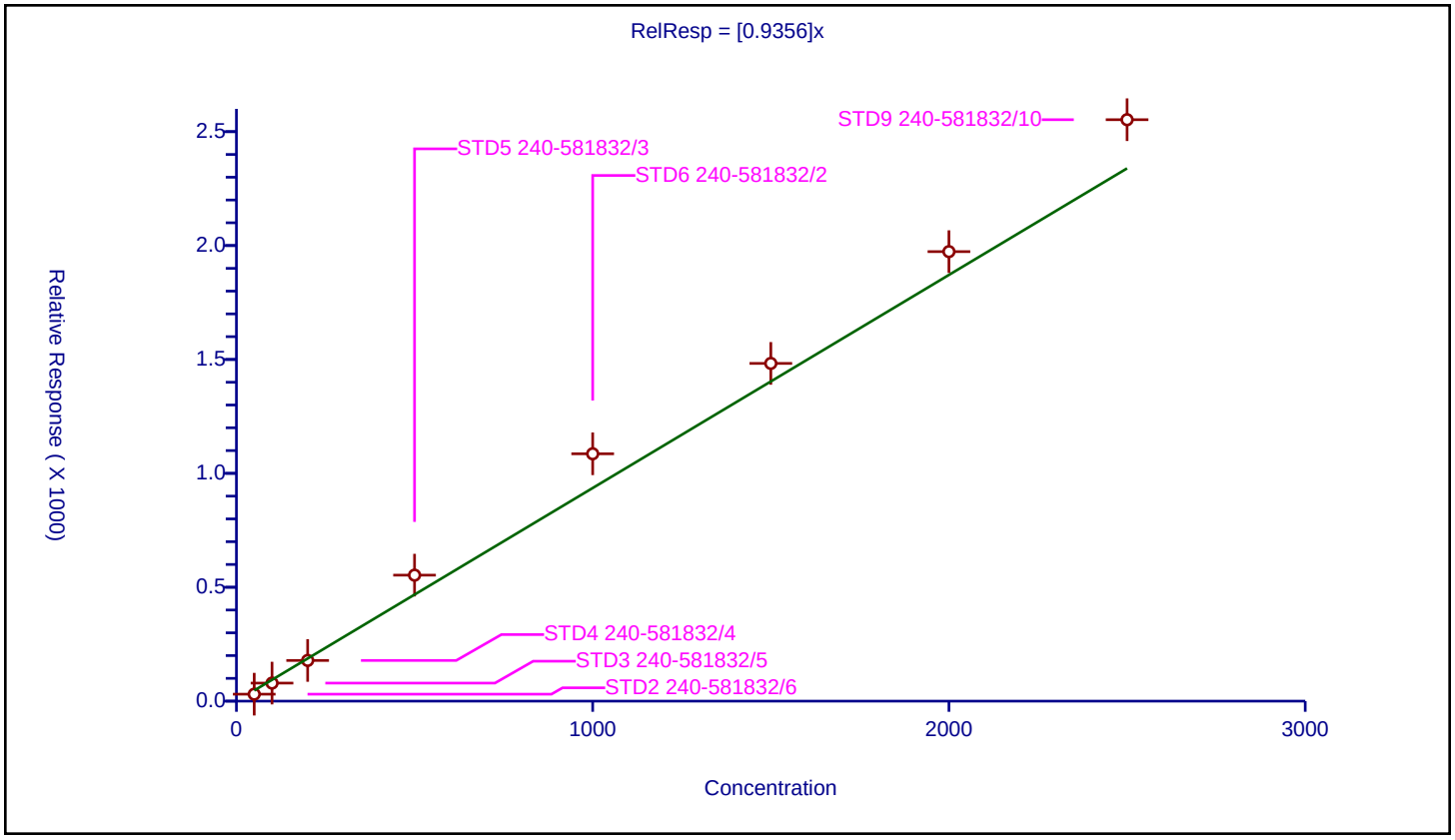
Curve Coefficients

Intercept:	0
Slope:	0.9356

Error Coefficients

Standard Error:	899000
Relative Standard Error:	17.7
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.965

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581832/6	50.0	30.529498	400.0	237187.0	0.61059	Y
2	STD3 240-581832/5	100.0	79.242009	400.0	235148.0	0.79242	Y
3	STD4 240-581832/4	200.0	178.660486	400.0	236444.0	0.893302	Y
4	STD5 240-581832/3	500.0	553.126062	400.0	220741.0	1.106252	Y
5	STD6 240-581832/2	1000.0	1085.916224	400.0	237131.0	1.085916	Y
6	STD7 240-581832/8	1500.0	1482.651223	400.0	237596.0	0.988434	Y
7	STD8 240-581832/9	2000.0	1973.421171	400.0	268981.0	0.986711	Y
8	STD9 240-581832/10	2500.0	2552.500759	400.0	253743.0	1.021	Y



8/12/2023
10:47 AM

Calibration / 1,2-Dichlorobenzene

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

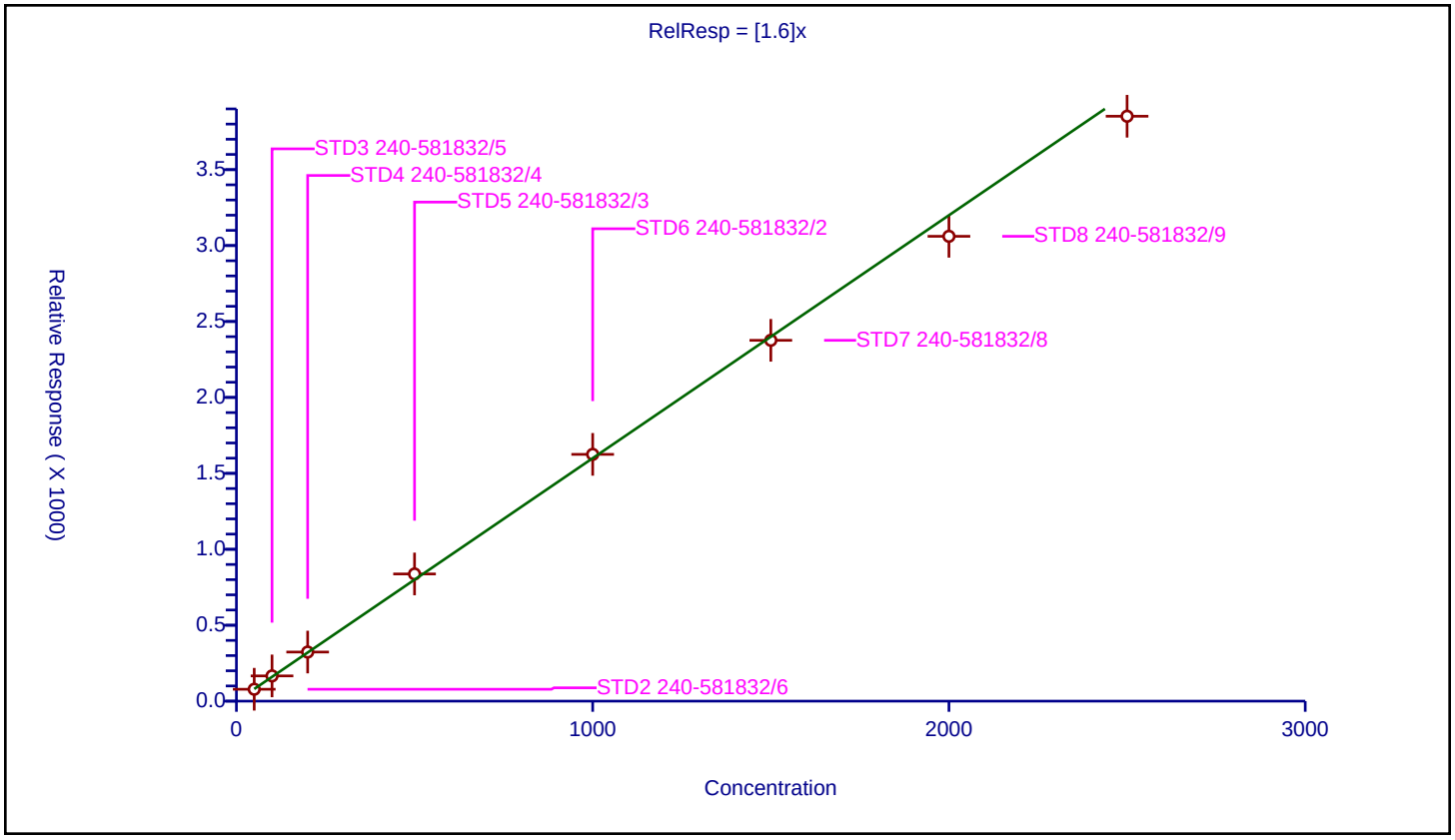
Curve Coefficients

Intercept:	0
Slope:	1.6

Error Coefficients

Standard Error:	1380000
Relative Standard Error:	3.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581832/6	50.0	78.248808	400.0	237187.0	1.564976	Y
2	STD3 240-581832/5	100.0	166.174494	400.0	235148.0	1.661745	Y
3	STD4 240-581832/4	200.0	323.263014	400.0	236444.0	1.616315	Y
4	STD5 240-581832/3	500.0	837.482842	400.0	220741.0	1.674966	Y
5	STD6 240-581832/2	1000.0	1625.042698	400.0	237131.0	1.625043	Y
6	STD7 240-581832/8	1500.0	2376.093874	400.0	237596.0	1.584063	Y
7	STD8 240-581832/9	2000.0	3060.885341	400.0	268981.0	1.530443	Y
8	STD9 240-581832/10	2500.0	3851.637287	400.0	253743.0	1.540655	Y



8/12/2023
10:47 AM

Calibration / 2-Methylphenol

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

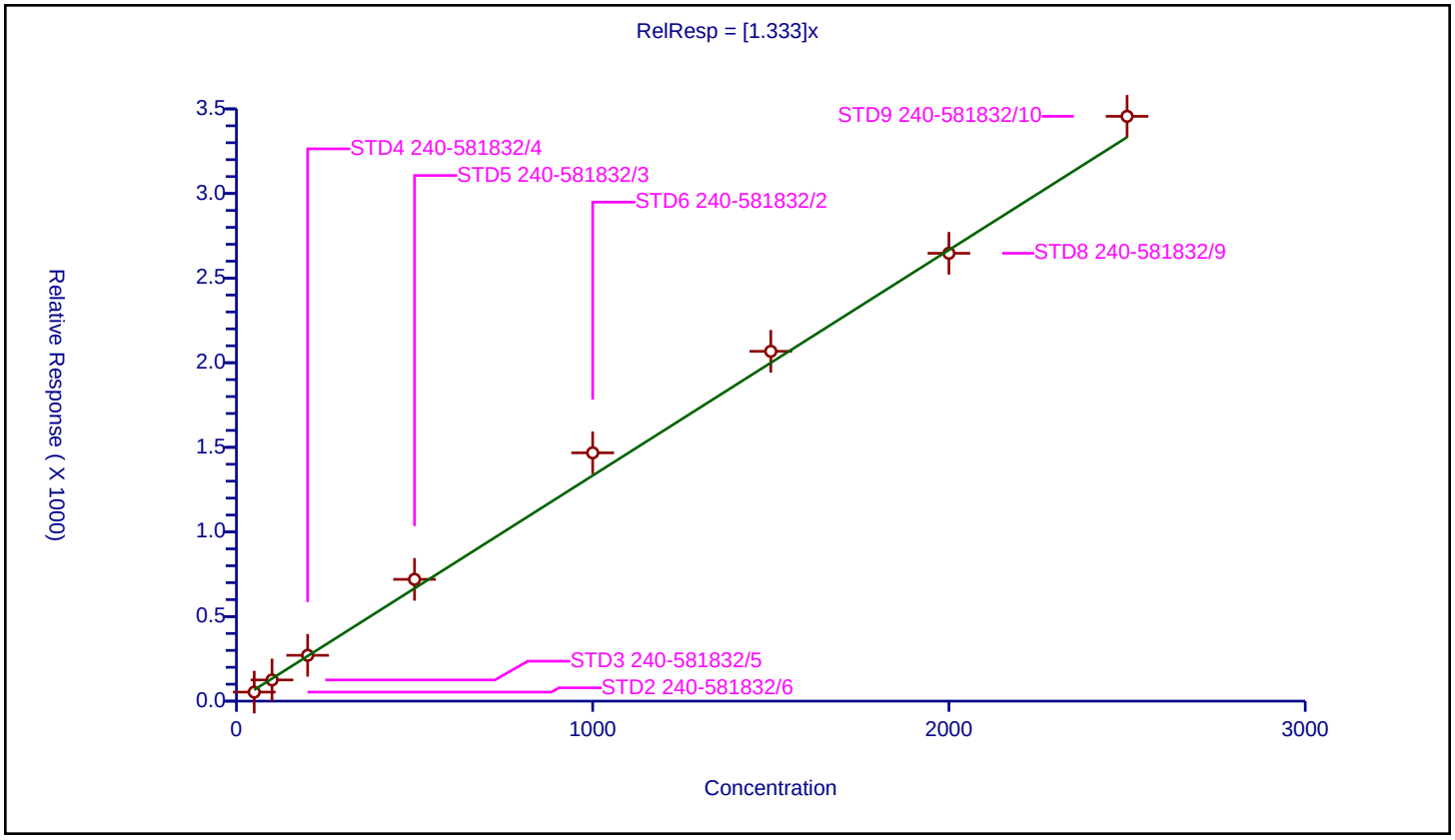
Curve Coefficients

Intercept:	0
Slope:	1.333

Error Coefficients

Standard Error:	1220000
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	STD2 240-581832/6	50.0	53.409335	400.0	237187.0	1.068187	Y
2	STD3 240-581832/5	100.0	125.177335	400.0	235148.0	1.251773	Y
3	STD4 240-581832/4	200.0	270.829456	400.0	236444.0	1.354147	Y
4	STD5 240-581832/3	500.0	719.66694	400.0	220741.0	1.439334	Y
5	STD6 240-581832/2	1000.0	1467.467349	400.0	237131.0	1.467467	Y
6	STD7 240-581832/8	1500.0	2067.315948	400.0	237596.0	1.378211	Y
7	STD8 240-581832/9	2000.0	2646.670211	400.0	268981.0	1.323335	Y
8	STD9 240-581832/10	2500.0	3456.15682	400.0	253743.0	1.382463	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

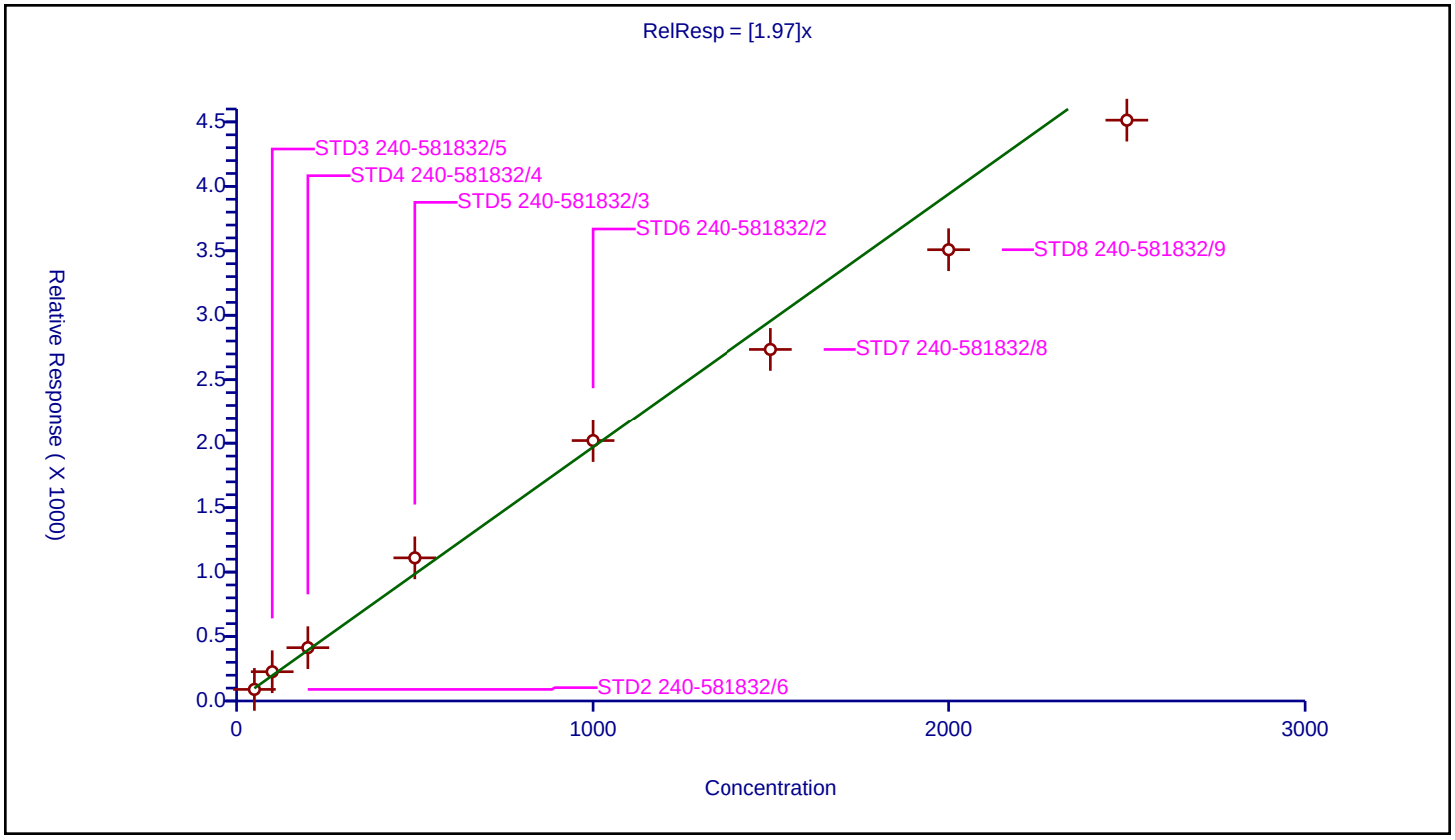
Curve Coefficients

Intercept:	0
Slope:	1.97

Error Coefficients

Standard Error:	1610000
Relative Standard Error:	10.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581832/6	50.0	89.917238	400.0	237187.0	1.798345	Y
2	STD3 240-581832/5	100.0	226.949836	400.0	235148.0	2.269498	Y
3	STD4 240-581832/4	200.0	413.61168	400.0	236444.0	2.068058	Y
4	STD5 240-581832/3	500.0	1110.283998	400.0	220741.0	2.220568	Y
5	STD6 240-581832/2	1000.0	2020.468011	400.0	237131.0	2.020468	Y
6	STD7 240-581832/8	1500.0	2734.892843	400.0	237596.0	1.823262	Y
7	STD8 240-581832/9	2000.0	3508.499113	400.0	268981.0	1.75425	Y
8	STD9 240-581832/10	2500.0	4513.503821	400.0	253743.0	1.805402	Y



8/12/2023
10:47 AM

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

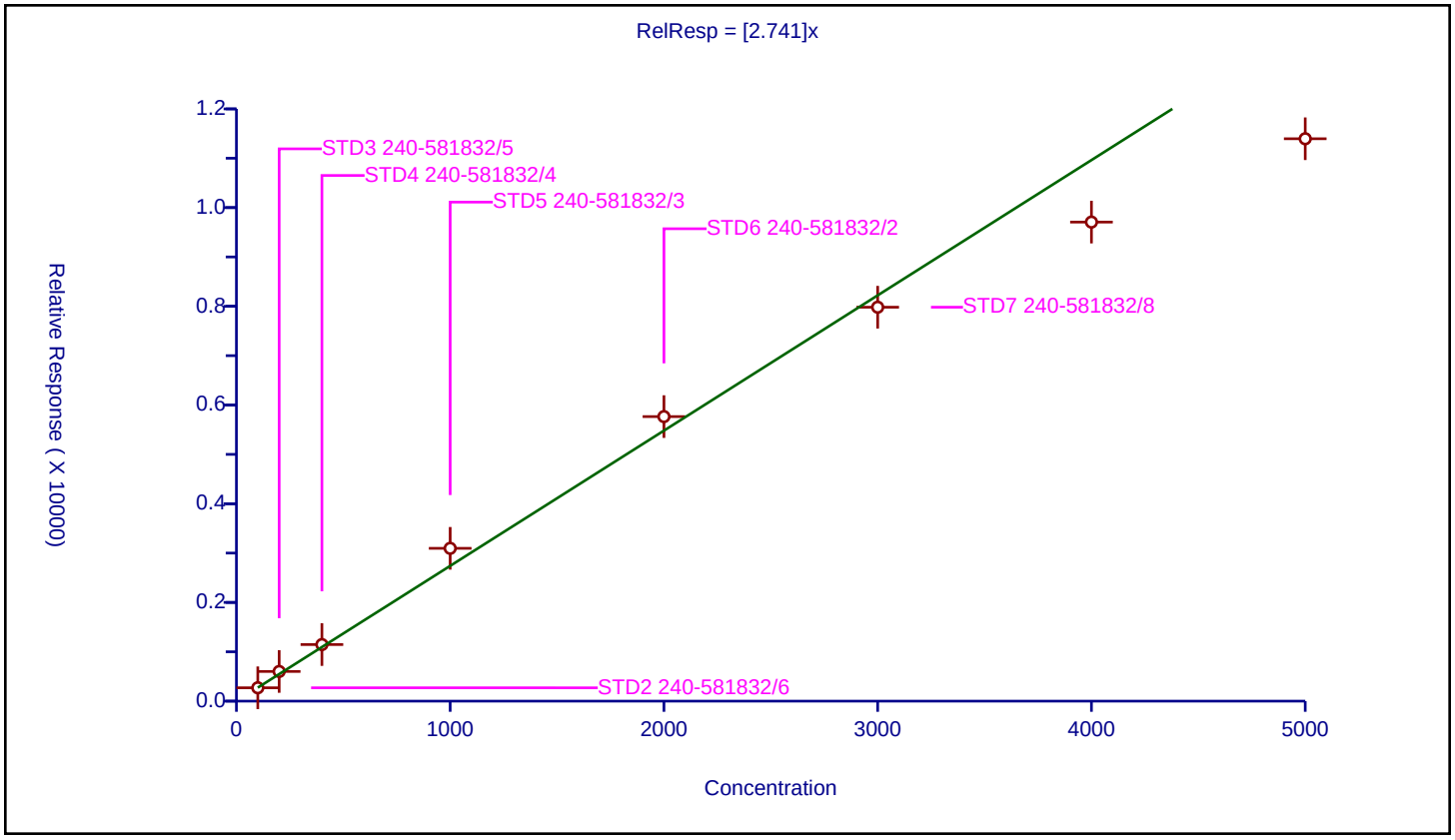
Curve Coefficients

Intercept:	0
Slope:	2.741

Error Coefficients

Standard Error:	4340000
Relative Standard Error:	10.2
Correlation Coefficient:	0.992
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581832/6	100.0	270.817541	400.0	237187.0	2.708175	Y
2	STD3 240-581832/5	200.0	601.190739	400.0	235148.0	3.005954	Y
3	STD4 240-581832/4	400.0	1146.235049	400.0	236444.0	2.865588	Y
4	STD5 240-581832/3	1000.0	3096.367236	400.0	220741.0	3.096367	Y
5	STD6 240-581832/2	2000.0	5765.223442	400.0	237131.0	2.882612	Y
6	STD7 240-581832/8	3000.0	7981.987912	400.0	237596.0	2.660663	Y
7	STD8 240-581832/9	4000.0	9706.600838	400.0	268981.0	2.42665	Y
8	STD9 240-581832/10	5000.0	11394.845966	400.0	253743.0	2.278969	Y



Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

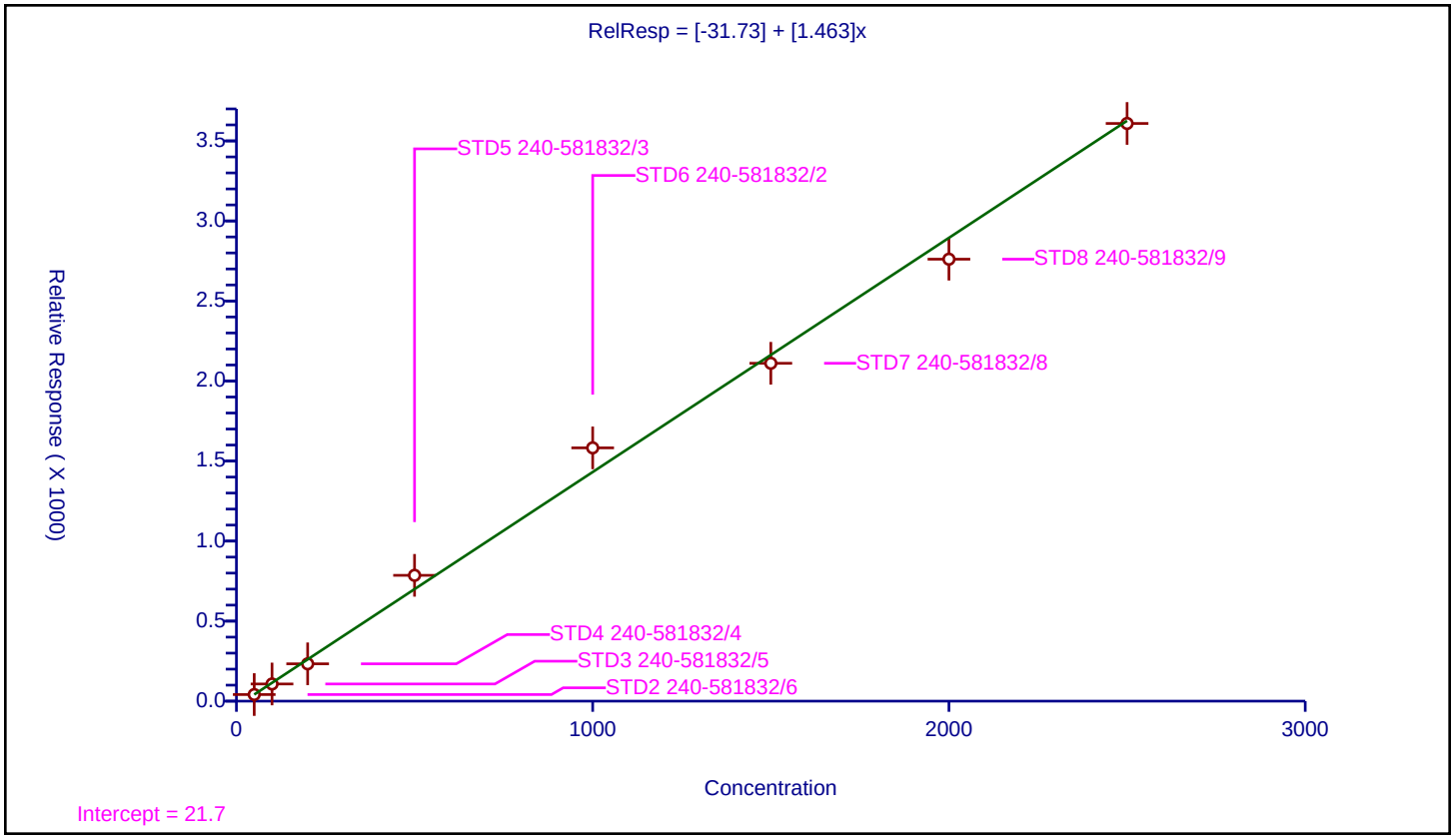
Curve Coefficients

Intercept:	-31.73
Slope:	1.463

Error Coefficients

Standard Error:	1370000
Relative Standard Error:	8.0
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581832/6	50.0	41.189441	400.0	237187.0	0.823789	Y
2	STD3 240-581832/5	100.0	107.312841	400.0	235148.0	1.073128	Y
3	STD4 240-581832/4	200.0	233.23916	400.0	236444.0	1.166196	Y
4	STD5 240-581832/3	500.0	786.028875	400.0	220741.0	1.572058	Y
5	STD6 240-581832/2	1000.0	1582.387794	400.0	237131.0	1.582388	Y
6	STD7 240-581832/8	1500.0	2110.703884	400.0	237596.0	1.407136	Y
7	STD8 240-581832/9	2000.0	2761.041114	400.0	268981.0	1.380521	Y
8	STD9 240-581832/10	2500.0	3609.045373	400.0	253743.0	1.443618	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

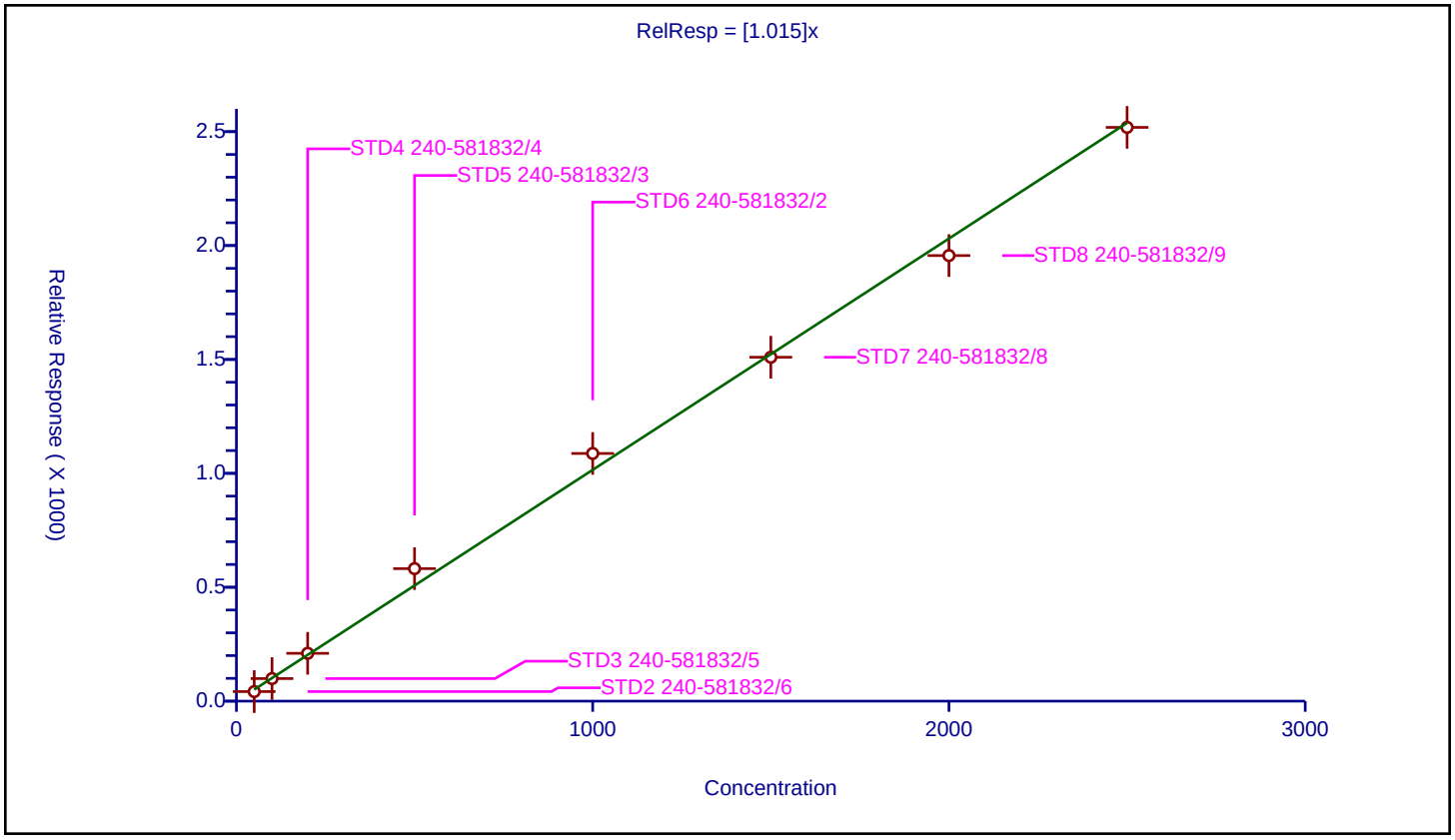
Curve Coefficients

Intercept:	0
Slope:	1.015

Error Coefficients

Standard Error:	895000
Relative Standard Error:	9.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581832/6	50.0	41.975319	400.0	237187.0	0.839506	Y
2	STD3 240-581832/5	100.0	99.08143	400.0	235148.0	0.990814	Y
3	STD4 240-581832/4	200.0	209.925395	400.0	236444.0	1.049627	Y
4	STD5 240-581832/3	500.0	581.720659	400.0	220741.0	1.163441	Y
5	STD6 240-581832/2	1000.0	1087.336536	400.0	237131.0	1.087337	Y
6	STD7 240-581832/8	1500.0	1509.756056	400.0	237596.0	1.006504	Y
7	STD8 240-581832/9	2000.0	1956.127756	400.0	268981.0	0.978064	Y
8	STD9 240-581832/10	2500.0	2518.833623	400.0	253743.0	1.007533	Y



Calibration / Acetophenone

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

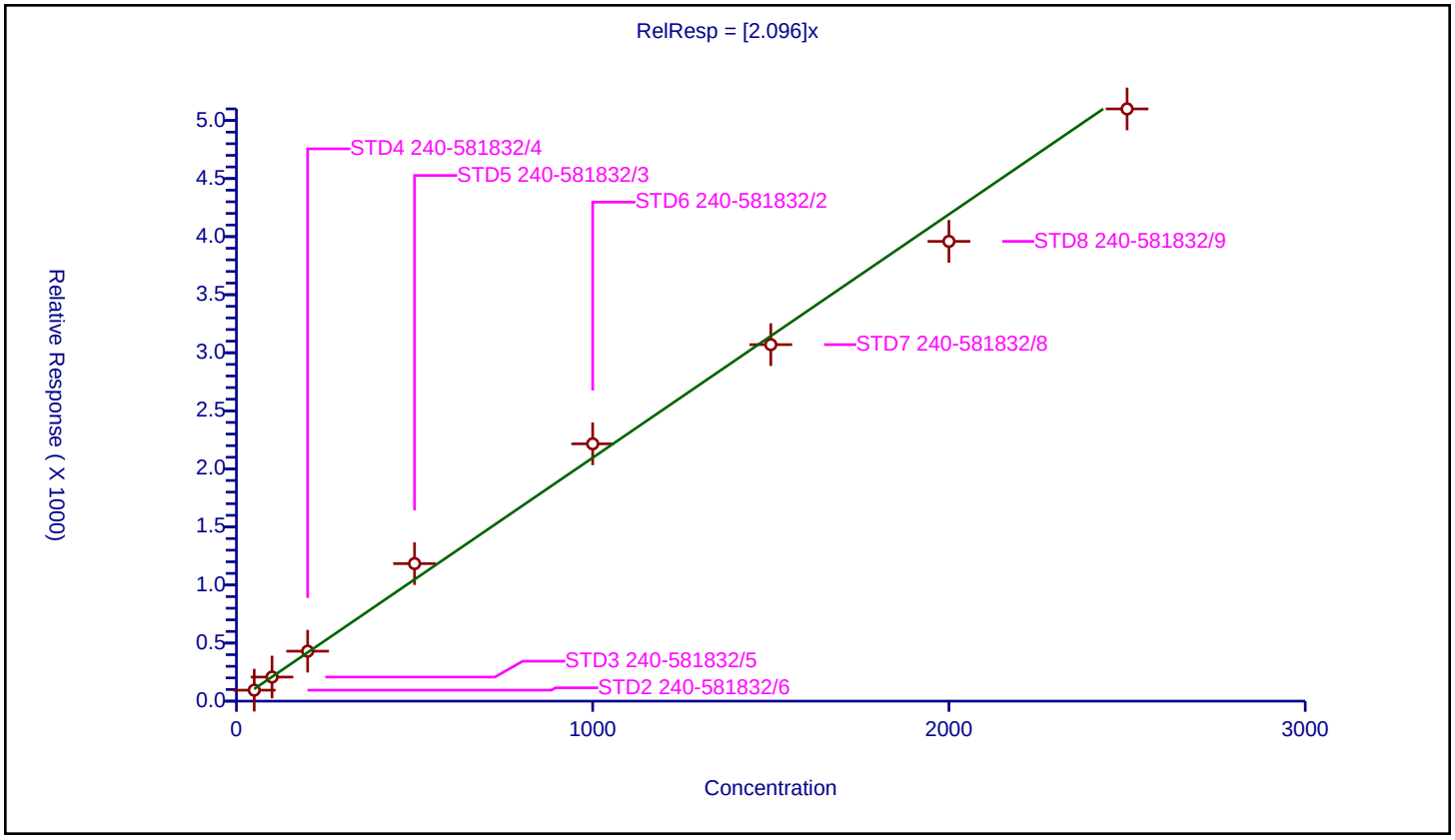
Curve Coefficients

Intercept:	0
Slope:	2.096

Error Coefficients

Standard Error:	1810000
Relative Standard Error:	7.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581832/6	50.0	94.635878	400.0	237187.0	1.892718	Y
2	STD3 240-581832/5	100.0	207.402997	400.0	235148.0	2.07403	Y
3	STD4 240-581832/4	200.0	430.148365	400.0	236444.0	2.150742	Y
4	STD5 240-581832/3	500.0	1184.298341	400.0	220741.0	2.368597	Y
5	STD6 240-581832/2	1000.0	2215.992004	400.0	237131.0	2.215992	Y
6	STD7 240-581832/8	1500.0	3069.93047	400.0	237596.0	2.04662	Y
7	STD8 240-581832/9	2000.0	3959.228347	400.0	268981.0	1.979614	Y
8	STD9 240-581832/10	2500.0	5099.763146	400.0	253743.0	2.039905	Y



Calibration / Hexachloroethane

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

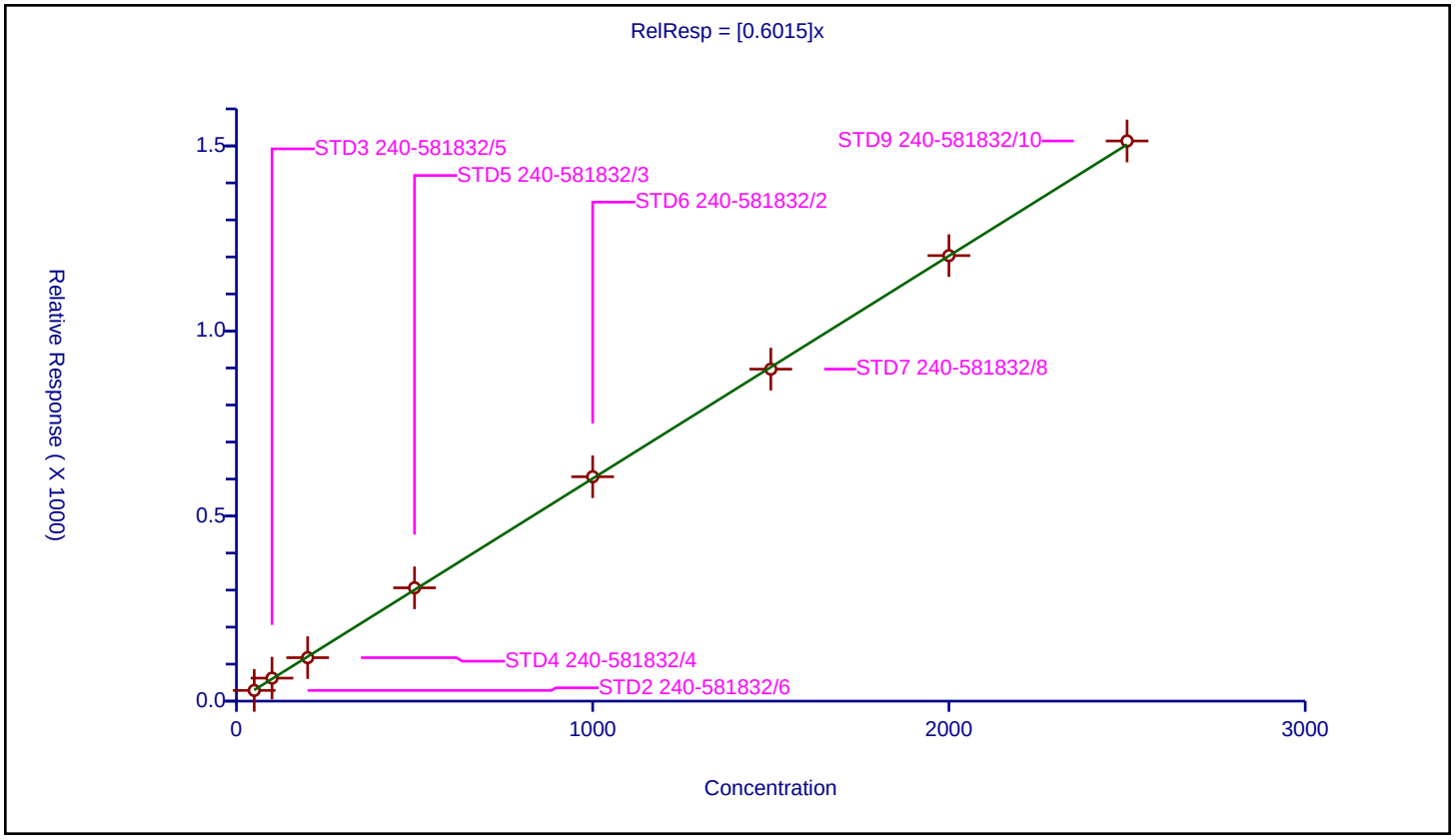
Curve Coefficients

Intercept:	0
Slope:	0.6015

Error Coefficients

Standard Error:	537000
Relative Standard Error:	2.3
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581832/6	50.0	28.94931	400.0	237187.0	0.578986	Y
2	STD3 240-581832/5	100.0	62.211033	400.0	235148.0	0.62211	Y
3	STD4 240-581832/4	200.0	117.456988	400.0	236444.0	0.587285	Y
4	STD5 240-581832/3	500.0	306.098097	400.0	220741.0	0.612196	Y
5	STD6 240-581832/2	1000.0	606.21513	400.0	237131.0	0.606215	Y
6	STD7 240-581832/8	1500.0	896.946077	400.0	237596.0	0.597964	Y
7	STD8 240-581832/9	2000.0	1203.644867	400.0	268981.0	0.601822	Y
8	STD9 240-581832/10	2500.0	1513.354851	400.0	253743.0	0.605342	Y



Calibration / Nitrobenzene-d5

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

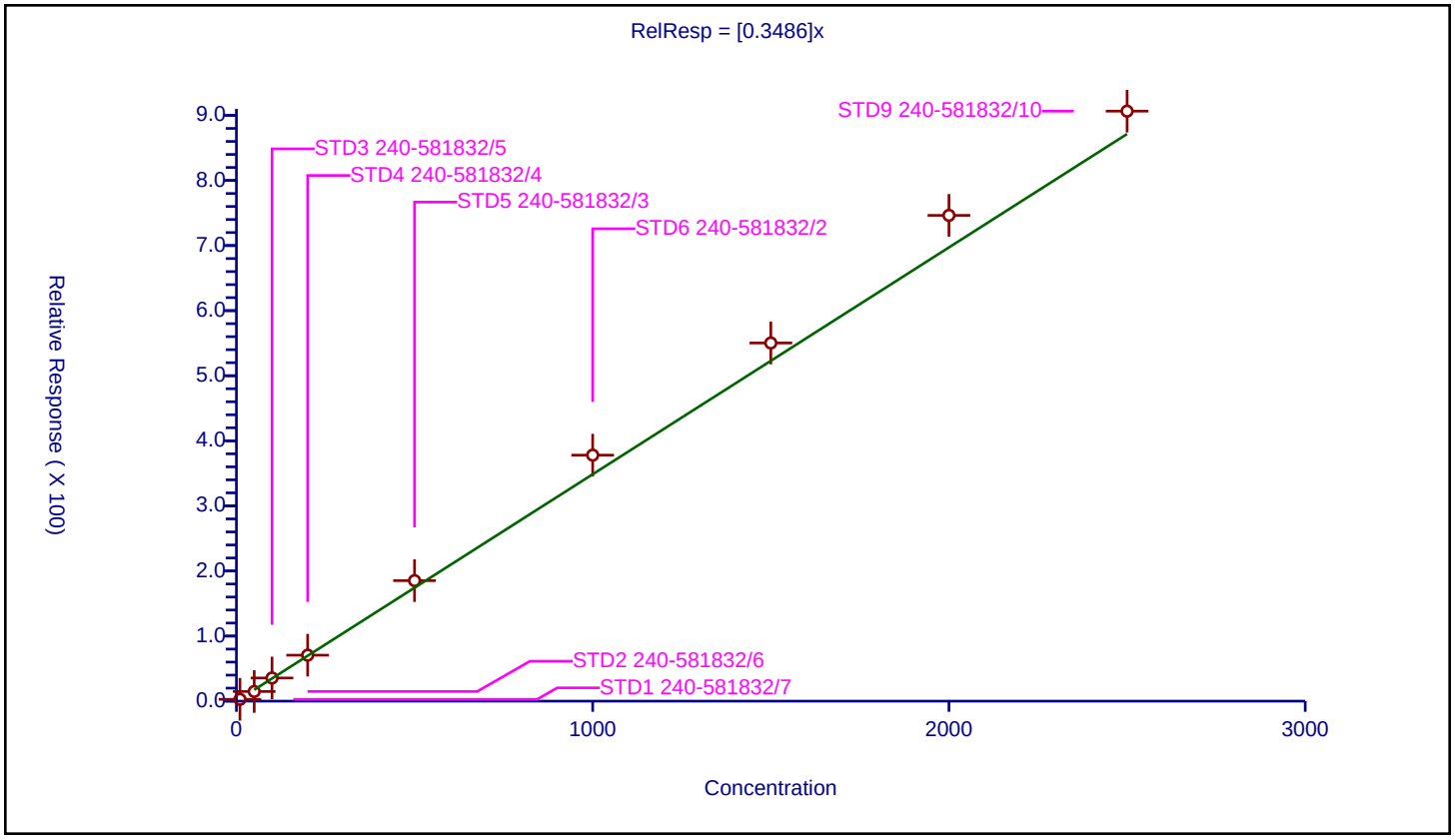
Curve Coefficients

Intercept:	0
Slope:	0.3486

Error Coefficients

Standard Error:	1310000
Relative Standard Error:	10.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 240-581832/7	10.0	2.810247	400.0	1011726.0	0.281025	Y
2	STD2 240-581832/6	50.0	14.819356	400.0	978747.0	0.296387	Y
3	STD3 240-581832/5	100.0	35.569524	400.0	985068.0	0.355695	Y
4	STD4 240-581832/4	200.0	70.623825	400.0	1016167.0	0.353119	Y
5	STD5 240-581832/3	500.0	185.16191	400.0	1047062.0	0.370324	Y
6	STD6 240-581832/2	1000.0	377.97153	400.0	1043141.0	0.377972	Y
7	STD7 240-581832/8	1500.0	550.320119	400.0	1012591.0	0.36688	Y
8	STD8 240-581832/9	2000.0	746.367618	400.0	1108047.0	0.373184	Y
9	STD9 240-581832/10	2500.0	906.516045	400.0	1110244.0	0.362606	Y



Calibration / Nitrobenzene

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

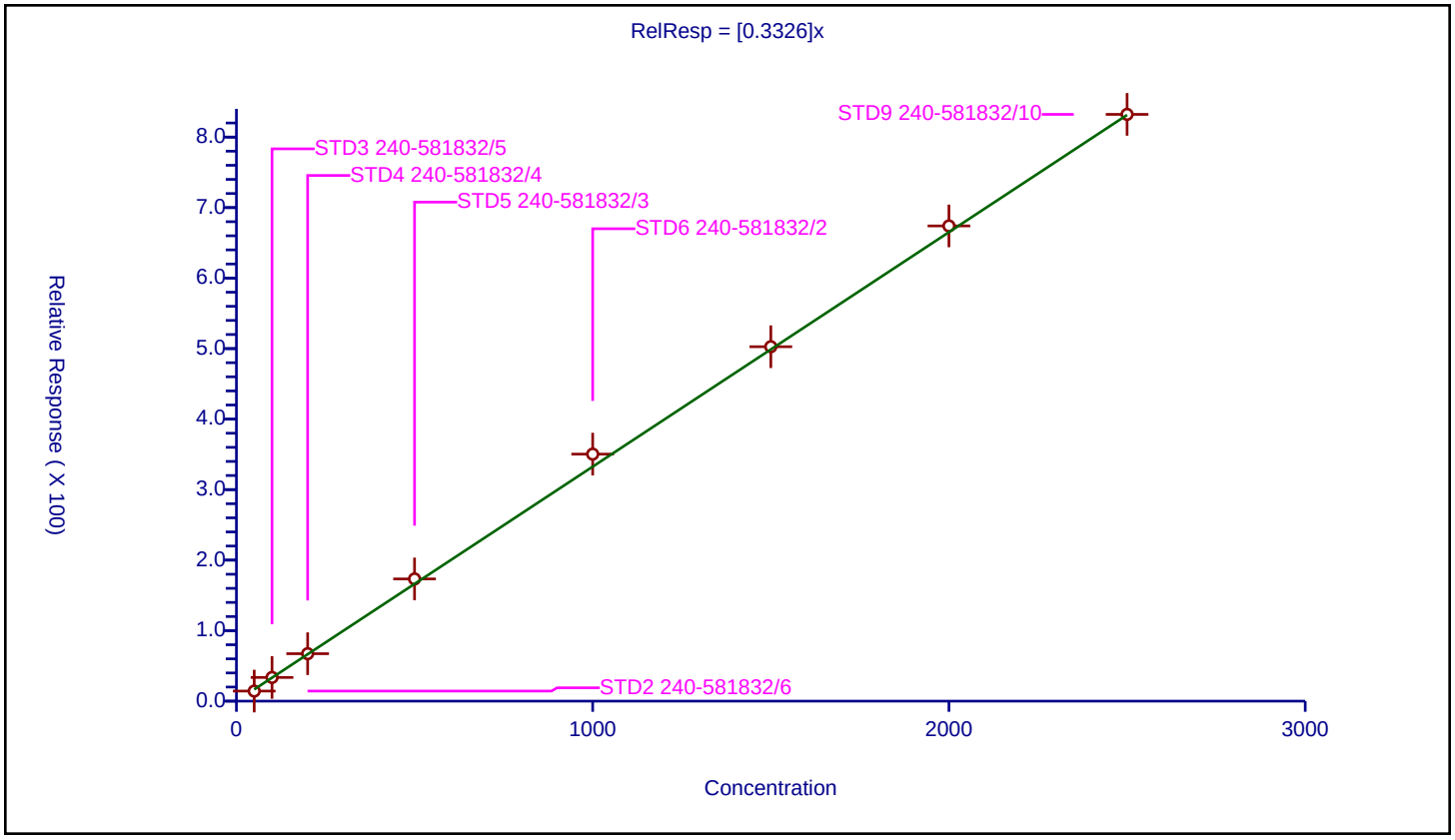
Curve Coefficients

Intercept:	0
Slope:	0.3326

Error Coefficients

Standard Error:	1280000
Relative Standard Error:	6.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581832/6	50.0	14.292968	400.0	978747.0	0.285859	Y
2	STD3 240-581832/5	100.0	33.611487	400.0	985068.0	0.336115	Y
3	STD4 240-581832/4	200.0	67.305079	400.0	1016167.0	0.336525	Y
4	STD5 240-581832/3	500.0	173.344845	400.0	1047062.0	0.34669	Y
5	STD6 240-581832/2	1000.0	350.366825	400.0	1043141.0	0.350367	Y
6	STD7 240-581832/8	1500.0	502.717089	400.0	1012591.0	0.335145	Y
7	STD8 240-581832/9	2000.0	674.001374	400.0	1108047.0	0.337001	Y
8	STD9 240-581832/10	2500.0	832.219944	400.0	1110244.0	0.332888	Y



Calibration / Isophorone

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

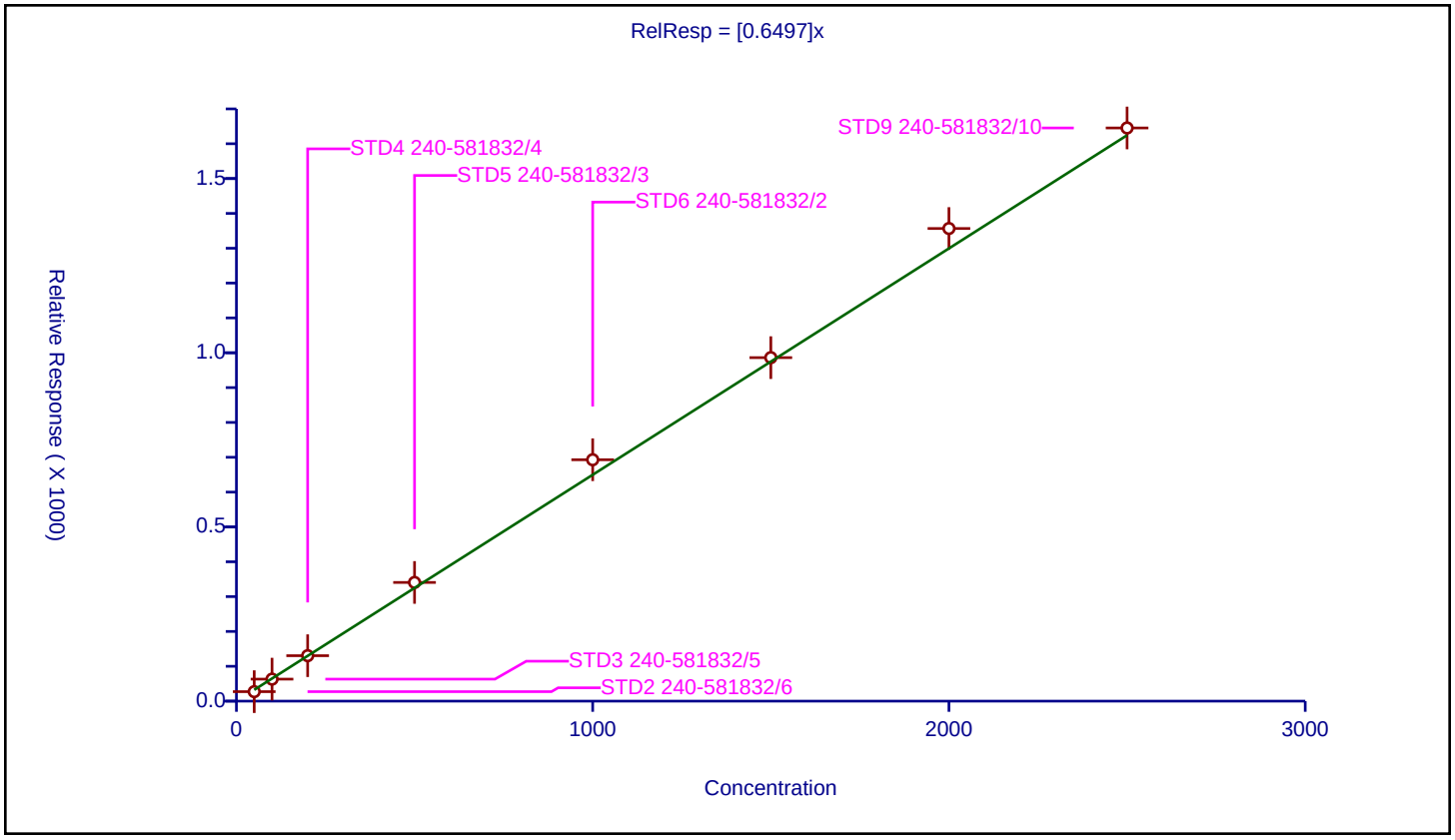
Curve Coefficients

Intercept:	0
Slope:	0.6497

Error Coefficients

Standard Error:	2550000
Relative Standard Error:	7.1
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581832/6	50.0	27.278142	400.0	978747.0	0.545563	Y
2	STD3 240-581832/5	100.0	63.180613	400.0	985068.0	0.631806	Y
3	STD4 240-581832/4	200.0	130.467138	400.0	1016167.0	0.652336	Y
4	STD5 240-581832/3	500.0	340.716787	400.0	1047062.0	0.681434	Y
5	STD6 240-581832/2	1000.0	692.895016	400.0	1043141.0	0.692895	Y
6	STD7 240-581832/8	1500.0	986.03049	400.0	1012591.0	0.657354	Y
7	STD8 240-581832/9	2000.0	1356.671333	400.0	1108047.0	0.678336	Y
8	STD9 240-581832/10	2500.0	1645.288063	400.0	1110244.0	0.658115	Y



8/12/2023
10:47 AM

Calibration / 2,4-Dimethylphenol

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

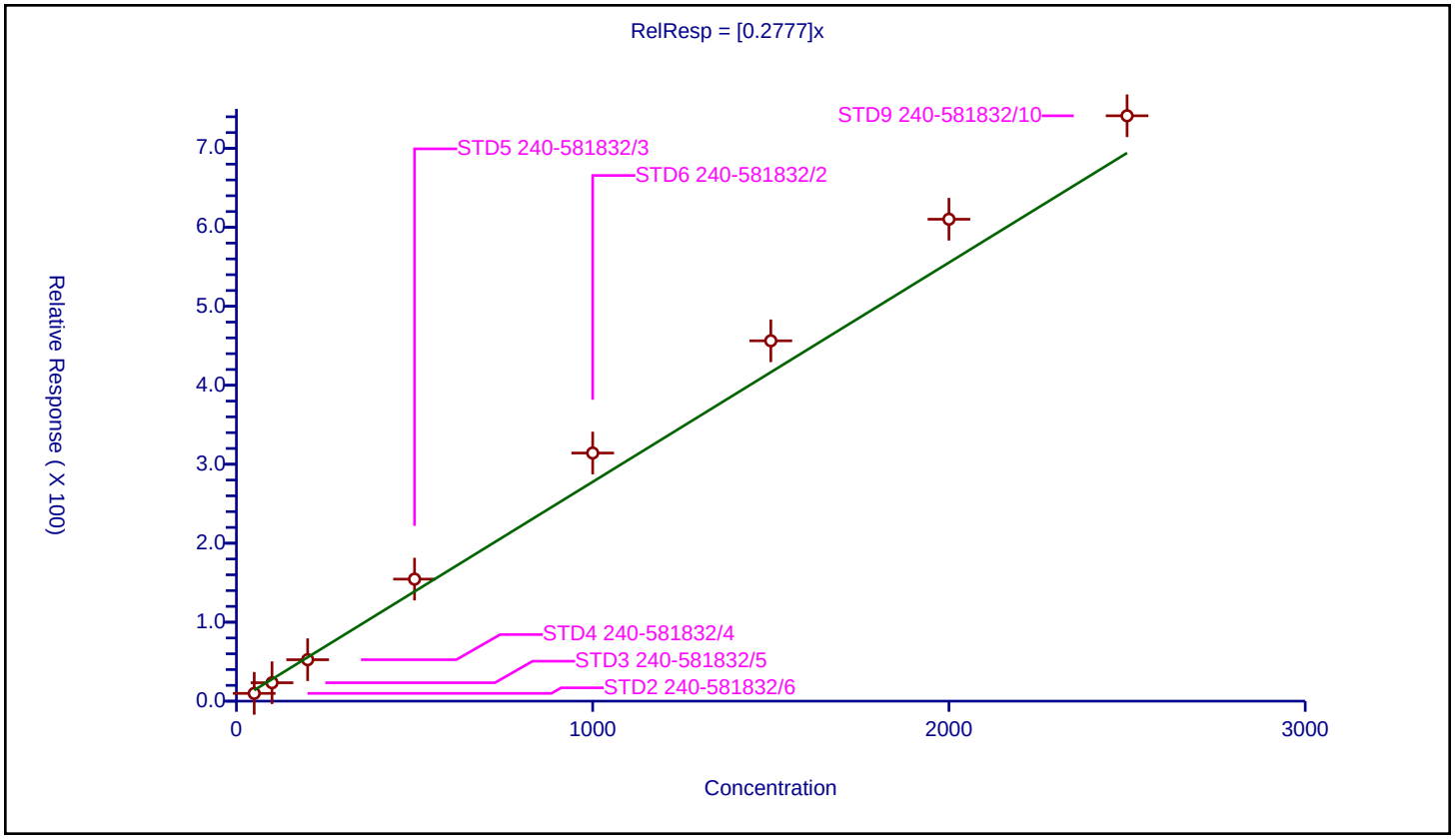
Curve Coefficients

Intercept:	0
Slope:	0.2777

Error Coefficients

Standard Error:	1150000
Relative Standard Error:	15.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.973

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581832/6	50.0	9.844832	400.0	978747.0	0.196897	Y
2	STD3 240-581832/5	100.0	23.308036	400.0	985068.0	0.23308	Y
3	STD4 240-581832/4	200.0	52.475233	400.0	1016167.0	0.262376	Y
4	STD5 240-581832/3	500.0	154.524183	400.0	1047062.0	0.309048	Y
5	STD6 240-581832/2	1000.0	314.206804	400.0	1043141.0	0.314207	Y
6	STD7 240-581832/8	1500.0	456.326789	400.0	1012591.0	0.304218	Y
7	STD8 240-581832/9	2000.0	610.278084	400.0	1108047.0	0.305139	Y
8	STD9 240-581832/10	2500.0	741.257237	400.0	1110244.0	0.296503	Y



Calibration / 2-Nitrophenol

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

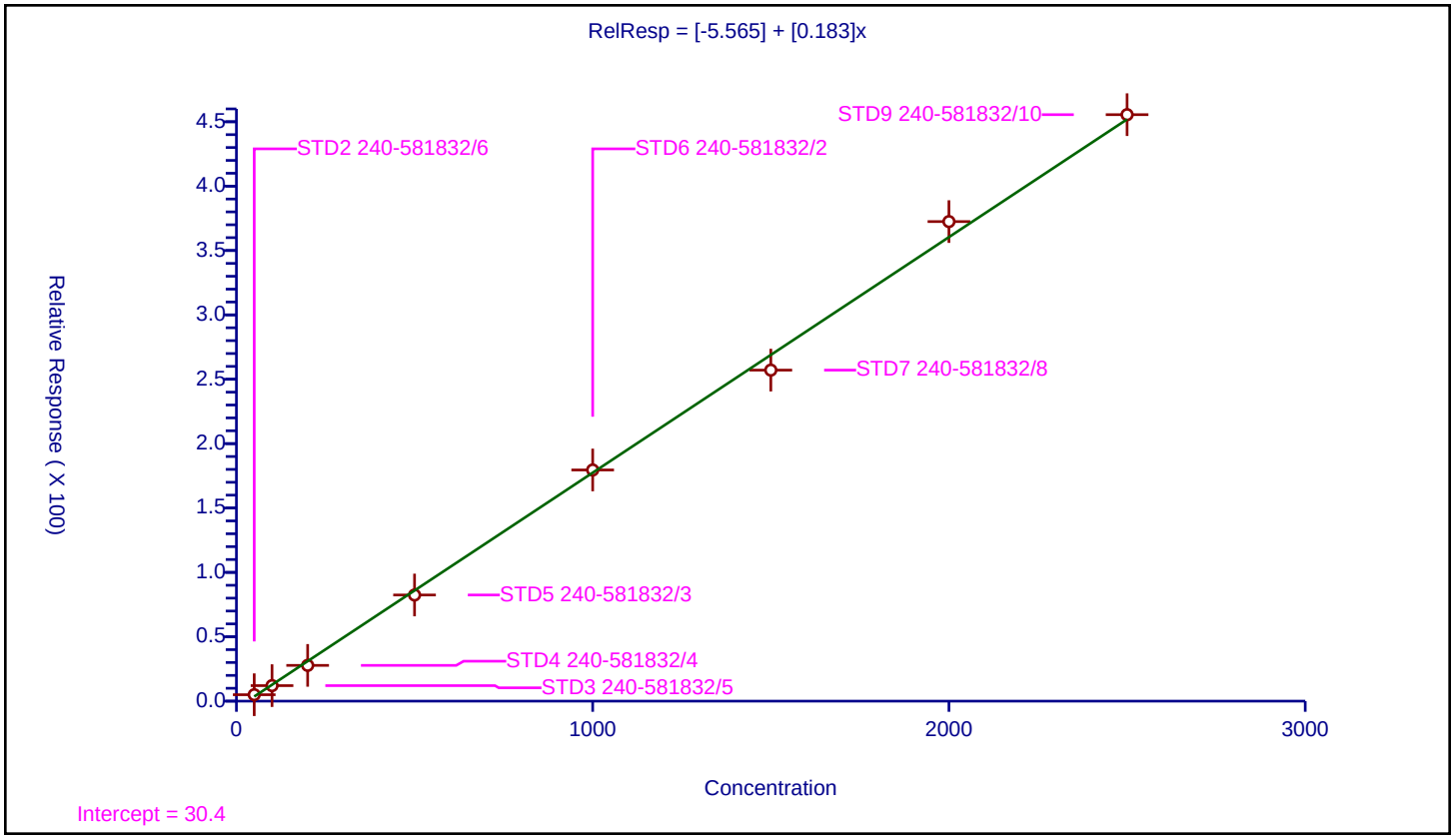
Curve Coefficients

Intercept:	-5.565
Slope:	0.183

Error Coefficients

Standard Error:	748000
Relative Standard Error:	7.9
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581832/6	50.0	4.995367	400.0	978747.0	0.099907	Y
2	STD3 240-581832/5	100.0	12.060081	400.0	985068.0	0.120601	Y
3	STD4 240-581832/4	200.0	27.781654	400.0	1016167.0	0.138908	Y
4	STD5 240-581832/3	500.0	82.452424	400.0	1047062.0	0.164905	Y
5	STD6 240-581832/2	1000.0	179.542746	400.0	1043141.0	0.179543	Y
6	STD7 240-581832/8	1500.0	257.100843	400.0	1012591.0	0.171401	Y
7	STD8 240-581832/9	2000.0	372.473009	400.0	1108047.0	0.186237	Y
8	STD9 240-581832/10	2500.0	455.508519	400.0	1110244.0	0.182203	Y



8/12/2023
10:47 AM

Calibration / Benzoic acid

Curve Type:	Quadratic
Weighting:	None
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

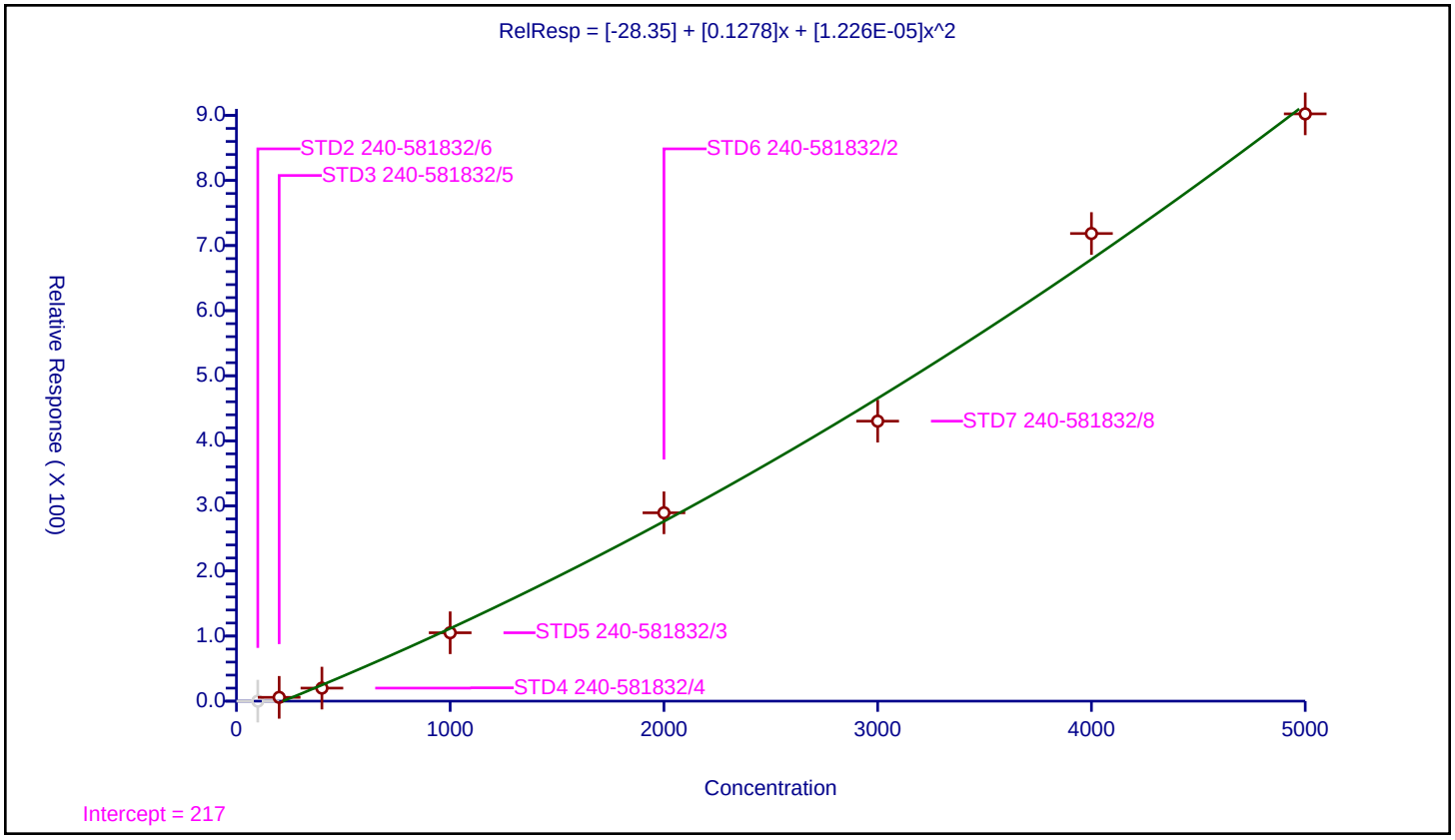
Curve Coefficients

Intercept:	-28.35
Slope:	0.1278
Second Order:	1.226E-05

Error Coefficients

Standard Error:	1740000
Relative Standard Error:	16.5
Correlation Coefficient:	0.991
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581832/6	100.0	0.0	400.0	978747.0	0.0	N
2	STD3 240-581832/5	200.0	5.813609	400.0	985068.0	0.029068	Y
3	STD4 240-581832/4	400.0	20.014427	400.0	1016167.0	0.050036	Y
4	STD5 240-581832/3	1000.0	105.088715	400.0	1047062.0	0.105089	Y
5	STD6 240-581832/2	2000.0	289.407856	400.0	1043141.0	0.144704	Y
6	STD7 240-581832/8	3000.0	430.20884	400.0	1012591.0	0.143403	Y
7	STD8 240-581832/9	4000.0	718.513565	400.0	1108047.0	0.179628	Y
8	STD9 240-581832/10	5000.0	902.387223	400.0	1110244.0	0.180477	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

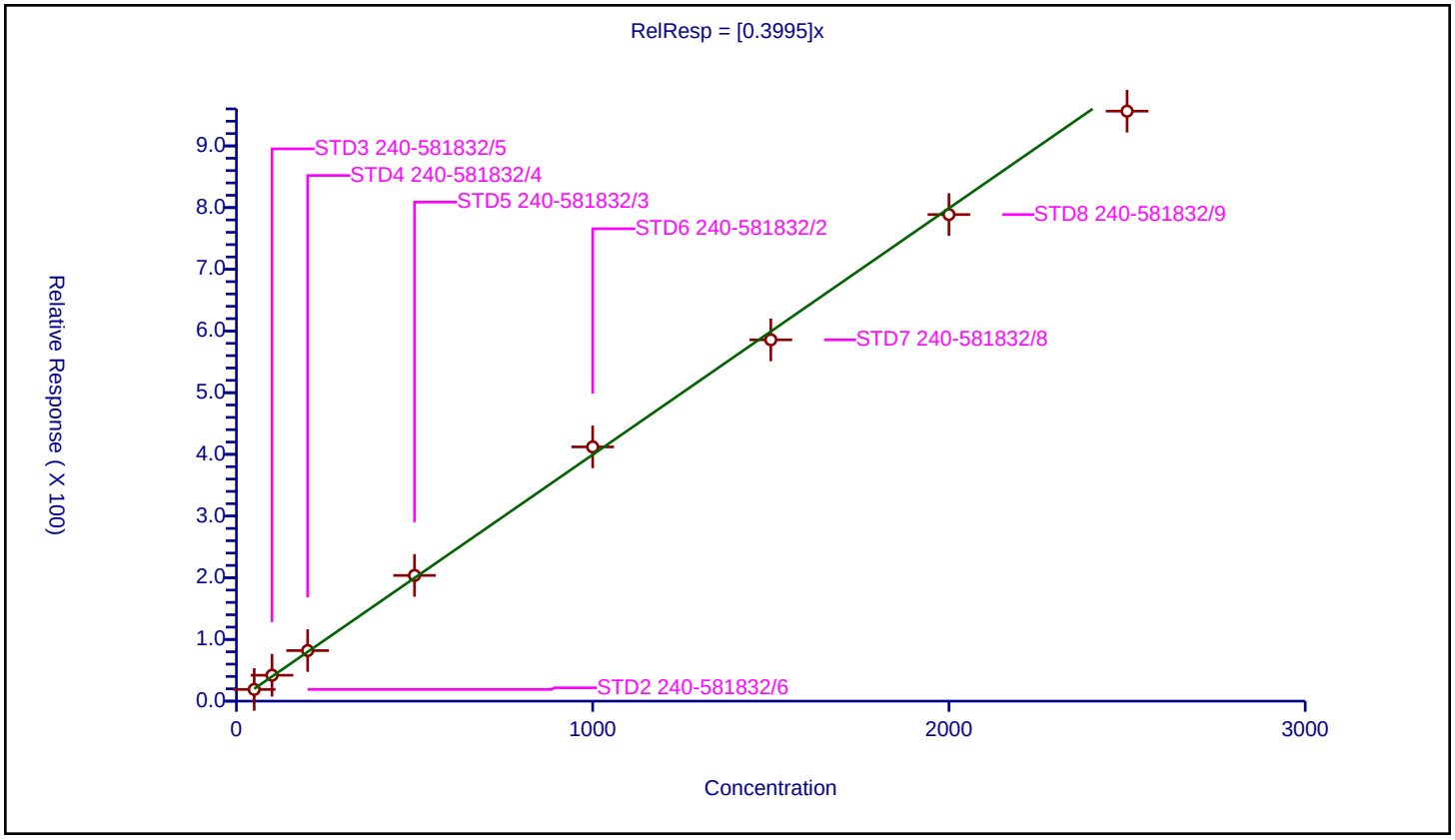
Curve Coefficients

Intercept:	0
Slope:	0.3995

Error Coefficients

Standard Error:	1490000
Relative Standard Error:	3.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581832/6	50.0	18.961795	400.0	978747.0	0.379236	Y
2	STD3 240-581832/5	100.0	41.971519	400.0	985068.0	0.419715	Y
3	STD4 240-581832/4	200.0	81.983375	400.0	1016167.0	0.409917	Y
4	STD5 240-581832/3	500.0	203.733876	400.0	1047062.0	0.407468	Y
5	STD6 240-581832/2	1000.0	412.090408	400.0	1043141.0	0.41209	Y
6	STD7 240-581832/8	1500.0	585.667856	400.0	1012591.0	0.390445	Y
7	STD8 240-581832/9	2000.0	788.70084	400.0	1108047.0	0.39435	Y
8	STD9 240-581832/10	2500.0	956.328879	400.0	1110244.0	0.382532	Y



8/12/2023
10:47 AM

Calibration / 2,4-Dichlorophenol

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

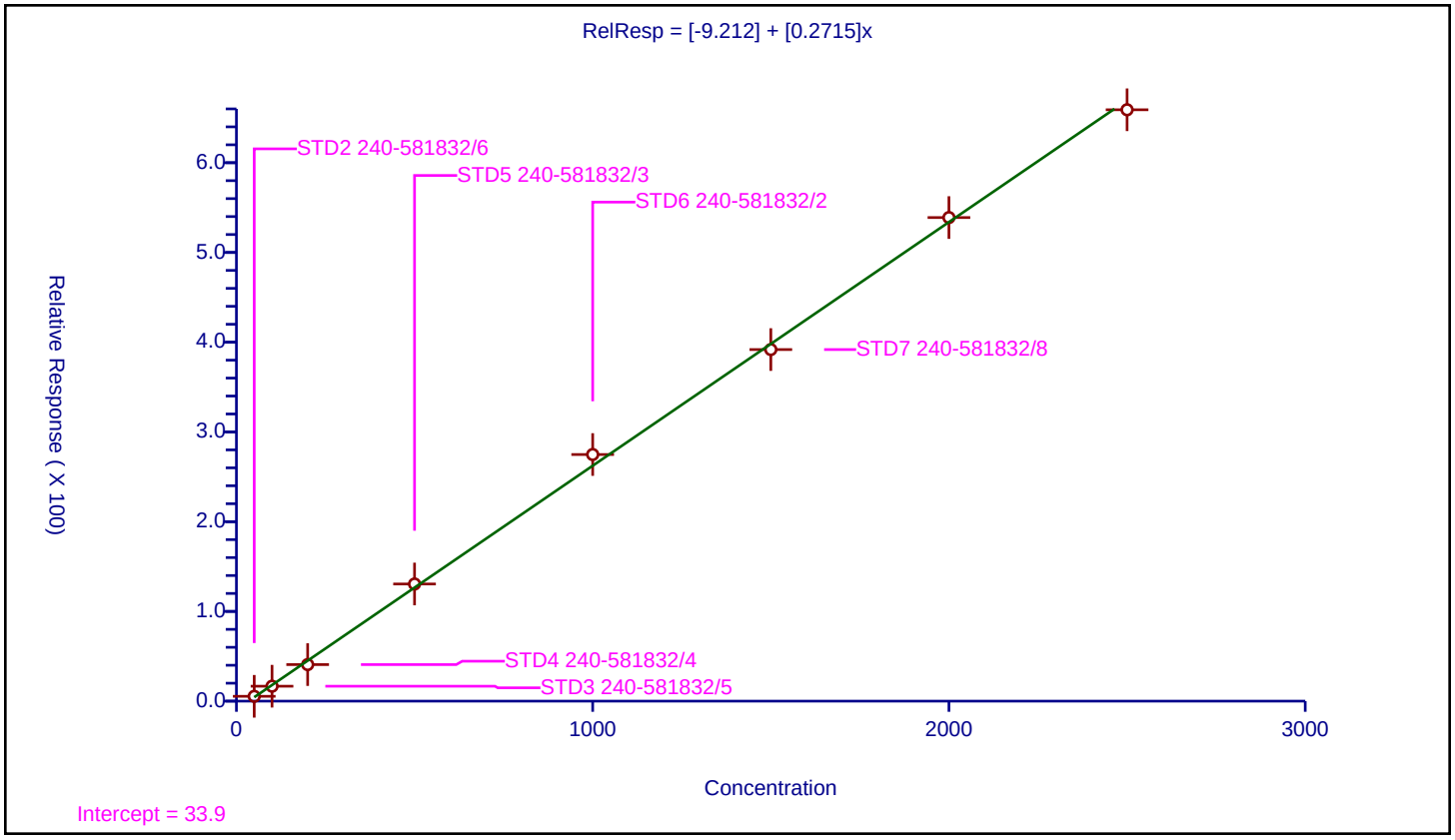
Curve Coefficients

Intercept:	-9.212
Slope:	0.2715

Error Coefficients

Standard Error:	1100000
Relative Standard Error:	5.4
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581832/6	50.0	5.372992	400.0	978747.0	0.10746	Y
2	STD3 240-581832/5	100.0	16.642506	400.0	985068.0	0.166425	Y
3	STD4 240-581832/4	200.0	40.746452	400.0	1016167.0	0.203732	Y
4	STD5 240-581832/3	500.0	130.556548	400.0	1047062.0	0.261113	Y
5	STD6 240-581832/2	1000.0	274.833412	400.0	1043141.0	0.274833	Y
6	STD7 240-581832/8	1500.0	391.790565	400.0	1012591.0	0.261194	Y
7	STD8 240-581832/9	2000.0	538.891581	400.0	1108047.0	0.269446	Y
8	STD9 240-581832/10	2500.0	659.028466	400.0	1110244.0	0.263611	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

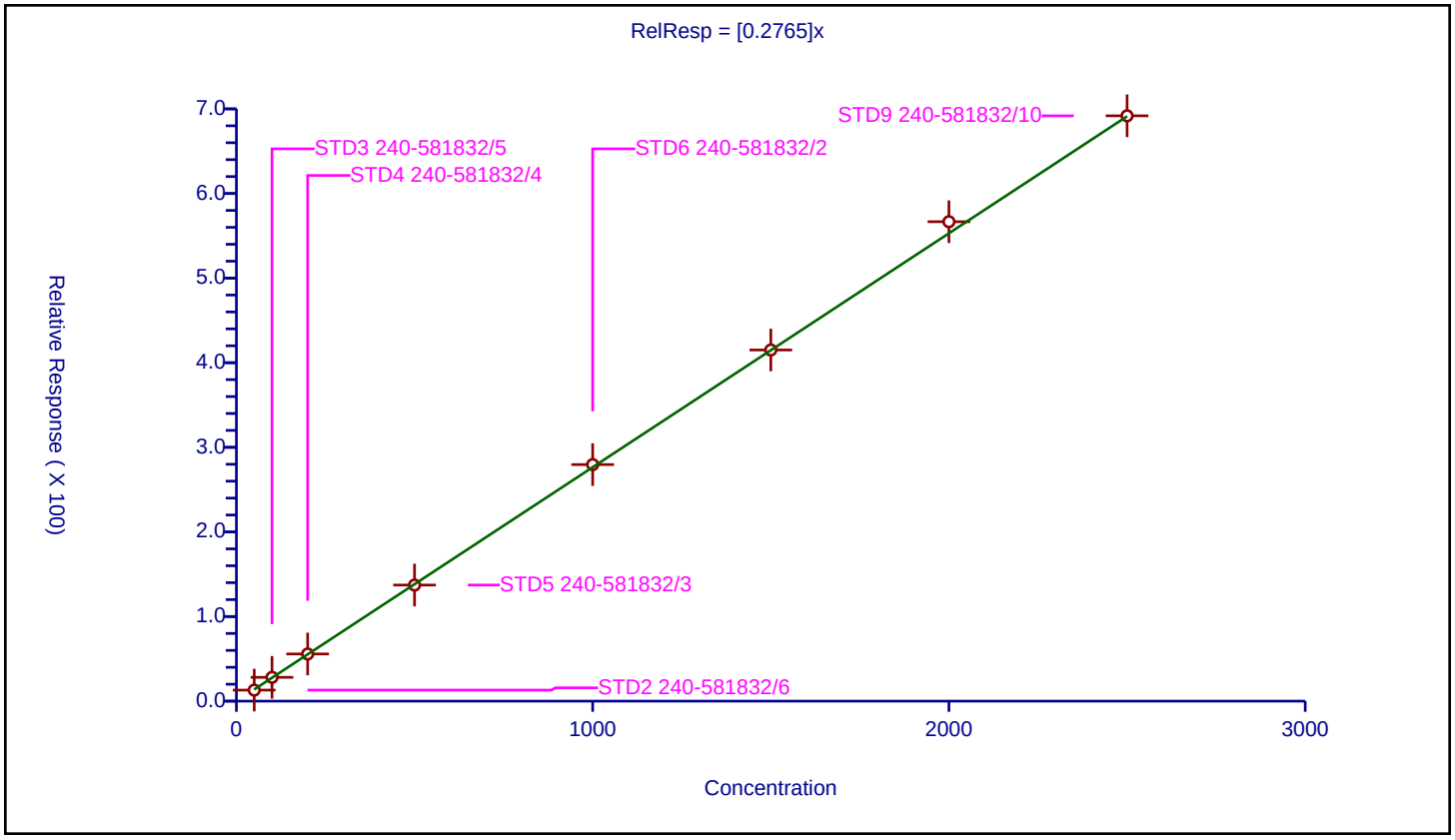
Curve Coefficients

Intercept:	0
Slope:	0.2765

Error Coefficients

Standard Error:	1060000
Relative Standard Error:	2.5
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581832/6	50.0	13.053016	400.0	978747.0	0.26106	Y
2	STD3 240-581832/5	100.0	28.136535	400.0	985068.0	0.281365	Y
3	STD4 240-581832/4	200.0	55.746349	400.0	1016167.0	0.278732	Y
4	STD5 240-581832/3	500.0	137.197224	400.0	1047062.0	0.274394	Y
5	STD6 240-581832/2	1000.0	279.594034	400.0	1043141.0	0.279594	Y
6	STD7 240-581832/8	1500.0	415.037858	400.0	1012591.0	0.276692	Y
7	STD8 240-581832/9	2000.0	566.636253	400.0	1108047.0	0.283318	Y
8	STD9 240-581832/10	2500.0	691.823059	400.0	1110244.0	0.276729	Y



Calibration / Naphthalene

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

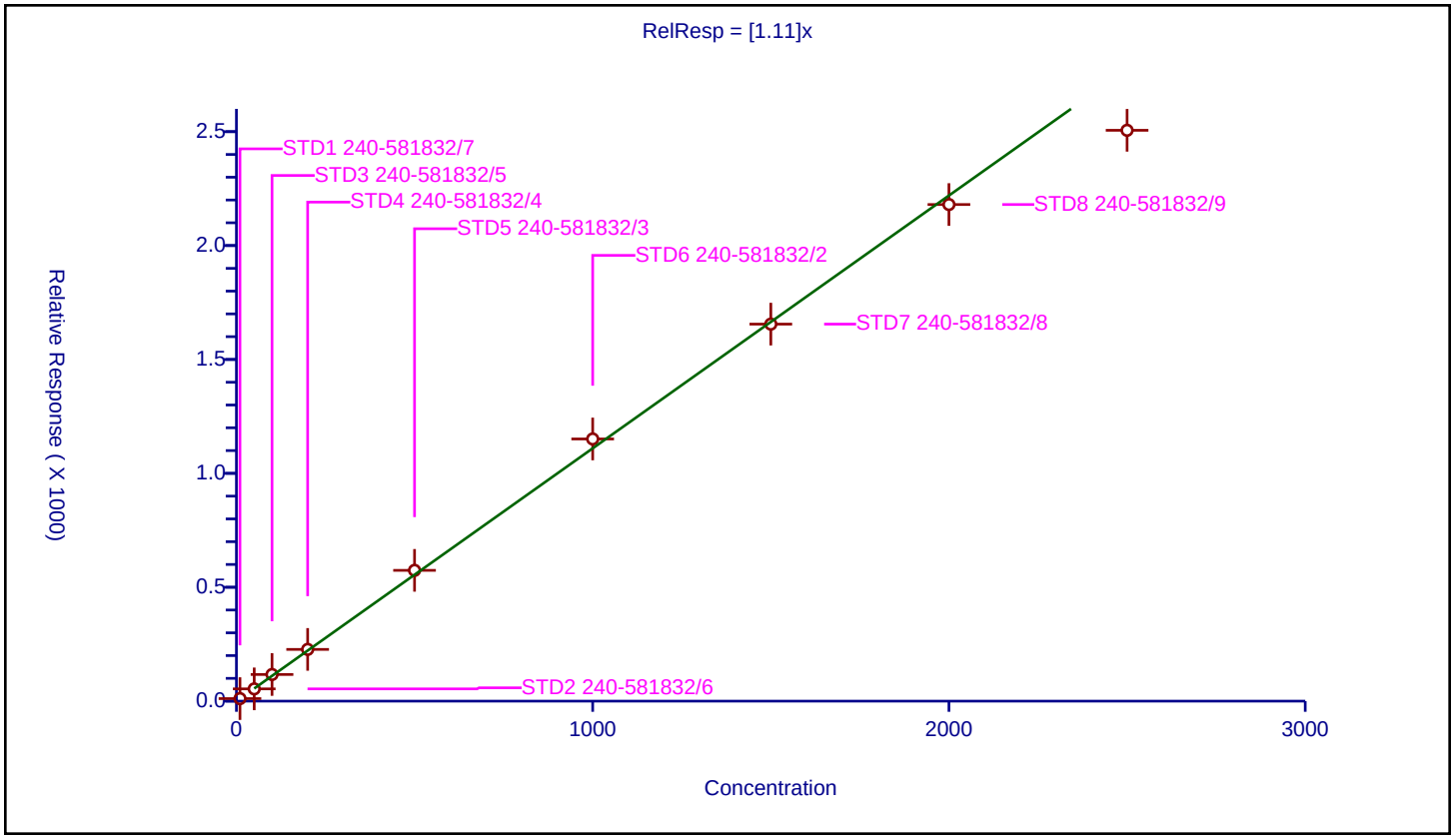
Curve Coefficients

Intercept:	0
Slope:	1.11

Error Coefficients

Standard Error:	3780000
Relative Standard Error:	4.6
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 240-581832/7	10.0	11.117635	400.0	1011726.0	1.111763	Y
2	STD2 240-581832/6	50.0	53.822285	400.0	978747.0	1.076446	Y
3	STD3 240-581832/5	100.0	116.958017	400.0	985068.0	1.16958	Y
4	STD4 240-581832/4	200.0	227.070944	400.0	1016167.0	1.135355	Y
5	STD5 240-581832/3	500.0	574.108123	400.0	1047062.0	1.148216	Y
6	STD6 240-581832/2	1000.0	1150.966552	400.0	1043141.0	1.150967	Y
7	STD7 240-581832/8	1500.0	1655.110899	400.0	1012591.0	1.103407	Y
8	STD8 240-581832/9	2000.0	2180.114381	400.0	1108047.0	1.090057	Y
9	STD9 240-581832/10	2500.0	2506.010931	400.0	1110244.0	1.002404	Y



Calibration / 4-Chloroaniline

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

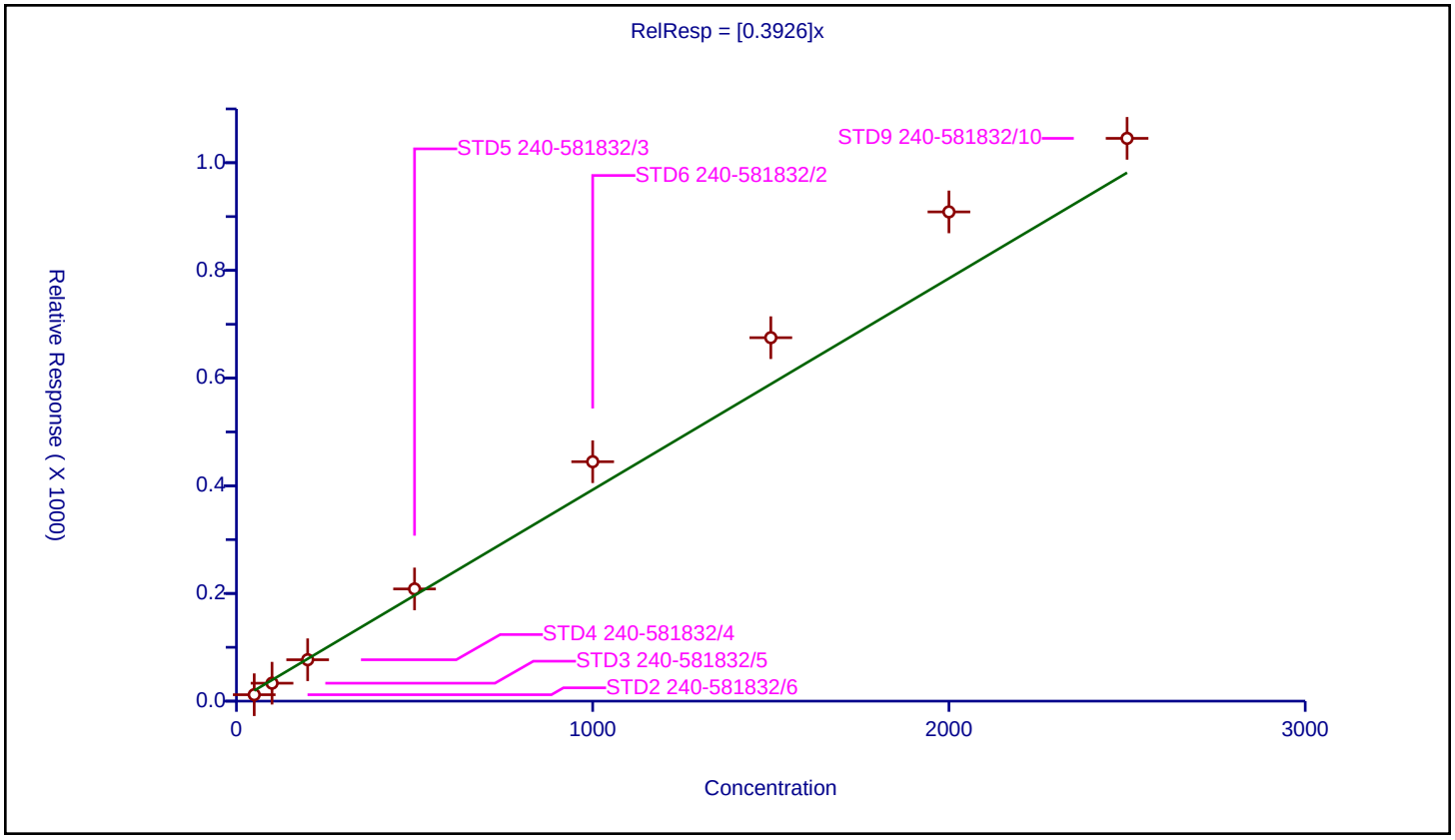
Curve Coefficients

Intercept:	0
Slope:	0.3926

Error Coefficients

Standard Error:	1660000
Relative Standard Error:	18.8
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.962

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581832/6	50.0	11.95692	400.0	978747.0	0.239138	Y
2	STD3 240-581832/5	100.0	33.328461	400.0	985068.0	0.333285	Y
3	STD4 240-581832/4	200.0	76.881457	400.0	1016167.0	0.384407	Y
4	STD5 240-581832/3	500.0	208.384222	400.0	1047062.0	0.416768	Y
5	STD6 240-581832/2	1000.0	444.69923	400.0	1043141.0	0.444699	Y
6	STD7 240-581832/8	1500.0	675.089943	400.0	1012591.0	0.45006	Y
7	STD8 240-581832/9	2000.0	908.682032	400.0	1108047.0	0.454341	Y
8	STD9 240-581832/10	2500.0	1045.276174	400.0	1110244.0	0.41811	Y



Calibration / 2,6-Dichlorophenol

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

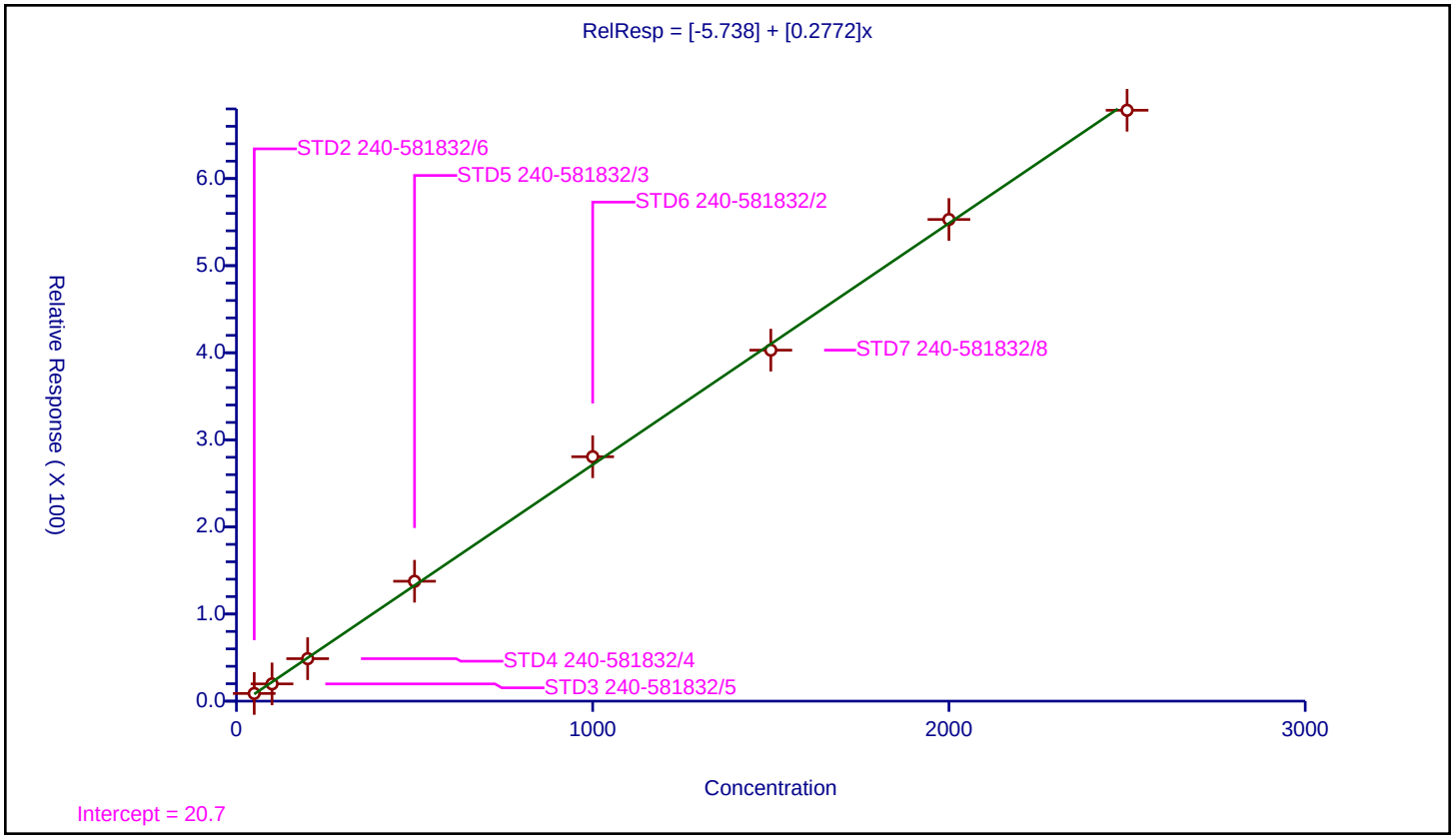
Curve Coefficients

Intercept:	-5.738
Slope:	0.2772

Error Coefficients

Standard Error:	1130000
Relative Standard Error:	4.4
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581832/6	50.0	8.818213	400.0	978747.0	0.176364	Y
2	STD3 240-581832/5	100.0	19.787466	400.0	985068.0	0.197875	Y
3	STD4 240-581832/4	200.0	48.77466	400.0	1016167.0	0.243873	Y
4	STD5 240-581832/3	500.0	137.654886	400.0	1047062.0	0.27531	Y
5	STD6 240-581832/2	1000.0	280.619399	400.0	1043141.0	0.280619	Y
6	STD7 240-581832/8	1500.0	403.016815	400.0	1012591.0	0.268678	Y
7	STD8 240-581832/9	2000.0	553.027083	400.0	1108047.0	0.276514	Y
8	STD9 240-581832/10	2500.0	678.44726	400.0	1110244.0	0.271379	Y



Calibration / Hexachlorobutadiene

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

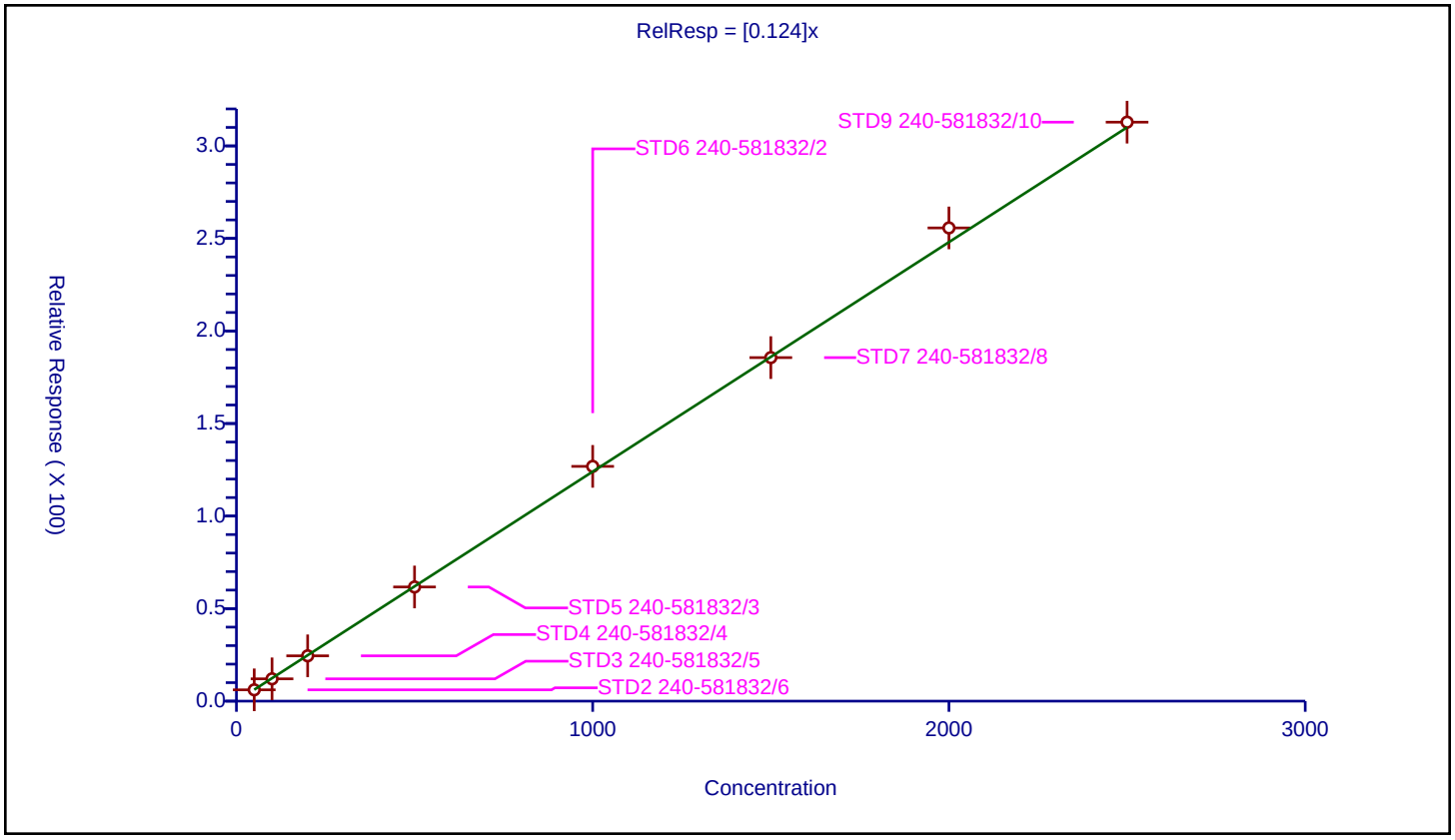
Curve Coefficients

Intercept:	0
Slope:	0.124

Error Coefficients

Standard Error:	480000
Relative Standard Error:	2.0
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581832/6	50.0	6.109853	400.0	978747.0	0.122197	Y
2	STD3 240-581832/5	100.0	12.045869	400.0	985068.0	0.120459	Y
3	STD4 240-581832/4	200.0	24.486526	400.0	1016167.0	0.122433	Y
4	STD5 240-581832/3	500.0	61.682307	400.0	1047062.0	0.123365	Y
5	STD6 240-581832/2	1000.0	126.847281	400.0	1043141.0	0.126847	Y
6	STD7 240-581832/8	1500.0	185.618083	400.0	1012591.0	0.123745	Y
7	STD8 240-581832/9	2000.0	255.692042	400.0	1108047.0	0.127846	Y
8	STD9 240-581832/10	2500.0	312.8397	400.0	1110244.0	0.125136	Y



8/12/2023
10:47 AM

Calibration / Caprolactam

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

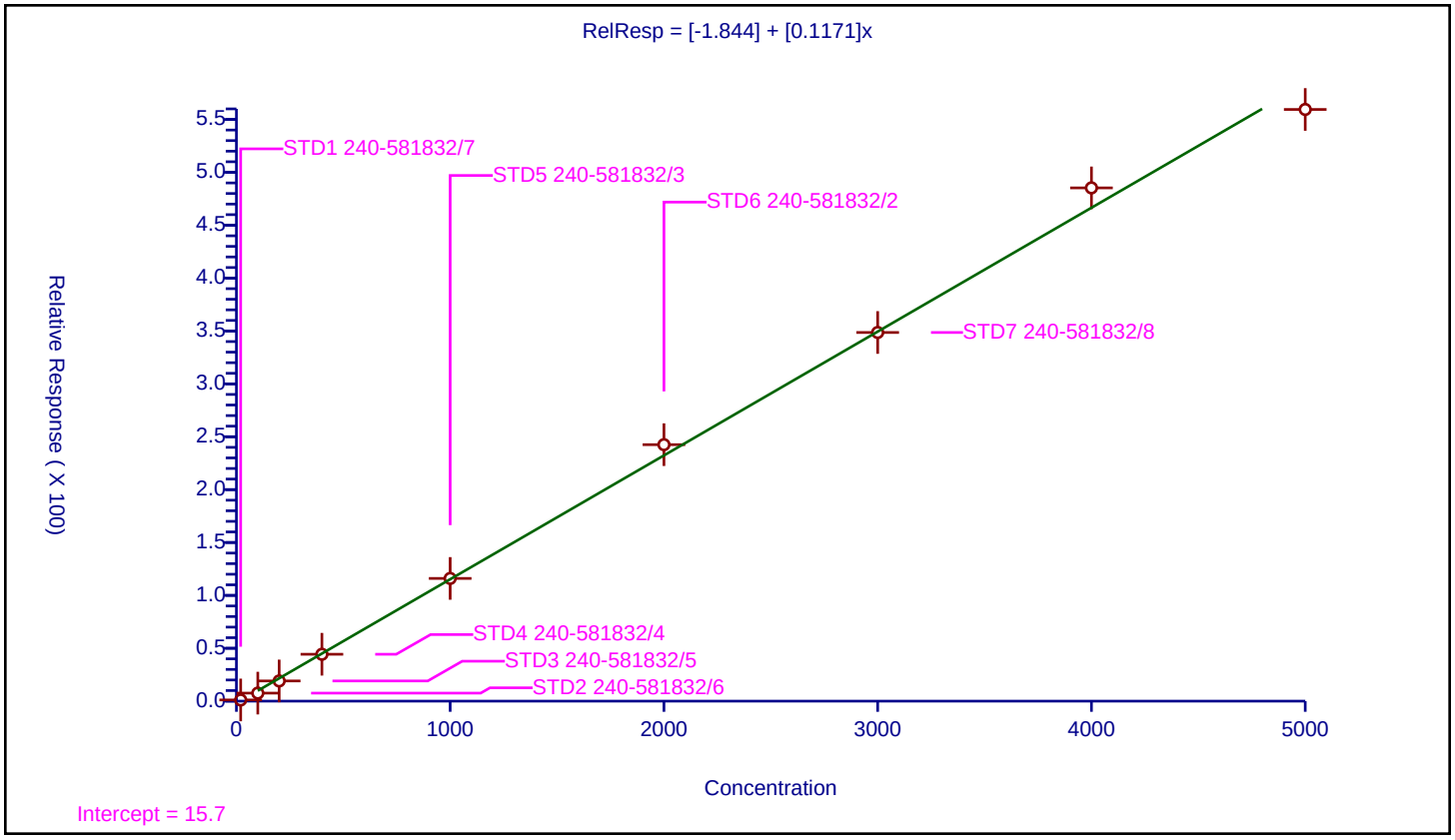
Curve Coefficients

Intercept:	-1.844
Slope:	0.1171

Error Coefficients

Standard Error:	886000
Relative Standard Error:	13.4
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 240-581832/7	20.0	1.125997	400.0	1011726.0	0.0563	Y
2	STD2 240-581832/6	100.0	7.582348	400.0	978747.0	0.075823	Y
3	STD3 240-581832/5	200.0	19.095128	400.0	985068.0	0.095476	Y
4	STD4 240-581832/4	400.0	44.323423	400.0	1016167.0	0.110809	Y
5	STD5 240-581832/3	1000.0	116.037828	400.0	1047062.0	0.116038	Y
6	STD6 240-581832/2	2000.0	242.509498	400.0	1043141.0	0.121255	Y
7	STD7 240-581832/8	3000.0	348.588917	400.0	1012591.0	0.116196	Y
8	STD8 240-581832/9	4000.0	485.30649	400.0	1108047.0	0.121327	Y
9	STD9 240-581832/10	5000.0	559.45684	400.0	1110244.0	0.111891	Y



8/12/2023
10:47 AM

Calibration / 4-Chloro-3-methylphenol

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

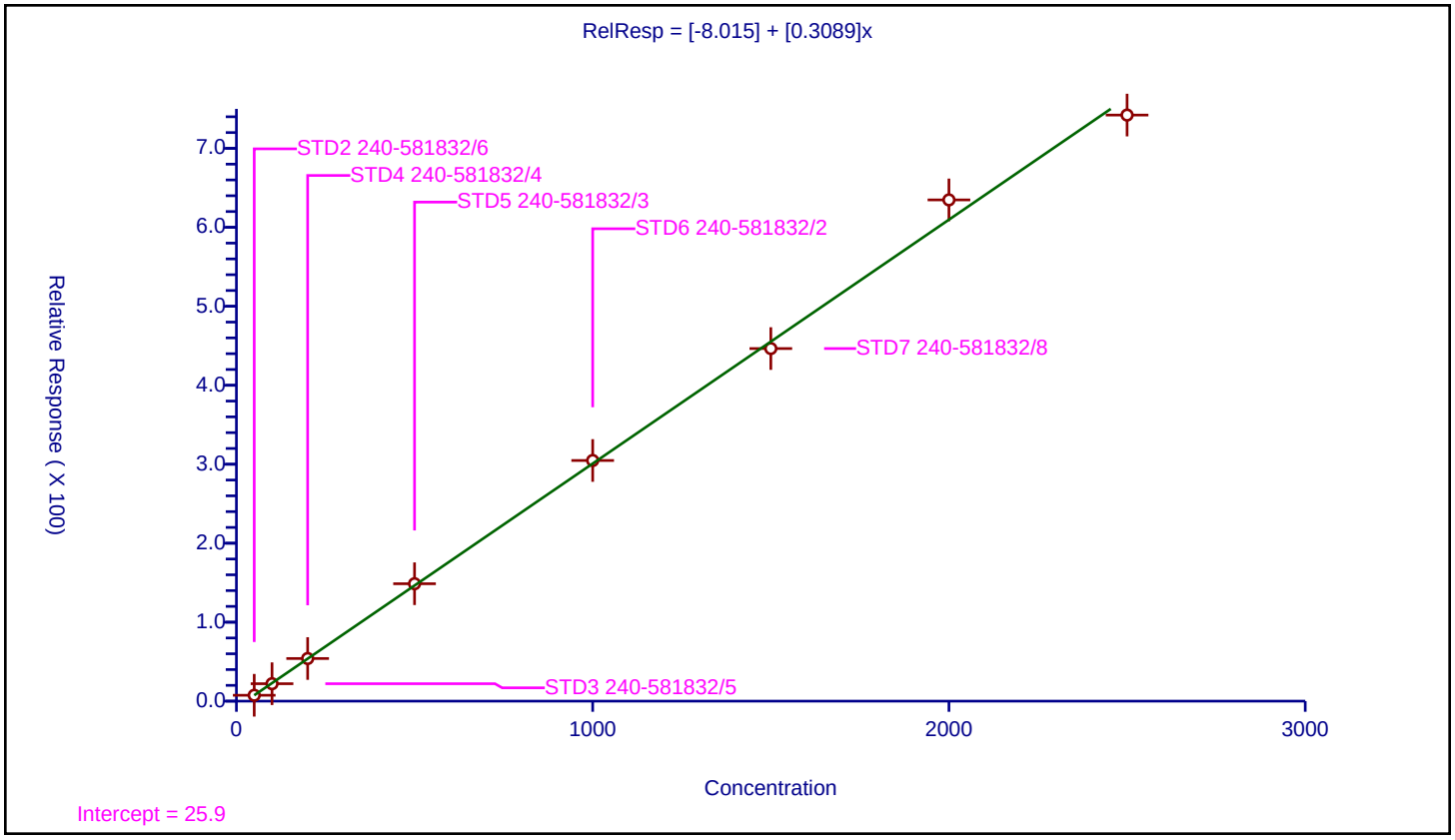
Curve Coefficients

Intercept:	-8.015
Slope:	0.3089

Error Coefficients

Standard Error:	1250000
Relative Standard Error:	2.5
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581832/6	50.0	7.442168	400.0	978747.0	0.148843	Y
2	STD3 240-581832/5	100.0	22.088627	400.0	985068.0	0.220886	Y
3	STD4 240-581832/4	200.0	53.991519	400.0	1016167.0	0.269958	Y
4	STD5 240-581832/3	500.0	148.69301	400.0	1047062.0	0.297386	Y
5	STD6 240-581832/2	1000.0	304.74653	400.0	1043141.0	0.304747	Y
6	STD7 240-581832/8	1500.0	446.513153	400.0	1012591.0	0.297675	Y
7	STD8 240-581832/9	2000.0	634.7608	400.0	1108047.0	0.31738	Y
8	STD9 240-581832/10	2500.0	742.190005	400.0	1110244.0	0.296876	Y



8/12/2023
10:47 AM

Calibration / 2-Methylnaphthalene

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

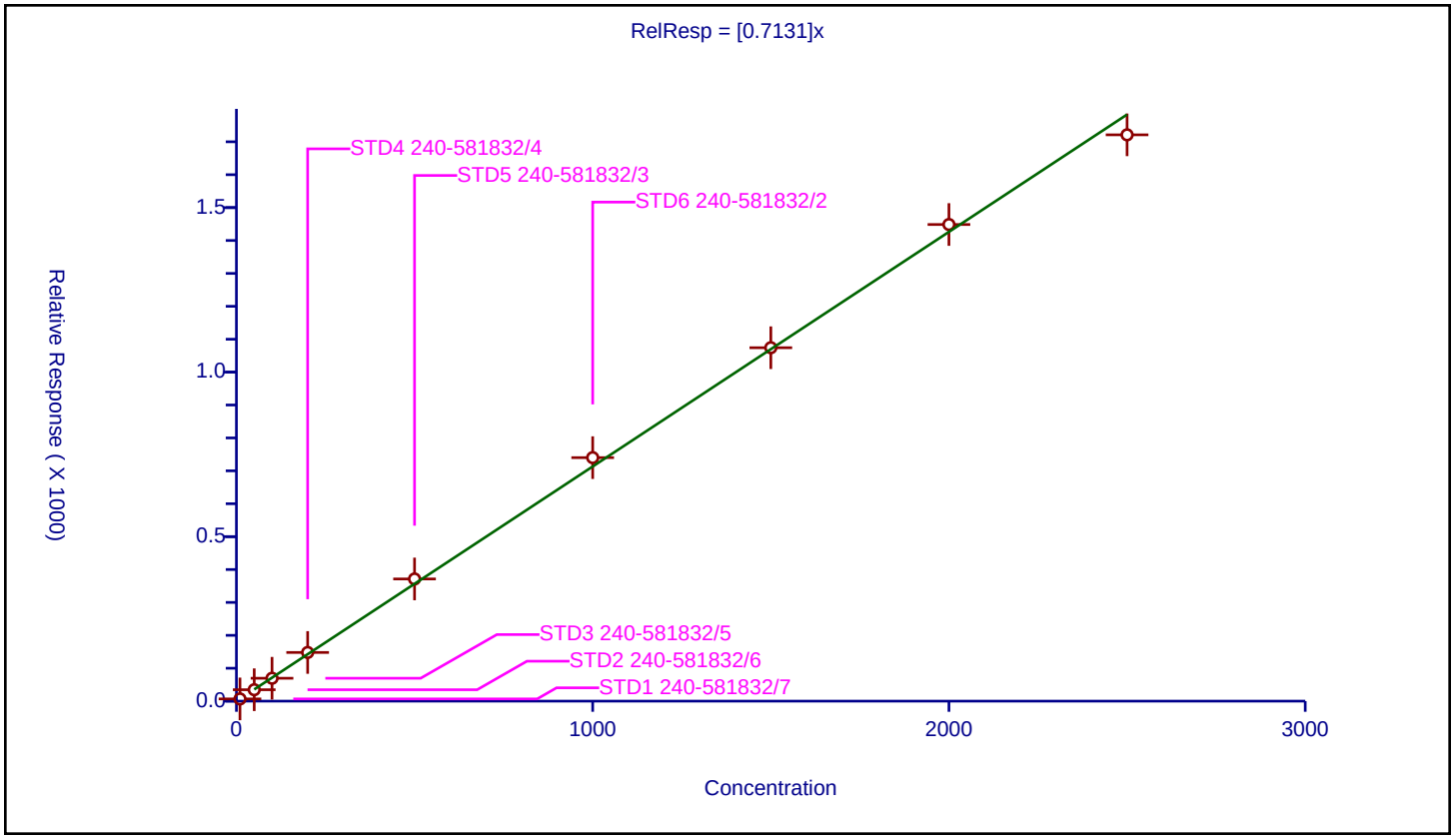
Curve Coefficients

Intercept:	0
Slope:	0.7131

Error Coefficients

Standard Error:	2530000
Relative Standard Error:	3.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 240-581832/7	10.0	6.77891	400.0	1011726.0	0.677891	Y
2	STD2 240-581832/6	50.0	34.658191	400.0	978747.0	0.693164	Y
3	STD3 240-581832/5	100.0	69.590729	400.0	985068.0	0.695907	Y
4	STD4 240-581832/4	200.0	147.91427	400.0	1016167.0	0.739571	Y
5	STD5 240-581832/3	500.0	371.333121	400.0	1047062.0	0.742666	Y
6	STD6 240-581832/2	1000.0	740.098989	400.0	1043141.0	0.740099	Y
7	STD7 240-581832/8	1500.0	1074.144645	400.0	1012591.0	0.716096	Y
8	STD8 240-581832/9	2000.0	1448.636385	400.0	1108047.0	0.724318	Y
9	STD9 240-581832/10	2500.0	1721.137696	400.0	1110244.0	0.688455	Y



Calibration / 1-Methylnaphthalene

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

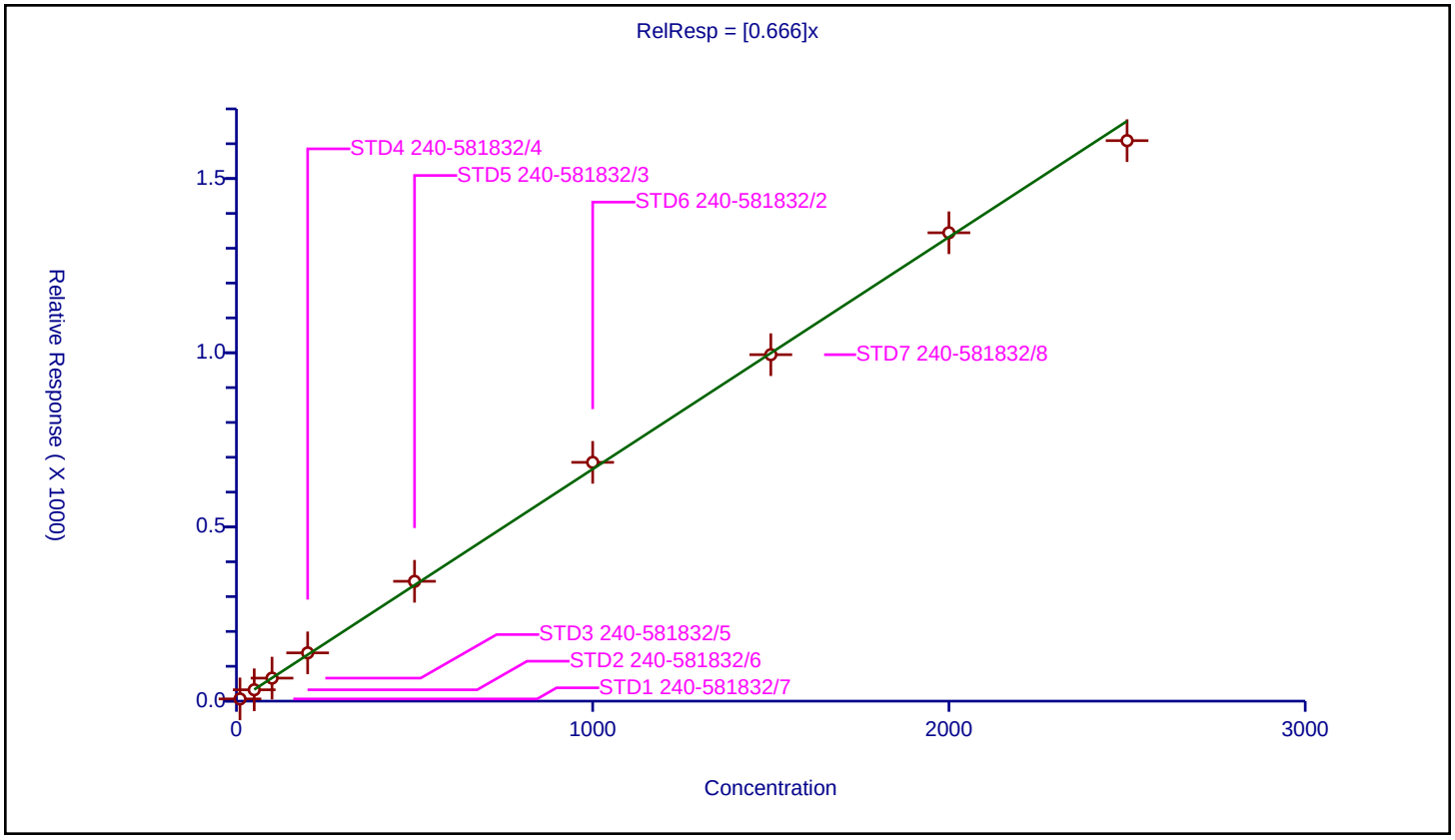
Curve Coefficients

Intercept:	0
Slope:	0.666

Error Coefficients

Standard Error:	2350000
Relative Standard Error:	3.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 240-581832/7	10.0	6.361406	400.0	1011726.0	0.636141	Y
2	STD2 240-581832/6	50.0	32.591058	400.0	978747.0	0.651821	Y
3	STD3 240-581832/5	100.0	66.098178	400.0	985068.0	0.660982	Y
4	STD4 240-581832/4	200.0	138.570924	400.0	1016167.0	0.692855	Y
5	STD5 240-581832/3	500.0	343.975428	400.0	1047062.0	0.687951	Y
6	STD6 240-581832/2	1000.0	685.412231	400.0	1043141.0	0.685412	Y
7	STD7 240-581832/8	1500.0	994.54607	400.0	1012591.0	0.663031	Y
8	STD8 240-581832/9	2000.0	1344.462464	400.0	1108047.0	0.672231	Y
9	STD9 240-581832/10	2500.0	1608.849226	400.0	1110244.0	0.64354	Y



Calibration / Hexachlorocyclopentadiene

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

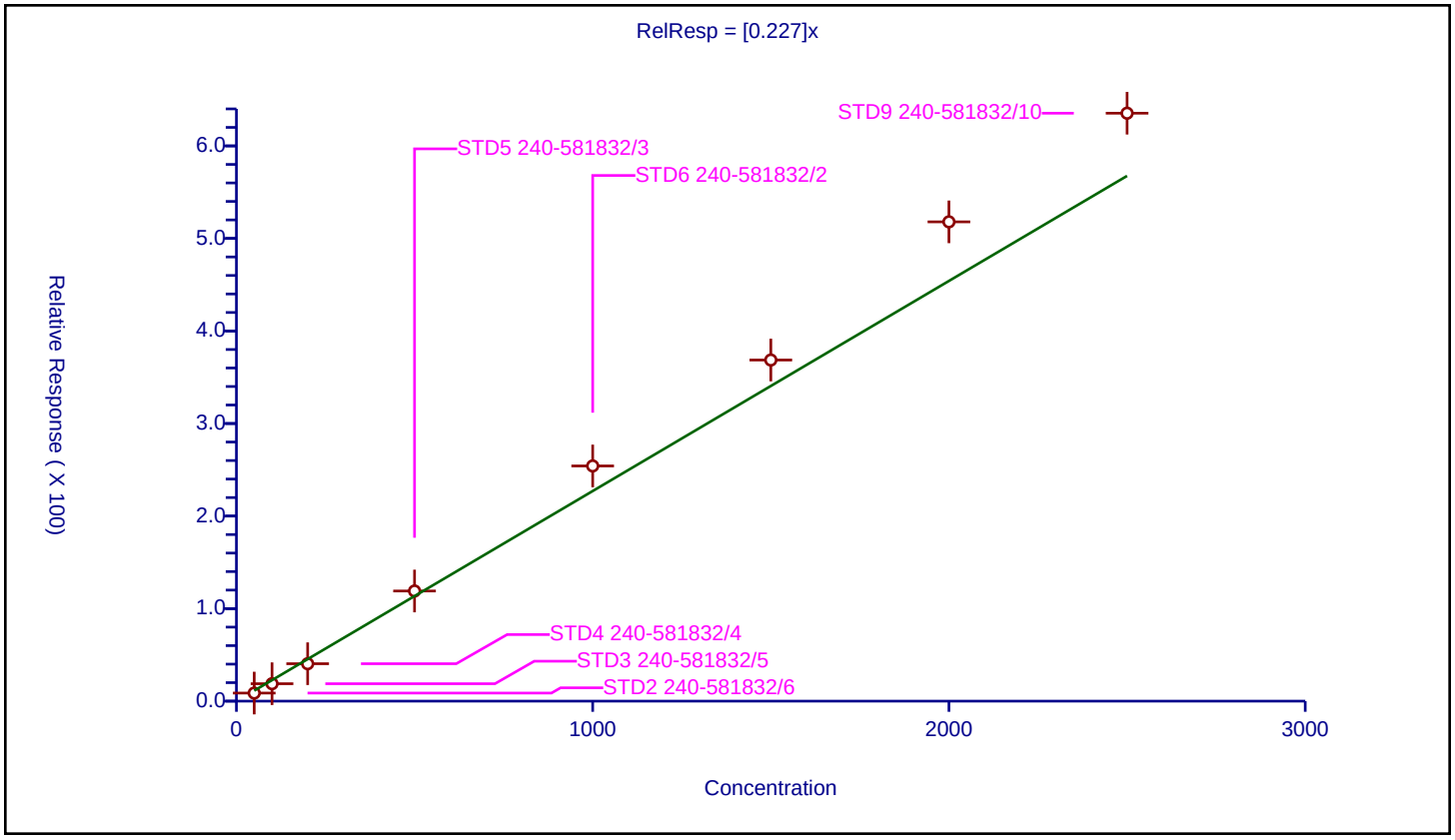
Curve Coefficients

Intercept:	0
Slope:	0.227

Error Coefficients

Standard Error:	508000
Relative Standard Error:	14.7
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.975

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581832/6	50.0	8.728047	400.0	503572.0	0.174561	Y
2	STD3 240-581832/5	100.0	18.847863	400.0	515008.0	0.188479	Y
3	STD4 240-581832/4	200.0	40.444504	400.0	542897.0	0.202223	Y
4	STD5 240-581832/3	500.0	119.026137	400.0	528452.0	0.238052	Y
5	STD6 240-581832/2	1000.0	254.143128	400.0	537058.0	0.254143	Y
6	STD7 240-581832/8	1500.0	368.608616	400.0	528833.0	0.245739	Y
7	STD8 240-581832/9	2000.0	517.930403	400.0	588018.0	0.258965	Y
8	STD9 240-581832/10	2500.0	635.334332	400.0	578661.0	0.254134	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

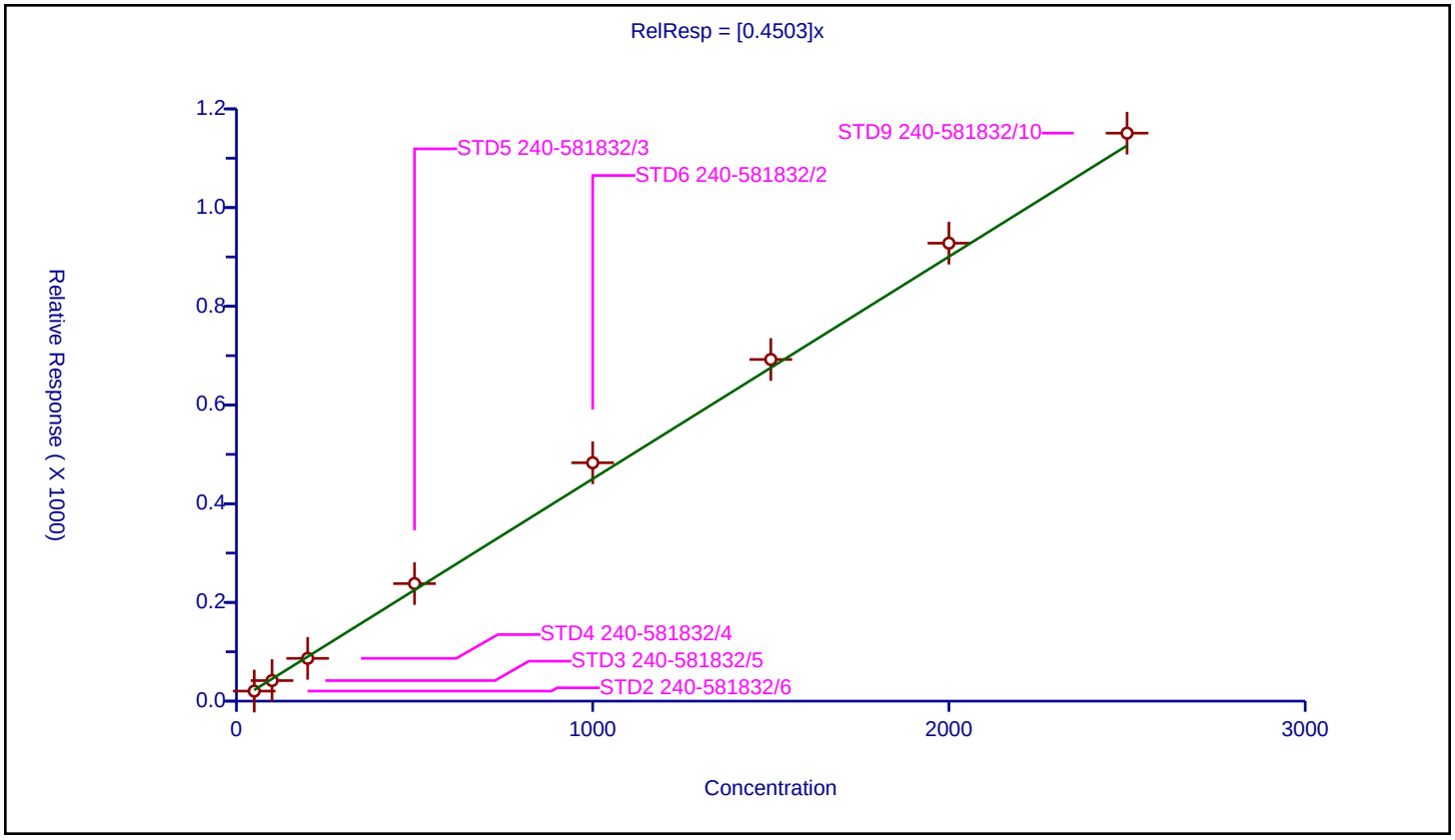
Curve Coefficients

Intercept:	0
Slope:	0.4503

Error Coefficients

Standard Error:	926000
Relative Standard Error:	6.2
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581832/6	50.0	20.382388	400.0	503572.0	0.407648	Y
2	STD3 240-581832/5	100.0	41.656052	400.0	515008.0	0.416561	Y
3	STD4 240-581832/4	200.0	86.64627	400.0	542897.0	0.433231	Y
4	STD5 240-581832/3	500.0	238.153702	400.0	528452.0	0.476307	Y
5	STD6 240-581832/2	1000.0	483.02269	400.0	537058.0	0.483023	Y
6	STD7 240-581832/8	1500.0	692.276012	400.0	528833.0	0.461517	Y
7	STD8 240-581832/9	2000.0	927.889282	400.0	588018.0	0.463945	Y
8	STD9 240-581832/10	2500.0	1150.873482	400.0	578661.0	0.460349	Y



8/12/2023
10:47 AM

Calibration / 2,4,6-Trichlorophenol

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

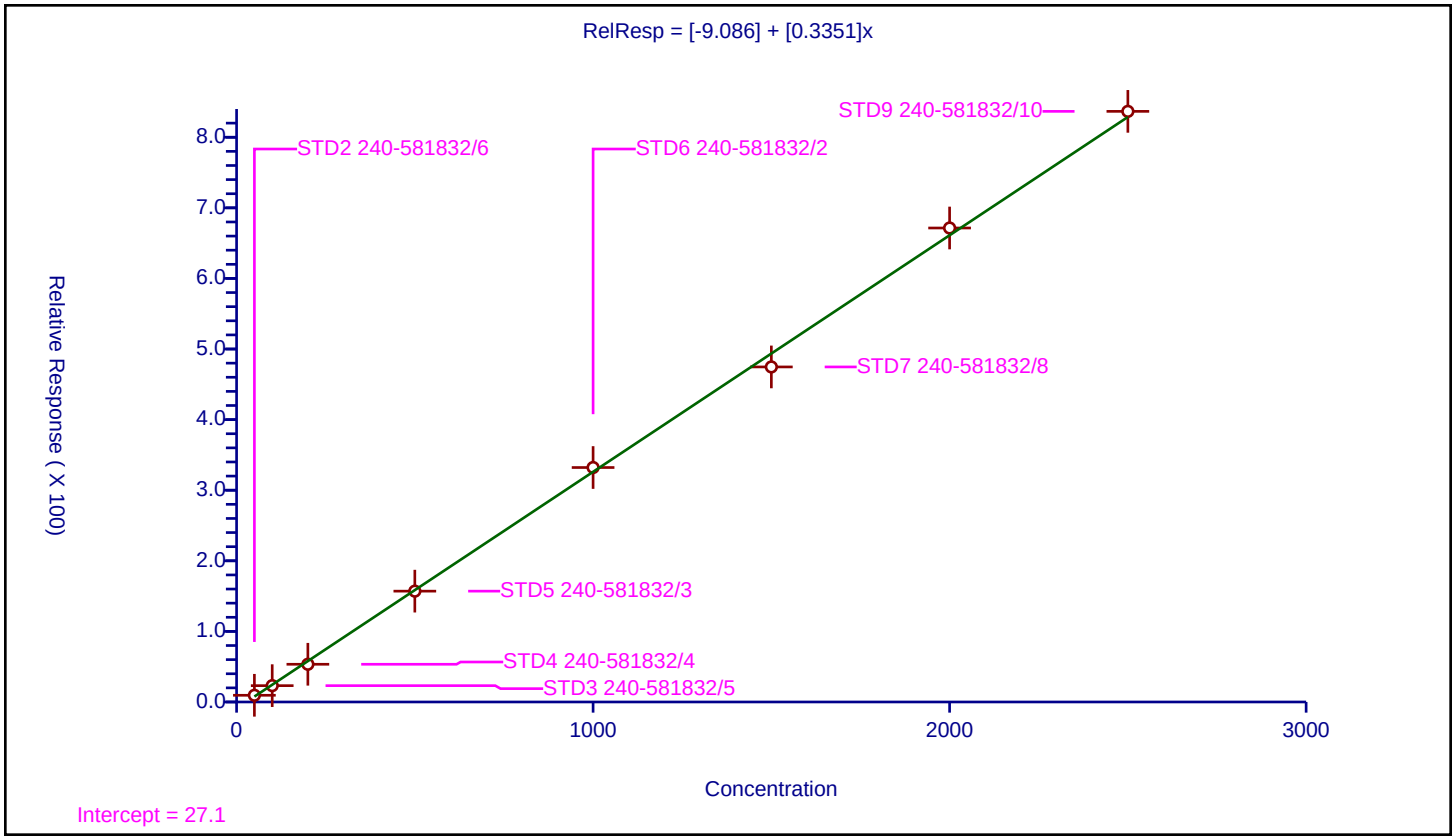
Curve Coefficients

Intercept:	-9.086
Slope:	0.3351

Error Coefficients

Standard Error:	716000
Relative Standard Error:	5.8
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581832/6	50.0	9.500131	400.0	503572.0	0.190003	Y
2	STD3 240-581832/5	100.0	23.125078	400.0	515008.0	0.231251	Y
3	STD4 240-581832/4	200.0	53.43555	400.0	542897.0	0.267178	Y
4	STD5 240-581832/3	500.0	157.020127	400.0	528452.0	0.31404	Y
5	STD6 240-581832/2	1000.0	332.145876	400.0	537058.0	0.332146	Y
6	STD7 240-581832/8	1500.0	474.633013	400.0	528833.0	0.316422	Y
7	STD8 240-581832/9	2000.0	671.44135	400.0	588018.0	0.335721	Y
8	STD9 240-581832/10	2500.0	836.673631	400.0	578661.0	0.334669	Y



8/12/2023
10:47 AM

Calibration / 2,4,5-Trichlorophenol

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

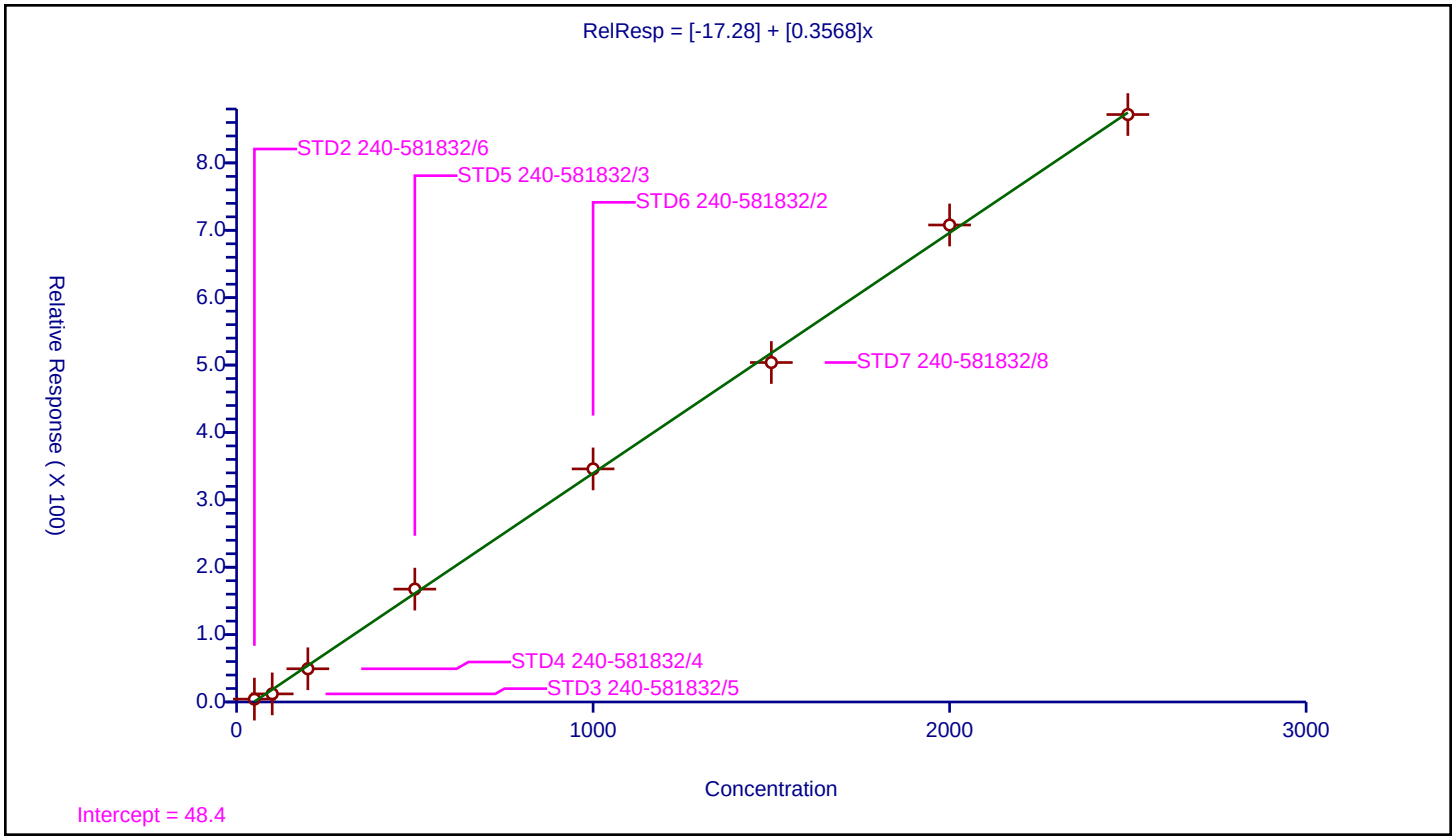
Curve Coefficients

Intercept:	-17.28
Slope:	0.3568

Error Coefficients

Standard Error:	751000
Relative Standard Error:	11.7
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581832/6	50.0	4.243286	400.0	503572.0	0.084866	Y
2	STD3 240-581832/5	100.0	11.99127	400.0	515008.0	0.119913	Y
3	STD4 240-581832/4	200.0	49.275645	400.0	542897.0	0.246378	Y
4	STD5 240-581832/3	500.0	167.492223	400.0	528452.0	0.334984	Y
5	STD6 240-581832/2	1000.0	345.899326	400.0	537058.0	0.345899	Y
6	STD7 240-581832/8	1500.0	503.805171	400.0	528833.0	0.33587	Y
7	STD8 240-581832/9	2000.0	707.898058	400.0	588018.0	0.353949	Y
8	STD9 240-581832/10	2500.0	871.822362	400.0	578661.0	0.348729	Y



8/12/2023
10:47 AM

Calibration / 2-Fluorobiphenyl (Surr)

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

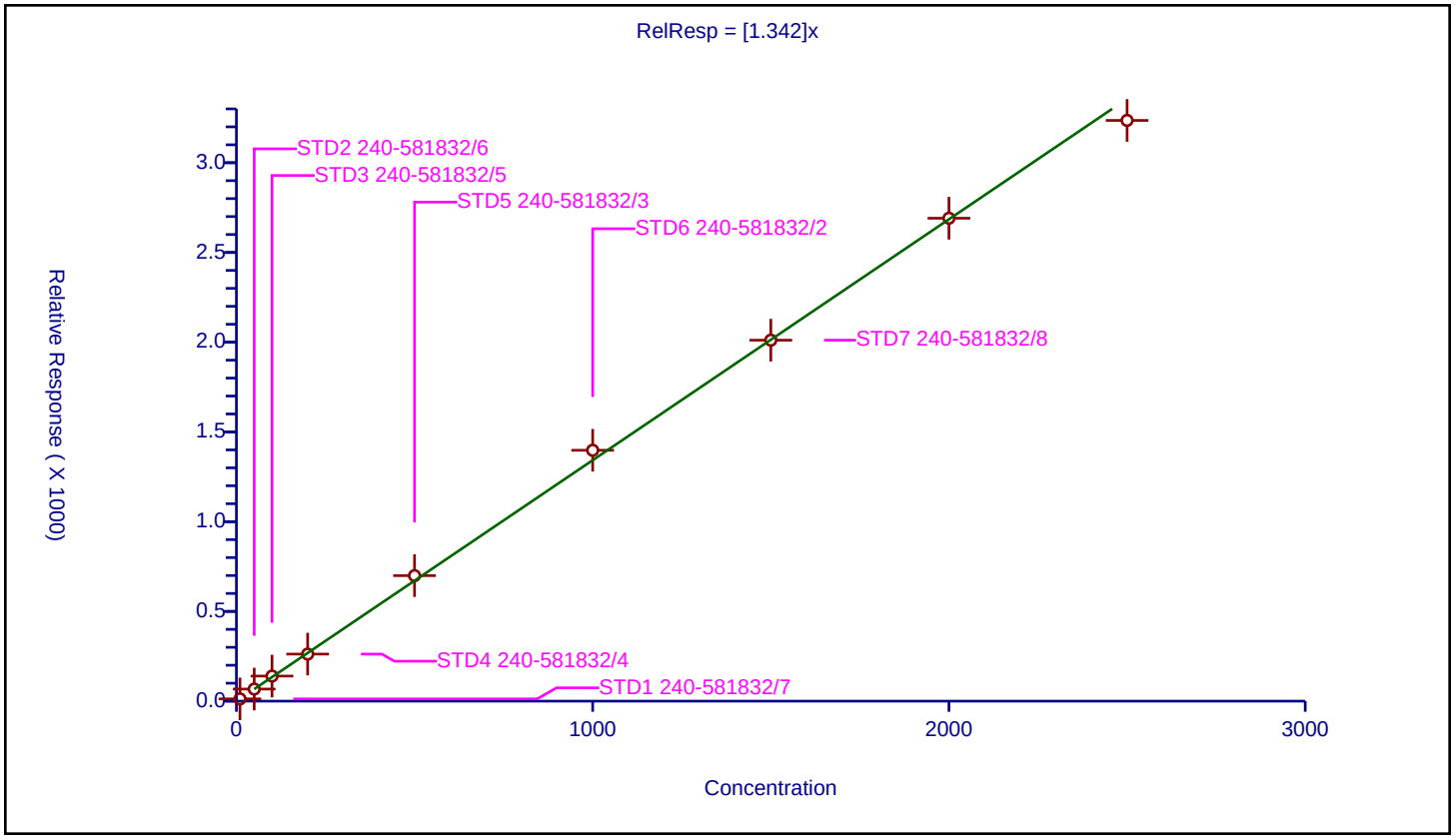
Curve Coefficients

Intercept:	0
Slope:	1.342

Error Coefficients

Standard Error:	2480000
Relative Standard Error:	3.8
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 240-581832/7	10.0	12.492764	400.0	516523.0	1.249276	Y
2	STD2 240-581832/6	50.0	67.364349	400.0	503572.0	1.347287	Y
3	STD3 240-581832/5	100.0	139.727538	400.0	515008.0	1.397275	Y
4	STD4 240-581832/4	200.0	262.182329	400.0	542897.0	1.310912	Y
5	STD5 240-581832/3	500.0	699.412624	400.0	528452.0	1.398825	Y
6	STD6 240-581832/2	1000.0	1397.840829	400.0	537058.0	1.397841	Y
7	STD7 240-581832/8	1500.0	2011.243625	400.0	528833.0	1.340829	Y
8	STD8 240-581832/9	2000.0	2690.762528	400.0	588018.0	1.345381	Y
9	STD9 240-581832/10	2500.0	3235.767401	400.0	578661.0	1.294307	Y



8/12/2023
10:47 AM

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

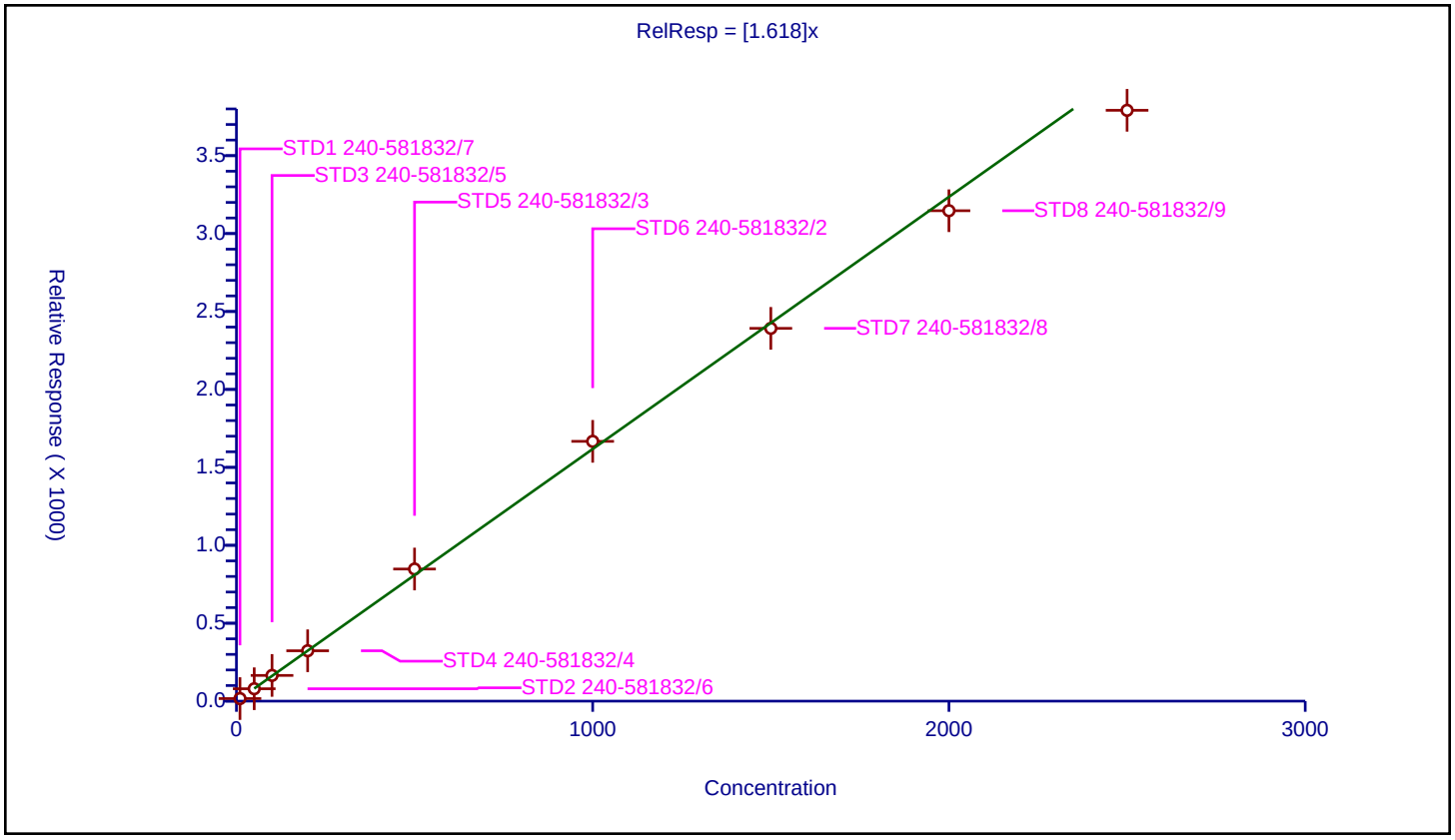
Curve Coefficients

Intercept:	0
Slope:	1.618

Error Coefficients

Standard Error:	2910000
Relative Standard Error:	3.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 240-581832/7	10.0	16.56538	400.0	516523.0	1.656538	Y
2	STD2 240-581832/6	50.0	79.491314	400.0	503572.0	1.589826	Y
3	STD3 240-581832/5	100.0	165.002485	400.0	515008.0	1.650025	Y
4	STD4 240-581832/4	200.0	323.240688	400.0	542897.0	1.616203	Y
5	STD5 240-581832/3	500.0	847.697047	400.0	528452.0	1.695394	Y
6	STD6 240-581832/2	1000.0	1666.951428	400.0	537058.0	1.666951	Y
7	STD7 240-581832/8	1500.0	2391.940745	400.0	528833.0	1.594627	Y
8	STD8 240-581832/9	2000.0	3146.756732	400.0	588018.0	1.573378	Y
9	STD9 240-581832/10	2500.0	3790.868229	400.0	578661.0	1.516347	Y



Calibration / 2-Chloronaphthalene

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

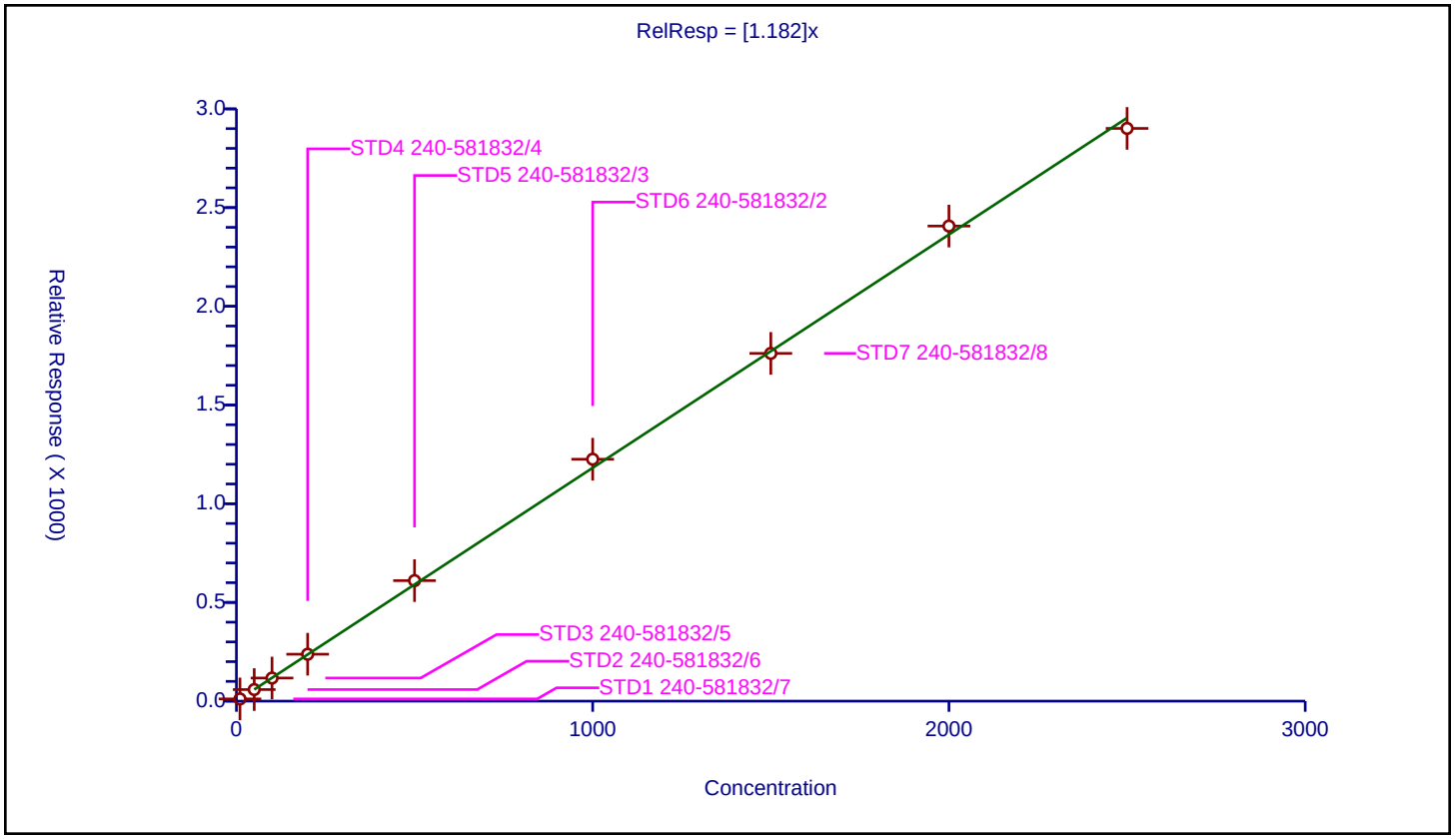
Curve Coefficients

Intercept:	0
Slope:	1.182

Error Coefficients

Standard Error:	2210000
Relative Standard Error:	2.8
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 240-581832/7	10.0	11.197952	400.0	516523.0	1.119795	Y
2	STD2 240-581832/6	50.0	58.659338	400.0	503572.0	1.173187	Y
3	STD3 240-581832/5	100.0	116.974494	400.0	515008.0	1.169745	Y
4	STD4 240-581832/4	200.0	237.677497	400.0	542897.0	1.188387	Y
5	STD5 240-581832/3	500.0	610.583364	400.0	528452.0	1.221167	Y
6	STD6 240-581832/2	1000.0	1225.399864	400.0	537058.0	1.2254	Y
7	STD7 240-581832/8	1500.0	1761.510344	400.0	528833.0	1.17434	Y
8	STD8 240-581832/9	2000.0	2406.466469	400.0	588018.0	1.203233	Y
9	STD9 240-581832/10	2500.0	2901.07334	400.0	578661.0	1.160429	Y



Calibration / 2-Nitroaniline

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

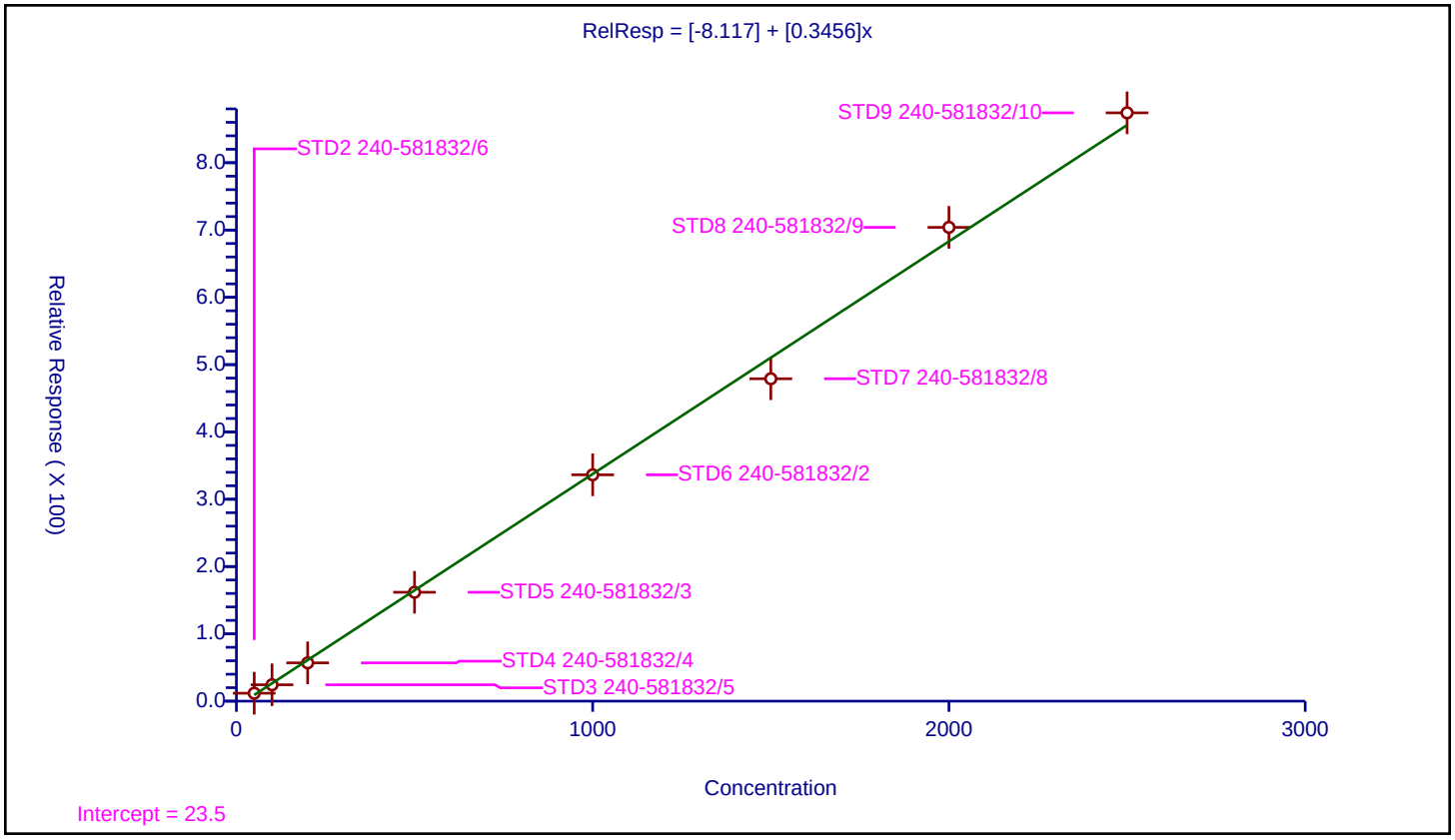
Curve Coefficients

Intercept:	-8.117
Slope:	0.3456

Error Coefficients

Standard Error:	744000
Relative Standard Error:	7.7
Correlation Coefficient:	0.991
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581832/6	50.0	11.759192	400.0	503572.0	0.235184	Y
2	STD3 240-581832/5	100.0	24.327389	400.0	515008.0	0.243274	Y
3	STD4 240-581832/4	200.0	56.89698	400.0	542897.0	0.284485	Y
4	STD5 240-581832/3	500.0	161.818292	400.0	528452.0	0.323637	Y
5	STD6 240-581832/2	1000.0	336.295894	400.0	537058.0	0.336296	Y
6	STD7 240-581832/8	1500.0	479.010954	400.0	528833.0	0.319341	Y
7	STD8 240-581832/9	2000.0	703.964164	400.0	588018.0	0.351982	Y
8	STD9 240-581832/10	2500.0	874.156026	400.0	578661.0	0.349662	Y



8/12/2023
10:47 AM

Calibration / Dimethyl phthalate

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

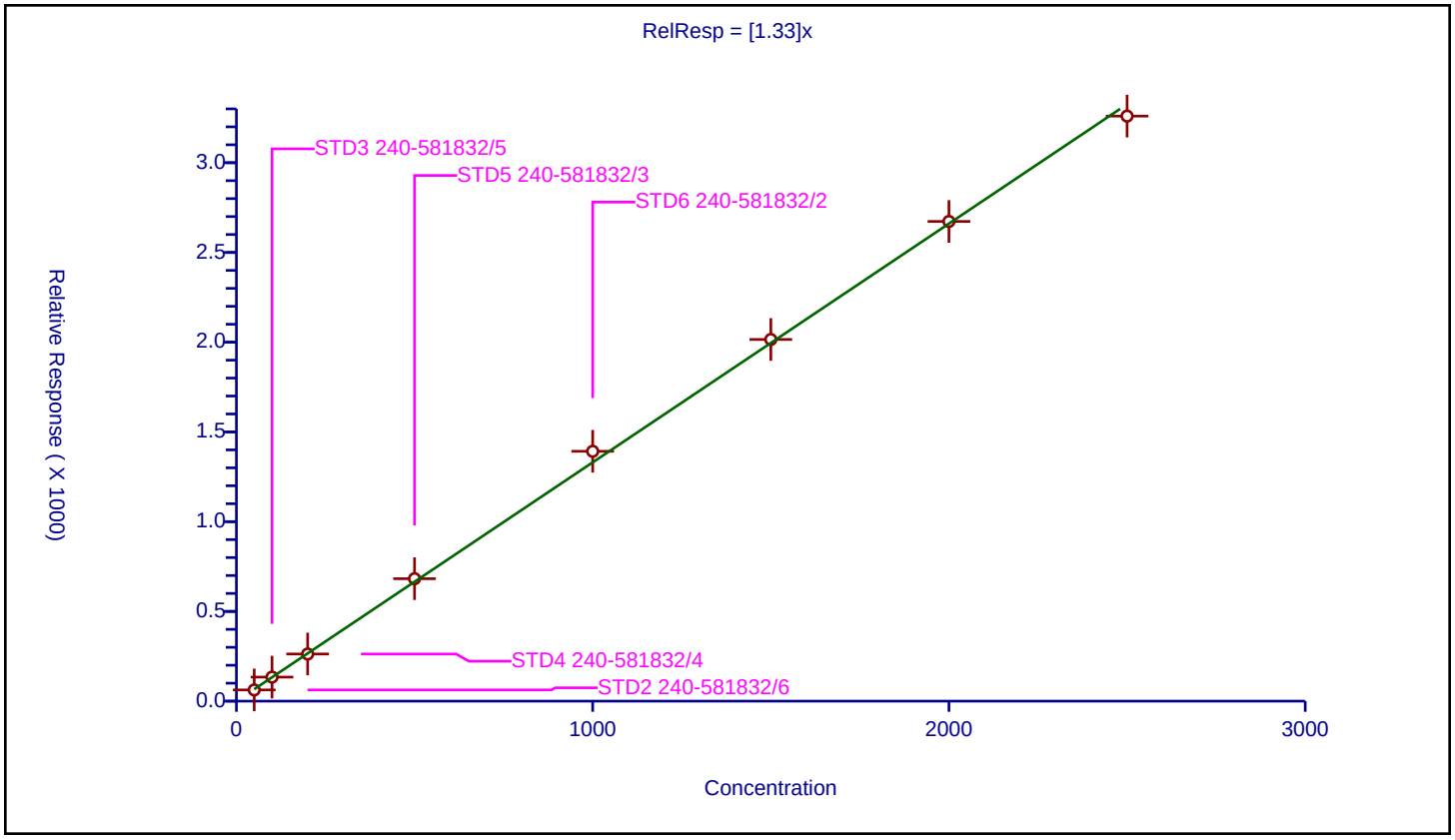
Curve Coefficients

Intercept:	0
Slope:	1.33

Error Coefficients

Standard Error:	2650000
Relative Standard Error:	3.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581832/6	50.0	62.500695	400.0	503572.0	1.250014	Y
2	STD3 240-581832/5	100.0	133.962191	400.0	515008.0	1.339622	Y
3	STD4 240-581832/4	200.0	262.59272	400.0	542897.0	1.312964	Y
4	STD5 240-581832/3	500.0	682.23112	400.0	528452.0	1.364462	Y
5	STD6 240-581832/2	1000.0	1392.173657	400.0	537058.0	1.392174	Y
6	STD7 240-581832/8	1500.0	2015.254721	400.0	528833.0	1.343503	Y
7	STD8 240-581832/9	2000.0	2672.781445	400.0	588018.0	1.336391	Y
8	STD9 240-581832/10	2500.0	3259.769018	400.0	578661.0	1.303908	Y



8/12/2023
10:47 AM

Calibration / 1,3-Dinitrobenzene

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

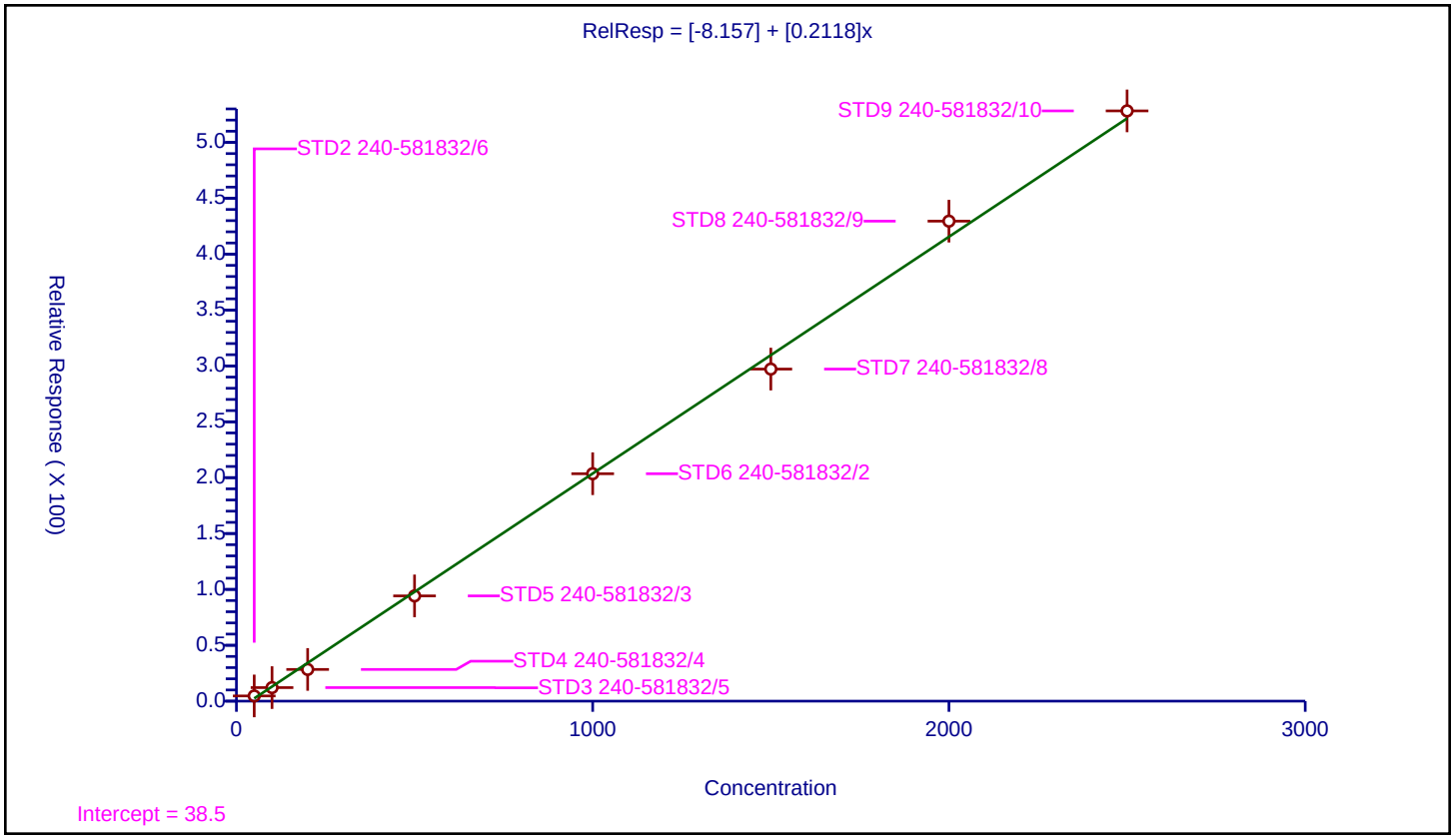
Curve Coefficients

Intercept:	-8.157
Slope:	0.2118

Error Coefficients

Standard Error:	452000
Relative Standard Error:	10.7
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581832/6	50.0	4.649186	400.0	503572.0	0.092984	Y
2	STD3 240-581832/5	100.0	12.113987	400.0	515008.0	0.12114	Y
3	STD4 240-581832/4	200.0	28.373706	400.0	542897.0	0.141869	Y
4	STD5 240-581832/3	500.0	94.189822	400.0	528452.0	0.18838	Y
5	STD6 240-581832/2	1000.0	203.513959	400.0	537058.0	0.203514	Y
6	STD7 240-581832/8	1500.0	297.159217	400.0	528833.0	0.198106	Y
7	STD8 240-581832/9	2000.0	429.546715	400.0	588018.0	0.214773	Y
8	STD9 240-581832/10	2500.0	528.212546	400.0	578661.0	0.211285	Y



Calibration / 2,6-Dinitrotoluene

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

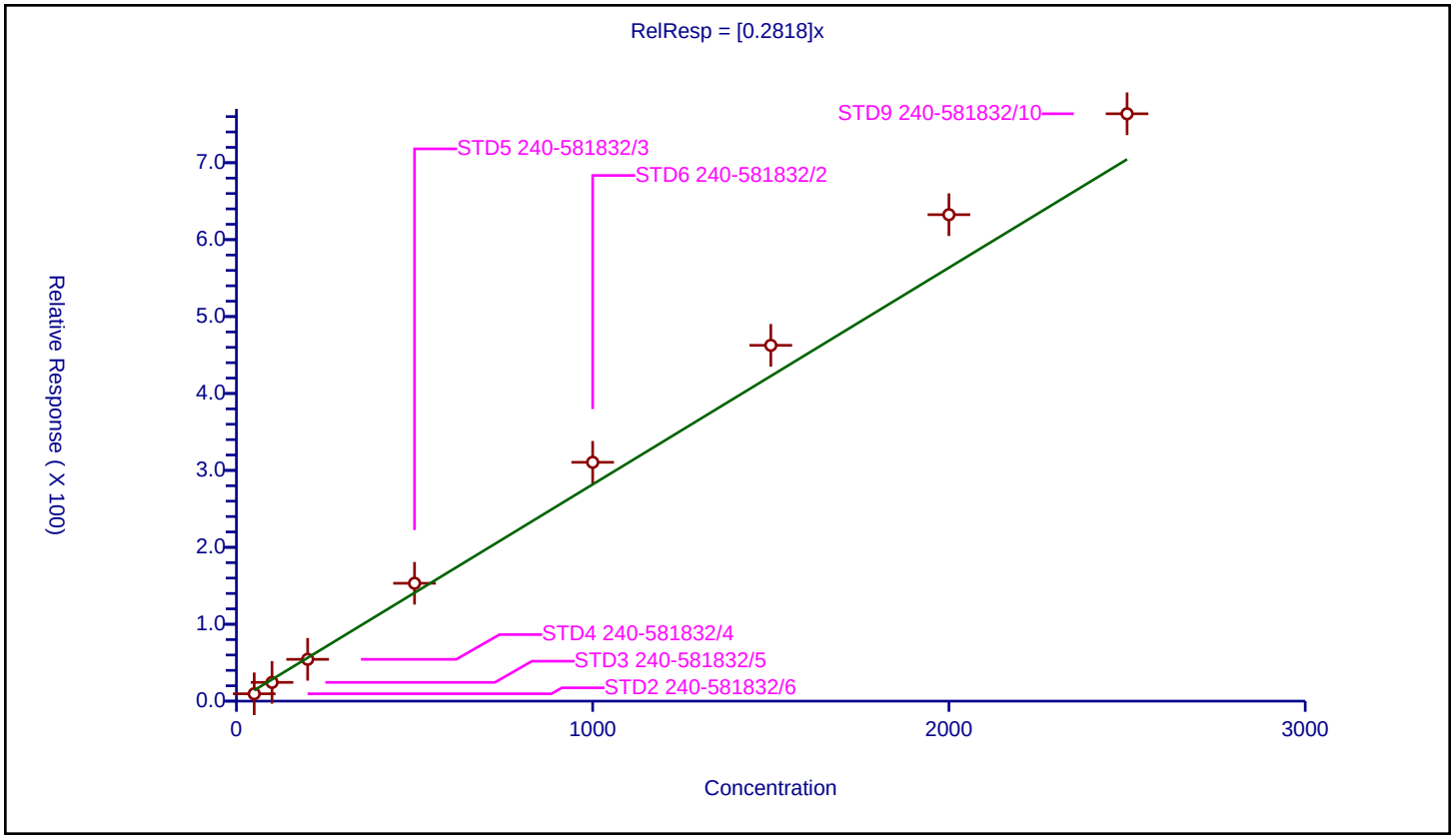
Curve Coefficients

Intercept:	0
Slope:	0.2818

Error Coefficients

Standard Error:	618000
Relative Standard Error:	15.6
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.973

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581832/6	50.0	9.57162	400.0	503572.0	0.191432	Y
2	STD3 240-581832/5	100.0	24.388747	400.0	515008.0	0.243887	Y
3	STD4 240-581832/4	200.0	54.349904	400.0	542897.0	0.27175	Y
4	STD5 240-581832/3	500.0	153.241543	400.0	528452.0	0.306483	Y
5	STD6 240-581832/2	1000.0	310.540016	400.0	537058.0	0.31054	Y
6	STD7 240-581832/8	1500.0	462.595942	400.0	528833.0	0.308397	Y
7	STD8 240-581832/9	2000.0	632.460911	400.0	588018.0	0.31623	Y
8	STD9 240-581832/10	2500.0	763.656096	400.0	578661.0	0.305462	Y



8/12/2023
10:47 AM

Calibration / Acenaphthylene

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

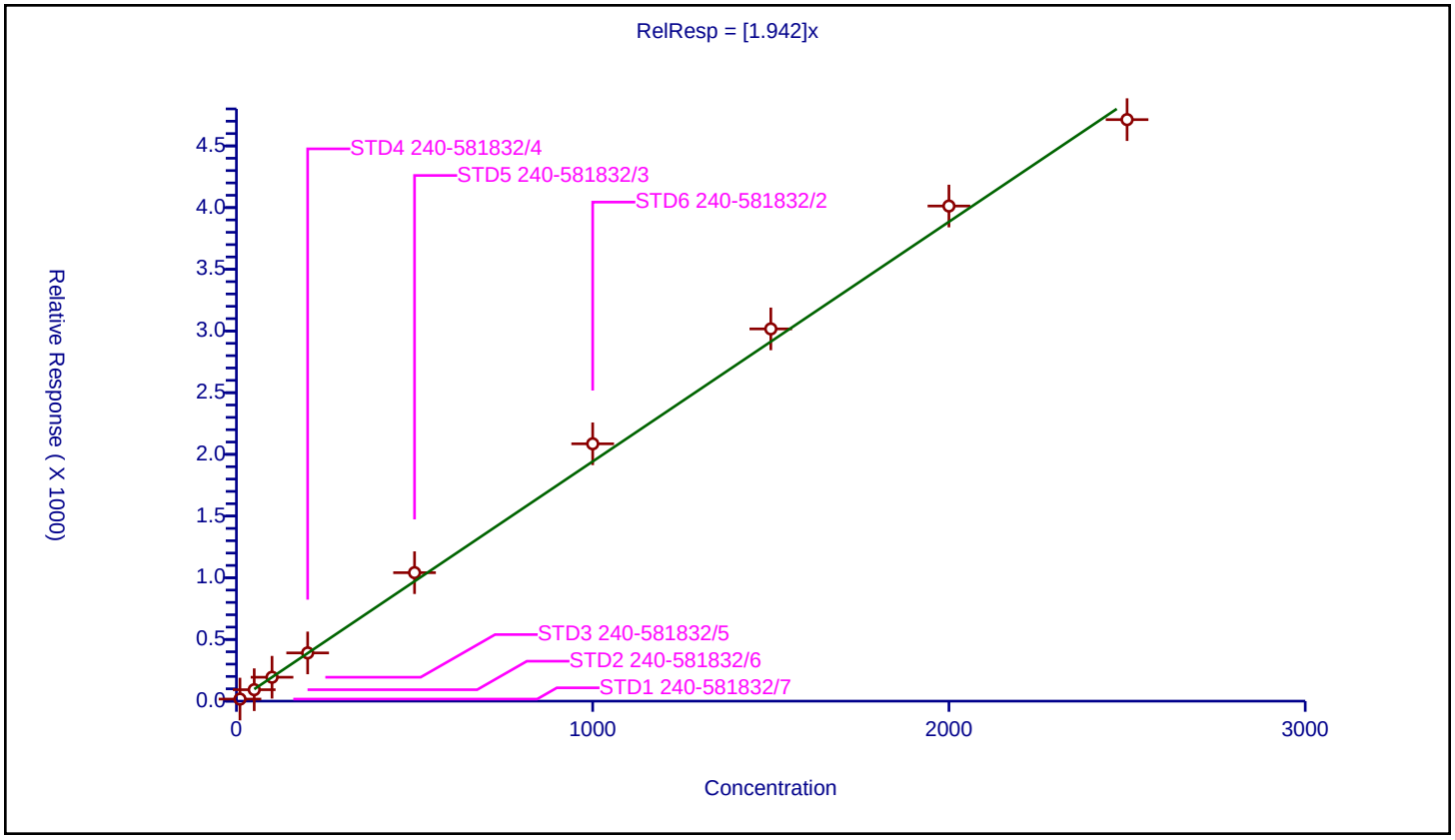
Curve Coefficients

Intercept:	0
Slope:	1.942

Error Coefficients

Standard Error:	3660000
Relative Standard Error:	6.8
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 240-581832/7	10.0	16.631205	400.0	516523.0	1.663121	Y
2	STD2 240-581832/6	50.0	92.795469	400.0	503572.0	1.855909	Y
3	STD3 240-581832/5	100.0	193.788058	400.0	515008.0	1.937881	Y
4	STD4 240-581832/4	200.0	390.851303	400.0	542897.0	1.954257	Y
5	STD5 240-581832/3	500.0	1041.26846	400.0	528452.0	2.082537	Y
6	STD6 240-581832/2	1000.0	2085.834305	400.0	537058.0	2.085834	Y
7	STD7 240-581832/8	1500.0	3017.025034	400.0	528833.0	2.01135	Y
8	STD8 240-581832/9	2000.0	4012.662197	400.0	588018.0	2.006331	Y
9	STD9 240-581832/10	2500.0	4713.083481	400.0	578661.0	1.885233	Y



Calibration / 3-Nitroaniline

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

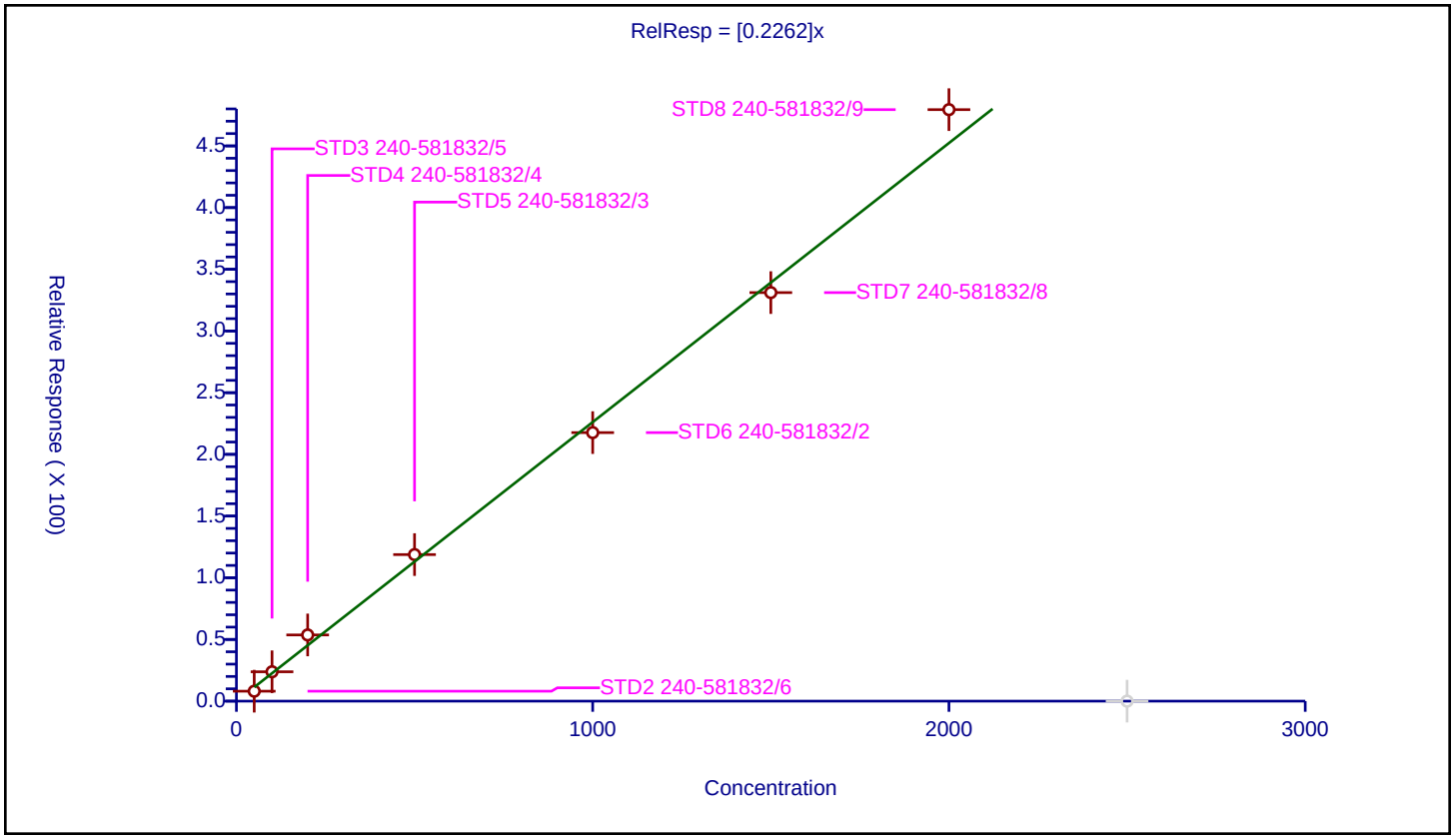
Curve Coefficients

Intercept:	0
Slope:	0.2262

Error Coefficients

Standard Error:	366000
Relative Standard Error:	14.6
Correlation Coefficient:	0.984
Coefficient of Determination (Adjusted):	0.973

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581832/6	50.0	8.060019	400.0	503572.0	0.1612	Y
2	STD3 240-581832/5	100.0	23.799242	400.0	515008.0	0.237992	Y
3	STD4 240-581832/4	200.0	53.644061	400.0	542897.0	0.26822	Y
4	STD5 240-581832/3	500.0	118.775594	400.0	528452.0	0.237551	Y
5	STD6 240-581832/2	1000.0	217.642787	400.0	537058.0	0.217643	Y
6	STD7 240-581832/8	1500.0	331.12684	400.0	528833.0	0.220751	Y
7	STD8 240-581832/9	2000.0	479.394168	400.0	588018.0	0.239697	Y
8	STD9 240-581832/10	2500.0	0.0	400.0	578661.0	0.0	N



Calibration / 2,4-Dinitrophenol

Curve Type:	Quadratic
Weighting:	None
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

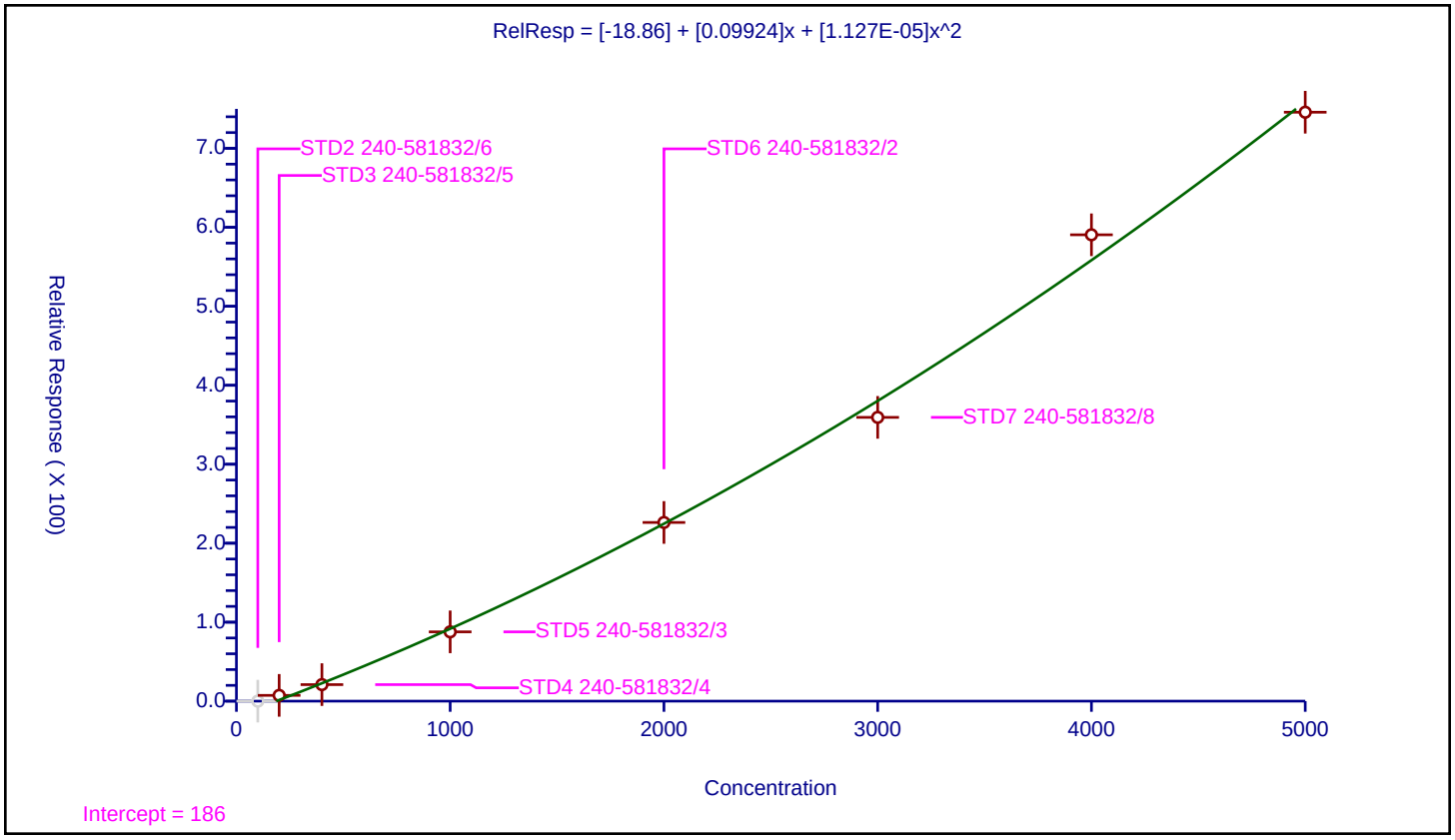
Curve Coefficients

Intercept:	-18.86
Slope:	0.09924
Second Order:	1.127E-05

Error Coefficients

Standard Error:	749000
Relative Standard Error:	14.6
Correlation Coefficient:	0.991
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581832/6	100.0	0.0	400.0	503572.0	0.0	N
2	STD3 240-581832/5	200.0	7.301634	400.0	515008.0	0.036508	Y
3	STD4 240-581832/4	400.0	20.940252	400.0	542897.0	0.052351	Y
4	STD5 240-581832/3	1000.0	87.75745	400.0	528452.0	0.087757	Y
5	STD6 240-581832/2	2000.0	226.255637	400.0	537058.0	0.113128	Y
6	STD7 240-581832/8	3000.0	359.358058	400.0	528833.0	0.119786	Y
7	STD8 240-581832/9	4000.0	590.57988	400.0	588018.0	0.147645	Y
8	STD9 240-581832/10	5000.0	745.792787	400.0	578661.0	0.149159	Y



Calibration / Acenaphthene

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

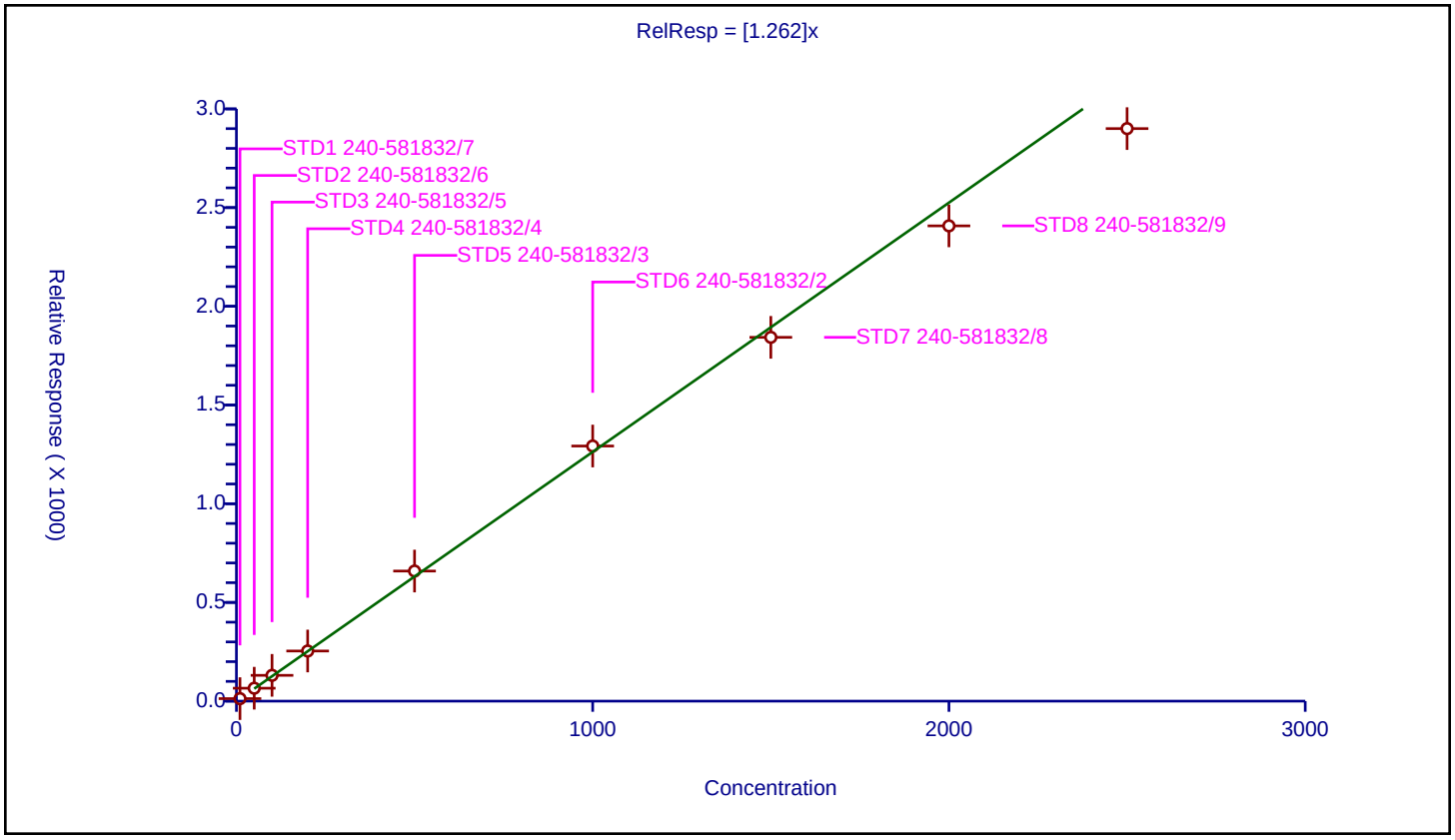
Curve Coefficients

Intercept:	0
Slope:	1.262

Error Coefficients

Standard Error:	2230000
Relative Standard Error:	4.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 240-581832/7	10.0	12.733605	400.0	516523.0	1.273361	Y
2	STD2 240-581832/6	50.0	65.482592	400.0	503572.0	1.309652	Y
3	STD3 240-581832/5	100.0	130.643407	400.0	515008.0	1.306434	Y
4	STD4 240-581832/4	200.0	254.024612	400.0	542897.0	1.270123	Y
5	STD5 240-581832/3	500.0	659.029013	400.0	528452.0	1.318058	Y
6	STD6 240-581832/2	1000.0	1292.221697	400.0	537058.0	1.292222	Y
7	STD7 240-581832/8	1500.0	1842.902391	400.0	528833.0	1.228602	Y
8	STD8 240-581832/9	2000.0	2407.423582	400.0	588018.0	1.203712	Y
9	STD9 240-581832/10	2500.0	2900.191304	400.0	578661.0	1.160077	Y



8/12/2023
10:47 AM

Calibration / 4-Nitrophenol

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

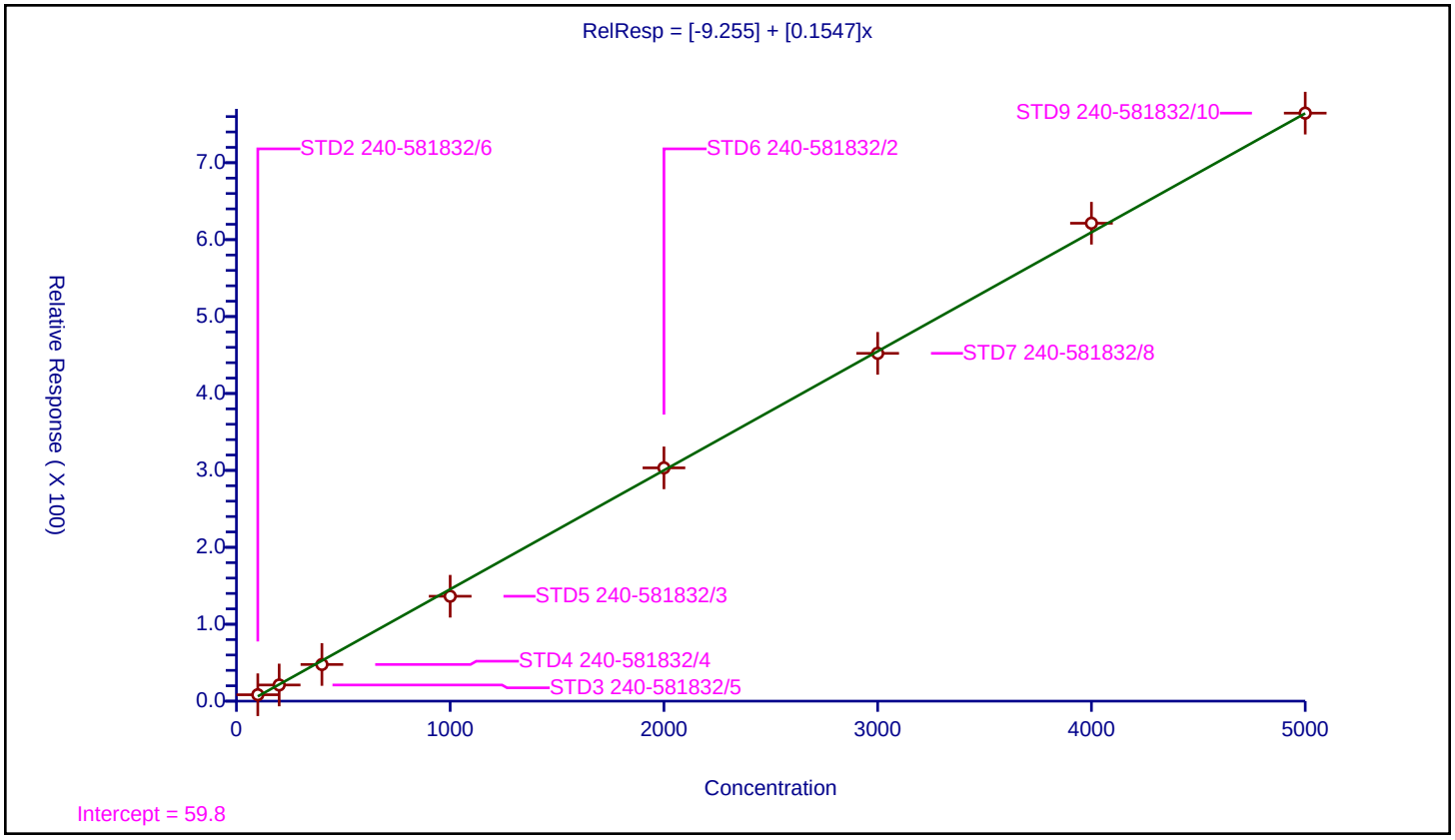
Curve Coefficients

Intercept:	-9.255
Slope:	0.1547

Error Coefficients

Standard Error:	660000
Relative Standard Error:	7.0
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581832/6	100.0	8.334856	400.0	503572.0	0.083349	Y
2	STD3 240-581832/5	200.0	21.002392	400.0	515008.0	0.105012	Y
3	STD4 240-581832/4	400.0	47.651765	400.0	542897.0	0.119129	Y
4	STD5 240-581832/3	1000.0	136.379463	400.0	528452.0	0.136379	Y
5	STD6 240-581832/2	2000.0	303.287913	400.0	537058.0	0.151644	Y
6	STD7 240-581832/8	3000.0	452.197196	400.0	528833.0	0.150732	Y
7	STD8 240-581832/9	4000.0	621.327919	400.0	588018.0	0.155332	Y
8	STD9 240-581832/10	5000.0	764.507717	400.0	578661.0	0.152902	Y



Calibration / 2,4-Dinitrotoluene

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

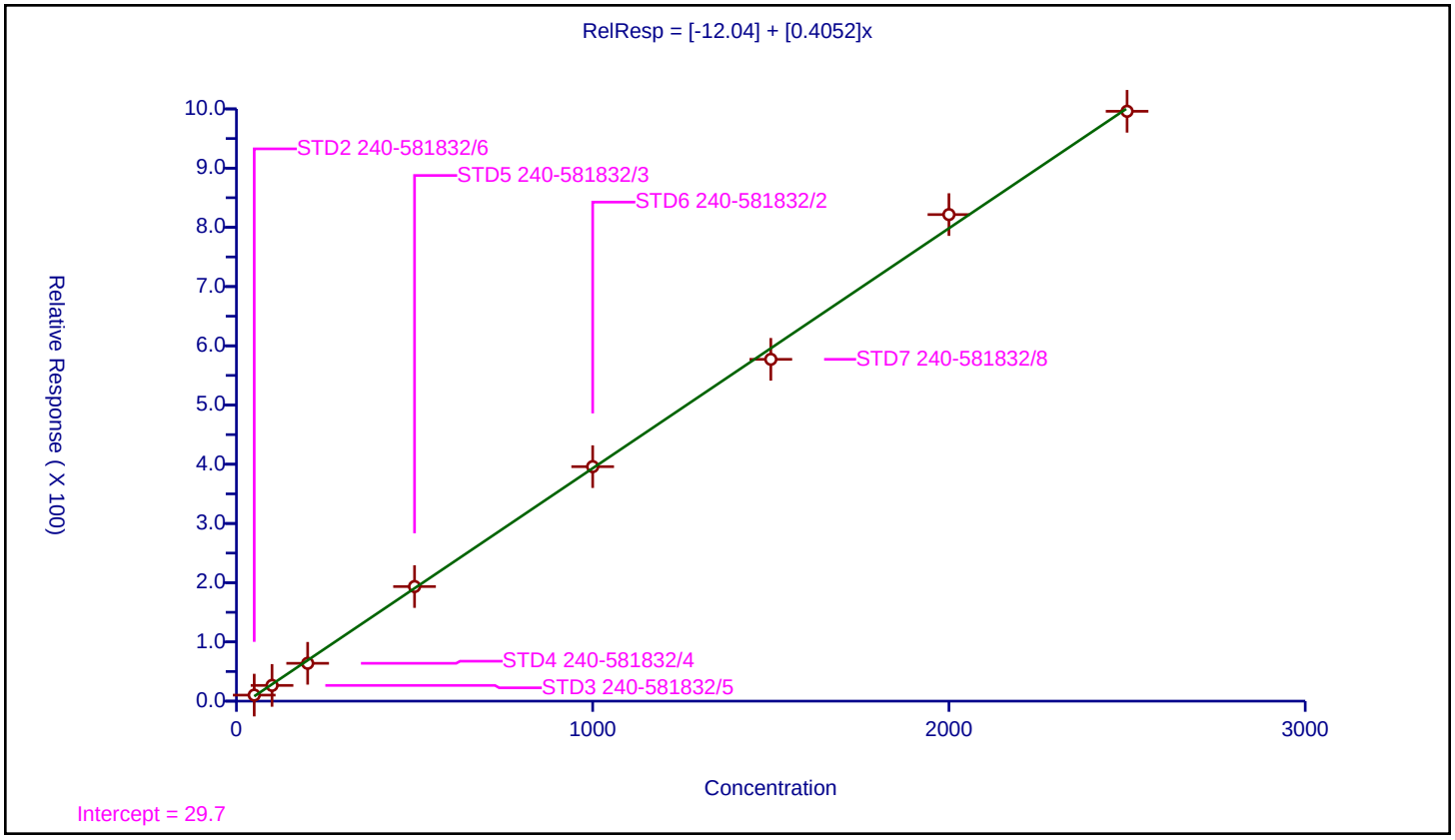
Curve Coefficients

Intercept:	-12.04
Slope:	0.4052

Error Coefficients

Standard Error:	863000
Relative Standard Error:	5.4
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581832/6	50.0	10.180074	400.0	503572.0	0.203601	Y
2	STD3 240-581832/5	100.0	26.570461	400.0	515008.0	0.265705	Y
3	STD4 240-581832/4	200.0	63.886888	400.0	542897.0	0.319434	Y
4	STD5 240-581832/3	500.0	193.477553	400.0	528452.0	0.386955	Y
5	STD6 240-581832/2	1000.0	395.961702	400.0	537058.0	0.395962	Y
6	STD7 240-581832/8	1500.0	577.142501	400.0	528833.0	0.384762	Y
7	STD8 240-581832/9	2000.0	821.540157	400.0	588018.0	0.41077	Y
8	STD9 240-581832/10	2500.0	995.966205	400.0	578661.0	0.398386	Y



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

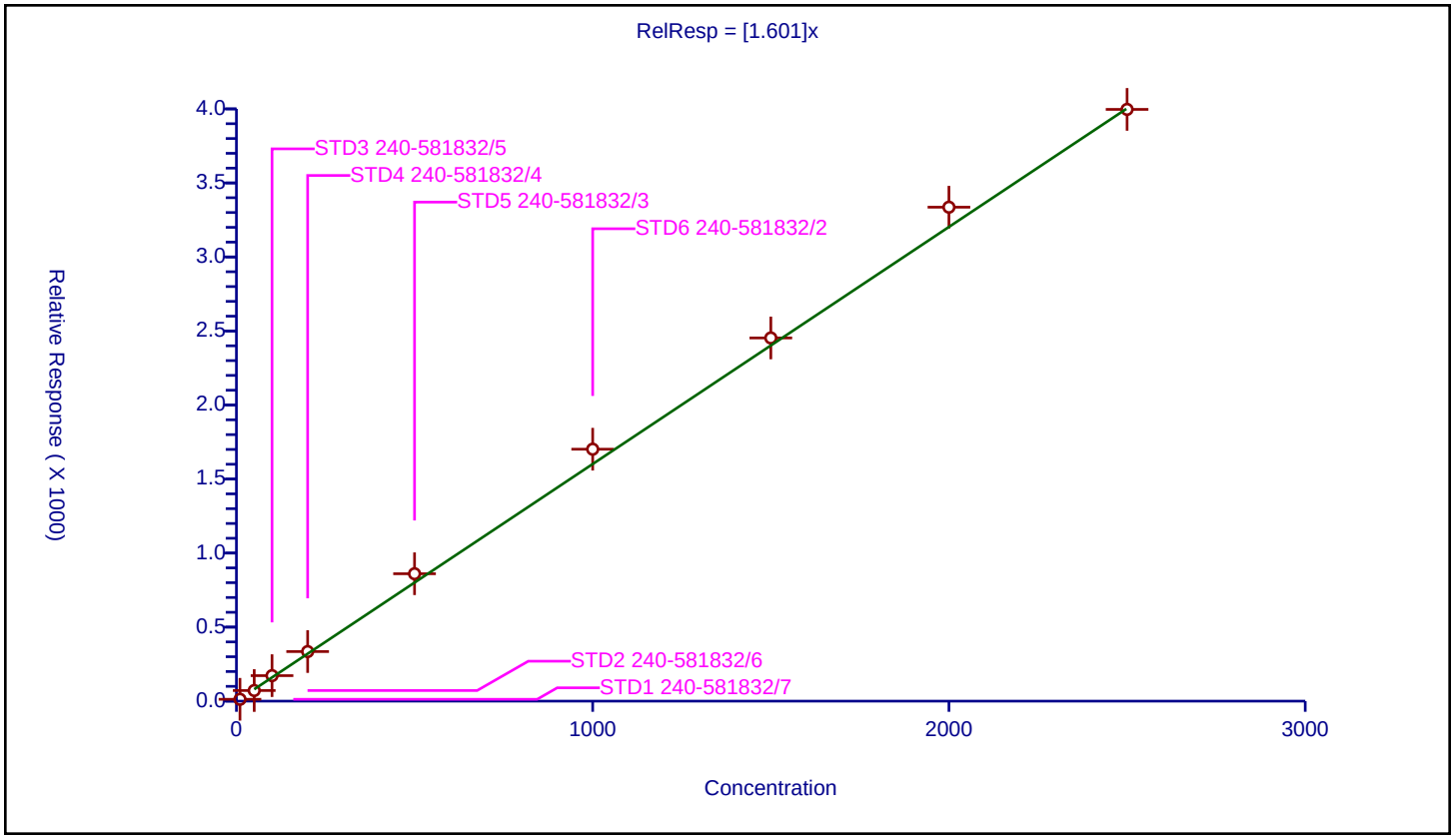
Curve Coefficients

Intercept:	0
Slope:	1.601

Error Coefficients

Standard Error:	3060000
Relative Standard Error:	9.8
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 240-581832/7	10.0	12.567882	400.0	516523.0	1.256788	Y
2	STD2 240-581832/6	50.0	71.75538	400.0	503572.0	1.435108	Y
3	STD3 240-581832/5	100.0	172.215577	400.0	515008.0	1.722156	Y
4	STD4 240-581832/4	200.0	334.789104	400.0	542897.0	1.673946	Y
5	STD5 240-581832/3	500.0	860.463391	400.0	528452.0	1.720927	Y
6	STD6 240-581832/2	1000.0	1701.551043	400.0	537058.0	1.701551	Y
7	STD7 240-581832/8	1500.0	2452.998962	400.0	528833.0	1.635333	Y
8	STD8 240-581832/9	2000.0	3335.970668	400.0	588018.0	1.667985	Y
9	STD9 240-581832/10	2500.0	3996.665405	400.0	578661.0	1.598666	Y



Calibration / 2,3,4,6-Tetrachlorophenol

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

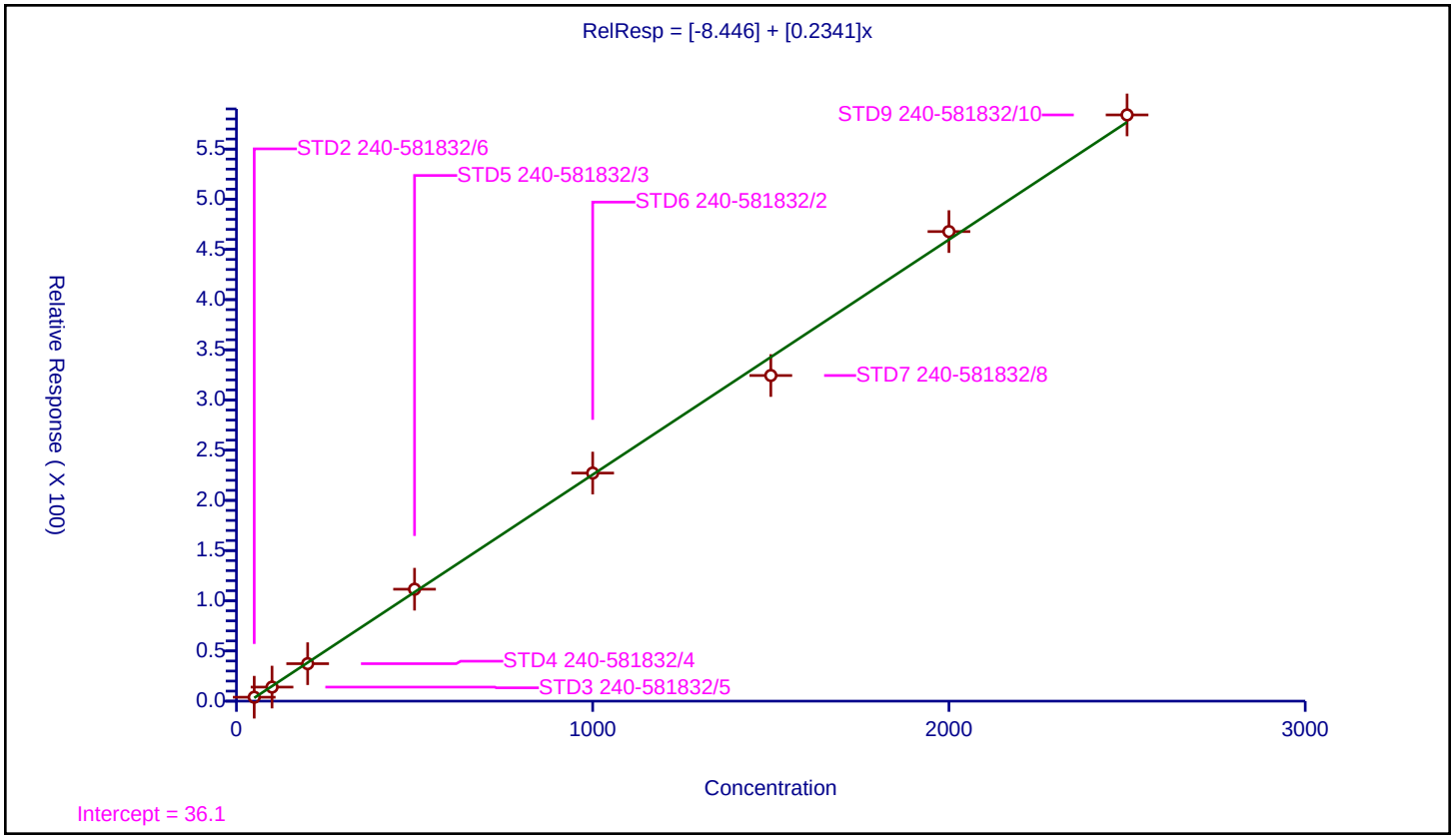
Curve Coefficients

Intercept:	-8.446
Slope:	0.2341

Error Coefficients

Standard Error:	498000
Relative Standard Error:	3.9
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581832/6	50.0	3.907286	400.0	503572.0	0.078146	Y
2	STD3 240-581832/5	100.0	13.992016	400.0	515008.0	0.13992	Y
3	STD4 240-581832/4	200.0	37.317576	400.0	542897.0	0.186588	Y
4	STD5 240-581832/3	500.0	111.492435	400.0	528452.0	0.222985	Y
5	STD6 240-581832/2	1000.0	227.223875	400.0	537058.0	0.227224	Y
6	STD7 240-581832/8	1500.0	324.392767	400.0	528833.0	0.216262	Y
7	STD8 240-581832/9	2000.0	467.791122	400.0	588018.0	0.233896	Y
8	STD9 240-581832/10	2500.0	583.997885	400.0	578661.0	0.233599	Y



8/12/2023
10:47 AM

Calibration / Diethyl phthalate

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

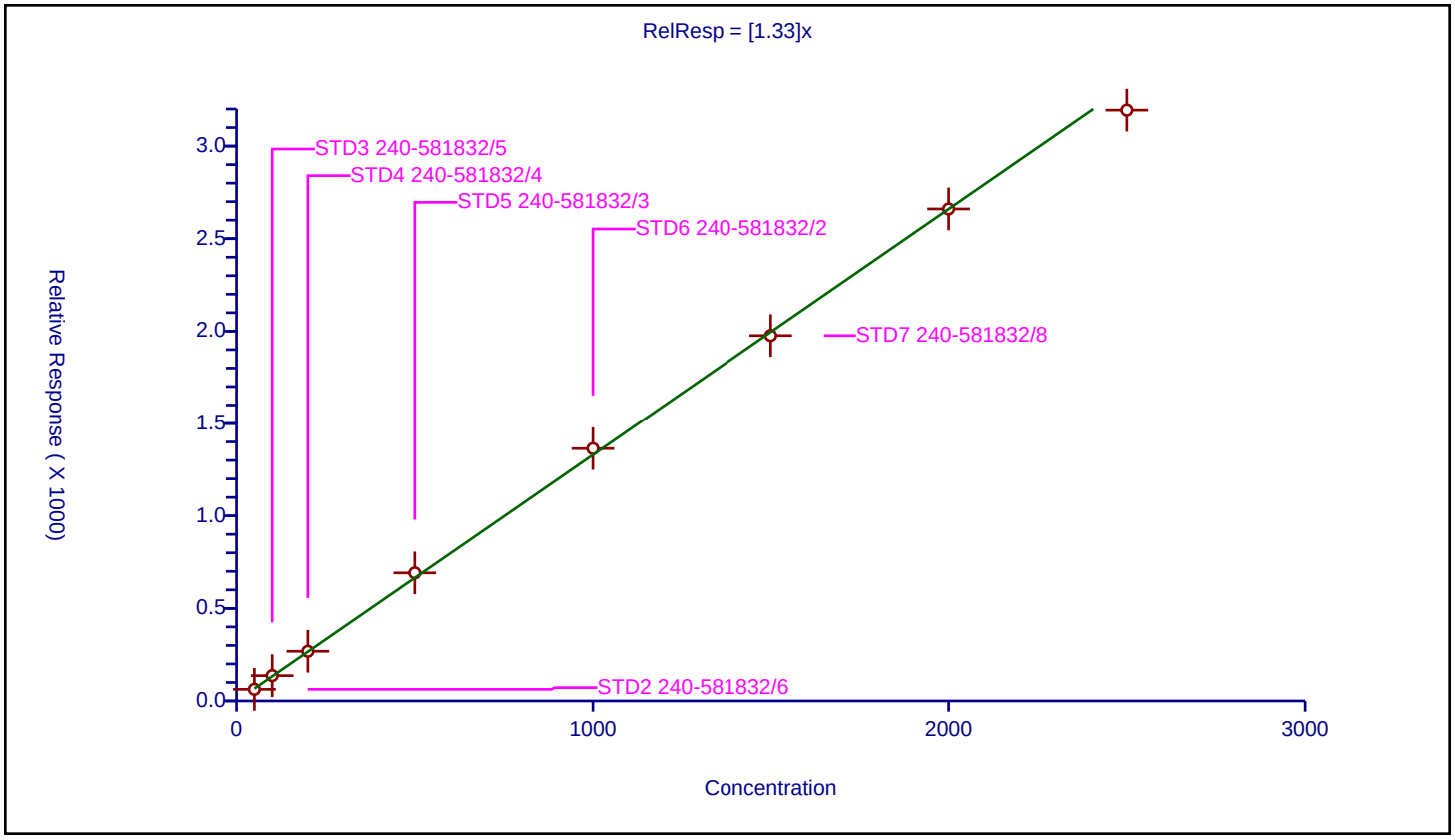
Curve Coefficients

Intercept:	0
Slope:	1.33

Error Coefficients

Standard Error:	2610000
Relative Standard Error:	3.3
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581832/6	50.0	62.85417	400.0	503572.0	1.257083	Y
2	STD3 240-581832/5	100.0	136.805642	400.0	515008.0	1.368056	Y
3	STD4 240-581832/4	200.0	268.426608	400.0	542897.0	1.342133	Y
4	STD5 240-581832/3	500.0	691.78582	400.0	528452.0	1.383572	Y
5	STD6 240-581832/2	1000.0	1364.090284	400.0	537058.0	1.36409	Y
6	STD7 240-581832/8	1500.0	1976.138403	400.0	528833.0	1.317426	Y
7	STD8 240-581832/9	2000.0	2660.670932	400.0	588018.0	1.330335	Y
8	STD9 240-581832/10	2500.0	3193.948097	400.0	578661.0	1.277579	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

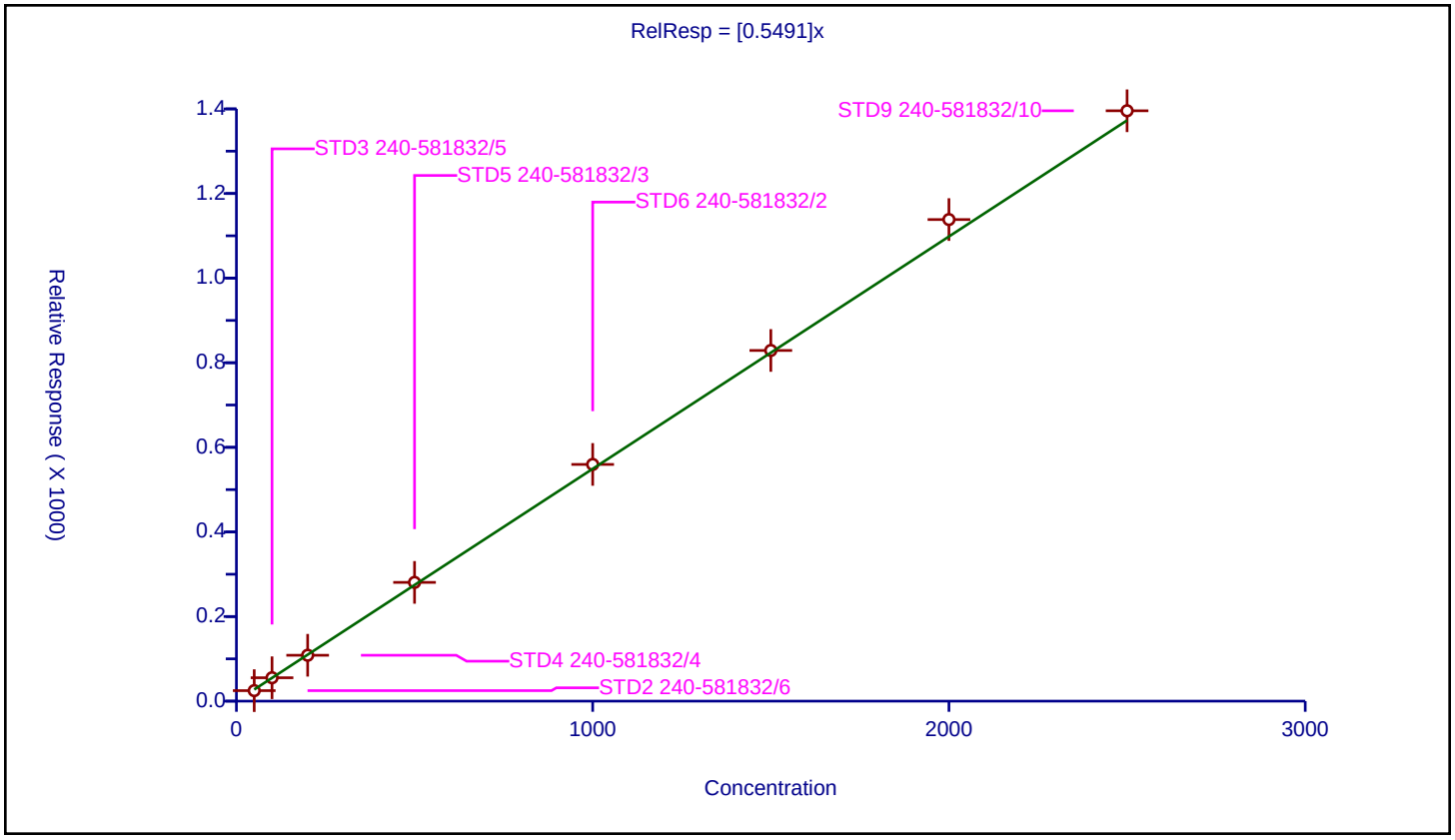
Curve Coefficients

Intercept:	0
Slope:	0.5491

Error Coefficients

Standard Error:	1120000
Relative Standard Error:	4.1
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581832/6	50.0	24.822667	400.0	503572.0	0.496453	Y
2	STD3 240-581832/5	100.0	55.330403	400.0	515008.0	0.553304	Y
3	STD4 240-581832/4	200.0	108.468457	400.0	542897.0	0.542342	Y
4	STD5 240-581832/3	500.0	280.696828	400.0	528452.0	0.561394	Y
5	STD6 240-581832/2	1000.0	559.549248	400.0	537058.0	0.559549	Y
6	STD7 240-581832/8	1500.0	828.941462	400.0	528833.0	0.552628	Y
7	STD8 240-581832/9	2000.0	1138.418212	400.0	588018.0	0.569209	Y
8	STD9 240-581832/10	2500.0	1395.52726	400.0	578661.0	0.558211	Y



Calibration / 4-Nitroaniline

Curve Type:	Quadratic
Weighting:	None
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

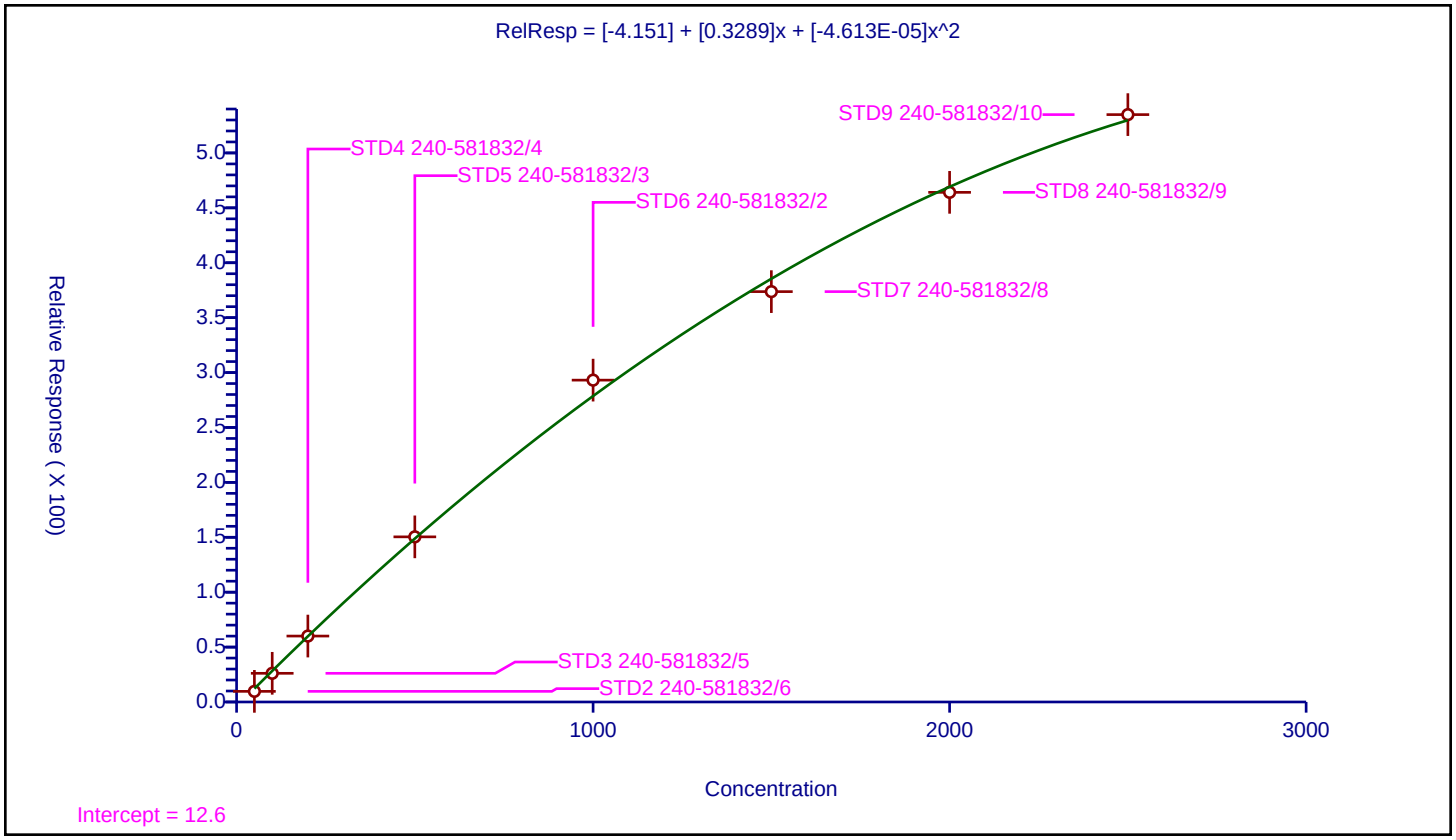
Curve Coefficients

Intercept:	-4.151
Slope:	0.3289
Second Order:	-4.613E-05

Error Coefficients

Standard Error:	549000
Relative Standard Error:	8.3
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581832/6	50.0	9.681237	400.0	503572.0	0.193625	Y
2	STD3 240-581832/5	100.0	26.126973	400.0	515008.0	0.26127	Y
3	STD4 240-581832/4	200.0	60.034224	400.0	542897.0	0.300171	Y
4	STD5 240-581832/3	500.0	150.387925	400.0	528452.0	0.300776	Y
5	STD6 240-581832/2	1000.0	293.104283	400.0	537058.0	0.293104	Y
6	STD7 240-581832/8	1500.0	373.702851	400.0	528833.0	0.249135	Y
7	STD8 240-581832/9	2000.0	464.108922	400.0	588018.0	0.232054	Y
8	STD9 240-581832/10	2500.0	534.892104	400.0	578661.0	0.213957	Y



Calibration / Fluorene

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

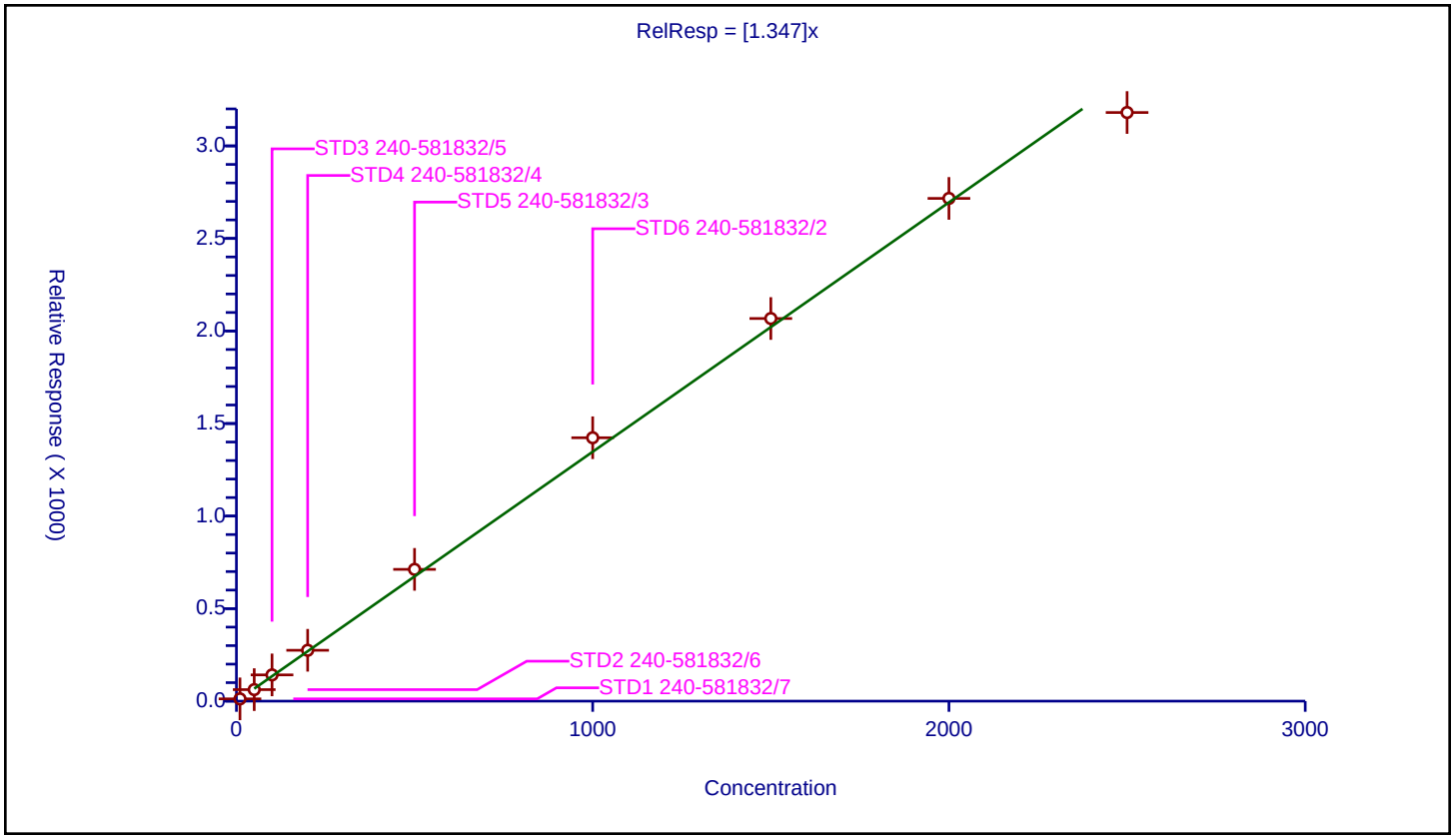
Curve Coefficients

Intercept:	0
Slope:	1.347

Error Coefficients

Standard Error:	2480000
Relative Standard Error:	5.7
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 240-581832/7	10.0	12.323169	400.0	516523.0	1.232317	Y
2	STD2 240-581832/6	50.0	62.290993	400.0	503572.0	1.24582	Y
3	STD3 240-581832/5	100.0	141.861874	400.0	515008.0	1.418619	Y
4	STD4 240-581832/4	200.0	274.847715	400.0	542897.0	1.374239	Y
5	STD5 240-581832/3	500.0	712.048019	400.0	528452.0	1.424096	Y
6	STD6 240-581832/2	1000.0	1423.119291	400.0	537058.0	1.423119	Y
7	STD7 240-581832/8	1500.0	2067.380061	400.0	528833.0	1.378253	Y
8	STD8 240-581832/9	2000.0	2716.315487	400.0	588018.0	1.358158	Y
9	STD9 240-581832/10	2500.0	3180.474924	400.0	578661.0	1.27219	Y



8/12/2023
10:47 AM

Calibration / 4,6-Dinitro-2-methylphenol

Curve Type:	Quadratic
Weighting:	None
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

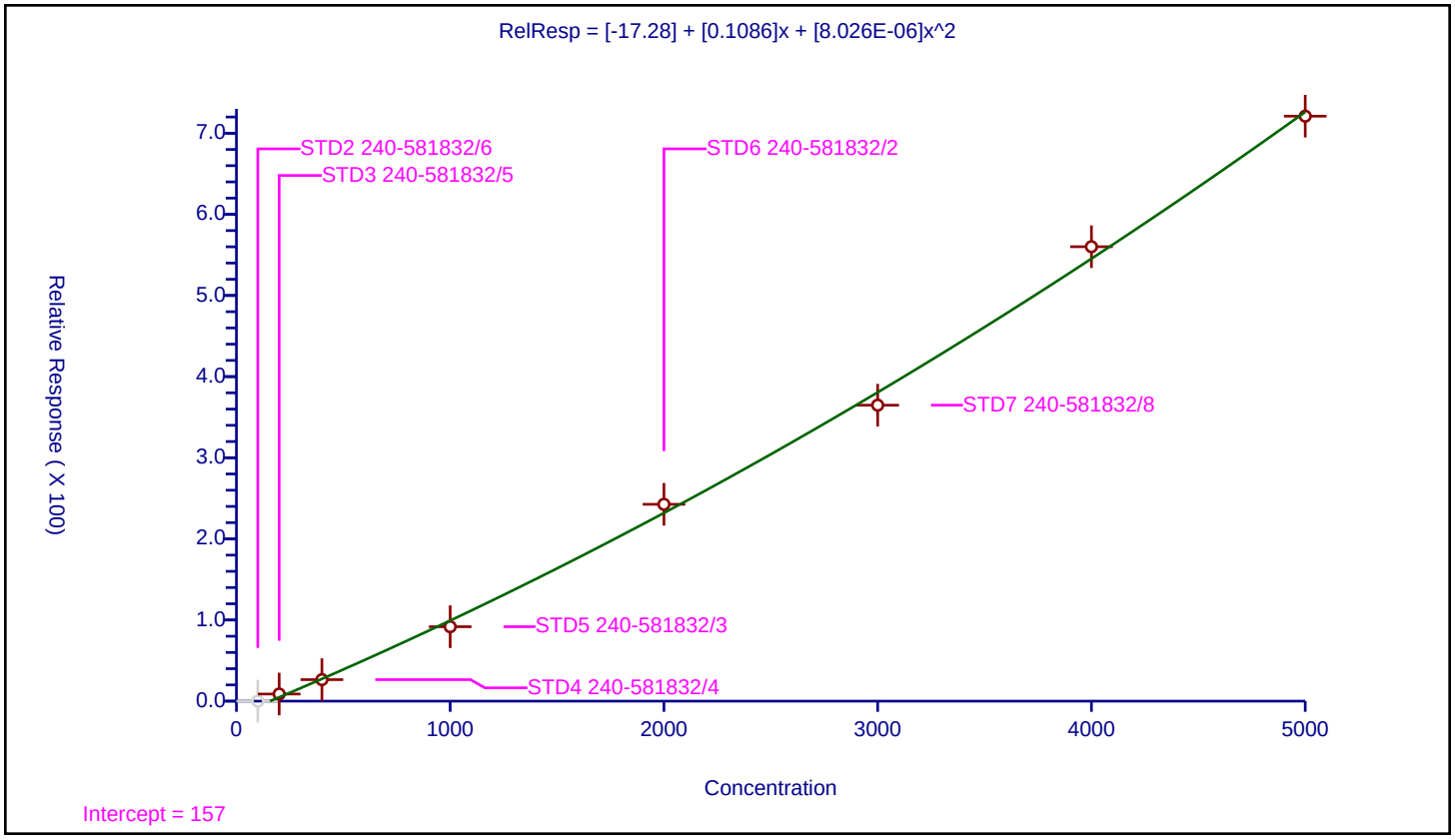
Curve Coefficients

Intercept:	-17.28
Slope:	0.1086
Second Order:	8.026E-06

Error Coefficients

Standard Error:	1080000
Relative Standard Error:	10.0
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581832/6	100.0	0.0	400.0	764261.0	0.0	N
2	STD3 240-581832/5	200.0	8.790352	400.0	810252.0	0.043952	Y
3	STD4 240-581832/4	400.0	26.505107	400.0	848395.0	0.066263	Y
4	STD5 240-581832/3	1000.0	91.735841	400.0	855683.0	0.091736	Y
5	STD6 240-581832/2	2000.0	242.634522	400.0	790003.0	0.121317	Y
6	STD7 240-581832/8	3000.0	364.799231	400.0	815789.0	0.1216	Y
7	STD8 240-581832/9	4000.0	560.120471	400.0	886520.0	0.14003	Y
8	STD9 240-581832/10	5000.0	721.032014	400.0	848283.0	0.144206	Y



8/12/2023
10:47 AM

Calibration / Diphenylamine

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

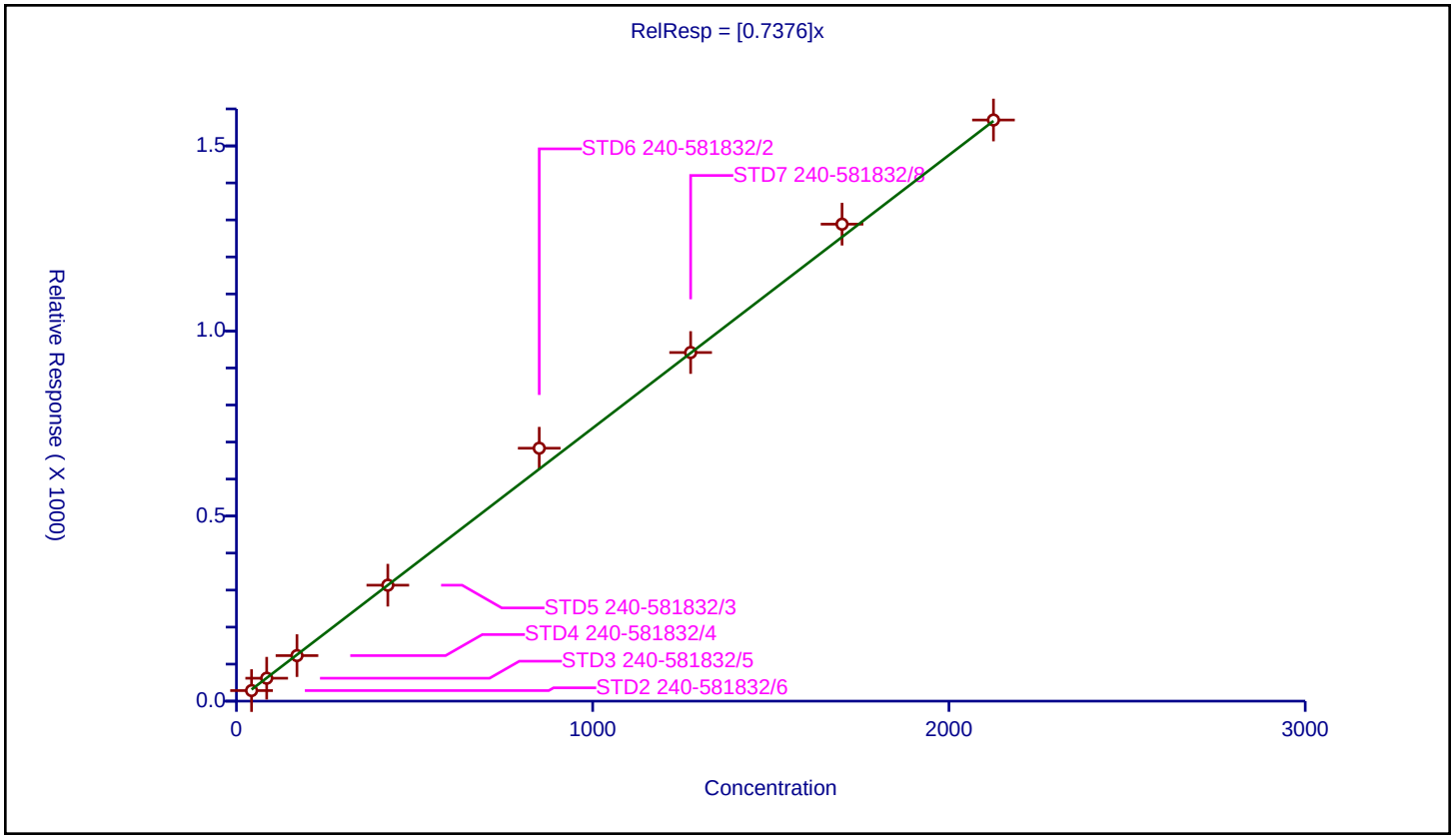
Curve Coefficients

Intercept:	0
Slope:	0.7376

Error Coefficients

Standard Error:	1900000
Relative Standard Error:	5.0
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581832/6	42.5	28.549409	400.0	764261.0	0.671751	Y
2	STD3 240-581832/5	85.0	61.944679	400.0	810252.0	0.728761	Y
3	STD4 240-581832/4	170.0	123.0309	400.0	848395.0	0.723711	Y
4	STD5 240-581832/3	425.0	313.28097	400.0	855683.0	0.737132	Y
5	STD6 240-581832/2	850.0	683.338165	400.0	790003.0	0.803927	Y
6	STD7 240-581832/8	1275.0	941.834224	400.0	815789.0	0.738694	Y
7	STD8 240-581832/9	1700.0	1288.548933	400.0	886520.0	0.75797	Y
8	STD9 240-581832/10	2125.0	1570.00435	400.0	848283.0	0.738826	Y



Calibration / N-Nitrosodiphenylamine

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

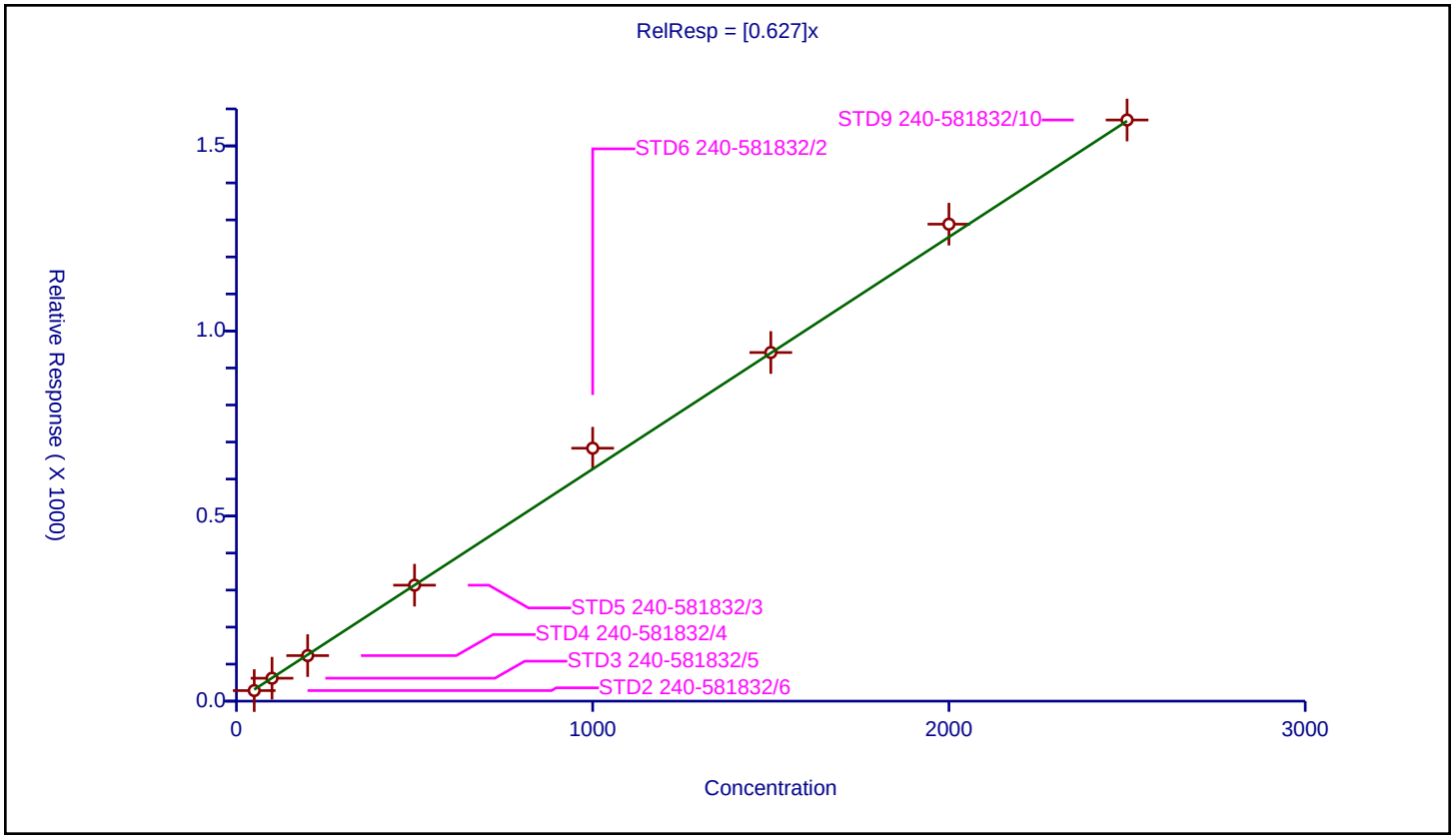
Curve Coefficients

Intercept:	0
Slope:	0.627

Error Coefficients

Standard Error:	1900000
Relative Standard Error:	5.0
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581832/6	50.0	28.549409	400.0	764261.0	0.570988	Y
2	STD3 240-581832/5	100.0	61.944679	400.0	810252.0	0.619447	Y
3	STD4 240-581832/4	200.0	123.0309	400.0	848395.0	0.615154	Y
4	STD5 240-581832/3	500.0	313.28097	400.0	855683.0	0.626562	Y
5	STD6 240-581832/2	1000.0	683.338165	400.0	790003.0	0.683338	Y
6	STD7 240-581832/8	1500.0	941.834224	400.0	815789.0	0.627889	Y
7	STD8 240-581832/9	2000.0	1288.548933	400.0	886520.0	0.644274	Y
8	STD9 240-581832/10	2500.0	1570.00435	400.0	848283.0	0.628002	Y



8/12/2023
10:47 AM

Calibration / Azobenzene

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

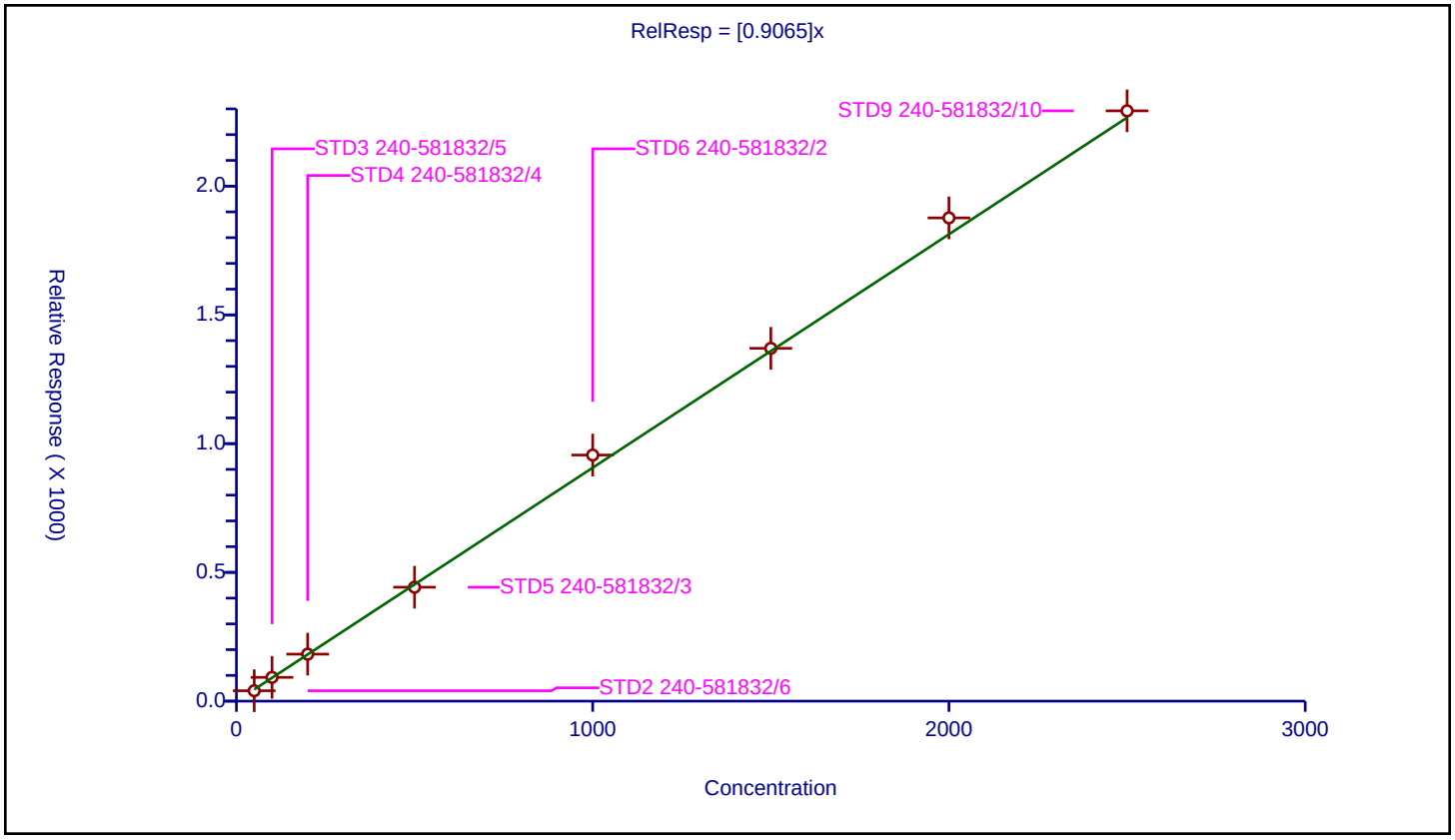
Curve Coefficients

Intercept:	0
Slope:	0.9065

Error Coefficients

Standard Error:	2760000
Relative Standard Error:	5.0
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581832/6	50.0	40.356894	400.0	764261.0	0.807138	Y
2	STD3 240-581832/5	100.0	92.265122	400.0	810252.0	0.922651	Y
3	STD4 240-581832/4	200.0	182.507912	400.0	848395.0	0.91254	Y
4	STD5 240-581832/3	500.0	442.467129	400.0	855683.0	0.884934	Y
5	STD6 240-581832/2	1000.0	955.64346	400.0	790003.0	0.955643	Y
6	STD7 240-581832/8	1500.0	1370.161647	400.0	815789.0	0.913441	Y
7	STD8 240-581832/9	2000.0	1876.647566	400.0	886520.0	0.938324	Y
8	STD9 240-581832/10	2500.0	2292.421279	400.0	848283.0	0.916969	Y



8/12/2023
10:47 AM

Calibration / 2,4,6-Tribromophenol

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

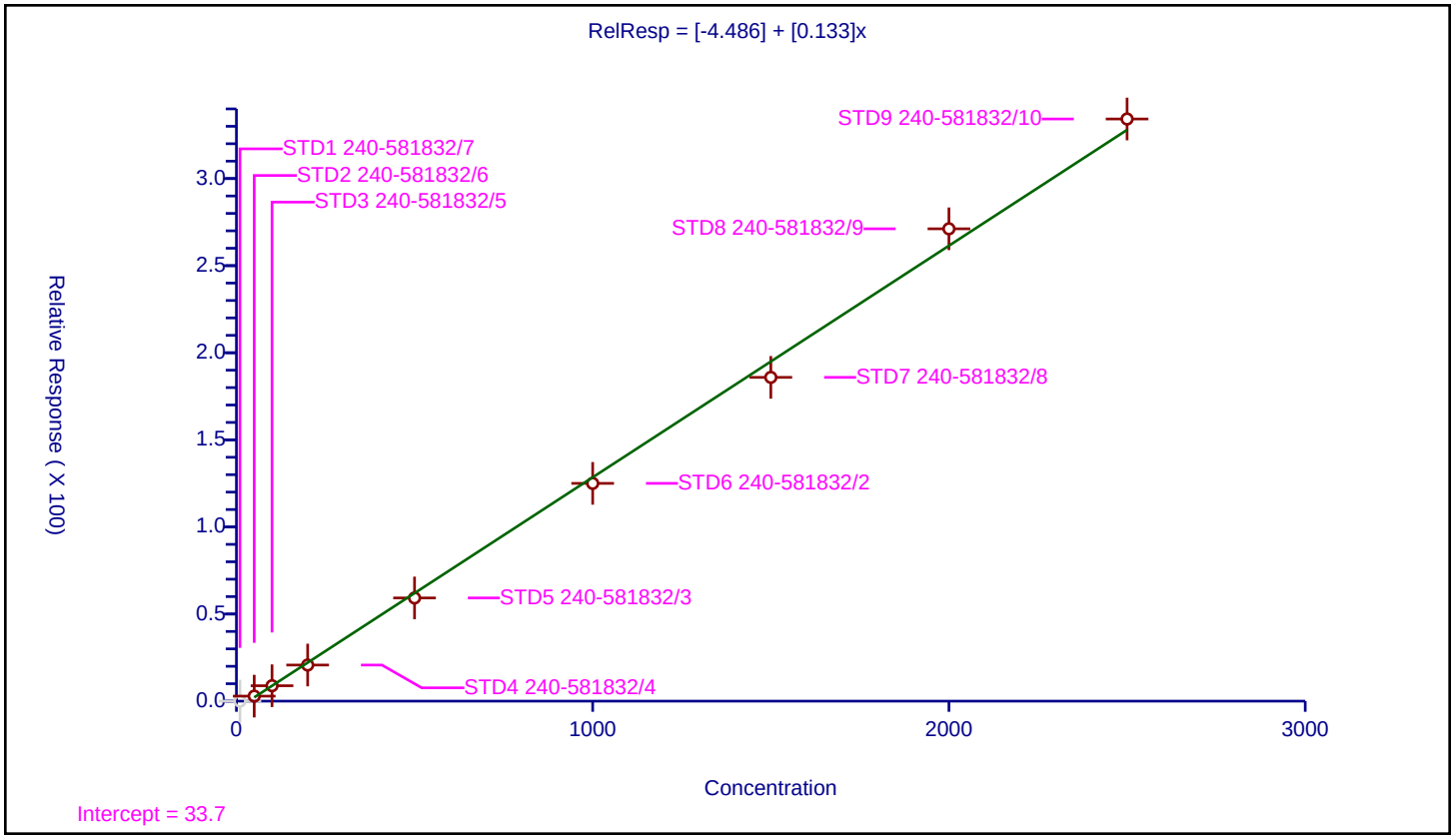
Curve Coefficients

Intercept:	-4.486
Slope:	0.133

Error Coefficients

Standard Error:	285000
Relative Standard Error:	5.8
Correlation Coefficient:	0.992
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 240-581832/7	10.0	0.0	400.0	516523.0	0.0	N
2	STD2 240-581832/6	50.0	2.878635	400.0	503572.0	0.057573	Y
3	STD3 240-581832/5	100.0	8.844134	400.0	515008.0	0.088441	Y
4	STD4 240-581832/4	200.0	20.721426	400.0	542897.0	0.103607	Y
5	STD5 240-581832/3	500.0	59.234897	400.0	528452.0	0.11847	Y
6	STD6 240-581832/2	1000.0	125.027092	400.0	537058.0	0.125027	Y
7	STD7 240-581832/8	1500.0	185.872667	400.0	528833.0	0.123915	Y
8	STD8 240-581832/9	2000.0	271.161087	400.0	588018.0	0.135581	Y
9	STD9 240-581832/10	2500.0	334.203273	400.0	578661.0	0.133681	Y



8/12/2023
10:47 AM

Calibration / 4-Bromophenyl phenyl ether

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

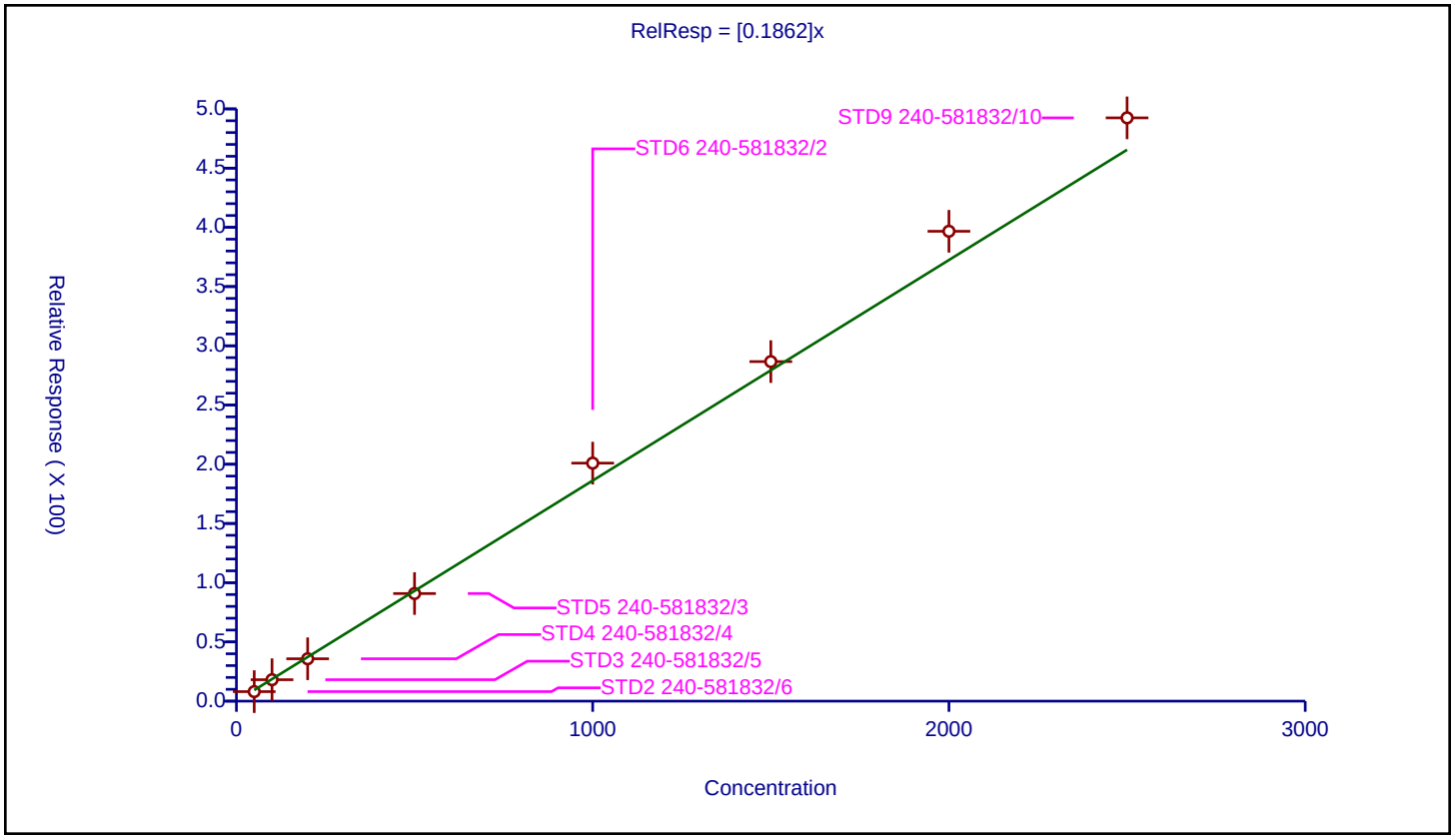
Curve Coefficients

Intercept:	0
Slope:	0.1862

Error Coefficients

Standard Error:	586000
Relative Standard Error:	7.2
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581832/6	50.0	8.035998	400.0	764261.0	0.16072	Y
2	STD3 240-581832/5	100.0	18.099061	400.0	810252.0	0.180991	Y
3	STD4 240-581832/4	200.0	35.773431	400.0	848395.0	0.178867	Y
4	STD5 240-581832/3	500.0	90.821484	400.0	855683.0	0.181643	Y
5	STD6 240-581832/2	1000.0	200.930883	400.0	790003.0	0.200931	Y
6	STD7 240-581832/8	1500.0	286.665302	400.0	815789.0	0.19111	Y
7	STD8 240-581832/9	2000.0	396.677796	400.0	886520.0	0.198339	Y
8	STD9 240-581832/10	2500.0	492.430946	400.0	848283.0	0.196972	Y



8/12/2023
10:47 AM

Calibration / Atrazine

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

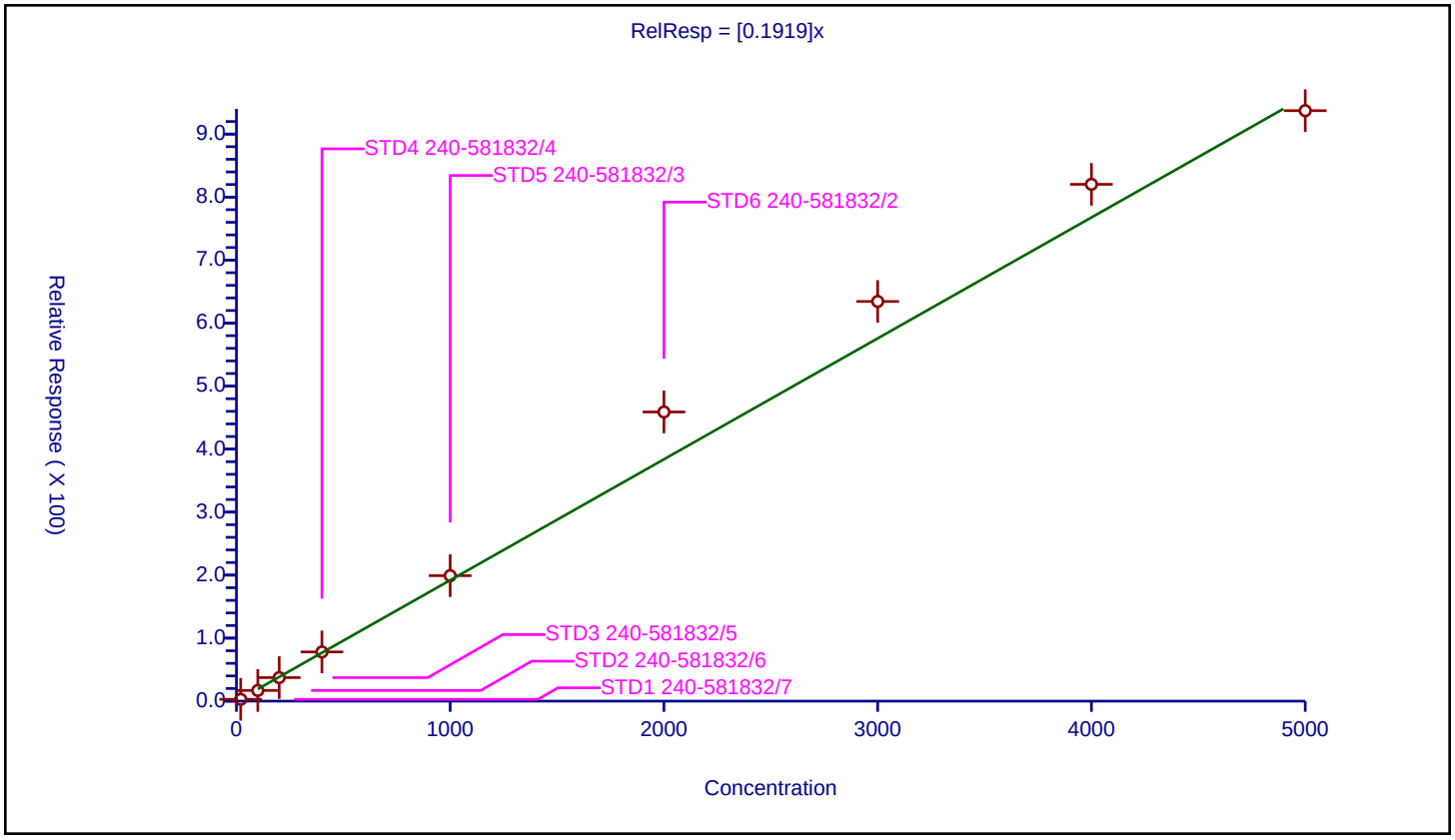
Curve Coefficients

Intercept:	0
Slope:	0.1919

Error Coefficients

Standard Error:	1120000
Relative Standard Error:	12.9
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 240-581832/7	20.0	2.867309	400.0	792520.0	0.143365	Y
2	STD2 240-581832/6	100.0	16.944997	400.0	764261.0	0.16945	Y
3	STD3 240-581832/5	200.0	37.34295	400.0	810252.0	0.186715	Y
4	STD4 240-581832/4	400.0	78.078725	400.0	848395.0	0.195197	Y
5	STD5 240-581832/3	1000.0	199.135895	400.0	855683.0	0.199136	Y
6	STD6 240-581832/2	2000.0	458.969903	400.0	790003.0	0.229485	Y
7	STD7 240-581832/8	3000.0	634.350794	400.0	815789.0	0.21145	Y
8	STD8 240-581832/9	4000.0	820.303659	400.0	886520.0	0.205076	Y
9	STD9 240-581832/10	5000.0	937.17026	400.0	848283.0	0.187434	Y



Calibration / Hexachlorobenzene

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

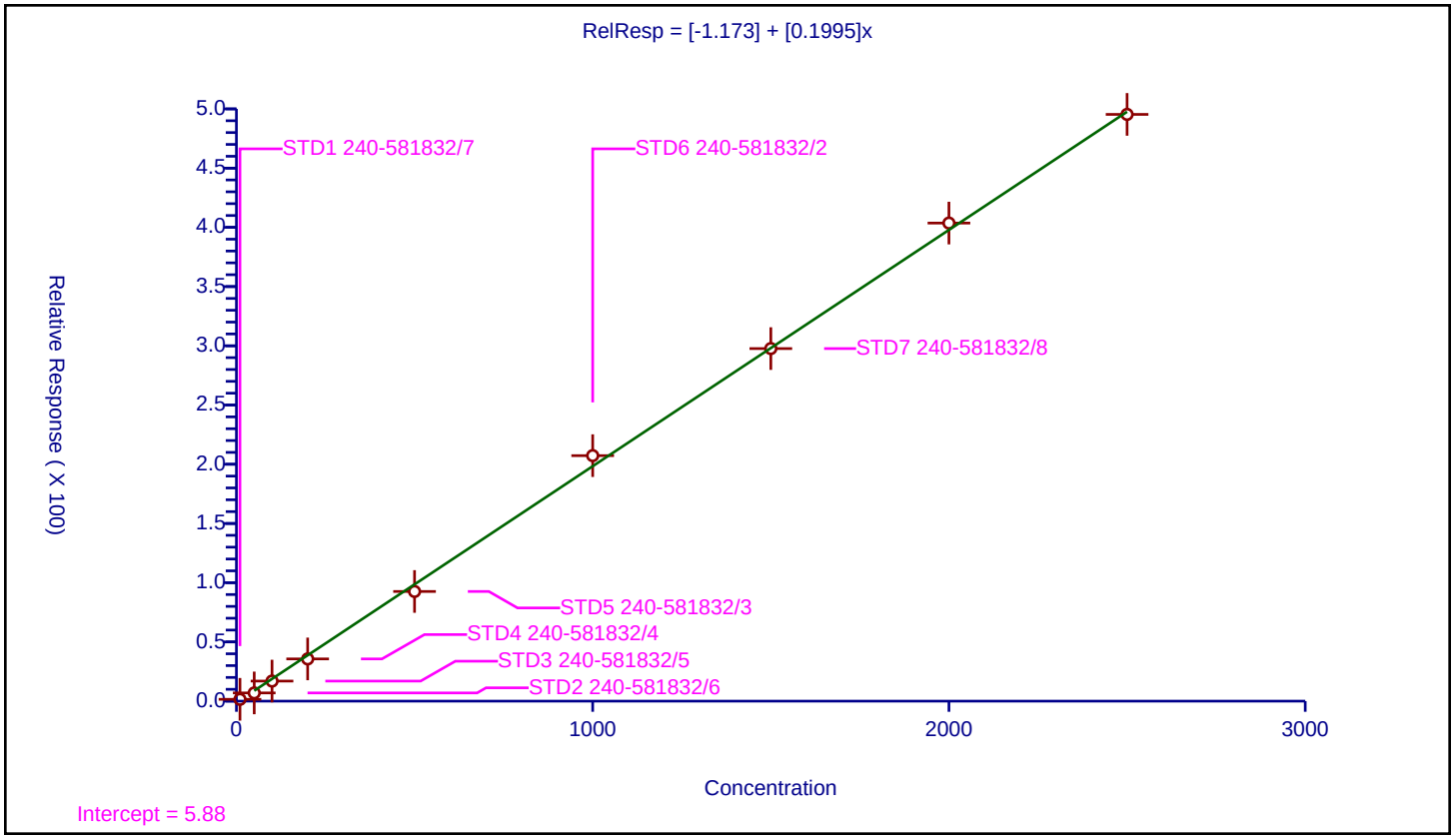
Curve Coefficients

Intercept:	-1.173
Slope:	0.1995

Error Coefficients

Standard Error:	596000
Relative Standard Error:	16.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 240-581832/7	10.0	1.543936	400.0	792520.0	0.154394	Y
2	STD2 240-581832/6	50.0	6.947365	400.0	764261.0	0.138947	Y
3	STD3 240-581832/5	100.0	16.947814	400.0	810252.0	0.169478	Y
4	STD4 240-581832/4	200.0	35.647546	400.0	848395.0	0.178238	Y
5	STD5 240-581832/3	500.0	92.580547	400.0	855683.0	0.185161	Y
6	STD6 240-581832/2	1000.0	207.250859	400.0	790003.0	0.207251	Y
7	STD7 240-581832/8	1500.0	297.656379	400.0	815789.0	0.198438	Y
8	STD8 240-581832/9	2000.0	403.602852	400.0	886520.0	0.201801	Y
9	STD9 240-581832/10	2500.0	495.336108	400.0	848283.0	0.198134	Y



Calibration / n-Octadecane

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

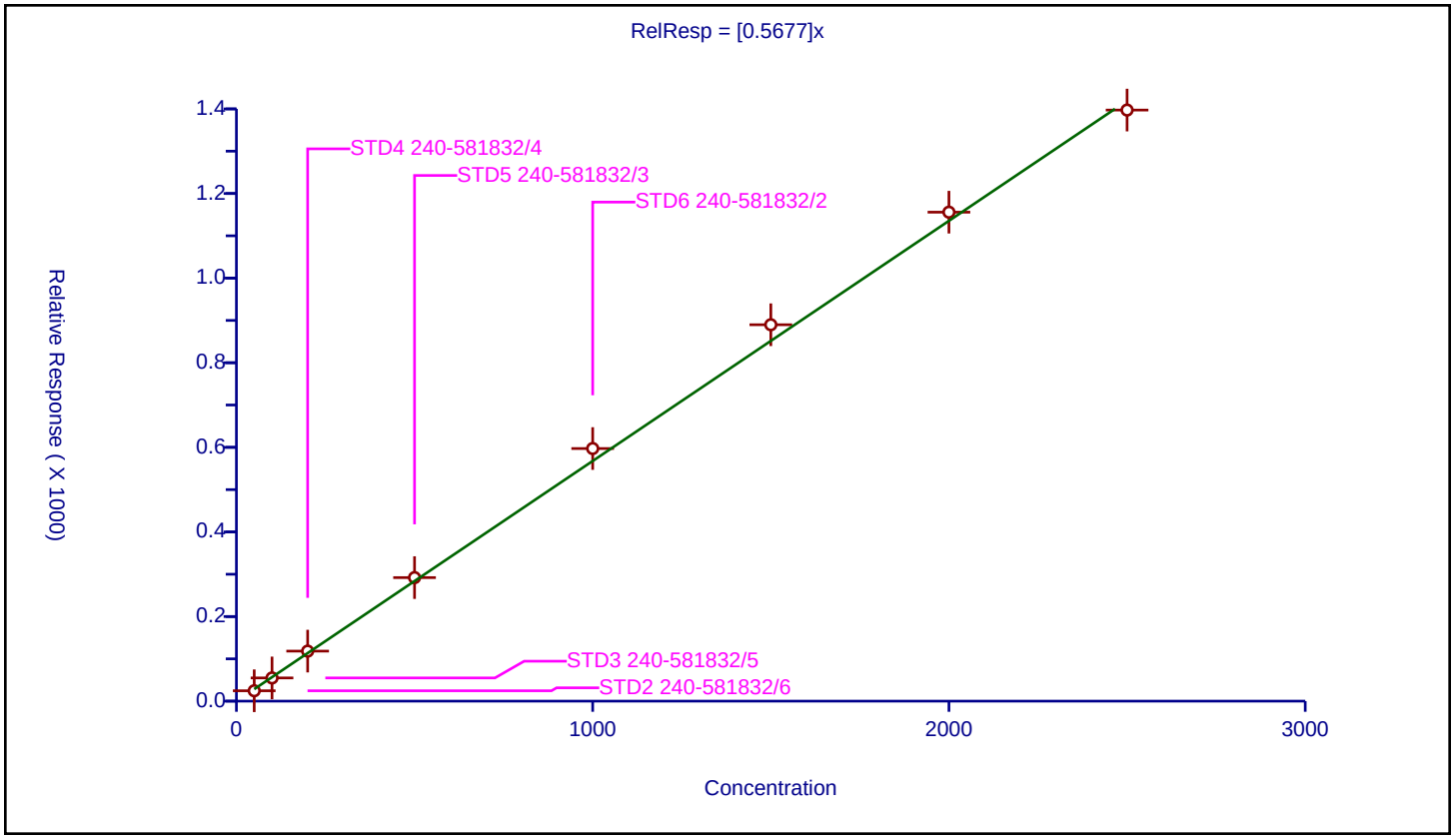
Curve Coefficients

Intercept:	0
Slope:	0.5677

Error Coefficients

Standard Error:	1710000
Relative Standard Error:	6.3
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581832/6	50.0	24.52827	400.0	764261.0	0.490565	Y
2	STD3 240-581832/5	100.0	54.853552	400.0	810252.0	0.548536	Y
3	STD4 240-581832/4	200.0	118.259537	400.0	848395.0	0.591298	Y
4	STD5 240-581832/3	500.0	292.038991	400.0	855683.0	0.584078	Y
5	STD6 240-581832/2	1000.0	597.139505	400.0	790003.0	0.59714	Y
6	STD7 240-581832/8	1500.0	889.746736	400.0	815789.0	0.593164	Y
7	STD8 240-581832/9	2000.0	1155.861571	400.0	886520.0	0.577931	Y
8	STD9 240-581832/10	2500.0	1397.23182	400.0	848283.0	0.558893	Y



Calibration / Pentachlorophenol

Curve Type:	Quadratic
Weighting:	None
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

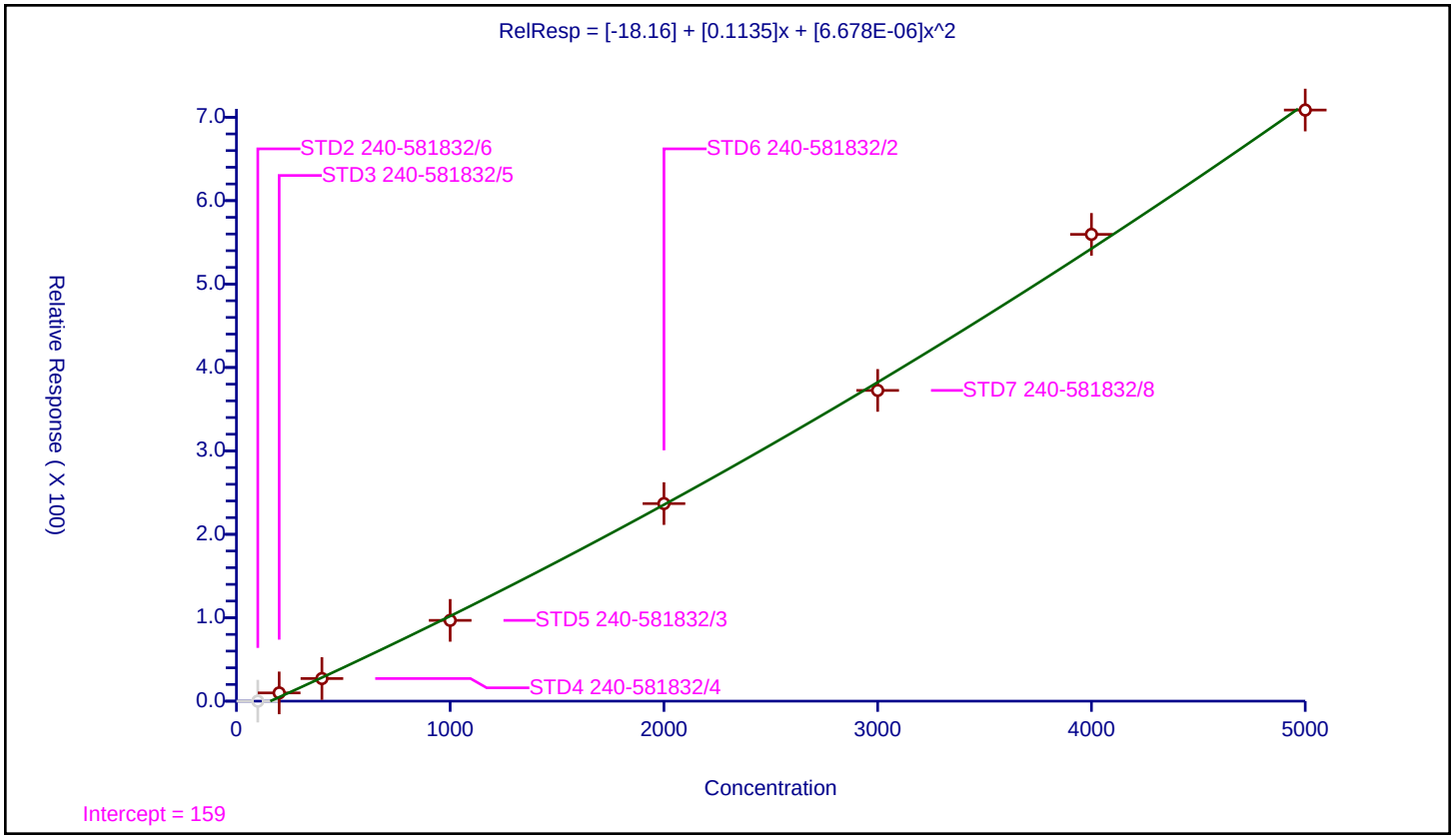
Curve Coefficients

Intercept:	-18.16
Slope:	0.1135
Second Order:	6.678E-06

Error Coefficients

Standard Error:	1080000
Relative Standard Error:	11.3
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581832/6	100.0	0.0	400.0	764261.0	0.0	N
2	STD3 240-581832/5	200.0	9.886801	400.0	810252.0	0.049434	Y
3	STD4 240-581832/4	400.0	27.081253	400.0	848395.0	0.067703	Y
4	STD5 240-581832/3	1000.0	96.820902	400.0	855683.0	0.096821	Y
5	STD6 240-581832/2	2000.0	236.839101	400.0	790003.0	0.11842	Y
6	STD7 240-581832/8	3000.0	372.505636	400.0	815789.0	0.124169	Y
7	STD8 240-581832/9	4000.0	559.574516	400.0	886520.0	0.139894	Y
8	STD9 240-581832/10	5000.0	708.627192	400.0	848283.0	0.141725	Y



8/12/2023
10:47 AM

Calibration / Phenanthrene

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

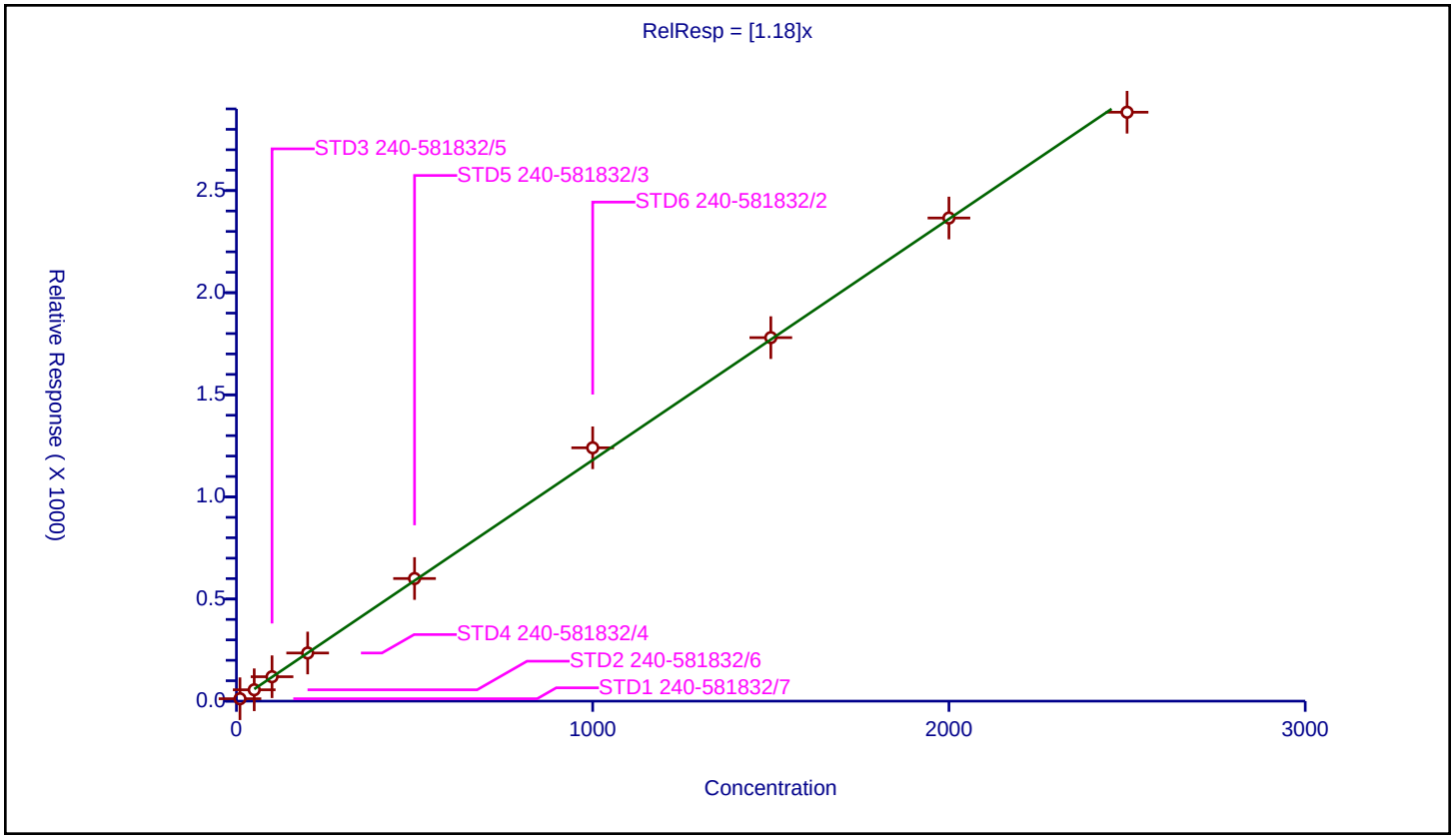
Curve Coefficients

Intercept:	0
Slope:	1.18

Error Coefficients

Standard Error:	3280000
Relative Standard Error:	2.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 240-581832/7	10.0	11.739767	400.0	792520.0	1.173977	Y
2	STD2 240-581832/6	50.0	55.648528	400.0	764261.0	1.112971	Y
3	STD3 240-581832/5	100.0	119.473941	400.0	810252.0	1.194739	Y
4	STD4 240-581832/4	200.0	235.701531	400.0	848395.0	1.178508	Y
5	STD5 240-581832/3	500.0	600.351298	400.0	855683.0	1.200703	Y
6	STD6 240-581832/2	1000.0	1240.556808	400.0	790003.0	1.240557	Y
7	STD7 240-581832/8	1500.0	1779.940646	400.0	815789.0	1.186627	Y
8	STD8 240-581832/9	2000.0	2365.697333	400.0	886520.0	1.182849	Y
9	STD9 240-581832/10	2500.0	2883.697068	400.0	848283.0	1.153479	Y



Calibration / Anthracene

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

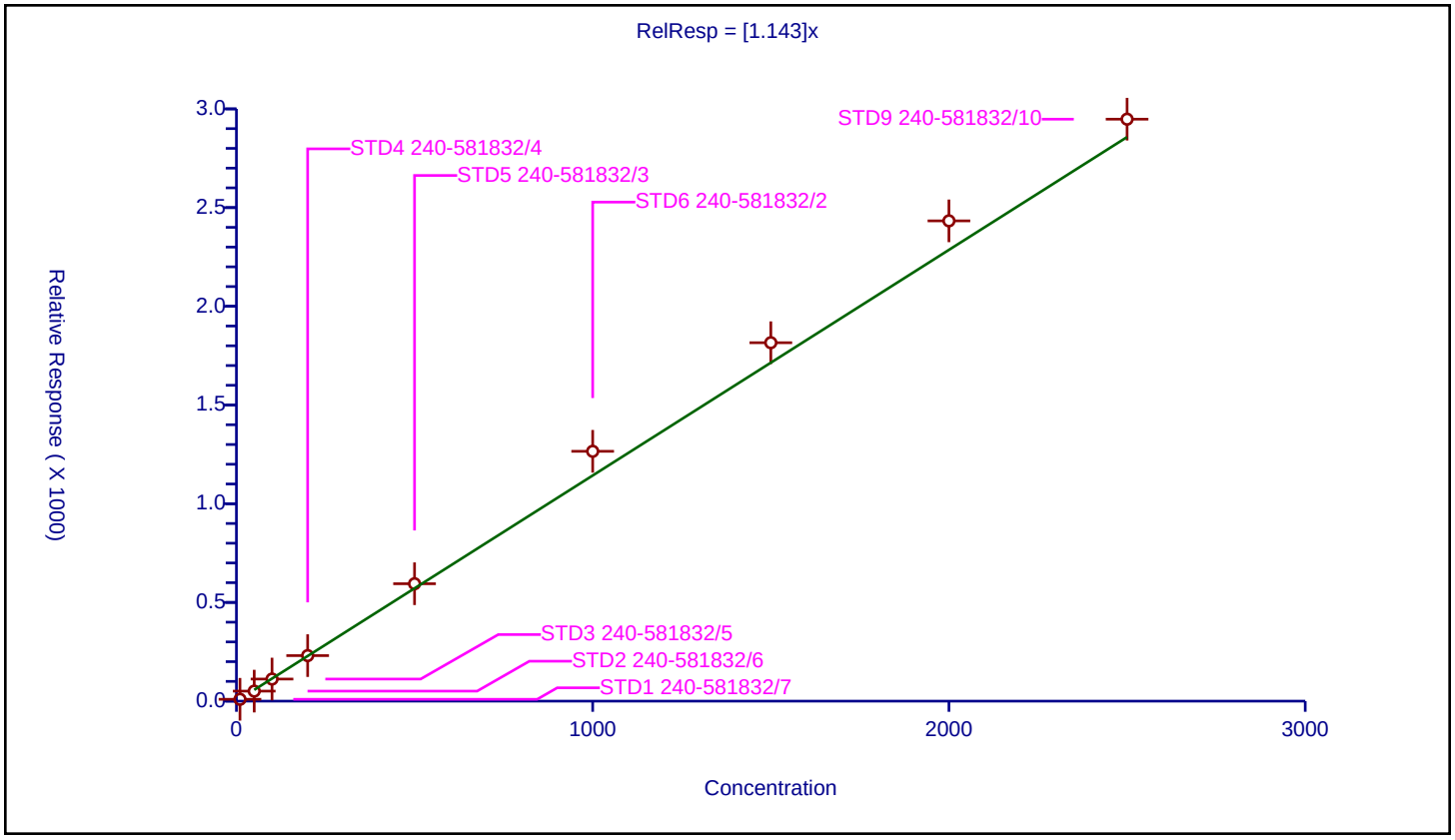
Curve Coefficients

Intercept:	0
Slope:	1.143

Error Coefficients

Standard Error:	3350000
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	STD1 240-581832/7	10.0	9.390804	400.0	792520.0	0.93908	Y
2	STD2 240-581832/6	50.0	50.727696	400.0	764261.0	1.014554	Y
3	STD3 240-581832/5	100.0	111.852115	400.0	810252.0	1.118521	Y
4	STD4 240-581832/4	200.0	230.632665	400.0	848395.0	1.153163	Y
5	STD5 240-581832/3	500.0	594.698738	400.0	855683.0	1.189397	Y
6	STD6 240-581832/2	1000.0	1265.556713	400.0	790003.0	1.265557	Y
7	STD7 240-581832/8	1500.0	1815.605261	400.0	815789.0	1.210404	Y
8	STD8 240-581832/9	2000.0	2432.869648	400.0	886520.0	1.216435	Y
9	STD9 240-581832/10	2500.0	2947.876122	400.0	848283.0	1.17915	Y



Calibration / Carbazole

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

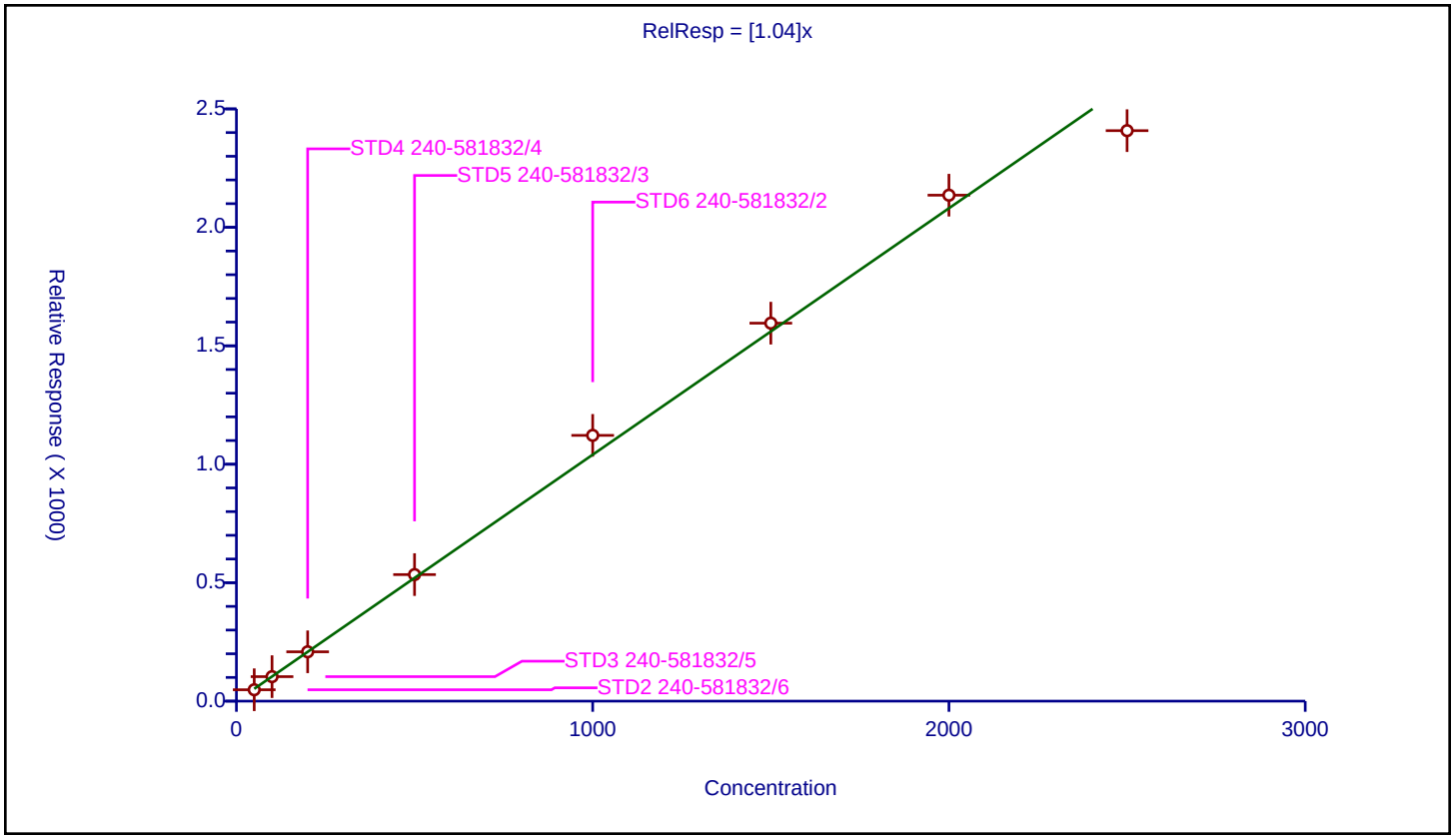
Curve Coefficients

Intercept:	0
Slope:	1.04

Error Coefficients

Standard Error:	3060000
Relative Standard Error:	5.3
Correlation Coefficient:	0.991
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581832/6	50.0	48.058975	400.0	764261.0	0.961179	Y
2	STD3 240-581832/5	100.0	103.429057	400.0	810252.0	1.034291	Y
3	STD4 240-581832/4	200.0	208.285527	400.0	848395.0	1.041428	Y
4	STD5 240-581832/3	500.0	534.248781	400.0	855683.0	1.068498	Y
5	STD6 240-581832/2	1000.0	1121.840297	400.0	790003.0	1.12184	Y
6	STD7 240-581832/8	1500.0	1595.539533	400.0	815789.0	1.063693	Y
7	STD8 240-581832/9	2000.0	2135.710418	400.0	886520.0	1.067855	Y
8	STD9 240-581832/10	2500.0	2408.13785	400.0	848283.0	0.963255	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

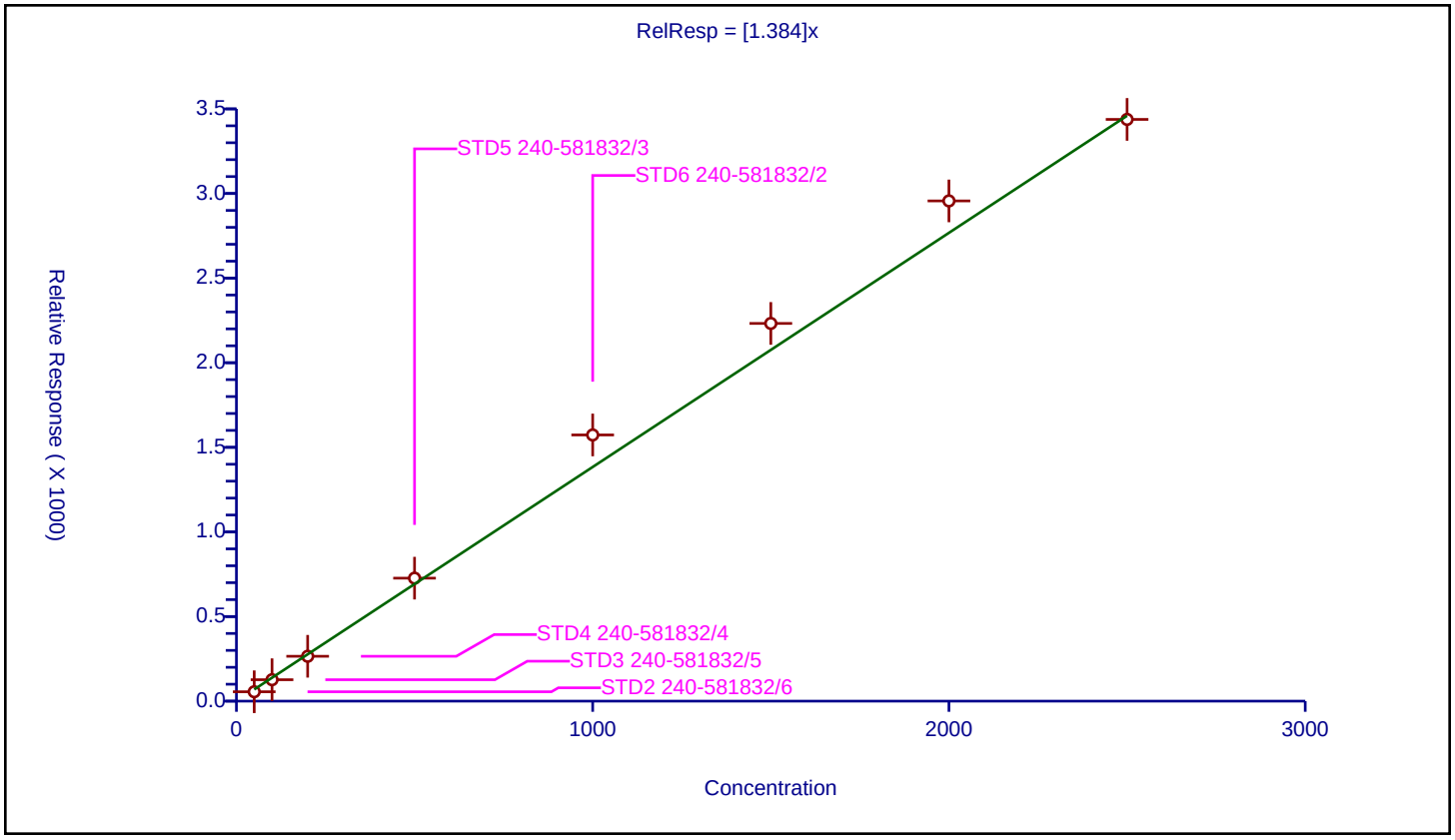
Curve Coefficients

Intercept:	0
Slope:	1.384

Error Coefficients

Standard Error:	4300000
Relative Standard Error:	10.7
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581832/6	50.0	55.504075	400.0	764261.0	1.110082	Y
2	STD3 240-581832/5	100.0	126.652449	400.0	810252.0	1.266524	Y
3	STD4 240-581832/4	200.0	265.074169	400.0	848395.0	1.325371	Y
4	STD5 240-581832/3	500.0	726.753249	400.0	855683.0	1.453506	Y
5	STD6 240-581832/2	1000.0	1573.059343	400.0	790003.0	1.573059	Y
6	STD7 240-581832/8	1500.0	2232.116393	400.0	815789.0	1.488078	Y
7	STD8 240-581832/9	2000.0	2956.222533	400.0	886520.0	1.478111	Y
8	STD9 240-581832/10	2500.0	3437.814974	400.0	848283.0	1.375126	Y



8/12/2023
10:47 AM

Calibration / Fluoranthene

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

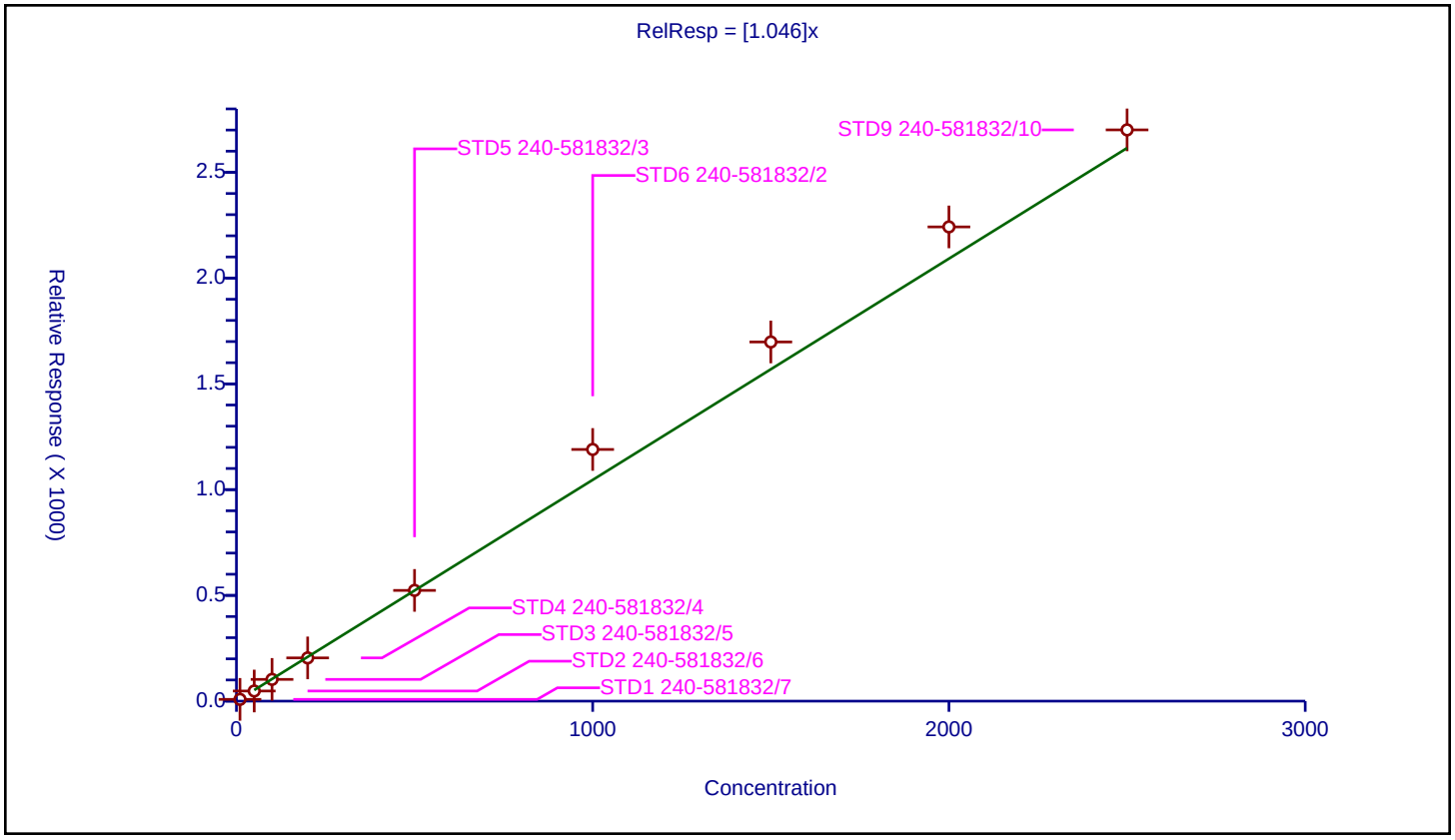
Curve Coefficients

Intercept:	0
Slope:	1.046

Error Coefficients

Standard Error:	3090000
Relative Standard Error:	10.0
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 240-581832/7	10.0	8.340484	400.0	792520.0	0.834048	Y
2	STD2 240-581832/6	50.0	47.951158	400.0	764261.0	0.959023	Y
3	STD3 240-581832/5	100.0	102.849978	400.0	810252.0	1.0285	Y
4	STD4 240-581832/4	200.0	204.408088	400.0	848395.0	1.02204	Y
5	STD5 240-581832/3	500.0	523.527054	400.0	855683.0	1.047054	Y
6	STD6 240-581832/2	1000.0	1189.829406	400.0	790003.0	1.189829	Y
7	STD7 240-581832/8	1500.0	1698.031231	400.0	815789.0	1.132021	Y
8	STD8 240-581832/9	2000.0	2242.072824	400.0	886520.0	1.121036	Y
9	STD9 240-581832/10	2500.0	2700.796314	400.0	848283.0	1.080319	Y



Calibration / Benzidine

Curve Type:	Quadratic
Weighting:	None
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

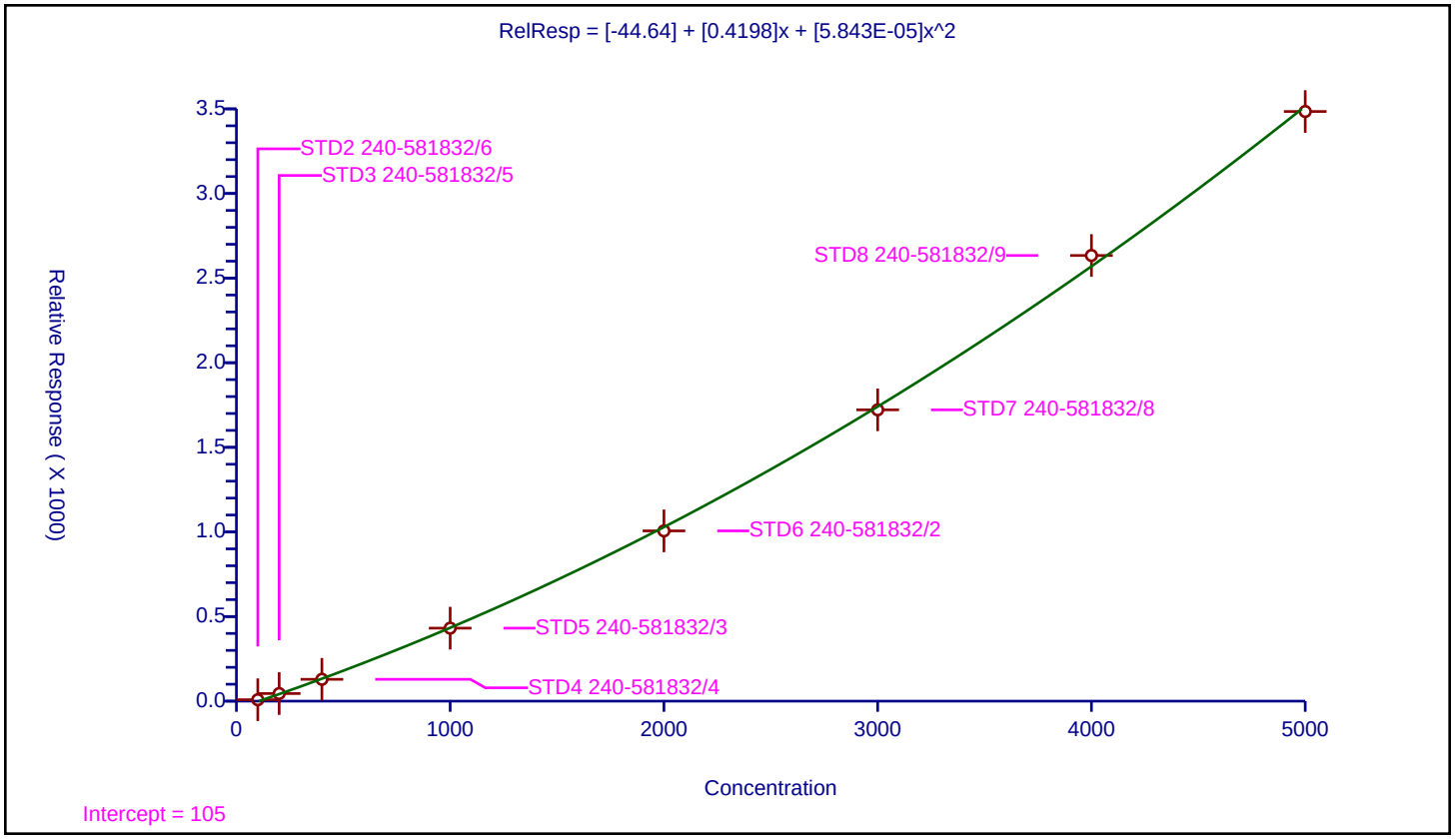
Curve Coefficients

Intercept:	-44.64
Slope:	0.4198
Second Order:	5.843E-05

Error Coefficients

Standard Error:	3290000
Relative Standard Error:	11.1
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581832/6	100.0	8.394986	400.0	514307.0	0.08395	Y
2	STD3 240-581832/5	200.0	44.99726	400.0	527401.0	0.224986	Y
3	STD4 240-581832/4	400.0	128.940383	400.0	556012.0	0.322351	Y
4	STD5 240-581832/3	1000.0	431.346469	400.0	577711.0	0.431346	Y
5	STD6 240-581832/2	2000.0	1006.102385	400.0	581412.0	0.503051	Y
6	STD7 240-581832/8	3000.0	1721.497852	400.0	587882.0	0.573833	Y
7	STD8 240-581832/9	4000.0	2633.704682	400.0	636778.0	0.658426	Y
8	STD9 240-581832/10	5000.0	3484.513861	400.0	605167.0	0.696903	Y



8/12/2023
10:47 AM

Calibration / Pyrene

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

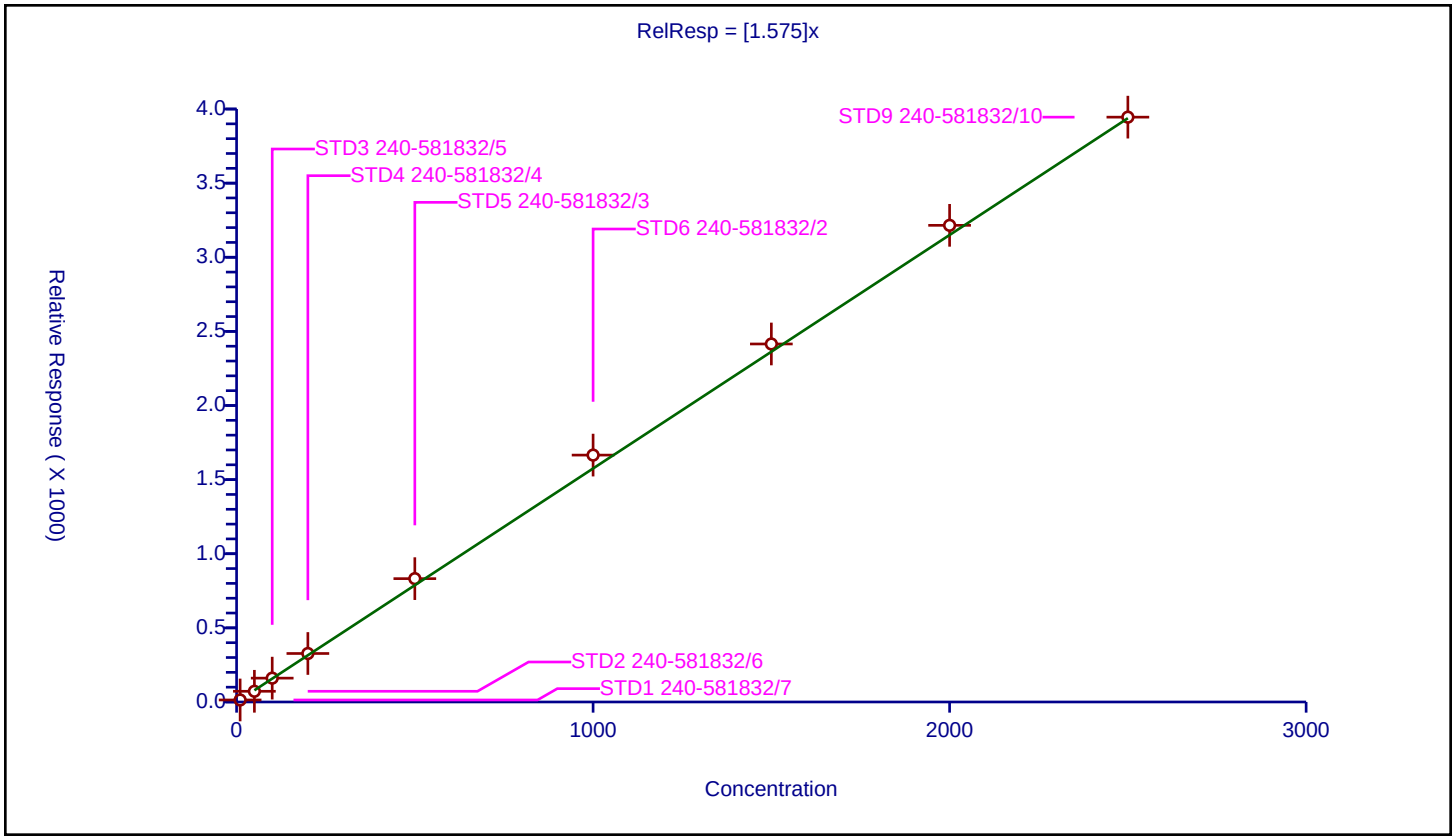
Curve Coefficients

Intercept:	0
Slope:	1.575

Error Coefficients

Standard Error:	3200000
Relative Standard Error:	6.6
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 240-581832/7	10.0	13.62456	400.0	519092.0	1.362456	Y
2	STD2 240-581832/6	50.0	72.191123	400.0	514307.0	1.443822	Y
3	STD3 240-581832/5	100.0	160.879483	400.0	527401.0	1.608795	Y
4	STD4 240-581832/4	200.0	327.17855	400.0	556012.0	1.635893	Y
5	STD5 240-581832/3	500.0	832.090786	400.0	577711.0	1.664182	Y
6	STD6 240-581832/2	1000.0	1665.439998	400.0	581412.0	1.66544	Y
7	STD7 240-581832/8	1500.0	2415.005052	400.0	587882.0	1.610003	Y
8	STD8 240-581832/9	2000.0	3215.374275	400.0	636778.0	1.607687	Y
9	STD9 240-581832/10	2500.0	3945.065742	400.0	605167.0	1.578026	Y



Calibration / Terphenyl-d14

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

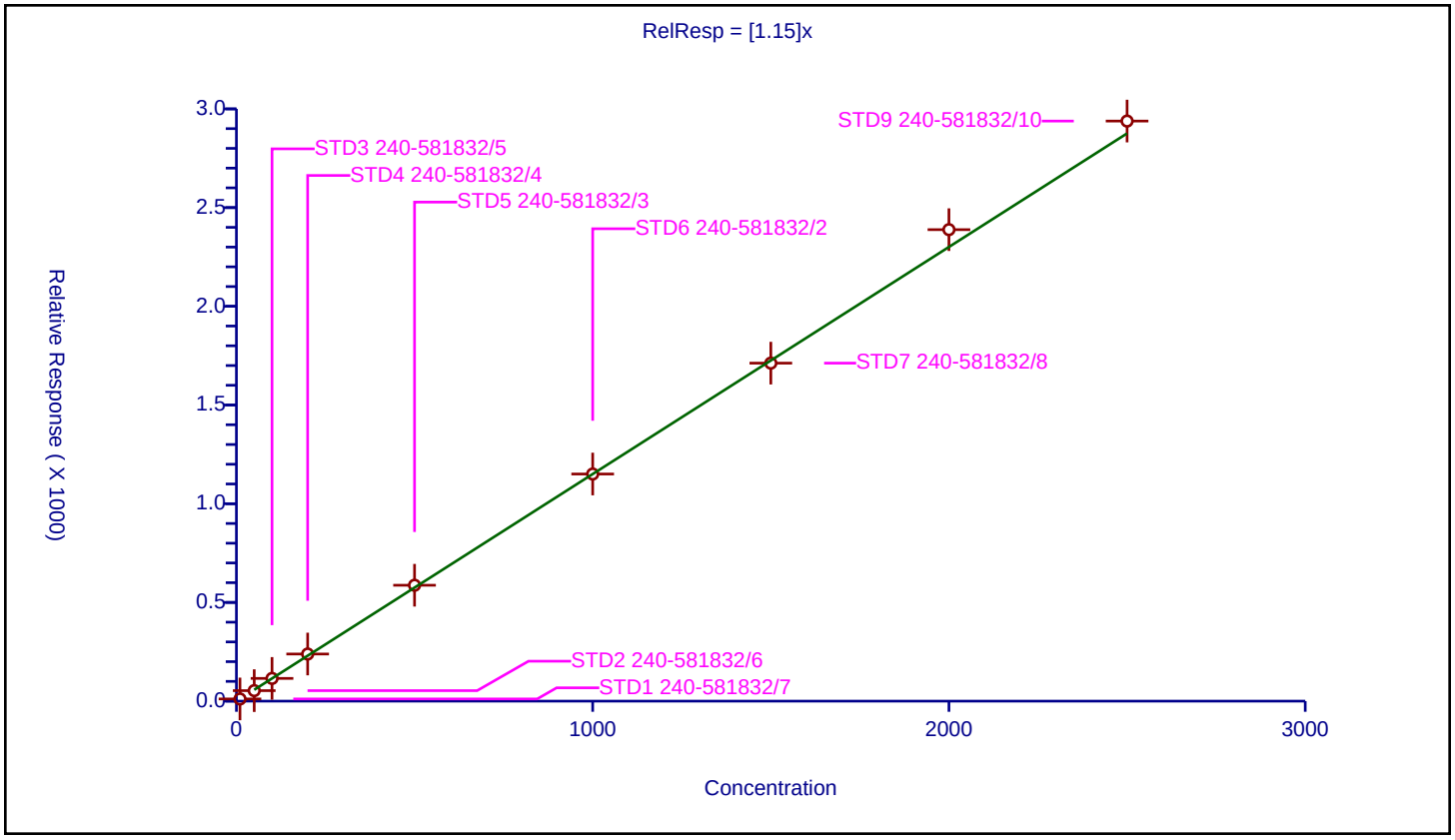
Curve Coefficients

Intercept:	0
Slope:	1.15

Error Coefficients

Standard Error:	2350000
Relative Standard Error:	3.7
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 240-581832/7	10.0	11.067788	400.0	519092.0	1.106779	Y
2	STD2 240-581832/6	50.0	53.281795	400.0	514307.0	1.065636	Y
3	STD3 240-581832/5	100.0	115.115443	400.0	527401.0	1.151154	Y
4	STD4 240-581832/4	200.0	238.686935	400.0	556012.0	1.193435	Y
5	STD5 240-581832/3	500.0	587.109472	400.0	577711.0	1.174219	Y
6	STD6 240-581832/2	1000.0	1150.446843	400.0	581412.0	1.150447	Y
7	STD7 240-581832/8	1500.0	1712.07147	400.0	587882.0	1.141381	Y
8	STD8 240-581832/9	2000.0	2388.357638	400.0	636778.0	1.194179	Y
9	STD9 240-581832/10	2500.0	2938.400144	400.0	605167.0	1.17536	Y



Calibration / Butyl benzyl phthalate

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

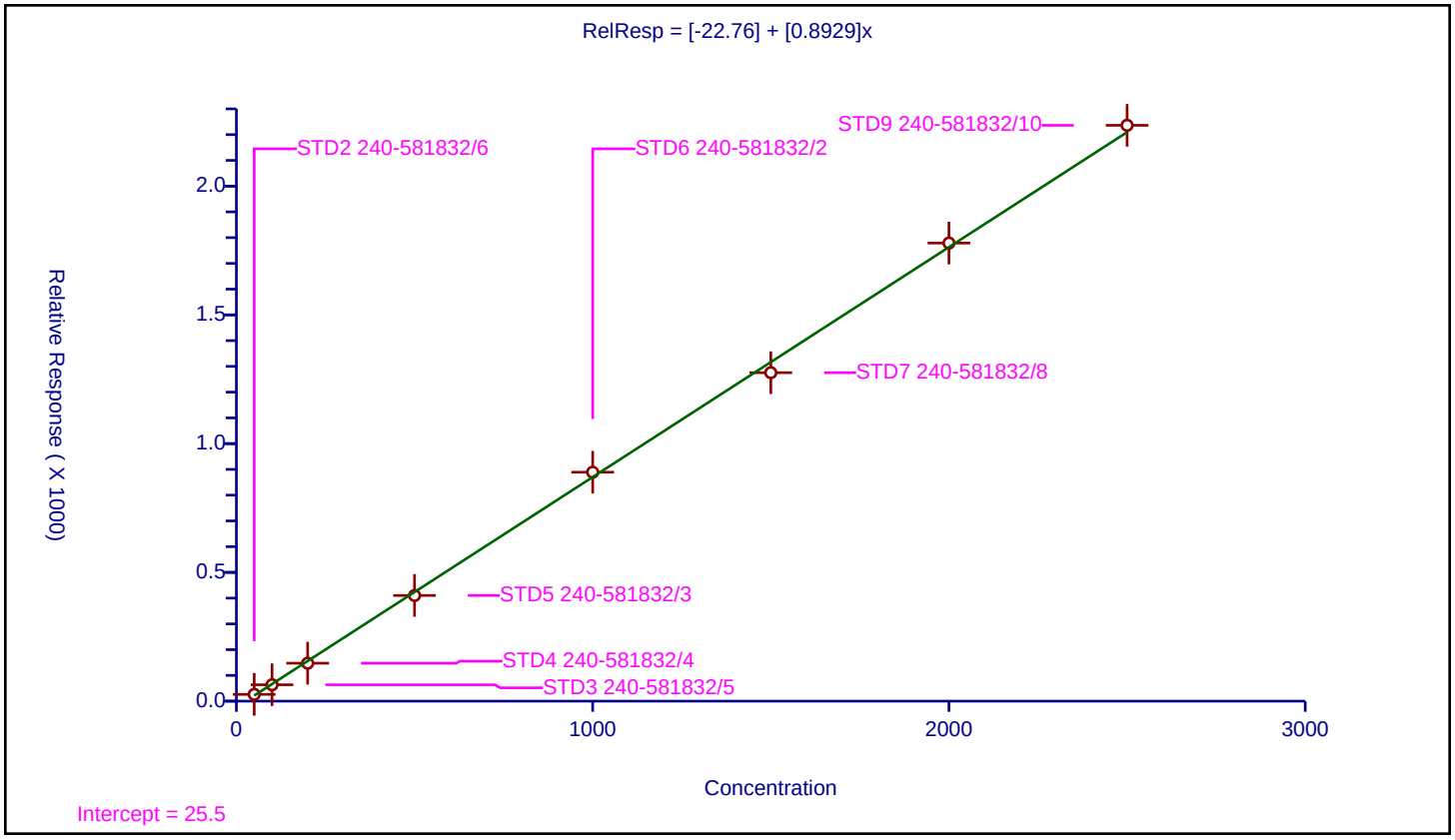
Curve Coefficients

Intercept:	-22.76
Slope:	0.8929

Error Coefficients

Standard Error:	2040000
Relative Standard Error:	5.1
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581832/6	50.0	26.289356	400.0	514307.0	0.525787	Y
2	STD3 240-581832/5	100.0	63.641897	400.0	527401.0	0.636419	Y
3	STD4 240-581832/4	200.0	147.305454	400.0	556012.0	0.736527	Y
4	STD5 240-581832/3	500.0	410.362275	400.0	577711.0	0.820725	Y
5	STD6 240-581832/2	1000.0	889.079689	400.0	581412.0	0.88908	Y
6	STD7 240-581832/8	1500.0	1275.619257	400.0	587882.0	0.850413	Y
7	STD8 240-581832/9	2000.0	1778.859822	400.0	636778.0	0.88943	Y
8	STD9 240-581832/10	2500.0	2236.163571	400.0	605167.0	0.894465	Y



8/12/2023
10:47 AM

Calibration / Bis(2-ethylhexyl) phthalate

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

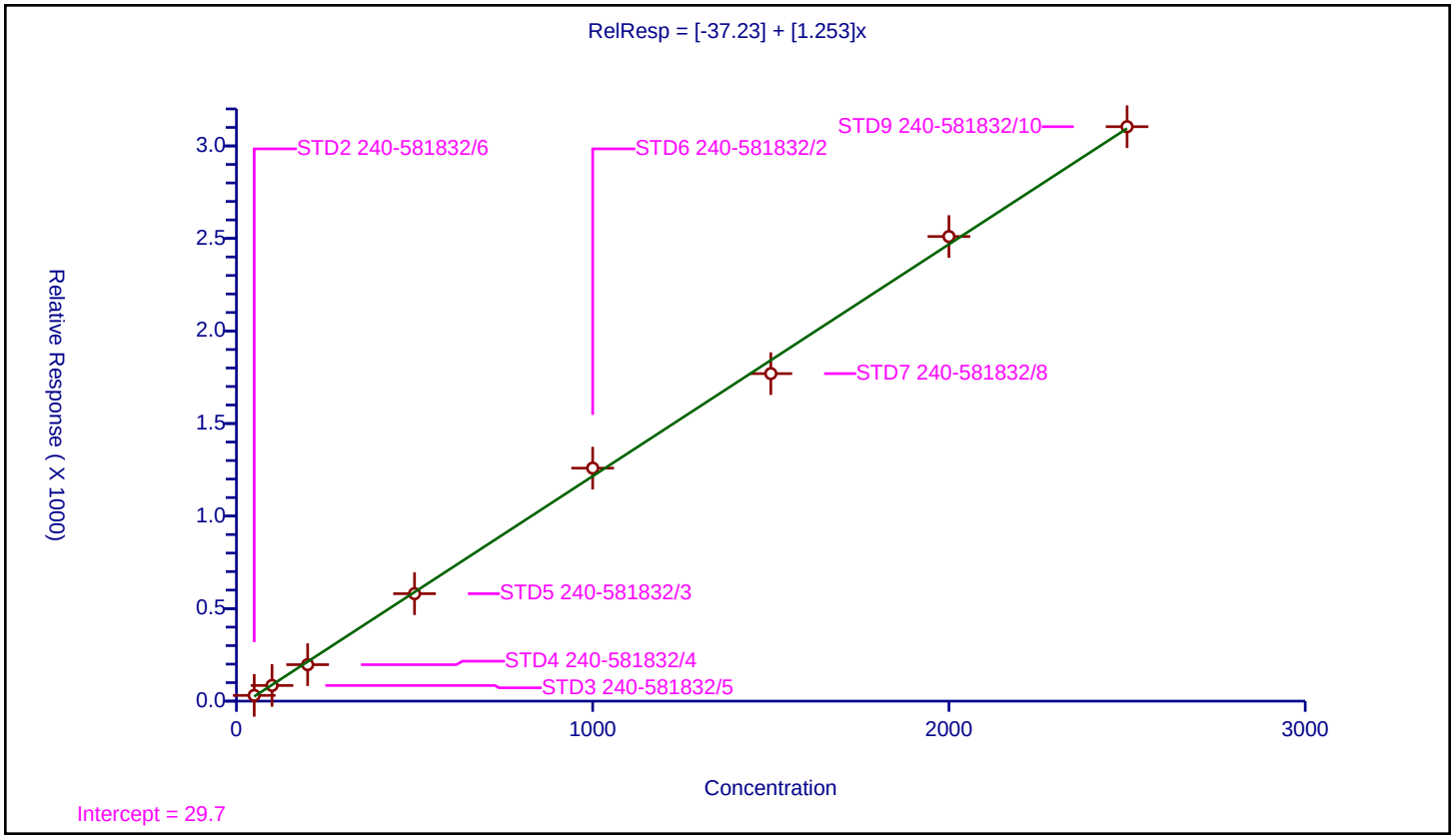
Curve Coefficients

Intercept:	-37.23
Slope:	1.253

Error Coefficients

Standard Error:	2850000
Relative Standard Error:	5.2
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581832/6	50.0	31.015716	400.0	514307.0	0.620314	Y
2	STD3 240-581832/5	100.0	84.651337	400.0	527401.0	0.846513	Y
3	STD4 240-581832/4	200.0	197.106537	400.0	556012.0	0.985533	Y
4	STD5 240-581832/3	500.0	580.647417	400.0	577711.0	1.161295	Y
5	STD6 240-581832/2	1000.0	1258.985367	400.0	581412.0	1.258985	Y
6	STD7 240-581832/8	1500.0	1769.754475	400.0	587882.0	1.179836	Y
7	STD8 240-581832/9	2000.0	2510.402684	400.0	636778.0	1.255201	Y
8	STD9 240-581832/10	2500.0	3103.92999	400.0	605167.0	1.241572	Y



8/12/2023
10:47 AM

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

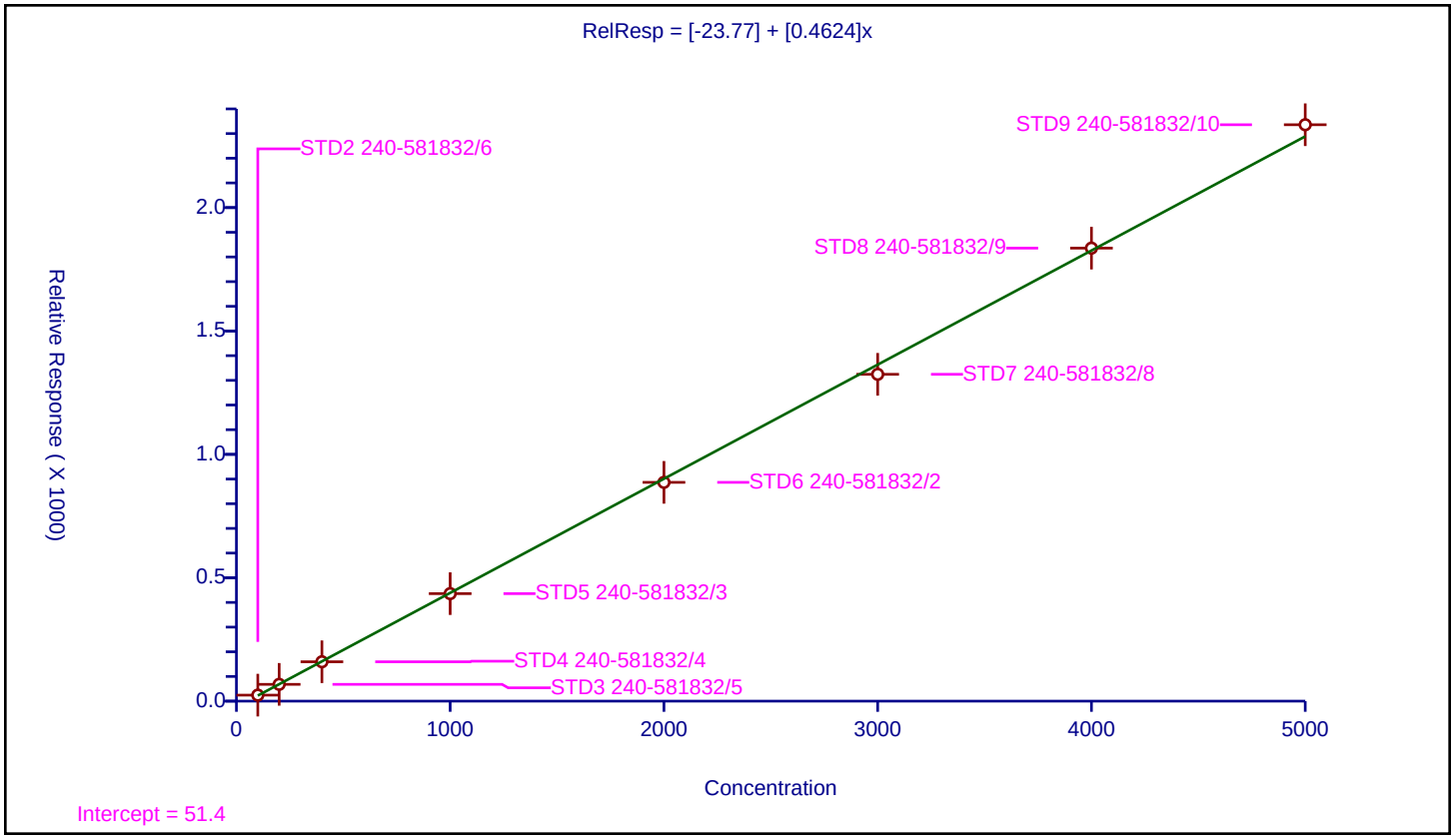
Curve Coefficients

Intercept:	-23.77
Slope:	0.4624

Error Coefficients

Standard Error:	2120000
Relative Standard Error:	2.3
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581832/6	100.0	24.344992	400.0	514307.0	0.24345	Y
2	STD3 240-581832/5	200.0	68.064338	400.0	527401.0	0.340322	Y
3	STD4 240-581832/4	400.0	159.564901	400.0	556012.0	0.398912	Y
4	STD5 240-581832/3	1000.0	435.664891	400.0	577711.0	0.435665	Y
5	STD6 240-581832/2	2000.0	886.638047	400.0	581412.0	0.443319	Y
6	STD7 240-581832/8	3000.0	1324.44198	400.0	587882.0	0.441481	Y
7	STD8 240-581832/9	4000.0	1835.748094	400.0	636778.0	0.458937	Y
8	STD9 240-581832/10	5000.0	2335.734764	400.0	605167.0	0.467147	Y



Calibration / Benzo[a]anthracene

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

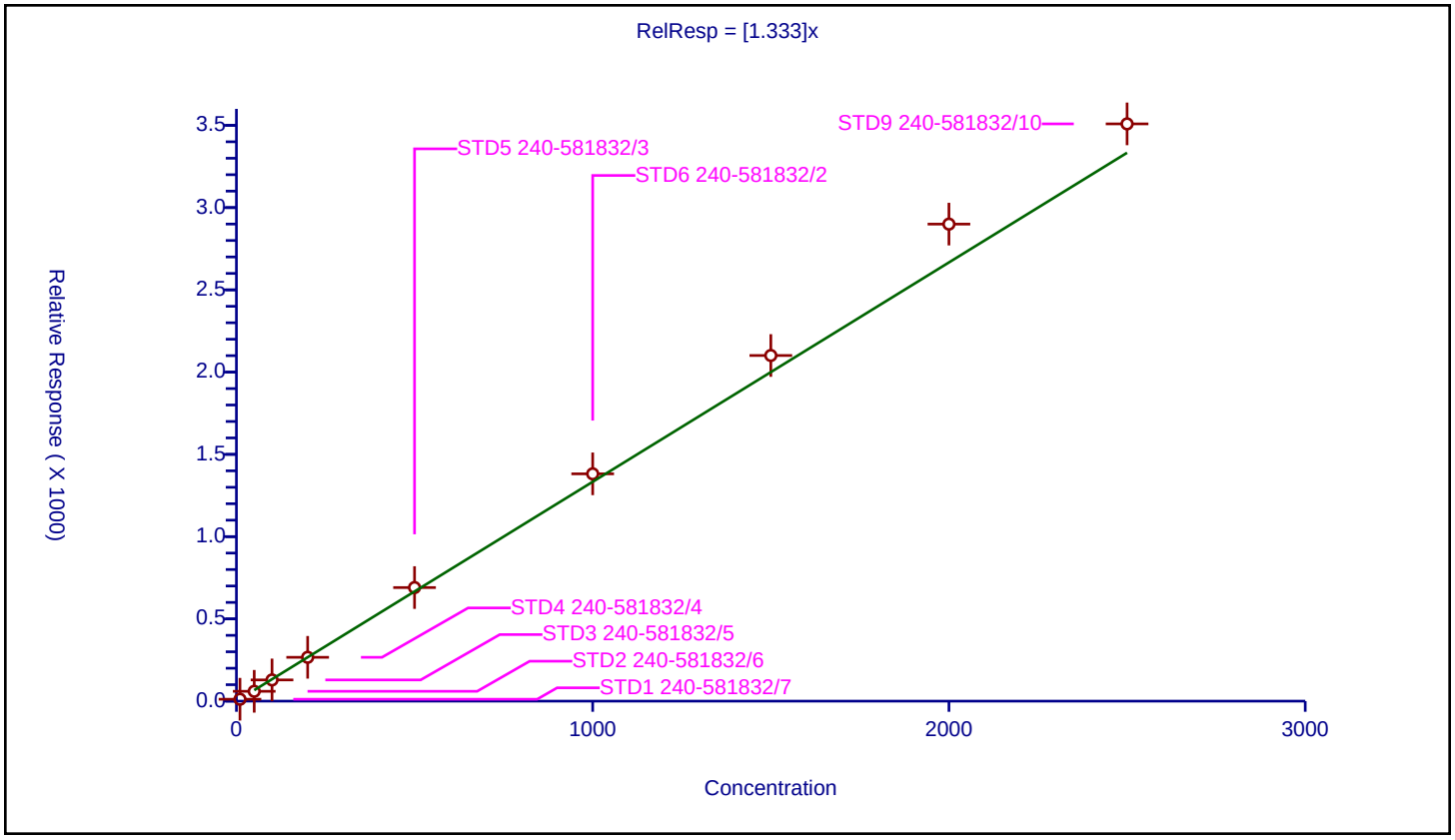
Curve Coefficients

Intercept:	0
Slope:	1.333

Error Coefficients

Standard Error:	2830000
Relative Standard Error:	7.3
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 240-581832/7	10.0	11.644179	400.0	519092.0	1.164418	Y
2	STD2 240-581832/6	50.0	59.840523	400.0	514307.0	1.19681	Y
3	STD3 240-581832/5	100.0	128.984207	400.0	527401.0	1.289842	Y
4	STD4 240-581832/4	200.0	266.479141	400.0	556012.0	1.332396	Y
5	STD5 240-581832/3	500.0	690.338249	400.0	577711.0	1.380676	Y
6	STD6 240-581832/2	1000.0	1381.776778	400.0	581412.0	1.381777	Y
7	STD7 240-581832/8	1500.0	2100.961758	400.0	587882.0	1.400641	Y
8	STD8 240-581832/9	2000.0	2899.596406	400.0	636778.0	1.449798	Y
9	STD9 240-581832/10	2500.0	3508.877384	400.0	605167.0	1.403551	Y



Calibration / Chrysene

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

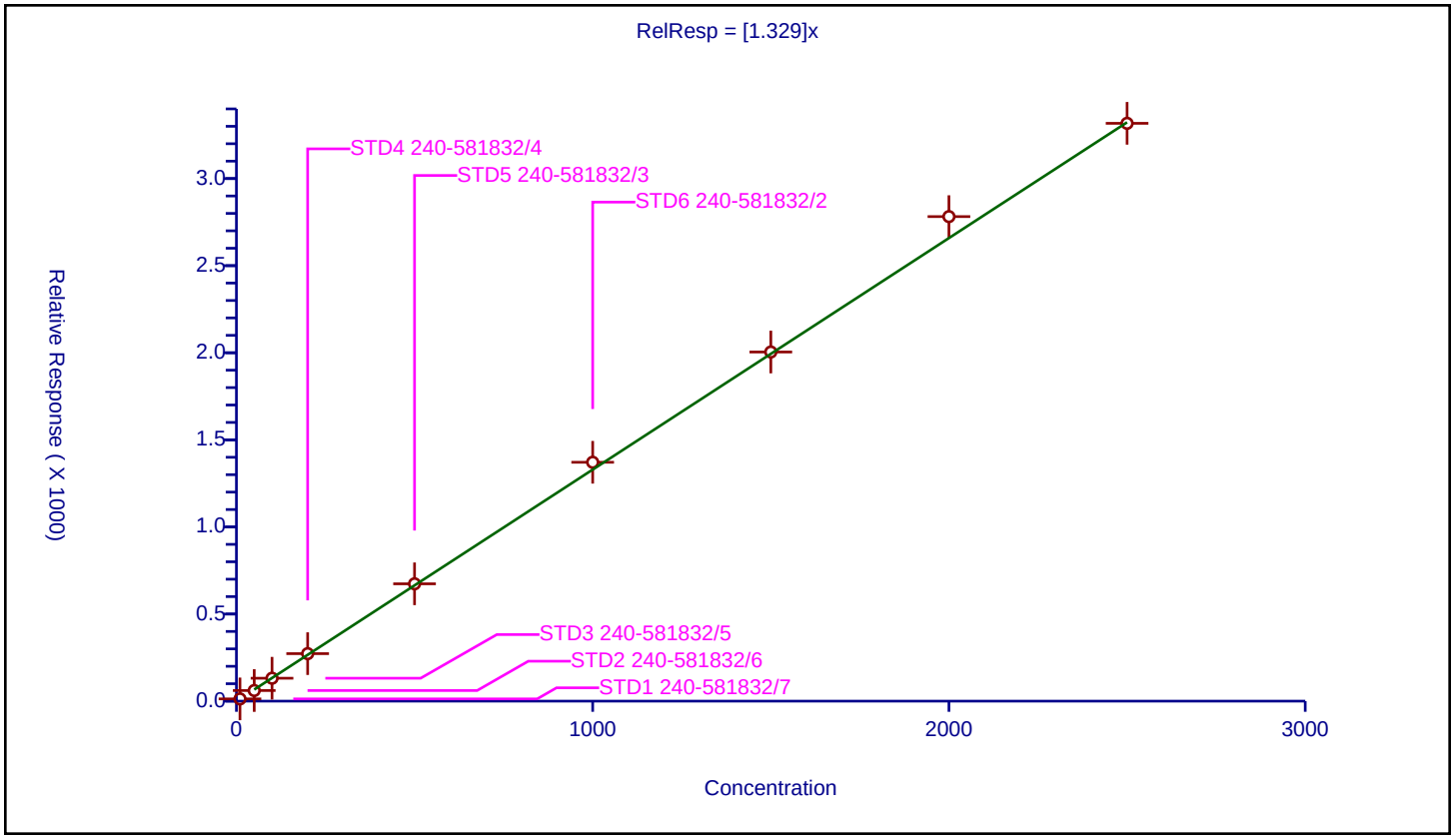
Curve Coefficients

Intercept:	0
Slope:	1.329

Error Coefficients

Standard Error:	2700000
Relative Standard Error:	3.8
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 240-581832/7	10.0	12.917941	400.0	519092.0	1.291794	Y
2	STD2 240-581832/6	50.0	60.992364	400.0	514307.0	1.219847	Y
3	STD3 240-581832/5	100.0	131.523452	400.0	527401.0	1.315235	Y
4	STD4 240-581832/4	200.0	272.640159	400.0	556012.0	1.363201	Y
5	STD5 240-581832/3	500.0	673.653782	400.0	577711.0	1.347308	Y
6	STD6 240-581832/2	1000.0	1371.358004	400.0	581412.0	1.371358	Y
7	STD7 240-581832/8	1500.0	2004.338966	400.0	587882.0	1.336226	Y
8	STD8 240-581832/9	2000.0	2781.619968	400.0	636778.0	1.39081	Y
9	STD9 240-581832/10	2500.0	3317.100238	400.0	605167.0	1.32684	Y



Calibration / Di-n-octyl phthalate

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

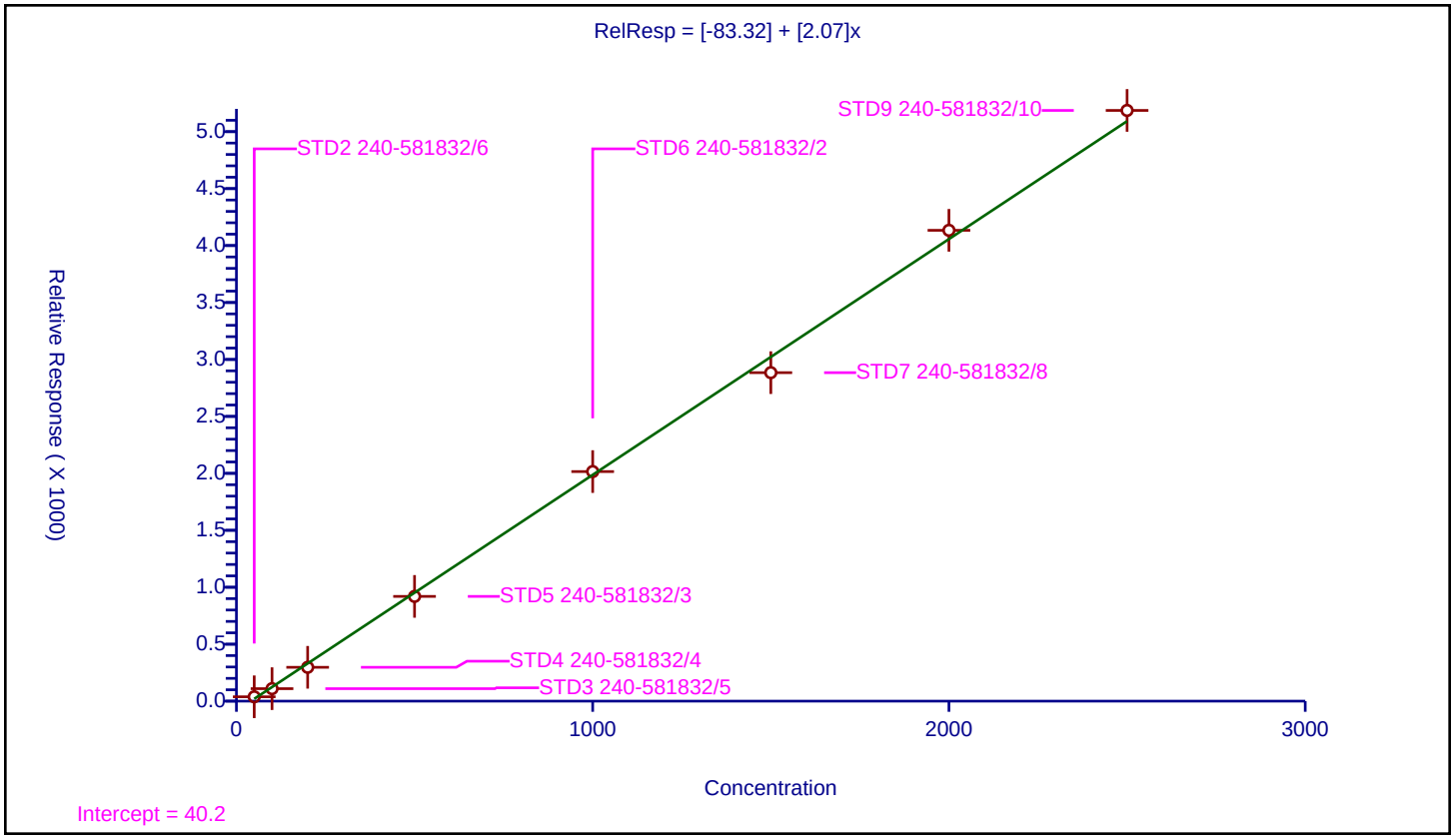
Curve Coefficients

Intercept:	-83.32
Slope:	2.07

Error Coefficients

Standard Error:	4560000
Relative Standard Error:	8.7
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581832/6	50.0	38.297584	400.0	502110.0	0.765952	Y
2	STD3 240-581832/5	100.0	109.454745	400.0	506222.0	1.094547	Y
3	STD4 240-581832/4	200.0	297.076889	400.0	534978.0	1.485384	Y
4	STD5 240-581832/3	500.0	919.571168	400.0	549119.0	1.839142	Y
5	STD6 240-581832/2	1000.0	2015.557698	400.0	571627.0	2.015558	Y
6	STD7 240-581832/8	1500.0	2884.089774	400.0	562437.0	1.922727	Y
7	STD8 240-581832/9	2000.0	4133.833673	400.0	613983.0	2.066917	Y
8	STD9 240-581832/10	2500.0	5186.502861	400.0	588421.0	2.074601	Y



8/12/2023
10:47 AM

Calibration / Benzo[b]fluoranthene

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

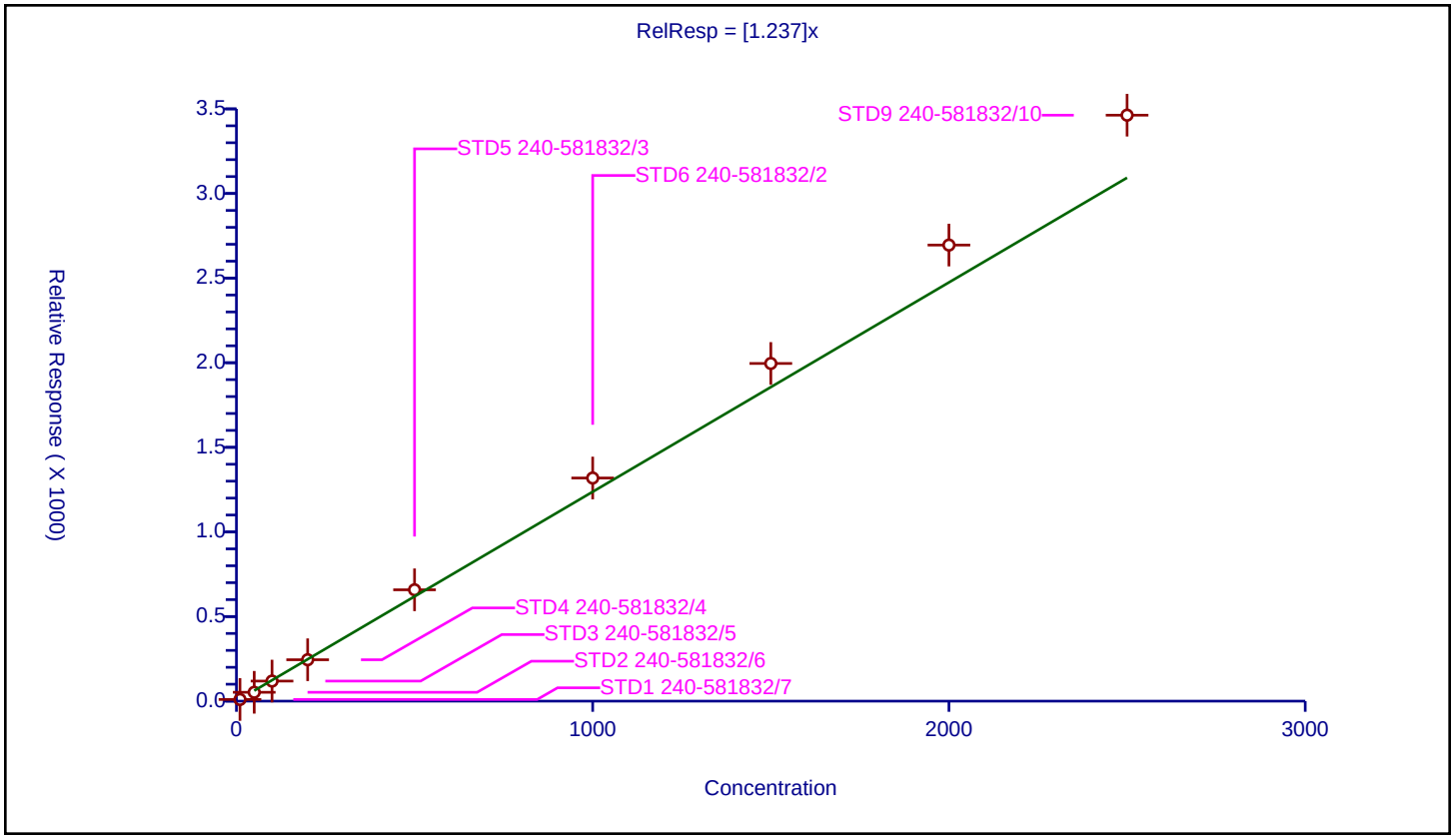
Curve Coefficients

Intercept:	0
Slope:	1.237

Error Coefficients

Standard Error:	2630000
Relative Standard Error:	11.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 240-581832/7	10.0	9.825062	400.0	495834.0	0.982506	Y
2	STD2 240-581832/6	50.0	52.32001	400.0	502110.0	1.0464	Y
3	STD3 240-581832/5	100.0	118.543248	400.0	506222.0	1.185432	Y
4	STD4 240-581832/4	200.0	244.622396	400.0	534978.0	1.223112	Y
5	STD5 240-581832/3	500.0	658.022032	400.0	549119.0	1.316044	Y
6	STD6 240-581832/2	1000.0	1318.582922	400.0	571627.0	1.318583	Y
7	STD7 240-581832/8	1500.0	1995.549368	400.0	562437.0	1.330366	Y
8	STD8 240-581832/9	2000.0	2695.273322	400.0	613983.0	1.347637	Y
9	STD9 240-581832/10	2500.0	3462.871651	400.0	588421.0	1.385149	Y



Calibration / Benzo[k]fluoranthene

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

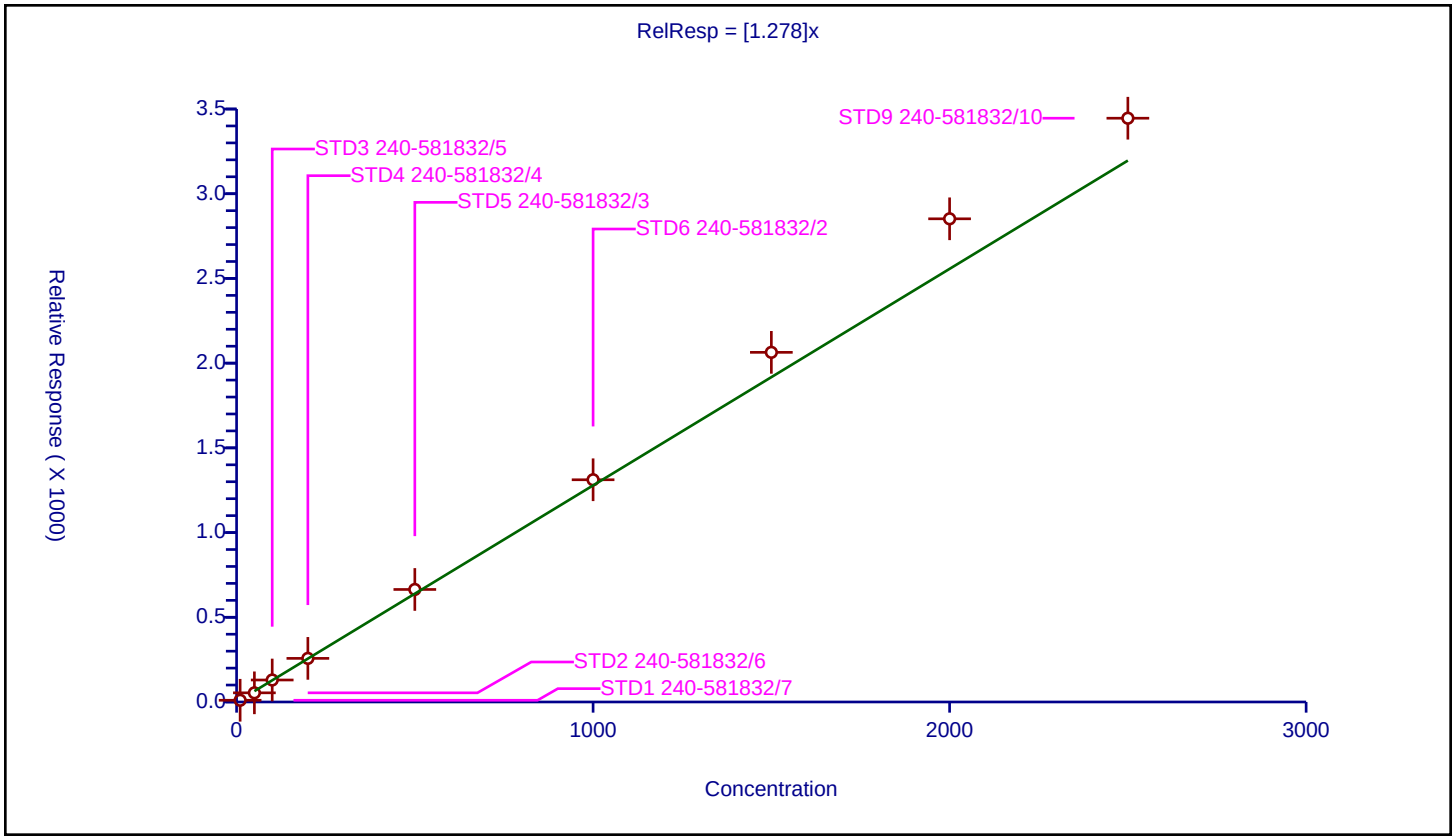
Curve Coefficients

Intercept:	0
Slope:	1.278

Error Coefficients

Standard Error:	2690000
Relative Standard Error:	10.8
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 240-581832/7	10.0	10.181633	400.0	495834.0	1.018163	Y
2	STD2 240-581832/6	50.0	54.046325	400.0	502110.0	1.080926	Y
3	STD3 240-581832/5	100.0	129.843428	400.0	506222.0	1.298434	Y
4	STD4 240-581832/4	200.0	257.38479	400.0	534978.0	1.286924	Y
5	STD5 240-581832/3	500.0	664.135096	400.0	549119.0	1.32827	Y
6	STD6 240-581832/2	1000.0	1311.672822	400.0	571627.0	1.311673	Y
7	STD7 240-581832/8	1500.0	2063.669353	400.0	562437.0	1.37578	Y
8	STD8 240-581832/9	2000.0	2851.927822	400.0	613983.0	1.425964	Y
9	STD9 240-581832/10	2500.0	3445.728823	400.0	588421.0	1.378292	Y



Calibration / Benzo[a]pyrene

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

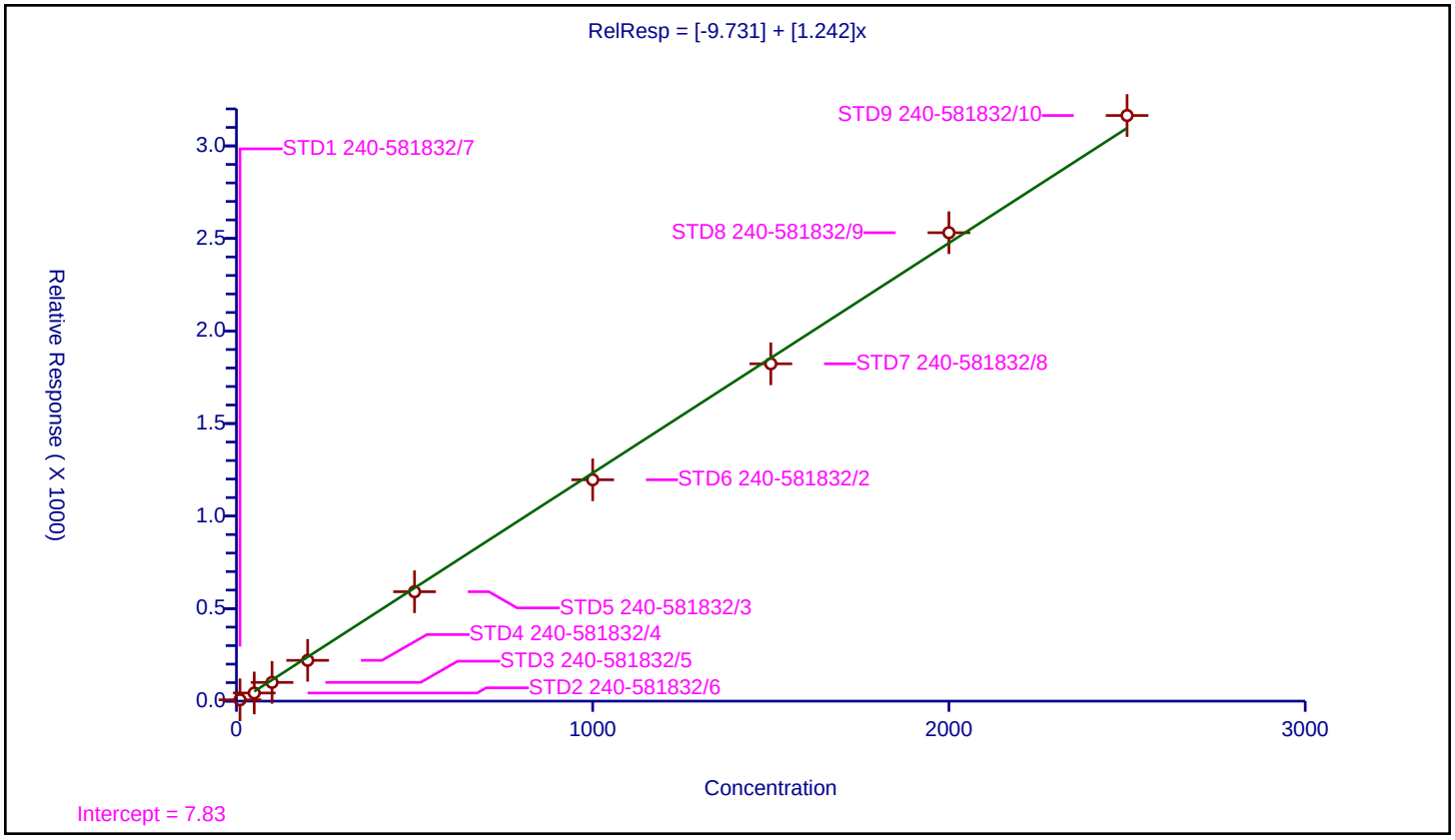
Curve Coefficients

Intercept:	-9.731
Slope:	1.242

Error Coefficients

Standard Error:	2590000
Relative Standard Error:	15.2
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 240-581832/7	10.0	7.057201	400.0	495834.0	0.70572	Y
2	STD2 240-581832/6	50.0	43.90751	400.0	502110.0	0.87815	Y
3	STD3 240-581832/5	100.0	101.30022	400.0	506222.0	1.013002	Y
4	STD4 240-581832/4	200.0	220.44271	400.0	534978.0	1.102214	Y
5	STD5 240-581832/3	500.0	591.233594	400.0	549119.0	1.182467	Y
6	STD6 240-581832/2	1000.0	1196.107952	400.0	571627.0	1.196108	Y
7	STD7 240-581832/8	1500.0	1822.84807	400.0	562437.0	1.215232	Y
8	STD8 240-581832/9	2000.0	2531.032944	400.0	613983.0	1.265516	Y
9	STD9 240-581832/10	2500.0	3164.324863	400.0	588421.0	1.26573	Y



8/12/2023
10:47 AM

Calibration / Indeno[1,2,3-cd]pyrene

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

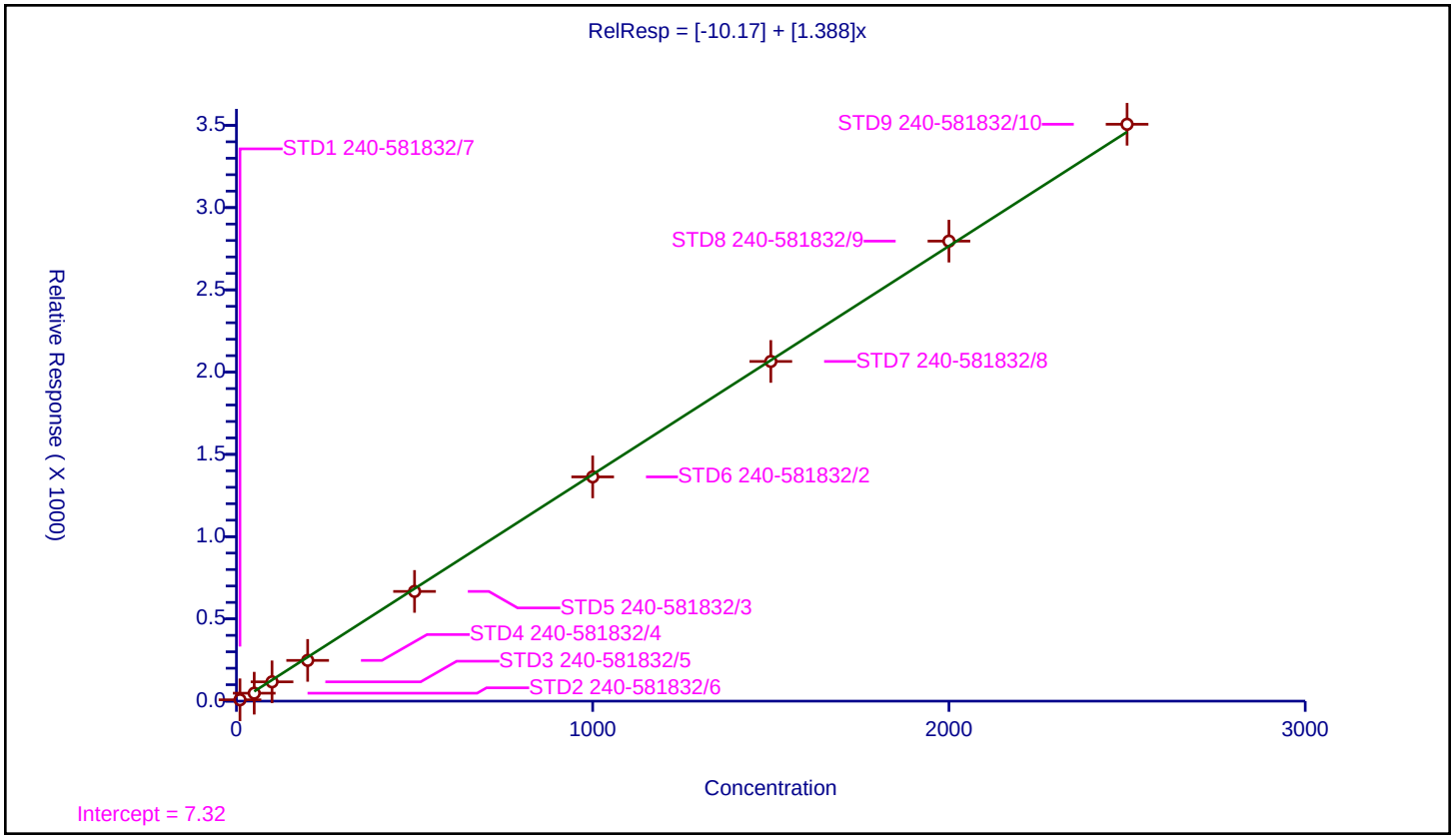
Curve Coefficients

Intercept:	-10.17
Slope:	1.388

Error Coefficients

Standard Error:	2880000
Relative Standard Error:	14.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 240-581832/7	10.0	8.230981	400.0	495834.0	0.823098	Y
2	STD2 240-581832/6	50.0	48.276274	400.0	502110.0	0.965525	Y
3	STD3 240-581832/5	100.0	117.300315	400.0	506222.0	1.173003	Y
4	STD4 240-581832/4	200.0	247.671493	400.0	534978.0	1.238357	Y
5	STD5 240-581832/3	500.0	666.986209	400.0	549119.0	1.333972	Y
6	STD6 240-581832/2	1000.0	1363.140649	400.0	571627.0	1.363141	Y
7	STD7 240-581832/8	1500.0	2064.87411	400.0	562437.0	1.376583	Y
8	STD8 240-581832/9	2000.0	2796.250711	400.0	613983.0	1.398125	Y
9	STD9 240-581832/10	2500.0	3506.508435	400.0	588421.0	1.402603	Y



Calibration / Dibenz(a,h)anthracene

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

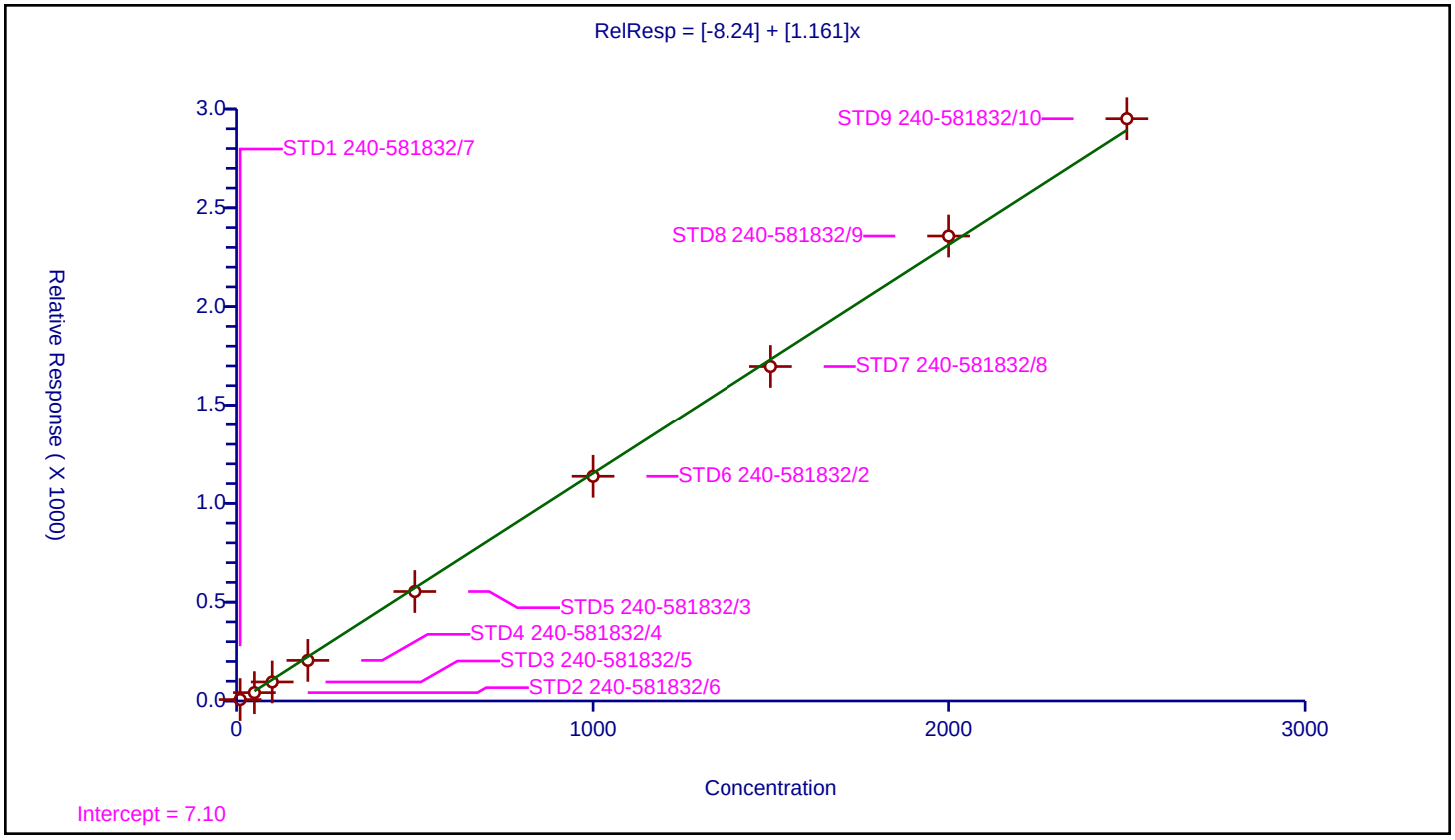
Curve Coefficients

Intercept:	-8.24
Slope:	1.161

Error Coefficients

Standard Error:	2420000
Relative Standard Error:	14.5
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 240-581832/7	10.0	7.237906	400.0	495834.0	0.723791	Y
2	STD2 240-581832/6	50.0	42.270419	400.0	502110.0	0.845408	Y
3	STD3 240-581832/5	100.0	96.320587	400.0	506222.0	0.963206	Y
4	STD4 240-581832/4	200.0	205.432747	400.0	534978.0	1.027164	Y
5	STD5 240-581832/3	500.0	553.937489	400.0	549119.0	1.107875	Y
6	STD6 240-581832/2	1000.0	1136.954692	400.0	571627.0	1.136955	Y
7	STD7 240-581832/8	1500.0	1697.309388	400.0	562437.0	1.13154	Y
8	STD8 240-581832/9	2000.0	2357.420319	400.0	613983.0	1.17871	Y
9	STD9 240-581832/10	2500.0	2950.990532	400.0	588421.0	1.180396	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

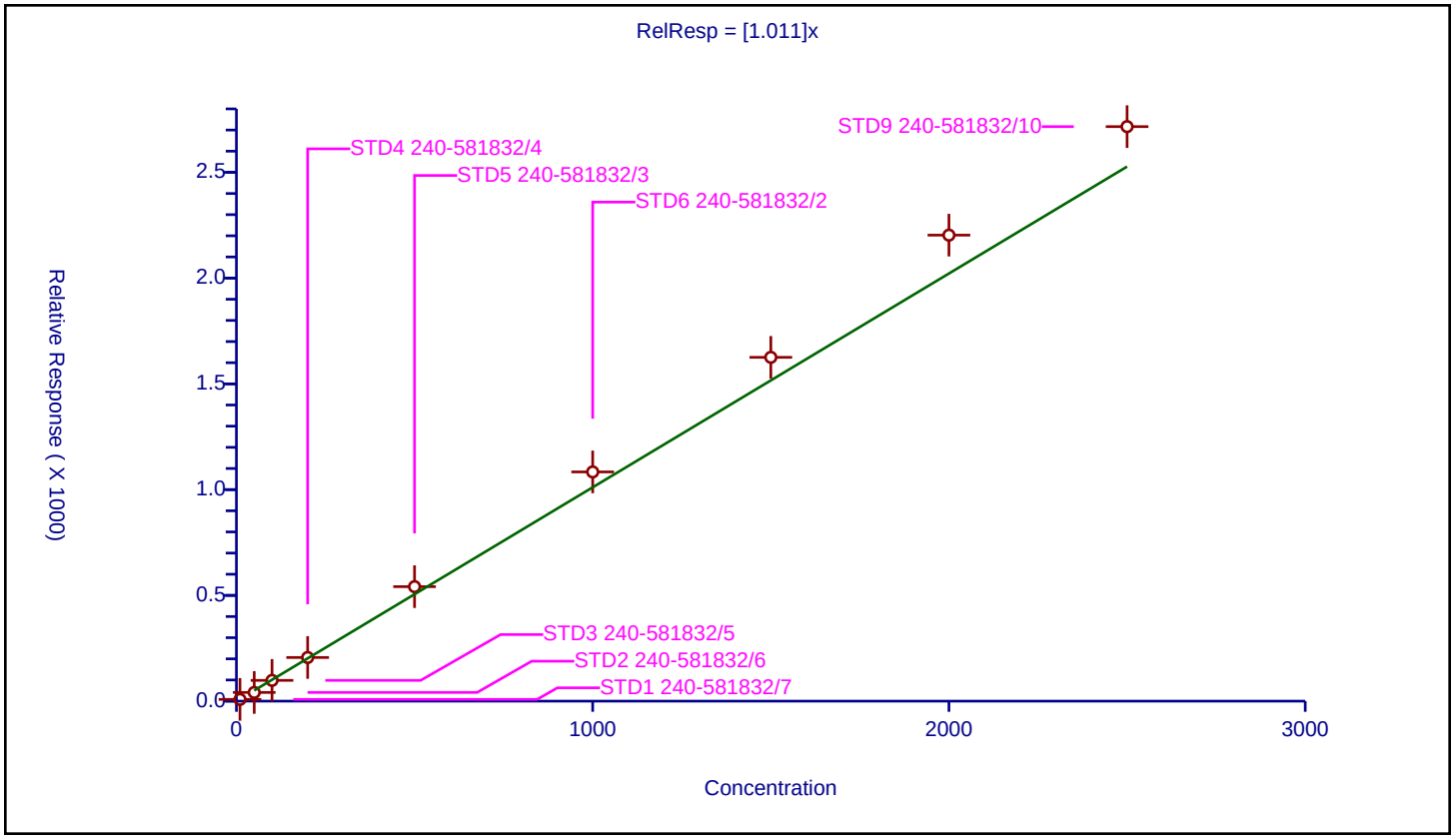
Curve Coefficients

Intercept:	0
Slope:	1.011

Error Coefficients

Standard Error:	2110000
Relative Standard Error:	11.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 240-581832/7	10.0	8.236628	400.0	495834.0	0.823663	Y
2	STD2 240-581832/6	50.0	41.165482	400.0	502110.0	0.82331	Y
3	STD3 240-581832/5	100.0	98.123748	400.0	506222.0	0.981237	Y
4	STD4 240-581832/4	200.0	206.347925	400.0	534978.0	1.03174	Y
5	STD5 240-581832/3	500.0	541.29105	400.0	549119.0	1.082582	Y
6	STD6 240-581832/2	1000.0	1083.694087	400.0	571627.0	1.083694	Y
7	STD7 240-581832/8	1500.0	1625.388799	400.0	562437.0	1.083593	Y
8	STD8 240-581832/9	2000.0	2203.102692	400.0	613983.0	1.101551	Y
9	STD9 240-581832/10	2500.0	2716.089331	400.0	588421.0	1.086436	Y



8/12/2023
10:47 AM

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

Lab Name: Eurofins Cleveland Job No.: 240-189273-1 Analy Batch No.: 581979

SDG No.:

Instrument ID: A4AG2 GC Column: RXI-5SILMS/ ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/27/2023 09:28 Calibration End Date: 07/27/2023 12:11 Calibration ID: 71269

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD2 240-581979/6	6.D
Level 2	STD3 240-581979/5	5.D
Level 3	STD4 240-581979/4	CCV L3LVI.D
Level 4	STD5 240-581979/3	CCV L2LVI.D
Level 5	STD6 240-581979/7	7.D
Level 6	STD7 240-581979/8	8.D
Level 7	STD8 240-581979/9	9.D
Level 8	STD9 240-581979/10	10.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
2-Picoline	1.0551 1.1854	1.0300 1.0620	1.0840 1.1575	1.1765	1.1865	Ave		1.1171				5.9		20.0			
N-Nitrosomethylethylamine	0.7666 0.7521	0.7040 0.7164	0.7155 0.7056	0.7515	0.8387	Ave		0.7438				6.1		20.0			
Methyl methanesulfonate	0.9457 0.8527	0.8872 0.7781	0.8333 0.7405	0.8159	0.8692	Ave		0.8403				7.6		20.0			
N-Nitrosodiethylamine	0.8138 0.8336	0.7284 0.7585	0.7561 0.7442	0.8024	0.8819	Ave		0.7899				6.6		20.0			
Ethyl methanesulfonate	1.3502 1.2199	1.2368 1.0742	1.2020 1.0776	1.1148	1.2889	Ave		1.1956				8.4		20.0			
Pentachloroethane	0.3572 0.4032	0.3825 0.3876	0.3875 0.4157	0.4220	0.4219	Ave		0.3972				5.7		20.0			
N-Nitrosopyrrolidine	0.7415 0.8729	0.6779 0.8387	0.7352 0.8253	0.7571	0.9248	Ave		0.7967				10.3		20.0			
N-Nitrosomorpholine	0.9502 0.9072	0.7752 0.8458	0.8207 0.8506	0.8001	1.0199	Ave		0.8712				9.5		20.0			
o-Toluidine	2.4657 2.6573	2.3420 2.5077	2.5270 2.4396	2.1675	2.5821	Ave		2.4611				6.2		20.0			
N-Nitrosopiperidine	0.1458 0.1806	0.1521 0.1817	0.1571 0.1705	0.1815	0.1916	Ave		0.1701				9.7		20.0			
o,o',o''-Triethylphosphorothioate	0.1377 0.1353	0.1300 0.1398	0.1410 0.1296	0.1413	0.1439	Ave		0.1373				3.9		20.0			
alpha,alpha-Dimethyl phenethylamine	0.5369 0.6201	0.4344 0.5985	0.5607 +++++	0.5978	0.5900	Lin1	-8.216	0.6086							0.9990		0.9900
Hexachloropropene	0.1290 0.1430	0.1246 0.1457	0.1311 0.1442	0.1475	0.1457	Ave		0.1389			0.0100	6.5		20.0			

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

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

Lab Name: Eurofins Cleveland Job No.: 240-189273-1 Analy Batch No.: 581979

SDG No.:

Instrument ID: A4AG2 GC Column: RXI-5SILMS/ ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/27/2023 09:28 Calibration End Date: 07/27/2023 12:11 Calibration ID: 71269

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Quinoline	0.6170 0.7018	0.5260 0.6684	0.6022 0.6359	0.7869	0.7465	Lin1	-4.459	0.6826							0.9930		0.9900
N-Nitrosodi-n-butylamine	0.1839 0.2127	0.2020 0.2080	0.2240 0.2010	0.2515	0.2324	Ave		0.2144				9.8		20.0			
p-Phenylene diamine	+++++ 0.2313	0.0770 0.2366	0.1253 0.2272	0.2035	0.2235	Lin1	-18.26	0.2402							0.9990		0.9900
Safrole, Total	0.2065 0.2725	0.1866 0.2526	0.2216 0.2509	0.2801	0.2678	Lin1	-3.894	0.2616							0.9970		0.9900
Isosafrole Peak 1	0.1049 0.5310	0.3609 0.5401	0.4606 0.5441	0.5420	0.5433	Lin1	-3.249	0.5538							1.0000		0.9900
Isosafrole Peak 2	0.3843 0.6030	0.4843 0.5953	0.5630 0.5964	0.5947	0.6054	Ave		0.5533				14.3		20.0			
1,4-Naphthoquinone	0.2993 0.4065	0.2436 0.3931	0.3051 0.4028	0.3617	0.3873	Lin1	-10.53	0.4020							0.9980		0.9900
1,4-Dinitrobenzene	0.1211 0.1821	0.1192 0.1839	0.1462 0.1921	0.1686	0.1715	Lin1	-5.304	0.1868							0.9980		0.9900
Pentachlorobenzene	0.0931 0.3600	0.0903 0.3634	0.2386 0.3611	0.3546	0.3665	Qua	-23.48	0.3949	-0.000010						1.0000		0.9900
1-Naphthylamine	1.2094 1.1644	1.1261 1.1156	1.1344 1.0652	1.2125	1.2277	Ave		1.1569				4.9		20.0			
2-Naphthylamine	1.3482 1.1858	1.2347 1.1305	1.2558 1.0801	1.2971	1.2618	Ave		1.2242				7.2		20.0			
Thionazin	0.3117 0.2915	0.2978 0.2801	0.2786 0.2801	0.2977	0.3022	Ave		0.2925				4.1		20.0			
N-Nitro-o-toluidine	0.2735 0.3678	0.2745 0.3808	0.3125 0.3845	0.3589	0.3730	Ave		0.3407				13.7		20.0			
Sulfotepp	0.0770 0.0850	0.0749 0.0857	0.0753 0.0872	0.0812	0.0867	Ave		0.0816				6.4		20.0			
1,3,5-Trinitrobenzene	+++++ 0.0617	0.0232 0.0643	0.0314 0.0679	0.0442	0.0543	Qua	-4.489	0.0533	0.0000066						1.0000		0.9900
Diallate Peak 1	0.4073 0.3979	0.3834 0.3752	0.3963 0.3718	0.4076	0.4136	Ave		0.3941				4.0		20.0			
Phenacetin	0.3054 0.4019	0.2800 0.3929	0.3352 0.3825	0.3977	0.4110	Lin1	-6.910	0.3975							0.9980		0.9900
Phorate	0.1709 0.1917	0.1717 0.1814	0.1781 0.1750	0.1818	0.1933	Ave		0.1805				4.7		20.0			

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

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

Lab Name: Eurofins Cleveland Job No.: 240-189273-1 Analy Batch No.: 581979

SDG No.:

Instrument ID: A4AG2 GC Column: RXI-5SILMS/ ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/27/2023 09:28 Calibration End Date: 07/27/2023 12:11 Calibration ID: 71269

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Diallate Peak 2	0.3850 0.3918	0.3598 0.3855	0.3683 0.3909	0.3792	0.3951	Ave		0.3819				3.2		20.0			
Dimethoate	0.2388 0.3334	0.2385 0.3178	0.2864 0.3037	0.3338	0.3437	Lin1	-4.786	0.3232							0.9970		0.9900
4-Aminobiphenyl	0.5963 0.8433	0.6097 0.8456	0.6956 0.8348	0.7565	0.8213	Ave		0.7504				13.9		20.0			
Pronamide	0.2571 0.3462	0.2600 0.3408	0.2905 0.3395	0.3134	0.3398	Ave		0.3109				12.0		20.0			
Pentachloronitrobenzene	0.0487 0.0688	0.0514 0.0693	0.0575 0.0711	0.0655	0.0705	Ave		0.0629				14.3		20.0			
Disulfoton	0.4395 0.4876	0.4178 0.4667	0.4562 0.4577	0.4813	0.4961	Ave		0.4629				5.6		20.0			
Dinoseb	+++++ 0.1339	0.0431 0.1481	0.0699 0.1578	0.1011	0.1161	Qua	-7.383	0.1037	0.0000231						1.0000		0.9900
Methyl parathion	0.1302 0.2756	0.1444 0.2642	0.1923 0.2564	0.2451	0.2675	Lin1	-9.404	0.2685							0.9980		0.9900
Ethyl Parathion	0.0697 0.1662	0.0847 0.1663	0.1116 0.1657	0.1509	0.1591	Lin1	-6.845	0.1681							0.9990		0.9900
4-Nitroquinoline-1-oxide	+++++ 0.0775	0.0224 0.0883	0.0328 0.0943	0.0499	0.0637	Qua	-5.170	0.0548	0.0000170						0.9990		0.9900
Methapyrilene	0.5133 0.5935	0.5538 0.5669	0.5935 0.5358	0.6438	0.6265	Ave		0.5784				7.7		20.0			
Isodrin	0.1298 0.1125	0.1171 0.1101	0.1147 0.1087	0.1166	0.1147	Ave		0.1155				5.6		20.0			
Aramite Peak 1	0.1026 0.1426	0.1011 0.1480	0.1254 0.1529	0.1393	0.1355	Lin1	-1.711	0.1485							0.9980		0.9900
Aramite Peak 2	0.1295 0.1883	0.1296 0.1906	0.1576 0.1980	0.1860	0.1834	Lin1	-2.506	0.1942							0.9990		0.9900
p-Dimethylamino azobenzene	0.1735 0.2946	0.1961 0.3012	0.2565 0.3161	0.2783	0.2866	Qua	-4.120	0.2694	0.0000187						1.0000		0.9900
Chlorobenzilate	0.4609 0.5674	0.4772 0.5749	0.5428 0.5885	0.5515	0.5755	Ave		0.5423				8.8		20.0			
Famphur	0.1697 +++++	0.2043 +++++	0.2356 +++++	0.1988	0.1148	Ave		0.1846				24.7	*	20.0			
3,3'-Dimethylbenzidine	+++++ 0.6989	0.2871 0.7508	0.5271 0.8166	0.6572	0.6800	Qua	-10.45	0.5758	0.0000954						0.9990		0.9900

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

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

Lab Name: Eurofins Cleveland Job No.: 240-189273-1 Analy Batch No.: 581979

SDG No.:

Instrument ID: A4AG2 GC Column: RXI-5SILMS/ ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/27/2023 09:28 Calibration End Date: 07/27/2023 12:11 Calibration ID: 71269

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
2-Acetylaminofluorene	0.2401 0.6093	0.2833 0.6330	0.3977 0.6711	0.5480	0.5622	Lin1	-30.60	0.6444							0.9960		0.9900
4,4'-Methylene bis(2-chloroaniline)	0.1241 0.2524	0.1462 0.2583	0.2071 0.2685	0.2406	0.2476	Lin1	-9.231	0.2638							0.9990		0.9900
6-Methylchrysene	0.9468 1.0197	0.9274 1.0079	0.9536 1.0292	0.9994	1.0344	Ave		0.9898				4.2		20.0			
7,12-Dimethylbenz(a)anthracene	0.4266 0.5903	0.4462 0.5977	0.4935 0.6181	0.5617	0.5716	Ave		0.5382				13.5		20.0			
3-Methylcholanthrene	0.5257 0.7459	0.5578 0.7622	0.6223 0.7839	0.6839	0.7457	Ave		0.6784				14.6		20.0			
Dibenz[a,h]acridine	0.6432 0.9610	0.7100 0.9854	0.7874 1.0170	0.8833	0.9379	Lin1	-25.94	0.9940							0.9990		0.9900

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

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

Lab Name: Eurofins Cleveland Job No.: 240-189273-1 Analy Batch No.: 581979

SDG No.:

Instrument ID: A4AG2 GC Column: RXI-5SILMS/ ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/27/2023 09:28 Calibration End Date: 07/27/2023 12:11 Calibration ID: 71269

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD2 240-581979/6	6.D
Level 2	STD3 240-581979/5	5.D
Level 3	STD4 240-581979/4	CCV L3LVI.D
Level 4	STD5 240-581979/3	CCV L2LVI.D
Level 5	STD6 240-581979/7	7.D
Level 6	STD7 240-581979/8	8.D
Level 7	STD8 240-581979/9	9.D
Level 8	STD9 240-581979/10	10.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/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-Picoline	DCBd 4	Ave	25188	50475	125375	349209	616382	50.0	100	200	500	1000
			952645	1325155	1823452			1500	2000	2500		
N-Nitrosomethylethylamine	DCBd 4	Ave	18302	34500	82754	223076	435671	50.0	100	200	500	1000
			604450	893912	1111594			1500	2000	2500		
Methyl methanesulfonate	DCBd 4	Ave	22577	43479	96381	242192	451503	50.0	100	200	500	1000
			685261	970809	1166553			1500	2000	2500		
N-Nitrosodiethylamine	DCBd 4	Ave	19428	35697	87453	238182	458100	50.0	100	200	500	1000
			669952	946391	1172403			1500	2000	2500		
Ethyl methanesulfonate	DCBd 4	Ave	32234	60612	139022	330905	669548	50.0	100	200	500	1000
			980373	1340287	1697536			1500	2000	2500		
Pentachloroethane	DCBd 4	Ave	8527	18744	44813	125246	219176	50.0	100	200	500	1000
			324060	483628	654867			1500	2000	2500		
N-Nitrosopyrrolidine	DCBd 4	Ave	17703	33220	85029	224733	480413	50.0	100	200	500	1000
			701517	1046486	1300170			1500	2000	2500		
N-Nitrosomorpholine	DCBd 4	Ave	22685	37987	94915	237486	529821	50.0	100	200	500	1000
			729030	1055323	1340011			1500	2000	2500		
o-Toluidine	DCBd 4	Ave	58866	114773	292266	643363	1341335	50.0	100	200	500	1000

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

Lab Name: Eurofins Cleveland Job No.: 240-189273-1 Analy Batch No.: 581979

SDG No.:

Instrument ID: A4AG2 GC Column: RXI-5SILMS/ ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/27/2023 09:28 Calibration End Date: 07/27/2023 12:11 Calibration ID: 71269

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/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
			2135536	3128921	3843116			1500	2000	2500		
N-Nitrosopiperidine	NPT	Ave	18110 730773	37565 1087144	91666 1313401	235462	490408	50.0 1500	100 2000	200 2500	500	1000
o,o',o''-Triethylphosphorothioate	NPT	Ave	17113 547453	32108 836173	82269 998690	183338	368223	50.0 1500	100 2000	200 2500	500	1000
alpha,alpha-Dimethyl phenethylamine	NPT	Lin1	66713 2508883	107271 3580287	327071 +++++	775482	1509697	50.0 1500	100 2000	200 +++++	500	1000
Hexachloropropene	NPT	Ave	16033 578611	30760 871461	76481 1111015	191394	372783	50.0 1500	100 2000	200 2500	500	1000
Quinoline	NPT	Lin1	76663 2839134	129890 3998324	351299 4899599	1020798	1910429	50.0 1500	100 2000	200 2500	500	1000
N-Nitrosodi-n-butylamine	NPT	Ave	22854 860411	49886 1244316	130674 1548981	326202	594631	50.0 1500	100 2000	200 2500	500	1000
p-Phenylene diamine	NPT	Lin1	+++++ 935658	19019 1415241	73110 1750561	263989	571902	+++++ 1500	100 2000	200 2500	500	1000
Safrole, Total	NPT	Lin1	25657 1102314	46078 1511021	129272 1932864	363322	685384	50.0 1500	100 2000	200 2500	500	1000
Isosafrole Peak 1	ANT	Lin1	735 190167	7018 266248	22260 339414	66021	125115	8.00 240	16.0 320	32.0 400	80.0	160
Isosafrole Peak 2	ANT	Ave	14142 1133648	49446 1540767	142848 1953311	380271	731924	42.0 1260	84.0 1680	168 2100	420	840
1,4-Naphthoquinone	ANT	Lin1	13112 909718	29605 1211158	92162 1570349	275351	557358	50.0 1500	100 2000	200 2500	500	1000
1,4-Dinitrobenzene	ANT	Lin1	5303 407566	14489 566470	44165 748762	128389	246892	50.0 1500	100 2000	200 2500	500	1000
Pentachlorobenzene	ANT	Qua	4077 805733	10982 1119671	72087 1407680	269933	527501	50.0 1500	100 2000	200 2500	500	1000
1-Naphthylamine	ANT	Ave	52979 2606039	136872 3437097	342674 4152938	923100	1766983	50.0 1500	100 2000	200 2500	500	1000
2-Naphthylamine	ANT	Ave	59060 2653888	150078 3483069	379332 4211181	987451	1816041	50.0 1500	100 2000	200 2500	500	1000
Thionazin	ANT	Ave	13653 652495	36203 862933	84154 1092151	226642	434942	50.0 1500	100 2000	200 2500	500	1000
N-Nitro-o-toluidine	ANT	Ave	11983	33365	94397	273203	536881	50.0	100	200	500	1000

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

Lab Name: Eurofins Cleveland Job No.: 240-189273-1 Analy Batch No.: 581979

SDG No.:

Instrument ID: A4AG2 GC Column: RXI-5SILMS/ ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/27/2023 09:28 Calibration End Date: 07/27/2023 12:11 Calibration ID: 71269

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/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
			823230	1173137	1498987			1500	2000	2500		
Sulfotepp	PHN	Ave	6917 290166	16604 407962	37334 519693	98726	193087	50.0 1500	100 2000	200 2500	500	1000
1,3,5-Trinitrobenzene	PHN	Qua	+++++ 210480	5137 306044	15555 404796	53758	120978	+++++ 1500	100 2000	200 2500	500	1000
Diallate Peak 1	PHN	Ave	27087 1005216	62915 1321048	145313 1640432	366627	681386	37.0 1110	74.0 1480	148 1850	370	740
Phenacetin	PHN	Lin1	27446 1371835	62098 1869654	166114 2280644	483340	915068	50.0 1500	100 2000	200 2500	500	1000
Phorate	PHN	Ave	15361 654511	38063 862938	88239 1043579	220963	430275	50.0 1500	100 2000	200 2500	500	1000
Diallate Peak 2	PHN	Ave	8996 347757	20744 476867	47450 605916	119846	228729	13.0 390	26.0 520	52.0 650	130	260
Dimethoate	PHN	Lin1	21458 1138169	52877 1512160	141927 1810564	405667	765120	50.0 1500	100 2000	200 2500	500	1000
4-Aminobiphenyl	PHN	Ave	53588 2878785	135205 4023301	344712 4977100	919515	1828532	50.0 1500	100 2000	200 2500	500	1000
Pronamide	PHN	Ave	23107 1181791	57659 1621655	143970 2024290	380934	756597	50.0 1500	100 2000	200 2500	500	1000
Pentachloronitrobenzene	PHN	Ave	4376 234795	11407 329783	28515 423769	79565	157056	50.0 1500	100 2000	200 2500	500	1000
Disulfoton	PHN	Ave	39497 1664481	92650 2220632	226100 2728762	584959	1104546	50.0 1500	100 2000	200 2500	500	1000
Dinoseb	PHN	Qua	+++++ 457143	9556 704623	34653 940796	122912	258592	+++++ 1500	100 2000	200 2500	500	1000
Methyl parathion	PHN	Lin1	11697 940820	32018 1257112	95305 1528556	297892	595533	50.0 1500	100 2000	200 2500	500	1000
Ethyl Parathion	PHN	Lin1	6268 567273	18771 791233	55285 988208	183404	354287	50.0 1500	100 2000	200 2500	500	1000
4-Nitroquinoline-1-oxide	PHN	Qua	+++++ 264647	4971 420068	16278 562503	60679	141739	+++++ 1500	100 2000	200 2500	500	1000
Methapyrilene	PHN	Ave	92257 4052145	245615 5394729	588207 6388930	1565008	2789754	100 3000	200 4000	400 5000	1000	2000
Isodrin	PHN	Ave	11666 383893	25973 523718	56860 648166	141685	255317	50.0 1500	100 2000	200 2500	500	1000
Aramite Peak 1	CRY	Lin1	2922	6623	18455	50526	94818	24.0	48.0	96.0	240	480

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

Lab Name: Eurofins Cleveland Job No.: 240-189273-1 Analy Batch No.: 581979

SDG No.:

Instrument ID: A4AG2 GC Column: RXI-5SILMS/ ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/27/2023 09:28 Calibration End Date: 07/27/2023 12:11 Calibration ID: 71269

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/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
			156809	229038	291426			720	960	1200		
Aramite Peak 2	CRY	Lin1	3998 224354	9200 319566	25129 408952	73088	138960	26.0 780	52.0 1040	104 1300	260	520
p-Dimethylamino azobenzene	CRY	Qua	10300 674896	26779 971134	78636 1255576	210240	417758	50.0 1500	100 2000	200 2500	500	1000
Chlorobenzilate	CRY	Ave	27357 1299853	65153 1853520	166408 2337385	416646	838829	50.0 1500	100 2000	200 2500	500	1000
Famphur	CRY	Ave	10070 +++++	27900 +++++	72215 +++++	150167	167285	50.0 +++++	100 +++++	200 +++++	500	1000
3,3'-Dimethylbenzidine	CRY	Qua	+++++ 1601107	39200 2420788	161602 3243122	496512	991155	+++++ 1500	100 2000	200 2500	500	1000
2-Acetylaminofluorene	CRY	Lin1	14251 1395820	38683 2041117	121910 2665513	413999	819421	50.0 1500	100 2000	200 2500	500	1000
4,4'-Methylene bis(2-chloroaniline)	CRY	Lin1	7368 578291	19962 832758	63489 1066537	181784	360932	50.0 1500	100 2000	200 2500	500	1000
6-Methylchrysene	CRY	Ave	112395 4672025	253260 6499407	584709 8175380	1510128	3015338	100 3000	200 4000	400 5000	1000	2000
7,12-Dimethylbenz(a)anthracene	PRY	Ave	28018 1297752	60581 1834445	153490 2352064	423879	796065	50.0 1500	100 2000	200 2500	500	1000
3-Methylcholanthrene	PRY	Ave	69043 3279979	151454 4678244	387148 5965536	1032136	2076919	100 3000	200 4000	400 5000	1000	2000
Dibenz[a,h]acridine	PRY	Lin1	42242 2112820	96402 3024109	244926 3870010	666529	1306165	50.0 1500	100 2000	200 2500	500	1000

Curve Type Legend

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Qua = Quadratic ISTD

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

Lab Name: Eurofins Cleveland Job No.: 240-189273-1 Analy Batch No.: 581979

SDG No.:

Instrument ID: A4AG2 GC Column: RXI-5SILMS/ ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/27/2023 09:28 Calibration End Date: 07/27/2023 12:11 Calibration ID: 71269

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD2 240-581979/6	6.D
Level 2	STD3 240-581979/5	5.D
Level 3	STD4 240-581979/4	CCV L3LVI.D
Level 4	STD5 240-581979/3	CCV L2LVI.D
Level 5	STD6 240-581979/7	7.D
Level 6	STD7 240-581979/8	8.D
Level 7	STD8 240-581979/9	9.D
Level 8	STD9 240-581979/10	10.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
2-Picoline	-5.6 -4.9	-7.8 3.6	-3.0	5.3	6.2	6.1	50 30	30 30	30	30	30	30
N-Nitrosomethylethylamine	3.1 -3.7	-5.4 -5.1	-3.8	1.0	12.8	1.1	50 30	30 30	30	30	30	30
Methyl methanesulfonate	12.5 -7.4	5.6 -11.9	-0.8	-2.9	3.4	1.5	50 30	30 30	30	30	30	30
N-Nitrosodiethylamine	3.0 -4.0	-7.8 -5.8	-4.3	1.6	11.6	5.5	50 30	30 30	30	30	30	30
Ethyl methanesulfonate	12.9 -10.2	3.5 -9.9	0.5	-6.8	7.8	2.0	50 30	30 30	30	30	30	30
Pentachloroethane	-10.1 -2.4	-3.7 4.7	-2.4	6.2	6.2	1.5	50 30	30 30	30	30	30	30
N-Nitrosopyrrolidine	-6.9 5.3	-14.9 3.6	-7.7	-5.0	16.1	9.6	50 30	30 30	30	30	30	30
N-Nitrosomorpholine	9.1 -2.9	-11.0 -2.4	-5.8	-8.2	17.1	4.1	50 30	30 30	30	30	30	30
o-Toluidine	0.2 1.9	-4.8 -0.9	2.7	-11.9	4.9	8.0	50 30	30 30	30	30	30	30
N-Nitrosopiperidine	-14.3 6.8	-10.6 0.2	-7.6	6.7	12.6	6.2	50 30	30 30	30	30	30	30
o,o',o''-Triethylphosphorothioate	0.3 1.8	-5.3 -5.6	2.7	2.9	4.8	-1.5	50 30	30 30	30	30	30	30
alpha,alpha-Dimethyl phenethylamine	15.2 -1.0	-15.1 +++++	-1.1	0.9	-1.7	2.8	50 30	30	30	30	30	30
Hexachloropropene	-7.1 4.9	-10.3 3.8	-5.6	6.3	4.9	3.0	50 30	30 30	30	30	30	30
Quinoline	3.5 -1.8	-16.4 -6.6	-8.5	16.6	10.0	3.2	50 30	30 30	30	30	30	30

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

Lab Name: Eurofins Cleveland Job No.: 240-189273-1 Analy Batch No.: 581979

SDG No.:

Instrument ID: A4AG2 GC Column: RXI-5SILMS/ ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/27/2023 09:28 Calibration End Date: 07/27/2023 12:11 Calibration ID: 71269

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
N-Nitrosodi-n-butylamine	-14.2 -3.0	-5.8 -6.2	4.5	17.3	8.4	-0.8	50 30	30 30	30	30	30	30
p-Phenylene diamine	+++++ 2.3	8.1 -2.4	-9.8	-0.1	0.6	1.3	 30	50 30	30	30	30	30
Safrole, Total	8.7 -2.7	-13.8 -3.5	-7.8	10.1	3.9	5.2	50 30	30 30	30	30	30	30
Isosafrole Peak 1	-7.7 -0.6	1.8 -0.3	1.5	5.2	1.8	-1.7	50 30	30 30	30	30	30	30
Isosafrole Peak 2	-30.5 7.6	-12.5 7.8	1.7	7.5	9.4	9.0	50 30	30 30	30	30	30	30
1,4-Naphthoquinone	26.8 -0.9	-13.2 1.2	-11.0	-4.8	-1.0	2.9	50 30	30 30	30	30	30	30
1,4-Dinitrobenzene	21.6 -0.2	-7.8 3.9	-7.5	-4.0	-5.3	-0.6	50 30	30 30	30	30	30	30
Pentachlorobenzene	42.7 0.0	-17.5 0.1	-9.4	3.0	1.3	-1.2	50 30	30 30	30	30	30	30
1-Naphthylamine	4.5 -3.6	-2.7 -7.9	-1.9	4.8	6.1	0.6	50 30	30 30	30	30	30	30
2-Naphthylamine	10.1 -7.7	0.9 -11.8	2.6	5.9	3.1	-3.1	50 30	30 30	30	30	30	30
Thionazin	6.6 -4.2	1.8 -4.2	-4.7	1.8	3.3	-0.3	50 30	30 30	30	30	30	30
N-Nitro-o-toluidine	-19.7 11.8	-19.4 12.9	-8.3	5.3	9.5	8.0	50 30	30 30	30	30	30	30
Sulfotepp	-5.7 5.0	-8.3 6.8	-7.7	-0.5	6.2	4.1	50 30	30 30	30	30	30	30
1,3,5-Trinitrobenzene	+++++ 0.0	25.7 -0.2	-1.4	-5.7	-1.7	1.9	 30	50 30	30	30	30	30
Diallate Peak 1	3.3 -4.8	-2.7 -5.7	0.5	3.4	4.9	1.0	50 30	30 30	30	30	30	30
Phenacetin	11.6 -0.3	-12.2 -3.1	-7.0	3.5	5.1	2.3	50 30	30 30	30	30	30	30
Phorate	-5.3 0.5	-4.9 -3.0	-1.3	0.7	7.1	6.2	50 30	30 30	30	30	30	30
Diallate Peak 2	0.8 0.9	-5.8 2.3	-3.6	-0.7	3.5	2.6	50 30	30 30	30	30	30	30
Dimethoate	3.5 -0.9	-11.4 -5.4	-4.0	6.2	7.8	4.2	50 30	30 30	30	30	30	30

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

Lab Name: Eurofins Cleveland Job No.: 240-189273-1 Analy Batch No.: 581979

SDG No.:

Instrument ID: A4AG2 GC Column: RXI-5SILMS/ ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/27/2023 09:28 Calibration End Date: 07/27/2023 12:11 Calibration ID: 71269

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
4-Aminobiphenyl	-20.5 12.7	-18.7 11.2	-7.3	0.8	9.4	12.4	50 30	30 30	30	30	30	30
Pronamide	-17.3 9.6	-16.4 9.2	-6.6	0.8	9.3	11.3	50 30	30 30	30	30	30	30
Pentachloronitrobenzene	-22.5 10.3	-18.2 13.1	-8.5	4.1	12.2	9.4	50 30	30 30	30	30	30	30
Disulfoton	-5.0 0.8	-9.7 -1.1	-1.4	4.0	7.2	5.3	50 30	30 30	30	30	30	30
Dinoseb	+++++ 0.9	10.0 -0.4	-1.3	0.5	-2.2	0.2	 30	50 30	30	30	30	30
Methyl parathion	18.5 0.2	-11.2 -3.1	-10.8	-1.7	3.1	5.0	50 30	30 30	30	30	30	30
Ethyl Parathion	22.9 0.9	-8.9 0.2	-13.3	-2.1	-1.3	1.5	50 30	30 30	30	30	30	30
4-Nitroquinoline-1-oxide	+++++ 1.6	30.1 -0.7	0.9	-4.2	-3.4	0.6	 30	50 30	30	30	30	30
Methapyrilene	-11.3 -2.0	-4.2 -7.4	2.6	11.3	8.3	2.6	50 30	30 30	30	30	30	30
Isodrin	12.4 -4.7	1.4 -5.9	-0.7	0.9	-0.7	-2.7	50 30	30 30	30	30	30	30
Aramite Peak 1	17.0 0.8	-8.0 3.9	-3.6	-1.4	-6.4	-2.4	50 30	30 30	30	30	30	30
Aramite Peak 2	16.3 -0.6	-8.5 2.9	-6.4	0.7	-3.1	-1.4	50 30	30 30	30	30	30	30
p-Dimethylamino azobenzene	-5.3 -1.0	-12.4 0.4	1.4	2.7	0.9	0.0	50 30	30 30	30	30	30	30
Chlorobenzilate	-15.0 6.0	-12.0 8.5	0.1	1.7	6.1	4.6	50 30	30 30	30	30	30	30
Famphur	-8.1 +++++	10.7 +++++	27.6	7.7	-37.8 *	+++++	50	30	30	30	30	
3,3'-Dimethylbenzidine	+++++ -1.1	-32.7 0.6	-2.5	8.1	2.5	-1.5	 30	50 30	30	30	30	30
2-Acetylaminofluorene	32.2 0.6	-8.6 6.0	-14.6	-5.5	-8.0	-2.3	50 30	30 30	30	30	30	30
4,4'-Methylene bis(2-chloroaniline)	17.1 -0.3	-9.6 3.2	-4.0	-1.8	-2.6	-2.0	50 30	30 30	30	30	30	30
6-Methylchrysene	-4.3 1.8	-6.3 4.0	-3.7	1.0	4.5	3.0	50 30	30 30	30	30	30	30

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

Lab Name: Eurofins Cleveland Job No.: 240-189273-1 Analy Batch No.: 581979

SDG No.:

Instrument ID: A4AG2 GC Column: RXI-5SILMS/ ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/27/2023 09:28 Calibration End Date: 07/27/2023 12:11 Calibration ID: 71269

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
7,12-Dimethylbenz(a)anthracene	-20.7 11.1	-17.1 14.8	-8.3	4.4	6.2	9.7	50 30	30 30	30	30	30	30
3-Methylcholanthrene	-22.5 12.3	-17.8 15.5	-8.3	0.8	9.9	10.0	50 30	30 30	30	30	30	30
Dibenz[a,h]acridine	16.9 0.4	-2.5 3.4	-7.7	-5.9	-3.0	-1.6	50 30	30 30	30	30	30	30

Eurofins Cleveland
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\CCV L2LVI.D
Lims ID: std5 l2lvi
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 27-Jul-2023 09:28:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 240-0131856-003
Misc. Info.: STD5 L2LVI
Operator ID: Instrument ID: A4AG2
Sublist: chrom-LVI AG2 8270*sub21

Method: \\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\LVI AG2 8270.m
Limit Group: MSS 8270D ICAL
Last Update: 27-Jul-2023 16:30:28 Calib Date: 27-Jul-2023 12:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\10.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: CTX1652

First Level Reviewer: KDZ4 Date: 27-Jul-2023 10:51:20

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.745	6.745	0.000	96	237459	400.0	400.0	
* 2 Naphthalene-d8	136	7.816	7.816	0.000	99	1037782	400.0	400.0	
* 3 Acenaphthene-d10	164	9.316	9.316	0.000	93	609035	400.0	400.0	
* 4 Phenanthrene-d10	188	10.604	10.604	0.000	97	972381	400.0	400.0	
* 5 Chrysene-d12	240	13.545	13.545	0.000	97	604430	400.0	400.0	
* 6 Perylene-d12	264	15.927	15.927	0.000	94	603698	400.0	400.0	
31 2-Picoline	93	5.228	5.228	0.000	95	349209	500.0	526.6	
32 N-Nitrosomethylethylamine	88	5.293	5.293	0.000	93	223076	500.0	505.2	
34 Methyl methanesulfonate	80	5.528	5.528	0.000	85	242192	500.0	485.5	
36 N-Nitrosodiethylamine	102	5.863	5.863	0.000	95	238182	500.0	508.0	
37 Ethyl methanesulfonate	79	6.081	6.081	0.000	98	330905	500.0	466.2	
46 Pentachloroethane	167	6.528	6.528	0.000	96	125246	500.0	531.2	
56 N-Nitrosopyrrolidine	100	7.028	7.028	0.000	95	224733	500.0	475.2	
59 N-Nitrosomorpholine	56	7.051	7.051	0.000	92	237486	500.0	459.2	
60 2-Toluidine	106	7.087	7.087	0.000	96	643363	500.0	440.3	
63 N-Nitrosopiperidine	114	7.328	7.328	0.000	87	235462	500.0	533.5	
68 o,o',o''-Triethylphosphorothioat	198	7.545	7.545	0.000	86	183338	500.0	514.5	
71 alpha,alpha-Dimethyl phenethylam	58	7.663	7.663	0.000	97	775482	500.0	504.6	
77 Hexachloropropene	213	7.916	7.916	0.000	93	191394	500.0	531.3	
82 N-Nitrosodi-n-butylamine	84	8.116	8.116	0.000	95	326202	500.0	586.3	
81 Quinoline	129	8.116	8.116	0.000	99	1020798	500.0	582.9	
84 p-Phenylene diamine	108	8.145	8.145	0.000	99	263989	500.0	499.5	
92 Safrole, Total	162	8.316	8.316	0.000	93	363322	500.0	550.3	a
95 Isosafrole Peak 1	162	8.563	8.563	0.000	93	66021	80.0	84.2	a
91 Isosafrole Peak 2	162	8.751	8.751	0.000	94	380271	420.0	451.4	a
102 1,4-Naphthoquinone	158	8.969	8.969	0.000	91	275351	500.0	476.1	
105 1,4-Dinitrobenzene	168	8.992	8.992	0.000	91	128389	500.0	479.8	
114 Pentachlorobenzene	250	9.463	9.463	0.000	97	269933	500.0	515.1	
116 2,3,5,6-Tetrachlorophenol	232	9.551	9.551	0.000	85	139471	NC	NC	
117 1-Naphthylamine	143	9.551	9.551	0.000	98	923100	500.0	524.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
119 2-Naphthylamine	143	9.616	9.616	0.000	97	987451	500.0	529.7	a
121 Thionazin	97	9.692	9.692	0.000	82	226642	500.0	509.0	
123 N-Nitro-o-toluidine	152	9.769	9.769	0.000	96	273203	500.0	526.7	
132 Sulfotepp	202	9.939	9.939	0.000	78	98726	500.0	497.5	
133 1,3,5-Trinitrobenzene	213	10.028	10.028	0.000	83	53758	500.0	471.4	
135 Phenacetin	108	10.075	10.075	0.000	92	483340	500.0	517.6	
134 Diallate Peak 1	86	10.081	10.081	0.000	93	366627	370.0	382.7	a
136 Phorate	121	10.092	10.092	0.000	97	220963	500.0	503.6	
137 Diallate Peak 2	86	10.163	10.163	0.000	95	119846	130.0	129.1	
139 Dimethoate	87	10.239	10.239	0.000	98	405667	500.0	531.2	
142 4-Aminobiphenyl	169	10.398	10.398	0.000	88	919515	500.0	504.1	
144 Pronamide	173	10.416	10.416	0.000	89	380934	500.0	504.0	
145 Pentachloronitrobenzene	237	10.439	10.439	0.000	83	79565	500.0	520.7	
146 Disulfoton	88	10.539	10.539	0.000	95	584959	500.0	519.9	
147 Dinoseb	211	10.545	10.545	0.000	93	122912	500.0	502.4	
152 Methyl parathion	109	10.869	10.869	0.000	90	297892	500.0	491.5	
155 Ethyl Parathion	97	11.204	11.204	0.000	84	183404	500.0	489.4	
156 4-Nitroquinoline-1-oxide	190	11.292	11.292	0.000	82	60679	500.0	478.9	
157 Methapyrilene	58	11.322	11.322	0.000	97	1565008	1000.0	1113.1	
158 Isodrin	66	11.592	11.592	0.000	89	141685	500.0	504.5	
162 Aramite Peak 1	185	12.010	12.010	0.000	0	50526	240.0	236.6	a
163 Aramite Peak 2	185	12.092	12.092	0.000	0	73088	260.0	261.9	a
164 p-Dimethylamino azobenzene	225	12.251	12.251	0.000	89	210240	500.0	513.5	
165 Chlorobenzilate	139	12.280	12.280	0.000	84	416646	500.0	508.4	
168 Famphur	218	12.586	12.586	0.000	88	150167	500.0	538.3	
170 3,3'-Dimethylbenzidine	212	12.663	12.663	0.000	99	496512	500.0	540.4	
172 2-Acetylaminofluorene	181	13.010	13.010	0.000	95	413999	500.0	472.6	
175 4,4'-Methylene bis(2-chloroanil	231	13.421	13.421	0.000	95	181784	500.0	491.1	
180 6-Methylchrysene	242	14.286	14.286	0.000	98	1510128	1000.0	1009.7	
182 7,12-Dimethylbenz(a)anthracene	256	15.239	15.239	0.000	93	423879	500.0	521.8	
186 3-Methylcholanthrene	268	16.445	16.445	0.000	96	1032136	1000.0	1008.1	
188 Dibenz[a,h]acridine	279	17.533	17.533	0.000	93	666529	500.0	470.4	
S 194 Isosafrole	162				0		500.0	535.6	
S 195 Diallate	86				0		500.0	511.7	
S 196 Aramite, Total	185				0		500.0	498.6	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

a - User Assigned ID

Reagents:

SMLIST2 L5 W_00030 Amount Added: 0.10 Units: mL

Report Date: 27-Jul-2023 16:30:28 Chrom Revision: 2.3 19-Jul-2023 18:28:48

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\CCV L2LVI.D

Injection Date: 27-Jul-2023 09:28:30 Instrument ID: A4AG2 Operator ID:

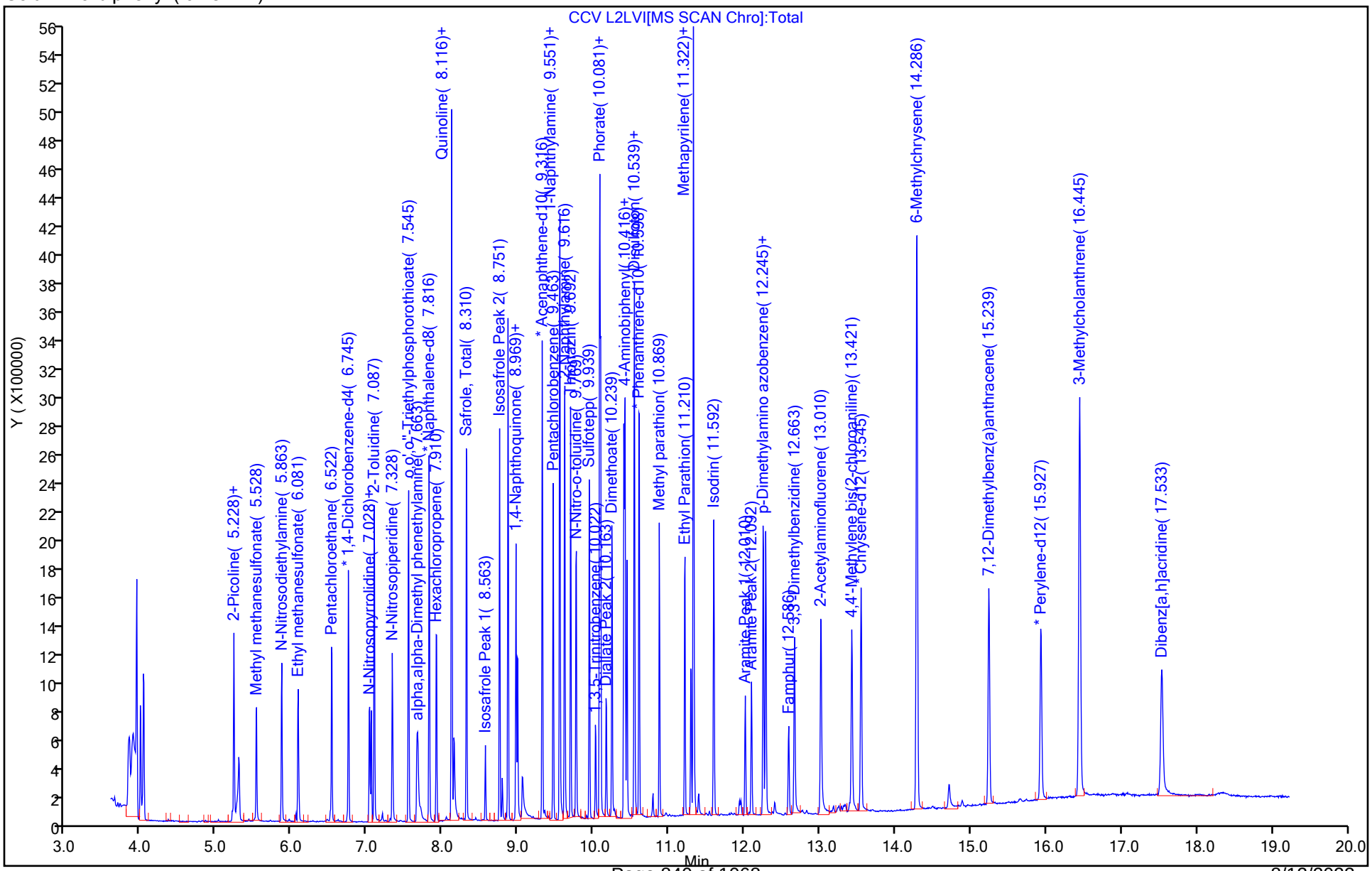
Lims ID: std5 l2lvi Worklist Smp#: 3

Client ID:

Injection Vol: 5.0 ul Dil. Factor: 1.0000 ALS Bottle#: 3

Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL

Column: 5% phenyl (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Cleveland

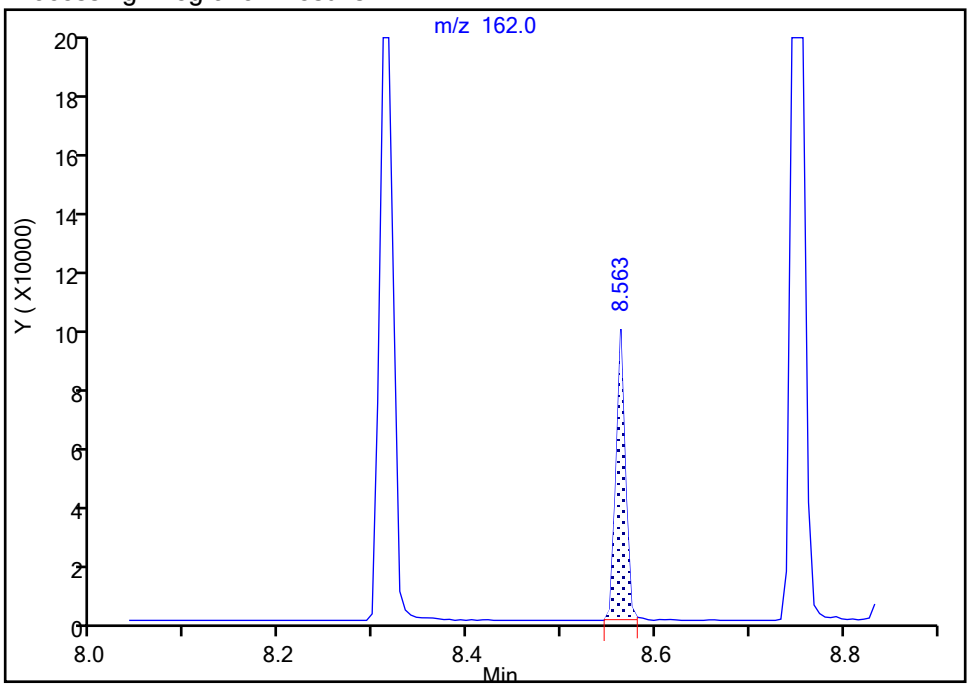
Data File: \\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\CCV L2LVI.D
Injection Date: 27-Jul-2023 09:28:30 Instrument ID: A4AG2
Lims ID: std5 l2lvi
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL
Column: 5% phenyl (0.18 mm) Detector MS SCAN

92 Safrole, Total, CAS: 94-59-7

Signal: 1

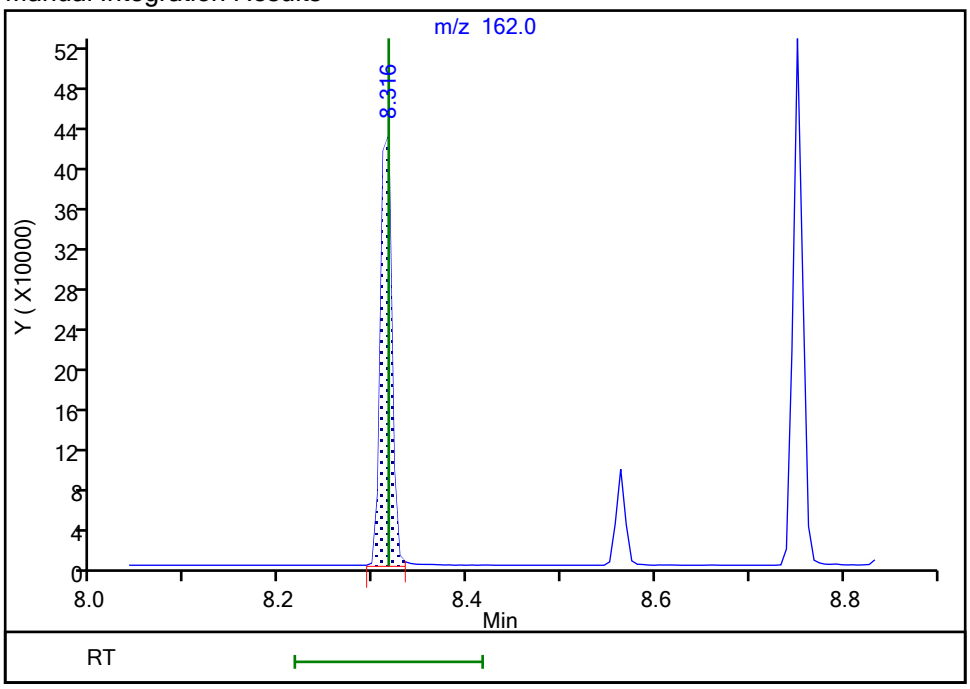
Processing Integration Results

RT: 8.56
Area: 66021
Amount: 500.0000
Amount Units: ng/ml



Manual Integration Results

RT: 8.32
Area: 363322
Amount: 550.2526
Amount Units: ng/ml



Reviewer: KDZ4, 27-Jul-2023 10:49:17 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Cleveland

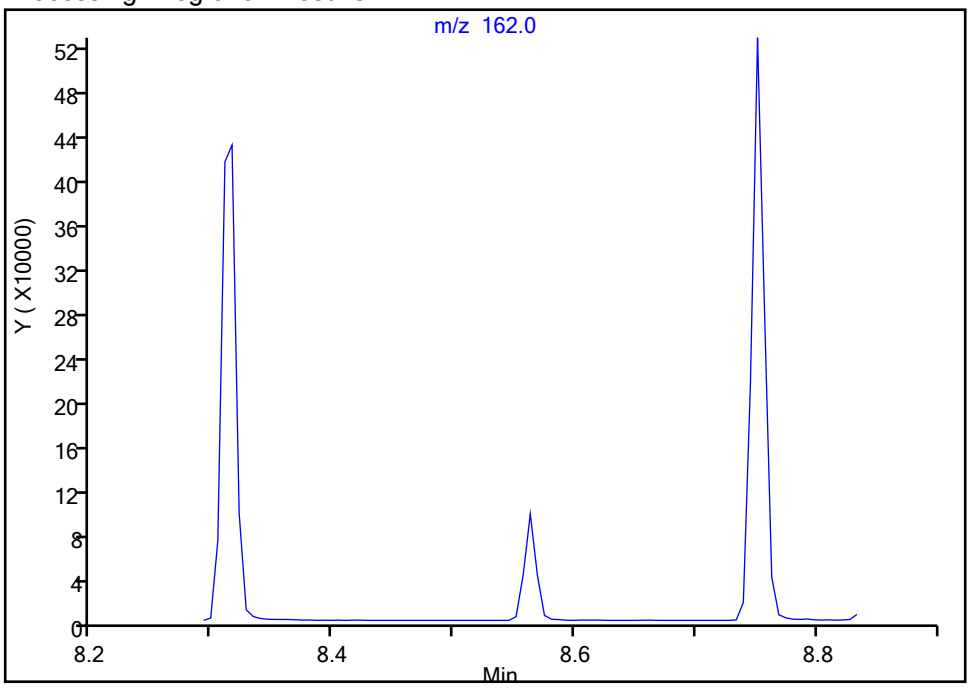
Data File: \\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\CCV L2LVI.D
Injection Date: 27-Jul-2023 09:28:30 Instrument ID: A4AG2
Lims ID: std5 l2lvi
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL
Column: 5% phenyl (0.18 mm) Detector MS SCAN

95 Isosafrole Peak 1, CAS: 120-58-1

Signal: 1

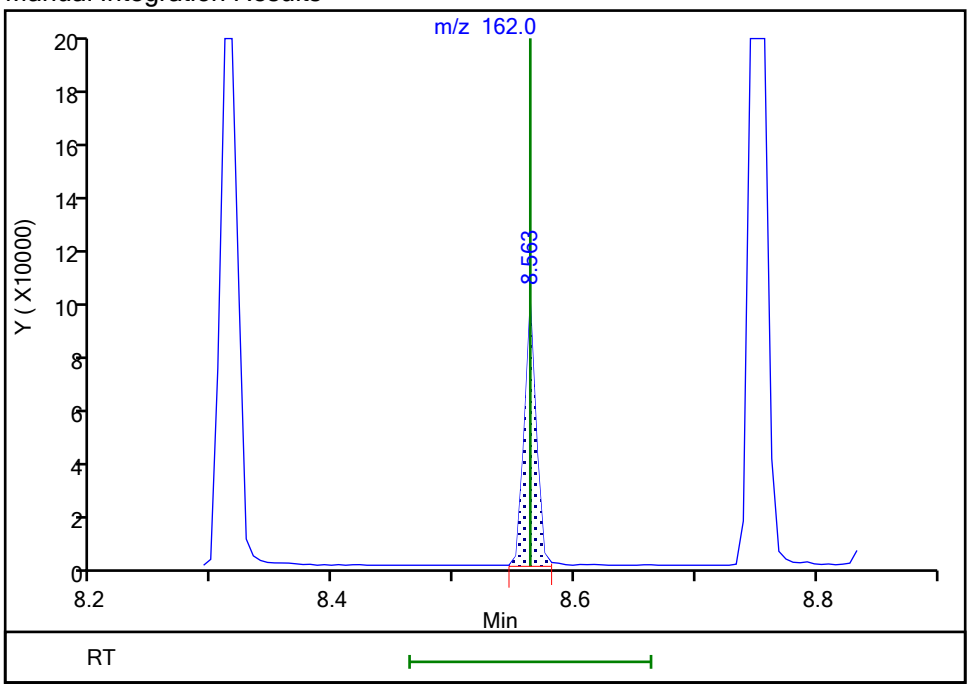
Not Detected
Expected RT: 8.56

Processing Integration Results



Manual Integration Results

RT: 8.56
Area: 66021
Amount: 84.165397
Amount Units: ng/ml



Reviewer: KDZ4, 27-Jul-2023 10:49:23 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Cleveland

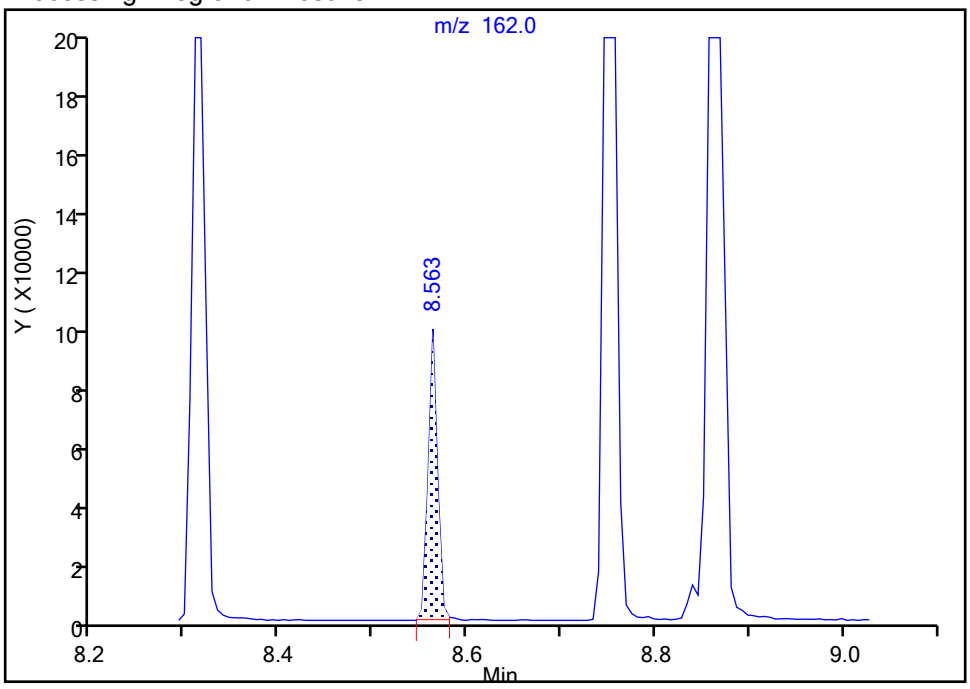
Data File:	\\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\CCV L2LVI.D				
Injection Date:	27-Jul-2023 09:28:30	Instrument ID:	A4AG2		
Lims ID:	std5 l2lvi				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

91 Isosafrole Peak 2, CAS: 120-58-1

Signal: 1

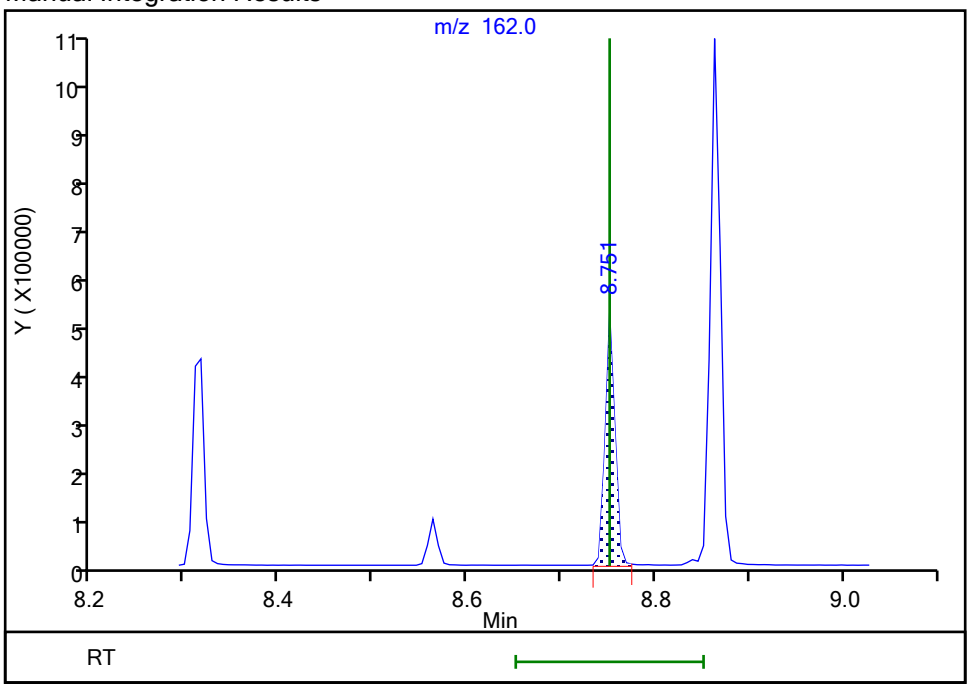
Processing Integration Results

RT: 8.56
Area: 66021
Amount: 500.8924
Amount Units: ng/ml



Manual Integration Results

RT: 8.75
Area: 380271
Amount: 451.3882
Amount Units: ng/ml



Reviewer: KDZ4, 27-Jul-2023 10:46:37 -04:00:00 (UTC)

Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Cleveland

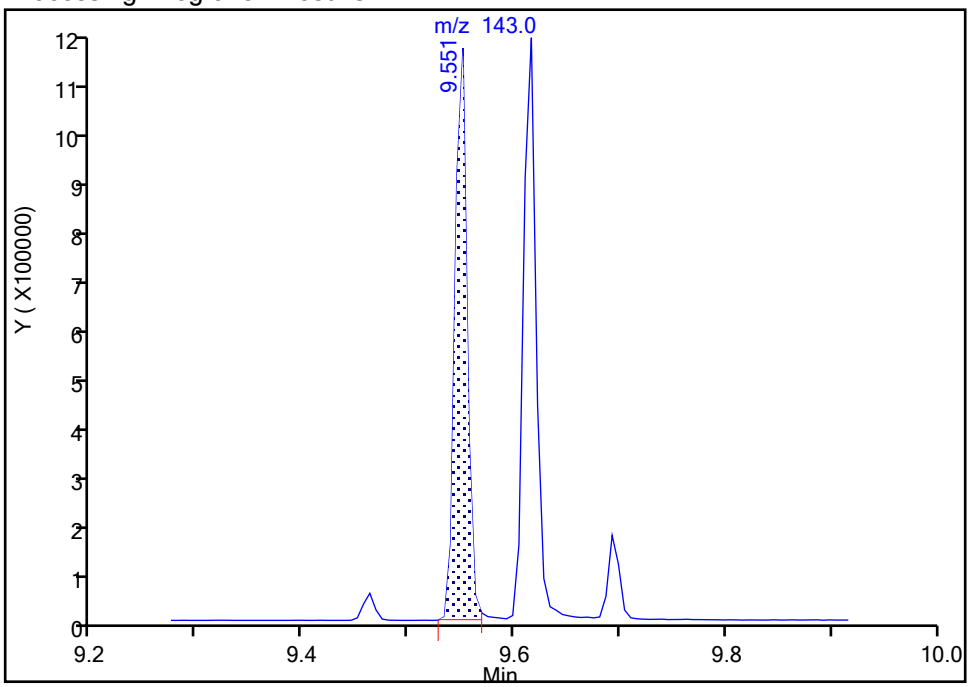
Data File: \\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\CCV L2LVI.D
Injection Date: 27-Jul-2023 09:28:30 Instrument ID: A4AG2
Lims ID: std5 l2lvi
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL
Column: 5% phenyl (0.18 mm) Detector MS SCAN

119 2-Naphthylamine, CAS: 91-59-8

Signal: 1

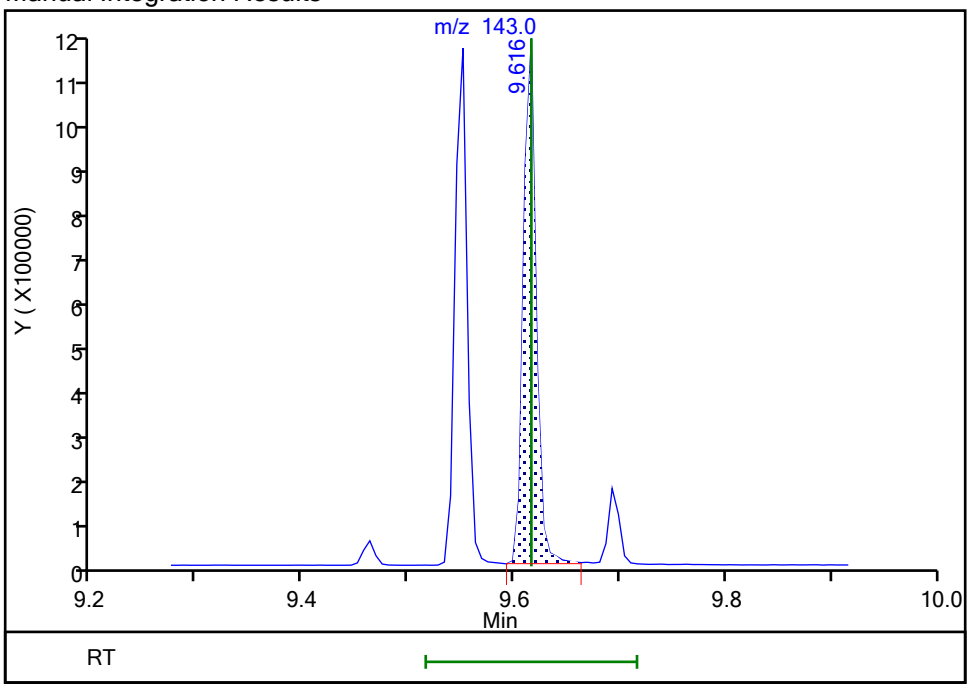
Processing Integration Results

RT: 9.55
Area: 923100
Amount: 523.7001
Amount Units: ng/ml



Manual Integration Results

RT: 9.62
Area: 987451
Amount: 529.7456
Amount Units: ng/ml



Reviewer: KDZ4, 27-Jul-2023 10:46:47 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Cleveland

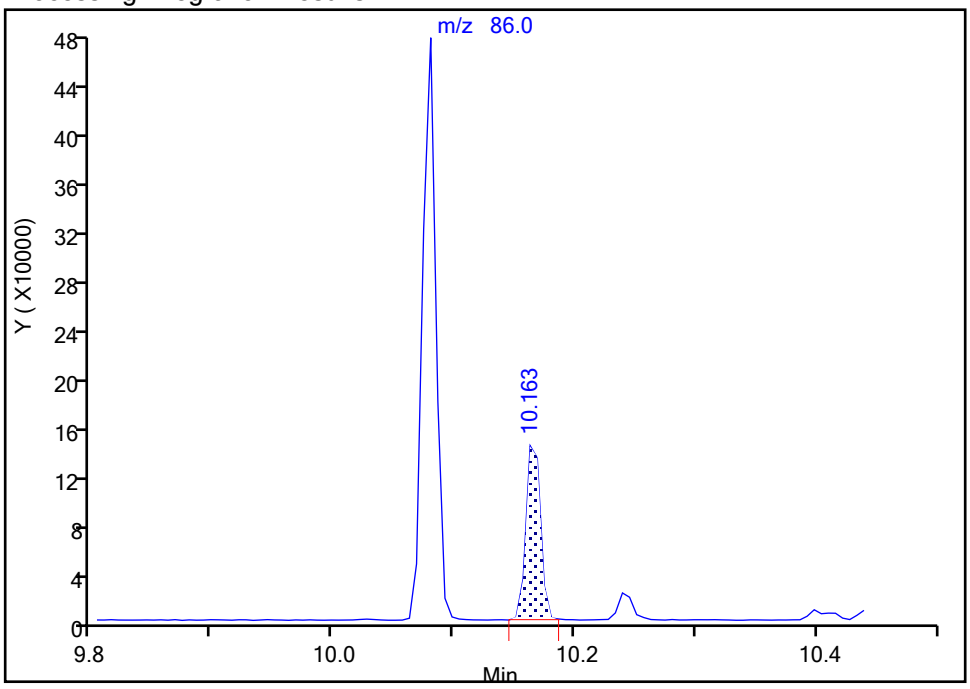
Data File:	\\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\CCV L2LVI.D				
Injection Date:	27-Jul-2023 09:28:30	Instrument ID:	A4AG2		
Lims ID:	std5 l2lvi				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

134 Diallate Peak 1, CAS: 2303-16-4

Signal: 1

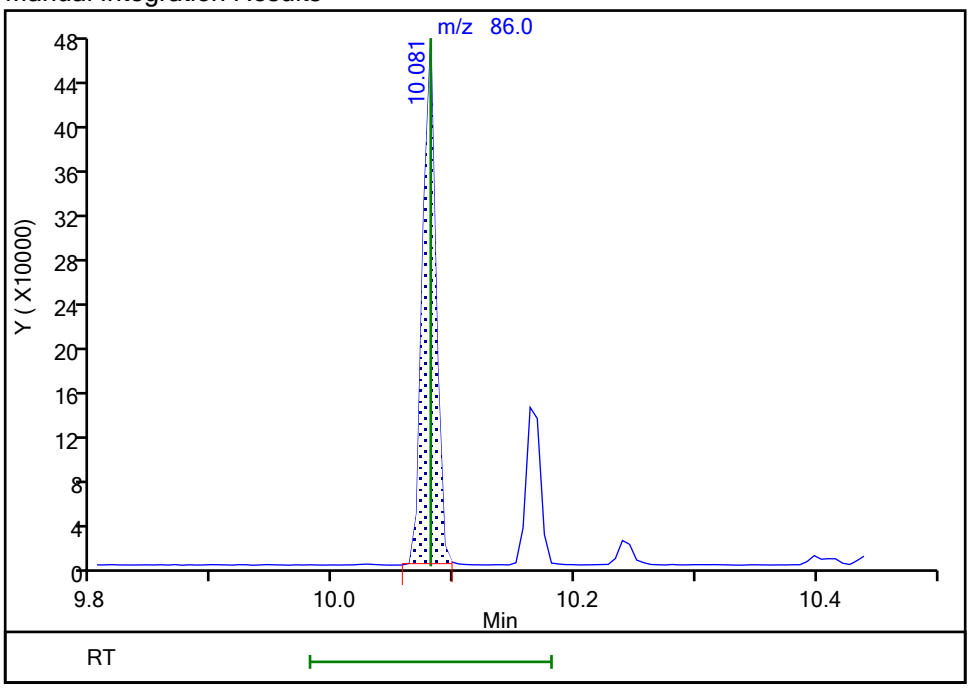
Processing Integration Results

RT: 10.16
Area: 119846
Amount: 370.0000
Amount Units: ng/ml



Manual Integration Results

RT: 10.08
Area: 366627
Amount: 382.6513
Amount Units: ng/ml



Reviewer: KDZ4, 27-Jul-2023 10:49:53 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Cleveland

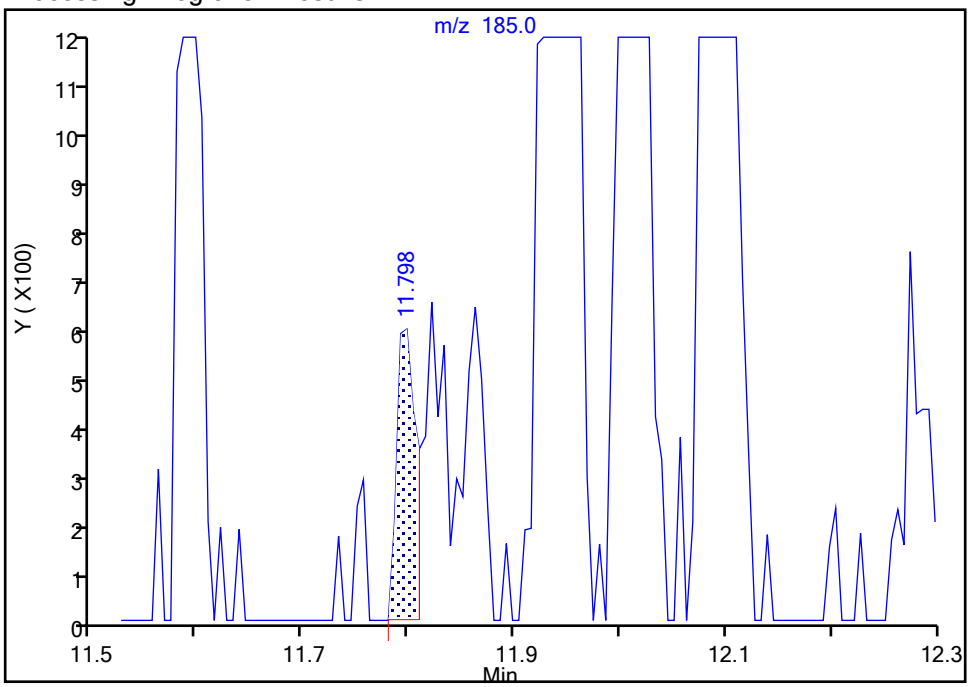
Data File:	\\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\CCV L2LVI.D				
Injection Date:	27-Jul-2023 09:28:30	Instrument ID:	A4AG2		
Lims ID:	std5 l2lvi				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

162 Aramite Peak 1, CAS: STL00690

Signal: 1

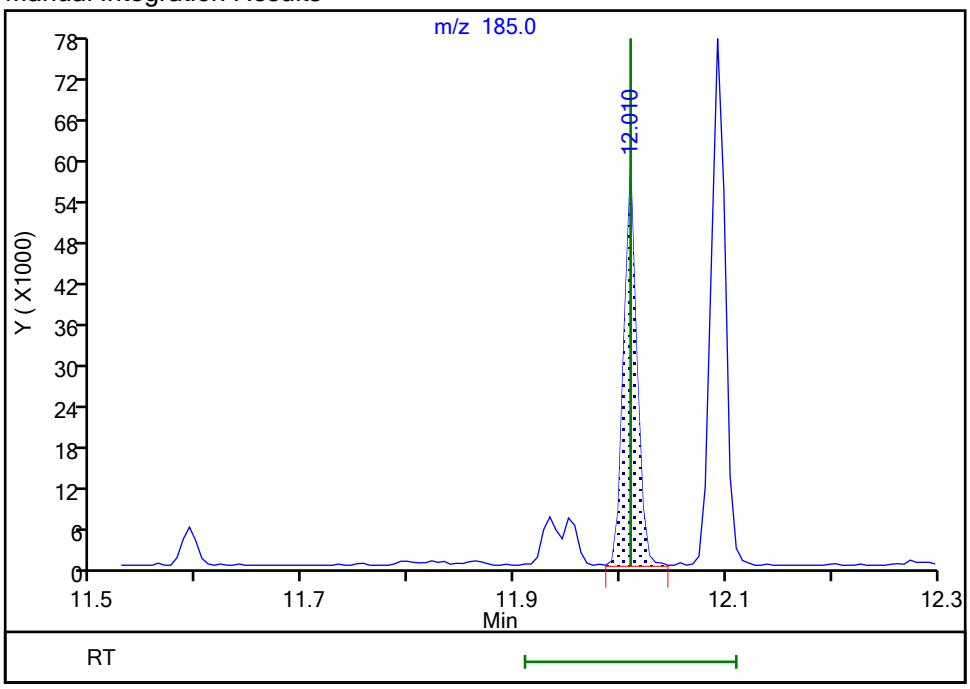
Processing Integration Results

RT: 11.80
Area: 763
Amount: 286.5544
Amount Units: ng/ml



Manual Integration Results

RT: 12.01
Area: 50526
Amount: 236.6157
Amount Units: ng/ml



Reviewer: KDZ4, 27-Jul-2023 10:48:09 -04:00:00 (UTC)

Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Cleveland

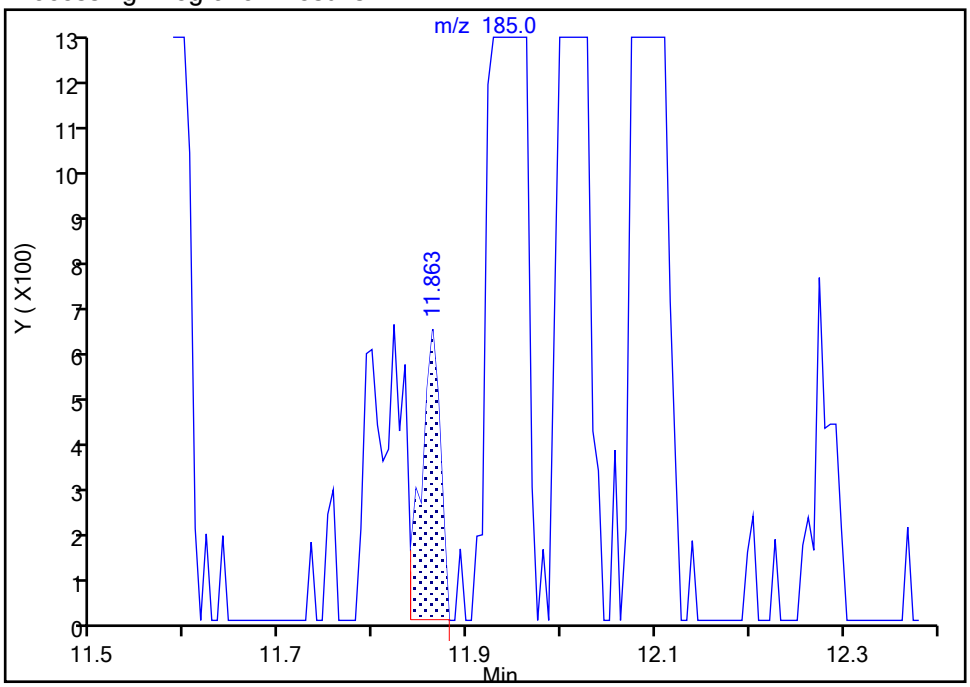
Data File: \\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\CCV L2LVI.D
Injection Date: 27-Jul-2023 09:28:30 Instrument ID: A4AG2
Lims ID: std5 l2lvi
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL
Column: 5% phenyl (0.18 mm) Detector MS SCAN

163 Aramite Peak 2, CAS: STL00691

Signal: 1

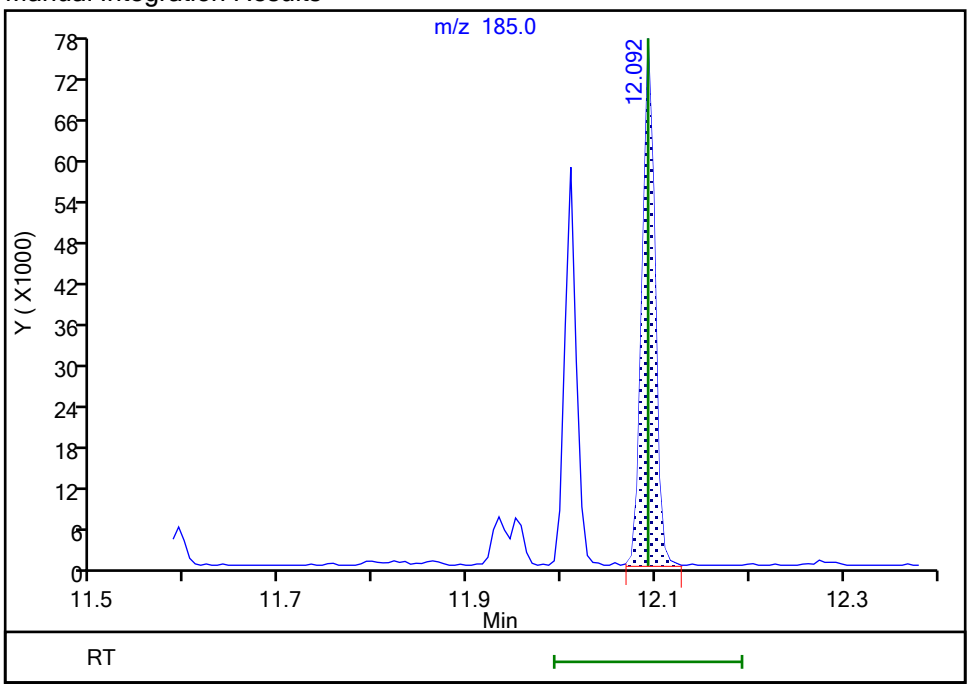
Processing Integration Results

RT: 11.86
Area: 907
Amount: 68.878157
Amount Units: ng/ml



Manual Integration Results

RT: 12.09
Area: 73088
Amount: 261.9437
Amount Units: ng/ml



Reviewer: KDZ4, 27-Jul-2023 10:48:16 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Eurofins Cleveland
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\CCV L3LVI.D
Lims ID: std4 l2lvi
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 27-Jul-2023 09:51:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 240-0131856-004
Misc. Info.: STD4 L2LVI
Operator ID: Instrument ID: A4AG2
Sublist: chrom-LVI AG2 8270*sub21

Method: \\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\LVI AG2 8270.m
Limit Group: MSS 8270D ICAL
Last Update: 27-Jul-2023 16:25:41 Calib Date: 27-Jul-2023 12:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\10.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: CTX1652

First Level Reviewer: KDZ4 Date: 27-Jul-2023 10:53:03

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.746	6.740	0.006	96	231313	400.0	400.0	
* 2 Naphthalene-d8	136	7.816	7.810	0.006	99	1166724	400.0	400.0	
* 3 Acenaphthene-d10	164	9.316	9.310	0.006	94	604147	400.0	400.0	
* 4 Phenanthrene-d10	188	10.598	10.598	0.000	97	991126	400.0	400.0	
* 5 Chrysene-d12	240	13.539	13.539	0.000	97	613135	400.0	400.0	
* 6 Perylene-d12	264	15.927	15.921	0.006	94	622103	400.0	400.0	
31 2-Picoline	93	5.234	5.228	0.006	95	125375	200.0	194.1	
32 N-Nitrosomethylethylamine	88	5.299	5.293	0.006	91	82754	200.0	192.4	
34 Methyl methanesulfonate	80	5.528	5.522	0.006	86	96381	200.0	198.3	
36 N-Nitrosodiethylamine	102	5.863	5.857	0.006	97	87453	200.0	191.5	
37 Ethyl methanesulfonate	79	6.081	6.075	0.006	99	139022	200.0	201.1	
46 Pentachloroethane	167	6.528	6.522	0.006	95	44813	200.0	195.1	
56 N-Nitrosopyrrolidine	100	7.028	7.022	0.006	98	85029	200.0	184.6	
59 N-Nitrosomorpholine	56	7.051	7.046	0.005	88	94915	200.0	188.4	
60 2-Toluidine	106	7.093	7.087	0.006	96	292266	200.0	205.4	
63 N-Nitrosopiperidine	114	7.334	7.322	0.012	88	91666	200.0	184.7	
68 o,o',o''-Triethylphosphorothioat	198	7.551	7.534	0.017	87	82269	200.0	205.4	
71 alpha,alpha-Dimethyl phenethylam	58	7.675	7.645	0.030	97	327071	200.0	197.7	
77 Hexachloropropene	213	7.916	7.910	0.006	92	76481	200.0	188.8	
82 N-Nitrosodi-n-butylamine	84	8.122	8.110	0.012	95	130674	200.0	208.9	
81 Quinoline	129	8.122	8.110	0.012	98	351299	200.0	183.0	
84 p-Phenylene diamine	108	8.157	8.145	0.012	98	73110	200.0	180.3	
92 Safrole, Total	162	8.316	8.310	0.006	93	129272	200.0	184.3	
95 Isosafrole Peak 1	162	8.563	8.557	0.006	91	22260	32.0	32.5	
91 Isosafrole Peak 2	162	8.751	8.745	0.006	94	142848	168.0	170.9	
102 1,4-Naphthoquinone	158	8.969	8.963	0.006	90	92162	200.0	178.0	
105 1,4-Dinitrobenzene	168	8.993	8.987	0.005	90	44165	200.0	184.9	
114 Pentachlorobenzene	250	9.463	9.457	0.006	96	72087	200.0	181.1	
117 1-Naphthylamine	143	9.551	9.545	0.006	99	342674	200.0	196.1	
116 2,3,5,6-Tetrachlorophenol	232	9.551	9.545	0.006	53	43967	NC	NC	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
119 2-Naphthylamine	143	9.616	9.610	0.006	97	379332	200.0	205.1	
121 Thionazin	97	9.692	9.687	0.005	82	84154	200.0	190.5	
123 N-Nitro-o-toluidine	152	9.769	9.763	0.006	97	94397	200.0	183.5	
132 Sulfotepp	202	9.945	9.934	0.011	78	37334	200.0	184.6	
133 1,3,5-Trinitrobenzene	213	10.028	10.022	0.006	84	15555	200.0	197.1	
135 Phenacetin	108	10.081	10.075	0.006	91	166114	200.0	186.0	
134 Diallate Peak 1	86	10.081	10.075	0.006	93	145313	148.0	148.8	
136 Phorate	121	10.092	10.087	0.006	96	88239	200.0	197.3	
137 Diallate Peak 2	86	10.169	10.163	0.006	96	47450	52.0	50.1	
139 Dimethoate	87	10.239	10.239	0.000	97	141927	200.0	192.1	
142 4-Aminobiphenyl	169	10.398	10.398	0.000	88	344712	200.0	185.4	
144 Pronamide	173	10.410	10.410	0.000	91	143970	200.0	186.9	
145 Pentachloronitrobenzene	237	10.439	10.439	0.000	83	28515	200.0	183.1	
146 Disulfoton	88	10.539	10.534	0.005	95	226100	200.0	197.1	
147 Dinoseb	211	10.539	10.539	0.000	90	34653	200.0	197.4	
152 Methyl parathion	109	10.869	10.869	0.000	89	95305	200.0	178.3	
155 Ethyl Parathion	97	11.204	11.204	0.000	83	55285	200.0	173.4	
156 4-Nitroquinoline-1-oxide	190	11.286	11.286	0.000	70	16278	200.0	201.7	
157 Methapyrilene	58	11.322	11.322	0.000	97	588207	400.0	410.4	
158 Isodrin	66	11.586	11.586	0.000	89	56860	200.0	198.6	
162 Aramite Peak 1	185	12.004	12.004	0.000	0	18455	96.0	92.6	
163 Aramite Peak 2	185	12.092	12.086	0.006	0	25129	104.0	97.3	
164 p-Dimethylamino azobenzene	225	12.245	12.245	0.000	89	78636	200.0	202.9	
165 Chlorobenzilate	139	12.275	12.275	0.000	83	166408	200.0	200.2	
168 Famphur	218	12.581	12.580	0.000	89	72215	200.0	255.2	
170 3,3'-Dimethylbenzidine	212	12.657	12.657	0.000	99	161602	200.0	195.0	
172 2-Acetylaminofluorene	181	13.010	13.010	0.000	95	121910	200.0	170.9	
175 4,4'-Methylene bis(2-chloroanil	231	13.422	13.416	0.006	94	63489	200.0	192.0	
180 6-Methylchrysene	242	14.280	14.280	0.000	97	584709	400.0	385.4	
182 7,12-Dimethylbenz(a)anthracene	256	15.239	15.233	0.006	93	153490	200.0	183.4	
186 3-Methylcholanthrene	268	16.433	16.439	-0.006	96	387148	400.0	366.9	
188 Dibenz[a,h]acridine	279	17.527	17.521	0.006	93	244926	200.0	184.5	
S 194 Isosafrole	162				0		200.0	203.4	
S 195 Diallate	86				0		200.0	198.9	
S 196 Aramite, Total	185				0		200.0	189.9	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SMLIST2 L4 W_00030 Amount Added: 0.10 Units: mL

Report Date: 27-Jul-2023 16:25:41 Chrom Revision: 2.3 19-Jul-2023 18:28:48

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\CCV L3LVI.D

Injection Date: 27-Jul-2023 09:51:30 Instrument ID: A4AG2 Operator ID:

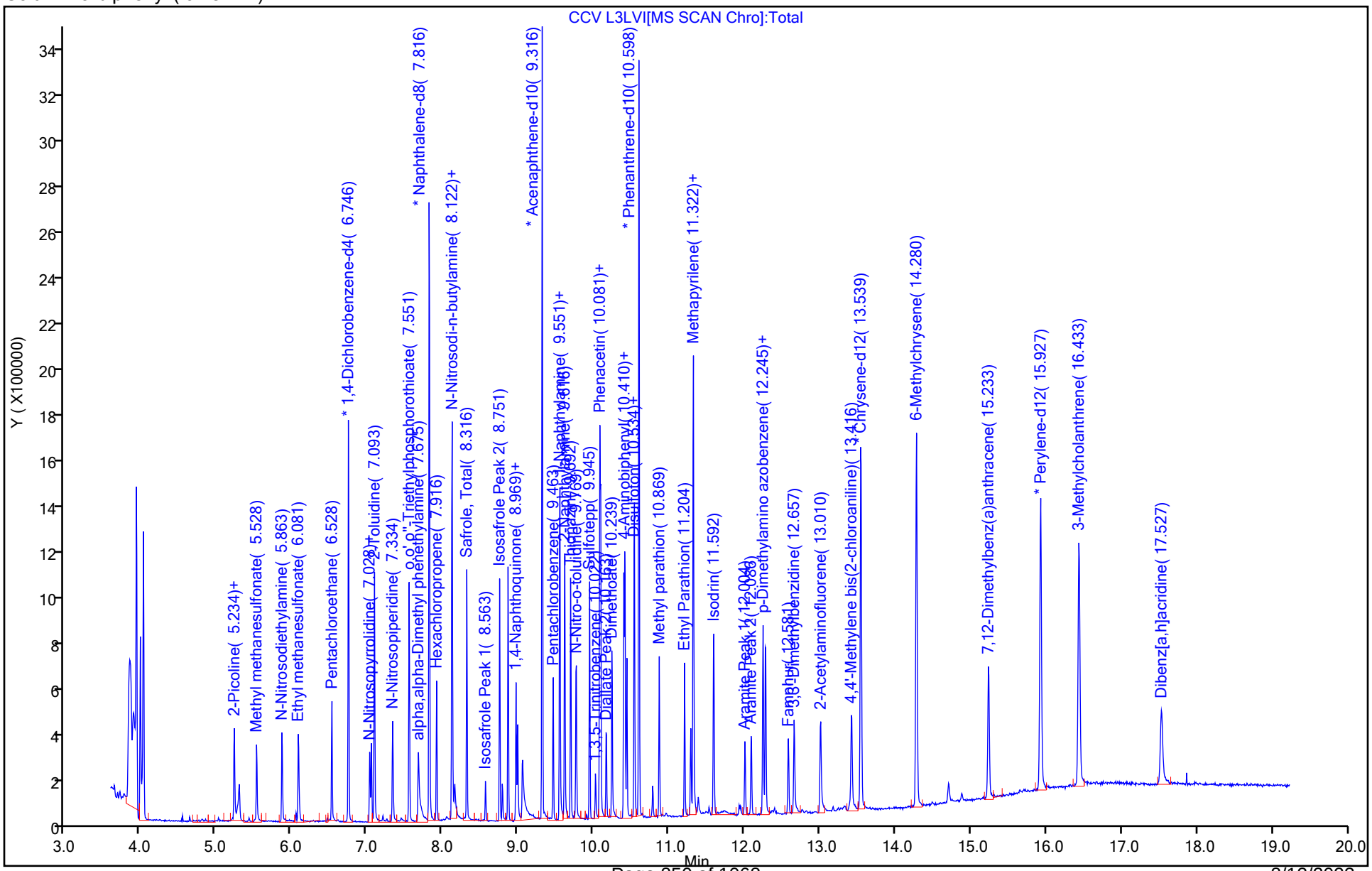
Lims ID: std4 l2lvi Worklist Smp#: 4

Client ID:

Injection Vol: 5.0 ul Dil. Factor: 1.0000 ALS Bottle#: 4

Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL

Column: 5% phenyl (0.18 mm)



Eurofins Cleveland
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\5.D
Lims ID: std3 l2lvi
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 27-Jul-2023 10:14:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 240-0131856-005
Misc. Info.: STD3 L2LVI
Operator ID: Instrument ID: A4AG2
Sublist: chrom-LVI AG2 8270*sub21

Method: \\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\LVI AG2 8270.m
Limit Group: MSS 8270D ICAL
Last Update: 27-Jul-2023 16:23:44 Calib Date: 27-Jul-2023 12:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\10.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: CTX1652

First Level Reviewer: KDZ4 Date: 27-Jul-2023 10:58:18

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.746	6.745	0.001	97	196023	400.0	400.0	
* 2 Naphthalene-d8	136	7.816	7.816	0.000	99	987791	400.0	400.0	
* 3 Acenaphthene-d10	164	9.316	9.316	0.000	93	486200	400.0	400.0	
* 4 Phenanthrene-d10	188	10.598	10.604	-0.006	97	886986	400.0	400.0	
* 5 Chrysene-d12	240	13.539	13.545	-0.006	97	546179	400.0	400.0	
* 6 Perylene-d12	264	15.927	15.927	0.000	94	543083	400.0	400.0	
31 2-Picoline	93	5.234	5.228	0.006	95	50475	100.0	92.2	
32 N-Nitrosomethylethylamine	88	5.299	5.293	0.006	91	34500	100.0	94.6	
34 Methyl methanesulfonate	80	5.534	5.528	0.006	85	43479	100.0	105.6	
36 N-Nitrosodiethylamine	102	5.869	5.863	0.006	96	35697	100.0	92.2	
37 Ethyl methanesulfonate	79	6.087	6.081	0.006	98	60612	100.0	103.5	
46 Pentachloroethane	167	6.528	6.528	0.000	95	18744	100.0	96.3	
56 N-Nitrosopyrrolidine	100	7.034	7.028	0.006	97	33220	100.0	85.1	
59 N-Nitrosomorpholine	56	7.051	7.051	0.000	90	37987	100.0	89.0	
60 2-Toluidine	106	7.093	7.087	0.006	96	114773	100.0	95.2	
63 N-Nitrosopiperidine	114	7.340	7.328	0.012	90	37565	100.0	89.4	
68 o,o',o''-Triethylphosphorothioat	198	7.557	7.545	0.012	88	32108	100.0	94.7	
71 alpha,alpha-Dimethyl phenethylam	58	7.693	7.663	0.030	97	107271	100.0	84.9	M
77 Hexachloropropene	213	7.916	7.916	0.000	94	30760	100.0	89.7	
82 N-Nitrosodi-n-butylamine	84	8.128	8.116	0.012	69	49886	100.0	94.2	
81 Quinoline	129	8.128	8.116	0.012	98	129890	100.0	83.6	
84 p-Phenylene diamine	108	8.169	8.145	0.024	95	19019	100.0	108.1	M
92 Safrole, Total	162	8.322	8.316	0.006	91	46078	100.0	86.2	
95 Isosafrole Peak 1	162	8.569	8.563	0.006	92	7018	16.0	16.3	
91 Isosafrole Peak 2	162	8.751	8.751	0.000	92	49446	84.0	73.5	
102 1,4-Naphthoquinone	158	8.975	8.969	0.006	88	29605	100.0	86.8	
105 1,4-Dinitrobenzene	168	8.992	8.992	0.000	90	14489	100.0	92.2	
114 Pentachlorobenzene	250	9.463	9.463	0.000	95	10982	100.0	82.5	
116 2,3,5,6-Tetrachlorophenol	232	9.557	9.551	0.006	87	11534	NC	NC	
117 1-Naphthylamine	143	9.551	9.551	0.000	98	136872	100.0	97.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
119 2-Naphthylamine	143	9.616	9.616	0.000	98	150078	100.0	100.9	
121 Thionazin	97	9.698	9.692	0.006	82	36203	100.0	101.8	
123 N-Nitro-o-toluidine	152	9.769	9.769	0.000	93	33365	100.0	80.6	
132 Sulfotepp	202	9.951	9.939	0.012	78	16604	100.0	91.7	
133 1,3,5-Trinitrobenzene	213	10.028	10.028	0.000	82	5137	100.0	125.7	
135 Phenacetin	108	10.081	10.075	0.006	90	62098	100.0	87.8	
134 Diallate Peak 1	86	10.087	10.081	0.006	94	62915	74.0	72.0	
136 Phorate	121	10.092	10.092	0.000	96	38063	100.0	95.1	
137 Diallate Peak 2	86	10.169	10.163	0.006	95	20744	26.0	24.5	
139 Dimethoate	87	10.245	10.239	0.006	98	52877	100.0	88.6	
142 4-Aminobiphenyl	169	10.404	10.398	0.006	90	135205	100.0	81.3	
144 Pronamide	173	10.416	10.416	0.000	91	57659	100.0	83.6	
145 Pentachloronitrobenzene	237	10.439	10.439	0.000	83	11407	100.0	81.8	
146 Disulfoton	88	10.539	10.539	0.000	96	92650	100.0	90.3	
147 Dinoseb	211	10.545	10.545	0.000	86	9556	100.0	110.0	
152 Methyl parathion	109	10.869	10.869	0.000	90	32018	100.0	88.8	
155 Ethyl Parathion	97	11.204	11.204	0.000	82	18771	100.0	91.1	
156 4-Nitroquinoline-1-oxide	190	11.286	11.292	-0.006	67	4971	100.0	130.1	
157 Methapyrilene	58	11.322	11.322	0.000	97	245615	200.0	191.5	
158 Isodrin	66	11.592	11.592	0.000	86	25973	100.0	101.4	
162 Aramite Peak 1	185	12.010	12.010	0.000	0	6623	48.0	44.2	
163 Aramite Peak 2	185	12.092	12.092	0.000	0	9200	52.0	47.6	
164 p-Dimethylamino azobenzene	225	12.245	12.251	-0.006	90	26779	100.0	87.6	
165 Chlorobenzilate	139	12.281	12.280	0.000	82	65153	100.0	88.0	
168 Famphur	218	12.580	12.586	-0.006	90	27900	100.0	110.7	
170 3,3'-Dimethylbenzidine	212	12.657	12.663	-0.006	99	39200	100.0	67.3	
172 2-Acetylaminofluorene	181	13.010	13.010	0.000	95	38683	100.0	91.4	
175 4,4'-Methylene bis(2-chloroanil	231	13.416	13.421	-0.005	94	19962	100.0	90.4	
180 6-Methylchrysene	242	14.280	14.286	-0.006	98	253260	200.0	187.4	
182 7,12-Dimethylbenz(a)anthracene	256	15.233	15.239	-0.006	92	60581	100.0	82.9	
186 3-Methylcholanthrene	268	16.433	16.445	-0.012	97	151454	200.0	164.4	
188 Dibenz[a,h]acridine	279	17.521	17.533	-0.012	92	96402	100.0	97.5	
S 194 Isosafrole	162				0		100.0	89.8	
S 195 Diallate	86				0		100.0	96.5	
S 196 Aramite, Total	185				0		100.0	91.8	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

SMLIST2 L3 W_00030 Amount Added: 0.10 Units: mL

Report Date: 27-Jul-2023 16:23:45 Chrom Revision: 2.3 19-Jul-2023 18:28:48

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\5.D

Injection Date: 27-Jul-2023 10:14:30 Instrument ID: A4AG2 Operator ID:

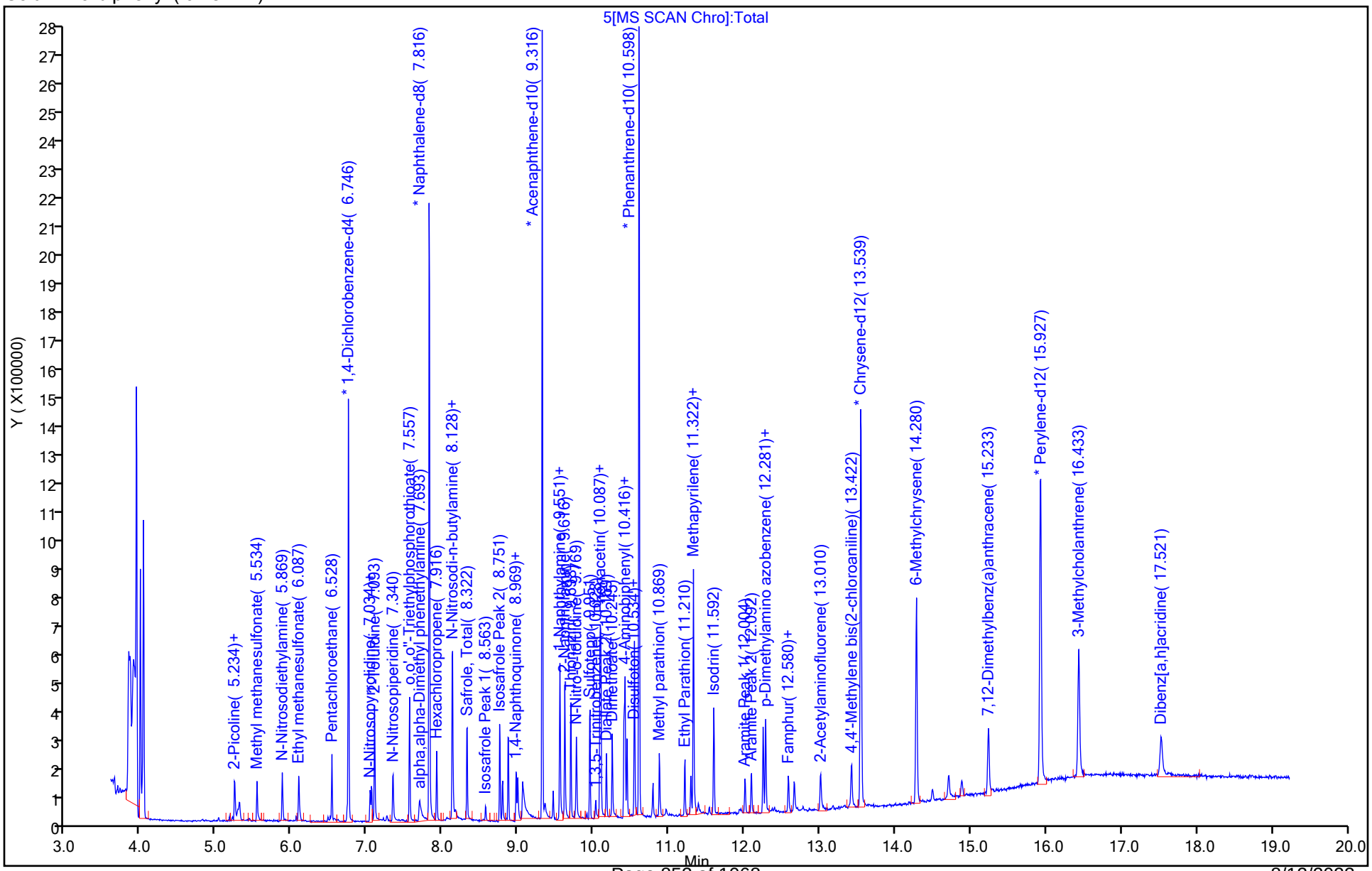
Lims ID: std3 l2lvi Worklist Smp#: 5

Client ID:

Injection Vol: 5.0 ul Dil. Factor: 1.0000 ALS Bottle#: 5

Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL

Column: 5% phenyl (0.18 mm)



Eurofins Cleveland

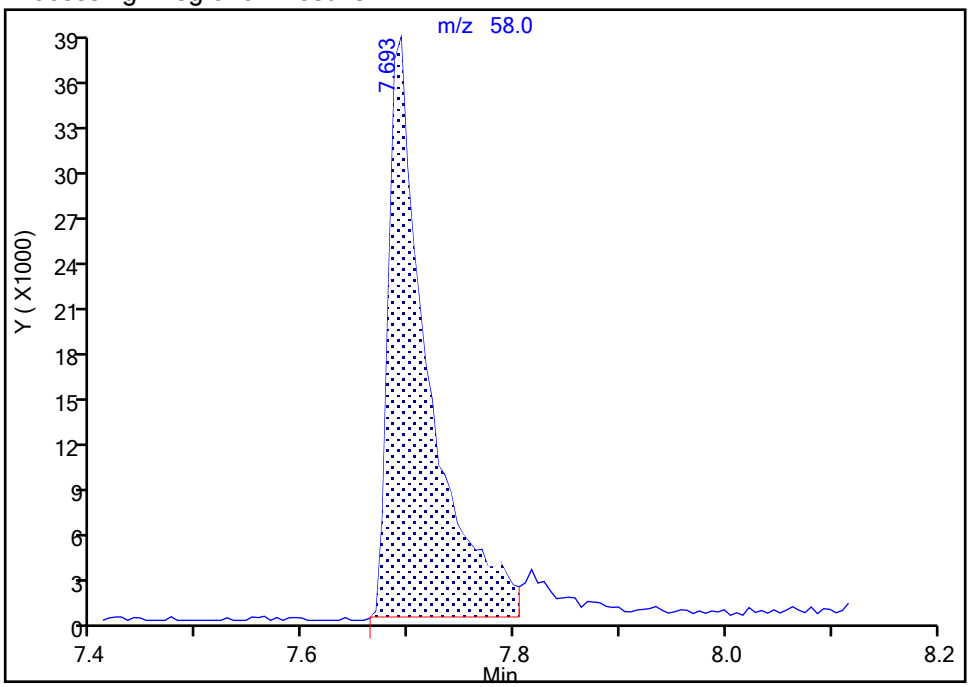
Data File:	\\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\5.D				
Injection Date:	27-Jul-2023 10:14:30	Instrument ID:	A4AG2		
Lims ID:	std3 l2lvi				
Client ID:					
Operator ID:		ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

71 alpha,alpha-Dimethyl phenethylam, CAS: 122-09-8

Signal: 1

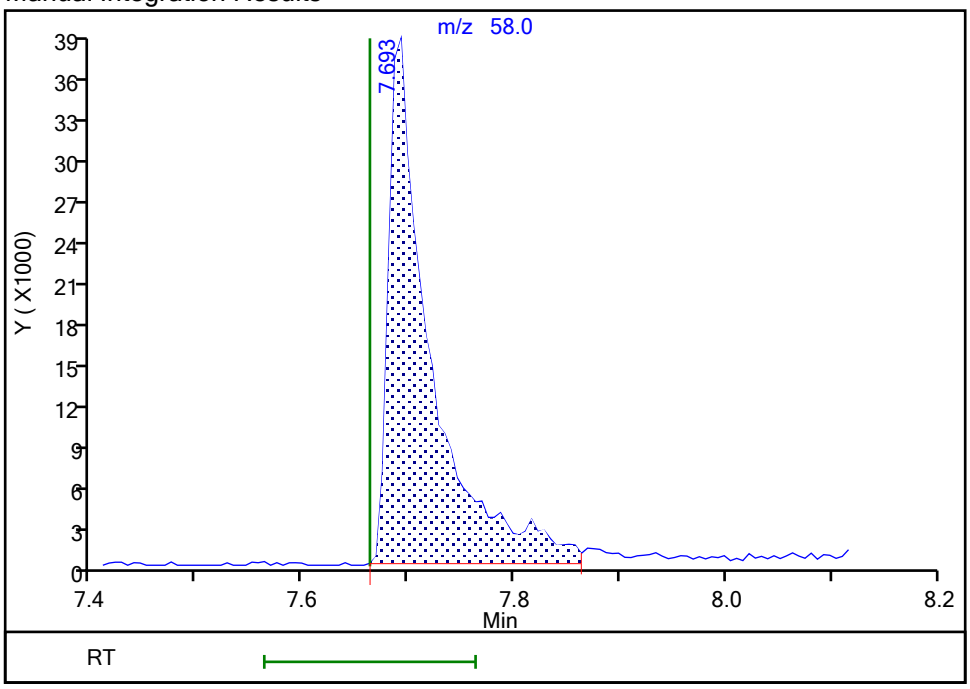
Processing Integration Results

RT: 7.69
Area: 99956
Amount: 77.678694
Amount Units: ng/ml



Manual Integration Results

RT: 7.69
Area: 107271
Amount: 84.875384
Amount Units: ng/ml



Reviewer: KDZ4, 27-Jul-2023 10:53:38 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Cleveland

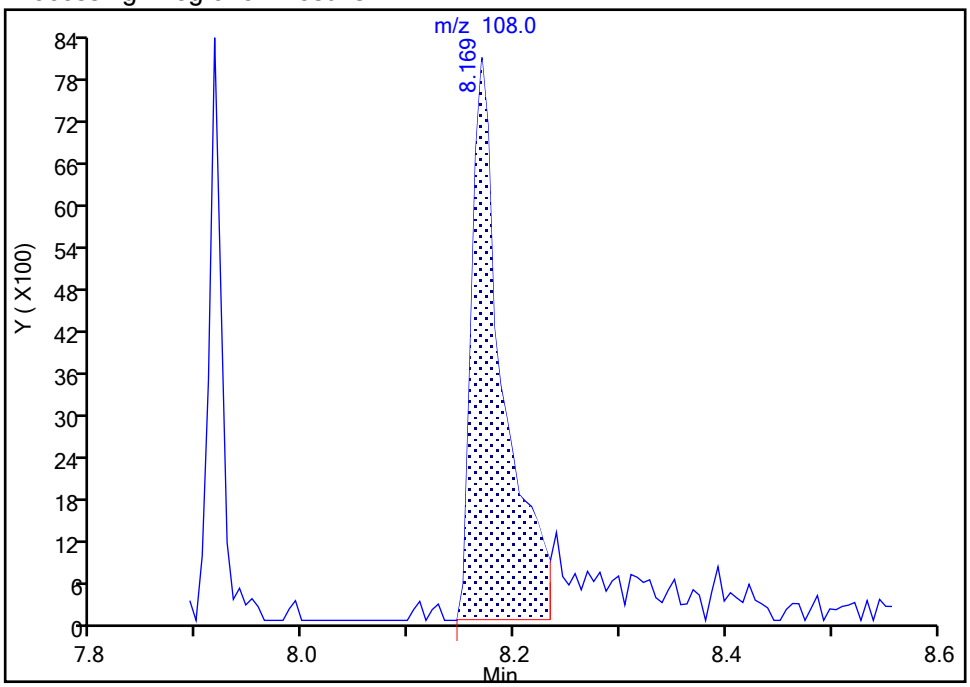
Data File: \\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\5.D
Injection Date: 27-Jul-2023 10:14:30 Instrument ID: A4AG2
Lims ID: std3 l2lvi
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL
Column: 5% phenyl (0.18 mm) Detector MS SCAN

84 p-Phenylene diamine, CAS: 106-50-3

Signal: 1

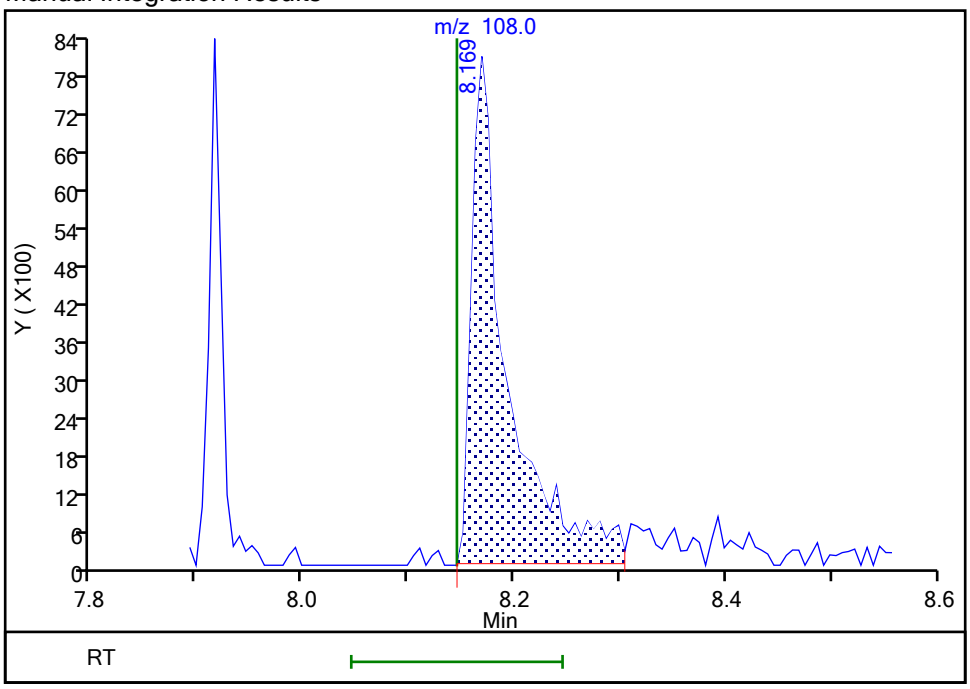
Processing Integration Results

RT: 8.17
Area: 16649
Amount: 51.043271
Amount Units: ng/ml



Manual Integration Results

RT: 8.17
Area: 19019
Amount: 108.0723
Amount Units: ng/ml



Reviewer: KDZ4, 27-Jul-2023 10:54:29 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Cleveland
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\6.D
Lims ID: std2 l2lvi
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 27-Jul-2023 10:38:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 240-0131856-006
Misc. Info.: STD2 L2LVI
Operator ID: Instrument ID: A4AG2
Sublist: chrom-LVI AG2 8270*sub21

Method: \\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\LVI AG2 8270.m
Limit Group: MSS 8270D ICAL
Last Update: 27-Jul-2023 16:21:19 Calib Date: 27-Jul-2023 12:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\10.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: CTX1652

First Level Reviewer: KDZ4 Date: 27-Jul-2023 11:14:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.745	6.745	0.000	96	190989	400.0	400.0	
* 2 Naphthalene-d8	136	7.816	7.816	0.000	99	993981	400.0	400.0	
* 3 Acenaphthene-d10	164	9.316	9.316	0.000	94	350461	400.0	400.0	
* 4 Phenanthrene-d10	188	10.598	10.604	-0.006	97	718963	400.0	400.0	
* 5 Chrysene-d12	240	13.539	13.545	-0.006	97	474848	400.0	400.0	
* 6 Perylene-d12	264	15.921	15.927	-0.006	94	525359	400.0	400.0	
31 2-Picoline	93	5.246	5.228	0.018	95	25188	50.0	47.2	
32 N-Nitrosomethylethylamine	88	5.304	5.293	0.011	94	18302	50.0	51.5	
34 Methyl methanesulfonate	80	5.540	5.528	0.012	85	22577	50.0	56.3	
36 N-Nitrosodiethylamine	102	5.875	5.863	0.012	97	19428	50.0	51.5	
37 Ethyl methanesulfonate	79	6.093	6.081	0.012	96	32234	50.0	56.5	
46 Pentachloroethane	167	6.528	6.528	0.000	91	8527	50.0	45.0	
56 N-Nitrosopyrrolidine	100	7.040	7.028	0.012	93	17703	50.0	46.5	
59 N-Nitrosomorpholine	56	7.057	7.051	0.006	92	22685	50.0	54.5	
60 2-Toluidine	106	7.098	7.087	0.011	95	58866	50.0	50.1	
63 N-Nitrosopiperidine	114	7.340	7.328	0.012	89	18110	50.0	42.8	
68 o,o',o''-Triethylphosphorothioat	198	7.563	7.545	0.018	87	17113	50.0	50.1	
71 alpha,alpha-Dimethyl phenethylam	58	7.704	7.663	0.041	97	66713	50.0	57.6	
77 Hexachloropropene	213	7.922	7.916	0.006	95	16033	50.0	46.5	
82 N-Nitrosodi-n-butylamine	84	8.128	8.116	0.012	64	22854	50.0	42.9	
81 Quinoline	129	8.128	8.116	0.012	97	76663	50.0	51.7	
84 p-Phenylene diamine	108		8.145				ND	ND	
92 Safrole, Total	162	8.322	8.316	0.006	92	25657	50.0	54.4	
95 Isosafrole Peak 1	162	8.569	8.563	0.006	76	735	8.00	7.38	
91 Isosafrole Peak 2	162	8.757	8.751	0.006	92	14142	42.0	29.2	
102 1,4-Naphthoquinone	158	8.975	8.969	0.006	90	13112	50.0	63.4	
105 1,4-Dinitrobenzene	168	8.992	8.992	0.000	91	5303	50.0	60.8	
114 Pentachlorobenzene	250	9.463	9.463	0.000	90	4077	50.0	71.4	
116 2,3,5,6-Tetrachlorophenol	232	9.557	9.551	0.006	83	3935	NC	NC	
117 1-Naphthylamine	143	9.551	9.551	0.000	98	52979	50.0	52.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
119 2-Naphthylamine	143	9.616	9.616	0.000	98	59060	50.0	55.1	
121 Thionazin	97	9.698	9.692	0.006	82	13653	50.0	53.3	
123 N-Nitro-o-toluidine	152	9.769	9.769	0.000	90	11983	50.0	40.1	
132 Sulfotepp	202	9.951	9.939	0.012	78	6917	50.0	47.1	
133 1,3,5-Trinitrobenzene	213		10.028				ND	ND	U
135 Phenacetin	108	10.086	10.075	0.011	70	27446	50.0	55.8	
134 Diallate Peak 1	86	10.086	10.081	0.005	91	27087	37.0	38.2	
136 Phorate	121	10.098	10.092	0.006	96	15361	50.0	47.4	
137 Diallate Peak 2	86	10.169	10.163	0.006	94	8996	13.0	13.1	
139 Dimethoate	87	10.245	10.239	0.006	97	21458	50.0	51.8	
142 4-Aminobiphenyl	169	10.404	10.398	0.006	88	53588	50.0	39.7	
144 Pronamide	173	10.416	10.416	0.000	91	23107	50.0	41.3	
145 Pentachloronitrobenzene	237	10.439	10.439	0.000	81	4376	50.0	38.7	
146 Disulfoton	88	10.539	10.539	0.000	96	39497	50.0	47.5	
147 Dinoseb	211		10.545				ND	ND	U
152 Methyl parathion	109	10.869	10.869	0.000	89	11697	50.0	59.3	
155 Ethyl Parathion	97	11.210	11.204	0.006	79	6268	50.0	61.5	
156 4-Nitroquinoline-1-oxide	190		11.292				ND	ND	U
157 Methapyrilene	58	11.322	11.322	0.000	97	92257	100.0	88.7	
158 Isodrin	66	11.592	11.592	0.000	86	11666	50.0	56.2	
162 Aramite Peak 1	185	12.010	12.010	0.000	0	2922	24.0	28.1	
163 Aramite Peak 2	185	12.092	12.092	0.000	0	3998	26.0	30.2	
164 p-Dimethylamino azobenzene	225	12.245	12.251	-0.006	90	10300	50.0	47.4	
165 Chlorobenzilate	139	12.280	12.280	0.000	83	27357	50.0	42.5	
168 Famphur	218	12.580	12.586	-0.006	89	10070	50.0	45.9	
170 3,3'-Dimethylbenzidine	212		12.663				ND	ND	U
172 2-Acetylaminofluorene	181	13.010	13.010	0.000	94	14251	50.0	66.1	
175 4,4'-Methylene bis(2-chloroanil	231	13.416	13.421	-0.005	91	7368	50.0	58.5	
180 6-Methylchrysene	242	14.280	14.286	-0.006	99	112395	100.0	95.7	
182 7,12-Dimethylbenz(a)anthracene	256	15.227	15.239	-0.012	91	28018	50.0	39.6	
186 3-Methylcholanthrene	268	16.427	16.445	-0.018	95	69043	100.0	77.5	
188 Dibenz[a,h]acridine	279	17.521	17.533	-0.012	92	42242	50.0	58.5	
S 194 Isosafrole	162				0		50.0	36.6	
S 195 Diallate	86				0		50.0	51.3	
S 196 Aramite, Total	185				0		50.0	58.3	

QC Flag Legend

Processing Flags

NC - Not Calibrated

ND - Not Detected or Marked ND

Review Flags

U - Marked Undetected

Reagents:

SMLIST2 L2 W_00031 Amount Added: 0.10 Units: mL

Report Date: 27-Jul-2023 16:21:20 Chrom Revision: 2.3 19-Jul-2023 18:28:48

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\6.D

Injection Date: 27-Jul-2023 10:38:30 Instrument ID: A4AG2 Operator ID:

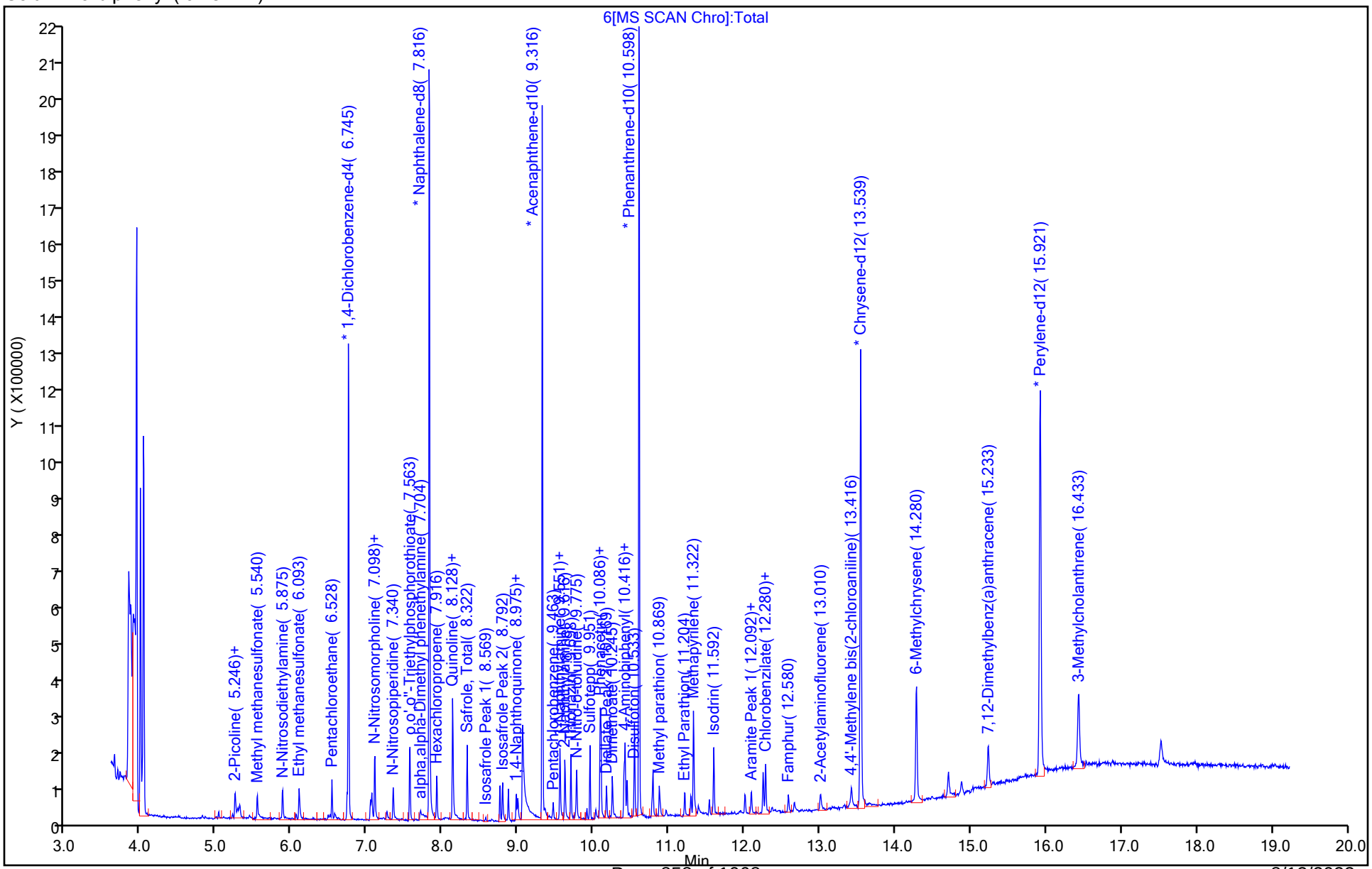
Lims ID: std2 l2lvi Worklist Smp#: 6

Client ID:

Injection Vol: 5.0 ul Dil. Factor: 1.0000 ALS Bottle#: 6

Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL

Column: 5% phenyl (0.18 mm)



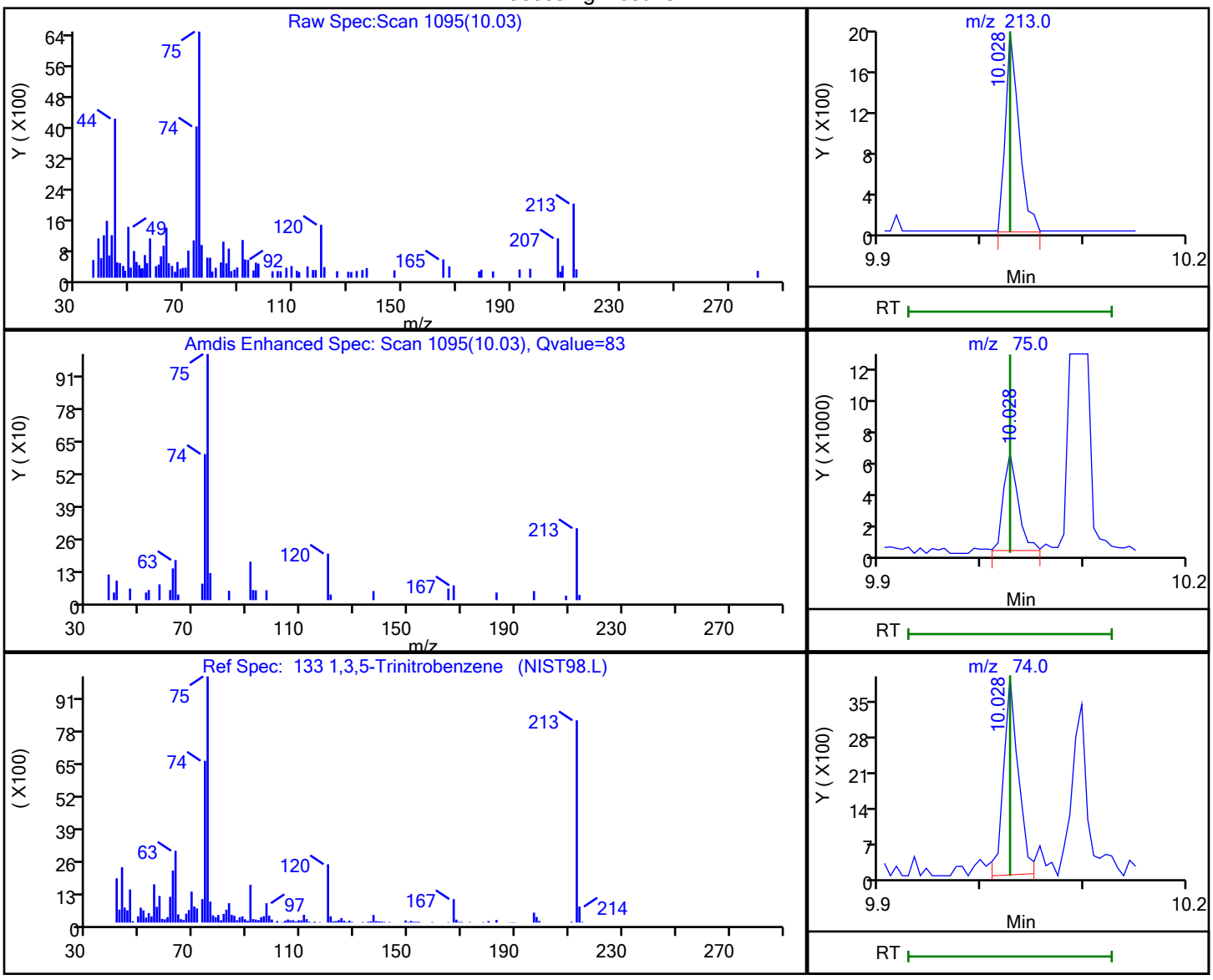
User Disabled Compound Report

Eurofins Cleveland

Data File:	\\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\6.D				
Injection Date:	27-Jul-2023 10:38:30	Instrument ID:	A4AG2		
Lims ID:	std2 l2lvi				
Client ID:					
Operator ID:		ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

133 1,3,5-Trinitrobenzene, CAS: 99-35-4

Processing Results



RT	Mass	Response	Amount
10.03	213.00	1797	33.668626
10.03	75.00	6151	
10.03	74.00	3987	

Reviewer: KDZ4, 27-Jul-2023 11:13:48 -04:00:00 (UTC)

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

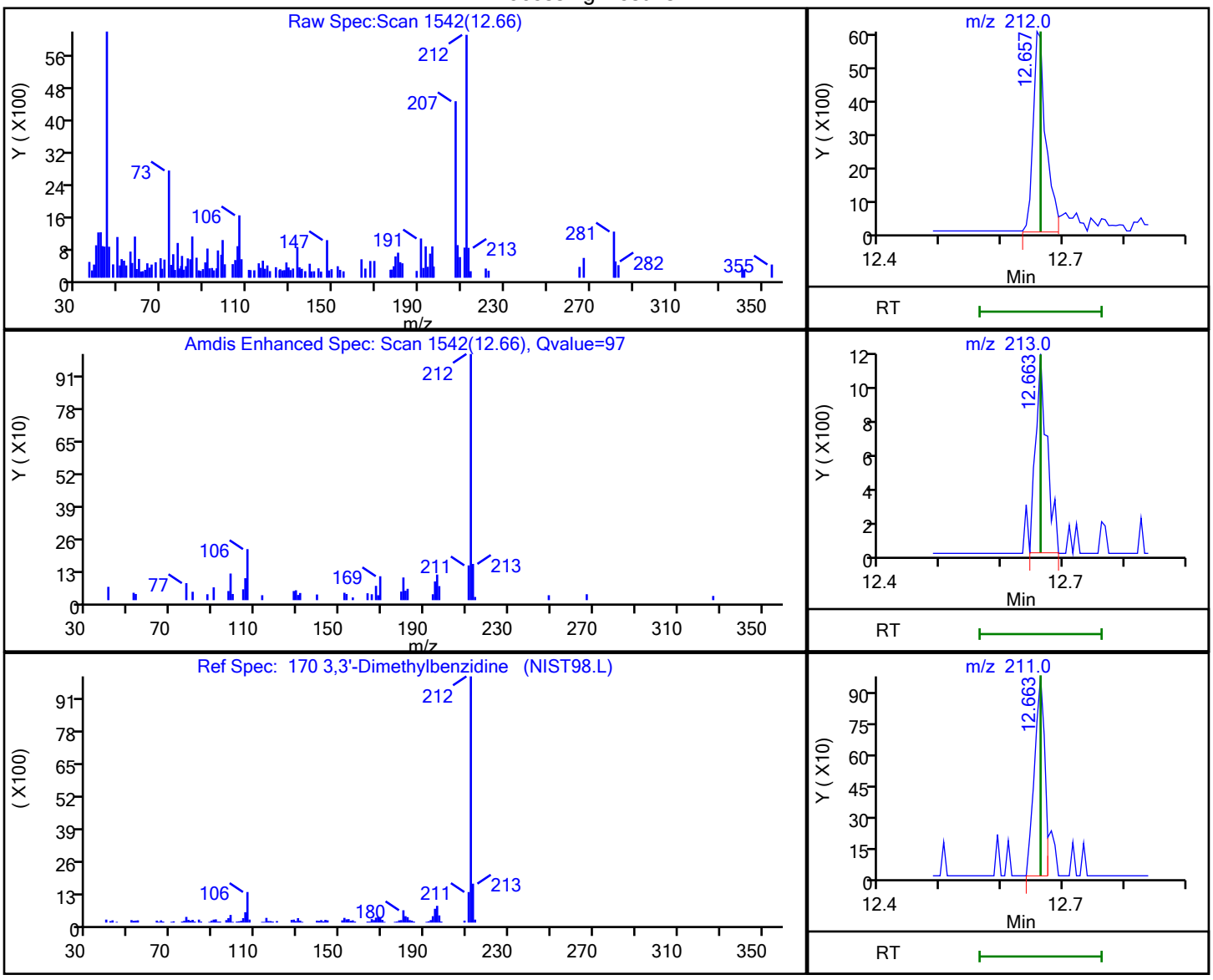
User Disabled Compound Report

Eurofins Cleveland

Data File:	\\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\6.D				
Injection Date:	27-Jul-2023 10:38:30	Instrument ID:	A4AG2		
Lims ID:	std2 l2lvi				
Client ID:					
Operator ID:		ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

170 3,3'-Dimethylbenzidine, CAS: 119-93-7

Processing Results



RT	Mass	Response	Amount
12.66	212.00	8705	18.127788
12.66	213.00	1528	
12.66	211.00	1139	

Reviewer: KDZ4, 27-Jul-2023 11:13:52 -04:00:00 (UTC)

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

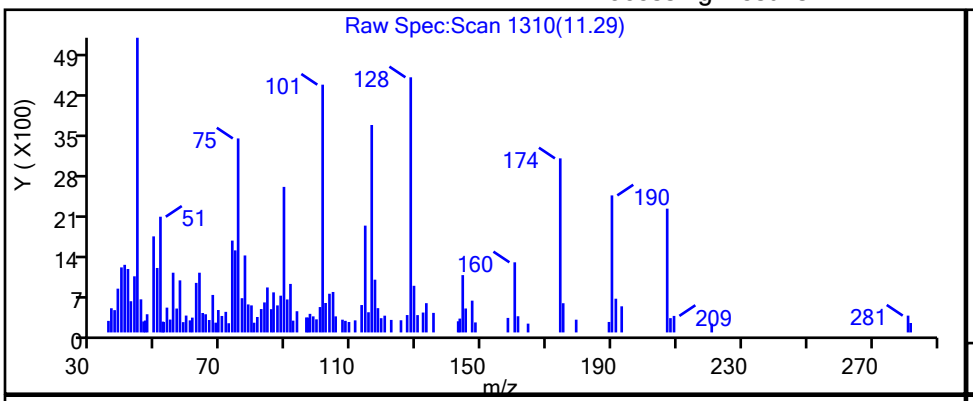
User Disabled Compound Report

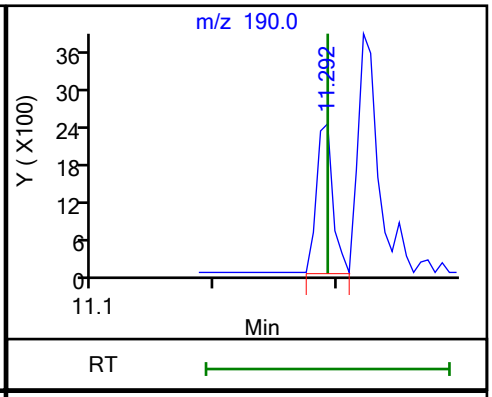
Eurofins Cleveland

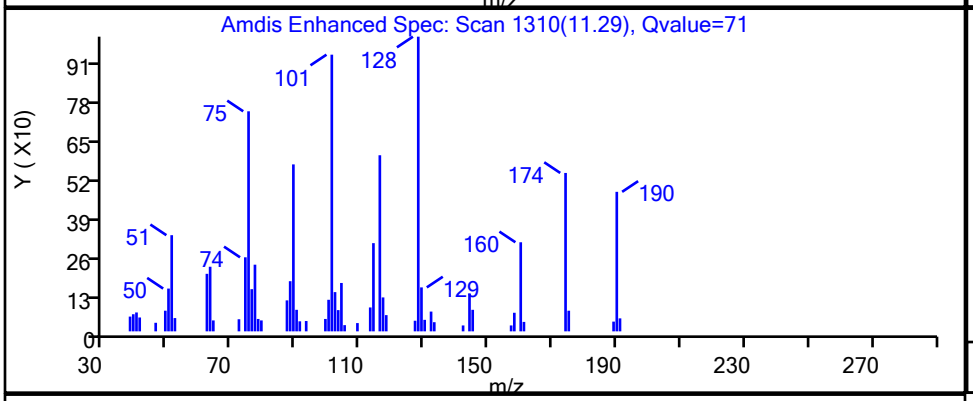
Data File:	\\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\6.D				
Injection Date:	27-Jul-2023 10:38:30	Instrument ID:	A4AG2		
Lims ID:	std2 l2lvi				
Client ID:					
Operator ID:		ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

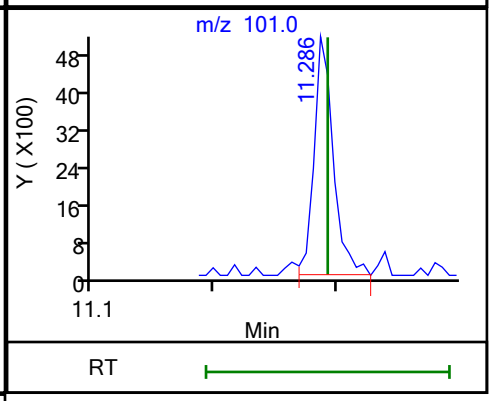
156 4-Nitroquinoline-1-oxide, CAS: 56-57-5

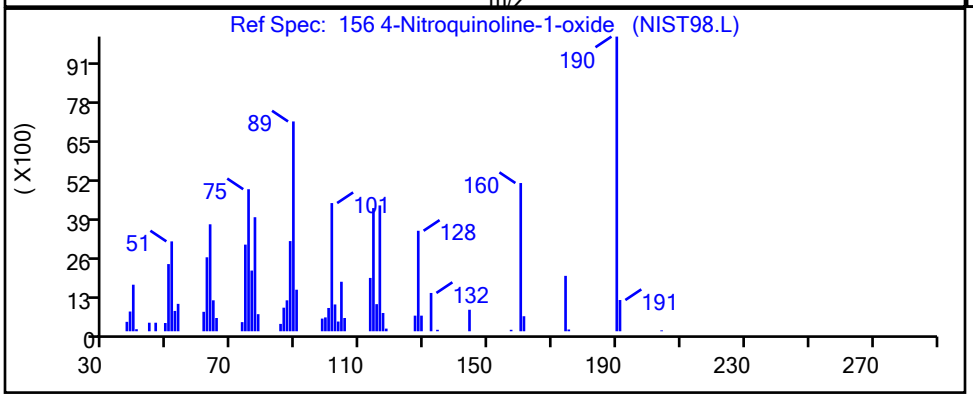
Processing Results











RT	Mass	Response	Amount
11.29	190.00	2225	38.105211
11.29	101.00	5705	

Reviewer: KDZ4, 27-Jul-2023 11:13:41 -04:00:00 (UTC)

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

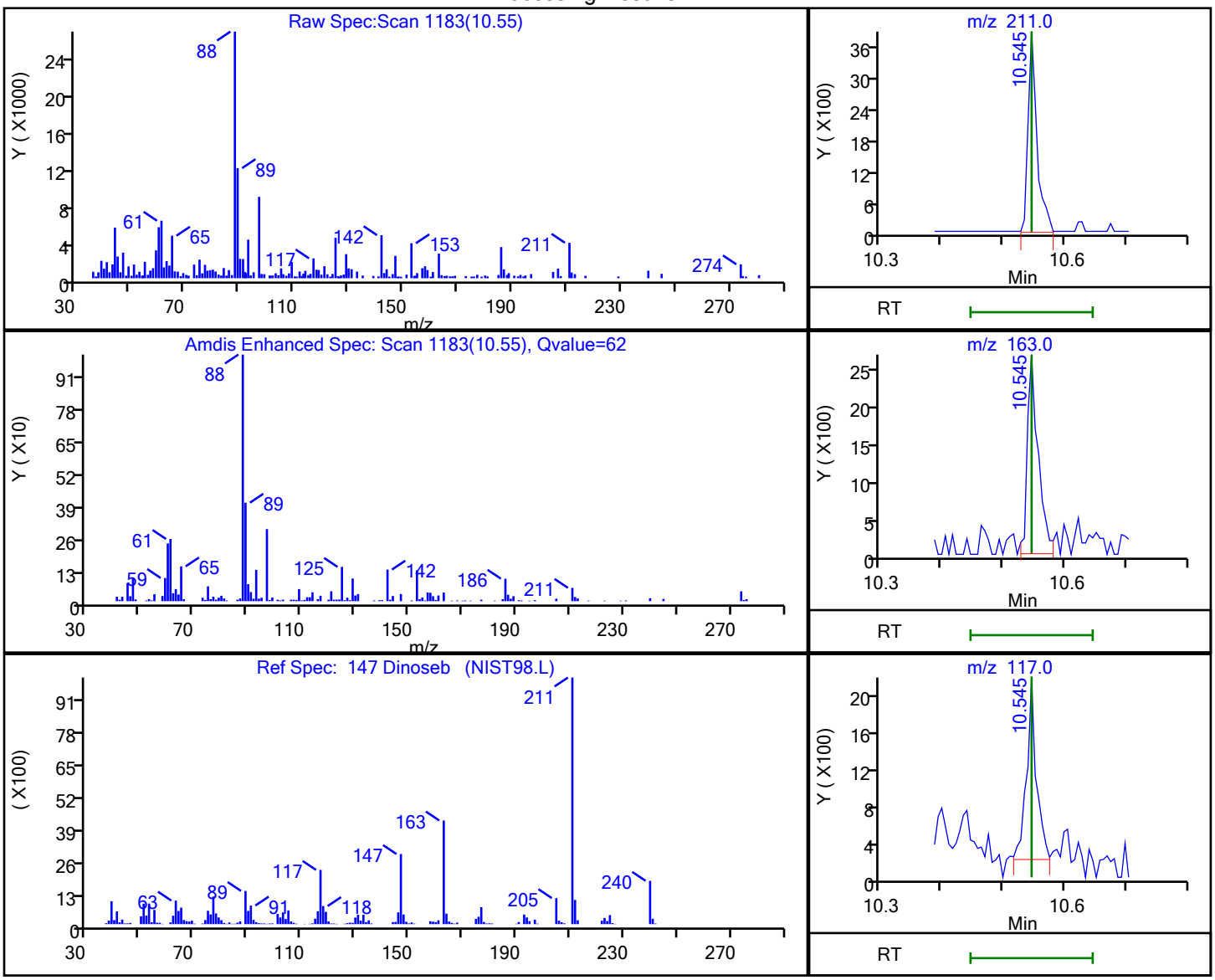
User Disabled Compound Report

Eurofins Cleveland

Data File:	\\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\6.D				
Injection Date:	27-Jul-2023 10:38:30	Instrument ID:	A4AG2		
Lims ID:	std2 l2lvi				
Client ID:					
Operator ID:		ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

147 Dinoseb, CAS: 88-85-7

Processing Results



RT	Mass	Response	Amount
10.55	211.00	3849	33.333135
10.55	163.00	3312	
10.55	117.00	2198	

Reviewer: KDZ4, 27-Jul-2023 11:13:44 -04:00:00 (UTC)

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

Eurofins Cleveland
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\7.D
Lims ID: std6 l2lvi
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 27-Jul-2023 11:01:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 240-0131856-007
Misc. Info.: STD6 L2LVI
Operator ID: Instrument ID: A4AG2
Sublist: chrom-LVI AG2 8270*sub21

Method: \\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\LVI AG2 8270.m
Limit Group: MSS 8270D ICAL
Last Update: 27-Jul-2023 16:18:26 Calib Date: 27-Jul-2023 12:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\10.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: CTX1652

First Level Reviewer: KDZ4 Date: 27-Jul-2023 11:52:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.746	6.746	0.000	96	207790	400.0	400.0	
* 2 Naphthalene-d8	136	7.816	7.816	0.000	99	1023609	400.0	400.0	
* 3 Acenaphthene-d10	164	9.316	9.316	0.000	93	575699	400.0	400.0	
* 4 Phenanthrene-d10	188	10.598	10.598	0.000	97	890572	400.0	400.0	
* 5 Chrysene-d12	240	13.539	13.539	0.000	97	582992	400.0	400.0	
* 6 Perylene-d12	264	15.921	15.921	0.000	94	557068	400.0	400.0	
31 2-Picoline	93	5.228	5.228	0.000	95	616382	1000.0	1062.1	
32 N-Nitrosomethylethylamine	88	5.293	5.293	0.000	93	435671	1000.0	1127.5	
34 Methyl methanesulfonate	80	5.522	5.522	0.000	85	451503	1000.0	1034.3	
36 N-Nitrosodiethylamine	102	5.857	5.857	0.000	98	458100	1000.0	1116.4	
37 Ethyl methanesulfonate	79	6.075	6.075	0.000	98	669548	1000.0	1078.1	
46 Pentachloroethane	167	6.522	6.522	0.000	96	219176	1000.0	1062.3	
56 N-Nitrosopyrrolidine	100	7.022	7.022	0.000	95	480413	1000.0	1160.8	
59 N-Nitrosomorpholine	56	7.046	7.046	0.000	92	529821	1000.0	1170.7	
60 2-Toluidine	106	7.087	7.087	0.000	95	1341335	1000.0	1049.2	
63 N-Nitrosopiperidine	114	7.322	7.322	0.000	86	490408	1000.0	1126.5	
68 o,o',o''-Triethylphosphorothioat	198	7.534	7.534	0.000	86	368223	1000.0	1047.7	
71 alpha,alpha-Dimethyl phenethylam	58	7.645	7.645	0.000	97	1509697	1000.0	982.9	
77 Hexachloropropene	213	7.910	7.910	0.000	93	372783	1000.0	1049.1	
82 N-Nitrosodi-n-butylamine	84	8.110	8.110	0.000	94	594631	1000.0	1083.6	
81 Quinoline	129	8.110	8.110	0.000	98	1910429	1000.0	1100.1	
84 p-Phenylene diamine	108	8.145	8.145	0.000	98	571902	1000.0	1006.3	
92 Safrole, Total	162	8.310	8.310	0.000	92	685384	1000.0	1038.8	
95 Isosafrole Peak 1	162	8.557	8.557	0.000	93	125115	160.0	162.8	
91 Isosafrole Peak 2	162	8.745	8.745	0.000	94	731924	840.0	919.1	
102 1,4-Naphthoquinone	158	8.963	8.963	0.000	91	557358	1000.0	989.6	
105 1,4-Dinitrobenzene	168	8.987	8.987	0.000	89	246892	1000.0	946.6	
114 Pentachlorobenzene	250	9.457	9.457	0.000	97	527501	1000.0	1013.5	
116 2,3,5,6-Tetrachlorophenol	232	9.545	9.545	0.000	73	275510	NC	NC	
117 1-Naphthylamine	143	9.545	9.545	0.000	99	1766983	1000.0	1061.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
119 2-Naphthylamine	143	9.610	9.610	0.000	97	1816041	1000.0	1030.7	
121 Thionazin	97	9.687	9.687	0.000	82	434942	1000.0	1033.3	
123 N-Nitro-o-toluidine	152	9.763	9.763	0.000	97	536881	1000.0	1094.9	
132 Sulfotepp	202	9.934	9.934	0.000	78	193087	1000.0	1062.4	
133 1,3,5-Trinitrobenzene	213	10.022	10.022	0.000	84	120978	1000.0	983.2	
135 Phenacetin	108	10.075	10.075	0.000	83	915068	1000.0	1051.3	
134 Diallate Peak 1	86	10.075	10.075	0.000	85	681386	740.0	776.5	
136 Phorate	121	10.087	10.087	0.000	96	430275	1000.0	1070.8	
137 Diallate Peak 2	86	10.163	10.163	0.000	95	228729	260.0	269.0	
139 Dimethoate	87	10.239	10.239	0.000	98	765120	1000.0	1078.2	
142 4-Aminobiphenyl	169	10.398	10.398	0.000	89	1828532	1000.0	1094.5	
144 Pronamide	173	10.410	10.410	0.000	90	756597	1000.0	1092.9	
145 Pentachloronitrobenzene	237	10.439	10.439	0.000	83	157056	1000.0	1122.3	
146 Disulfoton	88	10.534	10.534	0.000	95	1104546	1000.0	1071.8	
147 Dinoseb	211	10.539	10.539	0.000	93	258592	1000.0	977.8	
152 Methyl parathion	109	10.869	10.869	0.000	90	595533	1000.0	1031.4	
155 Ethyl Parathion	97	11.204	11.204	0.000	84	354287	1000.0	987.2	
156 4-Nitroquinoline-1-oxide	190	11.286	11.286	0.000	83	141739	1000.0	966.4	
157 Methapyrilene	58	11.322	11.322	0.000	96	2789754	2000.0	2166.4	
158 Isodrin	66	11.586	11.586	0.000	90	255317	1000.0	992.7	
162 Aramite Peak 1	185	12.004	12.004	0.000	0	94818	480.0	449.5	
163 Aramite Peak 2	185	12.086	12.086	0.000	0	138960	520.0	503.8	
164 p-Dimethylamino azobenzene	225	12.245	12.245	0.000	89	417758	1000.0	1008.7	
165 Chlorobenzilate	139	12.275	12.275	0.000	83	838829	1000.0	1061.2	
168 Famphur	218	12.580	12.580	0.000	88	167285	1000.0	621.7	
170 3,3'-Dimethylbenzidine	212	12.657	12.657	0.000	99	991155	1000.0	1025.2	
172 2-Acetylaminofluorene	181	13.010	13.010	0.000	95	819421	1000.0	919.9	
175 4,4'-Methylene bis(2-chloroanil	231	13.416	13.416	0.000	95	360932	1000.0	973.9	
180 6-Methylchrysene	242	14.280	14.280	0.000	98	3015338	2000.0	2090.2	
182 7,12-Dimethylbenz(a)anthracene	256	15.233	15.233	0.000	93	796065	1000.0	1062.0	
186 3-Methylcholanthrene	268	16.439	16.439	0.000	96	2076919	2000.0	2198.3	
188 Dibenz[a,h]acridine	279	17.521	17.521	0.000	93	1306165	1000.0	969.7	
S 194 Isosafrole	162				0		1000.0	1082.0	
S 195 Diallate	86				0		1000.0	1045.5	
S 196 Aramite, Total	185				0		1000.0	953.3	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SMLIST2 L6 W_00031 Amount Added: 0.10 Units: mL

Report Date: 27-Jul-2023 16:18:27 Chrom Revision: 2.3 19-Jul-2023 18:28:48

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\7.D

Injection Date: 27-Jul-2023 11:01:30 Instrument ID: A4AG2 Operator ID:

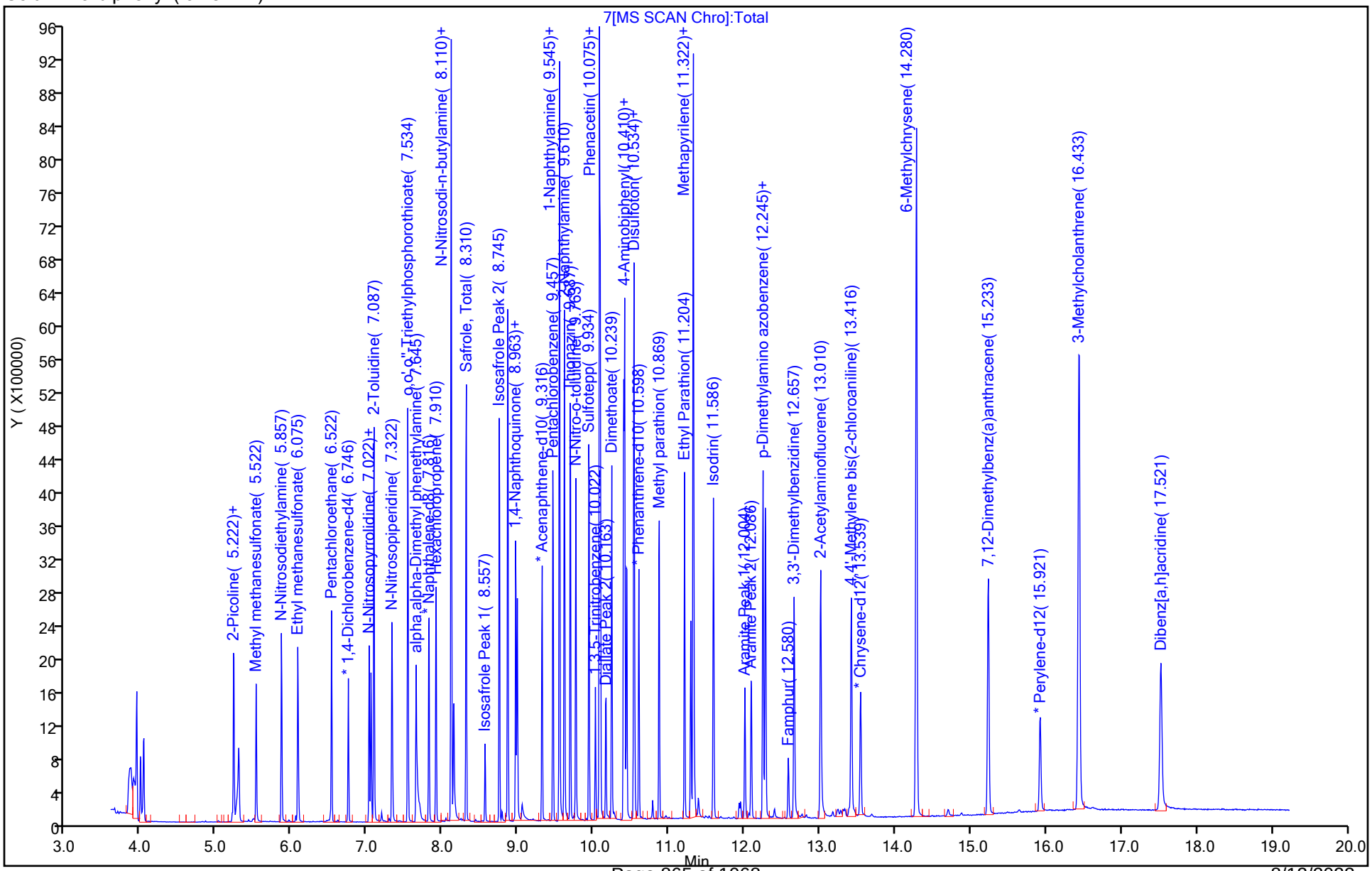
Lims ID: std6 l2lvi Worklist Smp#: 7

Client ID:

Injection Vol: 5.0 ul Dil. Factor: 1.0000 ALS Bottle#: 7

Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL

Column: 5% phenyl (0.18 mm)



Eurofins Cleveland
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\8.D
Lims ID: std7 l2lvi
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 27-Jul-2023 11:24:30 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 240-0131856-008
Misc. Info.: STD7 L2LVI
Operator ID: Instrument ID: A4AG2
Sublist: chrom-LVI AG2 8270*sub21

Method: \\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\LVI AG2 8270.m
Limit Group: MSS 8270D ICAL
Last Update: 27-Jul-2023 16:11:48 Calib Date: 27-Jul-2023 12:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\10.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: CTX1652

First Level Reviewer: KDZ4 Date: 27-Jul-2023 11:53:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.745	6.746	-0.001	95	214306	400.0	400.0	
* 2 Naphthalene-d8	136	7.810	7.816	-0.006	99	1078835	400.0	400.0	
* 3 Acenaphthene-d10	164	9.316	9.316	0.000	93	596838	400.0	400.0	
* 4 Phenanthrene-d10	188	10.598	10.598	0.000	97	910343	400.0	400.0	
* 5 Chrysene-d12	240	13.539	13.539	0.000	97	610908	400.0	400.0	
* 6 Perylene-d12	264	15.921	15.921	0.000	94	586276	400.0	400.0	
31 2-Picoline	93	5.222	5.228	-0.006	95	952645	1500.0	1591.7	
32 N-Nitrosomethylethylamine	88	5.293	5.293	0.000	92	604450	1500.0	1516.8	
34 Methyl methanesulfonate	80	5.522	5.522	0.000	85	685261	1500.0	1522.1	
36 N-Nitrosodiethylamine	102	5.857	5.857	0.000	92	669952	1500.0	1583.1	
37 Ethyl methanesulfonate	79	6.075	6.075	0.000	98	980373	1500.0	1530.6	
46 Pentachloroethane	167	6.522	6.522	0.000	96	324060	1500.0	1522.8	
56 N-Nitrosopyrrolidine	100	7.022	7.022	0.000	96	701517	1500.0	1643.5	
59 N-Nitrosomorpholine	56	7.045	7.046	-0.001	91	729030	1500.0	1561.9	
60 2-Toluidine	106	7.081	7.087	-0.006	96	2135536	1500.0	1619.6	
63 N-Nitrosopiperidine	114	7.322	7.322	0.000	88	730773	1500.0	1592.7	
68 o,o',o''-Triethylphosphorothioat	198	7.528	7.534	-0.006	85	547453	1500.0	1477.9	
71 alpha,alpha-Dimethyl phenethylam	58	7.639	7.645	-0.006	97	2508883	1500.0	1542.0	M
77 Hexachloropropene	213	7.904	7.910	-0.006	92	578611	1500.0	1545.0	
82 N-Nitrosodi-n-butylamine	84	8.110	8.110	0.000	94	860411	1500.0	1487.7	
81 Quinoline	129	8.104	8.110	-0.006	99	2839134	1500.0	1548.6	
84 p-Phenylene diamine	108	8.139	8.145	-0.006	99	935658	1500.0	1520.0	
92 Safrole, Total	162	8.304	8.310	-0.006	93	1102314	1500.0	1577.4	
95 Isosafrole Peak 1	162	8.557	8.557	0.000	92	190167	240.0	236.0	
91 Isosafrole Peak 2	162	8.745	8.745	0.000	94	1133648	1260.0	1373.2	
102 1,4-Naphthoquinone	158	8.963	8.963	0.000	90	909718	1500.0	1542.9	
105 1,4-Dinitrobenzene	168	8.986	8.987	-0.001	89	407566	1500.0	1490.5	
114 Pentachlorobenzene	250	9.457	9.457	0.000	97	805733	1500.0	1482.3	
117 1-Naphthylamine	143	9.545	9.545	0.000	98	2606039	1500.0	1509.7	
116 2,3,5,6-Tetrachlorophenol	232	9.545	9.545	0.000	90	440404	NC	NC	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
119 2-Naphthylamine	143	9.610	9.610	0.000	97	2653888	1500.0	1452.8	
121 Thionazin	97	9.686	9.687	-0.001	83	652495	1500.0	1495.2	
123 N-Nitro-o-toluidine	152	9.763	9.763	0.000	96	823230	1500.0	1619.5	
132 Sulfotepp	202	9.933	9.934	-0.001	78	290166	1500.0	1561.9	
133 1,3,5-Trinitrobenzene	213	10.028	10.022	0.006	83	210480	1500.0	1528.4	
134 Diallate Peak 1	86	10.075	10.075	0.000	93	1005216	1110.0	1120.6	
135 Phenacetin	108	10.075	10.075	0.000	93	1371835	1500.0	1533.8	
136 Phorate	121	10.086	10.087	0.000	96	654511	1500.0	1593.5	
137 Diallate Peak 2	86	10.163	10.163	0.000	95	347757	390.0	400.1	
139 Dimethoate	87	10.239	10.239	0.000	98	1138169	1500.0	1562.4	
142 4-Aminobiphenyl	169	10.398	10.398	0.000	89	2878785	1500.0	1685.7	
144 Pronamide	173	10.410	10.410	0.000	90	1181791	1500.0	1670.1	
145 Pentachloronitrobenzene	237	10.439	10.439	0.000	84	234795	1500.0	1641.4	
146 Disulfoton	88	10.533	10.534	-0.001	95	1664481	1500.0	1580.1	
147 Dinoseb	211	10.539	10.539	0.000	93	457143	1500.0	1503.6	
152 Methyl parathion	109	10.869	10.869	0.000	89	940820	1500.0	1574.9	
155 Ethyl Parathion	97	11.204	11.204	0.000	83	567273	1500.0	1523.2	
156 4-Nitroquinoline-1-oxide	190	11.292	11.286	0.006	91	264647	1500.0	1509.1	
157 Methapyrilene	58	11.322	11.322	0.000	96	4052145	3000.0	3078.4	
158 Isodrin	66	11.586	11.586	0.000	90	383893	1500.0	1460.2	
162 Aramite Peak 1	185	12.004	12.004	0.000	0	156809	720.0	702.7	
163 Aramite Peak 2	185	12.092	12.086	0.006	0	224354	780.0	769.3	
164 p-Dimethylamino azobenzene	225	12.245	12.245	0.000	89	674896	1500.0	1499.5	
165 Chlorobenzilate	139	12.280	12.275	0.005	84	1299853	1500.0	1569.3	
168 Famphur	218		12.580				ND	ND	U
170 3,3'-Dimethylbenzidine	212	12.657	12.657	0.000	99	1601107	1500.0	1477.4	
172 2-Acetylaminofluorene	181	13.010	13.010	0.000	95	1395820	1500.0	1465.7	
175 4,4'-Methylene bis(2-chloroanil	231	13.416	13.416	0.000	95	578291	1500.0	1470.5	
180 6-Methylchrysene	242	14.286	14.280	0.006	99	4672025	3000.0	3090.6	
182 7,12-Dimethylbenz(a)anthracene	256	15.233	15.233	0.000	93	1297752	1500.0	1645.1	
186 3-Methylcholanthrene	268	16.439	16.439	0.000	96	3279979	3000.0	3298.7	
188 Dibenz[a,h]acridine	279	17.527	17.521	0.006	93	2112820	1500.0	1476.4	
S 194 Isosafrole	162				0		1500.0	1609.2	
S 195 Diallate	86				0		1500.0	1520.7	
S 196 Aramite, Total	185				0		1500.0	1472.0	

QC Flag Legend

Processing Flags
- NC - Not Calibrated
- ND - Not Detected or Marked ND

Review Flags
- M - Manually Integrated
- U - Marked Undetected

Reagents:

SMLIST2 L7 W_00030 Amount Added: 0.10 Units: mL

Report Date: 27-Jul-2023 16:11:49 Chrom Revision: 2.3 19-Jul-2023 18:28:48

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\8.D

Injection Date: 27-Jul-2023 11:24:30 Instrument ID: A4AG2 Operator ID:

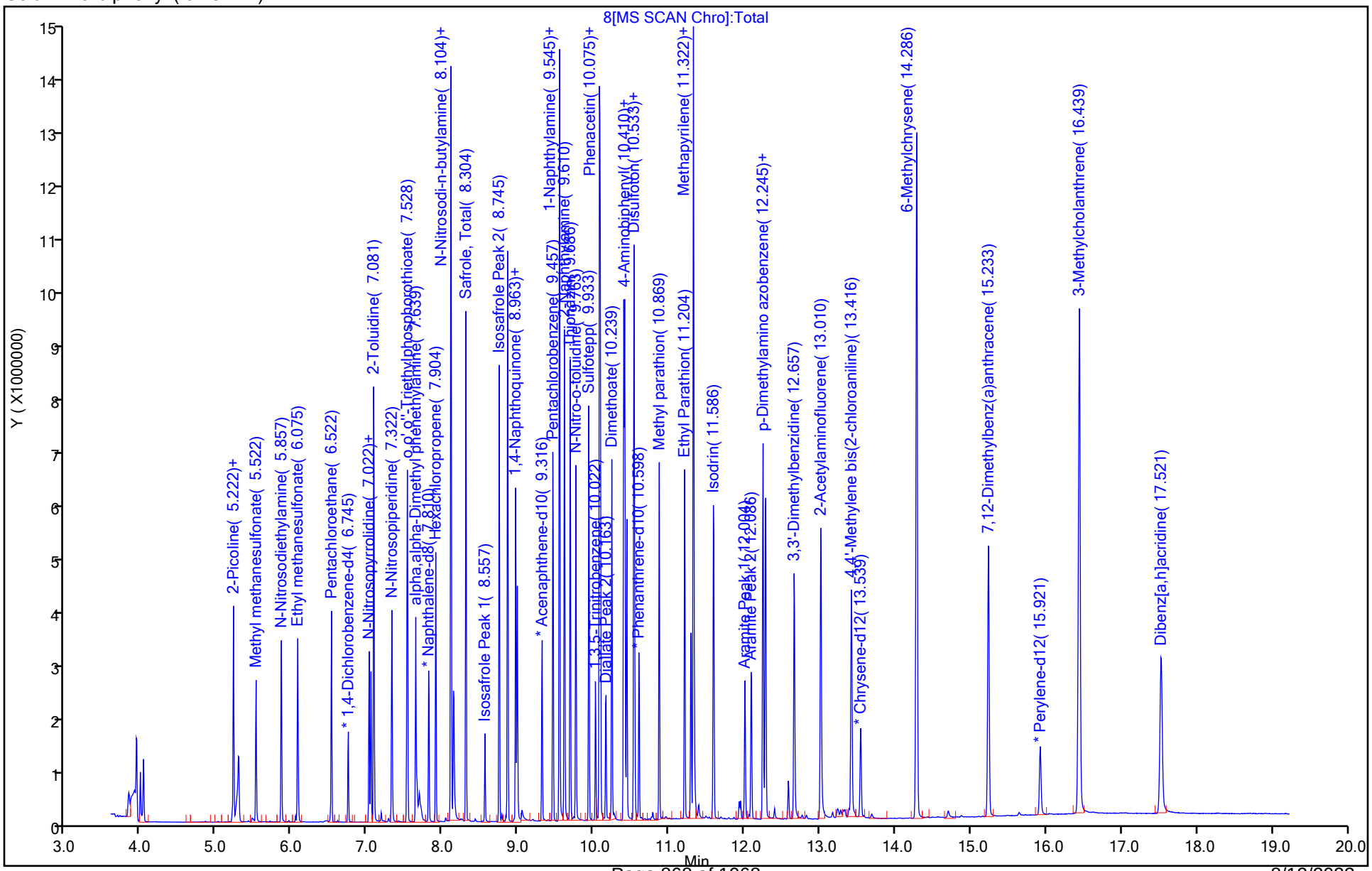
Lims ID: std7 l2lvi Worklist Smp#: 8

Client ID:

Injection Vol: 5.0 ul Dil. Factor: 1.0000 ALS Bottle#: 8

Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL

Column: 5% phenyl (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Cleveland

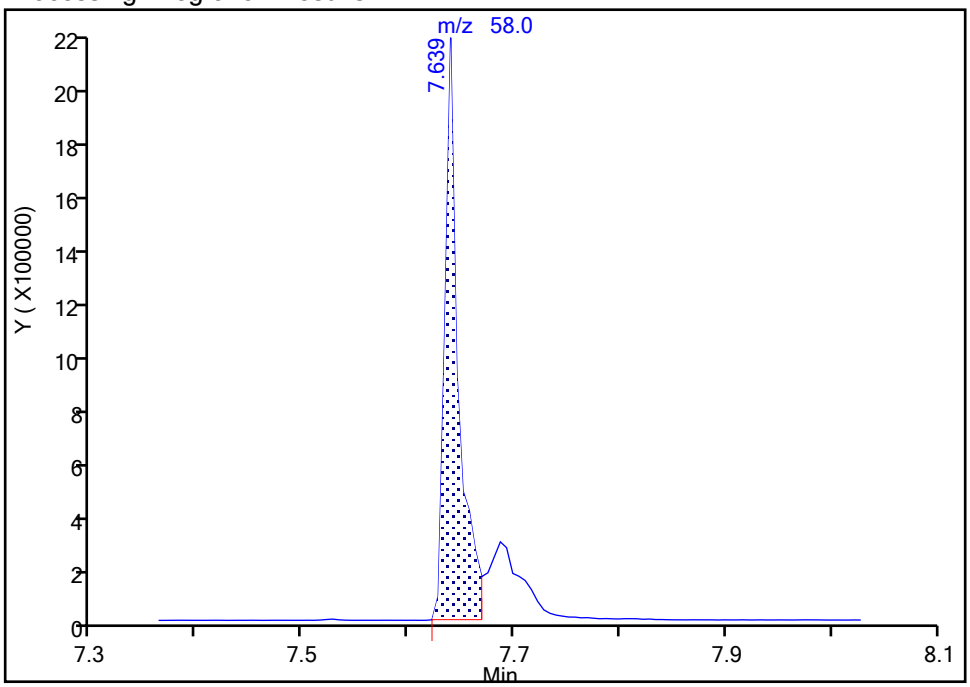
Data File:	\\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\8.D				
Injection Date:	27-Jul-2023 11:24:30	Instrument ID:	A4AG2		
Lims ID:	std7 l2lvi				
Client ID:					
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

71 alpha,alpha-Dimethyl phenethylam, CAS: 122-09-8

Signal: 1

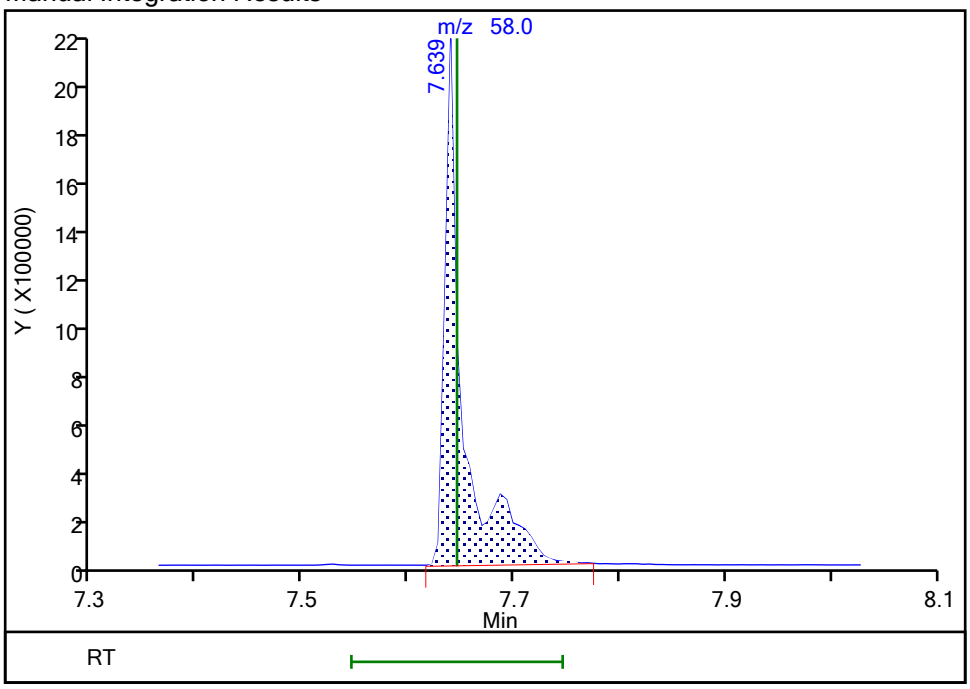
Processing Integration Results

RT: 7.64
Area: 1920397
Amount: 1337.3799
Amount Units: ng/ml



Manual Integration Results

RT: 7.64
Area: 2508883
Amount: 1541.9615
Amount Units: ng/ml



Reviewer: KDZ4, 27-Jul-2023 11:52:56 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Poor chromatography

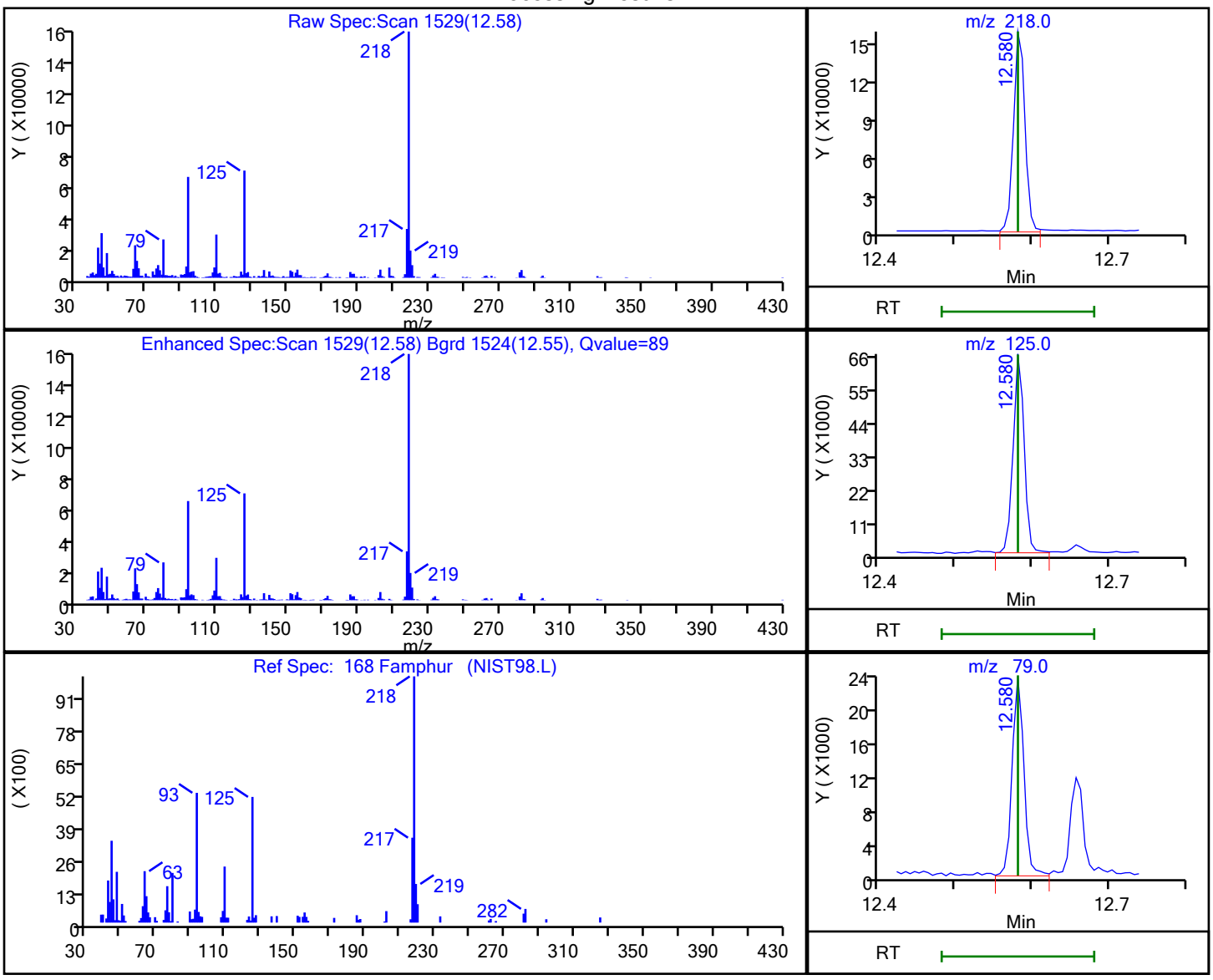
User Disabled Compound Report

Eurofins Cleveland

Data File:	\\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\8.D				
Injection Date:	27-Jul-2023 11:24:30	Instrument ID:	A4AG2		
Lims ID:	std7 l2lvi				
Client ID:					
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

168 Famphur, CAS: 52-85-7

Processing Results



RT	Mass	Response	Amount
12.58	218.00	157259	622.9626
12.58	125.00	65963	
12.58	79.00	24743	

Reviewer: KDZ4, 27-Jul-2023 11:53:20 -04:00:00 (UTC)

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

Eurofins Cleveland
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\9.D
Lims ID: std8 l2lvi
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 27-Jul-2023 11:48:30 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 240-0131856-009
Misc. Info.: STD8 L2LVI
Operator ID: Instrument ID: A4AG2
Sublist: chrom-LVI AG2 8270*sub21

Method: \\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\LVI AG2 8270.m
Limit Group: MSS 8270D ICAL
Last Update: 27-Jul-2023 15:52:53 Calib Date: 27-Jul-2023 12:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\10.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: CTX1652

First Level Reviewer: KDZ4 Date: 27-Jul-2023 12:14:58

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.745	6.746	-0.001	95	249549	400.0	400.0	
* 2 Naphthalene-d8	136	7.810	7.816	-0.006	99	1196420	400.0	400.0	
* 3 Acenaphthene-d10	164	9.310	9.316	-0.006	93	616191	400.0	400.0	
* 4 Phenanthrene-d10	188	10.598	10.598	0.000	97	951606	400.0	400.0	
* 5 Chrysene-d12	240	13.539	13.539	0.000	97	644864	400.0	400.0	
* 6 Perylene-d12	264	15.921	15.921	0.000	94	613806	400.0	400.0	
31 2-Picoline	93	5.222	5.228	-0.006	95	1325155	2000.0	1901.4	
32 N-Nitrosomethylethylamine	88	5.293	5.293	0.000	92	893912	2000.0	1926.3	
34 Methyl methanesulfonate	80	5.522	5.522	0.000	85	970809	2000.0	1851.8	
36 N-Nitrosodiethylamine	102	5.857	5.857	0.000	92	946391	2000.0	1920.5	
37 Ethyl methanesulfonate	79	6.075	6.075	0.000	98	1340287	2000.0	1796.9	
46 Pentachloroethane	167	6.522	6.522	0.000	96	483628	2000.0	1951.7	
56 N-Nitrosopyrrolidine	100	7.022	7.022	0.000	97	1046486	2000.0	2105.5	
59 N-Nitrosomorpholine	56	7.045	7.046	-0.001	91	1055323	2000.0	1941.7	
60 2-Toluidine	106	7.081	7.087	-0.006	95	3128921	2000.0	2037.8	
63 N-Nitrosopiperidine	114	7.322	7.322	0.000	89	1087144	2000.0	2136.5	
68 o,o',o''-Triethylphosphorothioat	198	7.522	7.534	-0.012	87	836173	2000.0	2035.5	
71 alpha,alpha-Dimethyl phenethylam	58	7.634	7.645	-0.011	97	3580287	2000.0	1980.3	M
77 Hexachloropropene	213	7.904	7.910	-0.006	91	871461	2000.0	2098.3	
82 N-Nitrosodi-n-butylamine	84	8.104	8.110	-0.006	58	1244316	2000.0	1940.0	
81 Quinoline	129	8.104	8.110	-0.006	98	3998324	2000.0	1964.7	
84 p-Phenylene diamine	108	8.139	8.145	-0.006	99	1415241	2000.0	2045.5	
92 Safrole, Total	162	8.304	8.310	-0.006	94	1511021	2000.0	1946.2	
95 Isosafrole Peak 1	162	8.557	8.557	0.000	94	266248	320.0	318.0	
91 Isosafrole Peak 2	162	8.745	8.745	0.000	94	1540767	1680.0	1807.7	
102 1,4-Naphthoquinone	158	8.963	8.963	0.000	91	1211158	2000.0	1982.1	
105 1,4-Dinitrobenzene	168	8.986	8.987	-0.001	92	566470	2000.0	1996.8	
114 Pentachlorobenzene	250	9.457	9.457	0.000	97	1119671	2000.0	2001.0	
117 1-Naphthylamine	143	9.545	9.545	0.000	99	3437097	2000.0	1928.6	
116 2,3,5,6-Tetrachlorophenol	232	9.545	9.545	0.000	91	639884	NC	NC	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
119 2-Naphthylamine	143	9.610	9.610	0.000	97	3483069	2000.0	1846.9	
121 Thionazin	97	9.686	9.687	-0.001	84	862933	2000.0	1915.3	
123 N-Nitro-o-toluidine	152	9.763	9.763	0.000	97	1173137	2000.0	2235.3	
132 Sulfotepp	202	9.933	9.934	-0.001	79	407962	2000.0	2100.8	
133 1,3,5-Trinitrobenzene	213	10.022	10.022	0.000	83	306044	2000.0	1999.8	
134 Diallate Peak 1	86	10.075	10.075	0.000	94	1321048	1480.0	1408.9	
135 Phenacetin	108	10.075	10.075	0.000	92	1869654	2000.0	1994.5	
136 Phorate	121	10.086	10.087	0.000	96	862938	2000.0	2009.8	
137 Diallate Peak 2	86	10.157	10.163	-0.006	94	476867	520.0	524.8	
139 Dimethoate	87	10.239	10.239	0.000	98	1512160	2000.0	1981.7	
142 4-Aminobiphenyl	169	10.392	10.398	-0.006	89	4023301	2000.0	2253.7	
144 Pronamide	173	10.410	10.410	0.000	89	1621655	2000.0	2192.3	
145 Pentachloronitrobenzene	237	10.433	10.439	-0.006	84	329783	2000.0	2205.4	
146 Disulfoton	88	10.528	10.534	-0.006	95	2220632	2000.0	2016.6	
147 Dinoseb	211	10.539	10.539	0.000	95	704623	2000.0	2018.3	
152 Methyl parathion	109	10.863	10.869	-0.006	89	1257112	2000.0	2003.3	
155 Ethyl Parathion	97	11.204	11.204	0.000	84	791233	2000.0	2018.9	
156 4-Nitroquinoline-1-oxide	190	11.286	11.286	0.000	94	420068	2000.0	2032.7	
157 Methapyrilene	58	11.322	11.322	0.000	95	5394729	4000.0	3920.6	
158 Isodrin	66	11.586	11.586	0.000	91	523718	2000.0	1905.7	
162 Aramite Peak 1	185	12.004	12.004	0.000	0	229038	960.0	967.9	
163 Aramite Peak 2	185	12.086	12.086	0.000	0	319566	1040.0	1033.5	
164 p-Dimethylamino azobenzene	225	12.245	12.245	0.000	89	971134	2000.0	1979.3	
165 Chlorobenzilate	139	12.274	12.275	-0.001	84	1853520	2000.0	2120.0	
168 Famphur	218		12.580				ND	ND	U
170 3,3'-Dimethylbenzidine	212	12.657	12.657	0.000	99	2420788	2000.0	1978.0	
172 2-Acetylaminofluorene	181	13.010	13.010	0.000	95	2041117	2000.0	2012.2	
175 4,4'-Methylene bis(2-chloroanil	231	13.416	13.416	0.000	95	832758	2000.0	1993.3	
180 6-Methylchrysene	242	14.286	14.280	0.006	99	6499407	4000.0	4073.0	
182 7,12-Dimethylbenz(a)anthracene	256	15.233	15.233	0.000	93	1834445	2000.0	2221.1	
186 3-Methylcholanthrene	268	16.445	16.439	0.006	95	4678244	4000.0	4493.9	
188 Dibenz[a,h]acridine	279	17.527	17.521	0.006	93	3024109	2000.0	2008.8	
S 194 Isosafrole	162				0		2000.0	2125.6	
S 195 Diallate	86				0		2000.0	1933.7	
S 196 Aramite, Total	185				0		2000.0	2001.4	

QC Flag Legend

Processing Flags
- NC - Not Calibrated
- ND - Not Detected or Marked ND

Review Flags
- M - Manually Integrated
- U - Marked Undetected

Reagents:

SMLIST2 L8 W_00030 Amount Added: 0.10 Units: mL

Report Date: 27-Jul-2023 15:52:54 Chrom Revision: 2.3 19-Jul-2023 18:28:48

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\9.D

Injection Date: 27-Jul-2023 11:48:30 Instrument ID: A4AG2 Operator ID:

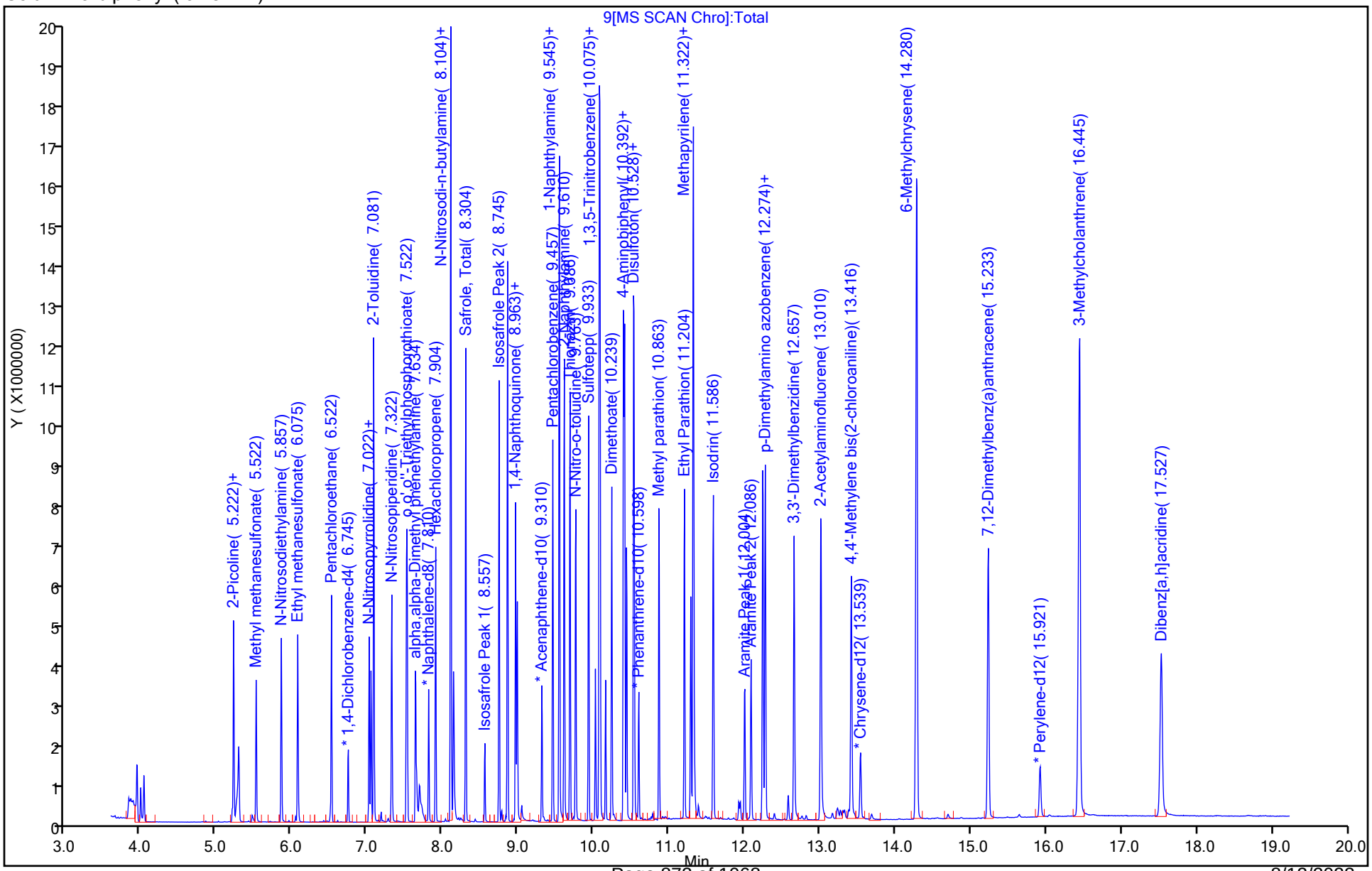
Lims ID: std8 l2lvi Worklist Smp#: 9

Client ID:

Injection Vol: 5.0 ul Dil. Factor: 1.0000 ALS Bottle#: 9

Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL

Column: 5% phenyl (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Cleveland

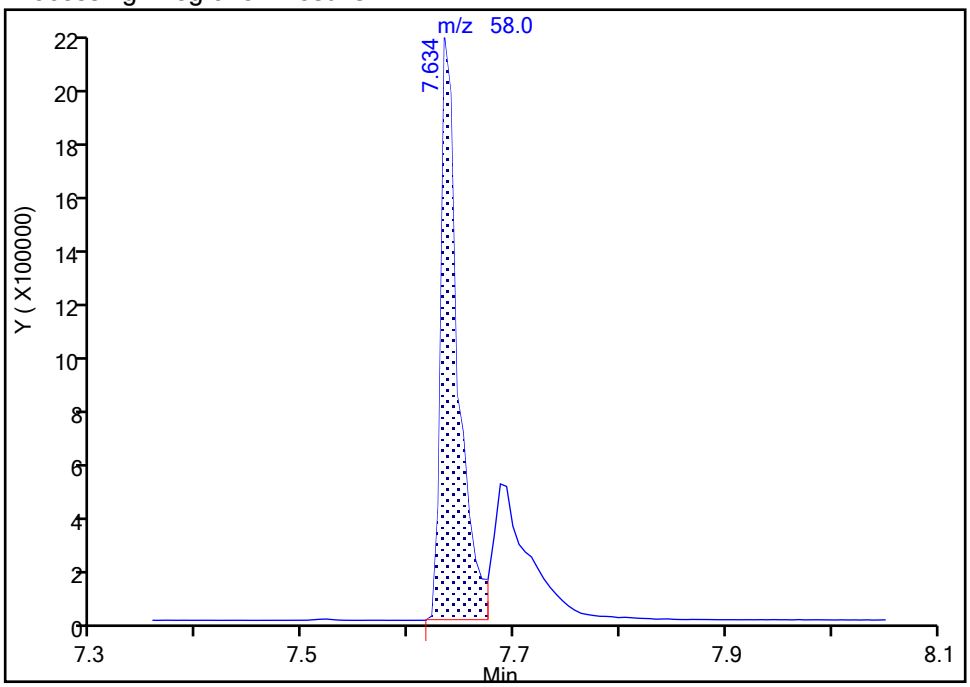
Data File:	\\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\9.D				
Injection Date:	27-Jul-2023 11:48:30	Instrument ID:	A4AG2		
Lims ID:	std8 l2lvi				
Client ID:					
Operator ID:		ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

71 alpha,alpha-Dimethyl phenethylam, CAS: 122-09-8

Signal: 1

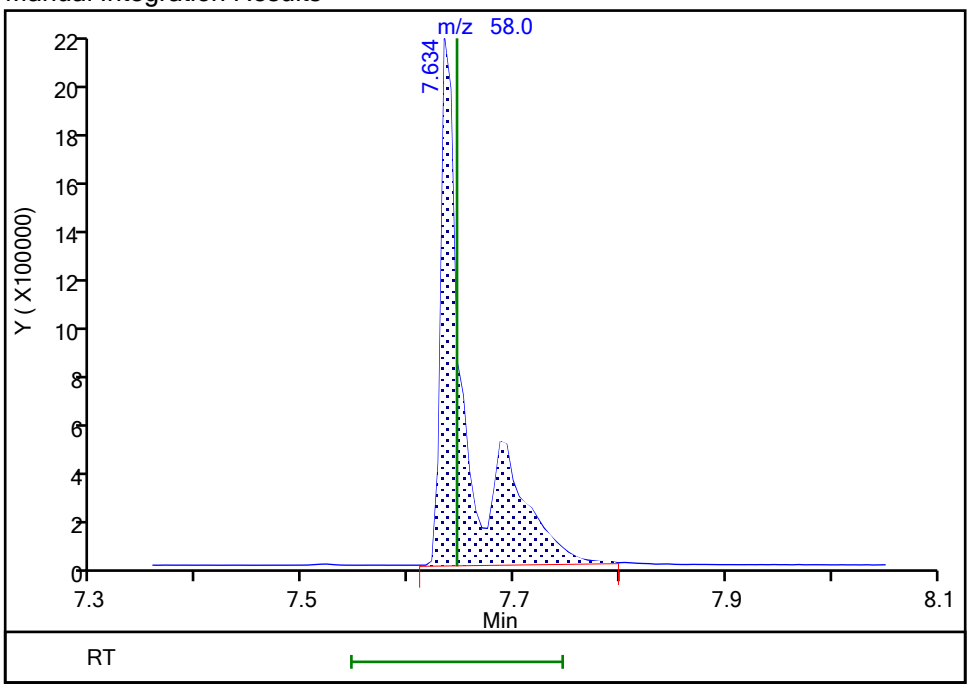
Processing Integration Results

RT: 7.63
Area: 2479199
Amount: 1545.4476
Amount Units: ng/ml



Manual Integration Results

RT: 7.63
Area: 3580287
Amount: 1980.3140
Amount Units: ng/ml



Reviewer: KDZ4, 27-Jul-2023 12:14:24 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Poor chromatography

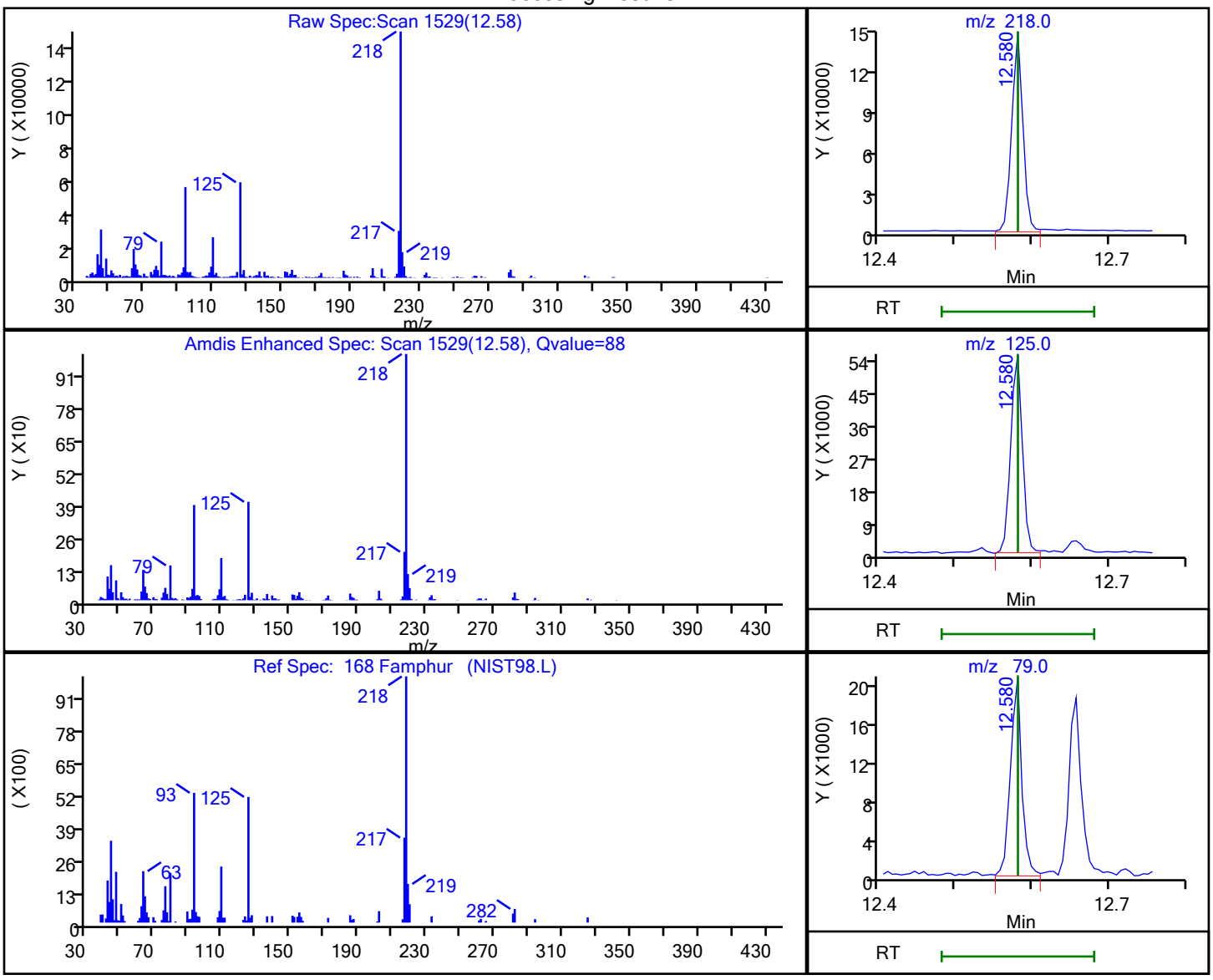
User Disabled Compound Report

Eurofins Cleveland

Data File:	\\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\9.D				
Injection Date:	27-Jul-2023 11:48:30	Instrument ID:	A4AG2		
Lims ID:	std8 l2lvi				
Client ID:					
Operator ID:		ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

168 Famphur, CAS: 52-85-7

Processing Results



RT	Mass	Response	Amount
12.58	218.00	143350	551.4100
12.58	125.00	59222	
12.58	79.00	20909	

Reviewer: KDZ4, 27-Jul-2023 12:14:48 -04:00:00 (UTC)

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

Eurofins Cleveland
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\10.D
Lims ID: std9 l2lvi
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 27-Jul-2023 12:11:30 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 240-0131856-010
Misc. Info.: STD9 L2LVI
Operator ID: Instrument ID: A4AG2
Sublist: chrom-LVI AG2 8270*sub21

Method: \\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\LVI AG2 8270.m
Limit Group: MSS 8270D ICAL
Last Update: 27-Jul-2023 15:53:00 Calib Date: 27-Jul-2023 12:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\10.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: CTX1652

First Level Reviewer: KDZ4 Date: 27-Jul-2023 12:49:55

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.740	6.746	-0.006	97	252054	400.0	400.0	
* 2 Naphthalene-d8	136	7.810	7.816	-0.006	99	1232793	400.0	400.0	
* 3 Acenaphthene-d10	164	9.310	9.316	-0.006	94	623800	400.0	400.0	
* 4 Phenanthrene-d10	188	10.598	10.598	0.000	97	953934	400.0	400.0	
* 5 Chrysene-d12	240	13.539	13.539	0.000	97	635464	400.0	400.0	
* 6 Perylene-d12	264	15.921	15.921	0.000	94	608831	400.0	400.0	
31 2-Picoline	93	5.222	5.228	-0.006	95	1823452	2500.0	2590.3	
32 N-Nitrosomethylethylamine	88	5.293	5.293	0.000	91	1111594	2500.0	2371.6	
34 Methyl methanesulfonate	80	5.522	5.522	0.000	85	1166553	2500.0	2203.0	
36 N-Nitrosodiethylamine	102	5.857	5.857	0.000	93	1172403	2500.0	2355.5	
37 Ethyl methanesulfonate	79	6.075	6.075	0.000	98	1697536	2500.0	2253.3	
46 Pentachloroethane	167	6.522	6.522	0.000	97	654867	2500.0	2616.5	
56 N-Nitrosopyrrolidine	100	7.022	7.022	0.000	97	1300170	2500.0	2589.9	
59 N-Nitrosomorpholine	56	7.046	7.046	0.000	90	1340011	2500.0	2440.9	
60 2-Toluidine	106	7.081	7.087	-0.006	96	3843116	2500.0	2478.1	
63 N-Nitrosopiperidine	114	7.322	7.322	0.000	88	1313401	2500.0	2505.0	
68 o,o',o''-Triethylphosphorothioat	198	7.516	7.534	-0.018	87	998690	2500.0	2359.4	
71 alpha,alpha-Dimethyl phenethylam	58		7.645				ND	ND	MU
77 Hexachloropropene	213	7.904	7.910	-0.006	92	1111015	2500.0	2596.2	
82 N-Nitrosodi-n-butylamine	84	8.104	8.110	-0.006	59	1548981	2500.0	2343.8	
81 Quinoline	129	8.104	8.110	-0.006	98	4899599	2500.0	2335.4	
84 p-Phenylene diamine	108	8.140	8.145	-0.005	99	1750561	2500.0	2440.3	
92 Safrole, Total	162	8.304	8.310	-0.006	94	1932864	2500.0	2412.5	
95 Isosafrole Peak 1	162	8.551	8.557	-0.006	92	339414	400.0	398.9	
91 Isosafrole Peak 2	162	8.745	8.745	0.000	95	1953311	2100.0	2263.7	
102 1,4-Naphthoquinone	158	8.963	8.963	0.000	93	1570349	2500.0	2531.2	
105 1,4-Dinitrobenzene	168	8.987	8.987	0.000	91	748762	2500.0	2598.4	
114 Pentachlorobenzene	250	9.457	9.457	0.000	98	1407680	2500.0	2503.3	
117 1-Naphthylamine	143	9.545	9.545	0.000	99	4152938	2500.0	2301.8	
116 2,3,5,6-Tetrachlorophenol	232	9.545	9.545	0.000	93	815271	NC	NC	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
119 2-Naphthylamine	143	9.610	9.610	0.000	97	4211181	2500.0	2205.7	
121 Thionazin	97	9.687	9.687	0.000	84	1092151	2500.0	2394.5	
123 N-Nitro-o-toluidine	152	9.763	9.763	0.000	97	1498987	2500.0	2821.4	
132 Sulfotepp	202	9.934	9.934	0.000	79	519693	2500.0	2669.6	
133 1,3,5-Trinitrobenzene	213	10.022	10.022	0.000	84	404796	2500.0	2494.3	
134 Diallate Peak 1	86	10.069	10.075	-0.006	93	1640432	1850.0	1745.2	
135 Phenacetin	108	10.081	10.075	0.006	93	2280644	2500.0	2423.2	
136 Phorate	121	10.087	10.087	0.001	96	1043579	2500.0	2424.6	
137 Diallate Peak 2	86	10.157	10.163	-0.006	94	605916	650.0	665.2	
139 Dimethoate	87	10.239	10.239	0.000	98	1810564	2500.0	2364.1	
142 4-Aminobiphenyl	169	10.392	10.398	-0.006	89	4977100	2500.0	2781.2	
144 Pronamide	173	10.410	10.410	0.000	90	2024290	2500.0	2730.0	
145 Pentachloronitrobenzene	237	10.439	10.439	0.000	85	423769	2500.0	2827.0	
146 Disulfoton	88	10.528	10.534	-0.006	95	2728762	2500.0	2472.0	
147 Dinoseb	211	10.539	10.539	0.000	95	940796	2500.0	2490.8	
152 Methyl parathion	109	10.869	10.869	0.000	90	1528556	2500.0	2422.5	
155 Ethyl Parathion	97	11.204	11.204	0.000	84	988208	2500.0	2505.3	
156 4-Nitroquinoline-1-oxide	190	11.292	11.286	0.006	95	562503	2500.0	2482.8	
157 Methapyrilene	58	11.322	11.322	0.000	98	6388930	5000.0	4631.8	
158 Isodrin	66	11.586	11.586	0.000	92	648166	2500.0	2352.7	
162 Aramite Peak 1	185	12.004	12.004	0.000	0	291426	1200.0	1246.4	
163 Aramite Peak 2	185	12.086	12.086	0.000	0	408952	1300.0	1338.3	
164 p-Dimethylamino azobenzene	225	12.245	12.245	0.000	89	1255576	2500.0	2511.1	
165 Chlorobenzilate	139	12.275	12.275	0.000	85	2337385	2500.0	2712.9	
168 Famphur	218		12.580				ND	ND	U
170 3,3'-Dimethylbenzidine	212	12.657	12.657	0.000	99	3243122	2500.0	2515.5	
172 2-Acetylaminofluorene	181	13.016	13.010	0.006	95	2665513	2500.0	2651.1	
175 4,4'-Methylene bis(2-chloroanil	231	13.416	13.416	0.000	95	1066537	2500.0	2580.2	
180 6-Methylchrysene	242	14.286	14.280	0.006	99	8175380	5000.0	5199.1	
182 7,12-Dimethylbenz(a)anthracene	256	15.233	15.233	0.000	93	2352064	2500.0	2871.1	
186 3-Methylcholanthrene	268	16.451	16.439	0.012	95	5965536	5000.0	5777.2	
188 Dibenz[a,h]acridine	279	17.533	17.521	0.012	93	3870010	2500.0	2584.2	
S 194 Isosafrole	162				0		2500.0	2662.6	
S 195 Diallate	86				0		2500.0	2410.4	
S 196 Aramite, Total	185				0		2500.0	2584.8	

QC Flag Legend

Processing Flags
- NC - Not Calibrated
- ND - Not Detected or Marked ND

Review Flags
- M - Manually Integrated
- U - Marked Undetected

Reagents:

SMLIST2 L9 W_00030 Amount Added: 0.10 Units: mL

Report Date: 27-Jul-2023 15:53:01 Chrom Revision: 2.3 19-Jul-2023 18:28:48

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\10.D

Injection Date: 27-Jul-2023 12:11:30 Instrument ID: A4AG2 Operator ID:

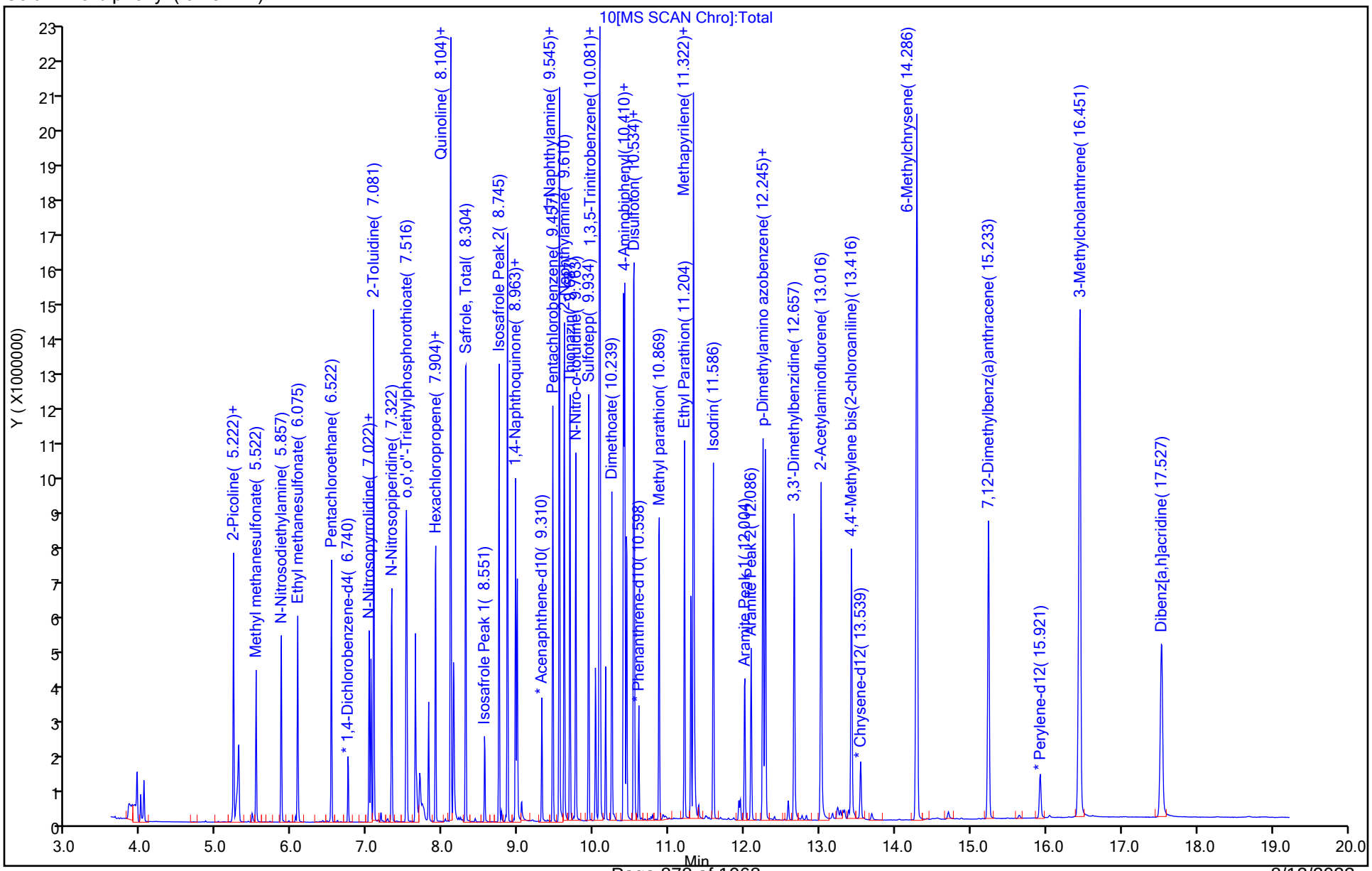
Lims ID: std9 l2lvi Worklist Smp#: 10

Client ID:

Injection Vol: 5.0 ul Dil. Factor: 1.0000 ALS Bottle#: 10

Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL

Column: 5% phenyl (0.18 mm)



8/12/2023
10:47 AM

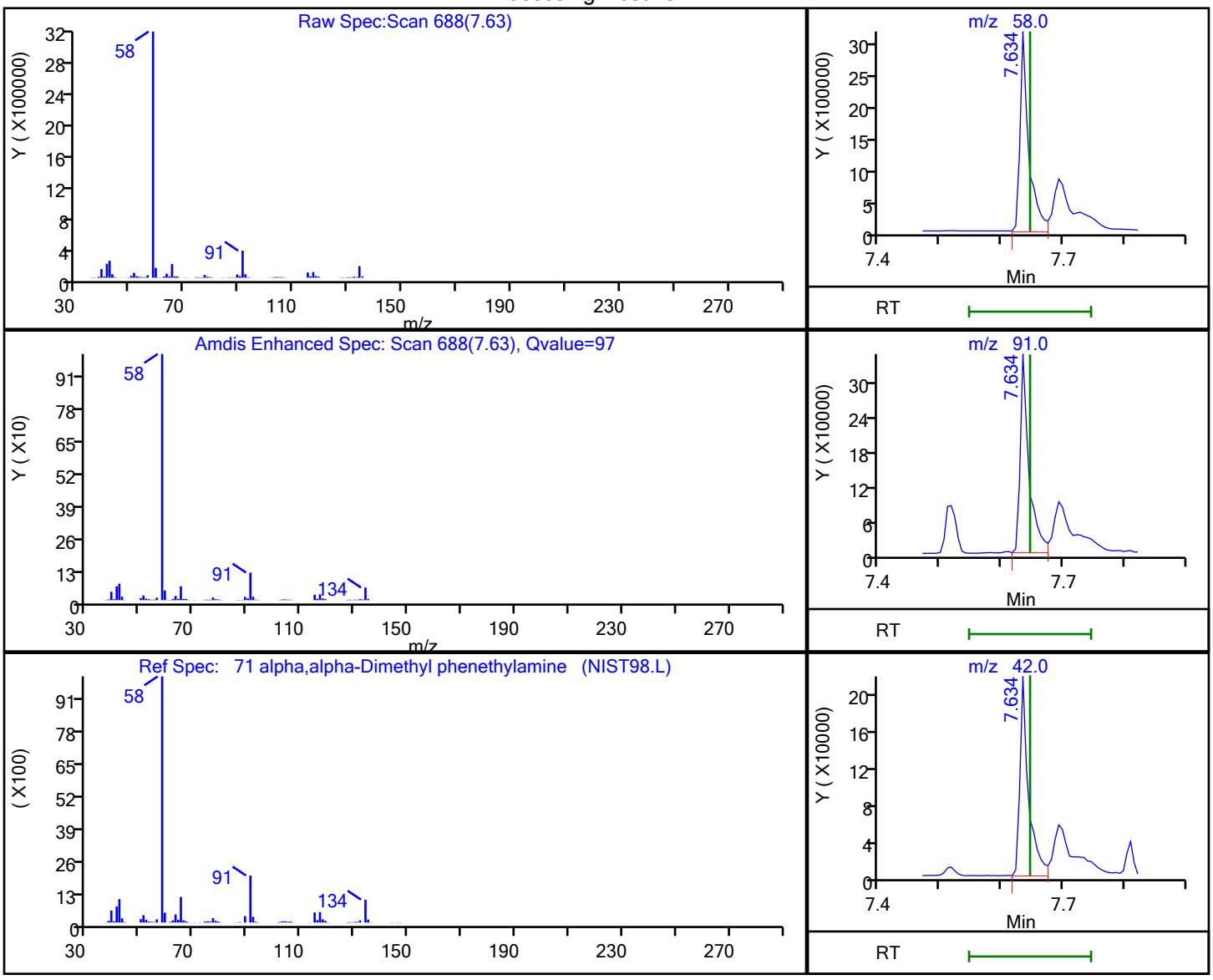
User Disabled Compound Report

Eurofins Cleveland

Data File:	\\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\10.D				
Injection Date:	27-Jul-2023 12:11:30	Instrument ID:	A4AG2		
Lims ID:	std9 l2lvi				
Client ID:					
Operator ID:		ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

71 alpha,alpha-Dimethyl phenethylamine, CAS: 122-09-8

Processing Results



RT	Mass	Response	Amount
7.63	58.00	3125508	1867.6143
7.63	91.00	347613	
7.63	42.00	212889	

Reviewer: KDZ4, 27-Jul-2023 12:52:00 -04:00:00 (UTC)

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

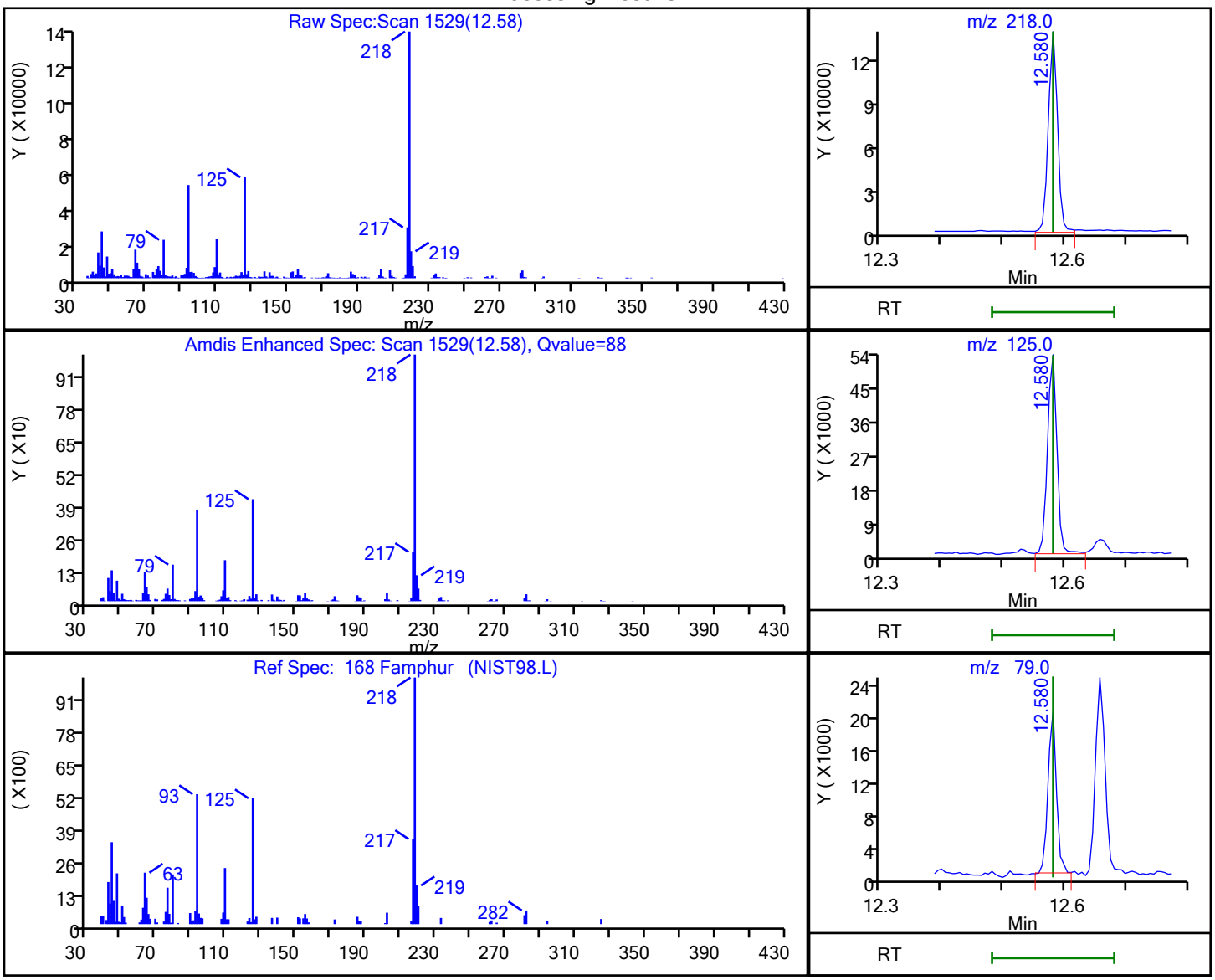
User Disabled Compound Report

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\10.D
Injection Date: 27-Jul-2023 12:11:30 Instrument ID: A4AG2
Lims ID: std9 l2lvi
Client ID:
Operator ID: ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL
Column: 5% phenyl (0.18 mm) Detector MS SCAN

168 Famphur, CAS: 52-85-7

Processing Results



RT	Mass	Response	Amount
12.58	218.00	135100	533.1169
12.58	125.00	56976	
12.58	79.00	19122	

Reviewer: KDZ4, 27-Jul-2023 12:49:38 -04:00:00 (UTC)
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Calibration / 2-Picoline

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

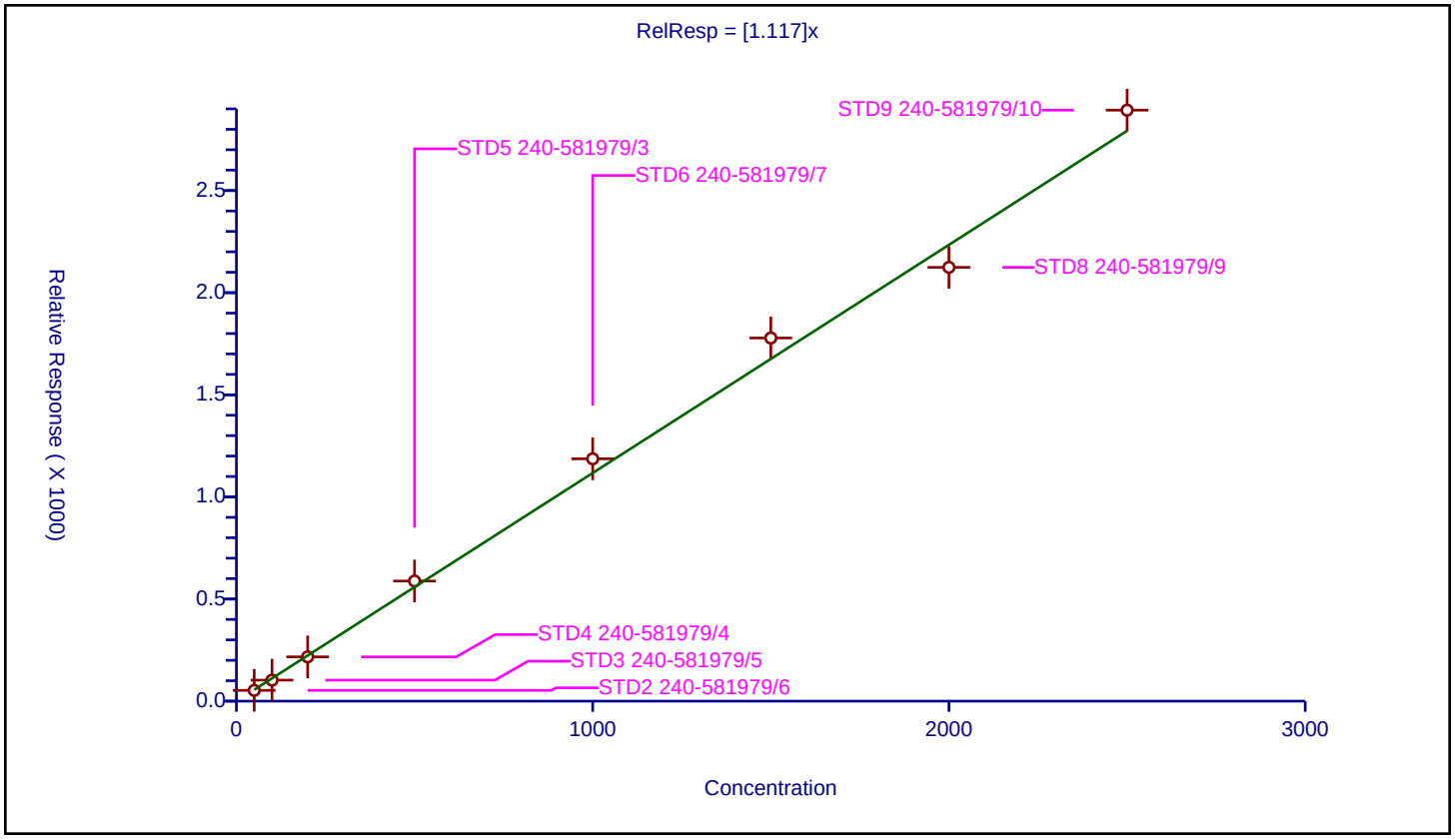
Curve Coefficients

Intercept:	0
Slope:	1.117

Error Coefficients

Standard Error:	963000
Relative Standard Error:	5.9
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581979/6	50.0	52.752776	400.0	190989.0	1.055056	Y
2	STD3 240-581979/5	100.0	102.998118	400.0	196023.0	1.029981	Y
3	STD4 240-581979/4	200.0	216.8058	400.0	231313.0	1.084029	Y
4	STD5 240-581979/3	500.0	588.243023	400.0	237459.0	1.176486	Y
5	STD6 240-581979/7	1000.0	1186.547957	400.0	207790.0	1.186548	Y
6	STD7 240-581979/8	1500.0	1778.10234	400.0	214306.0	1.185402	Y
7	STD8 240-581979/9	2000.0	2124.07984	400.0	249549.0	1.06204	Y
8	STD9 240-581979/10	2500.0	2893.748165	400.0	252054.0	1.157499	Y



8/12/2023
10:47 AM

Calibration / N-Nitrosomethylethylamine

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

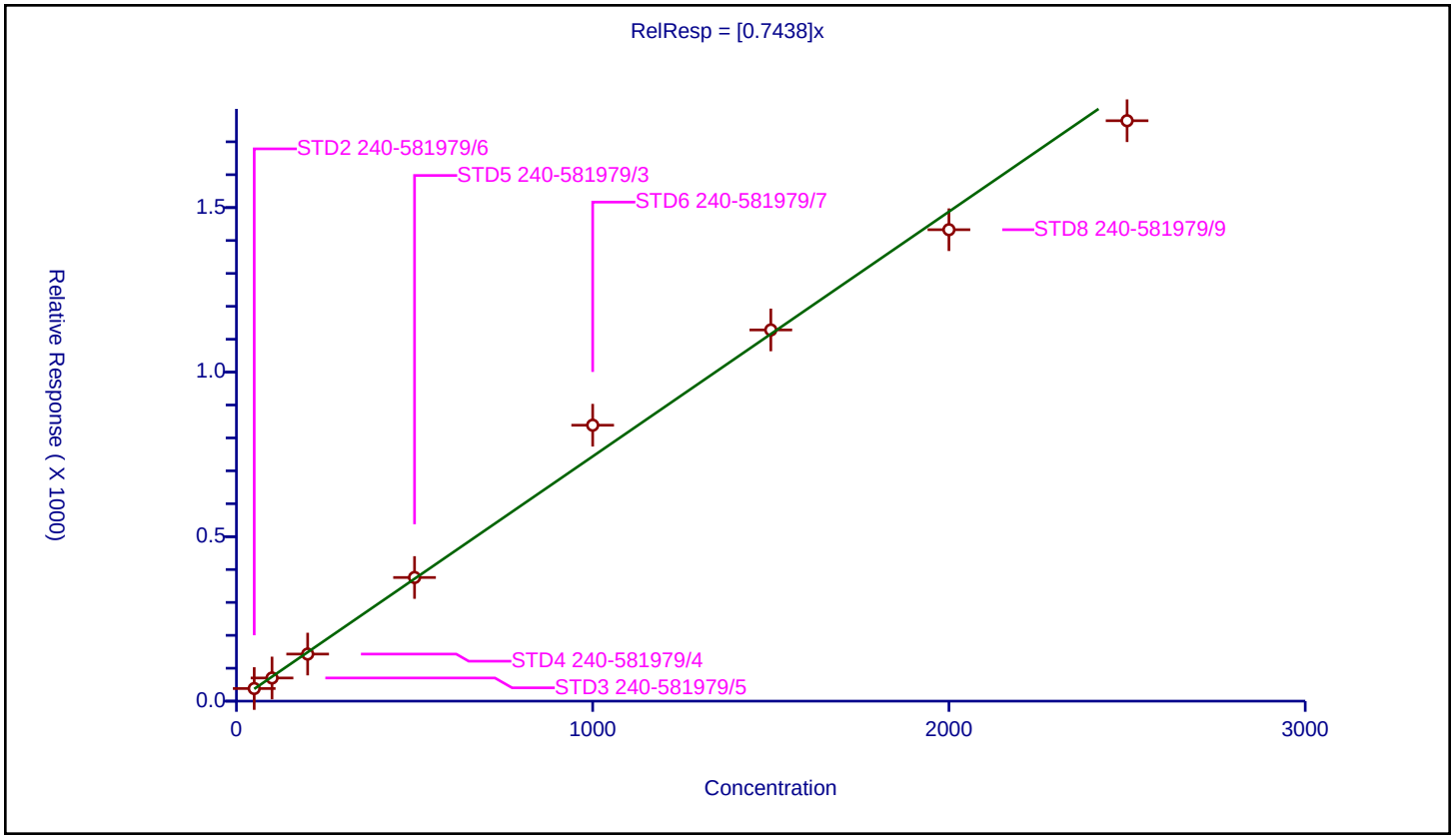
Curve Coefficients

Intercept:	0
Slope:	0.7438

Error Coefficients

Standard Error:	614000
Relative Standard Error:	6.1
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581979/6	50.0	38.331003	400.0	190989.0	0.76662	Y
2	STD3 240-581979/5	100.0	70.399902	400.0	196023.0	0.703999	Y
3	STD4 240-581979/4	200.0	143.103068	400.0	231313.0	0.715515	Y
4	STD5 240-581979/3	500.0	375.771817	400.0	237459.0	0.751544	Y
5	STD6 240-581979/7	1000.0	838.675586	400.0	207790.0	0.838676	Y
6	STD7 240-581979/8	1500.0	1128.199864	400.0	214306.0	0.752133	Y
7	STD8 240-581979/9	2000.0	1432.844051	400.0	249549.0	0.716422	Y
8	STD9 240-581979/10	2500.0	1764.056908	400.0	252054.0	0.705623	Y



Calibration / Methyl methanesulfonate

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

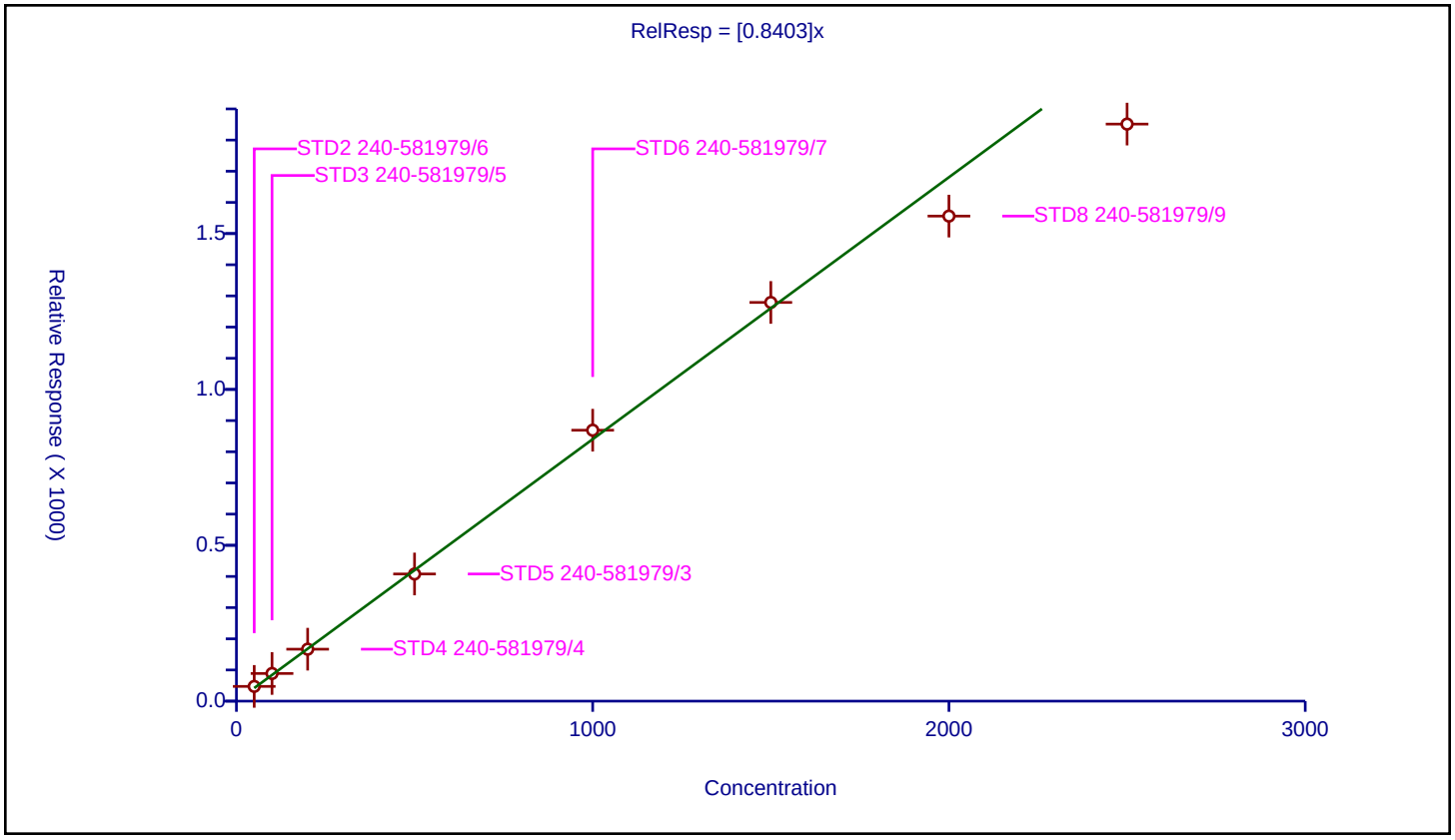
Curve Coefficients

Intercept:	0
Slope:	0.8403

Error Coefficients

Standard Error:	659000
Relative Standard Error:	7.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581979/6	50.0	47.284399	400.0	190989.0	0.945688	Y
2	STD3 240-581979/5	100.0	88.722242	400.0	196023.0	0.887222	Y
3	STD4 240-581979/4	200.0	166.667675	400.0	231313.0	0.833338	Y
4	STD5 240-581979/3	500.0	407.972745	400.0	237459.0	0.815945	Y
5	STD6 240-581979/7	1000.0	869.15251	400.0	207790.0	0.869153	Y
6	STD7 240-581979/8	1500.0	1279.032785	400.0	214306.0	0.852689	Y
7	STD8 240-581979/9	2000.0	1556.101607	400.0	249549.0	0.778051	Y
8	STD9 240-581979/10	2500.0	1851.274727	400.0	252054.0	0.74051	Y



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

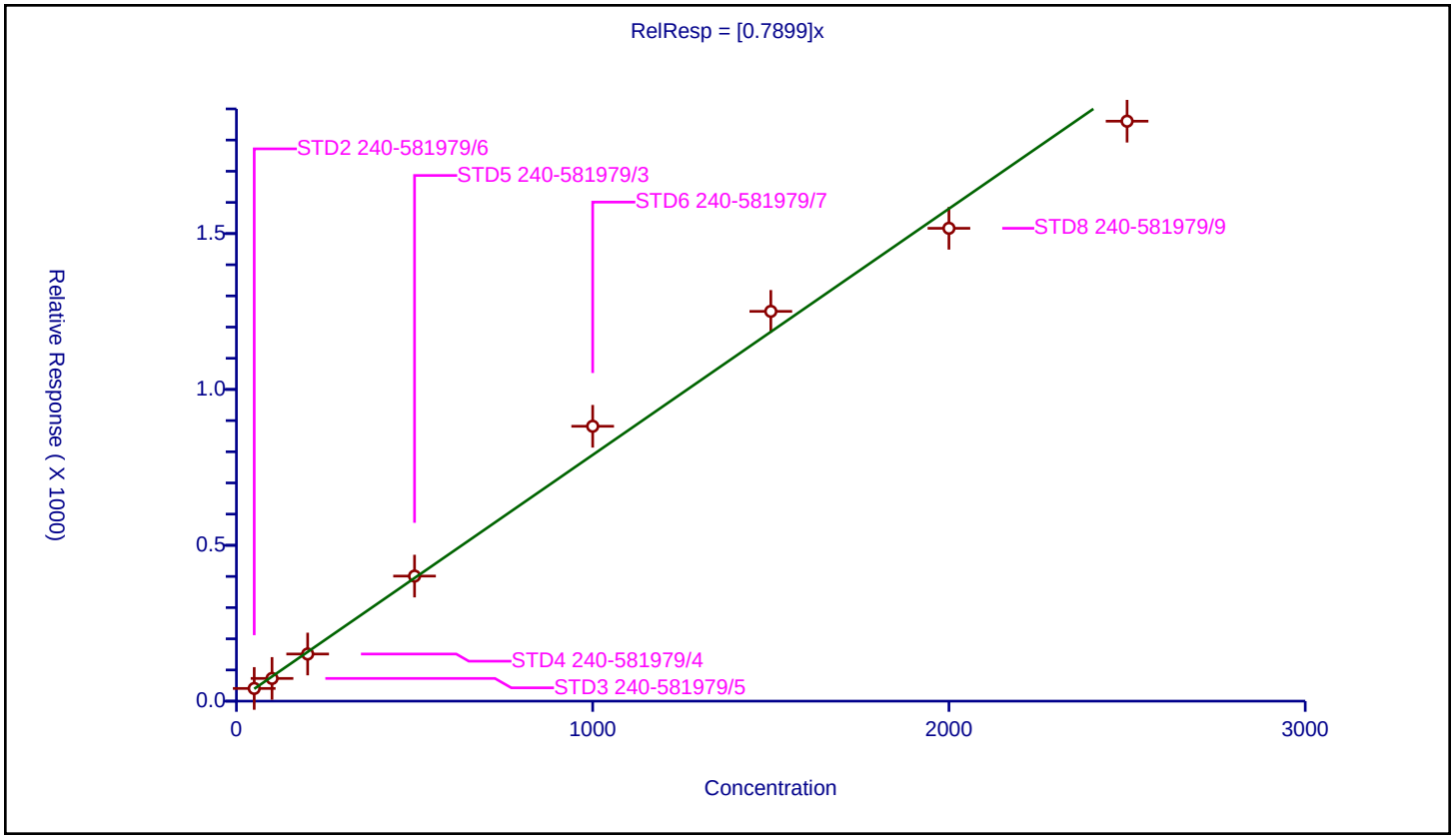
Curve Coefficients

Intercept:	0
Slope:	0.7899

Error Coefficients

Standard Error:	653000
Relative Standard Error:	6.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581979/6	50.0	40.689254	400.0	190989.0	0.813785	Y
2	STD3 240-581979/5	100.0	72.842473	400.0	196023.0	0.728425	Y
3	STD4 240-581979/4	200.0	151.228854	400.0	231313.0	0.756144	Y
4	STD5 240-581979/3	500.0	401.217894	400.0	237459.0	0.802436	Y
5	STD6 240-581979/7	1000.0	881.85187	400.0	207790.0	0.881852	Y
6	STD7 240-581979/8	1500.0	1250.45869	400.0	214306.0	0.833639	Y
7	STD8 240-581979/9	2000.0	1516.9622	400.0	249549.0	0.758481	Y
8	STD9 240-581979/10	2500.0	1860.558452	400.0	252054.0	0.744223	Y



Calibration / Ethyl methanesulfonate

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

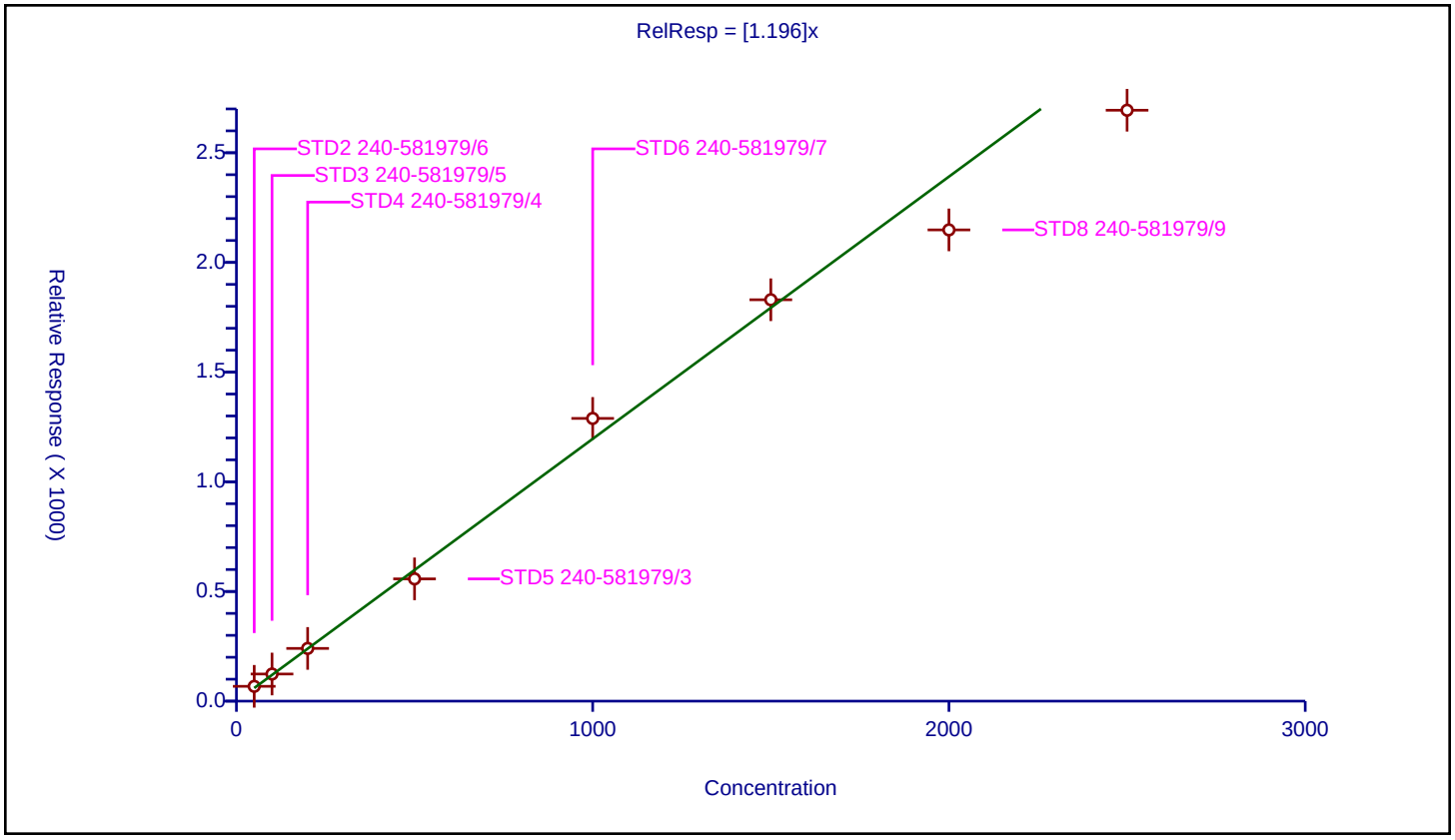
Curve Coefficients

Intercept:	0
Slope:	1.196

Error Coefficients

Standard Error:	941000
Relative Standard Error:	8.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581979/6	50.0	67.509647	400.0	190989.0	1.350193	Y
2	STD3 240-581979/5	100.0	123.683445	400.0	196023.0	1.236834	Y
3	STD4 240-581979/4	200.0	240.404992	400.0	231313.0	1.202025	Y
4	STD5 240-581979/3	500.0	557.409911	400.0	237459.0	1.11482	Y
5	STD6 240-581979/7	1000.0	1288.893594	400.0	207790.0	1.288894	Y
6	STD7 240-581979/8	1500.0	1829.856374	400.0	214306.0	1.219904	Y
7	STD8 240-581979/9	2000.0	2148.334796	400.0	249549.0	1.074167	Y
8	STD9 240-581979/10	2500.0	2693.924318	400.0	252054.0	1.07757	Y



Calibration / Pentachloroethane

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

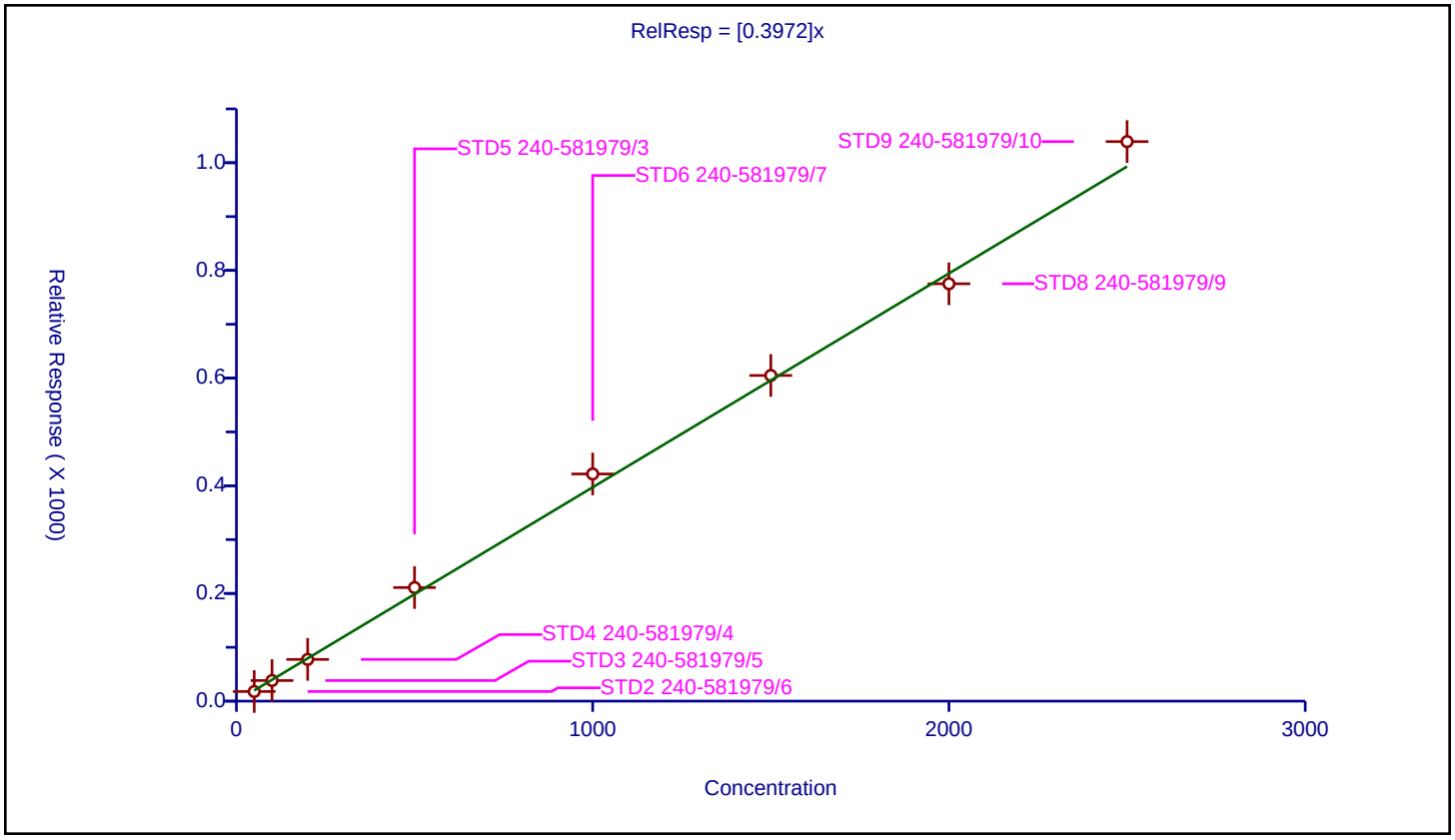
Curve Coefficients

Intercept:	0
Slope:	0.3972

Error Coefficients

Standard Error:	345000
Relative Standard Error:	5.7
Correlation Coefficient:	0.990
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581979/6	50.0	17.85862	400.0	190989.0	0.357172	Y
2	STD3 240-581979/5	100.0	38.248573	400.0	196023.0	0.382486	Y
3	STD4 240-581979/4	200.0	77.493267	400.0	231313.0	0.387466	Y
4	STD5 240-581979/3	500.0	210.977053	400.0	237459.0	0.421954	Y
5	STD6 240-581979/7	1000.0	421.918283	400.0	207790.0	0.421918	Y
6	STD7 240-581979/8	1500.0	604.85474	400.0	214306.0	0.403236	Y
7	STD8 240-581979/9	2000.0	775.203267	400.0	249549.0	0.387602	Y
8	STD9 240-581979/10	2500.0	1039.248732	400.0	252054.0	0.415699	Y



Calibration / N-Nitrosopyrrolidine

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

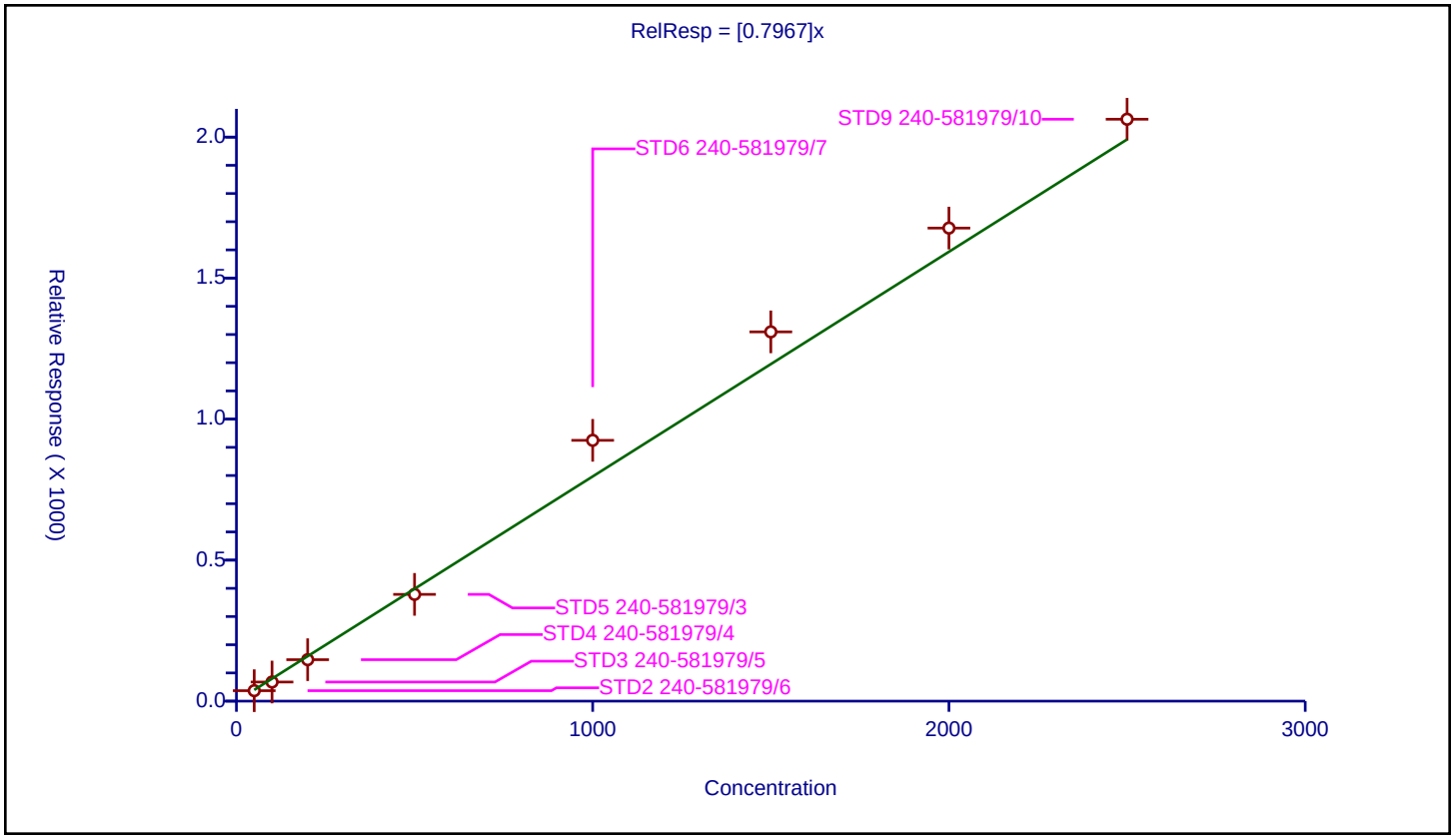
Curve Coefficients

Intercept:	0
Slope:	0.7967

Error Coefficients

Standard Error:	713000
Relative Standard Error:	10.3
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581979/6	50.0	37.076481	400.0	190989.0	0.74153	Y
2	STD3 240-581979/5	100.0	67.787964	400.0	196023.0	0.67788	Y
3	STD4 240-581979/4	200.0	147.037132	400.0	231313.0	0.735186	Y
4	STD5 240-581979/3	500.0	378.563036	400.0	237459.0	0.757126	Y
5	STD6 240-581979/7	1000.0	924.804851	400.0	207790.0	0.924805	Y
6	STD7 240-581979/8	1500.0	1309.374446	400.0	214306.0	0.872916	Y
7	STD8 240-581979/9	2000.0	1677.403636	400.0	249549.0	0.838702	Y
8	STD9 240-581979/10	2500.0	2063.319765	400.0	252054.0	0.825328	Y



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

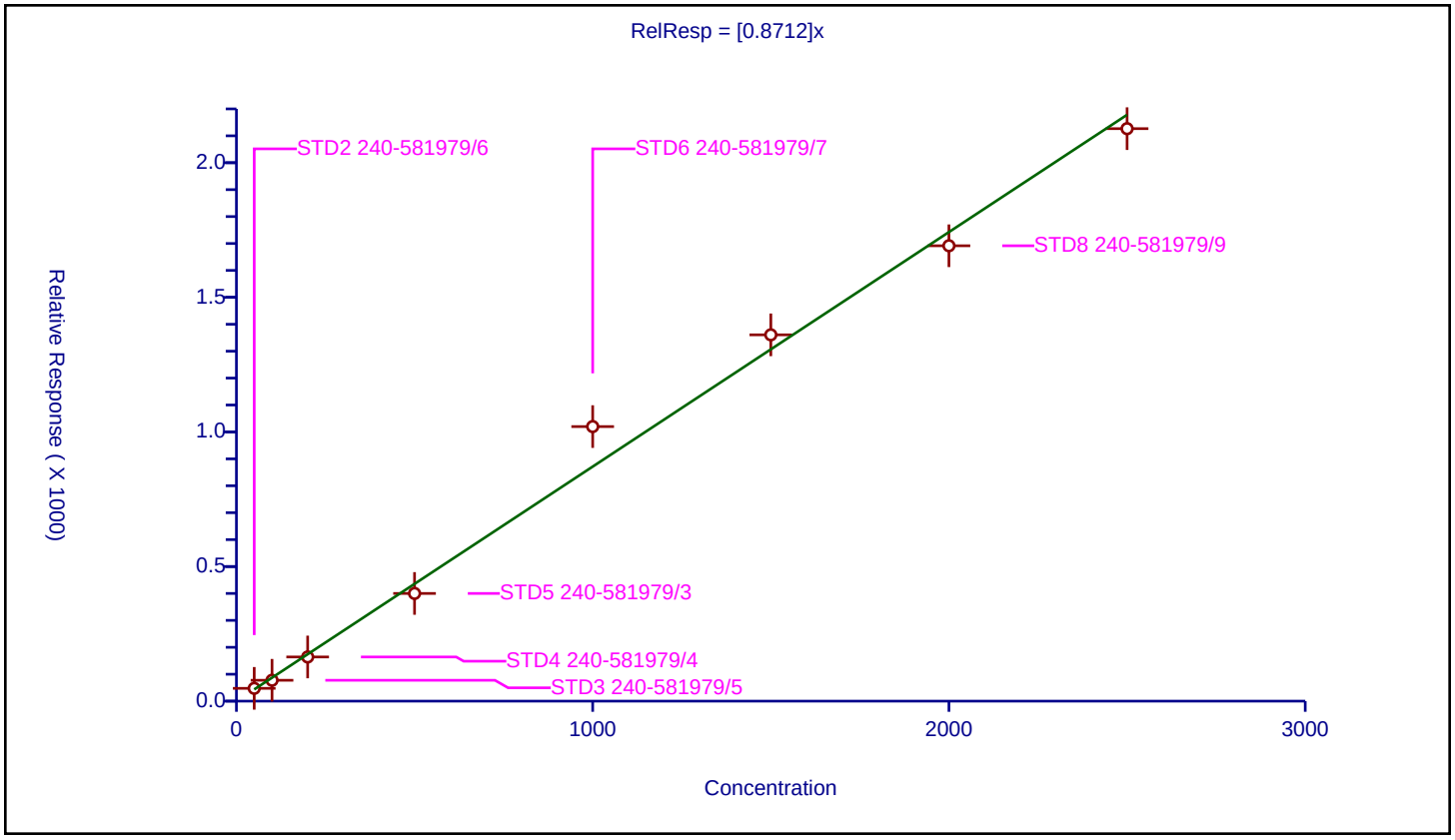
Curve Coefficients

Intercept:	0
Slope:	0.8712

Error Coefficients

Standard Error:	734000
Relative Standard Error:	9.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581979/6	50.0	47.51059	400.0	190989.0	0.950212	Y
2	STD3 240-581979/5	100.0	77.515394	400.0	196023.0	0.775154	Y
3	STD4 240-581979/4	200.0	164.132582	400.0	231313.0	0.820663	Y
4	STD5 240-581979/3	500.0	400.045482	400.0	237459.0	0.800091	Y
5	STD6 240-581979/7	1000.0	1019.916262	400.0	207790.0	1.019916	Y
6	STD7 240-581979/8	1500.0	1360.727184	400.0	214306.0	0.907151	Y
7	STD8 240-581979/9	2000.0	1691.568389	400.0	249549.0	0.845784	Y
8	STD9 240-581979/10	2500.0	2126.545899	400.0	252054.0	0.850618	Y



Calibration / 2-Toluidine

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

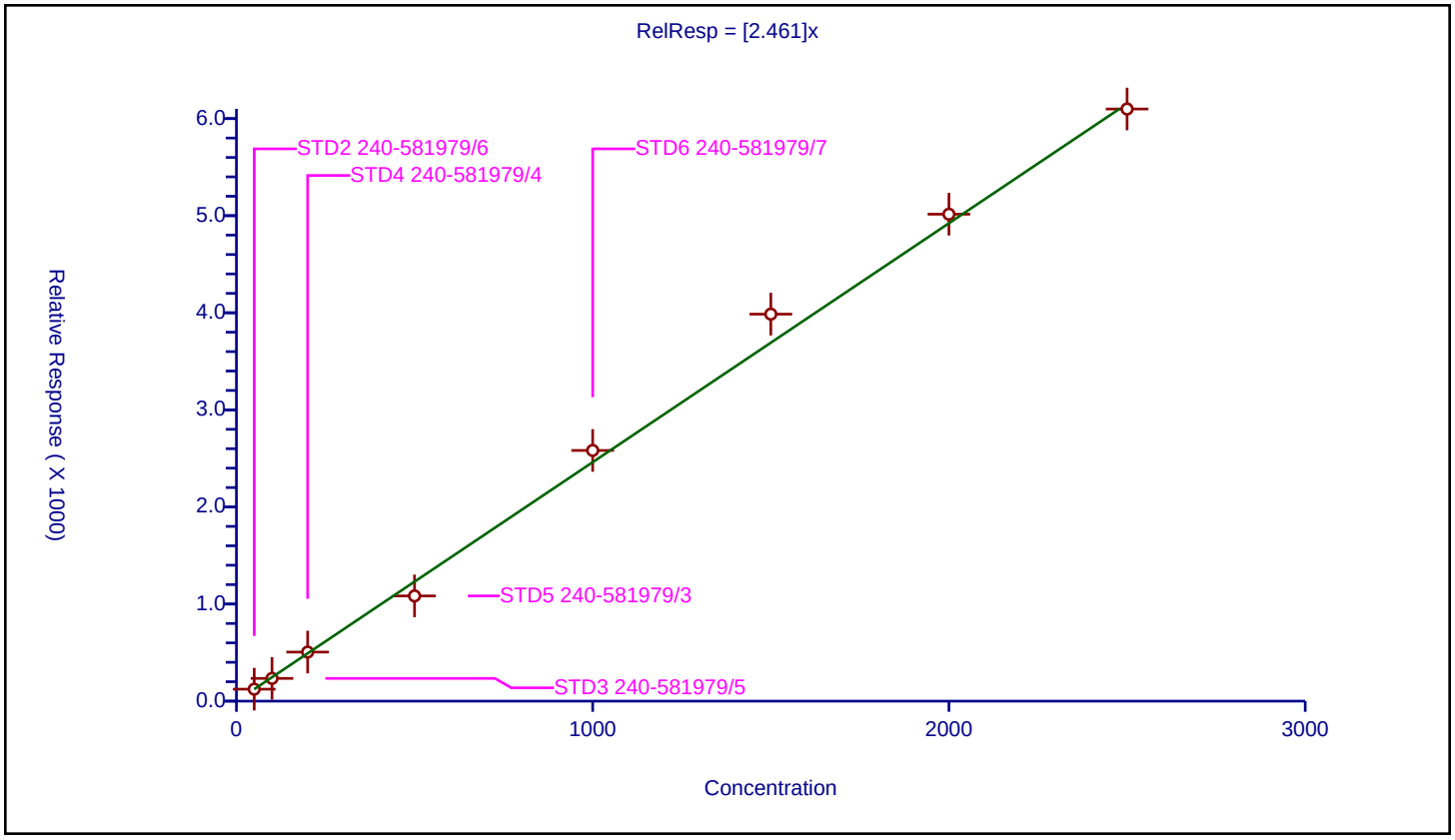
Curve Coefficients

Intercept:	0
Slope:	2.461

Error Coefficients

Standard Error:	2120000
Relative Standard Error:	6.2
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581979/6	50.0	123.286681	400.0	190989.0	2.465734	Y
2	STD3 240-581979/5	100.0	234.203129	400.0	196023.0	2.342031	Y
3	STD4 240-581979/4	200.0	505.403501	400.0	231313.0	2.527018	Y
4	STD5 240-581979/3	500.0	1083.745826	400.0	237459.0	2.167492	Y
5	STD6 240-581979/7	1000.0	2582.09731	400.0	207790.0	2.582097	Y
6	STD7 240-581979/8	1500.0	3985.956529	400.0	214306.0	2.657304	Y
7	STD8 240-581979/9	2000.0	5015.32124	400.0	249549.0	2.507661	Y
8	STD9 240-581979/10	2500.0	6098.877225	400.0	252054.0	2.439551	Y



Calibration / N-Nitrosopiperidine

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

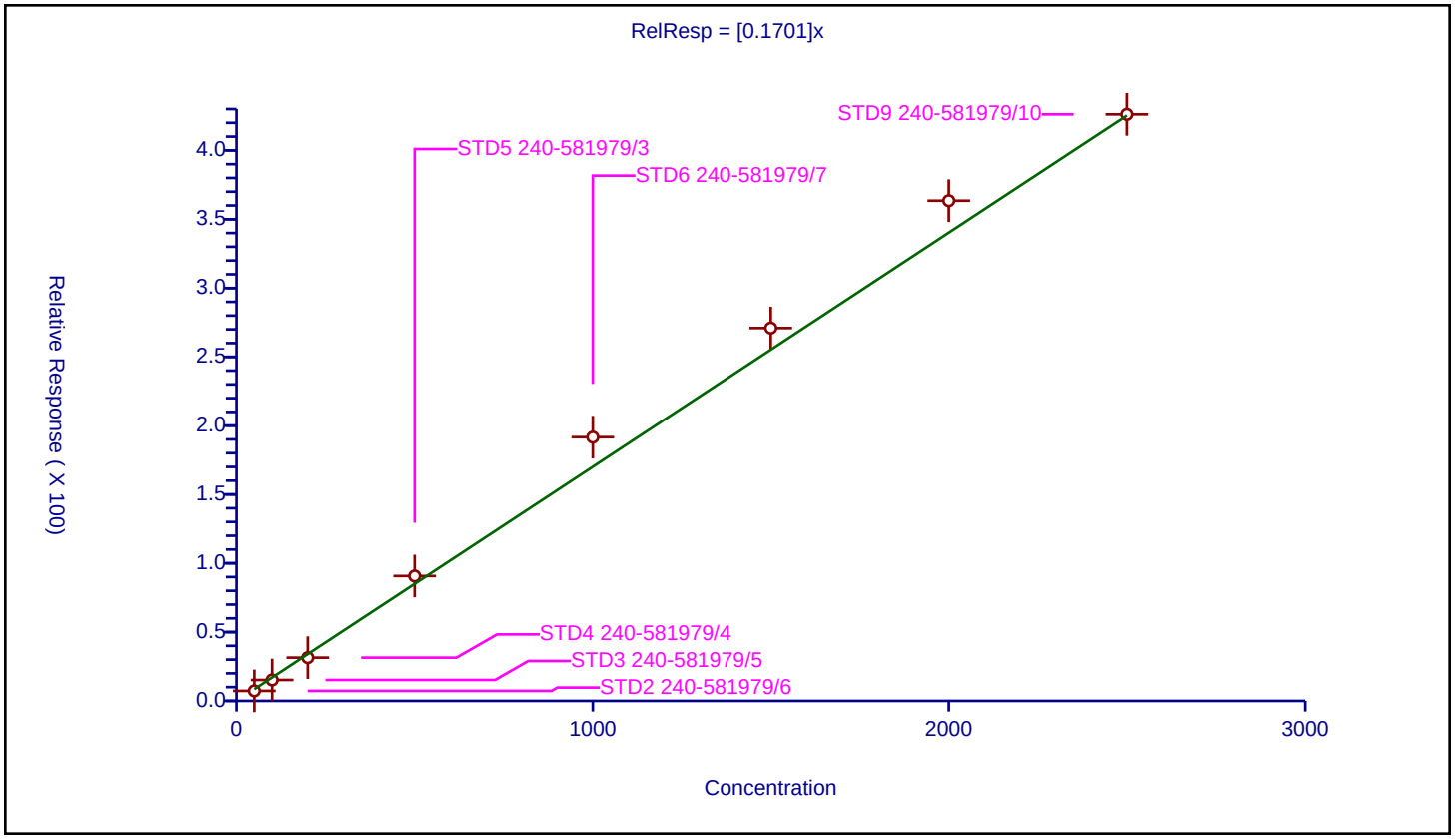
Curve Coefficients

Intercept:	0
Slope:	0.1701

Error Coefficients

Standard Error:	731000
Relative Standard Error:	9.7
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581979/6	50.0	7.287866	400.0	993981.0	0.145757	Y
2	STD3 240-581979/5	100.0	15.21172	400.0	987791.0	0.152117	Y
3	STD4 240-581979/4	200.0	31.426798	400.0	1166724.0	0.157134	Y
4	STD5 240-581979/3	500.0	90.755862	400.0	1037782.0	0.181512	Y
5	STD6 240-581979/7	1000.0	191.6388	400.0	1023609.0	0.191639	Y
6	STD7 240-581979/8	1500.0	270.94894	400.0	1078835.0	0.180633	Y
7	STD8 240-581979/9	2000.0	363.465673	400.0	1196420.0	0.181733	Y
8	STD9 240-581979/10	2500.0	426.154594	400.0	1232793.0	0.170462	Y



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

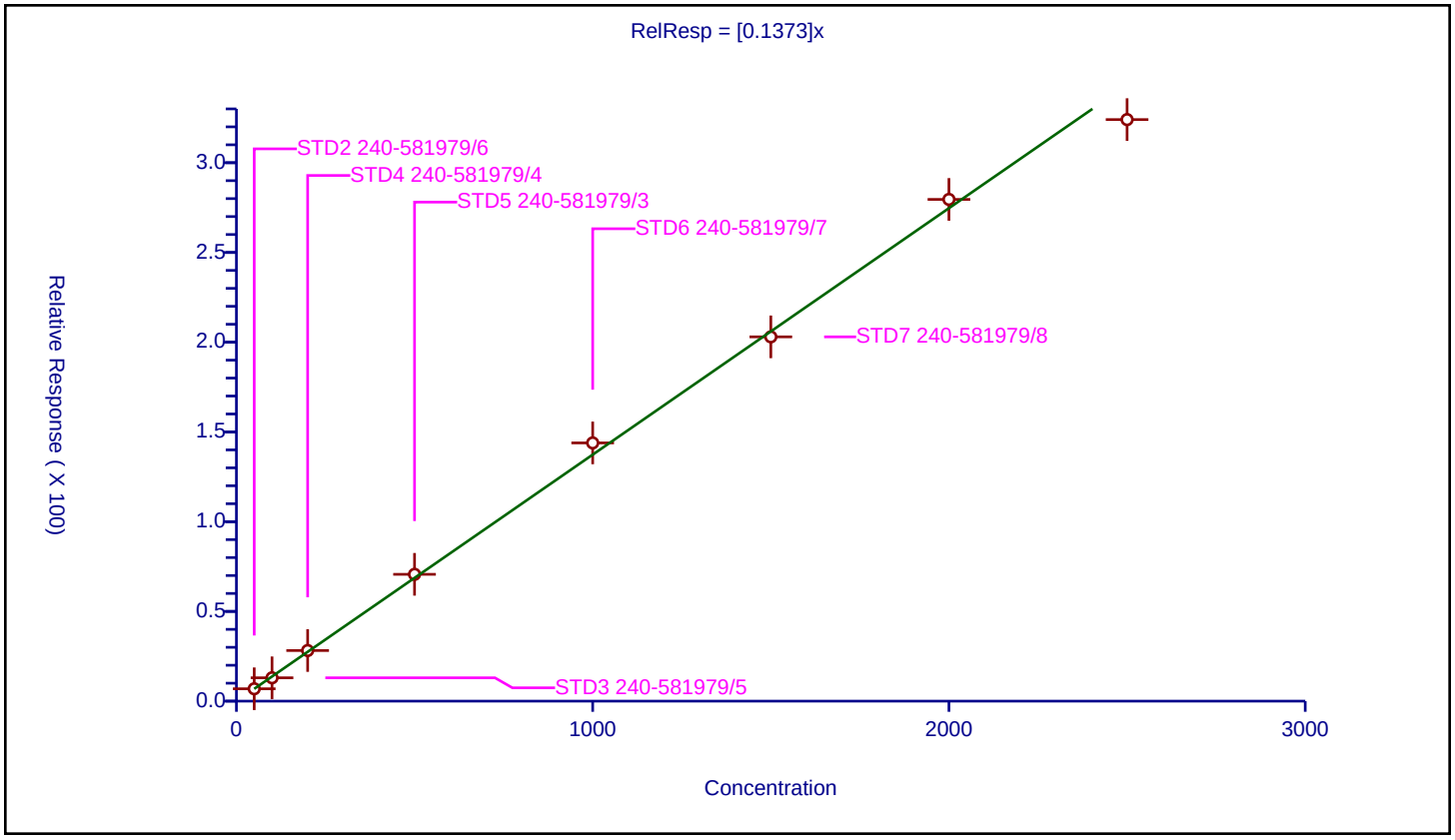
Curve Coefficients

Intercept:	0
Slope:	0.1373

Error Coefficients

Standard Error:	557000
Relative Standard Error:	3.9
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581979/6	50.0	6.886651	400.0	993981.0	0.137733	Y
2	STD3 240-581979/5	100.0	13.001941	400.0	987791.0	0.130019	Y
3	STD4 240-581979/4	200.0	28.205128	400.0	1166724.0	0.141026	Y
4	STD5 240-581979/3	500.0	70.665323	400.0	1037782.0	0.141331	Y
5	STD6 240-581979/7	1000.0	143.892053	400.0	1023609.0	0.143892	Y
6	STD7 240-581979/8	1500.0	202.979325	400.0	1078835.0	0.13532	Y
7	STD8 240-581979/9	2000.0	279.558349	400.0	1196420.0	0.139779	Y
8	STD9 240-581979/10	2500.0	324.041425	400.0	1232793.0	0.129617	Y



Calibration / alpha,alpha-Dimethyl phenethylamine

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

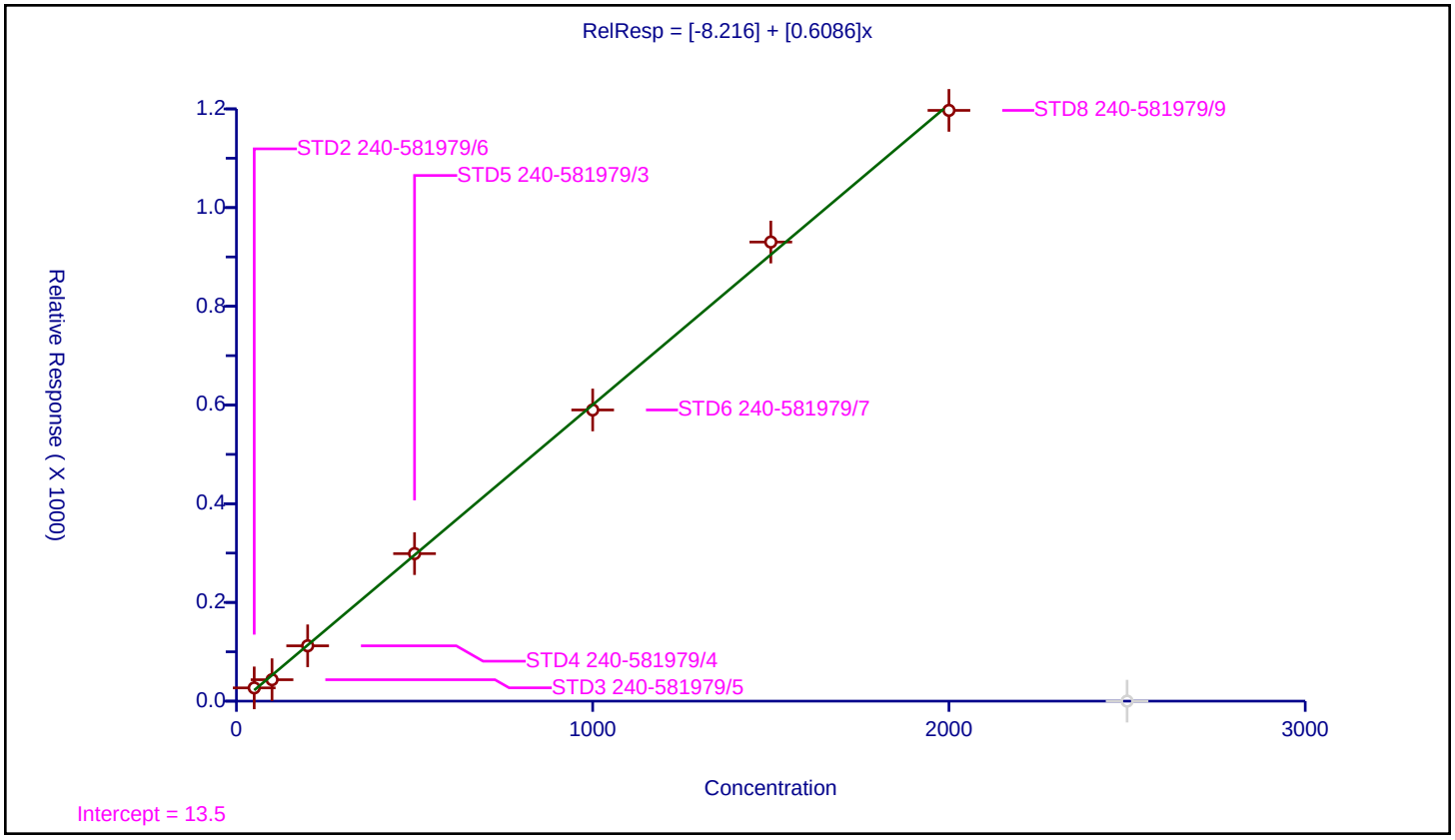
Curve Coefficients

Intercept:	-8.216
Slope:	0.6086

Error Coefficients

Standard Error:	2100000
Relative Standard Error:	9.7
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581979/6	50.0	26.846791	400.0	993981.0	0.536936	Y
2	STD3 240-581979/5	100.0	43.438744	400.0	987791.0	0.434387	Y
3	STD4 240-581979/4	200.0	112.133118	400.0	1166724.0	0.560666	Y
4	STD5 240-581979/3	500.0	298.899769	400.0	1037782.0	0.5978	Y
5	STD6 240-581979/7	1000.0	589.950655	400.0	1023609.0	0.589951	Y
6	STD7 240-581979/8	1500.0	930.219357	400.0	1078835.0	0.620146	Y
7	STD8 240-581979/9	2000.0	1197.00005	400.0	1196420.0	0.5985	Y
8	STD9 240-581979/10	2500.0	0.0	400.0	1232793.0	0.0	N



8/12/2023
10:47 AM

Calibration / Hexachloropropene

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

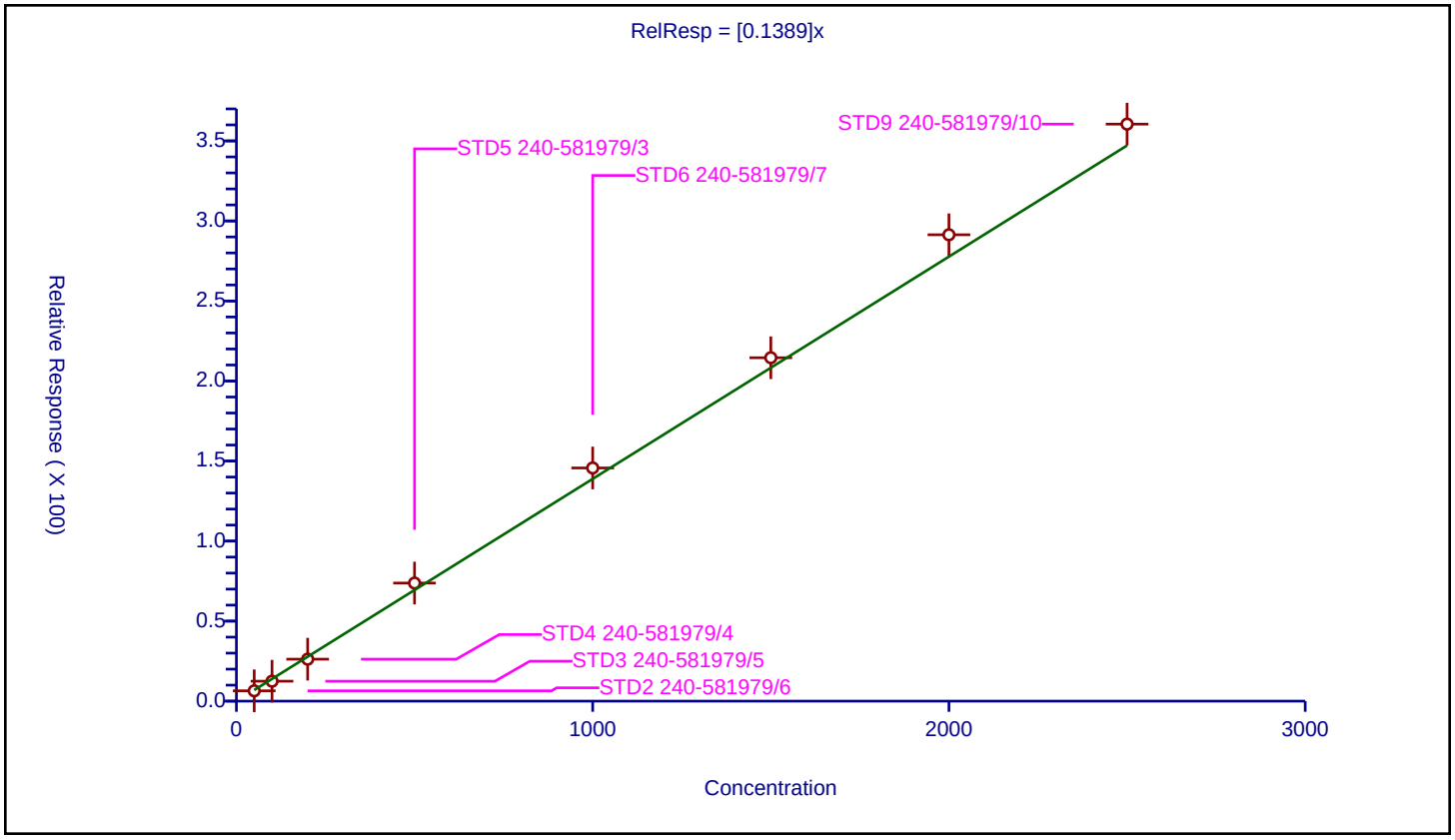
Curve Coefficients

Intercept:	0
Slope:	0.1389

Error Coefficients

Standard Error:	599000
Relative Standard Error:	6.5
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581979/6	50.0	6.452035	400.0	993981.0	0.129041	Y
2	STD3 240-581979/5	100.0	12.456076	400.0	987791.0	0.124561	Y
3	STD4 240-581979/4	200.0	26.220769	400.0	1166724.0	0.131104	Y
4	STD5 240-581979/3	500.0	73.770407	400.0	1037782.0	0.147541	Y
5	STD6 240-581979/7	1000.0	145.673983	400.0	1023609.0	0.145674	Y
6	STD7 240-581979/8	1500.0	214.531787	400.0	1078835.0	0.143021	Y
7	STD8 240-581979/9	2000.0	291.356213	400.0	1196420.0	0.145678	Y
8	STD9 240-581979/10	2500.0	360.487122	400.0	1232793.0	0.144195	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

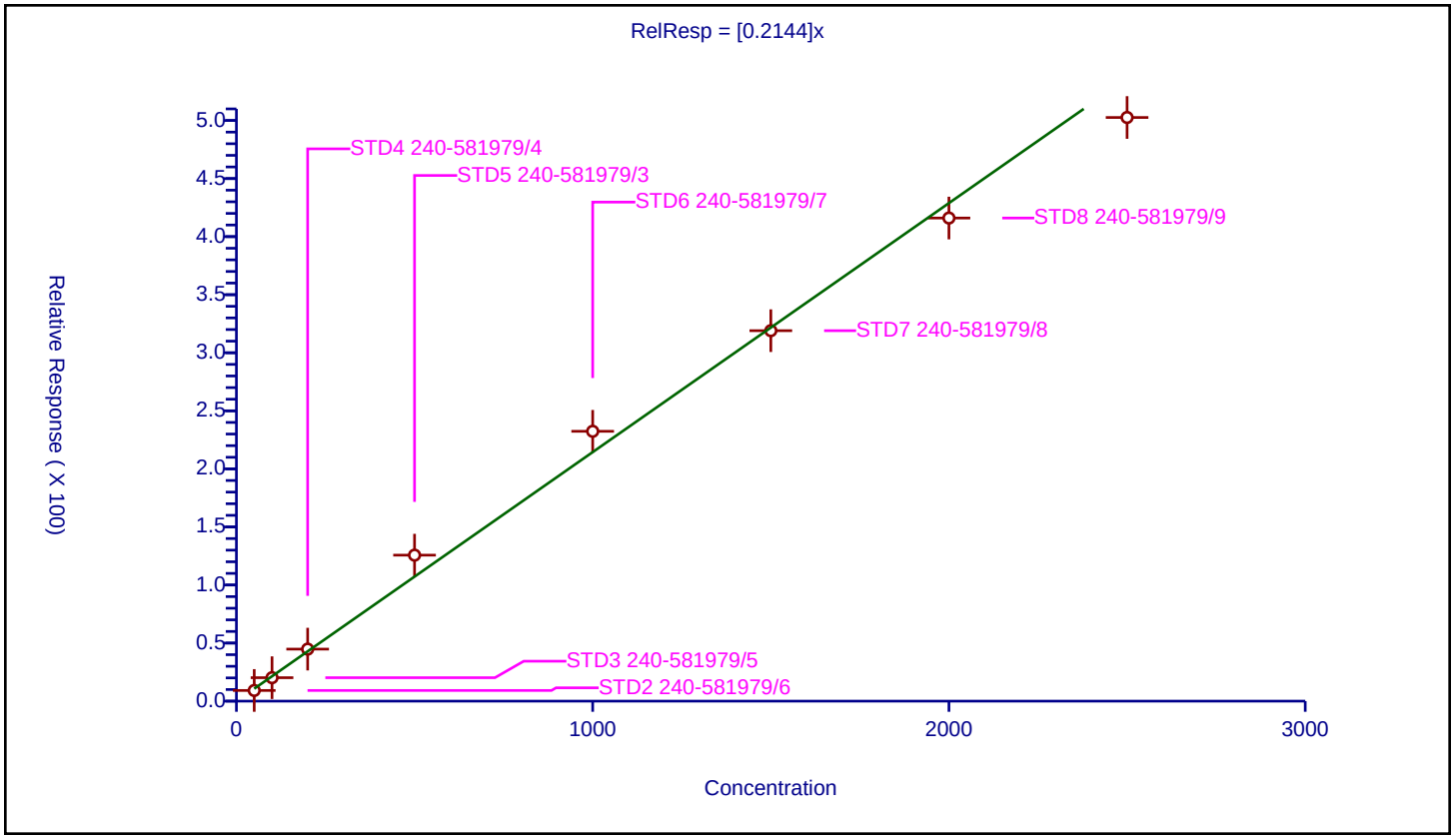
Curve Coefficients

Intercept:	0
Slope:	0.2144

Error Coefficients

Standard Error:	859000
Relative Standard Error:	9.8
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581979/6	50.0	9.196956	400.0	993981.0	0.183939	Y
2	STD3 240-581979/5	100.0	20.201034	400.0	987791.0	0.20201	Y
3	STD4 240-581979/4	200.0	44.800313	400.0	1166724.0	0.224002	Y
4	STD5 240-581979/3	500.0	125.730452	400.0	1037782.0	0.251461	Y
5	STD6 240-581979/7	1000.0	232.36646	400.0	1023609.0	0.232366	Y
6	STD7 240-581979/8	1500.0	319.014863	400.0	1078835.0	0.212677	Y
7	STD8 240-581979/9	2000.0	416.013106	400.0	1196420.0	0.208007	Y
8	STD9 240-581979/10	2500.0	502.592406	400.0	1232793.0	0.201037	Y



Calibration / Quinoline

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

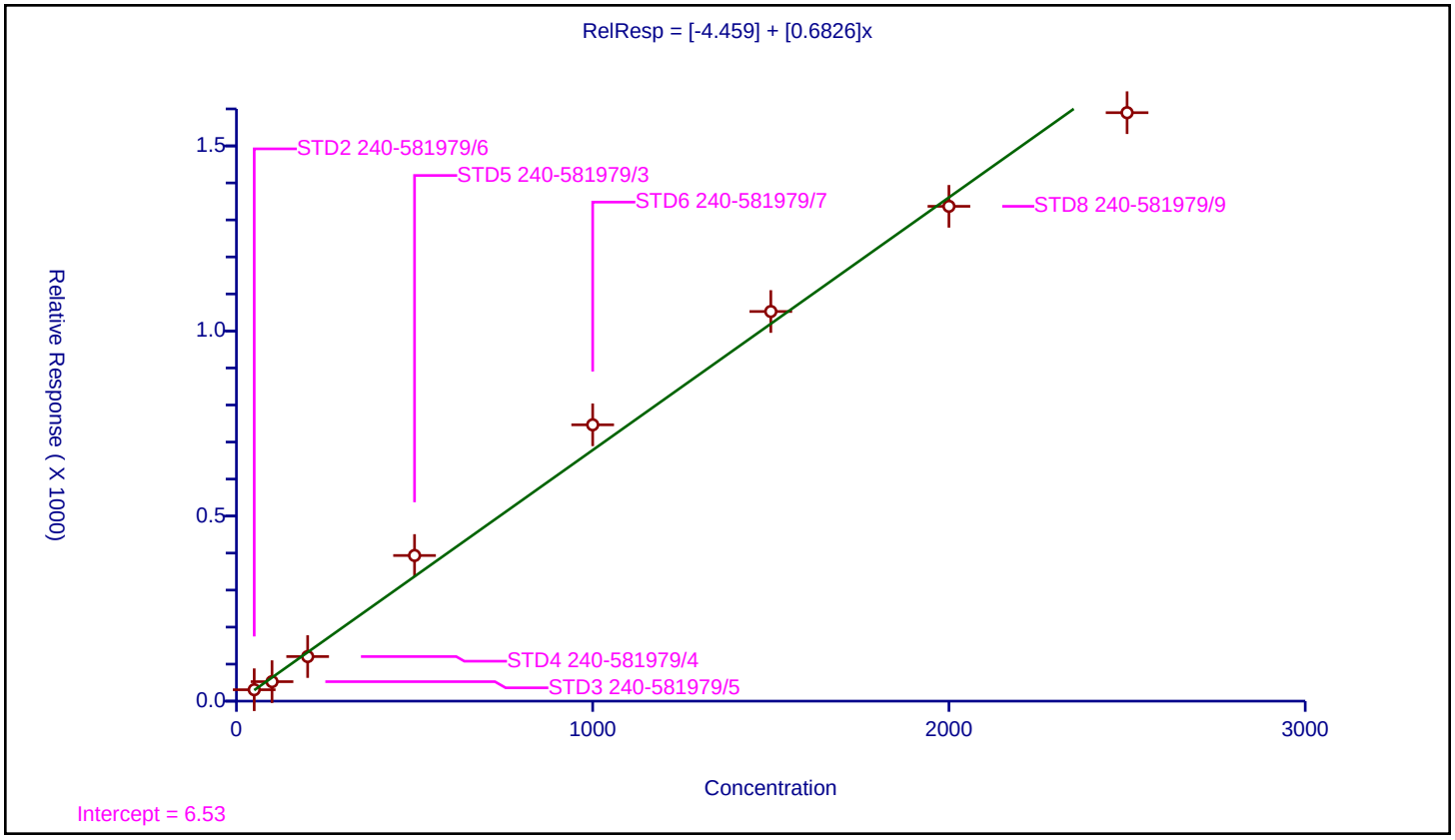
Curve Coefficients

Intercept:	-4.459
Slope:	0.6826

Error Coefficients

Standard Error:	2970000
Relative Standard Error:	11.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581979/6	50.0	30.850892	400.0	993981.0	0.617018	Y
2	STD3 240-581979/5	100.0	52.598171	400.0	987791.0	0.525982	Y
3	STD4 240-581979/4	200.0	120.439453	400.0	1166724.0	0.602197	Y
4	STD5 240-581979/3	500.0	393.453731	400.0	1037782.0	0.786907	Y
5	STD6 240-581979/7	1000.0	746.546386	400.0	1023609.0	0.746546	Y
6	STD7 240-581979/8	1500.0	1052.666626	400.0	1078835.0	0.701778	Y
7	STD8 240-581979/9	2000.0	1336.762675	400.0	1196420.0	0.668381	Y
8	STD9 240-581979/10	2500.0	1589.75562	400.0	1232793.0	0.635902	Y



Calibration / p-Phenylene diamine

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

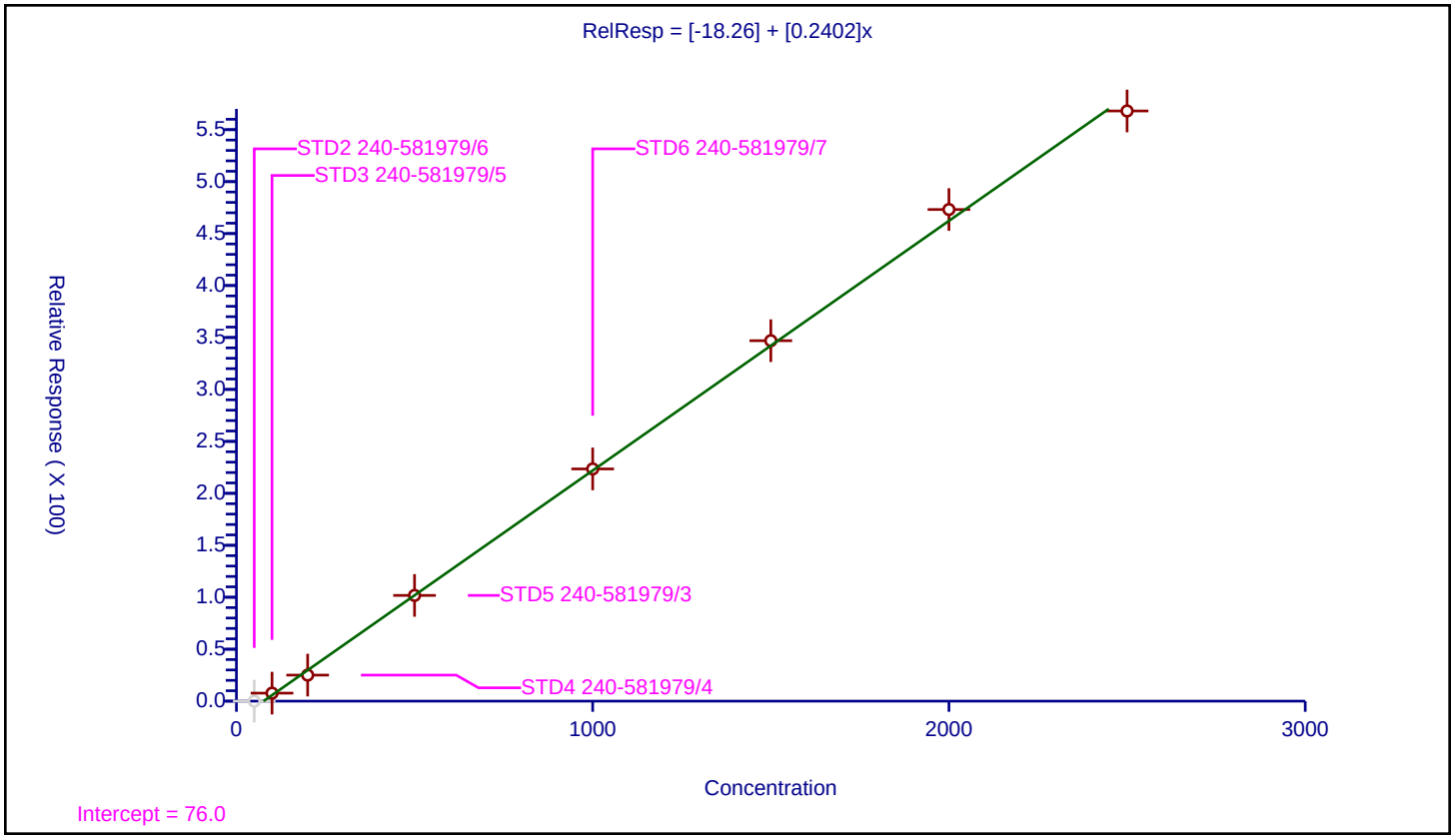
Curve Coefficients

Intercept:	-18.26
Slope:	0.2402

Error Coefficients

Standard Error:	1130000
Relative Standard Error:	5.9
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581979/6	50.0	0.0	400.0	993981.0	0.0	N
2	STD3 240-581979/5	100.0	7.701629	400.0	987791.0	0.077016	Y
3	STD4 240-581979/4	200.0	25.065054	400.0	1166724.0	0.125325	Y
4	STD5 240-581979/3	500.0	101.751235	400.0	1037782.0	0.203502	Y
5	STD6 240-581979/7	1000.0	223.484553	400.0	1023609.0	0.223485	Y
6	STD7 240-581979/8	1500.0	346.914218	400.0	1078835.0	0.231276	Y
7	STD8 240-581979/9	2000.0	473.15859	400.0	1196420.0	0.236579	Y
8	STD9 240-581979/10	2500.0	567.998358	400.0	1232793.0	0.227199	Y



8/12/2023
10:47 AM

Calibration / Safrole, Total

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

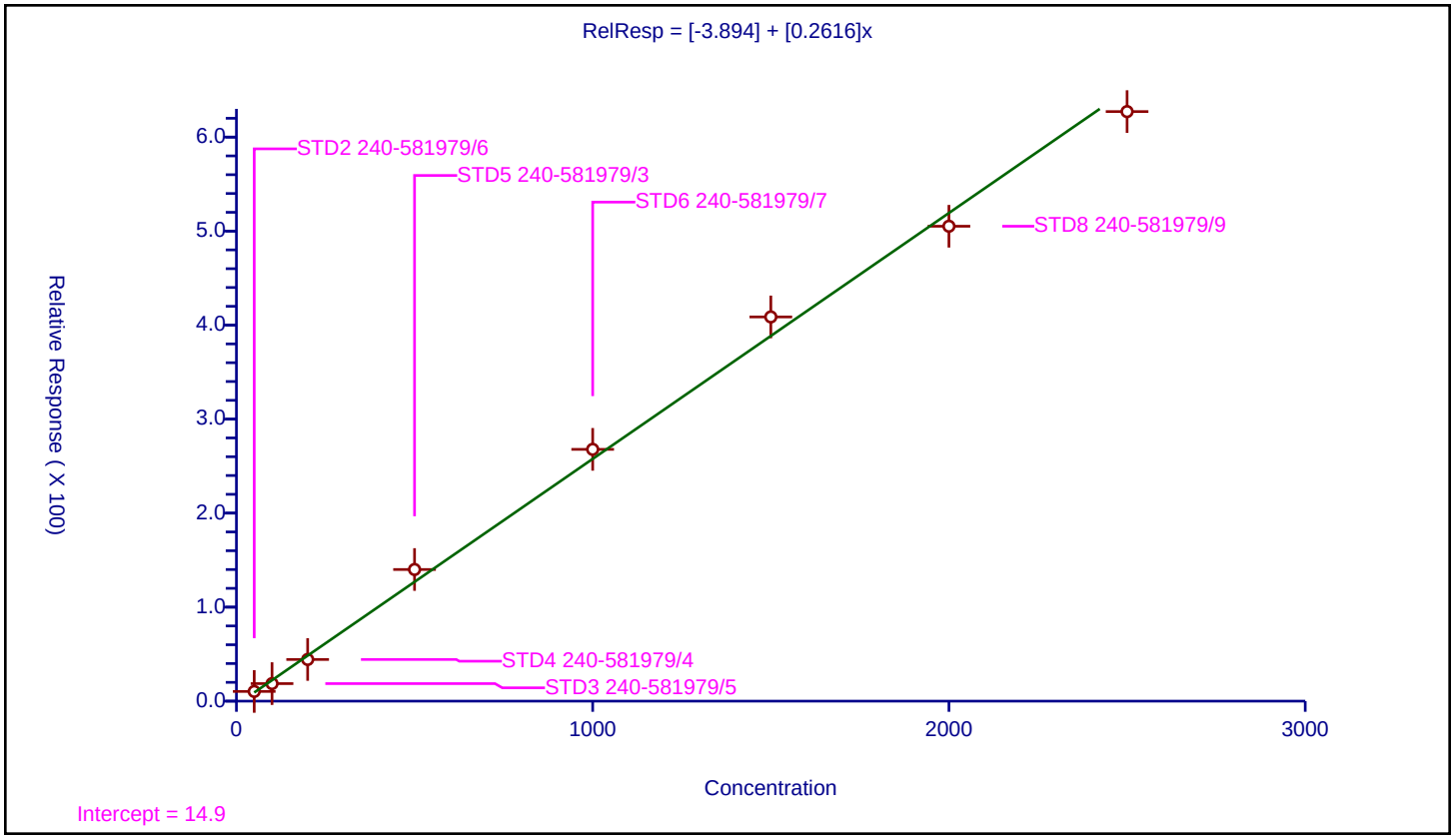
Curve Coefficients

Intercept:	-3.894
Slope:	0.2616

Error Coefficients

Standard Error:	1140000
Relative Standard Error:	9.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581979/6	50.0	10.324946	400.0	993981.0	0.206499	Y
2	STD3 240-581979/5	100.0	18.659008	400.0	987791.0	0.18659	Y
3	STD4 240-581979/4	200.0	44.319651	400.0	1166724.0	0.221598	Y
4	STD5 240-581979/3	500.0	140.037888	400.0	1037782.0	0.280076	Y
5	STD6 240-581979/7	1000.0	267.830392	400.0	1023609.0	0.26783	Y
6	STD7 240-581979/8	1500.0	408.705316	400.0	1078835.0	0.27247	Y
7	STD8 240-581979/9	2000.0	505.180789	400.0	1196420.0	0.25259	Y
8	STD9 240-581979/10	2500.0	627.14957	400.0	1232793.0	0.25086	Y



8/12/2023
10:47 AM

Calibration / Isosafrole Peak 1

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

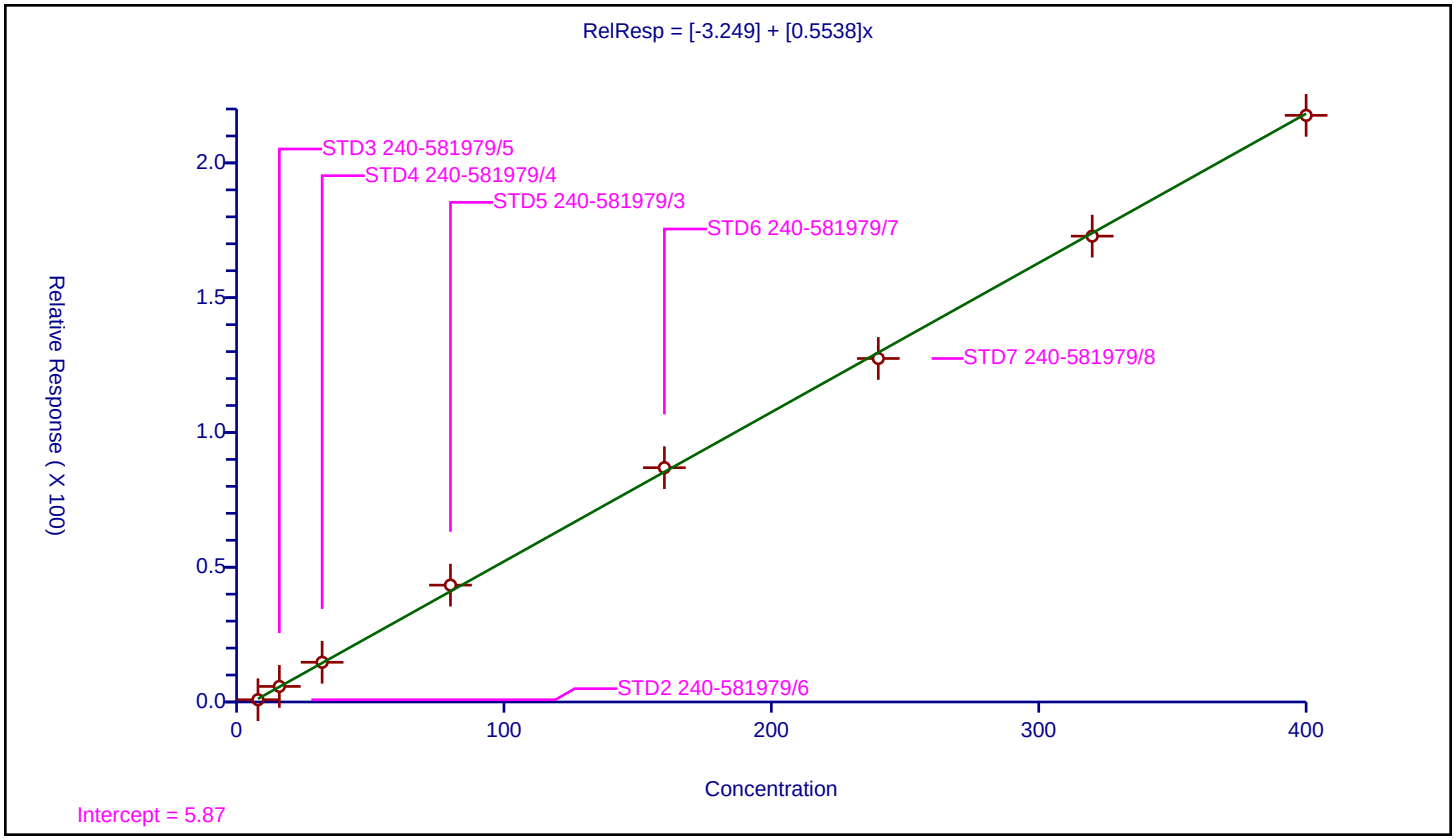
Curve Coefficients

Intercept:	-3.249
Slope:	0.5538

Error Coefficients

Standard Error:	201000
Relative Standard Error:	4.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581979/6	8.0	0.838895	400.0	350461.0	0.104862	Y
2	STD3 240-581979/5	16.0	5.773756	400.0	486200.0	0.36086	Y
3	STD4 240-581979/4	32.0	14.738135	400.0	604147.0	0.460567	Y
4	STD5 240-581979/3	80.0	43.361055	400.0	609035.0	0.542013	Y
5	STD6 240-581979/7	160.0	86.930844	400.0	575699.0	0.543318	Y
6	STD7 240-581979/8	240.0	127.44966	400.0	596838.0	0.53104	Y
7	STD8 240-581979/9	320.0	172.834722	400.0	616191.0	0.540109	Y
8	STD9 240-581979/10	400.0	217.642834	400.0	623800.0	0.544107	Y



8/12/2023
10:47 AM

Calibration / Isosafrole Peak 2

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

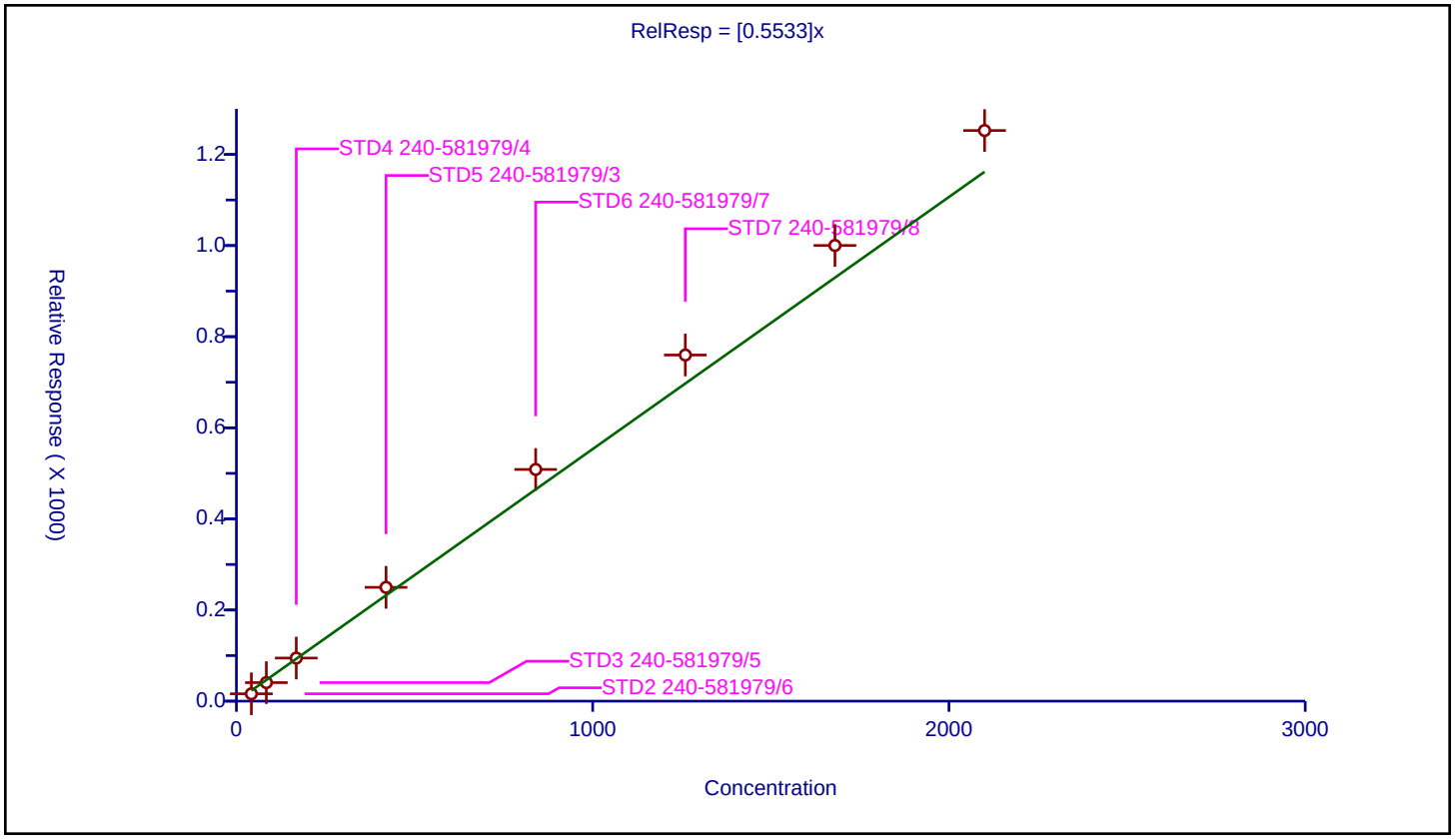
Curve Coefficients

Intercept:	0
Slope:	0.5533

Error Coefficients

Standard Error:	1080000
Relative Standard Error:	14.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.977

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581979/6	42.0	16.141026	400.0	350461.0	0.38431	Y
2	STD3 240-581979/5	84.0	40.679556	400.0	486200.0	0.48428	Y
3	STD4 240-581979/4	168.0	94.578306	400.0	604147.0	0.562966	Y
4	STD5 240-581979/3	420.0	249.753134	400.0	609035.0	0.59465	Y
5	STD6 240-581979/7	840.0	508.546306	400.0	575699.0	0.605412	Y
6	STD7 240-581979/8	1260.0	759.769318	400.0	596838.0	0.602992	Y
7	STD8 240-581979/9	1680.0	1000.187929	400.0	616191.0	0.59535	Y
8	STD9 240-581979/10	2100.0	1252.523886	400.0	623800.0	0.59644	Y



Calibration / 1,4-Naphthoquinone

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

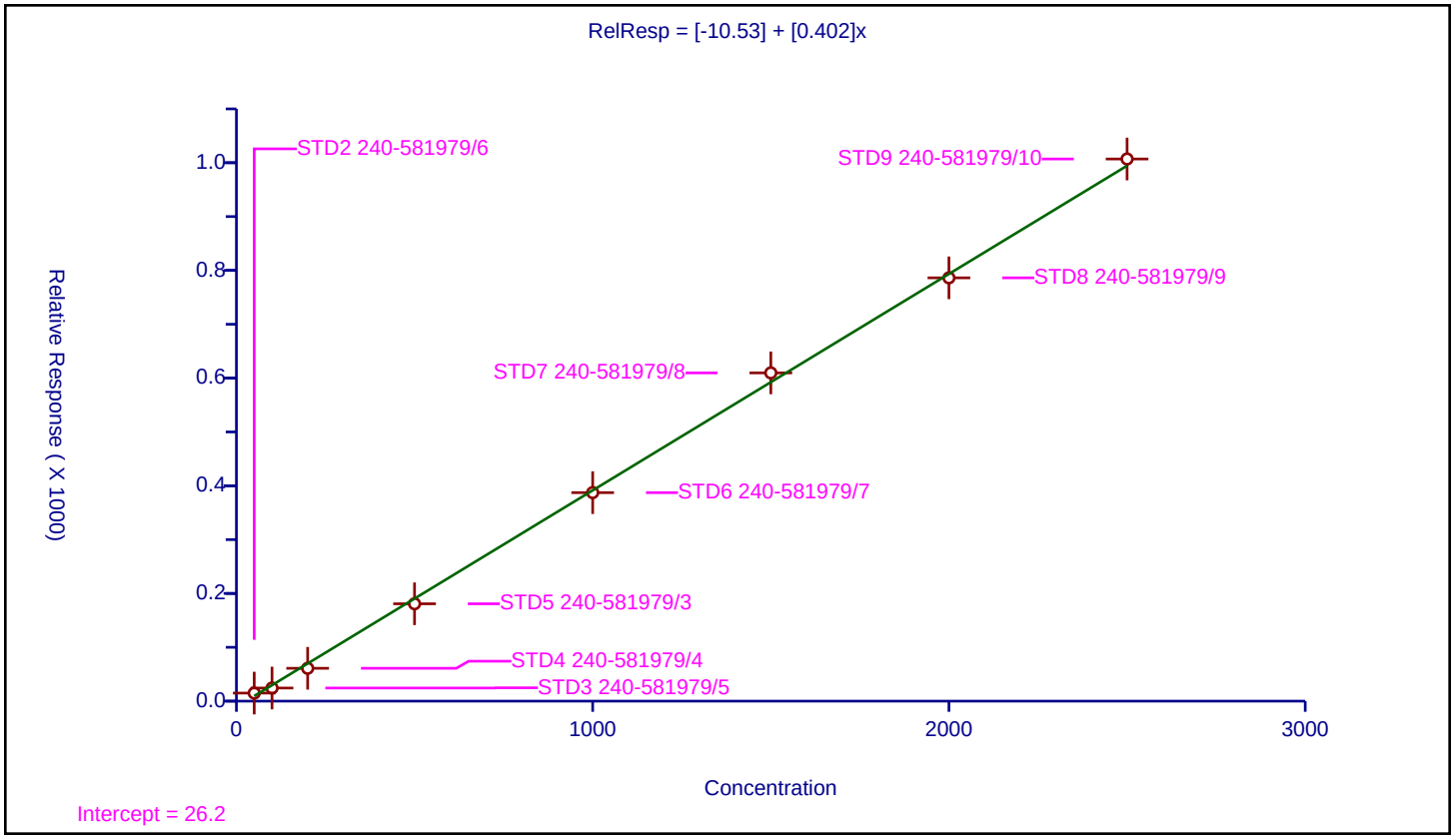
Curve Coefficients

Intercept:	-10.53
Slope:	0.402

Error Coefficients

Standard Error:	926000
Relative Standard Error:	13.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581979/6	50.0	14.965431	400.0	350461.0	0.299309	Y
2	STD3 240-581979/5	100.0	24.356232	400.0	486200.0	0.243562	Y
3	STD4 240-581979/4	200.0	61.019586	400.0	604147.0	0.305098	Y
4	STD5 240-581979/3	500.0	180.844122	400.0	609035.0	0.361688	Y
5	STD6 240-581979/7	1000.0	387.256535	400.0	575699.0	0.387257	Y
6	STD7 240-581979/8	1500.0	609.691742	400.0	596838.0	0.406461	Y
7	STD8 240-581979/9	2000.0	786.222454	400.0	616191.0	0.393111	Y
8	STD9 240-581979/10	2500.0	1006.956717	400.0	623800.0	0.402783	Y



Calibration / 1,4-Dinitrobenzene

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

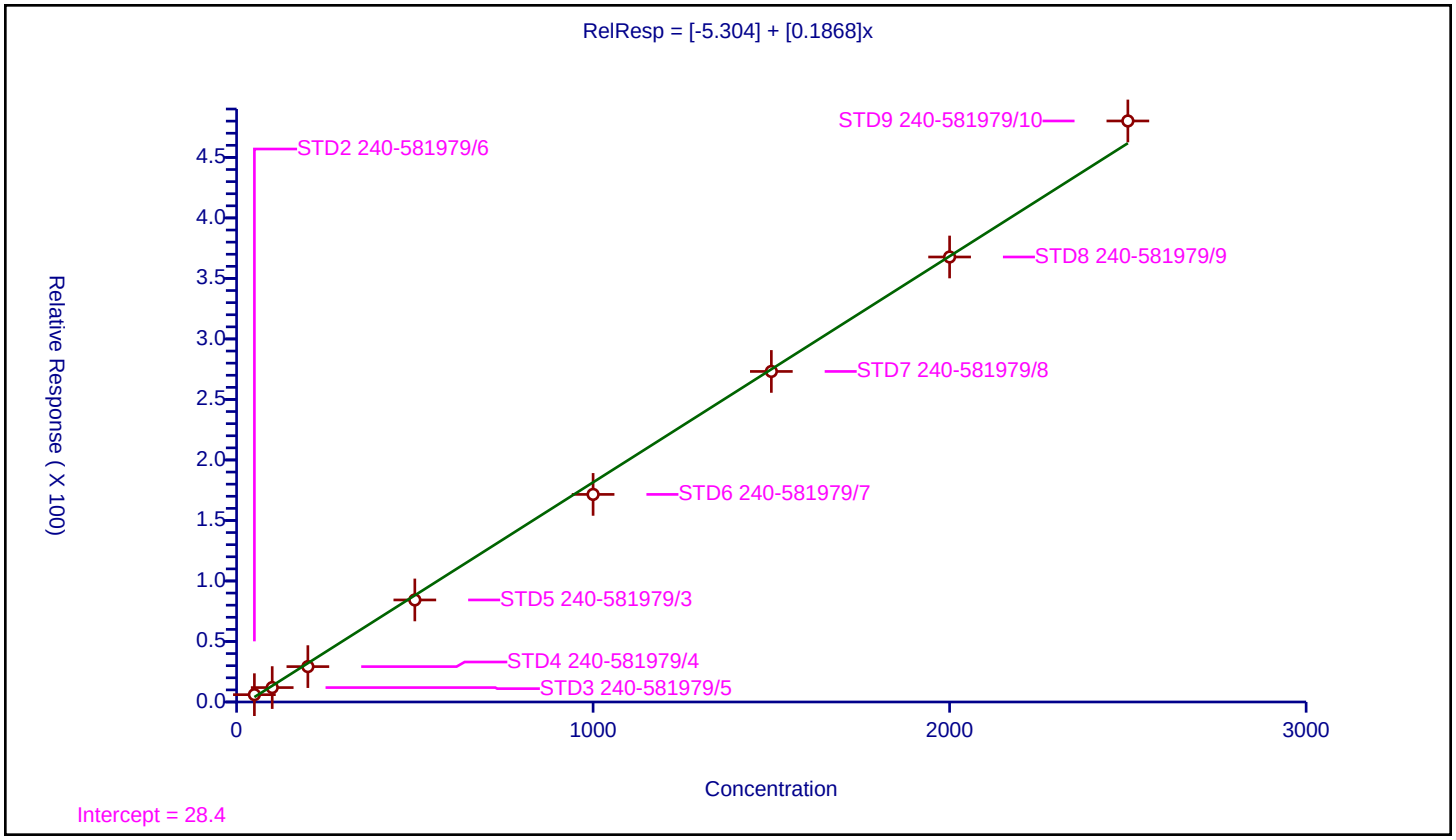
Curve Coefficients

Intercept:	-5.304
Slope:	0.1868

Error Coefficients

Standard Error:	433000
Relative Standard Error:	10.4
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581979/6	50.0	6.052599	400.0	350461.0	0.121052	Y
2	STD3 240-581979/5	100.0	11.920197	400.0	486200.0	0.119202	Y
3	STD4 240-581979/4	200.0	29.241228	400.0	604147.0	0.146206	Y
4	STD5 240-581979/3	500.0	84.322904	400.0	609035.0	0.168646	Y
5	STD6 240-581979/7	1000.0	171.542421	400.0	575699.0	0.171542	Y
6	STD7 240-581979/8	1500.0	273.150168	400.0	596838.0	0.1821	Y
7	STD8 240-581979/9	2000.0	367.723644	400.0	616191.0	0.183862	Y
8	STD9 240-581979/10	2500.0	480.129529	400.0	623800.0	0.192052	Y



8/12/2023
10:47 AM

Calibration / Pentachlorobenzene

Curve Type:	Quadratic
Weighting:	None
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

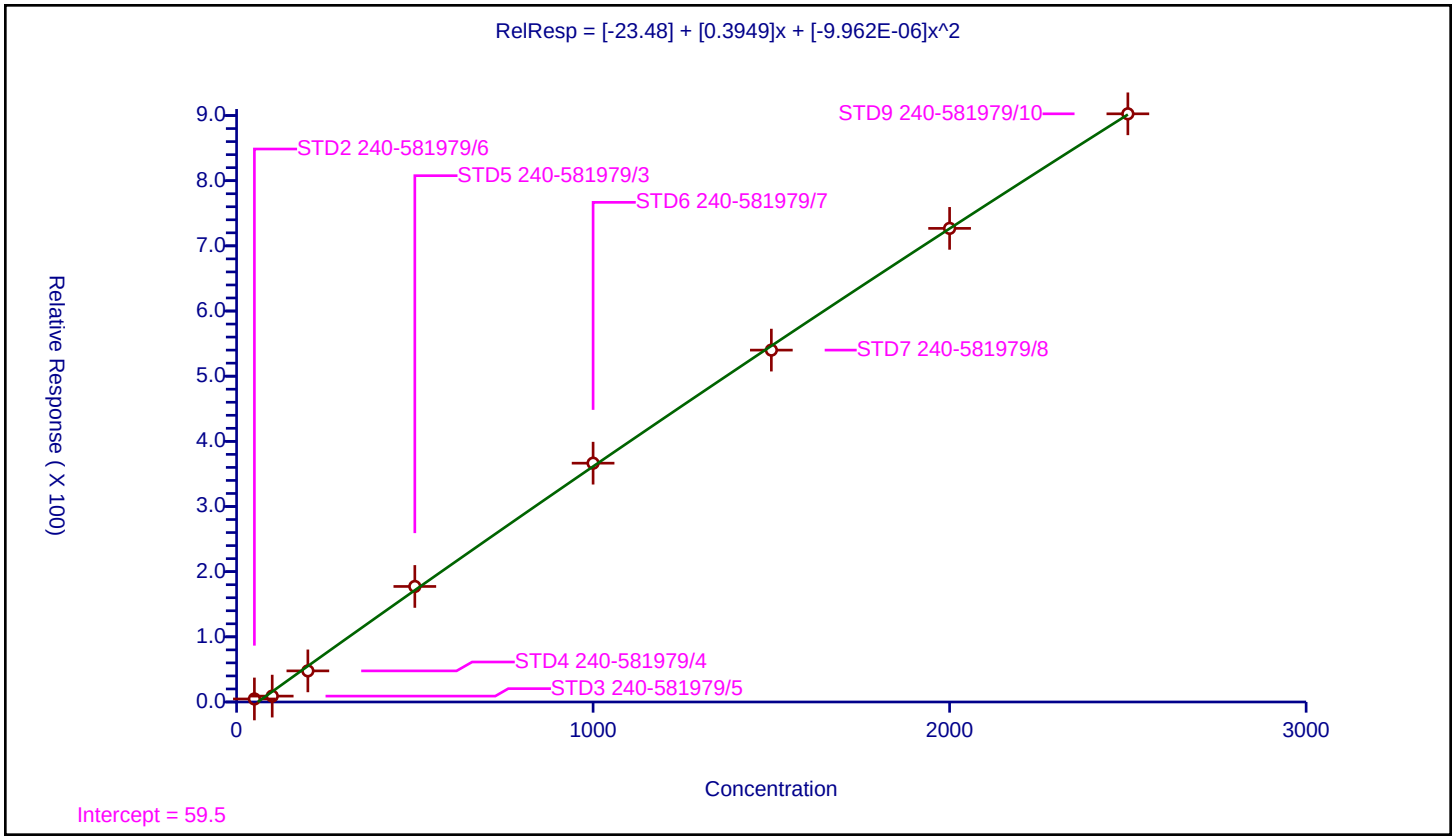
Curve Coefficients

Intercept:	-23.48
Slope:	0.3949
Second Order:	-9.962E-06

Error Coefficients

Standard Error:	920000
Relative Standard Error:	21.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581979/6	50.0	4.6533	400.0	350461.0	0.093066	Y
2	STD3 240-581979/5	100.0	9.034965	400.0	486200.0	0.09035	Y
3	STD4 240-581979/4	200.0	47.728119	400.0	604147.0	0.238641	Y
4	STD5 240-581979/3	500.0	177.285706	400.0	609035.0	0.354571	Y
5	STD6 240-581979/7	1000.0	366.511667	400.0	575699.0	0.366512	Y
6	STD7 240-581979/8	1500.0	540.001139	400.0	596838.0	0.360001	Y
7	STD8 240-581979/9	2000.0	726.833725	400.0	616191.0	0.363417	Y
8	STD9 240-581979/10	2500.0	902.648285	400.0	623800.0	0.361059	Y



8/12/2023
10:47 AM

Calibration / 1-Naphthylamine

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

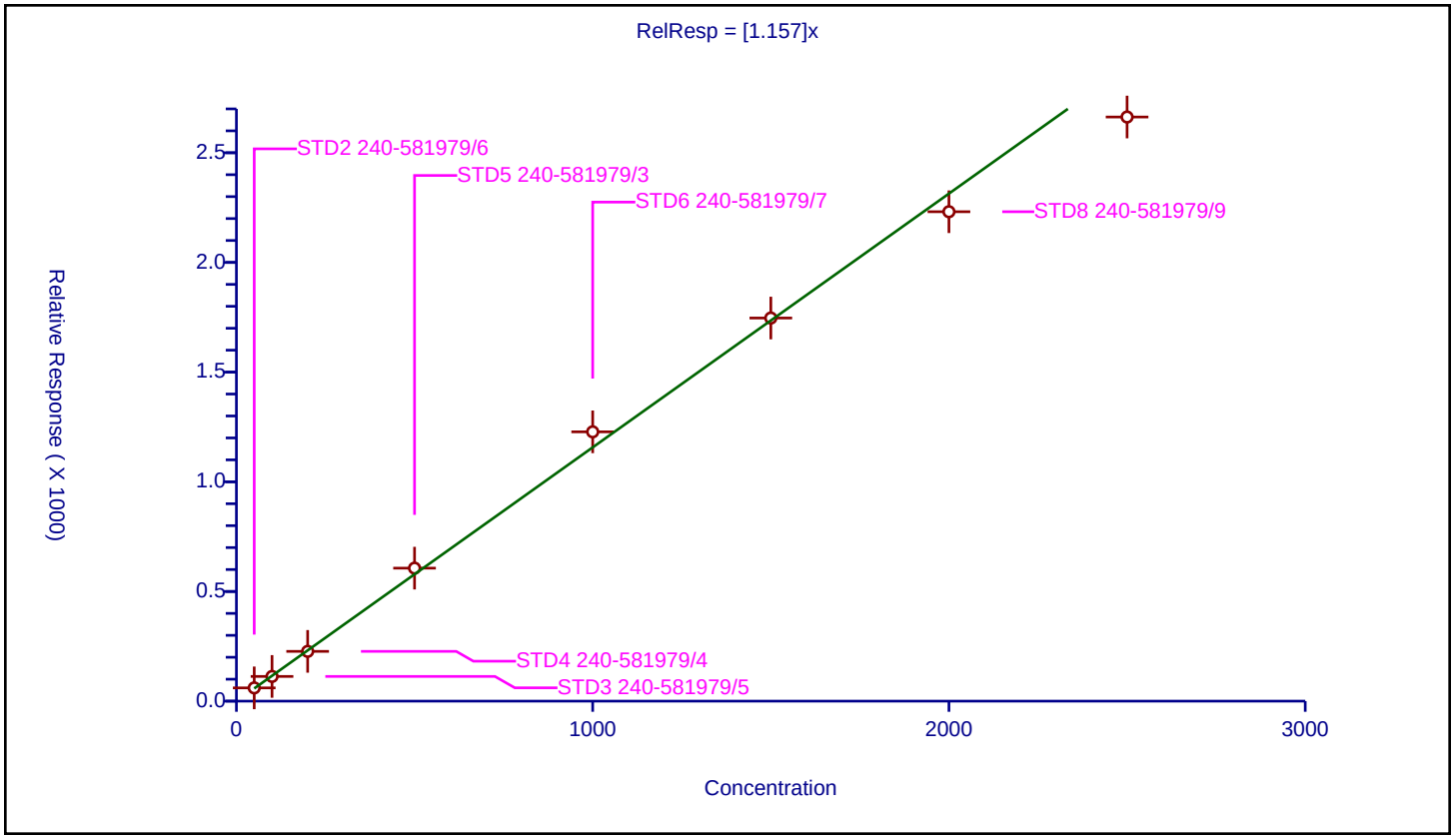
Curve Coefficients

Intercept:	0
Slope:	1.157

Error Coefficients

Standard Error:	2390000
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	STD2 240-581979/6	50.0	60.467784	400.0	350461.0	1.209356	Y
2	STD3 240-581979/5	100.0	112.605512	400.0	486200.0	1.126055	Y
3	STD4 240-581979/4	200.0	226.881206	400.0	604147.0	1.134406	Y
4	STD5 240-581979/3	500.0	606.270576	400.0	609035.0	1.212541	Y
5	STD6 240-581979/7	1000.0	1227.713093	400.0	575699.0	1.227713	Y
6	STD7 240-581979/8	1500.0	1746.563724	400.0	596838.0	1.164376	Y
7	STD8 240-581979/9	2000.0	2231.189355	400.0	616191.0	1.115595	Y
8	STD9 240-581979/10	2500.0	2662.993267	400.0	623800.0	1.065197	Y



8/12/2023
10:47 AM

Calibration / 2-Naphthylamine

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

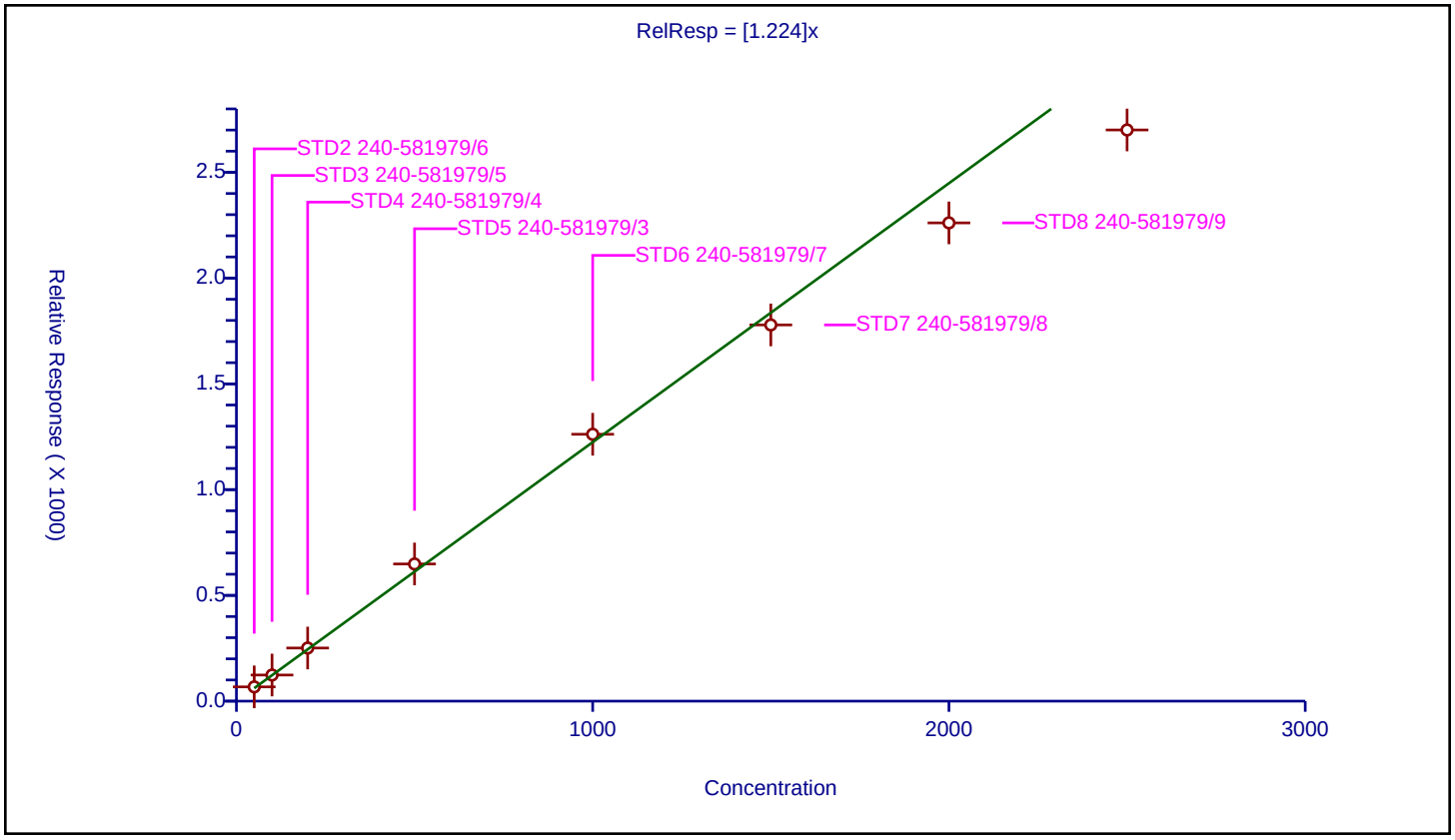
Curve Coefficients

Intercept:	0
Slope:	1.224

Error Coefficients

Standard Error:	2430000
Relative Standard Error:	7.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581979/6	50.0	67.408356	400.0	350461.0	1.348167	Y
2	STD3 240-581979/5	100.0	123.470177	400.0	486200.0	1.234702	Y
3	STD4 240-581979/4	200.0	251.15212	400.0	604147.0	1.255761	Y
4	STD5 240-581979/3	500.0	648.534813	400.0	609035.0	1.29707	Y
5	STD6 240-581979/7	1000.0	1261.798961	400.0	575699.0	1.261799	Y
6	STD7 240-581979/8	1500.0	1778.632058	400.0	596838.0	1.185755	Y
7	STD8 240-581979/9	2000.0	2261.03205	400.0	616191.0	1.130516	Y
8	STD9 240-581979/10	2500.0	2700.340494	400.0	623800.0	1.080136	Y



Calibration / Thionazin

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

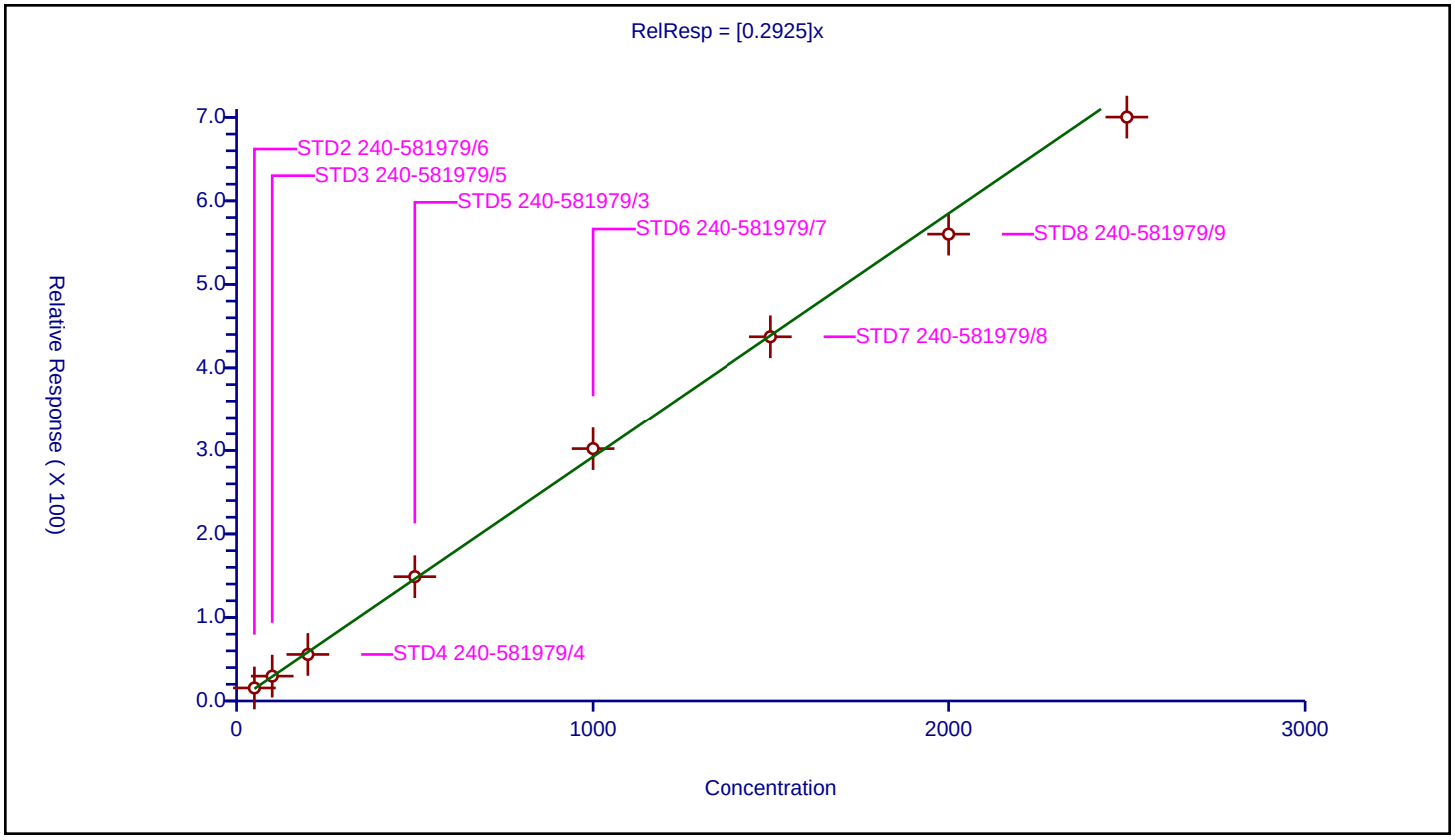
Curve Coefficients

Intercept:	0
Slope:	0.2925

Error Coefficients

Standard Error:	610000
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	STD2 240-581979/6	50.0	15.582904	400.0	350461.0	0.311658	Y
2	STD3 240-581979/5	100.0	29.784451	400.0	486200.0	0.297845	Y
3	STD4 240-581979/4	200.0	55.717565	400.0	604147.0	0.278588	Y
4	STD5 240-581979/3	500.0	148.853186	400.0	609035.0	0.297706	Y
5	STD6 240-581979/7	1000.0	302.200977	400.0	575699.0	0.302201	Y
6	STD7 240-581979/8	1500.0	437.301244	400.0	596838.0	0.291534	Y
7	STD8 240-581979/9	2000.0	560.172414	400.0	616191.0	0.280086	Y
8	STD9 240-581979/10	2500.0	700.321257	400.0	623800.0	0.280129	Y



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

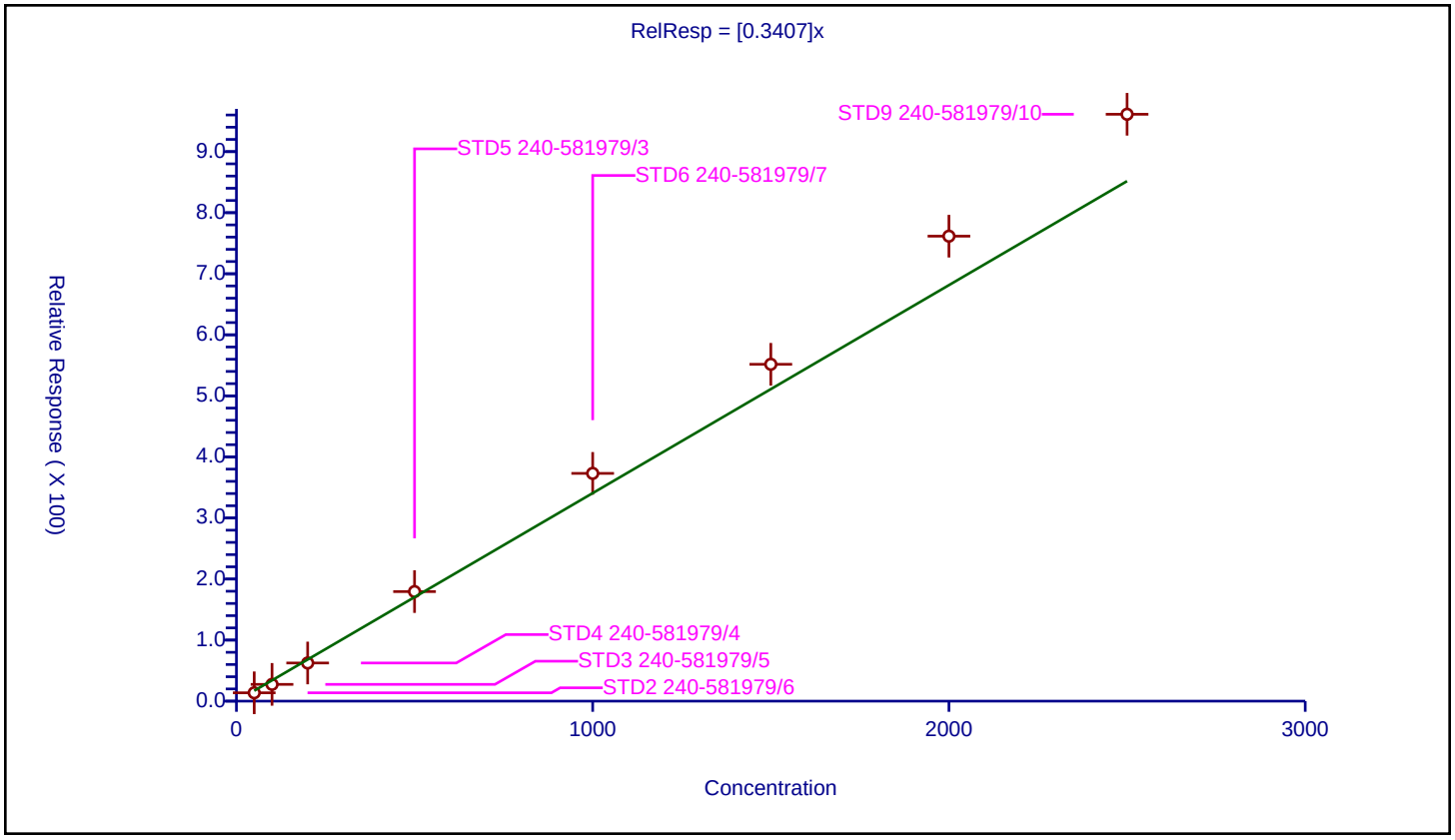
Curve Coefficients

Intercept:	0
Slope:	0.3407

Error Coefficients

Standard Error:	817000
Relative Standard Error:	13.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581979/6	50.0	13.676843	400.0	350461.0	0.273537	Y
2	STD3 240-581979/5	100.0	27.449609	400.0	486200.0	0.274496	Y
3	STD4 240-581979/4	200.0	62.499359	400.0	604147.0	0.312497	Y
4	STD5 240-581979/3	500.0	179.433366	400.0	609035.0	0.358867	Y
5	STD6 240-581979/7	1000.0	373.028961	400.0	575699.0	0.373029	Y
6	STD7 240-581979/8	1500.0	551.727604	400.0	596838.0	0.367818	Y
7	STD8 240-581979/9	2000.0	761.541146	400.0	616191.0	0.380771	Y
8	STD9 240-581979/10	2500.0	961.197179	400.0	623800.0	0.384479	Y



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

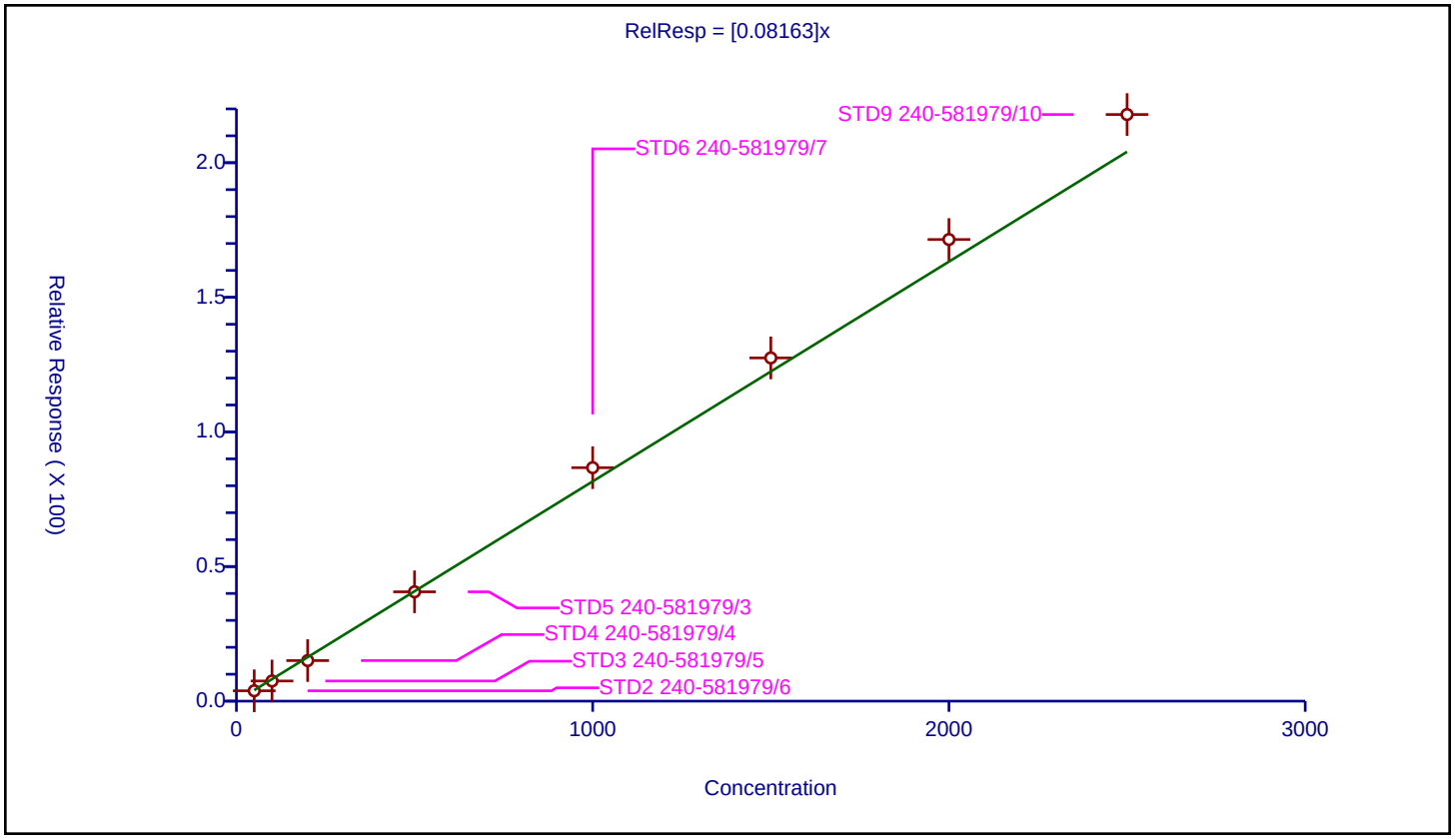
Curve Coefficients

Intercept:	0
Slope:	0.08163

Error Coefficients

Standard Error:	285000
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	STD2 240-581979/6	50.0	3.84832	400.0	718963.0	0.076966	Y
2	STD3 240-581979/5	100.0	7.48783	400.0	886986.0	0.074878	Y
3	STD4 240-581979/4	200.0	15.067307	400.0	991126.0	0.075337	Y
4	STD5 240-581979/3	500.0	40.612065	400.0	972381.0	0.081224	Y
5	STD6 240-581979/7	1000.0	86.724936	400.0	890572.0	0.086725	Y
6	STD7 240-581979/8	1500.0	127.497438	400.0	910343.0	0.084998	Y
7	STD8 240-581979/9	2000.0	171.483576	400.0	951606.0	0.085742	Y
8	STD9 240-581979/10	2500.0	217.915705	400.0	953934.0	0.087166	Y



Calibration / 1,3,5-Trinitrobenzene

Curve Type:	Quadratic
Weighting:	None
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

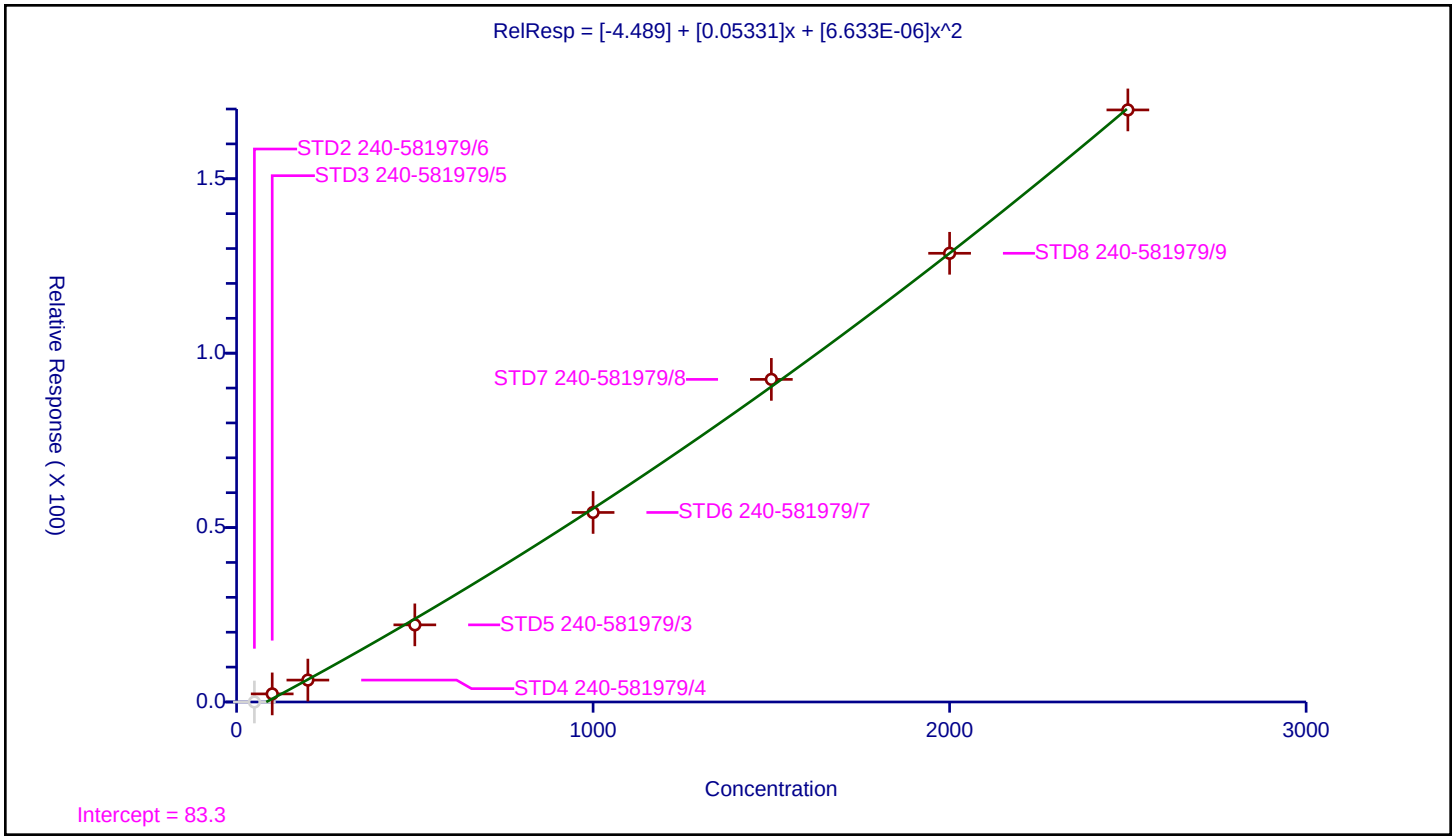
Curve Coefficients

Intercept:	-4.489
Slope:	0.05331
Second Order:	6.633E-06

Error Coefficients

Standard Error:	283000
Relative Standard Error:	13.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581979/6	50.0	0.0	400.0	718963.0	0.0	N
2	STD3 240-581979/5	100.0	2.316609	400.0	886986.0	0.023166	Y
3	STD4 240-581979/4	200.0	6.277708	400.0	991126.0	0.031389	Y
4	STD5 240-581979/3	500.0	22.113966	400.0	972381.0	0.044228	Y
5	STD6 240-581979/7	1000.0	54.337212	400.0	890572.0	0.054337	Y
6	STD7 240-581979/8	1500.0	92.483822	400.0	910343.0	0.061656	Y
7	STD8 240-581979/9	2000.0	128.643157	400.0	951606.0	0.064322	Y
8	STD9 240-581979/10	2500.0	169.737529	400.0	953934.0	0.067895	Y



8/12/2023
10:47 AM

Calibration / Diallate Peak 1

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

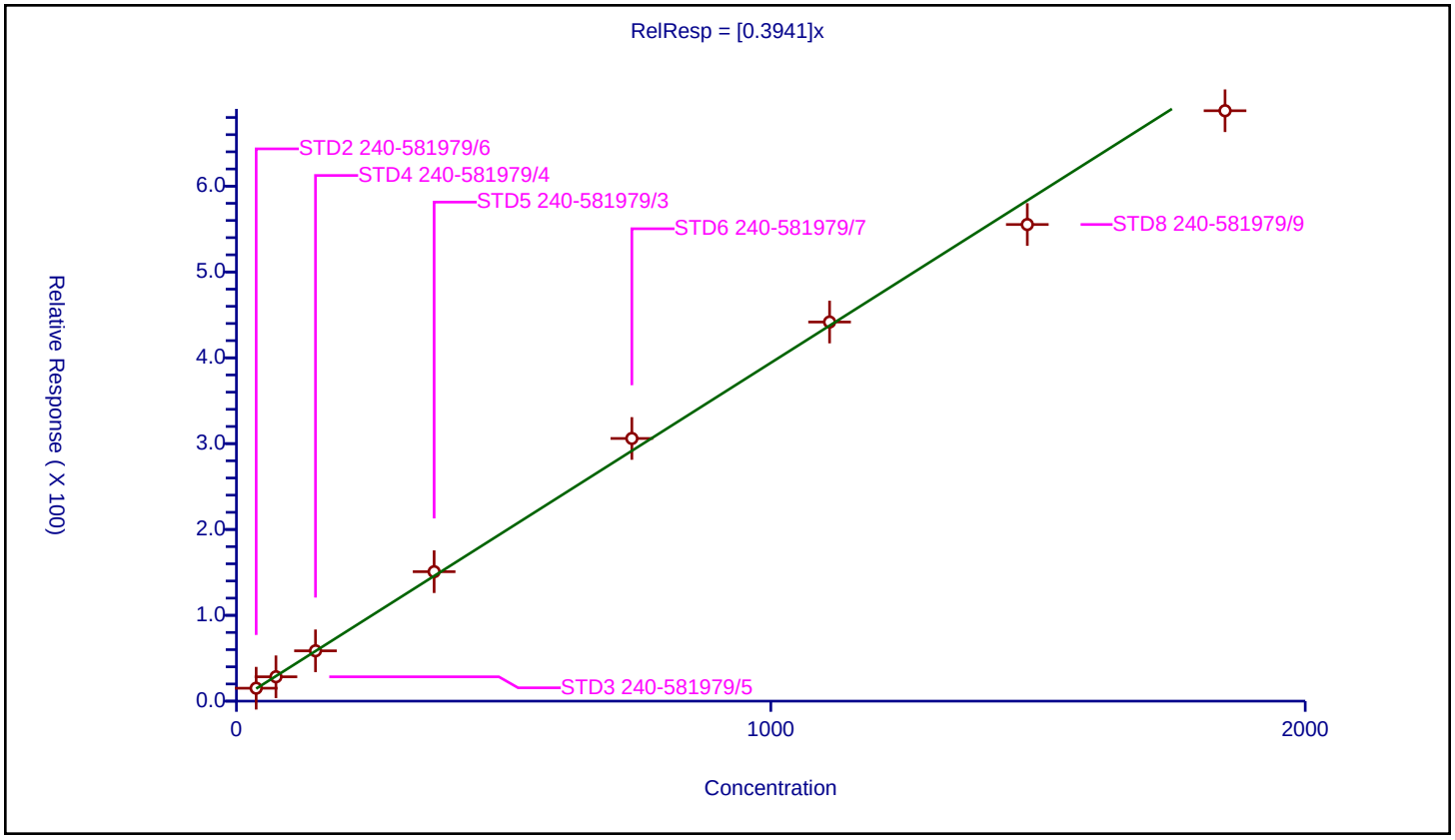
Curve Coefficients

Intercept:	0
Slope:	0.3941

Error Coefficients

Standard Error:	931000
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	STD2 240-581979/6	37.0	15.070038	400.0	718963.0	0.407298	Y
2	STD3 240-581979/5	74.0	28.372488	400.0	886986.0	0.383412	Y
3	STD4 240-581979/4	148.0	58.645621	400.0	991126.0	0.396254	Y
4	STD5 240-581979/3	370.0	150.816192	400.0	972381.0	0.407611	Y
5	STD6 240-581979/7	740.0	306.044205	400.0	890572.0	0.413573	Y
6	STD7 240-581979/8	1110.0	441.686705	400.0	910343.0	0.397916	Y
7	STD8 240-581979/9	1480.0	555.292001	400.0	951606.0	0.375197	Y
8	STD9 240-581979/10	1850.0	687.859747	400.0	953934.0	0.371816	Y



Calibration / Phenacetin

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

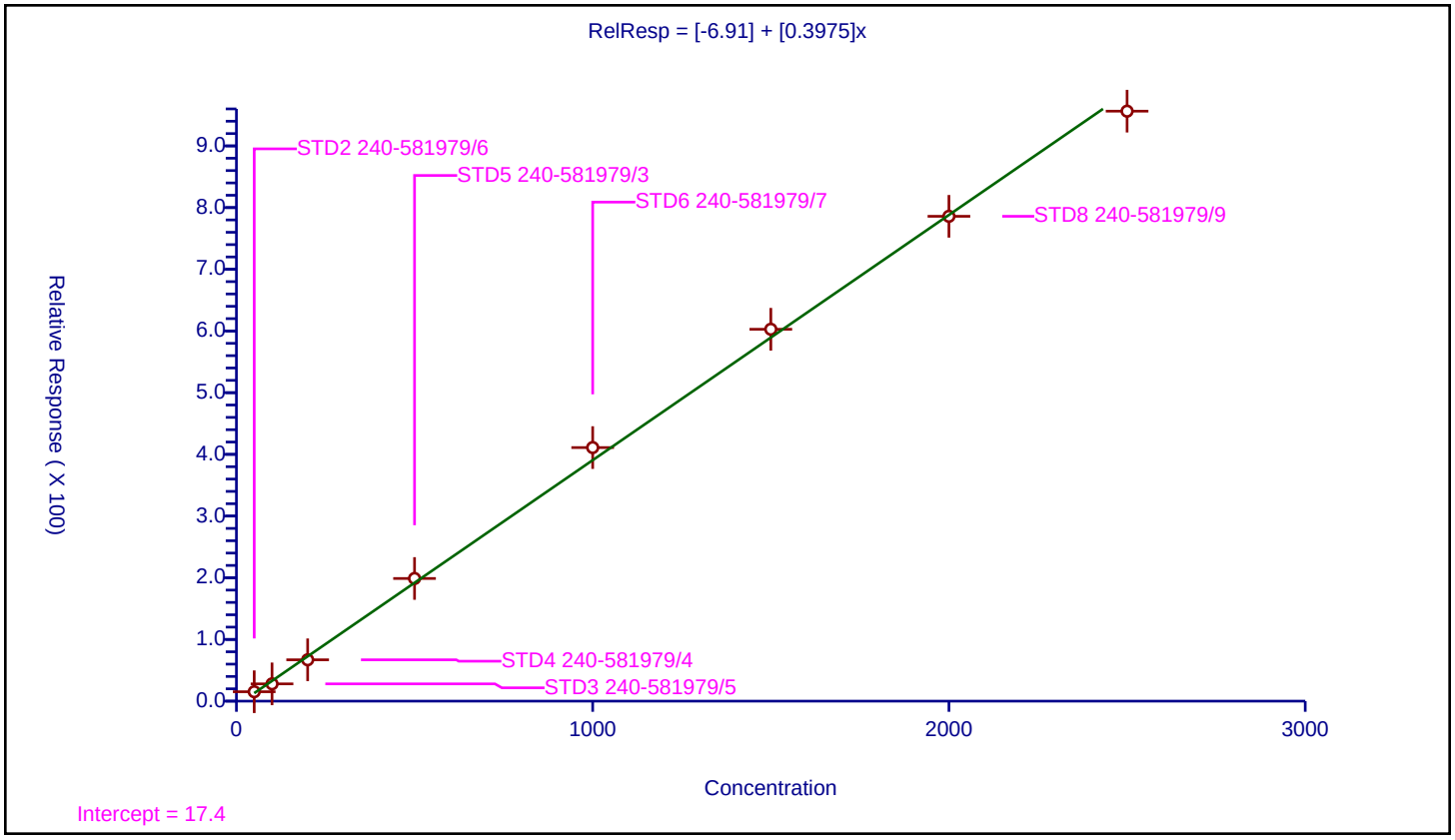
Curve Coefficients

Intercept:	-6.91
Slope:	0.3975

Error Coefficients

Standard Error:	1390000
Relative Standard Error:	8.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581979/6	50.0	15.26977	400.0	718963.0	0.305395	Y
2	STD3 240-581979/5	100.0	28.00405	400.0	886986.0	0.28004	Y
3	STD4 240-581979/4	200.0	67.040518	400.0	991126.0	0.335203	Y
4	STD5 240-581979/3	500.0	198.827414	400.0	972381.0	0.397655	Y
5	STD6 240-581979/7	1000.0	411.002367	400.0	890572.0	0.411002	Y
6	STD7 240-581979/8	1500.0	602.777195	400.0	910343.0	0.401851	Y
7	STD8 240-581979/9	2000.0	785.894162	400.0	951606.0	0.392947	Y
8	STD9 240-581979/10	2500.0	956.311024	400.0	953934.0	0.382524	Y



8/12/2023
10:47 AM

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

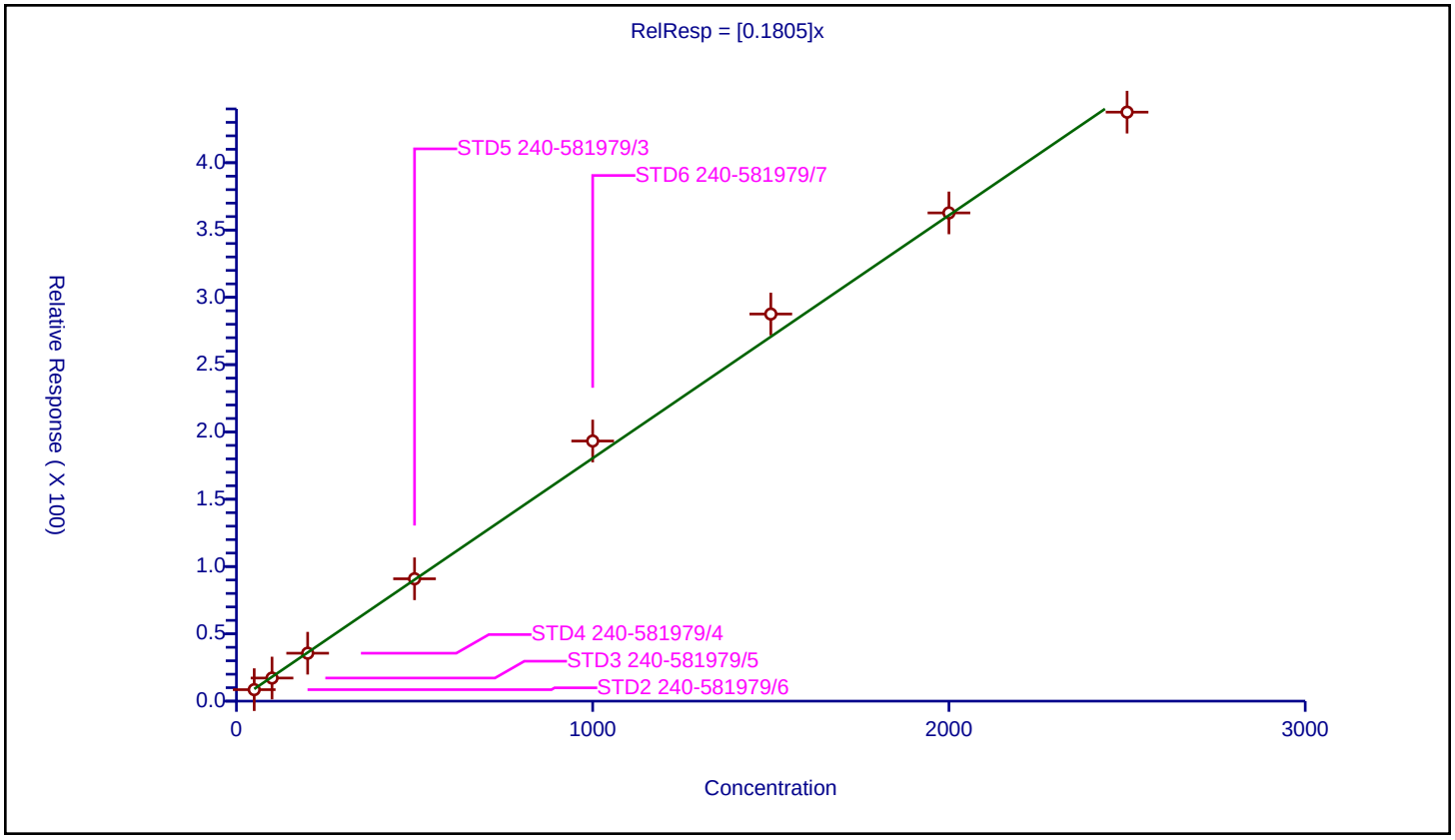
Curve Coefficients

Intercept:	0
Slope:	0.1805

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	STD2 240-581979/6	50.0	8.546198	400.0	718963.0	0.170924	Y
2	STD3 240-581979/5	100.0	17.165096	400.0	886986.0	0.171651	Y
3	STD4 240-581979/4	200.0	35.611617	400.0	991126.0	0.178058	Y
4	STD5 240-581979/3	500.0	90.895647	400.0	972381.0	0.181791	Y
5	STD6 240-581979/7	1000.0	193.257816	400.0	890572.0	0.193258	Y
6	STD7 240-581979/8	1500.0	287.588744	400.0	910343.0	0.191726	Y
7	STD8 240-581979/9	2000.0	362.729113	400.0	951606.0	0.181365	Y
8	STD9 240-581979/10	2500.0	437.589603	400.0	953934.0	0.175036	Y



Calibration / Diallate Peak 2

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

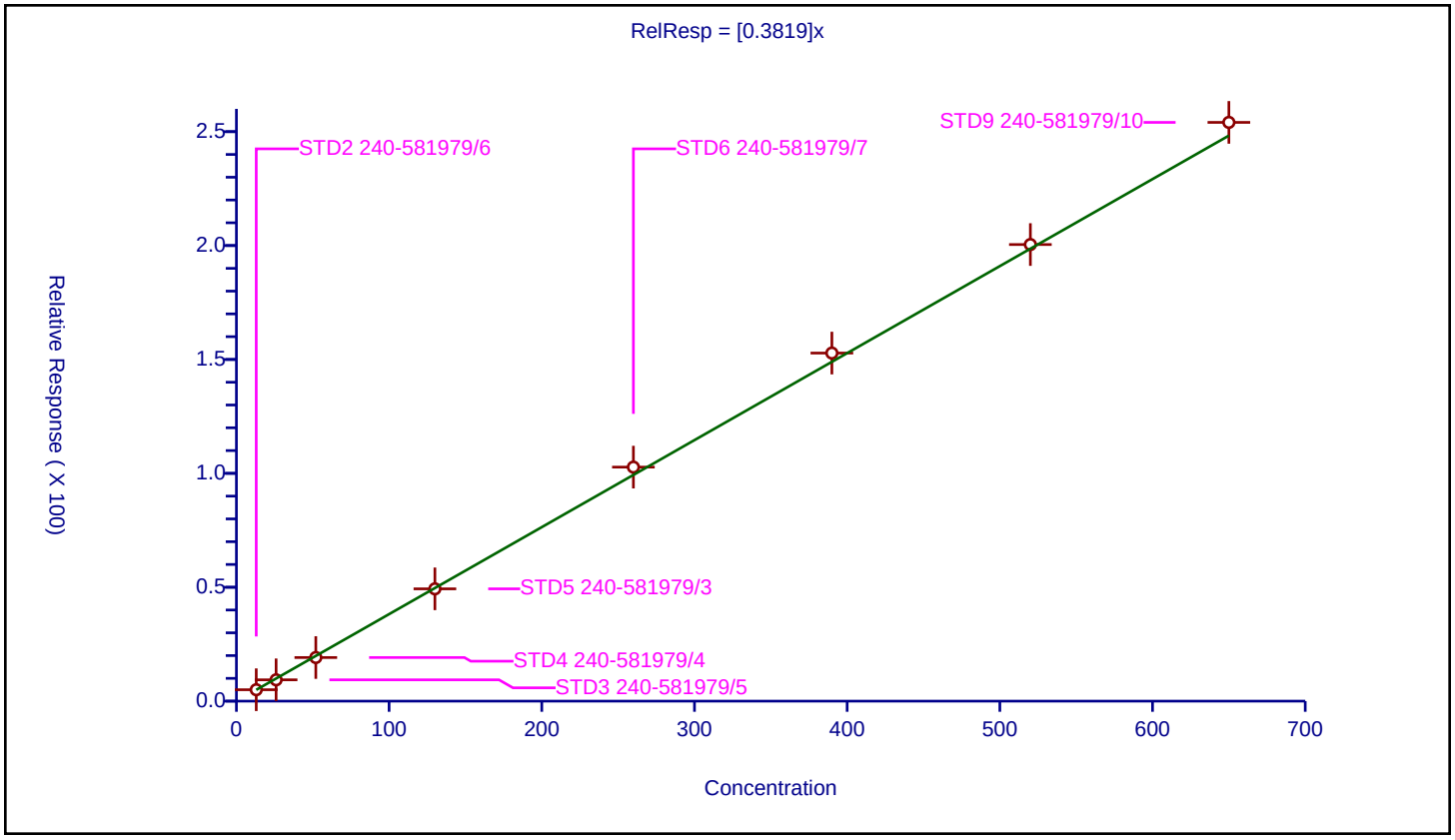
Curve Coefficients

Intercept:	0
Slope:	0.3819

Error Coefficients

Standard Error:	335000
Relative Standard Error:	3.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581979/6	13.0	5.004986	400.0	718963.0	0.384999	Y
2	STD3 240-581979/5	26.0	9.354826	400.0	886986.0	0.359801	Y
3	STD4 240-581979/4	52.0	19.149937	400.0	991126.0	0.368268	Y
4	STD5 240-581979/3	130.0	49.300017	400.0	972381.0	0.379231	Y
5	STD6 240-581979/7	260.0	102.733524	400.0	890572.0	0.395129	Y
6	STD7 240-581979/8	390.0	152.802625	400.0	910343.0	0.391802	Y
7	STD8 240-581979/9	520.0	200.447244	400.0	951606.0	0.385475	Y
8	STD9 240-581979/10	650.0	254.070407	400.0	953934.0	0.390878	Y



8/12/2023
10:47 AM

Calibration / Dimethoate

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

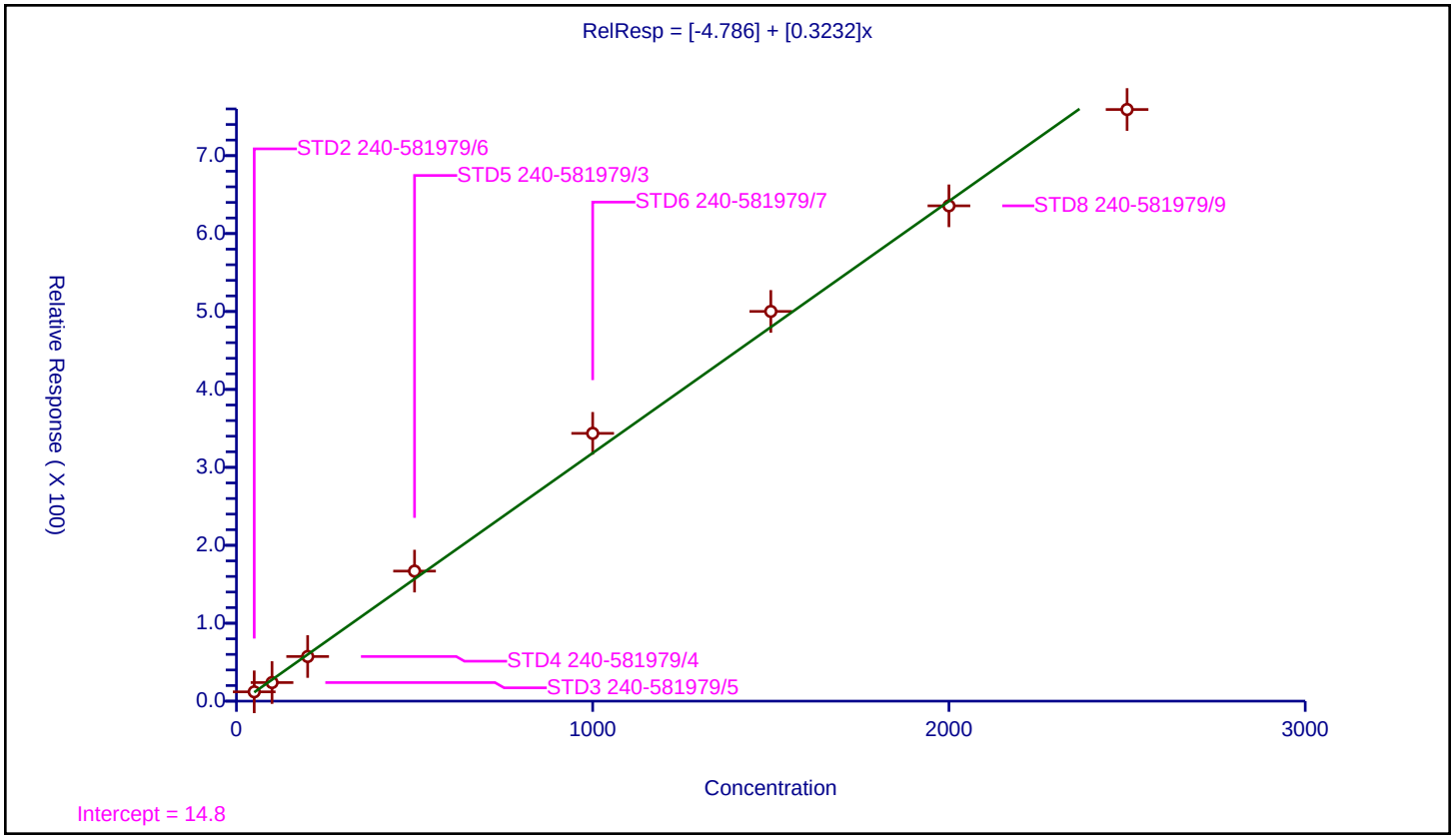
Curve Coefficients

Intercept:	-4.786
Slope:	0.3232

Error Coefficients

Standard Error:	1130000
Relative Standard Error:	7.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581979/6	50.0	11.938306	400.0	718963.0	0.238766	Y
2	STD3 240-581979/5	100.0	23.845698	400.0	886986.0	0.238457	Y
3	STD4 240-581979/4	200.0	57.279095	400.0	991126.0	0.286395	Y
4	STD5 240-581979/3	500.0	166.875741	400.0	972381.0	0.333751	Y
5	STD6 240-581979/7	1000.0	343.653292	400.0	890572.0	0.343653	Y
6	STD7 240-581979/8	1500.0	500.105565	400.0	910343.0	0.333404	Y
7	STD8 240-581979/9	2000.0	635.624408	400.0	951606.0	0.317812	Y
8	STD9 240-581979/10	2500.0	759.198854	400.0	953934.0	0.30368	Y



Calibration / 4-Aminobiphenyl

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

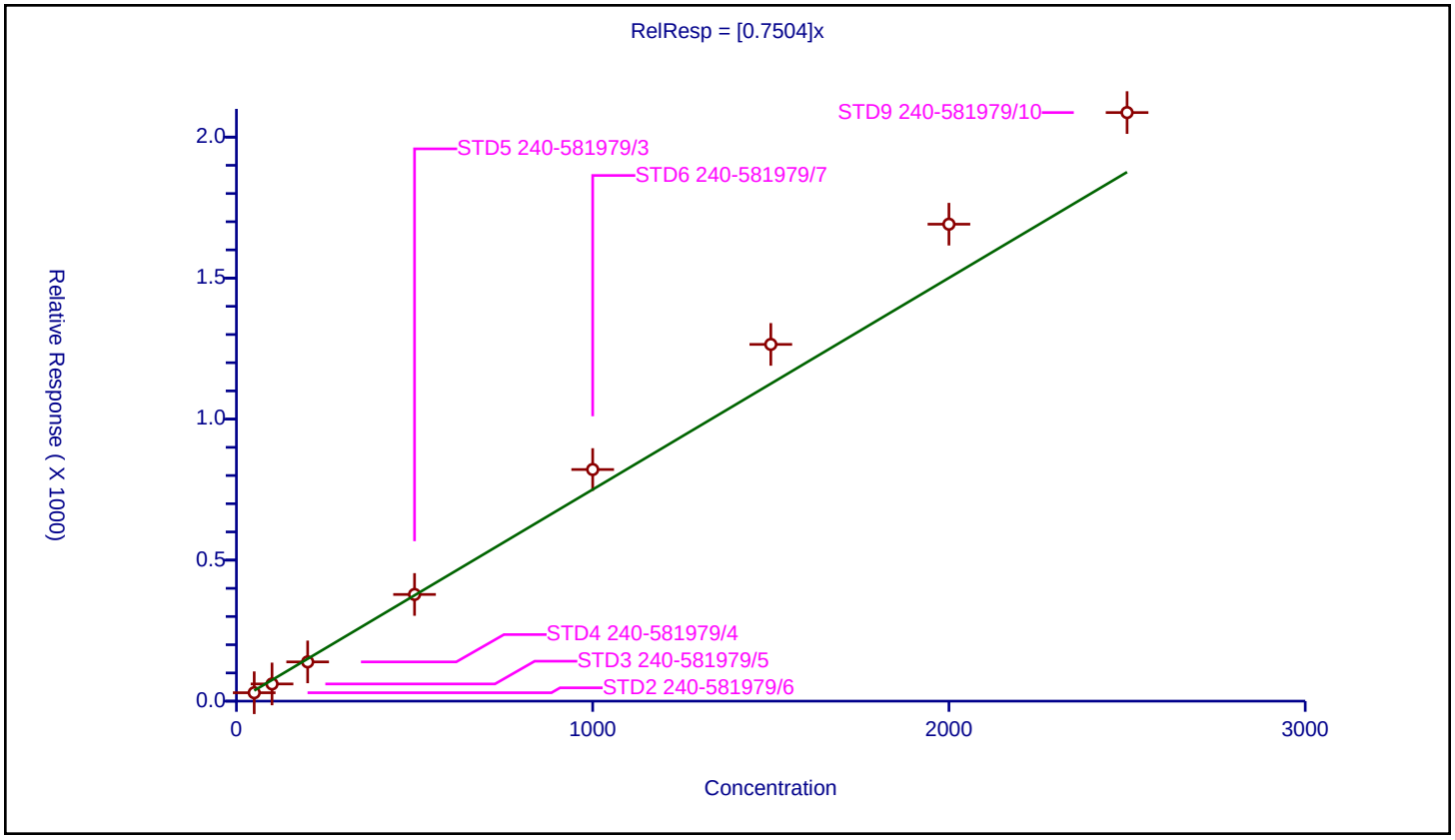
Curve Coefficients

Intercept:	0
Slope:	0.7504

Error Coefficients

Standard Error:	2770000
Relative Standard Error:	13.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.977

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581979/6	50.0	29.814052	400.0	718963.0	0.596281	Y
2	STD3 240-581979/5	100.0	60.972777	400.0	886986.0	0.609728	Y
3	STD4 240-581979/4	200.0	139.119345	400.0	991126.0	0.695597	Y
4	STD5 240-581979/3	500.0	378.252969	400.0	972381.0	0.756506	Y
5	STD6 240-581979/7	1000.0	821.284298	400.0	890572.0	0.821284	Y
6	STD7 240-581979/8	1500.0	1264.923221	400.0	910343.0	0.843282	Y
7	STD8 240-581979/9	2000.0	1691.162519	400.0	951606.0	0.845581	Y
8	STD9 240-581979/10	2500.0	2086.978764	400.0	953934.0	0.834792	Y



8/12/2023
10:47 AM

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

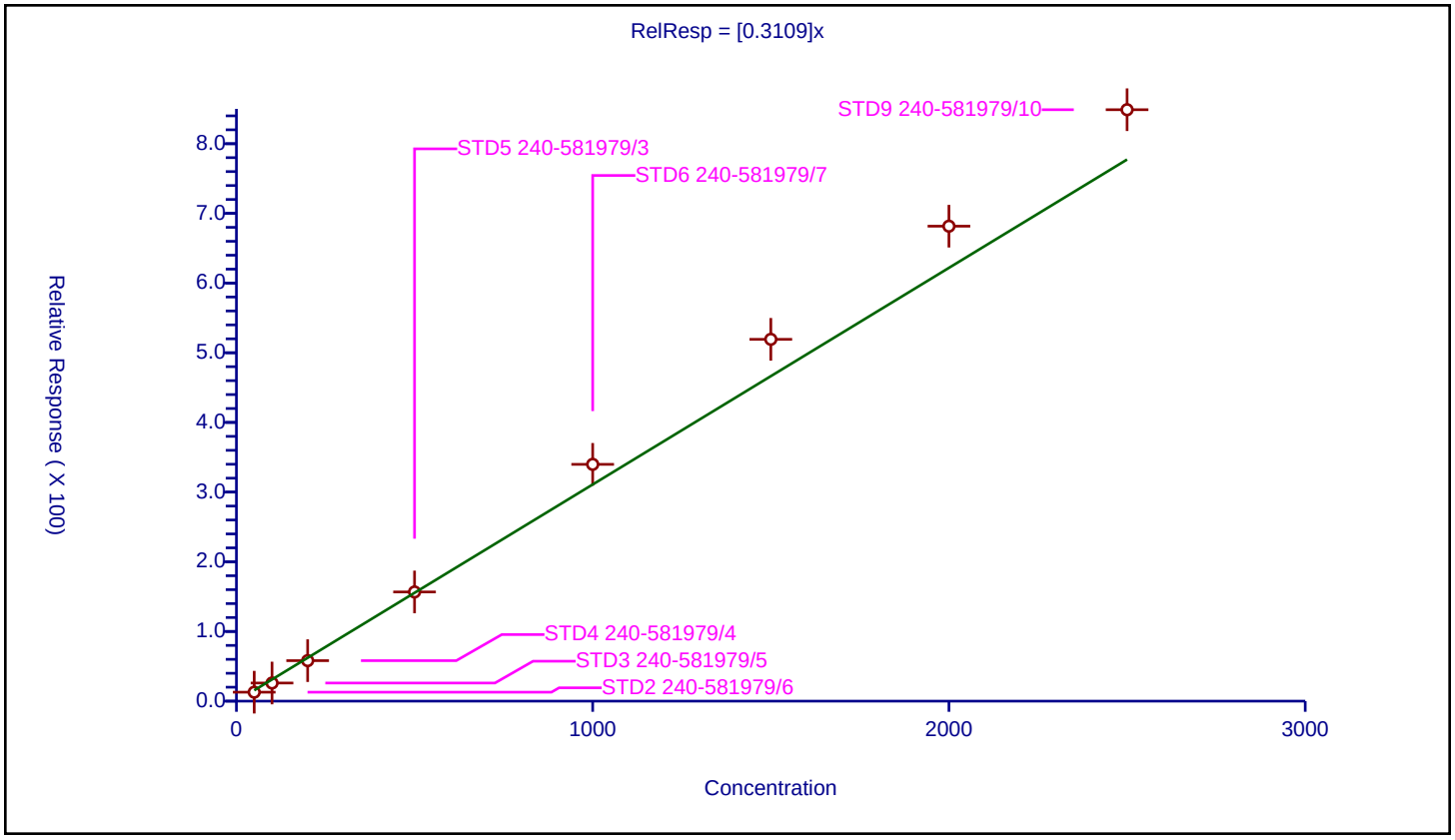
Curve Coefficients

Intercept:	0
Slope:	0.3109

Error Coefficients

Standard Error:	1130000
Relative Standard Error:	12.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581979/6	50.0	12.855738	400.0	718963.0	0.257115	Y
2	STD3 240-581979/5	100.0	26.002214	400.0	886986.0	0.260022	Y
3	STD4 240-581979/4	200.0	58.103611	400.0	991126.0	0.290518	Y
4	STD5 240-581979/3	500.0	156.70154	400.0	972381.0	0.313403	Y
5	STD6 240-581979/7	1000.0	339.825191	400.0	890572.0	0.339825	Y
6	STD7 240-581979/8	1500.0	519.272846	400.0	910343.0	0.346182	Y
7	STD8 240-581979/9	2000.0	681.649758	400.0	951606.0	0.340825	Y
8	STD9 240-581979/10	2500.0	848.817633	400.0	953934.0	0.339527	Y



Calibration / Pentachloronitrobenzene

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

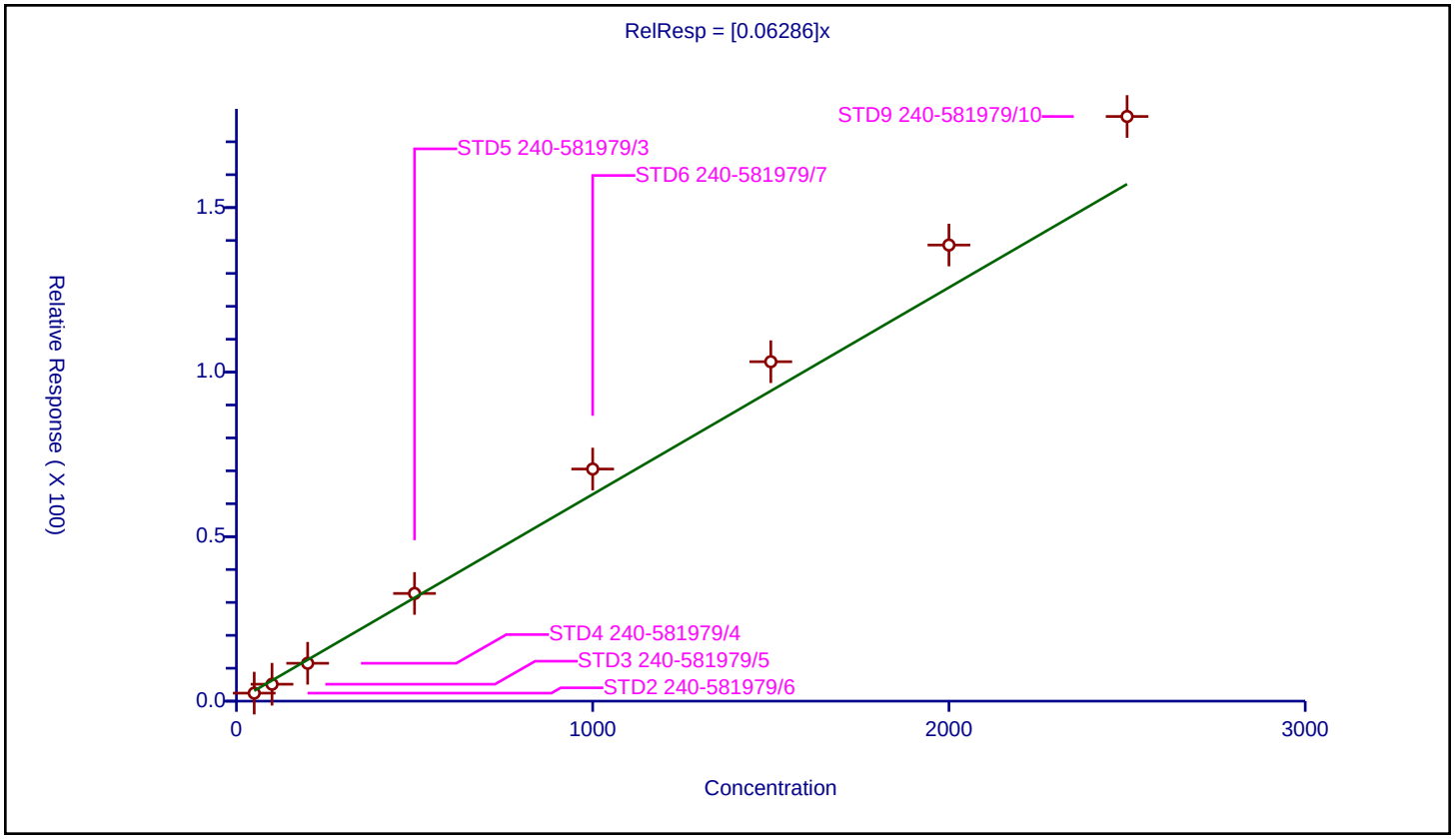
Curve Coefficients

Intercept:	0
Slope:	0.06286

Error Coefficients

Standard Error:	231000
Relative Standard Error:	14.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.976

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581979/6	50.0	2.434618	400.0	718963.0	0.048692	Y
2	STD3 240-581979/5	100.0	5.144162	400.0	886986.0	0.051442	Y
3	STD4 240-581979/4	200.0	11.508123	400.0	991126.0	0.057541	Y
4	STD5 240-581979/3	500.0	32.729969	400.0	972381.0	0.06546	Y
5	STD6 240-581979/7	1000.0	70.541629	400.0	890572.0	0.070542	Y
6	STD7 240-581979/8	1500.0	103.167707	400.0	910343.0	0.068778	Y
7	STD8 240-581979/9	2000.0	138.621656	400.0	951606.0	0.069311	Y
8	STD9 240-581979/10	2500.0	177.693216	400.0	953934.0	0.071077	Y



Calibration / Disulfoton

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

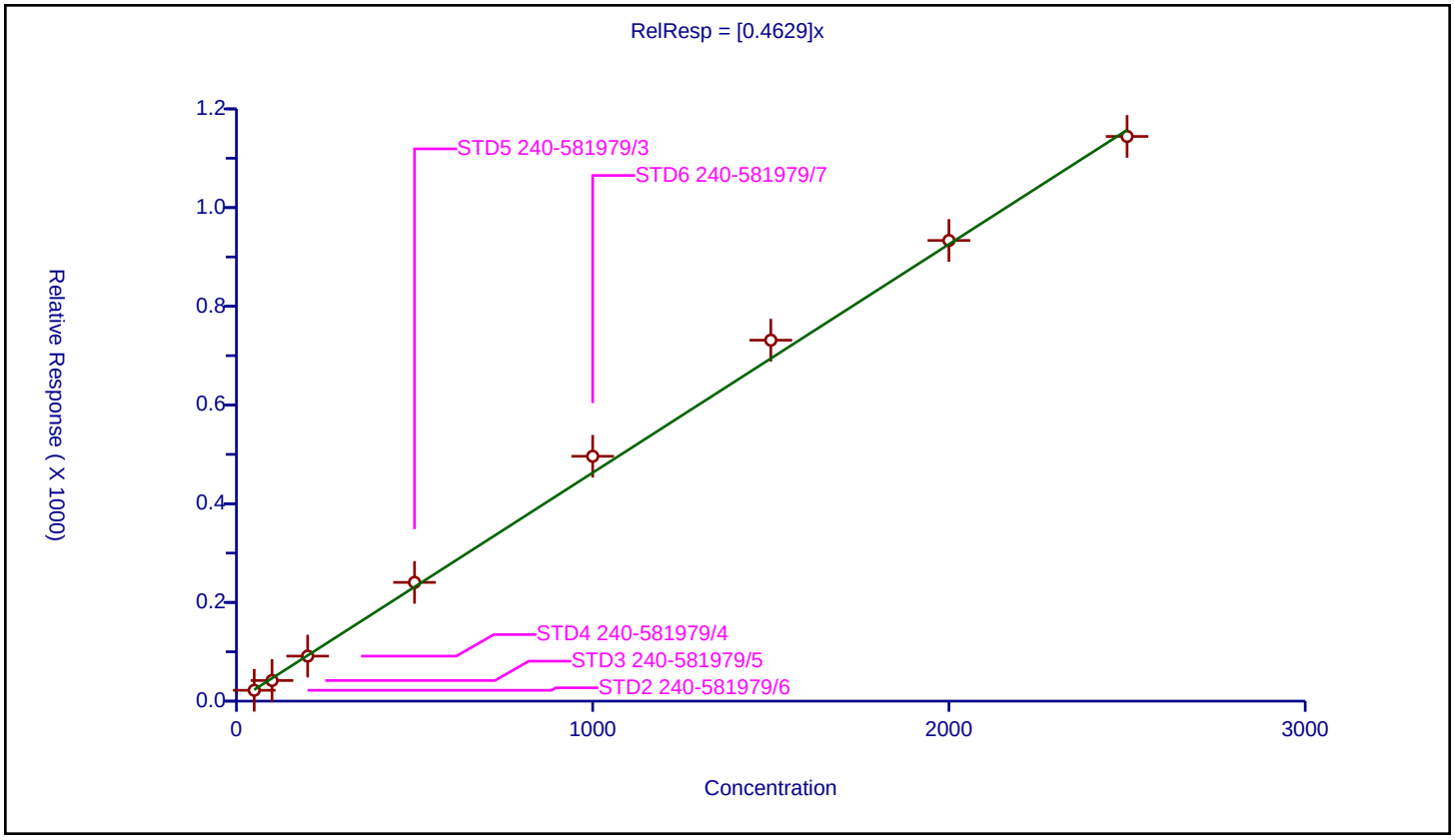
Curve Coefficients

Intercept:	0
Slope:	0.4629

Error Coefficients

Standard Error:	1550000
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	STD2 240-581979/6	50.0	21.974427	400.0	718963.0	0.439489	Y
2	STD3 240-581979/5	100.0	41.781945	400.0	886986.0	0.417819	Y
3	STD4 240-581979/4	200.0	91.24975	400.0	991126.0	0.456249	Y
4	STD5 240-581979/3	500.0	240.629547	400.0	972381.0	0.481259	Y
5	STD6 240-581979/7	1000.0	496.106323	400.0	890572.0	0.496106	Y
6	STD7 240-581979/8	1500.0	731.364332	400.0	910343.0	0.487576	Y
7	STD8 240-581979/9	2000.0	933.424968	400.0	951606.0	0.466712	Y
8	STD9 240-581979/10	2500.0	1144.21417	400.0	953934.0	0.457686	Y



8/12/2023
10:47 AM

Calibration / Dinoseb

Curve Type:	Quadratic
Weighting:	None
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

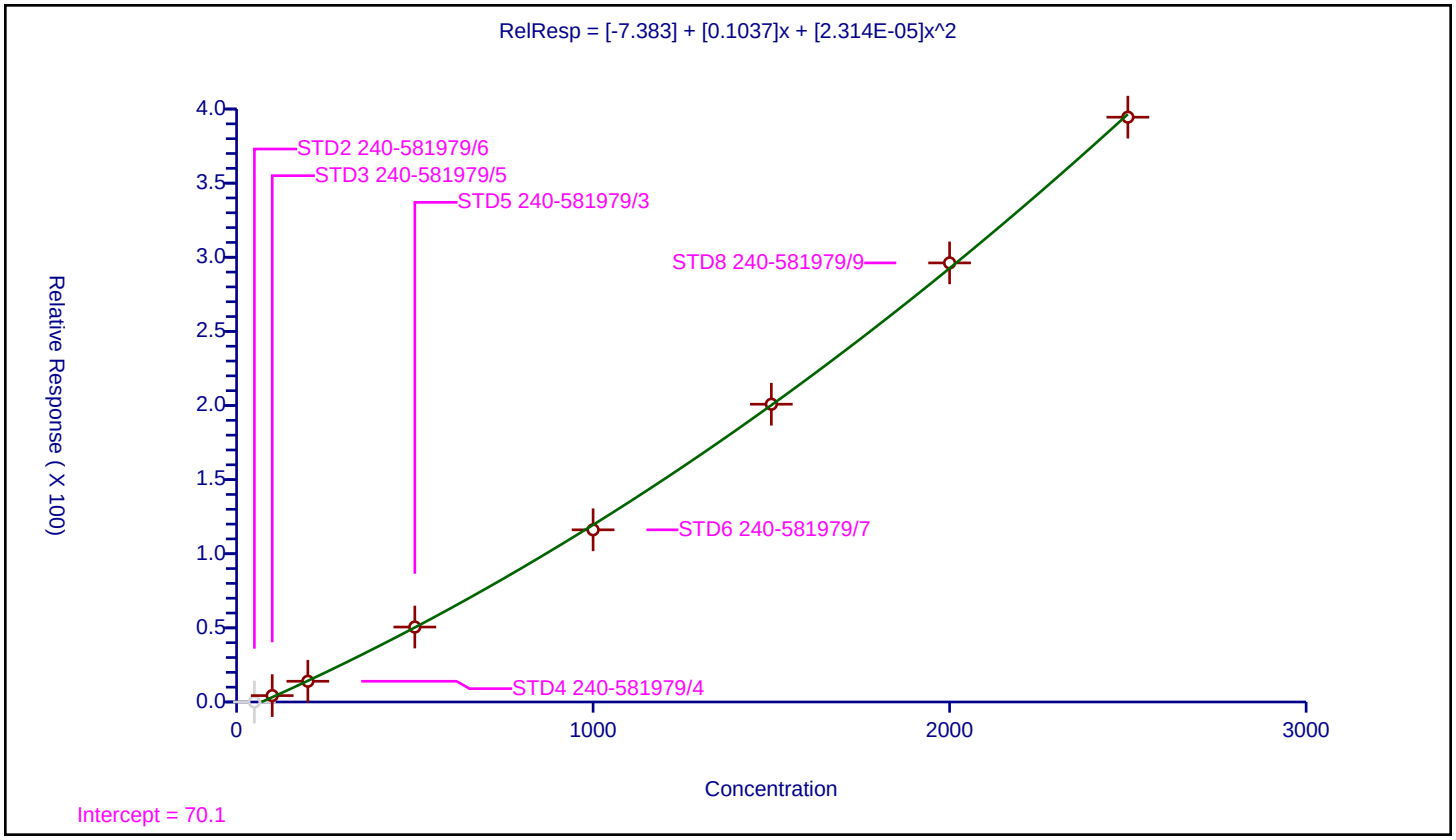
Curve Coefficients

Intercept:	-7.383
Slope:	0.1037
Second Order:	2.314E-05

Error Coefficients

Standard Error:	647000
Relative Standard Error:	5.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581979/6	50.0	0.0	400.0	718963.0	0.0	N
2	STD3 240-581979/5	100.0	4.309425	400.0	886986.0	0.043094	Y
3	STD4 240-581979/4	200.0	13.985306	400.0	991126.0	0.069927	Y
4	STD5 240-581979/3	500.0	50.561251	400.0	972381.0	0.101123	Y
5	STD6 240-581979/7	1000.0	116.146477	400.0	890572.0	0.116146	Y
6	STD7 240-581979/8	1500.0	200.866267	400.0	910343.0	0.133911	Y
7	STD8 240-581979/9	2000.0	296.182664	400.0	951606.0	0.148091	Y
8	STD9 240-581979/10	2500.0	394.491023	400.0	953934.0	0.157796	Y



Calibration / Methyl parathion

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

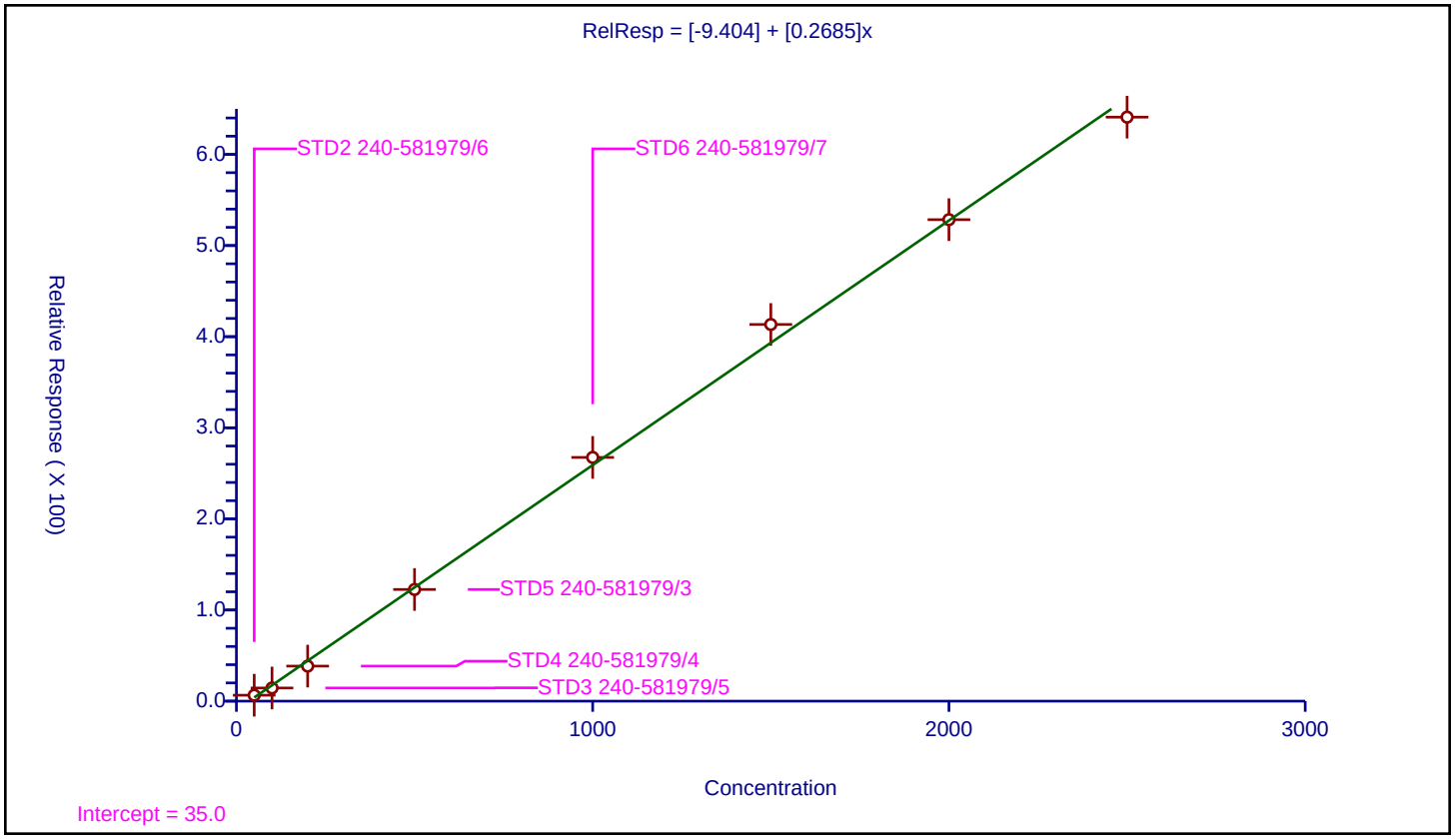
Curve Coefficients

Intercept:	-9.404
Slope:	0.2685

Error Coefficients

Standard Error:	936000
Relative Standard Error:	10.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581979/6	50.0	6.507706	400.0	718963.0	0.130154	Y
2	STD3 240-581979/5	100.0	14.43901	400.0	886986.0	0.14439	Y
3	STD4 240-581979/4	200.0	38.463324	400.0	991126.0	0.192317	Y
4	STD5 240-581979/3	500.0	122.541267	400.0	972381.0	0.245083	Y
5	STD6 240-581979/7	1000.0	267.48337	400.0	890572.0	0.267483	Y
6	STD7 240-581979/8	1500.0	413.391436	400.0	910343.0	0.275594	Y
7	STD8 240-581979/9	2000.0	528.417013	400.0	951606.0	0.264209	Y
8	STD9 240-581979/10	2500.0	640.948326	400.0	953934.0	0.256379	Y



Calibration / Ethyl Parathion

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

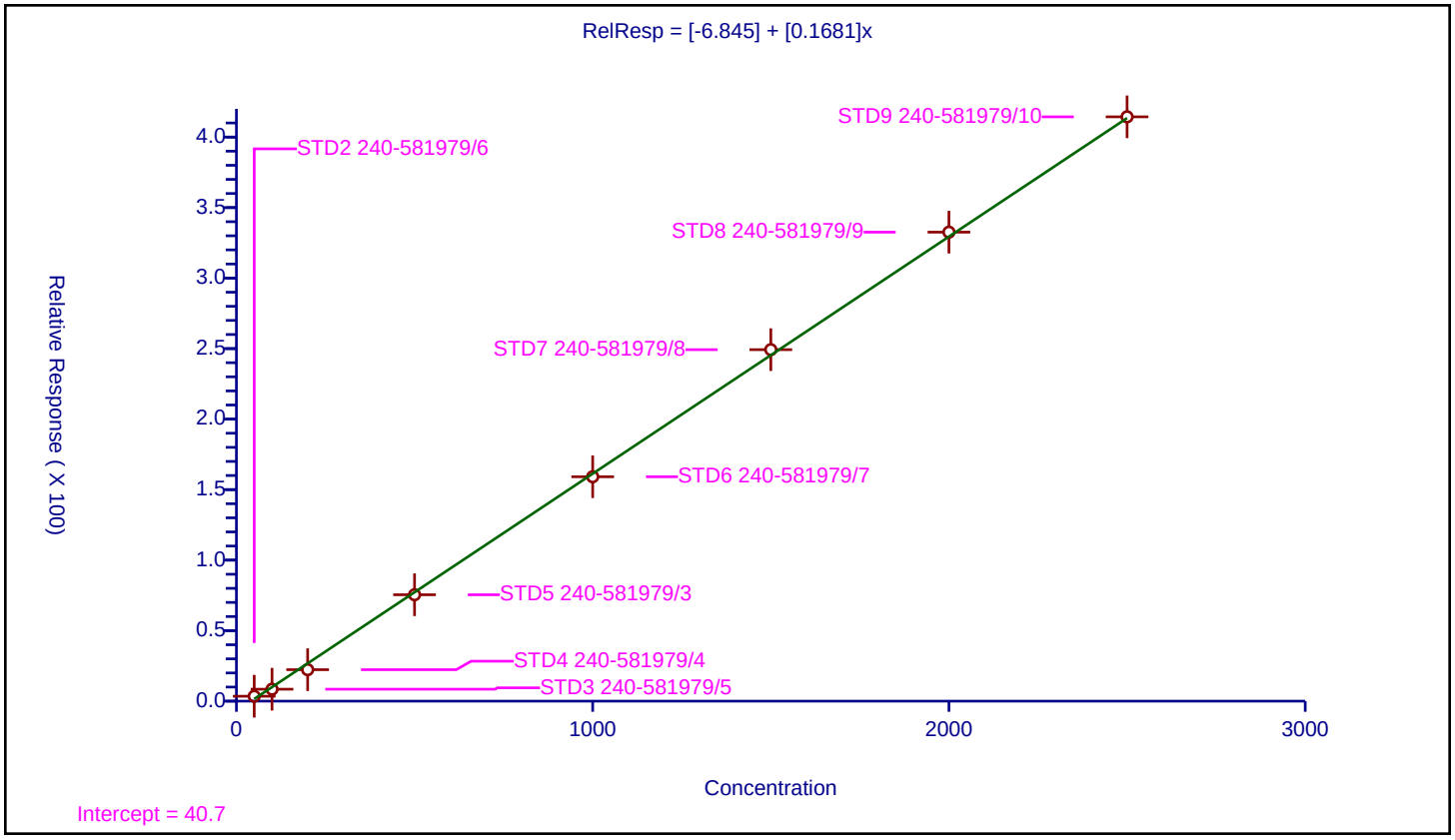
Curve Coefficients

Intercept:	-6.845
Slope:	0.1681

Error Coefficients

Standard Error:	590000
Relative Standard Error:	11.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581979/6	50.0	3.487245	400.0	718963.0	0.069745	Y
2	STD3 240-581979/5	100.0	8.465072	400.0	886986.0	0.084651	Y
3	STD4 240-581979/4	200.0	22.311997	400.0	991126.0	0.11156	Y
4	STD5 240-581979/3	500.0	75.445324	400.0	972381.0	0.150891	Y
5	STD6 240-581979/7	1000.0	159.127841	400.0	890572.0	0.159128	Y
6	STD7 240-581979/8	1500.0	249.256819	400.0	910343.0	0.166171	Y
7	STD8 240-581979/9	2000.0	332.588487	400.0	951606.0	0.166294	Y
8	STD9 240-581979/10	2500.0	414.371644	400.0	953934.0	0.165749	Y



Calibration / 4-Nitroquinoline-1-oxide

Curve Type:	Quadratic
Weighting:	None
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

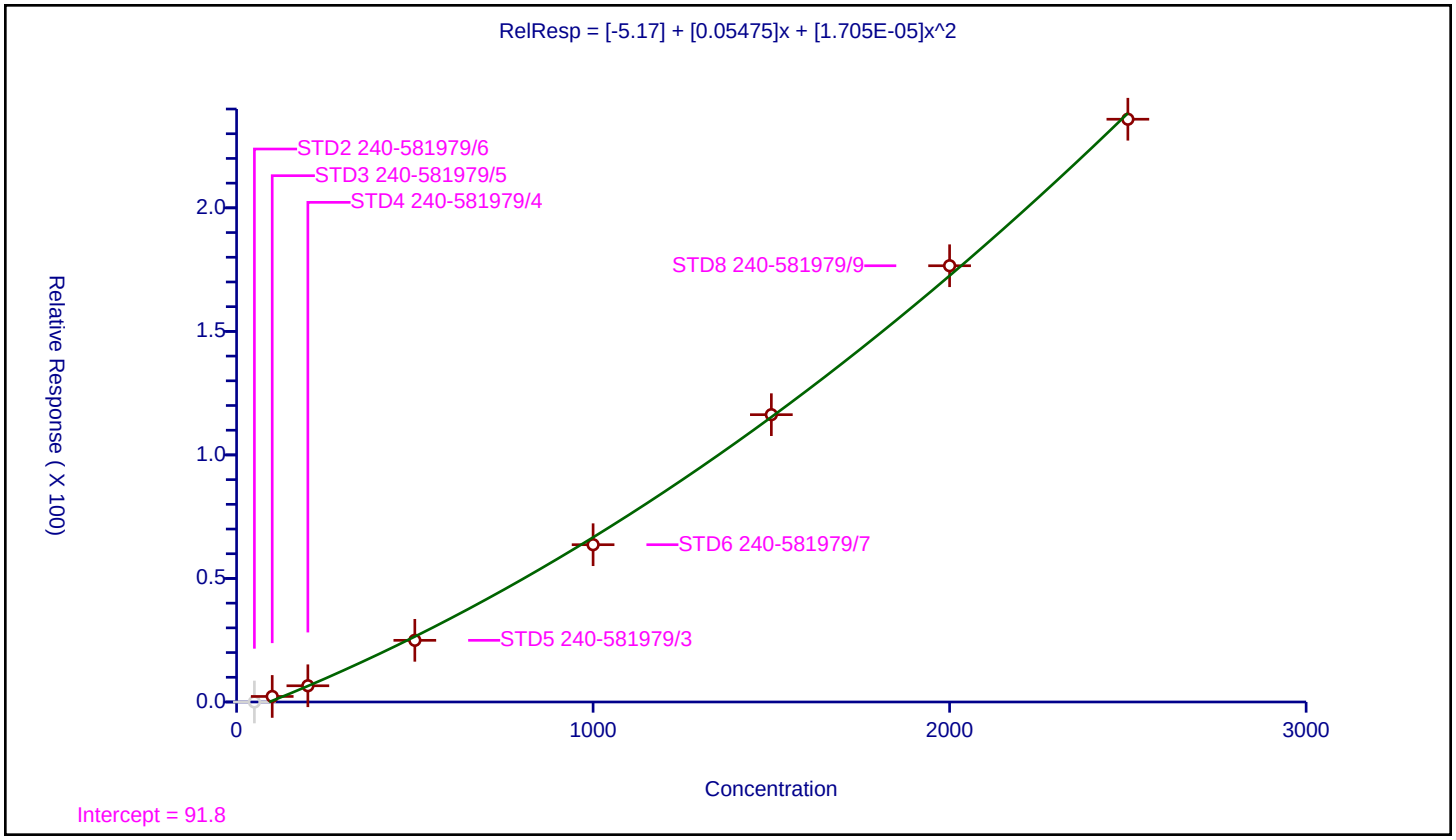
Curve Coefficients

Intercept:	-5.17
Slope:	0.05475
Second Order:	1.705E-05

Error Coefficients

Standard Error:	383000
Relative Standard Error:	15.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581979/6	50.0	0.0	400.0	718963.0	0.0	N
2	STD3 240-581979/5	100.0	2.241749	400.0	886986.0	0.022417	Y
3	STD4 240-581979/4	200.0	6.569498	400.0	991126.0	0.032847	Y
4	STD5 240-581979/3	500.0	24.960998	400.0	972381.0	0.049922	Y
5	STD6 240-581979/7	1000.0	63.662006	400.0	890572.0	0.063662	Y
6	STD7 240-581979/8	1500.0	116.284521	400.0	910343.0	0.077523	Y
7	STD8 240-581979/9	2000.0	176.572237	400.0	951606.0	0.088286	Y
8	STD9 240-581979/10	2500.0	235.866632	400.0	953934.0	0.094347	Y



Calibration / Methapyrilene

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

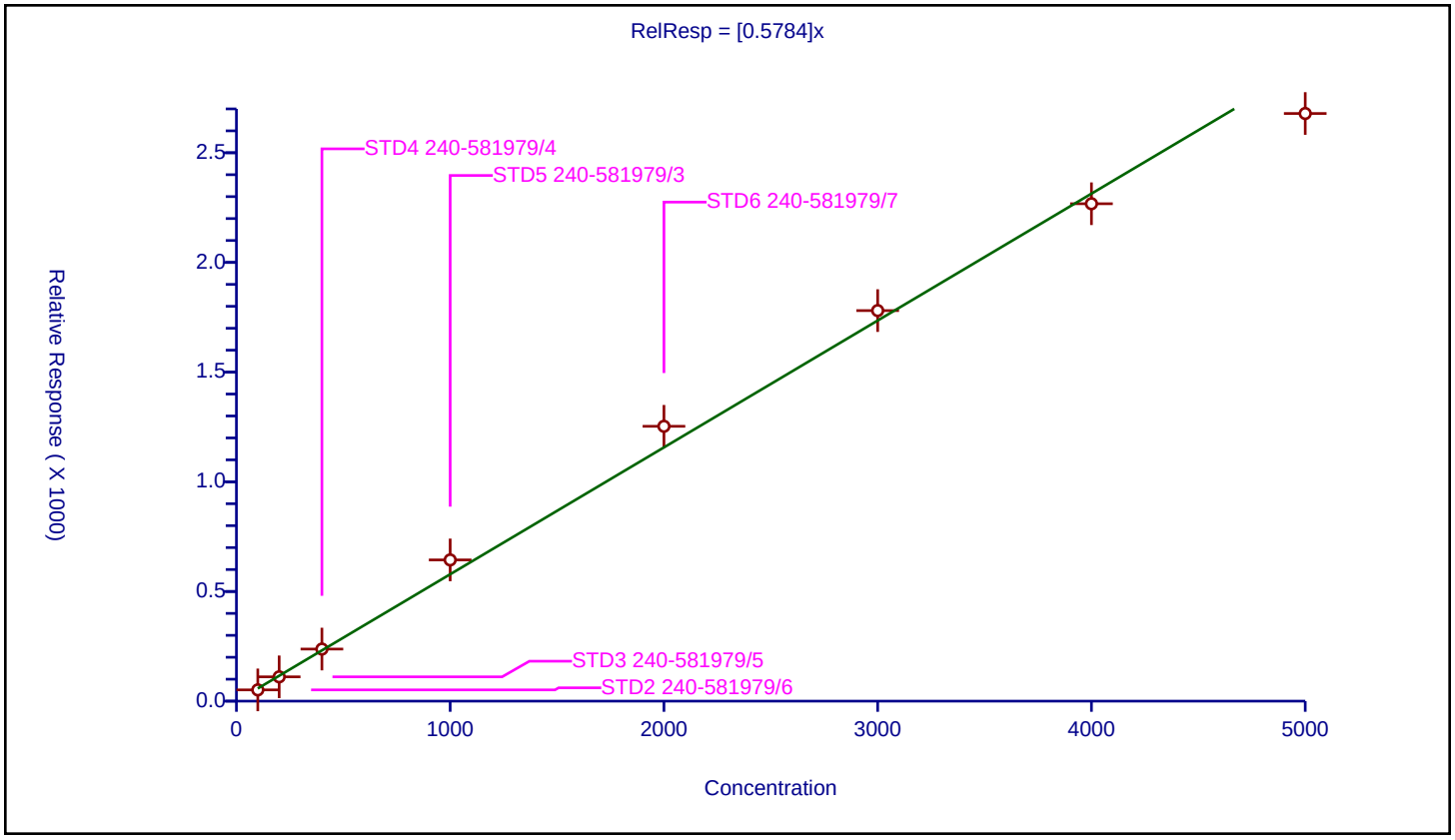
Curve Coefficients

Intercept:	0
Slope:	0.5784

Error Coefficients

Standard Error:	3720000
Relative Standard Error:	7.7
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581979/6	100.0	51.327815	400.0	718963.0	0.513278	Y
2	STD3 240-581979/5	200.0	110.763868	400.0	886986.0	0.553819	Y
3	STD4 240-581979/4	400.0	237.389393	400.0	991126.0	0.593473	Y
4	STD5 240-581979/3	1000.0	643.783867	400.0	972381.0	0.643784	Y
5	STD6 240-581979/7	2000.0	1253.016713	400.0	890572.0	0.626508	Y
6	STD7 240-581979/8	3000.0	1780.491529	400.0	910343.0	0.593497	Y
7	STD8 240-581979/9	4000.0	2267.631352	400.0	951606.0	0.566908	Y
8	STD9 240-581979/10	5000.0	2678.981984	400.0	953934.0	0.535796	Y



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

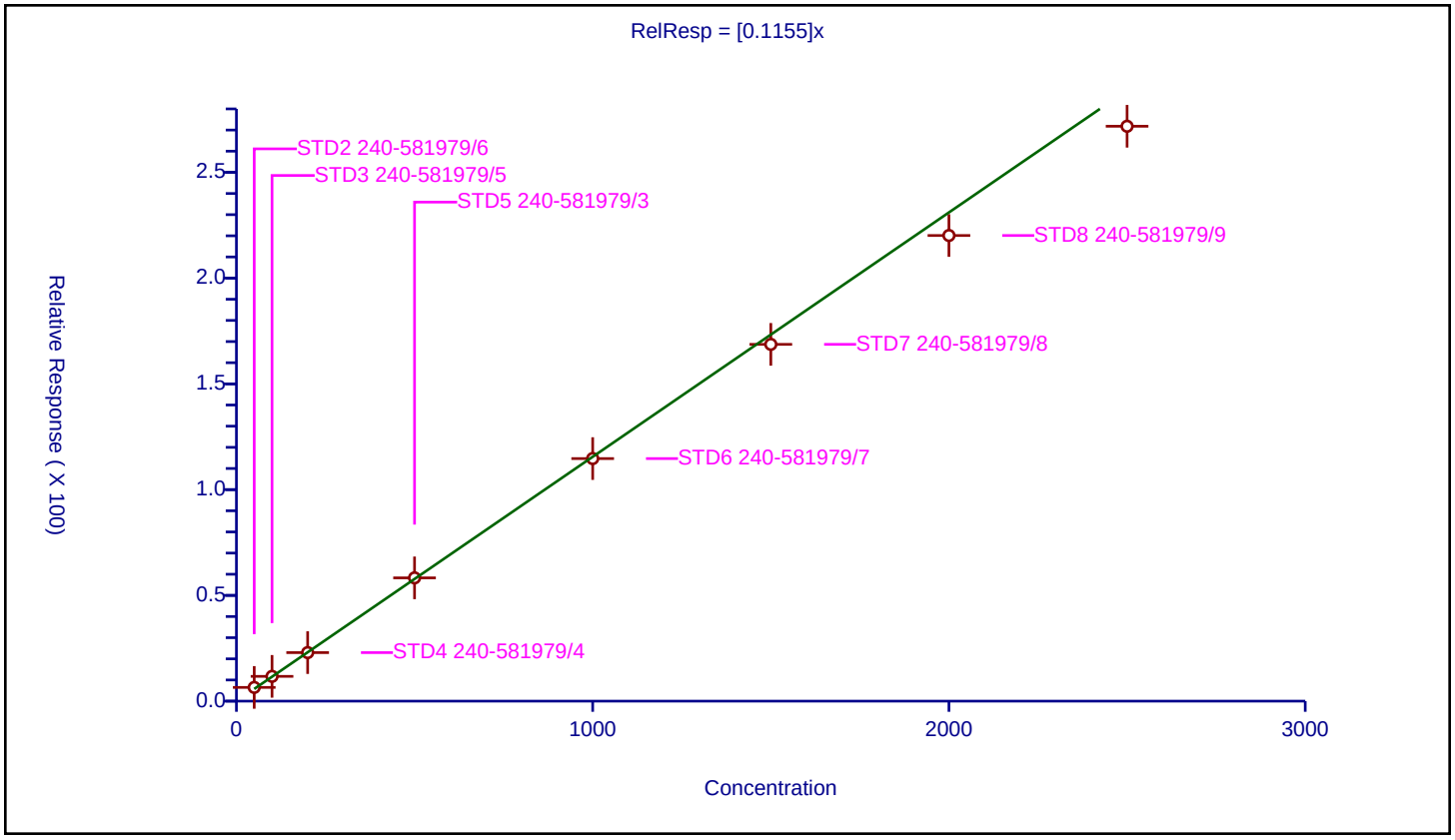
Curve Coefficients

Intercept:	0
Slope:	0.1155

Error Coefficients

Standard Error:	365000
Relative Standard Error:	5.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581979/6	50.0	6.490459	400.0	718963.0	0.129809	Y
2	STD3 240-581979/5	100.0	11.712924	400.0	886986.0	0.117129	Y
3	STD4 240-581979/4	200.0	22.947637	400.0	991126.0	0.114738	Y
4	STD5 240-581979/3	500.0	58.283739	400.0	972381.0	0.116567	Y
5	STD6 240-581979/7	1000.0	114.675512	400.0	890572.0	0.114676	Y
6	STD7 240-581979/8	1500.0	168.680596	400.0	910343.0	0.112454	Y
7	STD8 240-581979/9	2000.0	220.140688	400.0	951606.0	0.11007	Y
8	STD9 240-581979/10	2500.0	271.786518	400.0	953934.0	0.108715	Y



Calibration / Aramite Peak 1

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

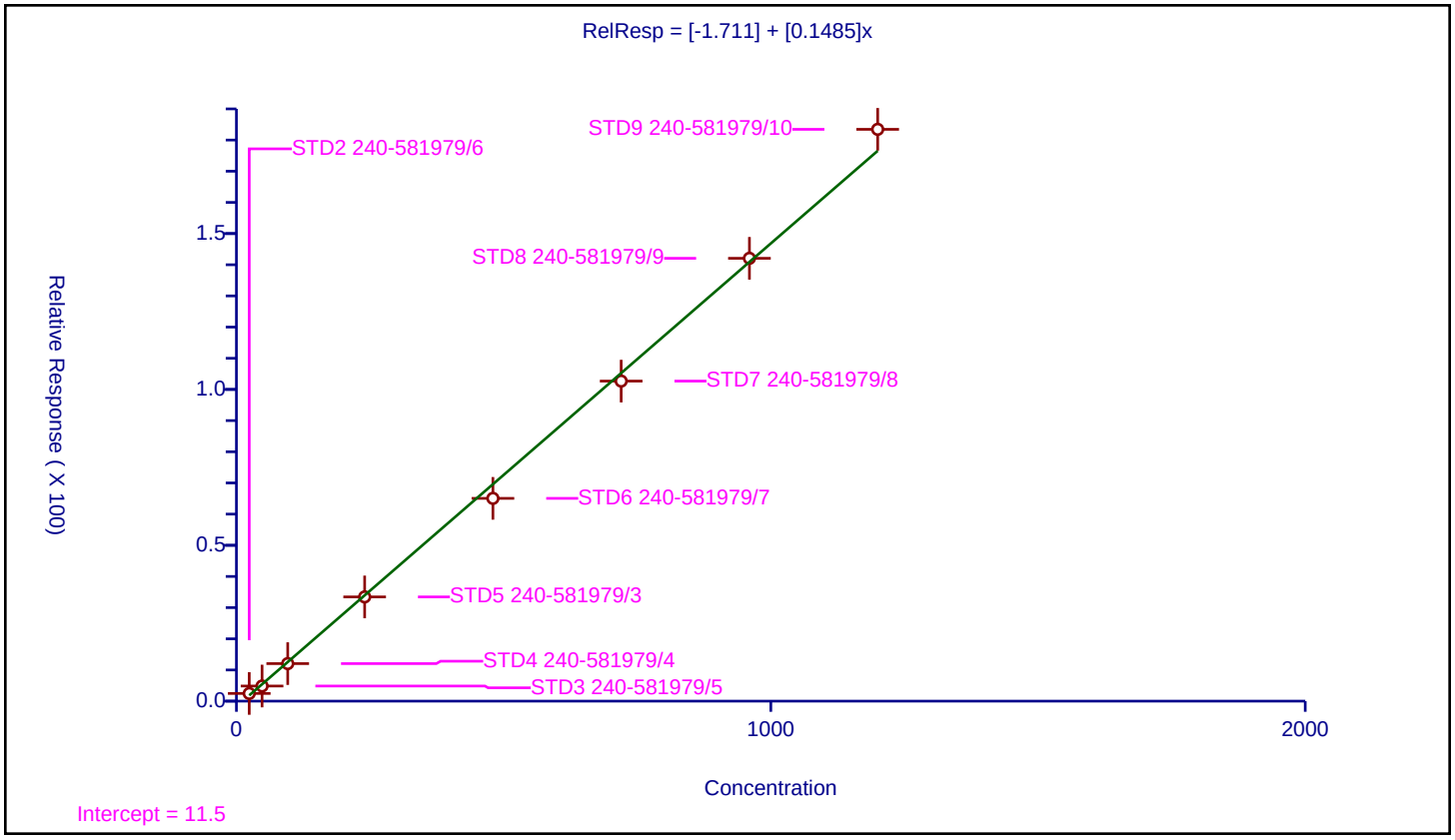
Curve Coefficients

Intercept:	-1.711
Slope:	0.1485

Error Coefficients

Standard Error:	170000
Relative Standard Error:	8.5
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581979/6	24.0	2.461419	400.0	474848.0	0.102559	Y
2	STD3 240-581979/5	48.0	4.850424	400.0	546179.0	0.101051	Y
3	STD4 240-581979/4	96.0	12.039763	400.0	613135.0	0.125414	Y
4	STD5 240-581979/3	240.0	33.437123	400.0	604430.0	0.139321	Y
5	STD6 240-581979/7	480.0	65.056124	400.0	582992.0	0.135534	Y
6	STD7 240-581979/8	720.0	102.672743	400.0	610908.0	0.142601	Y
7	STD8 240-581979/9	960.0	142.069025	400.0	644864.0	0.147989	Y
8	STD9 240-581979/10	1200.0	183.441391	400.0	635464.0	0.152868	Y



8/12/2023
10:47 AM

Calibration / Aramite Peak 2

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

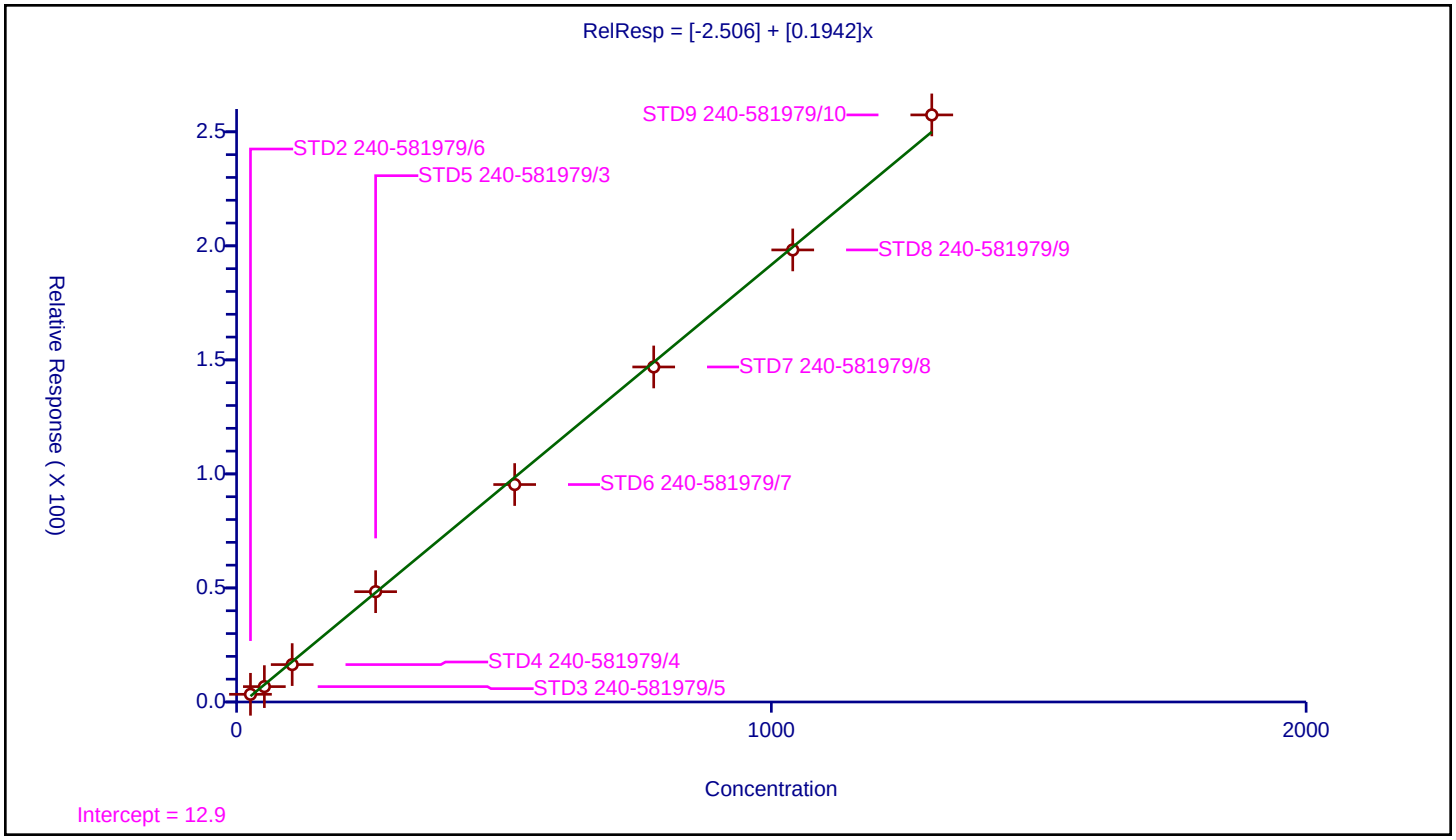
Curve Coefficients

Intercept:	-2.506
Slope:	0.1942

Error Coefficients

Standard Error:	240000
Relative Standard Error:	8.2
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581979/6	26.0	3.367815	400.0	474848.0	0.129531	Y
2	STD3 240-581979/5	52.0	6.737718	400.0	546179.0	0.129571	Y
3	STD4 240-581979/4	104.0	16.39378	400.0	613135.0	0.157632	Y
4	STD5 240-581979/3	260.0	48.368215	400.0	604430.0	0.186032	Y
5	STD6 240-581979/7	520.0	95.342646	400.0	582992.0	0.183351	Y
6	STD7 240-581979/8	780.0	146.898715	400.0	610908.0	0.188332	Y
7	STD8 240-581979/9	1040.0	198.222261	400.0	644864.0	0.190598	Y
8	STD9 240-581979/10	1300.0	257.41946	400.0	635464.0	0.198015	Y



Calibration / p-Dimethylamino azobenzene

Curve Type:	Quadratic
Weighting:	None
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

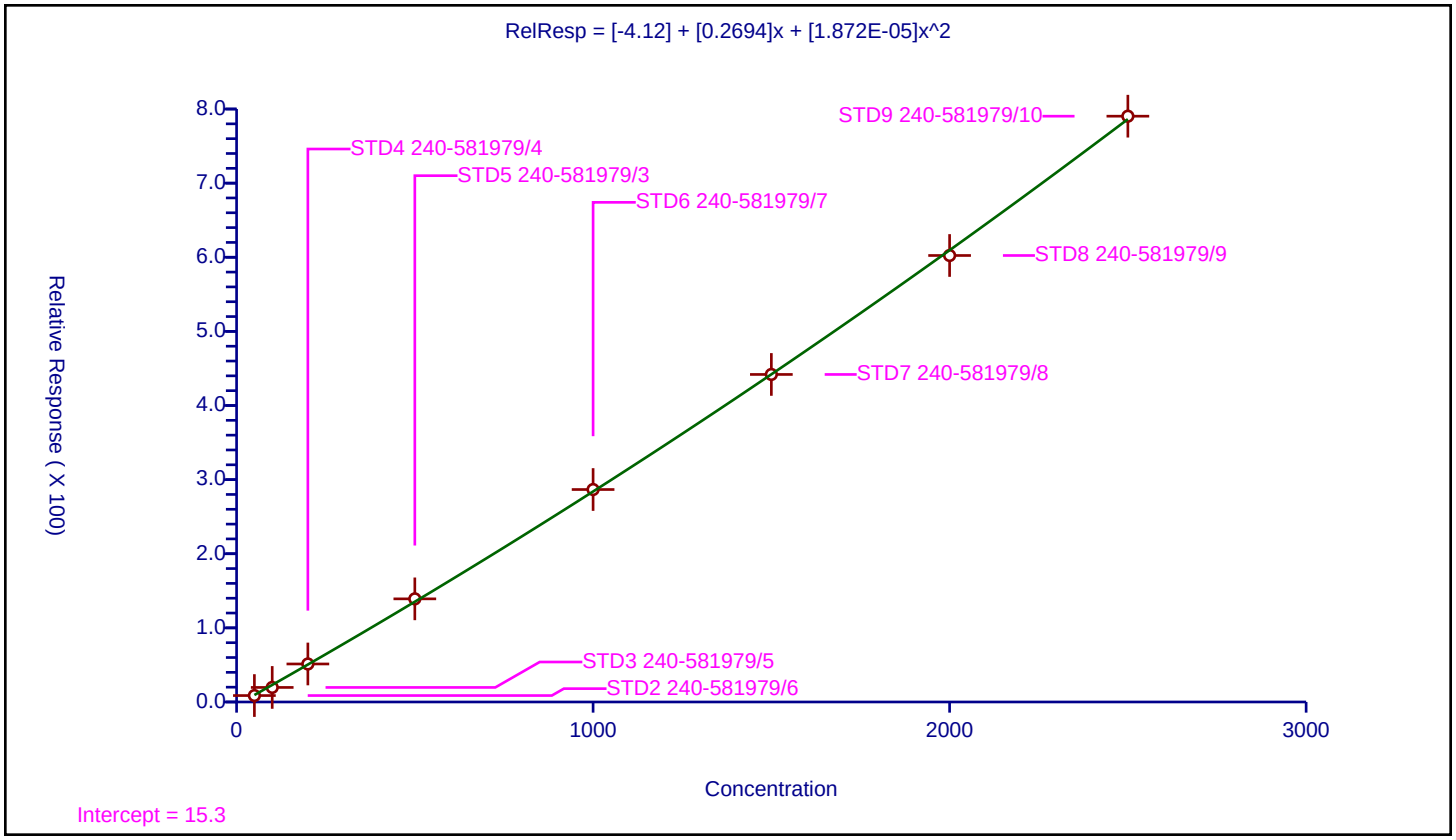
Curve Coefficients

Intercept:	-4.12
Slope:	0.2694
Second Order:	1.872E-05

Error Coefficients

Standard Error:	800000
Relative Standard Error:	6.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581979/6	50.0	8.676461	400.0	474848.0	0.173529	Y
2	STD3 240-581979/5	100.0	19.611885	400.0	546179.0	0.196119	Y
3	STD4 240-581979/4	200.0	51.300937	400.0	613135.0	0.256505	Y
4	STD5 240-581979/3	500.0	139.132737	400.0	604430.0	0.278265	Y
5	STD6 240-581979/7	1000.0	286.630348	400.0	582992.0	0.28663	Y
6	STD7 240-581979/8	1500.0	441.89698	400.0	610908.0	0.294598	Y
7	STD8 240-581979/9	2000.0	602.380657	400.0	644864.0	0.30119	Y
8	STD9 240-581979/10	2500.0	790.33651	400.0	635464.0	0.316135	Y



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

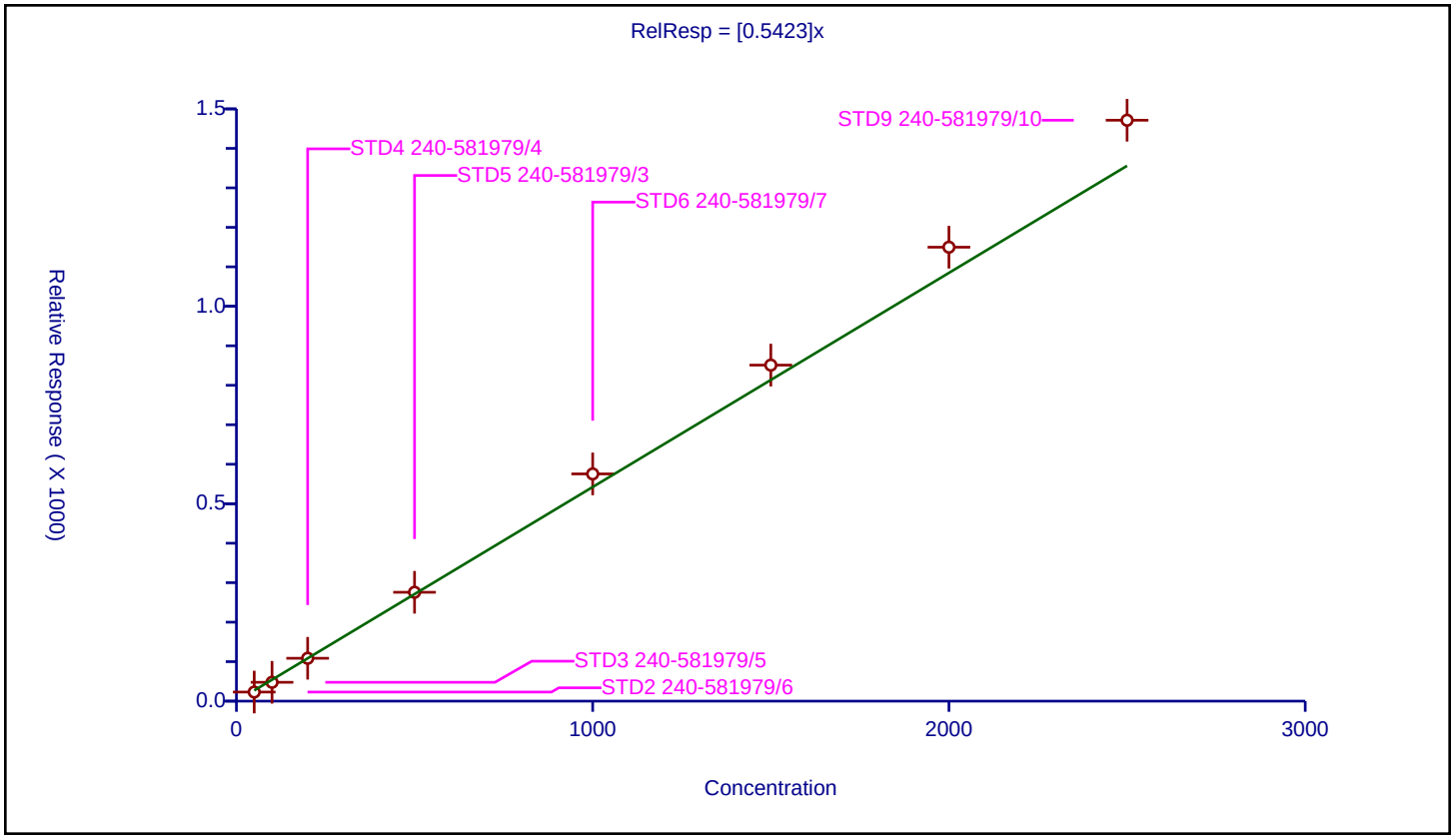
Curve Coefficients

Intercept:	0
Slope:	0.5423

Error Coefficients

Standard Error:	1280000
Relative Standard Error:	8.8
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581979/6	50.0	23.044848	400.0	474848.0	0.460897	Y
2	STD3 240-581979/5	100.0	47.715493	400.0	546179.0	0.477155	Y
3	STD4 240-581979/4	200.0	108.562062	400.0	613135.0	0.54281	Y
4	STD5 240-581979/3	500.0	275.728207	400.0	604430.0	0.551456	Y
5	STD6 240-581979/7	1000.0	575.533798	400.0	582992.0	0.575534	Y
6	STD7 240-581979/8	1500.0	851.095746	400.0	610908.0	0.567397	Y
7	STD8 240-581979/9	2000.0	1149.712187	400.0	644864.0	0.574856	Y
8	STD9 240-581979/10	2500.0	1471.293417	400.0	635464.0	0.588517	Y



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

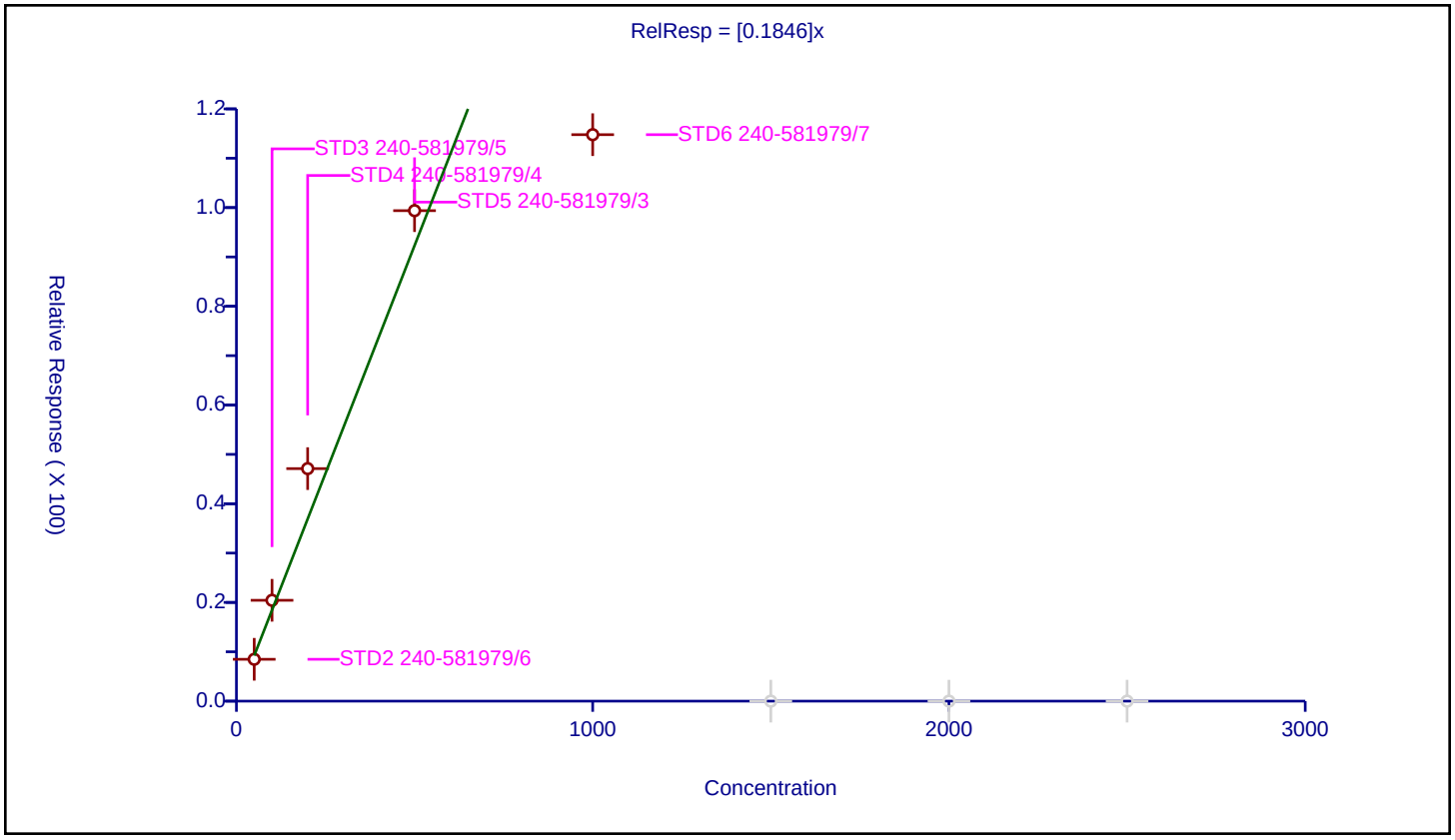
Curve Coefficients

Intercept:	0
Slope:	0.1846

Error Coefficients

Standard Error:	119000
Relative Standard Error:	24.7
Correlation Coefficient:	0.837
Coefficient of Determination (Adjusted):	0.900

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581979/6	50.0	8.482714	400.0	474848.0	0.169654	Y
2	STD3 240-581979/5	100.0	20.432862	400.0	546179.0	0.204329	Y
3	STD4 240-581979/4	200.0	47.111974	400.0	613135.0	0.23556	Y
4	STD5 240-581979/3	500.0	99.377595	400.0	604430.0	0.198755	Y
5	STD6 240-581979/7	1000.0	114.776875	400.0	582992.0	0.114777	Y
6	STD7 240-581979/8	1500.0	0.0	400.0	610908.0	0.0	N
7	STD8 240-581979/9	2000.0	0.0	400.0	644864.0	0.0	N
8	STD9 240-581979/10	2500.0	0.0	400.0	635464.0	0.0	N



Calibration / 3,3'-Dimethylbenzidine

Curve Type:	Quadratic
Weighting:	None
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

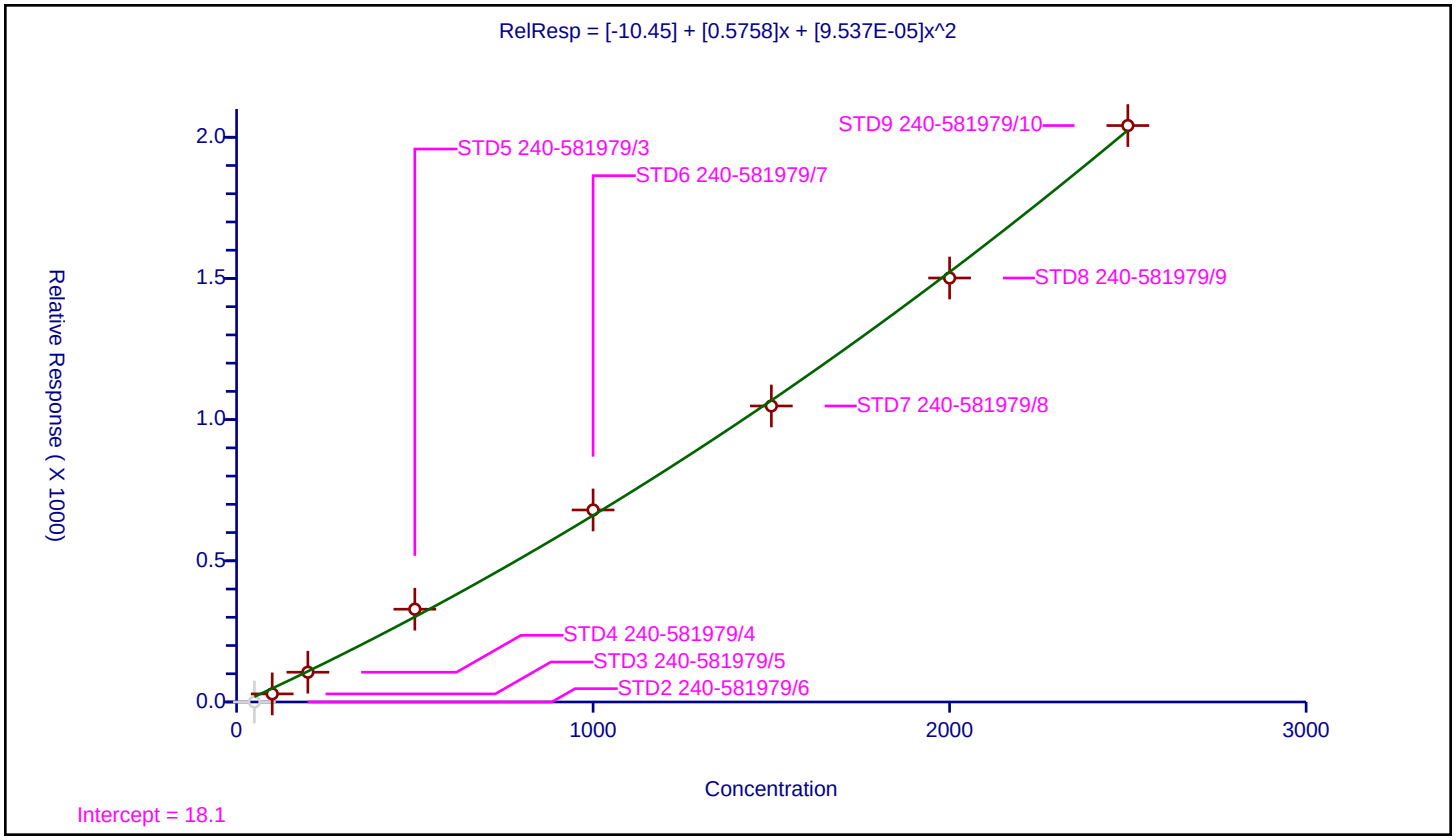
Curve Coefficients

Intercept:	-10.45
Slope:	0.5758
Second Order:	9.537E-05

Error Coefficients

Standard Error:	2250000
Relative Standard Error:	17.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581979/6	50.0	0.0	400.0	474848.0	0.0	N
2	STD3 240-581979/5	100.0	28.708537	400.0	546179.0	0.287085	Y
3	STD4 240-581979/4	200.0	105.4267	400.0	613135.0	0.527134	Y
4	STD5 240-581979/3	500.0	328.58197	400.0	604430.0	0.657164	Y
5	STD6 240-581979/7	1000.0	680.047068	400.0	582992.0	0.680047	Y
6	STD7 240-581979/8	1500.0	1048.345741	400.0	610908.0	0.698897	Y
7	STD8 240-581979/9	2000.0	1501.580488	400.0	644864.0	0.75079	Y
8	STD9 240-581979/10	2500.0	2041.419813	400.0	635464.0	0.816568	Y



Calibration / 2-Acetylaminofluorene

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

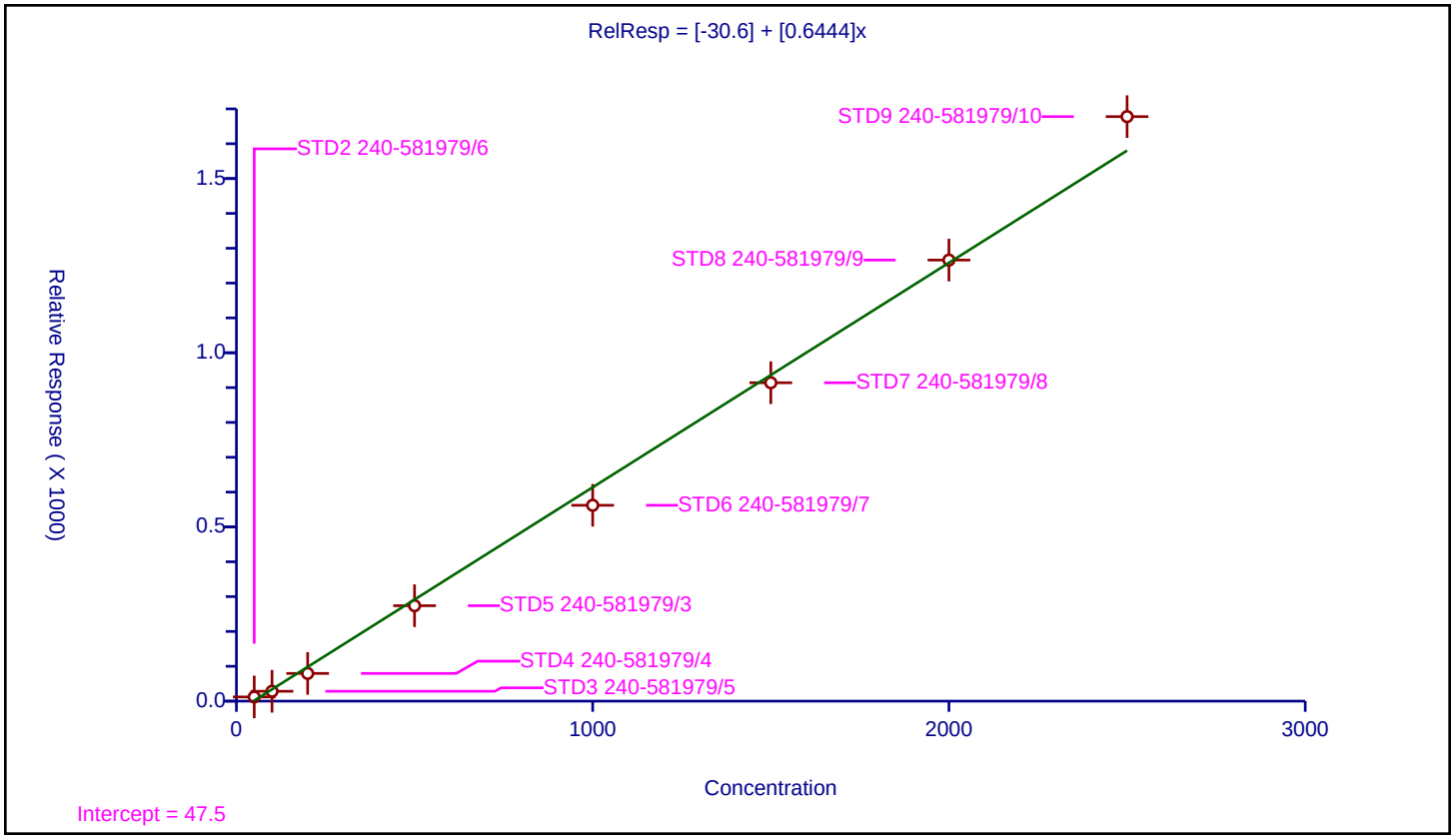
Curve Coefficients

Intercept:	-30.6
Slope:	0.6444

Error Coefficients

Standard Error:	1530000
Relative Standard Error:	15.6
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581979/6	50.0	12.004684	400.0	474848.0	0.240094	Y
2	STD3 240-581979/5	100.0	28.329906	400.0	546179.0	0.283299	Y
3	STD4 240-581979/4	200.0	79.53224	400.0	613135.0	0.397661	Y
4	STD5 240-581979/3	500.0	273.976474	400.0	604430.0	0.547953	Y
5	STD6 240-581979/7	1000.0	562.217663	400.0	582992.0	0.562218	Y
6	STD7 240-581979/8	1500.0	913.931394	400.0	610908.0	0.609288	Y
7	STD8 240-581979/9	2000.0	1266.075948	400.0	644864.0	0.633038	Y
8	STD9 240-581979/10	2500.0	1677.837297	400.0	635464.0	0.671135	Y



Calibration / 4,4'-Methylene bis(2-chloroaniline)

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

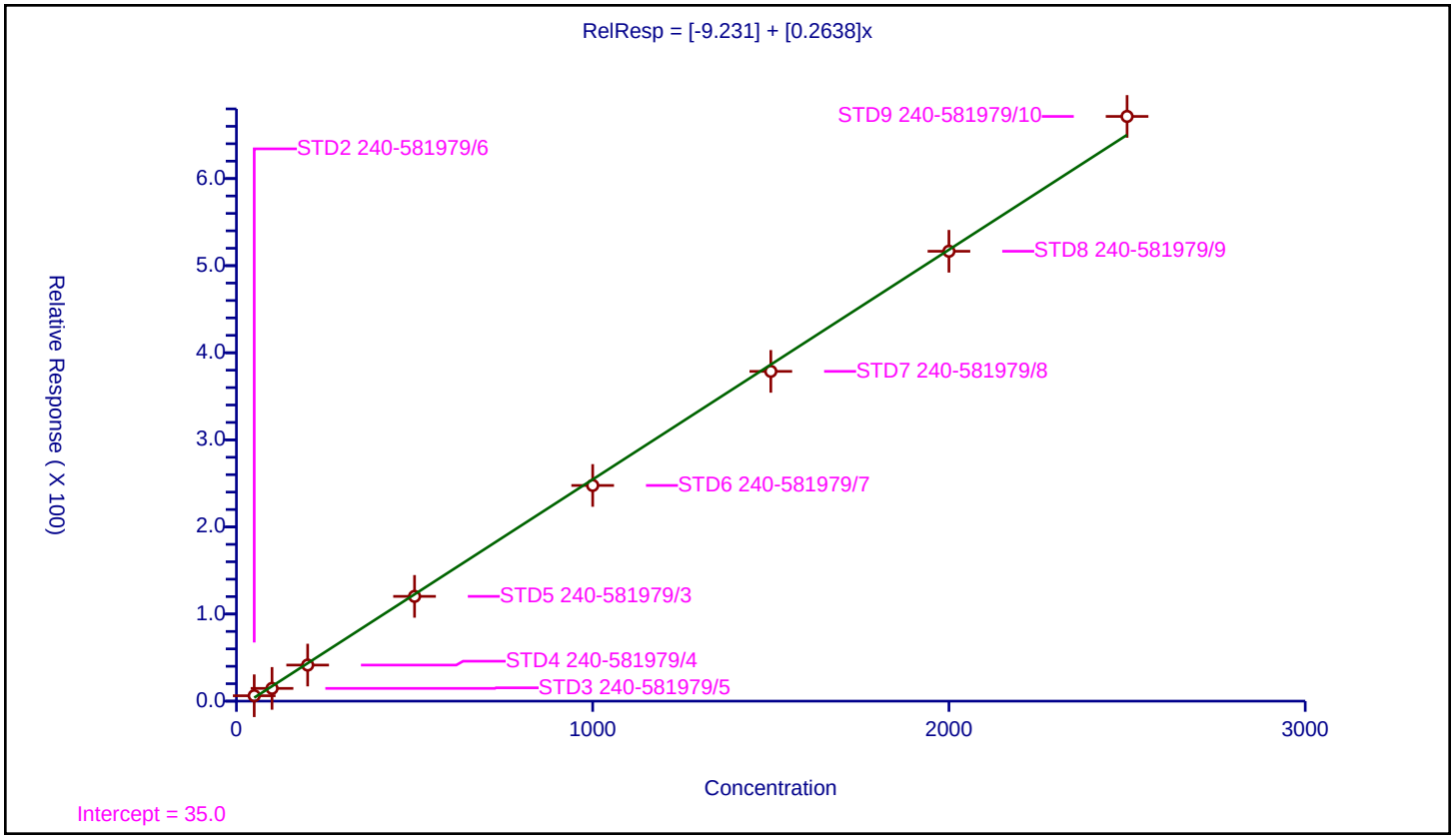
Curve Coefficients

Intercept:	-9.231
Slope:	0.2638

Error Coefficients

Standard Error:	623000
Relative Standard Error:	8.4
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581979/6	50.0	6.206618	400.0	474848.0	0.124132	Y
2	STD3 240-581979/5	100.0	14.619383	400.0	546179.0	0.146194	Y
3	STD4 240-581979/4	200.0	41.419263	400.0	613135.0	0.207096	Y
4	STD5 240-581979/3	500.0	120.30111	400.0	604430.0	0.240602	Y
5	STD6 240-581979/7	1000.0	247.641134	400.0	582992.0	0.247641	Y
6	STD7 240-581979/8	1500.0	378.643593	400.0	610908.0	0.252429	Y
7	STD8 240-581979/9	2000.0	516.547985	400.0	644864.0	0.258274	Y
8	STD9 240-581979/10	2500.0	671.343774	400.0	635464.0	0.268538	Y



8/12/2023
10:47 AM

Calibration / 6-Methylchrysene

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

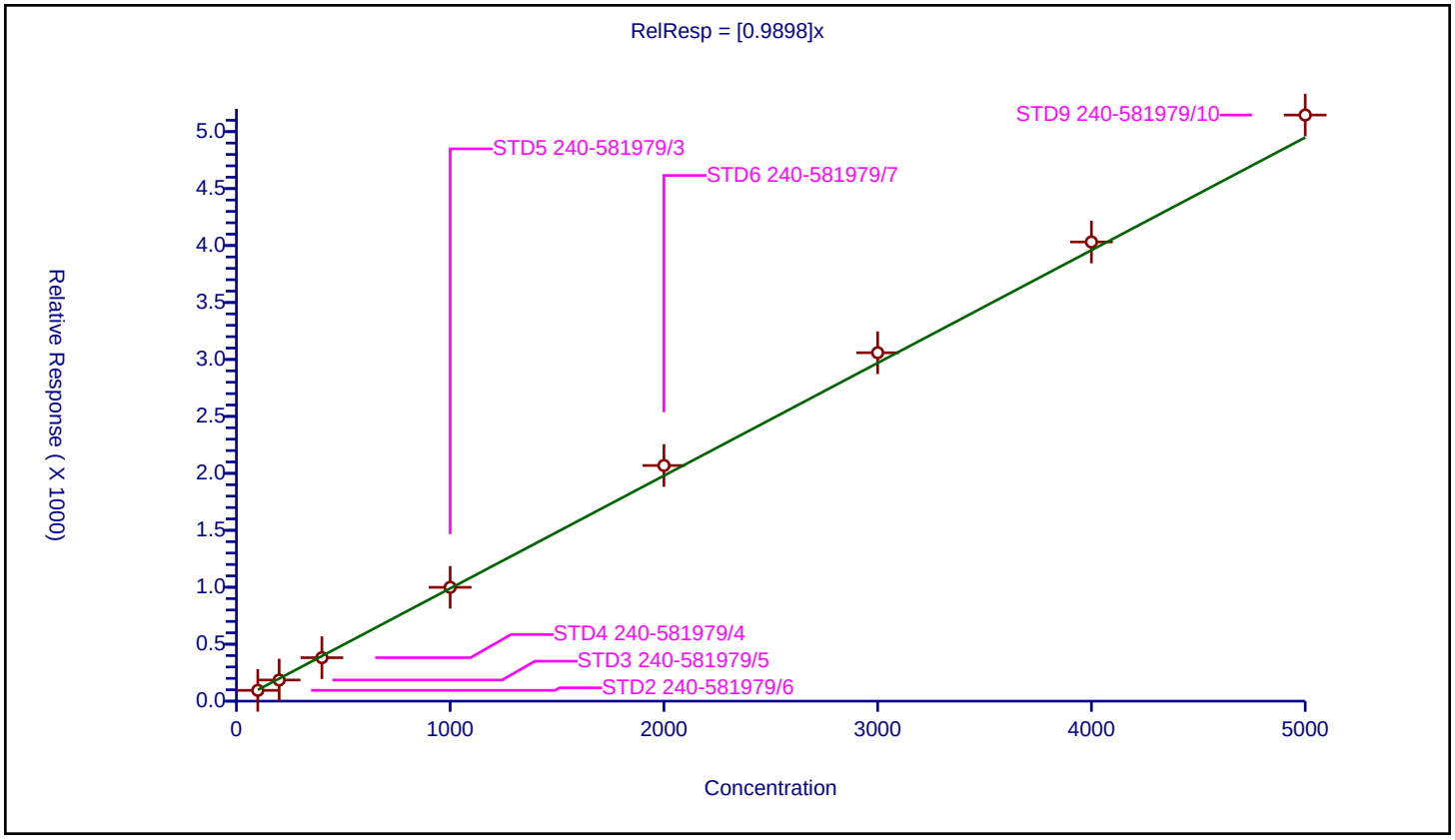
Curve Coefficients

Intercept:	0
Slope:	0.9898

Error Coefficients

Standard Error:	4510000
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	STD2 240-581979/6	100.0	94.678718	400.0	474848.0	0.946787	Y
2	STD3 240-581979/5	200.0	185.477655	400.0	546179.0	0.927388	Y
3	STD4 240-581979/4	400.0	381.455308	400.0	613135.0	0.953638	Y
4	STD5 240-581979/3	1000.0	999.373294	400.0	604430.0	0.999373	Y
5	STD6 240-581979/7	2000.0	2068.870928	400.0	582992.0	1.034435	Y
6	STD7 240-581979/8	3000.0	3059.069451	400.0	610908.0	1.01969	Y
7	STD8 240-581979/9	4000.0	4031.490051	400.0	644864.0	1.007873	Y
8	STD9 240-581979/10	5000.0	5146.08538	400.0	635464.0	1.029217	Y



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

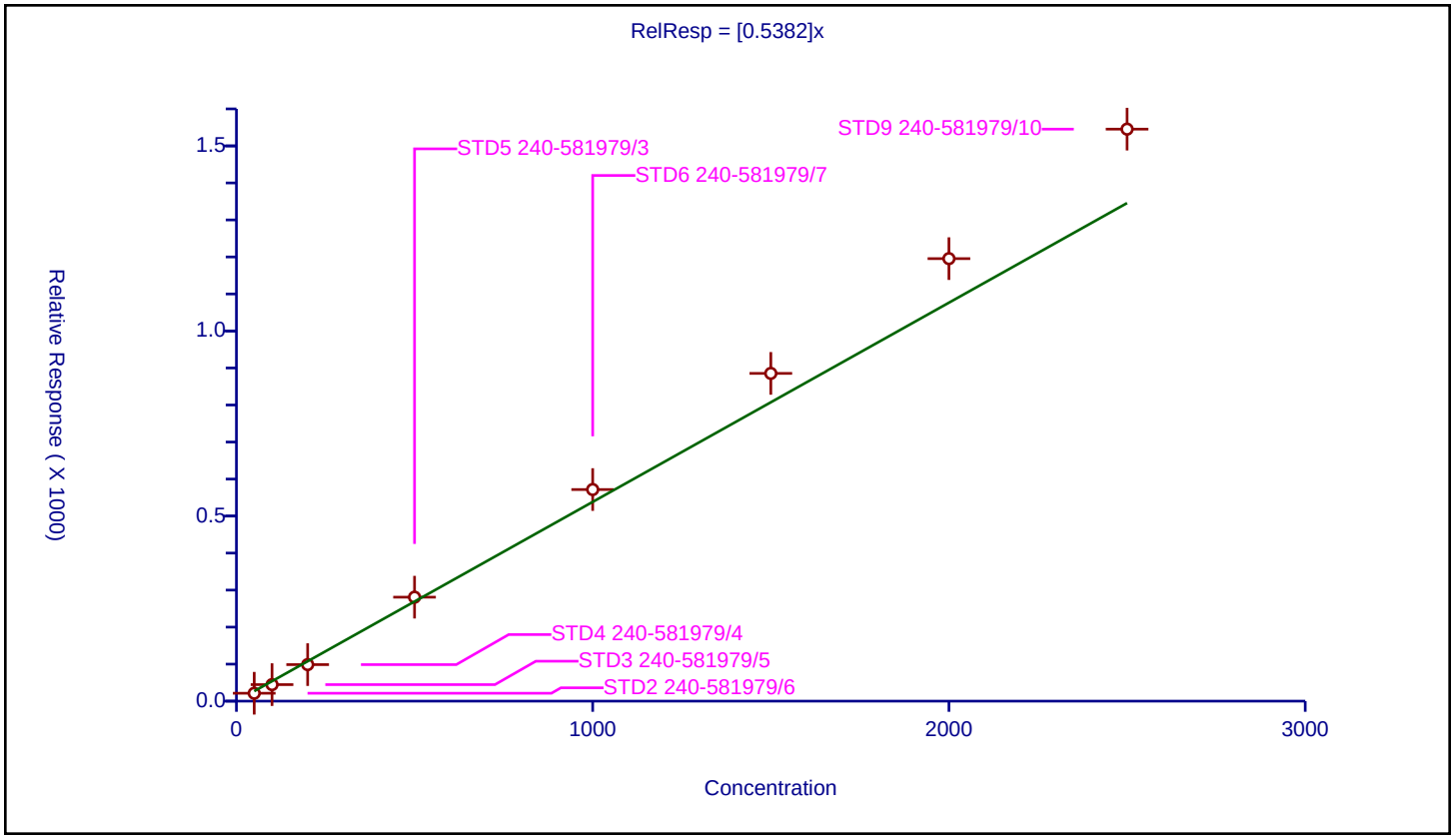
Curve Coefficients

Intercept:	0
Slope:	0.5382

Error Coefficients

Standard Error:	1280000
Relative Standard Error:	13.5
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.979

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581979/6	50.0	21.33246	400.0	525359.0	0.426649	Y
2	STD3 240-581979/5	100.0	44.620067	400.0	543083.0	0.446201	Y
3	STD4 240-581979/4	200.0	98.691053	400.0	622103.0	0.493455	Y
4	STD5 240-581979/3	500.0	280.854997	400.0	603698.0	0.56171	Y
5	STD6 240-581979/7	1000.0	571.610647	400.0	557068.0	0.571611	Y
6	STD7 240-581979/8	1500.0	885.420519	400.0	586276.0	0.59028	Y
7	STD8 240-581979/9	2000.0	1195.455893	400.0	613806.0	0.597728	Y
8	STD9 240-581979/10	2500.0	1545.298449	400.0	608831.0	0.618119	Y



Calibration / 3-Methylcholanthrene

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

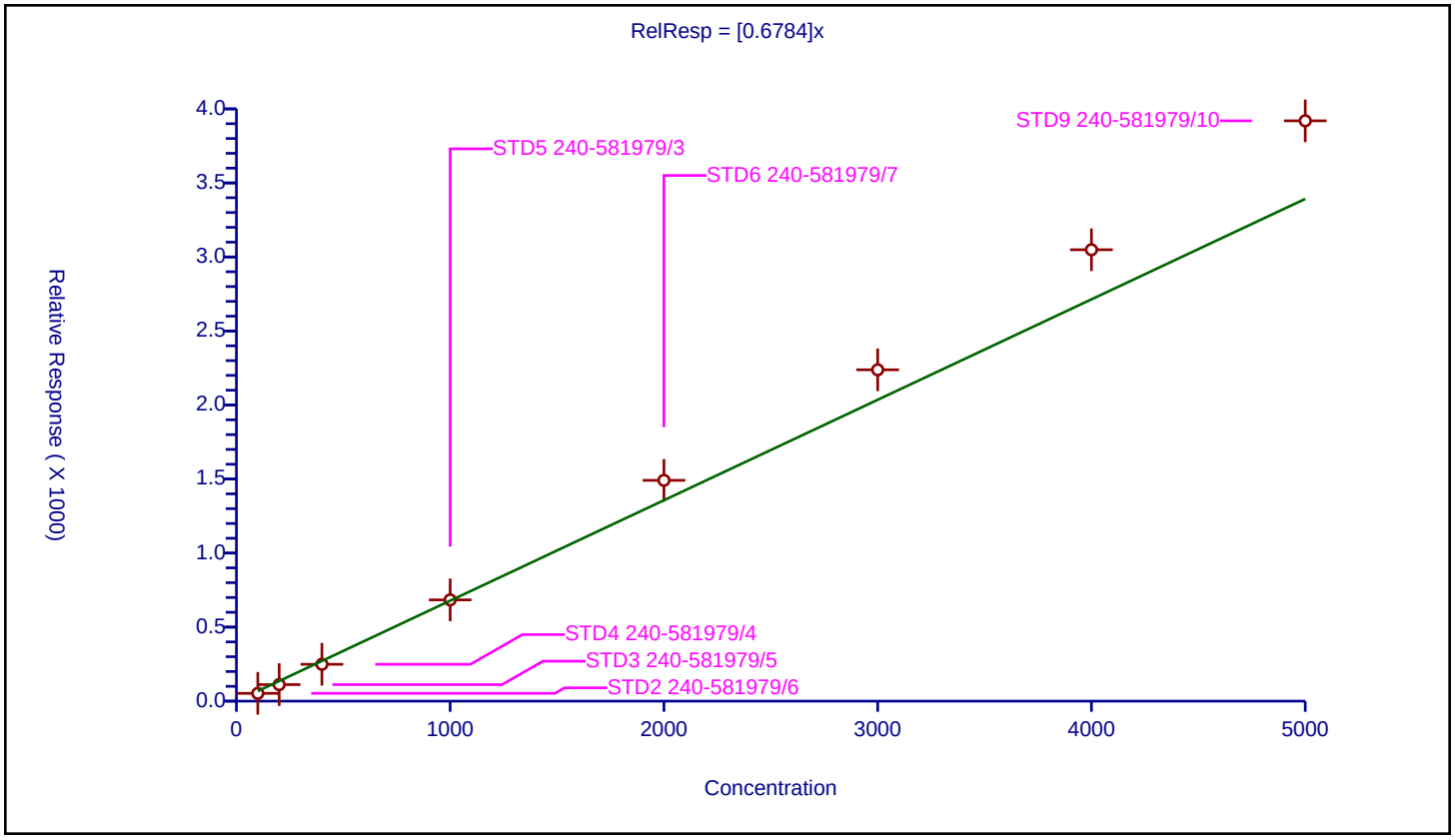
Curve Coefficients

Intercept:	0
Slope:	0.6784

Error Coefficients

Standard Error:	3240000
Relative Standard Error:	14.6
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.976

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581979/6	100.0	52.568244	400.0	525359.0	0.525682	Y
2	STD3 240-581979/5	200.0	111.551273	400.0	543083.0	0.557756	Y
3	STD4 240-581979/4	400.0	248.928554	400.0	622103.0	0.622321	Y
4	STD5 240-581979/3	1000.0	683.875713	400.0	603698.0	0.683876	Y
5	STD6 240-581979/7	2000.0	1491.321706	400.0	557068.0	0.745661	Y
6	STD7 240-581979/8	3000.0	2237.839516	400.0	586276.0	0.745947	Y
7	STD8 240-581979/9	4000.0	3048.679224	400.0	613806.0	0.76217	Y
8	STD9 240-581979/10	5000.0	3919.337879	400.0	608831.0	0.783868	Y



Calibration / Dibenz[a,h]acridine

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

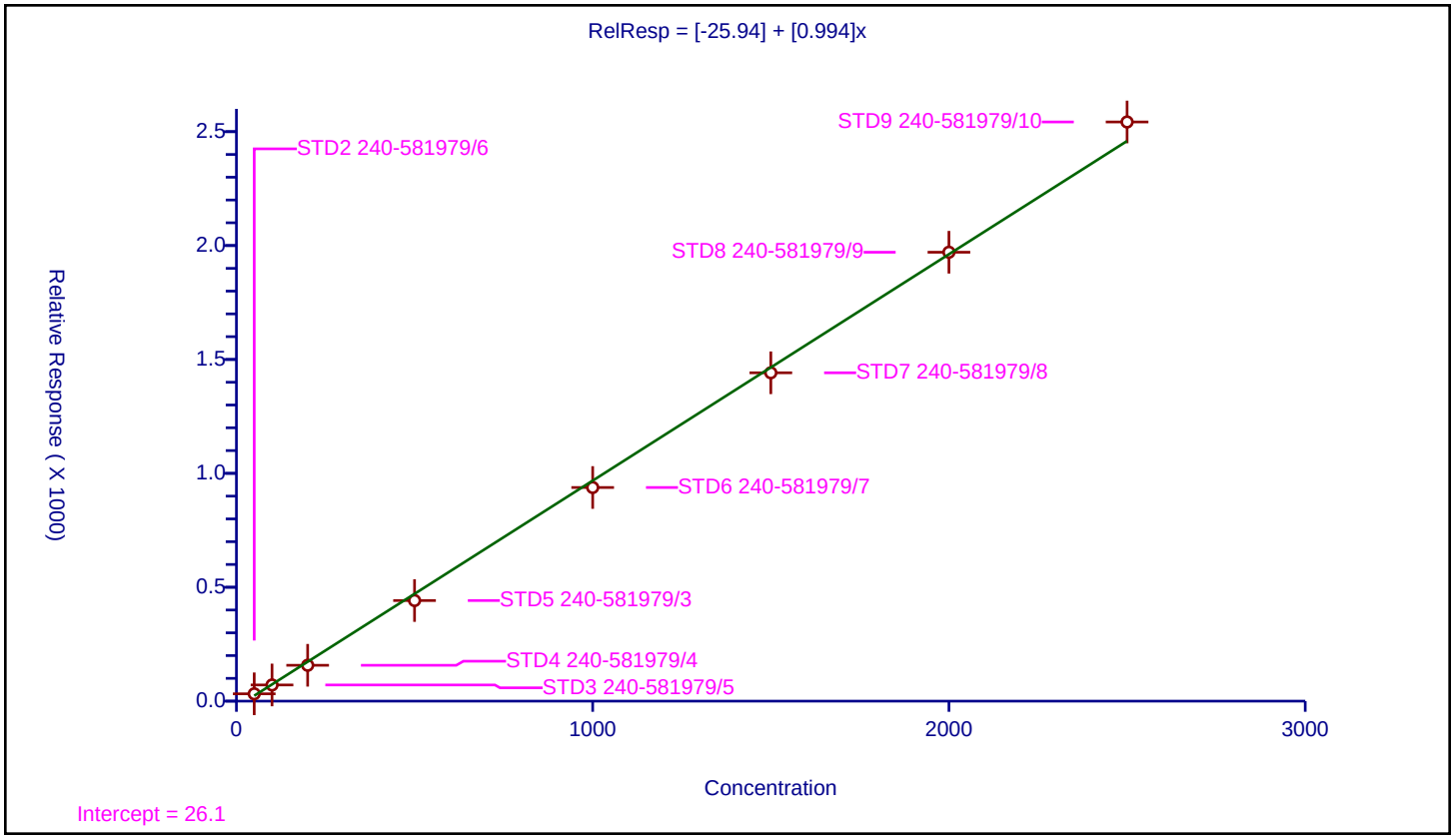
Curve Coefficients

Intercept:	-25.94
Slope:	0.994

Error Coefficients

Standard Error:	2260000
Relative Standard Error:	8.3
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-581979/6	50.0	32.162388	400.0	525359.0	0.643248	Y
2	STD3 240-581979/5	100.0	71.003511	400.0	543083.0	0.710035	Y
3	STD4 240-581979/4	200.0	157.482603	400.0	622103.0	0.787413	Y
4	STD5 240-581979/3	500.0	441.630749	400.0	603698.0	0.883261	Y
5	STD6 240-581979/7	1000.0	937.885501	400.0	557068.0	0.937886	Y
6	STD7 240-581979/8	1500.0	1441.519012	400.0	586276.0	0.961013	Y
7	STD8 240-581979/9	2000.0	1970.726256	400.0	613806.0	0.985363	Y
8	STD9 240-581979/10	2500.0	2542.584067	400.0	608831.0	1.017034	Y



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Lab Sample ID: ICV 240-581832/11 Calibration Date: 07/26/2023 12:11

Instrument ID: A4AG2 Calib Start Date: 07/26/2023 08:38

GC Column: RXI-5SILMS/IIG ID: 0.25(mm) Calib End Date: 07/26/2023 11:48

Lab File ID: 11.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.2367	0.1813		0.766	1.00	-23.4	30.0
N-Nitrosodimethylamine	Ave	0.8392	0.8137		0.970	1.00	-3.0	30.0
Pyridine	Ave	0.6316	0.5969		1.89	2.00	-5.5	30.0
Benzaldehyde	Qua		0.6141	0.0100	1.72	2.00	-13.9	30.0
Phenol	Ave	1.548	1.330	0.8000	0.859	1.00	-14.1	30.0
Aniline	Ave	2.190	2.142		0.978	1.00	-2.2	30.0
Bis(2-chloroethyl)ether	Ave	1.531	1.358	0.7000	0.887	1.00	-11.3	30.0
2-Chlorophenol	Ave	1.396	1.395	0.8000	0.999	1.00	-0.0	30.0
n-Decane	Ave	1.328	1.278		0.962	1.00	-3.8	30.0
1,3-Dichlorobenzene	Ave	1.611	1.526		0.947	1.00	-5.3	30.0
1,4-Dichlorobenzene	Ave	1.658	1.577		0.951	1.00	-4.9	30.0
Benzyl alcohol	Ave	0.9356	0.9220		0.986	1.00	-1.4	30.0
1,2-Dichlorobenzene	Ave	1.600	1.503		0.939	1.00	-6.1	30.0
2-Methylphenol	Ave	1.333	1.242	0.7000	0.932	1.00	-6.8	30.0
2,2'-oxybis[1-chloropropane]	Ave	1.970	1.845		0.937	1.00	-6.3	30.0
Indene	Ave	2.741	2.574		1.88	2.00	-6.1	30.0
3 & 4 Methylphenol	Lin1		1.274		0.892	1.00	-10.8	30.0
N-Nitrosodi-n-propylamine	Ave	1.015	0.9486	0.5000	0.934	1.00	-6.6	30.0
Acetophenone	Ave	2.096	1.934	0.0100	0.922	1.00	-7.8	30.0
Hexachloroethane	Ave	0.6015	0.5663	0.3000	0.942	1.00	-5.8	30.0
Nitrobenzene	Ave	0.3326	0.3385	0.2000	1.02	1.00	1.8	30.0
Isophorone	Ave	0.6497	0.6393	0.4000	0.984	1.00	-1.6	30.0
2,4-Dimethylphenol	Ave	0.2777	0.3166	0.2000	1.14	1.00	14.0	30.0
2-Nitrophenol	Lin1		0.1752	0.1000	0.988	1.00	-1.2	30.0
Benzoic acid	Qua		0.1334		1.95	2.00	-2.7	30.0
Bis(2-chloroethoxy)methane	Ave	0.3995	0.3853	0.3000	0.965	1.00	-3.5	30.0
2,4-Dichlorophenol	Lin1		0.2435	0.2000	0.931	1.00	-6.9	30.0
1,2,4-Trichlorobenzene	Ave	0.2765	0.2566		0.928	1.00	-7.2	30.0
Naphthalene	Ave	1.110	1.062	0.7000	0.957	1.00	-4.3	30.0
4-Chloroaniline	Ave	0.3926	0.4141	0.0100	1.05	1.00	5.5	30.0
2,6-Dichlorophenol	Lin1		0.2577		0.950	1.00	-5.0	30.0
Hexachlorobutadiene	Ave	0.1240	0.1226	0.0100	0.989	1.00	-1.1	30.0
Caprolactam	Lin1		0.1133	0.0100	1.95	2.00	-2.4	30.0
4-Chloro-3-methylphenol	Lin1		0.2871	0.2000	0.956	1.00	-4.4	30.0
2-Methylnaphthalene	Ave	0.7131	0.6859	0.4000	0.962	1.00	-3.8	30.0
1-Methylnaphthalene	Ave	0.6660	0.6496		0.975	1.00	-2.5	30.0
Hexachlorocyclopentadiene	Ave	0.2270	0.2348	0.0500	1.03	1.00	3.4	30.0
1,2,4,5-Tetrachlorobenzene	Ave	0.4503	0.4469	0.0100	0.992	1.00	-0.8	30.0
2,4,6-Trichlorophenol	Lin1		0.2909	0.2000	0.895	1.00	-10.5	30.0
2,4,5-Trichlorophenol	Lin1		0.3227	0.2000	0.953	1.00	-4.7	30.0
1,1'-Biphenyl	Ave	1.618	1.540	0.0100	0.952	1.00	-4.8	30.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Cleveland | Job No.: 240-189273-1

SDG No.:

Lab Sample ID: ICV 240-581832/11 | Calibration Date: 07/26/2023 12:11

Instrument ID: A4AG2 | Calib Start Date: 07/26/2023 08:38

GC Column: RXI-5SILMS/IIG ID: 0.25(mm) | Calib End Date: 07/26/2023 11:48

Lab File ID: 11.D | Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chloronaphthalene	Ave	1.182	1.142	0.8000	0.966	1.00	-3.4	30.0
2-Nitroaniline	Lin1		0.3198	0.0100	0.949	1.00	-5.1	30.0
Dimethyl phthalate	Ave	1.330	1.271	0.0100	0.956	1.00	-4.4	30.0
1,3-Dinitrobenzene	Lin1		0.1938		0.954	1.00	-4.6	30.0
2,6-Dinitrotoluene	Ave	0.2818	0.2906		1.03	1.00	3.1	30.0
Acenaphthylene	Ave	1.942	1.901	0.9000	0.979	1.00	-2.1	30.0
3-Nitroaniline	Ave	0.2262	0.1891	0.0100	0.836	1.00	-16.4	30.0
2,4-Dinitrophenol	Qua		0.1186	0.0100	2.09	2.00	4.3	30.0
4-Nitrophenol	Lin1		0.1387		1.85	2.00	-7.4	30.0
Acenaphthene	Ave	1.262	1.183	0.9000	0.937	1.00	-6.3	30.0
2,4-Dinitrotoluene	Lin1		0.3678	0.2000	0.937	1.00	-6.3	30.0
Dibenzofuran	Ave	1.601	1.575	0.8000	0.984	1.00	-1.6	30.0
2,3,4,6-Tetrachlorophenol	Lin1		0.2181	0.0100	0.968	1.00	-3.2	30.0
Diethyl phthalate	Ave	1.330	1.271	0.0100	0.955	1.00	-4.5	30.0
4-Chlorophenyl phenyl ether	Ave	0.5491	0.5375	0.4000	0.979	1.00	-2.1	30.0
4-Nitroaniline	Qua		0.2542	0.0100	0.899	1.00	-10.1	30.0
Fluorene	Ave	1.347	1.336	0.9000	0.992	1.00	-0.8	30.0
4,6-Dinitro-2-methylphenol	Qua		0.1139	0.0100	1.97	2.00	-1.4	30.0
Diphenylamine	Ave	0.7376	0.7139		0.830	0.857	-3.2	30.0
N-Nitrosodiphenylamine	Ave	0.6270	0.6118	0.0100	0.976	1.00	-2.4	30.0
Azobenzene	Ave	0.9065	0.9155		1.01	1.00	1.0	30.0
4-Bromophenyl phenyl ether	Ave	0.1862	0.1816	0.1000	0.975	1.00	-2.5	30.0
Atrazine	Ave	0.1919	0.2063	0.0100	2.15	2.00	7.5	30.0
Hexachlorobenzene	Lin1		0.1900	0.1000	0.958	1.00	-4.2	30.0
n-Octadecane	Ave	0.5677	0.5844		1.03	1.00	2.9	30.0
Pentachlorophenol	Qua		0.1084	0.0500	1.87	2.00	-6.7	30.0
Phenanthrene	Ave	1.180	1.150	0.7000	0.974	1.00	-2.6	30.0
Anthracene	Ave	1.143	1.154	0.7000	1.01	1.00	1.0	30.0
Carbazole	Ave	1.040	0.997	0.0100	0.958	1.00	-4.2	30.0
Di-n-butyl phthalate	Ave	1.384	1.413	0.0100	1.02	1.00	2.1	30.0
Fluoranthene	Ave	1.046	1.083	0.6000	1.04	1.00	3.6	30.0
Benzidine	Qua		0.4337		1.75	2.00	-12.6	30.0
Pyrene	Ave	1.575	1.572	0.6000	0.998	1.00	-0.2	30.0
Butyl benzyl phthalate	Lin1		0.8330	0.0100	0.958	1.00	-4.2	30.0
Bis(2-ethylhexyl) phthalate	Lin1		1.121	0.0100	0.924	1.00	-7.6	30.0
3,3'-Dichlorobenzidine	Lin1		0.4095	0.0100	1.82	2.00	-8.9	30.0
Benzo[a]anthracene	Ave	1.333	1.310	0.8000	0.982	1.00	-1.8	30.0
Chrysene	Ave	1.329	1.275	0.7000	0.959	1.00	-4.1	30.0
Di-n-octyl phthalate	Lin1		1.787	0.0100	0.904	1.00	-9.6	30.0
Benzo[b]fluoranthene	Ave	1.237	1.281	0.7000	1.04	1.00	3.5	30.0
Benzo[k]fluoranthene	Ave	1.278	1.302	0.7000	1.02	1.00	1.9	30.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Lab Sample ID: ICV 240-581832/11 Calibration Date: 07/26/2023 12:11

Instrument ID: A4AG2 Calib Start Date: 07/26/2023 08:38

GC Column: RXI-5SILMS/IIG ID: 0.25(mm) Calib End Date: 07/26/2023 11:48

Lab File ID: 11.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzo[a]pyrene	Lin1		1.151	0.7000	0.934	1.00	-6.6	30.0
Indeno[1,2,3-cd]pyrene	Lin1		1.207	0.5000	0.877	1.00	-12.3	30.0
Dibenz(a,h)anthracene	Lin1		1.079	0.4000	0.937	1.00	-6.3	30.0
Benzo[g,h,i]perylene	Ave	1.011	1.047	0.5000	1.04	1.00	3.6	30.0
2-Fluorophenol (Surr)	Ave	0.7867	0.8418		1.07	1.00	7.0	30.0
Phenol-d5 (Surr)	Ave	1.488	1.236		0.830	1.00	-17.0	30.0
Nitrobenzene-d5 (Surr)	Ave	0.3486	0.3538		1.02	1.00	1.5	30.0
2-Fluorobiphenyl (Surr)	Ave	1.342	1.230		0.916	1.00	-8.4	30.0
2,4,6-Tribromophenol (Surr)	Lin1		0.1160		0.906	1.00	-9.4	30.0
Terphenyl-d14 (Surr)	Ave	1.150	1.021		0.887	1.00	-11.3	30.0

Eurofins Cleveland
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\11.D
Lims ID: icv l1lvi
Client ID:
Sample Type: ICV
Inject. Date: 26-Jul-2023 12:11:30 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 240-0131814-011
Misc. Info.: ICV L1LVI
Operator ID: Instrument ID: A4AG2
Sublist:

Method: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\LVI AG2 8270.m
Limit Group: MSS 8270D ICAL
Last Update: 26-Jul-2023 13:12:36 Calib Date: 26-Jul-2023 11:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\10.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: CTX1679

First Level Reviewer: KDZ4 Date: 26-Jul-2023 12:46:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.746	6.748	-0.002	96	275445	400.0	400.0	
* 2 Naphthalene-d8	136	7.816	7.819	-0.003	99	1113531	400.0	400.0	
* 3 Acenaphthene-d10	164	9.316	9.319	-0.003	94	568978	400.0	400.0	
* 4 Phenanthrene-d10	188	10.610	10.613	-0.003	97	867951	400.0	400.0	
* 5 Chrysene-d12	240	13.563	13.566	-0.003	97	612678	400.0	400.0	
* 6 Perylene-d12	264	15.951	15.960	-0.009	94	578496	400.0	400.0	
$ 7 2-Fluorophenol	112	5.681	5.691	-0.003	92	579706	1000.0	1070.0	
$ 8 Phenol-d5	99	6.393	6.398	0.003	0	851139	1000.0	830.4	
$ 9 Nitrobenzene-d5	82	7.193	7.204	-0.002	86	984957	1000.0	1015.0	
$ 10 2-Fluorobiphenyl (Surr)	172	8.710	8.727	-0.003	100	1749785	1000.0	916.3	
$ 11 2,4,6-Tribromophenol	330	9.992	10.011	-0.003	88	165072	1000.0	906.5	
$ 12 Terphenyl-d14	244	12.104	12.126	-0.009	96	1563623	1000.0	887.5	
26 1,4-Dioxane	88	4.293	4.301	-0.003	93	124823	1000.0	765.7	M
27 N-Nitrosodimethylamine	74	4.546	4.555	-0.003	96	560331	1000.0	969.7	
28 Pyridine	79	4.610	4.613	0.003	98	822001	2000.0	1889.9	
42 Benzaldehyde	77	6.387	6.398	-0.003	95	845746	2000.0	1722.8	
43 Phenol	94	6.404	6.410	0.003	96	916147	1000.0	859.2	
44 Aniline	93	6.469	6.475	0.003	99	1475198	1000.0	978.4	
45 Bis(2-chloroethyl)ether	93	6.493	6.498	0.003	98	935063	1000.0	887.0	
47 2-Chlorophenol	128	6.575	6.586	-0.003	96	960733	1000.0	999.3	
244 n-Decane	57	6.581	6.592	-0.003	90	879781	1000.0	961.8	
48 1,3-Dichlorobenzene	146	6.704	6.716	-0.003	98	1050666	1000.0	947.3	
49 1,4-Dichlorobenzene	146	6.763	6.769	0.003	96	1086283	1000.0	951.2	
50 Benzyl alcohol	108	6.828	6.840	-0.003	96	634922	1000.0	985.5	
51 1,2-Dichlorobenzene	146	6.893	6.904	-0.003	98	1034855	1000.0	939.4	
52 2-Methylphenol	108	6.904	6.916	-0.003	93	855527	1000.0	931.9	
54 2,2'-oxybis[1-chloropropane]	45	6.934	6.946	-0.003	95	1270833	1000.0	936.8	
53 Indene	115	6.969	6.975	0.003	90	3545160	2000.0	1878.5	
55 3 & 4 Methylphenol	108	7.022	7.034	-0.003	94	877203	1000.0	892.4	
57 N-Nitrosodi-n-propylamine	70	7.046	7.052	0.003	83	653208	1000.0	934.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
58 Acetophenone	105	7.057	7.069	-0.003	97	1331454	1000.0	922.5	
61 Hexachloroethane	117	7.187	7.199	-0.003	94	389977	1000.0	941.5	
62 Nitrobenzene	77	7.210	7.221	-0.003	84	942250	1000.0	1017.7	
64 Isophorone	82	7.404	7.416	-0.003	99	1779753	1000.0	984.0	
65 2-Nitrophenol	139	7.475	7.486	-0.003	73	487766	1000.0	987.9	
66 2,4-Dimethylphenol	107	7.475	7.486	-0.003	88	881465	1000.0	1140.3	
70 Benzoic acid	122	7.528	7.539	-0.003	86	742587	2000.0	1946.2	M
69 Bis(2-chloroethoxy)methane	93	7.551	7.557	0.003	99	1072720	1000.0	964.6	
72 2,4-Dichlorophenol	162	7.675	7.686	-0.003	94	677765	1000.0	930.5	
73 1,2,4-Trichlorobenzene	180	7.757	7.769	-0.003	94	714261	1000.0	928.0	
74 Naphthalene	128	7.834	7.845	-0.003	96	2956809	1000.0	957.1	
75 4-Chloroaniline	127	7.857	7.869	-0.003	97	1152660	1000.0	1054.6	
76 2,6-Dichlorophenol	162	7.869	7.881	-0.003	99	717258	1000.0	950.2	
78 Hexachlorobutadiene	225	7.928	7.940	-0.003	97	341321	1000.0	988.8	
83 Caprolactam	113	8.145	8.158	-0.003	84	630962	2000.0	1951.5	
85 4-Chloro-3-methylphenol	107	8.228	8.240	-0.003	96	799335	1000.0	955.6	
86 2-Methylnaphthalene	142	8.416	8.428	-0.003	93	1909434	1000.0	961.8	
87 1-Methylnaphthalene	142	8.504	8.517	-0.003	94	1808416	1000.0	975.4	
89 Hexachlorocyclopentadiene	237	8.557	8.574	-0.003	96	334038	1000.0	1034.3	
90 1,2,4,5-Tetrachlorobenzene	216	8.563	8.579	-0.003	98	635699	1000.0	992.4	
93 2,4,6-Trichlorophenol	196	8.640	8.656	-0.002	93	413834	1000.0	895.3	
94 2,4,5-Trichlorophenol	196	8.681	8.697	-0.003	92	459084	1000.0	953.1	
99 1,1'-Biphenyl	154	8.804	8.821	-0.003	94	2189943	1000.0	951.7	
100 2-Chloronaphthalene	162	8.840	8.856	-0.002	96	1624380	1000.0	966.3	
101 2-Nitroaniline	65	8.898	8.915	-0.003	89	454853	1000.0	948.7	
104 Dimethyl phthalate	163	9.028	9.045	-0.003	99	1808352	1000.0	955.6	
103 1,3-Dinitrobenzene	168	9.063	9.080	-0.003	87	275729	1000.0	953.5	
106 2,6-Dinitrotoluene	165	9.087	9.104	-0.002	96	413360	1000.0	1031.3	
108 Acenaphthylene	152	9.204	9.222	-0.003	98	2703919	1000.0	978.6	
109 3-Nitroaniline	138	9.251	9.269	-0.003	98	269002	1000.0	836.2	
110 2,4-Dinitrophenol	184	9.328	9.345	-0.003	81	337481	2000.0	2086.6	
111 Acenaphthene	153	9.345	9.363	-0.003	94	1682214	1000.0	936.8	
112 4-Nitrophenol	109	9.345	9.369	-0.009	52	394501	2000.0	1852.6	
113 2,4-Dinitrotoluene	165	9.440	9.457	-0.002	94	523163	1000.0	937.3	
115 Dibenzofuran	168	9.492	9.510	-0.003	96	2240705	1000.0	983.7	
118 2,3,4,6-Tetrachlorophenol	232	9.587	9.605	-0.002	78	310180	1000.0	967.6	
248 Hexadecane	57	9.610	9.628	-0.003	94	1140466	NC	NC	
120 Diethyl phthalate	149	9.622	9.640	-0.003	98	1807597	1000.0	955.4	
122 4-Chlorophenyl phenyl ether	204	9.757	9.775	-0.003	95	764569	1000.0	978.8	
125 4-Nitroaniline	138	9.775	9.793	-0.003	91	361635	1000.0	898.9	
124 Fluorene	166	9.787	9.805	-0.002	94	1900347	1000.0	991.5	
127 4,6-Dinitro-2-methylphenol	198	9.792	9.809	-0.003	84	494473	2000.0	1971.1	
129 Diphenylamine	169	9.851	9.868	-0.003	95	1327616	857.0	829.5	
128 N-Nitrosodiphenylamine	169	9.851	9.868	-0.003	98	1327616	1000.0	975.9	
130 1,2-Diphenylhydrazine	77	9.892	9.906	0.000	96	1987090	1000.0	1010.3	
131 Azobenzene	77	9.892	9.909	-0.003	98	1986467	1000.0	1010.0	
138 4-Bromophenyl phenyl ether	248	10.181	10.198	-0.003	70	394017	1000.0	975.2	
141 Atrazine	200	10.275	10.292	-0.003	93	895465	2000.0	2150.2	
140 Hexachlorobenzene	284	10.281	10.298	-0.003	91	412221	1000.0	958.1	
245 n-Octadecane	57	10.398	10.416	-0.003	95	1267994	1000.0	1029.3	
143 Pentachlorophenol	266	10.434	10.430	0.004	90	470368	2000.0	1865.9	
148 Phenanthrene	178	10.628	10.645	-0.003	98	2494723	1000.0	973.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
149 Anthracene	178	10.675	10.692	-0.003	98	2503948	1000.0	1009.7	
150 Carbazole	167	10.786	10.810	-0.009	96	2163085	1000.0	958.3	
154 Di-n-butyl phthalate	149	11.022	11.040	-0.003	100	3065172	1000.0	1020.9	
159 Fluoranthene	202	11.745	11.764	-0.003	99	2350281	1000.0	1035.5	
160 Benzidine	184	11.833	11.830	0.003	100	1328521	2000.0	1747.5	
161 Pyrene	202	12.004	12.020	-0.003	96	2407382	1000.0	997.8	
169 Butyl benzyl phthalate	149	12.645	12.662	-0.003	98	1275911	1000.0	958.4	
174 Bis(2-ethylhexyl) phthalate	149	13.416	13.433	-0.003	98	1716883	1000.0	924.5	
177 3,3'-Dichlorobenzidine	252	13.451	13.474	-0.009	77	1254444	2000.0	1822.4	
178 Benzo[a]anthracene	228	13.545	13.563	-0.003	99	2005887	1000.0	982.2	
179 Chrysene	228	13.604	13.622	-0.003	96	1953372	1000.0	959.5	
181 Di-n-octyl phthalate	149	14.439	14.456	-0.009	99	2584913	1000.0	903.6	
183 Benzo[b]fluoranthene	252	15.286	15.303	-0.009	97	1852522	1000.0	1035.3	
184 Benzo[k]fluoranthene	252	15.327	15.345	-0.009	96	1883493	1000.0	1018.8	
185 Benzo[a]pyrene	252	15.851	15.874	-0.015	83	1664916	1000.0	934.4	
190 Indeno[1,2,3-cd]pyrene	276	18.110	18.134	-0.014	96	1745849	1000.0	877.0	
189 Dibenz(a,h)anthracene	278	18.121	18.146	-0.015	88	1560761	1000.0	937.0	
191 Benzo[g,h,i]perylene	276	18.757	18.787	-0.020	91	1514035	1000.0	1035.6	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

SMLIST1 SS W_00021 Amount Added: 0.10 Units: mL

Report Date: 26-Jul-2023 13:12:38 Chrom Revision: 2.3 19-Jul-2023 18:28:48

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\11.D

Injection Date: 26-Jul-2023 12:11:30 Instrument ID: A4AG2 Operator ID:

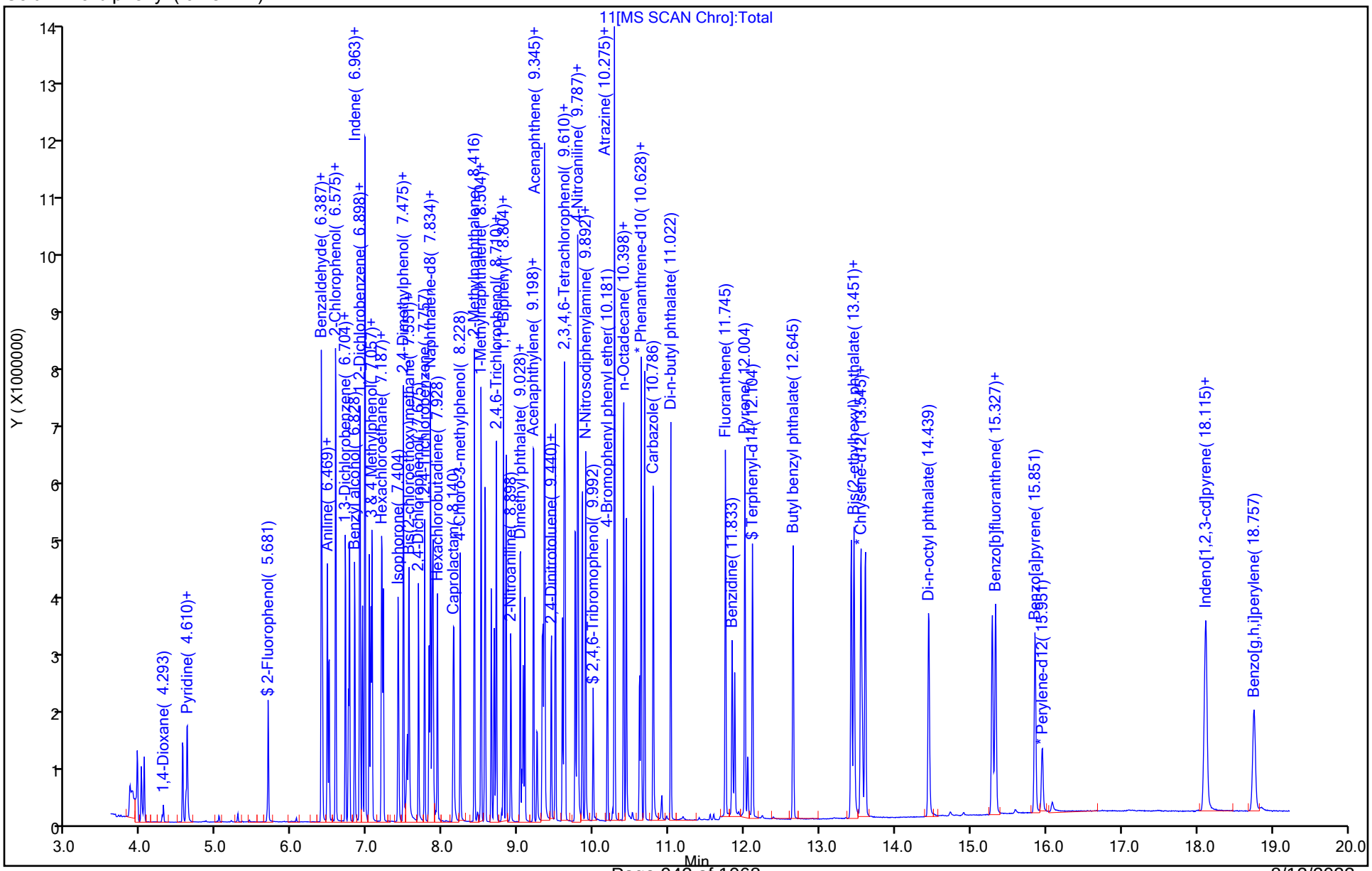
Lims ID: icv l1lvi Worklist Smp#: 11

Client ID:

Injection Vol: 5.0 ul Dil. Factor: 1.0000 ALS Bottle#: 11

Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL

Column: 5% phenyl (0.18 mm)



8/12/2023
10:47 AM

Manual Integration/User Assign Peak Report

Eurofins Cleveland

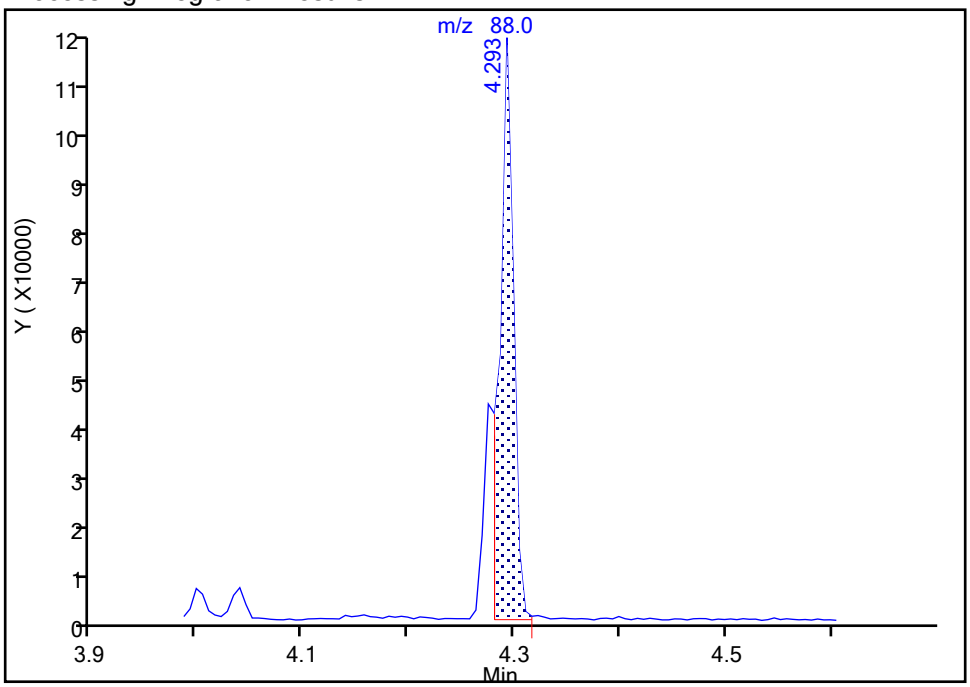
Data File: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\11.D
Injection Date: 26-Jul-2023 12:11:30 Instrument ID: A4AG2
Lims ID: icv l1lvi
Client ID:
Operator ID: ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL
Column: 5% phenyl (0.18 mm) Detector MS SCAN

26 1,4-Dioxane, CAS: 123-91-1

Signal: 1

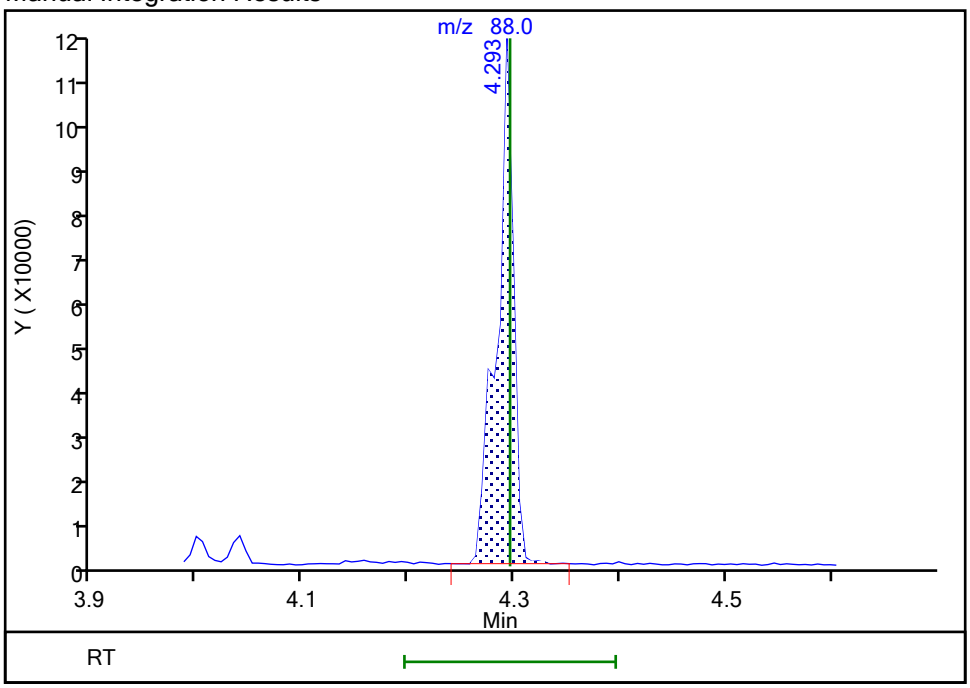
Processing Integration Results

RT: 4.29
Area: 103803
Amount: 636.7629
Amount Units: ng/ml



Manual Integration Results

RT: 4.29
Area: 124823
Amount: 765.7067
Amount Units: ng/ml



Reviewer: KDZ4, 26-Jul-2023 12:38:09 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Cleveland

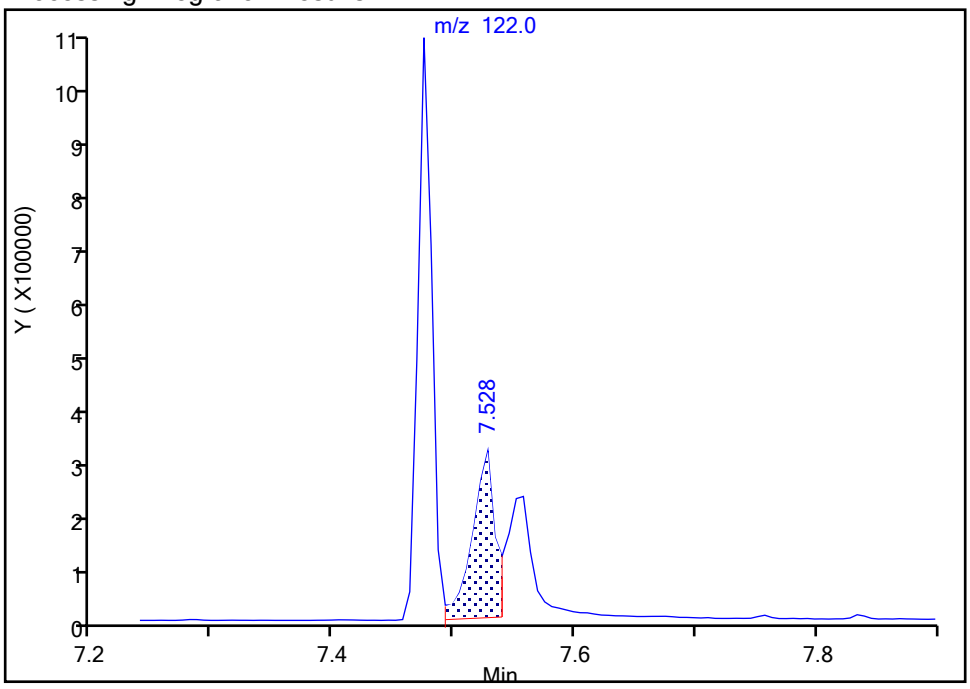
Data File: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\11.D
Injection Date: 26-Jul-2023 12:11:30 Instrument ID: A4AG2
Lims ID: icv l1lvi
Client ID:
Operator ID: ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL
Column: 5% phenyl (0.18 mm) Detector MS SCAN

70 Benzoic acid, CAS: 65-85-0

Signal: 1

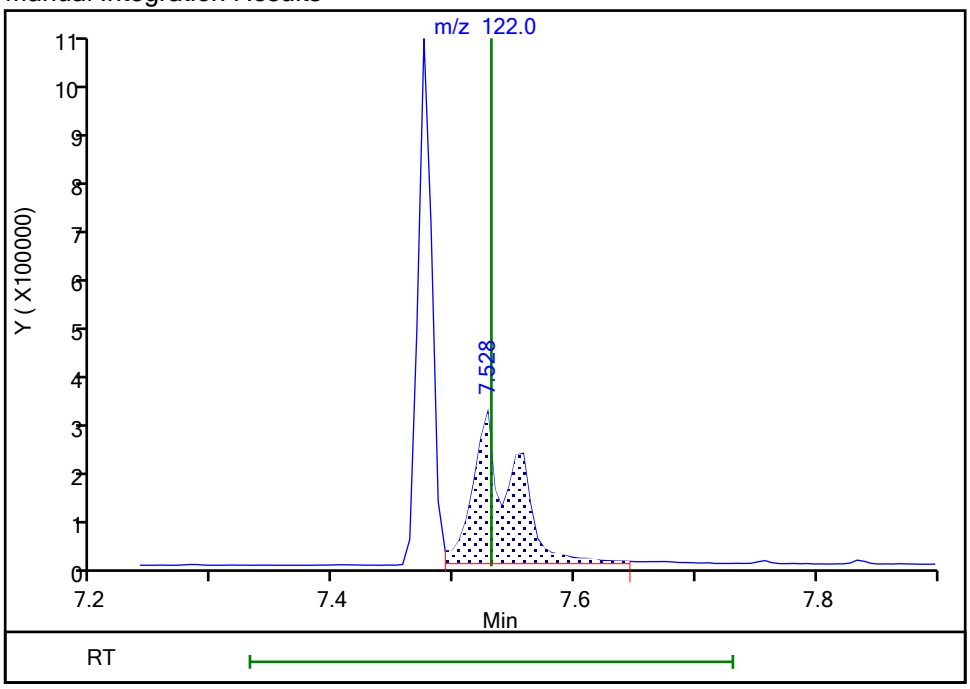
Processing Integration Results

RT: 7.53
Area: 417003
Amount: 1245.4400
Amount Units: ng/ml



Manual Integration Results

RT: 7.53
Area: 742587
Amount: 1946.2157
Amount Units: ng/ml



Reviewer: KDZ4, 26-Jul-2023 12:39:10 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Cleveland | Job No.: 240-189273-1

SDG No.:

Lab Sample ID: ICV 240-581979/11 | Calibration Date: 07/27/2023 12:34

Instrument ID: A4AG2 | Calib Start Date: 07/27/2023 09:28

GC Column: RXI-5SILMS/IIG ID: 0.25(mm) | Calib End Date: 07/27/2023 12:11

Lab File ID: 11.D | Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Picoline	Ave	1.117	1.202		1.08	1.00	7.6	30.0
N-Nitrosomethylethylamine	Ave	0.7438	0.7668		1.03	1.00	3.1	30.0
Methyl methanesulfonate	Ave	0.8403	0.8444		1.00	1.00	0.5	30.0
N-Nitrosodiethylamine	Ave	0.7899	0.8489		1.07	1.00	7.5	30.0
Ethyl methanesulfonate	Ave	1.196	1.237		1.03	1.00	3.5	30.0
Pentachloroethane	Ave	0.3972	0.4216		1.06	1.00	6.1	30.0
N-Nitrosopyrrolidine	Ave	0.7967	0.9663		1.21	1.00	21.3	30.0
N-Nitrosomorpholine	Ave	0.8712	1.004		1.15	1.00	15.3	30.0
o-Toluidine	Ave	2.461	2.605		1.06	1.00	5.8	30.0
N-Nitrosopiperidine	Ave	0.1701	0.2087		1.23	1.00	22.7	30.0
o,o',o''-Triethylphosphorothioate	Ave	0.1373	0.1540		1.12	1.00	12.1	30.0
alpha,alpha-Dimethyl phenethylamine	Lin1		0.5981		0.996	1.00	-0.4	30.0
Hexachloropropene	Ave	0.1389	0.1437	0.0100	1.04	1.00	3.5	30.0
Quinoline	Lin1		0.8133		1.20	1.00	19.8	30.0
N-Nitrosodi-n-butylamine	Ave	0.2144	0.2447		1.14	1.00	14.1	30.0
p-Phenylene diamine	Lin1		0.2180		0.983	1.00	-1.7	30.0
Safrole, Total	Lin1		0.2960		1.15	1.00	14.6	30.0
Isosafrole Peak 1	Lin1		0.5392		0.123	0.120	2.2	30.0
Isosafrole Peak 2	Ave	0.5533	0.6052		0.963	0.880	9.4	30.0
1,4-Naphthoquinone	Lin1		0.4335		1.10	1.00	10.5	30.0
1,4-Dinitrobenzene	Lin1		0.1806		0.995	1.00	-0.5	30.0
Pentachlorobenzene	Qua		0.4067		1.12	1.00	12.1	30.0
1-Naphthylamine	Ave	1.157	1.335		1.15	1.00	15.4	30.0
2-Naphthylamine	Ave	1.224	1.367		1.12	1.00	11.6	30.0
Thionazin	Ave	0.2925	0.3320		1.14	1.00	13.5	30.0
N-Nitro-o-toluidine	Ave	0.3407	0.4063		1.19	1.00	19.3	30.0
Sulfotepp	Ave	0.0816	0.0838		1.03	1.00	2.6	30.0
1,3,5-Trinitrobenzene	Qua		0.0590		1.05	1.00	5.3	30.0
Diallate Peak 1	Ave	0.3941	0.4343		0.827	0.750	10.2	30.0
Phenacetin	Lin1		0.4193		1.07	1.00	7.2	30.0
Phorate	Ave	0.1805	0.1989		1.10	1.00	10.2	30.0
Diallate Peak 2	Ave	0.3819	0.4088		0.268	0.250	7.0	30.0
Dimethoate	Lin1		0.3549		1.11	1.00	11.3	30.0
4-Aminobiphenyl	Ave	0.7504	0.8106		1.08	1.00	8.0	30.0
Pronamide	Ave	0.3109	0.3393		1.09	1.00	9.1	30.0
Pentachloronitrobenzene	Ave	0.0629	0.0664		1.06	1.00	5.7	30.0
Disulfoton	Ave	0.4629	0.4969		1.07	1.00	7.4	30.0
Dinoseb	Qua		0.1356		1.11	1.00	10.6	30.0
Methyl parathion	Lin1		0.2833		1.09	1.00	9.0	30.0
Ethyl Parathion	Lin1		0.1677		1.04	1.00	3.8	30.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Lab Sample ID: ICV 240-581979/11 Calibration Date: 07/27/2023 12:34

Instrument ID: A4AG2 Calib Start Date: 07/27/2023 09:28

GC Column: RXI-5SILMS/IIG ID: 0.25(mm) Calib End Date: 07/27/2023 12:11

Lab File ID: 11.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Nitroquinoline-1-oxide	Qua		0.0660		0.992	1.00	-0.8	30.0
Methapyrilene	Ave	0.5784	0.6463		2.23	2.00	11.7	30.0
Isodrin	Ave	0.1155	0.1191		1.03	1.00	3.1	30.0
Aramite Peak 1	Lin1		0.1506		0.488	0.470	3.9	30.0
Aramite Peak 2	Lin1		0.2109		0.534	0.480	11.3	30.0
p-Dimethylamino azobenzene	Qua		0.3267		1.14	1.00	13.8	30.0
Chlorobenzilate	Ave	0.5423	0.5955		1.10	1.00	9.8	30.0
Famphur	Ave	0.1846	0.0973		0.527	1.00	-47.3*	30.0
3,3'-Dimethylbenzidine	Qua		0.7148		1.07	1.00	7.0	30.0
2-Acetylaminofluorene	Lin1		0.6039		0.985	1.00	-1.5	30.0
4,4'-Methylene bis(2-chloroaniline)	Lin1		0.2603		1.02	1.00	2.2	30.0
6-Methylchrysene	Ave	0.9898	1.050		2.12	2.00	6.1	30.0
7,12-Dimethylbenz(a)anthracene	Ave	0.5382	0.6137		1.14	1.00	14.0	30.0
3-Methylcholanthrene	Ave	0.6784	0.5577		1.64	2.00	-17.8	30.0
Dibenz[a,h]acridine	Lin1		0.995		1.03	1.00	2.7	30.0

Eurofins Cleveland
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\11.D
Lims ID: icv l2lvi
Client ID:
Sample Type: ICV
Inject. Date: 27-Jul-2023 12:34:30 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 240-0131856-011
Misc. Info.: ICV L2LVI
Operator ID: Instrument ID: A4AG2
Sublist:

Method: \\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\LVI AG2 8270.m
Limit Group: MSS 8270D ICAL
Last Update: 27-Jul-2023 16:36:26 Calib Date: 27-Jul-2023 12:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\10.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: CTX1652

First Level Reviewer: KDZ4 Date: 27-Jul-2023 13:02:23

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.746	6.740	0.006	95	208271	400.0	400.0	
* 2 Naphthalene-d8	136	7.816	7.810	0.006	99	1025862	400.0	400.0	
* 3 Acenaphthene-d10	164	9.316	9.310	0.006	94	581412	400.0	400.0	
* 4 Phenanthrene-d10	188	10.598	10.598	0.000	97	973485	400.0	400.0	
* 5 Chrysene-d12	240	13.539	13.539	0.000	97	628398	400.0	400.0	
* 6 Perylene-d12	264	15.921	15.921	0.000	95	617966	400.0	400.0	
31 2-Picoline	93	5.222	5.228	-0.006	95	625878	1000.0	1076.0	
32 N-Nitrosomethylethylamine	88	5.293	5.293	0.000	92	399253	1000.0	1030.9	
34 Methyl methanesulfonate	80	5.522	5.522	0.000	85	439673	1000.0	1004.9	
36 N-Nitrosodiethylamine	102	5.857	5.857	0.000	94	441988	1000.0	1074.7	
37 Ethyl methanesulfonate	79	6.075	6.075	0.000	98	644217	1000.0	1034.9	
46 Pentachloroethane	167	6.522	6.522	0.000	96	219507	1000.0	1061.4	
56 N-Nitrosopyrrolidine	100	7.022	7.022	0.000	97	503128	1000.0	1212.9	
59 N-Nitrosomorpholine	56	7.046	7.046	0.000	91	522853	1000.0	1152.6	
60 2-Toluidine	106	7.087	7.087	0.000	96	1356231	1000.0	1058.4	
63 N-Nitrosopiperidine	114	7.322	7.322	0.000	88	535338	1000.0	1227.0	
68 o,o',o''-Triethylphosphorothioat	198	7.534	7.534	0.000	87	394851	1000.0	1121.0	
71 alpha,alpha-Dimethyl phenethylam	58	7.645	7.645	0.000	98	1533922	1000.0	996.3	
77 Hexachloropropene	213	7.910	7.910	0.000	94	368651	1000.0	1035.2	
81 Quinoline	129	8.104	8.110	-0.006	99	2085951	1000.0	1198.0	
82 N-Nitrosodi-n-butylamine	84	8.110	8.110	0.000	94	627652	1000.0	1141.3	
84 p-Phenylene diamine	108	8.145	8.145	0.000	98	559057	1000.0	983.4	
92 Safrole, Total	162	8.310	8.310	0.000	93	759122	1000.0	1146.5	
95 Isosafrole Peak 1	162	8.557	8.557	0.000	92	94043	120.0	122.7	
91 Isosafrole Peak 2	162	8.745	8.745	0.000	94	774111	880.0	962.5	
102 1,4-Naphthoquinone	158	8.963	8.963	0.000	91	630162	1000.0	1104.7	
105 1,4-Dinitrobenzene	168	8.987	8.987	0.000	89	262441	1000.0	994.9	
114 Pentachlorobenzene	250	9.457	9.457	0.000	97	591162	1000.0	1121.0	
117 1-Naphthylamine	143	9.545	9.545	0.000	99	1939943	1000.0	1153.6	
116 2,3,5,6-Tetrachlorophenol	232	9.545	9.545	0.000	74	294535	NC	NC	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
119 2-Naphthylamine	143	9.610	9.610	0.000	97	1986619	1000.0	1116.4	
121 Thionazin	97	9.687	9.687	0.000	82	482613	1000.0	1135.3	
123 N-Nitro-o-toluidine	152	9.763	9.763	0.000	97	590598	1000.0	1192.6	
132 Sulfotepp	202	9.934	9.934	0.000	78	203838	1000.0	1026.0	
133 1,3,5-Trinitrobenzene	213	10.022	10.022	0.000	84	143517	1000.0	1052.6	
135 Phenacetin	108	10.075	10.075	0.000	82	1020503	1000.0	1072.3	
134 Diallate Peak 1	86	10.075	10.075	0.000	87	792797	750.0	826.5	
136 Phorate	121	10.087	10.087	0.000	97	484090	1000.0	1102.1	
137 Diallate Peak 2	86	10.157	10.163	-0.006	95	248708	250.0	267.6	
139 Dimethoate	87	10.239	10.239	0.000	98	863637	1000.0	1112.9	
142 4-Aminobiphenyl	169	10.398	10.398	0.000	89	1972746	1000.0	1080.2	
144 Pronamide	173	10.410	10.410	0.000	90	825740	1000.0	1091.2	
145 Pentachloronitrobenzene	237	10.439	10.439	0.000	83	161714	1000.0	1057.1	
146 Disulfoton	88	10.528	10.534	-0.006	95	1209348	1000.0	1073.6	
147 Dinoseb	211	10.539	10.539	0.000	94	329904	1000.0	1105.6	
152 Methyl parathion	109	10.869	10.869	0.000	90	689467	1000.0	1090.3	
155 Ethyl Parathion	97	11.204	11.204	0.000	84	408055	1000.0	1038.0	
156 4-Nitroquinoline-1-oxide	190	11.286	11.286	0.000	88	160517	1000.0	992.4	
157 Methapyrilene	58	11.322	11.322	0.000	96	3145806	2000.0	2234.8	
158 Isodrin	66	11.586	11.586	0.000	90	289877	1000.0	1031.1	
162 Aramite Peak 1	185	12.004	12.004	0.000	0	111224	470.0	488.1	
163 Aramite Peak 2	185	12.086	12.086	0.000	0	158998	480.0	534.0	
164 p-Dimethylamino azobenzene	225	12.245	12.245	0.000	89	513251	1000.0	1138.1	
165 Chlorobenzilate	139	12.275	12.275	0.000	83	935559	1000.0	1098.1	
168 Famphur	218	12.580	12.580	0.000	88	152877	1000.0	527.1	
170 3,3'-Dimethylbenzidine	212	12.657	12.657	0.000	99	1122898	1000.0	1069.9	
172 2-Acetylaminofluorene	181	13.010	13.010	0.000	95	948734	1000.0	984.6	
175 4,4'-Methylene bis(2-chloroanil	231	13.416	13.416	0.000	95	408980	1000.0	1022.0	
180 6-Methylchrysene	242	14.280	14.280	0.000	99	3299088	2000.0	2121.6	
182 7,12-Dimethylbenz(a)anthracene	256	15.233	15.233	0.000	93	948081	1000.0	1140.2	
186 3-Methylcholanthrene	268	16.433	16.439	-0.006	96	1723142	2000.0	1644.1	
188 Dibenz[a,h]acridine	279	17.521	17.521	0.000	93	1537380	1000.0	1027.3	
S 194 Isosafrole	162				0		1000.0	1085.2	
S 195 Diallate	86				0		1000.0	1094.1	
S 196 Aramite, Total	185				0		1000.0	1022.1	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SMLIST2 SS W_00031 Amount Added: 0.10 Units: mL

Report Date: 27-Jul-2023 16:36:29 Chrom Revision: 2.3 19-Jul-2023 18:28:48

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\11.D

Injection Date: 27-Jul-2023 12:34:30 Instrument ID: A4AG2 Operator ID:

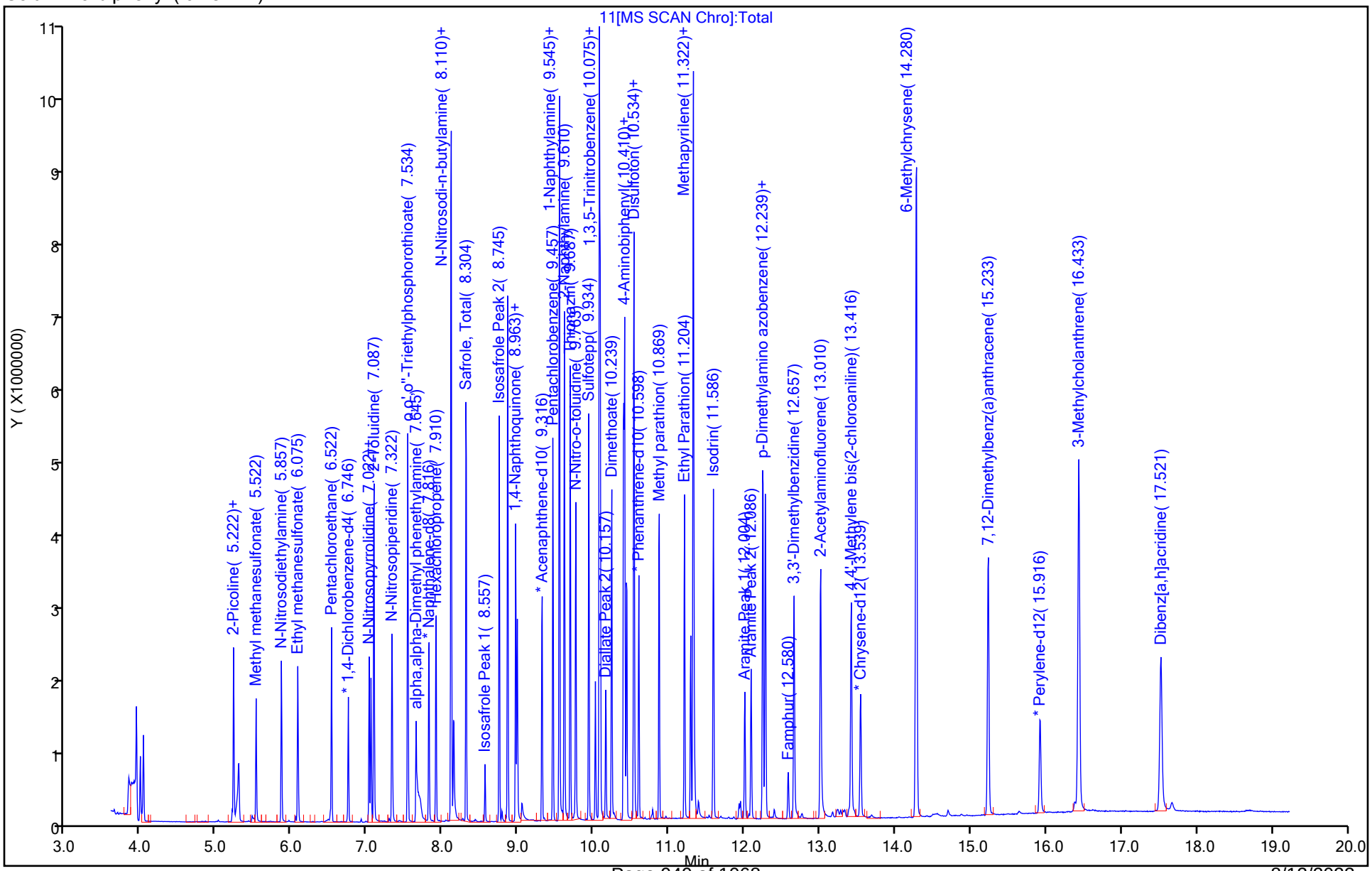
Lims ID: icv l2lvi Worklist Smp#: 11

Client ID:

Injection Vol: 5.0 ul Dil. Factor: 1.0000 ALS Bottle#: 11

Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL

Column: 5% phenyl (0.18 mm)



8/12/2023
10:47 AM

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Cleveland | Job No.: 240-189273-1

SDG No.:

Lab Sample ID: CCV 240-583312/2 | Calibration Date: 08/09/2023 07:43

Instrument ID: A4AG2 | Calib Start Date: 07/26/2023 08:38

GC Column: RXI-5SILMS/IIG ID: 0.25(mm) | Calib End Date: 07/26/2023 11:48

Lab File ID: CCV L1LVI.D | Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.2367	0.2293		0.968	1.00	-3.2	20.0
N-Nitrosodimethylamine	Ave	0.8392	0.8310		0.990	1.00	-1.0	20.0
Pyridine	Ave	0.6316	0.7289		2.31	2.00	15.4	20.0
Benzaldehyde	Qua		0.5446	0.0100	1.48	2.00	-25.9*	20.0
Phenol	Ave	1.548	1.328	0.8000	0.858	1.00	-14.2	20.0
Aniline	Ave	2.190	2.052		0.937	1.00	-6.3	20.0
Bis(2-chloroethyl)ether	Ave	1.531	1.542	0.7000	1.01	1.00	0.7	20.0
n-Decane	Ave	1.328	1.304		0.982	1.00	-1.8	20.0
2-Chlorophenol	Ave	1.396	1.380	0.8000	0.988	1.00	-1.2	20.0
1,3-Dichlorobenzene	Ave	1.611	1.618		1.00	1.00	0.5	20.0
1,4-Dichlorobenzene	Ave	1.658	1.659		1.00	1.00	0.0	20.0
Benzyl alcohol	Ave	0.9356	0.6831		0.730	1.00	-27.0*	20.0
1,2-Dichlorobenzene	Ave	1.600	1.580		0.987	1.00	-1.3	20.0
2-Methylphenol	Ave	1.333	1.219	0.7000	0.915	1.00	-8.5	20.0
2,2'-oxybis[1-chloropropane]	Ave	1.970	1.788		0.908	1.00	-9.2	20.0
Indene	Ave	2.741	2.669		1.95	2.00	-2.6	20.0
3 & 4 Methylphenol	Lin1		1.210		0.849	1.00	-15.1	20.0
N-Nitrosodi-n-propylamine	Ave	1.015	0.9680	0.5000	0.953	1.00	-4.7	20.0
Acetophenone	Ave	2.096	1.985	0.0100	0.947	1.00	-5.3	20.0
Hexachloroethane	Ave	0.6015	0.5884	0.3000	0.978	1.00	-2.2	20.0
Nitrobenzene	Ave	0.3326	0.3469	0.2000	1.04	1.00	4.3	20.0
Isophorone	Ave	0.6497	0.6630	0.4000	1.02	1.00	2.0	20.0
2,4-Dimethylphenol	Ave	0.2777	0.2740	0.2000	0.987	1.00	-1.3	20.0
2-Nitrophenol	Lin1		0.1939	0.1000	1.09	1.00	9.0	20.0
Benzoic acid	Qua		0.1642		2.29	2.00	14.5	20.0
Bis(2-chloroethoxy)methane	Ave	0.3995	0.3962	0.3000	0.992	1.00	-0.8	20.0
2,4-Dichlorophenol	Lin1		0.2408	0.2000	0.921	1.00	-7.9	20.0
1,2,4-Trichlorobenzene	Ave	0.2765	0.2950		1.07	1.00	6.7	20.0
Naphthalene	Ave	1.110	1.129	0.7000	1.02	1.00	1.7	20.0
4-Chloroaniline	Ave	0.3926	0.3354	0.0100	0.854	1.00	-14.6	20.0
2,6-Dichlorophenol	Lin1		0.2709		0.998	1.00	-0.2	20.0
Hexachlorobutadiene	Ave	0.1240	0.1405	0.0100	1.13	1.00	13.3	20.0
Caprolactam	Lin1		0.1148	0.0100	1.98	2.00	-1.2	20.0
4-Chloro-3-methylphenol	Lin1		0.2916	0.2000	0.970	1.00	-3.0	20.0
2-Methylnaphthalene	Ave	0.7131	0.7439	0.4000	1.04	1.00	4.3	20.0
1-Methylnaphthalene	Ave	0.6660	0.6780		1.02	1.00	1.8	20.0
Hexachlorocyclopentadiene	Ave	0.2270	0.2343	0.0500	1.03	1.00	3.2	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.4503	0.4745	0.0100	1.05	1.00	5.4	20.0
2,4,6-Trichlorophenol	Lin1		0.3336	0.2000	1.02	1.00	2.3	20.0
2,4,5-Trichlorophenol	Lin1		0.3233	0.2000	0.955	1.00	-4.5	20.0
1,1'-Biphenyl	Ave	1.618	1.575	0.0100	0.973	1.00	-2.7	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Cleveland | Job No.: 240-189273-1

SDG No.:

Lab Sample ID: CCV 240-583312/2 | Calibration Date: 08/09/2023 07:43

Instrument ID: A4AG2 | Calib Start Date: 07/26/2023 08:38

GC Column: RXI-5SILMS/IIG ID: 0.25(mm) | Calib End Date: 07/26/2023 11:48

Lab File ID: CCV L1LVI.D | Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chloronaphthalene	Ave	1.182	1.179	0.8000	0.998	1.00	-0.2	20.0
2-Nitroaniline	Lin1		0.3342	0.0100	0.991	1.00	-0.9	20.0
Dimethyl phthalate	Ave	1.330	1.328	0.0100	0.998	1.00	-0.2	20.0
1,3-Dinitrobenzene	Lin1		0.2122		1.04	1.00	4.0	20.0
2,6-Dinitrotoluene	Ave	0.2818	0.3142		1.12	1.00	11.5	20.0
Acenaphthylene	Ave	1.942	1.987	0.9000	1.02	1.00	2.3	20.0
3-Nitroaniline	Ave	0.2262	0.2203	0.0100	0.974	1.00	-2.6	20.0
2,4-Dinitrophenol	Qua		0.1507	0.0100	2.51	2.00	25.6*	20.0
Acenaphthene	Ave	1.262	1.225	0.9000	0.971	1.00	-2.9	20.0
4-Nitrophenol	Lin1		0.1440		1.92	2.00	-3.9	20.0
2,4-Dinitrotoluene	Lin1		0.4007	0.2000	1.02	1.00	1.8	20.0
Dibenzofuran	Ave	1.601	1.657	0.8000	1.03	1.00	3.4	20.0
2,3,4,6-Tetrachlorophenol	Lin1		0.2240	0.0100	0.993	1.00	-0.7	20.0
Diethyl phthalate	Ave	1.330	1.281	0.0100	0.963	1.00	-3.7	20.0
4-Chlorophenyl phenyl ether	Ave	0.5491	0.5780	0.4000	1.05	1.00	5.3	20.0
4-Nitroaniline	Qua		0.2994	0.0100	1.09	1.00	8.9	20.0
Fluorene	Ave	1.347	1.336	0.9000	0.992	1.00	-0.8	20.0
4,6-Dinitro-2-methylphenol	Qua		0.1401	0.0100	2.34	2.00	16.8	20.0
Diphenylamine	Ave	0.7376	0.7329		0.845	0.850	-0.6	20.0
N-Nitrosodiphenylamine	Ave	0.6270	0.6230	0.0100	0.994	1.00	-0.6	20.0
Azobenzene	Ave	0.9065	0.8465		0.934	1.00	-6.6	20.0
4-Bromophenyl phenyl ether	Ave	0.1862	0.1993	0.1000	1.07	1.00	7.1	20.0
Atrazine	Ave	0.1919	0.2131	0.0100	2.22	2.00	11.0	20.0
Hexachlorobenzene	Lin1		0.1978	0.1000	0.998	1.00	-0.2	20.0
n-Octadecane	Ave	0.5677	0.5315		0.936	1.00	-6.4	20.0
Pentachlorophenol	Qua		0.1180	0.0500	2.00	2.00	0.2	20.0
Phenanthrene	Ave	1.180	1.168	0.7000	0.989	1.00	-1.1	20.0
Anthracene	Ave	1.143	1.166	0.7000	1.02	1.00	2.0	20.0
Carbazole	Ave	1.040	1.097	0.0100	1.05	1.00	5.4	20.0
Di-n-butyl phthalate	Ave	1.384	1.439	0.0100	1.04	1.00	4.0	20.0
Fluoranthene	Ave	1.046	1.147	0.6000	1.10	1.00	9.6	20.0
Benzidine	Qua		0.5921		2.23	2.00	11.7	20.0
Pyrene	Ave	1.575	1.585	0.6000	1.01	1.00	0.6	20.0
Butyl benzyl phthalate	Lin1		0.7706	0.0100	0.888	1.00	-11.2	20.0
Bis(2-ethylhexyl) phthalate	Lin1		1.054	0.0100	0.871	1.00	-12.9	20.0
3,3'-Dichlorobenzidine	Lin1		0.4817	0.0100	2.13	2.00	6.7	20.0
Benzo[a]anthracene	Ave	1.333	1.368	0.8000	1.03	1.00	2.6	20.0
Chrysene	Ave	1.329	1.365	0.7000	1.03	1.00	2.7	20.0
Di-n-octyl phthalate	Lin1		1.578	0.0100	0.803	1.00	-19.7	20.0
Benzo[b]fluoranthene	Ave	1.237	1.207	0.7000	0.976	1.00	-2.4	20.0
Benzo[k]fluoranthene	Ave	1.278	1.209	0.7000	0.946	1.00	-5.4	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Lab Sample ID: CCV 240-583312/2 Calibration Date: 08/09/2023 07:43

Instrument ID: A4AG2 Calib Start Date: 07/26/2023 08:38

GC Column: RXI-5SILMS/IIG ID: 0.25(mm) Calib End Date: 07/26/2023 11:48

Lab File ID: CCV L1LVI.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzo[a]pyrene	Lin1		1.182	0.7000	0.959	1.00	-4.1	20.0
Indeno[1,2,3-cd]pyrene	Lin1		1.382	0.5000	1.00	1.00	0.3	20.0
Dibenz(a,h)anthracene	Lin1		1.168	0.4000	1.01	1.00	1.3	20.0
Benzo[g,h,i]perylene	Ave	1.011	1.111	0.5000	1.10	1.00	9.9	20.0
2-Fluorophenol (Surr)	Ave	0.7867	0.8397		1.07	1.00	6.7	20.0
Phenol-d5 (Surr)	Ave	1.488	1.324		0.890	1.00	-11.0	20.0
Nitrobenzene-d5 (Surr)	Ave	0.3486	0.3803		1.09	1.00	9.1	20.0
2-Fluorobiphenyl (Surr)	Ave	1.342	1.359		1.01	1.00	1.2	20.0
2,4,6-Tribromophenol (Surr)	Lin1		0.1351		1.05	1.00	5.0	20.0
Terphenyl-d14 (Surr)	Ave	1.150	1.138		0.989	1.00	-1.1	20.0

Eurofins Cleveland
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\CCV L1LVI.D
Lims ID: ccv l1lvi
Client ID:
Sample Type: CCVIS
Inject. Date: 09-Aug-2023 07:43:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 240-0132248-002
Misc. Info.: CCV L1LVI
Operator ID: Instrument ID: A4AG2
Sublist: chrom-LVI AG2 8270*sub20

Method: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\LVI AG2 8270.m
Limit Group: MSS 8270D ICAL
Last Update: 10-Aug-2023 12:30:49 Calib Date: 08-Aug-2023 12:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A4AG2\20230808-132200.b\10.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: KDZ4 Date: 09-Aug-2023 08:27:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.712	6.712	0.000	95	258617	400.0	400.0	
* 2 Naphthalene-d8	136	7.777	7.777	0.000	99	1055243	400.0	400.0	
* 3 Acenaphthene-d10	164	9.277	9.277	0.000	92	573302	400.0	400.0	
* 4 Phenanthrene-d10	188	10.559	10.559	0.000	97	880035	400.0	400.0	
* 5 Chrysene-d12	240	13.488	13.488	0.000	98	662537	400.0	400.0	
* 6 Perylene-d12	264	15.859	15.859	0.000	95	729931	400.0	400.0	
$ 7 2-Fluorophenol	112	5.653	5.653	0.000	90	542932	1000.0	1067.4	
$ 8 Phenol-d5	99	6.371	6.371	0.000	0	856129	1000.0	889.6	
$ 9 Nitrobenzene-d5	82	7.159	7.159	0.000	86	1003202	1000.0	1090.9	
$ 10 2-Fluorobiphenyl (Surr)	172	8.665	8.665	0.000	99	1947816	1000.0	1012.3	
$ 11 2,4,6-Tribromophenol	330	9.953	9.953	0.000	92	193607	1000.0	1049.6	
$ 12 Terphenyl-d14	244	12.047	12.047	0.000	97	1885076	1000.0	989.4	
26 1,4-Dioxane	88	4.224	4.224	0.000	94	148233	1000.0	968.5	
27 N-Nitrosodimethylamine	74	4.489	4.489	0.000	94	537254	1000.0	990.2	
28 Pyridine	79	4.548	4.548	0.000	98	942583	2000.0	2308.1	
42 Benzaldehyde	77	6.347	6.347	0.000	94	704238	2000.0	1481.6	
43 Phenol	94	6.383	6.383	0.000	98	858765	1000.0	857.8	
44 Aniline	93	6.430	6.430	0.000	99	1326919	1000.0	937.3	
45 Bis(2-chloroethyl)ether	93	6.453	6.453	0.000	97	996739	1000.0	1007.0	
244 n-Decane	57	6.536	6.536	0.000	90	843067	1000.0	981.6	
47 2-Chlorophenol	128	6.547	6.547	0.000	96	892175	1000.0	988.4	
48 1,3-Dichlorobenzene	146	6.671	6.671	0.000	99	1046317	1000.0	1004.8	
49 1,4-Dichlorobenzene	146	6.724	6.724	0.000	95	1072728	1000.0	1000.5	
50 Benzyl alcohol	108	6.794	6.794	0.000	95	441625	1000.0	730.1	
51 1,2-Dichlorobenzene	146	6.859	6.859	0.000	98	1021225	1000.0	987.3	
52 2-Methylphenol	108	6.877	6.877	0.000	92	788321	1000.0	914.6	
54 2,2'-oxybis[1-chloropropane]	45	6.894	6.894	0.000	93	1156027	1000.0	907.6	
53 Indene	115	6.930	6.930	0.000	89	3451875	2000.0	1948.1	
55 3 & 4 Methylphenol	108	6.994	6.994	0.000	95	782120	1000.0	848.5	
57 N-Nitrosodi-n-propylamine	70	7.000	7.000	0.000	86	625835	1000.0	953.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
58 Acetophenone	105	7.018	7.018	0.000	97	1283316	1000.0	947.0	
61 Hexachloroethane	117	7.147	7.147	0.000	96	380428	1000.0	978.2	
62 Nitrobenzene	77	7.171	7.171	0.000	85	915079	1000.0	1043.0	
64 Isophorone	82	7.359	7.359	0.000	99	1749056	1000.0	1020.4	
65 2-Nitrophenol	139	7.441	7.441	0.000	82	511539	1000.0	1090.1	
66 2,4-Dimethylphenol	107	7.441	7.441	0.000	86	722809	1000.0	986.7	
70 Benzoic acid	122	7.494	7.494	0.000	87	866401	2000.0	2289.4	
69 Bis(2-chloroethoxy)methane	93	7.506	7.506	0.000	98	1045099	1000.0	991.7	
72 2,4-Dichlorophenol	162	7.647	7.647	0.000	93	635192	1000.0	920.6	
73 1,2,4-Trichlorobenzene	180	7.718	7.718	0.000	94	778215	1000.0	1066.9	
74 Naphthalene	128	7.794	7.794	0.000	96	2977932	1000.0	1017.1	
75 4-Chloroaniline	127	7.818	7.818	0.000	96	884693	1000.0	854.2	
76 2,6-Dichlorophenol	162	7.830	7.830	0.000	97	714704	1000.0	998.0	
78 Hexachlorobutadiene	225	7.883	7.883	0.000	98	370625	1000.0	1132.9	
83 Caprolactam	113	8.094	8.094	0.000	84	605771	2000.0	1976.9	
85 4-Chloro-3-methylphenol	107	8.206	8.206	0.000	95	769232	1000.0	970.0	
86 2-Methylnaphthalene	142	8.371	8.371	0.000	93	1962434	1000.0	1043.1	
87 1-Methylnaphthalene	142	8.459	8.459	0.000	93	1788632	1000.0	1018.0	
89 Hexachlorocyclopentadiene	237	8.506	8.506	0.000	97	335776	1000.0	1031.9	
90 1,2,4,5-Tetrachlorobenzene	216	8.518	8.518	0.000	98	680124	1000.0	1053.8	
93 2,4,6-Trichlorophenol	196	8.600	8.600	0.000	93	478193	1000.0	1022.7	
94 2,4,5-Trichlorophenol	196	8.647	8.647	0.000	94	463339	1000.0	954.5	
99 1,1'-Biphenyl	154	8.759	8.759	0.000	94	2256666	1000.0	973.3	
100 2-Chloronaphthalene	162	8.794	8.794	0.000	97	1690362	1000.0	998.0	
101 2-Nitroaniline	65	8.859	8.859	0.000	89	479042	1000.0	990.5	
104 Dimethyl phthalate	163	8.983	8.983	0.000	100	1903030	1000.0	998.0	
103 1,3-Dinitrobenzene	168	9.024	9.024	0.000	87	304149	1000.0	1040.2	
106 2,6-Dinitrotoluene	165	9.047	9.047	0.000	94	450365	1000.0	1115.2	
108 Acenaphthylene	152	9.159	9.159	0.000	98	2848376	1000.0	1023.1	
109 3-Nitroaniline	138	9.212	9.212	0.000	98	315755	1000.0	974.2	
110 2,4-Dinitrophenol	184	9.288	9.288	0.000	84	432076	2000.0	2511.7	
111 Acenaphthene	153	9.300	9.300	0.000	94	1756092	1000.0	970.5	
112 4-Nitrophenol	109	9.330	9.330	0.000	84	412661	2000.0	1921.0	
113 2,4-Dinitrotoluene	165	9.400	9.400	0.000	95	574256	1000.0	1018.5	
115 Dibenzofuran	168	9.447	9.447	0.000	97	2374245	1000.0	1034.4	
118 2,3,4,6-Tetrachlorophenol	232	9.547	9.547	0.000	76	321008	1000.0	992.8	
248 Hexadecane	57	9.559	9.559	0.000	94	1154158	NC	NC	
120 Diethyl phthalate	149	9.571	9.571	0.000	98	1836389	1000.0	963.3	
122 4-Chlorophenyl phenyl ether	204	9.712	9.712	0.000	93	828460	1000.0	1052.6	
125 4-Nitroaniline	138	9.741	9.741	0.000	92	429078	1000.0	1089.2	
124 Fluorene	166	9.741	9.741	0.000	94	1915152	1000.0	991.7	
127 4,6-Dinitro-2-methylphenol	198	9.753	9.753	0.000	87	616247	2000.0	2335.9	
128 N-Nitrosodiphenylamine	169	9.806	9.806	0.000	98	1370605	1000.0	993.7	
129 Diphenylamine	169	9.806	9.806	0.000	95	1370605	850.0	844.6	
131 Azobenzene	77	9.847	9.847	0.000	98	1862391	1000.0	933.9	
130 1,2-Diphenylhydrazine	77	9.847	9.847	0.000	96	1861066	1000.0	933.2	
138 4-Bromophenyl phenyl ether	248	10.135	10.135	0.000	67	438563	1000.0	1070.6	
141 Atrazine	200	10.229	10.229	0.000	94	937546	2000.0	2220.4	
140 Hexachlorobenzene	284	10.235	10.235	0.000	88	435275	1000.0	997.6	
245 n-Octadecane	57	10.347	10.347	0.000	96	1169373	1000.0	936.3	
143 Pentachlorophenol	266	10.388	10.388	0.000	91	519095	2000.0	2003.5	
148 Phenanthrene	178	10.582	10.582	0.000	97	2569027	1000.0	989.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
149 Anthracene	178	10.629	10.629	0.000	97	2564612	1000.0	1019.9	
150 Carbazole	167	10.747	10.747	0.000	96	2412808	1000.0	1054.2	
154 Di-n-butyl phthalate	149	10.971	10.971	0.000	100	3166346	1000.0	1040.1	
159 Fluoranthene	202	11.694	11.694	0.000	99	2523045	1000.0	1096.4	
160 Benzidine	184	11.782	11.782	0.000	100	1961360	2000.0	2233.1	
161 Pyrene	202	11.947	11.947	0.000	96	2624595	1000.0	1006.0	
169 Butyl benzyl phthalate	149	12.576	12.576	0.000	98	1276356	1000.0	888.5	
174 Bis(2-ethylhexyl) phthalate	149	13.335	13.335	0.000	97	1746128	1000.0	871.2	
177 3,3'-Dichlorobenzidine	252	13.382	13.382	0.000	75	1595561	2000.0	2134.5	
178 Benzo[a]anthracene	228	13.470	13.470	0.000	99	2265530	1000.0	1025.9	
179 Chrysene	228	13.529	13.529	0.000	98	2260469	1000.0	1026.7	
181 Di-n-octyl phthalate	149	14.353	14.353	0.000	99	2880076	1000.0	802.6	
183 Benzo[b]fluoranthene	252	15.200	15.200	0.000	99	2203119	1000.0	975.8	
184 Benzo[k]fluoranthene	252	15.247	15.247	0.000	98	2206108	1000.0	945.8	
185 Benzo[a]pyrene	252	15.764	15.764	0.000	80	2157482	1000.0	959.4	
190 Indeno[1,2,3-cd]pyrene	276	17.982	17.982	0.000	96	2522746	1000.0	1003.2	
189 Dibenz(a,h)anthracene	278	17.988	17.988	0.000	92	2130813	1000.0	1013.2	
191 Benzo[g,h,i]perylene	276	18.617	18.617	0.000	94	2027193	1000.0	1099.0	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SMLIST1 L6 W_00021 Amount Added: 0.10 Units: mL

Report Date: 10-Aug-2023 12:30:50 Chrom Revision: 2.3 03-Aug-2023 16:11:04

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\CCV L1LVI.D

Injection Date: 09-Aug-2023 07:43:30 Instrument ID: A4AG2 Operator ID:

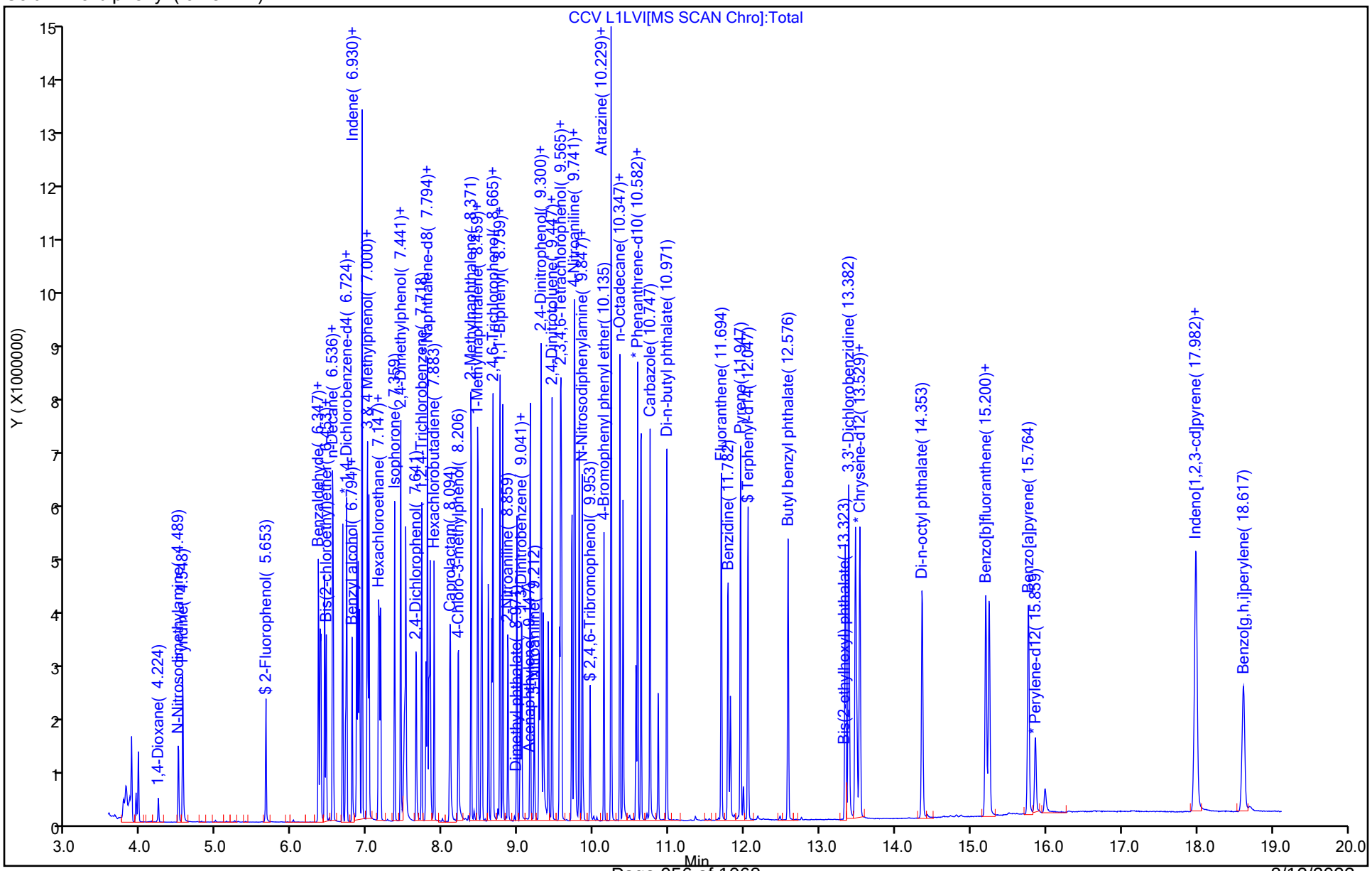
Lims ID: ccv l1lvi Worklist Smp#: 2

Client ID:

Injection Vol: 5.0 ul Dil. Factor: 1.0000 ALS Bottle#: 2

Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL

Column: 5% phenyl (0.18 mm)



8/12/2023
10:47 AM

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Cleveland | Job No.: 240-189273-1

SDG No.:

Lab Sample ID: CCV 240-583312/3 | Calibration Date: 08/09/2023 08:13

Instrument ID: A4AG2 | Calib Start Date: 07/27/2023 09:28

GC Column: RXI-5SILMS/IIG ID: 0.25(mm) | Calib End Date: 07/27/2023 12:11

Lab File ID: CCV L2LVI.D | Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Picoline	Ave	1.117	1.249		1.12	1.00	11.8	20.0
N-Nitrosomethylethylamine	Ave	0.7438	0.7042		0.947	1.00	-5.3	20.0
Methyl methanesulfonate	Ave	0.8403	0.8255		0.982	1.00	-1.8	20.0
N-Nitrosodiethylamine	Ave	0.7899	0.7492		0.949	1.00	-5.1	20.0
Ethyl methanesulfonate	Ave	1.196	1.146		0.959	1.00	-4.1	20.0
Pentachloroethane	Ave	0.3972	0.4406		1.11	1.00	10.9	20.0
N-Nitrosopyrrolidine	Ave	0.7967	0.7883		0.989	1.00	-1.1	20.0
N-Nitrosomorpholine	Ave	0.8712	0.8634		0.991	1.00	-0.9	20.0
o-Toluidine	Ave	2.461	2.529		1.03	1.00	2.7	20.0
N-Nitrosopiperidine	Ave	0.1701	0.1830		1.08	1.00	7.5	20.0
o,o',o''-Triethylphosphorothioate	Ave	0.1373	0.1518		1.11	1.00	10.5	20.0
alpha,alpha-Dimethyl phenethylamine	Lin1		0.3605		0.606	1.00	-39.4*	20.0
Hexachloropropene	Ave	0.1389	0.1571	0.0100	1.13	1.00	13.2	20.0
N-Nitrosodi-n-butylamine	Ave	0.2144	0.2147		1.00	1.00	0.1	20.0
Quinoline	Lin1		0.7077		1.04	1.00	4.3	20.0
p-Phenylene diamine	Lin1		0.2018		0.916	1.00	-8.4	20.0
Safrole, Total	Lin1		0.2671		1.04	1.00	3.6	20.0
Isosafrole Peak 1	Lin1		0.5484		0.164	0.160	2.7	20.0
Isosafrole Peak 2	Ave	0.5533	0.5990		0.909	0.840	8.3	20.0
1,4-Naphthoquinone	Lin1		0.3878		0.991	1.00	-0.9	20.0
1,4-Dinitrobenzene	Lin1		0.1917		1.05	1.00	5.4	20.0
Pentachlorobenzene	Qua		0.3861		1.07	1.00	6.6	20.0
1-Naphthylamine	Ave	1.157	1.166		1.01	1.00	0.8	20.0
2-Naphthylamine	Ave	1.224	1.240		1.01	1.00	1.3	20.0
Thionazin	Ave	0.2925	0.2805		0.959	1.00	-4.1	20.0
N-Nitro-o-toluidine	Ave	0.3407	0.3813		1.12	1.00	11.9	20.0
Sulfotepp	Ave	0.0816	0.0904		1.11	1.00	10.7	20.0
1,3,5-Trinitrobenzene	Qua		0.0643		1.13	1.00	13.0	20.0
Diallate Peak 1	Ave	0.3941	0.3581		0.672	0.740	-9.1	20.0
Phenacetin	Lin1		0.3932		1.01	1.00	0.6	20.0
Phorate	Ave	0.1805	0.1791		0.992	1.00	-0.8	20.0
Diallate Peak 2	Ave	0.3819	0.3539		0.241	0.260	-7.3	20.0
Dimethoate	Lin1		0.3036		0.954	1.00	-4.6	20.0
4-Aminobiphenyl	Ave	0.7504	0.8135		1.08	1.00	8.4	20.0
Pronamide	Ave	0.3109	0.3418		1.10	1.00	9.9	20.0
Pentachloronitrobenzene	Ave	0.0629	0.0738		1.17	1.00	17.4	20.0
Disulfoton	Ave	0.4629	0.4385		0.947	1.00	-5.3	20.0
Dinoseb	Qua		0.1404		1.14	1.00	13.7	20.0
Methyl parathion	Lin1		0.2583		0.997	1.00	-0.3	20.0
Ethyl Parathion	Lin1		0.1538		0.956	1.00	-4.4	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Lab Sample ID: CCV 240-583312/3 Calibration Date: 08/09/2023 08:13

Instrument ID: A4AG2 Calib Start Date: 07/27/2023 09:28

GC Column: RXI-5SILMS/IIG ID: 0.25(mm) Calib End Date: 07/27/2023 12:11

Lab File ID: CCV L2LVI.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Nitroquinoline-1-oxide	Qua		0.0535		0.848	1.00	-15.2	20.0
Methapyrilene	Ave	0.5784	0.5119		1.77	2.00	-11.5	20.0
Isodrin	Ave	0.1155	0.1037		0.898	1.00	-10.2	20.0
Aramite Peak 1	Lin1		0.1475		0.488	0.480	1.7	20.0
Aramite Peak 2	Lin1		0.1874		0.515	0.520	-1.1	20.0
p-Dimethylamino azobenzene	Qua		0.2852		1.00	1.00	0.4	20.0
Chlorobenzilate	Ave	0.5423	0.5229		0.964	1.00	-3.6	20.0
Famphur	Ave	0.1846	0.1389		0.752	1.00	-24.8*	20.0
3,3'-Dimethylbenzidine	Qua		0.6957		1.05	1.00	4.5	20.0
2-Acetylaminofluorene	Lin1		0.6104		0.995	1.00	-0.5	20.0
4,4'-Methylene bis(2-chloroaniline)	Lin1		0.2598		1.02	1.00	2.0	20.0
6-Methylchrysene	Ave	0.9898	1.027		2.08	2.00	3.8	20.0
7,12-Dimethylbenz(a)anthracene	Ave	0.5382	0.5803		1.08	1.00	7.8	20.0
3-Methylcholanthrene	Ave	0.6784	0.7301		2.15	2.00	7.6	20.0
Dibenz[a,h]acridine	Lin1		0.9570		0.989	1.00	-1.1	20.0

Eurofins Cleveland
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\CCV L2LVI.D
Lims ID: ccv l2lvi
Client ID:
Sample Type: CCV
Inject. Date: 09-Aug-2023 08:13:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 240-0132248-003
Misc. Info.: CCV L2LVI
Operator ID: Instrument ID: A4AG2
Sublist: chrom-LVI AG2 8270*sub21

Method: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\LVI AG2 8270.m
Limit Group: MSS 8270D ICAL
Last Update: 10-Aug-2023 12:37:20 Calib Date: 08-Aug-2023 12:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A4AG2\20230808-132200.b\10.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: KDZ4 Date: 09-Aug-2023 08:47:14

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.712	6.712	0.000	95	257762	400.0	400.0	
* 2 Naphthalene-d8	136	7.777	7.777	0.000	99	1167936	400.0	400.0	
* 3 Acenaphthene-d10	164	9.277	9.277	0.000	93	617236	400.0	400.0	
* 4 Phenanthrene-d10	188	10.565	10.565	0.000	97	971182	400.0	400.0	
* 5 Chrysene-d12	240	13.494	13.494	0.000	98	693115	400.0	400.0	
* 6 Perylene-d12	264	15.865	15.865	0.000	95	736471	400.0	400.0	
31 2-Picoline	93	5.183	5.183	0.000	95	804808	1000.0	1118.0	
32 N-Nitrosomethylethylamine	88	5.254	5.254	0.000	92	453813	1000.0	946.8	
34 Methyl methanesulfonate	80	5.483	5.483	0.000	86	531965	1000.0	982.4	
36 N-Nitrosodiethylamine	102	5.818	5.818	0.000	96	482817	1000.0	948.6	
37 Ethyl methanesulfonate	79	6.036	6.036	0.000	98	738458	1000.0	958.5	
46 Pentachloroethane	167	6.489	6.489	0.000	95	283920	1000.0	1109.3	
56 N-Nitrosopyrrolidine	100	6.995	6.995	0.000	95	507976	1000.0	989.5	
59 N-Nitrosomorpholine	56	7.018	7.018	0.000	92	556367	1000.0	991.0	
60 2-Toluidine	106	7.053	7.053	0.000	95	1629444	1000.0	1027.4	
63 N-Nitrosopiperidine	114	7.289	7.289	0.000	86	534227	1000.0	1075.5	
68 o,o',o''-Triethylphosphorothioat	198	7.477	7.477	0.000	87	443311	1000.0	1105.5	
71 alpha,alpha-Dimethyl phenethylam	58	7.612	7.612	0.000	97	1052716	1000.0	605.9	
77 Hexachloropropene	213	7.871	7.871	0.000	91	458747	1000.0	1131.5	
82 N-Nitrosodi-n-butylamine	84	8.065	8.065	0.000	94	626766	1000.0	1001.0	
81 Quinoline	129	8.071	8.071	0.000	98	2066231	1000.0	1043.2	
84 p-Phenylene diamine	108	8.106	8.106	0.000	98	589311	1000.0	916.1	
92 Safrole, Total	162	8.271	8.271	0.000	93	779770	1000.0	1035.9	
95 Isosafrole Peak 1	162	8.518	8.518	0.000	93	135391	160.0	164.3	
91 Isosafrole Peak 2	162	8.712	8.712	0.000	94	776479	840.0	909.4	a
102 1,4-Naphthoquinone	158	8.930	8.930	0.000	91	598419	1000.0	990.9	
105 1,4-Dinitrobenzene	168	8.959	8.959	0.000	92	295787	1000.0	1054.4	
114 Pentachlorobenzene	250	9.424	9.424	0.000	98	595764	1000.0	1065.8	
116 2,3,5,6-Tetrachlorophenol	232	9.512	9.512	0.000	56	318842	NC	NC	
117 1-Naphthylamine	143	9.512	9.512	0.000	99	1799898	1000.0	1008.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
119 2-Naphthylamine	143	9.577	9.577	0.000	97	1913583	1000.0	1013.0	
121 Thionazin	97	9.653	9.653	0.000	83	432845	1000.0	959.1	
123 N-Nitro-o-toluidine	152	9.736	9.736	0.000	97	588322	1000.0	1119.1	
132 Sulfotepp	202	9.900	9.900	0.000	79	219460	1000.0	1107.3	
133 1,3,5-Trinitrobenzene	213	10.000	10.000	0.000	84	156002	1000.0	1130.5	
134 Diallate Peak 1	86	10.041	10.041	0.000	95	643471	740.0	672.4	
135 Phenacetin	108	10.047	10.047	0.000	93	954590	1000.0	1006.5	
136 Phorate	121	10.053	10.053	0.000	96	434780	1000.0	992.2	
137 Diallate Peak 2	86	10.124	10.124	0.000	94	223418	260.0	240.9	
139 Dimethoate	87	10.206	10.206	0.000	97	737194	1000.0	954.4	
142 4-Aminobiphenyl	169	10.365	10.365	0.000	88	1975119	1000.0	1084.1	
144 Pronamide	173	10.377	10.377	0.000	90	829767	1000.0	1099.1	
145 Pentachloronitrobenzene	237	10.406	10.406	0.000	85	179224	1000.0	1174.4	
146 Disulfoton	88	10.494	10.494	0.000	96	1064692	1000.0	947.4	
147 Dinoseb	211	10.506	10.506	0.000	94	340931	1000.0	1136.8	
152 Methyl parathion	109	10.836	10.836	0.000	91	627252	1000.0	997.3	
155 Ethyl Parathion	97	11.171	11.171	0.000	84	373528	1000.0	955.8	
156 4-Nitroquinoline-1-oxide	190	11.259	11.259	0.000	88	129997	1000.0	848.3	
157 Methapyrilene	58	11.283	11.283	0.000	95	2485540	2000.0	1770.0	
158 Isodrin	66	11.547	11.547	0.000	92	251747	1000.0	897.6	
162 Aramite Peak 1	185	11.965	11.965	0.000	0	122675	480.0	488.1	a
163 Aramite Peak 2	185	12.047	12.047	0.000	0	168817	520.0	514.5	
164 p-Dimethylamino azobenzene	225	12.206	12.206	0.000	89	494175	1000.0	1004.0	
165 Chlorobenzilate	139	12.235	12.235	0.000	86	906033	1000.0	964.1	
168 Famphur	218	12.541	12.541	0.000	86	240707	1000.0	752.4	
170 3,3'-Dimethylbenzidine	212	12.618	12.618	0.000	99	1205415	1000.0	1045.3	
172 2-Acetylaminofluorene	181	12.971	12.971	0.000	95	1057617	1000.0	994.6	
175 4,4'-Methylene bis(2-chloroanil	231	13.371	13.371	0.000	96	450167	1000.0	1019.9	
180 6-Methylchrysene	242	14.229	14.229	0.000	99	3560474	2000.0	2075.9	
182 7,12-Dimethylbenz(a)anthracene	256	15.176	15.176	0.000	94	1068463	1000.0	1078.2	
186 3-Methylcholanthrene	268	16.370	16.370	0.000	95	2688583	2000.0	2152.5	
188 Dibenz[a,h]acridine	279	17.447	17.447	0.000	92	1762038	1000.0	988.9	
S 194 Isosafrole	162				0		1000.0	1073.7	
S 195 Diallate	86				0		1000.0	913.3	
S 196 Aramite, Total	185				0		1000.0	1002.6	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

a - User Assigned ID

Reagents:

SMLIST2 L6 W_00032 Amount Added: 0.10 Units: mL

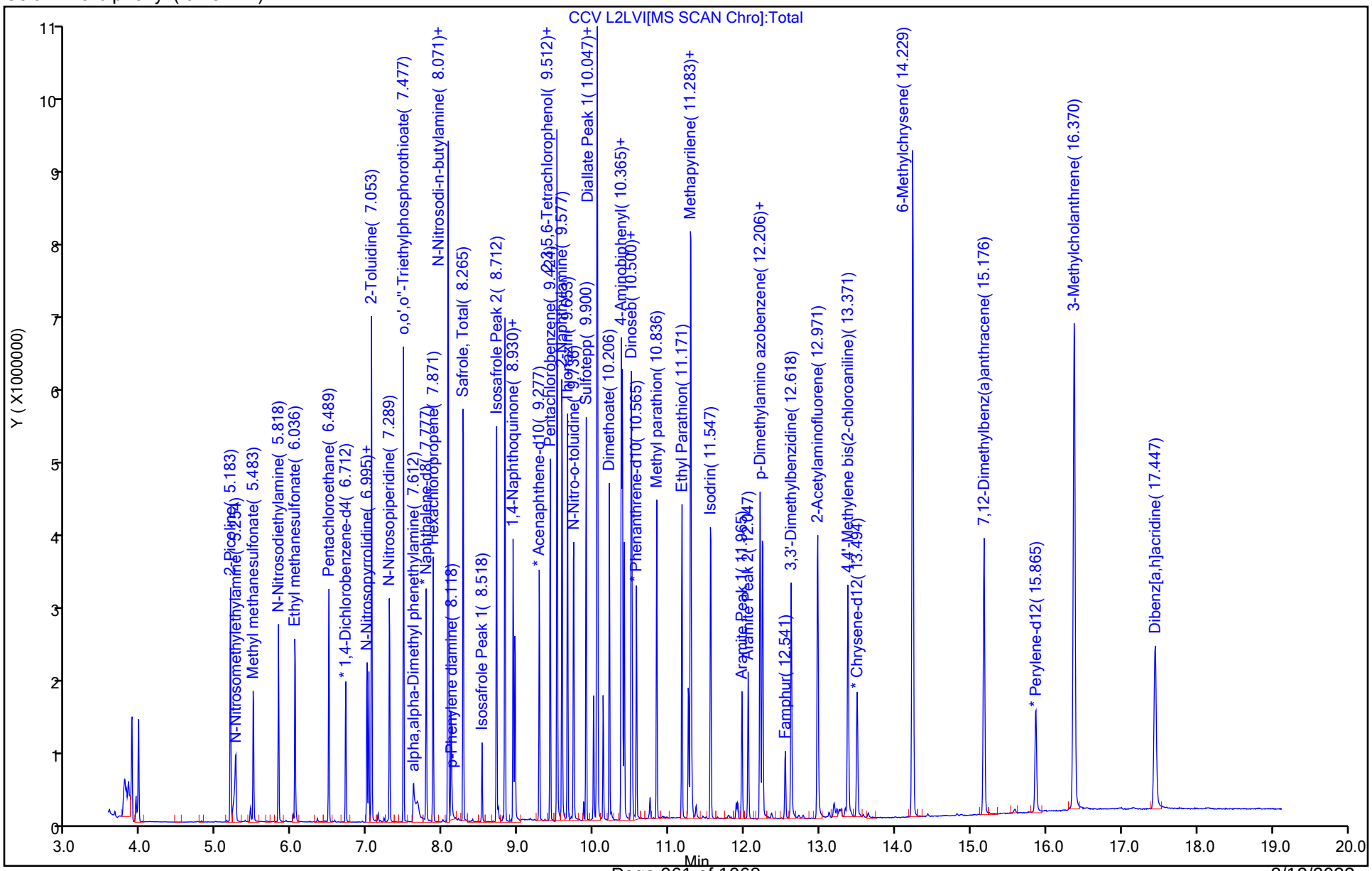
Report Date: 10-Aug-2023 12:37:21 Chrom Revision: 2.3 03-Aug-2023 16:11:04

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\CCV L2LVI.D

Injection Date:	09-Aug-2023 08:13:30	Instrument ID:	A4AG2	Operator ID:	
Lims ID:	ccv l2lvi			Worklist Smp#:	3
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		

Column: 5% phenyl (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Cleveland

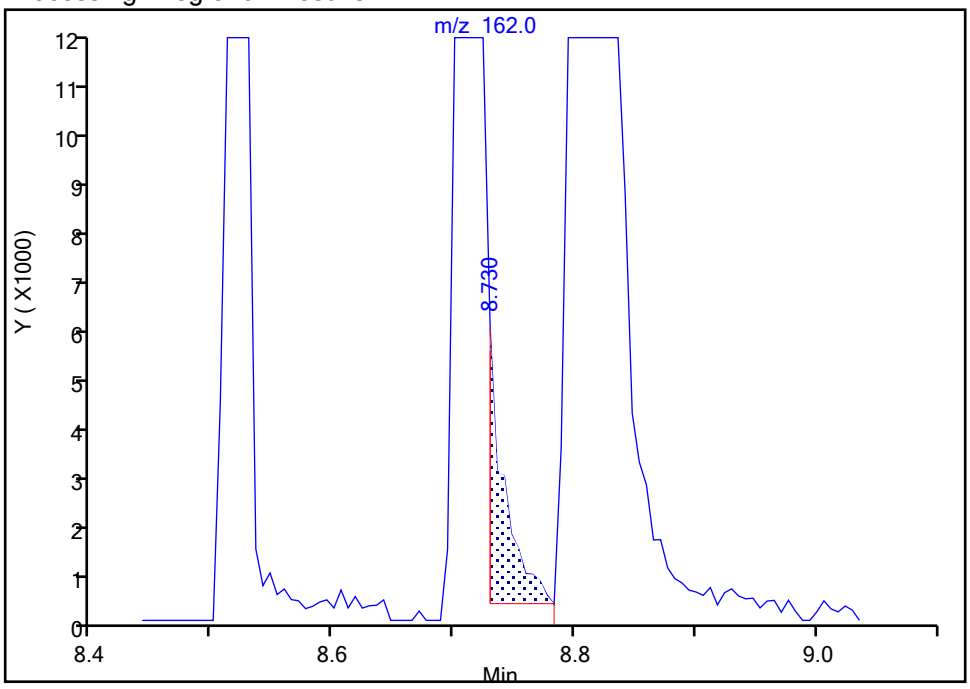
Data File: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\CCV L2LVI.D
Injection Date: 09-Aug-2023 08:13:30 Instrument ID: A4AG2
Lims ID: ccv l2lvi
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL
Column: 5% phenyl (0.18 mm) Detector MS SCAN

91 Isosafrole Peak 2, CAS: 120-58-1

Signal: 1

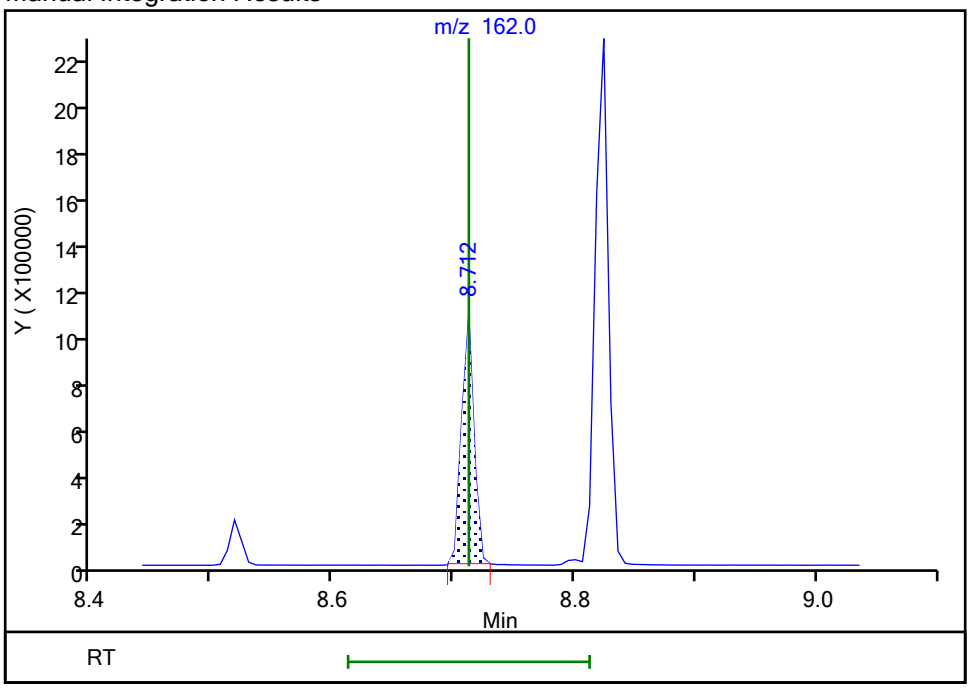
Processing Integration Results

RT: 8.73
Area: 5401
Amount: 6.325898
Amount Units: ng/ml



Manual Integration Results

RT: 8.71
Area: 776479
Amount: 909.4477
Amount Units: ng/ml



Reviewer: KDZ4, 09-Aug-2023 08:37:26 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Cleveland

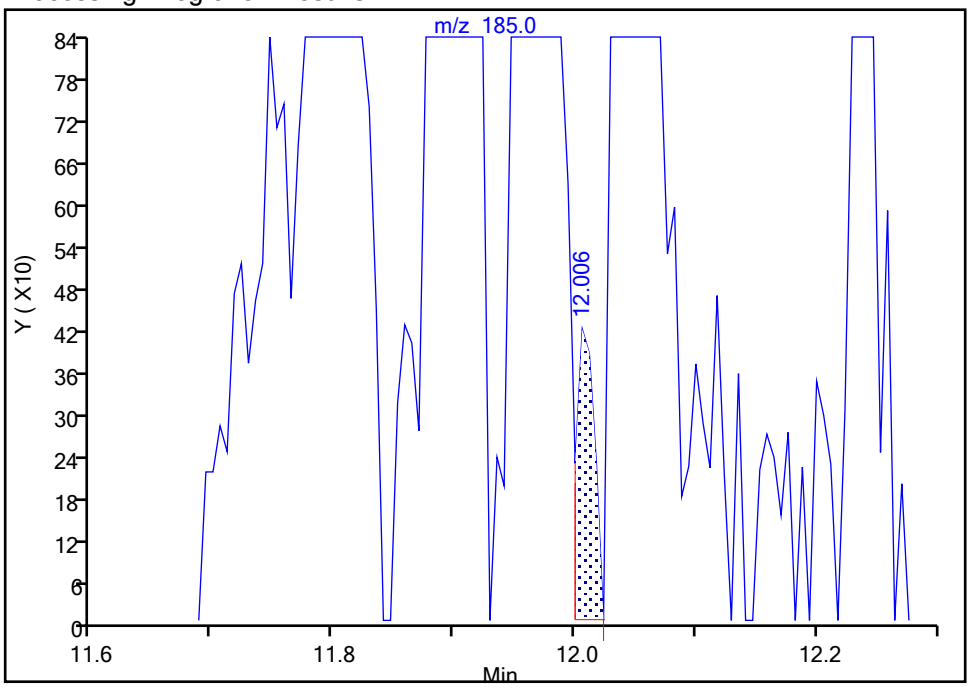
Data File:	\\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\CCV L2LVI.D				
Injection Date:	09-Aug-2023 08:13:30	Instrument ID:	A4AG2		
Lims ID:	ccv l2lvi				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

162 Aramite Peak 1, CAS: STL00690

Signal: 1

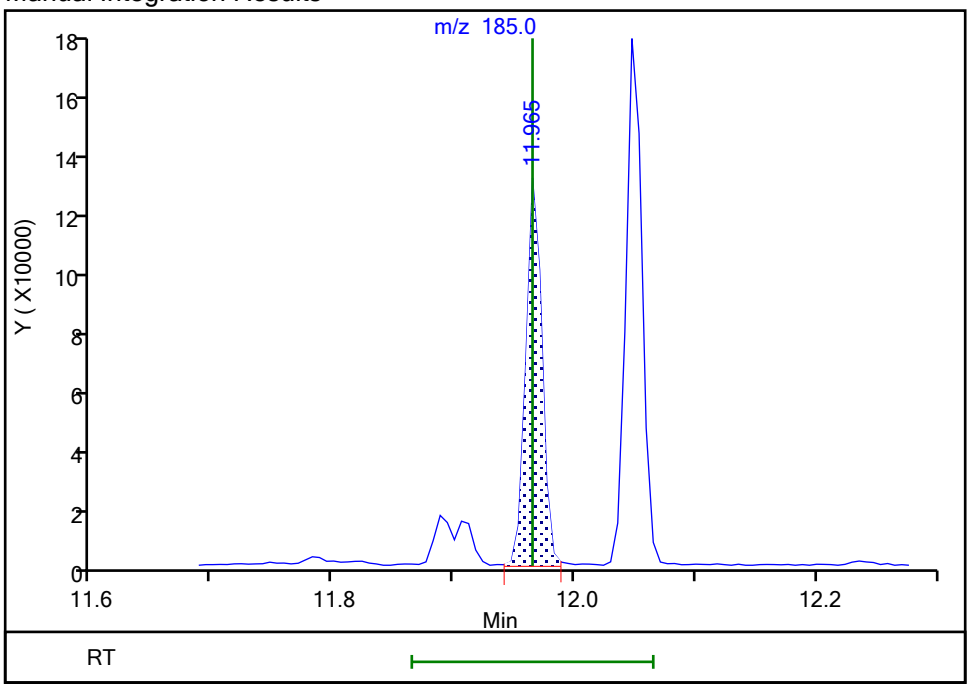
Processing Integration Results

RT: 12.01
Area: 441
Amount: 13.229922
Amount Units: ng/ml



Manual Integration Results

RT: 11.96
Area: 122675
Amount: 488.1184
Amount Units: ng/ml



Reviewer: KDZ4, 09-Aug-2023 08:38:07 -04:00:00 (UTC)

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins Cleveland
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\DFTPP.D
Lims ID: dftpp
Client ID:
Sample Type: DFTPP
Inject. Date: 26-Jul-2023 08:17:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 240-0131814-001
Misc. Info.: DFTPP
Operator ID: Instrument ID: A4AG2

Method: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\LVI AG2 8270.m
Limit Group: MSS 8270D ICAL
Last Update: 26-Jul-2023 13:12:36 Calib Date: 26-Jul-2023 11:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\10.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: CTX1679

First Level Reviewer: KDZ4 Date: 26-Jul-2023 08:49:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
143 Pentachlorophenol	266	10.430	10.430	0.000	89	516790	NR	NR	
160 Benzidine	184	11.830	11.830	0.000	99	2889379	NR	NR	
151 DFTPP									
167 4,4'-DDE	246	12.042	12.042	0.000	80	1036		NR	
166 4,4'-DDD	235	12.430	12.430	0.000	92	4402		NR	
171 4,4'-DDT	235	12.824	12.824	0.000	96	1579407	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

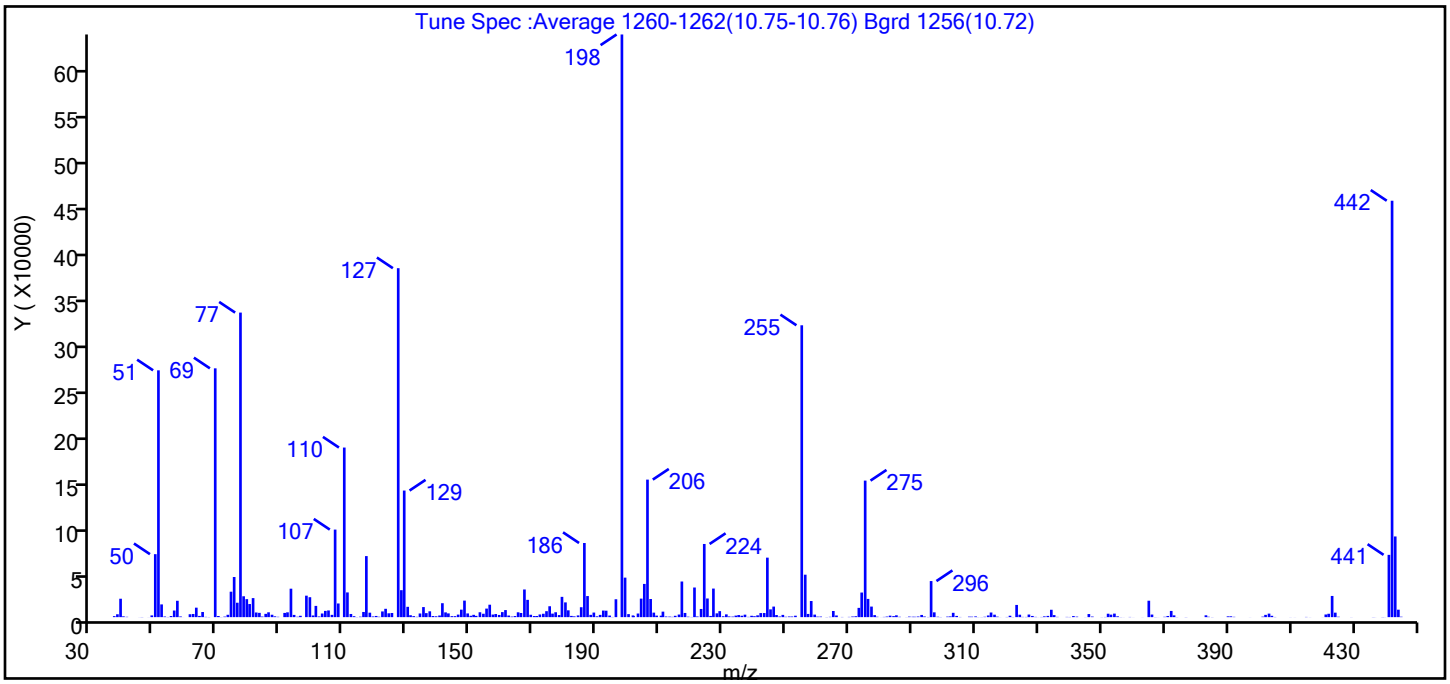
SMDFTPPW_00025 Amount Added: 0.10 Units: mL

MS Tune Report

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\DFTPP.D
Injection Date: 26-Jul-2023 08:17:30 Instrument ID: A4AG2
Lims ID: dftpp
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL
Tune Method: DFTPP Method CLP OLM4.2

151 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base peak, 100 percent relative abundance	100
51	30.0 - 80.0 percent of mass 198	42.4
68	Less than 2.0 percent of mass 69	0.0 (0.0)
69	Present	42.7
70	Less than 2.0 percent of mass 69	0.2 (0.5)
127	25.0 - 75.0 percent of mass 198	59.9
197	Less than 1.0 percent of mass 198	0.0
199	5.0 - 9.0 percent of mass 198	6.8
275	10.0 - 30.0 percent of mass 198	23.4
365	Greater than 0.75 percent of mass 198	2.8
441	Present but less than mass 443	10.7 (77.2)
442	40.0 - 110.0 percent of mass 198	71.5
443	15.0 - 24.0 percent of mass 442	13.8 (19.4)

Data File: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\DFTPP.D\LVI AG2 8270.rslt\spectra.d
Injection Date: 26-Jul-2023 08:17:30
Spectrum: Tune Spec :Average 1260-1262(10.75-10.76) Bgrd 1256(10.72)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 341

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	1105	133.00	357	220.00	196	314.00	1831
38.00	3137	134.00	4006	221.00	32416	315.00	5066
39.00	20144	135.00	11011	222.00	708	316.00	2683
40.00	874	136.00	4386	223.00	8956	317.00	553
41.00	369	137.00	6378	224.00	80048	318.00	61
45.00	68	138.00	1205	225.00	20416	320.00	197
46.00	161	139.00	945	226.00	1329	321.00	1535
48.00	66	140.00	1779	227.00	31264	322.00	165
49.00	1876	141.00	15252	228.00	4157	323.00	13351
50.00	68896	142.00	5214	229.00	6563	324.00	2661
51.00	270016	143.00	4085	230.00	946	325.00	266
52.00	13938	144.00	1087	231.00	3026	326.00	221
53.00	686	145.00	1073	232.00	783	327.00	2860
54.00	181	146.00	2782	233.00	608	328.00	1299
55.00	1214	147.00	8192	234.00	1673	329.00	298
56.00	7226	148.00	18096	235.00	2268	330.00	54
57.00	17896	149.00	4061	236.00	1553	331.00	214
58.00	739	150.00	1505	237.00	2712	332.00	850
59.00	38	151.00	2527	238.00	294	333.00	1364
61.00	3177	152.00	1420	239.00	1488	334.00	8078
62.00	3460	153.00	5344	240.00	1009	335.00	2213
63.00	10367	154.00	3708	241.00	1979	336.00	294
64.00	1331	155.00	9349	242.00	4461	339.00	257
65.00	5620	156.00	13611	243.00	4511	340.00	204
66.00	290	157.00	2830	244.00	65088	341.00	1170
67.00	165	158.00	3393	245.00	8503	342.00	559
69.00	272192	159.00	2393	246.00	11550	345.00	79
70.00	1237	160.00	5509	247.00	2300	346.00	3380
71.00	134	161.00	7724	248.00	693	347.00	644
72.00	591	162.00	1767	249.00	2465	350.00	99
73.00	2574	163.00	613	250.00	400	351.00	197
74.00	27832	164.00	1183	251.00	709	352.00	3743
75.00	43904	165.00	5295	252.00	686	353.00	2745

Report Date: 26-Jul-2023 13:12:36 Chrom Revision: 2.3 19-Jul-2023 18:28:48
Data File: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\DFTPP.D\LVI AG2 8270.rslt\spectra.d
Injection Date: 26-Jul-2023 08:17:30
Spectrum: Tune Spec :Average 1260-1262(10.75-10.76) Bgrd 1256(10.72)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 341

m/z	Y	m/z	Y	m/z	Y	m/z	Y
76.00	15773	166.00	4535	253.00	1570	354.00	3866
77.00	333184	167.00	30264	255.00	319296	355.00	894
78.00	22840	168.00	18920	256.00	46448	356.00	123
79.00	19688	169.00	2600	257.00	3504	357.00	58
80.00	14344	170.00	1191	258.00	17640	359.00	218
81.00	20824	171.00	1237	259.00	2765	360.00	54
82.00	5090	172.00	2940	260.00	577	363.00	56
83.00	4692	173.00	3696	261.00	622	365.00	17968
84.00	640	174.00	6523	263.00	151	366.00	2830
85.00	3601	175.00	11928	264.00	350	367.00	144
86.00	5291	176.00	3859	265.00	6725	368.00	57
87.00	2621	177.00	5353	266.00	1817	370.00	385
88.00	882	178.00	2249	268.00	206	371.00	1271
89.00	373	179.00	22192	270.00	265	372.00	6798
91.00	4623	180.00	16133	271.00	714	373.00	1928
92.00	5268	181.00	7463	272.00	993	374.00	119
93.00	31128	182.00	1361	273.00	10136	377.00	61
94.00	2441	183.00	850	274.00	26912	377.00	92
95.00	441	184.00	1888	275.00	149376	383.00	2018
96.00	1483	185.00	10849	276.00	19944	384.00	451
98.00	23488	186.00	81112	277.00	11554	385.00	127
99.00	21816	187.00	23064	278.00	2212	390.00	863
100.00	1804	188.00	2500	279.00	449	391.00	905
101.00	12301	189.00	5012	280.00	54	392.00	343
102.00	725	190.00	880	281.00	262	397.00	59
103.00	3987	191.00	2467	282.00	612	401.00	540
104.00	6835	192.00	7198	283.00	1631	402.00	2492
105.00	7325	193.00	7045	284.00	1119	403.00	3852
106.00	2496	194.00	1738	285.00	2011	404.00	1453
107.00	95784	195.00	195	286.00	395	405.00	199
108.00	14954	196.00	19576	288.00	98	410.00	74
110.00	185536	198.00	637440	289.00	610	411.00	52
111.00	27048	199.00	43224	290.00	450	415.00	235
112.00	3457	200.00	3316	291.00	414	416.00	69

Report Date: 26-Jul-2023 13:12:36 Chrom Revision: 2.3 19-Jul-2023 18:28:48
Data File: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\DFTPP.D\LVI AG2 8270.rslt\spectra.d
Injection Date: 26-Jul-2023 08:17:30
Spectrum: Tune Spec :Average 1260-1262(10.75-10.76) Bgrd 1256(10.72)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 341

m/z	Y	m/z	Y	m/z	Y	m/z	Y
113.00	1031	202.00	1866	292.00	692	420.00	55
114.00	142	202.00	1177	293.00	2406	421.00	2904
115.00	508	203.00	3963	294.00	717	422.00	3695
116.00	5659	204.00	20264	295.00	190	423.00	23184
117.00	66792	205.00	36344	296.00	39472	424.00	4903
118.00	4873	206.00	150464	297.00	5255	425.00	463
119.00	739	207.00	19840	298.00	461	429.00	85
120.00	1296	208.00	4939	299.00	170	436.00	124
121.00	444	209.00	1682	301.00	582	437.00	63
122.00	6240	210.00	1606	302.00	797	439.00	161
123.00	9132	211.00	6022	303.00	4727	440.00	86
124.00	4214	212.00	690	304.00	1344	441.00	68144
125.00	4546	213.00	604	305.00	206	442.00	455552
127.00	381760	214.00	320	308.00	553	443.00	88264
128.00	29496	215.00	1470	309.00	502	444.00	8157
129.00	138496	216.00	2831	310.00	799	445.00	471
130.00	11293	217.00	38984	311.00	112		
131.00	2093	218.00	4587	312.00	123		
132.00	1101	219.00	514	313.00	407		

Report Date: 26-Jul-2023 13:12:36 Chrom Revision: 2.3 19-Jul-2023 18:28:48

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\DFTPP.D

Injection Date: 26-Jul-2023 08:17:30 Instrument ID: A4AG2 Operator ID:

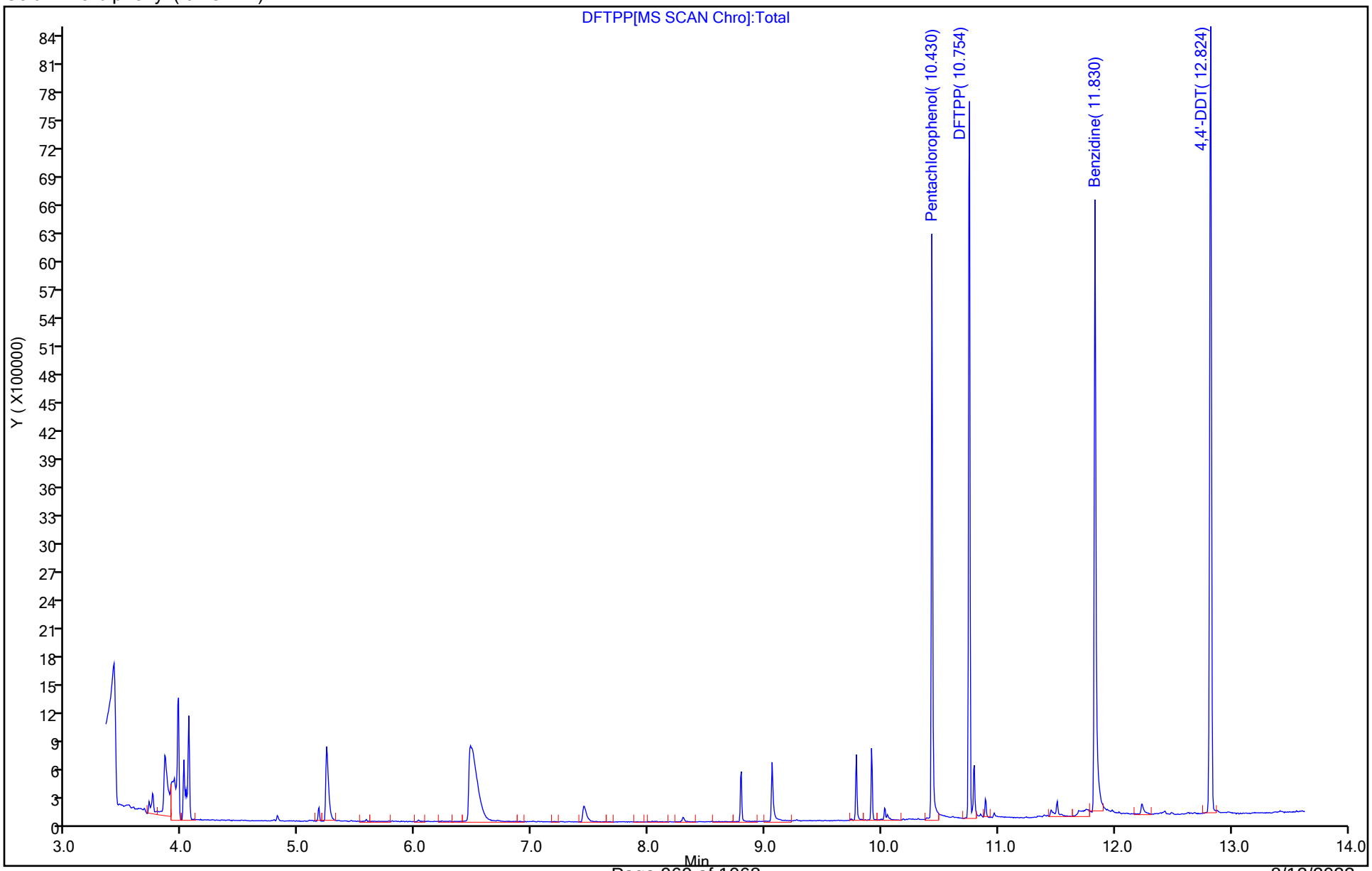
Lims ID: dftpp Worklist Smp#: 1

Client ID:

Injection Vol: 5.0 ul Dil. Factor: 1.0000 ALS Bottle#: 1

Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL

Column: 5% phenyl (0.18 mm)



8/12/2023
10:47 AM

Breakdown Report

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\DFTPP.D
Injection Date: 26-Jul-2023 08:17:30 Instrument ID: A4AG2
Lims ID: dftpp
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL

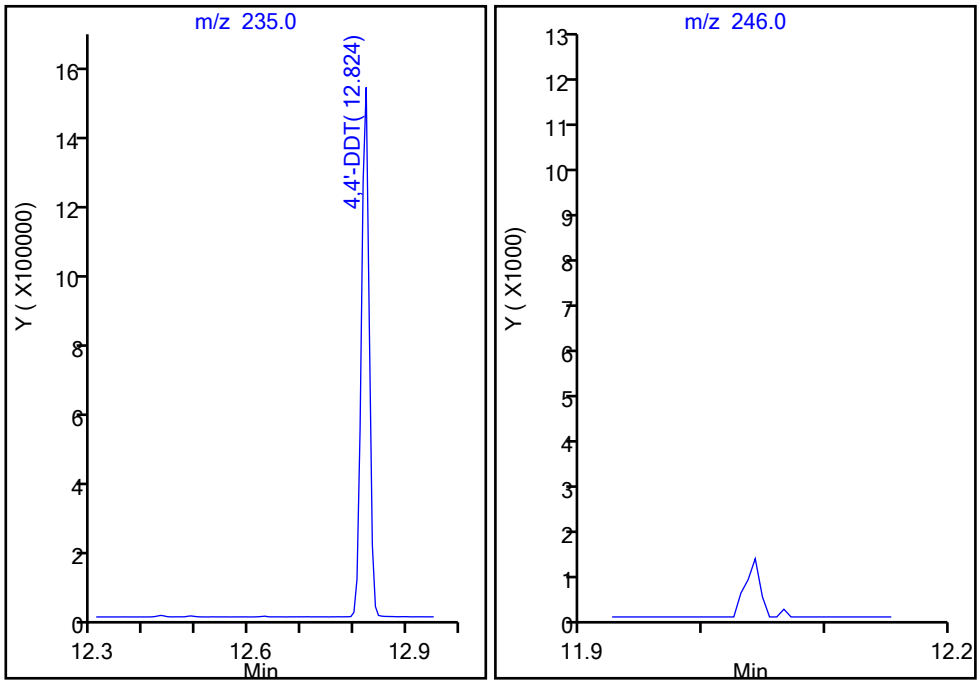
171 4,4'-DDT, Detector: MS SCAN

SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

171 4,4'-DDT, Area = 1579407
166 4,4'-DDD, Area = 4402
167 4,4'-DDE, Area = 1036

%Breakdown: 0.34%, <= 20.00%
Passed



Peak Tailing Report

Eurofins Cleveland

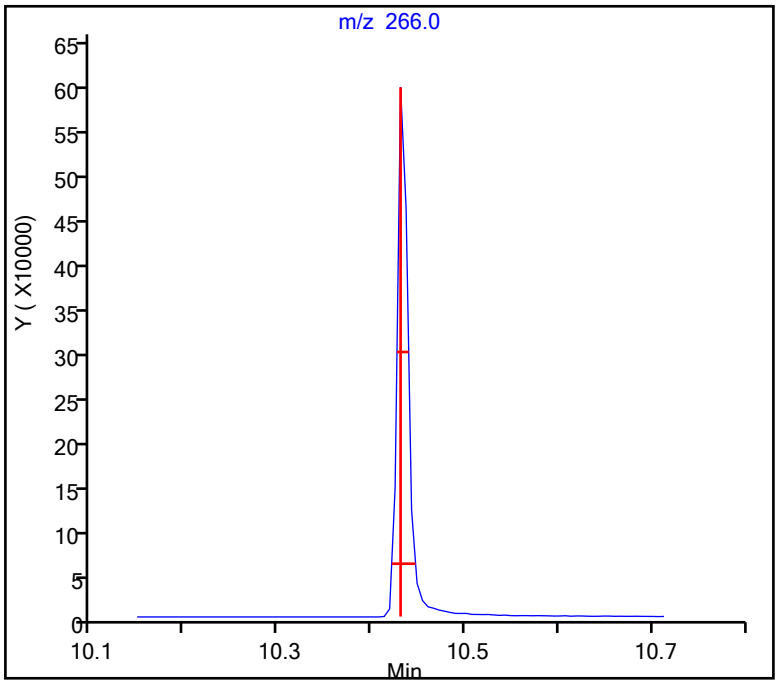
Data File: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\DFTPP.D
Injection Date: 26-Jul-2023 08:17:30 Instrument ID: A4AG2
Lims ID: dftpp
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL

143 Pentachlorophenol, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.016 (min.)
Front Width = 0.010 (min.)

Tailing Factor = 1.60, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Cleveland

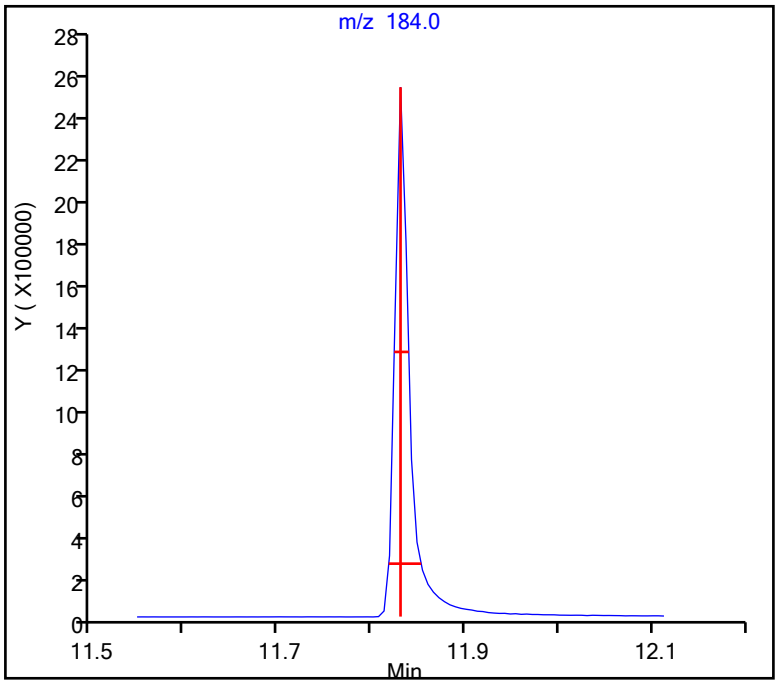
Data File: \\chromfs\Canton\ChromData\A4AG2\20230726-131814.b\DFTPP.D
Injection Date: 26-Jul-2023 08:17:30 Instrument ID: A4AG2
Lims ID: dftpp
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL

160 Benzidine, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.022 (min.)
Front Width = 0.013 (min.)

Tailing Factor = 1.69, Max. Tailing <= 2.00
Passed



Eurofins Cleveland
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\DFTPP.D
Lims ID: dftpp
Client ID:
Sample Type: DFTPP
Inject. Date: 27-Jul-2023 08:41:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 240-0131856-001
Misc. Info.: DFTPP
Operator ID: Instrument ID: A4AG2

Method: \\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\LVI AG2 8270.m
Limit Group: MSS 8270D ICAL
Last Update: 27-Jul-2023 16:36:26 Calib Date: 27-Jul-2023 12:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\10.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: CTX1652

First Level Reviewer: KDZ4 Date: 27-Jul-2023 08:59:24

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
143 Pentachlorophenol	266	10.422	10.422	0.000	90	615015	NR	NR	
160 Benzidine	184	11.816	11.816	0.000	100	3660172	NR	NR	
151 DFTPP									
167 4,4'-DDE	246	12.016	12.016	0.000	89	3650		NR	
166 4,4'-DDD	235	12.416	12.416	0.000	92	9269		NR	
171 4,4'-DDT	235	12.804	12.804	0.000	97	1760037	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

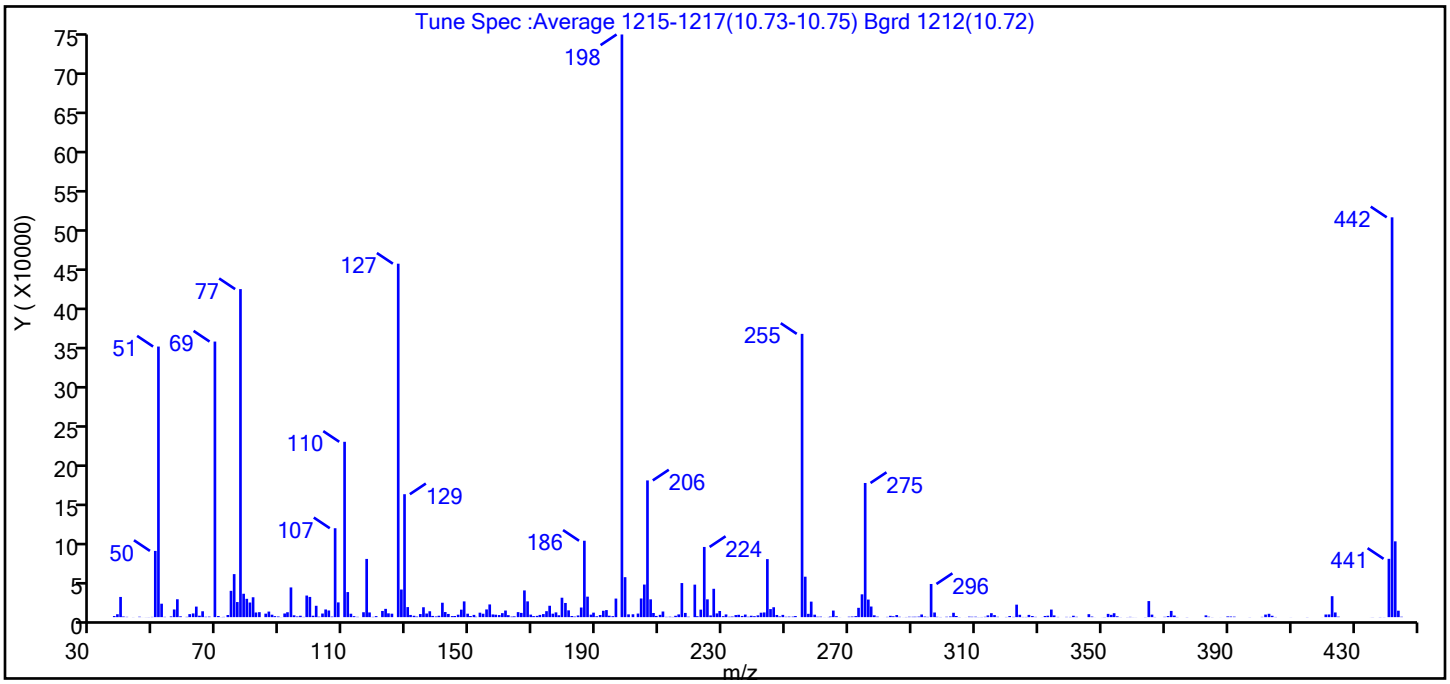
SMDFTPPW_00025 Amount Added: 0.10 Units: mL

MS Tune Report

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\DFTPP.D
Injection Date: 27-Jul-2023 08:41:30 Instrument ID: A4AG2
Lims ID: dftpp
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL
Tune Method: DFTPP Method CLP OLM4.2

151 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base peak, 100 percent relative abundance	100
51	30.0 - 80.0 percent of mass 198	46.4
68	Less than 2.0 percent of mass 69	0.0 (0.0)
69	Present	47.3
70	Less than 2.0 percent of mass 69	0.2 (0.4)
127	25.0 - 75.0 percent of mass 198	60.7
197	Less than 1.0 percent of mass 198	0.0
199	5.0 - 9.0 percent of mass 198	6.9
275	10.0 - 30.0 percent of mass 198	23.0
365	Greater than 0.75 percent of mass 198	2.8
441	Present but less than mass 443	10.0 (76.9)
442	40.0 - 110.0 percent of mass 198	68.6
443	15.0 - 24.0 percent of mass 442	13.0 (19.0)

Data File: \\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\DFTPP.D\LVI AG2 8270.rslt\spectra.d
Injection Date: 27-Jul-2023 08:41:30
Spectrum: Tune Spec :Average 1215-1217(10.73-10.75) Bgrd 1212(10.72)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 338

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	1393	130.00	12767	217.00	43336	309.00	509
38.00	3689	131.00	2794	218.00	5378	310.00	580
39.00	25680	132.00	1757	219.00	570	311.00	147
40.00	830	133.00	758	221.00	41328	312.00	215
41.00	399	134.00	3925	222.00	1167	313.00	440
43.00	111	135.00	12571	223.00	9546	314.00	2245
45.00	538	136.00	4602	224.00	89240	315.00	5035
46.00	50	137.00	7485	225.00	22640	316.00	2629
47.00	95	138.00	1559	226.00	2168	317.00	472
48.00	148	139.00	858	227.00	36056	320.00	240
49.00	299	140.00	1792	228.00	4766	321.00	1401
50.00	84200	141.00	18328	229.00	7823	322.00	326
51.00	344000	142.00	6495	230.00	1227	323.00	15881
52.00	17088	143.00	4065	231.00	3447	324.00	2991
53.00	381	144.00	1345	232.00	541	325.00	256
55.00	920	145.00	1454	233.00	785	326.00	251
56.00	9760	146.00	3128	234.00	2619	327.00	2860
57.00	22760	147.00	9507	235.00	2977	328.00	1418
58.00	1049	148.00	20024	236.00	1520	329.00	378
60.00	372	149.00	4379	237.00	3285	331.00	74
61.00	3837	150.00	1449	238.00	543	332.00	1482
62.00	4715	151.00	2872	239.00	1788	333.00	1821
63.00	13407	152.00	503	240.00	1233	334.00	9641
64.00	1817	153.00	5670	241.00	2276	335.00	2197
65.00	7468	154.00	4336	242.00	5636	336.00	302
66.00	457	155.00	9797	243.00	5970	339.00	342
67.00	678	156.00	16161	244.00	73768	340.00	270
69.00	350336	157.00	3442	245.00	10240	341.00	1775
70.00	1394	158.00	3102	246.00	12580	342.00	453
71.00	134	159.00	2632	247.00	2785	346.00	3761
72.00	340	160.00	5092	248.00	882	347.00	753
73.00	2702	161.00	8390	249.00	2873	348.00	53
74.00	33432	162.00	2511	250.00	470	350.00	55

Report Date: 27-Jul-2023 16:36:27 Chrom Revision: 2.3 19-Jul-2023 18:28:48
Data File: \\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\DFTPP.D\LVI AG2 8270.rslt\spectra.d
Injection Date: 27-Jul-2023 08:41:30
Spectrum: Tune Spec :Average 1215-1217(10.73-10.75) Bgrd 1212(10.72)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 338

m/z	Y	m/z	Y	m/z	Y	m/z	Y
75.00	54696	163.00	700	251.00	718	351.00	190
76.00	19184	164.00	1007	252.00	694	352.00	4161
77.00	417024	165.00	6375	253.00	1424	353.00	2915
78.00	29736	166.00	5400	255.00	360128	354.00	4994
79.00	23296	167.00	33976	256.00	51416	355.00	1050
80.00	18592	168.00	20056	257.00	4196	356.00	122
81.00	25280	169.00	3210	258.00	19736	358.00	138
82.00	5908	170.00	1330	259.00	3114	359.00	354
83.00	6320	171.00	1637	260.00	574	360.00	99
85.00	4436	172.00	2843	261.00	650	361.00	75
86.00	7089	173.00	3893	262.00	65	364.00	173
87.00	3104	174.00	7602	264.00	266	365.00	20440
88.00	1291	175.00	14468	264.00	772	366.00	3205
89.00	851	176.00	4405	265.00	8368	367.00	227
90.00	112	177.00	6050	266.00	1174	370.00	424
91.00	4640	178.00	2375	267.00	99	371.00	1431
92.00	6231	179.00	24704	270.00	566	372.00	7919
93.00	37784	180.00	18016	271.00	796	373.00	1992
94.00	2319	181.00	8649	272.00	1337	374.00	234
95.00	867	182.00	1450	273.00	11855	377.00	172
96.00	1788	183.00	712	274.00	29016	383.00	2276
97.00	306	184.00	2152	275.00	170560	384.00	596
98.00	27456	185.00	12238	276.00	22352	385.00	134
99.00	25704	186.00	97128	277.00	13495	388.00	53
100.00	1778	187.00	26048	278.00	2335	390.00	941
101.00	14450	188.00	3165	279.00	671	391.00	801
102.00	574	189.00	5713	281.00	28	392.00	654
103.00	4594	190.00	1111	282.00	332	397.00	134
104.00	9767	191.00	2676	283.00	1701	401.00	337
105.00	8466	192.00	8101	284.00	1118	402.00	3269
106.00	695	193.00	8968	285.00	2693	403.00	4243
107.00	113040	194.00	1819	286.00	477	404.00	1720
108.00	18760	195.00	1274	287.00	58	405.00	235
110.00	222912	196.00	23616	288.00	216	410.00	83

Report Date: 27-Jul-2023 16:36:27 Chrom Revision: 2.3 19-Jul-2023 18:28:48
Data File: \\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\DFTPP.D\LVI AG2 8270.rslt\spectra.d
Injection Date: 27-Jul-2023 08:41:30
Spectrum: Tune Spec :Average 1215-1217(10.73-10.75) Bgrd 1212(10.72)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 338

m/z	Y	m/z	Y	m/z	Y	m/z	Y
111.00	31856	198.00	740736	289.00	539	415.00	148
112.00	4356	199.00	50808	290.00	470	420.00	50
113.00	1235	200.00	3550	291.00	512	421.00	3342
114.00	398	202.00	3659	292.00	725	422.00	3434
115.00	25	203.00	4552	293.00	3382	423.00	26648
116.00	6249	204.00	23728	294.00	736	424.00	5940
117.00	74016	205.00	41432	295.00	351	425.00	636
118.00	5972	206.00	173824	296.00	42160	435.00	51
119.00	359	207.00	22640	297.00	5887	436.00	120
120.00	1314	208.00	5285	298.00	455	438.00	185
121.00	26	209.00	1538	299.00	212	440.00	111
122.00	7865	210.00	2929	301.00	501	441.00	74136
123.00	10542	211.00	7177	302.00	807	442.00	508288
124.00	4834	212.00	379	303.00	5543	443.00	96360
125.00	4391	213.00	553	304.00	1450	444.00	8198
127.00	449344	214.00	266	305.00	185	445.00	528
128.00	35112	215.00	1719	307.00	55		
129.00	156288	216.00	3477	308.00	659		

Report Date: 27-Jul-2023 16:36:27 Chrom Revision: 2.3 19-Jul-2023 18:28:48

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\DFTPP.D

Injection Date: 27-Jul-2023 08:41:30 Instrument ID: A4AG2 Operator ID:

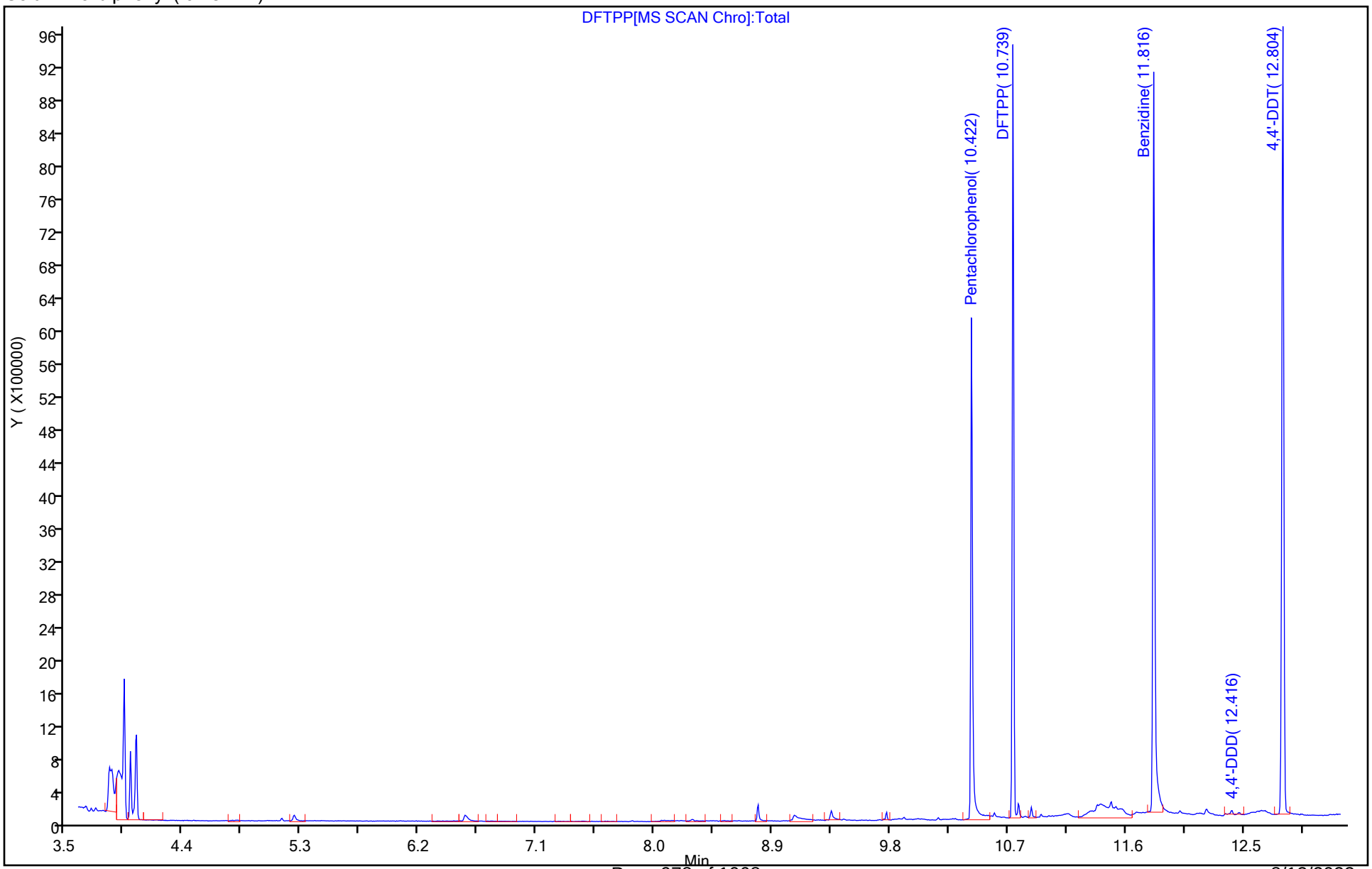
Lims ID: dftpp Worklist Smp#: 1

Client ID:

Injection Vol: 5.0 ul Dil. Factor: 1.0000 ALS Bottle#: 1

Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL

Column: 5% phenyl (0.18 mm)



8/12/2023
10:47 AM

Breakdown Report

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\DFTPP.D
Injection Date: 27-Jul-2023 08:41:30 Instrument ID: A4AG2
Lims ID: dftpp
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL

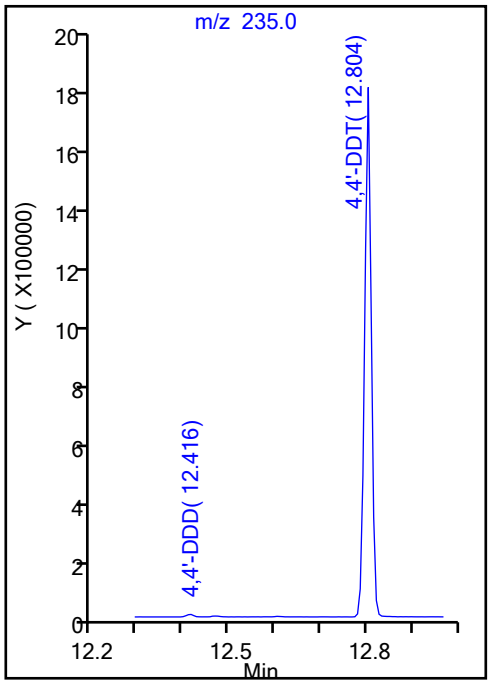
171 4,4'-DDT, Detector: MS SCAN

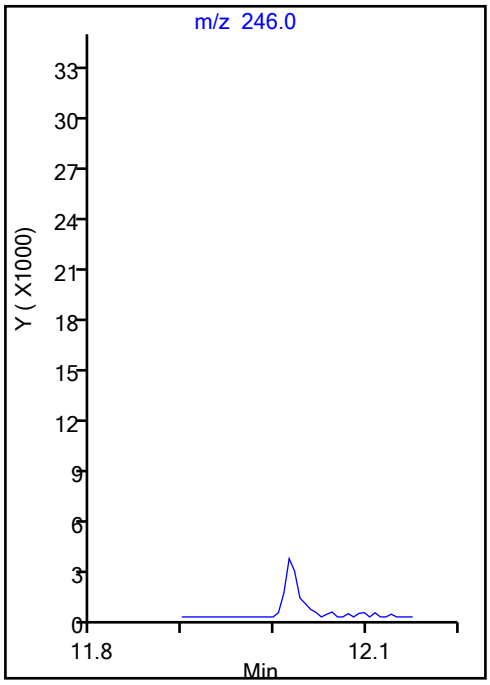
SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

171 4,4'-DDT, Area = 1760037
166 4,4'-DDD, Area = 9269
167 4,4'-DDE, Area = 3650

%Breakdown: 0.73%, <= 20.00%
Passed





Peak Tailing Report

Eurofins Cleveland

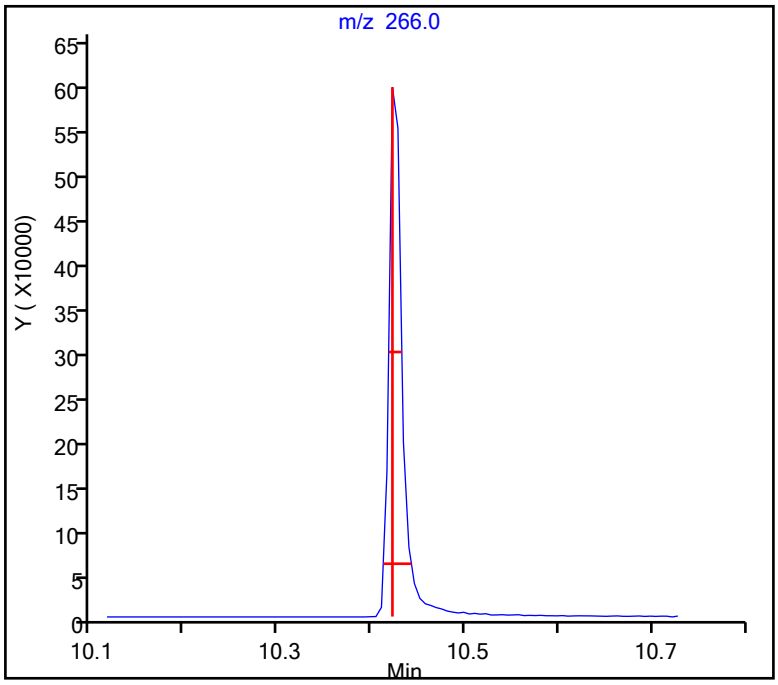
Data File: \\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\DFTPP.D
Injection Date: 27-Jul-2023 08:41:30 Instrument ID: A4AG2
Lims ID: dftpp
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL

143 Pentachlorophenol, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.020 (min.)
Front Width = 0.010 (min.)

Tailing Factor = 2.00, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Cleveland

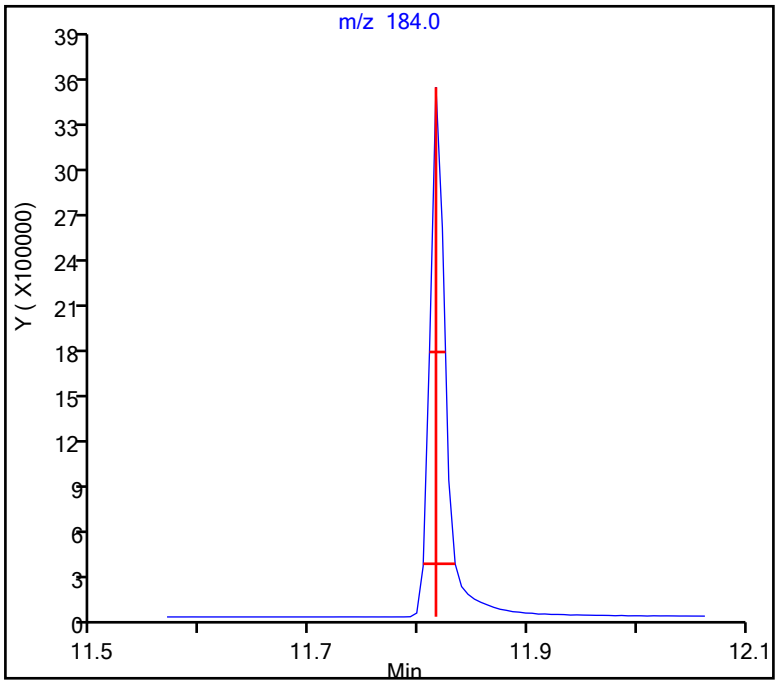
Data File: \\chromfs\Canton\ChromData\A4AG2\20230727-131856.b\DFTPP.D
Injection Date: 27-Jul-2023 08:41:30 Instrument ID: A4AG2
Lims ID: dftpp
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL

160 Benzidine, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.018 (min.)
Front Width = 0.012 (min.)

Tailing Factor = 1.50, Max. Tailing <= 2.00
Passed



Eurofins Cleveland
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\DFTPP.D
Lims ID: dftpp
Client ID:
Sample Type: DFTPP
Inject. Date: 09-Aug-2023 07:19:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 240-0132248-001
Misc. Info.: DFTPP
Operator ID: Instrument ID: A4AG2

Method: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\LVI AG2 8270.m
Limit Group: MSS 8270D ICAL
Last Update: 10-Aug-2023 12:37:18 Calib Date: 08-Aug-2023 12:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A4AG2\20230808-132200.b\10.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: KDZ4 Date: 09-Aug-2023 07:41:03

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
143 Pentachlorophenol	266	10.388	10.388	0.000	91	567618	NR	NR	
160 Benzidine	184	11.777	11.777	0.000	100	3132803	NR	NR	
151 DFTPP									
167 4,4'-DDE	246	11.977	11.977	0.000	4	799		NR	
166 4,4'-DDD	235	12.365	12.365	0.000	88	5263		NR	
171 4,4'-DDT	235	12.753	12.753	0.000	97	1655440	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

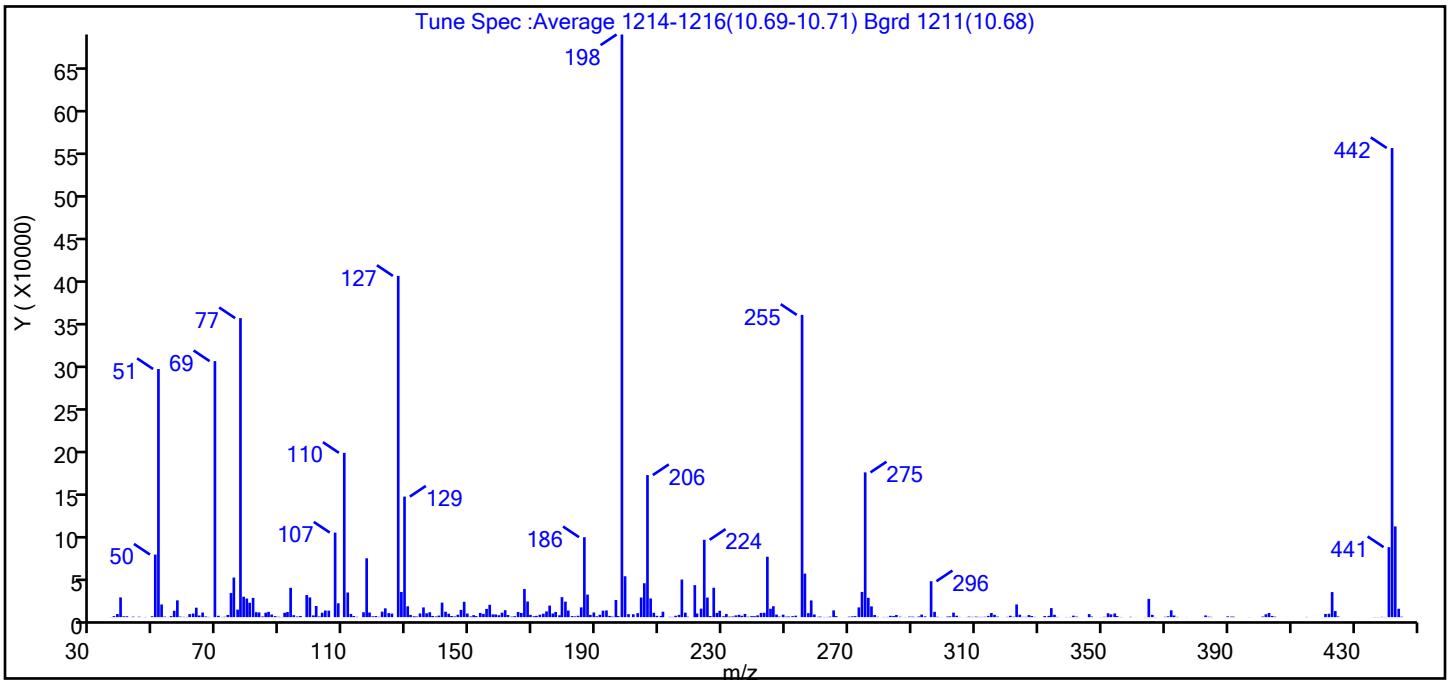
SMDFTPPW_00025 Amount Added: 0.10 Units: mL

MS Tune Report

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\DFTPP.D
Injection Date: 09-Aug-2023 07:19:30 Instrument ID: A4AG2
Lims ID: dftpp
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL
Tune Method: DFTPP Method CLP OLM4.2

151 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base peak, 100 percent relative abundance	100
51	30.0 - 80.0 percent of mass 198	42.6
68	Less than 2.0 percent of mass 69	0.0 (0.0)
69	Present	43.9
70	Less than 2.0 percent of mass 69	0.2 (0.5)
127	25.0 - 75.0 percent of mass 198	58.6
197	Less than 1.0 percent of mass 198	0.2
199	5.0 - 9.0 percent of mass 198	7.0
275	10.0 - 30.0 percent of mass 198	24.8
365	Greater than 0.75 percent of mass 198	3.1
441	Present but less than mass 443	12.0 (77.2)
442	40.0 - 110.0 percent of mass 198	80.5
443	15.0 - 24.0 percent of mass 442	15.6 (19.3)

Data File: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\DFTPP.D\LVI AG2 8270.rslt\spectra.d
Injection Date: 09-Aug-2023 07:19:30
Spectrum: Tune Spec :Average 1214-1216(10.69-10.71) Bgrd 1211(10.68)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 340

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	113	129.00	142656	216.00	2687	308.00	618
37.00	1216	130.00	12813	217.00	44464	309.00	354
38.00	3654	131.00	2624	218.00	5303	310.00	642
39.00	23320	132.00	1003	219.00	551	311.00	333
40.00	1030	133.00	754	221.00	37880	312.00	304
41.00	1060	134.00	4379	222.00	4310	313.00	444
42.00	64	135.00	11528	223.00	10107	314.00	1533
43.00	591	136.00	4556	224.00	91520	315.00	4892
45.00	532	137.00	5805	225.00	23192	316.00	2799
46.00	69	138.00	1419	226.00	1285	317.00	695
47.00	213	139.00	840	227.00	34816	320.00	325
49.00	1042	140.00	1839	228.00	4990	321.00	1640
50.00	74040	141.00	17176	229.00	7549	322.00	461
51.00	293632	142.00	6423	230.00	1057	323.00	15030
52.00	15007	143.00	4047	231.00	3654	324.00	2835
53.00	673	144.00	1378	232.00	681	325.00	328
54.00	121	145.00	835	233.00	825	326.00	343
55.00	1230	146.00	2813	234.00	2056	327.00	2458
56.00	7575	147.00	8595	235.00	2725	328.00	1322
57.00	19864	148.00	18184	236.00	1622	329.00	307
58.00	632	149.00	4285	237.00	3824	332.00	1295
59.00	358	150.00	833	238.00	563	333.00	1490
60.00	251	151.00	2347	239.00	1185	334.00	10698
61.00	3586	152.00	1247	240.00	1169	335.00	2760
62.00	4290	153.00	5061	241.00	2108	336.00	297
63.00	11188	154.00	3845	242.00	4997	339.00	210
64.00	1941	155.00	9749	243.00	5155	340.00	257
65.00	5458	156.00	14617	244.00	71496	341.00	1742
66.00	811	157.00	3230	245.00	9893	342.00	647
67.00	306	158.00	3197	246.00	12924	343.00	116
69.00	302976	159.00	2273	247.00	3018	346.00	3582
70.00	1601	160.00	5274	248.00	663	347.00	724
71.00	238	161.00	8240	249.00	2932	348.00	77

Report Date: 10-Aug-2023 12:37:18 Chrom Revision: 2.3 03-Aug-2023 16:11:04
Data File: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\DFTPP.D\LVI AG2 8270.rslt\spectra.d
Injection Date: 09-Aug-2023 07:19:30
Spectrum: Tune Spec :Average 1214-1216(10.69-10.71) Bgrd 1211(10.68)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 340

m/z	Y	m/z	Y	m/z	Y	m/z	Y
72.00	445	162.00	2506	250.00	584	350.00	110
73.00	2549	163.00	595	251.00	772	351.00	394
74.00	28536	164.00	1134	252.00	1135	352.00	4612
75.00	46856	165.00	6070	253.00	1739	353.00	3267
76.00	8900	166.00	4896	255.00	357696	354.00	4386
77.00	353856	167.00	33280	256.00	51520	355.00	1185
78.00	24176	168.00	18536	257.00	4735	356.00	221
79.00	22016	169.00	2658	258.00	19784	357.00	56
80.00	17056	170.00	1039	259.00	3113	359.00	392
81.00	22824	171.00	1566	260.00	430	361.00	73
82.00	5818	172.00	2896	261.00	606	364.00	214
83.00	5554	173.00	4017	262.00	234	365.00	21632
84.00	827	174.00	6818	263.00	230	366.00	2727
85.00	5268	175.00	13676	264.00	605	367.00	198
86.00	6303	176.00	4326	265.00	8018	370.00	417
87.00	3082	177.00	6176	266.00	1220	371.00	1041
88.00	1250	178.00	2214	267.00	112	372.00	8075
89.00	443	179.00	23664	269.00	62	373.00	1946
90.00	163	180.00	18328	270.00	563	374.00	305
91.00	5193	181.00	7798	271.00	893	377.00	79
92.00	6026	182.00	1246	272.00	1189	382.00	75
93.00	34712	183.00	873	273.00	11569	383.00	2009
94.00	2299	184.00	1629	274.00	29856	384.00	581
95.00	759	185.00	11586	275.00	171328	385.00	323
96.00	1402	186.00	94624	276.00	22856	389.00	64
98.00	26152	187.00	26688	277.00	12741	390.00	962
99.00	23344	188.00	2675	278.00	2512	391.00	661
100.00	2028	189.00	5504	279.00	450	392.00	520
101.00	13201	190.00	981	281.00	233	397.00	119
102.00	778	191.00	2794	282.00	273	401.00	692
103.00	5256	192.00	7648	283.00	1589	402.00	3371
104.00	7832	193.00	7978	284.00	1300	403.00	4908
105.00	7665	194.00	1494	285.00	2528	404.00	1431
107.00	100056	195.00	680	286.00	532	405.00	563

Report Date: 10-Aug-2023 12:37:18 Chrom Revision: 2.3 03-Aug-2023 16:11:04
Data File: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\DFTPP.D\LVI AG2 8270.rslt\spectra.d
Injection Date: 09-Aug-2023 07:19:30
Spectrum: Tune Spec :Average 1214-1216(10.69-10.71) Bgrd 1211(10.68)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 340

m/z	Y	m/z	Y	m/z	Y	m/z	Y
108.00	16424	196.00	20288	287.00	59	409.00	65
110.00	194432	197.00	1303	288.00	185	415.00	249
111.00	29160	198.00	689536	289.00	643	421.00	3803
112.00	3803	199.00	48384	290.00	611	422.00	4014
113.00	1311	200.00	3553	291.00	220	423.00	29680
114.00	421	202.00	3452	292.00	833	424.00	7208
116.00	5781	203.00	4758	293.00	3005	425.00	808
117.00	69664	204.00	23280	294.00	961	426.00	65
118.00	5439	205.00	40128	296.00	42504	436.00	117
119.00	951	206.00	168128	297.00	6293	437.00	122
120.00	1309	207.00	22064	298.00	489	438.00	175
121.00	440	208.00	5166	299.00	159	439.00	338
122.00	6537	209.00	1555	301.00	691	440.00	194
123.00	10400	210.00	1475	302.00	892	441.00	82856
124.00	4815	211.00	6423	303.00	5302	442.00	555136
125.00	4172	213.00	395	304.00	1660	443.00	107368
127.00	403840	214.00	282	305.00	247	444.00	9909
128.00	29824	215.00	1595	307.00	132	445.00	538

Report Date: 10-Aug-2023 12:37:18 Chrom Revision: 2.3 03-Aug-2023 16:11:04

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\DFTPP.D

Injection Date: 09-Aug-2023 07:19:30 Instrument ID: A4AG2 Operator ID:

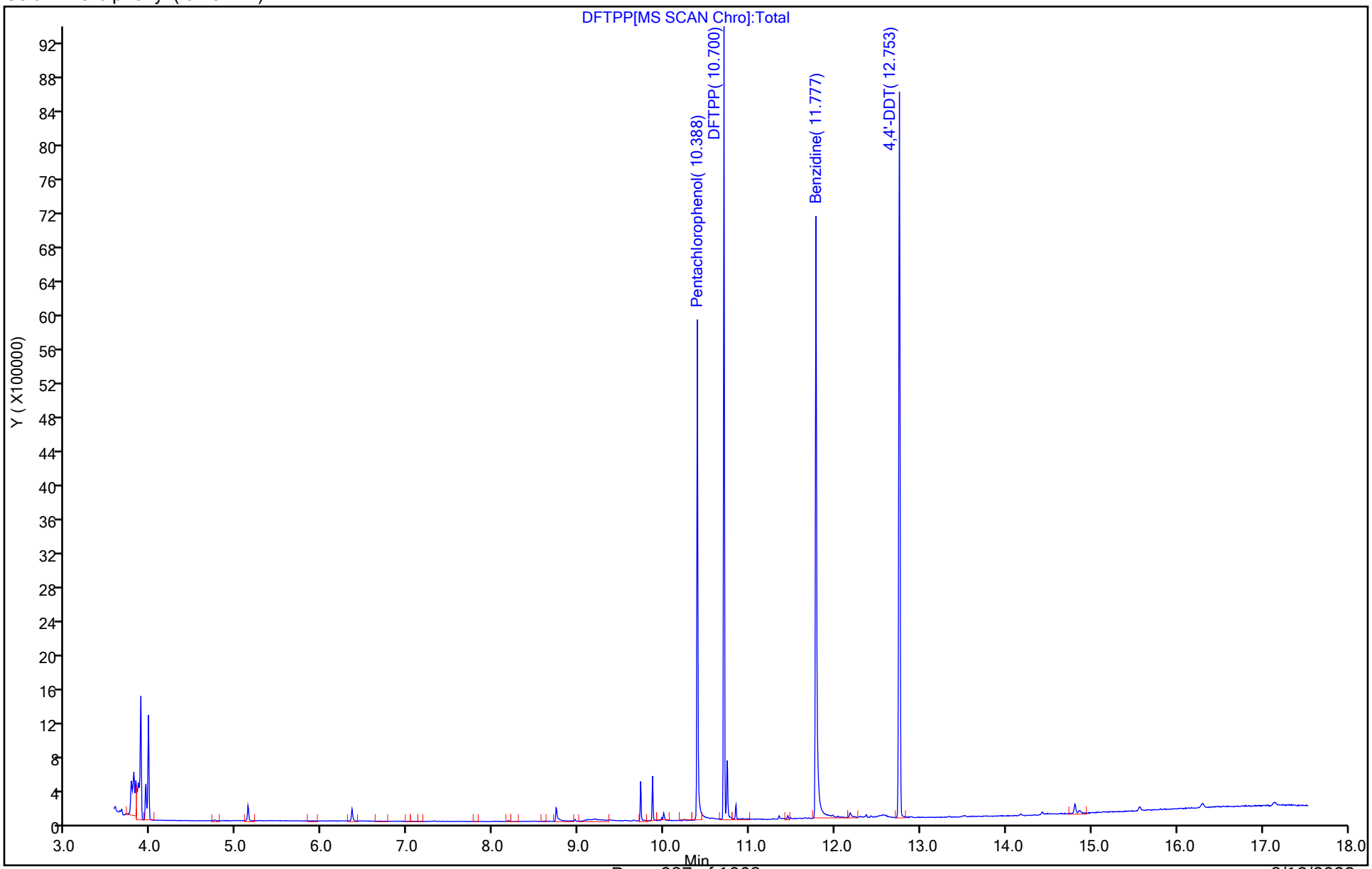
Lims ID: dftpp Worklist Smp#: 1

Client ID:

Injection Vol: 5.0 ul Dil. Factor: 1.0000 ALS Bottle#: 1

Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL

Column: 5% phenyl (0.18 mm)



8/12/2023
10:47 AM

Breakdown Report

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\DFTPP.D
Injection Date: 09-Aug-2023 07:19:30 Instrument ID: A4AG2
Lims ID: dftpp
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL

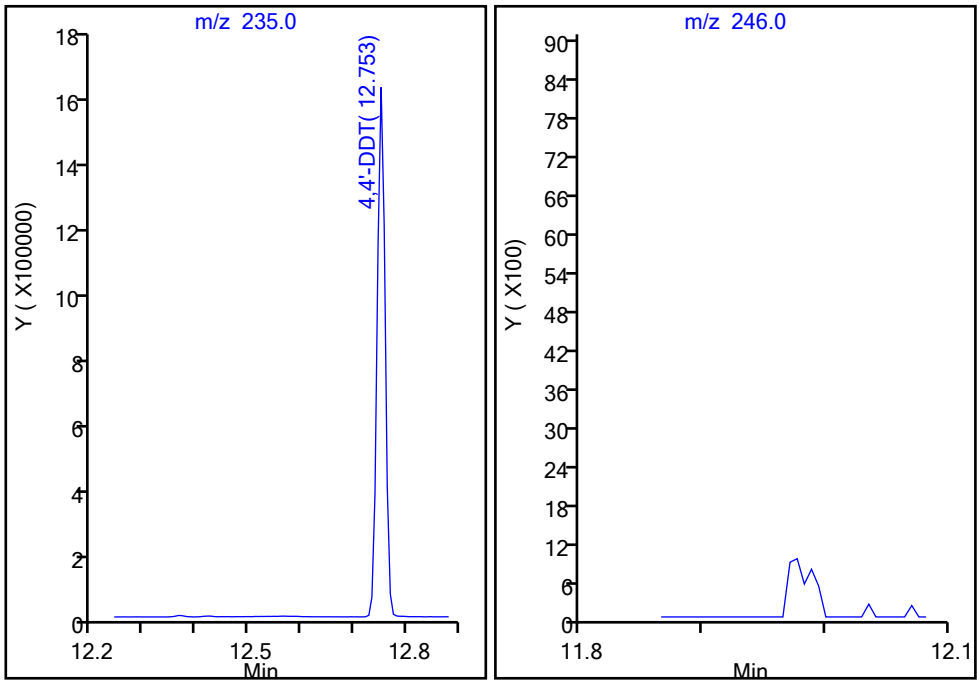
171 4,4'-DDT, Detector: MS SCAN

SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

171 4,4'-DDT, Area = 1655440
166 4,4'-DDD, Area = 5263
167 4,4'-DDE, Area = 799

%Breakdown: 0.36%, <= 20.00%
Passed



Peak Tailing Report

Eurofins Cleveland

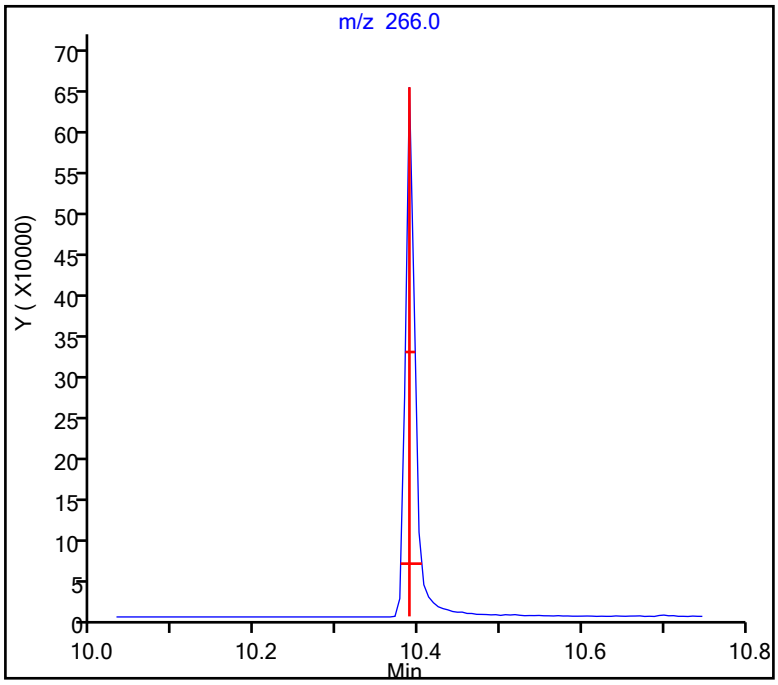
Data File: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\DFTPP.D
Injection Date: 09-Aug-2023 07:19:30 Instrument ID: A4AG2
Lims ID: dftpp
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL

143 Pentachlorophenol, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.015 (min.)
Front Width = 0.011 (min.)

Tailing Factor = 1.36, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Cleveland

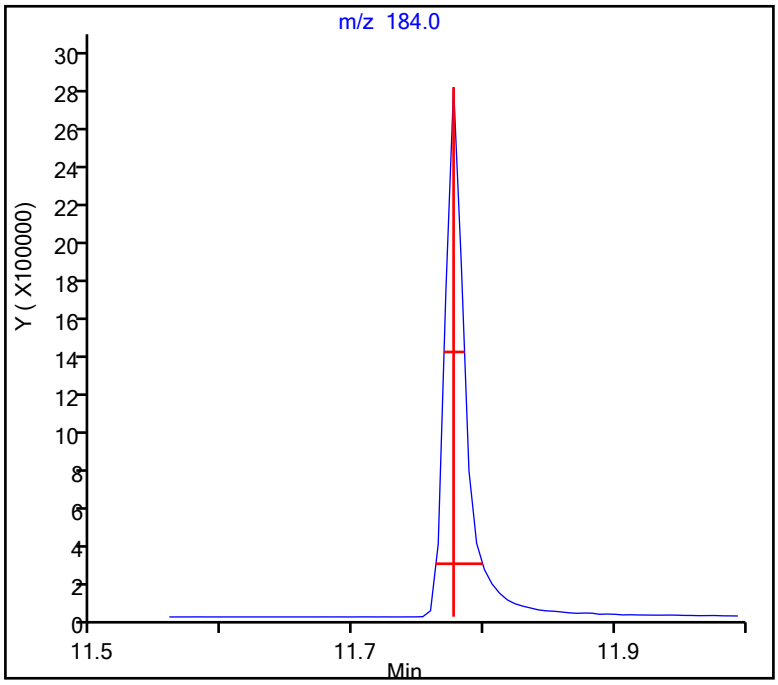
Data File: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\DFTPP.D
Injection Date: 09-Aug-2023 07:19:30 Instrument ID: A4AG2
Lims ID: dftpp
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL

160 Benzidine, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.022 (min.)
Front Width = 0.014 (min.)

Tailing Factor = 1.57, Max. Tailing <= 2.00
Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 240-189273-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-582476/10-A

Matrix: Water | Lab File ID: 7.D

Analysis Method: 8270E | Date Collected:

Extract. Method: 3510C LVI | Date Extracted: 08/01/2023 08:59

Sample wt/vol: 250(mL) | Date Analyzed: 08/09/2023 09:49

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | GC Column: RXI-5SILMS/IIG ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 583312 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
99-35-4	1,3,5-Trinitrobenzene	10	U	10	3.0
130-15-4	1,4-Naphthoquinone	10	U	10	3.0
134-32-7	1-Naphthylamine	10	U	10	3.0
105-67-9	2,4-Dimethylphenol	10	U	10	3.0
51-28-5	2,4-Dinitrophenol	10	U	10	6.2
53-96-3	2-Acetylaminofluorene	10	U	10	3.0
91-59-8	2-Naphthylamine	10	U	10	7.0
109-06-8	2-Picoline	10	U	10	1.0
91-94-1	3,3'-Dichlorobenzidine	10	U	10	3.0
119-93-7	3,3'-Dimethylbenzidine	10	U	10	3.3
56-49-5	3-Methylcholanthrene	10	U	10	1.0
99-09-2	3-Nitroaniline	10	U	10	2.0
534-52-1	4,6-Dinitro-2-methylphenol	10	U	10	3.0
92-67-1	4-Aminobiphenyl	10	U	10	3.0
106-47-8	4-Chloroaniline	10	U	10	3.3
100-01-6	4-Nitroaniline	10	U	10	1.5
56-57-5	4-Nitroquinoline-1-oxide	50	U	50	5.0
57-97-6	7,12-Dimethylbenz(a)anthracene	10	U	10	1.8
98-86-2	Acetophenone	10	U	10	1.0
62-53-3	Aniline	10	U	10	1.1
140-57-8	Aramite, Total	10	U	10	3.7
100-51-6	Benzyl alcohol	10	U	10	3.0
111-91-1	Bis(2-chloroethoxy)methane	1.0	U	1.0	0.50
111-44-4	Bis(2-chloroethyl)ether	1.0	U	1.0	0.50
85-68-7	Butyl benzyl phthalate	10	U	10	0.70
510-15-6	Chlorobenzilate	10	U	10	3.0
84-74-2	Di-n-butyl phthalate	10	U	10	1.8
298-04-4	Disulfoton	10	U	10	3.0
56-38-2	Ethyl Parathion	10	U	10	3.0
52-85-7	Famphur	10	U	10	5.0
77-47-4	Hexachlorocyclopentadiene	10	U	10	3.0
67-72-1	Hexachloroethane	10	U	10	0.40

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 240-189273-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-582476/10-A

Matrix: Water | Lab File ID: 7.D

Analysis Method: 8270E | Date Collected:

Extract. Method: 3510C LVI | Date Extracted: 08/01/2023 08:59

Sample wt/vol: 250(mL) | Date Analyzed: 08/09/2023 09:49

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | GC Column: RXI-5SILMS/IIG ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 583312 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
78-59-1	Isophorone	10	U	10	0.50
91-80-5	Methapyrilene	10	U	10	3.0
66-27-3	Methyl methanesulfonate	10	U	10	1.0
298-00-0	Methyl parathion	10	U	10	3.2
924-16-3	N-Nitrosodi-n-butylamine	10	U	10	3.0
621-64-7	N-Nitrosodi-n-propylamine	10	U	10	0.50
86-30-6	N-Nitrosodiphenylamine	10	U	10	0.58
10595-95-6	N-Nitrosomethylethylamine	10	U	10	1.0
930-55-2	N-Nitrosopyrrolidine	10	U	10	0.50
60-11-7	p-Dimethylamino azobenzene	10	U	10	3.0
106-50-3	p-Phenylene diamine	150	U	150	26
110-86-1	Pyridine	10	U	10	2.0
99-55-8	N-Nitro-o-toluidine	5.0	U	5.0	1.1
95-53-4	o-Toluidine	10	U	10	4.0
100-02-7	4-Nitrophenol	10	U	10	3.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14 (Surr)	109		31-140
4165-62-2	Phenol-d5 (Surr)	75		18-120
4165-60-0	Nitrobenzene-d5 (Surr)	87		13-120
367-12-4	2-Fluorophenol (Surr)	106		12-120
321-60-8	2-Fluorobiphenyl (Surr)	104		23-120
118-79-6	2,4,6-Tribromophenol (Surr)	70		10-126

Eurofins Cleveland
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\7.D
Lims ID: MB 240-582476/10-A
Client ID:
Sample Type: MB
Inject. Date: 09-Aug-2023 09:49:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 240-0132248-007
Misc. Info.: MB 240-582476/10-A
Operator ID: Instrument ID: A4AG2

Method: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\LVI AG2 8270.m
Limit Group: MSS 8270D ICAL
Last Update: 10-Aug-2023 12:37:20 Calib Date: 08-Aug-2023 12:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A4AG2\20230808-132200.b\10.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: KDZ4 Date: 09-Aug-2023 10:54:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.712	6.712	0.000	95	243766	400.0	400.0	
* 2 Naphthalene-d8	136	7.777	7.777	0.000	99	1108867	400.0	400.0	
* 3 Acenaphthene-d10	164	9.277	9.277	0.000	93	473220	400.0	400.0	
* 4 Phenanthrene-d10	188	10.565	10.565	0.000	97	890413	400.0	400.0	
* 5 Chrysene-d12	240	13.488	13.494	-0.006	98	629728	400.0	400.0	
* 6 Perylene-d12	264	15.853	15.865	-0.012	96	702136	400.0	400.0	
$ 7 2-Fluorophenol	112	5.653	5.653	0.000	90	814605	1600.0	1699.0	
$ 8 Phenol-d5	99	6.371	6.371	0.000	0	1087055	1600.0	1198.4	
$ 9 Nitrobenzene-d5	82	7.159	7.159	0.000	87	1346081	1600.0	1393.0	
$ 10 2-Fluorobiphenyl (Surr)	172	8.665	8.665	0.000	100	2652905	1600.0	1670.4	
$ 11 2,4,6-Tribromophenol	330	9.959	9.953	0.006	92	171133	1600.0	1121.6	
$ 12 Terphenyl-d14	244	12.047	12.047	0.000	97	3152894	1600.0	1741.0	
26 1,4-Dioxane	88		4.224					ND	
27 N-Nitrosodimethylamine	74		4.489					ND	
28 Pyridine	79		4.548					ND	
22 Dimethylformamide	73		4.853					ND	U
29 Ethyl methacrylate	69		4.918					ND	
31 2-Picoline	93		5.183					ND	
32 N-Nitrosomethylethylamine	88		5.254					ND	
34 Methyl methanesulfonate	80		5.483					ND	
334 2-Butoxyethanol	57	5.600	5.569	0.031	40	383		NC	
233 n,n'-Dimethylacetamide	44		5.571					ND	U
36 N-Nitrosodiethylamine	102		5.818					ND	
37 Ethyl methanesulfonate	79		6.036					ND	
42 Benzaldehyde	77		6.347					ND	U
43 Phenol	94		6.383					ND	
44 Aniline	93		6.430					ND	
45 Bis(2-chloroethyl)ether	93		6.453					ND	
46 Pentachloroethane	167		6.489					ND	
41 Phenylmercaptan	110		6.526					ND	
244 n-Decane	57		6.536					ND	U

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
47 2-Chlorophenol	128		6.547				ND		
48 1,3-Dichlorobenzene	146		6.671				ND		U
49 1,4-Dichlorobenzene	146		6.724				ND		U
333 2-Butoxyethyl acetate	57	6.765	6.775	-0.010	0	291		NC	
50 Benzyl alcohol	108		6.794				ND		
232 1-Methyl-2-pyrrilidinone	99		6.806				ND		U
51 1,2-Dichlorobenzene	146		6.859				ND		U
52 2-Methylphenol	108		6.877				ND		
54 2,2'-oxybis[1-chloropropane]	45		6.894				ND		
53 Indene	115		6.930				ND		
55 3 & 4 Methylphenol	108		6.994				ND		
56 N-Nitrosopyrrolidine	100		6.995				ND		
57 N-Nitrosodi-n-propylamine	70		7.000				ND		
58 Acetophenone	105		7.018				ND		U
59 N-Nitrosomorpholine	56		7.018				ND		
60 2-Toluidine	106		7.053				ND		
61 Hexachloroethane	117		7.147				ND		
62 Nitrobenzene	77		7.171				ND		
63 N-Nitrosopiperidine	114		7.289				ND		
64 Isophorone	82		7.359				ND		
255 2-Chloroaniline	127		7.418				ND		
65 2-Nitrophenol	139		7.441				ND		
66 2,4-Dimethylphenol	107		7.441				ND		
67 1,3,5-Trichlorobenzene	180		7.465				ND		
68 o,o',o''-Triethylphosphorothioat	198		7.477				ND		
70 Benzoic acid	122		7.494				ND		
69 Bis(2-chloroethoxy)methane	93		7.506				ND		
71 alpha,alpha-Dimethyl phenethylam	58		7.612				ND		
72 2,4-Dichlorophenol	162		7.647				ND		
73 1,2,4-Trichlorobenzene	180	7.718	7.718	0.000	93	4017		5.24	
308 3 & 4 Chlorophenol	128		7.718				ND		U
74 Naphthalene	128		7.794				ND		U
75 4-Chloroaniline	127		7.818				ND		
76 2,6-Dichlorophenol	162		7.830				ND		
77 Hexachloropropene	213		7.871				ND		
78 Hexachlorobutadiene	225		7.883				ND		
80 Benzothiazole	135		8.018				ND		
82 N-Nitrosodi-n-butylamine	84		8.065				ND		
81 Quinoline	129		8.071				ND		
83 Caprolactam	113		8.094				ND		U
84 p-Phenylene diamine	108		8.106				ND		
85 4-Chloro-3-methylphenol	107		8.206				ND		
252 4-tert-Butylphenol	135		8.230				ND		
92 Safrole, Total	162		8.271				ND		
86 2-Methylnaphthalene	142	8.377	8.371	0.006	93	10479		5.30	
87 1-Methylnaphthalene	142		8.459				ND		U
89 Hexachlorocyclopentadiene	237		8.506				ND		
90 1,2,4,5-Tetrachlorobenzene	216	8.518	8.518	0.000	94	6117		11.5	a
88 1,2,3,5-Tetrachlorobenzene	216		8.518				ND		U
95 Isosafrole Peak 1	162		8.518				ND		
93 2,4,6-Trichlorophenol	196		8.600				ND		
94 2,4,5-Trichlorophenol	196		8.647				ND		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
91 Isosafrole Peak 2	162		8.712					ND	
97 2,4-Toluene diamine	121		8.753					ND	
99 1,1'-Biphenyl	154	8.759	8.759	0.000	94	11425		5.97	
98 1,2,3,4 -Tetrachlorobenzene	216		8.777					ND	U
100 2-Chloronaphthalene	162	8.794	8.794	0.000	96	8413		6.02	
192 Phenyl ether	170		8.847					ND	U
101 2-Nitroaniline	65		8.859					ND	
102 1,4-Naphthoquinone	158		8.930					ND	
105 1,4-Dinitrobenzene	168		8.959					ND	
104 Dimethyl phthalate	163		8.983					ND	
103 1,3-Dinitrobenzene	168		9.024					ND	
106 2,6-Dinitrotoluene	165		9.047					ND	
108 Acenaphthylene	152		9.159					ND	U
109 3-Nitroaniline	138		9.212					ND	
110 2,4-Dinitrophenol	184		9.288					ND	
111 Acenaphthene	153		9.300					ND	U
112 4-Nitrophenol	109		9.330					ND	
260 o-Phenylphenol	170		9.388					ND	U
113 2,4-Dinitrotoluene	165		9.400					ND	
114 Pentachlorobenzene	250		9.424					ND	
115 Dibenzofuran	168		9.447					ND	U
116 2,3,5,6-Tetrachlorophenol	232		9.512					ND	
117 1-Naphthylamine	143		9.512					ND	
118 2,3,4,6-Tetrachlorophenol	232		9.547					ND	
248 Hexadecane	57	9.565	9.559	0.006	77	9929		NC	
120 Diethyl phthalate	149		9.571					ND	
119 2-Naphthylamine	143		9.577					ND	
121 Thionazin	97		9.653					ND	
122 4-Chlorophenyl phenyl ether	204		9.712					ND	U
126 Tributyl phosphate	99	9.724	9.741	-0.011	98	910353		512.8	
123 N-Nitro-o-toluidine	152		9.736					ND	
125 4-Nitroaniline	138		9.741					ND	
124 Fluorene	166		9.741					ND	
127 4,6-Dinitro-2-methylphenol	198		9.753					ND	
128 N-Nitrosodiphenylamine	169		9.806					ND	
129 Diphenylamine	169		9.806					ND	
131 Azobenzene	77		9.847					ND	U
130 1,2-Diphenylhydrazine	77		9.847					ND	7
292 Benzophenone	105		9.871					ND	U
132 Sulfotepp	202		9.900					ND	
133 1,3,5-Trinitrobenzene	213		10.000					ND	
134 Diallate Peak 1	86		10.041					ND	
135 Phenacetin	108		10.047					ND	
136 Phorate	121		10.053					ND	
137 Diallate Peak 2	86		10.124					ND	
138 4-Bromophenyl phenyl ether	248		10.135					ND	U
139 Dimethoate	87		10.206					ND	
274 3 & 4 Phenoxyphenol	186		10.218					ND	
141 Atrazine	200		10.229					ND	
140 Hexachlorobenzene	284		10.235					ND	
245 n-Octadecane	57		10.347					ND	U
142 4-Aminobiphenyl	169		10.365					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
144 Pronamide	173		10.377					ND	
143 Pentachlorophenol	266		10.388					ND	
145 Pentachloronitrobenzene	237		10.406					ND	
146 Disulfoton	88		10.494					ND	U
147 Dinoseb	211		10.506					ND	
148 Phenanthrene	178		10.582					ND	U
149 Anthracene	178		10.629					ND	U
150 Carbazole	167		10.747					ND	
152 Methyl parathion	109		10.836					ND	
154 Di-n-butyl phthalate	149		10.971					ND	U
280 Chlorpyrifos	97		11.118					ND	
155 Ethyl Parathion	97		11.171					ND	
156 4-Nitroquinoline-1-oxide	190		11.259					ND	
157 Methapyrilene	58		11.283					ND	
158 Isodrin	66		11.547					ND	U
159 Fluoranthene	202		11.694					ND	
160 Benzidine	184		11.777					ND	
161 Pyrene	202		11.947					ND	
162 Aramite Peak 1	185		11.965					ND	
163 Aramite Peak 2	185		12.047					ND	
164 p-Dimethylamino azobenzene	225		12.206					ND	
165 Chlorobenzilate	139		12.235					ND	
168 Famphur	218		12.541					ND	
169 Butyl benzyl phthalate	149		12.576					ND	
170 3,3'-Dimethylbenzidine	212		12.618					ND	
172 2-Acetylaminofluorene	181		12.971					ND	
173 3,3'-Dimethoxybenzidine	244		13.323					ND	
174 Bis(2-ethylhexyl) phthalate	149	13.335	13.335	0.000	97	10701		35.1	
175 4,4'-Methylene bis(2-chloroani	231		13.371					ND	
177 3,3'-Dichlorobenzidine	252		13.382					ND	
178 Benzo[a]anthracene	228		13.470					ND	
179 Chrysene	228		13.529					ND	
304 Hexabromobenzene	232		13.559					ND	U
180 6-Methylchrysene	242		14.229					ND	
181 Di-n-octyl phthalate	149		14.353					ND	U
182 7,12-Dimethylbenz(a)anthracene	256		15.176					ND	
183 Benzo[b]fluoranthene	252		15.200					ND	
184 Benzo[k]fluoranthene	252		15.247					ND	
185 Benzo[a]pyrene	252		15.764					ND	
186 3-Methylcholanthrene	268		16.370					ND	
188 Dibenz[a,h]acridine	279		17.447					ND	
187 Dibenz[a,j]acridine	279		17.576					ND	
190 Indeno[1,2,3-cd]pyrene	276		17.982					ND	
189 Dibenz(a,h)anthracene	278		17.988					ND	
191 Benzo[g,h,i]perylene	276		18.617					ND	
300 2-Chloroaniline TIC	1		0.000					ND	
302 3,3'-Dimethoxybenzidine TIC	1		0.000					ND	
309 1,2,4,5-Tetrachlorobenzene TIC	1		0.000					ND	
332 Diundecyl Phthalate TIC	1		0.000					ND	
282 Kepone	272		0.000					ND	
285 Chlorobenzene TIC	1		0.000					ND	
303 Diisobutyl phthalate TIC	1		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
S 194 Isosafrole	162		5.181					ND	7
S 195 Diallate	86		6.385					ND	7
S 196 Aramite, Total	185		7.898					ND	7
S 246 Total Cresols	100		0.000					ND	
S 193 Methyl Phenols,Total	100		0.000					ND	7

QC Flag Legend

Processing Flags
- NC - Not Calibrated
- 7 - Failed Limit of Detection

Review Flags
- U - Marked Undetected
- a - User Assigned ID

Reagents:

SMIS80PPMW_00027 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 10-Aug-2023 12:39:01 Chrom Revision: 2.3 03-Aug-2023 16:11:04

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\7.D

Injection Date: 09-Aug-2023 09:49:30 Instrument ID: A4AG2 Operator ID:

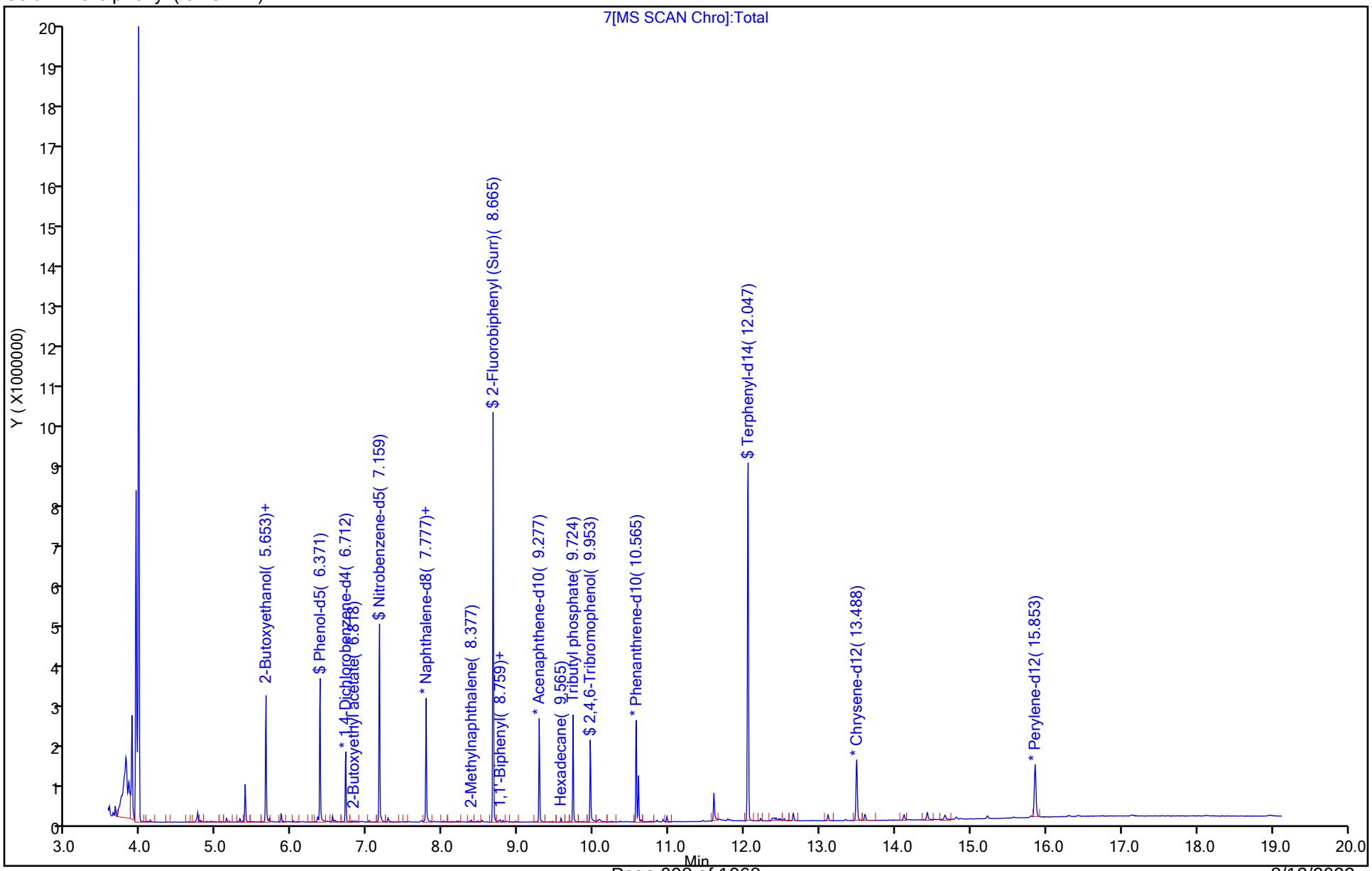
Lims ID: MB 240-582476/10-A Worklist Smp#: 7

Client ID:

Injection Vol: 5.0 ul Dil. Factor: 1.0000 ALS Bottle#: 7

Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL

Column: 5% phenyl (0.18 mm)



8/12/2023
10:47 AM

Eurofins Cleveland
Recovery Report

Data File: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\7.D
Lims ID: MB 240-582476/10-A
Client ID:
Sample Type: MB
Inject. Date: 09-Aug-2023 09:49:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 240-0132248-007
Misc. Info.: MB 240-582476/10-A
Operator ID: Instrument ID: A4AG2

Method: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\LVI AG2 8270.m
Limit Group: MSS 8270D ICAL
Last Update: 10-Aug-2023 12:37:20 Calib Date: 08-Aug-2023 12:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A4AG2\20230808-132200.b\10.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: KDZ4 Date: 09-Aug-2023 10:54:47

Compound	Amount Added	Amount Recovered	% Rec.
$ 7 2-Fluorophenol	1600.0	1699.0	106.19
$ 8 Phenol-d5	1600.0	1198.4	74.90
$ 9 Nitrobenzene-d5	1600.0	1393.0	87.06
$ 10 2-Fluorobiphenyl (Surr)	1600.0	1670.4	104.40
$ 11 2,4,6-Tribromophenol	1600.0	1121.6	70.10
$ 12 Terphenyl-d14	1600.0	1741.0	108.82

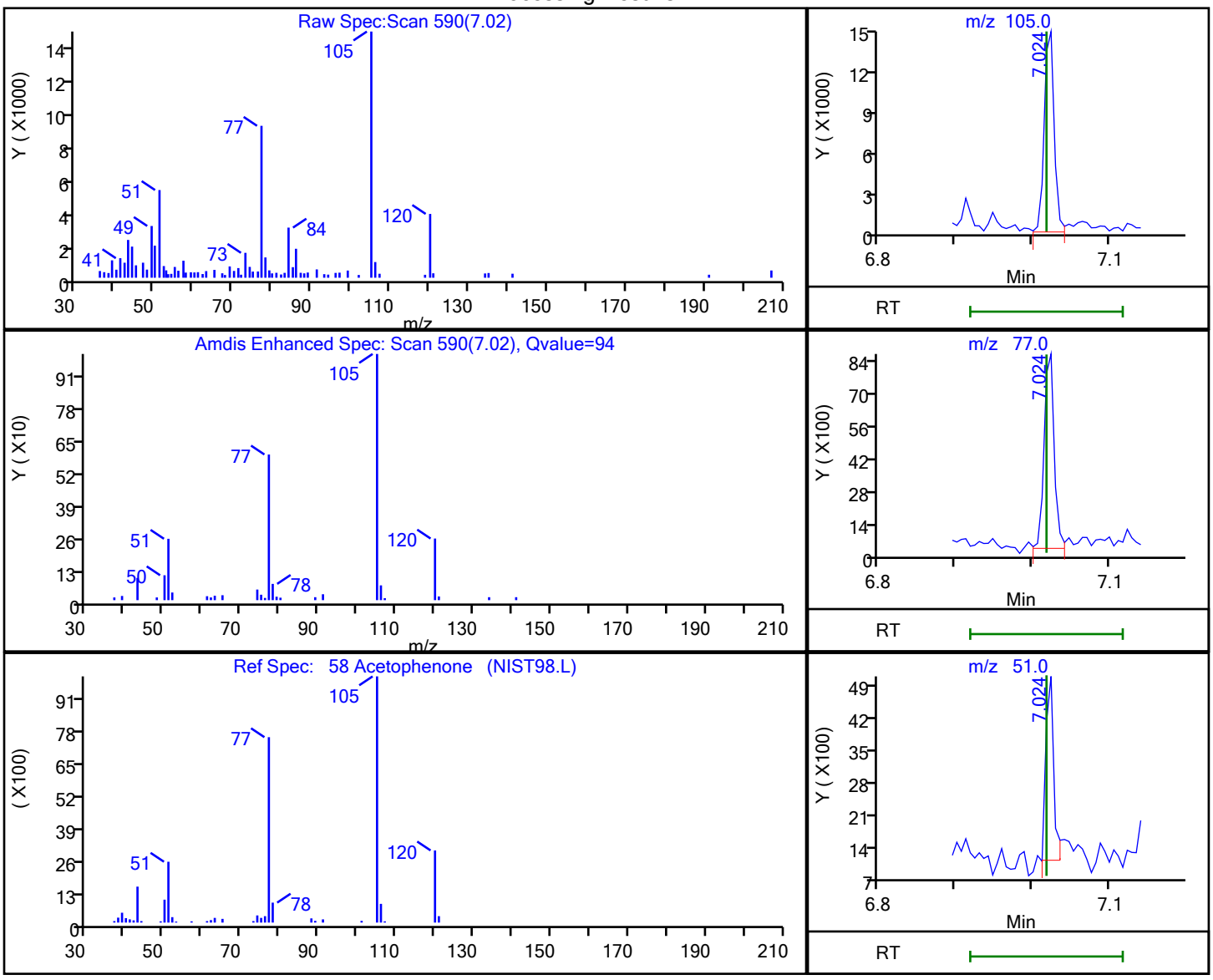
User Disabled Compound Report

Eurofins Cleveland

Data File:	\\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\7.D				
Injection Date:	09-Aug-2023 09:49:30	Instrument ID:	A4AG2		
Lims ID:	MB 240-582476/10-A				
Client ID:					
Operator ID:		ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

58 Acetophenone, CAS: 98-86-2

Processing Results



RT	Mass	Response	Amount
7.02	105.00	12674	9.922101
7.02	77.00	7775	
7.02	51.00	2826	

Reviewer: KDZ4, 09-Aug-2023 10:20:14 -04:00:00 (UTC)

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

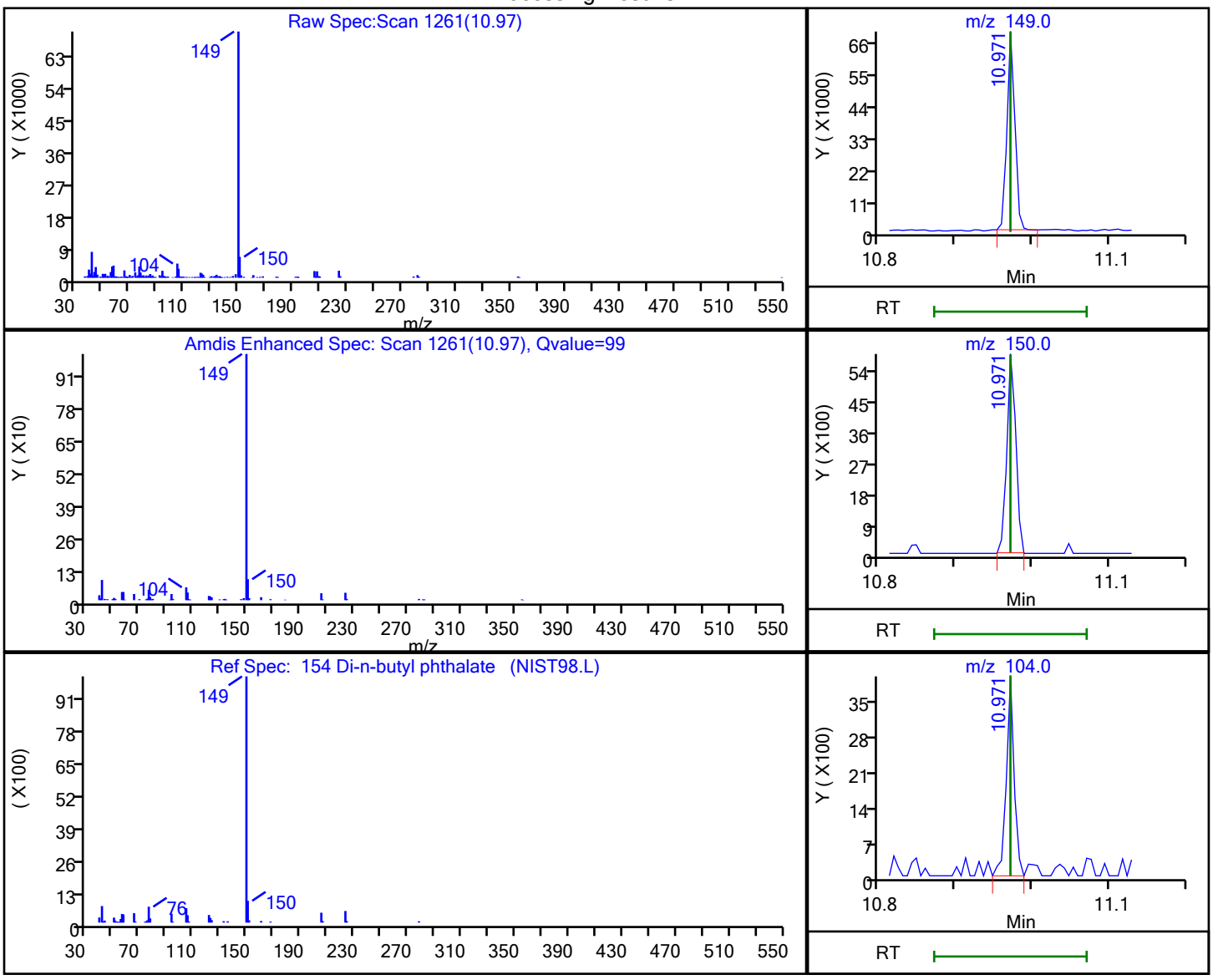
User Disabled Compound Report

Eurofins Cleveland

Data File:	\\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\7.D				
Injection Date:	09-Aug-2023 09:49:30	Instrument ID:	A4AG2		
Lims ID:	MB 240-582476/10-A				
Client ID:					
Operator ID:		ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

154 Di-n-butyl phthalate, CAS: 84-74-2

Processing Results



RT	Mass	Response	Amount
10.97	149.00	50765	16.480897
10.97	150.00	4840	
10.97	104.00	2854	

Reviewer: KDZ4, 09-Aug-2023 10:22:33 -04:00:00 (UTC)

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

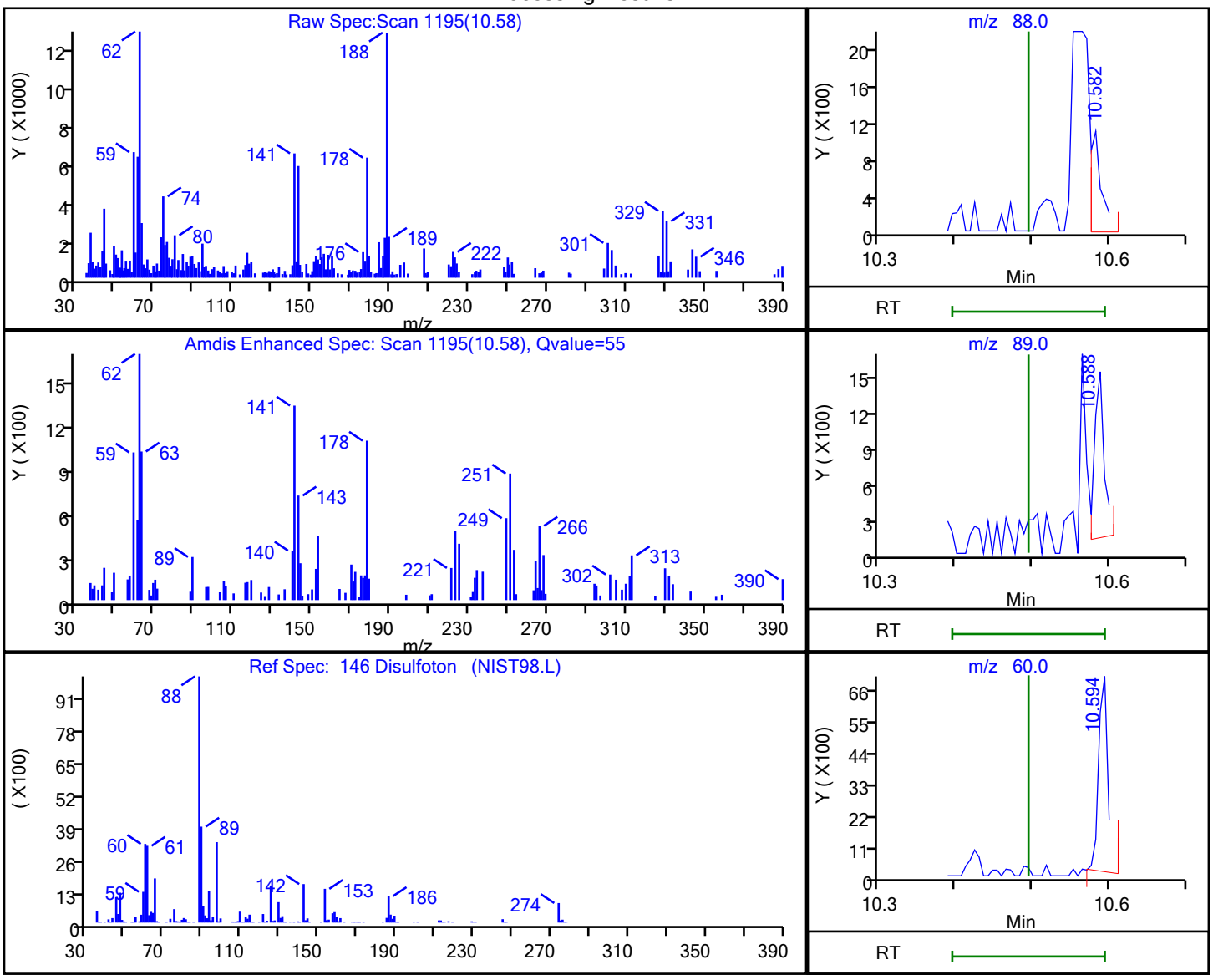
User Disabled Compound Report

Eurofins Cleveland

Data File:	\\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\7.D				
Injection Date:	09-Aug-2023 09:49:30	Instrument ID:	A4AG2		
Lims ID:	MB 240-582476/10-A				
Client ID:					
Operator ID:		ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

146 Disulfoton, CAS: 298-04-4

Processing Results



RT	Mass	Response	Amount
10.58	88.00	1191	1.155922
10.59	89.00	1195	
10.59	60.00	5669	

Reviewer: KDZ4, 09-Aug-2023 10:22:24 -04:00:00 (UTC)

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

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 240-189273-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-582476/11-A

Matrix: Water | Lab File ID: 8.D

Analysis Method: 8270E | Date Collected:

Extract. Method: 3510C LVI | Date Extracted: 08/01/2023 08:59

Sample wt/vol: 250(mL) | Date Analyzed: 08/09/2023 10:19

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | GC Column: RXI-5SILMS/IIG ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 583312 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
105-67-9	2,4-Dimethylphenol	21.7		10	3.0
51-28-5	2,4-Dinitrophenol	54.4		10	6.2
91-94-1	3,3'-Dichlorobenzidine	60.7		10	3.0
99-09-2	3-Nitroaniline	34.9		10	2.0
534-52-1	4,6-Dinitro-2-methylphenol	58.1		10	3.0
106-47-8	4-Chloroaniline	26.1		10	3.3
100-01-6	4-Nitroaniline	37.9		10	1.5
98-86-2	Acetophenone	27.4		10	1.0
62-53-3	Aniline	22.5		10	1.1
100-51-6	Benzyl alcohol	25.6		10	3.0
111-91-1	Bis(2-chloroethoxy)methane	26.0		1.0	0.50
111-44-4	Bis(2-chloroethyl)ether	30.2		1.0	0.50
85-68-7	Butyl benzyl phthalate	25.5		10	0.70
84-74-2	Di-n-butyl phthalate	28.4		10	1.8
77-47-4	Hexachlorocyclopentadiene	18.0		10	3.0
67-72-1	Hexachloroethane	23.3		10	0.40
78-59-1	Isophorone	26.9		10	0.50
621-64-7	N-Nitrosodi-n-propylamine	27.8		10	0.50
86-30-6	N-Nitrosodiphenylamine	26.5		10	0.58
110-86-1	Pyridine	44.8		10	2.0
100-02-7	4-Nitrophenol	37.3		10	3.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14 (Surr)	87		31-140
4165-62-2	Phenol-d5 (Surr)	75		18-120
4165-60-0	Nitrobenzene-d5 (Surr)	89		13-120
367-12-4	2-Fluorophenol (Surr)	140	S1+	12-120
321-60-8	2-Fluorobiphenyl (Surr)	83		23-120
118-79-6	2,4,6-Tribromophenol (Surr)	93		10-126

Eurofins Cleveland
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\8.D
Lims ID: LCS 240-582476/11-A
Client ID:
Sample Type: LCS
Inject. Date: 09-Aug-2023 10:19:30 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 240-0132248-008
Misc. Info.: LCS 240-582476/11-A
Operator ID: Instrument ID: A4AG2

Method: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\LVI AG2 8270.m
Limit Group: MSS 8270D ICAL
Last Update: 10-Aug-2023 12:37:20 Calib Date: 08-Aug-2023 12:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A4AG2\20230808-132200.b\10.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: KDZ4 Date: 09-Aug-2023 10:57:14

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.712	6.712	0.000	95	257897	400.0	400.0	
* 2 Naphthalene-d8	136	7.777	7.777	0.000	99	1194156	400.0	400.0	
* 3 Acenaphthene-d10	164	9.277	9.277	0.000	92	628358	400.0	400.0	
* 4 Phenanthrene-d10	188	10.571	10.565	0.006	97	968490	400.0	400.0	
* 5 Chrysene-d12	240	13.500	13.494	0.006	98	726182	400.0	400.0	
* 6 Perylene-d12	264	15.864	15.865	-0.001	96	791715	400.0	400.0	
$ 7 2-Fluorophenol	112	5.659	5.653	0.006	90	1134535	1600.0	2236.7	
$ 8 Phenol-d5	99	6.371	6.371	0.000	0	1149082	1600.0	1197.3	
$ 9 Nitrobenzene-d5	82	7.159	7.159	0.000	86	1476510	1600.0	1418.9	
$ 10 2-Fluorobiphenyl (Surr)	172	8.665	8.665	0.000	99	2811692	1600.0	1333.3	
$ 11 2,4,6-Tribromophenol	330	9.959	9.953	0.006	93	302378	1600.0	1481.3	
$ 12 Terphenyl-d14	244	12.059	12.047	0.012	97	2893055	1600.0	1385.4	
26 1,4-Dioxane	88	4.247	4.224	0.023	94	160607	1600.0	1052.3	M
27 N-Nitrosodimethylamine	74	4.506	4.489	0.017	95	554443	1600.0	1024.8	
28 Pyridine	79	4.565	4.548	0.017	98	913106	3200.0	2242.2	
42 Benzaldehyde	77	6.353	6.347	0.006	95	637679	1600.0	1315.7	
43 Phenol	94	6.383	6.383	0.000	98	1152153	1600.0	1154.1	
44 Aniline	93	6.436	6.430	0.006	99	1591692	1600.0	1127.5	
45 Bis(2-chloroethyl)ether	93	6.453	6.453	0.000	96	1491041	1600.0	1510.6	
244 n-Decane	57	6.536	6.536	0.000	90	962458	1600.0	1123.8	
47 2-Chlorophenol	128	6.547	6.547	0.000	95	1325265	1600.0	1472.2	
48 1,3-Dichlorobenzene	146	6.671	6.671	0.000	98	1214556	1600.0	1169.6	
49 1,4-Dichlorobenzene	146	6.724	6.724	0.000	97	1262119	1600.0	1180.4	
50 Benzyl alcohol	108	6.794	6.794	0.000	95	770808	1600.0	1277.8	
51 1,2-Dichlorobenzene	146	6.859	6.859	0.000	99	1252099	1600.0	1213.9	
52 2-Methylphenol	108	6.877	6.900	0.000	92	1192035	1600.0	1386.9	
54 2,2'-oxybis[1-chloropropane]	45	6.894	6.894	0.000	93	1616006	1600.0	1272.3	
53 Indene	115	6.930	6.930	0.000	90	4401056	3200.0	2490.7	
55 3 & 4 Methylphenol	108	6.994	7.024	0.000	95	1237871	1600.0	1334.0	
57 N-Nitrosodi-n-propylamine	70	7.000	7.000	0.000	86	910100	1600.0	1390.2	
58 Acetophenone	105	7.018	7.018	0.000	97	1854227	1600.0	1372.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
61 Hexachloroethane	117	7.147	7.147	0.000	97	452070	1600.0	1165.7	
62 Nitrobenzene	77	7.177	7.171	0.006	85	1329337	1600.0	1338.9	
64 Isophorone	82	7.359	7.359	0.000	99	2611539	1600.0	1346.4	
65 2-Nitrophenol	139	7.441	7.441	0.000	87	752852	1600.0	1408.5	
66 2,4-Dimethylphenol	107	7.441	7.441	0.000	84	900209	1600.0	1085.9	
70 Benzoic acid	122	7.465	7.494	-0.029	28	76849	3200.0	407.4	M
69 Bis(2-chloroethoxy)methane	93	7.506	7.506	0.000	99	1548915	1600.0	1298.8	
72 2,4-Dichlorophenol	162	7.641	7.647	-0.006	94	1057594	1600.0	1338.6	
73 1,2,4-Trichlorobenzene	180	7.718	7.718	0.000	95	1061572	1600.0	1286.1	
74 Naphthalene	128	7.794	7.794	0.000	97	4190114	1600.0	1264.7	
75 4-Chloroaniline	127	7.818	7.818	0.000	96	1530578	1600.0	1305.9	
76 2,6-Dichlorophenol	162	7.830	7.830	0.000	98	1069558	1600.0	1313.1	
78 Hexachlorobutadiene	225	7.883	7.883	0.000	99	497252	1600.0	1343.2	
83 Caprolactam	113	8.094	8.094	0.000	83	257914	1600.0	753.6	
85 4-Chloro-3-methylphenol	107	8.200	8.206	-0.006	96	1173648	1600.0	1298.8	
86 2-Methylnaphthalene	142	8.377	8.371	0.006	93	2747604	1600.0	1290.6	
87 1-Methylnaphthalene	142	8.465	8.459	0.006	93	2520719	1600.0	1267.8	
89 Hexachlorocyclopentadiene	237	8.512	8.506	0.006	95	320308	1600.0	898.1	
90 1,2,4,5-Tetrachlorobenzene	216	8.518	8.518	0.000	98	960287	1600.0	1357.5	
93 2,4,6-Trichlorophenol	196	8.606	8.600	0.006	92	705003	1600.0	1366.3	
94 2,4,5-Trichlorophenol	196	8.647	8.647	0.000	94	755576	1600.0	1396.6	
99 1,1'-Biphenyl	154	8.759	8.759	0.000	94	3216965	1600.0	1265.9	
100 2-Chloronaphthalene	162	8.794	8.794	0.000	97	2430209	1600.0	1309.1	
101 2-Nitroaniline	65	8.865	8.859	0.006	90	727926	1600.0	1364.2	
104 Dimethyl phthalate	163	8.982	8.983	0.000	100	2372077	1600.0	1135.0	
103 1,3-Dinitrobenzene	168	9.030	9.024	0.006	90	464110	1600.0	1433.1	
106 2,6-Dinitrotoluene	165	9.047	9.047	0.000	95	675953	1600.0	1527.1	
108 Acenaphthylene	152	9.159	9.159	0.000	98	3900677	1600.0	1278.3	
109 3-Nitroaniline	138	9.212	9.212	0.000	97	620054	1600.0	1745.4	
110 2,4-Dinitrophenol	184	9.294	9.288	0.006	84	525529	3200.0	2720.8	
111 Acenaphthene	153	9.306	9.300	0.006	94	2494385	1600.0	1257.8	
112 4-Nitrophenol	109	9.341	9.330	0.011	85	438187	3200.0	1863.0	
113 2,4-Dinitrotoluene	165	9.400	9.400	0.000	96	864797	1600.0	1388.2	
115 Dibenzofuran	168	9.453	9.447	0.006	97	3457071	1600.0	1374.2	
118 2,3,4,6-Tetrachlorophenol	232	9.553	9.547	0.006	77	517735	1600.0	1443.9	
248 Hexadecane	57	9.565	9.559	0.006	93	1711590	NC	NC	
120 Diethyl phthalate	149	9.577	9.571	0.006	98	2627543	1600.0	1257.6	
122 4-Chlorophenyl phenyl ether	204	9.712	9.712	0.000	96	1226410	1600.0	1421.7	
125 4-Nitroaniline	138	9.741	9.741	0.000	94	712000	1600.0	1893.5	
124 Fluorene	166	9.747	9.747	0.006	94	2834443	1600.0	1339.1	
127 4,6-Dinitro-2-methylphenol	198	9.759	9.753	0.006	88	885149	3200.0	2903.5	
128 N-Nitrosodiphenylamine	169	9.812	9.806	0.006	98	2009828	1600.0	1324.0	
129 Diphenylamine	169	9.812	9.806	0.006	95	2009828	1368.0	1125.4	
131 Azobenzene	77	9.853	9.847	0.006	98	2754152	1600.0	1254.9	
130 1,2-Diphenylhydrazine	77	9.853	9.847	0.006	96	2754686	1600.0	1255.1	
138 4-Bromophenyl phenyl ether	248	10.141	10.135	0.006	67	645160	1600.0	1431.1	
141 Atrazine	200	10.235	10.229	0.006	93	698383	1600.0	1502.9	
140 Hexachlorobenzene	284	10.241	10.235	0.006	94	664863	1600.0	1382.3	
245 n-Octadecane	57	10.353	10.347	0.006	96	1731782	1600.0	1259.9	
143 Pentachlorophenol	266	10.394	10.388	0.006	91	568113	3200.0	1994.2	
148 Phenanthrene	178	10.588	10.582	0.006	98	3727396	1600.0	1304.1	
149 Anthracene	178	10.635	10.629	0.006	97	3800618	1600.0	1373.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
150 Carbazole	167	10.753	10.747	0.006	96	3749340	1600.0	1488.6	
154 Di-n-butyl phthalate	149	10.976	10.971	0.005	100	4758868	1600.0	1420.4	
159 Fluoranthene	202	11.700	11.694	0.006	99	3732535	1600.0	1473.8	
160 Benzidine	184	11.788	11.777	0.011	100	2482109	3200.0	2496.1	
161 Pyrene	202	11.959	11.947	0.012	96	3807376	1600.0	1331.4	
169 Butyl benzyl phthalate	149	12.588	12.576	0.012	97	2029322	1600.0	1277.3	
174 Bis(2-ethylhexyl) phthalate	149	13.347	13.335	0.012	97	2820684	1600.0	1269.9	
177 3,3'-Dichlorobenzidine	252	13.394	13.382	0.012	75	2506564	3200.0	3037.0	
178 Benzo[a]anthracene	228	13.482	13.470	0.012	99	3390855	1600.0	1400.8	
179 Chrysene	228	13.541	13.529	0.012	98	3206721	1600.0	1328.9	
181 Di-n-octyl phthalate	149	14.364	14.353	0.011	99	4694042	1600.0	1185.8	
183 Benzo[b]fluoranthene	252	15.211	15.200	0.011	99	3303115	1600.0	1348.8	
184 Benzo[k]fluoranthene	252	15.253	15.241	0.006	98	3567239	1600.0	1409.9	
185 Benzo[a]pyrene	252	15.770	15.764	0.006	81	2948608	1600.0	1206.8	
190 Indeno[1,2,3-cd]pyrene	276	17.994	17.982	0.012	96	3541654	1600.0	1296.4	
189 Dibenz(a,h)anthracene	278	18.000	17.988	0.012	90	3152190	1600.0	1379.4	
191 Benzo[g,h,i]perylene	276	18.629	18.617	0.012	94	3017665	1600.0	1508.2	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated

Reagents:

SMIS80PPMW_00027 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 10-Aug-2023 12:42:37 Chrom Revision: 2.3 03-Aug-2023 16:11:04

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\8.D

Injection Date: 09-Aug-2023 10:19:30 Instrument ID: A4AG2 Operator ID:

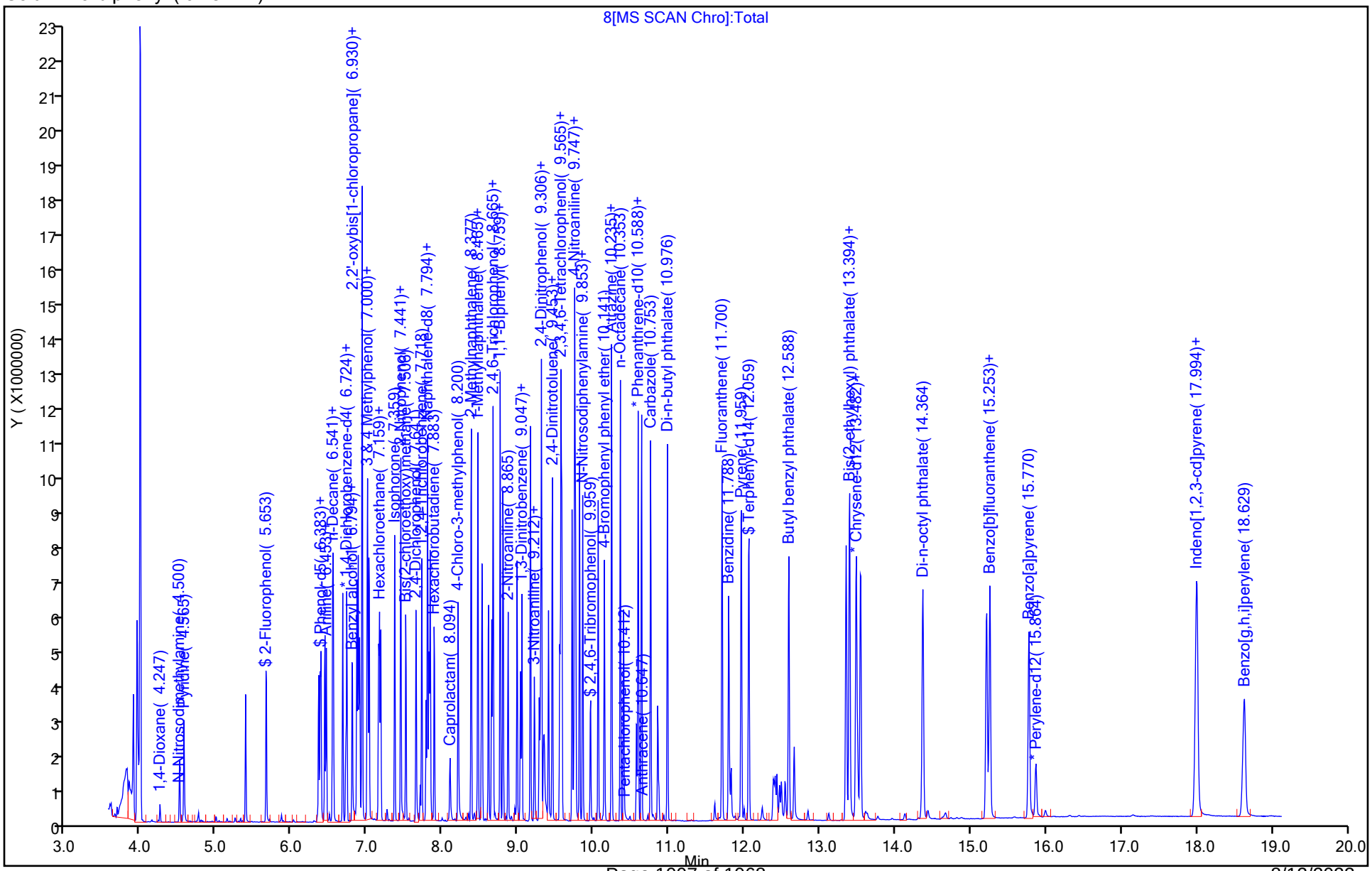
Lims ID: LCS 240-582476/11-A Worklist Smp#: 8

Client ID:

Injection Vol: 5.0 ul Dil. Factor: 1.0000 ALS Bottle#: 8

Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL

Column: 5% phenyl (0.18 mm)



Eurofins Cleveland
Recovery Report

Data File: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\8.D
Lims ID: LCS 240-582476/11-A
Client ID:
Sample Type: LCS
Inject. Date: 09-Aug-2023 10:19:30 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 240-0132248-008
Misc. Info.: LCS 240-582476/11-A
Operator ID: Instrument ID: A4AG2

Method: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\LVI AG2 8270.m
Limit Group: MSS 8270D ICAL
Last Update: 10-Aug-2023 12:37:20 Calib Date: 08-Aug-2023 12:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A4AG2\20230808-132200.b\10.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: KDZ4 Date: 09-Aug-2023 10:57:14

Compound	Amount Added	Amount Recovered	% Rec.
$ 7 2-Fluorophenol	1600.0	2236.7	139.79
$ 8 Phenol-d5	1600.0	1197.3	74.83
$ 9 Nitrobenzene-d5	1600.0	1418.9	88.68
$ 10 2-Fluorobiphenyl (Surr)	1600.0	1333.3	83.33
$ 11 2,4,6-Tribromophenol	1600.0	1481.3	92.58
$ 12 Terphenyl-d14	1600.0	1385.4	86.59

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 240-189273-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-582476/12-A

Matrix: Water | Lab File ID: 9.D

Analysis Method: 8270E | Date Collected:

Extract. Method: 3510C LVI | Date Extracted: 08/01/2023 08:59

Sample wt/vol: 250(mL) | Date Analyzed: 08/09/2023 10:42

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | GC Column: RXI-5SILMS/IIG ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 583312 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
99-35-4	1,3,5-Trinitrobenzene	26.7		10	3.0
130-15-4	1,4-Naphthoquinone	3.71	J	10	3.0
134-32-7	1-Naphthylamine	7.93	J	10	3.0
53-96-3	2-Acetylaminofluorene	29.5		10	3.0
91-59-8	2-Naphthylamine	18.7		10	7.0
109-06-8	2-Picoline	22.9		10	1.0
119-93-7	3,3'-Dimethylbenzidine	19.7		10	3.3
56-49-5	3-Methylcholanthrene	22.8		10	1.0
92-67-1	4-Aminobiphenyl	21.8		10	3.0
56-57-5	4-Nitroquinoline-1-oxide	21.9	J	50	5.0
57-97-6	7,12-Dimethylbenz(a)anthracene	24.1		10	1.8
140-57-8	Aramite, Total	23.1		10	3.7
510-15-6	Chlorobenzilate	22.1		10	3.0
298-04-4	Disulfoton	22.3		10	3.0
56-38-2	Ethyl Parathion	25.7		10	3.0
52-85-7	Famphur	33.8		10	5.0
91-80-5	Methapyrilene	39.2		10	3.0
66-27-3	Methyl methanesulfonate	10.1		10	1.0
298-00-0	Methyl parathion	26.5		10	3.2
924-16-3	N-Nitrosodi-n-butylamine	26.6		10	3.0
10595-95-6	N-Nitrosomethylethylamine	22.2		10	1.0
930-55-2	N-Nitrosopyrrolidine	25.4		10	0.50
60-11-7	p-Dimethylamino azobenzene	27.2		10	3.0
106-50-3	p-Phenylene diamine	150	U	150	26
99-55-8	N-Nitro-o-toluidine	29.7		5.0	1.1
95-53-4	o-Toluidine	23.0		10	4.0

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 240-189273-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-582476/12-A

Matrix: Water | Lab File ID: 9.D

Analysis Method: 8270E | Date Collected:

Extract. Method: 3510C LVI | Date Extracted: 08/01/2023 08:59

Sample wt/vol: 250(mL) | Date Analyzed: 08/09/2023 10:42

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | GC Column: RXI-5SILMS/IIG ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 583312 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14 (Surr)	90		31-140
4165-62-2	Phenol-d5 (Surr)	34		18-120
4165-60-0	Nitrobenzene-d5 (Surr)	83		13-120
367-12-4	2-Fluorophenol (Surr)	79		12-120
321-60-8	2-Fluorobiphenyl (Surr)	81		23-120
118-79-6	2,4,6-Tribromophenol (Surr)	80		10-126

Eurofins Cleveland
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\9.D
Lims ID: LCS 240-582476/12-A
Client ID:
Sample Type: LCS
Inject. Date: 09-Aug-2023 10:42:30 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 240-0132248-009
Misc. Info.: LCS 240-582476/12-A
Operator ID: Instrument ID: A4AG2

Method: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\LVI AG2 8270.m
Limit Group: MSS 8270D ICAL
Last Update: 10-Aug-2023 12:37:20 Calib Date: 08-Aug-2023 12:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A4AG2\20230808-132200.b\10.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: KDZ4 Date: 09-Aug-2023 11:56:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.712	6.712	0.000	95	257656	400.0	400.0	
* 2 Naphthalene-d8	136	7.777	7.777	0.000	99	1164637	400.0	400.0	
* 3 Acenaphthene-d10	164	9.271	9.277	-0.006	93	628511	400.0	400.0	
* 4 Phenanthrene-d10	188	10.559	10.565	-0.006	97	986843	400.0	400.0	
* 5 Chrysene-d12	240	13.482	13.494	-0.012	98	698580	400.0	400.0	
* 6 Perylene-d12	264	15.853	15.865	-0.012	96	791719	400.0	400.0	
$ 7 2-Fluorophenol	112	5.653	5.653	0.000	91	640140	1600.0	1263.2	
$ 8 Phenol-d5	99	6.371	6.371	0.000	0	524677	1600.0	547.2	
$ 9 Nitrobenzene-d5	82	7.159	7.159	0.000	86	1344113	1600.0	1324.4	
$ 10 2-Fluorobiphenyl (Surr)	172	8.665	8.665	0.000	100	2733669	1600.0	1296.0	
$ 11 2,4,6-Tribromophenol	330	9.953	9.953	0.000	93	260144	1600.0	1278.8	
$ 12 Terphenyl-d14	244	12.041	12.047	-0.006	97	2901273	1600.0	1444.2	
31 2-Picoline	93	5.183	5.183	0.000	95	822874	1600.0	1143.5	
32 N-Nitrosomethylethylamine	88	5.253	5.254	-0.001	93	532186	1600.0	1110.8	
34 Methyl methanesulfonate	80	5.489	5.483	0.006	86	272455	1600.0	503.3	
36 N-Nitrosodiethylamine	102	5.824	5.818	0.006	94	587388	1600.0	1154.5	
37 Ethyl methanesulfonate	79	6.042	6.036	0.006	98	724969	1600.0	941.4	
46 Pentachloroethane	167	6.489	6.489	0.000	94	91293	1600.0	356.8	
56 N-Nitrosopyrrolidine	100	6.994	6.995	-0.001	96	650918	1600.0	1268.4	
59 N-Nitrosomorpholine	56	7.018	7.018	0.000	92	681294	1600.0	1214.1	
60 2-Toluidine	106	7.053	7.053	0.000	95	1823179	1600.0	1150.1	
63 N-Nitrosopiperidine	114	7.289	7.289	-0.001	87	681826	1600.0	1376.5	
68 o,o',o''-Triethylphosphorothioat	198	7.477	7.477	0.000	86	542598	1600.0	1356.9	
71 alpha,alpha-Dimethyl phenethylam	58	7.600	7.612	-0.012	97	1765692	1600.0	1009.9	
77 Hexachloropropene	213	7.865	7.871	-0.006	92	434089	1600.0	1073.7	
82 N-Nitrosodi-n-butylamine	84	8.065	8.065	0.000	94	831170	1600.0	1331.2	
81 Quinoline	129	8.065	8.071	-0.006	98	2640354	1600.0	1335.0	
84 p-Phenylene diamine	108		8.106				ND	ND	MU
92 Safrole, Total	162	8.265	8.271	-0.006	93	970895	1600.0	1289.7	
95 Isosafrole Peak 1	162	8.512	8.518	-0.006	92	171373	256.0	202.8	
91 Isosafrole Peak 2	162	8.706	8.712	-0.006	95	1010276	1344.0	1162.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
102 1,4-Naphthoquinone	158	8.930	8.930	0.000	92	100717	1600.0	185.6	
105 1,4-Dinitrobenzene	168	8.953	8.959	-0.006	92	388880	1600.0	1353.2	
114 Pentachlorobenzene	250	9.418	9.424	-0.006	97	755592	1600.0	1321.2	
116 2,3,5,6-Tetrachlorophenol	232	9.512	9.512	0.000	86	147655	NC	NC	
117 1-Naphthylamine	143	9.512	9.512	0.000	98	720375	1600.0	396.3	
119 2-Naphthylamine	143	9.577	9.577	0.000	97	1803318	1600.0	937.5	
121 Thionazin	97	9.647	9.653	-0.006	83	581615	1600.0	1265.6	
123 N-Nitro-o-toluidine	152	9.730	9.736	-0.006	97	793740	1600.0	1482.8	
132 Sulfotepp	202	9.894	9.900	-0.006	79	273641	1600.0	1358.8	
133 1,3,5-Trinitrobenzene	213	9.994	10.000	-0.006	84	193854	1600.0	1336.1	
134 Diallate Peak 1	86	10.035	10.041	-0.006	95	878406	1360.0	903.4	
135 Phenacetin	108	10.041	10.047	-0.006	93	1298135	1600.0	1341.1	
136 Phorate	121	10.047	10.053	-0.006	96	559617	1600.0	1256.8	
137 Diallate Peak 2	86	10.118	10.124	-0.006	92	305370	240.0	324.1	
139 Dimethoate	87	10.200	10.206	-0.006	98	723271	1600.0	922.0	
142 4-Aminobiphenyl	169	10.359	10.365	-0.006	88	2015975	1600.0	1089.0	
144 Pronamide	173	10.377	10.377	0.000	89	1120952	1600.0	1461.3	
145 Pentachloronitrobenzene	237	10.400	10.406	-0.006	85	245084	1600.0	1580.5	
146 Disulfoton	88	10.488	10.494	-0.006	96	1274731	1600.0	1116.3	
147 Dinoseb	211	10.500	10.506	-0.006	94	440542	1600.0	1372.7	
152 Methyl parathion	109	10.829	10.836	-0.007	91	854767	1600.0	1325.6	
155 Ethyl Parathion	97	11.159	11.171	-0.012	84	517035	1600.0	1287.2	
156 4-Nitroquinoline-1-oxide	190	11.247	11.259	-0.012	89	185292	1600.0	1093.7	
157 Methapyrilene	58	11.276	11.283	-0.007	96	2798018	3200.0	1960.9	
158 Isodrin	66	11.541	11.547	-0.006	92	333671	1600.0	1170.8	
162 Aramite Peak 1	185	11.959	11.965	-0.006	0	150593	736.0	592.0	
163 Aramite Peak 2	185	12.041	12.047	-0.006	0	187380	784.0	565.3	
164 p-Dimethylamino azobenzene	225	12.200	12.206	-0.006	89	693683	1600.0	1361.1	
165 Chlorobenzilate	139	12.229	12.235	-0.006	90	1047459	1600.0	1105.9	
168 Famphur	218	12.529	12.541	-0.012	87	544814	1600.0	1689.8	E
170 3,3'-Dimethylbenzidine	212	12.612	12.618	-0.006	99	1130540	1600.0	982.5	
172 2-Acetylaminofluorene	181	12.959	12.971	-0.012	95	1605736	1600.0	1474.2	
175 4,4'-Methylene bis(2-chloroanil	231	13.365	13.371	-0.006	96	604836	1600.0	1348.0	
180 6-Methylchrysene	242	14.223	14.229	-0.006	99	4782746	3200.0	2766.8	
182 7,12-Dimethylbenz(a)anthracene	256	15.164	15.176	-0.012	94	1282835	1600.0	1204.2	
186 3-Methylcholanthrene	268	16.359	16.370	-0.012	95	1531244	3200.0	1140.4	
188 Dibenz[a,h]acridine	279	17.435	17.447	-0.012	92	2487309	1600.0	1290.4	
S 194 Isosafrole	162				0		1600.0	1364.9	
S 195 Diallate	86				0		1600.0	1227.4	
S 196 Aramite, Total	185				0		1600.0	1157.3	

QC Flag Legend

Processing Flags
- NC - Not Calibrated
- ND - Not Detected or Marked ND
- E - Exceeded Maximum Amount

Review Flags
- M - Manually Integrated
- U - Marked Undetected

Reagents:

SMIS80PPMW_00027 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 10-Aug-2023 12:42:40 Chrom Revision: 2.3 03-Aug-2023 16:11:04

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\9.D

Injection Date: 09-Aug-2023 10:42:30 Instrument ID: A4AG2 Operator ID:

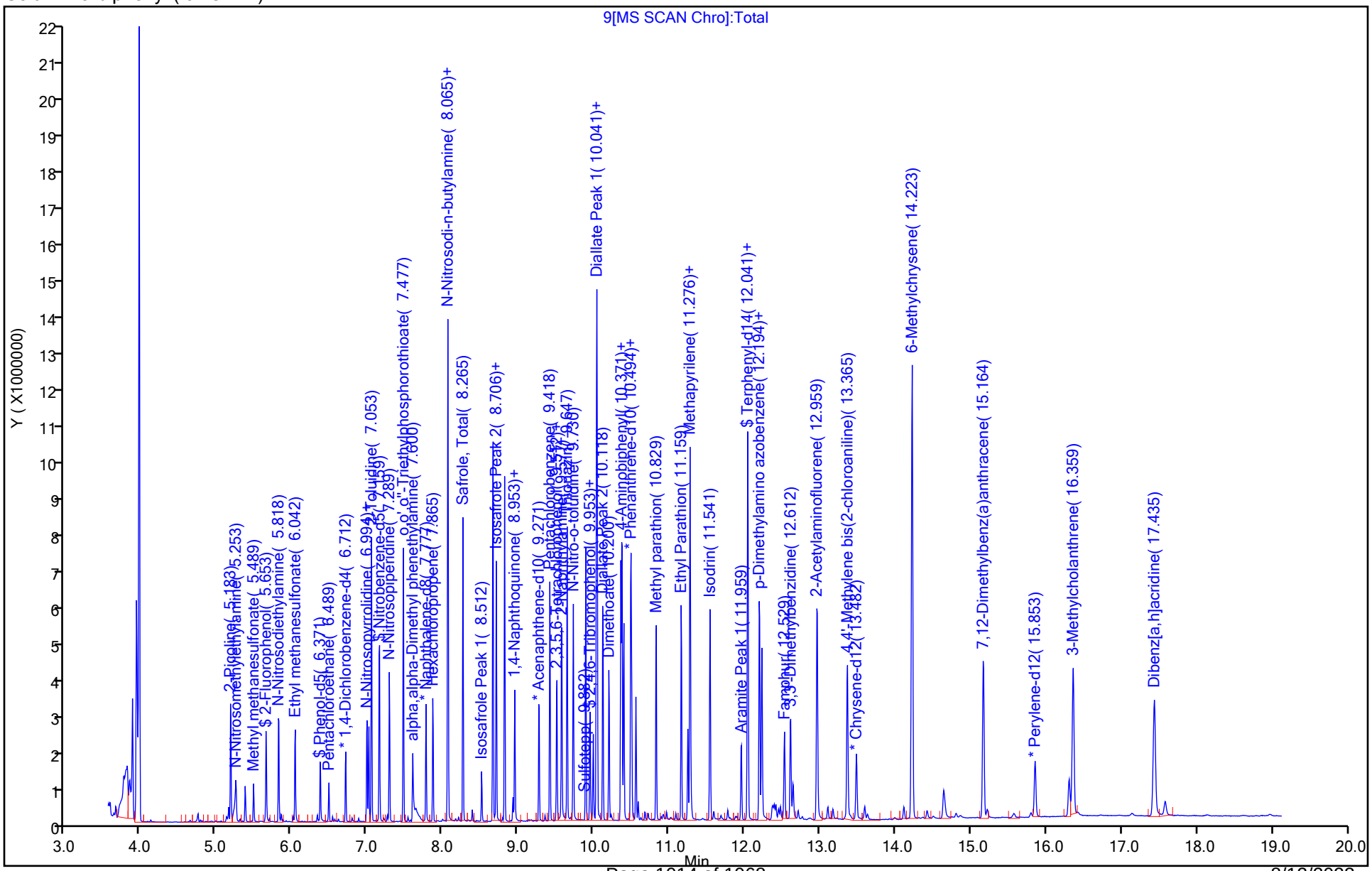
Lims ID: LCS 240-582476/12-A Worklist Smp#: 9

Client ID:

Injection Vol: 5.0 ul Dil. Factor: 1.0000 ALS Bottle#: 9

Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL

Column: 5% phenyl (0.18 mm)



Eurofins Cleveland
Recovery Report

Data File: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\9.D
Lims ID: LCS 240-582476/12-A
Client ID:
Sample Type: LCS
Inject. Date: 09-Aug-2023 10:42:30 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 240-0132248-009
Misc. Info.: LCS 240-582476/12-A
Operator ID: Instrument ID: A4AG2

Method: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\LVI AG2 8270.m
Limit Group: MSS 8270D ICAL
Last Update: 10-Aug-2023 12:37:20 Calib Date: 08-Aug-2023 12:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A4AG2\20230808-132200.b\10.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: KDZ4 Date: 09-Aug-2023 11:56:57

Compound	Amount Added	Amount Recovered	% Rec.
$ 7 2-Fluorophenol	1600.0	1263.2	78.95
$ 8 Phenol-d5	1600.0	547.2	34.20
$ 9 Nitrobenzene-d5	1600.0	1324.4	82.77
$ 10 2-Fluorobiphenyl (Surr)	1600.0	1296.0	81.00
$ 11 2,4,6-Tribromophenol	1600.0	1278.8	79.93
$ 12 Terphenyl-d14	1600.0	1444.2	90.26

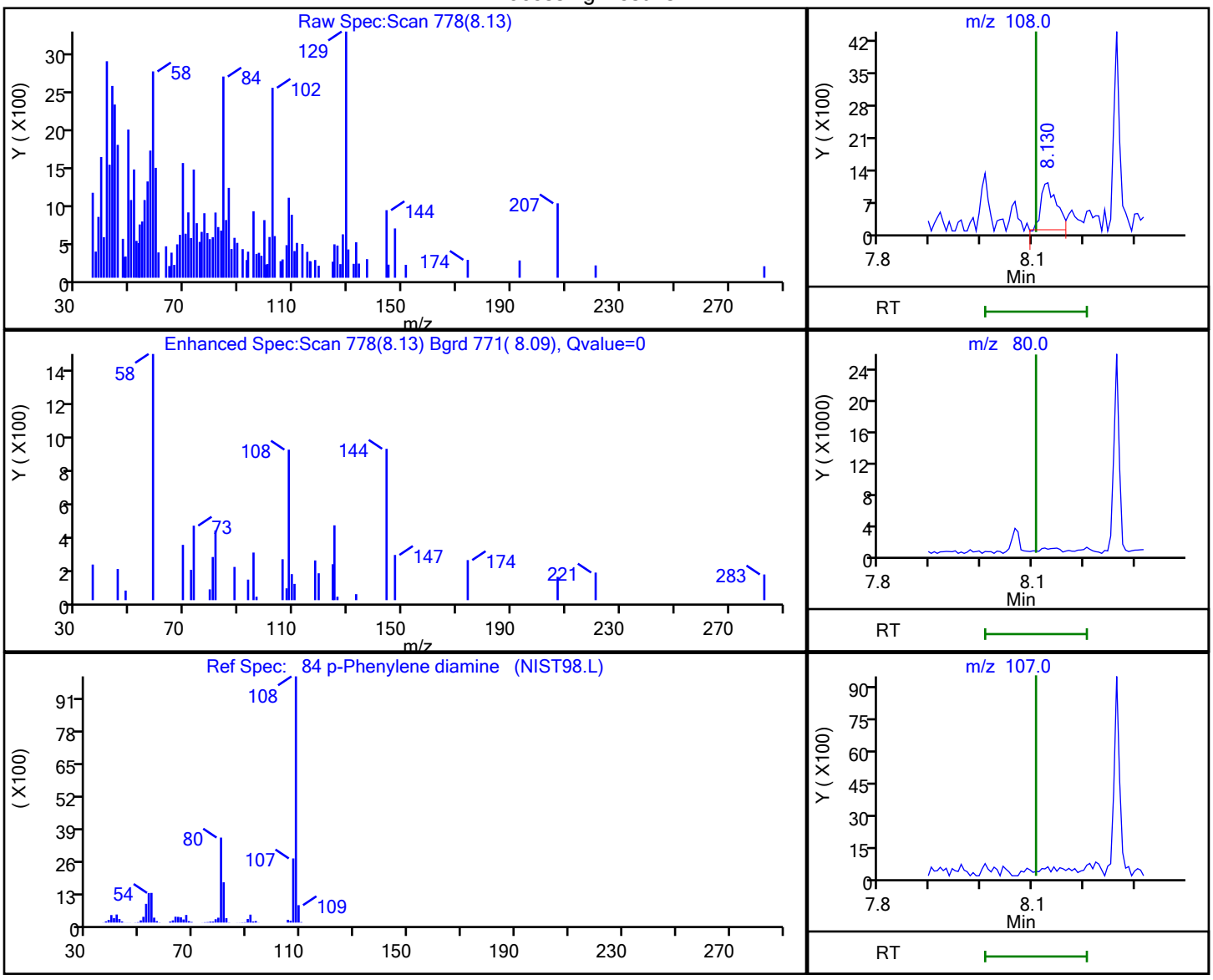
User Disabled Compound Report

Eurofins Cleveland

Data File:	\\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\9.D				
Injection Date:	09-Aug-2023 10:42:30	Instrument ID:	A4AG2		
Lims ID:	LCS 240-582476/12-A				
Client ID:					
Operator ID:		ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

84 p-Phenylene diamine, CAS: 106-50-3

Processing Results



RT	Mass	Response	Amount
8.13	108.00	2109	79.029866
8.11	80.00	0	
8.11	107.00	0	

Reviewer: KDZ4, 09-Aug-2023 11:56:23 -04:00:00 (UTC)

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

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 240-189273-1

SDG No.:

Client Sample ID: 16WC1A MS | Lab Sample ID: 240-189273-4 MS

Matrix: Water | Lab File ID: 18.D

Analysis Method: 8270E | Date Collected: 07/27/2023 09:55

Extract. Method: 3510C LVI | Date Extracted: 08/01/2023 08:59

Sample wt/vol: 270(mL) | Date Analyzed: 08/09/2023 14:11

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | GC Column: RXI-5SILMS/IIG ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 583312 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
99-35-4	1,3,5-Trinitrobenzene	9.3	U	9.3	2.8
130-15-4	1,4-Naphthoquinone	9.3	U	9.3	2.8
134-32-7	1-Naphthylamine	9.3	U	9.3	2.8
105-67-9	2,4-Dimethylphenol	18.6		9.3	2.8
51-28-5	2,4-Dinitrophenol	50.0		9.3	5.7
53-96-3	2-Acetylaminofluorene	9.3	U	9.3	2.8
91-59-8	2-Naphthylamine	9.3	U	9.3	6.5
109-06-8	2-Picoline	9.3	U	9.3	0.93
91-94-1	3,3'-Dichlorobenzidine	50.8		9.3	2.8
119-93-7	3,3'-Dimethylbenzidine	9.3	U	9.3	3.1
56-49-5	3-Methylcholanthrene	9.3	U	9.3	0.93
99-09-2	3-Nitroaniline	23.0		9.3	1.9
534-52-1	4,6-Dinitro-2-methylphenol	48.2		9.3	2.8
92-67-1	4-Aminobiphenyl	9.3	U	9.3	2.8
106-47-8	4-Chloroaniline	9.48		9.3	3.1
100-01-6	4-Nitroaniline	28.9		9.3	1.4
56-57-5	4-Nitroquinoline-1-oxide	46	U	46	4.6
57-97-6	7,12-Dimethylbenz(a)anthracene	9.3	U	9.3	1.7
98-86-2	Acetophenone	23.4		9.3	0.93
62-53-3	Aniline	14.0		9.3	1.0
140-57-8	Aramite, Total	9.3	U	9.3	3.4
100-51-6	Benzyl alcohol	17.7		9.3	2.8
111-91-1	Bis(2-chloroethoxy)methane	22.9		0.93	0.46
111-44-4	Bis(2-chloroethyl)ether	23.5		0.93	0.46
85-68-7	Butyl benzyl phthalate	22.3		9.3	0.65
510-15-6	Chlorobenzilate	9.3	U	9.3	2.8
84-74-2	Di-n-butyl phthalate	25.8		9.3	1.7
298-04-4	Disulfoton	9.3	U	9.3	2.8
56-38-2	Ethyl Parathion	9.3	U	9.3	2.8
52-85-7	Famphur	9.3	U	9.3	4.6
77-47-4	Hexachlorocyclopentadiene	9.62		9.3	2.8
67-72-1	Hexachloroethane	13.3		9.3	0.37

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 240-189273-1

SDG No.:

Client Sample ID: 16WC1A MS | Lab Sample ID: 240-189273-4 MS

Matrix: Water | Lab File ID: 18.D

Analysis Method: 8270E | Date Collected: 07/27/2023 09:55

Extract. Method: 3510C LVI | Date Extracted: 08/01/2023 08:59

Sample wt/vol: 270(mL) | Date Analyzed: 08/09/2023 14:11

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | GC Column: RXI-5SILMS/IIG ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 583312 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
78-59-1	Isophorone	23.9		9.3	0.46
91-80-5	Methapyrilene	9.3	U	9.3	2.8
66-27-3	Methyl methanesulfonate	9.3	U	9.3	0.93
298-00-0	Methyl parathion	9.3	U	9.3	3.0
924-16-3	N-Nitrosodi-n-butylamine	9.3	U	9.3	2.8
621-64-7	N-Nitrosodi-n-propylamine	24.3		9.3	0.46
86-30-6	N-Nitrosodiphenylamine	23.1		9.3	0.54
10595-95-6	N-Nitrosomethylethylamine	9.3	U	9.3	0.93
930-55-2	N-Nitrosopyrrolidine	9.3	U	9.3	0.46
60-11-7	p-Dimethylamino azobenzene	9.3	U	9.3	2.8
106-50-3	p-Phenylene diamine	140	U	140	24
110-86-1	Pyridine	45.1		9.3	1.9
99-55-8	N-Nitro-o-toluidine	4.6	U	4.6	1.1
95-53-4	o-Toluidine	9.3	U	9.3	3.7
100-02-7	4-Nitrophenol	34.3		9.3	2.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14 (Surr)	80		31-140
4165-62-2	Phenol-d5 (Surr)	75		18-120
4165-60-0	Nitrobenzene-d5 (Surr)	83		13-120
367-12-4	2-Fluorophenol (Surr)	91		12-120
321-60-8	2-Fluorobiphenyl (Surr)	75		23-120
118-79-6	2,4,6-Tribromophenol (Surr)	71		10-126

Eurofins Cleveland
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\18.D
Lims ID: 240-189273-L-4-A MS
Client ID: 16WC1A
Sample Type: MS
Inject. Date: 09-Aug-2023 14:11:30 ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 240-0132248-018
Misc. Info.: 240-189273-L-4-A MS
Operator ID: Instrument ID: A4AG2

Method: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\LVI AG2 8270.m
Limit Group: MSS 8270D ICAL
Last Update: 10-Aug-2023 12:37:20 Calib Date: 08-Aug-2023 12:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A4AG2\20230808-132200.b\10.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: KDZ4 Date: 10-Aug-2023 12:19:21

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
*	1 1,4-Dichlorobenzene-d4	152	6.712	6.712	0.000	94	266859	400.0	400.0	
*	2 Naphthalene-d8	136	7.777	7.777	0.000	99	1201760	400.0	400.0	
*	3 Acenaphthene-d10	164	9.271	9.277	-0.006	93	634754	400.0	400.0	
*	4 Phenanthrene-d10	188	10.559	10.565	-0.006	97	976306	400.0	400.0	
*	5 Chrysene-d12	240	13.488	13.494	-0.006	98	761752	400.0	400.0	
*	6 Perylene-d12	264	15.853	15.865	-0.012	96	847125	400.0	400.0	
$	7 2-Fluorophenol	112	5.653	5.653	0.000	91	765458	1600.0	1458.4	
$	8 Phenol-d5	99	6.371	6.371	0.000	0	1188511	1600.0	1196.8	
$	9 Nitrobenzene-d5	82	7.153	7.159	-0.006	87	1386211	1600.0	1323.6	
$	10 2-Fluorobiphenyl (Surr)	172	8.659	8.665	-0.006	100	2541879	1600.0	1193.2	
$	11 2,4,6-Tribromophenol	330	9.953	9.953	0.000	93	233039	1600.0	1138.1	
$	12 Terphenyl-d14	244	12.041	12.047	-0.006	97	2793637	1600.0	1275.3	
	28 Pyridine	79	4.565	4.548	0.017	98	1025811	3200.0	2434.3	
	31 2-Picoline	93		5.183					ND	
	32 N-Nitrosomethylethylamine	88		5.254					ND	U
	34 Methyl methanesulfonate	80		5.483					ND	
	44 Aniline	93	6.430	6.430	0.000	98	1106034	1600.0	757.1	
	45 Bis(2-chloroethyl)ether	93	6.453	6.453	0.000	98	1298466	1600.0	1271.3	
	50 Benzyl alcohol	108	6.795	6.794	0.001	96	597998	1600.0	958.1	
	56 N-Nitrosopyrrolidine	100		6.995					ND	
	57 N-Nitrosodi-n-propylamine	70	7.000	7.000	0.000	86	888534	1600.0	1311.7	
	58 Acetophenone	105	7.018	7.018	0.000	97	1766231	1600.0	1263.1	
	60 2-Toluidine	106		7.053					ND	
	61 Hexachloroethane	117	7.142	7.147	-0.005	95	287502	1600.0	716.5	
	64 Isophorone	82	7.359	7.359	0.000	99	2520973	1600.0	1291.5	
	66 2,4-Dimethylphenol	107	7.436	7.441	-0.005	85	836042	1600.0	1002.1	
	69 Bis(2-chloroethoxy)methane	93	7.506	7.506	0.000	99	1483767	1600.0	1236.3	
	75 4-Chloroaniline	127	7.818	7.818	0.000	96	603607	1600.0	511.7	
	82 N-Nitrosodi-n-butylamine	84		8.065					ND	U
	84 p-Phenylene diamine	108		8.106					ND	
	89 Hexachlorocyclopentadiene	237	8.506	8.506	0.000	97	187130	1600.0	519.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
102 1,4-Naphthoquinone	158		8.930					ND	
109 3-Nitroaniline	138	9.212	9.212	0.000	98	445750	1600.0	1242.1	
110 2,4-Dinitrophenol	184	9.288	9.288	0.000	88	526080	3200.0	2701.9	
112 4-Nitrophenol	109	9.330	9.330	0.000	85	439806	3200.0	1851.4	
117 1-Naphthylamine	143		9.512					ND	
119 2-Naphthylamine	143		9.577					ND	U
123 N-Nitro-o-toluidine	152		9.736					ND	
125 4-Nitroaniline	138	9.736	9.741	-0.005	92	629149	1600.0	1558.8	
127 4,6-Dinitro-2-methylphenol	198	9.753	9.753	0.000	87	780612	3200.0	2603.9	
128 N-Nitrosodiphenylamine	169	9.806	9.806	0.000	98	1907070	1600.0	1246.2	
133 1,3,5-Trinitrobenzene	213		10.000					ND	
142 4-Aminobiphenyl	169		10.365					ND	U
146 Disulfoton	88		10.494					ND	U
152 Methyl parathion	109		10.836					ND	U
154 Di-n-butyl phthalate	149	10.965	10.971	-0.006	100	4706072	1600.0	1393.4	
155 Ethyl Parathion	97		11.171					ND	
156 4-Nitroquinoline-1-oxide	190		11.259					ND	
157 Methapyrilene	58		11.283					ND	
162 Aramite Peak 1	185		11.965					ND	U
163 Aramite Peak 2	185		12.047					ND	U
164 p-Dimethylamino azobenzene	225		12.206					ND	
165 Chlorobenzilate	139		12.235					ND	
168 Famphur	218		12.541					ND	
169 Butyl benzyl phthalate	149	12.571	12.576	-0.005	97	2006933	1600.0	1205.7	
170 3,3'-Dimethylbenzidine	212		12.618					ND	
172 2-Acetylaminofluorene	181		12.971					ND	
177 3,3'-Dichlorobenzidine	252	13.382	13.382	0.000	75	2371579	3200.0	2744.3	
182 7,12-Dimethylbenz(a)anthracene	256		15.176					ND	
186 3-Methylcholanthrene	268		16.370					ND	
S 196 Aramite, Total	185		7.898					ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

SMIS80PPMW_00027 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 10-Aug-2023 12:43:38 Chrom Revision: 2.3 03-Aug-2023 16:11:04

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\18.D

Injection Date: 09-Aug-2023 14:11:30 Instrument ID: A4AG2 Operator ID:

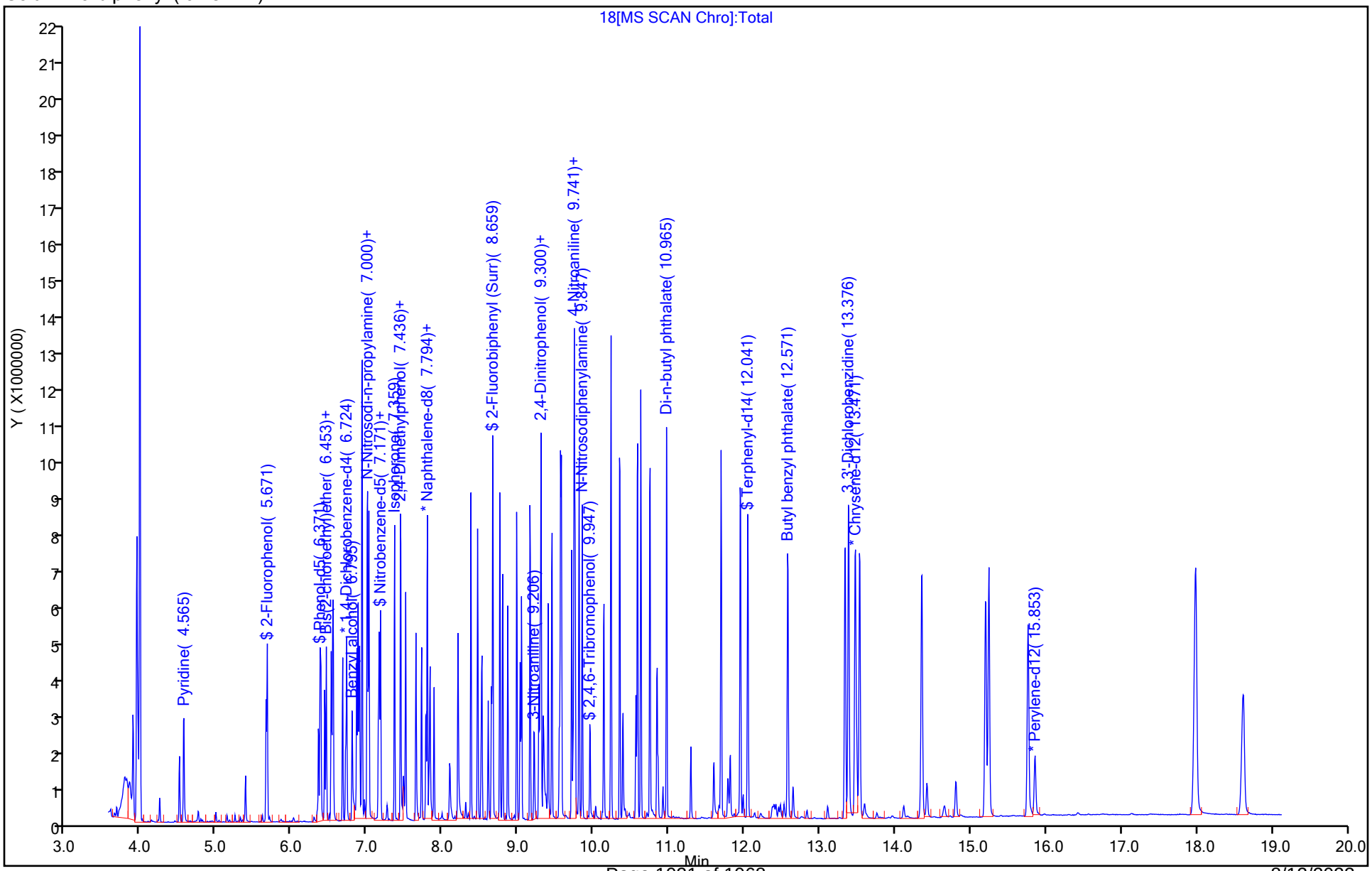
Lims ID: 240-189273-L-4-A MS Worklist Smp#: 18

Client ID: 16WC1A

Injection Vol: 5.0 ul Dil. Factor: 1.0000 ALS Bottle#: 18

Method: LVI AG2 8270 Limit Group: MSS 8270D ICAL

Column: 5% phenyl (0.18 mm)



Eurofins Cleveland
Recovery Report

Data File: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\18.D
Lims ID: 240-189273-L-4-A MS
Client ID: 16WC1A
Sample Type: MS
Inject. Date: 09-Aug-2023 14:11:30 ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 240-0132248-018
Misc. Info.: 240-189273-L-4-A MS
Operator ID: Instrument ID: A4AG2

Method: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\LVI AG2 8270.m
Limit Group: MSS 8270D ICAL
Last Update: 10-Aug-2023 12:37:20 Calib Date: 08-Aug-2023 12:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A4AG2\20230808-132200.b\10.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: KDZ4 Date: 10-Aug-2023 12:19:21

Compound	Amount Added	Amount Recovered	% Rec.
$ 7 2-Fluorophenol	1600.0	1458.4	91.15
$ 8 Phenol-d5	1600.0	1196.8	74.80
$ 9 Nitrobenzene-d5	1600.0	1323.6	82.73
$ 10 2-Fluorobiphenyl (Surr)	1600.0	1193.2	74.58
$ 11 2,4,6-Tribromophenol	1600.0	1138.1	71.13
$ 12 Terphenyl-d14	1600.0	1275.3	79.71

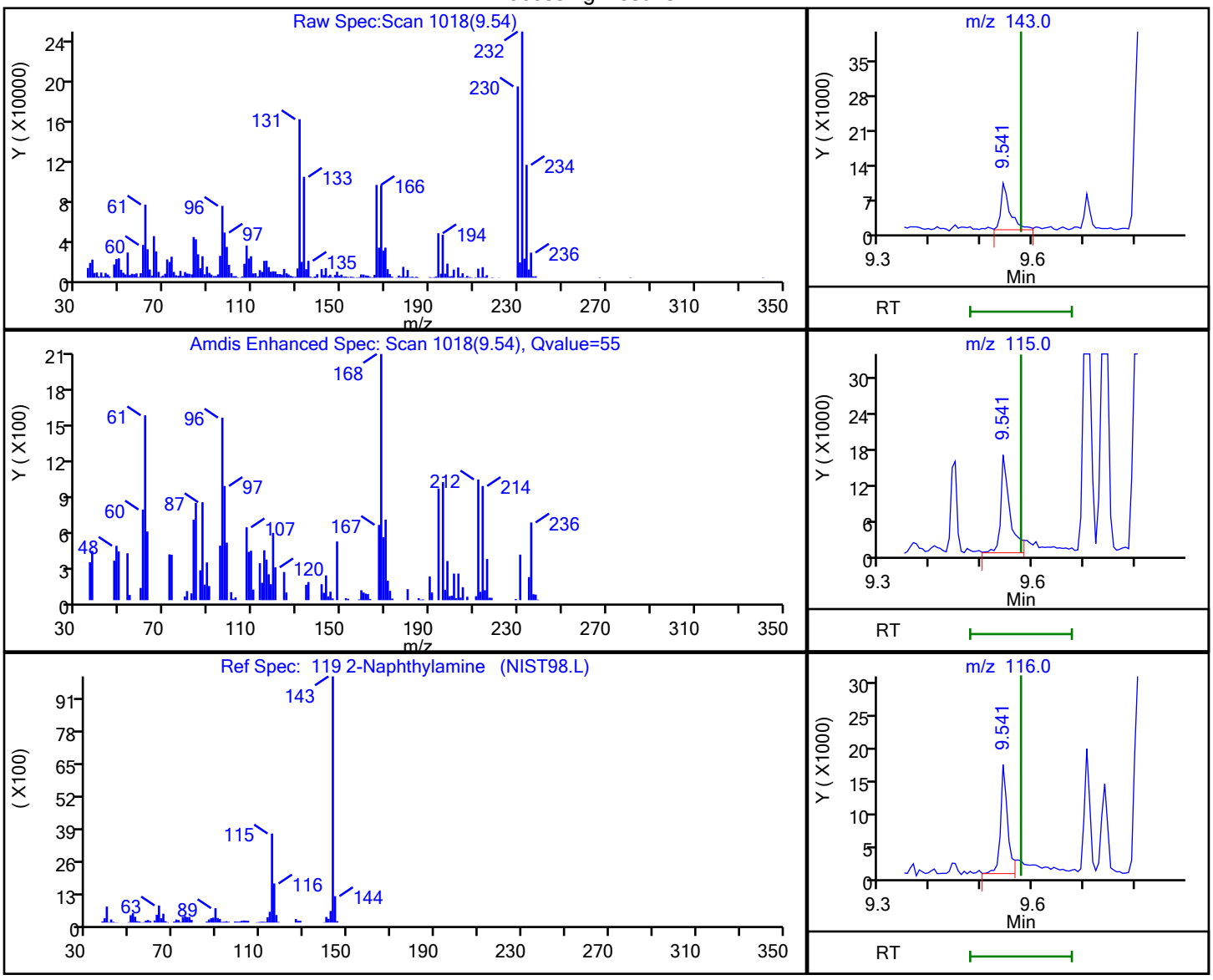
User Disabled Compound Report

Eurofins Cleveland

Data File:	\\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\18.D				
Injection Date:	09-Aug-2023 14:11:30	Instrument ID:	A4AG2		
Lims ID:	240-189273-L-4-A MS				
Client ID:	16WC1A				
Operator ID:		ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

119 2-Naphthylamine, CAS: 91-59-8

Processing Results



RT	Mass	Response	Amount
9.54	143.00	11023	5.673989
9.54	115.00	19817	
9.54	116.00	15987	

Reviewer: KDZ4, 10-Aug-2023 12:18:47 -04:00:00 (UTC)

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

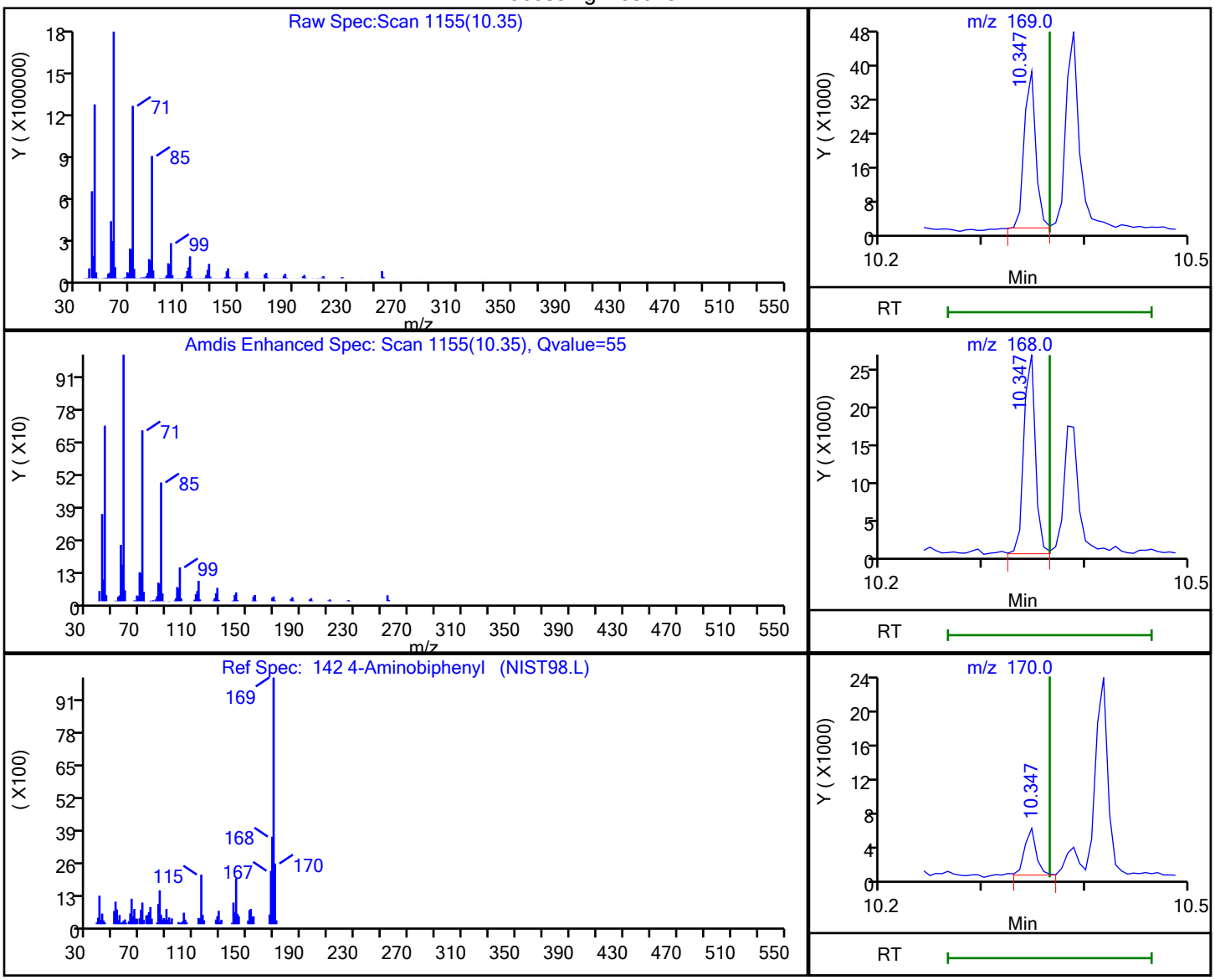
User Disabled Compound Report

Eurofins Cleveland

Data File:	\\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\18.D				
Injection Date:	09-Aug-2023 14:11:30	Instrument ID:	A4AG2		
Lims ID:	240-189273-L-4-A MS				
Client ID:	16WC1A				
Operator ID:		ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

142 4-Aminobiphenyl, CAS: 92-67-1

Processing Results



RT	Mass	Response	Amount
10.35	169.00	29555	16.137006
10.35	168.00	20965	
10.35	170.00	4204	

Reviewer: KDZ4, 10-Aug-2023 12:18:53 -04:00:00 (UTC)

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

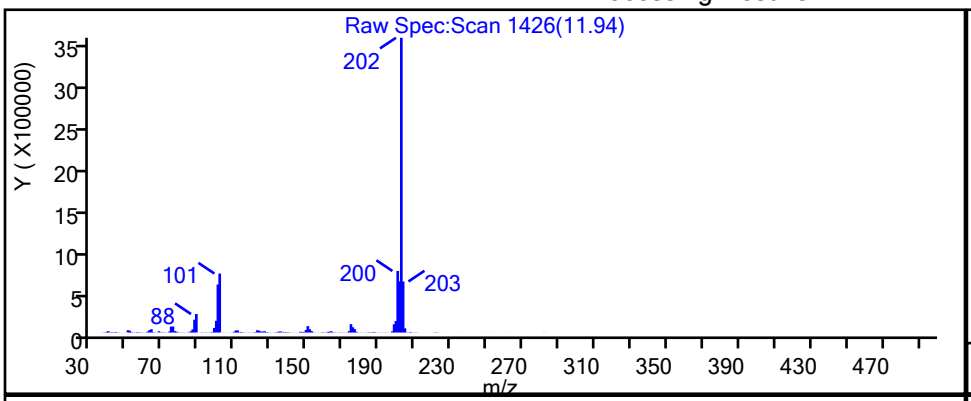
User Disabled Compound Report

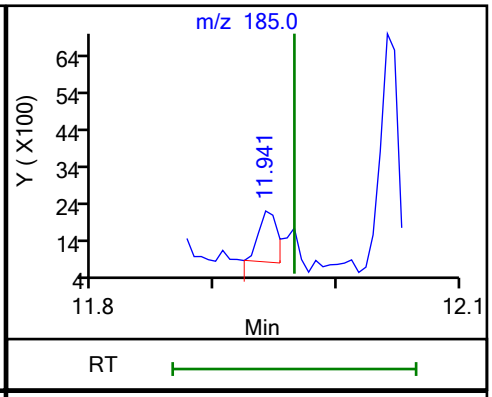
Eurofins Cleveland

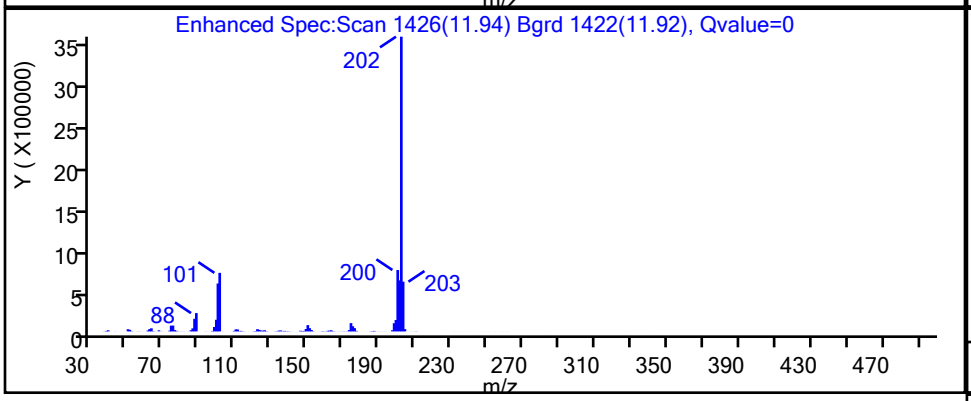
Data File:	\\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\18.D				
Injection Date:	09-Aug-2023 14:11:30	Instrument ID:	A4AG2		
Lims ID:	240-189273-L-4-A MS				
Client ID:	16WC1A				
Operator ID:		ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

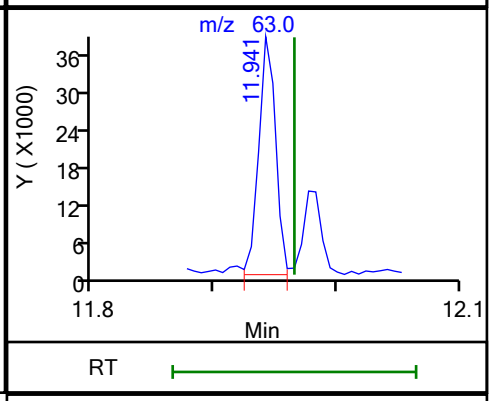
162 Aramite Peak 1, CAS: STL00690

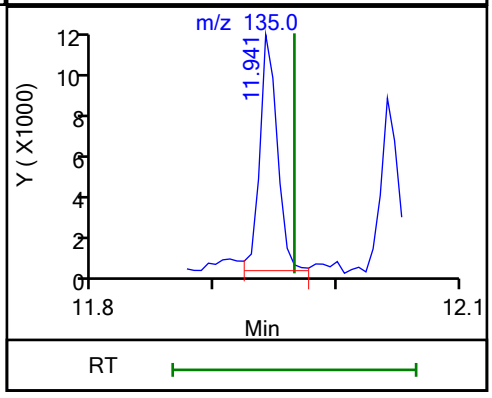
Processing Results











RT	Mass	Response	Amount
11.94	185.00	1493	16.794381
11.94	63.00	36574	
11.94	135.00	10949	

Reviewer: KDZ4, 10-Aug-2023 12:19:03 -04:00:00 (UTC)

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

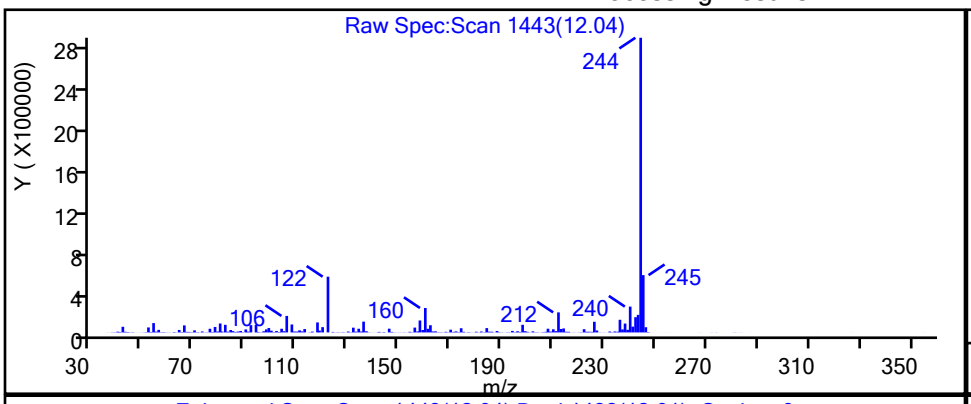
User Disabled Compound Report

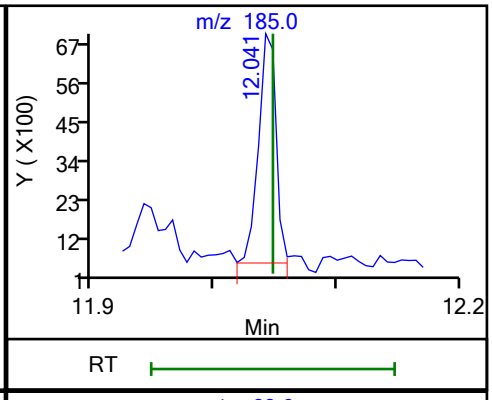
Eurofins Cleveland

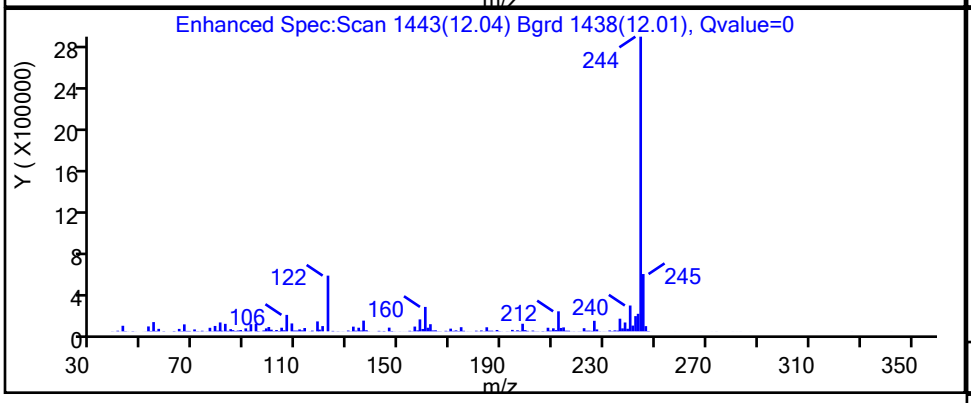
Data File:	\\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\18.D				
Injection Date:	09-Aug-2023 14:11:30	Instrument ID:	A4AG2		
Lims ID:	240-189273-L-4-A MS				
Client ID:	16WC1A				
Operator ID:		ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

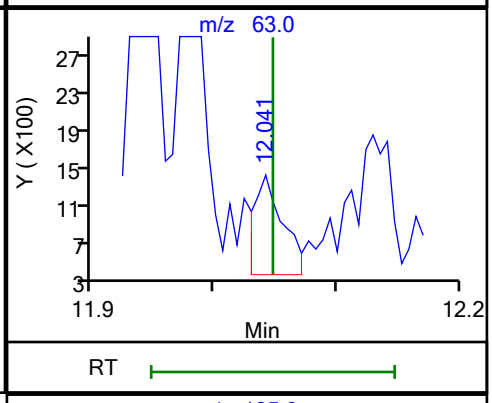
163 Aramite Peak 2, CAS: STL00691

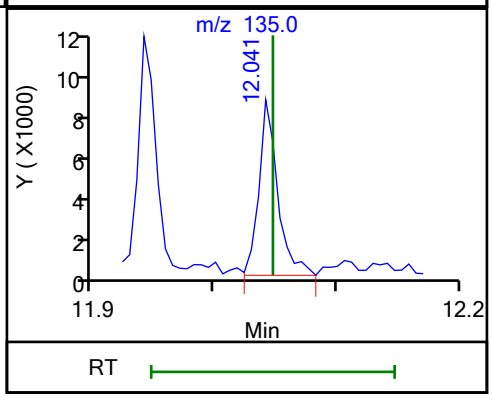
Processing Results











RT	Mass	Response	Amount
12.04	185.00	6498	30.471689
12.04	63.00	1747	
12.04	135.00	8682	

Reviewer: KDZ4, 10-Aug-2023 12:19:05 -04:00:00 (UTC)

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

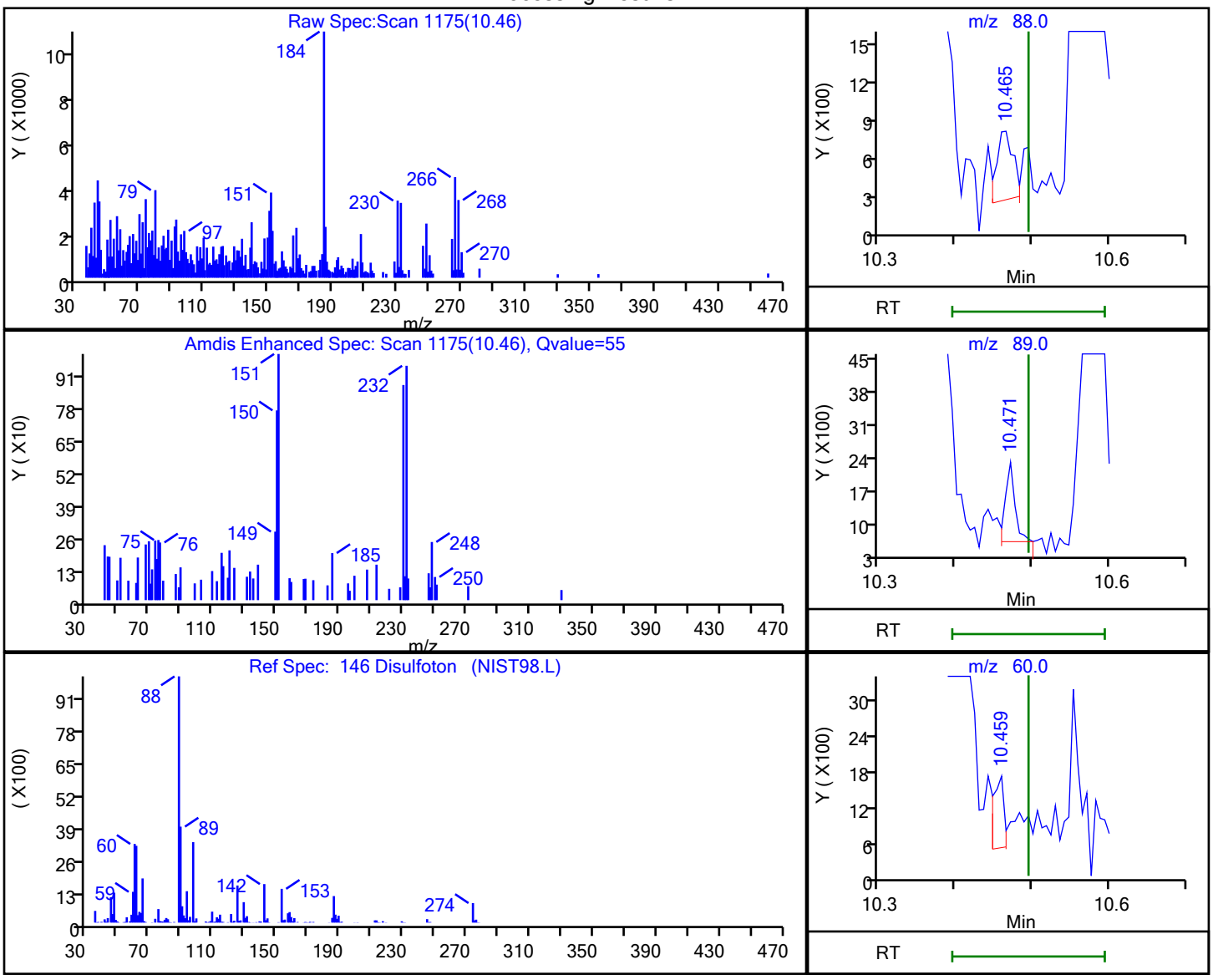
User Disabled Compound Report

Eurofins Cleveland

Data File:	\\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\18.D				
Injection Date:	09-Aug-2023 14:11:30	Instrument ID:	A4AG2		
Lims ID:	240-189273-L-4-A MS				
Client ID:	16WC1A				
Operator ID:		ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

146 Disulfoton, CAS: 298-04-4

Processing Results



RT	Mass	Response	Amount
10.46	88.00	827	0.732028
10.47	89.00	1439	
10.46	60.00	1160	

Reviewer: KDZ4, 10-Aug-2023 12:18:55 -04:00:00 (UTC)

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

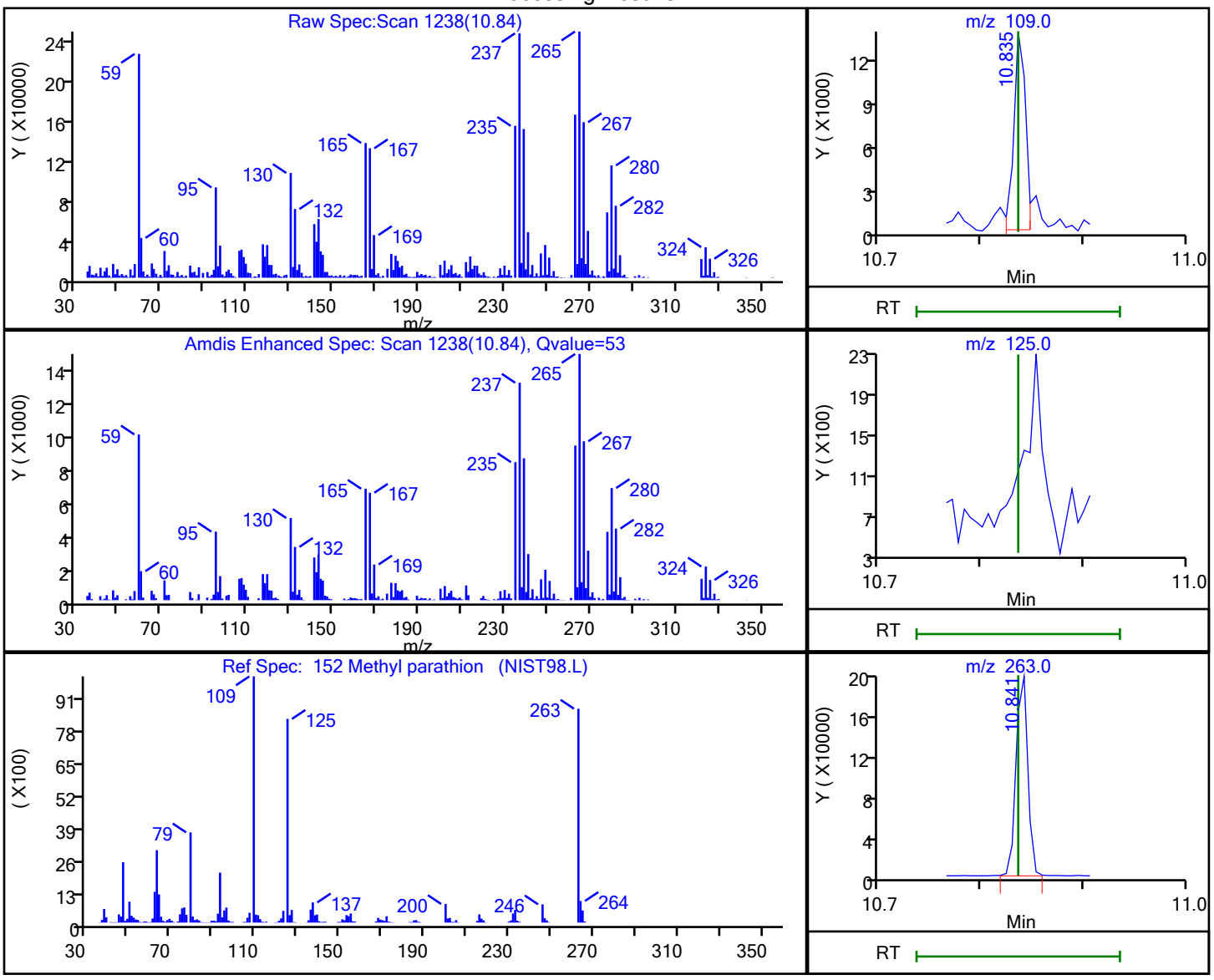
User Disabled Compound Report

Eurofins Cleveland

Data File:	\\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\18.D				
Injection Date:	09-Aug-2023 14:11:30	Instrument ID:	A4AG2		
Lims ID:	240-189273-L-4-A MS				
Client ID:	16WC1A				
Operator ID:		ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

152 Methyl parathion, CAS: 298-00-0

Processing Results



RT	Mass	Response	Amount
10.84	109.00	10682	51.331228
10.84	263.00	158823	
10.84	125.00	0	

Reviewer: KDZ4, 10-Aug-2023 12:18:57 -04:00:00 (UTC)

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

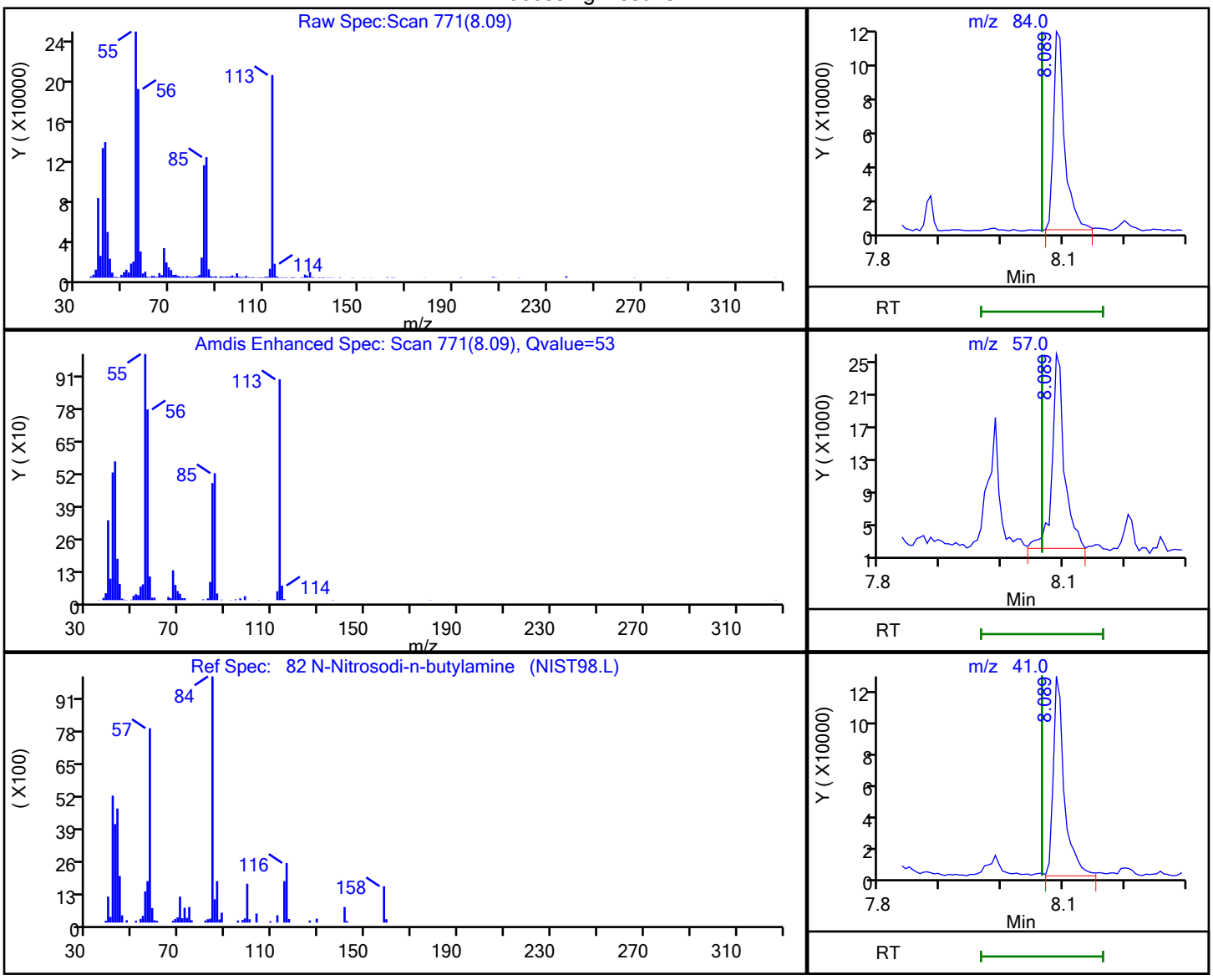
User Disabled Compound Report

Eurofins Cleveland

Data File:	\\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\18.D				
Injection Date:	09-Aug-2023 14:11:30	Instrument ID:	A4AG2		
Lims ID:	240-189273-L-4-A MS				
Client ID:	16WC1A				
Operator ID:		ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

82 N-Nitrosodi-n-butylamine, CAS: 924-16-3

Processing Results



RT	Mass	Response	Amount
8.09	84.00	137506	213.4340
8.09	57.00	33560	
8.09	41.00	156614	

Reviewer: KDZ4, 10-Aug-2023 12:18:29 -04:00:00 (UTC)

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

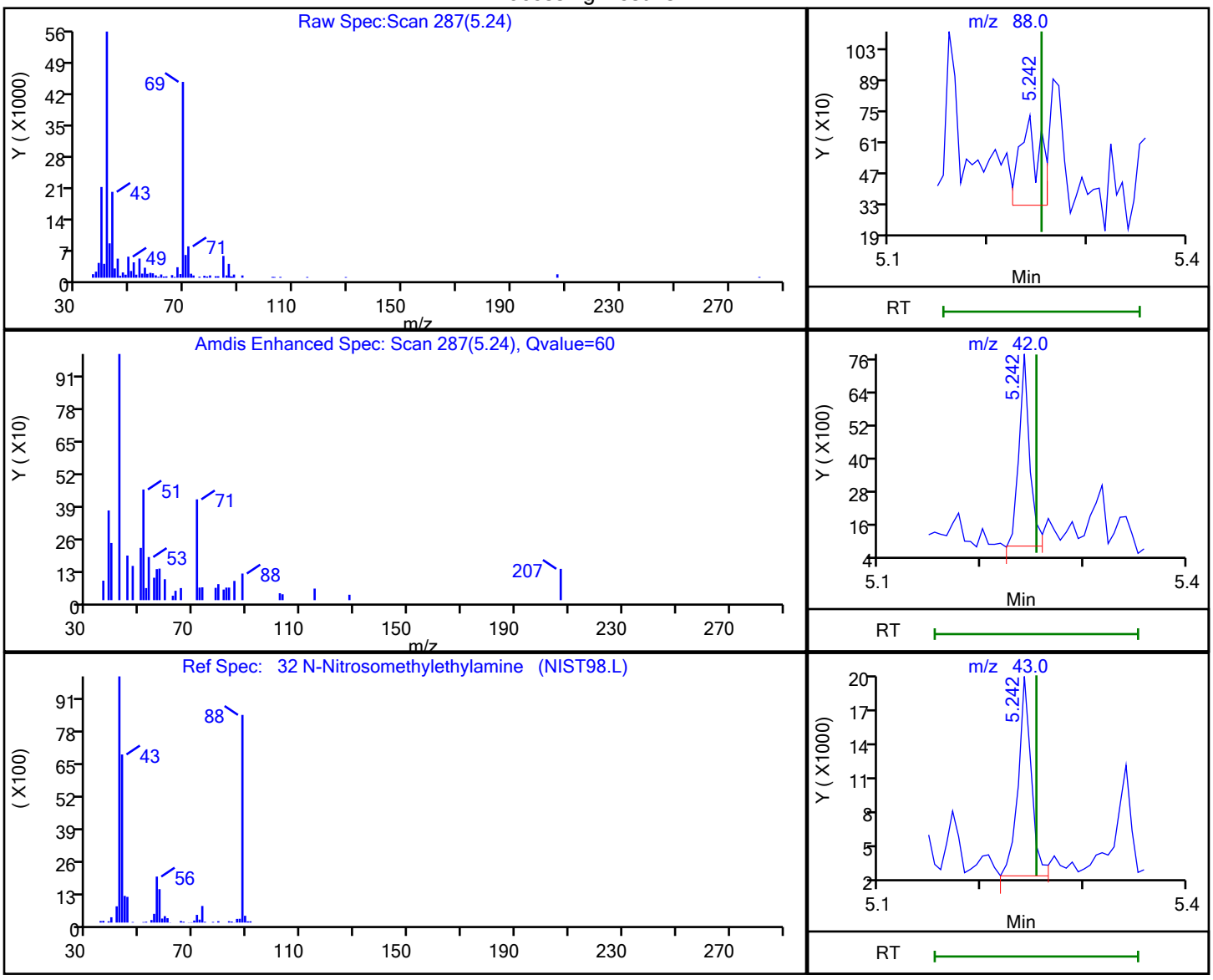
User Disabled Compound Report

Eurofins Cleveland

Data File:	\\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\18.D				
Injection Date:	09-Aug-2023 14:11:30	Instrument ID:	A4AG2		
Lims ID:	240-189273-L-4-A MS				
Client ID:	16WC1A				
Operator ID:		ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

32 N-Nitrosomethylethylamine, CAS: 10595-95-6

Processing Results



RT	Mass	Response	Amount
5.24	88.00	594	1.197013
5.24	42.00	5295	
5.24	43.00	15483	

Reviewer: KDZ4, 10-Aug-2023 12:20:18 -04:00:00 (UTC)

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

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 240-189273-1

SDG No.:

Client Sample ID: 16WC1A MSD | Lab Sample ID: 240-189273-4 MSD

Matrix: Water | Lab File ID: 19.D

Analysis Method: 8270E | Date Collected: 07/27/2023 09:55

Extract. Method: 3510C LVI | Date Extracted: 08/01/2023 08:59

Sample wt/vol: 270(mL) | Date Analyzed: 08/09/2023 14:34

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | GC Column: RXI-5SILMS/IIG ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 583312 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
99-35-4	1,3,5-Trinitrobenzene	9.3	U	9.3	2.8
130-15-4	1,4-Naphthoquinone	9.3	U	9.3	2.8
134-32-7	1-Naphthylamine	9.3	U	9.3	2.8
105-67-9	2,4-Dimethylphenol	21.6		9.3	2.8
51-28-5	2,4-Dinitrophenol	41.1		9.3	5.7
53-96-3	2-Acetylaminofluorene	9.3	U	9.3	2.8
91-59-8	2-Naphthylamine	9.3	U	9.3	6.5
109-06-8	2-Picoline	9.3	U	9.3	0.93
91-94-1	3,3'-Dichlorobenzidine	55.7		9.3	2.8
119-93-7	3,3'-Dimethylbenzidine	9.3	U	9.3	3.1
56-49-5	3-Methylcholanthrene	9.3	U	9.3	0.93
99-09-2	3-Nitroaniline	30.5		9.3	1.9
534-52-1	4,6-Dinitro-2-methylphenol	42.3		9.3	2.8
92-67-1	4-Aminobiphenyl	9.3	U	9.3	2.8
106-47-8	4-Chloroaniline	21.6		9.3	3.1
100-01-6	4-Nitroaniline	38.1		9.3	1.4
56-57-5	4-Nitroquinoline-1-oxide	46	U	46	4.6
57-97-6	7,12-Dimethylbenz(a)anthracene	9.3	U	9.3	1.7
98-86-2	Acetophenone	25.8		9.3	0.93
62-53-3	Aniline	21.1		9.3	1.0
140-57-8	Aramite, Total	9.3	U	9.3	3.4
100-51-6	Benzyl alcohol	19.4		9.3	2.8
111-91-1	Bis(2-chloroethoxy)methane	24.1		0.93	0.46
111-44-4	Bis(2-chloroethyl)ether	25.6		0.93	0.46
85-68-7	Butyl benzyl phthalate	23.3		9.3	0.65
510-15-6	Chlorobenzilate	9.3	U	9.3	2.8
84-74-2	Di-n-butyl phthalate	26.7		9.3	1.7
298-04-4	Disulfoton	9.3	U	9.3	2.8
56-38-2	Ethyl Parathion	9.3	U	9.3	2.8
52-85-7	Famphur	9.3	U	9.3	4.6
77-47-4	Hexachlorocyclopentadiene	11.5		9.3	2.8
67-72-1	Hexachloroethane	16.1		9.3	0.37

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 240-189273-1

SDG No.:

Client Sample ID: 16WC1A MSD | Lab Sample ID: 240-189273-4 MSD

Matrix: Water | Lab File ID: 19.D

Analysis Method: 8270E | Date Collected: 07/27/2023 09:55

Extract. Method: 3510C LVI | Date Extracted: 08/01/2023 08:59

Sample wt/vol: 270(mL) | Date Analyzed: 08/09/2023 14:34

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | GC Column: RXI-5SILMS/IIG ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 583312 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
78-59-1	Isophorone	25.2		9.3	0.46
91-80-5	Methapyrilene	9.3	U	9.3	2.8
66-27-3	Methyl methanesulfonate	9.3	U	9.3	0.93
298-00-0	Methyl parathion	9.3	U	9.3	3.0
924-16-3	N-Nitrosodi-n-butylamine	9.3	U	9.3	2.8
621-64-7	N-Nitrosodi-n-propylamine	26.7		9.3	0.46
86-30-6	N-Nitrosodiphenylamine	24.7		9.3	0.54
10595-95-6	N-Nitrosomethylethylamine	9.3	U	9.3	0.93
930-55-2	N-Nitrosopyrrolidine	9.3	U	9.3	0.46
60-11-7	p-Dimethylamino azobenzene	9.3	U	9.3	2.8
106-50-3	p-Phenylene diamine	140	U	140	24
110-86-1	Pyridine	57.8		9.3	1.9
99-55-8	N-Nitro-o-toluidine	4.6	U	4.6	1.1
95-53-4	o-Toluidine	9.3	U	9.3	3.7
100-02-7	4-Nitrophenol	36.2		9.3	2.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14 (Surr)	84		31-140
4165-62-2	Phenol-d5 (Surr)	93		18-120
4165-60-0	Nitrobenzene-d5 (Surr)	87		13-120
367-12-4	2-Fluorophenol (Surr)	131	S1+	12-120
321-60-8	2-Fluorobiphenyl (Surr)	79		23-120
118-79-6	2,4,6-Tribromophenol (Surr)	89		10-126

Eurofins Cleveland
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\19.D
Lims ID: 240-189273-J-4-A MSD
Client ID: 16WC1A
Sample Type: MSD
Inject. Date: 09-Aug-2023 14:34:30 ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 240-0132248-019
Misc. Info.: 240-189273-J-4-A MSD
Operator ID: Instrument ID: A4AG2

Method: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\LVI AG2 8270.m
Limit Group: MSS 8270D ICAL
Last Update: 10-Aug-2023 12:37:20 Calib Date: 08-Aug-2023 12:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A4AG2\20230808-132200.b\10.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: KDZ4 Date: 10-Aug-2023 12:19:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.712	6.712	0.000	94	250198	400.0	400.0	
* 2 Naphthalene-d8	136	7.771	7.777	-0.006	99	1172697	400.0	400.0	
* 3 Acenaphthene-d10	164	9.271	9.277	-0.006	93	603212	400.0	400.0	
* 4 Phenanthrene-d10	188	10.559	10.565	-0.006	96	928502	400.0	400.0	
* 5 Chrysene-d12	240	13.488	13.494	-0.006	98	710691	400.0	400.0	
* 6 Perylene-d12	264	15.853	15.865	-0.012	95	755901	400.0	400.0	
$ 7 2-Fluorophenol	112	5.654	5.653	0.001	91	1031627	1600.0	2096.4	
$ 8 Phenol-d5	99	6.371	6.371	0.000	0	1380682	1600.0	1482.9	
$ 9 Nitrobenzene-d5	82	7.153	7.159	-0.006	87	1428155	1600.0	1397.5	
$ 10 2-Fluorobiphenyl (Surr)	172	8.659	8.665	-0.006	99	2544621	1600.0	1257.0	
$ 11 2,4,6-Tribromophenol	330	9.953	9.953	0.000	92	279979	1600.0	1430.0	
$ 12 Terphenyl-d14	244	12.041	12.047	-0.006	97	2741757	1600.0	1341.5	
28 Pyridine	79	4.565	4.548	0.017	97	1232531	3200.0	3119.7	E
31 2-Picoline	93		5.183					ND	
32 N-Nitrosomethylethylamine	88		5.254					ND	
34 Methyl methanesulfonate	80		5.483					ND	
44 Aniline	93	6.430	6.430	0.000	99	1563786	1600.0	1141.8	
45 Bis(2-chloroethyl)ether	93	6.453	6.453	0.000	98	1321870	1600.0	1380.4	
50 Benzyl alcohol	108	6.795	6.794	0.001	96	611974	1600.0	1045.8	
56 N-Nitrosopyrrolidine	100		6.995					ND	
57 N-Nitrosodi-n-propylamine	70	7.000	7.000	0.000	85	914861	1600.0	1440.5	
58 Acetophenone	105	7.018	7.018	0.000	97	1823967	1600.0	1391.2	
60 2-Toluidine	106		7.053					ND	
61 Hexachloroethane	117	7.142	7.147	-0.005	96	327286	1600.0	869.9	
64 Isophorone	82	7.359	7.359	0.000	99	2597072	1600.0	1363.4	
66 2,4-Dimethylphenol	107	7.436	7.441	-0.005	85	950416	1600.0	1167.4	
69 Bis(2-chloroethoxy)methane	93	7.506	7.506	0.000	98	1521814	1600.0	1299.4	
75 4-Chloroaniline	127	7.812	7.818	-0.006	97	1342484	1600.0	1166.4	
82 N-Nitrosodi-n-butylamine	84		8.065					ND	U
84 p-Phenylene diamine	108		8.106					ND	
89 Hexachlorocyclopentadiene	237	8.506	8.506	0.000	96	213410	1600.0	623.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
102 1,4-Naphthoquinone	158		8.930					ND	
109 3-Nitroaniline	138	9.206	9.212	-0.006	98	561935	1600.0	1647.7	
110 2,4-Dinitrophenol	184	9.289	9.288	0.001	84	387264	3200.0	2218.9	
112 4-Nitrophenol	109	9.330	9.330	0.000	84	441725	3200.0	1953.3	
117 1-Naphthylamine	143		9.512					ND	
119 2-Naphthylamine	143		9.577					ND	U
123 N-Nitro-o-toluidine	152		9.736					ND	U
125 4-Nitroaniline	138	9.736	9.741	-0.005	92	720248	1600.0	2059.7	
127 4,6-Dinitro-2-methylphenol	198	9.753	9.753	0.000	88	633295	3200.0	2286.0	
128 N-Nitrosodiphenylamine	169	9.806	9.806	0.000	98	1944604	1600.0	1336.2	
133 1,3,5-Trinitrobenzene	213		10.000					ND	U
142 4-Aminobiphenyl	169		10.365					ND	U
146 Disulfoton	88		10.494					ND	U
152 Methyl parathion	109		10.836					ND	U
154 Di-n-butyl phthalate	149	10.965	10.971	-0.006	100	4626465	1600.0	1440.4	
155 Ethyl Parathion	97		11.171					ND	
156 4-Nitroquinoline-1-oxide	190		11.259					ND	
157 Methapyrilene	58		11.283					ND	
162 Aramite Peak 1	185		11.965					ND	U
163 Aramite Peak 2	185		12.047					ND	U
164 p-Dimethylamino azobenzene	225		12.206					ND	
165 Chlorobenzilate	139		12.235					ND	
168 Famphur	218		12.541					ND	U
169 Butyl benzyl phthalate	149	12.577	12.576	0.001	97	1959563	1600.0	1260.7	
170 3,3'-Dimethylbenzidine	212		12.618					ND	U
172 2-Acetylaminofluorene	181		12.971					ND	
177 3,3'-Dichlorobenzidine	252	13.382	13.382	0.000	75	2430571	3200.0	3009.6	
182 7,12-Dimethylbenz(a)anthracene	256		15.176					ND	
186 3-Methylcholanthrene	268		16.370					ND	
S 196 Aramite, Total	185		7.898					ND	7

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

SMIS80PPMW_00027 Amount Added: 5.00 Units: uL Run Reagent

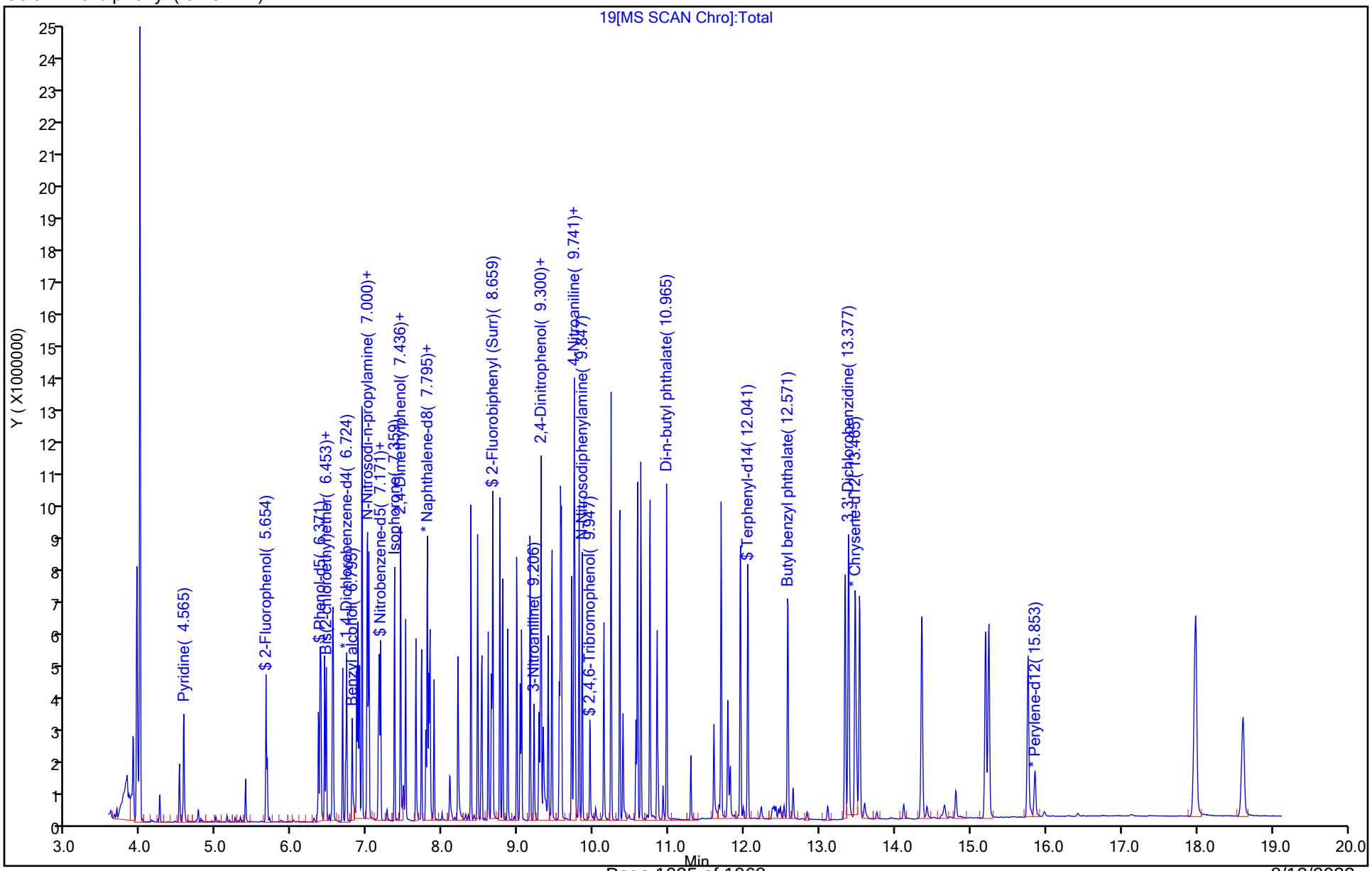
Report Date: 10-Aug-2023 12:43:41 Chrom Revision: 2.3 03-Aug-2023 16:11:04

Eurofins Cleveland

Data File: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\19.D

Injection Date:	09-Aug-2023 14:34:30	Instrument ID:	A4AG2	Operator ID:	
Lims ID:	240-189273-J-4-A MSD			Worklist Smp#:	19
Client ID:	16WC1A				
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		

Column: 5% phenyl (0.18 mm)



8/12/2023
10:47 AM

Eurofins Cleveland
Recovery Report

Data File: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\19.D
Lims ID: 240-189273-J-4-A MSD
Client ID: 16WC1A
Sample Type: MSD
Inject. Date: 09-Aug-2023 14:34:30 ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 240-0132248-019
Misc. Info.: 240-189273-J-4-A MSD
Operator ID: Instrument ID: A4AG2

Method: \\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\LVI AG2 8270.m
Limit Group: MSS 8270D ICAL
Last Update: 10-Aug-2023 12:37:20 Calib Date: 08-Aug-2023 12:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A4AG2\20230808-132200.b\10.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: KDZ4 Date: 10-Aug-2023 12:19:34

Compound	Amount Added	Amount Recovered	% Rec.
$ 7 2-Fluorophenol	1600.0	2096.4	131.02
$ 8 Phenol-d5	1600.0	1482.9	92.68
$ 9 Nitrobenzene-d5	1600.0	1397.5	87.34
$ 10 2-Fluorobiphenyl (Surr)	1600.0	1257.0	78.56
$ 11 2,4,6-Tribromophenol	1600.0	1430.0	89.37
$ 12 Terphenyl-d14	1600.0	1341.5	83.85

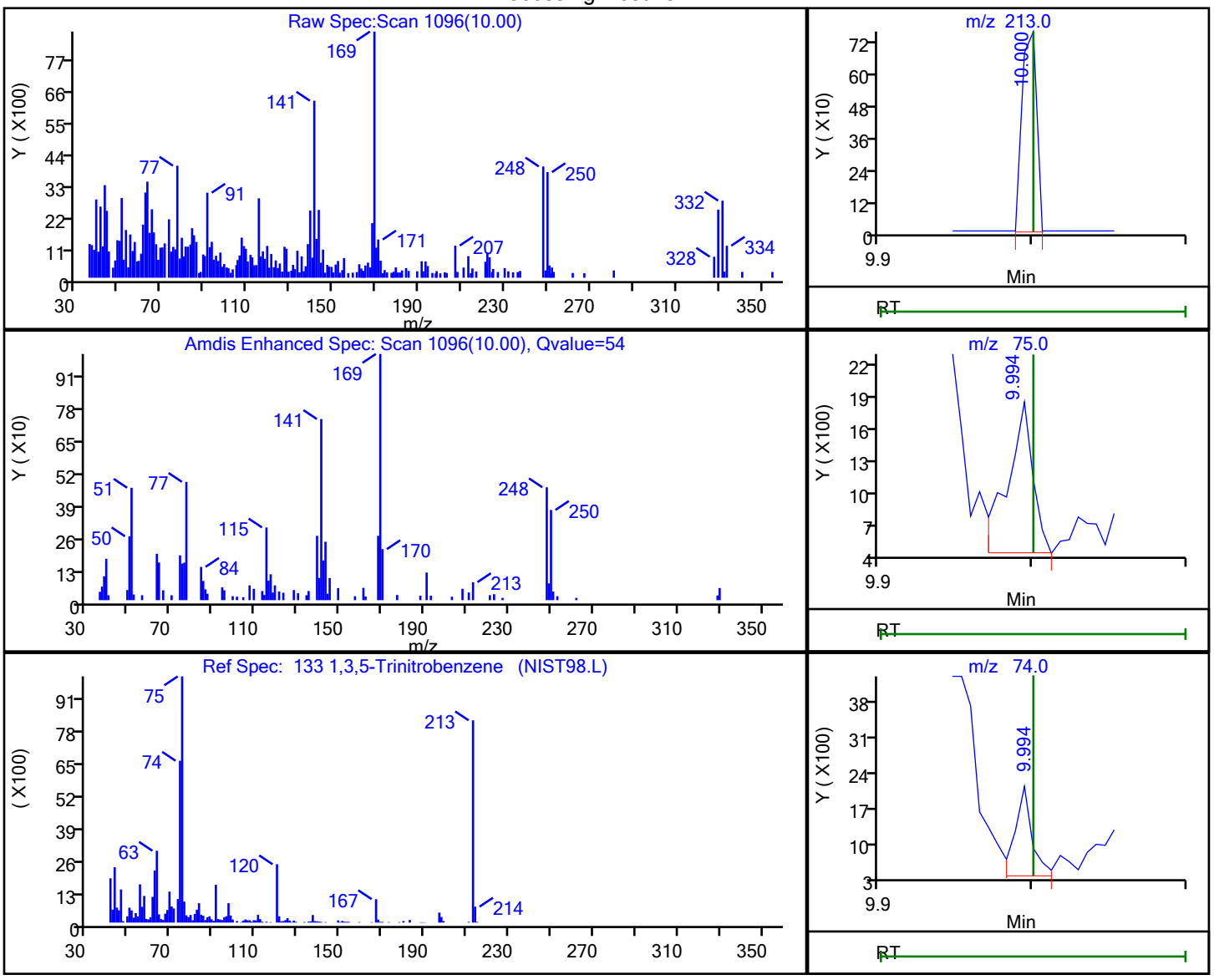
User Disabled Compound Report

Eurofins Cleveland

Data File:	\\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\19.D				
Injection Date:	09-Aug-2023 14:34:30	Instrument ID:	A4AG2		
Lims ID:	240-189273-J-4-A MSD				
Client ID:	16WC1A				
Operator ID:		ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

133 1,3,5-Trinitrobenzene, CAS: 99-35-4

Processing Results



RT	Mass	Response	Amount
10.00	213.00	508	87.357506
9.99	75.00	1619	
9.99	74.00	1322	

Reviewer: KDZ4, 10-Aug-2023 12:20:48 -04:00:00 (UTC)

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

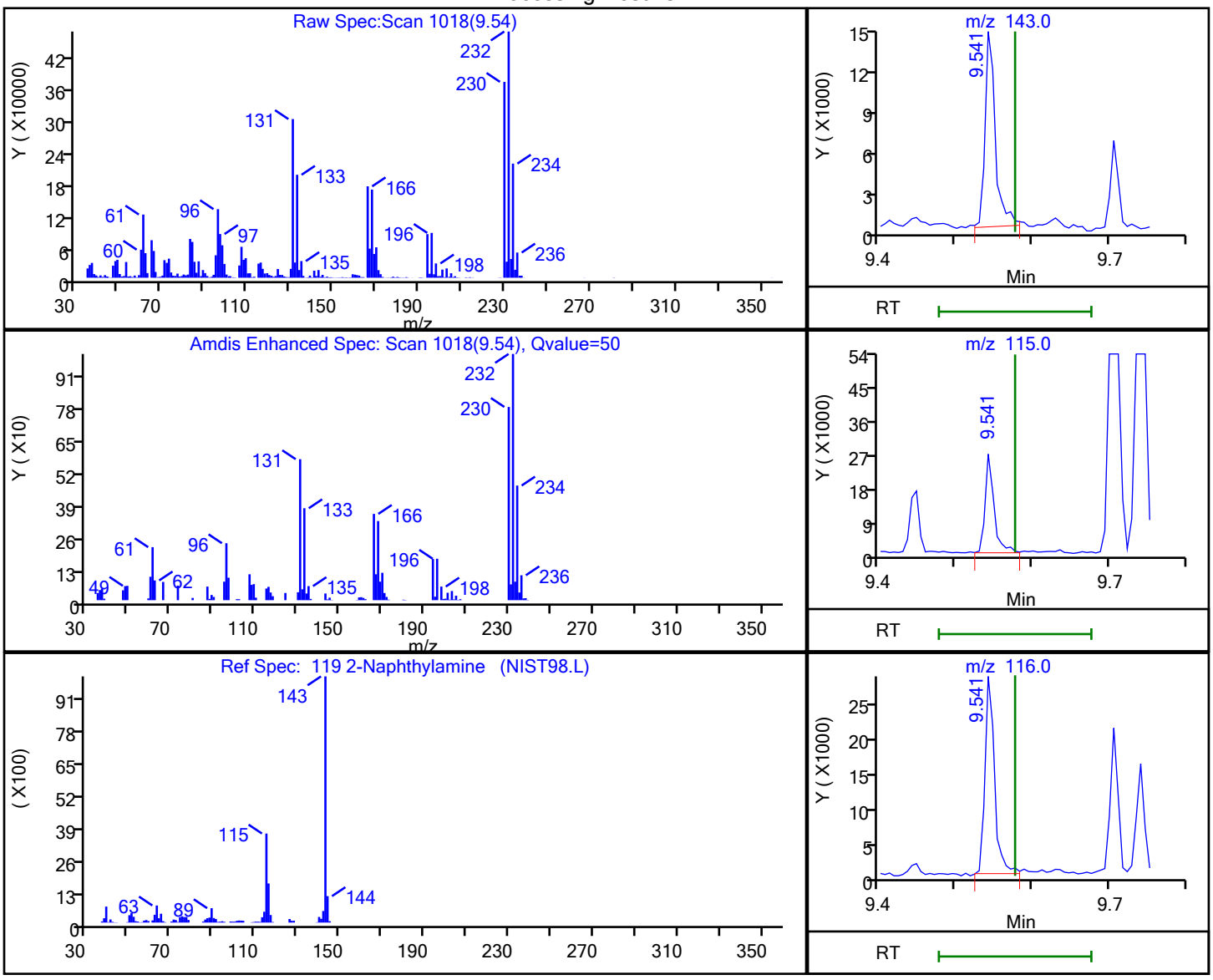
User Disabled Compound Report

Eurofins Cleveland

Data File:	\\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\19.D				
Injection Date:	09-Aug-2023 14:34:30	Instrument ID:	A4AG2		
Lims ID:	240-189273-J-4-A MSD				
Client ID:	16WC1A				
Operator ID:		ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

119 2-Naphthylamine, CAS: 91-59-8

Processing Results



RT	Mass	Response	Amount
9.54	143.00	13355	7.233825
9.54	115.00	21418	
9.54	116.00	24919	

Reviewer: KDZ4, 10-Aug-2023 12:20:43 -04:00:00 (UTC)

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

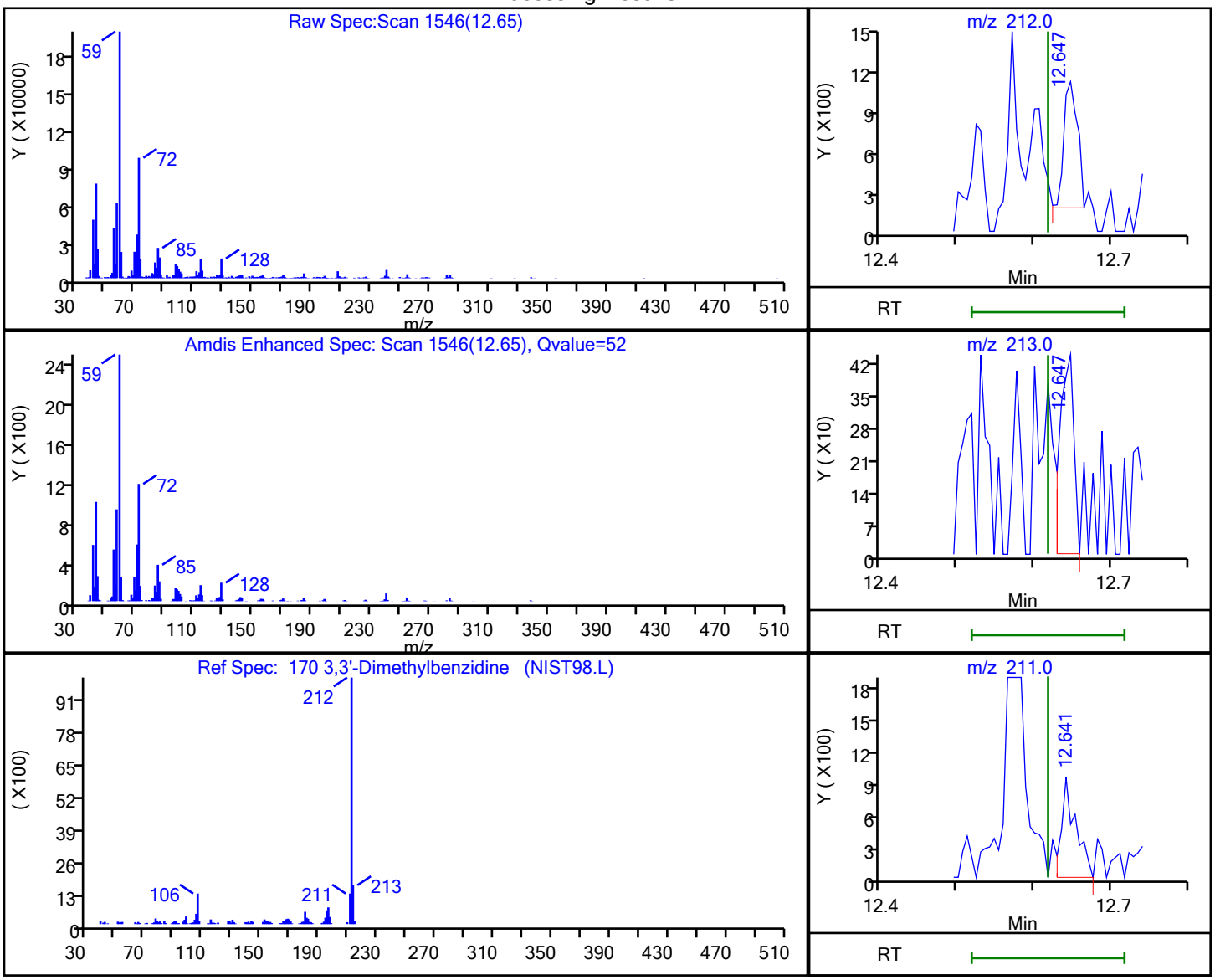
User Disabled Compound Report

Eurofins Cleveland

Data File:	\\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\19.D				
Injection Date:	09-Aug-2023 14:34:30	Instrument ID:	A4AG2		
Lims ID:	240-189273-J-4-A MSD				
Client ID:	16WC1A				
Operator ID:		ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

170 3,3'-Dimethylbenzidine, CAS: 119-93-7

Processing Results



RT	Mass	Response	Amount
12.65	212.00	1147	19.208082
12.65	213.00	538	
12.64	211.00	1236	

Reviewer: KDZ4, 10-Aug-2023 12:21:07 -04:00:00 (UTC)

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

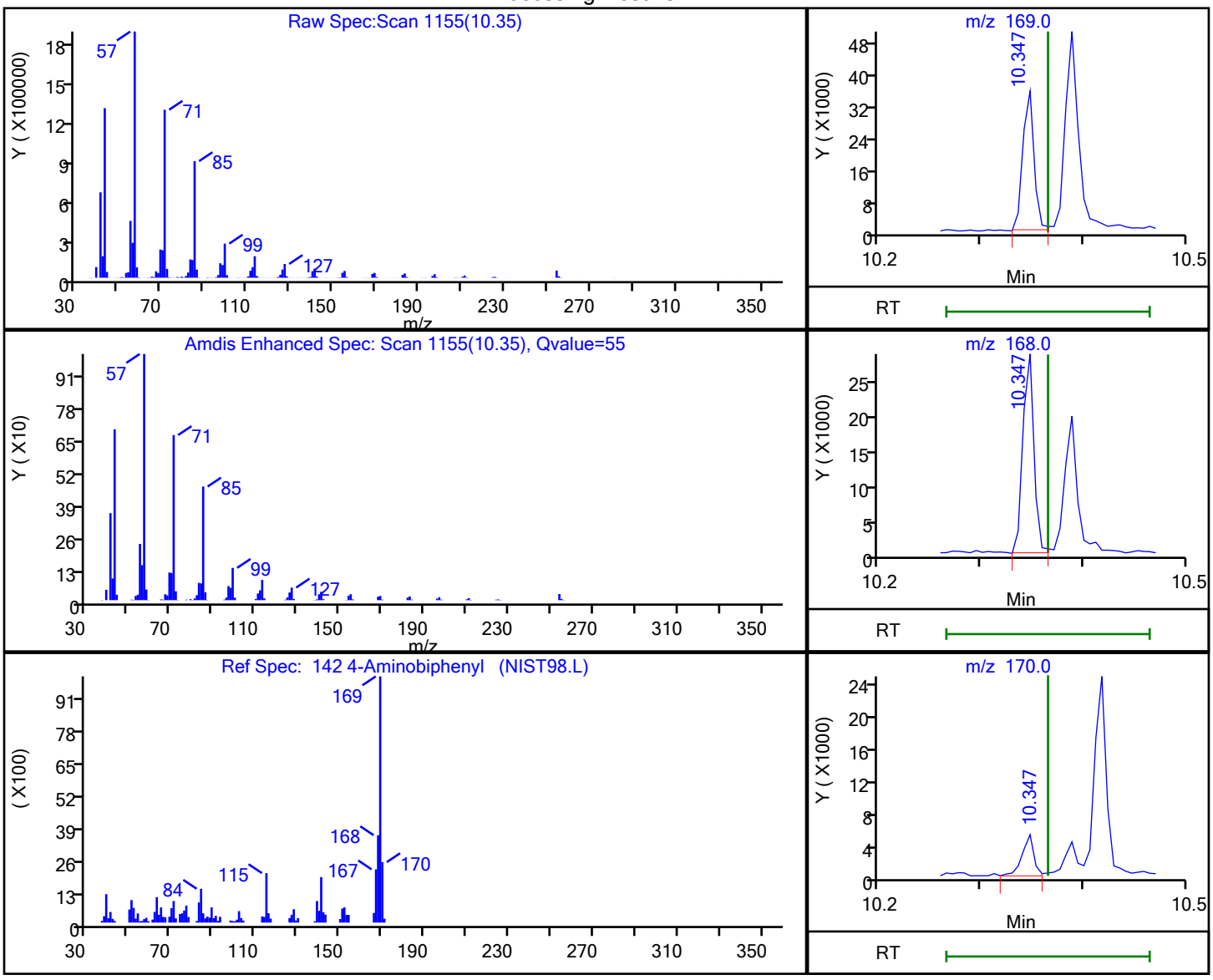
User Disabled Compound Report

Eurofins Cleveland

Data File:	\\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\19.D				
Injection Date:	09-Aug-2023 14:34:30	Instrument ID:	A4AG2		
Lims ID:	240-189273-J-4-A MSD				
Client ID:	16WC1A				
Operator ID:		ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

142 4-Aminobiphenyl, CAS: 92-67-1

Processing Results



RT	Mass	Response	Amount
10.35	169.00	27548	15.815583
10.35	168.00	21378	
10.35	170.00	4156	

Reviewer: KDZ4, 10-Aug-2023 12:20:51 -04:00:00 (UTC)

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

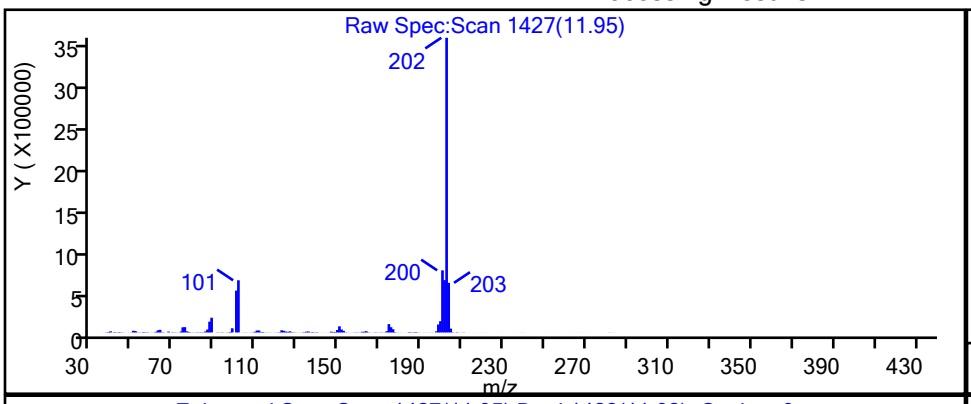
User Disabled Compound Report

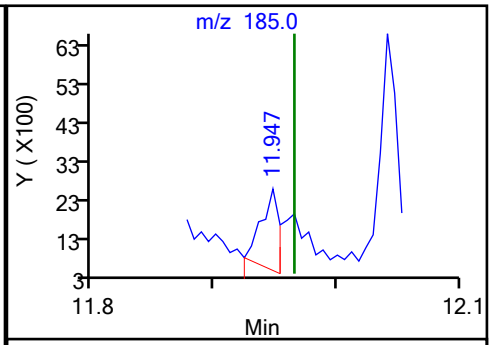
Eurofins Cleveland

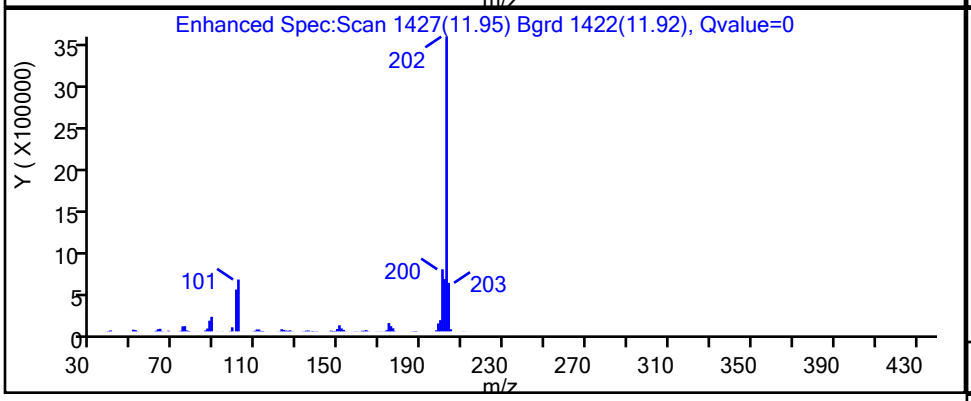
Data File:	\\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\19.D				
Injection Date:	09-Aug-2023 14:34:30	Instrument ID:	A4AG2		
Lims ID:	240-189273-J-4-A MSD				
Client ID:	16WC1A				
Operator ID:		ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

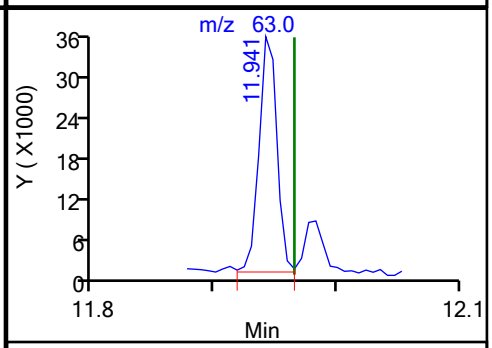
162 Aramite Peak 1, CAS: STL00690

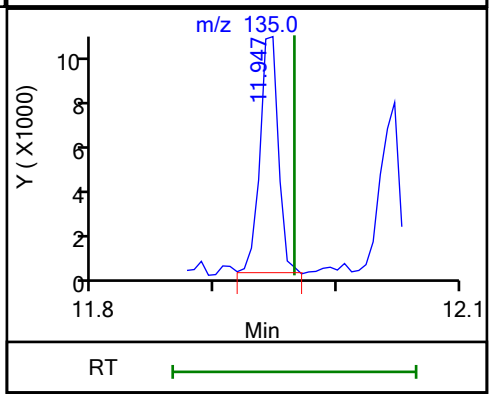
Processing Results











RT	Mass	Response	Amount
11.95	185.00	2126	19.572008
11.94	63.00	34826	
11.95	135.00	10583	

Reviewer: KDZ4, 10-Aug-2023 12:20:59 -04:00:00 (UTC)

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

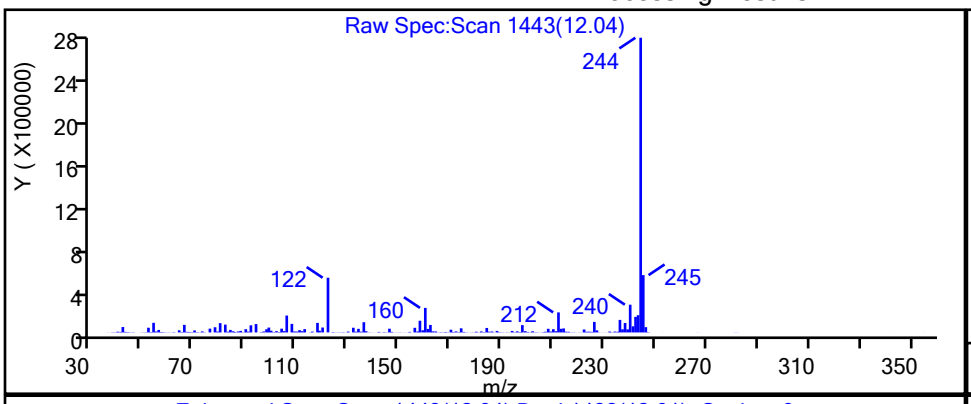
User Disabled Compound Report

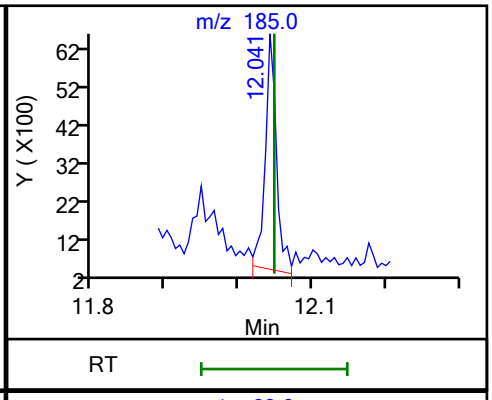
Eurofins Cleveland

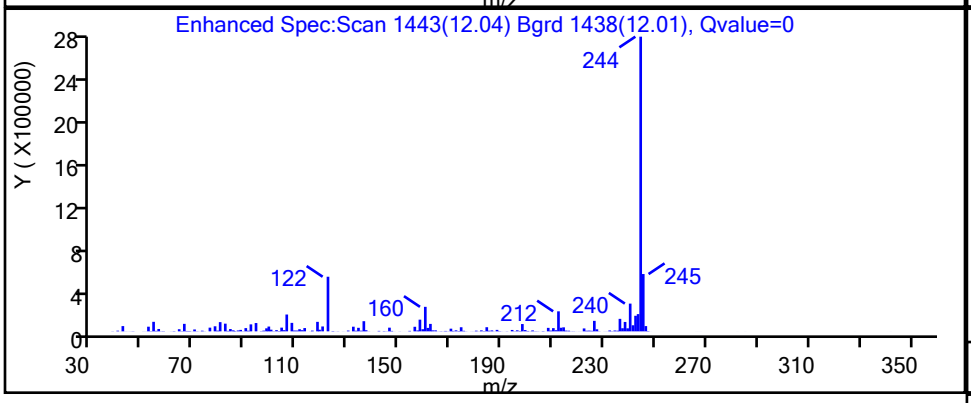
Data File:	\\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\19.D				
Injection Date:	09-Aug-2023 14:34:30	Instrument ID:	A4AG2		
Lims ID:	240-189273-J-4-A MSD				
Client ID:	16WC1A				
Operator ID:		ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

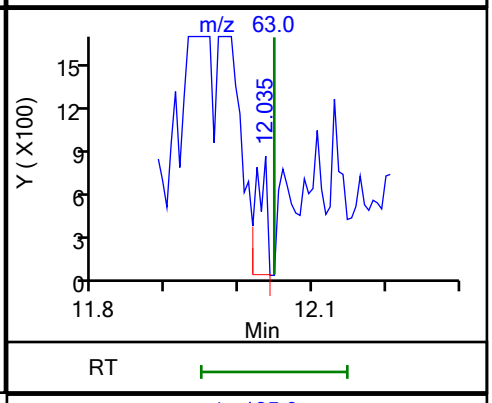
163 Aramite Peak 2, CAS: STL00691

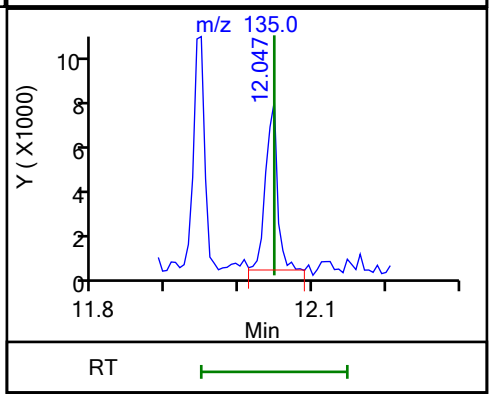
Processing Results











RT	Mass	Response	Amount
12.04	185.00	6657	32.194709
12.04	63.00	856	
12.05	135.00	8225	

Reviewer: KDZ4, 10-Aug-2023 12:21:01 -04:00:00 (UTC)

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

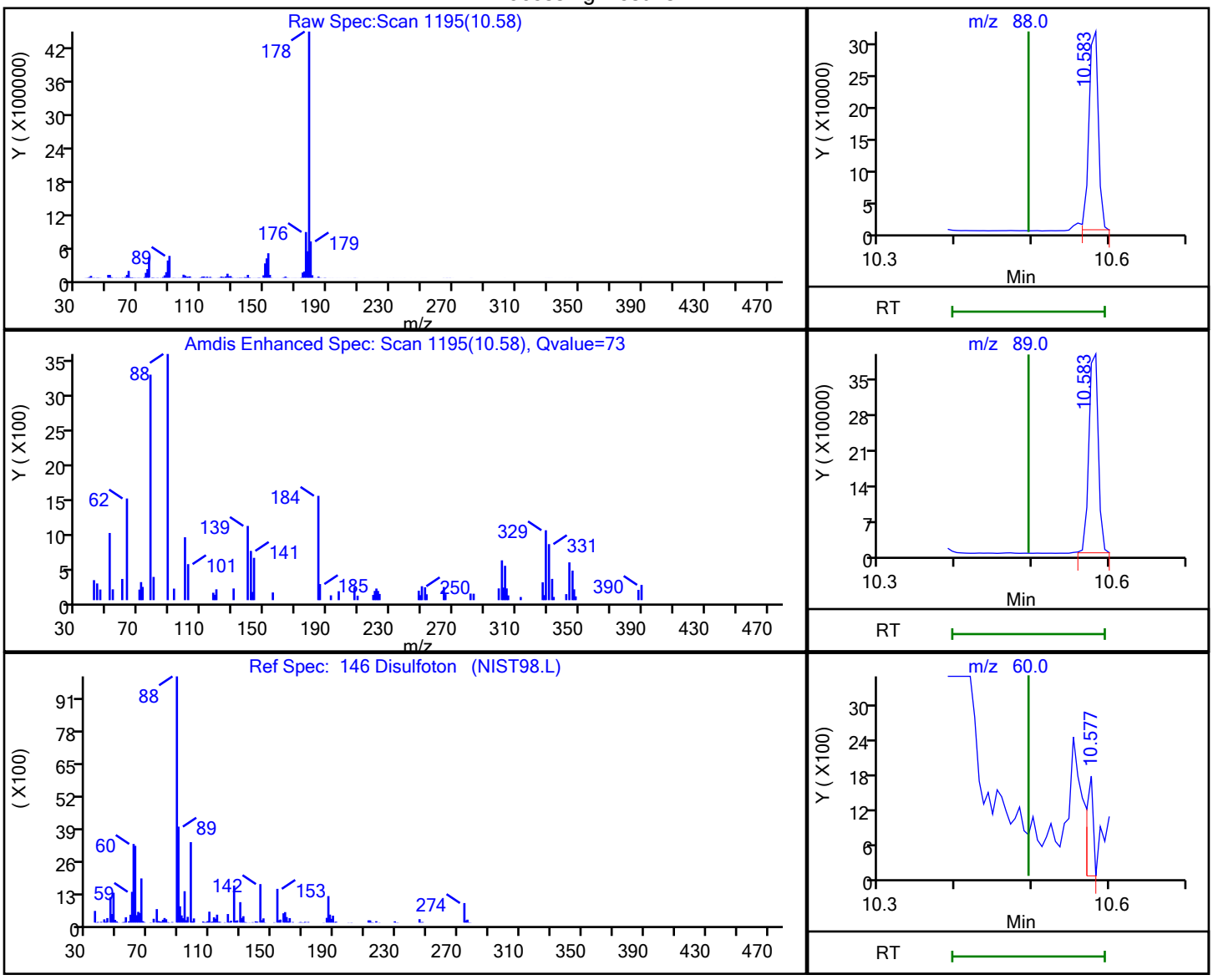
User Disabled Compound Report

Eurofins Cleveland

Data File:	\\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\19.D				
Injection Date:	09-Aug-2023 14:34:30	Instrument ID:	A4AG2		
Lims ID:	240-189273-J-4-A MSD				
Client ID:	16WC1A				
Operator ID:		ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

146 Disulfoton, CAS: 298-04-4

Processing Results



RT	Mass	Response	Amount
10.58	88.00	266227	247.7865
10.58	89.00	338306	
10.58	60.00	1008	

Reviewer: KDZ4, 10-Aug-2023 12:20:53 -04:00:00 (UTC)

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

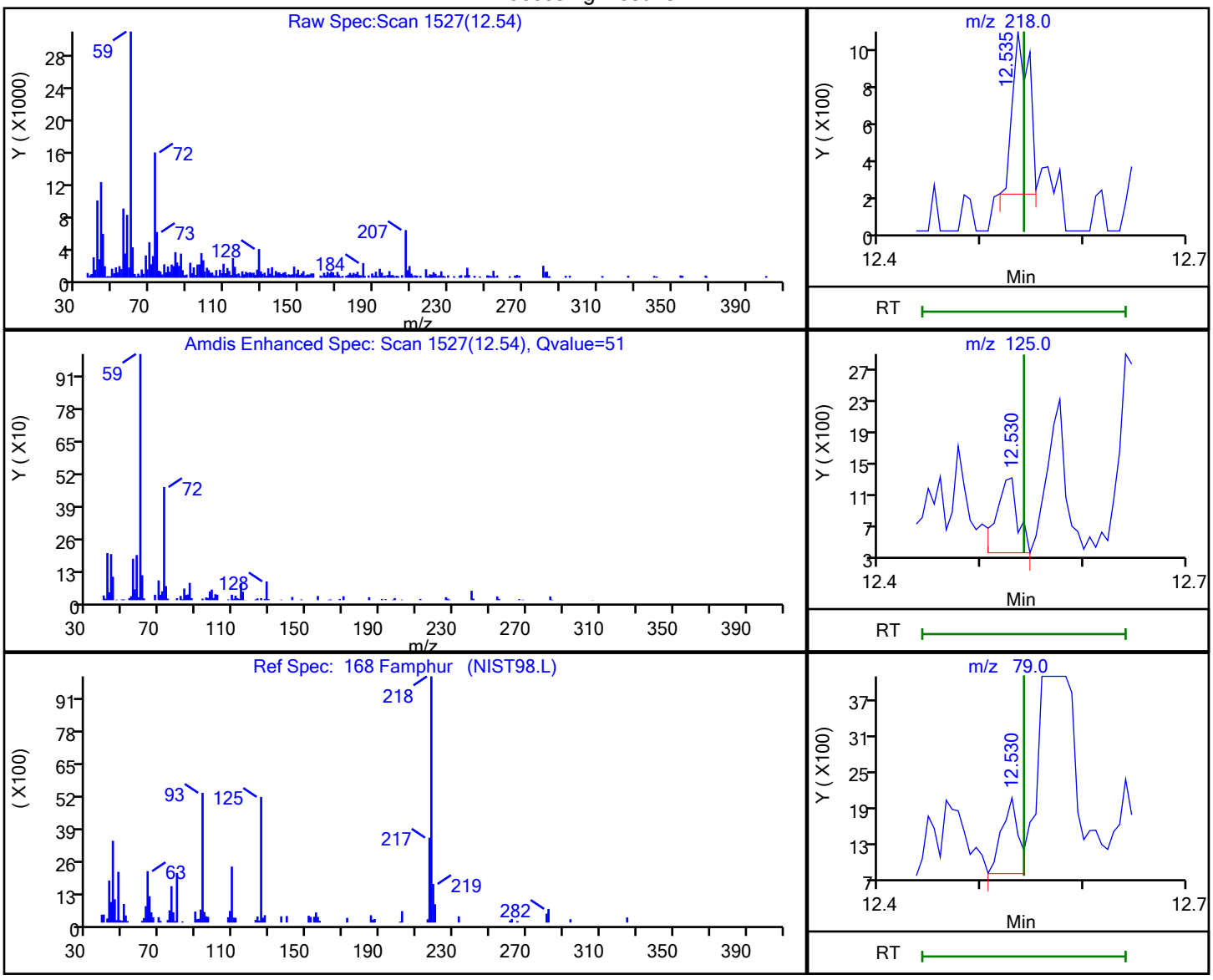
User Disabled Compound Report

Eurofins Cleveland

Data File:	\\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\19.D				
Injection Date:	09-Aug-2023 14:34:30	Instrument ID:	A4AG2		
Lims ID:	240-189273-J-4-A MSD				
Client ID:	16WC1A				
Operator ID:		ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

168 Famphur, CAS: 52-85-7

Processing Results



RT	Mass	Response	Amount
12.54	218.00	961	2.929784
12.53	125.00	1381	
12.53	79.00	1416	

Reviewer: KDZ4, 10-Aug-2023 12:21:04 -04:00:00 (UTC)

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

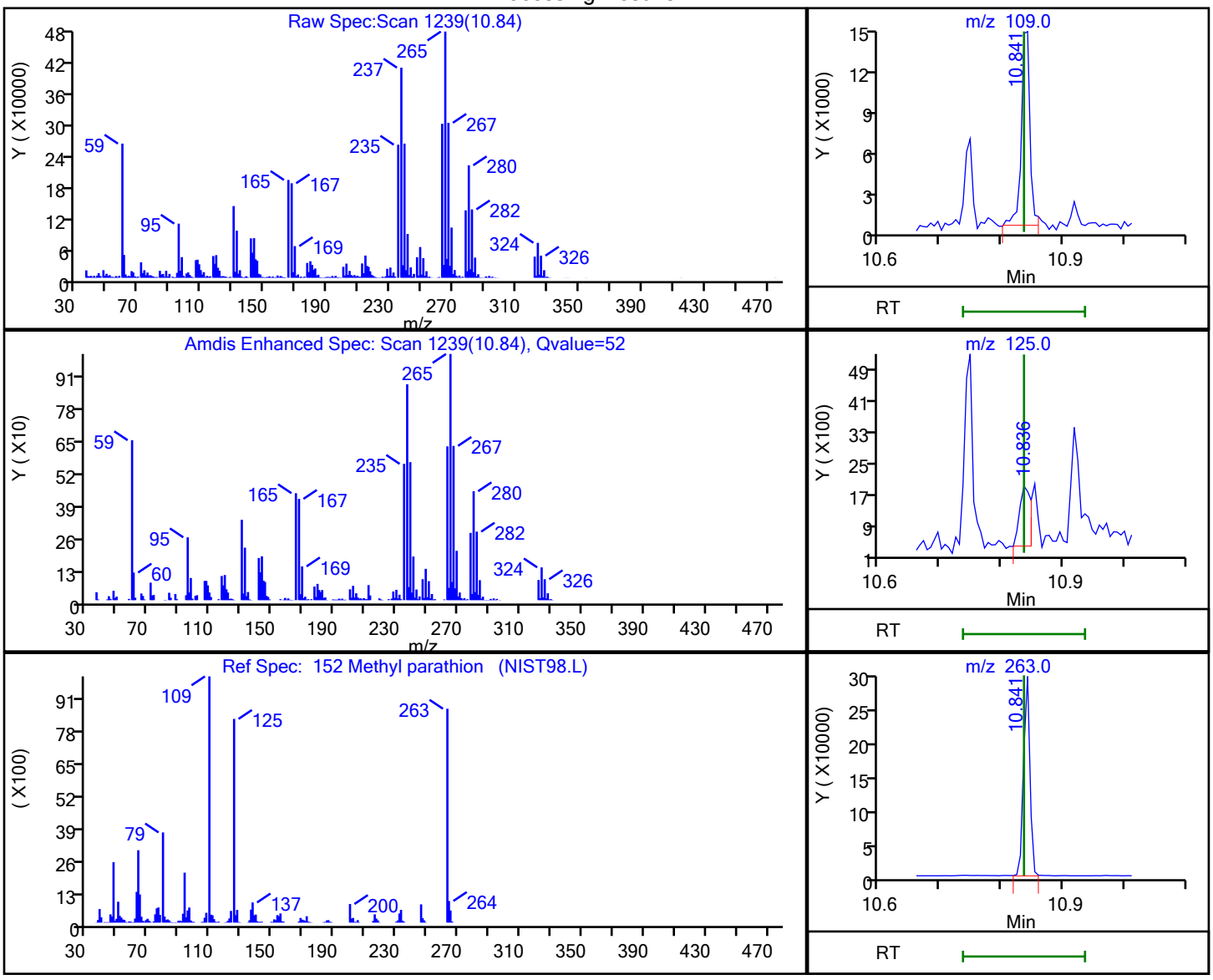
User Disabled Compound Report

Eurofins Cleveland

Data File:	\\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\19.D				
Injection Date:	09-Aug-2023 14:34:30	Instrument ID:	A4AG2		
Lims ID:	240-189273-J-4-A MSD				
Client ID:	16WC1A				
Operator ID:		ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

152 Methyl parathion, CAS: 298-00-0

Processing Results



RT	Mass	Response	Amount
10.84	109.00	13919	57.364973
10.84	125.00	1962	
10.84	263.00	218269	

Reviewer: KDZ4, 10-Aug-2023 12:20:54 -04:00:00 (UTC)

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

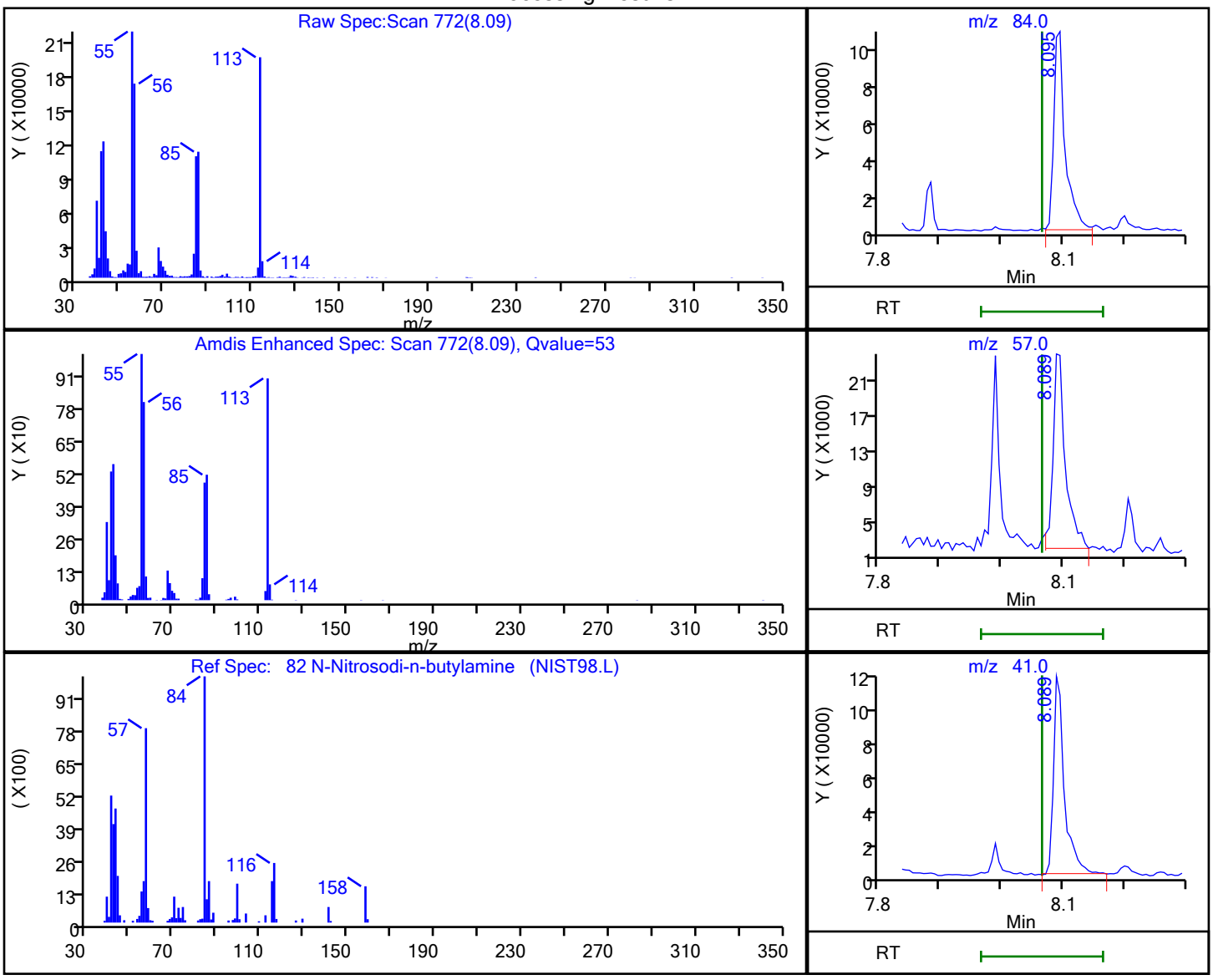
User Disabled Compound Report

Eurofins Cleveland

Data File:	\\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\19.D				
Injection Date:	09-Aug-2023 14:34:30	Instrument ID:	A4AG2		
Lims ID:	240-189273-J-4-A MSD				
Client ID:	16WC1A				
Operator ID:		ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

82 N-Nitrosodi-n-butylamine, CAS: 924-16-3

Processing Results



RT	Mass	Response	Amount
8.09	84.00	132827	211.2809
8.09	57.00	30396	
8.09	41.00	146674	

Reviewer: KDZ4, 10-Aug-2023 12:20:36 -04:00:00 (UTC)

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

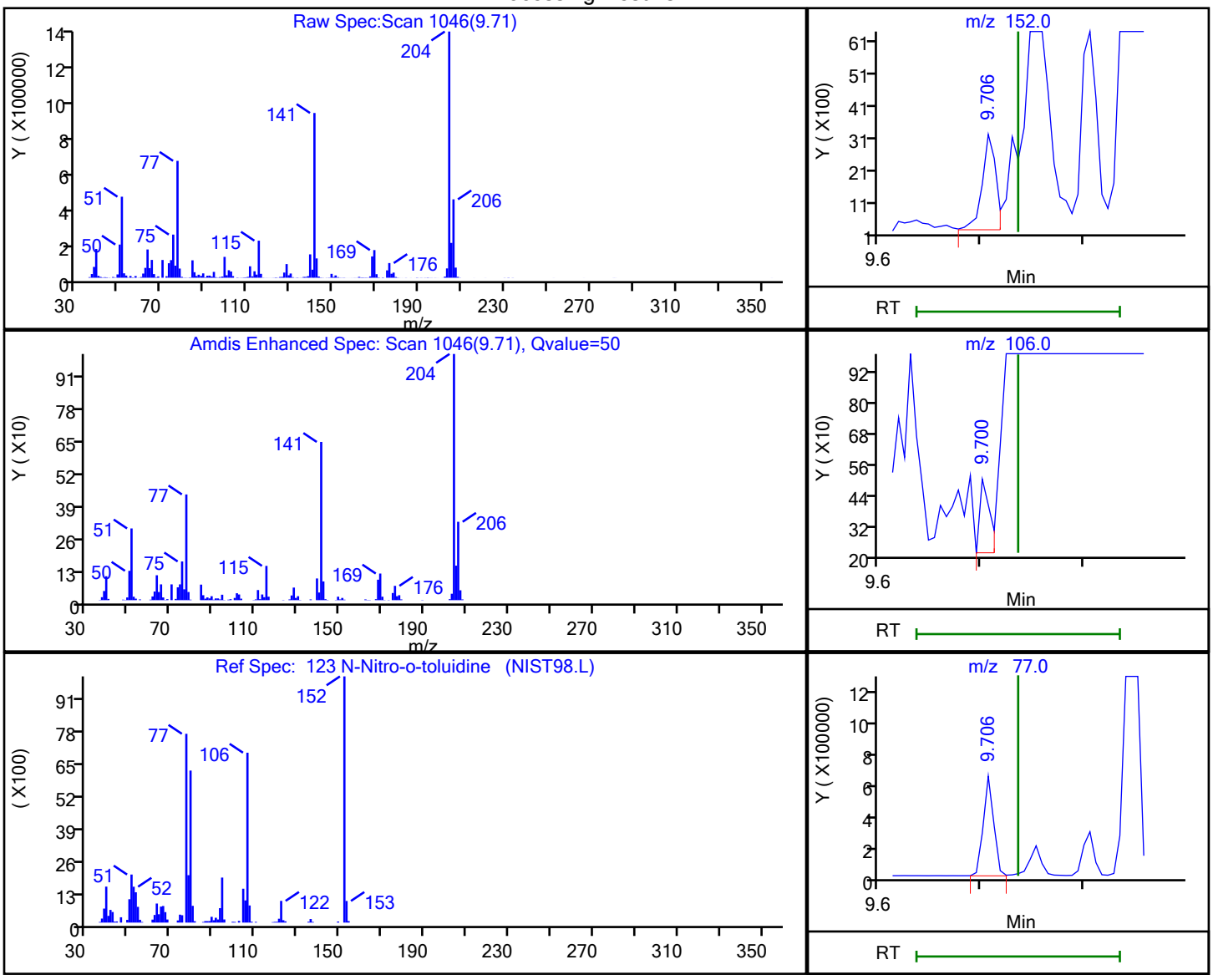
User Disabled Compound Report

Eurofins Cleveland

Data File:	\\chromfs\Canton\ChromData\A4AG2\20230809-132248.b\19.D				
Injection Date:	09-Aug-2023 14:34:30	Instrument ID:	A4AG2		
Lims ID:	240-189273-J-4-A MSD				
Client ID:	16WC1A				
Operator ID:		ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	LVI AG2 8270	Limit Group:	MSS 8270D ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

123 N-Nitro-o-toluidine, CAS: 99-55-8

Processing Results



RT	Mass	Response	Amount
9.71	152.00	2687	5.230010
9.70	106.00	201	
9.71	77.00	455705	

Reviewer: KDZ4, 10-Aug-2023 12:20:45 -04:00:00 (UTC)

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

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Instrument ID: A4AG2 Start Date: 07/26/2023 08:17

Analysis Batch Number: 581832 End Date: 07/26/2023 19:20

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 240-581832/1		07/26/2023 08:17	1	DFTPP.D	RXI-5SILMS/IIG 0.25(mm)
STD6 240-581832/2 ICIS		07/26/2023 08:38	1	CCV L1LVI.D	RXI-5SILMS/IIG 0.25(mm)
STD5 240-581832/3 IC		07/26/2023 09:05	1	CCV L2LVI.D	RXI-5SILMS/IIG 0.25(mm)
STD4 240-581832/4 IC		07/26/2023 09:28	1	CCV L3LVI.D	RXI-5SILMS/IIG 0.25(mm)
STD3 240-581832/5 IC		07/26/2023 09:51	1	5.D	RXI-5SILMS/IIG 0.25(mm)
STD2 240-581832/6 IC		07/26/2023 10:15	1	6.D	RXI-5SILMS/IIG 0.25(mm)
STD1 240-581832/7 IC		07/26/2023 10:38	1	7.D	RXI-5SILMS/IIG 0.25(mm)
STD7 240-581832/8 IC		07/26/2023 11:01	1	8.D	RXI-5SILMS/IIG 0.25(mm)
STD8 240-581832/9 IC		07/26/2023 11:24	1	9.D	RXI-5SILMS/IIG 0.25(mm)
STD9 240-581832/10 IC		07/26/2023 11:48	1	10.D	RXI-5SILMS/IIG 0.25(mm)
ICV 240-581832/11		07/26/2023 12:11	1	11.D	RXI-5SILMS/IIG 0.25(mm)
ZZZZZ		07/26/2023 12:43	1		RXI-5SILMS/IIG 0.25(mm)
ZZZZZ		07/26/2023 13:06	1		RXI-5SILMS/IIG 0.25(mm)
ZZZZZ		07/26/2023 13:30	1		RXI-5SILMS/IIG 0.25(mm)
ZZZZZ		07/26/2023 13:53	1		RXI-5SILMS/IIG 0.25(mm)
ZZZZZ		07/26/2023 14:17	20		RXI-5SILMS/IIG 0.25(mm)
ZZZZZ		07/26/2023 15:03	5		RXI-5SILMS/IIG 0.25(mm)
ZZZZZ		07/26/2023 15:27	1		RXI-5SILMS/IIG 0.25(mm)
ZZZZZ		07/26/2023 15:50	1		RXI-5SILMS/IIG 0.25(mm)
ZZZZZ		07/26/2023 16:13	1		RXI-5SILMS/IIG 0.25(mm)
ZZZZZ		07/26/2023 16:37	1		RXI-5SILMS/IIG 0.25(mm)
ZZZZZ		07/26/2023 17:00	1		RXI-5SILMS/IIG 0.25(mm)
ZZZZZ		07/26/2023 17:23	1		RXI-5SILMS/IIG 0.25(mm)
ZZZZZ		07/26/2023 17:46	1		RXI-5SILMS/IIG 0.25(mm)
ZZZZZ		07/26/2023 18:10	1		RXI-5SILMS/IIG 0.25(mm)
ZZZZZ		07/26/2023 18:33	1		RXI-5SILMS/IIG 0.25(mm)
ZZZZZ		07/26/2023 18:56	1		RXI-5SILMS/IIG 0.25(mm)
ZZZZZ		07/26/2023 19:20	1		RXI-5SILMS/IIG 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Instrument ID: A4AG2 Start Date: 07/27/2023 08:41

Analysis Batch Number: 581979 End Date: 07/27/2023 20:21

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 240-581979/1		07/27/2023 08:41	1	DFTPP.D	RXI-5SILMS/IIG 0.25(mm)
STD5 240-581979/3 IC		07/27/2023 09:28	1	CCV L2LVI.D	RXI-5SILMS/IIG 0.25(mm)
STD4 240-581979/4 IC		07/27/2023 09:51	1	CCV L3LVI.D	RXI-5SILMS/IIG 0.25(mm)
STD3 240-581979/5 IC		07/27/2023 10:14	1	5.D	RXI-5SILMS/IIG 0.25(mm)
STD2 240-581979/6 IC		07/27/2023 10:38	1	6.D	RXI-5SILMS/IIG 0.25(mm)
STD6 240-581979/7 IC		07/27/2023 11:01	1	7.D	RXI-5SILMS/IIG 0.25(mm)
STD7 240-581979/8 IC		07/27/2023 11:24	1	8.D	RXI-5SILMS/IIG 0.25(mm)
STD8 240-581979/9 IC		07/27/2023 11:48	1	9.D	RXI-5SILMS/IIG 0.25(mm)
STD9 240-581979/10 IC		07/27/2023 12:11	1	10.D	RXI-5SILMS/IIG 0.25(mm)
ICV 240-581979/11		07/27/2023 12:34	1	11.D	RXI-5SILMS/IIG 0.25(mm)
CCV 240-581979/12 CCVIS		07/27/2023 12:57	1		RXI-5SILMS/IIG 0.25(mm)
LODV 240-581979/13		07/27/2023 13:46	1		RXI-5SILMS/IIG 0.25(mm)
ZZZZZ		07/27/2023 14:09	1		RXI-5SILMS/IIG 0.25(mm)
ZZZZZ		07/27/2023 14:32	1		RXI-5SILMS/IIG 0.25(mm)
ZZZZZ		07/27/2023 14:55	1		RXI-5SILMS/IIG 0.25(mm)
ZZZZZ		07/27/2023 15:19	1		RXI-5SILMS/IIG 0.25(mm)
ZZZZZ		07/27/2023 15:42	1		RXI-5SILMS/IIG 0.25(mm)
ZZZZZ		07/27/2023 16:28	1		RXI-5SILMS/IIG 0.25(mm)
ZZZZZ		07/27/2023 16:52	1		RXI-5SILMS/IIG 0.25(mm)
ZZZZZ		07/27/2023 17:15	1		RXI-5SILMS/IIG 0.25(mm)
ZZZZZ		07/27/2023 17:38	1		RXI-5SILMS/IIG 0.25(mm)
ZZZZZ		07/27/2023 18:01	1		RXI-5SILMS/IIG 0.25(mm)
ZZZZZ		07/27/2023 18:25	1		RXI-5SILMS/IIG 0.25(mm)
ZZZZZ		07/27/2023 18:48	1		RXI-5SILMS/IIG 0.25(mm)
ZZZZZ		07/27/2023 19:11	1		RXI-5SILMS/IIG 0.25(mm)
ZZZZZ		07/27/2023 19:35	1		RXI-5SILMS/IIG 0.25(mm)
ZZZZZ		07/27/2023 19:58	1		RXI-5SILMS/IIG 0.25(mm)
ZZZZZ		07/27/2023 20:21	1		RXI-5SILMS/IIG 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Instrument ID: A4AG2 Start Date: 08/09/2023 07:19

Analysis Batch Number: 583312 End Date: 08/09/2023 19:12

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 240-583312/1		08/09/2023 07:19	1	DFTPP.D	RXI-5SILMS/IIG 0.25(mm)
CCV 240-583312/2 CCVIS		08/09/2023 07:43	1	CCV L1LVI.D	RXI-5SILMS/IIG 0.25(mm)
CCV 240-583312/3		08/09/2023 08:13	1	CCV L2LVI.D	RXI-5SILMS/IIG 0.25(mm)
LODV 240-583312/4		08/09/2023 08:40	1		RXI-5SILMS/IIG 0.25(mm)
LODV 240-583312/5		08/09/2023 09:03	1		RXI-5SILMS/IIG 0.25(mm)
LODV 240-583312/6		08/09/2023 09:26	1		RXI-5SILMS/IIG 0.25(mm)
MB 240-582476/10-A		08/09/2023 09:49	1	7.D	RXI-5SILMS/IIG 0.25(mm)
LCS 240-582476/11-A		08/09/2023 10:19	1	8.D	RXI-5SILMS/IIG 0.25(mm)
LCS 240-582476/12-A		08/09/2023 10:42	1	9.D	RXI-5SILMS/IIG 0.25(mm)
ZZZZZ		08/09/2023 11:06	1		RXI-5SILMS/IIG 0.25(mm)
240-189273-1	16C1	08/09/2023 11:52	1	12.D	RXI-5SILMS/IIG 0.25(mm)
240-189273-2	16MW8	08/09/2023 12:15	1	13.D	RXI-5SILMS/IIG 0.25(mm)
240-189273-3	16MW9	08/09/2023 12:38	1	14.D	RXI-5SILMS/IIG 0.25(mm)
240-189273-5	16WDUP	08/09/2023 13:01	1	15.D	RXI-5SILMS/IIG 0.25(mm)
240-189273-6	16WC1B	08/09/2023 13:25	1	16.D	RXI-5SILMS/IIG 0.25(mm)
240-189273-4	16WC1A	08/09/2023 13:48	1	17.D	RXI-5SILMS/IIG 0.25(mm)
240-189273-4 MS	16WC1A MS	08/09/2023 14:11	1	18.D	RXI-5SILMS/IIG 0.25(mm)
240-189273-4 MSD	16WC1A MSD	08/09/2023 14:34	1	19.D	RXI-5SILMS/IIG 0.25(mm)
ZZZZZ		08/09/2023 14:57	1		RXI-5SILMS/IIG 0.25(mm)
ZZZZZ		08/09/2023 15:20	1		RXI-5SILMS/IIG 0.25(mm)
ZZZZZ		08/09/2023 15:44	1		RXI-5SILMS/IIG 0.25(mm)
ZZZZZ		08/09/2023 16:07	1		RXI-5SILMS/IIG 0.25(mm)
ZZZZZ		08/09/2023 16:30	1		RXI-5SILMS/IIG 0.25(mm)
ZZZZZ		08/09/2023 16:53	1		RXI-5SILMS/IIG 0.25(mm)
ZZZZZ		08/09/2023 17:16	1		RXI-5SILMS/IIG 0.25(mm)
ZZZZZ		08/09/2023 17:39	6.667		RXI-5SILMS/IIG 0.25(mm)
ZZZZZ		08/09/2023 18:03	1		RXI-5SILMS/IIG 0.25(mm)
ZZZZZ		08/09/2023 18:26	1		RXI-5SILMS/IIG 0.25(mm)
ZZZZZ		08/09/2023 18:49	1		RXI-5SILMS/IIG 0.25(mm)
ZZZZZ		08/09/2023 19:12	10		RXI-5SILMS/IIG 0.25(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Cleveland Job No.: 240-189273-1

SDG No.:

Batch Number: 581832 Batch Start Date: 07/26/23 08:17 Batch Analyst: Ulman, Mark

Batch Method: 8270E Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	CalcMsg	SMDFTPPW 00025	SMLIST1 L1+ W 00015	SMLIST1 L2 W 00021	SMLIST1 L3 W 00021
DFTPP 240-581832/1		8270E		1 mL	Perform Calculation left blank	0.1 mL			
STD6 240-581832/2 ICIS		8270E		1 mL	Perform Calculation left blank				
STD5 240-581832/3 IC		8270E		1 mL	Perform Calculation left blank				
STD4 240-581832/4 IC		8270E		1 mL	Perform Calculation left blank				
STD3 240-581832/5 IC		8270E		1 mL	Perform Calculation left blank				0.1 mL
STD2 240-581832/6 IC		8270E		1 mL	Perform Calculation left blank			0.1 mL	
STD1 240-581832/7 IC		8270E		1 mL	Perform Calculation left blank		0.1 mL		
STD7 240-581832/8 IC		8270E		1 mL	Perform Calculation left blank				
STD8 240-581832/9 IC		8270E		1 mL	Perform Calculation left blank				
STD9 240-581832/10 IC		8270E		1 mL	Perform Calculation left blank				
ICV 240-581832/11		8270E		1 mL	Perform Calculation left blank				

Lab Sample ID	Client Sample ID	Method Chain	Basis	SMLIST1 L4 W 00021	SMLIST1 L5 W 00021	SMLIST1 L6 W 00021	SMLIST1 L7 W 00021	SMLIST1 L8 W 00021	SMLIST1 L9 W 00021
DFTPP 240-581832/1		8270E							
STD6 240-581832/2 ICIS		8270E				0.1 mL			

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 Cleveland Job No.: 240-189273-1

SDG No.:

Batch Number: 581832 Batch Start Date: 07/26/23 08:17 Batch Analyst: Ulman, Mark

Batch Method: 8270E Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	SMLIST1 L4 W 00021	SMLIST1 L5 W 00021	SMLIST1 L6 W 00021	SMLIST1 L7 W 00021	SMLIST1 L8 W 00021	SMLIST1 L9 W 00021
STD5 240-581832/3 IC		8270E			0.1 mL				
STD4 240-581832/4 IC		8270E		0.1 mL					
STD3 240-581832/5 IC		8270E							
STD2 240-581832/6 IC		8270E							
STD1 240-581832/7 IC		8270E							
STD7 240-581832/8 IC		8270E					0.1 mL		
STD8 240-581832/9 IC		8270E						0.1 mL	
STD9 240-581832/10 IC		8270E							0.1 mL
ICV 240-581832/11		8270E							

Lab Sample ID	Client Sample ID	Method Chain	Basis	SMLIST1 SS W 00021					
DFTPP 240-581832/1		8270E							
STD6 240-581832/2 ICIS		8270E							
STD5 240-581832/3 IC		8270E							
STD4 240-581832/4 IC		8270E							
STD3 240-581832/5 IC		8270E							
STD2 240-581832/6 IC		8270E							
STD1 240-581832/7 IC		8270E							
STD7 240-581832/8 IC		8270E							
STD8 240-581832/9 IC		8270E							

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 Cleveland Job No.: 240-189273-1

SDG No.:

Batch Number: 581832 Batch Start Date: 07/26/23 08:17 Batch Analyst: Ulman, Mark

Batch Method: 8270E Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	SMLIST1 SS W 00021					
STD9 240-581832/10 IC		8270E							
ICV 240-581832/11		8270E		0.1 mL					

Batch Notes	
Dilution Solution ID	6178525

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 Cleveland Job No.: 240-189273-1

SDG No.:

Batch Number: 581979 Batch Start Date: 07/27/23 08:41 Batch Analyst: Ulman, Mark

Batch Method: 8270E Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	CalcMsg	SMDFTPPW 00025	SMLIST2 L2 W 00031	SMLIST2 L3 W 00030	SMLIST2 L4 W 00030
DFTPP 240-581979/1		8270E		1 mL	Perform Calculation left blank	0.1 mL			
STD5 240-581979/3 IC		8270E		1 mL	Perform Calculation left blank				
STD4 240-581979/4 IC		8270E		1 mL	Perform Calculation left blank				0.1 mL
STD3 240-581979/5 IC		8270E		1 mL	Perform Calculation left blank			0.1 mL	
STD2 240-581979/6 IC		8270E		1 mL	Perform Calculation left blank		0.1 mL		
STD6 240-581979/7 IC		8270E		1 mL	Perform Calculation left blank				
STD7 240-581979/8 IC		8270E		1 mL	Perform Calculation left blank				
STD8 240-581979/9 IC		8270E		1 mL	Perform Calculation left blank				
STD9 240-581979/10 IC		8270E		1 mL	Perform Calculation left blank				
ICV 240-581979/11		8270E		1 mL	Perform Calculation left blank				

Lab Sample ID	Client Sample ID	Method Chain	Basis	SMLIST2 L5 W 00030	SMLIST2 L6 W 00031	SMLIST2 L7 W 00030	SMLIST2 L8 W 00030	SMLIST2 L9 W 00030	SMLIST2 SS W 00031
DFTPP 240-581979/1		8270E							
STD5 240-581979/3 IC		8270E		0.1 mL					
STD4 240-581979/4 IC		8270E							
STD3 240-581979/5 IC		8270E							

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 Cleveland Job No.: 240-189273-1

SDG No.:

Batch Number: 581979 Batch Start Date: 07/27/23 08:41 Batch Analyst: Ulman, Mark

Batch Method: 8270E Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	SMLIST2 L5 W 00030	SMLIST2 L6 W 00031	SMLIST2 L7 W 00030	SMLIST2 L8 W 00030	SMLIST2 L9 W 00030	SMLIST2 SS W 00031
STD2 240-581979/6 IC		8270E							
STD6 240-581979/7 IC		8270E			0.1 mL				
STD7 240-581979/8 IC		8270E				0.1 mL			
STD8 240-581979/9 IC		8270E					0.1 mL		
STD9 240-581979/10 IC		8270E						0.1 mL	
ICV 240-581979/11		8270E							0.1 mL

Batch Notes	
Dilution Solution ID	6178525

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 Cleveland Job No.: 240-189273-1

SDG No.:

Batch Number: 582476 Batch Start Date: 08/01/23 08:59 Batch Analyst: Krupp, Laura

Batch Method: 3510C LVI Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH	SecondAdjustpH	exBENZALDEHYD 00086
240-189273-E-1	16C1	3510C LVI, 8270E	T	270 mL	5 mL	7 SU	12 SU	2 SU	
240-189273-E-2	16MW8	3510C LVI, 8270E	T	270 mL	5 mL	5 SU	12 SU	2 SU	
240-189273-E-3	16MW9	3510C LVI, 8270E	T	270 mL	5 mL	7 SU	12 SU	2 SU	
240-189273-K-4	16WC1A	3510C LVI, 8270E	T	270 mL	5 mL	7 SU	12 SU	2 SU	
240-189273-L-4 MS	16WC1A	3510C LVI, 8270E	T	270 mL	5 mL	7 SU	12 SU	2 SU	0.2 mL
240-189273-J-4 MSD	16WC1A	3510C LVI, 8270E	T	270 mL	5 mL	7 SU	12 SU	2 SU	0.2 mL
240-189273-D-5	16WDUP	3510C LVI, 8270E	T	270 mL	5 mL	7 SU	12 SU	2 SU	
240-189273-D-6	16WC1B	3510C LVI, 8270E	T	270 mL	5 mL	7 SU	12 SU	2 SU	
MB 240-582476/10		3510C LVI, 8270E		250 mL	5 mL	5 SU	12 SU	2 SU	
LCS 240-582476/11		3510C LVI, 8270E		250 mL	5 mL	5 SU	12 SU	2 SU	0.2 mL
LCS 240-582476/12		3510C LVI, 8270E		250 mL	5 mL	5 SU	12 SU	2 SU	

Lab Sample ID	Client Sample ID	Method Chain	Basis	exBNASPIKE 00127	exBNASURR W 00112	EXLIST2spike 00037	AnalysisComment		
240-189273-E-1	16C1	3510C LVI, 8270E	T		0.4 mL				
240-189273-E-2	16MW8	3510C LVI, 8270E	T		0.4 mL				
240-189273-E-3	16MW9	3510C LVI, 8270E	T		0.4 mL				
240-189273-K-4	16WC1A	3510C LVI, 8270E	T		0.4 mL				
240-189273-L-4 MS	16WC1A	3510C LVI, 8270E	T	0.4 mL	0.4 mL		possible double surrogate		
240-189273-J-4 MSD	16WC1A	3510C LVI, 8270E	T	0.4 mL	0.4 mL				
240-189273-D-5	16WDUP	3510C LVI, 8270E	T		0.4 mL				
240-189273-D-6	16WC1B	3510C LVI, 8270E	T		0.4 mL				

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 Cleveland Job No.: 240-189273-1

SDG No.:

Batch Number: 582476 Batch Start Date: 08/01/23 08:59 Batch Analyst: Krupp, Laura

Batch Method: 3510C LVI Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	exBNASPIKE 00127	exBNASURR W 00112	EXLIST2spike 00037	AnalysisComment		
MB 240-582476/10		3510C LVI, 8270E			0.4 mL				
LCS 240-582476/11		3510C LVI, 8270E		0.4 mL	0.4 mL		list 1		
LCS 240-582476/12		3510C LVI, 8270E			0.4 mL	0.4 mL	list 2		

Batch Notes	
pH Indicator ID	6394025 6394035
Pipette/Syringe/Dispenser ID	9 10
Analyst ID - Extraction	LAURA KRUPP
Analyst ID - Spike Analyst	LAURA KRUPP
Acid Used for pH Adjustment ID	5533575
Base Used to Adjust pH ID	6386171
Prep Solvent ID	6416557
Na2SO4 ID	6394023
Analyst ID - Concentration	BRITTANY BLYTHE

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

CHAIN OF CUSTODY RECORD

Laboratory: Eurofins - Cleveland/TestAmerica CANTON, 180 South Van Buren Ave, **Barberton**, OH 44203. Opal Johnson, PM. 330-497-9396

Client: 0 **Attn:** 0 **Address:** 0 0 **Phone:** 0 **Fax:** 0 **Fax:** 0	**Consultant:** TRC Engineers Inc (formerly Draper Aden Assoc) **Attn:** Janet C. Frazier **Address:** 2200 South Main Street Suite 1 Blacksburg, Virginia 24060 **Phone:** (540) 552-0444 **Fax:** (540) 552-0291	**Sample Site:** RFAAP, Radford, Virginia **Location:** HWMU16 **Event:** 3Q 2023 Annual GW Monitoring Event **DAA JN:** 547076 **Lab JN:**	Project Specific (PS) QC: YES as indicated Sample Collection for Project Complete? YES UPS: 1Z 237 301 01 9265 7090 **Carrier:** **Tracking Number:**

Box 1: Matrix
SW Surface Water; GW Groundwater; L Leachate; S Soil; T Trip Blank; E Equipment Blank; P Product; O Other

Box 2: Preservative
A HCL; B HNO_3; C H_2SO_4; D $Na_2S_2O_3$; E NaOH; F ZnAc; G Other (Specify); H None

Box 3: Filtered/Unfiltered
F Filtered; U Unfiltered

Box 4: Sample Type
G Grab; C Composite

Box 5: Sample Container Type
P Plastic; AG Amber Glass; V VOA; CG Clear Glass

Invoice
Copy to Consultant: YES
Bill: CLIENT OTHER
Preserved and shipped on ice: YES

Box 4 - Sample Type							G	G						
Box 3 - Filtered/Unfiltered							U	U						
Required pH of Sample							<2							
Box 2 - Preservative							A	H						
Box 5 - Sample Container Type							3- 40 ml VOA	2-250mL AG						
Sample ID	Date: 2023	Time	Box 1: Matrix	Number of Bottles			8260D/5030C - low level (volatiles)	8270E/3510C (Semivolatiles)						
16C1	7/27	1245	GW	5			X	X						
16MW8	7/26	1005	GW	5			X	X						
16MW9	7/27	1125	GW	5			X	X						
16WC1A	7/27	0955	GW	15			X	X						
16WDUP	7/27	1020	GW	5			X	X						
16WC1B	7/26	1205	GW	5			X	X						

GENERAL NOTES:
1. Report results to detection limit, with J flags, for italicized wells.
2. Report results at or greater than QL for non-italicized wells.
3. VELAP accreditation required.
4. FULL/Comprehensive Deliverable with EDD and ERIS EDD.
5. See Atached target analytes. Report to these Permit Specified QLs and DLs.
Please extract 250 ml (8270) to avoid adjusted QL/MDL

Dive italic JVR 7-17-23

* Lab to report permit QL — Lab to adjust RL to QL for acrolein

*

USE FOR QC

240-189273 Chain of Custody

Clients Special Instructions:

Received by lab in Good Condition ____ Yes ____ No Custody Seal Intact ____ Yes ____ No Temperature upon arrival ____ Received on Ice ____ Yes ____ No
Describe problems, if any:

Sampler Name (Print): Ken Coddington	Date: 7/26/23	#1 Relinquished by (Signature):	Date: 7/27/23	#2 Relinquished by (Signature):	Date:	Sample Storage
Sampler Signature:	Time: 0700	Company Name: DAA/TRC	Time: 1700	Company Name:	Time:	Time Requested:
Sampler Name (Print): Alexa Prater	Date: 7/26/23	#1 Received by (Signature):	Date: 07-28-23	#2 Received by (Signature):	Date:	30 DYS ORG/8 MTHS INORG
Sampler Signature:	Time: 0700	Company Name: EETNC	Time: 940	Company Name:	Time:	

MDL/QL ✓ JVR 7-18-23
VELAP ✓ # 12331 ex 9-14-23

JVR 7/27/23

1/9

8/4/2023 10:47 AM

Eurofins – Cleveland Sample Receipt Form/Narrative Login # : 189273
Barberton Facility

Client TRC Engineers Inc Site Name _____ Cooler unpacked by: Leah M. Smith

Cooler Received on 07-28-2023 Opened on 07-28-2023

FedEx: 1st Grd Exp (UPS) FAS Waypoint Client Drop Off Eurofins Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

Eurofins Cooler # EC Foam Box Client Cooler Box Other _____

Packing material used: (Bubble Wrap) Foam Plastic Bag None Other _____

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN # 18 (CF -0.7 °C) Observed Cooler Temp. 5.2 °C Corrected Cooler Temp. 4.5 °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity_____	(Yes)	No
-Were the seals on the outside of the cooler(s) signed & dated?	(Yes)	No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	(No)
-Were tamper/custody seals intact and uncompromised?	Yes	No (NA)
3. Shippers' packing slip attached to the cooler(s)?	(Yes)	No
4. Did custody papers accompany the sample(s)?	(Yes)	No
5. Were the custody papers relinquished & signed in the appropriate place?	(Yes)	No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	(Yes)	No
7. Did all bottles arrive in good condition (Unbroken)?	(Yes)	No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC?	(Yes)	No
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp(Y(N)?		
10. Were correct bottle(s) used for the test(s) indicated?	(Yes)	No
11. Sufficient quantity received to perform indicated analyses?	(Yes)	No
12. Are these work share samples and all listed on the COC?	Yes	(No)
If yes, Questions 13-17 have been checked at the originating laboratory.		
13. Were all preserved sample(s) at the correct pH upon receipt?	Yes	No (NA) pH Strip Lot# HC312502
14. Were VOAs on the COC?	(Yes)	No
15. Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this.	Yes	(No) NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #_____	Yes	(No)
17. Was a LL Hg or Me Hg trip blank present? _____	Yes	(No)

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page

Samples processed by:

_____

_____

_____

_____

19. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____

VOA Sample Preservation - Date/Time VOAs Frozen: _____

7.23.2023

OPAL –
- adjust RL to perm.t QL for acrolein
- report to Perm.t QL and perm.t MDL.
- report only analytes on this List in blue highlight.

Janet Frazer
7/23/23

HAZARDOUS WASTE MANAGEMENT
POST-CLOSURE CARE PERMIT

ATTACHMENT 1

APPENDIX I

ANNUAL GROUNDWATER SAMPLING CONSTITUENT LIST

(APPENDIX IX 40 CFR PART 264)

APPENDIX IX METHOD/DETECTION LIMITS

Analyte	CAS Number	METHOD	PQL (ug/l)	MDL (ug/1)
1,1,1,2-Tetrachloroethane	630-20-6	8260	1	0.3
1,1,1 -Trichloroethane	71-55-6	8260	1	0.3
1,1,2,2-Tetrachloroethane	79-34-5	8260	1	0.3
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	8260	1	0.4
1,1,2-Trichloroethane	79-00-5	8260	1	0.3
1,1 -Dichloroethane	75-34-3	8260	1	0.3
1,1 -Dichloroethene	75-35-4	8260	1	0.3
1,2,3-Trichloropropane	96-18-4	8260	1	0.3
1,2,4,5-Tetrachlorobenzene	95-94-3	8270	10	2
1,2,4-Trichlorobenzene	120-82-1	8260	1	0.6
1,2,4-Trichlorobenzene (dup-8260)	120-82-1	8270	10	0.43
1,2-dibromo-3-chloropropane	96-12-8	8260	1	0.4
1,2-dibromoethane	106-93-4	8260	1	0.3
1,2-Dichlorobenzene	95-50-1	8260	1	0.4
1,2-Dichlorobenzene (dup 8260)	95-50-1	8270	10	0.48
1,2-Dichloroethane	107-06-2	8260	1	0.3
1,2-Dichloropropane	78-87-5	8260	1	0.4
1,3-Dichlorobenzene	541-73-1	8260	1	0.4
1,3-Dichlorobenzene (dup 8260)	541-73-1	8270	10	0.52
1,3-Dichloropropane	142-28-9	8260	1	0.4
1,3-Dinitrobenzene	99-65-0	8270	10	2.3
1,4-Dichlorobenzene	106-46-7	8260	1	0.4
1,4-Dichlorobenzene (dup 8260)	106-46-7	8270	10	0.37
1,4-Dioxane	123-91-1	8260	200	45.48
1,4-Napthoquinone	130-15-4	8270	10	3.0
1 -Naphthylamine	134-32-7	8270	10	3.0
2,3,4,6-Tetrachlorophenol	58-90-2	8270	10	1.8
2,4,5-Trichlorophenol	95-95-4	8270	10	2.0
2,4,6-Trichlorophenol	88-06-2	8270	10	1.8
2,4-Dichlorophenol	120-83-2	8270	10	1.59
2,4-Dimethylphenol	105-67-9	8270	10	3.0

Analyte	CAS Number	METHOD	PQL (ug/l)	MDL (ug/l)
2,4-Dinitrophenol	51-28-5	8270	10	6.2
2,4-Dinitrotoluene	121-14-2	8270	10	2.1
2,6-Dichlorophenol	87-65-0	8270	10	1.4
2,6-Dinitrotoluene	606-20-2	8270	10	2.1
2-Acetylaminofluorene	53-96-3	8270	10	3.0
2-Butanone	78-93-3	8260	10	1.7
2-Chloronaphthalene	91-58-7	8270	10	0.5
2-Chlorophenol	95-57-8	8270	10	1.0
2-Hexanone	591-78-6	8260	10	2.0
2-Methylnaphthalene	91-57-6	8270	10	0.29
2-Naphthylamine	91-59-8	8270	10	7.0
2-Nitroaniline	88-74-4	8270	10	1.0
2-Nitrophenol	88-75-5	8270	10	1.27
2-Picoline	109-06-8	8270	10	1.0
2-Propanol - 5 ml purge	67-63-0	8260	100	50
3,3 `-Dichlorobenzidine	91-94-1	8270	10	3.0
3,3 `-Dimethylbenzidine	119-93-7	8270	10	3.3
3-Methylcholanthrene	56-49-5	8270	10	1.0
3-Nitroaniline	99-09-2	8270	10	2.0
4,6-Dinitro-2-methylphenol	534-52-1	8270	10	3.0
4-Aminobiphenyl	92-67-1	8270	10	3.0
4-Bromophenyl phenyl ether	101-55-3	8270	10	0.56
4-Chloro-3-methylphenol	59-50-7	8270	10	1.0
4-Chloroaniline	106-47-8	8270	10	3.3
4-Chlorophenyl phenyl ether	7005-72-3	8270	10	0.6
4-Methyl-2-pentanone	108-10-1	8260	10	2.0
4-Nitroaniline	106-44-5	8270	10	1.5
4-Nitrophenol	100-01-6	8270	10	3.0
4-Nitroquinoline-1 -oxide	100-02-7	8270	50	5
5-Nitro-o-toluidine	56-57-5	8270	10	2.0
7,12-Dimethylbenz(a)anthracene	99-55-8	8270	10	1.8
a,a-Dimethylphenethylamine	57-97-6	8270	50	5
Acenaphthene	122-09-8	8270	10	0.35

Analyte	CAS Number	METHOD	PQL(ug/l)	MDL(ug/l)
Acenaphthylene	208-96-8	8270	10	0.48
Acetone	67-64-1	8260	10	2.0
Acetonitrile	75-05-8	8260	100	31.67
Acetophenone	98-86-2	8270	10	1.0
Acrolein	107-02-8	8260	10	3.4
Acrylonitrile	107-13-1	8260	10	1.1
Allyl chloride/ (3-Chloropropene)	107-05-1	8260	10	1.0
Aniline	62-53-3	8270	10	1.1
Anthracene	120-12-7	8270	10	0.52
Antimony	7440-36-0	6020 /6010	2	0.6
Aramite	140-57-8	8270	10	3.7
Arsenic	7440-38-2	6020/ 6010	10	2
Barium	7440-39-3	6020/ 6010	10	1.3
Benzene	71-43-2	8260	1	0.3
Benzo(a)anthracene	56-55-3	8270	10	0.45
Benzo(a)pyrene	50-32-8	8270	10	1.5
Benzo(b)fluoranthene	205-99-2	8270	10	1.2
Benzo(g,h,i)perylene	191-24-2	8270	10	0.42
Benzo(k)fluoranthene	207-08-9	8270	10	1.6
Benzyl alcohol	100-51-6	8270	10	3.0
Beryllium	7440-41-7	6020/ 6010	1	0.3
Bis(2-chlorethoxy)methane	111-91-1	8270	1	0.5
Bis(2-chloroethyl)ether	111-44-4	8270	1	0.5
Bis(2-chloroisopropyl)ether	108-60-1	8270	10	0.6
Bis(2-ethylhexyl)phthalate	117-81-7	8270	10	2.0
Bromodichloromethane	75-27-4	8260	1	0.3
Bromoform	75-25-2	8260	1	0.4
Bromomethane	74-83-9	8260	1	0.542
Butyl benzyl phthalate	85-68-7	8270	10	0.7
Cadmium	7440-43-9	6020/6010	1	0.2
Carbon disulfide	75-15-0	8260	10	0.4
Chloroethane (required as compliance well not App IX		8260	1	
Chloromethane (required as compliance well not App IX		8260	1	
Carbon tetrachloride	56-23-5	8260	1	0.3
Chlorobenzilate	510-15-6	8270	10	3.0

Analyte	CAS Number	METHOD	PQL(ug/l)	MDL(ug/l)
Chloroform	67-66-3	8260	1	0.3
Chloroprene/ (2-Chloro-1,3-butadiene	126-99-8	8260	10	0.46
Chromium	7440-47-3	6020/6010	5	1.0
Chrysene	218-01-9	8270	10	0.31
Cobalt	7440-48-4	6020/6010	5	1.0
Copper	7440-50-8	6020/6010	5	1.7
Cyanide	57-12-5	9010	20	5
Diallate	2303-16-4	8270	10	3.0
Dibenzo(a,h)anthracene	53-70-3	8270	10	0.38
Dibenzofuran	132-64-9	8270	10	0.6
Dibromochloromethane	124-48-1	8260	1	0.4
Dibromomethane/ (methylene bromide)	74-95-3	8260	1	0.3
Dichlorodifluoromethane	75-71-8	8260	1	0.4
Diethyl ether/ (ethyl ether)	60-29-7	8260	12.5	1.11
Diethyl phthalate	84-66-2	8270	10	2.0
Dimethoate	60-51-5	8270	10	3.0
Dimethyl ether (8260C)	115-10-6	8260	12.5	1.11
Dimethyl phthalate – GEL 1/0.3	131-11-3	8270	10	0.5
Di-n-butyl phthalate	84-74-2	8270	10	1.8
Di-n-octyl phthalate-GEL 1/0.3	117-84-0	8270	10	0.8
Diphenylamine (as n-nitrosodiphenylamine	86-30-6	8270	10	0.58
Disulfoton	298-04-4	8270	10	3.0
Ethyl methacrylate	97-63-2	8260	10	0.81
Ethyl methacrylate (DUP	97-63-2	8270	10	0.2
Ethyl methanesulfonate	62-50-0	8270	10	1.1
Ethylbenzene	100-41-4	8260	1	0.3
Famphur	52-85-7	8270	10	5.0
Fluoranthene	206-44-0	8270	10	0.42
Fluorene	86-73-7	8270	10	0.38

Analyte	CAS Number	METHOD	PQL (ug/I)	MDL (ug/I)
Heaxachloroethane	67-72-1	8260/8270	10	0.4
Hexachlorobenzene	118-74-1	8270	10	0.87
Hexachlorobutadiene	87-68-3	8260	1	0.4
Hexachlorocyclopentadiene	77-47-4	8270	10	3.0
Hexachlorophene – GEL 500/167	70-30-4	8270	500	185
Hexachloropropene	1888-71-7	8270	10	2
Indeno(1 ,2,3-cd)pyrene	193-39-5	8270	10	0.15
Iodomethane/ (methyl iodide)	74-88-4	8260	10	0.58
Isobutyl alcohol	78-83-1	8260	200	11.6
Isodrin	465-73-6	8270	10	1.1
Isophorone	78-59-1	8270	10	0.5
Isosafrole (Pace WC -)	120-58-1	8270	10	1.6
Kepone	143-50-0	8270	50	25
Lead	7439-92-1	6020/6010	3	1.0
m,p-Cresol	106-44-5	8270	20	2.47
m,p-Xylene	179601-23-1	8260	2	0.4
Mercury	7439-97-6	7470	2	0.2
Methacrylonitrile	126-98-7	8260	100	9.75
Methapyrilene	91-80-5	8270	10	3.0
Methyl methacrylate	80-62-6	8260	10	3.58
Methyl methanesulfonate	66-27-3	8270	10	1.0
Methyl parathion	298-00-0	8270	10	3.2
Methylene chloride	75-09-2	8260	1	0.7
Naphthalene	91-20-3	8260	1	0.4
Nickel	7440-02-0	6020/6010	10	2.0
Nitrobenzene	98-95-3	8270	10	0.6
N-Nitrosodiethylamine	55-18-5	8270	10	3.0
N-Nitrosodimethylamine	62-75-9	8270	10	2.0
N-Nitroso-di-n-butylamine	924-16-3	8270	10	3.0
N-Nitrosodi-n-propylamine	621-64-7	8270	10	0.5
N-Nitrosodiphenylamine (as diphenylamine)	86-30-6	8270	10	0.58
n-Nitrosomethylethylamine	10595-95-6	8270	10	1.0

Analyte	CAS Number	METHOD	PQL(ug /I)	MDL (ug/1)
N-Nitrosomorpholine	59-89-2	8270	10	3.0
N-Nitrosopiperidine	100-75-4	8270	10	1.1
N-Nitrosopyrrolidine	930-55-2	8270	10	0.5
o,o,o-Triethylphosphorothioate	126-68-1	8270	10	2.6
o,o-Diethyl-o-2-pyrazinyl phosphorothioate/ (Thionazin)	297-97-2	8270	10	2.4
o-Cresol/ (2-methylphenol)	95-48-7	8270	10	0.96
o-Toluidine	95-53-4	8270	10	4.0
o-Xylene	95-47-6	8260	1	0.4
Parathion/ (Ethyl parathion)	56-38-2	8270	10	3.0
p-Dimethylaminoazobenzene	60-11-7	8270	10	3.0
Pentachlorobenzene	608-93-5	8270	10	1.6
Pentachloroethane	76-01-7	8260	10	1.7
Pentachloroethane (DUP)	76-01-7	8270	10	2.7
Pentachloronitrobenzene (PACE W.Columbia – 10/1)	82-68-8	8270	10	1.0
Pentachlorophenol	87-86-5	8270	10	3.0
Phenacetin	62-44-2	8270	10	1.4
Phenanthrene	85-01-8	8270	10	0.52
Phenol	108-95-2	8270	10	0.77
Phorate	298-02-2	8270	10	2.5
p-Phenylenediamine	106-50-3	8270	150	26.4
Pronamide (pace WC)	23950-58-5	8270	10	1.5
Propionitrile	107-12-0	8260	100	10.22
Pyrene	129-00-0	8270	10	0.41
Pyridine	110-86-1	8270	10	2.0
Safrole	94-59-7	8270	10	2.2
Selenium	7782-49-2	6020/6010	10	3.0
Silver	7440-22-4	6020/6010	2	0.3
Styrene	100-42-5	8260	1	0.3
Sulfotep	3689-24-5	8270	10	2.4
sym-Trinitrobenzene/ (1,3,5-trinitrobenzene)	99-35-4	8270	10	3.0
Tetrachloroethene	127-18-4	8260	1	0.3
Tetrahydrofuran	109-99-9	8260	25	2
Thallium	7440-28-0	6020/6010	1	0.2
Toluene	108-88-3	8260	1	0.3

Analyte	CAS Number	METHOD	PQL (ug/l)	MDL (ug/l)
trans-1,2-Dichloroethene	156-60-5	8260	1	0.3
trans-1,3-Dichloropropene	10061-02-6	8260	1	0.4
trans-1,4-Dichloro-2-butene	110-57-6	8260	10	1.5
Trichloroethene	79-01-6	8260	1	0.3
Trichlorofluoromethane	75-69-4	8260	1	0.4
Vanadium	7440-62-2	6020/6010	10	2.5
Vinyl acetate	108-05-4	8260	10	3.29
Vinyl chloride	75-01-4	8260	1	0.2
Xylenes, Total	1330-20-7	8260	3	0.4
Zinc	7440-66-6	6020/6010	30	7.3

Notes:
ug/l = micrograms per liter
PQL = Practical Quantitation Limit
MDL = Method Detection Limit
CAS = Chemical Abstracts Service Registry Number

Purple – GEL
Yellow – ELLE
Blue – Eurofins Test America- Canton
Pace – West Columbia – moved Isofrole and pronamide from ELLE to Paces WC

VOCs – ELLE and ETA
SVOCs – ELLE, TA, GEL, PACE WC….Final 7-25-23 JCF

GEL Laboratories LLC
a member of The GEL Group INC

PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

gel.com

August 10, 2023

Ms. Janet Frazier
TRC Companies, Inc.
2206 South Main St.
Blacksburg, Virginia 24060

Re: RAAP
Work Order: 631221

Dear Ms. Frazier:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on July 28, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4485.

Sincerely,

Jessica Ward for
Valerie Davis
Project Manager

Purchase Order: GELP
Enclosures

Table of Contents

Case Narrative.....1

Chain of Custody and Supporting Documentation.4

Laboratory Certifications.....8

Semi-Volatile Analysis.....24

Case Narrative.....25

Sample Data Summary.....30

Quality Control Summary.....38

Sample Data.....55

Standards.....84

Quality Control Data.....235

Miscellaneous.....300

Case Narrative

Receipt Narrative
for
TRC Companies, Inc.
SDG: 631221

August 10, 2023

Laboratory Identification:

GEL Laboratories LLC
2040 Savage Road
Charleston, South Carolina 29407
(843) 556-8171

Summary:

Sample receipt: The samples arrived at GEL Laboratories LLC, Charleston, South Carolina on July 28, 2023 for analysis. The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

Sample Identification: The laboratory received the following samples:

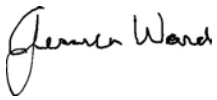
Laboratory ID	Client ID
631221001	16C1
631221002	16MW8
631221003	16MW9
631221004	16WC1A
631221005	16WDUP
631221006	16WC1B

Case Narrative:

Sample analyses were conducted using methodology as outlined in GEL's Standard Operating Procedures. Any technical or administrative problems during analysis, data review, and reduction are contained in the analytical case narratives in the enclosed data package.

GEL Laboratories LLC PO Box 30712 Charleston, SC 29417 2040 Savage Road Charleston, SC 29407 P 843.556.8171 F 843.766.1178 www.gel.com

The enclosed data package contains the following sections: Case Narrative, Chain of Custody, Cooler Receipt Checklist, Data Package Qualifier Definitions and data from the following fractions: GC/MS Semivolatile.



Jessica Ward for
Valerie Davis
Project Manager

GEL Laboratories LLC PO Box 30712 Charleston, SC 29417 2040 Savage Road Charleston, SC 29407 P 843.556.8171 F 843.766.1178 www.gel.com

Chain of Custody and Supporting Documentation

Page 1 of 1

SDG: 631221

CHAIN OF CUSTODY RECORD

631221

Laboratory: GEL Laboratories, LLC - 2040 Savage Road - 2040 Savage Road Charleston, SC - 29407 - Direct: 843.769.7391 - Valerie Davis: Valerie.Davis@gel.com

Client: 0 Attn: 0 Address: 0 0 Phone: 0 Fax: 0 Fax: 0	Consultant: Attn: Address: Phone: Fax:	TRC Engineers Inc (formerly Draper Aden Assoc) Janet C. Frazier 2200 South Main Street Suite 1 Blacksburg, Virginia 24060 (540) 552-0444	Sample Site: RFAAP, Radford, Virginia Location: HWMU16 Event: 3Q 2023 Annual GW Monitoring Event DAA JN: Lab JN: 547076	Project Specific (PS) QC: YES as indicated Sample Collection for Project Complete? YES UFS: 12-237-301-01-9686-0458 Carrier: 1Z - 1C - 11 - 11 9492-5500 Tracking Number:

Box 1: Matrix
SW Surface Water; GW Groundwater; L Leachate; S Soil; T Trip Blank; E Equipment Blank; P Product; O Other

Box 2: Preservative
A HCL; B HNO_3; C H_2SO_4; D $Na_2S_2O_3$; E NaOH; F ZnAc; G Other (Specify); H None

Box 3: Filtered/Unfiltered
F Filtered; U Unfiltered

Box 4: Sample Type
G Grab; C Composite

Box 5: Sample Container Type
P Plastic; AG Amber Glass; V VOA; CG Clear Glass

Invoice
Copy to Consultant: YES
Bill: CLIENT OTHER
Preserved and shipped on ice: YES

Box 4 - Sample Type						G									
Box 3 - Filtered/Unfiltered						U									
Required pH of Sample															
Box 2 - Preservative						H									
Box 5 - Sample Container Type						2-1L AG									
Sample ID	Date: 2023	Time	Box 1: Matrix	Number of Bottles		8270E/3510C (Semivolatiles)see note section for three analtyes only									
16C1	7/27	1245	GW	2		X									
16MW8	7/26	1005	GW	2		X									
16MW9	7/27	1125	GW	2		X									
16WC1A	7/27	0955	GW	6		X									USE FOR QC
16WDUP	7/27	1020	GW	2		X									
16WC1B	7/26	1205	GW	2		X									

GENERAL NOTES:
1. Report results to detection limit, with J flags, for italicized wells.
2. VELAP accreditation required. (#12241 expires 12/14/23
3. FULL/Comprehensive Deliverable with EDD .
4. Report to these Permit Specified QL and MDL below.
REPORT ONLY: dimethylphthalate permit QL 10 ug/l/DL 0.5 ug/l; and di-n-octylphthalate QL 10 ug/l, DL 0.8 ug/l and hexachlorophene QL 500 ug/l/DL 185 ug/l.

Clients Special Instructions:

Received by lab in Good Condition ____ Yes ____ No Custody Seal Intact ____ Yes ____ No Temperature upon arrival ____ Received on Ice ____ Yes ____ No
Describe problems, if any:

Sampler Name (Print): Ken Coddington	Date: 7/26/23	#1 Relinquished by (Signature):	Date: 7/27/23	#2 Relinquished by (Signature):	Date:	Sample Storage	
Sampler Signature:	Time: 0700	Company Name: DAA/TRC	Time: 1700	Company Name:	Time:	Time Requested:	
Sampler Name (Print): Aleta Prater	Date: 7/26/23	#1 Received by (Signature):	Date: 7/28/23	#2 Received by (Signature):	Date:	30 DYS ORG/6 MTHS INORG	
Sampler Signature:	Time: 0700	Company Name: GEL	Time: 0930	Company Name:	Time:		

VELAP ✓ JLR 7-17-23
MDL/QL ✓ JLR 7-17-23

Page 1 of 1 JLR 7-17-23

Page 20 of 30

SDG: 631221

CHAIN OF CUSTODY RECORD

Laboratory: GEL Laboratories, LLC - 2040 Savage Road - 2040 Savage Road Charleston, SC - 29407 - Direct: 843.769.7391 - Valerie Davis: Valerie.Davis@gel.com

Client: 0 Attn: 0 Address: 0 0 Phone: 0 Fax: 0 Fax: 0	Consultant: Attn: Address: Phone: Fax:	TRC Engineers Inc (formerly Draper Aden Assoc) Janet C. Frazier 2200 South Main Street Suite 1 Blacksburg, Virginia 24060 (540) 552-0444	Sample Site: Location: Event: DAA JN: Lab JN:	RFAAP, Radford, Virginia HWMU16 3Q 2023 Annual GW Monitoring Event 547076	Project Specific (PS) QC: YES as indicated Sample Collection for Project Complete? YES UFP: 12-237-301-01-9686-0488 Carrier: 11-11-11-11 9492-5500 Tracking Number:

Box 1: Matrix		Box 2: Preservative		Box 3: Filtered/Unfiltered	Box 4: Sample Type	Invoice
SW Surface Water	T Trip Blank	A HCL	E NaOH	F Filtered	G Grab	Copy to Consultant: YES
GW Groundwater	E Equipment Blank	B HNO_3	F ZnAc	U Unfiltered	C Composite	Bill: CLIENT OTHER
L Leachate	P Product	C H_2SO_4	G Other (Specify)	Box 5: Sample Container Type		Preserved and shipped on ice: YES
S Soil	O Other	D $Na_2S_2O_3$	H None	P Plastic V VOA AG Amber Glass CG Clear Glass		

Box 4 - Sample Type					G										
Box 3 - Filtered/Unfiltered					U										
Required pH of Sample															
Box 2 - Preservative					H										
Box 5 - Sample Container Type					2-1L AG										
Sample ID	Date: 2023	Time	Box 1: Matrix	Number of Bottles	8270E/3510C (Semivolatiles)see note section for three analtyes only										
16C1	7/27	1245	GW	2	X										
16MW8	7/26	1005	GW	2	X										
16MW9	7/27	1125	GW	2	X										
16WC1A	7/27	0955	GW	6	X										USE FOR QC
16WDUP	7/27	1020	GW	2	X										
16WC1B	7/26	1205	GW	2	X										

GENERAL NOTES:

1. Report results to detection limit, with J flags, for italicized wells.
2. VELAP accreditation required. (#12241 expires 12/14/23
3. FULL/Comprehensive Deliverable with EDD .
4. Report to these Permit Specified QL and MDL below.

REPORT ONLY: dimethylphthalate permit QL 10 ug/l/DL 0.5 ug/l; di-n-octylphthalate QL 10 ug/l, DL 0.8 ug/l and hexachlorophene QL 500 ug/l/DL 185 ug/l.

Clients Special Instructions:

Received by lab in Good Condition _____ Yes _____ No Custody Seal Intact _____ Yes _____ No Temperature upon arrival _____ Received on Ice _____ Yes _____ No
Describe problems, if any:

Sampler Name (Print): Ken Coddington	Date: 7/26/23	#1 Relinquished by (Signature): [signature]	Date: 7/27/23	#2 Relinquished by (Signature):	Date:	Sample Storage	
Sampler Signature: [signature]	Time: 0700	Company Name: DAA/TRC	Time: 1700	Company Name:	Time:	Time Requested:	
Sampler Name (Print): Aleda Prater	Date: 7/26/23	#1 Received by (Signature): [signature]	Date: 7/28/23	#2 Received by (Signature):	Date:	30 DYS ORG/6 MTHS INORG	
Sampler Signature: Aleda Prater	Time: 0700	Company Name: GEL	Time: 0930	Company Name:	Time:		

VELAP ✓ JUN 17-23

Page 1 of 1 JLF 7-17-23

VD

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: DPAA	SDG/AR/COC/Work Order: 631-221
Received By: EG	Date Received:
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other 12 237 301 01 9492 5500 12 237 301 01 9686 0488

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?		X	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		X	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		X	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 60 CPM/ mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		X	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		X	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	√			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	√			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	√			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 3
4	Daily check performed and passed on IR temperature gun?	√			Temperature Device Serial #: IR5-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	√			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?		√		Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			√	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	√			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	√			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	√			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	√			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	√			
13	COC form is properly signed in relinquished/received sections?	√			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials VD Date 7/31/23 Page 1 of 1

GL-CHL-SR-001 Rev 7

Laboratory Certifications

List of current GEL Certifications as of 10 August 2023

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

TRCI001 TRC Companies, Inc.

Client SDG: 631221 GEL Work Order: 631221

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria
** Analyte is a Tracer compound
** Analyte is a surrogate compound
U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
h Preparation or preservation holding time was exceeded

Review/Validation

GEL requires all analytical data to be verified by a qualified data reviewer. In addition, all CLP-like deliverables receive a third level review of the fractional data package.

The following data validator verified the information presented in this data report:

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: August 10, 2023

Company : TRC Companies, Inc.
Address : 2206 South Main St.

Blacksburg, Virginia 24060
Contact: Ms. Janet Frazier
Project: RAAP

Client Sample ID: 16C1
Sample ID: 631221001
Matrix: Ground Water
Collect Date: 27-JUL-23 12:45
Receive Date: 28-JUL-23
Collector: Client

Project: TRCI00123
Client ID: TRCI001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Semi-Volatile-GC/MS												
8270 BNA "As Received"												
Di-n-octylphthalate	U	ND	0.284	0.945	ug/L	0.000945	1	NM1	08/03/23	1252	2469792	1
Dimethylphthalate	U	ND	0.284	0.945	ug/L	0.000945	1					
Hexachlorophene	U	ND	158	473	ug/L	0.000945	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3510C	SW846 3510C Prep Semivolatiles 8270	TH1	08/02/23	1236	2469789

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3510C/8270E	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Nitrobenzene-d5	8270 BNA "As Received"	32.1 ug/L	47.3	68	(39%-112%)
2-Fluorobiphenyl	8270 BNA "As Received"	30.3 ug/L	47.3	64	(39%-112%)
p-Terphenyl-d14	8270 BNA "As Received"	17.8 ug/L	47.3	38	(24%-129%)
2,4,6-Tribromophenol	8270 BNA "As Received"	69.7 ug/L	94.5	74	(37%-132%)
Phenol-d5	8270 BNA "As Received"	22.4 ug/L	94.5	24	(15%-85%)
2-Fluorophenol	8270 BNA "As Received"	31.7 ug/L	94.5	34	(11%-79%)

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: August 10, 2023

Company : TRC Companies, Inc.
Address : 2206 South Main St.

Blacksburg, Virginia 24060
Contact: Ms. Janet Frazier
Project: RAAP

Client Sample ID: 16MW8
Sample ID: 631221002
Matrix: Ground Water
Collect Date: 26-JUL-23 10:05
Receive Date: 28-JUL-23
Collector: Client

Project: TRCI00123
Client ID: TRCI001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Semi-Volatile-GC/MS												
8270 BNA "As Received"												
Di-n-octylphthalate	U	ND	0.282	0.940	ug/L	0.000940	1	NM1	08/03/23	1313	2469792	1
Dimethylphthalate	U	ND	0.282	0.940	ug/L	0.000940	1					
Hexachlorophene	U	ND	157	470	ug/L	0.000940	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3510C	SW846 3510C Prep Semivolatiles 8270	TH1	08/02/23	1236	2469789

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3510C/8270E	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Nitrobenzene-d5	8270 BNA "As Received"	32.0 ug/L	47.0	68	(39%-112%)
2-Fluorobiphenyl	8270 BNA "As Received"	31.9 ug/L	47.0	68	(39%-112%)
p-Terphenyl-d14	8270 BNA "As Received"	22.3 ug/L	47.0	47	(24%-129%)
2,4,6-Tribromophenol	8270 BNA "As Received"	69.6 ug/L	94.0	74	(37%-132%)
Phenol-d5	8270 BNA "As Received"	22.7 ug/L	94.0	24	(15%-85%)
2-Fluorophenol	8270 BNA "As Received"	30.6 ug/L	94.0	32	(11%-79%)

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: August 10, 2023

Company : TRC Companies, Inc.
Address : 2206 South Main St.

Blacksburg, Virginia 24060
Contact: Ms. Janet Frazier
Project: RAAP

Client Sample ID: 16MW9
Sample ID: 631221003
Matrix: Ground Water
Collect Date: 27-JUL-23 11:25
Receive Date: 28-JUL-23
Collector: Client

Project: TRCI00123
Client ID: TRCI001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Semi-Volatile-GC/MS												
8270 BNA "As Received"												
Di-n-octylphthalate	U	ND	0.283	0.945	ug/L	0.000945	1	NM1	08/03/23	1335	2469792	1
Dimethylphthalate	U	ND	0.283	0.945	ug/L	0.000945	1					
Hexachlorophene	U	ND	158	472	ug/L	0.000945	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3510C	SW846 3510C Prep Semivolatiles 8270	TH1	08/02/23	1236	2469789

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3510C/8270E	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Nitrobenzene-d5	8270 BNA "As Received"	38.8 ug/L	47.2	82	(39%-112%)
2-Fluorobiphenyl	8270 BNA "As Received"	37.8 ug/L	47.2	80	(39%-112%)
p-Terphenyl-d14	8270 BNA "As Received"	24.4 ug/L	47.2	52	(24%-129%)
2,4,6-Tribromophenol	8270 BNA "As Received"	84.6 ug/L	94.5	90	(37%-132%)
Phenol-d5	8270 BNA "As Received"	28.5 ug/L	94.5	30	(15%-85%)
2-Fluorophenol	8270 BNA "As Received"	42.3 ug/L	94.5	45	(11%-79%)

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: August 10, 2023

Company : TRC Companies, Inc.
Address : 2206 South Main St.

Blacksburg, Virginia 24060
Contact: Ms. Janet Frazier
Project: RAAP

Client Sample ID: 16WC1A
Sample ID: 631221004
Matrix: Ground Water
Collect Date: 27-JUL-23 09:55
Receive Date: 28-JUL-23
Collector: Client

Project: TRCI00123
Client ID: TRCI001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Semi-Volatile-GC/MS												
8270 BNA "As Received"												
Di-n-octylphthalate	U	ND	0.286	0.952	ug/L	0.000952	1	NM1	08/03/23	1356	2469792	1
Dimethylphthalate	U	ND	0.286	0.952	ug/L	0.000952	1					
Hexachlorophene	U	ND	159	476	ug/L	0.000952	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3510C	SW846 3510C Prep Semivolatiles 8270	TH1	08/02/23	1236	2469789

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3510C/8270E	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Nitrobenzene-d5	8270 BNA "As Received"	32.6 ug/L	47.6	68	(39%-112%)
2-Fluorobiphenyl	8270 BNA "As Received"	32.2 ug/L	47.6	68	(39%-112%)
p-Terphenyl-d14	8270 BNA "As Received"	23.1 ug/L	47.6	48	(24%-129%)
2,4,6-Tribromophenol	8270 BNA "As Received"	73.0 ug/L	95.2	77	(37%-132%)
Phenol-d5	8270 BNA "As Received"	21.6 ug/L	95.2	23	(15%-85%)
2-Fluorophenol	8270 BNA "As Received"	31.0 ug/L	95.2	33	(11%-79%)

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: August 10, 2023

Company : TRC Companies, Inc.
Address : 2206 South Main St.

Blacksburg, Virginia 24060
Contact: Ms. Janet Frazier
Project: RAAP

Client Sample ID: 16WDUP
Sample ID: 631221005
Matrix: Ground Water
Collect Date: 27-JUL-23 10:20
Receive Date: 28-JUL-23
Collector: Client

Project: TRCI00123
Client ID: TRCI001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Semi-Volatile-GC/MS												
8270 BNA "As Received"												
Di-n-octylphthalate	hU	ND	0.282	0.939	ug/L	0.000939	1	MU1	08/09/23	1917	2472650	1
Dimethylphthalate	hU	ND	0.282	0.939	ug/L	0.000939	1					
Hexachlorophene	hU	ND	157	469	ug/L	0.000939	1					
Di-n-octylphthalate	U	ND	0.282	0.941	ug/L	0.000941	1	NM1	08/03/23	1501	2469792	2
Dimethylphthalate	U	ND	0.282	0.941	ug/L	0.000941	1					
Hexachlorophene	U	ND	157	471	ug/L	0.000941	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3510C	SW846 3510C Prep Semivolatiles 8270	TH1	08/09/23	1216	2472647
SW846 3510C	SW846 3510C Prep Semivolatiles 8270	TH1	08/02/23	1236	2469789

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3510C/8270E	
2	SW846 3510C/8270E	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	8270 BNA "As Received"	23.8 ug/L	46.9	51	(39%-112%)
Nitrobenzene-d5	8270 BNA "As Received"	25.6 ug/L	46.9	55	(39%-112%)
p-Terphenyl-d14	8270 BNA "As Received"	19.2 ug/L	46.9	41	(24%-129%)
2,4,6-Tribromophenol	8270 BNA "As Received"	44.2 ug/L	93.9	47	(37%-132%)
2-Fluorophenol	8270 BNA "As Received"	24.9 ug/L	93.9	27	(11%-79%)
Phenol-d5	8270 BNA "As Received"	17.4 ug/L	93.9	19	(15%-85%)
Nitrobenzene-d5	8270 BNA "As Received"	16.3 ug/L	47.1	35*	(39%-112%)
2-Fluorobiphenyl	8270 BNA "As Received"	18.1 ug/L	47.1	38*	(39%-112%)
p-Terphenyl-d14	8270 BNA "As Received"	8.91 ug/L	47.1	19*	(24%-129%)
2,4,6-Tribromophenol	8270 BNA "As Received"	20.1 ug/L	94.1	21*	(37%-132%)
Phenol-d5	8270 BNA "As Received"	10.9 ug/L	94.1	12*	(15%-85%)
2-Fluorophenol	8270 BNA "As Received"	11.1 ug/L	94.1	12	(11%-79%)

Notes:

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: August 10, 2023

Company :	TRC Companies, Inc.
Address :	2206 South Main St.
	Blacksburg, Virginia 24060
Contact:	Ms. Janet Frazier
Project:	RAAP

Client Sample ID:	16WDUP	Project:	TRCI00123
Sample ID:	631221005	Client ID:	TRCI001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: August 10, 2023

Company : TRC Companies, Inc.
Address : 2206 South Main St.

Blacksburg, Virginia 24060
Contact: Ms. Janet Frazier
Project: RAAP

Client Sample ID: 16WC1B
Sample ID: 631221006
Matrix: Ground Water
Collect Date: 26-JUL-23 12:05
Receive Date: 28-JUL-23
Collector: Client

Project: TRCI00123
Client ID: TRCI001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Semi-Volatile-GC/MS												
8270 BNA "As Received"												
Di-n-octylphthalate	U	ND	0.291	0.971	ug/L	0.000971	1	NM1	08/03/23	1522	2469792	1
Dimethylphthalate	U	ND	0.291	0.971	ug/L	0.000971	1					
Hexachlorophene	U	ND	162	486	ug/L	0.000971	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3510C	SW846 3510C Prep Semivolatiles 8270	TH1	08/02/23	1236	2469789

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3510C/8270E	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Nitrobenzene-d5	8270 BNA "As Received"	38.5 ug/L	48.6	79	(39%-112%)
2-Fluorobiphenyl	8270 BNA "As Received"	38.1 ug/L	48.6	78	(39%-112%)
p-Terphenyl-d14	8270 BNA "As Received"	38.5 ug/L	48.6	79	(24%-129%)
2,4,6-Tribromophenol	8270 BNA "As Received"	68.7 ug/L	97.1	71	(37%-132%)
Phenol-d5	8270 BNA "As Received"	22.5 ug/L	97.1	23	(15%-85%)
2-Fluorophenol	8270 BNA "As Received"	31.1 ug/L	97.1	32	(11%-79%)

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

QC Summary

Report Date: August 10, 2023

TRC Companies, Inc.
2206 South Main St.
Blacksburg, Virginia

Contact: **Ms. Janet Frazier**

Workorder: **631221**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Semi-Volatile-GC/MS											
Batch 2469792											
QC1205476112 LCS											
Di-n-octylphthalate	50.0			40.8	ug/L		82	(50%-125%)	NM1	08/03/23	11:26
Dimethylphthalate	50.0			43.0	ug/L		86	(62%-123%)			
**2,4,6-Tribromophenol	100			85.4	ug/L		85	(37%-132%)			
**2-Fluorobiphenyl	50.0			37.3	ug/L		75	(39%-112%)			
**2-Fluorophenol	100			36.4	ug/L		36	(11%-79%)			
**Nitrobenzene-d5	50.0			33.9	ug/L		68	(39%-112%)			
**Phenol-d5	100			27.5	ug/L		28	(15%-85%)			
**p-Terphenyl-d14	50.0			36.9	ug/L		74	(24%-129%)			
QC1205476111 MB											
Di-n-octylphthalate			U	ND	ug/L					08/03/23	11:05
Dimethylphthalate			U	ND	ug/L						
Hexachlorophene			U	ND	ug/L						
**2,4,6-Tribromophenol	100			79.7	ug/L		80	(37%-132%)			
**2-Fluorobiphenyl	50.0			37.1	ug/L		74	(39%-112%)			

QC Summary

Workorder: **631221**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Semi-Volatile-GC/MS											
Batch 2469792											
**2-Fluorophenol	100				38.0	ug/L		38	(11%-79%)	NM1	08/03/23 11:05
**Nitrobenzene-d5	50.0				36.6	ug/L		73	(39%-112%)		
**Phenol-d5	100				28.2	ug/L		28	(15%-85%)		
**p-Terphenyl-d14	50.0				38.4	ug/L		77	(24%-129%)		
QC1205476115 631221004 MS											
Di-n-octylphthalate	100	U	ND		77.5	ug/L		77	(38%-128%)		08/03/23 14:18
Dimethylphthalate	100	U	ND		81.7	ug/L		82	(50%-130%)		
**2,4,6-Tribromophenol	200		73.0		170	ug/L		85	(37%-132%)		
**2-Fluorobiphenyl	100		32.2		71.0	ug/L		71	(39%-112%)		
**2-Fluorophenol	200		31.0		102	ug/L		51	(11%-79%)		
**Nitrobenzene-d5	100		32.6		62.0	ug/L		62	(39%-112%)		
**Phenol-d5	200		21.6		86.7	ug/L		43	(15%-85%)		
**p-Terphenyl-d14	100		23.1		73.0	ug/L		73	(24%-129%)		
QC1205476116 631221004 MSD											
Di-n-octylphthalate	100	U	ND		83.3	ug/L	7	83	(0%-80%)		08/03/23 14:39
Dimethylphthalate	100	U	ND		85.6	ug/L	5	86	(0%-50%)		
**2,4,6-Tribromophenol	200		73.0		171	ug/L		86	(37%-132%)		

QC Summary

Workorder: **631221**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Semi-Volatile-GC/MS										
Batch 2469792										
**2-Fluorobiphenyl	100	32.2		70.1	ug/L		70	(39%-112%)	NM1	08/03/23 14:39
**2-Fluorophenol	200	31.0		80.6	ug/L		40	(11%-79%)		
**Nitrobenzene-d5	100	32.6		59.4	ug/L		59	(39%-112%)		
**Phenol-d5	200	21.6		75.0	ug/L		37	(15%-85%)		
**p-Terphenyl-d14	100	23.1		68.8	ug/L		69	(24%-129%)		
Batch 2472650										
QC1205481840 LCS										
Di-n-octylphthalate	50.0			28.6	ug/L		57	(50%-125%)	MU1	08/09/23 18:34
Dimethylphthalate	50.0			27.4	ug/L		55*	(62%-123%)		
**2,4,6-Tribromophenol	100			43.3	ug/L		43	(37%-132%)		
**2-Fluorobiphenyl	50.0			24.8	ug/L		50	(39%-112%)		
**2-Fluorophenol	100			23.3	ug/L		23	(11%-79%)		
**Nitrobenzene-d5	50.0			25.3	ug/L		51	(39%-112%)		
**Phenol-d5	100			18.3	ug/L		18	(15%-85%)		
**p-Terphenyl-d14	50.0			18.3	ug/L		37	(24%-129%)		
QC1205481839 MB										
Di-n-octylphthalate			U	ND	ug/L					08/09/23 18:12

QC Summary

Workorder: **631221**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Semi-Volatile-GC/MS											
Batch 2472650											
Dimethylphthalate				U	ND	ug/L				MU1	08/09/23 18:12
Hexachlorophene				U	ND	ug/L					
**2,4,6-Tribromophenol	100				46.6	ug/L		47	(37%-132%)		
**2-Fluorobiphenyl	50.0				27.8	ug/L		56	(39%-112%)		
**2-Fluorophenol	100				29.2	ug/L		29	(11%-79%)		
**Nitrobenzene-d5	50.0				27.4	ug/L		55	(39%-112%)		
**Phenol-d5	100				21.2	ug/L		21	(15%-85%)		
**p-Terphenyl-d14	50.0				26.3	ug/L		53	(24%-129%)		
QC1205481843 631989001 MS											
Di-n-octylphthalate	112	U	ND		93.8	ug/L		83	(38%-128%)		08/09/23 20:01
Dimethylphthalate	112	U	ND		81.9	ug/L		73	(50%-130%)		
**2,4,6-Tribromophenol	225		48.2		133	ug/L		59	(37%-132%)		
**2-Fluorobiphenyl	112		28.3		71.6	ug/L		64	(39%-112%)		
**2-Fluorophenol	225		31.3		103	ug/L		46	(11%-79%)		
**Nitrobenzene-d5	112		28.2		72.5	ug/L		65	(39%-112%)		
**Phenol-d5	225		23.5		92.4	ug/L		41	(15%-85%)		

QC Summary

Workorder: **631221**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Semi-Volatile-GC/MS											
Batch 2472650											
**p-Terphenyl-d14	112		22.7		66.9	ug/L		60	(24%-129%)	MU1	08/09/23 20:01
QC1205481844 631989001 MSD											
Di-n-octylphthalate	112	U	ND		99.9	ug/L	6	89	(0%-80%)		08/09/23 20:22
Dimethylphthalate	112	U	ND		85.1	ug/L	4	76	(0%-50%)		
**2,4,6-Tribromophenol	225		48.2		138	ug/L		61	(37%-132%)		
**2-Fluorobiphenyl	112		28.3		67.7	ug/L		60	(39%-112%)		
**2-Fluorophenol	225		31.3		88.3	ug/L		39	(11%-79%)		
**Nitrobenzene-d5	112		28.2		66.1	ug/L		59	(39%-112%)		
**Phenol-d5	225		23.5		83.8	ug/L		37	(15%-85%)		
**p-Terphenyl-d14	112		22.7		69.7	ug/L		62	(24%-129%)		

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, the difference is >70%.
- C Analyte has been confirmed by GC/MS analysis
- B The target analyte was detected in the associated blank.
- E Concentration of the target analyte exceeds the instrument calibration range
- A The TIC is a suspected aldol-condensation product
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
- H Analytical holding time was exceeded

QC Summary

Workorder: **631221**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

**	Analyte is a surrogate compound
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
D	Results are reported from a diluted aliquot of the sample
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
JNX	Non Calibrated Compound
UJ	Compound cannot be extracted
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
N1	See case narrative
Y	QC Samples were not spiked with this compound
N	Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Semi-Volatile Analysis

Case Narrative

GC/MS Semivolatile
Technical Case Narrative
TRC Companies, Inc.
SDG #: 631221

Product: **Analysis of Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry**
Analytical Method: SW846 3510C/8270E
Analytical Procedure: GL-OA-E-009 REV# 47
Analytical Batch: 2469792

Preparation Method: SW846 3510C
Preparation Procedure: GL-OA-E-013 REV# 35
Preparation Batch: 2469789

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
631221001	16C1
631221002	16MW8
631221003	16MW9
631221004	16WC1A
631221005	16WDUP
631221006	16WC1B
1205476111	Method Blank (MB)
1205476112	Laboratory Control Sample (LCS)
1205476115	631221004(16WC1A) Matrix Spike (MS)
1205476116	631221004(16WC1A) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Surrogate Recoveries
Sample (See Below) did not meet surrogate recovery acceptance criteria. The sample was re-extracted out of holding and met acceptance criteria for all surrogates. Both sets of data results have been reported.

Sample	Analyte	Value
631221005 (16WDUP)	2, 4, 6-Tribromophenol	21* (37%-132%)
	2-Fluorobiphenyl	38* (39%-112%)
	Nitrobenzene-d5	35* (39%-112%)
	Phenol-d5	12* (15%-85%)
	p-Terphenyl-d14	19* (24%-129%)

Miscellaneous Information

Additional Comments
Diphenylamine Statement
Diphenylamine has superseded the reporting of N-Nitroso-diphenylamine. As per the EPA, N-Nitroso-diphenylamine decomposes in the gas chromatographic inlet and cannot be separated from Diphenylamine. Studies of these two compounds at GEL, both independent of each other and together, showed that they not only co-elute, but also have similar mass spectra. N-Nitroso-diphenylamine and Diphenylamine are therefore reported as Diphenylamine on all reports and forms.

Product: **Analysis of Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry**
Analytical Method: SW846 3510C/8270E
Analytical Procedure: GL-OA-E-009 REV# 47
Analytical Batch: 2472650

Preparation Method: SW846 3510C
Preparation Procedure: GL-OA-E-013 REV# 35
Preparation Batch: 2472647

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
631221005	16WDUP
1205481839	Method Blank (MB)
1205481840	Laboratory Control Sample (LCS)
1205481843	631989001(NonSDG) Matrix Spike (MS)
1205481844	631989001(NonSDG) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

Initial Calibration
All Initial Calibration Verification Standards (ICV) were within the acceptance criteria as outlined in Method 8270E.

Please note that due to software issues at the time of packaging, the Initial Calibration Summary (ICV) forms (Form 07) for samples in this SDG displayed the Maximum Drift 50%, not the Method required 30%.

Quality Control (QC) Information

Laboratory Control Sample (LCS) Recovery
The LCS and/or LCSD (See Below) spike recoveries were not within the acceptance limits. The associated MS and/or MSD passed recoveries. It appears that the low spike recoveries were isolated to the LCS or LCSD only and were the result of a poor extraction.

Sample	Analyte	Value
1205481840 (LCS)	Dimethylphthalate	55* (62%-123%)

Technical Information

Holding Time Specifications
Sample (See Below) was re-extracted out of holding due to QC failure. The failure did not confirm, so both sets of results are reported and have been qualified accordingly.

Sample	Value
631221005 (16WDUP)	Received 28-JUL-23, within holding, prepped 09-AUG-23, out of holding 03-AUG-23

Miscellaneous Information

Additional Comments
Diphenylamine Statement
Diphenylamine has superseded the reporting of N-Nitroso-diphenylamine. As per the EPA, N-Nitroso-diphenylamine decomposes in the gas chromatographic inlet and cannot be separated from Diphenylamine. Studies of these two compounds at GEL, both independent of each other and together, showed that they not only co-elute, but also have similar mass spectra. N-Nitroso-diphenylamine and Diphenylamine are therefore reported as Diphenylamine on all reports and forms.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Qualifier Definition Report
for

TRCI001 TRC Companies, Inc.

Client SDG: 631221 GEL Work Order: 631221

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria
** Analyte is a surrogate compound
U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
h Preparation or preservation holding time was exceeded

DL Indicates that sample is diluted.
RA Indicates that sample is re-analyzed without re-extraction.
RE Indicates that sample is re-extracted.

Review/Validation

GEL requires all analytical data to be verified by a qualified data reviewer. In addition, all CLP-like deliverables receive a third level review of the fractional data package.

The following data validator verified the information presented in this data report:

Signature: Barbara Bailey **Name: Barbara Bailey**

Date: 17 AUG 2023 **Title: Data Validator**

Sample Data Summary

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**631221**	**Date Collected:**	**07/27/2023 12:45**	**Matrix:**	**GROUND WATER**
Lab Sample ID:	**631221001**	**Date Received:**	**07/28/2023 09:30**		
		Client:	**TRCI001**	**Project:**	**TRCI00123**
Client ID:	**16C1**	**Method:**	**SW846 3510C/8270E**	**SOP Ref:**	**GL-OA-E-009**
Batch ID:	**2469792**	**Inst:**	**MSD4.I**	**Dilution:**	**1**
Run Date:	**08/03/2023 12:52**	**Analyst:**	**NM1**	**Inj. Vol:**	**1 uL**
Prep Date:	**08/02/2023 12:36**	**Aliquot:**	**1057.8 mL**	**Final Volume:**	**1 mL**
Data File:	**S080323\s4H0313.D**	**Column:**	**DB-5ms**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	Dimethylphthalate	U	0.284	ug/L	0.284	0.945
117-84-0	Di-n-octylphthalate	U	0.284	ug/L	0.284	0.945
70-30-4	Hexachlorophene	U	158	ug/L	158	473

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**631221**	**Date Collected:**	**07/26/2023 10:05**	**Matrix:**	**GROUND WATER**
Lab Sample ID:	**631221002**	**Date Received:**	**07/28/2023 09:30**		
		Client:	**TRCI001**	**Project:**	**TRCI00123**
Client ID:	**16MW8**	**Method:**	**SW846 3510C/8270E**	**SOP Ref:**	**GL-OA-E-009**
Batch ID:	**2469792**	**Inst:**	**MSD4.I**	**Dilution:**	**1**
Run Date:	**08/03/2023 13:13**	**Analyst:**	**NM1**	**Inj. Vol:**	**1 uL**
Prep Date:	**08/02/2023 12:36**	**Aliquot:**	**1063.47 mL**	**Final Volume:**	**1 mL**
Data File:	**S080323\s4H0314.D**	**Column:**	**DB-5ms**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	Dimethylphthalate	U	0.282	ug/L	0.282	0.940
117-84-0	Di-n-octylphthalate	U	0.282	ug/L	0.282	0.940
70-30-4	Hexachlorophene	U	157	ug/L	157	470

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**631221**	**Date Collected:**	**07/27/2023 11:25**	**Matrix:**	**GROUND WATER**
Lab Sample ID:	**631221003**	**Date Received:**	**07/28/2023 09:30**		
		Client:	**TRCI001**	**Project:**	**TRCI00123**
Client ID:	**16MW9**	**Method:**	**SW846 3510C/8270E**	**SOP Ref:**	**GL-OA-E-009**
Batch ID:	**2469792**	**Inst:**	**MSD4.I**	**Dilution:**	**1**
Run Date:	**08/03/2023 13:35**	**Analyst:**	**NM1**	**Inj. Vol:**	**1 uL**
Prep Date:	**08/02/2023 12:36**	**Aliquot:**	**1058.73 mL**	**Final Volume:**	**1 mL**
Data File:	**S080323\s4H0315.D**	**Column:**	**DB-5ms**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	Dimethylphthalate	U	0.283	ug/L	0.283	0.945
117-84-0	Di-n-octylphthalate	U	0.283	ug/L	0.283	0.945
70-30-4	Hexachlorophene	U	158	ug/L	158	472

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**631221**	**Date Collected:**	**07/27/2023 09:55**	**Matrix:**	**GROUND WATER**
Lab Sample ID:	**631221004**	**Date Received:**	**07/28/2023 09:30**		
		Client:	**TRCI001**	**Project:**	**TRCI00123**
Client ID:	**16WC1A**	**Method:**	**SW846 3510C/8270E**	**SOP Ref:**	**GL-OA-E-009**
Batch ID:	**2469792**	**Inst:**	**MSD4.I**	**Dilution:**	**1**
Run Date:	**08/03/2023 13:56**	**Analyst:**	**NM1**	**Inj. Vol:**	**1 uL**
Prep Date:	**08/02/2023 12:36**	**Aliquot:**	**1050 mL**	**Final Volume:**	**1 mL**
Data File:	**S080323\s4H0316.D**	**Column:**	**DB-5ms**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	Dimethylphthalate	U	0.286	ug/L	0.286	0.952
117-84-0	Di-n-octylphthalate	U	0.286	ug/L	0.286	0.952
70-30-4	Hexachlorophene	U	159	ug/L	159	476

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**631221**	**Date Collected:**	**07/27/2023 10:20**	**Matrix:**	**GROUND WATER**
Lab Sample ID:	**631221005**	**Date Received:**	**07/28/2023 09:30**		
		Client:	**TRCI001**	**Project:**	**TRCI00123**
Client ID:	**16WDUPRE**	**Method:**	**SW846 3510C/8270E**	**SOP Ref:**	**GL-OA-E-009**
Batch ID:	**2472650**	**Inst:**	**MSD3.I**	**Dilution:**	**1**
Run Date:	**08/09/2023 19:17**	**Analyst:**	**MU1**	**Inj. Vol:**	**1 uL**
Prep Date:	**08/09/2023 12:16**	**Aliquot:**	**1065.37 mL**	**Final Volume:**	**1 mL**
Data File:	**S080923.S\s3H0909.D**	**Column:**	**DB-5ms**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	Dimethylphthalate	hU	0.282	ug/L	0.282	0.939
117-84-0	Di-n-octylphthalate	hU	0.282	ug/L	0.282	0.939
70-30-4	Hexachlorophene	hU	157	ug/L	157	469

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**631221**	**Date Collected:**	**07/27/2023 10:20**	**Matrix:**	**GROUND WATER**
Lab Sample ID:	**631221005**	**Date Received:**	**07/28/2023 09:30**		
		Client:	**TRCI001**	**Project:**	**TRCI00123**
Client ID:	**16WDUP**	**Method:**	**SW846 3510C/8270E**	**SOP Ref:**	**GL-OA-E-009**
Batch ID:	**2469792**	**Inst:**	**MSD4.I**	**Dilution:**	**1**
Run Date:	**08/03/2023 15:01**	**Analyst:**	**NM1**	**Inj. Vol:**	**1 uL**
Prep Date:	**08/02/2023 12:36**	**Aliquot:**	**1062.28 mL**	**Final Volume:**	**1 mL**
Data File:	**S080323\s4H0319.D**	**Column:**	**DB-5ms**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	Dimethylphthalate	U	0.282	ug/L	0.282	0.941
117-84-0	Di-n-octylphthalate	U	0.282	ug/L	0.282	0.941
70-30-4	Hexachlorophene	U	157	ug/L	157	471

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**631221**	**Date Collected:**	**07/26/2023 12:05**	**Matrix:**	**GROUND WATER**
Lab Sample ID:	**631221006**	**Date Received:**	**07/28/2023 09:30**		
		Client:	**TRCI001**	**Project:**	**TRCI00123**
Client ID:	**16WC1B**	**Method:**	**SW846 3510C/8270E**	**SOP Ref:**	**GL-OA-E-009**
Batch ID:	**2469792**	**Inst:**	**MSD4.I**	**Dilution:**	**1**
Run Date:	**08/03/2023 15:22**	**Analyst:**	**NM1**	**Inj. Vol:**	**1 uL**
Prep Date:	**08/02/2023 12:36**	**Aliquot:**	**1029.86 mL**	**Final Volume:**	**1 mL**
Data File:	**S080323\s4H0320.D**	**Column:**	**DB-5ms**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	Dimethylphthalate	U	0.291	ug/L	0.291	0.971
117-84-0	Di-n-octylphthalate	U	0.291	ug/L	0.291	0.971
70-30-4	Hexachlorophene	U	162	ug/L	162	486

Quality Control Summary

Surrogate Recovery Report

SDG Number: 631221

Matrix Type: LIQUID

Sample ID	Client ID	2FP %REC	PHL %REC	NBZ %REC	FBP %REC	TBP %REC	TPH %REC
1205476111	MB for batch 2469789	38	28	73	74	80	77
1205476112	LCS for batch 2469789	36	28	68	75	85	74
631221001	16C1	34	24	68	64	74	38
631221002	16MW8	32	24	68	68	74	47
631221003	16MW9	45	30	82	80	90	52
631221004	16WC1A	33	23	68	68	77	48
1205476115	16WC1AMS	51	43	62	71	85	73
1205476116	16WC1AMSD	40	37	59	70	86	69
631221005	16WDUP	12	12 *	35 *	38 *	21 *	19 *
631221006	16WC1B	32	23	79	78	71	79
1205481839	MB for batch 2472650	29	21	55	56	47	53
1205481840	LCS for batch 2472650	23	18	51	50	43	37
631221005	16WDUPRE	27	19	55	51	47	41
1205481843	FHRCRAPOC_02445MS	46	41	65	64	59	60
1205481844	FHRCRAPOC_02445MSD	39	37	59	60	61	62

Surrogate		Acceptance Limits
2FP	= 2-Fluorophenol	(11%-79%)
PHL	= Phenol-d5	(15%-85%)
NBZ	= Nitrobenzene-d5	(39%-112%)
FBP	= 2-Fluorobiphenyl	(39%-112%)
TBP	= 2,4,6-Tribromophenol	(37%-132%)
TPH	= p-Terphenyl-d14	(24%-129%)

* Recovery outside Acceptance Limits

Column to be used to flag recovery values

D Sample Diluted

Semi-Volatile

Quality Control Summary
Spike Recovery Report

SDG Number: 631221
Sample Type: Laboratory Control Sample
Client ID: LCS for batch 2469789
Matrix: WATER
Lab Sample ID: 1205476112
Instrument: MSD4.I
Analysis Date: 08/03/2023 11:26
Dilution: 1
Analyst: NM1
Prep Batch ID: 2469789
Inj. Vol: 1 uL
Batch ID: 2469792

CAS No.		Parmname	Amount Added ug/L	Sample Conc. ug/L	Spike Conc. ug/L	Recovery %	Acceptance Limits
131-11-3	LCS	Dimethylphthalate	50.0	0.0	43.0	86	62-123
117-84-0	LCS	Di-n-octylphthalate	50.0	0.0	40.8	82	50-125

Semi-Volatile

Quality Control Summary
Spike Recovery Report

SDG Number: 631221
Sample Type: Matrix Spike
Client ID: 16WC1AMS
Matrix: GROUND WATER
Lab Sample ID: 1205476115
Instrument: MSD4.I
Analysis Date: 08/03/2023 14:18
Dilution: 1
Analyst: NM1
Prep Batch ID: 2469789
Inj. Vol: 1 uL
Batch ID: 2469792

CAS No.		Parmname	Amount Added ug/L	Sample Conc. ug/L		Spike Conc. ug/L	Recovery %	Acceptance Limits
131-11-3	MS	Dimethylphthalate	100	0.000	U	81.7	82	50-130
117-84-0	MS	Di-n-octylphthalate	100	0.000	U	77.5	77	38-128

Semi-Volatile

Quality Control Summary
Spike Recovery Report

SDG Number: **631221**
Sample Type: **Matrix Spike Duplicate**
Client ID: **16WC1AMSD**
Matrix: **GROUND WATER**
Lab Sample ID: **1205476116**
Instrument: **MSD4.I**
Analysis Date: **08/03/2023 14:39**
Dilution: **1**
Analyst: **NM1**
Prep Batch ID: **2469789**
Inj. Vol: **1 uL**
Batch ID: **2469792**

CAS No.		Parmname	Amount Added ug/L	Sample Conc. ug/L		Spike Conc. ug/L	Recovery %	Acceptance Limits	RPD %	Acceptance Limits
131-11-3	MSD	Dimethylphthalate	100	0.000	U	85.6	86	50-130	5	0-50
117-84-0	MSD	Di-n-octylphthalate	100	0.000	U	83.3	83	38-128	7	0-80

Semi-Volatile

Quality Control Summary
Spike Recovery Report

SDG Number: 631221
Sample Type: Laboratory Control Sample
Client ID: LCS for batch 2472650
Matrix: WATER
Lab Sample ID: 1205481840
Instrument: MSD3.I
Analysis Date: 08/09/2023 18:34
Dilution: 1
Analyst: MU1
Prep Batch ID: 2472647
Inj. Vol: 1 uL
Batch ID: 2472650

CAS No.		Parmname	Amount Added ug/L	Sample Conc. ug/L	Spike Conc. ug/L	Recovery %	Acceptance Limits
131-11-3	LCS	Dimethylphthalate	50.0	0.0	27.4	55 *	62-123
117-84-0	LCS	Di-n-octylphthalate	50.0	0.0	28.6	57	50-125

Semi-Volatile

Quality Control Summary
Spike Recovery Report

SDG Number: **631221**
Sample Type: **Matrix Spike**
Client ID: **FHRCRAPOC_02445MS**
Matrix: **GROUND WATER**
Lab Sample ID: **1205481843**
Instrument: **MSD3.I**
Analysis Date: **08/09/2023 20:01**
Dilution: **1**
Analyst: **MU1**
Prep Batch ID: **2472647**
Inj. Vol: **1 uL**
Batch ID: **2472650**

CAS No.		Parmname	Amount Added ug/L	Sample Conc. ug/L		Spike Conc. ug/L	Recovery %	Acceptance Limits
131-11-3	MS	Dimethylphthalate	112	0.000	U	81.9	73	50-130
117-84-0	MS	Di-n-octylphthalate	112	0.000	U	93.8	83	38-128

Quality Control Summary
Spike Recovery Report

SDG Number: **631221**
Sample Type: **Matrix Spike Duplicate**
Client ID: **FHRCRAPOC_02445MSD**
Matrix: **GROUND WATER**
Lab Sample ID: **1205481844**
Instrument: **MSD3.I**
Analysis Date: **08/09/2023 20:22**
Dilution: **1**
Analyst: **MU1**
Prep Batch ID: **2472647**
Inj. Vol: **1 uL**
Batch ID: **2472650**

CAS No.		Parmname	Amount Added ug/L	Sample Conc. ug/L		Spike Conc. ug/L	Recovery %	Acceptance Limits	RPD %	Acceptance Limits
131-11-3	MSD	Dimethylphthalate	112	0.000	U	85.1	76	50-130	4	0-50
117-84-0	MSD	Di-n-octylphthalate	112	0.000	U	99.9	89	38-128	6	0-80

Method Blank Summary

SDG Number:	**631221**	**Client:**	**TRCI001**	**Matrix:**	**WATER**
Client ID:	**MB for batch 2469789**	**Instrument ID:**	**MSD4.I**	**Data File:**	**S080323\s4H0308.D**
Lab Sample ID:	**1205476111**	**Prep Date:**	**08/02/2023 12:36**	**Analyzed:**	**08/03/23 11:05**
Column:	**DB-5ms**				

This method blank applies to the following samples and quality control samples:

	Client Sample ID	Lab Sample ID	File ID	Date Analyzed	Time Analyzed
01	LCS for batch 2469789	1205476112	S080323\s4H0309.D	08/03/23	1126
02	16C1	631221001	S080323\s4H0313.D	08/03/23	1252
03	16MW8	631221002	S080323\s4H0314.D	08/03/23	1313
04	16MW9	631221003	S080323\s4H0315.D	08/03/23	1335
05	16WC1A	631221004	S080323\s4H0316.D	08/03/23	1356
06	16WC1AMS	1205476115	S080323\s4H0317.D	08/03/23	1418
07	16WC1AMSD	1205476116	S080323\s4H0318.D	08/03/23	1439
08	16WDUP	631221005	S080323\s4H0319.D	08/03/23	1501
09	16WC1B	631221006	S080323\s4H0320.D	08/03/23	1522

Method Blank Summary

SDG Number:	**631221**	**Client:**	**TRCI001**	**Matrix:**	**WATER**
Client ID:	**MB for batch 2472650**	**Instrument ID:**	**MSD3.I**	**Data File:**	**S080923.S\s3H0906.D**
Lab Sample ID:	**1205481839**	**Prep Date:**	**08/09/2023 12:16**	**Analyzed:**	**08/09/23 18:12**
Column:	**DB-5ms**				

This method blank applies to the following samples and quality control samples:

	Client Sample ID	Lab Sample ID	File ID	Date Analyzed	Time Analyzed
01	LCS for batch 2472650	1205481840	S080923.S\s3H0907.D	08/09/23	1834
02	16WDUPRE	631221005	S080923.S\s3H0909.D	08/09/23	1917
03	FHRCRAPOC_02445MS	1205481843	S080923.S\s3H0911.D	08/09/23	2001
04	FHRCRAPOC_02445MSD	1205481844	S080923.S\s3H0912.D	08/09/23	2022

Instrument Performance Check

DFTPP

Lab Name GEL Laboratories LLC **Client SDG:** 631221

Instrument ID: MSD3.I **Injection Date/Time:** 05-AUG-23 10:40

Column Description: DB-5ms **Lab File ID** S080523a\s3H0501.D

m/e	Ion Abundance Criteria	% Relative Abundance
68	Less than 2% of mass 69	1.6
69	Present	48.6
70	Less than 2% of mass 69	0
197	Less than 2% of mass 198	0
198	Base Peak or Present	74.4
199	5 - 9% of mass 198	6.9
365	Greater than 1% of Base Peak	4.2
441	Less than 150% of mass 443	89.1
442	Base Peak or Present	100
443	15 - 24% of mass 442	19

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

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
ICALMIX[A]	WBN230731-01.1	S080523a\s3H0502.D	05-AUG-23 10:57
ICALMIX[A]	WBN230731-02.1	S080523a\s3H0503.D	05-AUG-23 11:22
ICALMIX[A]	WBN230731-03.1	S080523a\s3H0504.D	05-AUG-23 11:46
ICALMIX[A]	WBN230731-04.6	S080523a\s3H0505.D	05-AUG-23 12:11
ICALMIX[A]	WBN230731-05	S080523a\s3H0506.D	05-AUG-23 12:35
ICALMIX[A]	WBN230731-06	S080523a\s3H0507.D	05-AUG-23 12:59
ICALMIX[A]	WBN230731-07	S080523a\s3H0508.D	05-AUG-23 13:24
ICALMIX[A]	WBN230731-08	S080523a\s3H0509.D	05-AUG-23 13:48
ICVMIX[A]01	WBN230706-43.2	S080523a\s3H0510.D	05-AUG-23 14:13

Instrument Performance Check

DFTPP

Lab Name GEL Laboratories LLC **Client SDG:** 631221

Instrument ID: MSD3.I **Injection Date/Time:** 06-AUG-23 11:51

Column Description: DB-5ms **Lab File ID** S080523a\s3H0511.D

m/e	Ion Abundance Criteria	% Relative Abundance
68	Less than 2% of mass 69	1.7
69	Present	49.3
70	Less than 2% of mass 69	0.4
197	Less than 2% of mass 198	0.3
198	Base Peak or Present	79.2
199	5 - 9% of mass 198	6.7
365	Greater than 1% of Base Peak	4.4
441	Less than 150% of mass 443	89.8
442	Base Peak or Present	100
443	15 - 24% of mass 442	19.1

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

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
ICALMIX[E]	WBN230710-31	S080523a\s3H0538.D	06-AUG-23 20:41
ICALMIX[E]	WBN230710-32	S080523a\s3H0539.D	06-AUG-23 21:00
ICALMIX[E]	WBN230710-33.1	S080523a\s3H0540.D	06-AUG-23 21:19
ICALMIX[E]	WBN230710-34	S080523a\s3H0541.D	06-AUG-23 21:37
ICALMIX[E]	WBN230710-35	S080523a\s3H0542.D	06-AUG-23 21:56
ICALMIX[E]	WBN230710-37	S080523a\s3H0543.D	06-AUG-23 22:14
ICVMIX[E]02	WBN230602-37.2	S080523a\s3H0544.D	06-AUG-23 22:33
CCVMIX[A]01	WBN230731-04.11	S080923.S\s3H0901.D	09-AUG-23 16:29
CCVMIX[E]02	WBN230710-33.2	S080923.S\s3H0905.D	09-AUG-23 17:54
BLK02	1205481839	S080923.S\s3H0906.D	09-AUG-23 18:12
BLK02LCS	1205481840	S080923.S\s3H0907.D	09-AUG-23 18:34
16WDUPRE	631221005	S080923.S\s3H0909.D	09-AUG-23 19:17
FHRCRAPOC_02445MS	1205481843	S080923.S\s3H0911.D	09-AUG-23 20:01
FHRCRAPOC_02445MSD	1205481844	S080923.S\s3H0912.D	09-AUG-23 20:22

Instrument Performance Check

DFTPP

Lab Name GEL Laboratories LLC **Client SDG:** 631221

Instrument ID: MSD4.I **Injection Date/Time:** 11-JUL-23 17:21

Column Description: DB-5ms **Lab File ID** S071123ICAL\s4G1101.D

m/e	Ion Abundance Criteria	% Relative Abundance
68	Less than 2% of mass 69	0
69	Present	36
70	Less than 2% of mass 69	0
197	Less than 2% of mass 198	0
198	Base Peak or Present	51.2
199	5 - 9% of mass 198	6.7
365	Greater than 1% of Base Peak	5.2
441	Less than 150% of mass 443	78.6
442	Base Peak or Present	100
443	15 - 24% of mass 442	19.7

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

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
ICALMIX[A]	WBN230627-01.1	S071123ICAL\s4G1102.D	11-JUL-23 17:37
ICALMIX[A]	WBN230627-02.1	S071123ICAL\s4G1103.D	11-JUL-23 18:02
ICALMIX[A]	WBN230627-03.2	S071123ICAL\s4G1104.D	11-JUL-23 18:26
ICALMIX[A]	WBN230627-04.7	S071123ICAL\s4G1105.D	11-JUL-23 18:51
ICALMIX[A]	WBN230627-05	S071123ICAL\s4G1106.D	11-JUL-23 19:15
ICALMIX[A]	WBN230627-06	S071123ICAL\s4G1107.D	11-JUL-23 19:40
ICALMIX[A]	WBN230627-07	S071123ICAL\s4G1108.D	11-JUL-23 20:04
ICALMIX[A]	WBN230627-08	S071123ICAL\s4G1109.D	11-JUL-23 20:28
ICVMIX[A]01	WBN230706-43.2	S071123ICAL\s4G1110.D	11-JUL-23 20:53

Instrument Performance Check

DFTPP

Lab Name GEL Laboratories LLC **Client SDG:** 631221

Instrument ID: MSD4.I **Injection Date/Time:** 12-JUL-23 09:34

Column Description: DB-5ms **Lab File ID** S071123ICAL\s4G1111.D

m/e	Ion Abundance Criteria	% Relative Abundance
68	Less than 2% of mass 69	0
69	Present	36.2
70	Less than 2% of mass 69	0.3
197	Less than 2% of mass 198	0.5
198	Base Peak or Present	54.5
199	5 - 9% of mass 198	6.9
365	Greater than 1% of Base Peak	4.9
441	Less than 150% of mass 443	78
442	Base Peak or Present	100
443	15 - 24% of mass 442	19.7

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

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
ICALMIX[E]	WBN230710-31.1	S071123ICAL\s4G1138.D	12-JUL-23 18:21
ICALMIX[E]	WBN230710-32	S071123ICAL\s4G1139.D	12-JUL-23 18:40
ICALMIX[E]	WBN230710-33	S071123ICAL\s4G1140.D	12-JUL-23 18:58
ICALMIX[E]	WBN230710-34	S071123ICAL\s4G1141.D	12-JUL-23 19:16
ICALMIX[E]	WBN230710-35	S071123ICAL\s4G1142.D	12-JUL-23 19:35
ICALMIX[E]	WBN230710-37	S071123ICAL\s4G1143.D	12-JUL-23 19:53
ICVMIX[E]02	WBN230602-37.1	S071123ICAL\s4G1144.D	12-JUL-23 20:12
CCVMIX[A]01	WBN230731-04.8	S080323\s4H0302.D	03-AUG-23 09:02
CCVMIX[E]02	WBN230710-33.1	S080323\s4H0306.D	03-AUG-23 10:25
BLK01	1205476111	S080323\s4H0308.D	03-AUG-23 11:05
BLK01LCS	1205476112	S080323\s4H0309.D	03-AUG-23 11:26
16C1	631221001	S080323\s4H0313.D	03-AUG-23 12:52
16MW8	631221002	S080323\s4H0314.D	03-AUG-23 13:13
16MW9	631221003	S080323\s4H0315.D	03-AUG-23 13:35
16WC1A	631221004	S080323\s4H0316.D	03-AUG-23 13:56
16WC1AMS	1205476115	S080323\s4H0317.D	03-AUG-23 14:18
16WC1AMSD	1205476116	S080323\s4H0318.D	03-AUG-23 14:39
16WDUP	631221005	S080323\s4H0319.D	03-AUG-23 15:01

Instrument Performance Check

DFTPP

Lab Name GEL Laboratories LLC **Client SDG:** 631221

Instrument ID: MSD4.I **Injection Date/Time:** 12-JUL-23 09:34

Column Description: DB-5ms **Lab File ID** S071123ICAL\s4G1111.D

m/e	Ion Abundance Criteria	% Relative Abundance
68	Less than 2% of mass 69	0
69	Present	36.2
70	Less than 2% of mass 69	0.3
197	Less than 2% of mass 198	0.5
198	Base Peak or Present	54.5
199	5 - 9% of mass 198	6.9
365	Greater than 1% of Base Peak	4.9
441	Less than 150% of mass 443	78
442	Base Peak or Present	100
443	15 - 24% of mass 442	19.7

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

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
16WC1B	631221006	S080323\s4H0320.D	03-AUG-23 15:22

Internal Standard
Area and RT Summary

Lab Name : GEL Laboratories LLC

Client SDG: 631221

Instrument: MSD3.I

STD Analysis Time: 09-AUG-23 16:29

GC Column: DB-5ms

Data File: S080923.S\s3H0901.D

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10		Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area #	RT #	Area #	RT #	Area #	RT #	Area #	RT #	Area #	RT #	Area #	RT #
12 Hour STD	105859	4.1	432066	5.53	217101	7.26	450178	8.56	501002	10.96	529581	13.15
Upper Limit	211718	4.6	864132	6.03	434202	7.76	900356	9.06	1002004	11.46	1059162	13.65
Lower Limit	52930	3.6	216033	5.03	108551	6.76	225089	8.06	250501	10.46	264791	12.65
Sample ID												
BLK02	108656	4.11	440472	5.53	218495	7.26	448094	8.56	447968	11.0	463088	13.2
BLK02LCS	117033	4.11	478023	5.53	243053	7.26	493850	8.56	519407	11.0	537602	13.2
16WDUPRE	112631	4.11	457492	5.53	232586	7.26	477868	8.56	486541	11.0	504785	13.2
FHRCRAPOC_02445MS	123801	4.11	508942	5.53	255573	7.26	516445	8.56	551095	11.0	565820	13.2
FHRCRAPOC_02445MSD	119613	4.11	488008	5.53	247651	7.26	501979	8.56	539467	11.0	555595	13.2

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = + 0.50 minutes of internal standard RT
RT Lower Limit = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk
* Value outside of QC Limits

Internal Standard
Area and RT Summary

Lab Name : GEL Laboratories LLC

Client SDG: 631221

Instrument: MSD4.I

STD Analysis Time: 03-AUG-23 09:02

GC Column: DB-5ms

Data File: S080323\s4H0302.D

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10		Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area #	RT #	Area #	RT #	Area #	RT #	Area #	RT #	Area #	RT #	Area #	RT #
12 Hour STD	184815	4.38	783925	5.75	381758	7.43	767078	8.72	913172	11.26	1035578	13.68
Upper Limit	369630	4.88	1567850	6.25	763516	7.93	1534156	9.22	1826344	11.76	2071156	14.18
Lower Limit	92408	3.88	391963	5.25	190879	6.93	383539	8.22	456586	10.76	517789	13.18
Sample ID												
BLK01	187896	4.38	721014	5.75	383637	7.42	805045	8.72	935986	11.3	1059116	13.7
BLK01LCS	181618	4.38	774578	5.75	379640	7.42	774567	8.72	919129	11.3	1042289	13.7
16C1	161428	4.38	647712	5.75	357279	7.42	741169	8.72	874743	11.3	988959	13.7
16MW8	159168	4.38	644531	5.75	351947	7.42	728997	8.72	867910	11.3	979594	13.7
16MW9	152916	4.38	598090	5.75	319151	7.42	666213	8.72	789751	11.3	881390	13.7
16WC1A	169567	4.38	661965	5.75	358815	7.42	743183	8.72	881097	11.3	992936	13.7
16WC1AMS	192217	4.38	840019	5.75	416889	7.42	861902	8.72	1015806	11.3	1144503	13.7
16WC1AMSD	172462	4.38	771025	5.75	382658	7.42	789424	8.72	936880	11.3	1065223	13.7
16WDUP	167003	4.38	675689	5.75	361464	7.42	773225	8.72	908376	11.3	1029702	13.7
16WC1B	168173	4.38	669276	5.75	357197	7.42	756349	8.72	893521	11.3	990500	13.7

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = + 0.50 minutes of internal standard RT
RT Lower Limit = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk
* Value outside of QC Limits

Sample Data

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**631221**	**Date Collected:**	**07/27/2023 10:20**	**Matrix:**	**GROUND WATER**
Lab Sample ID:	**631221005**	**Date Received:**	**07/28/2023 09:30**		
		Client:	**TRCI001**	**Project:**	**TRCI00123**
Client ID:	**16WDUPRE**	**Method:**	**SW846 3510C/8270E**	**SOP Ref:**	**GL-OA-E-009**
Batch ID:	**2472650**	**Inst:**	**MSD3.I**	**Dilution:**	**1**
Run Date:	**08/09/2023 19:17**	**Analyst:**	**MU1**	**Inj. Vol:**	**1 uL**
Prep Date:	**08/09/2023 12:16**	**Aliquot:**	**1065.37 mL**	**Final Volume:**	**1 mL**
Data File:	**S080923.S\s3H0909.D**	**Column:**	**DB-5ms**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	Dimethylphthalate	hU	0.282	ug/L	0.282	0.939
117-84-0	Di-n-octylphthalate	hU	0.282	ug/L	0.282	0.939
70-30-4	Hexachlorophene	hU	157	ug/L	157	469

Quantitation Report

08/10/2023

Data Path : C:\msdchem\1\data\S080923.S\
Data File : s3H0909.D
Acq On : 09 Aug 2023 19:17
Operator : MU1
Sample : |631221005|2472650|1|SVM|2|TRCI|||
Misc : |MSD1C70E_L|GROUND WATER|16WDUP|mix[a,b,j,d,e]||
ALS Vial : 9 Sample Multiplier: 1

08/10/2023

Quant Time: Aug 10 09:18:10 2023
Quant Method : C:\msdchem\1\data\S080923.S\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:34:09 2023
Response via : Initial Calibration

Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	Dev(Min)
Internal Standards								
1) A 1,4-Dichlorobenzene-d4	152	4.111	4.107	1.000	112631	40.00	ng/uL	0.00
22) A Naphthalene-d8	136	5.526	5.525	1.000	457492	40.00	ng/uL	0.00
39) A Acenaphthene-d10	164	7.258	7.259	1.000	232586	40.00	ng/uL	0.00
64) A Phenanthrene-d10	188	8.559	8.559	1.000	477868	40.00	ng/uL	0.00
80) A Chrysene-d12	240	10.959	10.958	1.000	486541	40.00	ng/uL	0.00
88) A Perylene-d12	264	13.146	13.154	1.000	504785	40.00	ng/uL	0.00
96) B 1,4-Dichlorobenzene-d4	152	4.111	4.107	1.000	112631	40.00	ng/uL	0.00
112) B Naphthalene-d8	136	5.526	5.525	1.000	457492	40.00	ng/uL	0.00
120) B Acenaphthene-d10	164	7.258	7.259	1.000	232586	40.00	ng/uL	0.00
129) B Phenanthrene-d10	188	8.559	8.559	1.000	477868	40.00	ng/uL	0.00
142) B Chrysene-d12	240	10.959	10.958	1.000	486541	40.00	ng/uL	0.00
148) B Perylene-d12	264	13.146	13.154	1.000	504785	40.00	ng/uL	0.00
151) J Naphthalene-d8	136	5.526	5.525	1.000	457492	40.00	ng/uL	0.00
153) J Phenanthrene-d10	188	8.559	8.559	1.000	477868	40.00	ng/uL	0.00
156) J Chrysene-d12	240	10.959	10.958	1.000	486541	40.00	ng/uL	0.00
159) D Naphthalene-d8	136	5.526	5.525	1.000	457492	40.00	ng/uL	0.00
161) D Acenaphthene-d10	164	7.258	7.259	1.000	232586	40.00	ng/uL	0.00
164) D Phenanthrene-d10	188	8.559	8.559	1.000	477868	40.00	ng/uL	0.00
171) D Chrysene-d12	240	10.959	10.958	1.000	486541	40.00	ng/uL	0.00
173) E Naphthalene-d8	136	5.526	5.525	1.000	457492	40.00	ng/uL	0.00
175) E Perylene-d12	264	13.146	13.154	1.000	504785	40.00	ng/uL	0.00
System Monitoring Compounds								Dev(Min)
5) 2-Fluorophenol	112	2.802	2.803	0.681	102087	26.57	ng/uL	0.00
8) Phenol-d5	99	3.678	3.680	0.895	85507	18.54	ng/uL	0.00
23) Nitrobenzene-d5	82	4.712	4.712	0.853	120549	27.27	ng/uL	0.00
44) 2-Fluorobiphenyl	172	6.628	6.627	0.913	235336	25.36	ng/uL	0.00
63) 2,4,6-Tribromophenol	330	7.955	7.959	1.096	105276	47.07	ng/uL	0.00
79) p-Terphenyl-d14	244	9.889	9.890	1.155	266053	20.41	ng/uL	0.00

Compound	Amount	Range	Recovery
5) 2-Fluorophenol	100.000	11 - 79	27%
8) Phenol-d5	100.000	15 - 85	19%
23) Nitrobenzene-d5	50.000	39 - 112	55%
44) 2-Fluorobiphenyl	50.000	39 - 112	51%
63) 2,4,6-Tribromophenol	100.000	37 - 132	47%
79) p-Terphenyl-d14	50.000	24 - 129	41%

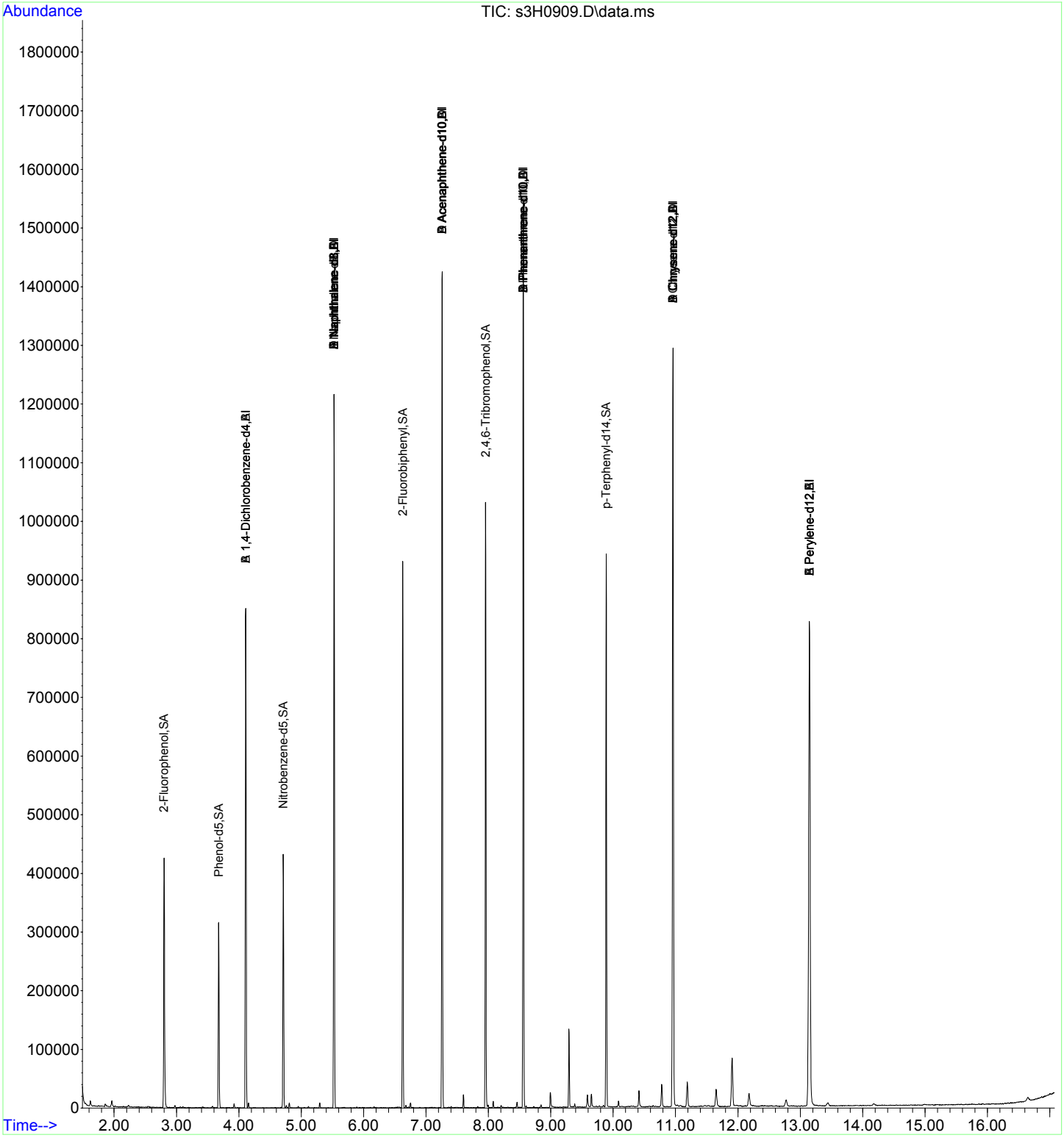
Target Compounds	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	QValue

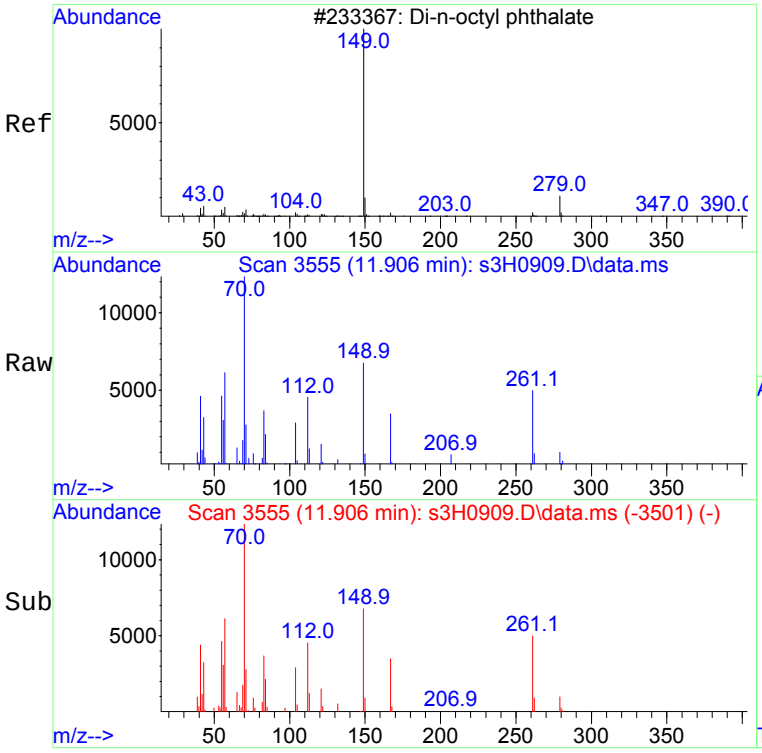
(#) = qualifier out of range (m) = manual integration (+) = signals summed
(A) = Over the calibration range (d) = deleted

Quantitation Report

Data Path : C:\msdchem\1\data\S080923.S\
Data File : s3H0909.D
Acq On : 09 Aug 2023 19:17
Operator : MU1
Sample : |631221005|2472650|1|SVM|2|TRCI|||
Misc : |MSD1C70E_L|GROUND WATER|16WDUP|mix[a,b,j,d,e]||
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 10 09:18:10 2023
Quant Method : C:\msdchem\1\data\S080923.S\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:34:09 2023
Response via : Initial Calibration

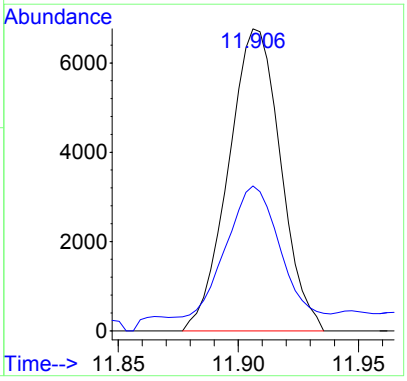




#87 BEFORE analyst DELETION
Di-n-octylphthalate
Concen: 0.79 ng/uL
RT: 11.906 min Scan# 3555
Delta R.T. 0.059 min
Lab File: s3H0909.D
Acq: 09 Aug 2023 19:17

Tgt Ion:149 Resp: 10195

Ion	Ratio	Lower	Upper
149	100		
43	48.5	0.0	39.5#



Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**631221**	**Date Collected:**	**07/27/2023 12:45**	**Matrix:**	**GROUND WATER**
Lab Sample ID:	**631221001**	**Date Received:**	**07/28/2023 09:30**		
		Client:	**TRCI001**	**Project:**	**TRCI00123**
Client ID:	**16C1**	**Method:**	**SW846 3510C/8270E**	**SOP Ref:**	**GL-OA-E-009**
Batch ID:	**2469792**	**Inst:**	**MSD4.I**	**Dilution:**	**1**
Run Date:	**08/03/2023 12:52**	**Analyst:**	**NM1**	**Inj. Vol:**	**1 uL**
Prep Date:	**08/02/2023 12:36**	**Aliquot:**	**1057.8 mL**	**Final Volume:**	**1 mL**
Data File:	**S080323\s4H0313.D**	**Column:**	**DB-5ms**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	Dimethylphthalate	U	0.284	ug/L	0.284	0.945
117-84-0	Di-n-octylphthalate	U	0.284	ug/L	0.284	0.945
70-30-4	Hexachlorophene	U	158	ug/L	158	473

Quantitation Report

08/04/2023

Data Path : C:\msdchem\1\data\S080323\
Data File : s4H0313.D
Acq On : 03 Aug 2023 12:52
Operator : NM1
Sample : |631221001|2469792|1|SVM|1|TRCI|||
Misc : |MSD1C70E_L|GROUND WATER|16C1|mix[a,b,j,d,e]||
ALS Vial : 12 Sample Multiplier: 1

08/04/2023

Quant Time: Aug 04 09:13:38 2023
Quant Method : C:\msdchem\1\data\S080323\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:54:56 2023
Response via : Initial Calibration

Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	Dev(Min)
Internal Standards								
1) A 1,4-Dichlorobenzene-d4	152	4.377	4.377	1.000	161428	40.00	ng/uL	0.00
22) A Naphthalene-d8	136	5.752	5.752	1.000	647712	40.00	ng/uL	0.00
39) A Acenaphthene-d10	164	7.421	7.426	1.000	357279	40.00	ng/uL	0.00
64) A Phenanthrene-d10	188	8.715	8.720	1.000	741169	40.00	ng/uL	0.00
80) A Chrysene-d12	240	11.250	11.255	1.000	874743	40.00	ng/uL	0.00
88) A Perylene-d12	264	13.678	13.684	1.000	988959	40.00	ng/uL	0.00
96) B 1,4-Dichlorobenzene-d4	152	4.377	4.377	1.000	161428	40.00	ng/uL	0.00
112) B Naphthalene-d8	136	5.752	5.752	1.000	647712	40.00	ng/uL	0.00
120) B Acenaphthene-d10	164	7.421	7.426	1.000	357279	40.00	ng/uL	0.00
129) B Phenanthrene-d10	188	8.715	8.720	1.000	741169	40.00	ng/uL	0.00
142) B Chrysene-d12	240	11.250	11.255	1.000	874743	40.00	ng/uL	0.00
148) B Perylene-d12	264	13.678	13.684	1.000	988959	40.00	ng/uL	0.00
151) J Naphthalene-d8	136	5.752	5.752	1.000	647712	40.00	ng/uL	0.00
153) J Phenanthrene-d10	188	8.715	8.720	1.000	741169	40.00	ng/uL	0.00
156) J Chrysene-d12	240	11.250	11.255	1.000	874743	40.00	ng/uL	0.00
159) D Naphthalene-d8	136	5.752	5.752	1.000	647712	40.00	ng/uL	0.00
161) D Acenaphthene-d10	164	7.421	7.426	1.000	357279	40.00	ng/uL	0.00
164) D Phenanthrene-d10	188	8.715	8.720	1.000	741169	40.00	ng/uL	0.00
171) D Chrysene-d12	240	11.250	11.255	1.000	874743	40.00	ng/uL	0.00
173) E Naphthalene-d8	136	5.752	5.752	1.000	647712	40.00	ng/uL	0.00
175) E Perylene-d12	264	13.678	13.684	1.000	988959	40.00	ng/uL	0.00
System Monitoring Compounds								Dev(Min)
5) 2-Fluorophenol	112	3.077	3.083	0.703	168353	33.56	ng/uL	0.00
8) Phenol-d5	99	3.971	3.971	0.907	146777	23.65	ng/uL	0.00
23) Nitrobenzene-d5	82	4.982	4.987	0.866	184361	33.96	ng/uL	0.00
44) 2-Fluorobiphenyl	172	6.800	6.800	0.916	424761	32.08	ng/uL	0.00
63) 2,4,6-Tribromophenol	330	8.116	8.116	1.094	239309	73.72	ng/uL	0.00
79) p-Terphenyl-d14	244	10.057	10.057	1.154	380006	18.84	ng/uL	0.00

Compound	Amount	Range	Recovery
5) 2-Fluorophenol	100.000	11 - 79	34%
8) Phenol-d5	100.000	15 - 85	24%
23) Nitrobenzene-d5	50.000	39 - 112	68%
44) 2-Fluorobiphenyl	50.000	39 - 112	64%
63) 2,4,6-Tribromophenol	100.000	37 - 132	74%
79) p-Terphenyl-d14	50.000	24 - 129	38%

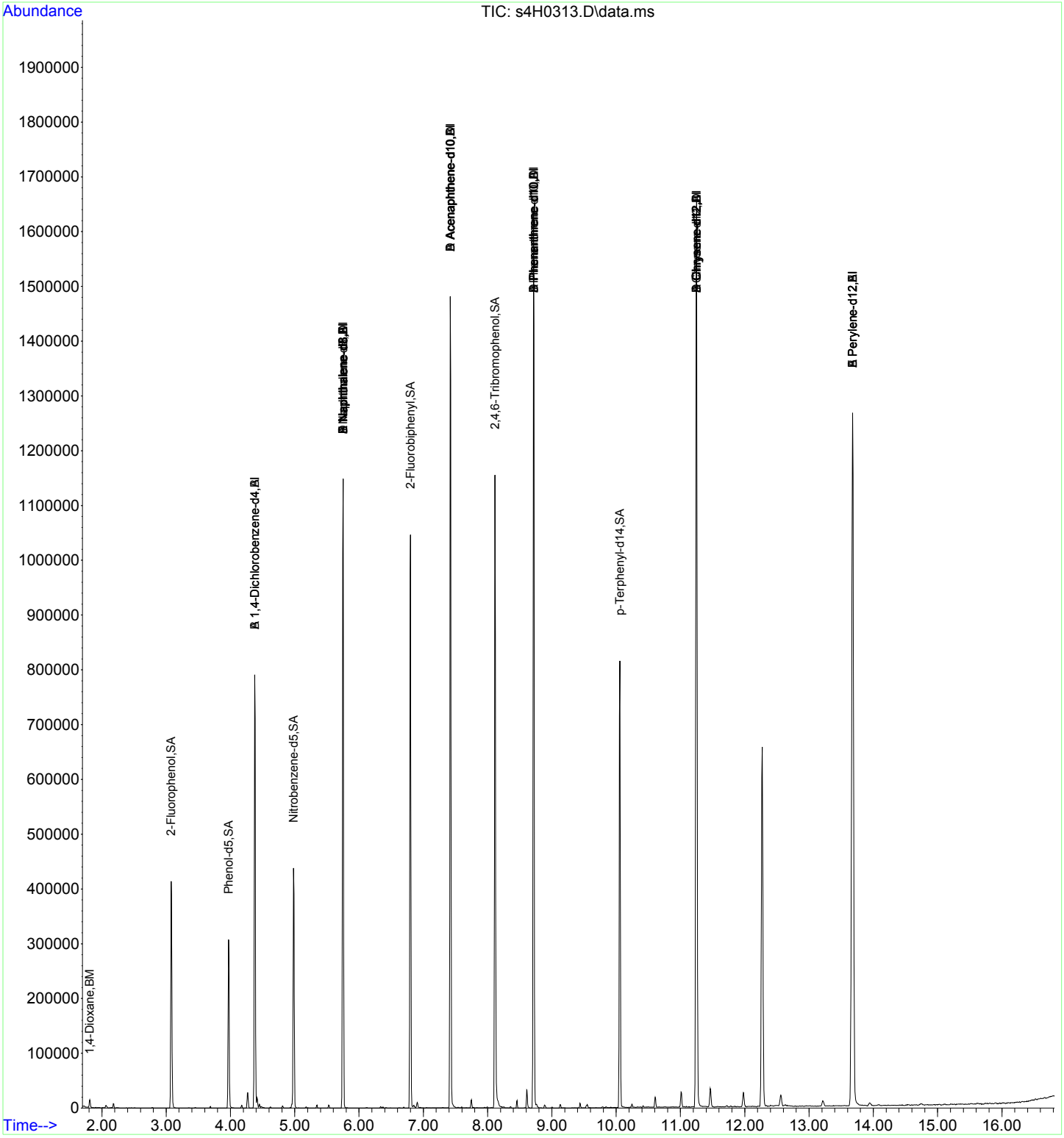
Target Compounds	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	QValue
97) 1,4-Dioxane	88	1.810	1.810	0.413	7140	3.15	ng/uL	93

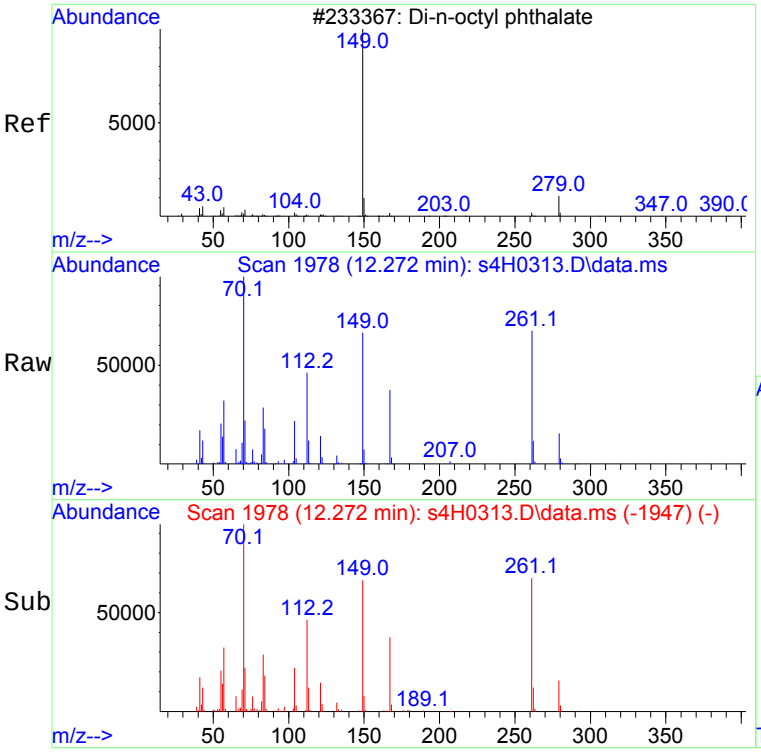
(#) = qualifier out of range (m) = manual integration (+) = signals summed
(A) = Over the calibration range (d) = deleted

Quantitation Report

Data Path : C:\msdchem\1\data\S080323\
Data File : s4H0313.D
Acq On : 03 Aug 2023 12:52
Operator : NM1
Sample : |631221001|2469792|1|SVM|1|TRCI|||
Misc : |MSD1C70E_L|GROUND WATER|16C1|mix[a,b,j,d,e]||
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 04 09:13:38 2023
Quant Method : C:\msdchem\1\data\S080323\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:54:56 2023
Response via : Initial Calibration

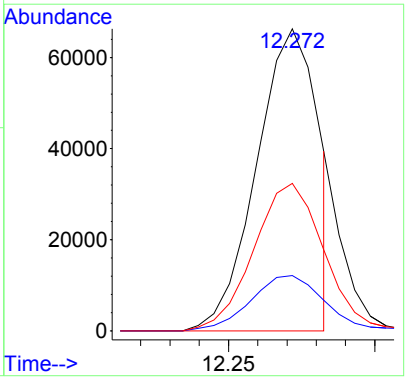


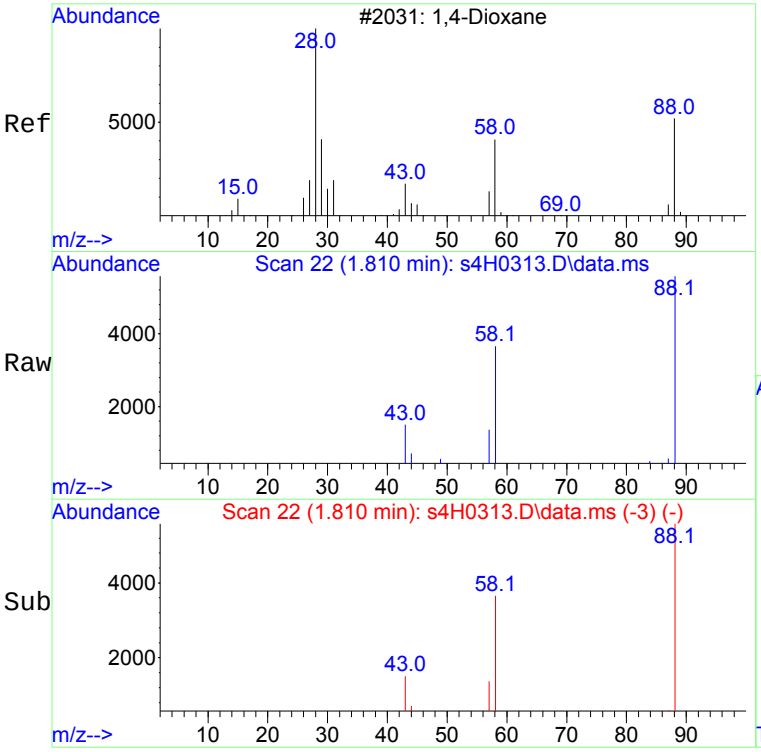


#87 BEFORE analyst DELETION
Di-n-octylphthalate
Concen: 3.85 ng/uL
RT: 12.272 min Scan# 1978
Delta R.T. 0.064 min
Lab File: s4H0313.D
Acq: 03 Aug 2023 12:52

Tgt Ion:149 Resp: 97412

Ion	Ratio	Lower	Upper
149	100		
43	19.6	0.0	37.7
57	50.0	0.0	36.7#

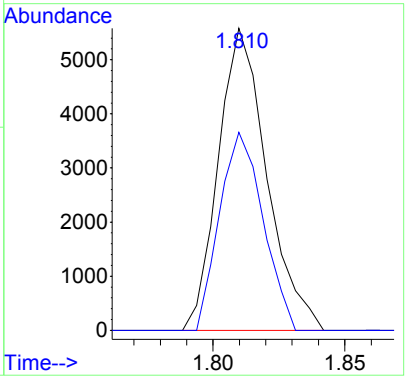




#97
1,4-Dioxane
Concen: 3.15 ng/uL
RT: 1.810 min Scan# 22
Delta R.T. 0.000 min
Lab File: s4H0313.D
Acq: 03 Aug 2023 12:52

Tgt Ion: 88 Resp: 7140

Ion	Ratio	Lower	Upper
88	100		
58	58.6	34.2	94.2



Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**631221**	**Date Collected:**	**07/26/2023 10:05**	**Matrix:**	**GROUND WATER**
Lab Sample ID:	**631221002**	**Date Received:**	**07/28/2023 09:30**		
		Client:	**TRCI001**	**Project:**	**TRCI00123**
Client ID:	**16MW8**	**Method:**	**SW846 3510C/8270E**	**SOP Ref:**	**GL-OA-E-009**
Batch ID:	**2469792**	**Inst:**	**MSD4.I**	**Dilution:**	**1**
Run Date:	**08/03/2023 13:13**	**Analyst:**	**NM1**	**Inj. Vol:**	**1 uL**
Prep Date:	**08/02/2023 12:36**	**Aliquot:**	**1063.47 mL**	**Final Volume:**	**1 mL**
Data File:	**S080323\s4H0314.D**	**Column:**	**DB-5ms**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	Dimethylphthalate	U	0.282	ug/L	0.282	0.940
117-84-0	Di-n-octylphthalate	U	0.282	ug/L	0.282	0.940
70-30-4	Hexachlorophene	U	157	ug/L	157	470

Quantitation Report

08/04/2023

Data Path : C:\msdchem\1\data\S080323\
Data File : s4H0314.D
Acq On : 03 Aug 2023 13:13
Operator : NM1
Sample : |631221002|2469792|1|SVM|1|TRCI|||
Misc : |MSD1C70E_L|GROUND WATER|16MW8|mix[a,b,j,d,e]||
ALS Vial : 13 Sample Multiplier: 1

08/04/2023

Quant Time: Aug 04 09:14:03 2023
Quant Method : C:\msdchem\1\data\S080323\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:54:56 2023
Response via : Initial Calibration

Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	Dev(Min)
Internal Standards								
1) A 1,4-Dichlorobenzene-d4	152	4.377	4.377	1.000	159168	40.00	ng/uL	0.00
22) A Naphthalene-d8	136	5.752	5.752	1.000	644531	40.00	ng/uL	0.00
39) A Acenaphthene-d10	164	7.420	7.426	1.000	351947	40.00	ng/uL	0.00
64) A Phenanthrene-d10	188	8.715	8.720	1.000	728997	40.00	ng/uL	0.00
80) A Chrysene-d12	240	11.250	11.255	1.000	867910	40.00	ng/uL	0.00
88) A Perylene-d12	264	13.678	13.684	1.000	979594	40.00	ng/uL	0.00
96) B 1,4-Dichlorobenzene-d4	152	4.377	4.377	1.000	159168	40.00	ng/uL	0.00
112) B Naphthalene-d8	136	5.752	5.752	1.000	644531	40.00	ng/uL	0.00
120) B Acenaphthene-d10	164	7.420	7.426	1.000	351947	40.00	ng/uL	0.00
129) B Phenanthrene-d10	188	8.715	8.720	1.000	728997	40.00	ng/uL	0.00
142) B Chrysene-d12	240	11.250	11.255	1.000	867910	40.00	ng/uL	0.00
148) B Perylene-d12	264	13.678	13.684	1.000	979594	40.00	ng/uL	0.00
151) J Naphthalene-d8	136	5.752	5.752	1.000	644531	40.00	ng/uL	0.00
153) J Phenanthrene-d10	188	8.715	8.720	1.000	728997	40.00	ng/uL	0.00
156) J Chrysene-d12	240	11.250	11.255	1.000	867910	40.00	ng/uL	0.00
159) D Naphthalene-d8	136	5.752	5.752	1.000	644531	40.00	ng/uL	0.00
161) D Acenaphthene-d10	164	7.420	7.426	1.000	351947	40.00	ng/uL	0.00
164) D Phenanthrene-d10	188	8.715	8.720	1.000	728997	40.00	ng/uL	0.00
171) D Chrysene-d12	240	11.250	11.255	1.000	867910	40.00	ng/uL	0.00
173) E Naphthalene-d8	136	5.752	5.752	1.000	644531	40.00	ng/uL	0.00
175) E Perylene-d12	264	13.678	13.684	1.000	979594	40.00	ng/uL	0.00
System Monitoring Compounds								Dev(Min)
5) 2-Fluorophenol	112	3.077	3.083	0.703	160702	32.49	ng/uL	0.00
8) Phenol-d5	99	3.971	3.971	0.907	147685	24.13	ng/uL	0.00
23) Nitrobenzene-d5	82	4.981	4.987	0.866	183802	34.02	ng/uL	0.00
44) 2-Fluorobiphenyl	172	6.800	6.800	0.916	442271	33.91	ng/uL	0.00
63) 2,4,6-Tribromophenol	330	8.116	8.116	1.094	236719	74.03	ng/uL	0.00
79) p-Terphenyl-d14	244	10.057	10.057	1.154	469798	23.68	ng/uL	0.00

Compound	Amount	Range	Recovery
5) 2-Fluorophenol	100.000	11 - 79	32%
8) Phenol-d5	100.000	15 - 85	24%
23) Nitrobenzene-d5	50.000	39 - 112	68%
44) 2-Fluorobiphenyl	50.000	39 - 112	68%
63) 2,4,6-Tribromophenol	100.000	37 - 132	74%
79) p-Terphenyl-d14	50.000	24 - 129	47%

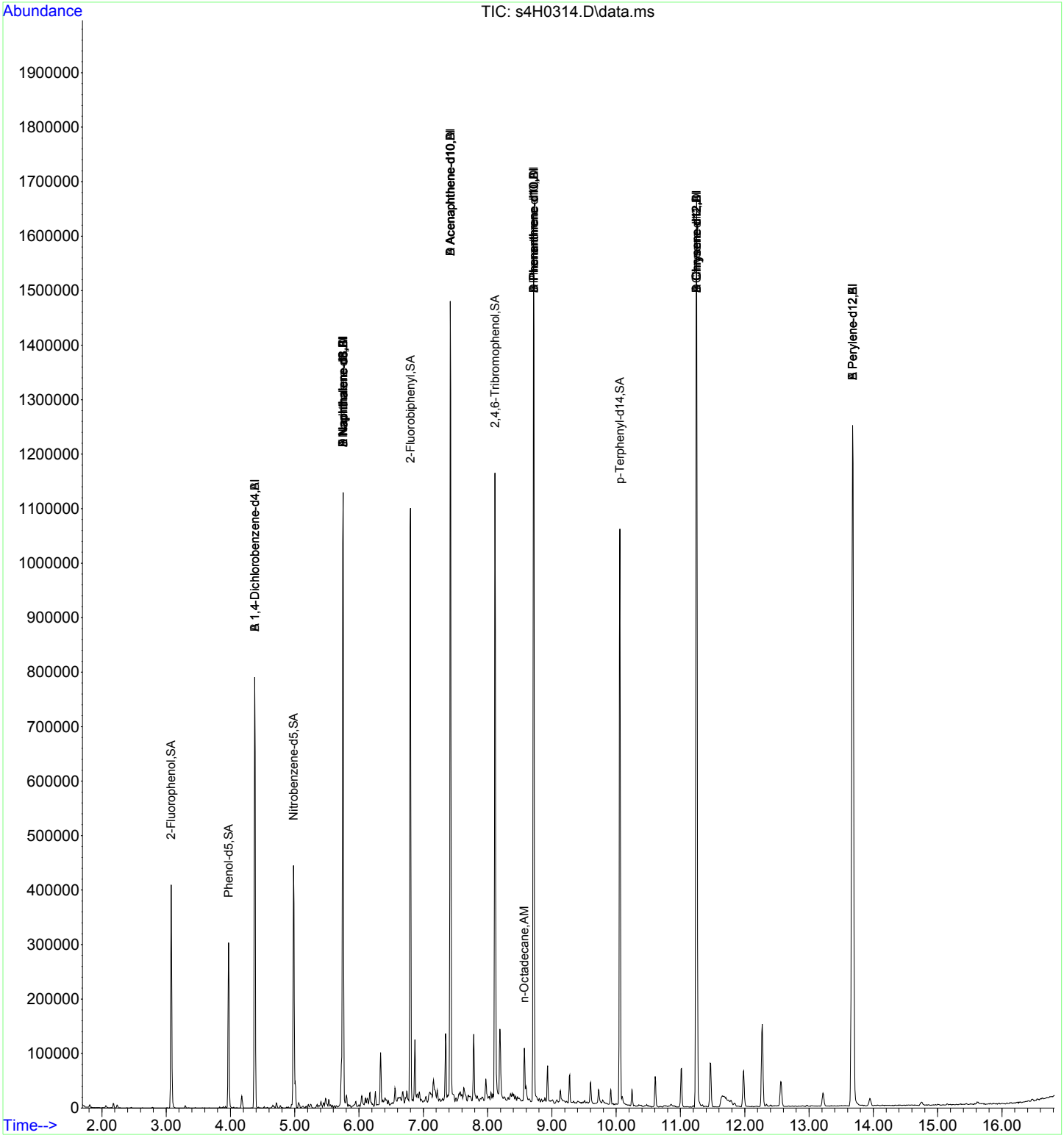
Target Compounds	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	QValue
71) n-Octadecane	57	8.570	8.576	0.983	23107	3.07	ng/uL	95

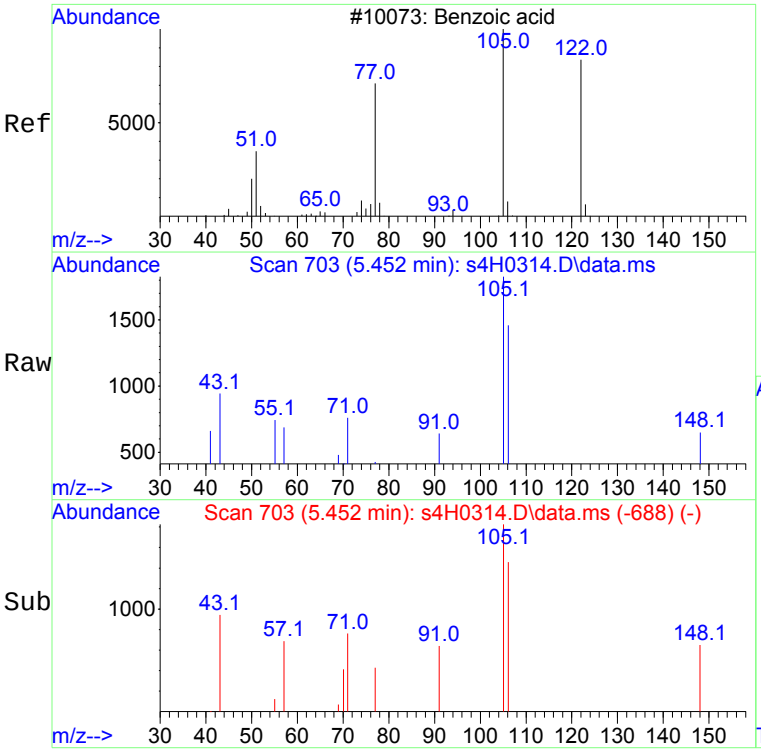
(#) = qualifier out of range (m) = manual integration (+) = signals summed
(A) = Over the calibration range (d) = deleted

Quantitation Report

Data Path : C:\msdchem\1\data\S080323\
Data File : s4H0314.D
Acq On : 03 Aug 2023 13:13
Operator : NM1
Sample : |631221002|2469792|1|SVM|1|TRCI|||
Misc : |MSD1C70E_L|GROUND WATER|16MW8|mix[a,b,j,d,e]||
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 04 09:14:03 2023
Quant Method : C:\msdchem\1\data\S080323\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:54:56 2023
Response via : Initial Calibration

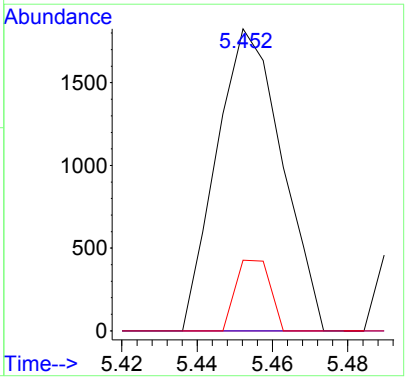


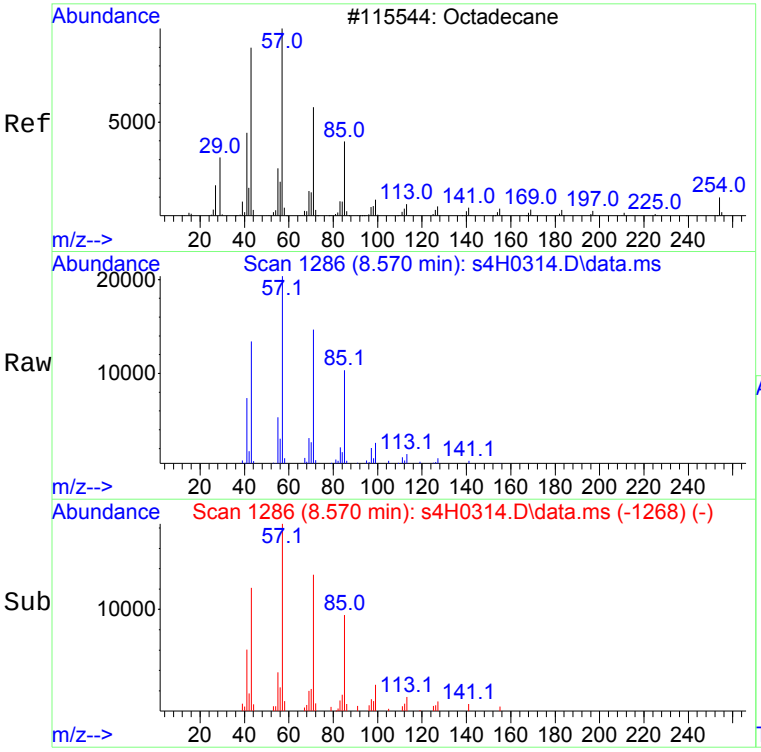


#30 BEFORE analyst DELETION
Benzoic acid
Concen: 7.79 ng/uL
RT: 5.452 min Scan# 703
Delta R.T. -0.021 min
Lab File: s4H0314.D
Acq: 03 Aug 2023 13:13

Tgt Ion:105 Resp: 2204

Ion	Ratio	Lower	Upper
105	100		
122	0.0	48.1	108.1#
77	0.0	38.8	98.8#

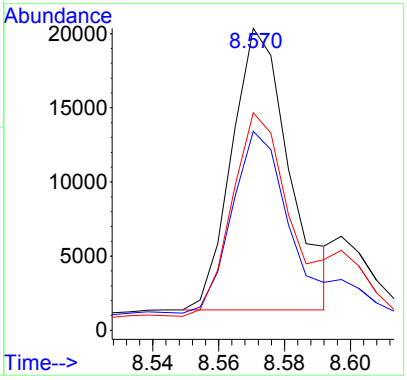


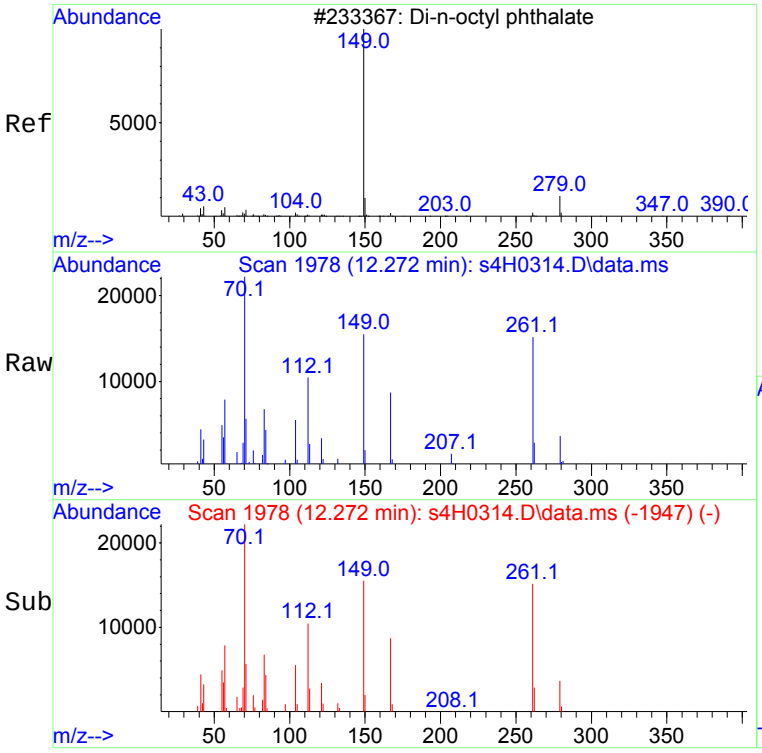


#71
n-Octadecane
Concen: 3.07 ng/uL
RT: 8.570 min Scan# 1286
Delta R.T. -0.005 min
Lab File: s4H0314.D
Acq: 03 Aug 2023 13:13

Tgt Ion: 57 Resp: 23107

Ion	Ratio	Lower	Upper
57	100		
43	62.6	37.9	97.9
71	68.1	41.1	101.1

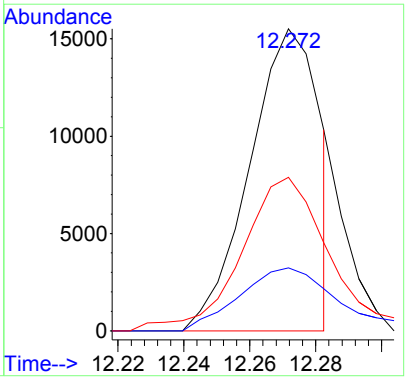




#87 BEFORE analyst DELETION
Di-n-octylphthalate
Concen: 0.92 ng/uL
RT: 12.272 min Scan# 1978
Delta R.T. 0.064 min
Lab File: s4H0314.D
Acq: 03 Aug 2023 13:13

Tgt Ion:149 Resp: 22981

Ion	Ratio	Lower	Upper
149	100		
43	23.5	0.0	37.7
57	54.3	0.0	36.7#



Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**631221**	**Date Collected:**	**07/27/2023 11:25**	**Matrix:**	**GROUND WATER**
Lab Sample ID:	**631221003**	**Date Received:**	**07/28/2023 09:30**		
		Client:	**TRCI001**	**Project:**	**TRCI00123**
Client ID:	**16MW9**	**Method:**	**SW846 3510C/8270E**	**SOP Ref:**	**GL-OA-E-009**
Batch ID:	**2469792**	**Inst:**	**MSD4.I**	**Dilution:**	**1**
Run Date:	**08/03/2023 13:35**	**Analyst:**	**NM1**	**Inj. Vol:**	**1 uL**
Prep Date:	**08/02/2023 12:36**	**Aliquot:**	**1058.73 mL**	**Final Volume:**	**1 mL**
Data File:	**S080323\s4H0315.D**	**Column:**	**DB-5ms**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	Dimethylphthalate	U	0.283	ug/L	0.283	0.945
117-84-0	Di-n-octylphthalate	U	0.283	ug/L	0.283	0.945
70-30-4	Hexachlorophene	U	158	ug/L	158	472

Quantitation Report

08/04/2023

Data Path : C:\msdchem\1\data\S080323\
Data File : s4H0315.D
Acq On : 03 Aug 2023 13:35
Operator : NM1
Sample : |631221003|2469792|1|SVM|1|TRCI|||
Misc : |MSD1C70E_L|GROUND WATER|16MW9|mix[a,b,j,d,e]||
ALS Vial : 14 Sample Multiplier: 1

08/04/2023

Quant Time: Aug 04 09:14:41 2023
Quant Method : C:\msdchem\1\data\S080323\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:54:56 2023
Response via : Initial Calibration

Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	Dev(Min)
Internal Standards								
1) A 1,4-Dichlorobenzene-d4	152	4.377	4.377	1.000	152916	40.00	ng/uL	0.00
22) A Naphthalene-d8	136	5.752	5.752	1.000	598090	40.00	ng/uL	0.00
39) A Acenaphthene-d10	164	7.421	7.426	1.000	319151	40.00	ng/uL	0.00
64) A Phenanthrene-d10	188	8.715	8.720	1.000	666213	40.00	ng/uL	0.00
80) A Chrysene-d12	240	11.250	11.255	1.000	789751	40.00	ng/uL	0.00
88) A Perylene-d12	264	13.679	13.684	1.000	881390	40.00	ng/uL	0.00
96) B 1,4-Dichlorobenzene-d4	152	4.377	4.377	1.000	152916	40.00	ng/uL	0.00
112) B Naphthalene-d8	136	5.752	5.752	1.000	598090	40.00	ng/uL	0.00
120) B Acenaphthene-d10	164	7.421	7.426	1.000	319151	40.00	ng/uL	0.00
129) B Phenanthrene-d10	188	8.715	8.720	1.000	666213	40.00	ng/uL	0.00
142) B Chrysene-d12	240	11.250	11.255	1.000	789751	40.00	ng/uL	0.00
148) B Perylene-d12	264	13.679	13.684	1.000	881390	40.00	ng/uL	0.00
151) J Naphthalene-d8	136	5.752	5.752	1.000	598090	40.00	ng/uL	0.00
153) J Phenanthrene-d10	188	8.715	8.720	1.000	666213	40.00	ng/uL	0.00
156) J Chrysene-d12	240	11.250	11.255	1.000	789751	40.00	ng/uL	0.00
159) D Naphthalene-d8	136	5.752	5.752	1.000	598090	40.00	ng/uL	0.00
161) D Acenaphthene-d10	164	7.421	7.426	1.000	319151	40.00	ng/uL	0.00
164) D Phenanthrene-d10	188	8.715	8.720	1.000	666213	40.00	ng/uL	0.00
171) D Chrysene-d12	240	11.250	11.255	1.000	789751	40.00	ng/uL	0.00
173) E Naphthalene-d8	136	5.752	5.752	1.000	598090	40.00	ng/uL	0.00
175) E Perylene-d12	264	13.679	13.684	1.000	881390	40.00	ng/uL	0.00
System Monitoring Compounds								Dev(Min)
5) 2-Fluorophenol	112	3.078	3.083	0.703	212709	44.76	ng/uL	0.00
8) Phenol-d5	99	3.971	3.971	0.907	177322	30.16	ng/uL	0.00
23) Nitrobenzene-d5	82	4.982	4.987	0.866	206206	41.13	ng/uL	0.00
44) 2-Fluorobiphenyl	172	6.795	6.800	0.916	473864	40.06	ng/uL	0.00
63) 2,4,6-Tribromophenol	330	8.116	8.116	1.094	259676	89.55	ng/uL	0.00
79) p-Terphenyl-d14	244	10.058	10.057	1.154	467641	25.80	ng/uL	0.00

Compound	Amount	Range	Recovery
5) 2-Fluorophenol	100.000	11 - 79	45%
8) Phenol-d5	100.000	15 - 85	30%
23) Nitrobenzene-d5	50.000	39 - 112	82%
44) 2-Fluorobiphenyl	50.000	39 - 112	80%
63) 2,4,6-Tribromophenol	100.000	37 - 132	90%
79) p-Terphenyl-d14	50.000	24 - 129	52%

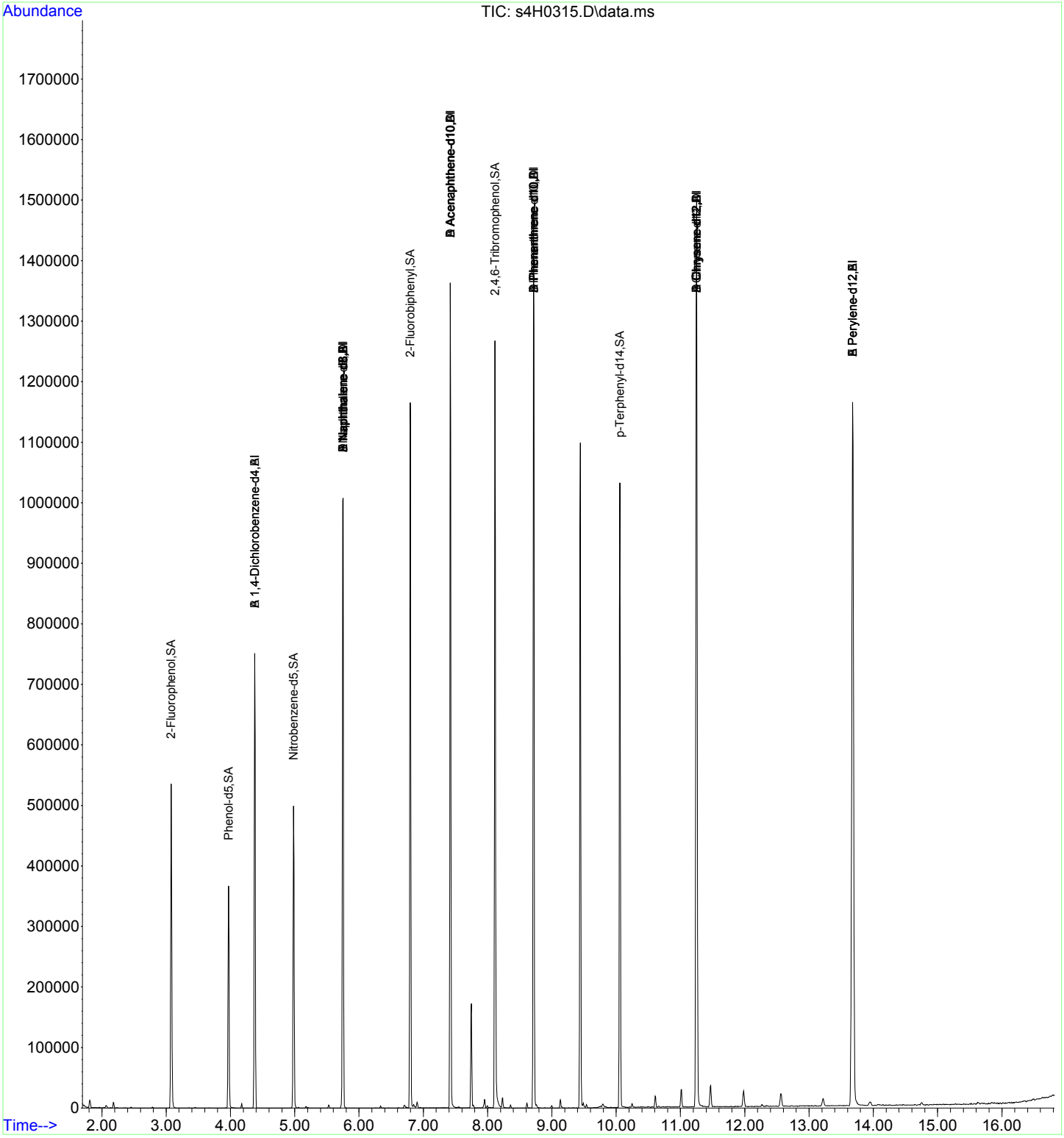
Target Compounds	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	QValue

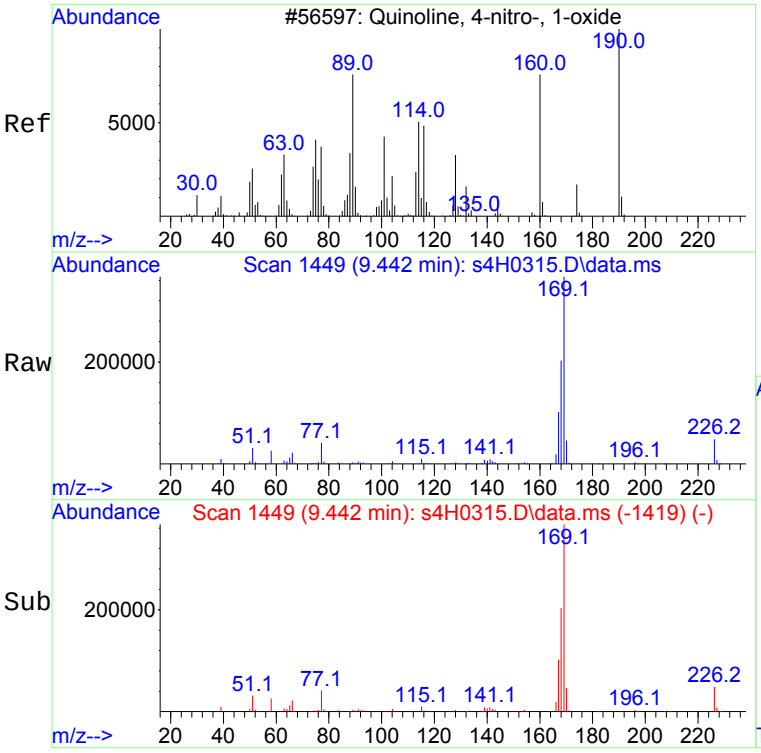
(#) = qualifier out of range (m) = manual integration (+) = signals summed
(A) = Over the calibration range (d) = deleted

Quantitation Report

Data Path : C:\msdchem\1\data\S080323\
Data File : s4H0315.D
Acq On : 03 Aug 2023 13:35
Operator : NM1
Sample : |631221003|2469792|1|SVM|1|TRCI|||
Misc : |MSD1C70E_L|GROUND WATER|16MW9|mix[a,b,j,d,e]||
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 04 09:14:41 2023
Quant Method : C:\msdchem\1\data\S080323\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:54:56 2023
Response via : Initial Calibration

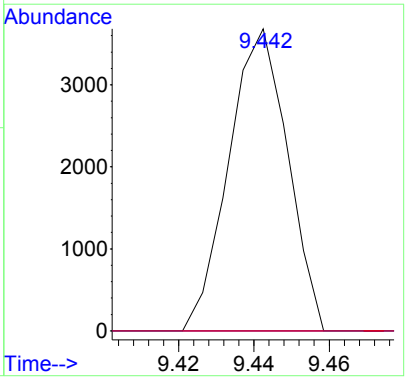




#139 BEFORE analyst DELETION
4-Nitroquinoline-1-oxide
Concen: 5.88 ng/uL
RT: 9.442 min Scan# 1449
Delta R.T. 0.059 min
Lab File: s4H0315.D
Acq: 03 Aug 2023 13:35

Tgt Ion:128 Resp: 4000

Ion	Ratio	Lower	Upper
128	100		
190	0.0	143.2	203.2#
174	0.0	27.2	87.2#



Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**631221**	**Date Collected:**	**07/27/2023 09:55**	**Matrix:**	**GROUND WATER**
Lab Sample ID:	**631221004**	**Date Received:**	**07/28/2023 09:30**		
		Client:	**TRCI001**	**Project:**	**TRCI00123**
Client ID:	**16WC1A**	**Method:**	**SW846 3510C/8270E**	**SOP Ref:**	**GL-OA-E-009**
Batch ID:	**2469792**	**Inst:**	**MSD4.I**	**Dilution:**	**1**
Run Date:	**08/03/2023 13:56**	**Analyst:**	**NM1**	**Inj. Vol:**	**1 uL**
Prep Date:	**08/02/2023 12:36**	**Aliquot:**	**1050 mL**	**Final Volume:**	**1 mL**
Data File:	**S080323\s4H0316.D**	**Column:**	**DB-5ms**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	Dimethylphthalate	U	0.286	ug/L	0.286	0.952
117-84-0	Di-n-octylphthalate	U	0.286	ug/L	0.286	0.952
70-30-4	Hexachlorophene	U	159	ug/L	159	476

Quantitation Report

08/04/2023

Data Path : C:\msdchem\1\data\S080323\
Data File : s4H0316.D
Acq On : 03 Aug 2023 13:56
Operator : NM1
Sample : |631221004|2469792|1|SVM|1|TRCI|||
Misc : |MSD1C70E_L|GROUND WATER|16WC1A|mix[a,b,j,d,e]||
ALS Vial : 15 Sample Multiplier: 1

08/04/2023

Quant Time: Aug 04 09:14:54 2023
Quant Method : C:\msdchem\1\data\S080323\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:54:56 2023
Response via : Initial Calibration

Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	Dev(Min)
Internal Standards								
1) A 1,4-Dichlorobenzene-d4	152	4.377	4.377	1.000	169567	40.00	ng/uL	0.00
22) A Naphthalene-d8	136	5.746	5.752	1.000	661965	40.00	ng/uL	0.00
39) A Acenaphthene-d10	164	7.421	7.426	1.000	358815	40.00	ng/uL	0.00
64) A Phenanthrene-d10	188	8.715	8.720	1.000	743183	40.00	ng/uL	0.00
80) A Chrysene-d12	240	11.250	11.255	1.000	881097	40.00	ng/uL	0.00
88) A Perylene-d12	264	13.678	13.684	1.000	992936	40.00	ng/uL	0.00
96) B 1,4-Dichlorobenzene-d4	152	4.377	4.377	1.000	169567	40.00	ng/uL	0.00
112) B Naphthalene-d8	136	5.746	5.752	1.000	661965	40.00	ng/uL	0.00
120) B Acenaphthene-d10	164	7.421	7.426	1.000	358815	40.00	ng/uL	0.00
129) B Phenanthrene-d10	188	8.715	8.720	1.000	743183	40.00	ng/uL	0.00
142) B Chrysene-d12	240	11.250	11.255	1.000	881097	40.00	ng/uL	0.00
148) B Perylene-d12	264	13.678	13.684	1.000	992936	40.00	ng/uL	0.00
151) J Naphthalene-d8	136	5.746	5.752	1.000	661965	40.00	ng/uL	0.00
153) J Phenanthrene-d10	188	8.715	8.720	1.000	743183	40.00	ng/uL	0.00
156) J Chrysene-d12	240	11.250	11.255	1.000	881097	40.00	ng/uL	0.00
159) D Naphthalene-d8	136	5.746	5.752	1.000	661965	40.00	ng/uL	0.00
161) D Acenaphthene-d10	164	7.421	7.426	1.000	358815	40.00	ng/uL	0.00
164) D Phenanthrene-d10	188	8.715	8.720	1.000	743183	40.00	ng/uL	0.00
171) D Chrysene-d12	240	11.250	11.255	1.000	881097	40.00	ng/uL	0.00
173) E Naphthalene-d8	136	5.746	5.752	1.000	661965	40.00	ng/uL	0.00
175) E Perylene-d12	264	13.678	13.684	1.000	992936	40.00	ng/uL	0.00
System Monitoring Compounds								Dev(Min)
5) 2-Fluorophenol	112	3.077	3.083	0.703	171357	32.52	ng/uL	0.00
8) Phenol-d5	99	3.971	3.971	0.907	147935	22.69	ng/uL	0.00
23) Nitrobenzene-d5	82	4.982	4.987	0.867	190036	34.25	ng/uL	0.00
44) 2-Fluorobiphenyl	172	6.795	6.800	0.916	449522	33.80	ng/uL	0.00
63) 2,4,6-Tribromophenol	330	8.116	8.116	1.094	249770	76.61	ng/uL	0.00
79) p-Terphenyl-d14	244	10.057	10.057	1.154	489516	24.21	ng/uL	0.00

Compound	Amount	Range	Recovery
5) 2-Fluorophenol	100.000	11 - 79	33%
8) Phenol-d5	100.000	15 - 85	23%
23) Nitrobenzene-d5	50.000	39 - 112	69%
44) 2-Fluorobiphenyl	50.000	39 - 112	68%
63) 2,4,6-Tribromophenol	100.000	37 - 132	77%
79) p-Terphenyl-d14	50.000	24 - 129	48%

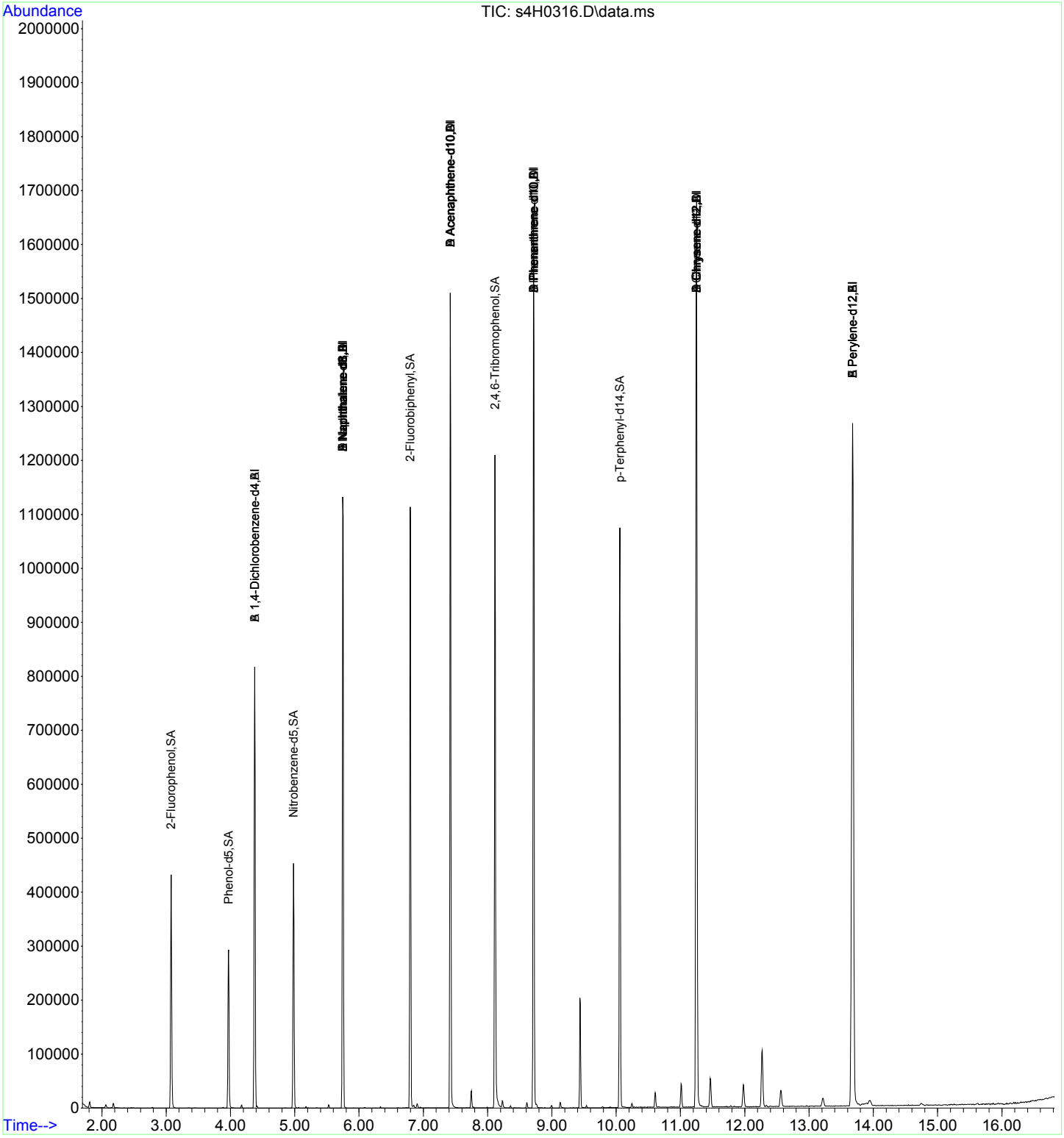
Target Compounds	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	QValue

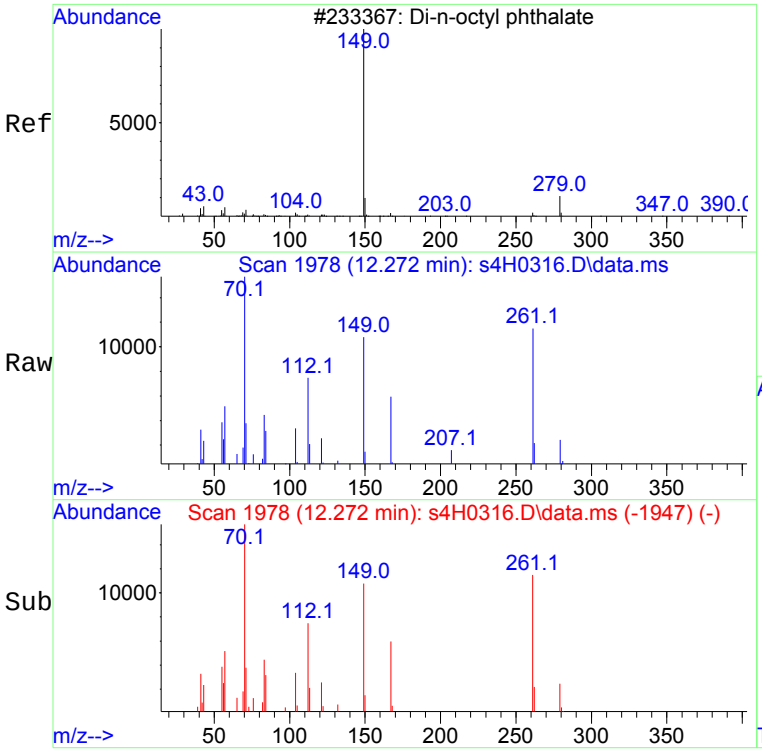
(#) = qualifier out of range (m) = manual integration (+) = signals summed
(A) = Over the calibration range (d) = deleted

Quantitation Report

Data Path : C:\msdchem\1\data\S080323\
Data File : s4H0316.D
Acq On : 03 Aug 2023 13:56
Operator : NM1
Sample : |631221004|2469792|1|SVM|1|TRCI|||
Misc : |MSD1C70E_L|GROUND WATER|16WC1A|mix[a,b,j,d,e]||
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 04 09:14:54 2023
Quant Method : C:\msdchem\1\data\S080323\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:54:56 2023
Response via : Initial Calibration

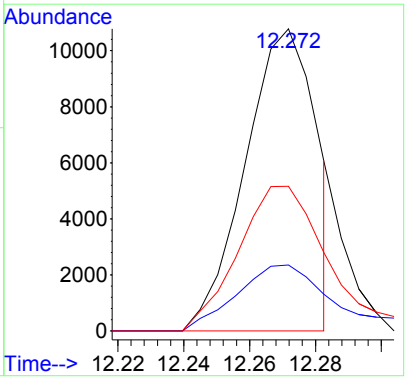




#87 BEFORE analyst DELETION
Di-n-octylphthalate
Concen: 0.64 ng/uL
RT: 12.272 min Scan# 1978
Delta R.T. 0.064 min
Lab File: s4H0316.D
Acq: 03 Aug 2023 13:56

Tgt Ion:149 Resp: 16202

Ion	Ratio	Lower	Upper
149	100		
43	24.1	0.0	37.7
57	51.6	0.0	36.7#



Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**631221**	**Date Collected:**	**07/27/2023 10:20**	**Matrix:**	**GROUND WATER**
Lab Sample ID:	**631221005**	**Date Received:**	**07/28/2023 09:30**		
		Client:	**TRCI001**	**Project:**	**TRCI00123**
Client ID:	**16WDUP**	**Method:**	**SW846 3510C/8270E**	**SOP Ref:**	**GL-OA-E-009**
Batch ID:	**2469792**	**Inst:**	**MSD4.I**	**Dilution:**	**1**
Run Date:	**08/03/2023 15:01**	**Analyst:**	**NM1**	**Inj. Vol:**	**1 uL**
Prep Date:	**08/02/2023 12:36**	**Aliquot:**	**1062.28 mL**	**Final Volume:**	**1 mL**
Data File:	**S080323\s4H0319.D**	**Column:**	**DB-5ms**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	Dimethylphthalate	U	0.282	ug/L	0.282	0.941
117-84-0	Di-n-octylphthalate	U	0.282	ug/L	0.282	0.941
70-30-4	Hexachlorophene	U	157	ug/L	157	471

Quantitation Report

08/04/2023

Data Path : C:\msdchem\1\data\S080323\
Data File : s4H0319.D
Acq On : 03 Aug 2023 15:01
Operator : NM1
Sample : |631221005|2469792|1|SVM|1|TRCI|||
Misc : |MSD1C70E_L|GROUND WATER|16WDUP|mix[a,b,j,d,e]||
ALS Vial : 18 Sample Multiplier: 1

08/04/2023

Quant Time: Aug 04 09:15:16 2023
Quant Method : C:\msdchem\1\data\S080323\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:54:56 2023
Response via : Initial Calibration

Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	Dev(Min)
Internal Standards								
1) A 1,4-Dichlorobenzene-d4	152	4.377	4.377	1.000	167003	40.00	ng/uL	0.00
22) A Naphthalene-d8	136	5.747	5.752	1.000	675689	40.00	ng/uL	0.00
39) A Acenaphthene-d10	164	7.421	7.426	1.000	361464	40.00	ng/uL	0.00
64) A Phenanthrene-d10	188	8.715	8.720	1.000	773225	40.00	ng/uL	0.00
80) A Chrysene-d12	240	11.250	11.255	1.000	908376	40.00	ng/uL	0.00
88) A Perylene-d12	264	13.679	13.684	1.000	1029702	40.00	ng/uL	0.00
96) B 1,4-Dichlorobenzene-d4	152	4.377	4.377	1.000	167003	40.00	ng/uL	0.00
112) B Naphthalene-d8	136	5.747	5.752	1.000	675689	40.00	ng/uL	0.00
120) B Acenaphthene-d10	164	7.421	7.426	1.000	361464	40.00	ng/uL	0.00
129) B Phenanthrene-d10	188	8.715	8.720	1.000	773225	40.00	ng/uL	0.00
142) B Chrysene-d12	240	11.250	11.255	1.000	908376	40.00	ng/uL	0.00
148) B Perylene-d12	264	13.679	13.684	1.000	1029702	40.00	ng/uL	0.00
151) J Naphthalene-d8	136	5.747	5.752	1.000	675689	40.00	ng/uL	0.00
153) J Phenanthrene-d10	188	8.715	8.720	1.000	773225	40.00	ng/uL	0.00
156) J Chrysene-d12	240	11.250	11.255	1.000	908376	40.00	ng/uL	0.00
159) D Naphthalene-d8	136	5.747	5.752	1.000	675689	40.00	ng/uL	0.00
161) D Acenaphthene-d10	164	7.421	7.426	1.000	361464	40.00	ng/uL	0.00
164) D Phenanthrene-d10	188	8.715	8.720	1.000	773225	40.00	ng/uL	0.00
171) D Chrysene-d12	240	11.250	11.255	1.000	908376	40.00	ng/uL	0.00
173) E Naphthalene-d8	136	5.747	5.752	1.000	675689	40.00	ng/uL	0.00
175) E Perylene-d12	264	13.679	13.684	1.000	1029702	40.00	ng/uL	0.00
System Monitoring Compounds								Dev(Min)
5) 2-Fluorophenol	112	3.078	3.083	0.703	61432	11.84	ng/uL	0.00
8) Phenol-d5	99	3.971	3.971	0.907	74277	11.57	ng/uL	0.00
23) Nitrobenzene-d5	82	4.982	4.987	0.867	97967	17.30	ng/uL	0.00
44) 2-Fluorobiphenyl	172	6.795	6.800	0.916	257625	19.23	ng/uL	0.00
63) 2,4,6-Tribromophenol	330	8.116	8.116	1.094	70169	21.37	ng/uL	0.00
79) p-Terphenyl-d14	244	10.058	10.057	1.154	199115	9.46	ng/uL	0.00

Compound	Amount	Range	Recovery
5) 2-Fluorophenol	100.000	11 - 79	12%
8) Phenol-d5	100.000	15 - 85	12%#
23) Nitrobenzene-d5	50.000	39 - 112	35%#
44) 2-Fluorobiphenyl	50.000	39 - 112	38%#
63) 2,4,6-Tribromophenol	100.000	37 - 132	21%#
79) p-Terphenyl-d14	50.000	24 - 129	19%#

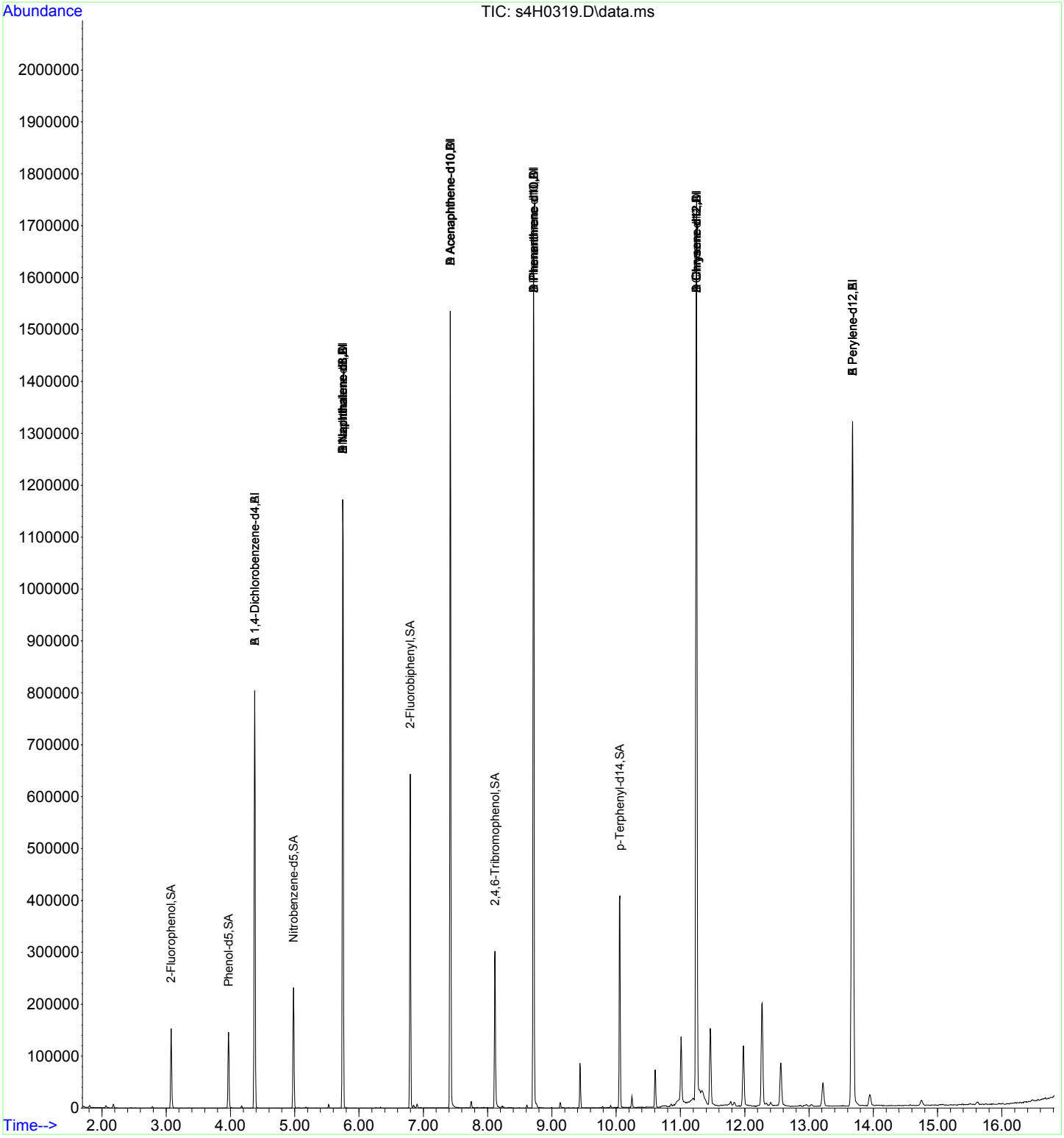
Target Compounds	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	QValue

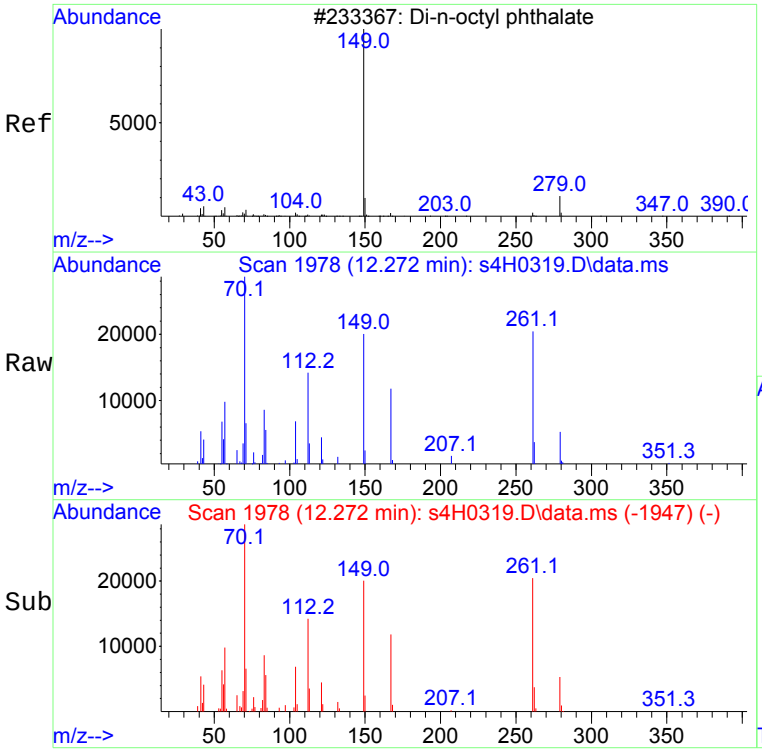
(#) = qualifier out of range (m) = manual integration (+) = signals summed
(A) = Over the calibration range (d) = deleted

Quantitation Report

Data Path : C:\msdchem\1\data\S080323\
Data File : s4H0319.D
Acq On : 03 Aug 2023 15:01
Operator : NM1
Sample : |631221005|2469792|1|SVM|1|TRCI|||
Misc : |MSD1C70E_L|GROUND WATER|16WDUP|mix[a,b,j,d,e]||
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 04 09:15:16 2023
Quant Method : C:\msdchem\1\data\S080323\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:54:56 2023
Response via : Initial Calibration

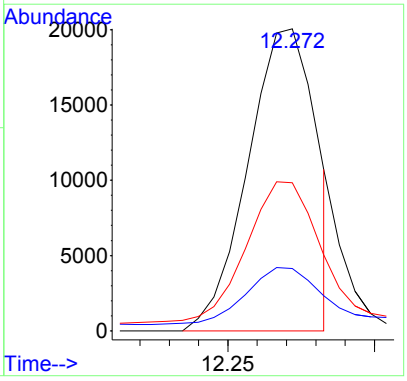




#87 BEFORE analyst DELETION
Di-n-octylphthalate
Concen: 1.24 ng/uL
RT: 12.272 min Scan# 1978
Delta R.T. 0.064 min
Lab File: s4H0319.D
Acq: 03 Aug 2023 15:01

Tgt Ion:149 Resp: 32482

Ion	Ratio	Lower	Upper
149	100		
43	18.9	0.0	37.7
57	54.5	0.0	36.7#



Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**631221**	**Date Collected:**	**07/26/2023 12:05**	**Matrix:**	**GROUND WATER**
Lab Sample ID:	**631221006**	**Date Received:**	**07/28/2023 09:30**		
		Client:	**TRCI001**	**Project:**	**TRCI00123**
Client ID:	**16WC1B**	**Method:**	**SW846 3510C/8270E**	**SOP Ref:**	**GL-OA-E-009**
Batch ID:	**2469792**	**Inst:**	**MSD4.I**	**Dilution:**	**1**
Run Date:	**08/03/2023 15:22**	**Analyst:**	**NM1**	**Inj. Vol:**	**1 uL**
Prep Date:	**08/02/2023 12:36**	**Aliquot:**	**1029.86 mL**	**Final Volume:**	**1 mL**
Data File:	**S080323\s4H0320.D**	**Column:**	**DB-5ms**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	Dimethylphthalate	U	0.291	ug/L	0.291	0.971
117-84-0	Di-n-octylphthalate	U	0.291	ug/L	0.291	0.971
70-30-4	Hexachlorophene	U	162	ug/L	162	486

Quantitation Report

08/04/2023

Data Path : C:\msdchem\1\data\S080323\
Data File : s4H0320.D
Acq On : 03 Aug 2023 15:22
Operator : NM1
Sample : |631221006|2469792|1|SVM|1|TRCI|||
Misc : |MSD1C70E_L|GROUND WATER|16WC1B|mix[a,b,j,d,e]||
ALS Vial : 19 Sample Multiplier: 1

08/04/2023

Quant Time: Aug 04 09:15:33 2023
Quant Method : C:\msdchem\1\data\S080323\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:54:56 2023
Response via : Initial Calibration

Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	Dev(Min)
Internal Standards								
1) A 1,4-Dichlorobenzene-d4	152	4.377	4.377	1.000	168173	40.00	ng/uL	0.00
22) A Naphthalene-d8	136	5.747	5.752	1.000	669276	40.00	ng/uL	0.00
39) A Acenaphthene-d10	164	7.421	7.426	1.000	357197	40.00	ng/uL	0.00
64) A Phenanthrene-d10	188	8.715	8.720	1.000	756349	40.00	ng/uL	0.00
80) A Chrysene-d12	240	11.250	11.255	1.000	893521	40.00	ng/uL	0.00
88) A Perylene-d12	264	13.679	13.684	1.000	990500	40.00	ng/uL	0.00
96) B 1,4-Dichlorobenzene-d4	152	4.377	4.377	1.000	168173	40.00	ng/uL	0.00
112) B Naphthalene-d8	136	5.747	5.752	1.000	669276	40.00	ng/uL	0.00
120) B Acenaphthene-d10	164	7.421	7.426	1.000	357197	40.00	ng/uL	0.00
129) B Phenanthrene-d10	188	8.715	8.720	1.000	756349	40.00	ng/uL	0.00
142) B Chrysene-d12	240	11.250	11.255	1.000	893521	40.00	ng/uL	0.00
148) B Perylene-d12	264	13.679	13.684	1.000	990500	40.00	ng/uL	0.00
151) J Naphthalene-d8	136	5.747	5.752	1.000	669276	40.00	ng/uL	0.00
153) J Phenanthrene-d10	188	8.715	8.720	1.000	756349	40.00	ng/uL	0.00
156) J Chrysene-d12	240	11.250	11.255	1.000	893521	40.00	ng/uL	0.00
159) D Naphthalene-d8	136	5.747	5.752	1.000	669276	40.00	ng/uL	0.00
161) D Acenaphthene-d10	164	7.421	7.426	1.000	357197	40.00	ng/uL	0.00
164) D Phenanthrene-d10	188	8.715	8.720	1.000	756349	40.00	ng/uL	0.00
171) D Chrysene-d12	240	11.250	11.255	1.000	893521	40.00	ng/uL	0.00
173) E Naphthalene-d8	136	5.747	5.752	1.000	669276	40.00	ng/uL	0.00
175) E Perylene-d12	264	13.679	13.684	1.000	990500	40.00	ng/uL	0.00
System Monitoring Compounds								Dev(Min)
5) 2-Fluorophenol	112	3.078	3.083	0.703	167245	32.00	ng/uL	0.00
8) Phenol-d5	99	3.965	3.971	0.906	149533	23.13	ng/uL	0.00
23) Nitrobenzene-d5	82	4.982	4.987	0.867	222654	39.69	ng/uL	0.00
44) 2-Fluorobiphenyl	172	6.795	6.800	0.916	519326	39.23	ng/uL	0.00
63) 2,4,6-Tribromophenol	330	8.116	8.116	1.094	229511	70.72	ng/uL	0.00
79) p-Terphenyl-d14	244	10.058	10.057	1.154	815963	39.64	ng/uL	0.00

Compound	Amount	Range	Recovery
5) 2-Fluorophenol	100.000	11 - 79	32%
8) Phenol-d5	100.000	15 - 85	23%
23) Nitrobenzene-d5	50.000	39 - 112	79%
44) 2-Fluorobiphenyl	50.000	39 - 112	78%
63) 2,4,6-Tribromophenol	100.000	37 - 132	71%
79) p-Terphenyl-d14	50.000	24 - 129	79%

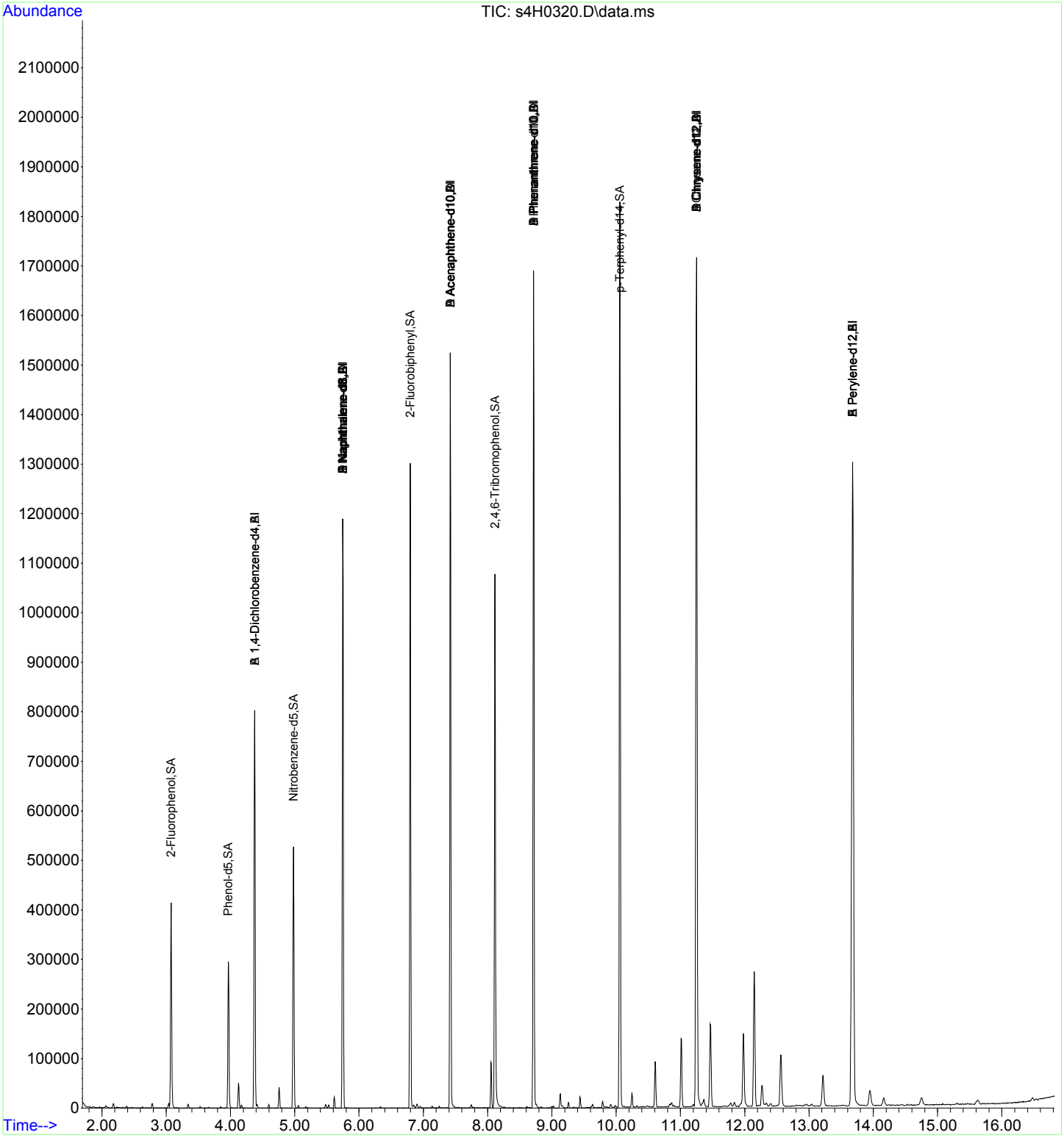
Target Compounds	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	QValue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(A) = Over the calibration range (d) = deleted

Quantitation Report

Data Path : C:\msdchem\1\data\S080323\
Data File : s4H0320.D
Acq On : 03 Aug 2023 15:22
Operator : NM1
Sample : |631221006|2469792|1|SVM|1|TRCI|||
Misc : |MSD1C70E_L|GROUND WATER|16WC1B|mix[a,b,j,d,e]||
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 04 09:15:33 2023
Quant Method : C:\msdchem\1\data\S080323\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:54:56 2023
Response via : Initial Calibration



Standards

SW846 8270/EPA 625

Calibration Standard Concentration Levels*

MEGA MIX	Level 1	Level 2	Level 3	Level 4#	Level 5	Level 6	Level 7	Level 8	Level 9	Level 10
1,4-Dichlorobenzene-d4 (INTERNAL STANDARD)										
Naphthalene-d8 (INTERNAL STANDARD)										
Acenaphthene-d10 (INTERNAL STANDARD)										
Phenanthrene-d10 (INTERNAL STANDARD)										
Chrysene-d12 (INTERNAL STANDARD)										
Perylene-d12 (INTERNAL STANDARD)										
2-Fluorophenol (SURROGATE)		10	20	40	50	80	100	120	30	60
Phenol-d5 (SURROGATE)		10	20	40	50	80	100	120	30	60
2-Chlorophenol-d4 (CLP SURROGATE)		10	20	40	50	80	100	120	30	60
1,2-Dichlorobenzene-d4 (CLP SURROGATE)		10	20	40	50	80	100	120	30	60
Nitrobenzene-d5 (SURROGATE)		10	20	40	50	80	100	120	30	60
2-Fluorobiphenyl (SURROGATE)		10	20	40	50	80	100	120	30	60
2,4,6-Tribromophenol (SURROGATE)		10	20	40	50	80	100	120	30	60
p-Terphenyl-d14 (SURROGATE)		10	20	40	50	80	100	120	30	60
N-Nitrosodimethylamine	1**	10	20	40	50	80	100	120	30	60
Pyridine		10	20	40	50	80	100	120	30	60
Aniline		10	20	40	50	80	100	120	30	60
Phenol		10	20	40	50	80	100	120	30	60
bis(2-Chloroethyl)ether		10	20	40	50	80	100	120	30	60
2-Chlorophenol		10	20	40	50	80	100	120	30	60
n-Decane		10	20	40	50	80	100	120	30	60
1,3-Dichlorobenzene		10	20	40	50	80	100	120	30	60
1,4-Dichlorobenzene		10	20	40	50	80	100	120	30	60
Benzyl Alcohol		10	20	40	50	80	100	120	30	60
1,2-Dichlorobenzene		10	20	40	50	80	100	120	30	60
bis(2-Chloro-1-methylethyl)ether		10	20	40	50	80	100	120	30	60
o-Cresol (2-Methylphenol)		10	20	40	50	80	100	120	30	60
N-Nitrosodipropylamine		10	20	40	50	80	100	120	30	60
m,p-Cresols (3-Methylphenol & 4-Methylphenol)		10	20	40	50	80	100	120	30	60
Hexachloroethane		10	20	40	50	80	100	120	30	60
Nitrobenzene		10	20	40	50	80	100	120	30	60
Isophorone		10	20	40	50	80	100	120	30	60
2-Nitrophenol		10	20	40	50	80	100	120	30	60
2,4-Dimethylphenol		10	20	40	50	80	100	120	30	60
bis(2-Chloroethoxy)methane		10	20	40	50	80	100	120	30	60
2,4-Dichlorophenol		10	20	40	50	80	100	120	30	60
Benzoic Acid			20	40	50	80	100	120	30	60
1,2,4-Trichlorobenzene		10	20	40	50	80	100	120	30	60
Naphthalene	1	10	20	40	50	80	100	120	30	60
alpha-Terpineol		10	20	40	50	80	100	120	30	60
4-Chloroaniline		10	20	40	50	80	100	120	30	60

SW846 8270/EPA 625										
Calibration Standard Concentration Levels*										
MEGA MIX	Level 1	Level 2	Level 3	Level 4#	Level 5	Level 6	Level 7	Level 8	Level 9	Level 10
Hexachlorobutadiene		10	20	40	50	80	100	120	30	60
4-Chloro-3-methylphenol		10	20	40	50	80	100	120	30	60
2-Methylnaphthalene	1	10	20	40	50	80	100	120	30	60
1-Methylnaphthalene	1	10	20	40	50	80	100	120	30	60
Hexachlorocyclopentadiene		10	20	40	50	80	100	120	30	60
2,3-Dichloroaniline		10	20	40	50	80	100	120	30	60
2,4,6-Trichlorophenol		10	20	40	50	80	100	120	30	60
2,4,5-Trichlorophenol		10	20	40	50	80	100	120	30	60
2-Chloronaphthalene	1	10	20	40	50	80	100	120	30	60
o-Nitroaniline		10	20	40	50	80	100	120	30	60
m-Nitroaniline		10	20	40	50	80	100	120	30	60
Dimethylphthalate	1**	10	20	40	50	80	100	120	30	60
2,6-Dinitrotoluene		10	20	40	50	80	100	120	30	60
Acenaphthylene	1	10	20	40	50	80	100	120	30	60
Acenaphthene	1	10	20	40	50	80	100	120	30	60
2,4-Dinitrophenol			20	40	50	80	100	120	30	60
Dibenzofuran		10	20	40	50	80	100	120	30	60
2,4-Dinitrotoluene		10	20	40	50	80	100	120	30	60
Diethylphthalate	1**	10	20	40	50	80	100	120	30	60
4-Nitrophenol		10	20	40	50	80	100	120	30	60
Fluorene	1	10	20	40	50	80	100	120	30	60
4-Chlorophenyl phenyl ether		10	20	40	50	80	100	120	30	60
2-Methyl-4,6-dinitrophenol		10	20	40	50	80	100	120	30	60
p-Nitroaniline		10	20	40	50	80	100	120	30	60
Diphenylamine		10	20	40	50	80	100	120	30	60
1,2-Diphenylhydrazine		10	20	40	50	80	100	120	30	60
4-Bromophenyl phenyether		10	20	40	50	80	100	120	30	60
Hexachlorobenzene		10	20	40	50	80	100	120	30	60
Pentachlorophenol		10	20	40	50	80	100	120	30	60
n-Octadecane		10	20	40	50	80	100	120	30	60
Phenanthrene	1	10	20	40	50	80	100	120	30	60
Anthracene	1	10	20	40	50	80	100	120	30	60
Di-n-butylphthalate	1**	10	20	40	50	80	100	120	30	60
Fluoranthene	1	10	20	40	50	80	100	120	30	60
Pyrene	1	10	20	40	50	80	100	120	30	60
Butylbenzylphthalate	1**	10	20	40	50	80	100	120	30	60
Benzo(a)anthracene	1	10	20	40	50	80	100	120	30	60
Chrysene	1	10	20	40	50	80	100	120	30	60
bis (2-Ethylhexyl) phthalate	1	10	20	40	50	80	100	120	30	60
Di-n-octylphthalate	1**	10	20	40	50	80	100	120	30	60

SW846 8270/EPA 625										
Calibration Standard Concentration Levels*										
MEGA MIX	Level 1	Level 2	Level 3	Level 4#	Level 5	Level 6	Level 7	Level 8	Level 9	Level 10
Benzo(b)fluoranthene	1	10	20	40	50	80	100	120	30	60
Benzo(k)fluoranthene	1	10	20	40	50	80	100	120	30	60
Benzo(a)pyrene	1	10	20	40	50	80	100	120	30	60
Indeno-(1,2,3-cd)pyrene	1	10	20	40	50	80	100	120	30	60
Dibenzo(a,h)anthracene	1	10	20	40	50	80	100	120	30	60
Benzo(ghi)perylene	1	10	20	40	50	80	100	120	30	60
m-Dinitrobenzene		10	20	40	50	80	100	120	30	60
2,3,4,6-Tetrachlorophenol		10	20	40	50	80	100	120	30	60
Dinoseb		10	20	40	50	80	100	120	30	60
Carbazole	1	10	20	40	50	80	100	120	30	60
p-Benzoquinone		10	20	40	50	80	100	120	30	60
Methoxychlor		10	20	40	50	80	100	120	30	60
p-Toluidine		10	20	40	50	80	100	120	30	60
m-Toluidine		10	20	40	50	80	10	120	30	60
1,4-Dinitrobenzene		10	20	40	50	80	100	120	30	60
2-Ethoxyethanol		10	20	40	50	80	100	120	30	60
Phthalic anhydride		10	20	40	50	80	100	120	30	60
Methylenebis(2-chloroaniline)		10	20	40	50	80	100	120	30	60
Dibenzo(a,e)pyrene		10	20	40	50	80	100	120	30	60

SW846 8270/EPA 625										
Calibration Standard Concentration Levels*										
AP MIX	Level 1	Level 2	Level 3	Level 4#	Level 5	Level 6	Level 7	Level 8	Level 9	Level 10
Benzaldehyde		10	20	40	50	80	100	120	30	60
Acetophenone		10	20	40	50	80	100	120	30	60
Caprolactam		10	20	40	50	80	100	120	30	60
1,1'-Biphenyl		10	20	40	50	80	100	120	30	60
Atrazine		10	20	40	50	80	100	120	30	60
Benzidine		10	20	40	50	80	100	120	30	60
3,3'-Dichlorobenzidene		10	20	40	50	80	100	120	30	60
1,4-Dioxane		10	20	40	50	80	100	120	30	60
Methyl methacrylate		10	20	40	50	80	100	120	30	60
Ethyl methacrylate		10	20	40	50	80	100	120	30	60
2-Picoline		10	20	40	50	80	100	120	30	60
N-Nitrosomethylethylamine		10	20	40	50	80	100	120	30	60
2-Butoxyethanol		10	20	40	50	80	100	120	30	60
Methyl methanesulfonate		10	20	40	50	80	100	120	30	60
N-Nitrosodiethylamine		10	20	40	50	80	100	120	30	60
Ethyl methanesulfonate		10	20	40	50	80	100	120	30	60
Pentachloroethane		10	20	40	50	80	100	120	30	60
N-Nitrosopyrrolidine		10	20	40	50	80	100	120	30	60
N-Nitrosomorpholine		10	20	40	50	80	100	120	30	60
o-Toluidine		10	20	40	50	80	100	120	30	60
N-Nitrosopiperidine		10	20	40	50	80	100	120	30	60
a,a-Dimethylphenethylamine		10	20	40	50	80	100	120	30	60
2,6-Dichlorophenol		10	20	40	50	80	100	120	30	60

SW846 8270/EPA 625										
Calibration Standard Concentration Levels*										
AP MIX	Level 1	Level 2	Level 3	Level 4#	Level 5	Level 6	Level 7	Level 8	Level 9	Level 10
Hexachloropropene		10	20	40	50	80	100	120	30	60
N-Nitrosodi-n-butylamine		10	20	40	50	80	100	120	30	60
Safrole		10	20	40	50	80	100	120	30	60
1,2,4,5-Tetrachlorobenzene		10	20	40	50	80	100	120	30	60
Isosafrole		10	20	40	50	80	100	120	30	60
1,4-Naphthoquinone		10	20	40	50	80	100	120	30	60
Pentachlorobenzene		10	20	40	50	80	100	120	30	60
1-Naphthylamine		10	20	40	50	80	100	120	30	60
2-Naphthylamine		10	20	40	50	80	100	120	30	60
5-Nitro-o-toluidine		10	20	40	50	80	100	120	30	60
1,3,5-Trinitrobenzene		10	20	40	50	80	100	120	30	60
Phenacetin		10	20	40	50	80	100	120	30	60
Diallate		10	20	40	50	80	100	120	30	60
cis-Diallate		1.5	3	6	7.5	12	15	18	4.5	9
trans-Diallate		8.5	17	34	42	68	85	102	25.5	51
4-Aminobiphenyl		10	20	40	50	80	100	120	30	60
Pentachloronitrobenzene		10	20	40	50	80	100	120	30	60
Pronamide		10	20	40	50	80	100	120	30	60
4-Nitroquinoline-1-oxide		10	20	40	50	80	100	120	30	60
Methapyrilene		10	20	40	50	80	100	120	30	60
Isodrin		10	20	40	50	80	100	120	30	60
Aramite		10	20	40	50	80	100	120	30	60
Kepone		10	20	40	50	80	100	120	30	60
p-(Dimethylamino)azobenzene		10	20	40	50	80	100	120	30	60
Chlorobenzilate		10	20	40	50	80	100	120	30	60
3,3'-Dimethylbenzidine		10	20	40	50	80	100	120	30	60
2-Acetylaminofluorene		10	20	40	50	80	100	120	30	60
7,12-Dimethylbenz(a)anthracene		10	20	40	50	80	100	120	30	60
3-Methylcholanthrene		10	20	40	50	80	100	120	30	60

SW846 8270/EPA 625										
Calibration Standard Concentration Levels*										
	Level 1	Level 2	Level 3	Level 4#	Level 5	Level 6	Level 7	Level 8	Level 9	Level 10
Hexachlorophene		500	1000	1250	1500	1750	2000			
p-Phenylenediamine		500	1000	1250	1500	1750	2000			

SW846 8270/EPA 625										
Calibration Standard Concentration Levels*										
PEST MIX	Level 1	Level 2	Level 3	Level 4#	Level 5	Level 6	Level 7	Level 8	Level 9	Level 10
bis(Chloromethyl)ether		10	20	40	50	80	100	120	30	60
Tributylphosphate		10	20	40	50	80	100	120	30	60
Triethylphosphorothioate		10	20	40	50	80	100	120	30	60
Thionazin		10	20	40	50	80	100	120	30	60
Sulfotepp		10	20	40	50	80	100	120	30	60
Phorate		10	20	40	50	80	100	120	30	60
Dimethoate		10	20	40	50	80	100	120	30	60
Disulfoton		10	20	40	50	80	100	120	30	60
Methyl parathion		10	20	40	50	80	100	120	30	60
Famphur		10	20	40	50	80	100	120	30	60
Parathion		10	20	40	50	80	100	120	30	60

SW846 8270/EPA 625										
Calibration Standard Concentration Levels*										
NEVADA MIX	Level 1	Level 2	Level 3	Level 4#	Level 5	Level 6	Level 7	Level 8	Level 9	Level 10
bis(Chloromethyl)ether		10	20	40	50	80	100	120	30	60
4-Chlorothiophenol		10	20	40	50	80	100	120	30	60
4-Chlorothioanisole		10	20	40	50	80	100	120	30	60
Phthalic acid		10	20	40	50	80	100	120	30	60
Hydroxymethyl phthalimide		10	20	40	50	80	100	120	30	60
Diphenyl sulfide		10	20	40	50	80	100	120	30	60
Diphenyl disulfide		10	20	40	50	80	100	120	30	60
Phenyl sulfone		10	20	40	50	80	100	120	30	60
Octachlorostyrene		10	20	40	50	80	100	120	30	60
Thiophenol		10	20	40	50	80	100	120	30	60
2,2'-Dichlorobenzil		10	20	40	50	80	100	120	30	60
bis(p-Chlorophenyl)disulfide		10	20	40	50	80	100	120	30	60
bis(p-Chlorophenyl)sulfone		10	20	40	50	80	100	120	30	60

All values are mg/L without the prep factor.
# Indicates the calibration verification concentration level used
* Usual calibration levels using SCAN methodology
** This analyte included in this level at special client request.

EPA 522								
Calibration Standard Concentration Levels#								
	Level 1	Level 2	Level 3	Level 4	Level 5	ICV	CCV	
Tetrahydrofuran-d8 (INTERNAL STANDARD)								
1,4-Dioxane-d8 (SURROGATE)	50	100	200	400	500	200	See Method	
1,4-Dioxane	50	100	200	400	500	200	See Method	

All values are ug/L without the prep factor.
Usual calibration levels using SIM methodology

SW846 8270SIM										
Calibration Standard Concentration Levels*										
MEGASIM analytes (A)	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6#	Level 7	Level 8	Level 9	Level 10
1,4-Dichlorobenzene-d4 (INTERNAL STANDARD)										
Naphthalene-d8 (INTERNAL STANDARD)										
Acenaphthene-d10 (INTERNAL STANDARD)										
Phenanthrene-d10 (INTERNAL STANDARD)										
Chrysene-d12 (INTERNAL STANDARD)										
Perylene-d12 (INTERNAL STANDARD)										
5-alpha-Androstane (SURROGATE)	$0.1	0.2	0.5	1	2	5	10	20		
$N-Methyl-N-nitrosomethylamine		0.2	0.5	1	2	5	10	20		
$bis(2-Chloroethyl)ether	0.1	0.2	0.5	1	2	5	10	20		
$N-Nitrosodipropylamine	0.1	0.2	0.5	1	2	5	10	20		
Naphthalene	$0.1	0.2	0.5	1	2	5	10	20		
2-Methylnaphthalene	$0.1	0.2	0.5	1	2	5	10	20		
1-Methylnaphthalene	$0.1	0.2	0.5	1	2	5	10	20		
2-Chloronaphthalene	$0.1	0.2	0.5	1	2	5	10	20		
Acenaphthylene	$0.1	0.2	0.5	1	2	5	10	20		
Acenaphthene	$0.1	0.2	0.5	1	2	5	10	20		
Fluorene	$0.1	0.2	0.5	1	2	5	10	20		
Phenanthrene	$0.1	0.2	0.5	1	2	5	10	20		
Anthracene	$0.1	0.2	0.5	1	2	5	10	20		
Fluoranthene	$0.1	0.2	0.5	1	2	5	10	20		
Pyrene	$0.1	0.2	0.5	1	2	5	10	20		
Benzo(a)anthracene	$0.1	0.2	0.5	1	2	5	10	20		
Chrysene	$0.1	0.2	0.5	1	2	5	10	20		
Benzo(b)fluoranthene	$0.1	0.2	0.5	1	2	5	10	20		
Benzo(k)fluoranthene	$0.1	0.2	0.5	1	2	5	10	20		
Benzo(a)pyrene	$0.1	0.2	0.5	1	2	5	10	20		
Indeno-(1,2,3-cd)pyrene	$0.1	0.2	0.5	1	2	5	10	20		
Dibenzo(a,h)anthracene	$0.1	0.2	0.5	1	2	5	10	20		
Benzo(ghi)perylene	$0.1	0.2	0.5	1	2	5	10	20		

$ By special request - Not for regulatory purposes

SW846 8270SIM										
Calibration Standard Concentration Levels*										
APSIM analytes (A)	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6#	Level 7	Level 8	Level 9	Level 10
$N-Nitrosodimethylamine	0.1	0.2	0.5	1	2	5	10	20		
$N-Nitrosopyrrolidine	0.1	0.2	0.5	1	2	5	10	20		
$N-Nitrosodi-n-butylamine	0.1	0.2	0.5	1	2	5	10	20		
$Benzidine			2.5	5	10	25	50	100		
$3,3'-Dichlorobenzidine	0.1	0.2	0.5	1	2	5	10	20		

$ By special request - Not for regulatory purposes

All values are mg/L without prep factor.

# indicates the calibraton verification concentration level used.

* Usual calibration levels using SIM methodology

(10/16/Full list)

Cal Lvl:1 Amt:1.00 Last Updated with: C:\msdchem\1\data\S080523a\s3H0502.D

Injection Date	Mix	Calibration File
05 Aug 2023 10:57	A	C:\msdchem\1\data\S080523a\s3H0502.D

Cal Lvl:2 Amt:10.00 Last Updated with: C:\msdchem\1\data\S080523a\s3H0503.D

Injection Date	Mix	Calibration File
05 Aug 2023 11:22	A	C:\msdchem\1\data\S080523a\s3H0503.D
06 Aug 2023 12:08	B	C:\msdchem\1\data\S080523a\s3H0512.D
06 Aug 2023 18:12	D	C:\msdchem\1\data\S080523a\s3H0530.D
06 Aug 2023 15:44	J	C:\msdchem\1\data\S080523a\s3H0522.D
06 Aug 2023 20:41	E	C:\msdchem\1\data\S080523a\s3H0538.D

Cal Lvl:3 Amt:20.00 Last Updated with: C:\msdchem\1\data\S080523a\s3H0504.D

Injection Date	Mix	Calibration File
05 Aug 2023 11:46	A	C:\msdchem\1\data\S080523a\s3H0504.D
06 Aug 2023 12:29	B	C:\msdchem\1\data\S080523a\s3H0513.D
06 Aug 2023 18:31	D	C:\msdchem\1\data\S080523a\s3H0531.D
06 Aug 2023 16:02	J	C:\msdchem\1\data\S080523a\s3H0523.D
06 Aug 2023 21:00	E	C:\msdchem\1\data\S080523a\s3H0539.D

Cal Lvl:4 Amt:40.00 Last Updated with: C:\msdchem\1\data\S080523a\s3H0505.D

Injection Date	Mix	Calibration File
05 Aug 2023 12:11	A	C:\msdchem\1\data\S080523a\s3H0505.D
06 Aug 2023 13:12	B	C:\msdchem\1\data\S080523a\s3H0515.D
06 Aug 2023 18:50	D	C:\msdchem\1\data\S080523a\s3H0532.D
06 Aug 2023 16:21	J	C:\msdchem\1\data\S080523a\s3H0524.D
06 Aug 2023 21:19	E	C:\msdchem\1\data\S080523a\s3H0540.D

Cal Lvl:5 Amt:50.00 Last Updated with: C:\msdchem\1\data\S080523a\s3H0506.D

Injection Date	Mix	Calibration File
05 Aug 2023 12:35	A	C:\msdchem\1\data\S080523a\s3H0506.D
06 Aug 2023 13:34	B	C:\msdchem\1\data\S080523a\s3H0516.D
06 Aug 2023 19:08	D	C:\msdchem\1\data\S080523a\s3H0533.D
06 Aug 2023 16:39	J	C:\msdchem\1\data\S080523a\s3H0525.D
06 Aug 2023 21:37	E	C:\msdchem\1\data\S080523a\s3H0541.D

Cal Lvl:6 Amt:80.00 Last Updated with: C:\msdchem\1\data\S080523a\s3H0507.D

Injection Date	Mix	Calibration File
05 Aug 2023 12:59	A	C:\msdchem\1\data\S080523a\s3H0507.D
06 Aug 2023 14:17	B	C:\msdchem\1\data\S080523a\s3H0518.D
06 Aug 2023 19:27	D	C:\msdchem\1\data\S080523a\s3H0534.D
06 Aug 2023 16:58	J	C:\msdchem\1\data\S080523a\s3H0526.D
06 Aug 2023 21:56	E	C:\msdchem\1\data\S080523a\s3H0542.D

Cal Lvl:7 Amt:100.00 Last Updated with: C:\msdchem\1\data\S080523a\s3H0508.D

Injection Date	Mix	Calibration File
05 Aug 2023 13:24	A	C:\msdchem\1\data\S080523a\s3H0508.D
06 Aug 2023 14:39	B	C:\msdchem\1\data\S080523a\s3H0519.D

Calibration History Report MSD3
GEL Laboratories, LLC

Method File : C:\msdchem\1\data\S080923.S\MSD3_8270_080523a.m
Last Update : Mon Aug 07 14:34:09 2023
Integrator : (RTE Integrator) Response via : Initial Calibration

06 Aug 2023 19:46	D	C:\msdchem\1\data\S080523a\s3H0535.D
06 Aug 2023 17:17	J	C:\msdchem\1\data\S080523a\s3H0527.D
06 Aug 2023 22:14	E	C:\msdchem\1\data\S080523a\s3H0543.D

Cal Lvl:8 Amt:120.00 Last Updated with: C:\msdchem\1\data\S080523a\s3H0509.D

Injection Date	Mix	Calibration File
05 Aug 2023 13:48	A	C:\msdchem\1\data\S080523a\s3H0509.D
06 Aug 2023 15:00	B	C:\msdchem\1\data\S080523a\s3H0520.D
06 Aug 2023 20:04	D	C:\msdchem\1\data\S080523a\s3H0536.D
06 Aug 2023 17:35	J	C:\msdchem\1\data\S080523a\s3H0528.D

Cal Lvl:9 Amt:30.00 Last Updated with: C:\msdchem\1\data\S080523a\s3H0514.D

Injection Date	Mix	Calibration File
06 Aug 2023 12:51	B	C:\msdchem\1\data\S080523a\s3H0514.D

Cal Lvl:10 Amt:60.00 Last Updated with: C:\msdchem\1\data\S080523a\s3H0517.D

Injection Date	Mix	Calibration File
06 Aug 2023 13:56	B	C:\msdchem\1\data\S080523a\s3H0517.D

MSD3_8270_080523a.m Wed Aug 09 16:52:14 2023

Response Factor Report MSD3
GEL Laboratories, LLC

Method File : C:\msdchem\1\data\S080923.S\MSD3_8270_080523a.m
Last Update : Mon Aug 07 14:34:09 2023
Integrator : (RTE Integrator) Response via : Initial Calibration

08/10/2023

For Linear Calibration: x = concentration ratio, y = response ratio. y = b + m1(x) + m2(xE2)

Compound b m1 m2	1 7	2 8	3 9	4 10	5	6	Avg	Curve	Exp	%RSD/r2
2)A 2-Ethoxyethanol	1.1619402	1.0695383	0.9536882	0.9679421	0.9856977	0.9537213				
	0.9544872	0.9720985					1.0024	AVRG		7.4829
3)AM N-Methyl-N-nitrosomethyl	0.9870282	0.9816441	0.8458363	0.8642608	0.8803533	0.8642346				
	0.8628088	0.8716229					0.8947	AVRG		6.2774
4)AM Pyridine		1.7187500	1.5150313	1.5051430	1.5576699	1.5271769				
	1.5136458	1.5243502					1.5517	AVRG		4.8692
5)SA 2-Fluorophenol		1.4973536	1.3243287	1.3394827	1.3653272	1.3369358				
	1.3420447	1.3449258					1.3643	AVRG		4.3913
6)A p-Benzoquinone		0.9317849	0.8794288	0.9477808	0.9999393	1.0169306				
	1.0328088	1.0358952					0.9778	AVRG		6.0674
7)AM Aniline		2.1601633	1.9172076	1.9655936	2.0066552	1.9574050				
	1.9486901	1.9510522					1.9867	AVRG		4.0756
8)SA Phenol-d5		1.7672579	1.5902242	1.5915441	1.6359532	1.6291236				
	1.6221202	1.6265911					1.6375	AVRG		3.6651
9)AMC Phenol		1.9282376	1.7230334	1.7311718	1.7654588	1.7396608				
	1.7398642	1.7319689					1.7656	AVRG		4.1307
10)AM bis(2-Chloroethyl) ether		1.6148930	1.4000321	1.4068518	1.4416215	1.4001269				
	1.3875050	1.3912771					1.4346	AVRG		5.6774
11)AM 2-Chlorophenol		1.5742962	1.3903467	1.3942750	1.4510653	1.4237816				
	1.4278098	1.4278405					1.4413	AVRG		4.3199
12)AM n-Decane		2.4104167	2.0978164	2.0856503	2.1312769	2.0527040				
	2.0146132	2.0250864					2.1168	AVRG		6.4172
13)AM 1,3-Dichlorobenzene		1.8699606	1.6225914	1.6088243	1.6473303	1.6234455				
	1.5946099	1.6087683					1.6536	AVRG		5.8535
14)AMC 1,4-Dichlorobenzene		1.9015484	1.6676926	1.6453225	1.6852675	1.6527052				
	1.6497137	1.6475528					1.6928	AVRG		5.5009
15)AM 1,2-Dichlorobenzene		1.8195664	1.5839520	1.5553923	1.6017460	1.5719370				
	1.5643422	1.5581912					1.6079	AVRG		5.8911
16)AM bis(2-Chloro-1-methyleth		3.0895833	2.6902577	2.6735561	2.7630902	2.6795893				
	2.6589502	2.6354633					2.7415	AVRG		5.7820

Response Factor Report MSD3
GEL Laboratories, LLC

Method File : C:\msdchem\1\data\S080923.S\MSD3_8270_080523a.m
Last Update : Mon Aug 07 14:34:09 2023
Integrator : (RTE Integrator) Response via : Initial Calibration

For Linear Calibration: x = concentration ratio, y = response ratio. y = b + m1(x) + m2(xE2)

Compound b | m1 | m2	1 7	2 8	3 9	4 10	5	6	Avg	Curve	Exp	%RSD/r2
17)AM Benzyl alcohol	0.9515000	0.9732264 0.9478061	0.8838193	0.9063352	0.9467584	0.9465306	0.9366	AVRG		3.2598
18)AM o-Cresol	1.1558622	1.2809966 1.1568293	1.1252972	1.1459161	1.1884255	1.1585083	1.1731	AVRG		4.3570
19)AM m,p-Cresols	1.3711733	1.4492399 1.3764406	1.2975043	1.3479848	1.3853231	1.3743893	1.3717	AVRG		3.3001
20)AMP N-Nitrosodipropylamine	1.0606565	1.0840090 1.0558628	0.9903000	1.0193528	1.0621540	1.0519782	1.0463	AVRG		2.9881
21)AM Hexachloroethane	0.6466031	0.7209459 0.6469011	0.6349169	0.6408886	0.6635913	0.6544983	0.6583	AVRG		4.4214
23)SA Nitrobenzene-d5	0.3807902	0.4135748 0.3831915	0.3714986	0.3762384	0.3912260	0.3891568	0.3865	AVRG		3.5604
24)AM Nitrobenzene	0.3884126	0.4310093 0.3908317	0.3919064	0.3919085	0.4047130	0.3935829	0.3989	AVRG		3.7824
25)AM Isophorone	0.6876855	0.7072465 0.6880100	0.6612540	0.6759598	0.6962518	0.6923052	0.6870	AVRG		2.1508
26)AMC 2-Nitrophenol	0.1828180	0.1739446 0.1851536	0.1621400	0.1702092	0.1770014	0.1823131	0.1762	AVRG		4.6369
27)AM 2,4-Dimethylphenol	0.2550607	0.2816336 0.2578290	0.2496059	0.2458351	0.2587837	0.2554908	0.2577	AVRG		4.4579
28)AM bis(2-Chloroethoxy)metha	0.4358064	0.4963080 0.4382888	0.4416806	0.4366632	0.4516637	0.4457466	0.4495	AVRG		4.7623
29)AMC 2,4-Dichlorophenol	0.3085848	0.3315873 0.3100404	0.3005819	0.2994948	0.3108842	0.3093361	0.3101	AVRG		3.4036
30)AM Benzoic acid	0.2797099	0.2817956	0.1978952	0.2340759	0.2519362	0.2714150	0.2528	AVRG		12.8510
31)AM 1,2,4-Trichlorobenzene	0.3360369	0.3979132 0.3391096	0.3448180	0.3394649	0.3477113	0.3425359	0.3497	AVRG		6.1862
32)AM alpha-Terpineol	0.3817430	0.4118580 0.3844886	0.3705467	0.3765057	0.3912702	0.3880895	0.3864	AVRG		3.4227

Response Factor Report MSD3
GEL Laboratories, LLC

Method File : C:\msdchem\1\data\S080923.S\MSD3_8270_080523a.m
Last Update : Mon Aug 07 14:34:09 2023
Integrator : (RTE Integrator) Response via : Initial Calibration

For Linear Calibration: x = concentration ratio, y = response ratio. y = b + m1(x) + m2(xE2)

Compound b m1 m2	1 7	2 8	3 9	4 10	5	6	Avg	Curve	Exp	%RSD/r2
33)AM Naphthalene	1.3981057	1.2013241	1.0483390	1.0310463	1.0501684	1.0405475				
	1.0097581	1.0075606					1.0984	AVRG		12.3711
34)AM 4-Chloroaniline		0.4729423	0.4256346	0.4246632	0.4404120	0.4345706				
	0.4239476	0.4222657					0.4349	AVRG		4.1429
35)AMC Hexachlorobutadiene		0.2406574	0.2085587	0.2047365	0.2141852	0.2099865				
	0.2067981	0.2068461					0.2131	AVRG		5.8723
36)AMC 4-Chloro-3-methylphenol		0.3258321	0.3006760	0.3007203	0.3111302	0.3109206				
	0.3094737	0.3128774					0.3102	AVRG		2.7415
37)AM 2-Methylnaphthalene	0.8548666	0.7629554	0.6623544	0.6523132	0.6735736	0.6759071				
	0.6693450	0.6640852					0.7019	AVRG		10.0907
38)AM 1-Methylnaphthalene	0.8060743	0.7479412	0.6452912	0.6439241	0.6614140	0.6550866				
	0.6494287	0.6433783					0.6816	AVRG		8.9829
40)AMP Hexachlorocyclopentadien		0.4783855	0.4352372	0.4417826	0.4533428	0.4573606				
	0.4601094	0.4667246					0.4561	AVRG		3.1959
41)AM 2,3-Dichloroaniline		0.8331985	0.7350108	0.7376937	0.7581574	0.7559807				
	0.7549987	0.7643750					0.7628	AVRG		4.3117
42)AMC 2,4,6-Trichlorophenol		0.4942073	0.4437889	0.4599067	0.4990892	0.4946309				
	0.4968254	0.4936933					0.4832	AVRG		4.5469
43)AM 2,4,5-Trichlorophenol		0.5323910	0.4730483	0.4890707	0.4648679	0.4762032				
	0.4836077	0.4938537					0.4876	AVRG		4.5259
44)SA 2-Fluorobiphenyl		1.8196663	1.5740914	1.5385564	1.5718408	1.5610127				
	1.5468711	1.5602235					1.5960	AVRG		6.2293
45)AM 2-Chloronaphthalene	1.7401367	1.5434142	1.3439076	1.3270879	1.3397878	1.3240019				
	1.3220703	1.3324586					1.4091	AVRG		10.8656
46)AM o-Nitroaniline		0.3928185	0.3774883	0.4091084	0.4224710	0.4301890				
	0.4324114	0.4409007					0.4151	AVRG		5.5592
47)A 1,4-Dinitrobenzene		0.1755899	0.1700135	0.1832321	0.1921824	0.2013771				
	0.2027990	0.2092004					0.1906	AVRG		7.7715
48)AM m-Nitroaniline		0.3728697	0.3541984	0.3666522	0.3781305	0.3775898				
	0.3841248	0.3805711					0.3734	AVRG		2.7239

Response Factor Report MSD3
GEL Laboratories, LLC

Method File : C:\msdchem\1\data\S080923.S\MSD3_8270_080523a.m
Last Update : Mon Aug 07 14:34:09 2023
Integrator : (RTE Integrator) Response via : Initial Calibration

For Linear Calibration: x = concentration ratio, y = response ratio. y = b + m1(x) + m2(xE2)

Compound	1	2	3	4	5	6	Avg	Curve	Exp	%RSD/r2
b m1 m2	7	8	9	10						
49)AM Dimethylphthalate	1.7225681	1.6975472	1.5341878	1.5356252	1.5372821	1.5320199				
	1.5244458	1.5295885					1.5767	AVRG		5.2453
50)A m-Dinitrobenzene		0.2037101	0.2010014	0.2161883	0.2222381	0.2290652				
	0.2307322	0.2359381					0.2198	AVRG		6.1508
51)AM 2,6-Dinitrotoluene		0.3374693	0.3177379	0.3229653	0.3328747	0.3285570				
	0.3362298	0.3405672					0.3309	AVRG		2.4999
52)AM 2,4-Dinitrotoluene		0.4304263	0.4128710	0.4339801	0.4490640	0.4564379				
	0.4587955	0.4683283					0.4443	AVRG		4.3532
53)AM Acenaphthylene	2.2991224	2.3776410	2.1267998	2.0797834	2.1103359	2.0881628				
	2.0921086	2.1052993					2.1599	AVRG		5.2348
54)AMC Acenaphthene	1.5828639	1.4747248	1.2968449	1.2948077	1.3239957	1.3164125				
	1.3029942	1.3285917					1.3652	AVRG		7.7467
55)AMP 2,4-Dinitrophenol			0.1682010	0.1859148	0.1978671	0.2083628				
	0.2138364	0.2202875					0.1991	AVRG		9.7454
56)AM Dibenzofuran		2.1952507	1.9200389	1.8508244	1.8957427	1.8418188				
	1.8359832	1.8479639					1.9125	AVRG		6.7200
57)A 2,3,4,6-Tetrachloropheno		0.4469611	0.4115904	0.4253228	0.4372606	0.4506082				
	0.4541118	0.4627403					0.4412	AVRG		4.0296
58)AM Diethylphthalate	1.7485831	1.7316725	1.5453779	1.5670566	1.5950701	1.5817623				
	1.5704059	1.5921951					1.6165	AVRG		4.8256
59)AMP 4-Nitrophenol		0.2249613	0.2153267	0.2278405	0.2335980	0.2372540				
	0.2331910	0.2357268					0.2297	AVRG		3.3406
60)AM Fluorene	1.8545015	1.7252972	1.5189878	1.5580112	1.5790351	1.5658210				
	1.5416737	1.5483517					1.6115	AVRG		7.2453
61)AM 4-Chlorophenylphenylethe		0.8563281	0.7575309	0.7481850	0.7676256	0.7507518				
	0.7491096	0.7543965					0.7691	AVRG		5.0730
62)AM p-Nitroaniline		0.3632450	0.3524278	0.3801960	0.3857211	0.3891935				
	0.3921394	0.3913039					0.3792	AVRG		4.0695
63)SA 2,4,6-Tribromophenol		0.3886505	0.3625612	0.3755945	0.3826428	0.3884567				
	0.3910242	0.4034732					0.3846	AVRG		3.3554

Response Factor Report MSD3
GEL Laboratories, LLC

Method File : C:\msdchem\1\data\S080923.S\MSD3_8270_080523a.m
Last Update : Mon Aug 07 14:34:09 2023
Integrator : (RTE Integrator) Response via : Initial Calibration

For Linear Calibration: x = concentration ratio, y = response ratio. y = b + m1(x) + m2(xE2)

Compound b m1 m2	1 7	2 8	3 9	4 10	5	6	Avg	Curve	Exp	%RSD/r2
65)AM 2-Methyl-4,6-dinitrophen		0.1095448	0.1034931	0.1154685	0.1206535	0.1269088				
	0.1283810	0.1294585					0.1191	AVRG		8.4283
66)AMC Diphenylamine		0.7171051	0.6368015	0.6475082	0.6545642	0.6514710				
	0.6500201	0.6448957					0.6575	AVRG		4.0910
67)AM 1,2-Diphenylhydrazine		0.8694803	0.7908798	0.8117437	0.8119987	0.7919798				
	0.7867347	0.7779156					0.8058	AVRG		3.8194
68)AM 4-Bromophenylphenylether		0.2758756	0.2464072	0.2468784	0.2503599	0.2507168				
	0.2502941	0.2511910					0.2531	AVRG		4.0387
69)AM Hexachlorobenzene		0.3684610	0.3300166	0.3223003	0.3291543	0.3280770				
	0.3281118	0.3250217					0.3330	AVRG		4.7596
70)AMC Pentachlorophenol		0.1713282	0.1615076	0.1739856	0.1820808	0.1899786				
	0.1926206	0.1945084					0.1809	AVRG		6.8536
71)AM n-Octadecane		0.6947296	0.6298884	0.6381858	0.6637981	0.6483778				
	0.6491959	0.6432729					0.6525	AVRG		3.2752
72)A Dinoseb		0.1458692	0.1447375	0.1671239	0.1817996	0.1971833				
	0.2029507	0.2066053					0.1780	AVRG		14.6473
73)AM Phenanthrene	1.5146455	1.2781999	1.1344340	1.1181143	1.1301732	1.1234927				
	1.1115132	1.1033281					1.1892	AVRG		12.0227
74)AM Anthracene	1.2783266	1.2639253	1.1049514	1.1363657	1.1485072	1.1476551				
	1.1210611	1.1033010					1.1630	AVRG		5.9335
75)AM Carbazole	1.1101972	1.1273731	1.0049590	1.0172525	1.0323381	1.0178213				
	1.0067303	1.0127800					1.0412	AVRG		4.6904
76)AM Di-n-butylphthalate	1.1658839	1.2728236	1.1910021	1.2724339	1.3140346	1.3236030				
	1.3171150	1.3004243					1.2697	AVRG		4.7117
77)AMC Fluoranthene	1.3851760	1.3585841	1.2034803	1.2201289	1.2533679	1.2497780				
	1.2462902	1.2380868					1.2694	AVRG		5.1820
78)AM Pyrene	1.4812499	1.4462452	1.2798268	1.2978768	1.3167430	1.3154173				
	1.3037144	1.2999052					1.3426	AVRG		5.6757
79)SA p-Terphenyl-d14		1.1897014	1.0632927	1.0711409	1.0897986	1.0859267				
	1.0757838	1.0639375					1.0914	AVRG		4.0796

Response Factor Report MSD3
GEL Laboratories, LLC

Method File : C:\msdchem\1\data\S080923.S\MSD3_8270_080523a.m
Last Update : Mon Aug 07 14:34:09 2023
Integrator : (RTE Integrator) Response via : Initial Calibration

For Linear Calibration: x = concentration ratio, y = response ratio. y = b + m1(x) + m2(xE2)

Compound b m1 m2	1 7	2 8	3 9	4 10	5	6	Avg	Curve	Exp	%RSD/r2
81)AM Butylbenzylphthalate	0.3773915	0.4171519	0.3982373	0.4389293	0.4670917	0.4887562				
	0.4992767	0.5088411					0.4495	AVRG		10.9111
82)AM bis(2-Ethylhexyl)phthala	0.5646039	0.7133073	0.6853788	0.7485162	0.7852616	0.8006920				
	0.8088769	0.8099645					0.7396	AVRG		11.4164
83)AM Benzo(a)anthracene	1.4533491	1.3810572	1.2174920	1.1958567	1.2369029	1.2182221				
	1.2062542	1.2013220					1.2638	AVRG		7.7096
84)AM Chrysene	1.4669659	1.2468709	1.0939551	1.0844929	1.0805275	1.0878025				
	1.0879738	1.0930278					1.1552	AVRG		11.9257
85)A Methoxychlor		0.6310650	0.6084322	0.6486527	0.6874519	0.7209128				
	0.7357077	0.7437564					0.6823	AVRG		7.8839
86)A Methylenebis(2-chloroani		0.2157090	0.1967148	0.2108812	0.2219807	0.2315494				
	0.2369783	0.2407184					0.2221	AVRG		7.0445
87)AMC Di-n-octylphthalate	0.8611312	0.9459167	0.9318369	1.0693654	1.1547312	1.2252025				
	1.2650208						1.0647	AVRG		14.7117
89)AM Benzo(b)fluoranthene	1.3237061	1.2640413	1.0921008	1.1092225	1.1166193	1.1361684				
	1.1532366	1.1278886					1.1654	AVRG		7.1137
90)AM Benzo(k)fluoranthene	1.1666575	1.1972150	1.0880391	1.0498818	1.0893694	1.0780500				
	1.0392772	1.0639024					1.0965	AVRG		5.1170
91)AMC Benzo(a)pyrene	0.9554465	1.0269387	0.9335511	0.9462743	0.9777562	0.9907996				
	0.9859633	0.9885921					0.9757	AVRG		3.0458
92)AM Indeno(1,2,3-cd)pyrene	1.1352772	1.1858798	1.0751606	1.0693079	1.0635843	1.0678725				
	1.0289796	0.9830768					1.0761	AVRG		5.7388
93)AM Dibenzo(a,h)anthracene	1.1936284	1.2944077	1.1439474	1.1420493	1.1578535	1.1730908				
	1.1667163	1.1791384					1.1814	AVRG		4.1365
94)AM Benzo(ghi)perylene	1.2824781	1.2558996	1.1151718	1.1030401	1.1177448	1.1426887				
	1.1227173	1.1389963					1.1598	AVRG		5.9527
95)A Dibenzo(a,e)pyrene		1.1966564	1.0488977	1.0225131	1.0292861	1.0495448				
	1.0371611	1.0718656					1.0651	AVRG		5.6506
97)BM 1,4-Dioxane		0.7128275	0.5807037	0.6042970	0.5925268	0.6100218				
	0.6585353	0.6195880	0.6318807	0.5969941			0.6230	AVRG		6.5528

Response Factor Report MSD3
GEL Laboratories, LLC

Method File : C:\msdchem\1\data\S080923.S\MSD3_8270_080523a.m
Last Update : Mon Aug 07 14:34:09 2023
Integrator : (RTE Integrator) Response via : Initial Calibration

For Linear Calibration: x = concentration ratio, y = response ratio. y = b + m1(x) + m2(xE2)

Compound	1	2	3	4	5	6	Avg	Curve	Exp	%RSD/r2
b m1 m2	7	8	9	10						
98)B Methyl methacrylate		1.0337429	0.8321959	0.8923974	0.8756149	0.9002559				
	0.9594147	0.9155189	0.9120397	0.8796753			0.9112	AVRG		6.2967
99)B Ethyl methacrylate		1.6031467	1.3273620	1.3895490	1.3977875	1.4442345				
	1.5331299	1.4758919	1.4224303	1.3882816			1.4424	AVRG		5.8283
100)B 2-Picoline		1.8156167	1.5007869	1.5512358	1.5660956	1.6081063				
	1.7618706	1.6975905	1.6136120	1.5548450			1.6300	AVRG		6.4997
101)B N-Nitrosomethylethylamin		0.6849143	0.5624270	0.6028011	0.6040980	0.6308558				
	0.6931608	0.6642723	0.6216341	0.6041731			0.6298	AVRG		6.8508
102)B Methyl methanesulfonate		1.0354767	0.8704608	0.8784229	0.8835617	0.8805434				
	0.9383971	0.8913348	0.9151615	0.8668573			0.9067	AVRG		5.8900
103)B N-Nitrosodiethylamine		0.6411807	0.5417570	0.5919889	0.6062445	0.6325681				
	0.7020968	0.6751748	0.6090054	0.6078260			0.6231	AVRG		7.5425
104)B 2-Butoxyethanol		2.0833929	1.7747623	1.8853055	1.9201126	1.9917883				
	2.1846634	2.1240321	1.9375201	1.9127015			1.9794	AVRG		6.5499
105)B Ethyl methanesulfonate		1.4539150	1.2092747	1.2334116	1.2471735	1.2853116				
	1.4075401	1.3521511	1.2890404	1.2347335			1.3014	AVRG		6.5432
106)BM Benzaldehyde		1.4610233	1.2047345	1.1755451	1.1717229	1.0691254				
	1.0234420	0.8847446	1.0365536	1.1243485			1.1279	AVRG		14.1199
107)B Pentachloroethane		0.6862579	0.5617018	0.5991505	0.6036113	0.6152190				
	0.6747371	0.6386845	0.6196762	0.6055817			0.6227	AVRG		6.2195
108)BM N-Nitrosopyrrolidine		0.6613788	0.5730304	0.6341138	0.6432925	0.6992323				
	0.7735968	0.7453253	0.6523193	0.6631171			0.6717	AVRG		8.9746
109)BM Acetophenone		2.3996272	2.0672174	2.1666860	2.1983623	2.2798359				
	2.5072110	2.4162182	2.2509531	2.1953545			2.2757	AVRG		6.1581
110)B N-Nitrosomorpholine		1.1489933	0.9705326	1.0135559	1.0160358	1.0702807				
	1.1730181	1.1138745	1.0602229	1.0288240			1.0661	AVRG		6.3292
111)B o-Toluidine		2.6588215	2.2300099	2.2978507	2.3259569	2.4417018				
	2.6778467	2.5614396	2.3797745	2.3418411			2.4350	AVRG		6.6466
113)B N-Nitrosopiperidine		0.1659280	0.1515979	0.1591708	0.1635231	0.1674254				
	0.1823398	0.1745659	0.1645008	0.1594473			0.1654	AVRG		5.4267

For Linear Calibration: x = concentration ratio, y = response ratio. y = b + m1(x) + m2(xE2)

Compound			1	2	3	4	5	6	Avg	Curve	Exp	%RSD/r2
b	m1	m2	7	8	9	10						
114)B	a,a-Dimethylphenethylami			1.1418453	1.1100614	1.2061081	1.1956468	1.2353714				
			1.2522151	1.1630716	1.2216524	1.1809062			1.1897	AVRG		3.8449
115)BM	2,6-Dichlorophenol			0.3037538	0.2733382	0.2897034	0.2938211	0.3104754				
			0.3370388	0.3229612	0.2985462	0.2926928			0.3025	AVRG		6.2706
116)B	Hexachloropropene			0.2441021	0.2113165	0.2241173	0.2326439	0.2353253				
			0.2578716	0.2451250	0.2270312	0.2246682			0.2336	AVRG		5.9506
117)BM	Caprolactam			0.0795740	0.0753202	0.0879270	0.0893360	0.0956885				
			0.1069968	0.1014381	0.0862526	0.0908302			0.0904	AVRG		11.0270
118)B	N-Nitrosodi-n-butylamine			0.2248589	0.2003282	0.2386701	0.2397882	0.2507569				
			0.2709540	0.2559084	0.2276235	0.2405483			0.2388	AVRG		8.4692
119)B	Safrole			0.2868299	0.2550030	0.2633769	0.2672894	0.2793285				
			0.3039197	0.2910352	0.2711023	0.2667400			0.2761	AVRG		5.6112
121)B	1,2,4,5-Tetrachlorobenze			0.7116346	0.6280267	0.6257877	0.6466239	0.6581808				
			0.7282249	0.6789981	0.6517972	0.6331842			0.6625	AVRG		5.5427
122)BM	1,1-Biphenyl			1.8489190	1.6080519	1.6125593	1.6507097	1.6944343				
			1.8363493	1.7024716	1.6575198	1.6260576			1.6930	AVRG		5.3718
123)B	Isosafrole			0.5644310	0.5156634	0.5267040	0.5448826	0.5626901				
			0.6170981	0.5749384	0.5322054	0.5374443			0.5529	AVRG		5.5894
124)B	1,4-Naphthoquinone			0.4013645	0.4019423	0.4580472	0.4917197	0.5092717				
			0.5338924	0.4837420	0.4500152	0.4899474			0.4689	AVRG		9.7024
125)B	Pentachlorobenzene			0.6978331	0.6148756	0.6234352	0.6312852	0.6559454				
			0.7121854	0.6671587	0.6405175	0.6235833			0.6519	AVRG		5.2949
126)B	1-Naphthylamine			1.4028320	1.2915710	1.3293489	1.3547200	1.3834952				
			1.4968068	1.3677073	1.3553500	1.3384353			1.3689	AVRG		4.2109
127)B	2-Naphthylamine			1.4618862	1.3612829	1.3756429	1.3850072	1.3904519				
			1.4940192	1.3551100	1.4105201	1.3547130			1.3987	AVRG		3.5061
128)B	5-Nitro-o-toluidine			0.3008270	0.3180180	0.3629867	0.3783618	0.4112408				
			0.4568556	0.4229366	0.3543348	0.3872408			0.3770	AVRG		13.1827
130)B	1,3,5-Trinitrobenzene			0.1669863	0.1694938	0.1891793	0.1974190	0.2110661				
			0.2410312	0.2223340	0.1866427	0.2002907			0.1983	AVRG		12.0950

Response Factor Report MSD3
GEL Laboratories, LLC

Method File : C:\msdchem\1\data\S080923.S\MSD3_8270_080523a.m
Last Update : Mon Aug 07 14:34:09 2023
Integrator : (RTE Integrator) Response via : Initial Calibration

For Linear Calibration: x = concentration ratio, y = response ratio. y = b + m1(x) + m2(xE2)

Compound	1	2	3	4	5	6	Avg	Curve	Exp	%RSD/r2
b m1 m2	7	8	9	10						
131)B Phenacetin		0.3382314	0.3473658	0.3828389	0.3991965	0.4193637				
	0.4724349	0.4305034	0.3777347	0.4026225			0.3967	AVRG		10.4839
132)B Diallate		0.2357737	0.2236481	0.2360811	0.2408511	0.2467743				
	0.2740940	0.2499438	0.2383250	0.2383542			0.2426	AVRG		5.7380
133)B Cis Diallate		0.2773809	0.2631154	0.2777424	0.2833542	0.2903227				
	0.3224636	0.2940515	0.2803824	0.2804167			0.2855	AVRG		5.7380
134)B Trans Diallate		0.5441236	0.5221816	0.5280813	0.5503966	0.5698865				
	0.6234584	0.5786008	0.5507933	0.5518114			0.5577	AVRG		5.4417
135)BM Atrazine		0.1981268	0.1956105	0.1937070	0.1941039	0.1879501				
	0.1806445	0.1602912	0.2009946	0.1884523			0.1889	AVRG		6.5230
136)B 4-Aminobiphenyl		0.8087688	0.7690724	0.7793930	0.7676093	0.7829129				
	0.8354936	0.7513042	0.7943831	0.7794692			0.7854	AVRG		3.1702
137)B Pentachloronitrobenzene		0.0928753	0.0920198	0.0984972	0.1035554	0.1084278				
	0.1238110	0.1119656	0.0972406	0.1026635			0.1035	AVRG		9.7749
138)B Pronamide		0.3372941	0.3378970	0.3588806	0.3728803	0.3883082				
	0.4398293	0.4029773	0.3631366	0.3715288			0.3747	AVRG		8.6353
139)B 4-Nitroquinoline-1-oxide		0.0543456	0.0567274	0.0575719	0.0559253	0.0485091				
	0.0460817		0.0599454	0.0515051			0.0538	AVRG		8.8321
140)B Methapyrilene		0.4089299	0.4134468	0.4333533	0.4440503	0.4482310				
	0.4855653	0.4362905	0.4399693	0.4395620			0.4388	AVRG		5.0163
141)B Isodrin		0.1259359	0.1238100	0.1281405	0.1302869	0.1356880				
	0.1526319	0.1405256	0.1264534	0.1303076			0.1326	AVRG		6.8662
143)B Aramite		0.0402398	0.0395383	0.0445815	0.0459873	0.0482575				
	0.0545637	0.0501575	0.0438935	0.0469308			0.0460	AVRG		10.2496
144)B Kepone		0.1209662	0.1194205	0.1258050	0.1308523	0.1346840				
	0.1497837	0.1367058	0.1272316	0.1283744			0.1304	AVRG		7.0629
145)B p-(Dimethylamino)azobenz		0.1534377	0.1674565	0.1870243	0.1965561	0.2092873				
	0.2344677	0.2149913	0.1860210	0.1976104			0.1941	AVRG		12.6117
146)B Chlorobenzilate		0.3154845	0.3048654	0.3226848	0.3376554	0.3561052				
	0.4015651	0.3716122	0.3260572	0.3419515			0.3420	AVRG		8.8641

Response Factor Report MSD3
GEL Laboratories, LLC

Method File : C:\msdchem\1\data\S080923.S\MSD3_8270_080523a.m
Last Update : Mon Aug 07 14:34:09 2023
Integrator : (RTE Integrator) Response via : Initial Calibration

For Linear Calibration: x = concentration ratio, y = response ratio. y = b + m1(x) + m2(xE2)

Compound b | m1 | m2	1 7	2 8	3 9	4 10	5	6	Avg	Curve	Exp	%RSD/r2
147)B 2-Acetylaminofluorene		0.3209954	0.3364398	0.3967936	0.4214712	0.4533944				
			0.3732252	0.4313343			0.3905	AVRG		12.6634
149)B 7,12-Dimethylbenz(a)anth		0.4576975	0.4315256	0.4625183	0.4868258	0.5125497				
	0.5794750	0.5309915	0.4660761	0.4900903			0.4909	AVRG		9.1075
150)B 3-Methylcholanthrene		0.1208746	0.1113355	0.1238008	0.1283608	0.1359602				
	0.1539268	0.1409383	0.1216169	0.1304319			0.1297	AVRG		9.7150
152)J Sulfolane		0.1817539	0.1836534	0.1844583	0.1882249	0.1905653				
	0.1899621	0.1919670					0.1872	AVRG		2.0969
154)J Prometon		0.1192896	0.1240586	0.1321391	0.1417255	0.1519823				
	0.1562510	0.1594589					0.1407	AVRG		11.3520
155)JM Benzidine		0.6172422	0.7080937	0.7721595	0.8229317	0.8935885				
	0.9131416	0.9434215					0.8101	AVRG		14.6552
157)J 3,3'-Dimethylbenzidine		0.6628473	0.6507786	0.7194908	0.7663840	0.8202145				
	0.8448134	0.8866511					0.7645	AVRG		11.9140
158)JM 3,3'-Dichlorobenzidine		0.4025349	0.4216000	0.4586144	0.4839761	0.5095558				
	0.5155869	0.5400476					0.4760	AVRG		10.6842
160)D Triethylphosphorothioate		0.1878235	0.1700553	0.1769292	0.1836382	0.1886023				
	0.1918390	0.1938404					0.1847	AVRG		4.6131
162)D Thionazine		0.2245097	0.2188156	0.2369500	0.2596987	0.2728562				
	0.2780188	0.2863827					0.2539	AVRG		10.6804
163)DM Tributylphosphate		68470	155300	358299	552487	883059		1/x^2		
-0.1831 | 1.9419 | 0.00	1170998	1366172						LINR	#	0.9901
165)D Sulfotepp		0.1200629	0.1191196	0.1263624	0.1330954	0.1364363				
	0.1399732	0.1442731					0.1313	AVRG		7.4354
166)D Phorate		0.4451495	0.4535461	0.4866803	0.5171431	0.5388808				
	0.5379816	0.5551419					0.5049	AVRG		8.6563
167)D Dimethoate		0.2472272	0.2492497	0.2822352	0.3006178	0.3211421				
	0.3225594	0.3375443					0.2944	AVRG		12.2641
168)D Disulfoton		0.4270008	0.3970811	0.4148718	0.4359130	0.4490806				
	0.4532347	0.4636188					0.4344	AVRG		5.3619

Response Factor Report MSD3
GEL Laboratories, LLC

Method File : C:\msdchem\1\data\S080923.S\MSD3_8270_080523a.m
Last Update : Mon Aug 07 14:34:09 2023
Integrator : (RTE Integrator) Response via : Initial Calibration

For Linear Calibration: x = concentration ratio, y = response ratio. y = b + m1(x) + m2(xE2)

Compound	1	2	3	4	5	6	Avg	Curve	Exp	%RSD/r2
b | m1 | m2	7	8	9	10						
169)D Methyl parathion		18149	42113	101580	156638	256436		1/x		
-0.0403 | 0.2709 | 0.00	344611	406685						LINR	#	0.9934
170)D Parathion		5879	13977	34980	52622	85957		1/x		
-0.0134 | 0.0904 | 0.00	115313	134066						LINR	#	0.9953
172)D Famphur		0.3945805	0.3927766	0.4432811	0.4743851	0.5026649				
	0.5137119	0.5369446					0.4655	AVRG		12.3103
174)E p-Phenylenediamine		0.5963135	0.6046075	0.6238983	0.5902424	0.6150577				
	0.5999655						0.6050	AVRG		2.0605
176)E Hexachlorophene		0.1013384	0.1186392	0.1317646	0.1376308	0.1471091				
	0.1486320						0.1309	AVRG		13.8718

(#) = Out of Range ($) = Individual RF Out of Range
AVRG = Average, LINR = Linear Regression, 1/x = the inverse of concentration, 1/x^2 = the inverse square of concentration

Quantitation Report

LOF 08/07/2023

Data Path : C:\msdchem\1\data\S080523a\
Data File : s3H0502.D
Acq On : 05 Aug 2023 10:57
Operator : LOF
Sample : |WBN230731-01.1|ICAL|1|SVM|1|M-1
Misc : |MIX[A]
ALS Vial : 2 Sample Multiplier: 1

JCB 08/07/2023

Quant Time: Aug 07 14:28:52 2023
Quant Method : C:\msdchem\1\data\S080523a\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:28:22 2023
Response via : Initial Calibration

Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	Dev(Min)
Internal Standards								
1) A 1,4-Dichlorobenzene-d4	152	4.108	4.113	1.000	115944	40.00	ng/uL	0.00
22) A Naphthalene-d8	136	5.525	5.525	1.000	459908	40.00	ng/uL	0.00
39) A Acenaphthene-d10	164	7.258	7.258	1.000	236786	40.00	ng/uL	0.00
64) A Phenanthrene-d10	188	8.558	8.558	1.000	486292	40.00	ng/uL	0.00
80) A Chrysene-d12	240	10.959	10.965	1.000	525820	40.00	ng/uL	0.00
88) A Perylene-d12	264	13.147	13.147	1.000	544290	40.00	ng/uL	0.00
96) B 1,4-Dichlorobenzene-d4	152	4.108	4.112	1.000	0m	40.00	ng/uL	0.00
112) B Naphthalene-d8	136	5.525	5.527	1.000	0m	40.00	ng/uL	0.00
120) B Acenaphthene-d10	164	7.258	7.257	1.000	0m	40.00	ng/uL	0.00
129) B Phenanthrene-d10	188	8.558	8.562	1.000	0m	40.00	ng/uL	0.00
142) B Chrysene-d12	240	10.959	10.959	1.000	0m	40.00	ng/uL	0.00
148) B Perylene-d12	264	13.147	13.148	1.000	0m	40.00	ng/uL	0.00
151) J Naphthalene-d8	136	5.525	5.525	1.000	0m	40.00	ng/uL	0.00
153) J Phenanthrene-d10	188	8.558	8.559	1.000	0m	40.00	ng/uL	0.00
156) J Chrysene-d12	240	10.959	10.959	1.000	0m	40.00	ng/uL	0.00
159) D Naphthalene-d8	136	5.525	5.525	1.000	0m	40.00	ng/uL	0.00
161) D Acenaphthene-d10	164	7.258	7.256	1.000	0m	40.00	ng/uL	0.00
164) D Phenanthrene-d10	188	8.558	8.560	1.000	0m	40.00	ng/uL	0.00
171) D Chrysene-d12	240	10.959	10.960	1.000	0m	40.00	ng/uL	0.00
173) E Naphthalene-d8	136	5.525	5.525	1.000	0m	40.00	ng/uL	0.00
175) E Perylene-d12	264	13.147	13.158	1.000	0m	40.00	ng/uL	-0.01
System Monitoring Compounds								Dev(Min)
5) 2-Fluorophenol	112	2.803	2.803	0.682	4524	1.14	ng/uL	0.00
8) Phenol-d5	99	3.674	3.680	0.895	5516	1.16	ng/uL	0.00
23) Nitrobenzene-d5	82	4.712	4.712	0.853	5128	1.15	ng/uL	0.00
44) 2-Fluorobiphenyl	172	6.627	6.627	0.913	11965	1.27	ng/uL	0.00
63) 2,4,6-Tribromophenol	330	7.953	7.959	1.096	2111	0.93	ng/uL	0.00
79) p-Terphenyl-d14	244	9.890	9.890	1.156	15523	1.17	ng/uL	0.00
Target Compounds	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	QValue
3) N-Methyl-N-nitrosometh...	74	1.802	1.797	0.439	2861	1.10	ng/uL#	54
33) Naphthalene	128	5.546	5.552	1.004	16075	1.27	ng/uL	99
37) 2-Methylnaphthalene	142	6.268	6.269	1.135	9829	1.22	ng/uL	98
38) 1-Methylnaphthalene	142	6.365	6.365	1.152	9268	1.18	ng/uL	97
45) 2-Chloronaphthalene	162	6.739	6.739	0.929	10301	1.23	ng/uL	96
49) Dimethylphthalate	163	7.001	7.007	0.965	10197	1.09	ng/uL	99
53) Acenaphthylene	152	7.124	7.130	0.982	13610	1.06	ng/uL	99
54) Acenaphthene	154	7.285	7.290	1.004	9370	1.16	ng/uL	94
58) Diethylphthalate	149	7.632	7.643	1.052	10351	1.08	ng/uL	98
60) Fluorene	166	7.745	7.750	1.067	10978	1.15	ng/uL	98
73) Phenanthrene	178	8.579	8.579	1.003	18414	1.27	ng/uL	96
74) Anthracene	178	8.622	8.622	1.008	15541	1.10	ng/uL	98
75) Carbazole	167	8.750	8.756	1.023	13497	1.07	ng/uL	95
76) Di-n-butylphthalate	149	9.028	9.029	1.055	14174	0.92	ng/uL	96
77) Fluoranthene	202	9.579	9.585	1.119	16840	1.09	ng/uL	95
78) Pyrene	202	9.772	9.777	1.142	18008	1.10	ng/uL	95
81) Butylbenzylphthalate	149	10.317	10.323	0.941	4961	0.84	ng/uL	98
82) bis(2-Ethylhexyl)phtha...	149	10.943	10.943	0.999	7422	0.76	ng/uL	100
83) Benzo(a)anthracene	228	10.949	10.949	0.999	19105	1.15	ng/uL	96
84) Chrysene	228	10.991	10.997	1.003	19284	1.27	ng/uL	98
87) Di-n-octylphthalate	149	11.842	11.847	1.081	11320	0.81	ng/uL	83
89) Benzo(b)fluoranthene	252	12.473	12.484	0.949	18012	1.14	ng/uL	96
90) Benzo(k)fluoranthene	252	12.521	12.532	0.952	15875	1.06	ng/uL	93
91) Benzo(a)pyrene	252	13.040	13.051	0.992	13001	0.98	ng/uL	95

Quantitation Report

Data Path : C:\msdchem\1\data\S080523a\
Data File : s3H0502.D
Acq On : 05 Aug 2023 10:57
Operator : LOF
Sample : |WBN230731-01.1|ICAL|1|SVM|1|M-1
Misc : |MIX[A]
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 07 14:28:52 2023
Quant Method : C:\msdchem\1\data\S080523a\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:28:22 2023
Response via : Initial Calibration

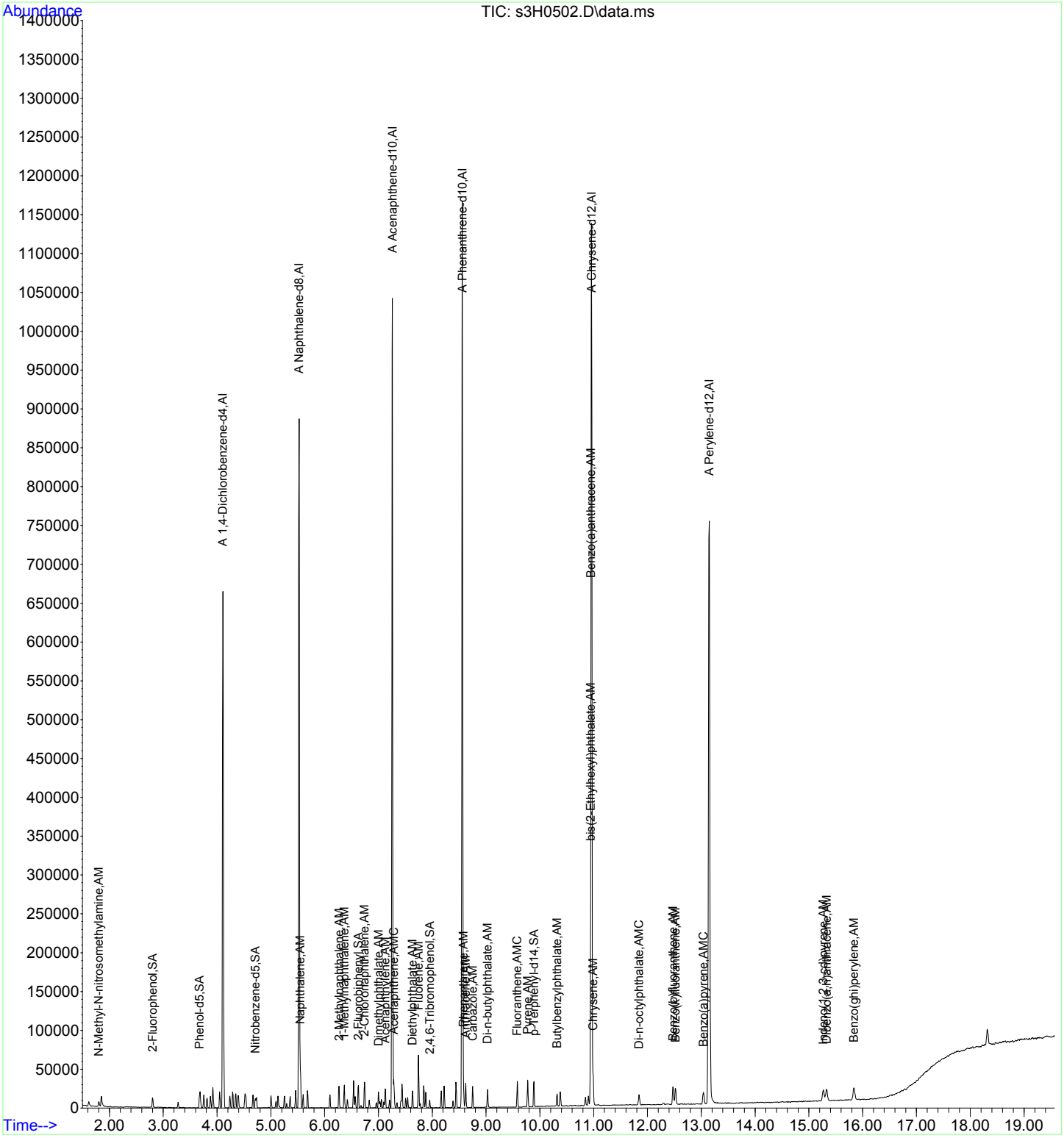
Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	
92) Indeno(1,2,3-cd)pyrene	276	15.270	15.286	1.162	15448	1.04	ng/uL	91
93) Dibenzo(a,h)anthracene	278	15.329	15.345	1.166	16242	1.01	ng/uL	92
94) Benzo(ghi)perylene	276	15.837	15.864	1.205	17451	1.11	ng/uL	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(A) = Over the calibration range (d) = deleted

Quantitation Report

Data Path : C:\msdchem\1\data\S080523a\
Data File : s3H0502.D
Acq On : 05 Aug 2023 10:57
Operator : LOF
Sample : |WBN230731-01.1|ICAL|1|SVM|1|M-1
Misc : |MIX[A]
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 07 14:28:52 2023
Quant Method : C:\msdchem\1\data\S080523a\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:28:22 2023
Response via : Initial Calibration



Quantitation Report

Data Path : C:\msdchem\1\data\S080523a\
Data File : s3H0503.D
Acq On : 05 Aug 2023 11:22
Operator : LOF
Sample : |WBN230731-02.1|ICAL|1|SVM|1|M-2
Misc : |MIX[A]
ALS Vial : 3 Sample Multiplier: 1

08/07/2023

08/07/2023

Quant Time: Aug 07 14:28:55 2023
Quant Method : C:\msdchem\1\data\S080523a\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:28:22 2023
Response via : Initial Calibration

Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	
Internal Standards								Dev(Min)
1) A 1,4-Dichlorobenzene-d4	152	4.108	4.113	1.000	142080	40.00	ng/uL	0.00
22) A Naphthalene-d8	136	5.525	5.525	1.000	568526	40.00	ng/uL	0.00
39) A Acenaphthene-d10	164	7.258	7.258	1.000	291748	40.00	ng/uL	0.00
64) A Phenanthrene-d10	188	8.558	8.558	1.000	601909	40.00	ng/uL	0.00
80) A Chrysene-d12	240	10.959	10.965	1.000	672647	40.00	ng/uL	0.00
88) A Perylene-d12	264	13.147	13.147	1.000	708942	40.00	ng/uL	0.00
96) B 1,4-Dichlorobenzene-d4	152	4.108	4.112	1.000	0m	40.00	ng/uL	0.00
112) B Naphthalene-d8	136	5.525	5.527	1.000	0m	40.00	ng/uL	0.00
120) B Acenaphthene-d10	164	7.258	7.257	1.000	0m	40.00	ng/uL	0.00
129) B Phenanthrene-d10	188	8.558	8.562	1.000	0m	40.00	ng/uL	0.00
142) B Chrysene-d12	240	10.959	10.959	1.000	0m	40.00	ng/uL	0.00
148) B Perylene-d12	264	13.147	13.148	1.000	0m	40.00	ng/uL	0.00
151) J Naphthalene-d8	136	5.525	5.525	1.000	0m	40.00	ng/uL	0.00
153) J Phenanthrene-d10	188	8.558	8.559	1.000	0m	40.00	ng/uL	0.00
156) J Chrysene-d12	240	10.959	10.959	1.000	0m	40.00	ng/uL	0.00
159) D Naphthalene-d8	136	5.525	5.525	1.000	0m	40.00	ng/uL	0.00
161) D Acenaphthene-d10	164	7.258	7.256	1.000	0m	40.00	ng/uL	0.00
164) D Phenanthrene-d10	188	8.558	8.560	1.000	0m	40.00	ng/uL	0.00
171) D Chrysene-d12	240	10.959	10.960	1.000	0m	40.00	ng/uL	0.00
173) E Naphthalene-d8	136	5.525	5.525	1.000	0m	40.00	ng/uL	0.00
175) E Perylene-d12	264	13.147	13.158	1.000	0m	40.00	ng/uL	-0.01
System Monitoring Compounds								Dev(Min)
5) 2-Fluorophenol	112	2.803	2.803	0.682	53186	10.97	ng/uL	0.00
8) Phenol-d5	99	3.674	3.680	0.895	62773	10.79	ng/uL	0.00
23) Nitrobenzene-d5	82	4.712	4.712	0.853	58782	10.70	ng/uL	0.00
44) 2-Fluorobiphenyl	172	6.627	6.627	0.913	132721	11.40	ng/uL	0.00
63) 2,4,6-Tribromophenol	330	7.953	7.959	1.096	28347	10.10	ng/uL	0.00
79) p-Terphenyl-d14	244	9.889	9.890	1.156	179023	10.90	ng/uL	0.00

Target Compounds	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	QValue
2) 2-Ethoxyethanol	59	1.610	1.610	0.392	37990	10.67	ng/uL	90
3) N-Methyl-N-nitrosometh...	74	1.797	1.797	0.437	34868	10.97	ng/uL#	67
4) Pyridine	79	1.840	1.840	0.448	61050	11.08	ng/uL	67
6) p-Benzoquinone	54	3.279	3.279	0.798	33097	9.53	ng/uL	78
7) Aniline	93	3.755	3.760	0.914	76729	10.87	ng/uL	92
9) Phenol	94	3.690	3.696	0.898	68491	10.92	ng/uL	90
10) bis(2-Chloroethyl) ether	93	3.813	3.819	0.928	57361	11.26	ng/uL	87
11) 2-Chlorophenol	128	3.878	3.878	0.944	55919	10.92	ng/uL	93
12) n-Decane	43	3.926	3.926	0.956	85618	11.39	ng/uL	89
13) 1,3-Dichlorobenzene	146	4.049	4.049	0.986	66421	11.31	ng/uL	99
14) 1,4-Dichlorobenzene	146	4.129	4.129	1.005	67543	11.23	ng/uL	99
15) 1,2-Dichlorobenzene	146	4.289	4.295	1.044	64631	11.32	ng/uL	99
16) bis(2-Chloro-1-methyle...	45	4.396	4.397	1.070	109742	11.27	ng/uL	88
17) Benzyl alcohol	108	4.241	4.242	1.033	34569	10.39	ng/uL	96
18) o-Cresol	107	4.348	4.348	1.059	45501	10.92	ng/uL	99
19) m,p-Cresols	108	4.519	4.525	1.100	51477	10.57	ng/uL	97
20) N-Nitrosodipropylamine	70	4.535	4.541	1.104	38504	10.36	ng/uL	71
21) Hexachloroethane	117	4.669	4.669	1.137	25608	10.95	ng/uL	93
24) Nitrobenzene	77	4.733	4.739	0.857	61260	10.80	ng/uL	95
25) Isophorone	82	5.006	5.006	0.906	100522	10.30	ng/uL	99
26) 2-Nitrophenol	139	5.097	5.097	0.923	24723	9.87	ng/uL	89
27) 2,4-Dimethylphenol	122	5.135	5.135	0.929	40029	10.93	ng/uL	95
28) bis(2-Chloroethoxy)met...	93	5.252	5.258	0.951	70541	11.04	ng/uL	99
29) 2,4-Dichlorophenol	162	5.359	5.359	0.970	47129	10.69	ng/uL	98

Quantitation Report

Data Path : C:\msdchem\1\data\S080523a\
Data File : s3H0503.D
Acq On : 05 Aug 2023 11:22
Operator : LOF
Sample : |WBN230731-02.1|ICAL|1|SVM|1|M-2
Misc : |MIX[A]
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 07 14:28:55 2023
Quant Method : C:\msdchem\1\data\S080523a\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:28:22 2023
Response via : Initial Calibration

Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	
30) Benzoic acid	105	5.177	5.226	0.937	25585	7.12	ng/uL	99
31) 1,2,4-Trichlorobenzene	180	5.461	5.466	0.988	56556	11.38	ng/uL	97
32) alpha-Terpineol	59	5.557	5.557	1.006	58538	10.66	ng/uL	84
33) Naphthalene	128	5.546	5.552	1.004	170746	10.94	ng/uL	100
34) 4-Chloroaniline	127	5.600	5.605	1.014	67220	10.87	ng/uL	95
35) Hexachlorobutadiene	225	5.680	5.686	1.028	34205	11.29	ng/uL	100
36) 4-Chloro-3-methylphenol	107	6.097	6.103	1.104	46311	10.50	ng/uL	98
37) 2-Methylnaphthalene	142	6.268	6.269	1.135	108440	10.87	ng/uL	97
38) 1-Methylnaphthalene	142	6.365	6.365	1.152	106306	10.97	ng/uL	99
40) Hexachlorocyclopentadiene	237	6.424	6.424	0.885	34892	10.49	ng/uL	98
41) 2,3-Dichloroaniline	161	6.541	6.541	0.901	60771	10.92	ng/uL	99
42) 2,4,6-Trichlorophenol	196	6.541	6.541	0.901	36046	10.23	ng/uL	98
43) 2,4,5-Trichlorophenol	196	6.568	6.568	0.905	38831	10.92	ng/uL	99
45) 2-Chloronaphthalene	162	6.739	6.739	0.929	112572	10.95	ng/uL	97
46) o-Nitroaniline	65	6.830	6.836	0.941	28651	9.46	ng/uL	88
47) 1,4-Dinitrobenzene	168	6.964	6.964	0.959	12807	9.21	ng/uL	98
48) m-Nitroaniline	138	7.210	7.215	0.993	27196	9.98	ng/uL	95
49) Dimethylphthalate	163	7.001	7.007	0.965	123814	10.77	ng/uL	100
50) m-Dinitrobenzene	168	7.028	7.034	0.968	14858	9.27	ng/uL	80
51) 2,6-Dinitrotoluene	165	7.060	7.060	0.973	24614	10.20	ng/uL	89
52) 2,4-Dinitrotoluene	165	7.418	7.424	1.022	31394	9.69	ng/uL	89
53) Acenaphthylene	152	7.130	7.130	0.982	173418	11.01	ng/uL	98
54) Acenaphthene	154	7.285	7.290	1.004	107562	10.80	ng/uL	99
55) 2,4-Dinitrophenol	184	7.301	7.306	1.006	12673	8.73	ng/uL	99
56) Dibenzofuran	168	7.440	7.445	1.025	160115	11.48	ng/uL	100
57) 2,3,4,6-Tetrachlorophenol	232	7.504	7.510	1.034	32600	10.13	ng/uL	97
58) Diethylphthalate	149	7.638	7.643	1.052	126303	10.71	ng/uL	99
59) 4-Nitrophenol	109	7.344	7.349	1.012	16408	9.79	ng/uL	89
60) Fluorene	166	7.745	7.750	1.067	125838	10.71	ng/uL	100
61) 4-Chlorophenylphenylether	204	7.745	7.745	1.067	62458	11.13	ng/uL	97
62) p-Nitroaniline	138	7.750	7.756	1.068	26494	9.58	ng/uL	91
65) 2-Methyl-4,6-dinitroph...	198	7.777	7.782	0.909	16484	9.20	ng/uL	85
66) Diphenylamine	169	7.841	7.847	0.916	107908	10.91	ng/uL	93
67) 1,2-Diphenylhydrazine	77	7.878	7.884	0.921	130837	10.79	ng/uL	98
68) 4-Bromophenylphenylether	248	8.167	8.173	0.954	41513	10.90	ng/uL	92
69) Hexachlorobenzene	284	8.221	8.226	0.961	55445	11.06	ng/uL	99
70) Pentachlorophenol	266	8.387	8.387	0.980	25781	9.47	ng/uL	99
71) n-Octadecane	57	8.440	8.446	0.986	104541	10.65	ng/uL	86
72) Dinoseb	211	8.536	8.536	0.998	21950	8.19	ng/uL	94
73) Phenanthrene	178	8.579	8.579	1.003	192340	10.75	ng/uL	99
74) Anthracene	178	8.622	8.622	1.008	190192	10.87	ng/uL	98
75) Carbazole	167	8.750	8.756	1.023	169644	10.83	ng/uL	99
76) Di-n-butylphthalate	149	9.028	9.029	1.055	191531	10.02	ng/uL	99
77) Fluoranthene	202	9.579	9.585	1.119	204436	10.70	ng/uL	96
78) Pyrene	202	9.772	9.777	1.142	217627	10.77	ng/uL	95
81) Butylbenzylphthalate	149	10.317	10.323	0.941	70149	9.28	ng/uL	99
82) bis(2-Ethylhexyl)phtha...	149	10.938	10.943	0.998	119951	9.64	ng/uL	99
83) Benzo(a)anthracene	228	10.949	10.949	0.999	232241	10.93	ng/uL	98
84) Chrysene	228	10.991	10.997	1.003	209676	10.79	ng/uL	98
85) Methoxychlor	227	10.847	10.847	0.990	106121	9.25	ng/uL	99
86) Methylenebis(2-chloroa...	231	10.900	10.906	0.995	36274	9.71	ng/uL	94
87) Di-n-octylphthalate	149	11.842	11.847	1.081	159067	8.88	ng/uL	89
89) Benzo(b)fluoranthene	252	12.478	12.484	0.949	224033	10.85	ng/uL	96
90) Benzo(k)fluoranthene	252	12.521	12.532	0.952	212189	10.92	ng/uL	95
91) Benzo(a)pyrene	252	13.040	13.051	0.992	182010	10.53	ng/uL	96
92) Indeno(1,2,3-cd)pyrene	276	15.270	15.286	1.162	210180	10.84	ng/uL	93
93) Dibenzo(a,h)anthracene	278	15.329	15.345	1.166	229415	10.96	ng/uL	94

Quantitation Report

Data Path : C:\msdchem\1\data\S080523a\
Data File : s3H0503.D
Acq On : 05 Aug 2023 11:22
Operator : LOF
Sample : |WBN230731-02.1|ICAL|1|SVM|1|M-2
Misc : |MIX[A]
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 07 14:28:55 2023
Quant Method : C:\msdchem\1\data\S080523a\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:28:22 2023
Response via : Initial Calibration

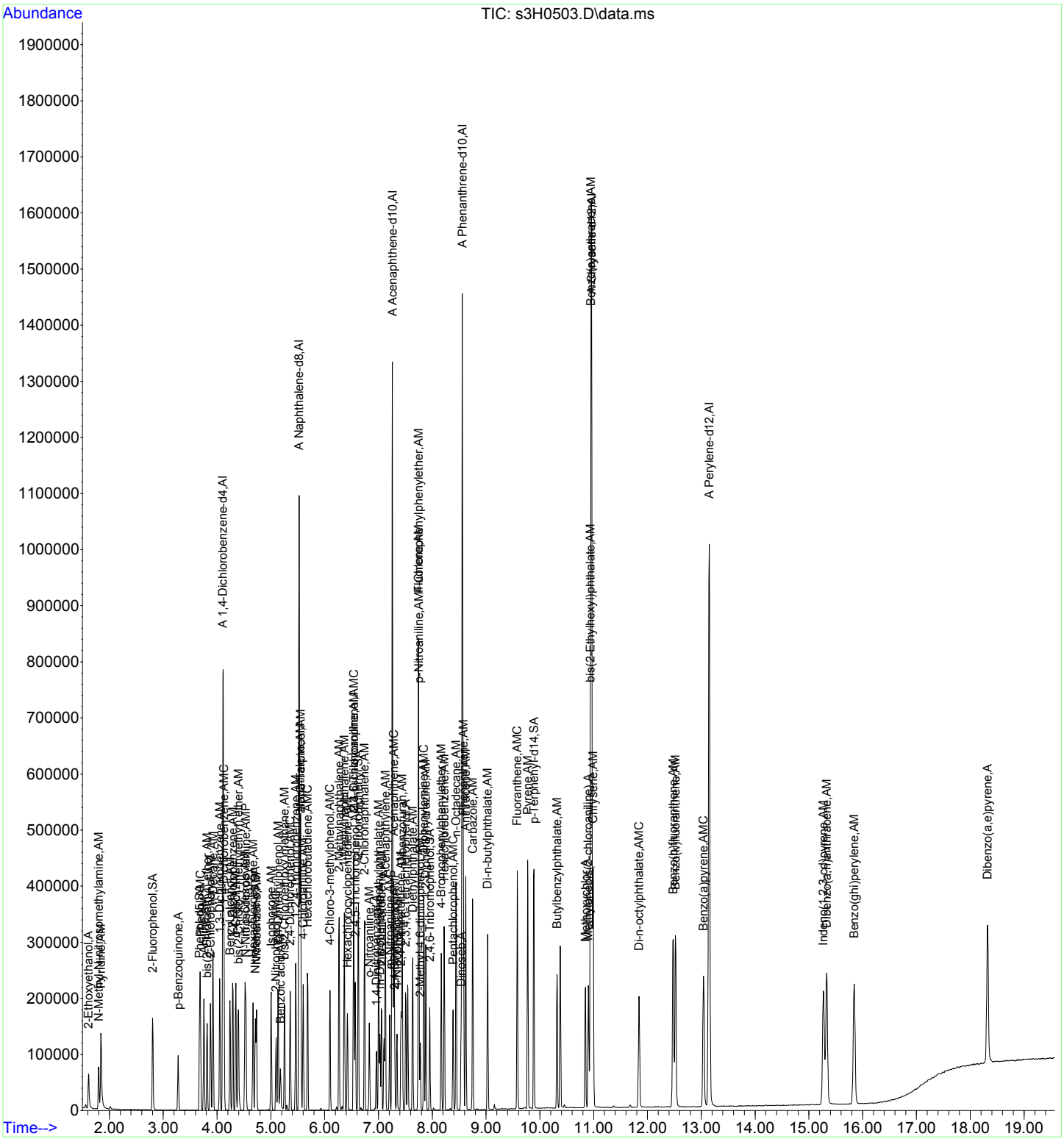
Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	
94) Benzo(ghi)perylene	276	15.843	15.864	1.205	222590	10.83	ng/uL	92
95) Dibenzo(a,e)pyrene	302	18.319	18.335	1.393	212090	11.23	ng/uL	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(A) = Over the calibration range (d) = deleted

Quantitation Report

Data Path : C:\msdchem\1\data\S080523a\
Data File : s3H0503.D
Acq On : 05 Aug 2023 11:22
Operator : LOF
Sample : |WBN230731-02.1|ICAL|1|SVM|1|M-2
Misc : |MIX[A]
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 07 14:28:55 2023
Quant Method : C:\msdchem\1\data\S080523a\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:28:22 2023
Response via : Initial Calibration



Quantitation Report

08/07/2023

Data Path : C:\msdchem\1\data\S080523a\
Data File : s3H0504.D
Acq On : 05 Aug 2023 11:46
Operator : LOF
Sample : |WBN230731-03.1|ICAL|1|SVM|1|M-3
Misc : |MIX[A]
ALS Vial : 4 Sample Multiplier: 1

08/07/2023

Quant Time: Aug 07 14:28:58 2023
Quant Method : C:\msdchem\1\data\S080523a\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:28:22 2023
Response via : Initial Calibration

Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	Dev(Min)
Internal Standards								
1) A 1,4-Dichlorobenzene-d4	152	4.108	4.113	1.000	137114	40.00	ng/uL	0.00
22) A Naphthalene-d8	136	5.525	5.525	1.000	552535	40.00	ng/uL	0.00
39) A Acenaphthene-d10	164	7.258	7.258	1.000	285789	40.00	ng/uL	0.00
64) A Phenanthrene-d10	188	8.558	8.558	1.000	589025	40.00	ng/uL	0.00
80) A Chrysene-d12	240	10.959	10.965	1.000	666020	40.00	ng/uL	0.00
88) A Perylene-d12	264	13.147	13.147	1.000	703653	40.00	ng/uL	0.00
96) B 1,4-Dichlorobenzene-d4	152	4.108	4.112	1.000	0m	40.00	ng/uL	0.00
112) B Naphthalene-d8	136	5.525	5.527	1.000	0m	40.00	ng/uL	0.00
120) B Acenaphthene-d10	164	7.258	7.257	1.000	0m	40.00	ng/uL	0.00
129) B Phenanthrene-d10	188	8.558	8.562	1.000	0m	40.00	ng/uL	0.00
142) B Chrysene-d12	240	10.959	10.959	1.000	0m	40.00	ng/uL	0.00
148) B Perylene-d12	264	13.147	13.148	1.000	0m	40.00	ng/uL	0.00
151) J Naphthalene-d8	136	5.525	5.525	1.000	0m	40.00	ng/uL	0.00
153) J Phenanthrene-d10	188	8.558	8.559	1.000	0m	40.00	ng/uL	0.00
156) J Chrysene-d12	240	10.959	10.959	1.000	0m	40.00	ng/uL	0.00
159) D Naphthalene-d8	136	5.525	5.525	1.000	0m	40.00	ng/uL	0.00
161) D Acenaphthene-d10	164	7.258	7.256	1.000	0m	40.00	ng/uL	0.00
164) D Phenanthrene-d10	188	8.558	8.560	1.000	0m	40.00	ng/uL	0.00
171) D Chrysene-d12	240	10.959	10.960	1.000	0m	40.00	ng/uL	0.00
173) E Naphthalene-d8	136	5.525	5.525	1.000	0m	40.00	ng/uL	0.00
175) E Perylene-d12	264	13.147	13.158	1.000	0m	40.00	ng/uL	-0.01
System Monitoring Compounds								Dev(Min)
5) 2-Fluorophenol	112	2.803	2.803	0.682	90792	19.41	ng/uL	0.00
8) Phenol-d5	99	3.674	3.680	0.895	109021	19.42	ng/uL	0.00
23) Nitrobenzene-d5	82	4.712	4.712	0.853	102633	19.22	ng/uL	0.00
44) 2-Fluorobiphenyl	172	6.627	6.627	0.913	224929	19.72	ng/uL	0.00
63) 2,4,6-Tribromophenol	330	7.953	7.959	1.096	51808	18.85	ng/uL	0.00
79) p-Terphenyl-d14	244	9.890	9.890	1.156	313153	19.49	ng/uL	0.00
Target Compounds	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	QValue
2) 2-Ethoxyethanol	59	1.610	1.610	0.392	65382	19.03	ng/uL	91
3) N-Methyl-N-nitrosometh...	74	1.797	1.797	0.437	57988	18.91	ng/uL#	65
4) Pyridine	79	1.840	1.840	0.448	103866	19.53	ng/uL	70
6) p-Benzoquinone	54	3.279	3.279	0.798	60291	17.99	ng/uL	77
7) Aniline	93	3.755	3.760	0.914	131438	19.30	ng/uL	92
9) Phenol	94	3.691	3.696	0.898	118126	19.52	ng/uL	91
10) bis(2-Chloroethyl) ether	93	3.814	3.819	0.928	95982	19.52	ng/uL	87
11) 2-Chlorophenol	128	3.878	3.878	0.944	95318	19.29	ng/uL	93
12) n-Decane	43	3.926	3.926	0.956	143820	19.82	ng/uL	90
13) 1,3-Dichlorobenzene	146	4.049	4.049	0.986	111240	19.62	ng/uL	99
14) 1,4-Dichlorobenzene	146	4.129	4.129	1.005	114332	19.70	ng/uL	99
15) 1,2-Dichlorobenzene	146	4.290	4.295	1.044	108591	19.70	ng/uL	100
16) bis(2-Chloro-1-methyle...	45	4.397	4.397	1.070	184436	19.63	ng/uL	87
17) Benzyl alcohol	108	4.241	4.242	1.033	60592	18.87	ng/uL	95
18) o-Cresol	107	4.348	4.348	1.059	77147	19.18	ng/uL	98
19) m,p-Cresols	108	4.520	4.525	1.100	88953	18.92	ng/uL	99
20) N-Nitrosodipropylamine	70	4.536	4.541	1.104	67892	18.93	ng/uL	69
21) Hexachloroethane	117	4.669	4.669	1.137	43528	19.29	ng/uL	93
24) Nitrobenzene	77	4.734	4.739	0.857	108271	19.65	ng/uL	96
25) Isophorone	82	5.006	5.006	0.906	182683	19.25	ng/uL	99
26) 2-Nitrophenol	139	5.097	5.097	0.923	44794	18.40	ng/uL	91
27) 2,4-Dimethylphenol	122	5.135	5.135	0.929	68958	19.37	ng/uL	96
28) bis(2-Chloroethoxy)met...	93	5.252	5.258	0.951	122022	19.65	ng/uL	100
29) 2,4-Dichlorophenol	162	5.359	5.359	0.970	83041	19.39	ng/uL	98

Quantitation Report

Data Path : C:\msdchem\1\data\S080523a\
Data File : s3H0504.D
Acq On : 05 Aug 2023 11:46
Operator : LOF
Sample : |WBN230731-03.1|ICAL|1|SVM|1|M-3
Misc : |MIX[A]
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 14:28:58 2023
Quant Method : C:\msdchem\1\data\S080523a\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:28:22 2023
Response via : Initial Calibration

Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	
30) Benzoic acid	105	5.188	5.226	0.939	54672	15.66	ng/uL	96
31) 1,2,4-Trichlorobenzene	180	5.461	5.466	0.988	95262	19.72	ng/uL	96
32) alpha-Terpineol	59	5.557	5.557	1.006	102370	19.18	ng/uL	84
33) Naphthalene	128	5.546	5.552	1.004	289622	19.09	ng/uL	100
34) 4-Chloroaniline	127	5.600	5.605	1.014	117589	19.57	ng/uL	95
35) Hexachlorobutadiene	225	5.680	5.686	1.028	57618	19.57	ng/uL	99
36) 4-Chloro-3-methylphenol	107	6.097	6.103	1.104	83067	19.38	ng/uL	97
37) 2-Methylnaphthalene	142	6.269	6.269	1.135	182987	18.87	ng/uL	99
38) 1-Methylnaphthalene	142	6.365	6.365	1.152	178273	18.94	ng/uL	98
40) Hexachlorocyclopentadiene	237	6.424	6.424	0.885	62193	19.08	ng/uL	98
41) 2,3-Dichloroaniline	161	6.541	6.541	0.901	105029	19.27	ng/uL	99
42) 2,4,6-Trichlorophenol	196	6.541	6.541	0.901	63415	18.37	ng/uL	99
43) 2,4,5-Trichlorophenol	196	6.568	6.568	0.905	67596	19.40	ng/uL	98
45) 2-Chloronaphthalene	162	6.739	6.739	0.929	192037	19.07	ng/uL	97
46) o-Nitroaniline	65	6.830	6.836	0.941	53941	18.19	ng/uL	87
47) 1,4-Dinitrobenzene	168	6.964	6.964	0.959	24294	17.84	ng/uL	97
48) m-Nitroaniline	138	7.210	7.215	0.993	50613	18.97	ng/uL	98
49) Dimethylphthalate	163	7.007	7.007	0.965	219227	19.46	ng/uL	100
50) m-Dinitrobenzene	168	7.028	7.034	0.968	28722	18.29	ng/uL#	74
51) 2,6-Dinitrotoluene	165	7.060	7.060	0.973	45403	19.20	ng/uL	91
52) 2,4-Dinitrotoluene	165	7.419	7.424	1.022	58997	18.59	ng/uL	93
53) Acenaphthylene	152	7.130	7.130	0.982	303908	19.69	ng/uL	99
54) Acenaphthene	154	7.285	7.290	1.004	185312	19.00	ng/uL	99
55) 2,4-Dinitrophenol	184	7.301	7.306	1.006	24035	16.90	ng/uL	99
56) Dibenzofuran	168	7.440	7.445	1.025	274363	20.08	ng/uL	99
57) 2,3,4,6-Tetrachlorophenol	232	7.509	7.510	1.035	58814	18.66	ng/uL	98
58) Diethylphthalate	149	7.638	7.643	1.052	220826	19.12	ng/uL	99
59) 4-Nitrophenol	109	7.344	7.349	1.012	30769	18.75	ng/uL	90
60) Fluorene	166	7.745	7.750	1.067	217055	18.85	ng/uL	99
61) 4-Chlorophenylphenylether	204	7.745	7.745	1.067	108247	19.70	ng/uL	97
62) p-Nitroaniline	138	7.750	7.756	1.068	50360	18.59	ng/uL	93
65) 2-Methyl-4,6-dinitroph...	198	7.777	7.782	0.909	30480	17.37	ng/uL	85
66) Diphenylamine	169	7.841	7.847	0.916	187546	19.37	ng/uL	95
67) 1,2-Diphenylhydrazine	77	7.878	7.884	0.921	232924	19.63	ng/uL	98
68) 4-Bromophenylphenylether	248	8.167	8.173	0.954	72570	19.47	ng/uL	94
69) Hexachlorobenzene	284	8.221	8.226	0.961	97194	19.82	ng/uL	98
70) Pentachlorophenol	266	8.387	8.387	0.980	47566	17.86	ng/uL	99
71) n-Octadecane	57	8.440	8.446	0.986	185510	19.31	ng/uL	87
72) Dinoseb	211	8.536	8.536	0.997	42627	16.26	ng/uL	96
73) Phenanthrene	178	8.579	8.579	1.003	334105	19.08	ng/uL	99
74) Anthracene	178	8.622	8.622	1.008	325422	19.00	ng/uL	99
75) Carbazole	167	8.750	8.756	1.023	295973	19.30	ng/uL	98
76) Di-n-butylphthalate	149	9.028	9.029	1.055	350765	18.76	ng/uL	99
77) Fluoranthene	202	9.579	9.585	1.119	354440	18.96	ng/uL	97
78) Pyrene	202	9.777	9.777	1.143	376925	19.06	ng/uL	96
81) Butylbenzylphthalate	149	10.317	10.323	0.941	132617	17.72	ng/uL	99
82) bis(2-Ethylhexyl)phtha...	149	10.943	10.943	0.999	228238	18.53	ng/uL	100
83) Benzo(a)anthracene	228	10.949	10.949	0.999	405437	19.27	ng/uL	99
84) Chrysene	228	10.991	10.997	1.003	364298	18.94	ng/uL	97
85) Methoxychlor	227	10.847	10.847	0.990	202614	17.84	ng/uL	99
86) Methylenebis(2-chloroa...	231	10.906	10.906	0.995	65508	17.72	ng/uL	94
87) Di-n-octylphthalate	149	11.847	11.847	1.081	310311	17.50	ng/uL	90
89) Benzo(b)fluoranthene	252	12.478	12.484	0.949	384230	18.74	ng/uL	96
90) Benzo(k)fluoranthene	252	12.526	12.532	0.953	382801	19.84	ng/uL	95
91) Benzo(a)pyrene	252	13.045	13.051	0.992	328448	19.14	ng/uL	96
92) Indeno(1,2,3-cd)pyrene	276	15.276	15.286	1.162	378270	19.65	ng/uL	92
93) Dibenzo(a,h)anthracene	278	15.335	15.345	1.166	402471	19.37	ng/uL	94

Quantitation Report

Data Path : C:\msdchem\1\data\S080523a\
Data File : s3H0504.D
Acq On : 05 Aug 2023 11:46
Operator : LOF
Sample : |WBN230731-03.1|ICAL|1|SVM|1|M-3
Misc : |MIX[A]
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 14:28:58 2023
Quant Method : C:\msdchem\1\data\S080523a\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:28:22 2023
Response via : Initial Calibration

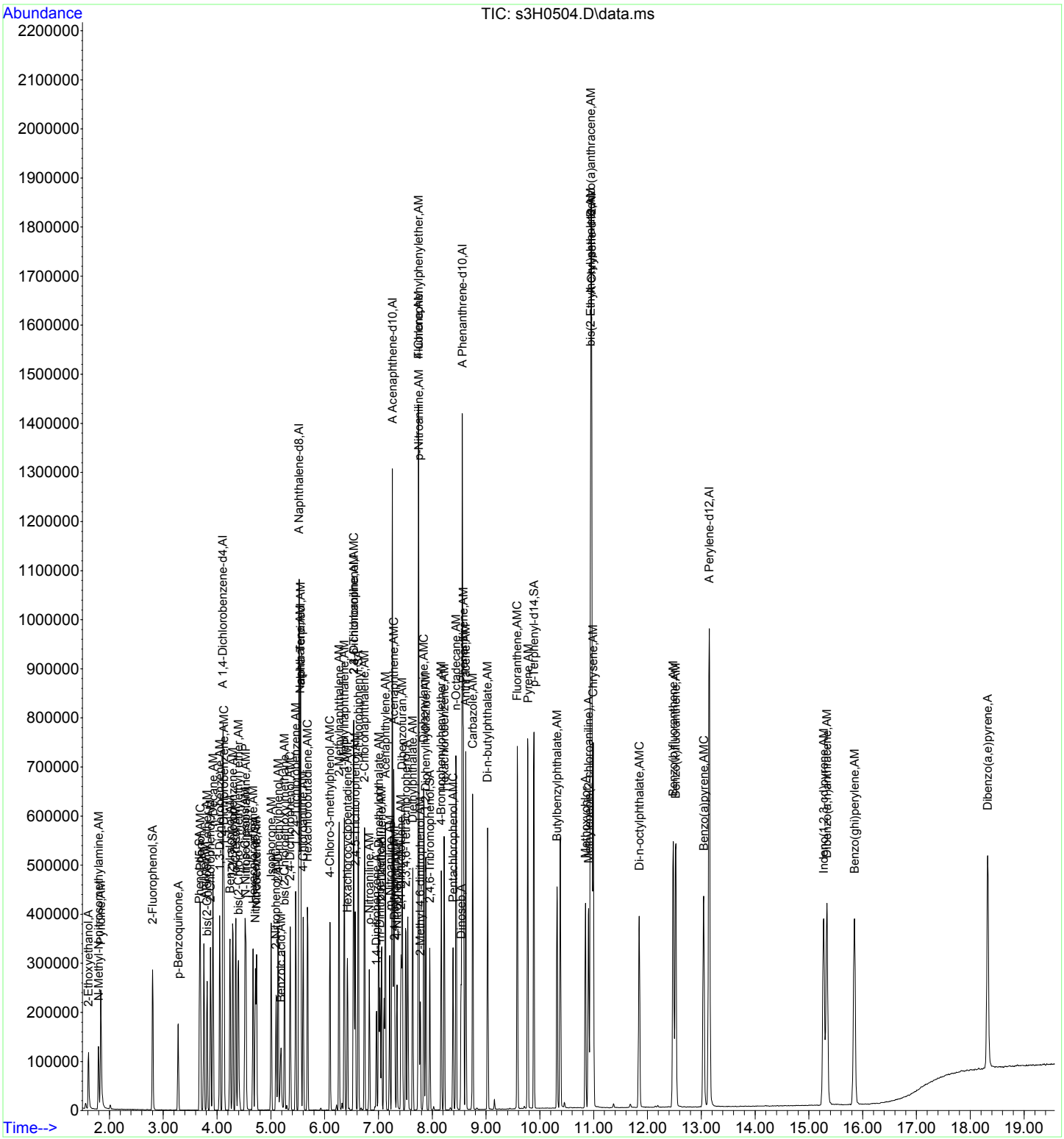
Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	
94) Benzo(ghi)perylene	276	15.848	15.864	1.205	392347	19.23	ng/uL	92
95) Dibenzo(a,e)pyrene	302	18.324	18.335	1.394	369030	19.69	ng/uL	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(A) = Over the calibration range (d) = deleted

Quantitation Report

Data Path : C:\msdchem\1\data\S080523a\
Data File : s3H0504.D
Acq On : 05 Aug 2023 11:46
Operator : LOF
Sample : |WBN230731-03.1|ICAL|1|SVM|1|M-3
Misc : |MIX[A]
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 14:28:58 2023
Quant Method : C:\msdchem\1\data\S080523a\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:28:22 2023
Response via : Initial Calibration



Quantitation Report

08/07/2023

Data Path : C:\msdchem\1\data\S080523a\
Data File : s3H0505.D
Acq On : 05 Aug 2023 12:11
Operator : LOF
Sample : |WBN230731-04.6|ICAL|1|SVM|1|M-4
Misc : |MIX[A]
ALS Vial : 5 Sample Multiplier: 1

08/07/2023

Quant Time: Aug 07 14:29:01 2023
Quant Method : C:\msdchem\1\data\S080523a\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:28:22 2023
Response via : Initial Calibration

Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	Dev(Min)
Internal Standards								
1) A 1,4-Dichlorobenzene-d4	152	4.108	4.113	1.000	155843	40.00	ng/uL	0.00
22) A Naphthalene-d8	136	5.525	5.525	1.000	639754	40.00	ng/uL	0.00
39) A Acenaphthene-d10	164	7.258	7.258	1.000	329893	40.00	ng/uL	0.00
64) A Phenanthrene-d10	188	8.558	8.558	1.000	675786	40.00	ng/uL	0.00
80) A Chrysene-d12	240	10.965	10.965	1.000	785983	40.00	ng/uL	0.00
88) A Perylene-d12	264	13.147	13.147	1.000	828318	40.00	ng/uL	0.00
96) B 1,4-Dichlorobenzene-d4	152	4.108	4.112	1.000	0m	40.00	ng/uL	0.00
112) B Naphthalene-d8	136	5.525	5.527	1.000	0m	40.00	ng/uL	0.00
120) B Acenaphthene-d10	164	7.258	7.257	1.000	0m	40.00	ng/uL	0.00
129) B Phenanthrene-d10	188	8.558	8.562	1.000	0m	40.00	ng/uL	0.00
142) B Chrysene-d12	240	10.965	10.959	1.000	0m	40.00	ng/uL	0.00
148) B Perylene-d12	264	13.147	13.148	1.000	0m	40.00	ng/uL	0.00
151) J Naphthalene-d8	136	5.525	5.525	1.000	0m	40.00	ng/uL	0.00
153) J Phenanthrene-d10	188	8.558	8.559	1.000	0m	40.00	ng/uL	0.00
156) J Chrysene-d12	240	10.965	10.959	1.000	0m	40.00	ng/uL	0.00
159) D Naphthalene-d8	136	5.525	5.525	1.000	0m	40.00	ng/uL	0.00
161) D Acenaphthene-d10	164	7.258	7.256	1.000	0m	40.00	ng/uL	0.00
164) D Phenanthrene-d10	188	8.558	8.560	1.000	0m	40.00	ng/uL	0.00
171) D Chrysene-d12	240	10.965	10.960	1.000	0m	40.00	ng/uL	0.00
173) E Naphthalene-d8	136	5.525	5.525	1.000	0m	40.00	ng/uL	0.00
175) E Perylene-d12	264	13.147	13.158	1.000	0m	40.00	ng/uL	-0.01
System Monitoring Compounds								Dev(Min)
5) 2-Fluorophenol	112	2.803	2.803	0.682	208749	39.27	ng/uL	0.00
8) Phenol-d5	99	3.680	3.680	0.896	248031	38.88	ng/uL	0.00
23) Nitrobenzene-d5	82	4.712	4.712	0.853	240700	38.94	ng/uL	0.00
44) 2-Fluorobiphenyl	172	6.627	6.627	0.913	507559	38.56	ng/uL	0.00
63) 2,4,6-Tribromophenol	330	7.953	7.959	1.096	123906	39.06	ng/uL	0.00
79) p-Terphenyl-d14	244	9.890	9.890	1.156	723862	39.26	ng/uL	0.00
Target Compounds	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	QValue
2) 2-Ethoxyethanol	59	1.610	1.610	0.392	150847	38.63	ng/uL	91
3) N-Methyl-N-nitrosometh...	74	1.797	1.797	0.437	134689	38.64	ng/uL#	67
4) Pyridine	79	1.840	1.840	0.448	234566	38.80	ng/uL	71
6) p-Benzoquinone	54	3.279	3.279	0.798	147705	38.77	ng/uL	78
7) Aniline	93	3.755	3.760	0.914	306324	39.58	ng/uL	93
9) Phenol	94	3.690	3.696	0.898	269791	39.22	ng/uL	90
10) bis(2-Chloroethyl) ether	93	3.813	3.819	0.928	219248	39.23	ng/uL	87
11) 2-Chlorophenol	128	3.878	3.878	0.944	217288	38.69	ng/uL	92
12) n-Decane	43	3.926	3.926	0.956	325034	39.41	ng/uL	89
13) 1,3-Dichlorobenzene	146	4.049	4.049	0.986	250724	38.92	ng/uL	100
14) 1,4-Dichlorobenzene	146	4.129	4.129	1.005	256412	38.88	ng/uL	99
15) 1,2-Dichlorobenzene	146	4.289	4.295	1.044	242397	38.69	ng/uL	99
16) bis(2-Chloro-1-methyle...	45	4.396	4.397	1.070	416655	39.01	ng/uL	87
17) Benzyl alcohol	108	4.241	4.242	1.033	141246	38.71	ng/uL	95
18) o-Cresol	107	4.348	4.348	1.059	178583	39.07	ng/uL	98
19) m,p-Cresols	108	4.519	4.525	1.100	210074	39.31	ng/uL	99
20) N-Nitrosodipropylamine	70	4.541	4.541	1.105	158859	38.97	ng/uL	70
21) Hexachloroethane	117	4.669	4.669	1.137	99878	38.94	ng/uL	94
24) Nitrobenzene	77	4.733	4.739	0.857	250725	39.30	ng/uL	97
25) Isophorone	82	5.006	5.006	0.906	432448	39.36	ng/uL	100
26) 2-Nitrophenol	139	5.097	5.097	0.923	108892	38.63	ng/uL	91
27) 2,4-Dimethylphenol	122	5.135	5.135	0.929	157274	38.15	ng/uL	95
28) bis(2-Chloroethoxy)met...	93	5.252	5.258	0.951	279357	38.86	ng/uL	100
29) 2,4-Dichlorophenol	162	5.359	5.359	0.970	191603	38.64	ng/uL	99

Quantitation Report

Data Path : C:\msdchem\1\data\S080523a\
Data File : s3H0505.D
Acq On : 05 Aug 2023 12:11
Operator : LOF
Sample : |WBN230731-04.6|ICAL|1|SVM|1|M-4
Misc : |MIX[A]
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 07 14:29:01 2023
Quant Method : C:\msdchem\1\data\S080523a\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:28:22 2023
Response via : Initial Calibration

Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	
30) Benzoic acid	105	5.215	5.226	0.944	149751	37.04	ng/uL	96
31) 1,2,4-Trichlorobenzene	180	5.461	5.466	0.988	217174	38.83	ng/uL	97
32) alpha-Terpineol	59	5.557	5.557	1.006	240871	38.98	ng/uL	84
33) Naphthalene	128	5.546	5.552	1.004	659616	37.55	ng/uL	100
34) 4-Chloroaniline	127	5.600	5.605	1.014	271680	39.06	ng/uL	96
35) Hexachlorobutadiene	225	5.680	5.686	1.028	130981	38.43	ng/uL	100
36) 4-Chloro-3-methylphenol	107	6.097	6.103	1.104	192387	38.77	ng/uL	99
37) 2-Methylnaphthalene	142	6.268	6.269	1.135	417320	37.17	ng/uL	99
38) 1-Methylnaphthalene	142	6.365	6.365	1.152	411953	37.79	ng/uL	99
40) Hexachlorocyclopentadiene	237	6.424	6.424	0.885	145741	38.74	ng/uL	97
41) 2,3-Dichloroaniline	161	6.541	6.541	0.901	243360	38.68	ng/uL	99
42) 2,4,6-Trichlorophenol	196	6.541	6.541	0.901	151720	38.07	ng/uL	100
43) 2,4,5-Trichlorophenol	196	6.568	6.568	0.905	161341	40.12	ng/uL	99
45) 2-Chloronaphthalene	162	6.739	6.739	0.929	437797	37.67	ng/uL	97
46) o-Nitroaniline	65	6.830	6.836	0.941	134962	39.43	ng/uL	89
47) 1,4-Dinitrobenzene	168	6.964	6.964	0.959	60447	38.45	ng/uL	97
48) m-Nitroaniline	138	7.210	7.215	0.993	120956	39.27	ng/uL	99
49) Dimethylphthalate	163	7.007	7.007	0.965	506592	38.96	ng/uL	100
50) m-Dinitrobenzene	168	7.028	7.034	0.968	71319	39.34	ng/uL#	74
51) 2,6-Dinitrotoluene	165	7.060	7.060	0.973	106544	39.04	ng/uL	92
52) 2,4-Dinitrotoluene	165	7.424	7.424	1.023	143167	39.07	ng/uL	84
53) Acenaphthylene	152	7.130	7.130	0.982	686106	38.52	ng/uL	99
54) Acenaphthene	154	7.285	7.290	1.004	427148	37.94	ng/uL	98
55) 2,4-Dinitrophenol	184	7.306	7.306	1.007	61332	37.36	ng/uL	98
56) Dibenzofuran	168	7.440	7.445	1.025	610574	38.71	ng/uL	99
57) 2,3,4,6-Tetrachlorophenol	232	7.509	7.510	1.035	140311	38.56	ng/uL	98
58) Diethylphthalate	149	7.638	7.643	1.052	516961	38.78	ng/uL	100
59) 4-Nitrophenol	109	7.344	7.349	1.012	75163	39.68	ng/uL	91
60) Fluorene	166	7.745	7.750	1.067	513977	38.67	ng/uL	99
61) 4-Chlorophenylphenylether	204	7.745	7.745	1.067	246821	38.91	ng/uL	96
62) p-Nitroaniline	138	7.755	7.756	1.069	125424	40.11	ng/uL	93
65) 2-Methyl-4,6-dinitroph...	198	7.782	7.782	0.909	78032	38.77	ng/uL	85
66) Diphenylamine	169	7.846	7.847	0.917	437577	39.39	ng/uL	94
67) 1,2-Diphenylhydrazine	77	7.884	7.884	0.921	548565	40.29	ng/uL	98
68) 4-Bromophenylphenylether	248	8.167	8.173	0.954	166837	39.02	ng/uL	93
69) Hexachlorobenzene	284	8.221	8.226	0.961	217806	38.71	ng/uL	99
70) Pentachlorophenol	266	8.387	8.387	0.980	117577	38.48	ng/uL	99
71) n-Octadecane	57	8.440	8.446	0.986	431277	39.12	ng/uL	87
72) Dinoseb	211	8.536	8.536	0.997	112940	37.55	ng/uL	99
73) Phenanthrene	178	8.579	8.579	1.003	755606	37.61	ng/uL	99
74) Anthracene	178	8.622	8.622	1.008	767940	39.08	ng/uL	99
75) Carbazole	167	8.750	8.756	1.023	687445	39.08	ng/uL	99
76) Di-n-butylphthalate	149	9.028	9.029	1.055	859893	40.09	ng/uL	99
77) Fluoranthene	202	9.585	9.585	1.120	824546	38.45	ng/uL	97
78) Pyrene	202	9.777	9.777	1.143	877087	38.67	ng/uL	96
81) Butylbenzylphthalate	149	10.323	10.323	0.941	344991	39.06	ng/uL	99
82) bis(2-Ethylhexyl)phtha...	149	10.943	10.943	0.998	588321	40.48	ng/uL	99
83) Benzo(a)anthracene	228	10.949	10.949	0.999	939923	37.85	ng/uL	99
84) Chrysene	228	10.991	10.997	1.002	852393	37.55	ng/uL	97
85) Methoxychlor	227	10.847	10.847	0.989	509830	38.03	ng/uL	99
86) Methylenebis(2-chloroa...	231	10.906	10.906	0.995	165749	37.98	ng/uL	94
87) Di-n-octylphthalate	149	11.847	11.847	1.080	840503	40.17	ng/uL	91
89) Benzo(b)fluoranthene	252	12.484	12.484	0.950	918789	38.07	ng/uL	96
90) Benzo(k)fluoranthene	252	12.526	12.532	0.953	869636	38.30	ng/uL	95
91) Benzo(a)pyrene	252	13.045	13.051	0.992	783816	38.80	ng/uL	96
92) Indeno(1,2,3-cd)pyrene	276	15.281	15.286	1.162	885727	39.09	ng/uL	92
93) Dibenzo(a,h)anthracene	278	15.340	15.345	1.167	945980	38.67	ng/uL	95

Quantitation Report

Data Path : C:\msdchem\1\data\S080523a\
Data File : s3H0505.D
Acq On : 05 Aug 2023 12:11
Operator : LOF
Sample : |WBN230731-04.6|ICAL|1|SVM|1|M-4
Misc : |MIX[A]
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 07 14:29:01 2023
Quant Method : C:\msdchem\1\data\S080523a\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:28:22 2023
Response via : Initial Calibration

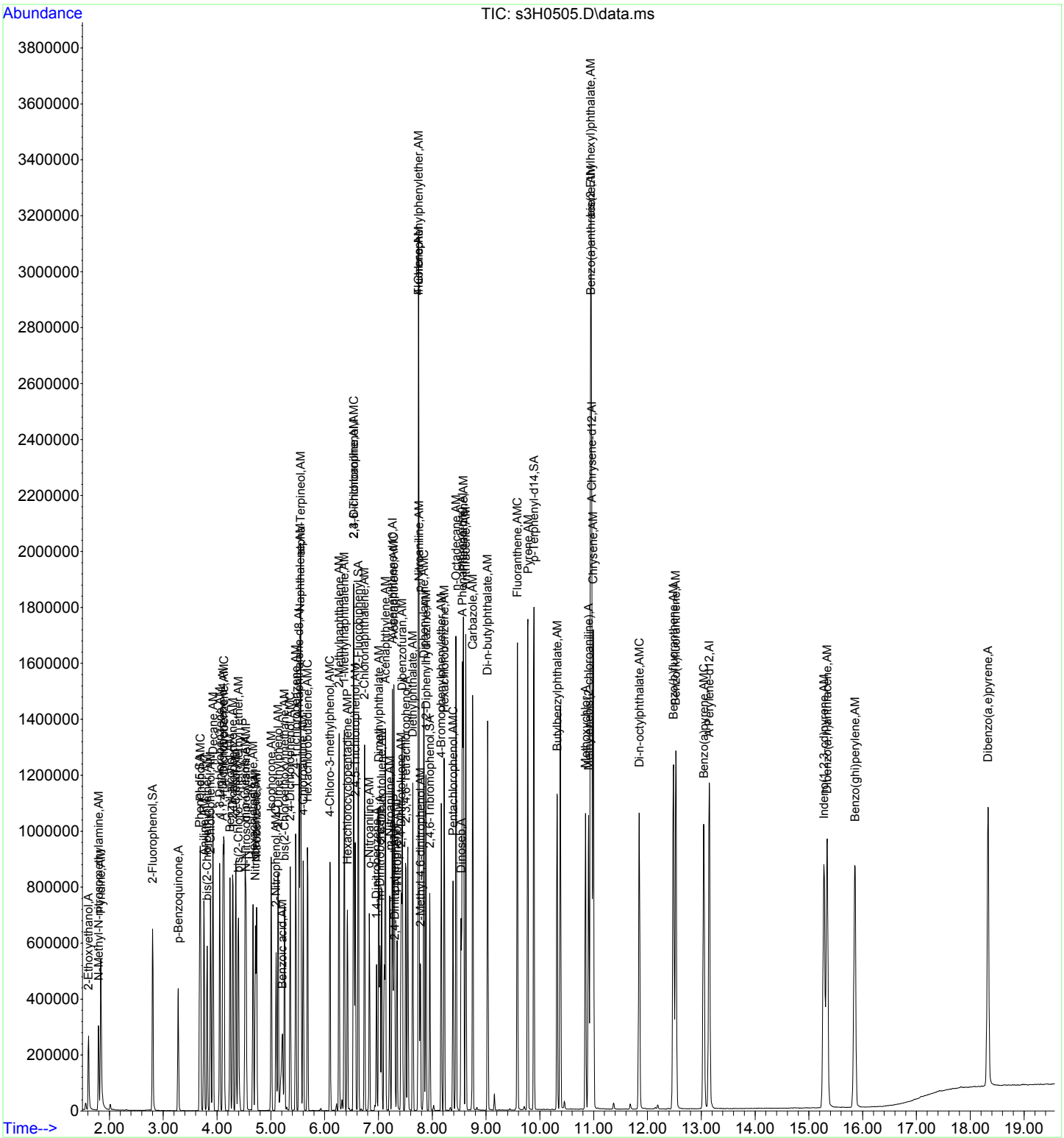
Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	
94) Benzo(ghi)perylene	276	15.859	15.864	1.206	913668	38.04	ng/uL	92
95) Dibenzo(a,e)pyrene	302	18.330	18.335	1.394	846966	38.40	ng/uL	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(A) = Over the calibration range (d) = deleted

Quantitation Report

Data Path : C:\msdchem\1\data\S080523a\
Data File : s3H0505.D
Acq On : 05 Aug 2023 12:11
Operator : LOF
Sample : |WBN230731-04.6|ICAL|1|SVM|1|M-4
Misc : |MIX[A]
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 07 14:29:01 2023
Quant Method : C:\msdchem\1\data\S080523a\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:28:22 2023
Response via : Initial Calibration



Quantitation Report

LOF 08/07/2023

Data Path : C:\msdchem\1\data\S080523a\
Data File : s3H0506.D
Acq On : 05 Aug 2023 12:35
Operator : LOF
Sample : |WBN230731-05|ICAL|1|SVM|1|M-5
Misc : |MIX[A]
ALS Vial : 6 Sample Multiplier: 1

JCB 08/07/2023

Quant Time: Aug 07 14:29:04 2023
Quant Method : C:\msdchem\1\data\S080523a\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:28:22 2023
Response via : Initial Calibration

Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	Dev(Min)
Internal Standards								
1) A 1,4-Dichlorobenzene-d4	152	4.113	4.113	1.000	158072	40.00	ng/uL	0.00
22) A Naphthalene-d8	136	5.525	5.525	1.000	650282	40.00	ng/uL	0.00
39) A Acenaphthene-d10	164	7.258	7.258	1.000	339157	40.00	ng/uL	0.00
64) A Phenanthrene-d10	188	8.558	8.558	1.000	694140	40.00	ng/uL	0.00
80) A Chrysene-d12	240	10.965	10.965	1.000	802203	40.00	ng/uL	0.00
88) A Perylene-d12	264	13.147	13.147	1.000	853641	40.00	ng/uL	0.00
96) B 1,4-Dichlorobenzene-d4	152	4.113	4.112	1.000	0m	40.00	ng/uL	0.00
112) B Naphthalene-d8	136	5.525	5.527	1.000	0m	40.00	ng/uL	0.00
120) B Acenaphthene-d10	164	7.258	7.257	1.000	0m	40.00	ng/uL	0.00
129) B Phenanthrene-d10	188	8.558	8.562	1.000	0m	40.00	ng/uL	0.00
142) B Chrysene-d12	240	10.965	10.959	1.000	0m	40.00	ng/uL	0.00
148) B Perylene-d12	264	13.147	13.148	1.000	0m	40.00	ng/uL	0.00
151) J Naphthalene-d8	136	5.525	5.525	1.000	0m	40.00	ng/uL	0.00
153) J Phenanthrene-d10	188	8.558	8.559	1.000	0m	40.00	ng/uL	0.00
156) J Chrysene-d12	240	10.965	10.959	1.000	0m	40.00	ng/uL	0.00
159) D Naphthalene-d8	136	5.525	5.525	1.000	0m	40.00	ng/uL	0.00
161) D Acenaphthene-d10	164	7.258	7.256	1.000	0m	40.00	ng/uL	0.00
164) D Phenanthrene-d10	188	8.558	8.560	1.000	0m	40.00	ng/uL	0.00
171) D Chrysene-d12	240	10.965	10.960	1.000	0m	40.00	ng/uL	0.00
173) E Naphthalene-d8	136	5.525	5.525	1.000	0m	40.00	ng/uL	0.00
175) E Perylene-d12	264	13.147	13.158	1.000	0m	40.00	ng/uL	-0.01
System Monitoring Compounds								Dev(Min)
5) 2-Fluorophenol	112	2.803	2.803	0.681	269775	50.04	ng/uL	0.00
8) Phenol-d5	99	3.680	3.680	0.895	323248	49.95	ng/uL	0.00
23) Nitrobenzene-d5	82	4.712	4.712	0.853	318009	50.61	ng/uL	0.00
44) 2-Fluorobiphenyl	172	6.627	6.627	0.913	666376	49.24	ng/uL	0.00
63) 2,4,6-Tribromophenol	330	7.959	7.959	1.097	162220	49.74	ng/uL	0.00
79) p-Terphenyl-d14	244	9.890	9.890	1.156	945591	49.93	ng/uL	0.00
Target Compounds	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	QValue
2) 2-Ethoxyethanol	59	1.610	1.610	0.391	194764	49.17	ng/uL	90
3) N-Methyl-N-nitrosometh...	74	1.797	1.797	0.437	173949	49.20	ng/uL#	67
4) Pyridine	79	1.840	1.840	0.447	307780	50.19	ng/uL	70
6) p-Benzoquinone	54	3.279	3.279	0.797	197578	51.13	ng/uL	78
7) Aniline	93	3.760	3.760	0.914	396495	50.50	ng/uL	92
9) Phenol	94	3.696	3.696	0.899	348837	50.00	ng/uL	90
10) bis(2-Chloroethyl) ether	93	3.819	3.819	0.928	284850	50.24	ng/uL	87
11) 2-Chlorophenol	128	3.878	3.878	0.943	286716	50.34	ng/uL	93
12) n-Decane	43	3.926	3.926	0.954	421119	50.34	ng/uL	90
13) 1,3-Dichlorobenzene	146	4.049	4.049	0.984	325496	49.81	ng/uL	99
14) 1,4-Dichlorobenzene	146	4.129	4.129	1.004	332992	49.78	ng/uL	99
15) 1,2-Dichlorobenzene	146	4.295	4.295	1.044	316489	49.81	ng/uL	99
16) bis(2-Chloro-1-methyle...	45	4.397	4.397	1.069	545959	50.39	ng/uL	87
17) Benzyl alcohol	108	4.242	4.242	1.031	187070	50.54	ng/uL	96
18) o-Cresol	107	4.348	4.348	1.057	234821	50.65	ng/uL	99
19) m,p-Cresols	108	4.525	4.525	1.100	273726	50.50	ng/uL	99
20) N-Nitrosodipropylamine	70	4.541	4.541	1.104	209871	50.76	ng/uL	71
21) Hexachloroethane	117	4.669	4.669	1.135	131119	50.40	ng/uL	93
24) Nitrobenzene	77	4.739	4.739	0.858	328972	50.73	ng/uL	97
25) Isophorone	82	5.006	5.006	0.906	565950	50.68	ng/uL	100
26) 2-Nitrophenol	139	5.097	5.097	0.923	143876	50.22	ng/uL	91
27) 2,4-Dimethylphenol	122	5.135	5.135	0.929	210353	50.20	ng/uL	96
28) bis(2-Chloroethoxy)met...	93	5.258	5.258	0.952	367136	50.25	ng/uL	100
29) 2,4-Dichlorophenol	162	5.359	5.359	0.970	252703	50.13	ng/uL	99

Quantitation Report

Data Path : C:\msdchem\1\data\S080523a\
Data File : s3H0506.D
Acq On : 05 Aug 2023 12:35
Operator : LOF
Sample : |WBN230731-05|ICAL|1|SVM|1|M-5
Misc : |MIX[A]
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 07 14:29:04 2023
Quant Method : C:\msdchem\1\data\S080523a\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:28:22 2023
Response via : Initial Calibration

Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	
30) Benzoic acid	105	5.226	5.226	0.946	204787	49.83	ng/uL	98
31) 1,2,4-Trichlorobenzene	180	5.466	5.466	0.989	282638	49.72	ng/uL	97
32) alpha-Terpineol	59	5.557	5.557	1.006	318045	50.64	ng/uL	84
33) Naphthalene	128	5.552	5.552	1.005	853632	47.81	ng/uL	100
34) 4-Chloroaniline	127	5.605	5.605	1.015	357990	50.63	ng/uL	96
35) Hexachlorobutadiene	225	5.686	5.686	1.029	174101	50.25	ng/uL	99
36) 4-Chloro-3-methylphenol	107	6.103	6.103	1.105	252903	50.14	ng/uL	98
37) 2-Methylnaphthalene	142	6.269	6.269	1.135	547516	47.98	ng/uL	99
38) 1-Methylnaphthalene	142	6.365	6.365	1.152	537632	48.52	ng/uL	98
40) Hexachlorocyclopentadiene	237	6.424	6.424	0.885	192193	49.69	ng/uL	97
41) 2,3-Dichloroaniline	161	6.541	6.541	0.901	321418	49.70	ng/uL	99
42) 2,4,6-Trichlorophenol	196	6.541	6.541	0.901	211587	51.65	ng/uL	99
43) 2,4,5-Trichlorophenol	196	6.568	6.568	0.905	197079	47.67	ng/uL	99
45) 2-Chloronaphthalene	162	6.739	6.739	0.929	567998	47.54	ng/uL	98
46) o-Nitroaniline	65	6.836	6.836	0.942	179105	50.89	ng/uL	89
47) 1,4-Dinitrobenzene	168	6.964	6.964	0.959	81475	50.41	ng/uL	99
48) m-Nitroaniline	138	7.215	7.215	0.994	160307	50.63	ng/uL	99
49) Dimethylphthalate	163	7.007	7.007	0.965	651725	48.75	ng/uL	100
50) m-Dinitrobenzene	168	7.034	7.034	0.969	94217	50.55	ng/uL	86
51) 2,6-Dinitrotoluene	165	7.060	7.060	0.973	141121	50.30	ng/uL	95
52) 2,4-Dinitrotoluene	165	7.424	7.424	1.023	190379	50.54	ng/uL	83
53) Acenaphthylene	152	7.130	7.130	0.982	894669	48.85	ng/uL	100
54) Acenaphthene	154	7.290	7.290	1.004	561303	48.49	ng/uL	98
55) 2,4-Dinitrophenol	184	7.306	7.306	1.007	83885	49.70	ng/uL	99
56) Dibenzofuran	168	7.445	7.445	1.026	803693	49.56	ng/uL	99
57) 2,3,4,6-Tetrachlorophenol	232	7.510	7.510	1.035	185375	49.55	ng/uL	97
58) Diethylphthalate	149	7.643	7.643	1.053	676224	49.34	ng/uL	100
59) 4-Nitrophenol	109	7.349	7.349	1.013	99033	50.85	ng/uL	91
60) Fluorene	166	7.750	7.750	1.068	669426	48.99	ng/uL	99
61) 4-Chlorophenylphenylether	204	7.745	7.745	1.067	325432	49.90	ng/uL	96
62) p-Nitroaniline	138	7.756	7.756	1.069	163525	50.86	ng/uL	94
65) 2-Methyl-4,6-dinitroph...	198	7.782	7.782	0.909	104688	50.64	ng/uL	86
66) Diphenylamine	169	7.847	7.847	0.917	567949	49.78	ng/uL	94
67) 1,2-Diphenylhydrazine	77	7.884	7.884	0.921	704551	50.38	ng/uL	98
68) 4-Bromophenylphenylether	248	8.173	8.173	0.955	217231	49.46	ng/uL	94
69) Hexachlorobenzene	284	8.226	8.226	0.961	285599	49.42	ng/uL	99
70) Pentachlorophenol	266	8.387	8.387	0.980	157987	50.34	ng/uL	100
71) n-Octadecane	57	8.446	8.446	0.987	575961	50.87	ng/uL	87
72) Dinoseb	211	8.536	8.536	0.997	157743	51.06	ng/uL	98
73) Phenanthrene	178	8.579	8.579	1.003	980623	47.52	ng/uL	99
74) Anthracene	178	8.622	8.622	1.007	996531	49.38	ng/uL	99
75) Carbazole	167	8.756	8.756	1.023	895734	49.58	ng/uL	99
76) Di-n-butylphthalate	149	9.029	9.029	1.055	1140155	51.75	ng/uL	99
77) Fluoranthene	202	9.585	9.585	1.120	1087516	49.37	ng/uL	97
78) Pyrene	202	9.777	9.777	1.142	1142505	49.04	ng/uL	96
81) Butylbenzylphthalate	149	10.323	10.323	0.941	468378	51.96	ng/uL	99
82) bis(2-Ethylhexyl)phtha...	149	10.943	10.943	0.998	787424	53.09	ng/uL	100
83) Benzo(a)anthracene	228	10.949	10.949	0.999	1240309	48.94	ng/uL	99
84) Chrysene	228	10.997	10.997	1.003	1083503	46.77	ng/uL	97
85) Methoxychlor	227	10.847	10.847	0.989	689345	50.38	ng/uL	99
86) Methylenebis(2-chloroa...	231	10.906	10.906	0.995	222592	49.98	ng/uL	95
87) Di-n-octylphthalate	149	11.847	11.847	1.080	1157911	54.23	ng/uL	91
89) Benzo(b)fluoranthene	252	12.484	12.484	0.950	1191490	47.91	ng/uL	97
90) Benzo(k)fluoranthene	252	12.532	12.532	0.953	1162413	49.67	ng/uL	95
91) Benzo(a)pyrene	252	13.051	13.051	0.993	1043316	50.11	ng/uL	96
92) Indeno(1,2,3-cd)pyrene	276	15.286	15.286	1.163	1134899	48.60	ng/uL	93
93) Dibenzo(a,h)anthracene	278	15.345	15.345	1.167	1235489	49.01	ng/uL	95

Quantitation Report

Data Path : C:\msdchem\1\data\S080523a\
Data File : s3H0506.D
Acq On : 05 Aug 2023 12:35
Operator : LOF
Sample : |WBN230731-05|ICAL|1|SVM|1|M-5
Misc : |MIX[A]
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 07 14:29:04 2023
Quant Method : C:\msdchem\1\data\S080523a\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:28:22 2023
Response via : Initial Calibration

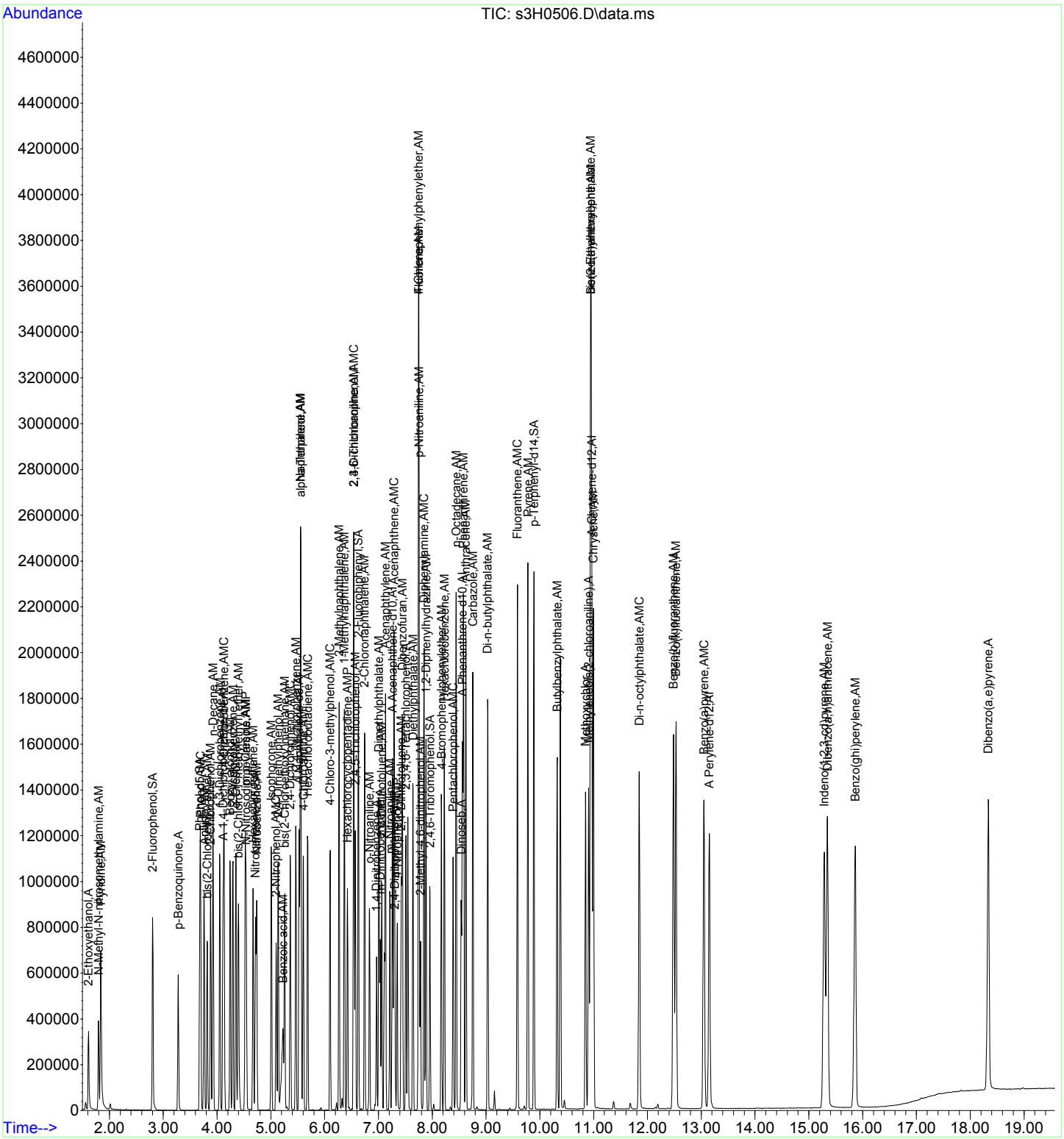
Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	
94) Benzo(ghi)perylene	276	15.864	15.864	1.207	1192691	48.19	ng/uL	92
95) Dibenzo(a,e)pyrene	302	18.335	18.335	1.395	1098301	48.32	ng/uL	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(A) = Over the calibration range (d) = deleted

Quantitation Report

Data Path : C:\msdchem\1\data\S080523a\
Data File : s3H0506.D
Acq On : 05 Aug 2023 12:35
Operator : LOF
Sample : |WBN230731-05|ICAL|1|SVM|1|M-5
Misc : |MIX[A]
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 07 14:29:04 2023
Quant Method : C:\msdchem\1\data\S080523a\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:28:22 2023
Response via : Initial Calibration



Quantitation Report

08/07/2023

Data Path : C:\msdchem\1\data\S080523a\
Data File : s3H0507.D
Acq On : 05 Aug 2023 12:59
Operator : LOF
Sample : |WBN230731-06|ICAL|1|SVM|1|M-6
Misc : |MIX[A]
ALS Vial : 7 Sample Multiplier: 1

08/07/2023

Quant Time: Aug 07 14:29:07 2023
Quant Method : C:\msdchem\1\data\S080523a\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:28:22 2023
Response via : Initial Calibration

Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	Dev(Min)
Internal Standards								
1) A 1,4-Dichlorobenzene-d4	152	4.113	4.113	1.000	163963	40.00	ng/uL	0.00
22) A Naphthalene-d8	136	5.530	5.525	1.000	668981	40.00	ng/uL	0.00
39) A Acenaphthene-d10	164	7.258	7.258	1.000	349501	40.00	ng/uL	0.00
64) A Phenanthrene-d10	188	8.558	8.558	1.000	710443	40.00	ng/uL	0.00
80) A Chrysene-d12	240	10.965	10.965	1.000	820233	40.00	ng/uL	0.00
88) A Perylene-d12	264	13.152	13.147	1.000	882242	40.00	ng/uL	0.00
96) B 1,4-Dichlorobenzene-d4	152	4.113	4.112	1.000	0m	40.00	ng/uL	0.00
112) B Naphthalene-d8	136	5.530	5.527	1.000	0m	40.00	ng/uL	0.00
120) B Acenaphthene-d10	164	7.258	7.257	1.000	0m	40.00	ng/uL	0.00
129) B Phenanthrene-d10	188	8.558	8.562	1.000	0m	40.00	ng/uL	0.00
142) B Chrysene-d12	240	10.965	10.959	1.000	0m	40.00	ng/uL	0.00
148) B Perylene-d12	264	13.152	13.148	1.000	0m	40.00	ng/uL	0.00
151) J Naphthalene-d8	136	5.530	5.525	1.000	0m	40.00	ng/uL	0.00
153) J Phenanthrene-d10	188	8.558	8.559	1.000	0m	40.00	ng/uL	0.00
156) J Chrysene-d12	240	10.965	10.959	1.000	0m	40.00	ng/uL	0.00
159) D Naphthalene-d8	136	5.530	5.525	1.000	0m	40.00	ng/uL	0.00
161) D Acenaphthene-d10	164	7.258	7.256	1.000	0m	40.00	ng/uL	0.00
164) D Phenanthrene-d10	188	8.558	8.560	1.000	0m	40.00	ng/uL	0.00
171) D Chrysene-d12	240	10.965	10.960	1.000	0m	40.00	ng/uL	0.00
173) E Naphthalene-d8	136	5.530	5.525	1.000	0m	40.00	ng/uL	0.00
175) E Perylene-d12	264	13.152	13.158	1.000	0m	40.00	ng/uL	0.00
System Monitoring Compounds								Dev(Min)
5) 2-Fluorophenol	112	2.803	2.803	0.681	438416	78.39	ng/uL	0.00
8) Phenol-d5	99	3.680	3.680	0.895	534232	79.59	ng/uL	0.00
23) Nitrobenzene-d5	82	4.717	4.712	0.853	520677	80.54	ng/uL	0.00
44) 2-Fluorobiphenyl	172	6.627	6.627	0.913	1091151	78.24	ng/uL	0.00
63) 2,4,6-Tribromophenol	330	7.959	7.959	1.097	271532	80.80	ng/uL	0.00
79) p-Terphenyl-d14	244	9.889	9.890	1.156	1542978	79.60	ng/uL	0.00
Target Compounds	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	QValue
2) 2-Ethoxyethanol	59	1.610	1.610	0.391	312750	76.12	ng/uL	91
3) N-Methyl-N-nitrosometh...	74	1.797	1.797	0.437	283405	77.27	ng/uL	68
4) Pyridine	79	1.840	1.840	0.447	500801	78.74	ng/uL	70
6) p-Benzoquinone	54	3.279	3.279	0.797	333478	83.20	ng/uL	77
7) Aniline	93	3.760	3.760	0.914	641884	78.82	ng/uL	93
9) Phenol	94	3.696	3.696	0.899	570480	78.82	ng/uL	91
10) bis(2-Chloroethyl) ether	93	3.819	3.819	0.928	459138	78.08	ng/uL	88
11) 2-Chlorophenol	128	3.883	3.878	0.944	466895	79.03	ng/uL	93
12) n-Decane	43	3.926	3.926	0.954	673135	77.58	ng/uL	91
13) 1,3-Dichlorobenzene	146	4.054	4.049	0.986	532370	78.54	ng/uL	99
14) 1,4-Dichlorobenzene	146	4.129	4.129	1.004	541965	78.10	ng/uL	99
15) 1,2-Dichlorobenzene	146	4.295	4.295	1.044	515479	78.21	ng/uL	99
16) bis(2-Chloro-1-methyle...	45	4.396	4.397	1.069	878707	78.19	ng/uL	87
17) Benzyl alcohol	108	4.247	4.242	1.033	310392	80.85	ng/uL	97
18) o-Cresol	107	4.354	4.348	1.059	379905	79.00	ng/uL	99
19) m,p-Cresols	108	4.525	4.525	1.100	450698	80.16	ng/uL	99
20) N-Nitrosodipropylamine	70	4.546	4.541	1.105	344971	80.43	ng/uL	72
21) Hexachloroethane	117	4.669	4.669	1.135	214627	79.53	ng/uL	93
24) Nitrobenzene	77	4.739	4.739	0.857	526599	78.93	ng/uL	98
25) Isophorone	82	5.012	5.006	0.906	926278	80.62	ng/uL	99
26) 2-Nitrophenol	139	5.102	5.097	0.923	243928	82.76	ng/uL	93
27) 2,4-Dimethylphenol	122	5.140	5.135	0.929	341837	79.30	ng/uL	96
28) bis(2-Chloroethoxy)met...	93	5.258	5.258	0.951	596392	79.34	ng/uL	98
29) 2,4-Dichlorophenol	162	5.365	5.359	0.970	413880	79.81	ng/uL	99

Quantitation Report

Data Path : C:\msdchem\1\data\S080523a\
Data File : s3H0507.D
Acq On : 05 Aug 2023 12:59
Operator : LOF
Sample : |WBN230731-06|ICAL|1|SVM|1|M-6
Misc : |MIX[A]
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 07 14:29:07 2023
Quant Method : C:\msdchem\1\data\S080523a\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:28:22 2023
Response via : Initial Calibration

Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	
30) Benzoic acid	105	5.247	5.226	0.949	363143	85.89	ng/uL	99
31) 1,2,4-Trichlorobenzene	180	5.466	5.466	0.988	458300	78.37	ng/uL	97
32) alpha-Terpineol	59	5.562	5.557	1.006	519249	80.36	ng/uL	85
33) Naphthalene	128	5.552	5.552	1.004	1392213	75.79	ng/uL	100
34) 4-Chloroaniline	127	5.605	5.605	1.014	581439	79.94	ng/uL	96
35) Hexachlorobutadiene	225	5.685	5.686	1.028	280954	78.83	ng/uL	100
36) 4-Chloro-3-methylphenol	107	6.103	6.103	1.103	416000	80.18	ng/uL	99
37) 2-Methylnaphthalene	142	6.268	6.269	1.133	904338	77.03	ng/uL	99
38) 1-Methylnaphthalene	142	6.370	6.365	1.152	876481	76.89	ng/uL	98
40) Hexachlorocyclopentadiene	237	6.424	6.424	0.885	319696	80.22	ng/uL	98
41) 2,3-Dichloroaniline	161	6.541	6.541	0.901	528432	79.29	ng/uL	99
42) 2,4,6-Trichlorophenol	196	6.541	6.541	0.901	345748	81.90	ng/uL	100
43) 2,4,5-Trichlorophenol	196	6.573	6.568	0.906	332867	78.13	ng/uL	100
45) 2-Chloronaphthalene	162	6.744	6.739	0.929	925480	75.17	ng/uL	98
46) o-Nitroaniline	65	6.835	6.836	0.942	300703	82.92	ng/uL	90
47) 1,4-Dinitrobenzene	168	6.969	6.964	0.960	140763	84.51	ng/uL	97
48) m-Nitroaniline	138	7.215	7.215	0.994	263936	80.89	ng/uL	100
49) Dimethylphthalate	163	7.012	7.007	0.966	1070885	77.74	ng/uL	100
50) m-Dinitrobenzene	168	7.033	7.034	0.969	160117	83.36	ng/uL#	75
51) 2,6-Dinitrotoluene	165	7.065	7.060	0.973	229662	79.43	ng/uL	93
52) 2,4-Dinitrotoluene	165	7.429	7.424	1.024	319051	82.19	ng/uL	84
53) Acenaphthylene	152	7.130	7.130	0.982	1459630	77.34	ng/uL	100
54) Acenaphthene	154	7.290	7.290	1.004	920175	77.14	ng/uL	97
55) 2,4-Dinitrophenol	184	7.306	7.306	1.007	145646	83.73	ng/uL	97
56) Dibenzofuran	168	7.445	7.445	1.026	1287435	77.04	ng/uL	99
57) 2,3,4,6-Tetrachlorophenol	232	7.509	7.510	1.035	314976	81.70	ng/uL	97
58) Diethylphthalate	149	7.643	7.643	1.053	1105655	78.28	ng/uL	100
59) 4-Nitrophenol	109	7.349	7.349	1.013	165841	82.63	ng/uL	92
60) Fluorene	166	7.750	7.750	1.068	1094512	77.73	ng/uL	98
61) 4-Chlorophenylphenylether	204	7.745	7.745	1.067	524777	78.09	ng/uL	97
62) p-Nitroaniline	138	7.761	7.756	1.069	272047	82.11	ng/uL	93
65) 2-Methyl-4,6-dinitroph...	198	7.782	7.782	0.909	180323	85.22	ng/uL	88
66) Diphenylamine	169	7.846	7.847	0.917	925666	79.27	ng/uL	94
67) 1,2-Diphenylhydrazine	77	7.884	7.884	0.921	1125313	78.63	ng/uL	98
68) 4-Bromophenylphenylether	248	8.173	8.173	0.955	356240	79.25	ng/uL	94
69) Hexachlorobenzene	284	8.226	8.226	0.961	466160	78.81	ng/uL	100
70) Pentachlorophenol	266	8.387	8.387	0.980	269938	84.03	ng/uL	100
71) n-Octadecane	57	8.445	8.446	0.987	921271	79.50	ng/uL	88
72) Dinoseb	211	8.536	8.536	0.997	280175	88.60	ng/uL	97
73) Phenanthrene	178	8.579	8.579	1.002	1596355	75.58	ng/uL	100
74) Anthracene	178	8.627	8.622	1.008	1630687	78.94	ng/uL	99
75) Carbazole	167	8.756	8.756	1.023	1446208	78.21	ng/uL	100
76) Di-n-butylphthalate	149	9.034	9.029	1.056	1880689	83.40	ng/uL	100
77) Fluoranthene	202	9.585	9.585	1.120	1775792	78.77	ng/uL	98
78) Pyrene	202	9.777	9.777	1.143	1869058	78.38	ng/uL	97
81) Butylbenzylphthalate	149	10.323	10.323	0.941	801788	86.99	ng/uL	98
82) bis(2-Ethylhexyl)phtha...	149	10.943	10.943	0.998	1313508	86.61	ng/uL	100
83) Benzo(a)anthracene	228	10.949	10.949	0.999	1998452	77.11	ng/uL	99
84) Chrysene	228	10.997	10.997	1.003	1784503	75.33	ng/uL	97
85) Methoxychlor	227	10.852	10.847	0.990	1182633	84.53	ng/uL	99
86) Methylenebis(2-chloroa...	231	10.911	10.906	0.995	379849	83.41	ng/uL	95
87) Di-n-octylphthalate	149	11.847	11.847	1.080	2009903	92.06	ng/uL	92
89) Benzo(b)fluoranthene	252	12.489	12.484	0.950	2004751	78.00	ng/uL	96
90) Benzo(k)fluoranthene	252	12.537	12.532	0.953	1902202	78.65	ng/uL	96
91) Benzo(a)pyrene	252	13.056	13.051	0.993	1748250	81.24	ng/uL	96
92) Indeno(1,2,3-cd)pyrene	276	15.297	15.286	1.163	1884244	78.08	ng/uL	93
93) Dibenzo(a,h)anthracene	278	15.350	15.345	1.167	2069900	79.44	ng/uL	95

Quantitation Report

Data Path : C:\msdchem\1\data\S080523a\
Data File : s3H0507.D
Acq On : 05 Aug 2023 12:59
Operator : LOF
Sample : |WBN230731-06|ICAL|1|SVM|1|M-6
Misc : |MIX[A]
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 07 14:29:07 2023
Quant Method : C:\msdchem\1\data\S080523a\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:28:22 2023
Response via : Initial Calibration

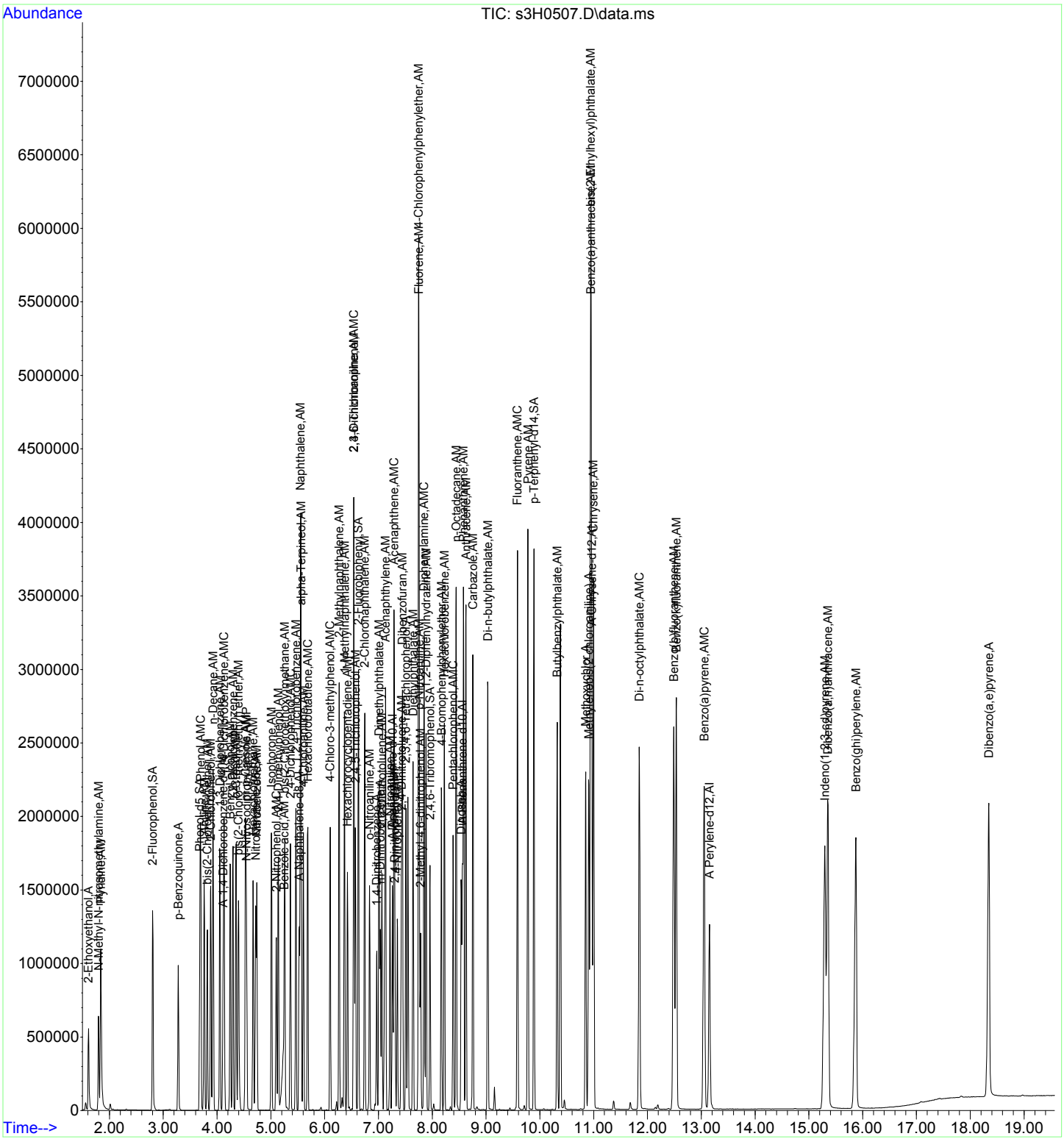
Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	
94) Benzo(ghi)perylene	276	15.875	15.864	1.207	2016256	78.82	ng/uL	92
95) Dibenzo(a,e)pyrene	302	18.346	18.335	1.395	1851905	78.83	ng/uL	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(A) = Over the calibration range (d) = deleted

Quantitation Report

Data Path : C:\msdchem\1\data\S080523a\
Data File : s3H0507.D
Acq On : 05 Aug 2023 12:59
Operator : LOF
Sample : |WBN230731-06|ICAL|1|SVM|1|M-6
Misc : |MIX[A]
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 07 14:29:07 2023
Quant Method : C:\msdchem\1\data\S080523a\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:28:22 2023
Response via : Initial Calibration



Quantitation Report

08/07/2023

Data Path : C:\msdchem\1\data\S080523a\
Data File : s3H0508.D
Acq On : 05 Aug 2023 13:24
Operator : LOF
Sample : |WBN230731-07|ICAL|1|SVM|1|M-7
Misc : |MIX[A]
ALS Vial : 8 Sample Multiplier: 1

08/07/2023

Quant Time: Aug 07 14:29:10 2023
Quant Method : C:\msdchem\1\data\S080523a\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:28:22 2023
Response via : Initial Calibration

Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	Dev(Min)
Internal Standards								
1) A 1,4-Dichlorobenzene-d4	152	4.113	4.113	1.000	163633	40.00	ng/uL	0.00
22) A Naphthalene-d8	136	5.531	5.525	1.000	675008	40.00	ng/uL	0.00
39) A Acenaphthene-d10	164	7.258	7.258	1.000	350408	40.00	ng/uL	0.00
64) A Phenanthrene-d10	188	8.563	8.558	1.000	712445	40.00	ng/uL	0.00
80) A Chrysene-d12	240	10.965	10.965	1.000	816409	40.00	ng/uL	0.00
88) A Perylene-d12	264	13.152	13.147	1.000	891475	40.00	ng/uL	0.00
96) B 1,4-Dichlorobenzene-d4	152	4.113	4.112	1.000	0m	40.00	ng/uL	0.00
112) B Naphthalene-d8	136	5.531	5.527	1.000	0m	40.00	ng/uL	0.00
120) B Acenaphthene-d10	164	7.258	7.257	1.000	0m	40.00	ng/uL	0.00
129) B Phenanthrene-d10	188	8.563	8.562	1.000	0m	40.00	ng/uL	0.00
142) B Chrysene-d12	240	10.965	10.959	1.000	0m	40.00	ng/uL	0.00
148) B Perylene-d12	264	13.152	13.148	1.000	0m	40.00	ng/uL	0.00
151) J Naphthalene-d8	136	5.531	5.525	1.000	0m	40.00	ng/uL	0.00
153) J Phenanthrene-d10	188	8.563	8.559	1.000	0m	40.00	ng/uL	0.00
156) J Chrysene-d12	240	10.965	10.959	1.000	0m	40.00	ng/uL	0.00
159) D Naphthalene-d8	136	5.531	5.525	1.000	0m	40.00	ng/uL	0.00
161) D Acenaphthene-d10	164	7.258	7.256	1.000	0m	40.00	ng/uL	0.00
164) D Phenanthrene-d10	188	8.563	8.560	1.000	0m	40.00	ng/uL	0.00
171) D Chrysene-d12	240	10.965	10.960	1.000	0m	40.00	ng/uL	0.00
173) E Naphthalene-d8	136	5.531	5.525	1.000	0m	40.00	ng/uL	0.00
175) E Perylene-d12	264	13.152	13.158	1.000	0m	40.00	ng/uL	0.00
System Monitoring Compounds								Dev(Min)
5) 2-Fluorophenol	112	2.803	2.803	0.681	549007	98.37	ng/uL	0.00
8) Phenol-d5	99	3.685	3.680	0.896	663581	99.06	ng/uL	0.00
23) Nitrobenzene-d5	82	4.718	4.712	0.853	642591	98.52	ng/uL	0.00
44) 2-Fluorobiphenyl	172	6.627	6.627	0.913	1355090	96.92	ng/uL	0.00
63) 2,4,6-Tribromophenol	330	7.959	7.959	1.097	342545	101.66	ng/uL	0.00
79) p-Terphenyl-d14	244	9.890	9.890	1.155	1916092	98.57	ng/uL	0.00
Target Compounds	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	QValue
2) 2-Ethoxyethanol	59	1.610	1.610	0.391	390464	95.22	ng/uL	91
3) N-Methyl-N-nitrosometh...	74	1.797	1.797	0.437	352960	96.43	ng/uL	70
4) Pyridine	79	1.835	1.840	0.446	619206	97.55	ng/uL	70
6) p-Benzoquinone	54	3.279	3.279	0.797	422504	105.63	ng/uL	77
7) Aniline	93	3.760	3.760	0.914	797175	98.09	ng/uL	93
9) Phenol	94	3.696	3.696	0.899	711748	98.54	ng/uL	92
10) bis(2-Chloroethyl) ether	93	3.819	3.819	0.928	567604	96.72	ng/uL	87
11) 2-Chlorophenol	128	3.883	3.878	0.944	584092	99.06	ng/uL	94
12) n-Decane	43	3.926	3.926	0.954	824143	95.17	ng/uL	91
13) 1,3-Dichlorobenzene	146	4.054	4.049	0.986	652327	96.43	ng/uL	100
14) 1,4-Dichlorobenzene	146	4.129	4.129	1.004	674869	97.45	ng/uL	98
15) 1,2-Dichlorobenzene	146	4.295	4.295	1.044	639945	97.29	ng/uL	100
16) bis(2-Chloro-1-methyle...	45	4.397	4.397	1.069	1087730	96.99	ng/uL	87
17) Benzyl alcohol	108	4.247	4.242	1.033	389242	101.59	ng/uL	98
18) o-Cresol	107	4.354	4.348	1.059	472843	98.53	ng/uL	99
19) m,p-Cresols	108	4.530	4.525	1.101	560923	99.96	ng/uL	99
20) N-Nitrosodipropylamine	70	4.546	4.541	1.105	433896	101.37	ng/uL	74
21) Hexachloroethane	117	4.669	4.669	1.135	264514	98.22	ng/uL	92
24) Nitrobenzene	77	4.739	4.739	0.857	655454	97.37	ng/uL	99
25) Isophorone	82	5.012	5.006	0.906	1160483	100.11	ng/uL	99
26) 2-Nitrophenol	139	5.103	5.097	0.923	308509	103.74	ng/uL	93
27) 2,4-Dimethylphenol	122	5.140	5.135	0.929	430420	98.96	ng/uL	97
28) bis(2-Chloroethoxy)met...	93	5.258	5.258	0.951	735432	96.96	ng/uL	97
29) 2,4-Dichlorophenol	162	5.365	5.359	0.970	520743	99.52	ng/uL	99

Data Path : C:\msdchem\1\data\S080523a\
Data File : s3H0508.D
Acq On : 05 Aug 2023 13:24
Operator : LOF
Sample : |WBN230731-07|ICAL|1|SVM|1|M-7
Misc : |MIX[A]
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 07 14:29:10 2023
Quant Method : C:\msdchem\1\data\S080523a\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:28:22 2023
Response via : Initial Calibration

	Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units		
30)	Benzoic acid	105	5.258	5.226	0.951	472016	110.64	ng/uL	98	
31)	1,2,4-Trichlorobenzene	180	5.466	5.466	0.988	567069	96.11	ng/uL	96	
32)	alpha-Terpineol	59	5.563	5.557	1.006	644199	98.81	ng/uL	85	
33)	Naphthalene	128	5.552	5.552	1.004	1703987	91.93	ng/uL	99	
34)	4-Chloroaniline	127	5.605	5.605	1.014	715420	97.48	ng/uL	96	
35)	Hexachlorobutadiene	225	5.686	5.686	1.028	348976	97.04	ng/uL	100	
36)	4-Chloro-3-methylphenol	107	6.103	6.103	1.103	522243	99.76	ng/uL	99	
37)	2-Methylnaphthalene	142	6.269	6.269	1.133	1129533	95.36	ng/uL	98	
38)	1-Methylnaphthalene	142	6.370	6.365	1.152	1095924	95.28	ng/uL	99	
40)	Hexachlorocyclopentadiene	237	6.424	6.424	0.885	403065	100.87	ng/uL	98	
41)	2,3-Dichloroaniline	161	6.541	6.541	0.901	661394	98.98	ng/uL	99	
42)	2,4,6-Trichlorophenol	196	6.541	6.541	0.901	435229	102.83	ng/uL	100	
43)	2,4,5-Trichlorophenol	196	6.573	6.568	0.906	423650	99.19	ng/uL	99	
45)	2-Chloronaphthalene	162	6.745	6.739	0.929	1158160	93.82	ng/uL	98	
46)	o-Nitroaniline	65	6.836	6.836	0.942	378801	104.18	ng/uL	91	
47)	1,4-Dinitrobenzene	168	6.969	6.964	0.960	177656	106.38	ng/uL	96	
48)	m-Nitroaniline	138	7.215	7.215	0.994	336501	102.86	ng/uL	99	
49)	Dimethylphthalate	163	7.012	7.007	0.966	1335445	96.69	ng/uL	100	
50)	m-Dinitrobenzene	168	7.039	7.034	0.970	202126	104.96	ng/uL	98	
51)	2,6-Dinitrotoluene	165	7.066	7.060	0.973	294544	101.61	ng/uL	96	
52)	2,4-Dinitrotoluene	165	7.429	7.424	1.024	401914	103.27	ng/uL	83	
53)	Acenaphthylene	152	7.135	7.130	0.983	1832729	96.86	ng/uL	100	
54)	Acenaphthene	154	7.290	7.290	1.004	1141449	95.45	ng/uL	97	
55)	2,4-Dinitrophenol	184	7.312	7.306	1.007	187325	107.41	ng/uL	97	
56)	Dibenzofuran	168	7.445	7.445	1.026	1608358	96.00	ng/uL	99	
57)	2,3,4,6-Tetrachlorophenol	232	7.509	7.510	1.035	397811	102.92	ng/uL	97	
58)	Diethylphthalate	149	7.643	7.643	1.053	1375707	97.15	ng/uL	99	
59)	4-Nitrophenol	109	7.354	7.349	1.013	204280	101.52	ng/uL	93	
60)	Fluorene	166	7.750	7.750	1.068	1350537	95.67	ng/uL	99	
61)	4-Chlorophenylphenylether	204	7.745	7.745	1.067	656235	97.40	ng/uL	97	
62)	p-Nitroaniline	138	7.761	7.756	1.069	343522	103.42	ng/uL	94	
65)	2-Methyl-4,6-dinitroph...	198	7.788	7.782	0.909	228661	107.77	ng/uL	88	
66)	Diphenylamine	169	7.852	7.847	0.917	1157759	98.87	ng/uL	94	
67)	1,2-Diphenylhydrazine	77	7.884	7.884	0.921	1401263	97.63	ng/uL	98	
68)	4-Bromophenylphenylether	248	8.173	8.173	0.954	445802	98.89	ng/uL	93	
69)	Hexachlorobenzene	284	8.226	8.226	0.961	584404	98.53	ng/uL	100	
70)	Pentachlorophenol	266	8.387	8.387	0.979	343079	106.50	ng/uL	99	
71)	n-Octadecane	57	8.445	8.446	0.986	1156291	99.49	ng/uL	89	
72)	Dinoseb	211	8.542	8.536	0.998	361478	113.99	ng/uL	97	
73)	Phenanthrene	178	8.585	8.579	1.002	1979730	93.46	ng/uL	100	
74)	Anthracene	178	8.627	8.622	1.007	1996736	96.39	ng/uL	100	
75)	Carbazole	167	8.756	8.756	1.022	1793100	96.69	ng/uL	100	
76)	Di-n-butylphthalate	149	9.034	9.029	1.055	2345930	103.74	ng/uL	99	
77)	Fluoranthene	202	9.585	9.585	1.119	2219783	98.18	ng/uL	98	
78)	Pyrene	202	9.777	9.777	1.142	2322062	97.10	ng/uL	98	
81)	Butylbenzylphthalate	149	10.323	10.323	0.941	1019035	111.08	ng/uL	98	
82)	bis(2-Ethylhexyl)phtha...	149	10.943	10.943	0.998	1650936	109.37	ng/uL	99	
83)	Benzo(a)anthracene	228	10.954	10.949	0.999	2461992	95.45	ng/uL	99	
84)	Chrysene	228	11.002	10.997	1.003	2220579	94.18	ng/uL	97	
85)	Methoxychlor	227	10.852	10.847	0.990	1501596	107.83	ng/uL	98	
86)	Methylenebis(2-chloroa...	231	10.911	10.906	0.995	483678	106.71	ng/uL	95	
87)	Di-n-octylphthalate	149	11.847	11.847	1.080	2581936	118.81	ng/uL	92	A
89)	Benzo(b)fluoranthene	252	12.489	12.484	0.950	2570204	98.96	ng/uL	97	
90)	Benzo(k)fluoranthene	252	12.537	12.532	0.953	2316224	94.78	ng/uL	97	
91)	Benzo(a)pyrene	252	13.056	13.051	0.993	2197404	101.06	ng/uL	96	
92)	Indeno(1,2,3-cd)pyrene	276	15.302	15.286	1.163	2293274	94.05	ng/uL	93	
93)	Dibenzo(a,h)anthracene	278	15.361	15.345	1.168	2600246	98.76	ng/uL	95	

Quantitation Report

Data Path : C:\msdchem\1\data\S080523a\
Data File : s3H0508.D
Acq On : 05 Aug 2023 13:24
Operator : LOF
Sample : |WBN230731-07|ICAL|1|SVM|1|M-7
Misc : |MIX[A]
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 07 14:29:10 2023
Quant Method : C:\msdchem\1\data\S080523a\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:28:22 2023
Response via : Initial Calibration

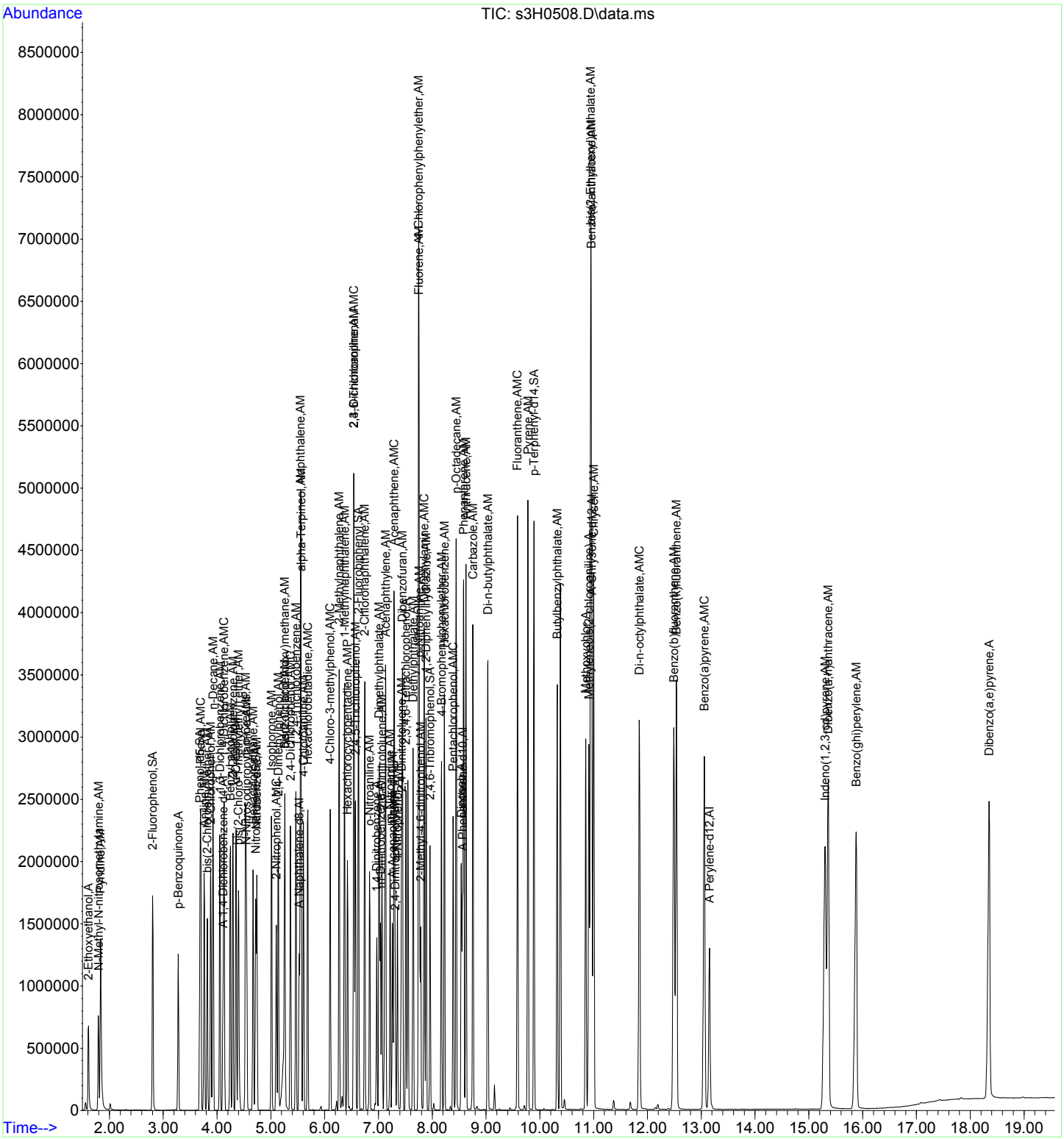
Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	
94) Benzo(ghi)perylene	276	15.880	15.864	1.207	2502186	96.80	ng/uL	93
95) Dibenzo(a,e)pyrene	302	18.351	18.335	1.395	2311508	97.37	ng/uL	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(A) = Over the calibration range (d) = deleted

Quantitation Report

Data Path : C:\msdchem\1\data\S080523a\
Data File : s3H0508.D
Acq On : 05 Aug 2023 13:24
Operator : LOF
Sample : |WBN230731-07|ICAL|1|SVM|1|M-7
Misc : |MIX[A]
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 07 14:29:10 2023
Quant Method : C:\msdchem\1\data\S080523a\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:28:22 2023
Response via : Initial Calibration



Quantitation Report

08/07/2023

Data Path : C:\msdchem\1\data\S080523a\
Data File : s3H0509.D
Acq On : 05 Aug 2023 13:48
Operator : LOF
Sample : |WBN230731-08|ICAL|1|SVM|1|M-8
Misc : |MIX[A]
ALS Vial : 9 Sample Multiplier: 1

08/07/2023

Quant Time: Aug 07 14:29:13 2023
Quant Method : C:\msdchem\1\data\S080523a\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:28:22 2023
Response via : Initial Calibration

Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units		
Internal Standards									Dev(Min)
1) A 1,4-Dichlorobenzene-d4	152	4.113	4.113	1.000	161628	40.00	ng/uL	#	0.00
22) A Naphthalene-d8	136	5.531	5.525	1.000	661503	40.00	ng/uL		0.00
39) A Acenaphthene-d10	164	7.258	7.258	1.000	340667	40.00	ng/uL		0.00
64) A Phenanthrene-d10	188	8.563	8.558	1.000	701226	40.00	ng/uL		0.00
80) A Chrysene-d12	240	10.970	10.965	1.000	803315	40.00	ng/uL		0.00
88) A Perylene-d12	264	13.152	13.147	1.000	887165	40.00	ng/uL		0.00
96) B 1,4-Dichlorobenzene-d4	152	4.113	4.112	1.000	0m	40.00	ng/uL		0.00
112) B Naphthalene-d8	136	5.531	5.527	1.000	0m	40.00	ng/uL		0.00
120) B Acenaphthene-d10	164	7.258	7.257	1.000	0m	40.00	ng/uL		0.00
129) B Phenanthrene-d10	188	8.563	8.562	1.000	0m	40.00	ng/uL		0.00
142) B Chrysene-d12	240	10.970	10.959	1.000	0m	40.00	ng/uL		0.01
148) B Perylene-d12	264	13.152	13.148	1.000	0m	40.00	ng/uL		0.00
151) J Naphthalene-d8	136	5.531	5.525	1.000	0m	40.00	ng/uL		0.00
153) J Phenanthrene-d10	188	8.563	8.559	1.000	0m	40.00	ng/uL		0.00
156) J Chrysene-d12	240	10.970	10.959	1.000	0m	40.00	ng/uL		0.01
159) D Naphthalene-d8	136	5.531	5.525	1.000	0m	40.00	ng/uL		0.00
161) D Acenaphthene-d10	164	7.258	7.256	1.000	0m	40.00	ng/uL		0.00
164) D Phenanthrene-d10	188	8.563	8.560	1.000	0m	40.00	ng/uL		0.00
171) D Chrysene-d12	240	10.970	10.960	1.000	0m	40.00	ng/uL		0.01
173) E Naphthalene-d8	136	5.531	5.525	1.000	0m	40.00	ng/uL		0.00
175) E Perylene-d12	264	13.152	13.158	1.000	0m	40.00	ng/uL		0.00
System Monitoring Compounds									Dev(Min)
5) 2-Fluorophenol	112	2.803	2.803	0.681	652133	118.29	ng/uL		0.00
8) Phenol-d5	99	3.685	3.680	0.896	788708	119.20	ng/uL		0.00
23) Nitrobenzene-d5	82	4.718	4.712	0.853	760447	118.97	ng/uL		0.00
44) 2-Fluorobiphenyl	172	6.627	6.627	0.913	1594550	117.31	ng/uL		0.00
63) 2,4,6-Tribromophenol	330	7.959	7.959	1.097	412350	125.88	ng/uL		0.00 A
79) p-Terphenyl-d14	244	9.890	9.890	1.155	2238182	116.98	ng/uL		0.00
Target Compounds	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units		QValue
2) 2-Ethoxyethanol	59	1.610	1.610	0.391	471355	116.37	ng/uL		91
3) N-Methyl-N-nitrosometh...	74	1.797	1.797	0.437	422636	116.90	ng/uL		71
4) Pyridine	79	1.840	1.840	0.447	739133	117.89	ng/uL		70
6) p-Benzoquinone	54	3.279	3.279	0.797	502289	127.13	ng/uL		79 A
7) Aniline	93	3.765	3.760	0.915	946034	117.85	ng/uL		93
9) Phenol	94	3.701	3.696	0.900	839804	117.71	ng/uL		92
10) bis(2-Chloroethyl) ether	93	3.819	3.819	0.928	674608	116.37	ng/uL		88
11) 2-Chlorophenol	128	3.883	3.878	0.944	692337	118.88	ng/uL		94
12) n-Decane	43	3.926	3.926	0.954	981932	114.80	ng/uL		92
13) 1,3-Dichlorobenzene	146	4.054	4.049	0.986	780066	116.74	ng/uL		99
14) 1,4-Dichlorobenzene	146	4.129	4.129	1.004	798872	116.79	ng/uL		98
15) 1,2-Dichlorobenzene	146	4.295	4.295	1.044	755542	116.29	ng/uL		100
16) bis(2-Chloro-1-methyle...	45	4.402	4.397	1.070	1277894	115.36	ng/uL		87
17) Benzyl alcohol	108	4.247	4.242	1.033	459576	121.44	ng/uL		97 A
18) o-Cresol	107	4.354	4.348	1.059	560928	118.33	ng/uL		99
19) m,p-Cresols	108	4.530	4.525	1.101	667414	120.41	ng/uL		99 A
20) N-Nitrosodipropylamine	70	4.552	4.541	1.107	511971	121.09	ng/uL		73 A
21) Hexachloroethane	117	4.669	4.669	1.135	313672	117.92	ng/uL		92
24) Nitrobenzene	77	4.744	4.739	0.858	775609	117.57	ng/uL		98
25) Isophorone	82	5.012	5.006	0.906	1365362	120.18	ng/uL		99 A
26) 2-Nitrophenol	139	5.103	5.097	0.923	367439	126.08	ng/uL		93 A
27) 2,4-Dimethylphenol	122	5.140	5.135	0.929	511664	120.04	ng/uL		98 A
28) bis(2-Chloroethoxy)met...	93	5.258	5.258	0.951	869788	117.02	ng/uL		97
29) 2,4-Dichlorophenol	162	5.365	5.359	0.970	615278	119.99	ng/uL		98

Quantitation Report

Data Path : C:\msdchem\1\data\S080523a\
Data File : s3H0509.D
Acq On : 05 Aug 2023 13:48
Operator : LOF
Sample : |WBN230731-08|ICAL|1|SVM|1|M-8
Misc : |MIX[A]
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 07 14:29:13 2023
Quant Method : C:\msdchem\1\data\S080523a\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:28:22 2023
Response via : Initial Calibration

Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units		
30) Benzoic acid	105	5.268	5.226	0.953	559226	133.76	ng/uL	99	A
31) 1,2,4-Trichlorobenzene	180	5.466	5.466	0.988	672966	116.38	ng/uL	97	
32) alpha-Terpineol	59	5.563	5.557	1.006	763021	119.42	ng/uL	84	
33) Naphthalene	128	5.552	5.552	1.004	1999513	110.08	ng/uL	100	
34) 4-Chloroaniline	127	5.605	5.605	1.014	837990	116.51	ng/uL	96	
35) Hexachlorobutadiene	225	5.686	5.686	1.028	410488	116.47	ng/uL	99	
36) 4-Chloro-3-methylphenol	107	6.103	6.103	1.103	620908	121.02	ng/uL	99	A
37) 2-Methylnaphthalene	142	6.269	6.269	1.133	1317883	113.53	ng/uL	99	
38) 1-Methylnaphthalene	142	6.370	6.365	1.152	1276790	113.28	ng/uL	99	
40) Hexachlorocyclopentadiene	237	6.424	6.424	0.885	476993	122.79	ng/uL	98	A
41) 2,3-Dichloroaniline	161	6.547	6.541	0.902	781192	120.25	ng/uL	99	A
42) 2,4,6-Trichlorophenol	196	6.541	6.541	0.901	504555	122.62	ng/uL	99	A
43) 2,4,5-Trichlorophenol	196	6.573	6.568	0.906	504719	121.54	ng/uL	99	A
45) 2-Chloronaphthalene	162	6.745	6.739	0.929	1361774	113.47	ng/uL	98	
46) o-Nitroaniline	65	6.836	6.836	0.942	450601	127.47	ng/uL	92	A
47) 1,4-Dinitrobenzene	168	6.969	6.964	0.960	213803	131.69	ng/uL	95	A
48) m-Nitroaniline	138	7.221	7.215	0.995	388944	122.29	ng/uL	99	A
49) Dimethylphthalate	163	7.012	7.007	0.966	1563241	116.42	ng/uL	100	
50) m-Dinitrobenzene	168	7.039	7.034	0.970	241129	128.79	ng/uL	98	A
51) 2,6-Dinitrotoluene	165	7.066	7.060	0.973	348060	123.50	ng/uL	95	A
52) 2,4-Dinitrotoluene	165	7.429	7.424	1.024	478632	126.50	ng/uL	84	A
53) Acenaphthylene	152	7.135	7.130	0.983	2151618	116.97	ng/uL	100	
54) Acenaphthene	154	7.290	7.290	1.004	1357822	116.79	ng/uL	97	
55) 2,4-Dinitrophenol	184	7.312	7.306	1.007	225134	132.78	ng/uL	96	A
56) Dibenzofuran	168	7.445	7.445	1.026	1888621	115.95	ng/uL	99	
57) 2,3,4,6-Tetrachlorophenol	232	7.510	7.510	1.035	472921	125.85	ng/uL	97	A
58) Diethylphthalate	149	7.643	7.643	1.053	1627225	118.19	ng/uL	99	
59) 4-Nitrophenol	109	7.354	7.349	1.013	240913	123.15	ng/uL	93	A
60) Fluorene	166	7.750	7.750	1.068	1582417	115.30	ng/uL	98	
61) 4-Chlorophenylphenylether	204	7.745	7.745	1.067	770994	117.70	ng/uL	97	
62) p-Nitroaniline	138	7.766	7.756	1.070	399913	123.84	ng/uL	94	A
65) 2-Methyl-4,6-dinitroph...	198	7.788	7.782	0.909	272339	130.40	ng/uL	87	A
66) Diphenylamine	169	7.852	7.847	0.917	1356653	117.70	ng/uL	93	
67) 1,2-Diphenylhydrazine	77	7.884	7.884	0.921	1636484	115.84	ng/uL	97	
68) 4-Bromophenylphenylether	248	8.173	8.173	0.954	528425	119.09	ng/uL	93	
69) Hexachlorobenzene	284	8.226	8.226	0.961	683741	117.12	ng/uL	100	
70) Pentachlorophenol	266	8.387	8.387	0.979	409183	129.06	ng/uL	99	A
71) n-Octadecane	57	8.445	8.446	0.986	1353239	118.30	ng/uL	89	
72) Dinoseb	211	8.542	8.536	0.998	434631	139.25	ng/uL	97	A
73) Phenanthrene	178	8.585	8.579	1.002	2321047	111.33	ng/uL	100	
74) Anthracene	178	8.627	8.622	1.007	2320990	113.84	ng/uL	99	
75) Carbazole	167	8.756	8.756	1.022	2130563	116.73	ng/uL	99	
76) Di-n-butylphthalate	149	9.034	9.029	1.055	2735674	122.91	ng/uL	99	A
77) Fluoranthene	202	9.585	9.585	1.119	2604536	117.04	ng/uL	97	
78) Pyrene	202	9.777	9.777	1.142	2734582	116.18	ng/uL	98	
81) Butylbenzylphthalate	149	10.323	10.323	0.941	1226279	135.85	ng/uL	98	A
82) bis(2-Ethylhexyl)phtha...	149	10.943	10.943	0.998	1951970	131.42	ng/uL	100	A
83) Benzo(a)anthracene	228	10.954	10.949	0.999	2895120	114.07	ng/uL	99	
84) Chrysene	228	11.002	10.997	1.003	2634137	113.54	ng/uL	98	
85) Methoxychlor	227	10.852	10.847	0.989	1792412	130.81	ng/uL	98	A
86) Methylenebis(2-chloroa...	231	10.911	10.906	0.995	580118	130.07	ng/uL	94	A
87) Di-n-octylphthalate	149	11.853	11.847	1.080	3103314	145.13	ng/uL	92	A
89) Benzo(b)fluoranthene	252	12.494	12.484	0.950	3001870	116.14	ng/uL	97	
90) Benzo(k)fluoranthene	252	12.543	12.532	0.954	2831571	116.43	ng/uL	96	
91) Benzo(a)pyrene	252	13.061	13.051	0.993	2631133	121.59	ng/uL	96	A
92) Indeno(1,2,3-cd)pyrene	276	15.308	15.286	1.164	2616454	107.82	ng/uL	92	
93) Dibenzo(a,h)anthracene	278	15.367	15.345	1.168	3138271	119.77	ng/uL	95	

Quantitation Report

Data Path : C:\msdchem\1\data\S080523a\
Data File : s3H0509.D
Acq On : 05 Aug 2023 13:48
Operator : LOF
Sample : |WBN230731-08|ICAL|1|SVM|1|M-8
Misc : |MIX[A]
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 07 14:29:13 2023
Quant Method : C:\msdchem\1\data\S080523a\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:28:22 2023
Response via : Initial Calibration

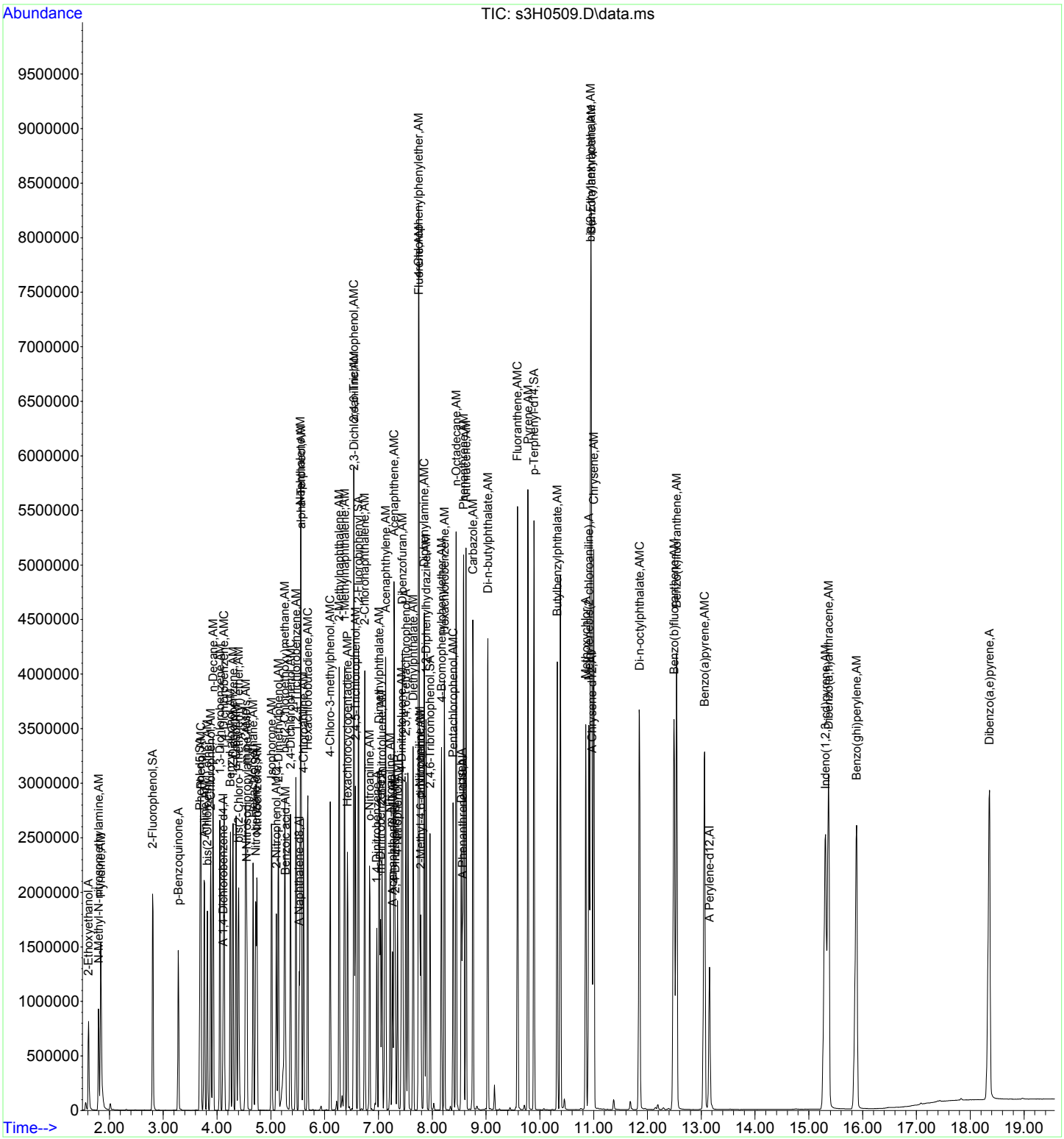
Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	
94) Benzo(ghi)perylene	276	15.885	15.864	1.208	3031433	117.84	ng/uL	93
95) Dibenzo(a,e)pyrene	302	18.357	18.335	1.396	2852765	120.75	ng/uL	93 A

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(A) = Over the calibration range (d) = deleted

Quantitation Report

Data Path : C:\msdchem\1\data\S080523a\
Data File : s3H0509.D
Acq On : 05 Aug 2023 13:48
Operator : LOF
Sample : |WBN230731-08|ICAL|1|SVM|1|M-8
Misc : |MIX[A]
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 07 14:29:13 2023
Quant Method : C:\msdchem\1\data\S080523a\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:28:22 2023
Response via : Initial Calibration



Continuing Calibration Summary

Client SDG: 631221

Instrument ID: MSD3.I **Injection Date:** 05-AUG-23 14:13

Data File: S080523a\s3H0510.D **Init. Cal. Date(s)** 05-AUG-23 10:57 - 06-AUG-23 22:14

Lab Sample ID WBN230706-43.2 **Method:** S080523a\MSD3_8270_080523a.m

Quant Type ISTD **Method Update:** 07-AUG-23 14:34

	Compound	AVERF / Amount	RF CCV	Nominal CCV	Min RF	RF Q	%D / %Drift	Max	Drift Q	Curve Type
S	2-Fluorophenol	1.3643	1.26232		.01		-7.4749	20		Averaged
S	Phenol-d5	1.6375	1.49801		.01		-8.51847	20		Averaged
S	Nitrobenzene-d5	0.3865	0.37209		.01		-3.72833	20		Averaged
S	2-Fluorobiphenyl	1.596	1.50365		.01		-5.78634	20		Averaged
S	2,4,6-Tribromophenol	0.3846	0.35524		.01		-7.63391	20		Averaged
S	p-Terphenyl-d14	1.0914	1.00375		.01		-8.03097	20		Averaged
	Phenol	1.7656	1.72449		.8		-2.32839	20		Averaged
	1,4-Dichlorobenzene	1.6928	1.6423		.01		-2.98322	20		Averaged
	N-Nitrosodipropylamine	1.0463	0.94936		.05		-9.26503	20		Averaged
	2-Nitrophenol	0.1762	0.17499		.1		-0.68672	20		Averaged
	2,4-Dichlorophenol	0.3101	0.30118		.2		-2.87649	20		Averaged
	Hexachlorobutadiene	0.2131	0.2051		.01		-3.75411	20		Averaged
	4-Chloro-3-methylphenol	0.3102	0.29981		.2		-3.34945	20		Averaged
	Hexachlorocyclopentadiene	0.4561	0.51026		.05		11.87459	20		Averaged
	2,4,6-Trichlorophenol	0.4832	0.46281		.2		-4.21978	20		Averaged
	Dimethylphthalate	1.5767	1.47647		.01		-6.35695	20		Averaged
	Acenaphthene	1.3652	1.27082		.9		-6.91327	20		Averaged
	2,4-Dinitrophenol	0.1991	0.19076		.05		-4.18885	20		Averaged
	4-Nitrophenol	0.2297	0.22623		.05		-1.51067	20		Averaged
	Diphenylamine	0.6575	0.63204		.01		-3.87224	20		Averaged
	Pentachlorophenol	0.1809	0.18047		.05		-0.2377	20		Averaged
	Fluoranthene	1.2694	1.18388		.6		-6.73704	20		Averaged
	Di-n-octylphthalate	1.0647	1.06639		.01		0.15873	20		Averaged
	Benzo(a)pyrene	0.9757	0.94688		.7		-2.95378	20		Averaged

Quantitation Report

08/07/2023

Data Path : C:\msdchem\1\data\S080523a\
Data File : s3H0510.D
Acq On : 05 Aug 2023 14:13
Operator : LOF
Sample : |WBN230706-43.2|ICV|1|SVM|1|M-ICV
Misc : |MIX[A]
ALS Vial : 10 Sample Multiplier: 1

08/07/2023

Quant Time: Aug 07 14:35:56 2023
Quant Method : C:\msdchem\1\data\S080523a\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:34:09 2023
Response via : Initial Calibration

Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	Dev(Min)
Internal Standards								
1) A 1,4-Dichlorobenzene-d4	152	4.108	4.113	1.000	154545	40.00	ng/uL	0.00
22) A Naphthalene-d8	136	5.525	5.525	1.000	628951	40.00	ng/uL	0.00
39) A Acenaphthene-d10	164	7.258	7.258	1.000	329023	40.00	ng/uL	0.00
64) A Phenanthrene-d10	188	8.558	8.558	1.000	682977	40.00	ng/uL	0.00
80) A Chrysene-d12	240	10.959	10.965	1.000	772079	40.00	ng/uL	0.00
88) A Perylene-d12	264	13.147	13.147	1.000	839330	40.00	ng/uL	0.00
96) B 1,4-Dichlorobenzene-d4	152	4.108	4.112	1.000	154545	40.00	ng/uL	0.00
112) B Naphthalene-d8	136	5.525	5.527	1.000	628951	40.00	ng/uL	0.00
120) B Acenaphthene-d10	164	7.258	7.257	1.000	329023	40.00	ng/uL	0.00
129) B Phenanthrene-d10	188	8.558	8.562	1.000	682977	40.00	ng/uL	0.00
142) B Chrysene-d12	240	10.959	10.959	1.000	772079	40.00	ng/uL	0.00
148) B Perylene-d12	264	13.147	13.148	1.000	839330	40.00	ng/uL	0.00
151) J Naphthalene-d8	136	5.525	5.525	1.000	628951	40.00	ng/uL	0.00
153) J Phenanthrene-d10	188	8.558	8.559	1.000	682977	40.00	ng/uL	0.00
156) J Chrysene-d12	240	10.959	10.959	1.000	772079	40.00	ng/uL	0.00
159) D Naphthalene-d8	136	5.525	5.525	1.000	628951	40.00	ng/uL	0.00
161) D Acenaphthene-d10	164	7.258	7.256	1.000	329023	40.00	ng/uL	0.00
164) D Phenanthrene-d10	188	8.558	8.560	1.000	682977	40.00	ng/uL	0.00
171) D Chrysene-d12	240	10.959	10.960	1.000	772079	40.00	ng/uL	0.00
173) E Naphthalene-d8	136	5.525	5.525	1.000	628951	40.00	ng/uL	0.00
175) E Perylene-d12	264	13.147	13.158	1.000	839330	40.00	ng/uL	-0.01
System Monitoring Compounds								Dev(Min)
5) 2-Fluorophenol	112	2.803	2.803	0.682	195086	37.01	ng/uL	0.00
8) Phenol-d5	99	3.680	3.680	0.896	231510	36.59	ng/uL	0.00
23) Nitrobenzene-d5	82	4.712	4.712	0.853	234029	38.51	ng/uL	0.00
44) 2-Fluorobiphenyl	172	6.627	6.627	0.913	494734	37.68	ng/uL	0.00
63) 2,4,6-Tribromophenol	330	7.953	7.959	1.096	116881	36.94	ng/uL	0.00
79) p-Terphenyl-d14	244	9.890	9.890	1.156	685539	36.79	ng/uL	0.00
Target Compounds	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	QValue
2) 2-Ethoxyethanol	59	1.610	1.610	0.392	147816	38.17	ng/uL	92
3) N-Methyl-N-nitrosometh...	74	1.797	1.797	0.437	133152	38.52	ng/uL	71
4) Pyridine	79	1.840	1.840	0.448	246933	41.19	ng/uL	68
7) Aniline	93	3.755	3.760	0.914	333971	43.51	ng/uL	93
9) Phenol	94	3.691	3.696	0.898	266512	39.07	ng/uL	92
10) bis(2-Chloroethyl) ether	93	3.814	3.819	0.928	208923	37.69	ng/uL	87
11) 2-Chlorophenol	128	3.878	3.878	0.944	216951	38.96	ng/uL	94
12) n-Decane	43	3.926	3.926	0.956	327235	40.01	ng/uL	90
13) 1,3-Dichlorobenzene	146	4.049	4.049	0.986	243550	38.12	ng/uL	99
14) 1,4-Dichlorobenzene	146	4.129	4.129	1.005	253809	38.81	ng/uL	99
15) 1,2-Dichlorobenzene	146	4.295	4.295	1.046	236196	38.02	ng/uL	99
16) bis(2-Chloro-1-methyle...	45	4.397	4.397	1.070	350707	33.11	ng/uL	84
17) Benzyl alcohol	108	4.241	4.242	1.033	141093	38.99	ng/uL	97
18) o-Cresol	107	4.348	4.348	1.059	179608	39.63	ng/uL	99
19) m,p-Cresols	108	4.520	4.525	1.100	206392	38.94	ng/uL	90
20) N-Nitrosodipropylamine	70	4.541	4.541	1.105	146719	36.29	ng/uL	72
21) Hexachloroethane	117	4.669	4.669	1.137	97295	38.25	ng/uL	92
24) Nitrobenzene	77	4.734	4.739	0.857	241232	38.46	ng/uL	98
25) Isophorone	82	5.006	5.006	0.906	418177	38.71	ng/uL	100
26) 2-Nitrophenol	139	5.097	5.097	0.923	110061	39.72	ng/uL	93
27) 2,4-Dimethylphenol	122	5.135	5.135	0.929	182193	44.96	ng/uL	97
28) bis(2-Chloroethoxy)met...	93	5.252	5.258	0.951	272571	38.57	ng/uL	100
29) 2,4-Dichlorophenol	162	5.359	5.359	0.970	189427	38.85	ng/uL	99
30) Benzoic acid	105	5.215	5.226	0.944	149236	37.54	ng/uL	96

Quantitation Report

Data Path : C:\msdchem\1\data\S080523a\
Data File : s3H0510.D
Acq On : 05 Aug 2023 14:13
Operator : LOF
Sample : |WBN230706-43.2|ICV|1|SVM|1|M-ICV
Misc : |MIX[A]
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 07 14:35:56 2023
Quant Method : C:\msdchem\1\data\S080523a\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:34:09 2023
Response via : Initial Calibration

Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	
31) 1,2,4-Trichlorobenzene	180	5.461	5.466	0.988	211132	38.40	ng/uL	96
32) alpha-Terpineol	59	5.557	5.557	1.006	225333	37.09	ng/uL	84
33) Naphthalene	128	5.552	5.552	1.005	631372	36.56	ng/uL	100
34) 4-Chloroaniline	127	5.600	5.605	1.014	265518	38.83	ng/uL	96
35) Hexachlorobutadiene	225	5.680	5.686	1.028	128996	38.50	ng/uL	100
36) 4-Chloro-3-methylphenol	107	6.097	6.103	1.104	188563	38.66	ng/uL	100
37) 2-Methylnaphthalene	142	6.269	6.269	1.135	419852	38.04	ng/uL	100
38) 1-Methylnaphthalene	142	6.365	6.365	1.152	403653	37.67	ng/uL	98
40) Hexachlorocyclopentadiene	237	6.424	6.424	0.885	167887	44.75	ng/uL	98
41) 2,3-Dichloroaniline	161	6.541	6.541	0.901	239902	38.24	ng/uL	99
42) 2,4,6-Trichlorophenol	196	6.541	6.541	0.901	152275	38.31	ng/uL	99
43) 2,4,5-Trichlorophenol	196	6.568	6.568	0.905	156903	39.12	ng/uL	98
45) 2-Chloronaphthalene	162	6.739	6.739	0.929	421213	36.34	ng/uL	97
46) o-Nitroaniline	65	6.830	6.836	0.941	134232	39.32	ng/uL	90
47) 1,4-Dinitrobenzene	168	6.964	6.964	0.959	64001	40.82	ng/uL	98
48) m-Nitroaniline	138	7.210	7.215	0.993	117479	38.24	ng/uL	100
49) Dimethylphthalate	163	7.007	7.007	0.965	485794	37.46	ng/uL	99
50) m-Dinitrobenzene	168	7.033	7.034	0.969	71774	39.69	ng/uL#	75
51) 2,6-Dinitrotoluene	165	7.060	7.060	0.973	106460	39.11	ng/uL	95
52) 2,4-Dinitrotoluene	165	7.424	7.424	1.023	141638	38.76	ng/uL	93
53) Acenaphthylene	152	7.130	7.130	0.982	658225	37.05	ng/uL	99
54) Acenaphthene	154	7.290	7.290	1.004	418129	37.24	ng/uL	97
55) 2,4-Dinitrophenol	184	7.306	7.306	1.007	62763	38.33	ng/uL	98
56) Dibenzofuran	168	7.445	7.445	1.026	605290	38.48	ng/uL	100
57) 2,3,4,6-Tetrachlorophenol	232	7.547	7.510	1.040	134788	37.14	ng/uL	99
58) Diethylphthalate	149	7.638	7.643	1.052	500473	37.64	ng/uL	100
59) 4-Nitrophenol	109	7.349	7.349	1.013	74434	39.40	ng/uL	93
60) Fluorene	166	7.750	7.750	1.068	479815	36.20	ng/uL	99
61) 4-Chlorophenylphenylether	204	7.745	7.745	1.067	237819	37.59	ng/uL	97
62) p-Nitroaniline	138	7.756	7.756	1.069	125764	40.32	ng/uL	95
65) 2-Methyl-4,6-dinitroph...	198	7.782	7.782	0.909	82916	40.76	ng/uL	87
66) Diphenylamine	169	7.846	7.847	0.917	431667	38.45	ng/uL	95
67) 1,2-Diphenylhydrazine	77	7.884	7.884	0.921	519792	37.78	ng/uL	98
68) 4-Bromophenylphenylether	248	8.167	8.173	0.954	162219	37.54	ng/uL	93
69) Hexachlorobenzene	284	8.221	8.226	0.961	208602	36.69	ng/uL	100
70) Pentachlorophenol	266	8.387	8.387	0.980	123259	39.91	ng/uL	100
71) n-Octadecane	57	8.440	8.446	0.986	406686	36.50	ng/uL	87
72) Dinoseb	211	8.536	8.536	0.997	119898	39.44	ng/uL	98
73) Phenanthrene	178	8.579	8.579	1.002	725939	35.75	ng/uL	98
74) Anthracene	178	8.622	8.622	1.007	735922	37.06	ng/uL	99
75) Carbazole	167	8.750	8.756	1.022	668031	37.58	ng/uL	99
76) Di-n-butylphthalate	149	9.028	9.029	1.055	865256	39.91	ng/uL	99
77) Fluoranthene	202	9.585	9.585	1.120	808564	37.31	ng/uL	97
78) Pyrene	202	9.777	9.777	1.142	833264	36.35	ng/uL	97
81) Butylbenzylphthalate	149	10.318	10.323	0.941	345936	39.88	ng/uL	98
82) bis(2-Ethylhexyl)phtha...	149	10.943	10.943	0.999	559043	39.16	ng/uL	100
83) Benzo(a)anthracene	228	10.949	10.949	0.999	881929	36.15	ng/uL	98
84) Chrysene	228	10.991	10.997	1.003	788127	35.35	ng/uL	97
85) Methoxychlor	227	10.847	10.847	0.990	516229	39.20	ng/uL	99
86) Methylenebis(2-chloroa...	231	10.906	10.906	0.995	169501	39.54	ng/uL	95
87) Di-n-octylphthalate	149	11.847	11.847	1.081	823335	40.06	ng/uL	91
89) Benzo(b)fluoranthene	252	12.478	12.484	0.949	919332	37.60	ng/uL	96
90) Benzo(k)fluoranthene	252	12.527	12.532	0.953	885648	38.49	ng/uL	96
91) Benzo(a)pyrene	252	13.045	13.051	0.992	794745	38.82	ng/uL	96
92) Indeno(1,2,3-cd)pyrene	276	15.281	15.286	1.162	847546	37.53	ng/uL	92
93) Dibenzo(a,h)anthracene	278	15.340	15.345	1.167	916290	36.96	ng/uL	95
94) Benzo(ghi)perylene	276	15.853	15.864	1.206	921180	37.85	ng/uL	92

Quantitation Report

Data Path : C:\msdchem\1\data\S080523a\
Data File : s3H0510.D
Acq On : 05 Aug 2023 14:13
Operator : LOF
Sample : |WBN230706-43.2|ICV|1|SVM|1|M-ICV
Misc : |MIX[A]
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 07 14:35:56 2023
Quant Method : C:\msdchem\1\data\S080523a\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:34:09 2023
Response via : Initial Calibration

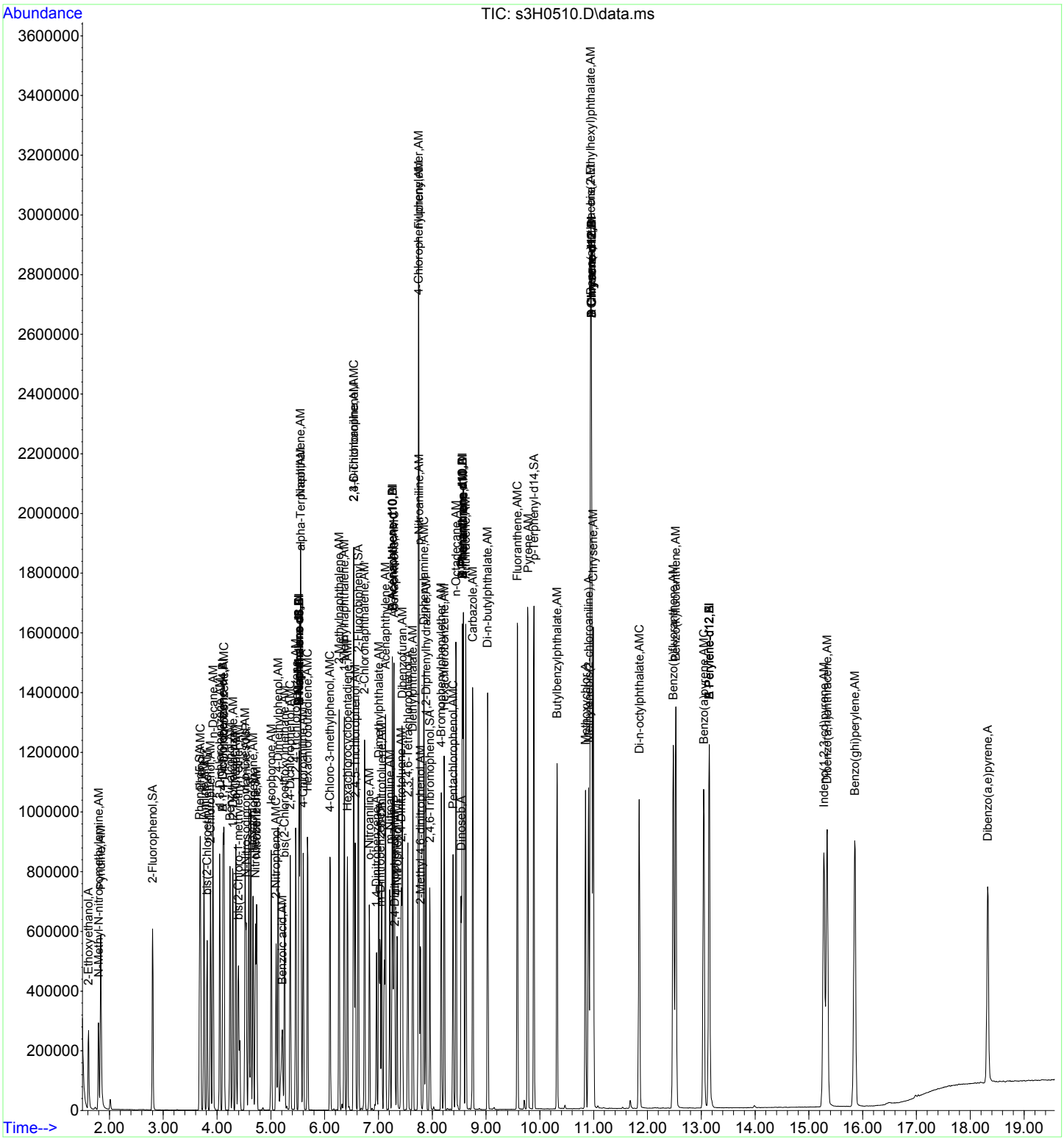
Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	
95) Dibenzo(a,e)pyrene	302	18.324	18.335	1.394	570315	25.52	ng/uL	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(A) = Over the calibration range (d) = deleted

Quantitation Report

Data Path : C:\msdchem\1\data\S080523a\
Data File : s3H0510.D
Acq On : 05 Aug 2023 14:13
Operator : LOF
Sample : |WBN230706-43.2|ICV|1|SVM|1|M-ICV
Misc : |MIX[A]
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 07 14:35:56 2023
Quant Method : C:\msdchem\1\data\S080523a\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:34:09 2023
Response via : Initial Calibration



Quantitation Report

08/07/2023

Data Path : C:\msdchem\1\data\S080523a\
Data File : s3H0538.D
Acq On : 06 Aug 2023 20:41
Operator : LOF
Sample : |WBN230710-31|ICAL|1|SVM|1|H-2
Misc : |MIX[E]
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Aug 07 14:25:22 2023
Quant Method : C:\msdchem\1\data\S080523a\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:23:05 2023
Response via : Initial Calibration

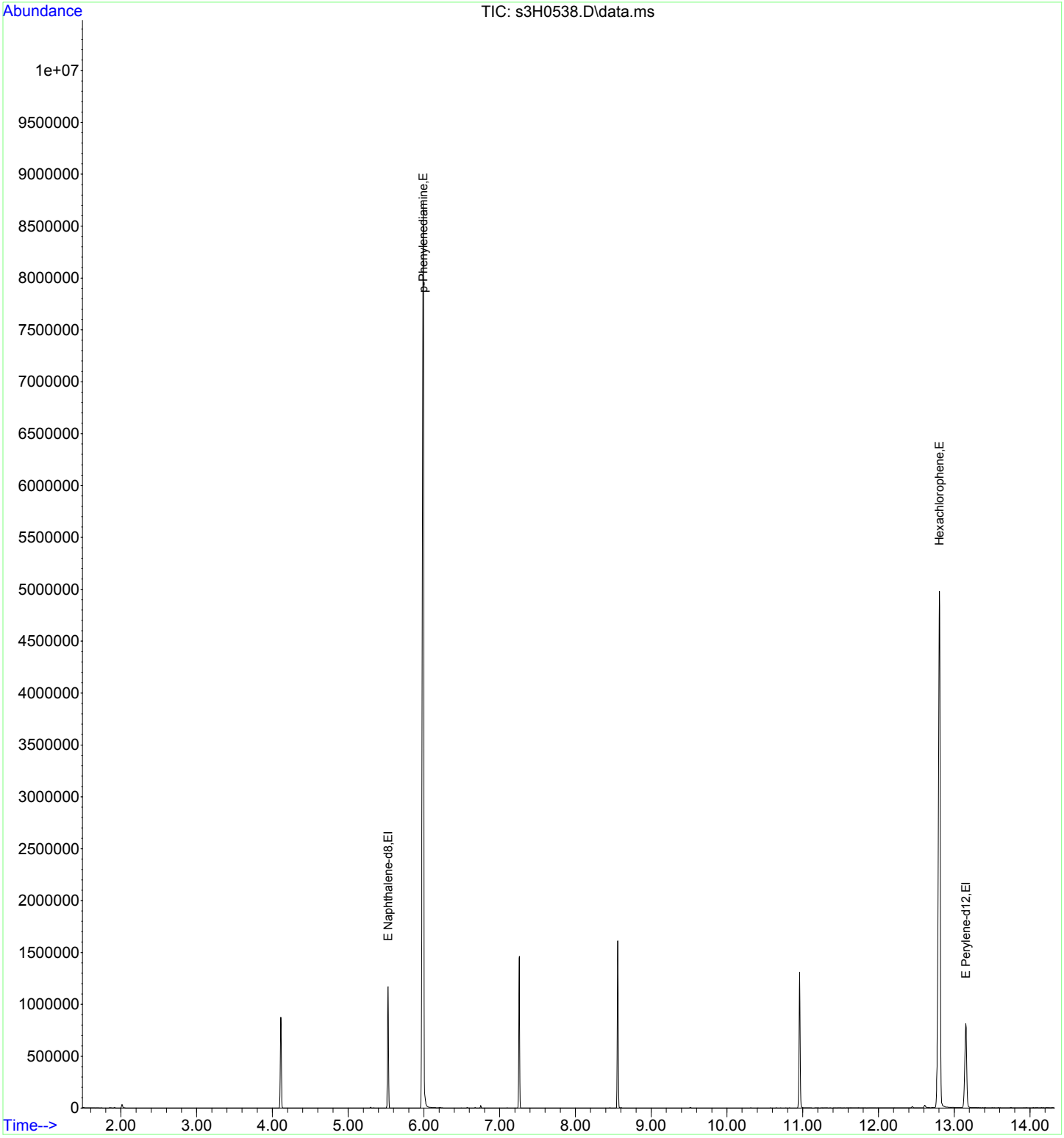
Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	Dev(Min)
Internal Standards								
1) A 1,4-Dichlorobenzene-d4	152	4.110	4.113	1.000	0m	40.00	ng/uL	0.00
22) A Naphthalene-d8	136	5.528	5.525	1.000	0m	40.00	ng/uL	0.00
39) A Acenaphthene-d10	164	7.256	7.258	1.000	0m	40.00	ng/uL	0.00
64) A Phenanthrene-d10	188	8.559	8.558	1.000	0m	40.00	ng/uL	0.00
80) A Chrysene-d12	240	10.958	10.965	1.000	0m	40.00	ng/uL	0.00
88) A Perylene-d12	264	13.154	13.147	1.000	0m	40.00	ng/uL	0.00
96) B 1,4-Dichlorobenzene-d4	152	4.110	4.112	1.000	0m	40.00	ng/uL	0.00
112) B Naphthalene-d8	136	5.528	5.527	1.000	0m	40.00	ng/uL	0.00
120) B Acenaphthene-d10	164	7.256	7.257	1.000	0m	40.00	ng/uL	0.00
129) B Phenanthrene-d10	188	8.559	8.562	1.000	0m	40.00	ng/uL	0.00
142) B Chrysene-d12	240	10.958	10.959	1.000	0m	40.00	ng/uL	0.00
148) B Perylene-d12	264	13.154	13.148	1.000	0m	40.00	ng/uL	0.00
151) J Naphthalene-d8	136	5.528	5.525	1.000	0m	40.00	ng/uL	0.00
153) J Phenanthrene-d10	188	8.559	8.559	1.000	0m	40.00	ng/uL	0.00
156) J Chrysene-d12	240	10.958	10.959	1.000	0m	40.00	ng/uL	0.00
159) D Naphthalene-d8	136	5.528	5.525	1.000	0m	40.00	ng/uL	0.00
161) D Acenaphthene-d10	164	7.256	7.256	1.000	0m	40.00	ng/uL	0.00
164) D Phenanthrene-d10	188	8.559	8.560	1.000	0m	40.00	ng/uL	0.00
171) D Chrysene-d12	240	10.958	10.960	1.000	0m	40.00	ng/uL	0.00
173) E Naphthalene-d8	136	5.528	5.525	1.000	464248	40.00	ng/uL	0.00
175) E Perylene-d12	264	13.154	13.158	1.000	528076	40.00	ng/uL	0.00
System Monitoring Compounds								Dev(Min)
5) 2-Fluorophenol	112	0.000	2.803	0.000	0	0.00	ng/uL	
8) Phenol-d5	99	0.000	3.680	0.000	0	0.00	ng/uL	
23) Nitrobenzene-d5	82	0.000	4.712	0.000	0	0.00	ng/uL	
44) 2-Fluorobiphenyl	172	0.000	6.627	0.000	0	0.00	ng/uL	
63) 2,4,6-Tribromophenol	330	0.000	7.959	0.000	0	0.00	ng/uL	
79) p-Terphenyl-d14	244	0.000	9.890	0.000	0	0.00	ng/uL	
Target Compounds	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	QValue
174) p-Phenylenediamine	108	5.990	5.997	1.084	3460467	492.81	ng/uL	95
176) Hexachlorophene	196	12.805	12.812	0.973	668930	387.22	ng/uL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(A) = Over the calibration range (d) = deleted

Quantitation Report

Data Path : C:\msdchem\1\data\S080523a\
Data File : s3H0538.D
Acq On : 06 Aug 2023 20:41
Operator : LOF
Sample : |WBN230710-31|ICAL|1|SVM|1|H-2
Misc : |MIX[E]
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Aug 07 14:25:22 2023
Quant Method : C:\msdchem\1\data\S080523a\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:23:05 2023
Response via : Initial Calibration



Quantitation Report

08/07/2023

Data Path : C:\msdchem\1\data\S080523a\
Data File : s3H0539.D
Acq On : 06 Aug 2023 21:00
Operator : LOF
Sample : |WBN230710-32|ICAL|1|SVM|1|H-3
Misc : |MIX[E]
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Aug 07 14:25:25 2023
Quant Method : C:\msdchem\1\data\S080523a\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:23:05 2023
Response via : Initial Calibration

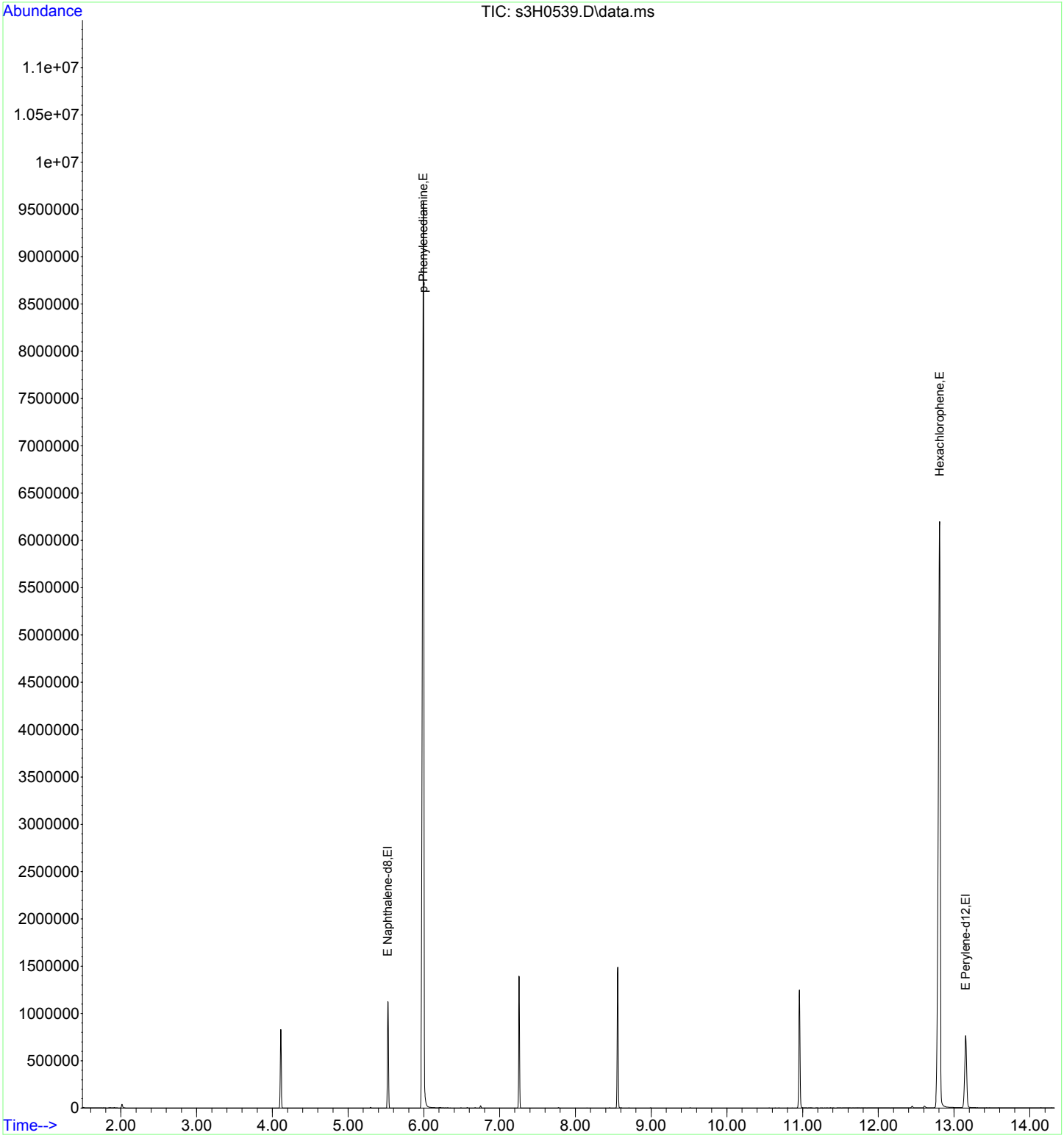
Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	Dev(Min)
Internal Standards								
1) A 1,4-Dichlorobenzene-d4	152	4.111	4.113	1.000	0m	40.00	ng/uL	0.00
22) A Naphthalene-d8	136	5.525	5.525	1.000	0m	40.00	ng/uL	0.00
39) A Acenaphthene-d10	164	7.256	7.258	1.000	0m	40.00	ng/uL	0.00
64) A Phenanthrene-d10	188	8.560	8.558	1.000	0m	40.00	ng/uL	0.00
80) A Chrysene-d12	240	10.959	10.965	1.000	0m	40.00	ng/uL	0.00
88) A Perylene-d12	264	13.152	13.147	1.000	0m	40.00	ng/uL	0.00
96) B 1,4-Dichlorobenzene-d4	152	4.111	4.112	1.000	0m	40.00	ng/uL	0.00
112) B Naphthalene-d8	136	5.525	5.527	1.000	0m	40.00	ng/uL	0.00
120) B Acenaphthene-d10	164	7.256	7.257	1.000	0m	40.00	ng/uL	0.00
129) B Phenanthrene-d10	188	8.560	8.562	1.000	0m	40.00	ng/uL	0.00
142) B Chrysene-d12	240	10.959	10.959	1.000	0m	40.00	ng/uL	0.00
148) B Perylene-d12	264	13.152	13.148	1.000	0m	40.00	ng/uL	0.00
151) J Naphthalene-d8	136	5.525	5.525	1.000	0m	40.00	ng/uL	0.00
153) J Phenanthrene-d10	188	8.560	8.559	1.000	0m	40.00	ng/uL	0.00
156) J Chrysene-d12	240	10.959	10.959	1.000	0m	40.00	ng/uL	0.00
159) D Naphthalene-d8	136	5.525	5.525	1.000	0m	40.00	ng/uL	0.00
161) D Acenaphthene-d10	164	7.256	7.256	1.000	0m	40.00	ng/uL	0.00
164) D Phenanthrene-d10	188	8.560	8.560	1.000	0m	40.00	ng/uL	0.00
171) D Chrysene-d12	240	10.959	10.960	1.000	0m	40.00	ng/uL	0.00
173) E Naphthalene-d8	136	5.525	5.525	1.000	440083	40.00	ng/uL	0.00
175) E Perylene-d12	264	13.152	13.158	1.000	509846	40.00	ng/uL	0.00
System Monitoring Compounds								Dev(Min)
5) 2-Fluorophenol	112	0.000	2.803	0.000	0	0.00	ng/uL	
8) Phenol-d5	99	0.000	3.680	0.000	0	0.00	ng/uL	
23) Nitrobenzene-d5	82	0.000	4.712	0.000	0	0.00	ng/uL	
44) 2-Fluorobiphenyl	172	0.000	6.627	0.000	0	0.00	ng/uL	
63) 2,4,6-Tribromophenol	330	0.000	7.959	0.000	0	0.00	ng/uL	
79) p-Terphenyl-d14	244	0.000	9.890	0.000	0	0.00	ng/uL	
Target Compounds	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	QValue
174) p-Phenylenediamine	108	5.994	5.997	1.085	3991162	599.60	ng/uL	95
176) Hexachlorophene	196	12.809	12.812	0.974	907316	544.00	ng/uL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(A) = Over the calibration range (d) = deleted

Quantitation Report

Data Path : C:\msdchem\1\data\S080523a\
Data File : s3H0539.D
Acq On : 06 Aug 2023 21:00
Operator : LOF
Sample : |WBN230710-32|ICAL|1|SVM|1|H-3
Misc : |MIX[E]
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Aug 07 14:25:25 2023
Quant Method : C:\msdchem\1\data\S080523a\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:23:05 2023
Response via : Initial Calibration



Quantitation Report

08/07/2023

Data Path : C:\msdchem\1\data\S080523a\
Data File : s3H0540.D
Acq On : 06 Aug 2023 21:19
Operator : LOF
Sample : |WBN230710-33.1|ICAL|1|SVM|1|H-4
Misc : |MIX[E]
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Aug 07 14:25:28 2023
Quant Method : C:\msdchem\1\data\S080523a\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:23:05 2023
Response via : Initial Calibration

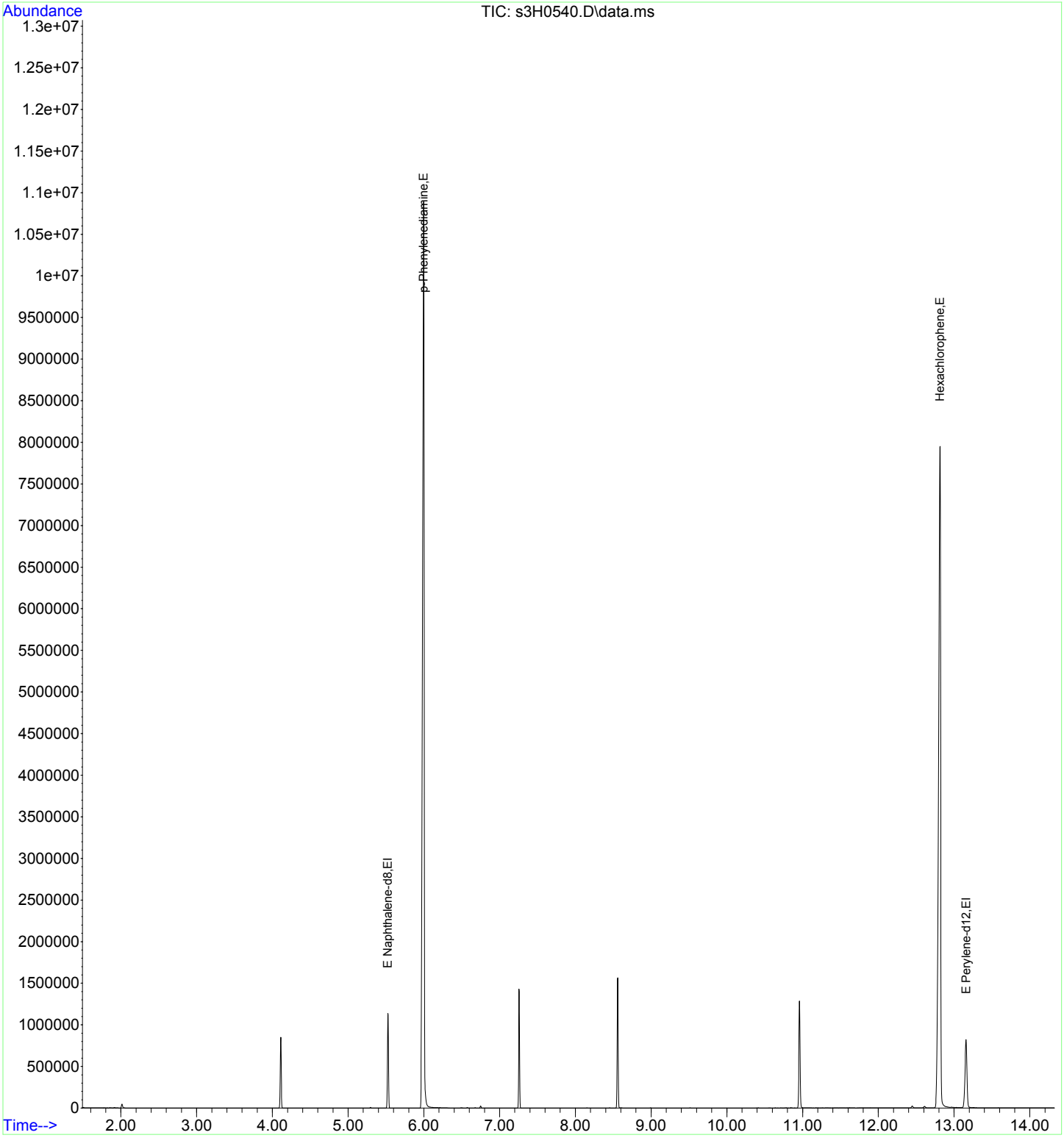
Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	Dev(Min)
Internal Standards								
1) A 1,4-Dichlorobenzene-d4	152	4.111	4.113	1.000	0m	40.00	ng/uL	0.00
22) A Naphthalene-d8	136	5.525	5.525	1.000	0m	40.00	ng/uL	0.00
39) A Acenaphthene-d10	164	7.256	7.258	1.000	0m	40.00	ng/uL	0.00
64) A Phenanthrene-d10	188	8.560	8.558	1.000	0m	40.00	ng/uL	0.00
80) A Chrysene-d12	240	10.959	10.965	1.000	0m	40.00	ng/uL	0.00
88) A Perylene-d12	264	13.158	13.147	1.000	0m	40.00	ng/uL	0.01
96) B 1,4-Dichlorobenzene-d4	152	4.111	4.112	1.000	0m	40.00	ng/uL	0.00
112) B Naphthalene-d8	136	5.525	5.527	1.000	0m	40.00	ng/uL	0.00
120) B Acenaphthene-d10	164	7.256	7.257	1.000	0m	40.00	ng/uL	0.00
129) B Phenanthrene-d10	188	8.560	8.562	1.000	0m	40.00	ng/uL	0.00
142) B Chrysene-d12	240	10.959	10.959	1.000	0m	40.00	ng/uL	0.00
148) B Perylene-d12	264	13.158	13.148	1.000	0m	40.00	ng/uL	0.01
151) J Naphthalene-d8	136	5.525	5.525	1.000	0m	40.00	ng/uL	0.00
153) J Phenanthrene-d10	188	8.560	8.559	1.000	0m	40.00	ng/uL	0.00
156) J Chrysene-d12	240	10.959	10.959	1.000	0m	40.00	ng/uL	0.00
159) D Naphthalene-d8	136	5.525	5.525	1.000	0m	40.00	ng/uL	0.00
161) D Acenaphthene-d10	164	7.256	7.256	1.000	0m	40.00	ng/uL	0.00
164) D Phenanthrene-d10	188	8.560	8.560	1.000	0m	40.00	ng/uL	0.00
171) D Chrysene-d12	240	10.959	10.960	1.000	0m	40.00	ng/uL	0.00
173) E Naphthalene-d8	136	5.525	5.525	1.000	446838	40.00	ng/uL	0.00
175) E Perylene-d12	264	13.158	13.158	1.000	533353	40.00	ng/uL	0.00
System Monitoring Compounds								Dev(Min)
5) 2-Fluorophenol	112	0.000	2.803	0.000	0	0.00	ng/uL	
8) Phenol-d5	99	0.000	3.680	0.000	0	0.00	ng/uL	
23) Nitrobenzene-d5	82	0.000	4.712	0.000	0	0.00	ng/uL	
44) 2-Fluorobiphenyl	172	0.000	6.627	0.000	0	0.00	ng/uL	
63) 2,4,6-Tribromophenol	330	0.000	7.959	0.000	0	0.00	ng/uL	
79) p-Terphenyl-d14	244	0.000	9.890	0.000	0	0.00	ng/uL	
Target Compounds	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	QValue
174) p-Phenylenediamine	108	5.997	5.997	1.085	4878676	721.85	ng/uL	95
176) Hexachlorophene	196	12.812	12.812	0.974	1229848	704.88	ng/uL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(A) = Over the calibration range (d) = deleted

Quantitation Report

Data Path : C:\msdchem\1\data\S080523a\
Data File : s3H0540.D
Acq On : 06 Aug 2023 21:19
Operator : LOF
Sample : |WBN230710-33.1|ICAL|1|SVM|1|H-4
Misc : |MIX[E]
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Aug 07 14:25:28 2023
Quant Method : C:\msdchem\1\data\S080523a\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:23:05 2023
Response via : Initial Calibration



Quantitation Report

08/07/2023

Data Path : C:\msdchem\1\data\S080523a\
Data File : s3H0541.D
Acq On : 06 Aug 2023 21:37
Operator : LOF
Sample : |WBN230710-34|ICAL|1|SVM|1|H-5
Misc : |MIX[E]
ALS Vial : 40 Sample Multiplier: 1

Quant Time: Aug 07 14:25:31 2023
Quant Method : C:\msdchem\1\data\S080523a\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:23:05 2023
Response via : Initial Calibration

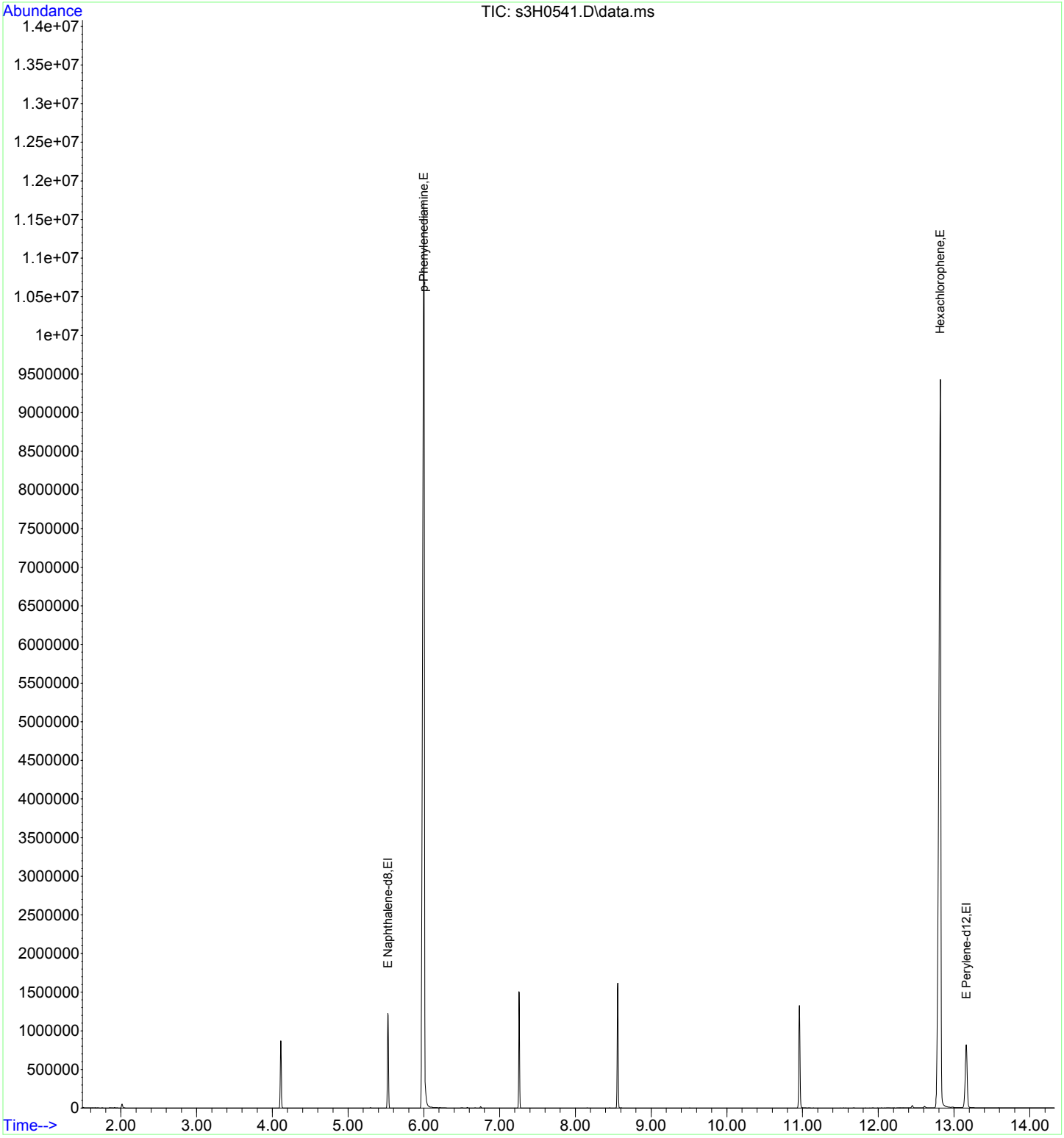
Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	Dev(Min)
Internal Standards								
1) A 1,4-Dichlorobenzene-d4	152	4.111	4.113	1.000	0m	40.00	ng/uL	0.00
22) A Naphthalene-d8	136	5.525	5.525	1.000	0m	40.00	ng/uL	0.00
39) A Acenaphthene-d10	164	7.257	7.258	1.000	0m	40.00	ng/uL	0.00
64) A Phenanthrene-d10	188	8.560	8.558	1.000	0m	40.00	ng/uL	0.00
80) A Chrysene-d12	240	10.959	10.965	1.000	0m	40.00	ng/uL	0.00
88) A Perylene-d12	264	13.162	13.147	1.000	0m	40.00	ng/uL	0.01
96) B 1,4-Dichlorobenzene-d4	152	4.111	4.112	1.000	0m	40.00	ng/uL	0.00
112) B Naphthalene-d8	136	5.525	5.527	1.000	0m	40.00	ng/uL	0.00
120) B Acenaphthene-d10	164	7.257	7.257	1.000	0m	40.00	ng/uL	0.00
129) B Phenanthrene-d10	188	8.560	8.562	1.000	0m	40.00	ng/uL	0.00
142) B Chrysene-d12	240	10.959	10.959	1.000	0m	40.00	ng/uL	0.00
148) B Perylene-d12	264	13.162	13.148	1.000	0m	40.00	ng/uL	0.01
151) J Naphthalene-d8	136	5.525	5.525	1.000	0m	40.00	ng/uL	0.00
153) J Phenanthrene-d10	188	8.560	8.559	1.000	0m	40.00	ng/uL	0.00
156) J Chrysene-d12	240	10.959	10.959	1.000	0m	40.00	ng/uL	0.00
159) D Naphthalene-d8	136	5.525	5.525	1.000	0m	40.00	ng/uL	0.00
161) D Acenaphthene-d10	164	7.257	7.256	1.000	0m	40.00	ng/uL	0.00
164) D Phenanthrene-d10	188	8.560	8.560	1.000	0m	40.00	ng/uL	0.00
171) D Chrysene-d12	240	10.959	10.960	1.000	0m	40.00	ng/uL	0.00
173) E Naphthalene-d8	136	5.525	5.525	1.000	475571	40.00	ng/uL	0.00
175) E Perylene-d12	264	13.162	13.158	1.000	541193	40.00	ng/uL	0.00
System Monitoring Compounds								Dev(Min)
5) 2-Fluorophenol	112	0.000	2.803	0.000	0	0.00	ng/uL	
8) Phenol-d5	99	0.000	3.680	0.000	0	0.00	ng/uL	
23) Nitrobenzene-d5	82	0.000	4.712	0.000	0	0.00	ng/uL	
44) 2-Fluorobiphenyl	172	0.000	6.627	0.000	0	0.00	ng/uL	
63) 2,4,6-Tribromophenol	330	0.000	7.959	0.000	0	0.00	ng/uL	
79) p-Terphenyl-d14	244	0.000	9.890	0.000	0	0.00	ng/uL	
Target Compounds	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	QValue
174) p-Phenylenediamine	108	6.000	5.997	1.086	5614043	780.47	ng/uL	95
176) Hexachlorophene	196	12.818	12.812	0.974	1489697	841.44	ng/uL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(A) = Over the calibration range (d) = deleted

Quantitation Report

Data Path : C:\msdchem\1\data\S080523a\
Data File : s3H0541.D
Acq On : 06 Aug 2023 21:37
Operator : LOF
Sample : |WBN230710-34|ICAL|1|SVM|1|H-5
Misc : |MIX[E]
ALS Vial : 40 Sample Multiplier: 1

Quant Time: Aug 07 14:25:31 2023
Quant Method : C:\msdchem\1\data\S080523a\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:23:05 2023
Response via : Initial Calibration



Quantitation Report

08/07/2023

Data Path : C:\msdchem\1\data\S080523a\
Data File : s3H0542.D
Acq On : 06 Aug 2023 21:56
Operator : LOF
Sample : |WBN230710-35|ICAL|1|SVM|1|H-6
Misc : |MIX[E]
ALS Vial : 41 Sample Multiplier: 1

Quant Time: Aug 07 14:25:34 2023
Quant Method : C:\msdchem\1\data\S080523a\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:23:05 2023
Response via : Initial Calibration

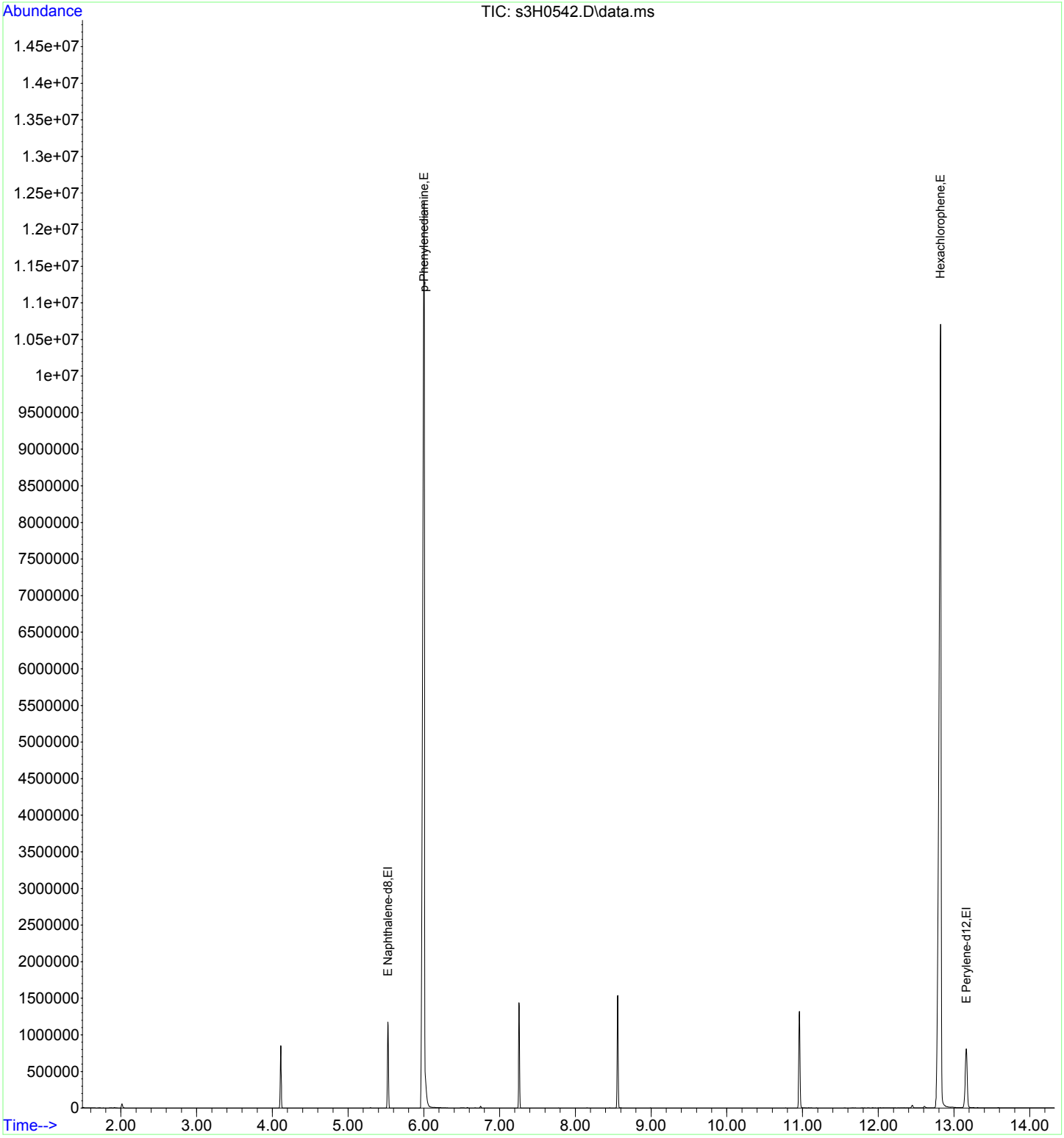
Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	Dev(Min)
Internal Standards								
1) A 1,4-Dichlorobenzene-d4	152	4.110	4.113	1.000	0m	40.00	ng/uL	0.00
22) A Naphthalene-d8	136	5.525	5.525	1.000	0m	40.00	ng/uL	0.00
39) A Acenaphthene-d10	164	7.257	7.258	1.000	0m	40.00	ng/uL	0.00
64) A Phenanthrene-d10	188	8.560	8.558	1.000	0m	40.00	ng/uL	0.00
80) A Chrysene-d12	240	10.959	10.965	1.000	0m	40.00	ng/uL	0.00
88) A Perylene-d12	264	13.162	13.147	1.000	0m	40.00	ng/uL	0.02
96) B 1,4-Dichlorobenzene-d4	152	4.110	4.112	1.000	0m	40.00	ng/uL	0.00
112) B Naphthalene-d8	136	5.525	5.527	1.000	0m	40.00	ng/uL	0.00
120) B Acenaphthene-d10	164	7.257	7.257	1.000	0m	40.00	ng/uL	0.00
129) B Phenanthrene-d10	188	8.560	8.562	1.000	0m	40.00	ng/uL	0.00
142) B Chrysene-d12	240	10.959	10.959	1.000	0m	40.00	ng/uL	0.00
148) B Perylene-d12	264	13.162	13.148	1.000	0m	40.00	ng/uL	0.01
151) J Naphthalene-d8	136	5.525	5.525	1.000	0m	40.00	ng/uL	0.00
153) J Phenanthrene-d10	188	8.560	8.559	1.000	0m	40.00	ng/uL	0.00
156) J Chrysene-d12	240	10.959	10.959	1.000	0m	40.00	ng/uL	0.00
159) D Naphthalene-d8	136	5.525	5.525	1.000	0m	40.00	ng/uL	0.00
161) D Acenaphthene-d10	164	7.257	7.256	1.000	0m	40.00	ng/uL	0.00
164) D Phenanthrene-d10	188	8.560	8.560	1.000	0m	40.00	ng/uL	0.00
171) D Chrysene-d12	240	10.959	10.960	1.000	0m	40.00	ng/uL	0.00
173) E Naphthalene-d8	136	5.525	5.525	1.000	454311	40.00	ng/uL	0.00
175) E Perylene-d12	264	13.162	13.158	1.000	531392	40.00	ng/uL	0.00
System Monitoring Compounds								Dev(Min)
5) 2-Fluorophenol	112	0.000	2.803	0.000	0	0.00	ng/uL	
8) Phenol-d5	99	0.000	3.680	0.000	0	0.00	ng/uL	
23) Nitrobenzene-d5	82	0.000	4.712	0.000	0	0.00	ng/uL	
44) 2-Fluorobiphenyl	172	0.000	6.627	0.000	0	0.00	ng/uL	
63) 2,4,6-Tribromophenol	330	0.000	7.959	0.000	0	0.00	ng/uL	
79) p-Terphenyl-d14	244	0.000	9.890	0.000	0	0.00	ng/uL	
Target Compounds	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	QValue
174) p-Phenylenediamine	108	6.003	5.997	1.086	6287118	914.94	ng/uL	95
176) Hexachlorophene	196	12.821	12.812	0.974	1758884	1011.81	ng/uL	99 A

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(A) = Over the calibration range (d) = deleted

Quantitation Report

Data Path : C:\msdchem\1\data\S080523a\
Data File : s3H0542.D
Acq On : 06 Aug 2023 21:56
Operator : LOF
Sample : |WBN230710-35|ICAL|1|SVM|1|H-6
Misc : |MIX[E]
ALS Vial : 41 Sample Multiplier: 1

Quant Time: Aug 07 14:25:34 2023
Quant Method : C:\msdchem\1\data\S080523a\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:23:05 2023
Response via : Initial Calibration



Quantitation Report

08/07/2023

Data Path : C:\msdchem\1\data\S080523a\
Data File : s3H0543.D
Acq On : 06 Aug 2023 22:14
Operator : LOF
Sample : |WBN230710-37|ICAL|1|SVM|1|H-7
Misc : |MIX[E]
ALS Vial : 42 Sample Multiplier: 1

Quant Time: Aug 07 14:25:37 2023
Quant Method : C:\msdchem\1\data\S080523a\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:23:05 2023
Response via : Initial Calibration

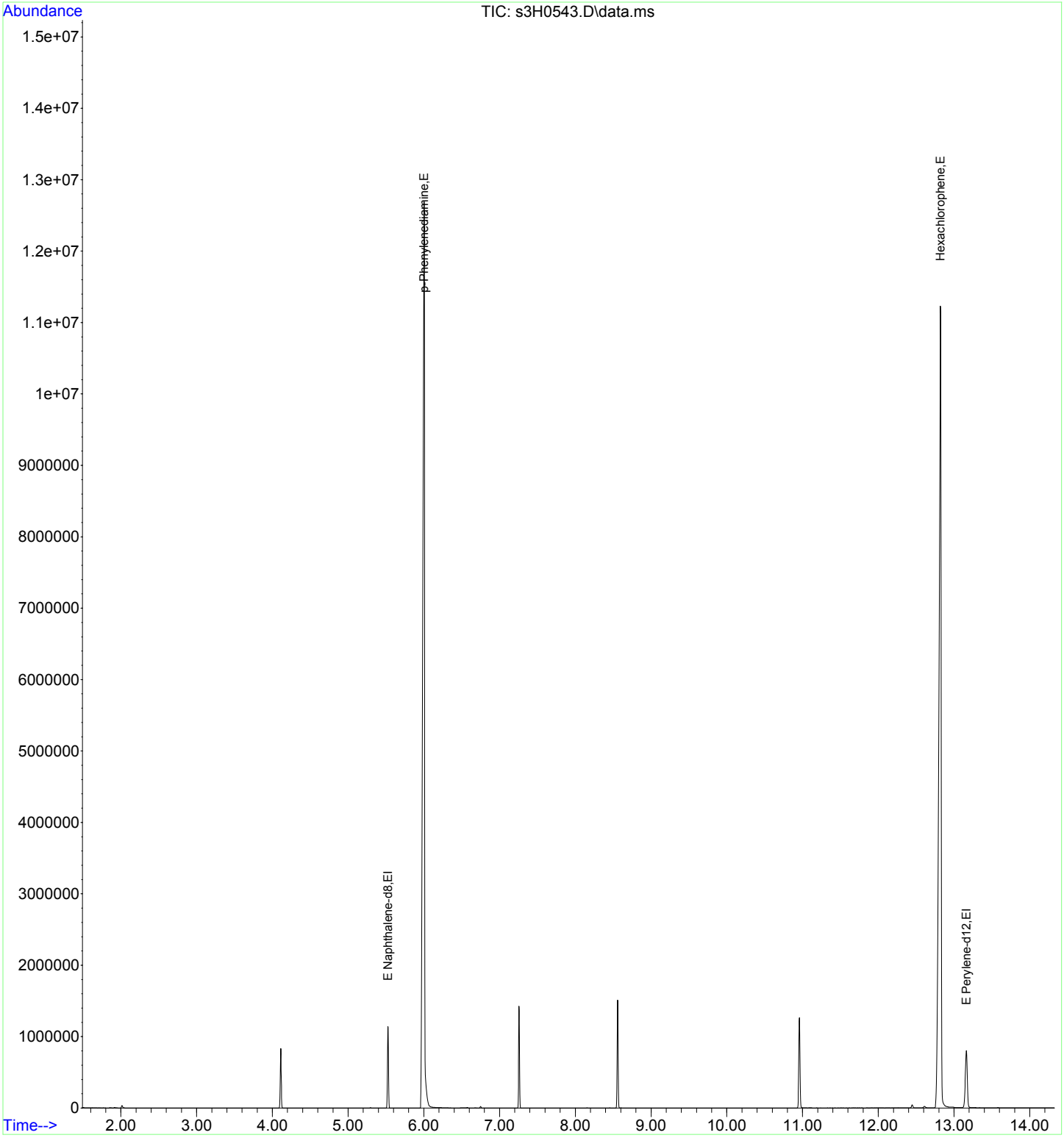
Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	Dev(Min)
Internal Standards								
1) A 1,4-Dichlorobenzene-d4	152	4.110	4.113	1.000	0m	40.00	ng/uL	0.00
22) A Naphthalene-d8	136	5.525	5.525	1.000	0m	40.00	ng/uL	0.00
39) A Acenaphthene-d10	164	7.257	7.258	1.000	0m	40.00	ng/uL	0.00
64) A Phenanthrene-d10	188	8.557	8.558	1.000	0m	40.00	ng/uL	0.00
80) A Chrysene-d12	240	10.959	10.965	1.000	0m	40.00	ng/uL	0.00
88) A Perylene-d12	264	13.162	13.147	1.000	0m	40.00	ng/uL	0.02
96) B 1,4-Dichlorobenzene-d4	152	4.110	4.112	1.000	0m	40.00	ng/uL	0.00
112) B Naphthalene-d8	136	5.525	5.527	1.000	0m	40.00	ng/uL	0.00
120) B Acenaphthene-d10	164	7.257	7.257	1.000	0m	40.00	ng/uL	0.00
129) B Phenanthrene-d10	188	8.557	8.562	1.000	0m	40.00	ng/uL	0.00
142) B Chrysene-d12	240	10.959	10.959	1.000	0m	40.00	ng/uL	0.00
148) B Perylene-d12	264	13.162	13.148	1.000	0m	40.00	ng/uL	0.01
151) J Naphthalene-d8	136	5.525	5.525	1.000	0m	40.00	ng/uL	0.00
153) J Phenanthrene-d10	188	8.557	8.559	1.000	0m	40.00	ng/uL	0.00
156) J Chrysene-d12	240	10.959	10.959	1.000	0m	40.00	ng/uL	0.00
159) D Naphthalene-d8	136	5.525	5.525	1.000	0m	40.00	ng/uL	0.00
161) D Acenaphthene-d10	164	7.257	7.256	1.000	0m	40.00	ng/uL	0.00
164) D Phenanthrene-d10	188	8.557	8.560	1.000	0m	40.00	ng/uL	0.00
171) D Chrysene-d12	240	10.959	10.960	1.000	0m	40.00	ng/uL	0.00
173) E Naphthalene-d8	136	5.525	5.525	1.000	446080	40.00	ng/uL	0.00
175) E Perylene-d12	264	13.162	13.158	1.000	517515	40.00	ng/uL	0.00
System Monitoring Compounds								Dev(Min)
5) 2-Fluorophenol	112	0.000	2.803	0.000	0	0.00	ng/uL	
8) Phenol-d5	99	0.000	3.680	0.000	0	0.00	ng/uL	
23) Nitrobenzene-d5	82	0.000	4.712	0.000	0	0.00	ng/uL	
44) 2-Fluorobiphenyl	172	0.000	6.627	0.000	0	0.00	ng/uL	
63) 2,4,6-Tribromophenol	330	0.000	7.959	0.000	0	0.00	ng/uL	
79) p-Terphenyl-d14	244	0.000	9.890	0.000	0	0.00	ng/uL	
Target Compounds	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	QValue
174) p-Phenylenediamine	108	6.003	5.997	1.086	6690815	991.66	ng/uL	95
176) Hexachlorophene	196	12.821	12.812	0.974	1922982	1135.88	ng/uL	99 A

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(A) = Over the calibration range (d) = deleted

Quantitation Report

Data Path : C:\msdchem\1\data\S080523a\
Data File : s3H0543.D
Acq On : 06 Aug 2023 22:14
Operator : LOF
Sample : |WBN230710-37|ICAL|1|SVM|1|H-7
Misc : |MIX[E]
ALS Vial : 42 Sample Multiplier: 1

Quant Time: Aug 07 14:25:37 2023
Quant Method : C:\msdchem\1\data\S080523a\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:23:05 2023
Response via : Initial Calibration



Continuing Calibration Summary

Client SDG: 631221

Instrument ID: MSD3.I **Injection Date:** 06-AUG-23 22:33

Data File: S080523a\s3H0544.D **Init. Cal. Date(s)** 05-AUG-23 10:57 - 06-AUG-23 22:14

Lab Sample ID WBN230602-37.2 **Method:** S080523a\MSD3_8270_080523a.m

Quant Type ISTD **Method Update:** 07-AUG-23 14:34

Compound	AVERF / Amount	RF CCV	Nominal CCV	Min RF	RF Q	%D / %Drift	Max	Drift Q	Curve Type
Hexachlorophene	0.1309	0.15243		.01		16.44767	20		Averaged

Quantitation Report

08/07/2023

Data Path : C:\msdchem\1\data\S080523a\
Data File : s3H0544.D
Acq On : 06 Aug 2023 22:33
Operator : LOF
Sample : |WBN230602-37.2|ICV|1|SVM|1|H-ICV
Misc : |MIX[E]
ALS Vial : 43 Sample Multiplier: 1

Quant Time: Aug 07 14:39:09 2023
Quant Method : C:\msdchem\1\data\S080523a\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:34:09 2023
Response via : Initial Calibration

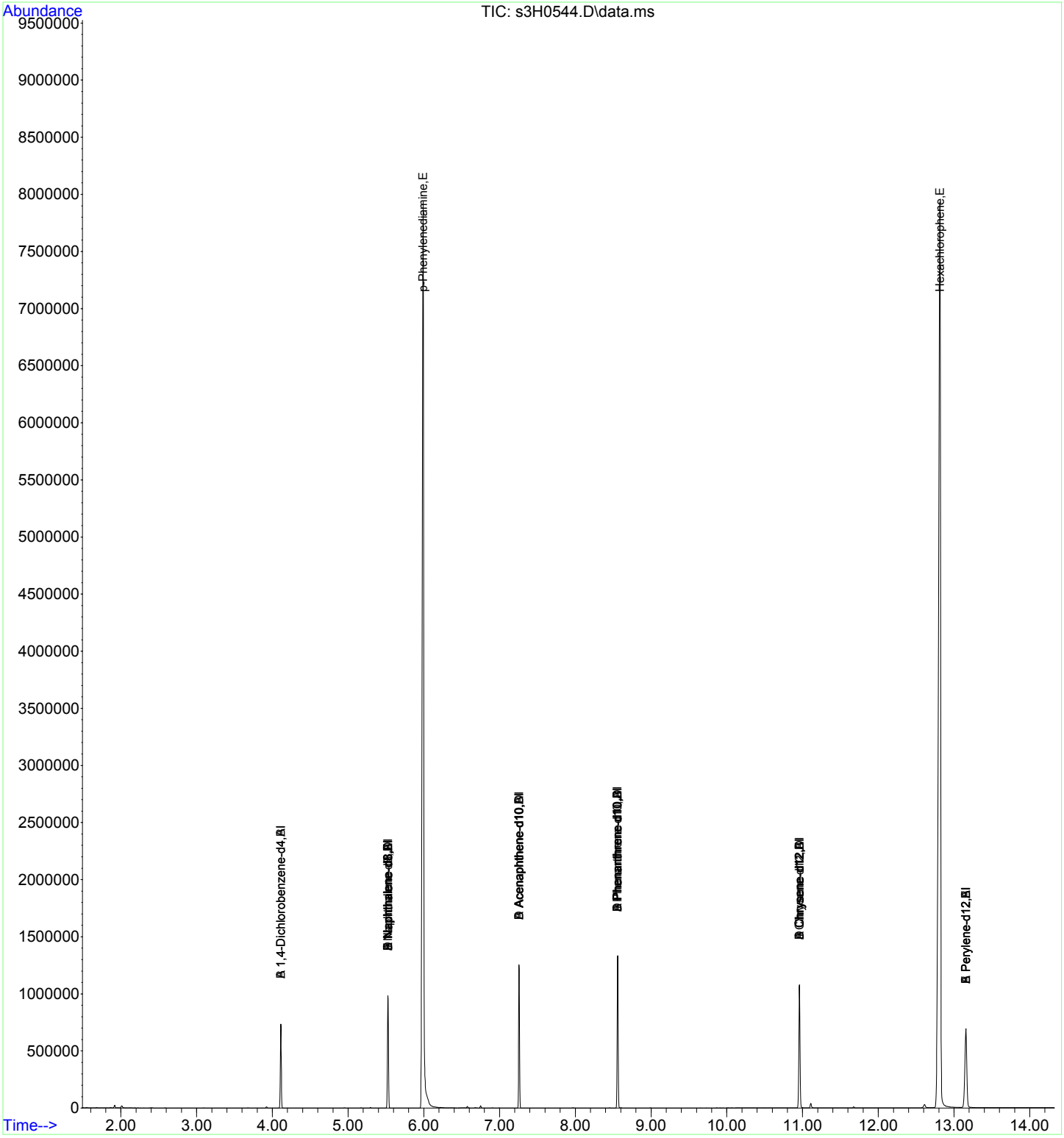
Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	Dev(Min)
Internal Standards								
1) A 1,4-Dichlorobenzene-d4	152	4.110	4.113	1.000	97180	40.00	ng/uL	0.00
22) A Naphthalene-d8	136	5.525	5.525	1.000	383353	40.00	ng/uL	0.00
39) A Acenaphthene-d10	164	7.257	7.258	1.000	198769	40.00	ng/uL	0.00
64) A Phenanthrene-d10	188	8.557	8.558	1.000	413280	40.00	ng/uL	0.00
80) A Chrysene-d12	240	10.960	10.965	1.000	421110	40.00	ng/uL	0.00
88) A Perylene-d12	264	13.156	13.147	1.000	457665	40.00	ng/uL	0.00
96) B 1,4-Dichlorobenzene-d4	152	4.110	4.112	1.000	97180	40.00	ng/uL	0.00
112) B Naphthalene-d8	136	5.525	5.527	1.000	383353	40.00	ng/uL	0.00
120) B Acenaphthene-d10	164	7.257	7.257	1.000	198769	40.00	ng/uL	0.00
129) B Phenanthrene-d10	188	8.557	8.562	1.000	413280	40.00	ng/uL	0.00
142) B Chrysene-d12	240	10.960	10.959	1.000	421110	40.00	ng/uL	0.00
148) B Perylene-d12	264	13.156	13.148	1.000	457665	40.00	ng/uL	0.00
151) J Naphthalene-d8	136	5.525	5.525	1.000	383353	40.00	ng/uL	0.00
153) J Phenanthrene-d10	188	8.557	8.559	1.000	413280	40.00	ng/uL	0.00
156) J Chrysene-d12	240	10.960	10.959	1.000	421110	40.00	ng/uL	0.00
159) D Naphthalene-d8	136	5.525	5.525	1.000	383353	40.00	ng/uL	0.00
161) D Acenaphthene-d10	164	7.257	7.256	1.000	198769	40.00	ng/uL	0.00
164) D Phenanthrene-d10	188	8.557	8.560	1.000	413280	40.00	ng/uL	0.00
171) D Chrysene-d12	240	10.960	10.960	1.000	421110	40.00	ng/uL	0.00
173) E Naphthalene-d8	136	5.525	5.525	1.000	383353	40.00	ng/uL	0.00
175) E Perylene-d12	264	13.156	13.158	1.000	457665	40.00	ng/uL	0.00
System Monitoring Compounds								Dev(Min)
5) 2-Fluorophenol	112	0.000	2.803	0.000	0	0.00	ng/uL	
8) Phenol-d5	99	0.000	3.680	0.000	0	0.00	ng/uL	
23) Nitrobenzene-d5	82	0.000	4.712	0.000	0	0.00	ng/uL	
44) 2-Fluorobiphenyl	172	0.000	6.627	0.000	0	0.00	ng/uL	
63) 2,4,6-Tribromophenol	330	0.000	7.959	0.000	0	0.00	ng/uL	
79) p-Terphenyl-d14	244	0.000	9.890	0.000	0	0.00	ng/uL	
Target Compounds	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	QValue
174) p-Phenylenediamine	108	5.991	5.997	1.084	3340002	576.03	ng/uL	95
176) Hexachlorophene	196	12.813	12.812	0.974	1220809	815.41	ng/uL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(A) = Over the calibration range (d) = deleted

Quantitation Report

Data Path : C:\msdchem\1\data\S080523a\
Data File : s3H0544.D
Acq On : 06 Aug 2023 22:33
Operator : LOF
Sample : |WBN230602-37.2|ICV|1|SVM|1|H-ICV
Misc : |MIX[E]
ALS Vial : 43 Sample Multiplier: 1

Quant Time: Aug 07 14:39:09 2023
Quant Method : C:\msdchem\1\data\S080523a\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:34:09 2023
Response via : Initial Calibration



Continuing Calibration Summary

Client SDG: 631221

Instrument ID: MSD3.I **Injection Date:** 09-AUG-23 16:29

Data File: S080923.S\s3H0901.D **Init. Cal. Date(s)** 05-AUG-23 10:57 - 06-AUG-23 22:14

Lab Sample ID WBN230731-04.11 **Method:** S080923.S\MSD3_8270_080523a.m

Quant Type ISTD **Method Update:** 07-AUG-23 14:34

	Compound	AVERF / Amount	RF CCV	Nominal CCV	Min RF	RF Q	%D / %Drift	Max	Drift Q	Curve Type
S	2-Fluorophenol	1.3643	1.32443		.01		-2.92238	20		Averaged
S	Phenol-d5	1.6375	1.60762		.01		-1.82473	20		Averaged
S	Nitrobenzene-d5	0.3865	0.38419		.01		-0.59767	20		Averaged
S	2-Fluorobiphenyl	1.596	1.56822		.01		-1.7406	20		Averaged
S	2,4,6-Tribromophenol	0.3846	0.36344		.01		-5.50182	20		Averaged
S	p-Terphenyl-d14	1.0914	1.02812		.01		-5.79806	20		Averaged
	Phenol	1.7656	1.71141		.8		-3.06921	20		Averaged
	1,4-Dichlorobenzene	1.6928	1.65251		.01		-2.38008	20		Averaged
	N-Nitrosodipropylamine	1.0463	1.04745		.05		0.10991	20		Averaged
	2-Nitrophenol	0.1762	0.16806		.1		-4.61975	20		Averaged
	2,4-Dichlorophenol	0.3101	0.29302		.2		-5.5079	20		Averaged
	Hexachlorobutadiene	0.2131	0.20166		.01		-5.36837	20		Averaged
	4-Chloro-3-methylphenol	0.3102	0.29825		.2		-3.85235	20		Averaged
	Hexachlorocyclopentadiene	0.4561	0.44699		.05		-1.99737	20		Averaged
	2,4,6-Trichlorophenol	0.4832	0.45322		.2		-6.20447	20		Averaged
	Dimethylphthalate	1.5767	1.52828		.01		-3.07097	20		Averaged
	Acenaphthene	1.3652	1.29889		.9		-4.85716	20		Averaged
	2,4-Dinitrophenol	0.1991	0.17395		.05		-12.63184	20		Averaged
	4-Nitrophenol	0.2297	0.22423		.05		-2.38137	20		Averaged
	Diphenylamine	0.6575	0.62526		.01		-4.90342	20		Averaged
	Pentachlorophenol	0.1809	0.16813		.05		-7.05915	20		Averaged
	Fluoranthene	1.2694	1.17683		.6		-7.29242	20		Averaged
	Di-n-octylphthalate	1.0647	1.04665		.01		-1.69531	20		Averaged
	Benzo(a)pyrene	0.9757	0.95109		.7		-2.52229	20		Averaged

Quantitation Report

08/10/2023

Data Path : C:\msdchem\1\data\S080923.S\
Data File : s3H0901.D
Acq On : 09 Aug 2023 16:29
Operator : MU1
Sample : |WBN230731-04.11|CCV|1|SVM|1|M-4
Misc : |MIX[A]
ALS Vial : 1 Sample Multiplier: 1

08/10/2023

Quant Time: Aug 09 16:51:24 2023
Quant Method : C:\msdchem\1\data\S080923.S\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:34:09 2023
Response via : Initial Calibration

Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	Dev(Min)
Internal Standards								
1) A 1,4-Dichlorobenzene-d4	152	4.102	4.113	1.000	105859	40.00	ng/uL	-0.01
22) A Naphthalene-d8	136	5.525	5.525	1.000	432066	40.00	ng/uL	0.00
39) A Acenaphthene-d10	164	7.258	7.258	1.000	217101	40.00	ng/uL	0.00
64) A Phenanthrene-d10	188	8.558	8.558	1.000	450178	40.00	ng/uL	0.00
80) A Chrysene-d12	240	10.959	10.965	1.000	501002	40.00	ng/uL	0.00
88) A Perylene-d12	264	13.147	13.147	1.000	529581	40.00	ng/uL	0.00
96) B 1,4-Dichlorobenzene-d4	152	4.102	4.112	1.000	105859	40.00	ng/uL	0.00
112) B Naphthalene-d8	136	5.525	5.527	1.000	432066	40.00	ng/uL	0.00
120) B Acenaphthene-d10	164	7.258	7.257	1.000	217101	40.00	ng/uL	0.00
129) B Phenanthrene-d10	188	8.558	8.562	1.000	450178	40.00	ng/uL	0.00
142) B Chrysene-d12	240	10.959	10.959	1.000	501002	40.00	ng/uL	0.00
148) B Perylene-d12	264	13.147	13.148	1.000	529581	40.00	ng/uL	0.00
151) J Naphthalene-d8	136	5.525	5.525	1.000	432066	40.00	ng/uL	0.00
153) J Phenanthrene-d10	188	8.558	8.559	1.000	450178	40.00	ng/uL	0.00
156) J Chrysene-d12	240	10.959	10.959	1.000	501002	40.00	ng/uL	0.00
159) D Naphthalene-d8	136	5.525	5.525	1.000	432066	40.00	ng/uL	0.00
161) D Acenaphthene-d10	164	7.258	7.256	1.000	217101	40.00	ng/uL	0.00
164) D Phenanthrene-d10	188	8.558	8.560	1.000	450178	40.00	ng/uL	0.00
171) D Chrysene-d12	240	10.959	10.960	1.000	501002	40.00	ng/uL	0.00
173) E Naphthalene-d8	136	5.525	5.525	1.000	432066	40.00	ng/uL	0.00
175) E Perylene-d12	264	13.147	13.158	1.000	529581	40.00	ng/uL	-0.01
System Monitoring Compounds								Dev(Min)
5) 2-Fluorophenol	112	2.797	2.803	0.682	140203	38.83	ng/uL	0.00
8) Phenol-d5	99	3.669	3.680	0.894	170181	39.27	ng/uL	-0.01
23) Nitrobenzene-d5	82	4.707	4.712	0.852	165997	39.76	ng/uL	0.00
44) 2-Fluorobiphenyl	172	6.627	6.627	0.913	340463	39.30	ng/uL	0.00
63) 2,4,6-Tribromophenol	330	7.959	7.959	1.097	78904	37.80	ng/uL	0.00
79) p-Terphenyl-d14	244	9.890	9.890	1.156	462837	37.68	ng/uL	0.00
Target Compounds	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	QValue
2) 2-Ethoxyethanol	59	1.604	1.610	0.391	105221	39.66	ng/uL	89
3) N-Methyl-N-nitrosometh...	74	1.786	1.797	0.435	93625	39.54	ng/uL#	60
4) Pyridine	79	1.834	1.840	0.447	157936	38.46	ng/uL#	65
6) p-Benzoquinone	54	3.268	3.279	0.797	108366	41.88	ng/uL	75
7) Aniline	93	3.749	3.760	0.914	209393	39.83	ng/uL	92
9) Phenol	94	3.685	3.696	0.898	181168	38.77	ng/uL	89
10) bis(2-Chloroethyl) ether	93	3.808	3.819	0.928	149166	39.29	ng/uL	86
11) 2-Chlorophenol	128	3.872	3.878	0.944	147942	38.78	ng/uL	93
12) n-Decane	43	3.915	3.926	0.954	233082	41.61	ng/uL	87
13) 1,3-Dichlorobenzene	146	4.043	4.049	0.986	170671	39.00	ng/uL	99
14) 1,4-Dichlorobenzene	146	4.124	4.129	1.005	174933	39.05	ng/uL	98
15) 1,2-Dichlorobenzene	146	4.284	4.295	1.044	165021	38.78	ng/uL	99
16) bis(2-Chloro-1-methyle...	45	4.391	4.397	1.070	296263	40.83	ng/uL	86
17) Benzyl alcohol	108	4.236	4.242	1.033	97228	39.23	ng/uL	96
18) o-Cresol	107	4.343	4.348	1.059	120728	38.89	ng/uL	98
19) m,p-Cresols	108	4.514	4.525	1.100	140822	38.79	ng/uL	99
20) N-Nitrosodipropylamine	70	4.536	4.541	1.106	110882	40.04	ng/uL	66
21) Hexachloroethane	117	4.664	4.669	1.137	68707	39.44	ng/uL	94
24) Nitrobenzene	77	4.728	4.739	0.856	171200	39.73	ng/uL	97
25) Isophorone	82	5.001	5.006	0.905	290774	39.19	ng/uL	99
26) 2-Nitrophenol	139	5.092	5.097	0.922	72615	38.15	ng/uL	91
27) 2,4-Dimethylphenol	122	5.129	5.135	0.928	106403	38.22	ng/uL	97
28) bis(2-Chloroethoxy)met...	93	5.252	5.258	0.951	187428	38.61	ng/uL	100
29) 2,4-Dichlorophenol	162	5.359	5.359	0.970	126604	37.80	ng/uL	99

Quantitation Report

Data Path : C:\msdchem\1\data\S080923.S\
Data File : s3H0901.D
Acq On : 09 Aug 2023 16:29
Operator : MU1
Sample : |WBN230731-04.11|CCV|1|SVM|1|M-4
Misc : |MIX[A]
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 09 16:51:24 2023
Quant Method : C:\msdchem\1\data\S080923.S\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:34:09 2023
Response via : Initial Calibration

Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	
30) Benzoic acid	105	5.199	5.226	0.941	97739	35.79	ng/uL	97
31) 1,2,4-Trichlorobenzene	180	5.461	5.466	0.988	144652	38.30	ng/uL	96
32) alpha-Terpineol	59	5.557	5.557	1.006	164837	39.50	ng/uL	83
33) Naphthalene	128	5.546	5.552	1.004	437506	36.88	ng/uL	100
34) 4-Chloroaniline	127	5.600	5.605	1.014	181378	38.61	ng/uL	95
35) Hexachlorobutadiene	225	5.680	5.686	1.028	87131	37.85	ng/uL	100
36) 4-Chloro-3-methylphenol	107	6.097	6.103	1.104	128865	38.46	ng/uL	97
37) 2-Methylnaphthalene	142	6.268	6.269	1.135	278545	36.74	ng/uL	99
38) 1-Methylnaphthalene	142	6.365	6.365	1.152	272845	37.06	ng/uL	98
40) Hexachlorocyclopentadiene	237	6.424	6.424	0.885	97043	39.20	ng/uL	98
41) 2,3-Dichloroaniline	161	6.541	6.541	0.901	163036	39.38	ng/uL	100
42) 2,4,6-Trichlorophenol	196	6.541	6.541	0.901	98394	37.52	ng/uL	100
43) 2,4,5-Trichlorophenol	196	6.568	6.568	0.905	104002	39.30	ng/uL	99
45) 2-Chloronaphthalene	162	6.739	6.739	0.929	292169	38.20	ng/uL	97
46) o-Nitroaniline	65	6.830	6.836	0.941	91042	40.41	ng/uL	87
47) 1,4-Dinitrobenzene	168	6.964	6.964	0.959	40552	39.19	ng/uL	97
48) m-Nitroaniline	138	7.210	7.215	0.993	80870	39.90	ng/uL	99
49) Dimethylphthalate	163	7.007	7.007	0.965	331792	38.77	ng/uL	99
50) m-Dinitrobenzene	168	7.028	7.034	0.968	47657	39.94	ng/uL#	74
51) 2,6-Dinitrotoluene	165	7.060	7.060	0.973	70262	39.12	ng/uL	91
52) 2,4-Dinitrotoluene	165	7.424	7.424	1.023	94203	39.07	ng/uL	93
53) Acenaphthylene	152	7.130	7.130	0.982	453017	38.64	ng/uL	99
54) Acenaphthene	154	7.290	7.290	1.004	281991	38.06	ng/uL	98
55) 2,4-Dinitrophenol	184	7.306	7.306	1.007	37764	34.95	ng/uL	97
56) Dibenzofuran	168	7.445	7.445	1.026	408036	39.31	ng/uL	99
57) 2,3,4,6-Tetrachlorophenol	232	7.509	7.510	1.035	90903	37.96	ng/uL	98
58) Diethylphthalate	149	7.638	7.643	1.052	341166	38.89	ng/uL	100
59) 4-Nitrophenol	109	7.344	7.349	1.012	48680	39.05	ng/uL	91
60) Fluorene	166	7.750	7.750	1.068	333669	38.15	ng/uL	99
61) 4-Chlorophenylphenylether	204	7.745	7.745	1.067	161710	38.74	ng/uL	97
62) p-Nitroaniline	138	7.750	7.756	1.068	81712	39.70	ng/uL	91
65) 2-Methyl-4,6-dinitroph...	198	7.782	7.782	0.909	49426	36.86	ng/uL	84
66) Diphenylamine	169	7.846	7.847	0.917	281479	38.04	ng/uL	94
67) 1,2-Diphenylhydrazine	77	7.884	7.884	0.921	358247	39.50	ng/uL	98
68) 4-Bromophenylphenylether	248	8.173	8.173	0.955	108097	37.95	ng/uL	94
69) Hexachlorobenzene	284	8.226	8.226	0.961	142636	38.06	ng/uL	100
70) Pentachlorophenol	266	8.387	8.387	0.980	75689	37.19	ng/uL	99
71) n-Octadecane	57	8.445	8.446	0.987	287873	39.20	ng/uL	85
72) Dinoseb	211	8.536	8.536	0.997	72464	36.16	ng/uL	98
73) Phenanthrene	178	8.579	8.579	1.002	492408	36.79	ng/uL	99
74) Anthracene	178	8.622	8.622	1.008	501189	38.29	ng/uL	99
75) Carbazole	167	8.756	8.756	1.023	454865	38.82	ng/uL	98
76) Di-n-butylphthalate	149	9.034	9.029	1.056	553243	38.72	ng/uL	99
77) Fluoranthene	202	9.585	9.585	1.120	529782	37.08	ng/uL	98
78) Pyrene	202	9.777	9.777	1.143	567822	37.58	ng/uL	96
81) Butylbenzylphthalate	149	10.323	10.323	0.942	219478	38.99	ng/uL	99
82) bis(2-Ethylhexyl)phtha...	149	10.943	10.943	0.999	371660	40.12	ng/uL	100
83) Benzo(a)anthracene	228	10.949	10.949	0.999	600394	37.93	ng/uL	99
84) Chrysene	228	10.991	10.997	1.003	549425	37.97	ng/uL	97
85) Methoxychlor	227	10.847	10.847	0.990	324835	38.01	ng/uL	99
86) Methylenebis(2-chloroa...	231	10.906	10.906	0.995	104098	37.42	ng/uL	95
87) Di-n-octylphthalate	149	11.847	11.847	1.081	524373	39.32	ng/uL	89
89) Benzo(b)fluoranthene	252	12.484	12.484	0.950	590412	38.27	ng/uL	96
90) Benzo(k)fluoranthene	252	12.526	12.532	0.953	561327	38.66	ng/uL	95
91) Benzo(a)pyrene	252	13.045	13.051	0.992	503677	38.99	ng/uL	96
92) Indeno(1,2,3-cd)pyrene	276	15.276	15.286	1.162	566131	39.74	ng/uL	92
93) Dibenzo(a,h)anthracene	278	15.340	15.345	1.167	600514	38.39	ng/uL	95

Quantitation Report

Data Path : C:\msdchem\1\data\S080923.S\
Data File : s3H0901.D
Acq On : 09 Aug 2023 16:29
Operator : MU1
Sample : |WBN230731-04.11|CCV|1|SVM|1|M-4
Misc : |MIX[A]
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 09 16:51:24 2023
Quant Method : C:\msdchem\1\data\S080923.S\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:34:09 2023
Response via : Initial Calibration

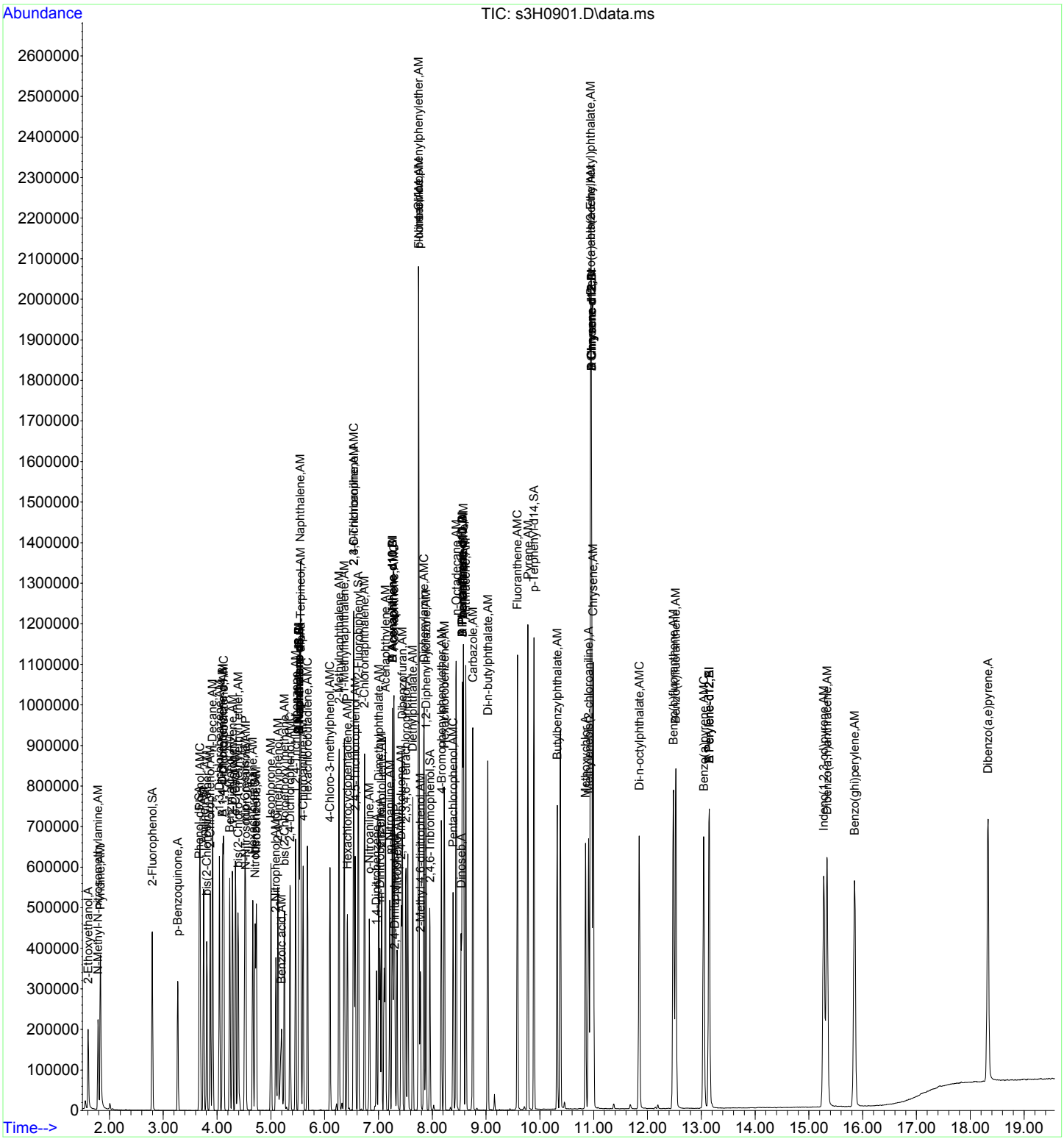
Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	
94) Benzo(ghi)perylene	276	15.848	15.864	1.205	587416	38.25	ng/uL	93
95) Dibenzo(a,e)pyrene	302	18.330	18.335	1.394	551303	39.09	ng/uL	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(A) = Over the calibration range (d) = deleted

Quantitation Report

Data Path : C:\msdchem\1\data\S080923.S\
Data File : s3H0901.D
Acq On : 09 Aug 2023 16:29
Operator : MU1
Sample : |WBN230731-04.11|CCV|1|SVM|1|M-4
Misc : |MIX[A]
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 09 16:51:24 2023
Quant Method : C:\msdchem\1\data\S080923.S\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:34:09 2023
Response via : Initial Calibration



Continuing Calibration Summary

Client SDG: 631221

Instrument ID: MSD3.I **Injection Date:** 09-AUG-23 17:54

Data File: S080923.S\s3H0905.D **Init. Cal. Date(s)** 05-AUG-23 10:57 - 06-AUG-23 22:14

Lab Sample ID WBN230710-33.2 **Method:** S080923.S\MSD3_8270_080523a.m

Quant Type ISTD **Method Update:** 07-AUG-23 14:34

Compound	AVERF / Amount	RF CCV	Nominal CCV	Min RF	RF Q	%D / %Drift	Max	Drift Q	Curve Type
Hexachlorophene	0.1309	0.11858		.01		-9.41176	20		Averaged

Quantitation Report

08/10/2023

Data Path : C:\msdchem\1\data\S080923.S\
Data File : s3H0905.D
Acq On : 09 Aug 2023 17:54
Operator : MU1
Sample : |WBN230710-33.2|CCV|1|SVM|1|H-4
Misc : |MIX[E]
ALS Vial : 5 Sample Multiplier: 1

08/10/2023

Quant Time: Aug 10 09:15:14 2023
Quant Method : C:\msdchem\1\data\S080923.S\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:34:09 2023
Response via : Initial Calibration

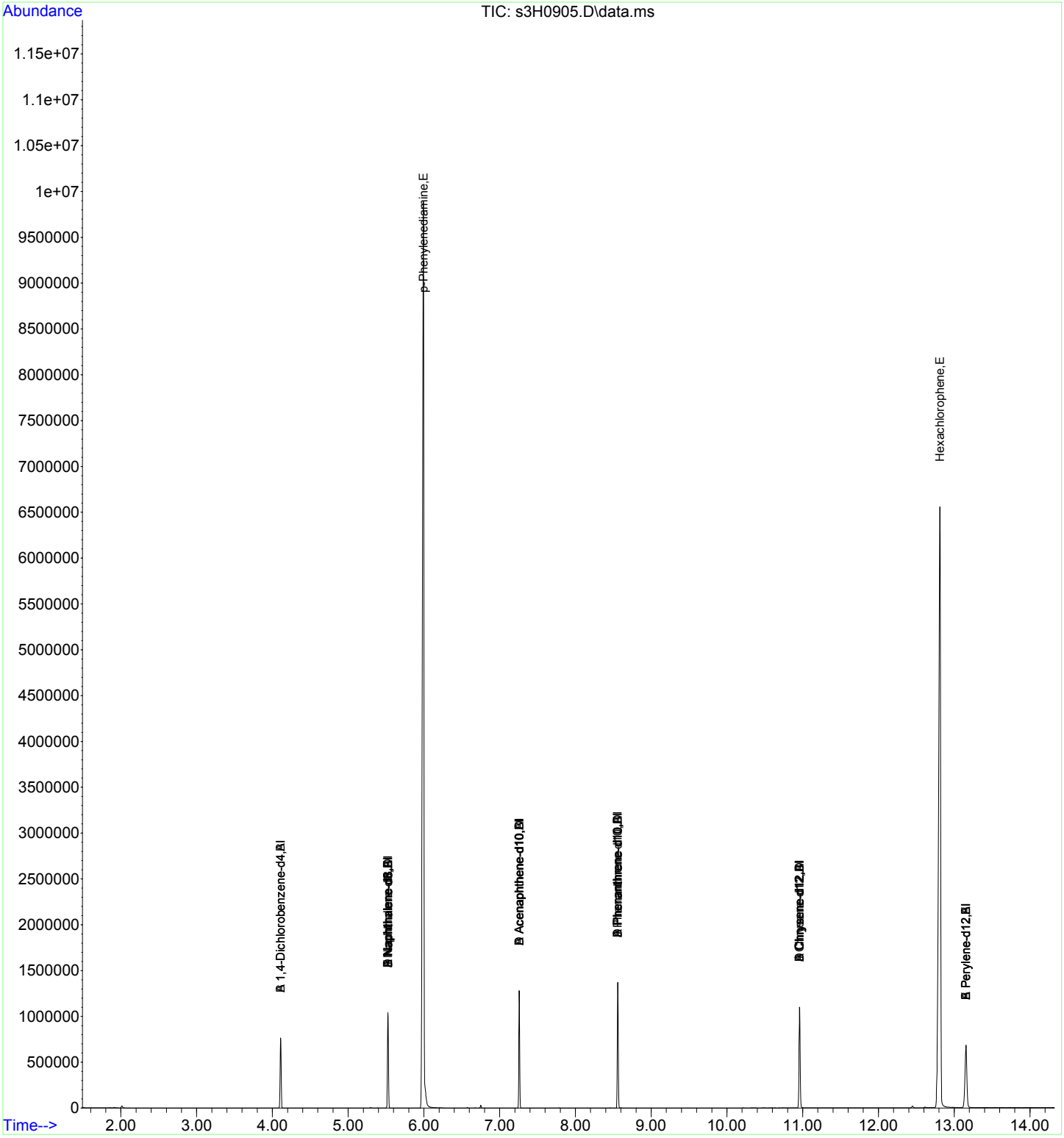
Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	Dev(Min)
Internal Standards								
1) A 1,4-Dichlorobenzene-d4	152	4.107	4.113	1.000	100757	40.00	ng/uL	0.00
22) A Naphthalene-d8	136	5.525	5.525	1.000	403317	40.00	ng/uL	0.00
39) A Acenaphthene-d10	164	7.259	7.258	1.000	201949	40.00	ng/uL	0.00
64) A Phenanthrene-d10	188	8.559	8.558	1.000	409061	40.00	ng/uL	0.00
80) A Chrysene-d12	240	10.958	10.965	1.000	411996	40.00	ng/uL	0.00
88) A Perylene-d12	264	13.154	13.147	1.000	446913	40.00	ng/uL	0.00
96) B 1,4-Dichlorobenzene-d4	152	4.107	4.112	1.000	100757	40.00	ng/uL	0.00
112) B Naphthalene-d8	136	5.525	5.527	1.000	403317	40.00	ng/uL	0.00
120) B Acenaphthene-d10	164	7.259	7.257	1.000	201949	40.00	ng/uL	0.00
129) B Phenanthrene-d10	188	8.559	8.562	1.000	409061	40.00	ng/uL	0.00
142) B Chrysene-d12	240	10.958	10.959	1.000	411996	40.00	ng/uL	0.00
148) B Perylene-d12	264	13.154	13.148	1.000	446913	40.00	ng/uL	0.00
151) J Naphthalene-d8	136	5.525	5.525	1.000	403317	40.00	ng/uL	0.00
153) J Phenanthrene-d10	188	8.559	8.559	1.000	409061	40.00	ng/uL	0.00
156) J Chrysene-d12	240	10.958	10.959	1.000	411996	40.00	ng/uL	0.00
159) D Naphthalene-d8	136	5.525	5.525	1.000	403317	40.00	ng/uL	0.00
161) D Acenaphthene-d10	164	7.259	7.256	1.000	201949	40.00	ng/uL	0.00
164) D Phenanthrene-d10	188	8.559	8.560	1.000	409061	40.00	ng/uL	0.00
171) D Chrysene-d12	240	10.958	10.960	1.000	411996	40.00	ng/uL	0.00
173) E Naphthalene-d8	136	5.525	5.525	1.000	403317	40.00	ng/uL	0.00
175) E Perylene-d12	264	13.154	13.158	1.000	446913	40.00	ng/uL	0.00
System Monitoring Compounds								Dev(Min)
5) 2-Fluorophenol	112	0.000	2.803	0.000	0	0.00	ng/uL	
8) Phenol-d5	99	0.000	3.680	0.000	0	0.00	ng/uL	
23) Nitrobenzene-d5	82	0.000	4.712	0.000	0	0.00	ng/uL	
44) 2-Fluorobiphenyl	172	0.000	6.627	0.000	0	0.00	ng/uL	
63) 2,4,6-Tribromophenol	330	0.000	7.959	0.000	0	0.00	ng/uL	
79) p-Terphenyl-d14	244	0.000	9.890	0.000	0	0.00	ng/uL	
Target Compounds	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	QValue
174) p-Phenylenediamine	108	5.993	5.997	1.085	3998954	655.53	ng/uL	95
176) Hexachlorophene	196	12.810	12.812	0.974	927415	634.35	ng/uL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(A) = Over the calibration range (d) = deleted

Quantitation Report

Data Path : C:\msdchem\1\data\S080923.S\
Data File : s3H0905.D
Acq On : 09 Aug 2023 17:54
Operator : MU1
Sample : |WBN230710-33.2|CCV|1|SVM|1|H-4
Misc : |MIX[E]
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 10 09:15:14 2023
Quant Method : C:\msdchem\1\data\S080923.S\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:34:09 2023
Response via : Initial Calibration



Calibration History Report MSD4
GEL Laboratories, LLC

08/04/2023

Method File : C:\msdchem\1\data\S080323\MSD4_8270_071123.m
Last Update : Thu Jul 13 09:54:56 2023
Integrator : (RTE Integrator) Response via : Initial Calibration

Cal Lvl:1 Amt:1.00 Last Updated with: C:\msdchem\1\data\S071123ICAL\s4G1102.D

08/04/2023

Injection Date	Mix	Calibration File
11 Jul 2023 17:37	A	C:\msdchem\1\data\S071123ICAL\s4G1102.D

Cal Lvl:2 Amt:10.00 Last Updated with: C:\msdchem\1\data\S071123ICAL\s4G1138.D

Injection Date	Mix	Calibration File
11 Jul 2023 18:02	A	C:\msdchem\1\data\S071123ICAL\s4G1103.D
12 Jul 2023 09:50	B	C:\msdchem\1\data\S071123ICAL\s4G1112.D
12 Jul 2023 13:25	J	C:\msdchem\1\data\S071123ICAL\s4G1122.D
12 Jul 2023 15:53	D	C:\msdchem\1\data\S071123ICAL\s4G1130.D
12 Jul 2023 18:21	E	C:\msdchem\1\data\S071123ICAL\s4G1138.D

Cal Lvl:3 Amt:20.00 Last Updated with: C:\msdchem\1\data\S071123ICAL\s4G1139.D

Injection Date	Mix	Calibration File
11 Jul 2023 18:26	A	C:\msdchem\1\data\S071123ICAL\s4G1104.D
12 Jul 2023 10:12	B	C:\msdchem\1\data\S071123ICAL\s4G1113.D
12 Jul 2023 13:44	J	C:\msdchem\1\data\S071123ICAL\s4G1123.D
12 Jul 2023 16:12	D	C:\msdchem\1\data\S071123ICAL\s4G1131.D
12 Jul 2023 18:40	E	C:\msdchem\1\data\S071123ICAL\s4G1139.D

Cal Lvl:4 Amt:40.00 Last Updated with: C:\msdchem\1\data\S071123ICAL\s4G1140.D

Injection Date	Mix	Calibration File
11 Jul 2023 18:51	A	C:\msdchem\1\data\S071123ICAL\s4G1105.D
12 Jul 2023 10:55	B	C:\msdchem\1\data\S071123ICAL\s4G1115.D
12 Jul 2023 14:02	J	C:\msdchem\1\data\S071123ICAL\s4G1124.D
12 Jul 2023 16:30	D	C:\msdchem\1\data\S071123ICAL\s4G1132.D
12 Jul 2023 18:58	E	C:\msdchem\1\data\S071123ICAL\s4G1140.D

Cal Lvl:5 Amt:50.00 Last Updated with: C:\msdchem\1\data\S071123ICAL\s4G1141.D

Injection Date	Mix	Calibration File
11 Jul 2023 19:15	A	C:\msdchem\1\data\S071123ICAL\s4G1106.D
12 Jul 2023 11:16	B	C:\msdchem\1\data\S071123ICAL\s4G1116.D
12 Jul 2023 14:21	J	C:\msdchem\1\data\S071123ICAL\s4G1125.D
12 Jul 2023 16:49	D	C:\msdchem\1\data\S071123ICAL\s4G1133.D
12 Jul 2023 19:16	E	C:\msdchem\1\data\S071123ICAL\s4G1141.D

Cal Lvl:6 Amt:80.00 Last Updated with: C:\msdchem\1\data\S071123ICAL\s4G1142.D

Injection Date	Mix	Calibration File
11 Jul 2023 19:40	A	C:\msdchem\1\data\S071123ICAL\s4G1107.D
12 Jul 2023 11:59	B	C:\msdchem\1\data\S071123ICAL\s4G1118.D
12 Jul 2023 14:39	J	C:\msdchem\1\data\S071123ICAL\s4G1126.D
12 Jul 2023 17:07	D	C:\msdchem\1\data\S071123ICAL\s4G1134.D
12 Jul 2023 19:35	E	C:\msdchem\1\data\S071123ICAL\s4G1142.D

Cal Lvl:7 Amt:100.00 Last Updated with: C:\msdchem\1\data\S071123ICAL\s4G1143.D

Injection Date	Mix	Calibration File
11 Jul 2023 20:04	A	C:\msdchem\1\data\S071123ICAL\s4G1108.D
12 Jul 2023 12:21	B	C:\msdchem\1\data\S071123ICAL\s4G1119.D

Calibration History Report MSD4
GEL Laboratories, LLC
Method File : C:\msdchem\1\data\S080323\MSD4_8270_071123.m
Last Update : Thu Jul 13 09:54:56 2023
Integrator : (RTE Integrator) Response via : Initial Calibration

12 Jul 2023 14:58	J	C:\msdchem\1\data\S071123ICAL\s4G1127.D
12 Jul 2023 17:26	D	C:\msdchem\1\data\S071123ICAL\s4G1135.D
12 Jul 2023 19:53	E	C:\msdchem\1\data\S071123ICAL\s4G1143.D

Cal Lvl:8 Amt:120.00 Last Updated with: C:\msdchem\1\data\S071123ICAL\s4G1136.D

Injection Date	Mix	Calibration File
11 Jul 2023 20:28	A	C:\msdchem\1\data\S071123ICAL\s4G1109.D
12 Jul 2023 12:42	B	C:\msdchem\1\data\S071123ICAL\s4G1120.D
12 Jul 2023 15:16	J	C:\msdchem\1\data\S071123ICAL\s4G1128.D
12 Jul 2023 17:44	D	C:\msdchem\1\data\S071123ICAL\s4G1136.D

Cal Lvl:9 Amt:30.00 Last Updated with: C:\msdchem\1\data\S071123ICAL\s4G1114.D

Injection Date	Mix	Calibration File
12 Jul 2023 10:33	B	C:\msdchem\1\data\S071123ICAL\s4G1114.D

Cal Lvl:10 Amt:60.00 Last Updated with: C:\msdchem\1\data\S071123ICAL\s4G1117.D

Injection Date	Mix	Calibration File
12 Jul 2023 11:38	B	C:\msdchem\1\data\S071123ICAL\s4G1117.D

MSD4_8270_071123.m Fri Aug 04 09:18:38 2023 MSD4

Response Factor Report MSD4
GEL Laboratories, LLC

Method File : C:\msdchem\1\data\S080323\MSD4_8270_071123.m
Last Update : Thu Jul 13 09:54:56 2023
Integrator : (RTE Integrator) Response via : Initial Calibration

08/04/2023

08/04/2023

For Linear Calibration: x = concentration ratio, y = response ratio. y = b + m1(x) + m2(xE2)

Compound b m1 m2	1 7	2 8	3 9	4 10	5	6	Avg	Curve	Exp	%RSD/r2
2)A 2-Ethoxyethanol	0.6064403	0.6484052	0.6703426	0.6896450	0.6938291	0.6956601				
	0.6821936	0.6708187					0.6697	AVRG		4.4681
3)AM N-Methyl-N-nitrosomethyl	0.6151566	0.7996097	0.8442901	0.8490863	0.8373768	0.8523100				
	0.8327854	0.8106702					0.8052	AVRG		9.8073
4)AM Pyridine		1.3401975	1.3990404	1.3894467	1.3900859	1.4054545				
	1.3789455	1.3380035					1.3773	AVRG		1.9883
5)SA 2-Fluorophenol		1.2364337	1.2566821	1.2236832	1.2380076	1.2503274				
	1.2317737	1.2652689					1.2432	AVRG		1.1858
6)A p-Benzoquinone		0.5207959	0.5884244	0.6009841	0.6152523	0.6372986				
	0.6164796	0.6007226					0.5971	AVRG		6.2086
7)AM Aniline		1.8637709	1.9650824	1.9597449	1.9418201	1.9447967				
	1.8765717	1.8135012					1.9093	AVRG		3.0461
8)SA Phenol-d5		1.5504025	1.5472016	1.5171271	1.5350291	1.5357393				
	1.5084417	1.5707298					1.5378	AVRG		1.3622
9)AMC Phenol		1.5923134	1.6970333	1.6758924	1.6743952	1.6961078				
	1.6630991	1.6184845					1.6596	AVRG		2.3911
10)AM bis(2-Chloroethyl) ether		1.2548745	1.3351085	1.3210102	1.3040634	1.3200396				
	1.2713195	1.2405317					1.2924	AVRG		2.8403
11)AM 2-Chlorophenol		1.3358939	1.4383415	1.4396312	1.4298904	1.4457195				
	1.4077498	1.3876647					1.4121	AVRG		2.7905
12)AM n-Decane		1.1638966	1.1861937	1.1753383	1.1743462	1.1904127				
	1.1507198	1.1270390					1.1668	AVRG		1.8878
13)AM 1,3-Dichlorobenzene		1.5234044	1.6394569	1.5926006	1.5756508	1.6119263				
	1.5615316	1.5089339					1.5734	AVRG		2.9605
14)AMC 1,4-Dichlorobenzene		1.5855576	1.6683204	1.6400590	1.6244352	1.6398447				
	1.6000775	1.5378348					1.6137	AVRG		2.6785
15)AM 1,2-Dichlorobenzene		1.4947549	1.5575512	1.5471370	1.5382406	1.5454424				
	1.5126669	1.4720986					1.5240	AVRG		2.0752
16)AM bis(2-Chloro-1-methyleth		1.4383065	1.5424789	1.5509935	1.5286873	1.5450769				
	1.5114768	1.4723894					1.5128	AVRG		2.8069

Response Factor Report MSD4
GEL Laboratories, LLC

Method File : C:\msdchem\1\data\S080323\MSD4_8270_071123.m
Last Update : Thu Jul 13 09:54:56 2023
Integrator : (RTE Integrator) Response via : Initial Calibration

For Linear Calibration: x = concentration ratio, y = response ratio. y = b + m1(x) + m2(xE2)

Compound b | m1 | m2	1 7	2 8	3 9	4 10	5	6	Avg	Curve	Exp	%RSD/r2
17)AM Benzyl alcohol	0.9313013	0.8591106 0.9221350	0.9528989	0.9629808	0.9549648	0.9567839	0.9343	AVRG		3.8865
18)AM o-Cresol	1.1235257	1.0689403 1.1003162	1.1546800	1.1480324	1.1468094	1.1530471	1.1279	AVRG		2.8885
19)AM m,p-Cresols	1.3303671	1.2454915 1.2975977	1.3671624	1.3627281	1.3479779	1.3694442	1.3315	AVRG		3.4288
20)AMP N-Nitrosodipropylamine	0.9584414	0.9019223 0.9405093	0.9638012	0.9726276	0.9610724	0.9892675	0.9554	AVRG		2.9100
21)AM Hexachloroethane	0.5755042	0.5404127 0.5586279	0.5880853	0.5822168	0.5838684	0.5943201	0.5747	AVRG		3.2855
23)SA Nitrobenzene-d5	0.3312313	0.3340717 0.3270778	0.3488092	0.3263346	0.3448952	0.3346172	0.3353	AVRG		2.5572
24)AM Nitrobenzene	0.3287587	0.3311079 0.3284348	0.3529631	0.3267886	0.3398381	0.3345540	0.3346	AVRG		2.7550
25)AM Isophorone	0.5963601	0.6186529 0.5917373	0.6387796	0.6058677	0.6297247	0.6108378	0.6131	AVRG		2.7939
26)AMC 2-Nitrophenol	0.1787732	0.1594700 0.1770146	0.1771953	0.1680921	0.1825600	0.1786246	0.1745	AVRG		4.5644
27)AM 2,4-Dimethylphenol	0.2505910	0.2438383 0.2485515	0.2598998	0.2470591	0.2592872	0.2561269	0.2522	AVRG		2.4931
28)AM bis(2-Chloroethoxy)metha	0.3765422	0.3916470 0.3734243	0.4036471	0.3804283	0.3951161	0.3870276	0.3868	AVRG		2.7947
29)AMC 2,4-Dichlorophenol	0.2870893	0.2892020 0.2869250	0.2975384	0.2822085	0.2966773	0.2922206	0.2903	AVRG		1.9136
30)AM Benzoic acid -0.0437 | 0.2421 | 0.00	407174	525429	52378	148620	180096	307413		1/x^2 LINR		0.9968
31)AM 1,2,4-Trichlorobenzene	0.3087025	0.3198404 0.3053649	0.3317903	0.3109586	0.3237605	0.3148387	0.3165	AVRG		2.9301
32)AM alpha-Terpineol	0.2557040	0.2593889 0.2528123	0.2671408	0.2547088	0.2682369	0.2628482	0.2601	AVRG		2.3560

Response Factor Report MSD4
GEL Laboratories, LLC

Method File : C:\msdchem\1\data\S080323\MSD4_8270_071123.m
Last Update : Thu Jul 13 09:54:56 2023
Integrator : (RTE Integrator) Response via : Initial Calibration

For Linear Calibration: x = concentration ratio, y = response ratio. y = b + m1(x) + m2(xE2)

Compound b m1 m2	1 7	2 8	3 9	4 10	5	6	Avg	Curve	Exp	%RSD/r2
33)AM Naphthalene	0.9544684	1.0266195	1.0492978	0.9680879	1.0028435	0.9579131				
	0.9226829	0.8933722					0.9719	AVRG		5.3668
34)AM 4-Chloroaniline		0.4119871	0.4286834	0.3961730	0.4154604	0.3994043				
	0.3923097	0.3881868					0.4046	AVRG		3.5972
35)AMC Hexachlorobutadiene		0.1851313	0.1988235	0.1853507	0.1949848	0.1898210				
	0.1863944	0.1865962					0.1896	AVRG		2.8195
36)AMC 4-Chloro-3-methylphenol		0.2761650	0.2882159	0.2726623	0.2847562	0.2777409				
	0.2769319	0.2749777					0.2788	AVRG		2.0077
37)AM 2-Methylnaphthalene	0.5905179	0.6517799	0.6805628	0.6355635	0.6592573	0.6333815				
	0.6179688	0.6054099					0.6343	AVRG		4.6498
38)AM 1-Methylnaphthalene	0.6008063	0.6404750	0.6689509	0.6195579	0.6439404	0.6243106				
	0.6007365	0.5912565					0.6238	AVRG		4.2244
40)AMP Hexachlorocyclopentadien		0.3582720	0.4132128	0.4151435	0.4136185	0.4291184				
	0.4250302	0.4139142					0.4098	AVRG		5.7511
41)AM 2,3-Dichloroaniline		0.6725182	0.7394765	0.7200903	0.7178269	0.7118249				
	0.7002527	0.6795448					0.7059	AVRG		3.3457
42)AMC 2,4,6-Trichlorophenol		0.3933341	0.4468202	0.4322948	0.4373507	0.4447589				
	0.4329918	0.4173500					0.4293	AVRG		4.3266
43)AM 2,4,5-Trichlorophenol		0.4145842	0.4732095	0.4622717	0.4697101	0.4761257				
	0.4684257	0.4644719					0.4613	AVRG		4.5789
44)SA 2-Fluorobiphenyl		1.4708934	1.5757422	1.5109534	1.5029508	1.4837364				
	1.4405894	1.3919159					1.4824	AVRG		3.8967
45)AM 2-Chloronaphthalene	1.0732092	1.2477140	1.3219674	1.2765235	1.2786268	1.2572893				
	1.2285007	1.1956425					1.2349	AVRG		6.0918
46)AM o-Nitroaniline		0.3095989	0.3480509	0.3374115	0.3432319	0.3494361				
	0.3446246	0.3359709					0.3383	AVRG		4.0263
47)A 1,4-Dinitrobenzene		0.1776401	0.2004632	0.2041382	0.2147050	0.2156211				
	0.2200768	0.2174824					0.2072	AVRG		7.1797
48)AM m-Nitroaniline		0.3554575	0.3938659	0.3966409	0.3883919	0.3941649				
	0.3923333	0.3827741					0.3862	AVRG		3.7078

Response Factor Report MSD4
GEL Laboratories, LLC

Method File : C:\msdchem\1\data\S080323\MSD4_8270_071123.m
Last Update : Thu Jul 13 09:54:56 2023
Integrator : (RTE Integrator) Response via : Initial Calibration

For Linear Calibration: x = concentration ratio, y = response ratio. y = b + m1(x) + m2(xE2)

Compound b | m1 | m2	1 7	2 8	3 9	4 10	5	6	Avg	Curve	Exp	%RSD/r2
49)AM Dimethylphthalate	1.2026701 1.4441394	1.4469353 1.3873161	1.5863693	1.5144420	1.5101982	1.4849122	1.4471	AVRG		7.9509
50)A m-Dinitrobenzene	0.2448452	0.2043890 0.2432649	0.2364322	0.2395873	0.2389690	0.2466335	0.2363	AVRG		6.1437
51)AM 2,6-Dinitrotoluene	0.3404196	0.3072930 0.3401707	0.3548693	0.3484788	0.3485922	0.3496555	0.3414	AVRG		4.6584
52)AM 2,4-Dinitrotoluene	0.4650203	0.4105163 0.4508579	0.4574776	0.4599988	0.4694656	0.4731354	0.4552	AVRG		4.6301
53)AM Acenaphthylene	1.7657058 1.9708963	2.0577253 1.8955790	2.1916951	2.1032247	2.1039095	2.0470186	2.0170	AVRG		6.7065
54)AMC Acenaphthene	1.1905428 1.3041015	1.3261514 1.2611566	1.4265256	1.3806491	1.3605688	1.3445414	1.3243	AVRG		5.5373
55)AMP 2,4-Dinitrophenol -0.0390 | 0.2022 | 0.00	167651	211904	21930	61092	73683	131884		1/x LINR		0.9987
56)AM Dibenzofuran	1.7720621	1.8207812 1.6980239	1.9849645	1.8730282	1.8649046	1.8360911	1.8357	AVRG		4.8599
57)A 2,3,4,6-Tetrachloropheno	0.4043309	0.3695652 0.4035423	0.4114326	0.4017138	0.4030347	0.4092681	0.4004	AVRG		3.5100
58)AM Diethylphthalate	1.2701473 1.4442245	1.4552840 1.4137042	1.5727266	1.5184476	1.5023203	1.4974486	1.4593	AVRG		6.2254
59)AMP 4-Nitrophenol	0.1847423	0.1462557 0.1837157	0.1751881	0.1818193	0.1851346	0.1837521	0.1772	AVRG		7.9401
60)AM Fluorene	1.3059071 1.4435297	1.4825887 1.3942294	1.6007630	1.5241016	1.5281370	1.5112887	1.4738	AVRG		6.2039
61)AM 4-Chlorophenylphenylethe	0.7238988	0.7165321 0.6988186	0.7781764	0.7434125	0.7423759	0.7407247	0.7348	AVRG		3.4226
62)AM p-Nitroaniline	0.4189695	0.3646813 0.4074172	0.4091315	0.4136898	0.4141009	0.4266626	0.4078	AVRG		4.9207
63)SA 2,4,6-Tribromophenol	0.3650156	0.3324809 0.3857792	0.3582118	0.3620492	0.3655954	0.3748829	0.3634	AVRG		4.5280

Response Factor Report MSD4
GEL Laboratories, LLC

Method File : C:\msdchem\1\data\S080323\MSD4_8270_071123.m
Last Update : Thu Jul 13 09:54:56 2023
Integrator : (RTE Integrator) Response via : Initial Calibration

For Linear Calibration: x = concentration ratio, y = response ratio. y = b + m1(x) + m2(xE2)

Compound b | m1 | m2	1 7	2 8	3 9	4 10	5	6	Avg	Curve	Exp	%RSD/r2
65)AM 2-Methyl-4,6-dinitrophen -0.0116 | 0.1230 | 0.00	222899	13592 272258	32080	87070	101904	170847		1/x^2 LINR		0.9990
66)AMC Diphenylamine	0.6071219	0.6047969 0.5857350	0.6613987	0.6346354	0.6358544	0.6263116	0.6223	AVRG		4.0199
67)AM 1,2-Diphenylhydrazine	0.6557770	0.6539704 0.6382178	0.7093595	0.6855212	0.6869692	0.6794043	0.6727	AVRG		3.6325
68)AM 4-Bromophenylphenylether	0.2443142	0.2385532 0.2379550	0.2495120	0.2470967	0.2494128	0.2488724	0.2451	AVRG		2.0455
69)AM Hexachlorobenzene	0.3152883	0.3063173 0.3083654	0.3240263	0.3189311	0.3219002	0.3230440	0.3168	AVRG		2.2505
70)AM Pentachlorophenol -0.0126 | 0.1796 | 0.00	323041	22367 396021	51771	131182	151728	254876		1/x^2 LINR		0.9998
71)AM n-Octadecane	0.4075858	0.3871559 0.3992088	0.4262566	0.4207569	0.4223381	0.4275848	0.4130	AVRG		3.7293
72)A Dinoseb -0.0190 | 0.1991 | 0.00	359429	21789 437699	52406	140763	164376	278980		1/x^2 LINR		0.9993
73)AM Phenanthrene	0.9761496 1.0234080	1.1069702 0.9752998	1.1553475	1.1089137	1.1103313	1.0640043	1.0651	AVRG		6.3064
74)AM Anthracene	0.9997182 1.0361114	1.1013435 0.9870732	1.1792601	1.1314430	1.1221711	1.0856216	1.0803	AVRG		6.2359
75)AM Carbazole	0.8975535 0.9645822	1.0125043 0.9122519	1.0729017	1.0247492	1.0369316	1.0009858	0.9903	AVRG		6.1714
76)AM Di-n-butylphthalate	1.0712438 1.1708090	1.2190084 1.0993056	1.3158071	1.2718999	1.2563169	1.2294744	1.2042	AVRG		7.0468
77)AMC Fluoranthene	1.0018701 1.1384302	1.2197532 1.0807805	1.2835057	1.2335651	1.2350980	1.1868494	1.1725	AVRG		7.9681
78)AM Pyrene	1.1441014 1.1903198	1.2484217 1.1290519	1.3292594	1.2782759	1.2943676	1.2364014	1.2313	AVRG		5.8112
79)SA p-Terphenyl-d14	1.0491739	1.0710109 1.0038364	1.1549639	1.1256697	1.1273080	1.0874119	1.0885	AVRG		4.7924

Response Factor Report MSD4
GEL Laboratories, LLC

Method File : C:\msdchem\1\data\S080323\MSD4_8270_071123.m
Last Update : Thu Jul 13 09:54:56 2023
Integrator : (RTE Integrator) Response via : Initial Calibration

For Linear Calibration: x = concentration ratio, y = response ratio. y = b + m1(x) + m2(xE2)

Compound b m1 m2	1 7	2 8	3 9	4 10	5	6	Avg	Curve	Exp	%RSD/r2
81)AM Butylbenzylphthalate	0.3757018	0.4484598	0.4929209	0.4900254	0.4844351	0.4930287				
	0.4796253	0.4663519					0.4663	AVRG		8.5081
82)AM bis(2-Ethylhexyl)phthala	0.5266860	0.6796243	0.7544771	0.7438791	0.7431222	0.7470236				
	0.7290175	0.7071800					0.7039	AVRG		10.7650
83)AM Benzo(a)anthracene	1.0777273	1.1373643	1.2226608	1.1510300	1.1524086	1.1369541				
	1.1053281	1.0737929					1.1322	AVRG		4.2355
84)AM Chrysene	0.9101352	1.0521260	1.0900504	1.0524202	1.0588093	1.0214801				
	1.0049768	0.9725888					1.0203	AVRG		5.6230
85)A Methoxychlor		0.6393507	0.7195213	0.7244137	0.7289434	0.7343519				
	0.7234813	0.7039392					0.7106	AVRG		4.6170
86)A Methylenebis(2-chloroani		0.2306094	0.2447786	0.2435222	0.2480199	0.2461600				
	0.2438489	0.2387839					0.2422	AVRG		2.4227
87)AMC Di-n-octylphthalate	0.8372923	1.0934743	1.2328975	1.2354290	1.2184308	1.2418925				
	1.2173374	1.1740271					1.1563	AVRG		11.9234
89)AM Benzo(b)fluoranthene	0.9134138	1.0527722	1.1356428	1.0987027	1.1011908	1.1157287				
	1.1045702	1.0608950					1.0729	AVRG		6.5175
90)AM Benzo(k)fluoranthene	0.8409051	0.9770436	1.0659089	1.0476470	1.0653751	1.0566374				
	1.0135991	0.9981051					1.0082	AVRG		7.4597
91)AMC Benzo(a)pyrene	0.7511511	0.9172685	0.9965303	0.9670381	0.9824897	0.9849165				
	0.9760401	0.9426595					0.9398	AVRG		8.5541
92)AM Indeno(1,2,3-cd)pyrene	0.9072996	1.0616342	1.1722204	1.1365262	1.1691060	1.1955941				
	1.1763921	1.1247369					1.1179	AVRG		8.4821
93)AM Dibenzo(a,h)anthracene	0.8790408	1.0548969	1.1653040	1.1519422	1.1685439	1.1822116				
	1.1680026	1.1331908					1.1129	AVRG		9.2184
94)AM Benzo(ghi)perylene	0.8889176	1.0575820	1.1541611	1.1230351	1.1405499	1.1433059				
	1.1305804	1.0966341					1.0918	AVRG		8.0259
95)A Dibenzo(a,e)pyrene		1.0053780	0.9978222	0.9610219	0.9958569	0.9908107				
	0.9913002	1.0582263					1.0001	AVRG		2.9212
97)BM 1,4-Dioxane		0.6757388	0.5196175	0.5464770	0.5429847	0.5483638				
	0.5856732	0.5573674	0.5458421	0.5333111			0.5617	AVRG		8.2516

Response Factor Report MSD4
GEL Laboratories, LLC

Method File : C:\msdchem\1\data\S080323\MSD4_8270_071123.m
Last Update : Thu Jul 13 09:54:56 2023
Integrator : (RTE Integrator) Response via : Initial Calibration

For Linear Calibration: x = concentration ratio, y = response ratio. y = b + m1(x) + m2(xE2)

Compound	1	2	3	4	5	6	Avg	Curve	Exp	%RSD/r2
b m1 m2	7	8	9	10						
98)B Methyl methacrylate		0.3031614	0.2476693	0.2533320	0.2532517	0.2561665				
	0.2684276	0.2589645	0.2575681	0.2528343			0.2613	AVRG		6.3970
99)B Ethyl methacrylate		1.3735085	1.0961988	1.1324546	1.1135246	1.1478369				
	1.2364221	1.1714516	1.1578894	1.1172061			1.1718	AVRG		7.3453
100)B 2-Picoline		1.7754222	1.4284295	1.4532872	1.4679979	1.4733050				
	1.5937779	1.5160330	1.5151870	1.4279316			1.5168	AVRG		7.2531
101)B N-Nitrosomethylethylamin		0.7049032	0.5671274	0.5901393	0.5882353	0.6149638				
	0.6662403	0.6324635	0.5966749	0.5766322			0.6153	AVRG		7.3694
102)B Methyl methanesulfonate		0.8525018	0.7069933	0.7020803	0.7075571	0.7009023				
	0.7573413	0.7100605	0.7313651	0.6918771			0.7290	AVRG		6.9029
103)B N-Nitrosodiethylamine		0.7434645	0.5947032	0.6121149	0.6183671	0.6242734				
	0.6792867	0.6427742	0.6278726	0.6050792			0.6387	AVRG		7.2499
104)B 2-Butoxyethanol		1.4300612	1.2057269	1.2390667	1.2382249	1.2486960				
	1.3726340	1.3053843	1.2565102	1.2145219			1.2790	AVRG		5.9604
105)B Ethyl methanesulfonate		1.2421825	1.0106111	1.0184564	1.0382341	1.0472732				
	1.1202905	1.0783126	1.0660921	1.0117636			1.0704	AVRG		6.8781
106)BM Benzaldehyde		1.3527668	1.0559704	1.0563242	1.0638018	1.0217799				
	1.0469669	0.9373518	1.0723456	1.0273829			1.0705	AVRG		10.5813
107)B Pentachloroethane		0.6898053	0.5739176	0.5846985	0.5796361	0.5922716				
	0.6517774	0.6106168	0.6070195	0.5754940			0.6072	AVRG		6.4897
108)BM N-Nitrosopyrrolidine		0.7722279	0.6529443	0.6738916	0.6740942	0.6917535				
	0.7560213	0.7220184	0.6784478	0.6564268			0.6975	AVRG		6.1628
109)BM Acetophenone		2.3628368	1.9274470	1.9709626	1.9490533	1.9730214				
	2.1529993	2.0241530	2.0131005	1.9234271			2.0330	AVRG		6.9846
110)B N-Nitrosomorpholine		0.7198579	0.5854348	0.6165300	0.6203363	0.6251418				
	0.6911841	0.6496487	0.6358906	0.6105810			0.6394	AVRG		6.5670
111)B o-Toluidine		2.6089298	2.1314491	2.1553969	2.1664082	2.1777423				
	2.3432157	2.2272000	2.2312500	2.1294368			2.2412	AVRG		6.8298
113)B N-Nitrosopiperidine		0.1953069	0.1628398	0.1684141	0.1749831	0.1739501				
	0.1896463	0.1774830	0.1750032	0.1695408			0.1764	AVRG		5.8062

Response Factor Report MSD4
GEL Laboratories, LLC

Method File : C:\msdchem\1\data\S080323\MSD4_8270_071123.m
Last Update : Thu Jul 13 09:54:56 2023
Integrator : (RTE Integrator) Response via : Initial Calibration

For Linear Calibration: x = concentration ratio, y = response ratio. y = b + m1(x) + m2(xE2)

Compound	1	2	3	4	5	6	Avg	Curve	Exp	%RSD/r2
b m1 m2	7	8	9	10						
114)B a,a-Dimethylphenethylami		0.8062664	0.7664770	0.7998866	0.8050178	0.8083266				
	0.8865334	0.8234189	0.8177268	0.7855978			0.8110	AVRG		4.0711
115)BM 2,6-Dichlorophenol		0.3381487	0.2995039	0.3009954	0.3060144	0.3058942				
	0.3339222	0.3112657	0.3110069	0.2973945			0.3116	AVRG		4.7169
116)B Hexachloropropene		0.2627308	0.2299605	0.2392667	0.2400219	0.2385011				
	0.2622291	0.2424506	0.2392462	0.2332581			0.2431	AVRG		4.7831
117)BM Caprolactam		0.1048459	0.0940403	0.0976198	0.0981414	0.1004103				
	0.1111960	0.1051594	0.1015518	0.0984912			0.1013	AVRG		5.0634
118)B N-Nitrosodi-n-butylamine		0.1809499	0.1532247	0.1570817	0.1565891	0.1596176				
	0.1731725	0.1595698	0.1604286	0.1555724			0.1618	AVRG		5.6535
119)B Safrole		0.3226578	0.2871629	0.2876408	0.2875433	0.2892220				
	0.3139307	0.2905804	0.2959038	0.2839646			0.2954	AVRG		4.5866
121)B 1,2,4,5-Tetrachlorobenze		0.7589942	0.6618867	0.6514456	0.6823740	0.6718480				
	0.7211925	0.6627052	0.6916004	0.6532801			0.6839	AVRG		5.2110
122)BM 1,1-Biphenyl		1.8641826	1.6768264	1.6136739	1.6689899	1.6187263				
	1.7072119	1.5461113	1.7040673	1.6087660			1.6676	AVRG		5.4114
123)B Isosafrole		0.6083741	0.5621188	0.5534188	0.5704642	0.5602267				
	0.6149275	0.5539800	0.5717977	0.5509036			0.5718	AVRG		4.1566
124)B 1,4-Naphthoquinone		0.5071129	0.4994027	0.5150488	0.5320497	0.5278521				
	0.5520276	0.4871375	0.5193537	0.5162941			0.5174	AVRG		3.6668
125)B Pentachlorobenzene		0.7345878	0.6602923	0.6590978	0.6739654	0.6763651				
	0.7270908	0.6660327	0.6864436	0.6564365			0.6823	AVRG		4.2790
126)B 1-Naphthylamine		1.4882962	1.3906626	1.3593284	1.3833171	1.3562576				
	1.4417835	1.3023771	1.4008944	1.3542968			1.3864	AVRG		3.9028
127)B 2-Naphthylamine		1.5668137	1.4357131	1.4106560	1.4137070	1.3937932				
	1.4588030	1.3057159	1.4436138	1.3810335			1.4233	AVRG		4.9155
128)B 5-Nitro-o-toluidine		0.3668782	0.3768227	0.3890318	0.4073089	0.4148318				
	0.4652090	0.4250892	0.4018993	0.3992409			0.4051	AVRG		7.1299
130)B 1,3,5-Trinitrobenzene		0.1320570	0.1298504	0.1413446	0.1484623	0.1551950				
	0.1765422	0.1593197	0.1439528	0.1465342			0.1481	AVRG		9.6680

Response Factor Report MSD4
GEL Laboratories, LLC

Method File : C:\msdchem\1\data\S080323\MSD4_8270_071123.m
Last Update : Thu Jul 13 09:54:56 2023
Integrator : (RTE Integrator) Response via : Initial Calibration

For Linear Calibration: x = concentration ratio, y = response ratio. y = b + m1(x) + m2(xE2)

Compound	1	2	3	4	5	6	Avg	Curve	Exp	%RSD/r2
b m1 m2	7	8	9	10						
131)B Phenacetin		0.3584225	0.3434483	0.3484833	0.3593908	0.3650838				
	0.4095963	0.3638904	0.3601373	0.3609930			0.3633	AVRG		5.1636
132)B Diallate		0.2164461	0.2068814	0.2060858	0.2070772	0.2124999				
	0.2349757	0.2088476	0.2148049	0.2099309			0.2131	AVRG		4.2152
133)B Cis Diallate		0.2546425	0.2433899	0.2424539	0.2436202	0.2499999				
	0.2764420	0.2457030	0.2527117	0.2469776			0.2507	AVRG		4.2152
134)B Trans Diallate		0.4765989	0.4588800	0.4687510	0.4843714	0.4972568				
	0.5473158	0.4922479	0.4849342	0.4775275			0.4875	AVRG		5.1793
135)BM Atrazine		0.2408509	0.2214217	0.2252116	0.2268318	0.2262748				
	0.2181940	0.1834901	0.2332456	0.2217989			0.2219	AVRG		7.1807
136)B 4-Aminobiphenyl		0.9032448	0.8297302	0.8119938	0.8371327	0.8288092				
	0.8319038	0.7076704	0.8530054	0.8124591			0.8240	AVRG		6.2506
137)B Pentachloronitrobenzene		0.0999860	0.0983186	0.0994618	0.1019133	0.1045087				
	0.1152724	0.1044182	0.1015624	0.1011406			0.1030	AVRG		4.9181
138)B Pronamide		0.3720487	0.3496894	0.3598197	0.3638580	0.3697000				
	0.4063324	0.3608944	0.3667031	0.3581138			0.3675	AVRG		4.3620
139)B 4-Nitroquinoline-1-oxide		0.0410410	0.0443018	0.0424833	0.0417627	0.0380310				
	0.0337801		0.0449529	0.0403020			0.0408	AVRG		8.8066
140)B Methapyrilene		0.4004128	0.3880815	0.3956119	0.3984899	0.4011379				
	0.4290642	0.3765368	0.4089836	0.3965098			0.3994	AVRG		3.5958
141)B Isodrin		0.1396632	0.1309989	0.1299134	0.1319185	0.1354800				
	0.1478916	0.1328295	0.1338778	0.1301254			0.1347	AVRG		4.3010
143)B Aramite		0.0659859	0.0599478	0.0625788	0.0656156	0.0678926				
	0.0758844	0.0674478	0.0634406	0.0654897			0.0660	AVRG		6.7444
144)B Kepone		0.1182415	0.1174746	0.1231798	0.1297756	0.1305478				
	0.1412342	0.1294393	0.1238491	0.1280379			0.1269	AVRG		5.7231
145)B p-(Dimethylamino)azobenz		0.1954266	0.1972671	0.2022945	0.2123177	0.2160031				
	0.2360203	0.2132656	0.2067011	0.2098166			0.2099	AVRG		5.7709
146)B Chlorobenzilate		0.3606895	0.3390689	0.3441379	0.3489955	0.3588487				
	0.3971418	0.3537724	0.3494467	0.3479401			0.3556	AVRG		4.7795

Response Factor Report MSD4
GEL Laboratories, LLC

Method File : C:\msdchem\1\data\S080323\MSD4_8270_071123.m
Last Update : Thu Jul 13 09:54:56 2023
Integrator : (RTE Integrator) Response via : Initial Calibration

For Linear Calibration: x = concentration ratio, y = response ratio. y = b + m1(x) + m2(xE2)

Compound	1	2	3	4	5	6	Avg	Curve	Exp	%RSD/r2
b m1 m2	7	8	9	10						
147)B 2-Acetylaminofluorene		0.3988333	0.3946336	0.4204597	0.4322599	0.4419669				
	0.4946097	0.4429541	0.4186710	0.4305819			0.4306	AVRG		6.8357
149)B 7,12-Dimethylbenz(a)anth		0.5055197	0.4695912	0.4866629	0.5023045	0.5127661				
	0.5692176	0.5117187	0.4934335	0.4953548			0.5052	AVRG		5.4452
150)B 3-Methylcholanthrene		0.1417521	0.1293158	0.1357420	0.1400426	0.1428848				
	0.1599621	0.1449321	0.1353007	0.1373052			0.1408	AVRG		6.0992
152)J Sulfolane		0.1172716	0.1145532	0.1127539	0.1125864	0.1137713				
	0.1131316	0.1207641					0.1150	AVRG		2.6201
154)J Prometon		0.1526377	0.1675462	0.1663353	0.1768384	0.1763910				
	0.1735670	0.1856915					0.1713	AVRG		6.1039
155)JM Benzidine		0.8604172	0.8975351	0.8968057	0.9163402	0.9081214				
	0.9056712	0.9303278					0.9022	AVRG		2.4094
157)J 3,3'-Dimethylbenzidine		0.7408276	0.7649555	0.7757655	0.8175101	0.8092194				
	0.8053326	0.8236866					0.7910	AVRG		3.9088
158)JM 3,3'-Dichlorobenzidine		0.4887616	0.4798444	0.4949270	0.5233769	0.5185767				
	0.5224215	0.5529193					0.5115	AVRG		4.9324
160)D Triethylphosphorothioate		0.2156369	0.1988680	0.2032491	0.2079058	0.2065743				
	0.2067116	0.2047532					0.2062	AVRG		2.4796
162)D Thionazine		0.2293440	0.2227815	0.2342076	0.2409674	0.2446386				
	0.2455688	0.2539012					0.2388	AVRG		4.4577
163)DM Tributylphosphate		1.6380718	1.6180529	1.6749933	1.7235928	1.7017838				
	1.6784176	1.6593290					1.6706	AVRG		2.1593
165)D Sulfotepp		0.1859595	0.1827947	0.1819073	0.1861865	0.1860217				
	0.1835952	0.1881667					0.1849	AVRG		1.2046
166)D Phorate		0.3966615	0.3922883	0.4058609	0.4186654	0.4143907				
	0.4097122	0.4126040					0.4072	AVRG		2.3597
167)D Dimethoate		0.2579691	0.2527312	0.2643714	0.2757345	0.2804417				
	0.2761699	0.2843272					0.2702	AVRG		4.4286
168)D Disulfoton		0.3906611	0.3668728	0.3719639	0.3827252	0.3728166				
	0.3717948	0.3706624					0.3754	AVRG		2.2108

Response Factor Report MSD4
GEL Laboratories, LLC

Method File : C:\msdchem\1\data\S080323\MSD4_8270_071123.m
Last Update : Thu Jul 13 09:54:56 2023
Integrator : (RTE Integrator) Response via : Initial Calibration

For Linear Calibration: x = concentration ratio, y = response ratio. y = b + m1(x) + m2(xE2)

Compound	1	2	3	4	5	6	Avg	Curve	Exp	%RSD/r2
b | m1 | m2	7	8	9	10						
169)D Methyl parathion		0.1771351	0.1921456	0.2115559	0.2286581	0.2357814				
	0.2375025	0.2469841					0.2185	AVRG		11.8563
170)D Parathion		0.0784607	0.0936676	0.1024874	0.1083804	0.1116666				
	0.1155399	0.1182910					0.1041	AVRG		13.4560
172)D Famphur		0.4430647	0.4415351	0.4616356	0.4779923	0.4787088				
	0.4765076	0.4869244					0.4666	AVRG		3.9072
174)E p-Phenylenediamine		0.4639108	0.4569640	0.4505791	0.4480110	0.4619063				
	0.4483198						0.4549	AVRG		1.5354
176)E Hexachlorophene		753906	1180950	1628240	2211810	2524506		1/x^2		
-0.9076 | 0.1363 | 0.00	2637096							LINR	#	0.9971

(#) = Out of Range ($) = Individual RF Out of Range
AVRG = Average, LINR = Linear Regression, 1/x = the inverse of concentration, 1/x^2 = the inverse square of concentration

Quantitation Report

07/13/2023

Data Path : C:\msdchem\1\data\S071123ICAL\
Data File : s4G1102.D
Acq On : 11 Jul 2023 17:37
Operator : NM1
Sample : |WBN230627-01.1|ICAL|1|SVM|1|M-1
Misc : |MIX[A]
ALS Vial : 2 Sample Multiplier: 1

07/13/2023

Quant Time: Jul 13 09:52:52 2023
Quant Method : C:\msdchem\1\data\S071123ICAL\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:49:18 2023
Response via : Initial Calibration

Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	Dev(Min)
Internal Standards								
1) A 1,4-Dichlorobenzene-d4	152	4.313	4.313	1.000	183563	40.00	ng/uL	0.00
22) A Naphthalene-d8	136	5.688	5.688	1.000	715372	40.00	ng/uL	0.00
39) A Acenaphthene-d10	164	7.362	7.362	1.000	385908	40.00	ng/uL	0.00
64) A Phenanthrene-d10	188	8.656	8.656	1.000	780700	40.00	ng/uL	0.00
80) A Chrysene-d12	240	11.154	11.154	1.000	898372	40.00	ng/uL	0.00
88) A Perylene-d12	264	13.529	13.523	1.000	1020567	40.00	ng/uL	0.00
96) B 1,4-Dichlorobenzene-d4	152	4.313	4.313	1.000	0m	40.00	ng/uL	0.00
112) B Naphthalene-d8	136	5.688	5.688	1.000	0m	40.00	ng/uL	0.00
120) B Acenaphthene-d10	164	7.362	7.362	1.000	0m	40.00	ng/uL	0.00
129) B Phenanthrene-d10	188	8.656	8.656	1.000	0m	40.00	ng/uL	0.00
142) B Chrysene-d12	240	11.154	11.154	1.000	0m	40.00	ng/uL	0.00
148) B Perylene-d12	264	13.529	13.523	1.000	0m	40.00	ng/uL	0.00
151) J Naphthalene-d8	136	5.688	5.688	1.000	0m	40.00	ng/uL	0.00
153) J Phenanthrene-d10	188	8.656	8.656	1.000	0m	40.00	ng/uL	0.00
156) J Chrysene-d12	240	11.154	11.154	1.000	0m	40.00	ng/uL	0.00
159) D Naphthalene-d8	136	5.688	5.688	1.000	0m	40.00	ng/uL	0.00
161) D Acenaphthene-d10	164	7.362	7.362	1.000	0m	40.00	ng/uL	0.00
164) D Phenanthrene-d10	188	8.656	8.656	1.000	0m	40.00	ng/uL	0.00
171) D Chrysene-d12	240	11.154	11.154	1.000	0m	40.00	ng/uL	0.00
173) E Naphthalene-d8	136	5.688	5.688	1.000	0m	40.00	ng/uL	0.00
175) E Perylene-d12	264	13.529	13.540	1.000	0m	40.00	ng/uL	-0.01
System Monitoring Compounds								Dev(Min)
5) 2-Fluorophenol	112	3.003	2.997	0.696	6941	1.22	ng/uL	0.00
8) Phenol-d5	99	3.880	3.880	0.900	8521	1.21	ng/uL	0.00
23) Nitrobenzene-d5	82	4.917	4.917	0.865	5203	0.87	ng/uL	0.00
44) 2-Fluorobiphenyl	172	6.741	6.741	0.916	12284	0.86	ng/uL	0.00
63) 2,4,6-Tribromophenol	330	8.052	8.052	1.094	4008	1.14	ng/uL	0.00
79) p-Terphenyl-d14	244	9.993	9.993	1.154	18216	0.86	ng/uL	0.00
Target Compounds	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	QValue
3) N-Methyl-N-nitrosometh...	74	1.954	1.949	0.453	2823	0.76	ng/uL	70
33) Naphthalene	128	5.709	5.709	1.004	17070	0.98	ng/uL	96
37) 2-Methylnaphthalene	142	6.399	6.399	1.125	10561	0.93	ng/uL	99
38) 1-Methylnaphthalene	142	6.490	6.490	1.141	10745	0.96	ng/uL	98
45) 2-Chloronaphthalene	162	6.859	6.859	0.932	10354	0.87	ng/uL	94
49) Dimethylphthalate	163	7.100	7.105	0.964	11603	0.83	ng/uL	99
53) Acenaphthylene	152	7.239	7.239	0.983	17035	0.88	ng/uL	95
54) Acenaphthene	153	7.389	7.394	1.004	11486	0.90	ng/uL	93
58) Diethylphthalate	149	7.720	7.725	1.049	12254	0.87	ng/uL	96
60) Fluorene	166	7.843	7.848	1.065	12599	0.89	ng/uL	99
70) Pentachlorophenol	266	8.485	8.485	0.980	1386	3.21	ng/uL	74
72) Dinoseb	211	8.624	8.624	0.996	1343	4.16	ng/uL#	15
73) Phenanthrene	178	8.672	8.677	1.002	19052	0.92	ng/uL	95
74) Anthracene	178	8.720	8.720	1.007	19512	0.93	ng/uL	99
75) Carbazole	167	8.849	8.849	1.022	17518	0.91	ng/uL	98
76) Di-n-butylphthalate	149	9.111	9.111	1.053	20908	0.89	ng/uL	95
77) Fluoranthene	202	9.683	9.683	1.119	19554	0.85	ng/uL	97
78) Pyrene	202	9.876	9.876	1.141	22330	0.93	ng/uL	97
81) Butylbenzylphthalate	149	10.448	10.448	0.937	8438	0.81	ng/uL	95
82) bis(2-Ethylhexyl)phtha...	149	11.117	11.116	0.997	11829	0.75	ng/uL	92
83) Benzo(a)anthracene	228	11.138	11.138	0.999	24205	0.95	ng/uL	95
84) Chrysene	228	11.186	11.186	1.003	20441	0.89	ng/uL	98
87) Di-n-octylphthalate	149	12.101	12.101	1.085	18805	0.72	ng/uL	83
89) Benzo(b)fluoranthene	252	12.796	12.801	0.946	23305	0.85	ng/uL	98

Data Path : C:\msdchem\1\data\S071123ICAL\
Data File : s4G1102.D
Acq On : 11 Jul 2023 17:37
Operator : NM1
Sample : |WBN230627-01.1|ICAL|1|SVM|1|M-1
Misc : |MIX[A]
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 13 09:52:52 2023
Quant Method : C:\msdchem\1\data\S071123ICAL\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:49:18 2023
Response via : Initial Calibration

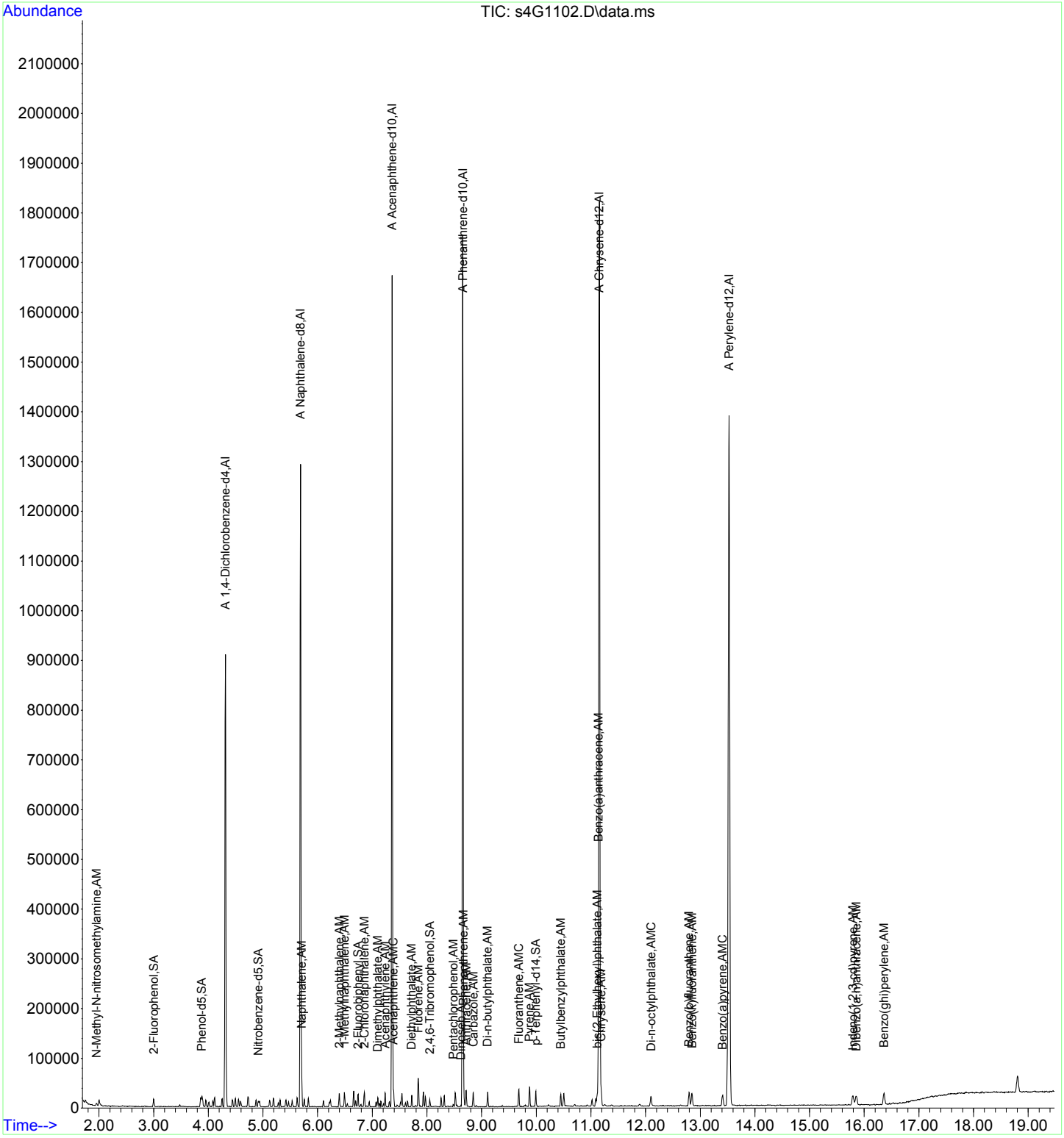
Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	
90) Benzo(k)fluoranthene	252	12.850	12.855	0.950	21455	0.83	ng/uL	98
91) Benzo(a)pyrene	252	13.411	13.416	0.991	19165	0.80	ng/uL	98
92) Indeno(1,2,3-cd)pyrene	276	15.797	15.807	1.168	23149	0.81	ng/uL	97
93) Dibenzo(a,h)anthracene	278	15.855	15.866	1.172	22428	0.79	ng/uL	97
94) Benzo(ghi)perylene	276	16.364	16.374	1.210	22680	0.81	ng/uL	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(A) = Over the calibration range (d) = deleted

Quantitation Report

Data Path : C:\msdchem\1\data\S071123ICAL\
Data File : s4G1102.D
Acq On : 11 Jul 2023 17:37
Operator : NM1
Sample : |WBN230627-01.1|ICAL|1|SVM|1|M-1
Misc : |MIX[A]
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 13 09:52:52 2023
Quant Method : C:\msdchem\1\data\S071123ICAL\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:49:18 2023
Response via : Initial Calibration



Quantitation Report

07/13/2023

Data Path : C:\msdchem\1\data\S071123ICAL\
Data File : s4G1103.D
Acq On : 11 Jul 2023 18:02
Operator : NM1
Sample : |WBN230627-02.1|ICAL|1|SVM|1|M-2
Misc : |MIX[A]
ALS Vial : 3 Sample Multiplier: 1

07/13/2023

Quant Time: Jul 13 10:09:05 2023
Quant Method : C:\msdchem\1\data\S071123ICAL\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:54:56 2023
Response via : Initial Calibration

Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	Dev(Min)
Internal Standards								
1) A 1,4-Dichlorobenzene-d4	152	4.308	4.313	1.000	159863	40.00	ng/uL	0.00
22) A Naphthalene-d8	136	5.688	5.688	1.000	639719	40.00	ng/uL	0.00
39) A Acenaphthene-d10	164	7.362	7.362	1.000	338257	40.00	ng/uL	0.00
64) A Phenanthrene-d10	188	8.656	8.656	1.000	687444	40.00	ng/uL	0.00
80) A Chrysene-d12	240	11.154	11.154	1.000	785328	40.00	ng/uL	0.00
88) A Perylene-d12	264	13.523	13.523	1.000	892345	40.00	ng/uL	0.00
96) B 1,4-Dichlorobenzene-d4	152	4.308	4.313	1.000	0m	40.00	ng/uL	0.00
112) B Naphthalene-d8	136	5.688	5.688	1.000	0m	40.00	ng/uL	0.00
120) B Acenaphthene-d10	164	7.362	7.362	1.000	0m	40.00	ng/uL	0.00
129) B Phenanthrene-d10	188	8.656	8.656	1.000	0m	40.00	ng/uL	0.00
142) B Chrysene-d12	240	11.154	11.154	1.000	0m	40.00	ng/uL	0.00
148) B Perylene-d12	264	13.523	13.523	1.000	0m	40.00	ng/uL	0.00
151) J Naphthalene-d8	136	5.688	5.688	1.000	0m	40.00	ng/uL	0.00
153) J Phenanthrene-d10	188	8.656	8.656	1.000	0m	40.00	ng/uL	0.00
156) J Chrysene-d12	240	11.154	11.154	1.000	0m	40.00	ng/uL	0.00
159) D Naphthalene-d8	136	5.688	5.688	1.000	0m	40.00	ng/uL	0.00
161) D Acenaphthene-d10	164	7.362	7.362	1.000	0m	40.00	ng/uL	0.00
164) D Phenanthrene-d10	188	8.656	8.656	1.000	0m	40.00	ng/uL	0.00
171) D Chrysene-d12	240	11.154	11.154	1.000	0m	40.00	ng/uL	0.00
173) E Naphthalene-d8	136	5.688	5.688	1.000	0m	40.00	ng/uL	0.00
175) E Perylene-d12	264	13.523	13.540	1.000	0m	40.00	ng/uL	-0.02
System Monitoring Compounds								Dev(Min)
5) 2-Fluorophenol	112	2.997	2.997	0.696	49415	9.95	ng/uL	0.00
8) Phenol-d5	99	3.880	3.880	0.901	61963	10.08	ng/uL	0.00
23) Nitrobenzene-d5	82	4.912	4.917	0.864	53428	9.96	ng/uL	0.00
44) 2-Fluorobiphenyl	172	6.741	6.741	0.916	124385	9.92	ng/uL	0.00
63) 2,4,6-Tribromophenol	330	8.052	8.052	1.094	28116	9.15	ng/uL	0.00
79) p-Terphenyl-d14	244	9.993	9.993	1.154	184065	9.84	ng/uL	0.00

Target Compounds	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	QValue
2) 2-Ethoxyethanol	59	1.740	1.746	0.404	25914	9.68	ng/uL	99
3) N-Methyl-N-nitrosometh...	74	1.944	1.949	0.451	31957	9.93	ng/uL	97
4) Pyridine	79	1.992	1.992	0.462	53562	9.73	ng/uL	98
6) p-Benzoquinone	54	3.473	3.473	0.806	20814	8.72	ng/uL	94
7) Aniline	93	3.955	3.955	0.918	74487	9.76	ng/uL	99
9) Phenol	94	3.891	3.896	0.903	63638	9.59	ng/uL	99
10) bis(2-Chloroethyl) ether	93	4.008	4.013	0.930	50152	9.71	ng/uL	99
11) 2-Chlorophenol	128	4.083	4.083	0.948	53390	9.46	ng/uL	99
12) n-Decane	43	4.110	4.115	0.954	46516	9.97	ng/uL	97
13) 1,3-Dichlorobenzene	146	4.249	4.254	0.986	60884	9.68	ng/uL	99
14) 1,4-Dichlorobenzene	146	4.329	4.329	1.005	63368	9.83	ng/uL	97
15) 1,2-Dichlorobenzene	146	4.495	4.495	1.043	59739	9.81	ng/uL	99
16) bis(2-Chloro-1-methyle...	45	4.591	4.591	1.066	57483	9.51	ng/uL	99
17) Benzyl alcohol	108	4.436	4.441	1.030	34335	9.20	ng/uL	96
18) o-Cresol	107	4.548	4.554	1.056	42721	9.48	ng/uL	99
19) m,p-Cresols	108	4.720	4.725	1.096	49777	9.35	ng/uL	99
20) N-Nitrosodipropylamine	70	4.730	4.735	1.098	36046	9.44	ng/uL	100
21) Hexachloroethane	117	4.869	4.875	1.130	21598	9.40	ng/uL	98
24) Nitrobenzene	77	4.934	4.939	0.867	52954	9.89	ng/uL	98
25) Isophorone	82	5.190	5.195	0.913	98941	10.09	ng/uL	99
26) 2-Nitrophenol	139	5.281	5.281	0.929	25504	9.14	ng/uL	98
27) 2,4-Dimethylphenol	122	5.313	5.313	0.934	38997	9.67	ng/uL	99
28) bis(2-Chloroethoxy)met...	93	5.420	5.420	0.953	62636	10.12	ng/uL	99
29) 2,4-Dichlorophenol	162	5.533	5.532	0.973	46252	9.96	ng/uL	99

Quantitation Report

Data Path : C:\msdchem\1\data\S071123ICAL\
Data File : s4G1103.D
Acq On : 11 Jul 2023 18:02
Operator : NM1
Sample : |WBN230627-02.1|ICAL|1|SVM|1|M-2
Misc : |MIX[A]
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 13 10:09:05 2023
Quant Method : C:\msdchem\1\data\S071123ICAL\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:54:56 2023
Response via : Initial Calibration

Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	
30) Benzoic acid	105	5.356	5.393	0.942	15303	11.17	ng/uL	93
31) 1,2,4-Trichlorobenzene	180	5.624	5.629	0.989	51152	10.11	ng/uL	99
32) alpha-Terpineol	59	5.709	5.714	1.004	41484	9.97	ng/uL	100
33) Naphthalene	128	5.709	5.709	1.004	164187	10.56	ng/uL	99
34) 4-Chloroaniline	127	5.757	5.757	1.012	65889	10.18	ng/uL	99
35) Hexachlorobutadiene	225	5.832	5.832	1.025	29608	9.77	ng/uL	97
36) 4-Chloro-3-methylphenol	107	6.233	6.233	1.096	44167	9.91	ng/uL	98
37) 2-Methylnaphthalene	142	6.394	6.399	1.124	104239	10.28	ng/uL	97
38) 1-Methylnaphthalene	142	6.490	6.490	1.141	102431	10.27	ng/uL	99
40) Hexachlorocyclopentadiene	237	6.543	6.543	0.889	30297	8.74	ng/uL	97
41) 2,3-Dichloroaniline	161	6.661	6.661	0.905	56871	9.53	ng/uL	98
42) 2,4,6-Trichlorophenol	196	6.656	6.661	0.904	33262	9.16	ng/uL	98
43) 2,4,5-Trichlorophenol	196	6.693	6.693	0.909	35059	8.99	ng/uL	98
45) 2-Chloronaphthalene	162	6.854	6.859	0.931	105512	10.10	ng/uL	98
46) o-Nitroaniline	65	6.939	6.944	0.943	26181	9.15	ng/uL	97
47) 1,4-Dinitrobenzene	168	7.068	7.073	0.960	15022	8.57	ng/uL	98
48) m-Nitroaniline	138	7.314	7.314	0.993	30059	9.20	ng/uL	98
49) Dimethylphthalate	163	7.105	7.105	0.965	122359	10.00	ng/uL	100
50) m-Dinitrobenzene	168	7.132	7.137	0.969	17284	8.65	ng/uL	98
51) 2,6-Dinitrotoluene	165	7.159	7.164	0.972	25986	9.00	ng/uL	96
52) 2,4-Dinitrotoluene	165	7.517	7.522	1.021	34715	9.02	ng/uL	97
53) Acenaphthylene	152	7.233	7.239	0.983	174010	10.20	ng/uL	98
54) Acenaphthene	153	7.389	7.394	1.004	112145	10.01	ng/uL	99
55) 2,4-Dinitrophenol	184	7.405	7.410	1.006	7519	12.12	ng/uL	94
56) Dibenzofuran	168	7.544	7.544	1.025	153973	9.92	ng/uL	100
57) 2,3,4,6-Tetrachlorophenol	232	7.645	7.645	1.039	31252	9.23	ng/uL	98
58) Diethylphthalate	149	7.726	7.725	1.049	123065	9.97	ng/uL	99
59) 4-Nitrophenol	109	7.453	7.453	1.012	12368	8.25	ng/uL	99
60) Fluorene	166	7.843	7.848	1.065	125374	10.06	ng/uL	99
61) 4-Chlorophenylphenylether	204	7.838	7.838	1.065	60593	9.75	ng/uL	99
62) p-Nitroaniline	138	7.849	7.854	1.066	30839	8.94	ng/uL	97
65) 2-Methyl-4,6-dinitroph...	198	7.870	7.875	0.909	13592	10.22	ng/uL	96
66) Diphenylamine	169	7.934	7.939	0.917	103941	9.72	ng/uL	99
67) 1,2-Diphenylhydrazine	77	7.972	7.977	0.921	112392	9.72	ng/uL	99
68) 4-Bromophenylphenylether	248	8.260	8.260	0.954	40998	9.73	ng/uL	98
69) Hexachlorobenzene	284	8.319	8.319	0.961	52644	9.67	ng/uL	99
70) Pentachlorophenol	266	8.485	8.485	0.980	22367	10.06	ng/uL	95
71) n-Octadecane	57	8.517	8.517	0.984	66537	9.37	ng/uL	99
72) Dinoseb	211	8.624	8.624	0.996	21789	10.18	ng/uL	97
73) Phenanthrene	178	8.672	8.677	1.002	190245	10.39	ng/uL	99
74) Anthracene	178	8.720	8.720	1.007	189278	10.19	ng/uL	99
75) Carbazole	167	8.849	8.849	1.022	174010	10.22	ng/uL	99
76) Di-n-butylphthalate	149	9.111	9.111	1.053	209500	10.12	ng/uL	99
77) Fluoranthene	202	9.683	9.683	1.119	209628	10.40	ng/uL	98
78) Pyrene	202	9.876	9.876	1.141	214555	10.14	ng/uL	98
81) Butylbenzylphthalate	149	10.448	10.448	0.937	88047	9.62	ng/uL	99
82) bis(2-Ethylhexyl)phtha...	149	11.111	11.116	0.996	133432	9.66	ng/uL	99
83) Benzo(a)anthracene	228	11.138	11.138	0.999	223301	10.05	ng/uL	99
84) Chrysene	228	11.186	11.186	1.003	206566	10.31	ng/uL	98
85) Methoxychlor	227	11.020	11.020	0.988	125525	9.00	ng/uL	99
86) Methylenebis(2-chloroa...	231	11.084	11.090	0.994	45276	9.52	ng/uL	98
87) Di-n-octylphthalate	149	12.095	12.101	1.084	214684	9.46	ng/uL	100
89) Benzo(b)fluoranthene	252	12.796	12.801	0.946	234859	9.81	ng/uL	100
90) Benzo(k)fluoranthene	252	12.844	12.855	0.950	217965	9.69	ng/uL	99
91) Benzo(a)pyrene	252	13.406	13.416	0.991	204630	9.76	ng/uL	99
92) Indeno(1,2,3-cd)pyrene	276	15.791	15.807	1.168	236836	9.50	ng/uL	99
93) Dibenzo(a,h)anthracene	278	15.850	15.866	1.172	235333	9.48	ng/uL	100

Quantitation Report

Data Path : C:\msdchem\1\data\S071123ICAL\
Data File : s4G1103.D
Acq On : 11 Jul 2023 18:02
Operator : NM1
Sample : |WBN230627-02.1|ICAL|1|SVM|1|M-2
Misc : |MIX[A]
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 13 10:09:05 2023
Quant Method : C:\msdchem\1\data\S071123ICAL\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:54:56 2023
Response via : Initial Calibration

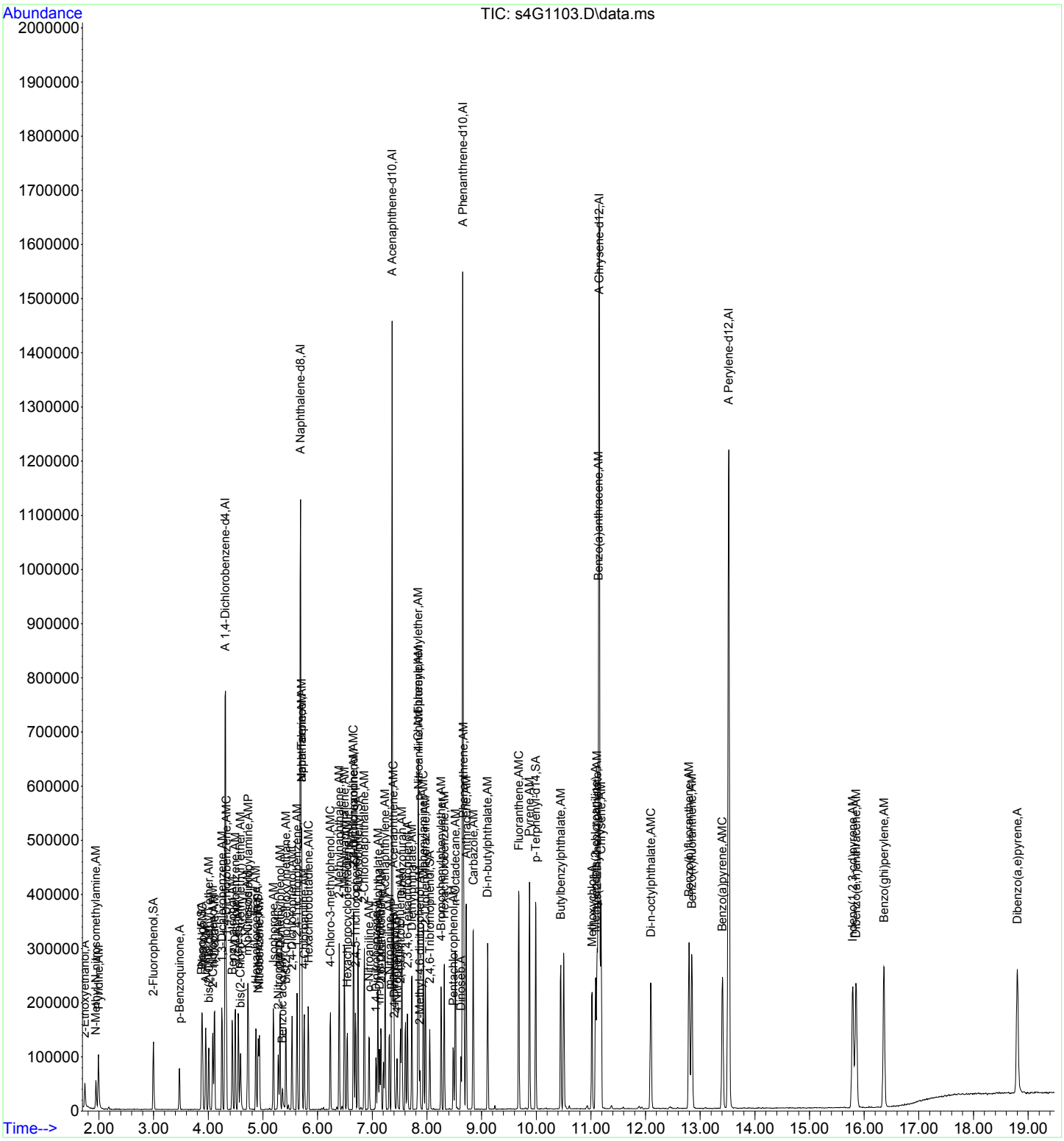
Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	
94) Benzo(ghi)perylene	276	16.364	16.374	1.210	235932	9.69	ng/uL	99
95) Dibenzo(a,e)pyrene	302	18.803	18.813	1.390	224286	10.05	ng/uL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(A) = Over the calibration range (d) = deleted

Quantitation Report

Data Path : C:\msdchem\1\data\S071123ICAL\
Data File : s4G1103.D
Acq On : 11 Jul 2023 18:02
Operator : NM1
Sample : |WBN230627-02.1|ICAL|1|SVM|1|M-2
Misc : |MIX[A]
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 13 10:09:05 2023
Quant Method : C:\msdchem\1\data\S071123ICAL\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:54:56 2023
Response via : Initial Calibration



Quantitation Report

07/13/2023

Data Path : C:\msdchem\1\data\S071123ICAL\
Data File : s4G1104.D
Acq On : 11 Jul 2023 18:26
Operator : NM1
Sample : |WBN230627-03.2|ICAL|1|SVM|1|M-3
Misc : |MIX[A]
ALS Vial : 4 Sample Multiplier: 1

07/13/2023

Quant Time: Jul 13 10:09:33 2023
Quant Method : C:\msdchem\1\data\S071123ICAL\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:54:56 2023
Response via : Initial Calibration

Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	
Internal Standards								Dev(Min)
1) A 1,4-Dichlorobenzene-d4	152	4.313	4.313	1.000	159232	40.00	ng/uL	0.00
22) A Naphthalene-d8	136	5.688	5.688	1.000	654329	40.00	ng/uL	0.00
39) A Acenaphthene-d10	164	7.362	7.362	1.000	330285	40.00	ng/uL	0.00
64) A Phenanthrene-d10	188	8.656	8.656	1.000	677803	40.00	ng/uL	0.00
80) A Chrysene-d12	240	11.154	11.154	1.000	771146	40.00	ng/uL	0.00
88) A Perylene-d12	264	13.524	13.523	1.000	866924	40.00	ng/uL	0.00
96) B 1,4-Dichlorobenzene-d4	152	4.313	4.313	1.000	0m	40.00	ng/uL	0.00
112) B Naphthalene-d8	136	5.688	5.688	1.000	0m	40.00	ng/uL	0.00
120) B Acenaphthene-d10	164	7.362	7.362	1.000	0m	40.00	ng/uL	0.00
129) B Phenanthrene-d10	188	8.656	8.656	1.000	0m	40.00	ng/uL	0.00
142) B Chrysene-d12	240	11.154	11.154	1.000	0m	40.00	ng/uL	0.00
148) B Perylene-d12	264	13.524	13.523	1.000	0m	40.00	ng/uL	0.00
151) J Naphthalene-d8	136	5.688	5.688	1.000	0m	40.00	ng/uL	0.00
153) J Phenanthrene-d10	188	8.656	8.656	1.000	0m	40.00	ng/uL	0.00
156) J Chrysene-d12	240	11.154	11.154	1.000	0m	40.00	ng/uL	0.00
159) D Naphthalene-d8	136	5.688	5.688	1.000	0m	40.00	ng/uL	0.00
161) D Acenaphthene-d10	164	7.362	7.362	1.000	0m	40.00	ng/uL	0.00
164) D Phenanthrene-d10	188	8.656	8.656	1.000	0m	40.00	ng/uL	0.00
171) D Chrysene-d12	240	11.154	11.154	1.000	0m	40.00	ng/uL	0.00
173) E Naphthalene-d8	136	5.688	5.688	1.000	0m	40.00	ng/uL	0.00
175) E Perylene-d12	264	13.524	13.540	1.000	0m	40.00	ng/uL	-0.02
System Monitoring Compounds								Dev(Min)
5) 2-Fluorophenol	112	2.997	2.997	0.695	100052	20.22	ng/uL	0.00
8) Phenol-d5	99	3.880	3.880	0.900	123182	20.12	ng/uL	0.00
23) Nitrobenzene-d5	82	4.912	4.917	0.864	114118	20.81	ng/uL	0.00
44) 2-Fluorobiphenyl	172	6.741	6.741	0.916	260222	21.26	ng/uL	0.00
63) 2,4,6-Tribromophenol	330	8.052	8.052	1.094	59156	19.71	ng/uL	0.00
79) p-Terphenyl-d14	244	9.988	9.993	1.154	391419	21.22	ng/uL	0.00
Target Compounds	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	QValue
2) 2-Ethoxyethanol	59	1.746	1.746	0.405	53370	20.02	ng/uL	98
3) N-Methyl-N-nitrosometh...	74	1.949	1.949	0.452	67219	20.97	ng/uL	97
4) Pyridine	79	1.992	1.992	0.462	111386	20.32	ng/uL	99
6) p-Benzoquinone	54	3.473	3.473	0.805	46848	19.71	ng/uL	99
7) Aniline	93	3.955	3.955	0.917	156452	20.58	ng/uL	99
9) Phenol	94	3.896	3.896	0.903	135111	20.45	ng/uL	99
10) bis(2-Chloroethyl) ether	93	4.008	4.013	0.929	106296	20.66	ng/uL	99
11) 2-Chlorophenol	128	4.083	4.083	0.947	114515	20.37	ng/uL	99
12) n-Decane	43	4.115	4.115	0.954	94440	20.33	ng/uL	100
13) 1,3-Dichlorobenzene	146	4.249	4.254	0.985	130527	20.84	ng/uL	99
14) 1,4-Dichlorobenzene	146	4.329	4.329	1.004	132825	20.68	ng/uL	99
15) 1,2-Dichlorobenzene	146	4.495	4.495	1.042	124006	20.44	ng/uL	99
16) bis(2-Chloro-1-methyle...	45	4.591	4.591	1.064	122806	20.39	ng/uL	99
17) Benzyl alcohol	108	4.442	4.441	1.030	75866	20.40	ng/uL	99
18) o-Cresol	107	4.548	4.554	1.055	91931	20.47	ng/uL	99
19) m,p-Cresols	108	4.720	4.725	1.094	108848	20.54	ng/uL	99
20) N-Nitrosodipropylamine	70	4.736	4.735	1.098	76734	20.18	ng/uL	98
21) Hexachloroethane	117	4.869	4.875	1.129	46821	20.47	ng/uL	98
24) Nitrobenzene	77	4.934	4.939	0.867	115477	21.10	ng/uL	100
25) Isophorone	82	5.190	5.195	0.913	208986	20.84	ng/uL	100
26) 2-Nitrophenol	139	5.281	5.281	0.929	57972	20.31	ng/uL	99
27) 2,4-Dimethylphenol	122	5.313	5.313	0.934	85030	20.61	ng/uL	99
28) bis(2-Chloroethoxy)met...	93	5.420	5.420	0.953	132059	20.87	ng/uL	99
29) 2,4-Dichlorophenol	162	5.533	5.532	0.973	97344	20.50	ng/uL	99

Quantitation Report

Data Path : C:\msdchem\1\data\S071123ICAL\
Data File : s4G1104.D
Acq On : 11 Jul 2023 18:26
Operator : NM1
Sample : |WBN230627-03.2|ICAL|1|SVM|1|M-3
Misc : |MIX[A]
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 13 10:09:33 2023
Quant Method : C:\msdchem\1\data\S071123ICAL\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:54:56 2023
Response via : Initial Calibration

Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	
30) Benzoic acid	105	5.372	5.393	0.945	52378	20.45	ng/uL	95
31) 1,2,4-Trichlorobenzene	180	5.624	5.629	0.989	108550	20.97	ng/uL	99
32) alpha-Terpineol	59	5.709	5.714	1.004	87399	20.54	ng/uL	99
33) Naphthalene	128	5.709	5.709	1.004	343293	21.59	ng/uL	99
34) 4-Chloroaniline	127	5.757	5.757	1.012	140250	21.19	ng/uL	99
35) Hexachlorobutadiene	225	5.832	5.832	1.025	65048	20.97	ng/uL	100
36) 4-Chloro-3-methylphenol	107	6.233	6.233	1.096	94294	20.68	ng/uL	99
37) 2-Methylnaphthalene	142	6.394	6.399	1.124	222656	21.46	ng/uL	98
38) 1-Methylnaphthalene	142	6.490	6.490	1.141	218857	21.45	ng/uL	99
40) Hexachlorocyclopentadiene	237	6.544	6.543	0.889	68239	20.17	ng/uL	99
41) 2,3-Dichloroaniline	161	6.661	6.661	0.905	122119	20.95	ng/uL	98
42) 2,4,6-Trichlorophenol	196	6.656	6.661	0.904	73789	20.82	ng/uL	100
43) 2,4,5-Trichlorophenol	196	6.693	6.693	0.909	78147	20.52	ng/uL	98
45) 2-Chloronaphthalene	162	6.854	6.859	0.931	218313	21.41	ng/uL	100
46) o-Nitroaniline	65	6.945	6.944	0.943	57478	20.57	ng/uL	99
47) 1,4-Dinitrobenzene	168	7.068	7.073	0.960	33105	19.35	ng/uL	99
48) m-Nitroaniline	138	7.314	7.314	0.993	65044	20.40	ng/uL	97
49) Dimethylphthalate	163	7.105	7.105	0.965	261977	21.92	ng/uL	99
50) m-Dinitrobenzene	168	7.132	7.137	0.969	39045	20.01	ng/uL	100
51) 2,6-Dinitrotoluene	165	7.164	7.164	0.973	58604	20.79	ng/uL	99
52) 2,4-Dinitrotoluene	165	7.517	7.522	1.021	75549	20.10	ng/uL	97
53) Acenaphthylene	152	7.239	7.239	0.983	361942	21.73	ng/uL	100
54) Acenaphthene	153	7.389	7.394	1.004	235580	21.54	ng/uL	99
55) 2,4-Dinitrophenol	184	7.405	7.410	1.006	21930	20.85	ng/uL	98
56) Dibenzofuran	168	7.544	7.544	1.025	327802	21.63	ng/uL	98
57) 2,3,4,6-Tetrachlorophenol	232	7.645	7.645	1.039	67945	20.55	ng/uL	98
58) Diethylphthalate	149	7.726	7.725	1.049	259724	21.55	ng/uL	99
59) 4-Nitrophenol	109	7.453	7.453	1.012	28931	19.77	ng/uL	99
60) Fluorene	166	7.843	7.848	1.065	264354	21.72	ng/uL	99
61) 4-Chlorophenylphenylether	204	7.838	7.838	1.065	128510	21.18	ng/uL	99
62) p-Nitroaniline	138	7.849	7.854	1.066	67565	20.06	ng/uL	98
65) 2-Methyl-4,6-dinitroph...	198	7.875	7.875	0.910	32080	19.18	ng/uL	99
66) Diphenylamine	169	7.934	7.939	0.917	224149	21.26	ng/uL	99
67) 1,2-Diphenylhydrazine	77	7.972	7.977	0.921	240403	21.09	ng/uL	100
68) 4-Bromophenylphenylether	248	8.260	8.260	0.954	84560	20.36	ng/uL	99
69) Hexachlorobenzene	284	8.319	8.319	0.961	109813	20.45	ng/uL	99
70) Pentachlorophenol	266	8.480	8.485	0.980	51771	19.83	ng/uL	98
71) n-Octadecane	57	8.517	8.517	0.984	144459	20.64	ng/uL	99
72) Dinoseb	211	8.624	8.624	0.996	52406	19.35	ng/uL	98
73) Phenanthrene	178	8.672	8.677	1.002	391549	21.70	ng/uL	100
74) Anthracene	178	8.720	8.720	1.007	399653	21.83	ng/uL	99
75) Carbazole	167	8.843	8.849	1.022	363608	21.67	ng/uL	99
76) Di-n-butylphthalate	149	9.111	9.111	1.053	445929	21.85	ng/uL	100
77) Fluoranthene	202	9.678	9.683	1.118	434982	21.89	ng/uL	99
78) Pyrene	202	9.876	9.876	1.141	450488	21.59	ng/uL	99
81) Butylbenzylphthalate	149	10.448	10.448	0.937	190057	21.14	ng/uL	100
82) bis(2-Ethylhexyl)phtha...	149	11.111	11.116	0.996	290906	21.44	ng/uL	99
83) Benzo(a)anthracene	228	11.138	11.138	0.999	471425	21.60	ng/uL	99
84) Chrysene	228	11.186	11.186	1.003	420294	21.37	ng/uL	100
85) Methoxychlor	227	11.020	11.020	0.988	277428	20.25	ng/uL	99
86) Methylenebis(2-chloroa...	231	11.085	11.090	0.994	94380	20.21	ng/uL	99
87) Di-n-octylphthalate	149	12.095	12.101	1.084	475372	21.32	ng/uL	99
89) Benzo(b)fluoranthene	252	12.796	12.801	0.946	492258	21.17	ng/uL	100
90) Benzo(k)fluoranthene	252	12.850	12.855	0.950	462031	21.15	ng/uL	99
91) Benzo(a)pyrene	252	13.411	13.416	0.992	431958	21.21	ng/uL	99
92) Indeno(1,2,3-cd)pyrene	276	15.797	15.807	1.168	508113	20.97	ng/uL	100
93) Dibenzo(a,h)anthracene	278	15.855	15.866	1.172	505115	20.94	ng/uL	100

Quantitation Report

Data Path : C:\msdchem\1\data\S071123ICAL\
Data File : s4G1104.D
Acq On : 11 Jul 2023 18:26
Operator : NM1
Sample : |WBN230627-03.2|ICAL|1|SVM|1|M-3
Misc : |MIX[A]
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 13 10:09:33 2023
Quant Method : C:\msdchem\1\data\S071123ICAL\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:54:56 2023
Response via : Initial Calibration

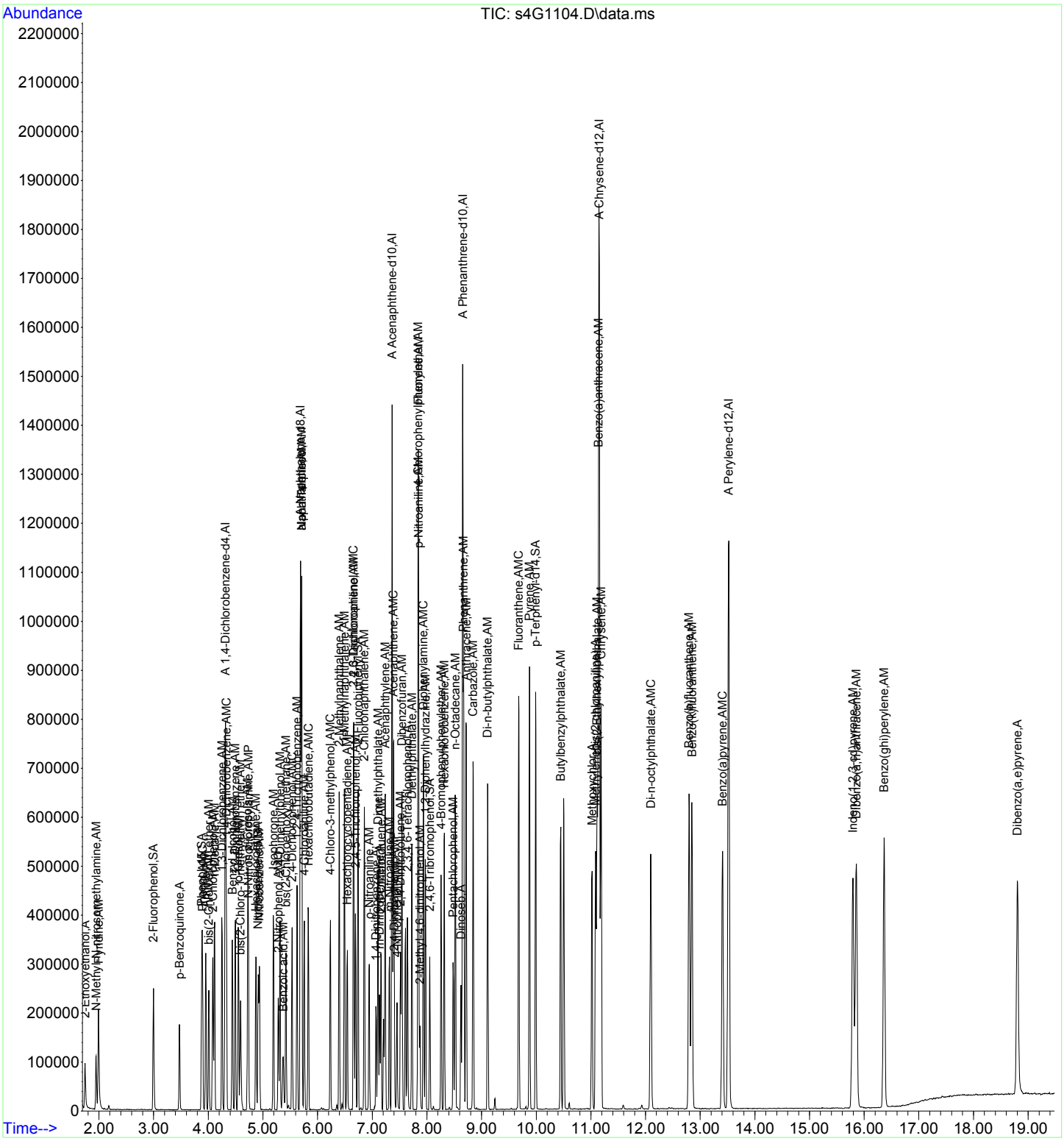
Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	
94) Benzo(ghi)perylene	276	16.364	16.374	1.210	500285	21.14	ng/uL	100
95) Dibenzo(a,e)pyrene	302	18.803	18.813	1.390	432518	19.96	ng/uL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(A) = Over the calibration range (d) = deleted

Quantitation Report

Data Path : C:\msdchem\1\data\S071123ICAL\
Data File : s4G1104.D
Acq On : 11 Jul 2023 18:26
Operator : NM1
Sample : |WBN230627-03.2|ICAL|1|SVM|1|M-3
Misc : |MIX[A]
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 13 10:09:33 2023
Quant Method : C:\msdchem\1\data\S071123ICAL\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:54:56 2023
Response via : Initial Calibration



Quantitation Report

07/13/2023

Data Path : C:\msdchem\1\data\S071123ICAL\
Data File : s4G1105.D
Acq On : 11 Jul 2023 18:51
Operator : NM1
Sample : |WBN230627-04.7|ICAL|1|SVM|1|M-4
Misc : |MIX[A]
ALS Vial : 5 Sample Multiplier: 1

07/13/2023

Quant Time: Jul 13 09:53:09 2023
Quant Method : C:\msdchem\1\data\S071123ICAL\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:53:09 2023
Response via : Initial Calibration

Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	Dev(Min)
Internal Standards								
1) A 1,4-Dichlorobenzene-d4	152	4.313	4.313	1.000	180474	40.00	ng/uL	0.00
22) A Naphthalene-d8	136	5.688	5.688	1.000	797283	40.00	ng/uL	0.00
39) A Acenaphthene-d10	164	7.362	7.362	1.000	390701	40.00	ng/uL	0.00
64) A Phenanthrene-d10	188	8.656	8.656	1.000	796429	40.00	ng/uL	0.00
80) A Chrysene-d12	240	11.154	11.154	1.000	926207	40.00	ng/uL	0.00
88) A Perylene-d12	264	13.523	13.523	1.000	1038533	40.00	ng/uL	0.00
96) B 1,4-Dichlorobenzene-d4	152	4.313	4.313	1.000	0m	40.00	ng/uL	0.00
112) B Naphthalene-d8	136	5.688	5.688	1.000	0m	40.00	ng/uL	0.00
120) B Acenaphthene-d10	164	7.362	7.362	1.000	0m	40.00	ng/uL	0.00
129) B Phenanthrene-d10	188	8.656	8.656	1.000	0m	40.00	ng/uL	0.00
142) B Chrysene-d12	240	11.154	11.154	1.000	0m	40.00	ng/uL	0.00
148) B Perylene-d12	264	13.523	13.523	1.000	0m	40.00	ng/uL	0.00
151) J Naphthalene-d8	136	5.688	5.688	1.000	0m	40.00	ng/uL	0.00
153) J Phenanthrene-d10	188	8.656	8.656	1.000	0m	40.00	ng/uL	0.00
156) J Chrysene-d12	240	11.154	11.154	1.000	0m	40.00	ng/uL	0.00
159) D Naphthalene-d8	136	5.688	5.688	1.000	0m	40.00	ng/uL	0.00
161) D Acenaphthene-d10	164	7.362	7.362	1.000	0m	40.00	ng/uL	0.00
164) D Phenanthrene-d10	188	8.656	8.656	1.000	0m	40.00	ng/uL	0.00
171) D Chrysene-d12	240	11.154	11.154	1.000	0m	40.00	ng/uL	0.00
173) E Naphthalene-d8	136	5.688	5.688	1.000	0m	40.00	ng/uL	0.00
175) E Perylene-d12	264	13.523	13.540	1.000	0m	40.00	ng/uL	-0.02
System Monitoring Compounds								Dev(Min)
5) 2-Fluorophenol	112	2.997	2.997	0.695	220843	39.37	ng/uL	0.00
8) Phenol-d5	99	3.880	3.880	0.900	273802	39.46	ng/uL	0.00
23) Nitrobenzene-d5	82	4.917	4.917	0.865	260181	38.93	ng/uL	0.00
44) 2-Fluorobiphenyl	172	6.741	6.741	0.916	590331	40.77	ng/uL	0.00
63) 2,4,6-Tribromophenol	330	8.052	8.052	1.094	141453	39.85	ng/uL	0.00
79) p-Terphenyl-d14	244	9.993	9.993	1.154	896516	41.37	ng/uL	0.00
Target Compounds	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	QValue
2) 2-Ethoxyethanol	59	1.746	1.746	0.405	124463	41.19	ng/uL	100
3) N-Methyl-N-nitrosometh...	74	1.949	1.949	0.452	153238	42.18	ng/uL	100
4) Pyridine	79	1.992	1.992	0.462	250759	40.35	ng/uL	100
6) p-Benzoquinone	54	3.473	3.473	0.805	108462	40.26	ng/uL	100
7) Aniline	93	3.955	3.955	0.917	353683	41.06	ng/uL	100
9) Phenol	94	3.896	3.896	0.903	302455	40.39	ng/uL	100
10) bis(2-Chloroethyl) ether	93	4.013	4.013	0.931	238408	40.88	ng/uL	100
11) 2-Chlorophenol	128	4.083	4.083	0.947	259816	40.78	ng/uL	100
12) n-Decane	43	4.115	4.115	0.954	212118	40.29	ng/uL	100
13) 1,3-Dichlorobenzene	146	4.254	4.254	0.986	287423	40.49	ng/uL	100
14) 1,4-Dichlorobenzene	146	4.329	4.329	1.004	295988	40.65	ng/uL	100
15) 1,2-Dichlorobenzene	146	4.495	4.495	1.042	279218	40.61	ng/uL	100
16) bis(2-Chloro-1-methyle...	45	4.591	4.591	1.064	279914	41.01	ng/uL	100
17) Benzyl alcohol	108	4.441	4.441	1.030	173793	41.23	ng/uL	100
18) o-Cresol	107	4.554	4.554	1.056	207190	40.71	ng/uL	100
19) m,p-Cresols	108	4.725	4.725	1.095	245937	40.94	ng/uL	100
20) N-Nitrosodipropylamine	70	4.735	4.735	1.098	175534	40.72	ng/uL	100
21) Hexachloroethane	117	4.875	4.875	1.130	105075	40.52	ng/uL	100
24) Nitrobenzene	77	4.939	4.939	0.868	260543	39.06	ng/uL	100
25) Isophorone	82	5.195	5.195	0.913	483048	39.53	ng/uL	100
26) 2-Nitrophenol	139	5.281	5.281	0.929	134017	38.52	ng/uL	100
27) 2,4-Dimethylphenol	122	5.313	5.313	0.934	196976	39.19	ng/uL	99
28) bis(2-Chloroethoxy)met...	93	5.420	5.420	0.953	303309	39.34	ng/uL	100
29) 2,4-Dichlorophenol	162	5.532	5.532	0.973	225000	38.89	ng/uL	100

Quantitation Report

Data Path : C:\msdchem\1\data\S071123ICAL\
Data File : s4G1105.D
Acq On : 11 Jul 2023 18:51
Operator : NM1
Sample : |WBN230627-04.7|ICAL|1|SVM|1|M-4
Misc : |MIX[A]
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 13 09:53:09 2023
Quant Method : C:\msdchem\1\data\S071123ICAL\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:53:09 2023
Response via : Initial Calibration

Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	
30) Benzoic acid	105	5.393	5.393	0.948	148620	38.02	ng/uL	100
31) 1,2,4-Trichlorobenzene	180	5.629	5.629	0.990	247922	39.30	ng/uL	100
32) alpha-Terpineol	59	5.714	5.714	1.005	203075	39.17	ng/uL	100
33) Naphthalene	128	5.709	5.709	1.004	771840	39.84	ng/uL	100
34) 4-Chloroaniline	127	5.757	5.757	1.012	315862	39.17	ng/uL	100
35) Hexachlorobutadiene	225	5.832	5.832	1.025	147777	39.11	ng/uL	100
36) 4-Chloro-3-methylphenol	107	6.233	6.233	1.096	217389	39.12	ng/uL	100
37) 2-Methylnaphthalene	142	6.399	6.399	1.125	506724	40.08	ng/uL	100
38) 1-Methylnaphthalene	142	6.490	6.490	1.141	493963	39.73	ng/uL	100
40) Hexachlorocyclopentadiene	237	6.543	6.543	0.889	162197	40.53	ng/uL	100
41) 2,3-Dichloroaniline	161	6.661	6.661	0.905	281340	40.80	ng/uL	100
42) 2,4,6-Trichlorophenol	196	6.661	6.661	0.905	168898	40.28	ng/uL	100
43) 2,4,5-Trichlorophenol	196	6.693	6.693	0.909	180610	40.09	ng/uL	99
45) 2-Chloronaphthalene	162	6.859	6.859	0.932	498739	41.35	ng/uL	100
46) o-Nitroaniline	65	6.944	6.944	0.943	131827	39.89	ng/uL	100
47) 1,4-Dinitrobenzene	168	7.073	7.073	0.961	79757	39.42	ng/uL	100
48) m-Nitroaniline	138	7.314	7.314	0.993	154968	41.08	ng/uL	100
49) Dimethylphthalate	163	7.105	7.105	0.965	591694	41.86	ng/uL	100
50) m-Dinitrobenzene	168	7.137	7.137	0.969	93607	40.56	ng/uL	100
51) 2,6-Dinitrotoluene	165	7.164	7.164	0.973	136151	40.83	ng/uL	100
52) 2,4-Dinitrotoluene	165	7.522	7.522	1.022	179722	40.42	ng/uL	100
53) Acenaphthylene	152	7.239	7.239	0.983	821732	41.71	ng/uL	100
54) Acenaphthene	153	7.394	7.394	1.004	539421	41.70	ng/uL	100
55) 2,4-Dinitrophenol	184	7.410	7.410	1.007	61092	38.65	ng/uL	100
56) Dibenzofuran	168	7.544	7.544	1.025	731794	40.81	ng/uL	100
57) 2,3,4,6-Tetrachlorophenol	232	7.645	7.645	1.039	156950	40.13	ng/uL	100
58) Diethylphthalate	149	7.725	7.725	1.049	593259	41.62	ng/uL	100
59) 4-Nitrophenol	109	7.453	7.453	1.012	71037	41.04	ng/uL	100
60) Fluorene	166	7.848	7.848	1.066	595468	41.36	ng/uL	100
61) 4-Chlorophenylphenylether	204	7.838	7.838	1.065	290452	40.47	ng/uL	100
62) p-Nitroaniline	138	7.854	7.854	1.067	161629	40.58	ng/uL	100
65) 2-Methyl-4,6-dinitroph...	198	7.875	7.875	0.910	87070	39.34	ng/uL	100
66) Diphenylamine	169	7.939	7.939	0.917	505442	40.80	ng/uL	100
67) 1,2-Diphenylhydrazine	77	7.977	7.977	0.922	545969	40.76	ng/uL	100
68) 4-Bromophenylphenylether	248	8.260	8.260	0.954	196795	40.33	ng/uL	100
69) Hexachlorobenzene	284	8.319	8.319	0.961	254006	40.26	ng/uL	100
70) Pentachlorophenol	266	8.485	8.485	0.980	131182	39.51	ng/uL	100
71) n-Octadecane	57	8.517	8.517	0.984	335103	40.75	ng/uL	100
72) Dinoseb	211	8.624	8.624	0.996	140763	39.32	ng/uL	100
73) Phenanthrene	178	8.677	8.677	1.002	883171	41.65	ng/uL	100
74) Anthracene	178	8.720	8.720	1.007	901114	41.89	ng/uL	100
75) Carbazole	167	8.849	8.849	1.022	816140	41.39	ng/uL	100
76) Di-n-butylphthalate	149	9.111	9.111	1.053	1012978	42.25	ng/uL	100
77) Fluoranthene	202	9.683	9.683	1.119	982447	42.08	ng/uL	100
78) Pyrene	202	9.876	9.876	1.141	1018056	41.53	ng/uL	100
81) Butylbenzylphthalate	149	10.448	10.448	0.937	453865	42.03	ng/uL	100
82) bis(2-Ethylhexyl)phtha...	149	11.116	11.116	0.997	688986	42.27	ng/uL	100
83) Benzo(a)anthracene	228	11.138	11.138	0.999	1066092	40.67	ng/uL	100
84) Chrysene	228	11.186	11.186	1.003	974759	41.26	ng/uL	100
85) Methoxychlor	227	11.020	11.020	0.988	670957	40.78	ng/uL	100
86) Methylenebis(2-chloroa...	231	11.090	11.090	0.994	225552	40.21	ng/uL	100
87) Di-n-octylphthalate	149	12.101	12.101	1.085	1144263	42.74	ng/uL	100
89) Benzo(b)fluoranthene	252	12.801	12.801	0.947	1141039	40.96	ng/uL	100
90) Benzo(k)fluoranthene	252	12.855	12.855	0.951	1088016	41.57	ng/uL	100
91) Benzo(a)pyrene	252	13.416	13.416	0.992	1004301	41.16	ng/uL	100
92) Indeno(1,2,3-cd)pyrene	276	15.807	15.807	1.169	1180320	40.67	ng/uL	100
93) Dibenzo(a,h)anthracene	278	15.866	15.866	1.173	1196330	41.39	ng/uL	100

Quantitation Report

Data Path : C:\msdchem\1\data\S071123ICAL\
Data File : s4G1105.D
Acq On : 11 Jul 2023 18:51
Operator : NM1
Sample : |WBN230627-04.7|ICAL|1|SVM|1|M-4
Misc : |MIX[A]
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 13 09:53:09 2023
Quant Method : C:\msdchem\1\data\S071123ICAL\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:53:09 2023
Response via : Initial Calibration

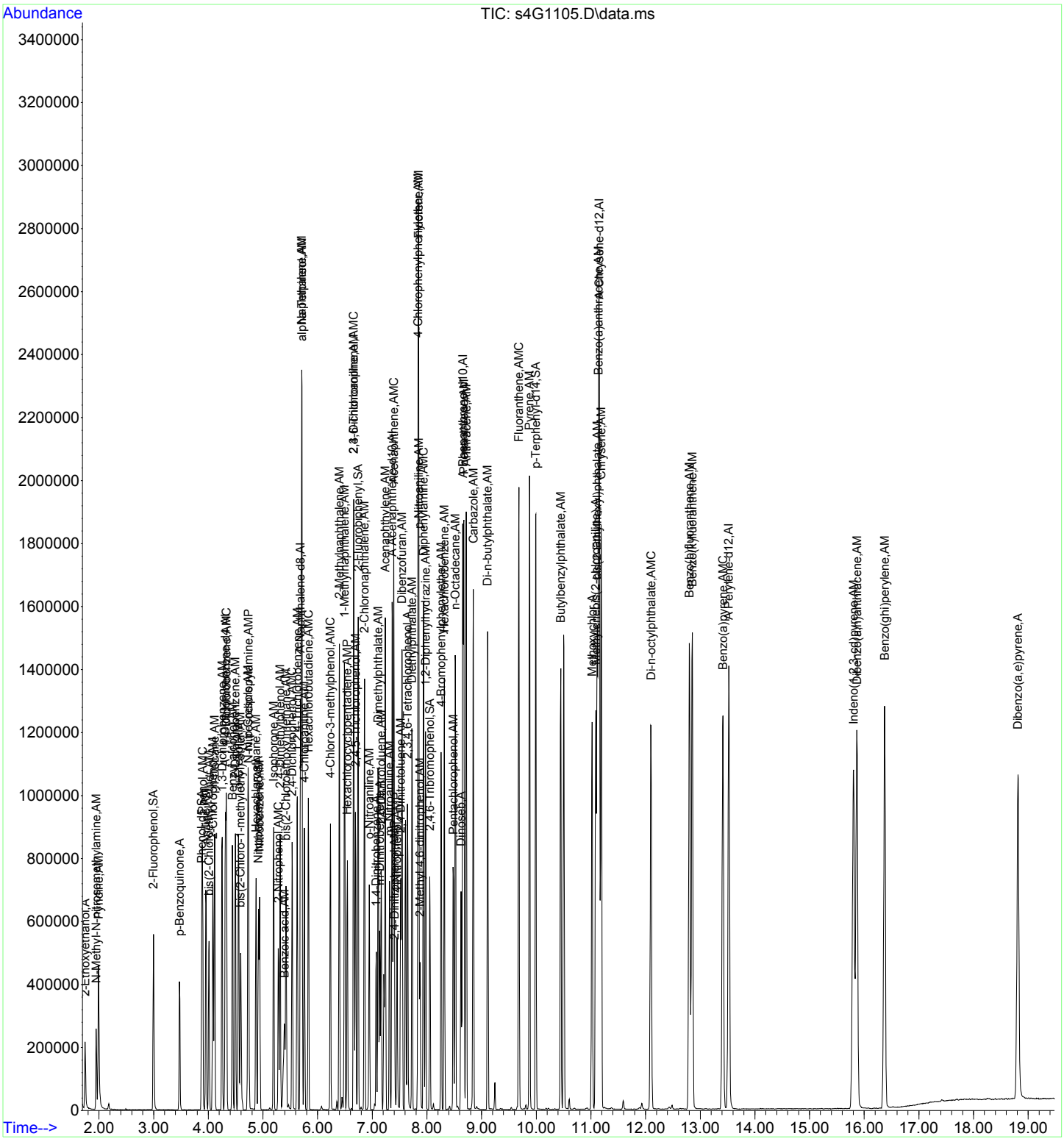
Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	
94) Benzo(ghi)perylene	276	16.374	16.374	1.211	1166309	41.14	ng/uL	100
95) Dibenzo(a,e)pyrene	302	18.813	18.813	1.391	998053	38.44	ng/uL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(A) = Over the calibration range (d) = deleted

Quantitation Report

Data Path : C:\msdchem\1\data\S071123ICAL\
Data File : s4G1105.D
Acq On : 11 Jul 2023 18:51
Operator : NM1
Sample : |WBN230627-04.7|ICAL|1|SVM|1|M-4
Misc : |MIX[A]
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 13 09:53:09 2023
Quant Method : C:\msdchem\1\data\S071123ICAL\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:53:09 2023
Response via : Initial Calibration



Quantitation Report

07/13/2023

Data Path : C:\msdchem\1\data\S071123ICAL\
Data File : s4G1106.D
Acq On : 11 Jul 2023 19:15
Operator : NM1
Sample : |WBN230627-05|ICAL|1|SVM|1|M-5
Misc : |MIX[A]
ALS Vial : 6 Sample Multiplier: 1

07/13/2023

Quant Time: Jul 13 09:53:17 2023
Quant Method : C:\msdchem\1\data\S071123ICAL\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:53:17 2023
Response via : Initial Calibration

Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	Dev(Min)
Internal Standards								Dev(Min)
1) A 1,4-Dichlorobenzene-d4	152	4.313	4.313	1.000	167398	40.00	ng/uL	0.00
22) A Naphthalene-d8	136	5.688	5.688	1.000	697318	40.00	ng/uL	0.00
39) A Acenaphthene-d10	164	7.362	7.362	1.000	356545	40.00	ng/uL	0.00
64) A Phenanthrene-d10	188	8.656	8.656	1.000	723392	40.00	ng/uL	0.00
80) A Chrysene-d12	240	11.154	11.154	1.000	844758	40.00	ng/uL	0.00
88) A Perylene-d12	264	13.523	13.523	1.000	943742	40.00	ng/uL	0.00
96) B 1,4-Dichlorobenzene-d4	152	4.313	4.313	1.000	0m	40.00	ng/uL	0.00
112) B Naphthalene-d8	136	5.688	5.688	1.000	0m	40.00	ng/uL	0.00
120) B Acenaphthene-d10	164	7.362	7.362	1.000	0m	40.00	ng/uL	0.00
129) B Phenanthrene-d10	188	8.656	8.656	1.000	0m	40.00	ng/uL	0.00
142) B Chrysene-d12	240	11.154	11.154	1.000	0m	40.00	ng/uL	0.00
148) B Perylene-d12	264	13.523	13.523	1.000	0m	40.00	ng/uL	0.00
151) J Naphthalene-d8	136	5.688	5.688	1.000	0m	40.00	ng/uL	0.00
153) J Phenanthrene-d10	188	8.656	8.656	1.000	0m	40.00	ng/uL	0.00
156) J Chrysene-d12	240	11.154	11.154	1.000	0m	40.00	ng/uL	0.00
159) D Naphthalene-d8	136	5.688	5.688	1.000	0m	40.00	ng/uL	0.00
161) D Acenaphthene-d10	164	7.362	7.362	1.000	0m	40.00	ng/uL	0.00
164) D Phenanthrene-d10	188	8.656	8.656	1.000	0m	40.00	ng/uL	0.00
171) D Chrysene-d12	240	11.154	11.154	1.000	0m	40.00	ng/uL	0.00
173) E Naphthalene-d8	136	5.688	5.688	1.000	0m	40.00	ng/uL	0.00
175) E Perylene-d12	264	13.523	13.540	1.000	0m	40.00	ng/uL	-0.02
System Monitoring Compounds								Dev(Min)
5) 2-Fluorophenol	112	2.997	2.997	0.695	259050	49.79	ng/uL	0.00
8) Phenol-d5	99	3.880	3.880	0.900	321201	49.91	ng/uL	0.00
23) Nitrobenzene-d5	82	4.917	4.917	0.865	300627	51.43	ng/uL	0.00
44) 2-Fluorobiphenyl	172	6.741	6.741	0.916	669837	50.69	ng/uL	0.00
63) 2,4,6-Tribromophenol	330	8.052	8.052	1.094	162939	50.30	ng/uL	0.00
79) p-Terphenyl-d14	244	9.993	9.993	1.154	1019357	51.78	ng/uL	0.00
Target Compounds	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	QValue
2) 2-Ethoxyethanol	59	1.740	1.746	0.404	145182	51.80	ng/uL	99
3) N-Methyl-N-nitrosometh...	74	1.944	1.949	0.451	175219	52.00	ng/uL	99
4) Pyridine	79	1.986	1.992	0.461	290872	50.46	ng/uL	99
6) p-Benzoquinone	54	3.473	3.473	0.805	128740	51.52	ng/uL	97
7) Aniline	93	3.955	3.955	0.917	406321	50.85	ng/uL	100
9) Phenol	94	3.896	3.896	0.903	350363	50.45	ng/uL	100
10) bis(2-Chloroethyl) ether	93	4.008	4.013	0.929	272872	50.45	ng/uL	99
11) 2-Chlorophenol	128	4.083	4.083	0.947	299201	50.63	ng/uL	100
12) n-Decane	43	4.115	4.115	0.954	245729	50.32	ng/uL	100
13) 1,3-Dichlorobenzene	146	4.254	4.254	0.986	329701	50.07	ng/uL	99
14) 1,4-Dichlorobenzene	146	4.329	4.329	1.004	339909	50.33	ng/uL	99
15) 1,2-Dichlorobenzene	146	4.495	4.495	1.042	321873	50.47	ng/uL	100
16) bis(2-Chloro-1-methyle...	45	4.591	4.591	1.064	319874	50.53	ng/uL	99
17) Benzyl alcohol	108	4.441	4.441	1.030	199824	51.11	ng/uL	100
18) o-Cresol	107	4.554	4.554	1.056	239967	50.84	ng/uL	99
19) m,p-Cresols	108	4.725	4.725	1.095	282061	50.62	ng/uL	100
20) N-Nitrosodipropylamine	70	4.736	4.735	1.098	201102	50.30	ng/uL	100
21) Hexachloroethane	117	4.875	4.875	1.130	122173	50.80	ng/uL	100
24) Nitrobenzene	77	4.939	4.939	0.868	296219	50.78	ng/uL	99
25) Isophorone	82	5.196	5.195	0.913	548898	51.35	ng/uL	100
26) 2-Nitrophenol	139	5.281	5.281	0.929	159128	52.30	ng/uL	98
27) 2,4-Dimethylphenol	122	5.313	5.313	0.934	226007	51.41	ng/uL	98
28) bis(2-Chloroethoxy)met...	93	5.420	5.420	0.953	344402	51.07	ng/uL	98
29) 2,4-Dichlorophenol	162	5.533	5.532	0.973	258598	51.10	ng/uL	100

Quantitation Report

Data Path : C:\msdchem\1\data\S071123ICAL\
Data File : s4G1106.D
Acq On : 11 Jul 2023 19:15
Operator : NM1
Sample : |WBN230627-05|ICAL|1|SVM|1|M-5
Misc : |MIX[A]
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 13 09:53:17 2023
Quant Method : C:\msdchem\1\data\S071123ICAL\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:53:17 2023
Response via : Initial Calibration

Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	
30) Benzoic acid	105	5.399	5.393	0.949	180096	49.90	ng/uL	99
31) 1,2,4-Trichlorobenzene	180	5.623	5.629	0.989	282205	51.15	ng/uL	99
32) alpha-Terpineol	59	5.714	5.714	1.005	233808	51.56	ng/uL	99
33) Naphthalene	128	5.709	5.709	1.004	874126	51.59	ng/uL	100
34) 4-Chloroaniline	127	5.757	5.757	1.012	362135	51.34	ng/uL	99
35) Hexachlorobutadiene	225	5.832	5.832	1.025	169958	51.42	ng/uL	100
36) 4-Chloro-3-methylphenol	107	6.233	6.233	1.096	248207	51.07	ng/uL	99
37) 2-Methylnaphthalene	142	6.399	6.399	1.125	574640	51.97	ng/uL	99
38) 1-Methylnaphthalene	142	6.490	6.490	1.141	561289	51.62	ng/uL	100
40) Hexachlorocyclopentadiene	237	6.543	6.543	0.889	184342	50.47	ng/uL	99
41) 2,3-Dichloroaniline	161	6.661	6.661	0.905	319922	50.84	ng/uL	98
42) 2,4,6-Trichlorophenol	196	6.661	6.661	0.905	194919	50.94	ng/uL	100
43) 2,4,5-Trichlorophenol	196	6.693	6.693	0.909	209341	50.92	ng/uL	98
45) 2-Chloronaphthalene	162	6.859	6.859	0.932	569860	51.77	ng/uL	99
46) o-Nitroaniline	65	6.945	6.944	0.943	152972	50.72	ng/uL	99
47) 1,4-Dinitrobenzene	168	7.073	7.073	0.961	95690	51.82	ng/uL	96
48) m-Nitroaniline	138	7.314	7.314	0.993	173099	50.28	ng/uL	97
49) Dimethylphthalate	163	7.110	7.105	0.966	673067	52.18	ng/uL	100
50) m-Dinitrobenzene	168	7.137	7.137	0.969	106504	50.56	ng/uL	97
51) 2,6-Dinitrotoluene	165	7.164	7.164	0.973	155361	51.06	ng/uL	100
52) 2,4-Dinitrotoluene	165	7.522	7.522	1.022	209232	51.57	ng/uL	95
53) Acenaphthylene	152	7.239	7.239	0.983	937673	52.16	ng/uL	100
54) Acenaphthene	153	7.394	7.394	1.004	606380	51.37	ng/uL	99
55) 2,4-Dinitrophenol	184	7.410	7.410	1.007	73683	48.59	ng/uL	99
56) Dibenzofuran	168	7.544	7.544	1.025	831153	50.80	ng/uL	100
57) 2,3,4,6-Tetrachlorophenol	232	7.645	7.645	1.039	179625	50.33	ng/uL	98
58) Diethylphthalate	149	7.725	7.725	1.049	669556	51.47	ng/uL	99
59) 4-Nitrophenol	109	7.453	7.453	1.012	82511	52.23	ng/uL	98
60) Fluorene	166	7.848	7.848	1.066	681062	51.84	ng/uL	99
61) 4-Chlorophenylphenylether	204	7.838	7.838	1.065	330863	50.51	ng/uL	100
62) p-Nitroaniline	138	7.854	7.854	1.067	184557	50.77	ng/uL	100
65) 2-Methyl-4,6-dinitroph...	198	7.875	7.875	0.910	101904	49.60	ng/uL	98
66) Diphenylamine	169	7.939	7.939	0.917	574965	51.09	ng/uL	99
67) 1,2-Diphenylhydrazine	77	7.977	7.977	0.922	621185	51.06	ng/uL	100
68) 4-Bromophenylphenylether	248	8.260	8.260	0.954	225529	50.88	ng/uL	99
69) Hexachlorobenzene	284	8.319	8.319	0.961	291075	50.80	ng/uL	99
70) Pentachlorophenol	266	8.485	8.485	0.980	151728	49.54	ng/uL	99
71) n-Octadecane	57	8.517	8.517	0.984	381895	51.13	ng/uL	99
72) Dinoseb	211	8.624	8.624	0.996	164376	49.47	ng/uL	99
73) Phenanthrene	178	8.678	8.677	1.002	1004006	52.13	ng/uL	100
74) Anthracene	178	8.720	8.720	1.007	1014712	51.94	ng/uL	99
75) Carbazole	167	8.849	8.849	1.022	937635	52.35	ng/uL	100
76) Di-n-butylphthalate	149	9.111	9.111	1.053	1136012	52.16	ng/uL	99
77) Fluoranthene	202	9.683	9.683	1.119	1116825	52.67	ng/uL	99
78) Pyrene	202	9.881	9.876	1.142	1170419	52.56	ng/uL	100
81) Butylbenzylphthalate	149	10.448	10.448	0.937	511538	51.94	ng/uL	100
82) bis(2-Ethylhexyl)phtha...	149	11.117	11.116	0.997	784698	52.79	ng/uL	100
83) Benzo(a)anthracene	228	11.138	11.138	0.999	1216883	50.89	ng/uL	100
84) Chrysene	228	11.191	11.186	1.003	1118047	51.89	ng/uL	100
85) Methoxychlor	227	11.020	11.020	0.988	769726	51.29	ng/uL	100
86) Methylenebis(2-chloroa...	231	11.090	11.090	0.994	261896	51.19	ng/uL	98
87) Di-n-octylphthalate	149	12.101	12.101	1.085	1286599	52.68	ng/uL	99
89) Benzo(b)fluoranthene	252	12.807	12.801	0.947	1299050	51.32	ng/uL	100
90) Benzo(k)fluoranthene	252	12.855	12.855	0.951	1256799	52.84	ng/uL	100
91) Benzo(a)pyrene	252	13.416	13.416	0.992	1159021	52.27	ng/uL	100
92) Indeno(1,2,3-cd)pyrene	276	15.807	15.807	1.169	1379168	52.29	ng/uL	99
93) Dibenzo(a,h)anthracene	278	15.866	15.866	1.173	1378505	52.48	ng/uL	100

Quantitation Report

Data Path : C:\msdchem\1\data\S071123ICAL\
Data File : s4G1106.D
Acq On : 11 Jul 2023 19:15
Operator : NM1
Sample : |WBN230627-05|ICAL|1|SVM|1|M-5
Misc : |MIX[A]
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 13 09:53:17 2023
Quant Method : C:\msdchem\1\data\S071123ICAL\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:53:17 2023
Response via : Initial Calibration

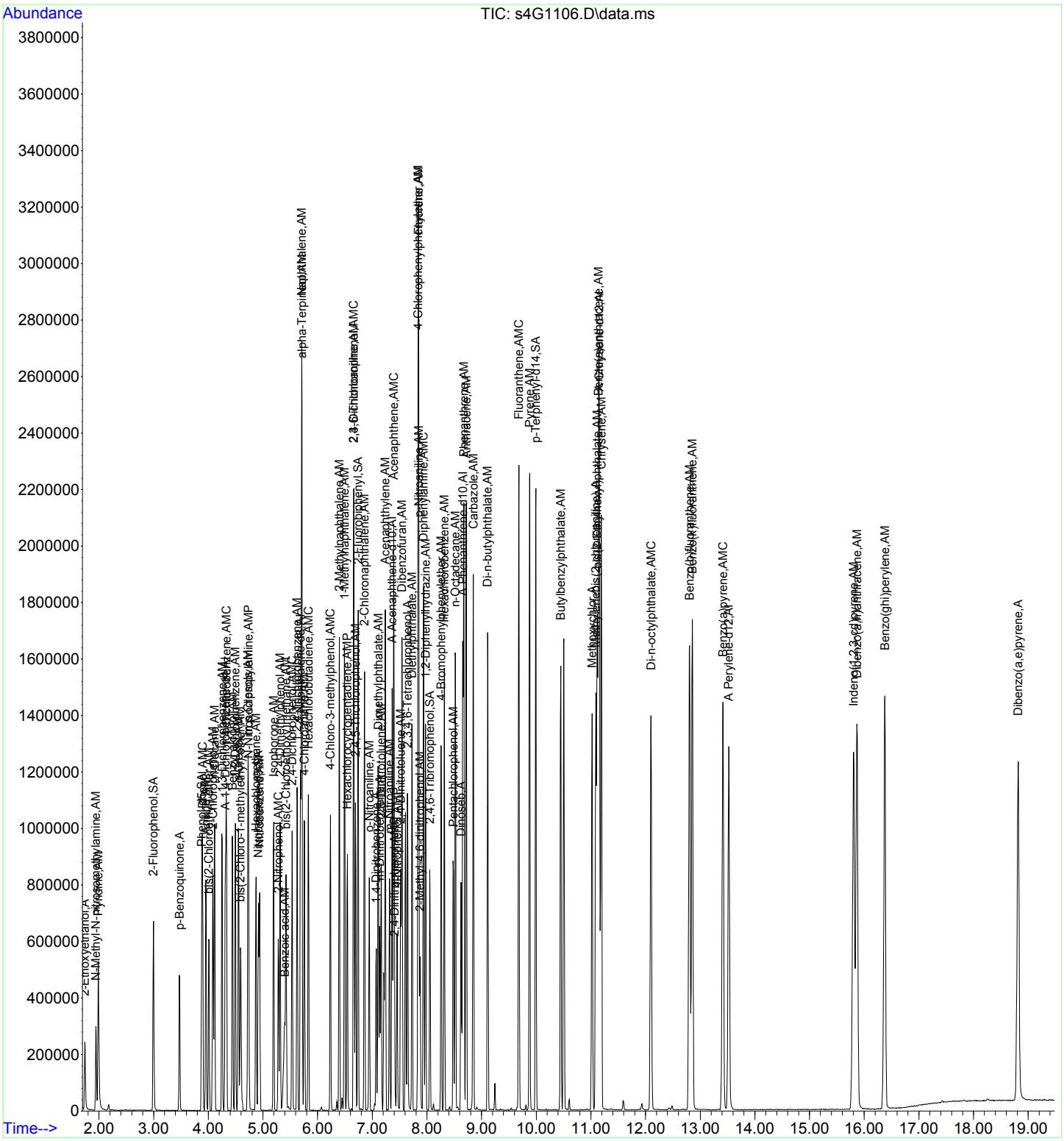
Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	
94) Benzo(ghi)perylene	276	16.380	16.374	1.211	1345481	52.23	ng/uL	100
95) Dibenzo(a,e)pyrene	302	18.819	18.813	1.392	1174790	49.79	ng/uL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(A) = Over the calibration range (d) = deleted

Quantitation Report

Data Path : C:\msdchem\1\data\S071123ICAL\
Data File : s4G1106.D
Acq On : 11 Jul 2023 19:15
Operator : NM1
Sample : |WBN230627-05|ICAL|1|SVM|1|M-5
Misc : |MIX[A]
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 13 09:53:17 2023
Quant Method : C:\msdchem\1\data\S071123ICAL\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:53:17 2023
Response via : Initial Calibration



Quantitation Report

07/13/2023

Data Path : C:\msdchem\1\data\S071123ICAL\
Data File : s4G1107.D
Acq On : 11 Jul 2023 19:40
Operator : NM1
Sample : |WBN230627-06|ICAL|1|SVM|1|M-6
Misc : |MIX[A]
ALS Vial : 7 Sample Multiplier: 1

07/13/2023

Quant Time: Jul 13 09:53:25 2023
Quant Method : C:\msdchem\1\data\S071123ICAL\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:53:25 2023
Response via : Initial Calibration

Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	Dev(Min)
Internal Standards								
1) A 1,4-Dichlorobenzene-d4	152	4.313	4.313	1.000	164175	40.00	ng/uL	0.00
22) A Naphthalene-d8	136	5.688	5.688	1.000	712063	40.00	ng/uL	0.00
39) A Acenaphthene-d10	164	7.362	7.362	1.000	355487	40.00	ng/uL	0.00
64) A Phenanthrene-d10	188	8.656	8.656	1.000	722756	40.00	ng/uL	0.00
80) A Chrysene-d12	240	11.159	11.154	1.000	836076	40.00	ng/uL	0.00
88) A Perylene-d12	264	13.524	13.523	1.000	919711	40.00	ng/uL	0.00
96) B 1,4-Dichlorobenzene-d4	152	4.313	4.313	1.000	0m	40.00	ng/uL	0.00
112) B Naphthalene-d8	136	5.688	5.688	1.000	0m	40.00	ng/uL	0.00
120) B Acenaphthene-d10	164	7.362	7.362	1.000	0m	40.00	ng/uL	0.00
129) B Phenanthrene-d10	188	8.656	8.656	1.000	0m	40.00	ng/uL	0.00
142) B Chrysene-d12	240	11.159	11.154	1.000	0m	40.00	ng/uL	0.00
148) B Perylene-d12	264	13.524	13.523	1.000	0m	40.00	ng/uL	0.00
151) J Naphthalene-d8	136	5.688	5.688	1.000	0m	40.00	ng/uL	0.00
153) J Phenanthrene-d10	188	8.656	8.656	1.000	0m	40.00	ng/uL	0.00
156) J Chrysene-d12	240	11.159	11.154	1.000	0m	40.00	ng/uL	0.00
159) D Naphthalene-d8	136	5.688	5.688	1.000	0m	40.00	ng/uL	0.00
161) D Acenaphthene-d10	164	7.362	7.362	1.000	0m	40.00	ng/uL	0.00
164) D Phenanthrene-d10	188	8.656	8.656	1.000	0m	40.00	ng/uL	0.00
171) D Chrysene-d12	240	11.159	11.154	1.000	0m	40.00	ng/uL	0.00
173) E Naphthalene-d8	136	5.688	5.688	1.000	0m	40.00	ng/uL	0.00
175) E Perylene-d12	264	13.524	13.540	1.000	0m	40.00	ng/uL	-0.02
System Monitoring Compounds								Dev(Min)
5) 2-Fluorophenol	112	2.997	2.997	0.695	410545	80.46	ng/uL	0.00
8) Phenol-d5	99	3.885	3.880	0.901	504260	79.89	ng/uL	0.00
23) Nitrobenzene-d5	82	4.918	4.917	0.865	476537	79.84	ng/uL	0.00
44) 2-Fluorobiphenyl	172	6.741	6.741	0.916	1054898	80.07	ng/uL	0.00
63) 2,4,6-Tribromophenol	330	8.057	8.052	1.094	266532	82.52	ng/uL	0.00
79) p-Terphenyl-d14	244	9.993	9.993	1.154	1571867	79.92	ng/uL	0.00
Target Compounds	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	QValue
2) 2-Ethoxyethanol	59	1.740	1.746	0.404	228420	83.11	ng/uL	99
3) N-Methyl-N-nitrosometh...	74	1.944	1.949	0.451	279856	84.68	ng/uL	99
4) Pyridine	79	1.986	1.992	0.461	461481	81.63	ng/uL	99
6) p-Benzoquinone	54	3.473	3.473	0.805	209257	85.38	ng/uL	97
7) Aniline	93	3.960	3.955	0.918	638574	81.49	ng/uL	100
9) Phenol	94	3.896	3.896	0.903	556917	81.76	ng/uL	100
10) bis(2-Chloroethyl) ether	93	4.014	4.013	0.931	433435	81.71	ng/uL	100
11) 2-Chlorophenol	128	4.083	4.083	0.947	474702	81.90	ng/uL	99
12) n-Decane	43	4.115	4.115	0.954	390872	81.62	ng/uL	98
13) 1,3-Dichlorobenzene	146	4.254	4.254	0.986	529276	81.96	ng/uL	99
14) 1,4-Dichlorobenzene	146	4.329	4.329	1.004	538443	81.29	ng/uL	99
15) 1,2-Dichlorobenzene	146	4.495	4.495	1.042	507446	81.13	ng/uL	100
16) bis(2-Chloro-1-methyle...	45	4.591	4.591	1.064	507326	81.71	ng/uL	99
17) Benzyl alcohol	108	4.442	4.441	1.030	314160	81.92	ng/uL	97
18) o-Cresol	107	4.554	4.554	1.056	378603	81.78	ng/uL	99
19) m,p-Cresols	108	4.730	4.725	1.097	449657	82.28	ng/uL	99
20) N-Nitrosodipropylamine	70	4.741	4.735	1.099	324826	82.84	ng/uL	99
21) Hexachloroethane	117	4.875	4.875	1.130	195145	82.73	ng/uL	99
24) Nitrobenzene	77	4.939	4.939	0.868	476447	79.98	ng/uL	100
25) Isophorone	82	5.196	5.195	0.913	869910	79.70	ng/uL	99
26) 2-Nitrophenol	139	5.287	5.281	0.929	254384	81.88	ng/uL	99
27) 2,4-Dimethylphenol	122	5.313	5.313	0.934	364757	81.25	ng/uL	98
28) bis(2-Chloroethoxy)met...	93	5.426	5.420	0.954	551176	80.04	ng/uL	97
29) 2,4-Dichlorophenol	162	5.538	5.532	0.974	416159	80.54	ng/uL	100

Quantitation Report

Data Path : C:\msdchem\1\data\S071123ICAL\
Data File : s4G1107.D
Acq On : 11 Jul 2023 19:40
Operator : NM1
Sample : |WBN230627-06|ICAL|1|SVM|1|M-6
Misc : |MIX[A]
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 13 09:53:25 2023
Quant Method : C:\msdchem\1\data\S071123ICAL\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:53:25 2023
Response via : Initial Calibration

Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	
30) Benzoic acid	105	5.415	5.393	0.952	307413	78.56	ng/uL	96
31) 1,2,4-Trichlorobenzene	180	5.629	5.629	0.990	448370	79.59	ng/uL	99
32) alpha-Terpineol	59	5.715	5.714	1.005	374329	80.84	ng/uL	99
33) Naphthalene	128	5.709	5.709	1.004	1364189	78.85	ng/uL	100
34) 4-Chloroaniline	127	5.757	5.757	1.012	568802	78.97	ng/uL	99
35) Hexachlorobutadiene	225	5.832	5.832	1.025	270329	80.10	ng/uL	99
36) 4-Chloro-3-methylphenol	107	6.233	6.233	1.096	395538	79.70	ng/uL	98
37) 2-Methylnaphthalene	142	6.399	6.399	1.125	902015	79.88	ng/uL	99
38) 1-Methylnaphthalene	142	6.495	6.490	1.142	889097	80.07	ng/uL	100
40) Hexachlorocyclopentadiene	237	6.544	6.543	0.889	305092	83.78	ng/uL	99
41) 2,3-Dichloroaniline	161	6.661	6.661	0.905	506089	80.67	ng/uL	98
42) 2,4,6-Trichlorophenol	196	6.661	6.661	0.905	316212	82.89	ng/uL	99
43) 2,4,5-Trichlorophenol	196	6.693	6.693	0.909	338513	82.58	ng/uL	98
45) 2-Chloronaphthalene	162	6.859	6.859	0.932	893900	81.45	ng/uL	99
46) o-Nitroaniline	65	6.945	6.944	0.943	248440	82.63	ng/uL	99
47) 1,4-Dinitrobenzene	168	7.073	7.073	0.961	153301	83.27	ng/uL	97
48) m-Nitroaniline	138	7.319	7.314	0.994	280241	81.64	ng/uL	100
49) Dimethylphthalate	163	7.111	7.105	0.966	1055734	82.09	ng/uL	99
50) m-Dinitrobenzene	168	7.143	7.137	0.970	175350	83.50	ng/uL	97
51) 2,6-Dinitrotoluene	165	7.169	7.164	0.974	248596	81.95	ng/uL	97
52) 2,4-Dinitrotoluene	165	7.522	7.522	1.022	336387	83.15	ng/uL	98
53) Acenaphthylene	152	7.239	7.239	0.983	1455377	81.19	ng/uL	98
54) Acenaphthene	153	7.394	7.394	1.004	955934	81.22	ng/uL	99
55) 2,4-Dinitrophenol	184	7.410	7.410	1.007	131884	81.10	ng/uL	98
56) Dibenzofuran	168	7.549	7.544	1.025	1305413	80.02	ng/uL	99
57) 2,3,4,6-Tetrachlorophenol	232	7.645	7.645	1.039	290979	81.77	ng/uL	99
58) Diethylphthalate	149	7.731	7.725	1.050	1064647	82.09	ng/uL	99
59) 4-Nitrophenol	109	7.458	7.453	1.013	130643	82.94	ng/uL	98
60) Fluorene	166	7.849	7.848	1.066	1074487	82.03	ng/uL	100
61) 4-Chlorophenylphenylether	204	7.838	7.838	1.065	526636	80.64	ng/uL	99
62) p-Nitroaniline	138	7.859	7.854	1.068	303346	83.70	ng/uL	99
65) 2-Methyl-4,6-dinitroph...	198	7.881	7.875	0.910	170847	80.67	ng/uL	99
66) Diphenylamine	169	7.940	7.939	0.917	905341	80.52	ng/uL	100
67) 1,2-Diphenylhydrazine	77	7.977	7.977	0.922	982087	80.79	ng/uL	99
68) 4-Bromophenylphenylether	248	8.260	8.260	0.954	359748	81.23	ng/uL	99
69) Hexachlorobenzene	284	8.319	8.319	0.961	466964	81.57	ng/uL	99
70) Pentachlorophenol	266	8.485	8.485	0.980	254876	81.37	ng/uL	98
71) n-Octadecane	57	8.523	8.517	0.985	618079	82.83	ng/uL	99
72) Dinoseb	211	8.624	8.624	0.996	278980	81.36	ng/uL	99
73) Phenanthrene	178	8.678	8.677	1.002	1538031	79.92	ng/uL	99
74) Anthracene	178	8.720	8.720	1.007	1569279	80.39	ng/uL	98
75) Carbazole	167	8.849	8.849	1.022	1446937	80.86	ng/uL	99
76) Di-n-butylphthalate	149	9.116	9.111	1.053	1777220	81.68	ng/uL	99
77) Fluoranthene	202	9.683	9.683	1.119	1715605	80.98	ng/uL	99
78) Pyrene	202	9.881	9.876	1.141	1787233	80.33	ng/uL	98
81) Butylbenzylphthalate	149	10.448	10.448	0.936	824419	84.58	ng/uL	100
82) bis(2-Ethylhexyl)phtha...	149	11.117	11.116	0.996	1249137	84.90	ng/uL	99
83) Benzo(a)anthracene	228	11.143	11.138	0.999	1901160	80.34	ng/uL	99
84) Chrysene	228	11.192	11.186	1.003	1708070	80.09	ng/uL	100
85) Methoxychlor	227	11.026	11.020	0.988	1227948	82.68	ng/uL	100
86) Methylenebis(2-chloroa...	231	11.090	11.090	0.994	411617	81.29	ng/uL	99
87) Di-n-octylphthalate	149	12.101	12.101	1.084	2076633	85.92	ng/uL	100
89) Benzo(b)fluoranthene	252	12.812	12.801	0.947	2052296	83.20	ng/uL	100
90) Benzo(k)fluoranthene	252	12.860	12.855	0.951	1943602	83.85	ng/uL	99
91) Benzo(a)pyrene	252	13.422	13.416	0.992	1811677	83.84	ng/uL	100
92) Indeno(1,2,3-cd)pyrene	276	15.818	15.807	1.170	2199202	85.56	ng/uL	100
93) Dibenzo(a,h)anthracene	278	15.877	15.866	1.174	2174586	84.96	ng/uL	99

Quantitation Report

Data Path : C:\msdchem\1\data\S071123ICAL\
Data File : s4G1107.D
Acq On : 11 Jul 2023 19:40
Operator : NM1
Sample : |WBN230627-06|ICAL|1|SVM|1|M-6
Misc : |MIX[A]
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 13 09:53:25 2023
Quant Method : C:\msdchem\1\data\S071123ICAL\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:53:25 2023
Response via : Initial Calibration

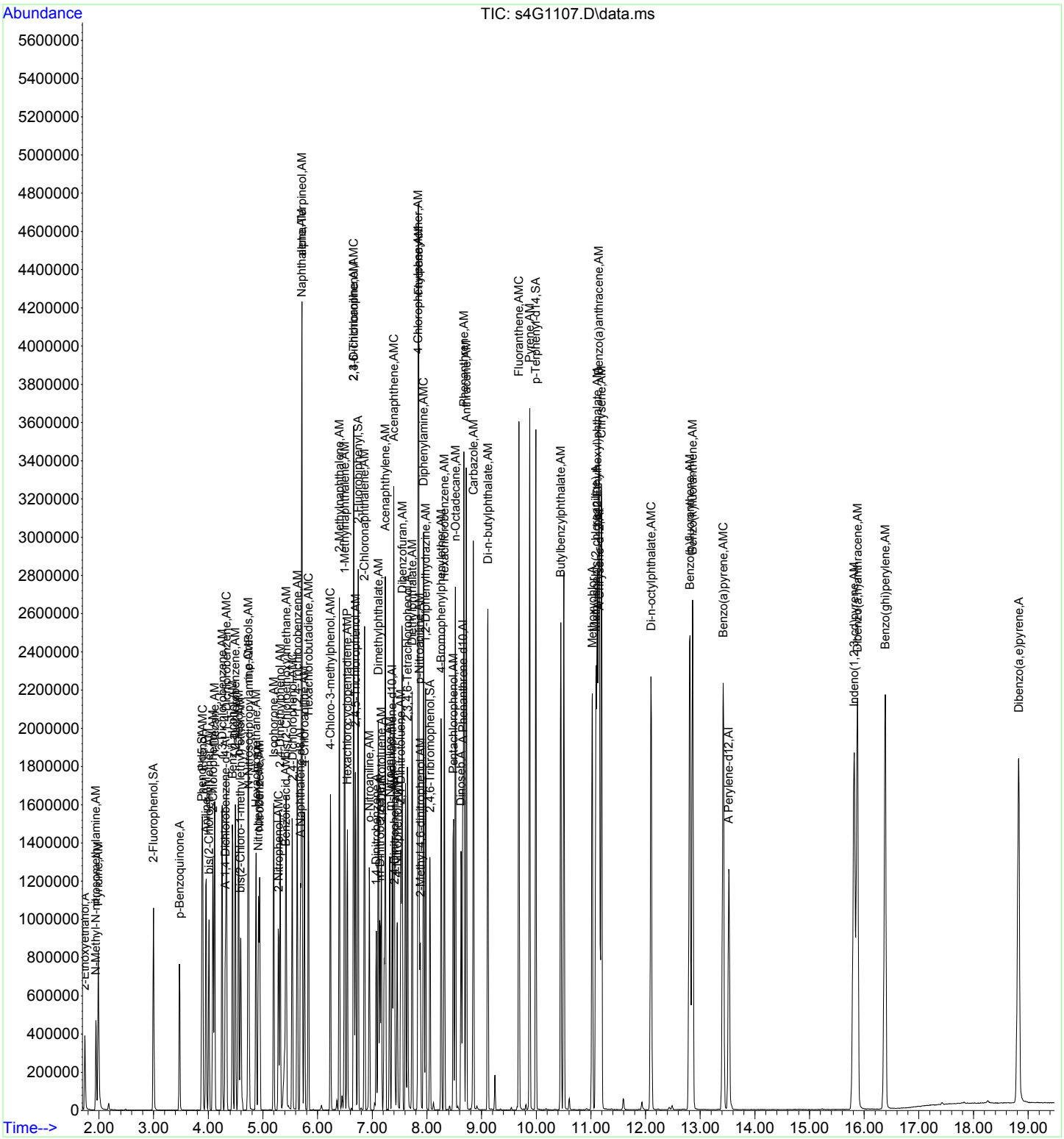
Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	
94) Benzo(ghi)perylene	276	16.385	16.374	1.212	2103022	83.77	ng/uL	100
95) Dibenzo(a,e)pyrene	302	18.829	18.813	1.392	1822519	79.26	ng/uL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(A) = Over the calibration range (d) = deleted

Quantitation Report

Data Path : C:\msdchem\1\data\S071123ICAL\
Data File : s4G1107.D
Acq On : 11 Jul 2023 19:40
Operator : NM1
Sample : |WBN230627-06|ICAL|1|SVM|1|M-6
Misc : |MIX[A]
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 13 09:53:25 2023
Quant Method : C:\msdchem\1\data\S071123ICAL\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:53:25 2023
Response via : Initial Calibration



Quantitation Report

07/13/2023

Data Path : C:\msdchem\1\data\S071123ICAL\
Data File : s4G1108.D
Acq On : 11 Jul 2023 20:04
Operator : NM1
Sample : |WBN230627-07|ICAL|1|SVM|1|M-7
Misc : |MIX[A]
ALS Vial : 8 Sample Multiplier: 1

07/13/2023

Quant Time: Jul 13 09:53:34 2023
Quant Method : C:\msdchem\1\data\S071123ICAL\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:53:33 2023
Response via : Initial Calibration

Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	Dev(Min)
Internal Standards								
1) A 1,4-Dichlorobenzene-d4	152	4.313	4.313	1.000	170405	40.00	ng/uL	0.00
22) A Naphthalene-d8	136	5.688	5.688	1.000	729908	40.00	ng/uL	0.00
39) A Acenaphthene-d10	164	7.367	7.362	1.000	362139	40.00	ng/uL	0.00
64) A Phenanthrene-d10	188	8.656	8.656	1.000	736432	40.00	ng/uL	0.00
80) A Chrysene-d12	240	11.159	11.154	1.000	852633	40.00	ng/uL	0.00
88) A Perylene-d12	264	13.529	13.523	1.000	949427	40.00	ng/uL	0.00
96) B 1,4-Dichlorobenzene-d4	152	4.313	4.313	1.000	0m	40.00	ng/uL	0.00
112) B Naphthalene-d8	136	5.688	5.688	1.000	0m	40.00	ng/uL	0.00
120) B Acenaphthene-d10	164	7.367	7.362	1.000	0m	40.00	ng/uL	0.00
129) B Phenanthrene-d10	188	8.656	8.656	1.000	0m	40.00	ng/uL	0.00
142) B Chrysene-d12	240	11.159	11.154	1.000	0m	40.00	ng/uL	0.00
148) B Perylene-d12	264	13.529	13.523	1.000	0m	40.00	ng/uL	0.00
151) J Naphthalene-d8	136	5.688	5.688	1.000	0m	40.00	ng/uL	0.00
153) J Phenanthrene-d10	188	8.656	8.656	1.000	0m	40.00	ng/uL	0.00
156) J Chrysene-d12	240	11.159	11.154	1.000	0m	40.00	ng/uL	0.00
159) D Naphthalene-d8	136	5.688	5.688	1.000	0m	40.00	ng/uL	0.00
161) D Acenaphthene-d10	164	7.367	7.362	1.000	0m	40.00	ng/uL	0.00
164) D Phenanthrene-d10	188	8.656	8.656	1.000	0m	40.00	ng/uL	0.00
171) D Chrysene-d12	240	11.159	11.154	1.000	0m	40.00	ng/uL	0.00
173) E Naphthalene-d8	136	5.688	5.688	1.000	0m	40.00	ng/uL	0.00
175) E Perylene-d12	264	13.529	13.540	1.000	0m	40.00	ng/uL	-0.01
System Monitoring Compounds								Dev(Min)
5) 2-Fluorophenol	112	2.997	2.997	0.695	524751	99.08	ng/uL	0.00
8) Phenol-d5	99	3.885	3.880	0.901	642615	98.09	ng/uL	0.00
23) Nitrobenzene-d5	82	4.923	4.917	0.866	604421	98.79	ng/uL	0.00
44) 2-Fluorobiphenyl	172	6.741	6.741	0.915	1304234	97.18	ng/uL	0.00
63) 2,4,6-Tribromophenol	330	8.057	8.052	1.094	330466	100.44	ng/uL	0.00
79) p-Terphenyl-d14	244	9.993	9.993	1.154	1931613	96.39	ng/uL	0.00
Target Compounds	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	QValue
2) 2-Ethoxyethanol	59	1.740	1.746	0.404	290623	101.87	ng/uL	99
3) N-Methyl-N-nitrosometh...	74	1.944	1.949	0.451	354777	103.43	ng/uL	99
4) Pyridine	79	1.987	1.992	0.461	587448	100.12	ng/uL	100
6) p-Benzoquinone	54	3.473	3.473	0.805	262628	103.24	ng/uL	97
7) Aniline	93	3.960	3.955	0.918	799443	98.28	ng/uL	100
9) Phenol	94	3.901	3.896	0.905	708501	100.21	ng/uL	100
10) bis(2-Chloroethyl) ether	93	4.014	4.013	0.931	541598	98.37	ng/uL	99
11) 2-Chlorophenol	128	4.083	4.083	0.947	599719	99.69	ng/uL	99
12) n-Decane	43	4.115	4.115	0.954	490221	98.62	ng/uL	99
13) 1,3-Dichlorobenzene	146	4.254	4.254	0.986	665232	99.25	ng/uL	100
14) 1,4-Dichlorobenzene	146	4.329	4.329	1.004	681653	99.15	ng/uL	99
15) 1,2-Dichlorobenzene	146	4.495	4.495	1.042	644415	99.26	ng/uL	100
16) bis(2-Chloro-1-methyle...	45	4.597	4.591	1.066	643908	99.91	ng/uL	100
17) Benzyl alcohol	108	4.447	4.441	1.031	396746	99.68	ng/uL	99
18) o-Cresol	107	4.554	4.554	1.056	478636	99.61	ng/uL	100
19) m,p-Cresols	108	4.730	4.725	1.097	566753	99.91	ng/uL	99
20) N-Nitrosodipropylamine	70	4.741	4.735	1.099	408308	100.32	ng/uL	99
21) Hexachloroethane	117	4.875	4.875	1.130	245172	100.14	ng/uL	100
24) Nitrobenzene	77	4.944	4.939	0.869	599909	98.24	ng/uL	99
25) Isophorone	82	5.201	5.195	0.914	1088220	97.26	ng/uL	99
26) 2-Nitrophenol	139	5.287	5.281	0.929	326220	102.43	ng/uL	99
27) 2,4-Dimethylphenol	122	5.319	5.313	0.935	457271	99.36	ng/uL	98
28) bis(2-Chloroethoxy)met...	93	5.426	5.420	0.954	687103	97.34	ng/uL	97
29) 2,4-Dichlorophenol	162	5.538	5.532	0.974	523872	98.91	ng/uL	99

Quantitation Report

Data Path : C:\msdchem\1\data\S071123ICAL\
Data File : s4G1108.D
Acq On : 11 Jul 2023 20:04
Operator : NM1
Sample : |WBN230627-07|ICAL|1|SVM|1|M-7
Misc : |MIX[A]
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 13 09:53:34 2023
Quant Method : C:\msdchem\1\data\S071123ICAL\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:53:33 2023
Response via : Initial Calibration

Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	
30) Benzoic acid	105	5.426	5.393	0.954	407174	99.40	ng/uL	97
31) 1,2,4-Trichlorobenzene	180	5.629	5.629	0.990	563311	97.55	ng/uL	99
32) alpha-Terpineol	59	5.715	5.714	1.005	466601	98.30	ng/uL	99
33) Naphthalene	128	5.715	5.709	1.005	1683684	94.93	ng/uL	99
34) 4-Chloroaniline	127	5.763	5.757	1.013	715875	96.96	ng/uL	99
35) Hexachlorobutadiene	225	5.832	5.832	1.025	340127	98.32	ng/uL	99
36) 4-Chloro-3-methylphenol	107	6.233	6.233	1.096	505337	99.34	ng/uL	99
37) 2-Methylnaphthalene	142	6.399	6.399	1.125	1127651	97.42	ng/uL	99
38) 1-Methylnaphthalene	142	6.495	6.490	1.142	1096206	96.31	ng/uL	99
40) Hexachlorocyclopentadiene	237	6.544	6.543	0.888	384800	103.73	ng/uL	99
41) 2,3-Dichloroaniline	161	6.661	6.661	0.904	633972	99.20	ng/uL	98
42) 2,4,6-Trichlorophenol	196	6.661	6.661	0.904	392008	100.87	ng/uL	99
43) 2,4,5-Trichlorophenol	196	6.693	6.693	0.909	424088	101.55	ng/uL	98
45) 2-Chloronaphthalene	162	6.859	6.859	0.931	1112220	99.48	ng/uL	99
46) o-Nitroaniline	65	6.945	6.944	0.943	312005	101.86	ng/uL	99
47) 1,4-Dinitrobenzene	168	7.073	7.073	0.960	199246	106.23	ng/uL	95
48) m-Nitroaniline	138	7.319	7.314	0.993	355198	101.58	ng/uL	99
49) Dimethylphthalate	163	7.111	7.105	0.965	1307448	99.79	ng/uL	99
50) m-Dinitrobenzene	168	7.143	7.137	0.970	221670	103.61	ng/uL	99
51) 2,6-Dinitrotoluene	165	7.169	7.164	0.973	308198	99.73	ng/uL	100
52) 2,4-Dinitrotoluene	165	7.528	7.522	1.022	421005	102.16	ng/uL	94
53) Acenaphthylene	152	7.239	7.239	0.983	1784346	97.72	ng/uL	98
54) Acenaphthene	153	7.394	7.394	1.004	1180665	98.48	ng/uL	98
55) 2,4-Dinitrophenol	184	7.410	7.410	1.006	167651	99.28	ng/uL	100
56) Dibenzofuran	168	7.549	7.544	1.025	1604332	96.53	ng/uL	98
57) 2,3,4,6-Tetrachlorophenol	232	7.645	7.645	1.038	366060	100.98	ng/uL	100
58) Diethylphthalate	149	7.731	7.725	1.049	1307525	98.97	ng/uL	99
59) 4-Nitrophenol	109	7.458	7.453	1.012	167256	104.24	ng/uL	99
60) Fluorene	166	7.849	7.848	1.065	1306896	97.94	ng/uL	100
61) 4-Chlorophenylphenylether	204	7.838	7.838	1.064	655380	98.51	ng/uL	99
62) p-Nitroaniline	138	7.859	7.854	1.067	379313	102.74	ng/uL	99
65) 2-Methyl-4,6-dinitroph...	198	7.881	7.875	0.910	222899	102.23	ng/uL	98
66) Diphenylamine	169	7.940	7.939	0.917	1117760	97.57	ng/uL	99
67) 1,2-Diphenylhydrazine	77	7.977	7.977	0.922	1207338	97.48	ng/uL	98
68) 4-Bromophenylphenylether	248	8.260	8.260	0.954	449802	99.68	ng/uL	99
69) Hexachlorobenzene	284	8.319	8.319	0.961	580471	99.51	ng/uL	100
70) Pentachlorophenol	266	8.485	8.485	0.980	323041	100.53	ng/uL	99
71) n-Octadecane	57	8.523	8.517	0.985	750398	98.69	ng/uL	100
72) Dinoseb	211	8.630	8.624	0.997	359429	101.87	ng/uL	99
73) Phenanthrene	178	8.678	8.677	1.002	1884176	96.09	ng/uL	98
74) Anthracene	178	8.720	8.720	1.007	1907564	95.91	ng/uL	97
75) Carbazole	167	8.849	8.849	1.022	1775873	97.40	ng/uL	98
76) Di-n-butylphthalate	149	9.116	9.111	1.053	2155553	97.22	ng/uL	98
77) Fluoranthene	202	9.683	9.683	1.119	2095941	97.10	ng/uL	98
78) Pyrene	202	9.881	9.876	1.141	2191474	96.67	ng/uL	97
81) Butylbenzylphthalate	149	10.448	10.448	0.936	1022361	102.85	ng/uL	99
82) bis(2-Ethylhexyl)phtha...	149	11.117	11.116	0.996	1553961	103.57	ng/uL	99
83) Benzo(a)anthracene	228	11.143	11.138	0.999	2356098	97.63	ng/uL	98
84) Chrysene	228	11.197	11.186	1.003	2142191	98.50	ng/uL	99
85) Methoxychlor	227	11.026	11.020	0.988	1542160	101.82	ng/uL	100
86) Methylenebis(2-chloroa...	231	11.095	11.090	0.994	519784	100.66	ng/uL	99
87) Di-n-octylphthalate	149	12.101	12.101	1.084	2594855	105.27	ng/uL	99
89) Benzo(b)fluoranthene	252	12.812	12.801	0.947	2621772	102.96	ng/uL	99
90) Benzo(k)fluoranthene	252	12.866	12.855	0.951	2405846	100.54	ng/uL	99
91) Benzo(a)pyrene	252	13.427	13.416	0.992	2316697	103.86	ng/uL	100
92) Indeno(1,2,3-cd)pyrene	276	15.823	15.807	1.170	2792246	105.23	ng/uL	99
93) Dibenzo(a,h)anthracene	278	15.882	15.866	1.174	2772333	104.92	ng/uL	100

Quantitation Report

Data Path : C:\msdchem\1\data\S071123ICAL\
Data File : s4G1108.D
Acq On : 11 Jul 2023 20:04
Operator : NM1
Sample : |WBN230627-07|ICAL|1|SVM|1|M-7
Misc : |MIX[A]
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 13 09:53:34 2023
Quant Method : C:\msdchem\1\data\S071123ICAL\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:53:33 2023
Response via : Initial Calibration

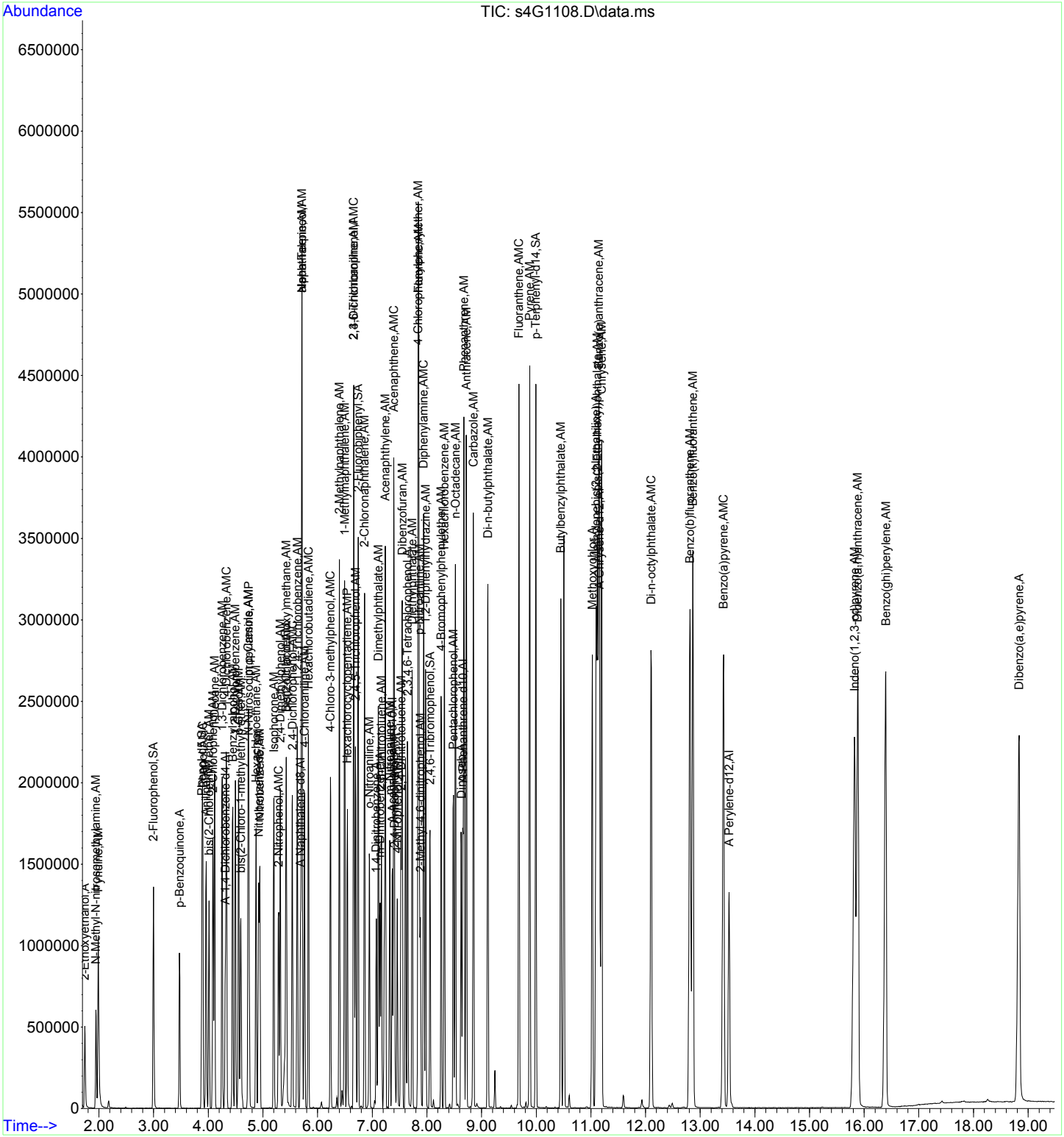
Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	
94) Benzo(ghi)perylene	276	16.396	16.374	1.212	2683509	103.55	ng/uL	100
95) Dibenzo(a,e)pyrene	302	18.835	18.813	1.392	2352918	99.12	ng/uL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(A) = Over the calibration range (d) = deleted

Quantitation Report

Data Path : C:\msdchem\1\data\S071123ICAL\
Data File : s4G1108.D
Acq On : 11 Jul 2023 20:04
Operator : NM1
Sample : |WBN230627-07|ICAL|1|SVM|1|M-7
Misc : |MIX[A]
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 13 09:53:34 2023
Quant Method : C:\msdchem\1\data\S071123ICAL\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:53:33 2023
Response via : Initial Calibration



Quantitation Report

07/13/2023

Data Path : C:\msdchem\1\data\S071123ICAL\
Data File : s4G1109.D
Acq On : 11 Jul 2023 20:28
Operator : NM1
Sample : |WBN230627-08|ICAL|1|SVM|1|M-8
Misc : |MIX[A]
ALS Vial : 9 Sample Multiplier: 1

07/13/2023

Quant Time: Jul 13 09:53:42 2023
Quant Method : C:\msdchem\1\data\S071123ICAL\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:53:42 2023
Response via : Initial Calibration

	Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units		
Internal Standards										Dev(Min)
1)	A 1,4-Dichlorobenzene-d4	152	4.313	4.313	1.000	173086	40.00	ng/uL	#	0.00
22)	A Naphthalene-d8	136	5.693	5.688	1.000	728584	40.00	ng/uL		0.00
39)	A Acenaphthene-d10	164	7.367	7.362	1.000	368272	40.00	ng/uL		0.00
64)	A Phenanthrene-d10	188	8.656	8.656	1.000	752005	40.00	ng/uL		0.00
80)	A Chrysene-d12	240	11.159	11.154	1.000	866859	40.00	ng/uL		0.00
88)	A Perylene-d12	264	13.529	13.523	1.000	966653	40.00	ng/uL		0.00
96)	B 1,4-Dichlorobenzene-d4	152	4.313	4.313	1.000	0m	40.00	ng/uL		0.00
112)	B Naphthalene-d8	136	5.693	5.688	1.000	0m	40.00	ng/uL		0.00
120)	B Acenaphthene-d10	164	7.367	7.362	1.000	0m	40.00	ng/uL		0.00
129)	B Phenanthrene-d10	188	8.656	8.656	1.000	0m	40.00	ng/uL		0.00
142)	B Chrysene-d12	240	11.159	11.154	1.000	0m	40.00	ng/uL		0.00
148)	B Perylene-d12	264	13.529	13.523	1.000	0m	40.00	ng/uL		0.00
151)	J Naphthalene-d8	136	5.693	5.688	1.000	0m	40.00	ng/uL		0.00
153)	J Phenanthrene-d10	188	8.656	8.656	1.000	0m	40.00	ng/uL		0.00
156)	J Chrysene-d12	240	11.159	11.154	1.000	0m	40.00	ng/uL		0.00
159)	D Naphthalene-d8	136	5.693	5.688	1.000	0m	40.00	ng/uL		0.00
161)	D Acenaphthene-d10	164	7.367	7.362	1.000	0m	40.00	ng/uL		0.00
164)	D Phenanthrene-d10	188	8.656	8.656	1.000	0m	40.00	ng/uL		0.00
171)	D Chrysene-d12	240	11.159	11.154	1.000	0m	40.00	ng/uL		0.00
173)	E Naphthalene-d8	136	5.693	5.688	1.000	0m	40.00	ng/uL		0.00
175)	E Perylene-d12	264	13.529	13.540	1.000	0m	40.00	ng/uL		-0.01
System Monitoring Compounds										Dev(Min)
5)	2-Fluorophenol	112	2.997	2.997	0.695	657001	122.13	ng/uL		0.00 A
8)	Phenol-d5	99	3.885	3.880	0.901	815614	122.57	ng/uL		0.00 A
23)	Nitrobenzene-d5	82	4.923	4.917	0.865	714911	117.06	ng/uL		0.00
44)	2-Fluorobiphenyl	172	6.741	6.741	0.915	1537811	112.68	ng/uL		0.00
63)	2,4,6-Tribromophenol	330	8.057	8.052	1.094	426215	127.38	ng/uL		0.00 A
79)	p-Terphenyl-d14	244	9.993	9.993	1.154	2264670	110.67	ng/uL		0.00
Target Compounds		QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units		QValue
2)	2-Ethoxyethanol	59	1.740	1.746	0.404	348328	120.21	ng/uL		100 A
3)	N-Methyl-N-nitrosometh...	74	1.949	1.949	0.452	420947	120.82	ng/uL		99 A
4)	Pyridine	79	1.986	1.992	0.461	694769	116.58	ng/uL		100
6)	p-Benzoquinone	54	3.473	3.473	0.805	311930	120.72	ng/uL		97 A
7)	Aniline	93	3.960	3.955	0.918	941675	113.98	ng/uL		99
9)	Phenol	94	3.901	3.896	0.905	840411	117.03	ng/uL		99
10)	bis(2-Chloroethyl) ether	93	4.014	4.013	0.931	644156	115.18	ng/uL		99
11)	2-Chlorophenol	128	4.088	4.083	0.948	720556	117.92	ng/uL		99
12)	n-Decane	43	4.115	4.115	0.954	585224	115.91	ng/uL		99
13)	1,3-Dichlorobenzene	146	4.254	4.254	0.986	783526	115.09	ng/uL		99
14)	1,4-Dichlorobenzene	146	4.334	4.329	1.005	798533	114.36	ng/uL		99
15)	1,2-Dichlorobenzene	146	4.500	4.495	1.043	764399	115.91	ng/uL		100
16)	bis(2-Chloro-1-methyle...	45	4.597	4.591	1.066	764550	116.80	ng/uL		99
17)	Benzyl alcohol	108	4.447	4.441	1.031	478826	118.44	ng/uL		99
18)	o-Cresol	107	4.559	4.554	1.057	571348	117.06	ng/uL		99
19)	m,p-Cresols	108	4.736	4.725	1.098	673788	116.94	ng/uL		100
20)	N-Nitrosodipropylamine	70	4.746	4.735	1.100	488367	118.13	ng/uL		99
21)	Hexachloroethane	117	4.875	4.875	1.130	290072	116.64	ng/uL		99
24)	Nitrobenzene	77	4.944	4.939	0.868	717877	117.78	ng/uL		99
25)	Isophorone	82	5.201	5.195	0.914	1293391	115.81	ng/uL		99
26)	2-Nitrophenol	139	5.287	5.281	0.929	386910	121.71	ng/uL		98 A
27)	2,4-Dimethylphenol	122	5.319	5.313	0.934	543272	118.27	ng/uL		97
28)	bis(2-Chloroethoxy)met...	93	5.426	5.420	0.953	816213	115.84	ng/uL		97
29)	2,4-Dichlorophenol	162	5.538	5.532	0.973	627147	118.62	ng/uL		99

Quantitation Report

Data Path : C:\msdchem\1\data\S071123ICAL\
Data File : s4G1109.D
Acq On : 11 Jul 2023 20:28
Operator : NM1
Sample : |WBN230627-08|ICAL|1|SVM|1|M-8
Misc : |MIX[A]
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 13 09:53:42 2023
Quant Method : C:\msdchem\1\data\S071123ICAL\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:53:42 2023
Response via : Initial Calibration

Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units		
30) Benzoic acid	105	5.442	5.393	0.956	525429	126.38	ng/uL	98	A
31) 1,2,4-Trichlorobenzene	180	5.629	5.629	0.989	667452	115.79	ng/uL	99	
32) alpha-Terpineol	59	5.714	5.714	1.004	552585	116.63	ng/uL	100	
33) Naphthalene	128	5.714	5.709	1.004	1952690	110.30	ng/uL	98	
34) 4-Chloroaniline	127	5.763	5.757	1.012	848480	115.13	ng/uL	100	
35) Hexachlorobutadiene	225	5.832	5.832	1.024	407853	118.11	ng/uL	99	
36) 4-Chloro-3-methylphenol	107	6.239	6.233	1.096	601033	118.36	ng/uL	100	
37) 2-Methylnaphthalene	142	6.399	6.399	1.124	1323276	114.53	ng/uL	99	
38) 1-Methylnaphthalene	142	6.495	6.490	1.141	1292340	113.75	ng/uL	99	
40) Hexachlorocyclopentadiene	237	6.543	6.543	0.888	457299	121.22	ng/uL	99	A
41) 2,3-Dichloroaniline	161	6.666	6.661	0.905	750772	115.51	ng/uL	98	
42) 2,4,6-Trichlorophenol	196	6.661	6.661	0.904	461095	116.67	ng/uL	99	
43) 2,4,5-Trichlorophenol	196	6.693	6.693	0.909	513156	120.84	ng/uL	98	A
45) 2-Chloronaphthalene	162	6.859	6.859	0.931	1320965	116.18	ng/uL	98	
46) o-Nitroaniline	65	6.950	6.944	0.943	371186	119.16	ng/uL	99	
47) 1,4-Dinitrobenzene	168	7.078	7.073	0.961	240278	125.98	ng/uL	96	A
48) m-Nitroaniline	138	7.324	7.314	0.994	422895	118.93	ng/uL	100	
49) Dimethylphthalate	163	7.116	7.105	0.966	1532729	115.04	ng/uL	98	
50) m-Dinitrobenzene	168	7.142	7.137	0.970	268763	123.54	ng/uL	97	A
51) 2,6-Dinitrotoluene	165	7.169	7.164	0.973	375826	119.58	ng/uL	99	
52) 2,4-Dinitrotoluene	165	7.528	7.522	1.022	498115	118.85	ng/uL	94	
53) Acenaphthylene	152	7.239	7.239	0.983	2094266	112.78	ng/uL	97	
54) Acenaphthene	153	7.394	7.394	1.004	1393346	114.28	ng/uL	98	
55) 2,4-Dinitrophenol	184	7.410	7.410	1.006	211904	121.52	ng/uL	98	A
56) Dibenzofuran	168	7.549	7.544	1.025	1876004	111.00	ng/uL	97	
57) 2,3,4,6-Tetrachlorophenol	232	7.651	7.645	1.038	445840	120.94	ng/uL	99	A
58) Diethylphthalate	149	7.731	7.725	1.049	1561883	116.25	ng/uL	99	
59) 4-Nitrophenol	109	7.458	7.453	1.012	202972	124.39	ng/uL	99	A
60) Fluorene	166	7.848	7.848	1.065	1540367	113.52	ng/uL	100	
61) 4-Chlorophenylphenylether	204	7.838	7.838	1.064	772066	114.12	ng/uL	99	
62) p-Nitroaniline	138	7.865	7.854	1.068	450121	119.89	ng/uL	100	
65) 2-Methyl-4,6-dinitroph...	198	7.886	7.875	0.911	272258	121.54	ng/uL	99	A
66) Diphenylamine	169	7.945	7.939	0.918	1321427	112.96	ng/uL	98	
67) 1,2-Diphenylhydrazine	77	7.977	7.977	0.922	1439829	113.84	ng/uL	98	
68) 4-Bromophenylphenylether	248	8.266	8.260	0.955	536830	116.50	ng/uL	99	
69) Hexachlorobenzene	284	8.319	8.319	0.961	695677	116.79	ng/uL	99	
70) Pentachlorophenol	266	8.485	8.485	0.980	396021	120.13	ng/uL	99	A
71) n-Octadecane	57	8.522	8.517	0.985	900621	116.00	ng/uL	99	
72) Dinoseb	211	8.629	8.624	0.997	437699	120.75	ng/uL	99	A
73) Phenanthrene	178	8.678	8.677	1.002	2200291	109.89	ng/uL	97	
74) Anthracene	178	8.726	8.720	1.008	2226852	109.64	ng/uL	96	
75) Carbazole	167	8.854	8.849	1.023	2058054	110.54	ng/uL	97	
76) Di-n-butylphthalate	149	9.116	9.111	1.053	2480050	109.54	ng/uL	98	
77) Fluoranthene	202	9.683	9.683	1.119	2438257	110.61	ng/uL	97	
78) Pyrene	202	9.881	9.876	1.141	2547158	110.04	ng/uL	96	
81) Butylbenzylphthalate	149	10.448	10.448	0.936	1212784	120.01	ng/uL	99	A
82) bis(2-Ethylhexyl)phtha...	149	11.117	11.116	0.996	1839076	120.56	ng/uL	98	A
83) Benzo(a)anthracene	228	11.149	11.138	0.999	2792481	113.81	ng/uL	98	
84) Chrysene	228	11.197	11.186	1.003	2529292	114.39	ng/uL	99	
85) Methoxychlor	227	11.026	11.020	0.988	1830648	118.88	ng/uL	100	
86) Methylenebis(2-chloroa...	231	11.095	11.090	0.994	620976	118.28	ng/uL	99	
87) Di-n-octylphthalate	149	12.101	12.101	1.084	3053148	121.83	ng/uL	99	A
89) Benzo(b)fluoranthene	252	12.817	12.801	0.947	3076552	118.66	ng/uL	99	
90) Benzo(k)fluoranthene	252	12.871	12.855	0.951	2894464	118.80	ng/uL	99	
91) Benzo(a)pyrene	252	13.427	13.416	0.992	2733674	120.37	ng/uL	99	A
92) Indeno(1,2,3-cd)pyrene	276	15.829	15.807	1.170	3261691	120.73	ng/uL	99	A
93) Dibenzo(a,h)anthracene	278	15.893	15.866	1.175	3286207	122.16	ng/uL	99	A

Quantitation Report

Data Path : C:\msdchem\1\data\S071123ICAL\
Data File : s4G1109.D
Acq On : 11 Jul 2023 20:28
Operator : NM1
Sample : |WBN230627-08|ICAL|1|SVM|1|M-8
Misc : |MIX[A]
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 13 09:53:42 2023
Quant Method : C:\msdchem\1\data\S071123ICAL\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:53:42 2023
Response via : Initial Calibration

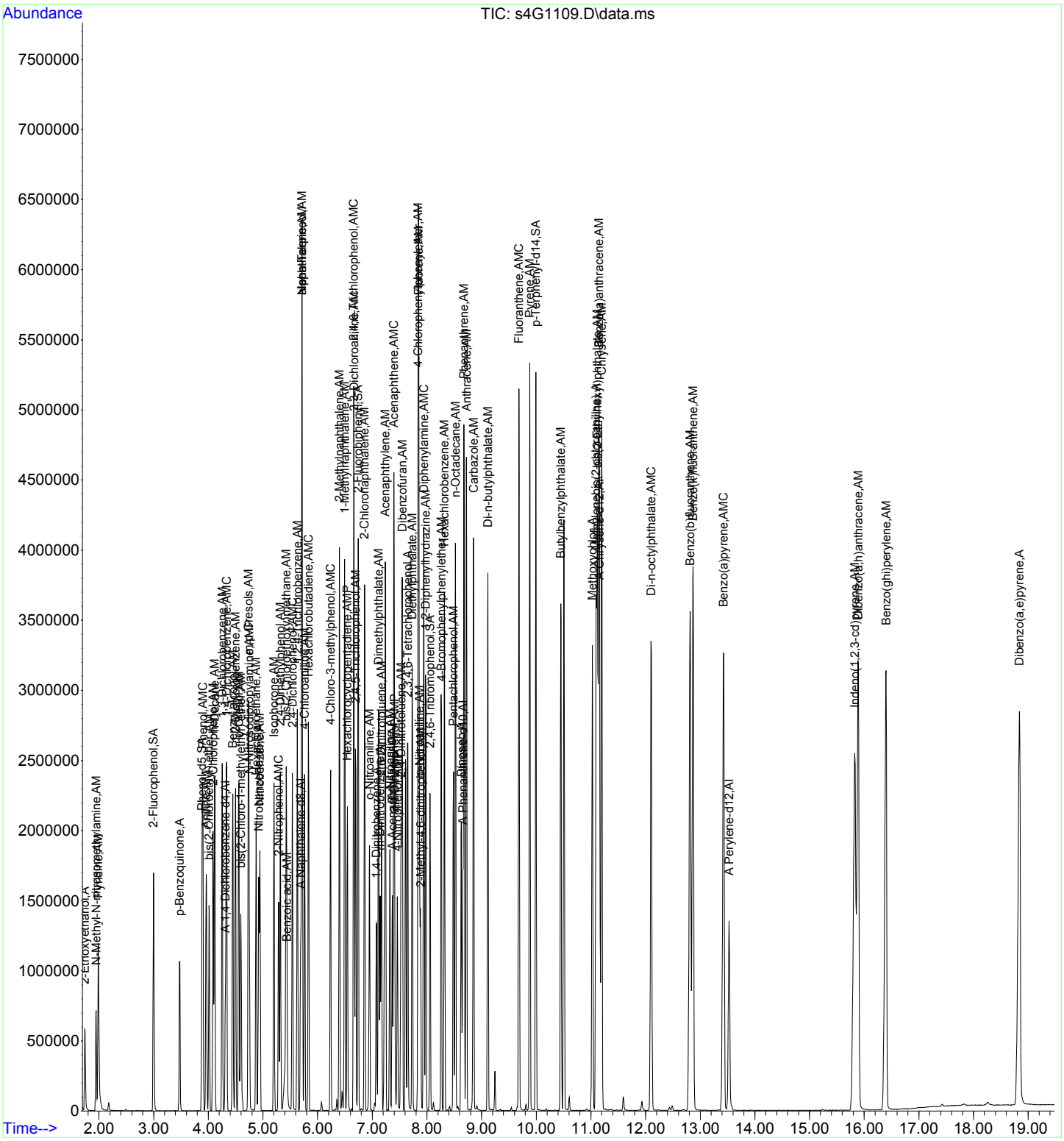
Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units		
94) Benzo(ghi)perylene	276	16.401	16.374	1.212	3180194	120.53	ng/uL	99	A
95) Dibenzo(a,e)pyrene	302	18.840	18.813	1.393	3068813	126.98	ng/uL	99	A

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(A) = Over the calibration range (d) = deleted

Quantitation Report

Data Path : C:\msdchem\1\data\S071123ICAL\
Data File : s4G1109.D
Acq On : 11 Jul 2023 20:28
Operator : NM1
Sample : |WBN230627-08|ICAL|1|SVM|1|M-8
Misc : |MIX[A]
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 13 09:53:42 2023
Quant Method : C:\msdchem\1\data\S071123ICAL\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:53:42 2023
Response via : Initial Calibration



Continuing Calibration Summary

Client SDG: 631221

Instrument ID: MSD4.I **Injection Date:** 11-JUL-23 20:53

Data File: S071123ICAL\s4G1110.D **Init. Cal. Date(s)** 11-JUL-23 17:37 - 12-JUL-23 19:53

Lab Sample ID WBN230706-43.2 **Method:** S071123ICAL\MSD4_8270_071123.m

Quant Type ISTD **Method Update:** 13-JUL-23 09:54

	Compound	AVERF / Amount	RF CCV	Nominal CCV	Min RF	RF Q	%D / %Drift	Max	Drift Q	Curve Type
S	2-Fluorophenol	1.2432	1.3509		.01		8.66313	50		Averaged
S	Phenol-d5	1.5378	1.6474		.01		7.12706	50		Averaged
S	Nitrobenzene-d5	0.3353	0.33776		.01		0.73367	50		Averaged
S	2-Fluorobiphenyl	1.4824	1.52707		.01		3.01336	50		Averaged
S	2,4,6-Tribromophenol	0.3634	0.3847		.01		5.86131	50		Averaged
S	p-Terphenyl-d14	1.0885	1.07784		.01		-0.97933	50		Averaged
	Phenol	1.6596	1.92639		.8		16.07556	20		Averaged
	1,4-Dichlorobenzene	1.6137	1.85542		.01		14.97924	20		Averaged
	N-Nitrosodipropylamine	0.9554	1.01219		.5		5.94411	50		Averaged
	2-Nitrophenol	0.1745	0.18676		.1		7.02579	20		Averaged
	2,4-Dichlorophenol	0.2903	0.31139		.2		7.2649	20		Averaged
	Hexachlorobutadiene	0.1896	0.20302		.01		7.07806	20		Averaged
	4-Chloro-3-methylphenol	0.2788	0.296		.2		6.1693	20		Averaged
	Hexachlorocyclopentadiene	0.4098	0.51903		.05		26.65447	50		Averaged
	2,4,6-Trichlorophenol	0.4293	0.48035		.2		11.89145	20		Averaged
	Dimethylphthalate	1.4471	1.58035		.01		9.20807	50		Averaged
	Acenaphthene	1.3243	1.45115		.9		9.57865	20		Averaged
	2,4-Dinitrophenol	40	42.67	40			6.675	50		Linear
	4-Nitrophenol	0.1772	0.19561		.05		10.38939	50		Averaged
	Diphenylamine	0.6223	0.67741		.01		8.85586	20		Averaged
	Pentachlorophenol	40	44.5	40			11.25	50		Linear
	Fluoranthene	1.1725	1.31622		.6		12.25757	20		Averaged
	Di-n-octylphthalate	1.1563	1.24015		.01		7.25158	20		Averaged
	Benzo(a)pyrene	0.9398	1.06448		.7		13.26665	20		Averaged

Quantitation Report

07/13/2023

Data Path : C:\msdchem\1\data\S071123ICAL\
Data File : s4G1110.D
Acq On : 11 Jul 2023 20:53
Operator : NM1
Sample : |WBN230706-43.2|ICV|1|SVM|1|M-ICV
Misc : |MIX[A]
ALS Vial : 10 Sample Multiplier: 1

07/13/2023

Quant Time: Jul 13 10:04:31 2023
Quant Method : C:\msdchem\1\data\S071123ICAL\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:54:56 2023
Response via : Initial Calibration

Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	Dev(Min)
Internal Standards								
1) A 1,4-Dichlorobenzene-d4	152	4.313	4.313	1.000	149432	40.00	ng/uL	0.00
22) A Naphthalene-d8	136	5.688	5.688	1.000	674231	40.00	ng/uL	0.00
39) A Acenaphthene-d10	164	7.362	7.362	1.000	332613	40.00	ng/uL	0.00
64) A Phenanthrene-d10	188	8.656	8.656	1.000	677616	40.00	ng/uL	0.00
80) A Chrysene-d12	240	11.154	11.154	1.000	785540	40.00	ng/uL	0.00
88) A Perylene-d12	264	13.523	13.523	1.000	874168	40.00	ng/uL	0.00
96) B 1,4-Dichlorobenzene-d4	152	4.313	4.313	1.000	149432	40.00	ng/uL	0.00
112) B Naphthalene-d8	136	5.688	5.688	1.000	674231	40.00	ng/uL	0.00
120) B Acenaphthene-d10	164	7.362	7.362	1.000	332613	40.00	ng/uL	0.00
129) B Phenanthrene-d10	188	8.656	8.656	1.000	677616	40.00	ng/uL	0.00
142) B Chrysene-d12	240	11.154	11.154	1.000	785540	40.00	ng/uL	0.00
148) B Perylene-d12	264	13.523	13.523	1.000	874168	40.00	ng/uL	0.00
151) J Naphthalene-d8	136	5.688	5.688	1.000	674231	40.00	ng/uL	0.00
153) J Phenanthrene-d10	188	8.656	8.656	1.000	677616	40.00	ng/uL	0.00
156) J Chrysene-d12	240	11.154	11.154	1.000	785540	40.00	ng/uL	0.00
159) D Naphthalene-d8	136	5.688	5.688	1.000	674231	40.00	ng/uL	0.00
161) D Acenaphthene-d10	164	7.362	7.362	1.000	332613	40.00	ng/uL	0.00
164) D Phenanthrene-d10	188	8.656	8.656	1.000	677616	40.00	ng/uL	0.00
171) D Chrysene-d12	240	11.154	11.154	1.000	785540	40.00	ng/uL	0.00
173) E Naphthalene-d8	136	5.688	5.688	1.000	674231	40.00	ng/uL	0.00
175) E Perylene-d12	264	13.523	13.540	1.000	874168	40.00	ng/uL	-0.02
System Monitoring Compounds								Dev(Min)
5) 2-Fluorophenol	112	2.997	2.997	0.695	201867	43.47	ng/uL	0.00
8) Phenol-d5	99	3.880	3.880	0.900	246175	42.85	ng/uL	0.00
23) Nitrobenzene-d5	82	4.917	4.917	0.865	227728	40.29	ng/uL	0.00
44) 2-Fluorobiphenyl	172	6.741	6.741	0.916	507922	41.21	ng/uL	0.00
63) 2,4,6-Tribromophenol	330	8.052	8.052	1.094	127956	42.34	ng/uL	0.00
79) p-Terphenyl-d14	244	9.993	9.993	1.154	730361	39.61	ng/uL	0.00
Target Compounds	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	QValue
2) 2-Ethoxyethanol	59	1.746	1.746	0.405	115342	46.10	ng/uL	99
3) N-Methyl-N-nitrosometh...	74	1.949	1.949	0.452	142501	47.38	ng/uL	99
4) Pyridine	79	1.992	1.992	0.462	250382	48.66	ng/uL	100
7) Aniline	93	3.955	3.955	0.917	357139	50.07	ng/uL	99
9) Phenol	94	3.896	3.896	0.903	287865	46.43	ng/uL	99
10) bis(2-Chloroethyl) ether	93	4.013	4.013	0.931	217023	44.95	ng/uL	99
11) 2-Chlorophenol	128	4.083	4.083	0.947	242174	45.91	ng/uL	99
12) n-Decane	43	4.115	4.115	0.954	201107	46.13	ng/uL	100
13) 1,3-Dichlorobenzene	146	4.254	4.254	0.986	269271	45.81	ng/uL	100
14) 1,4-Dichlorobenzene	146	4.329	4.329	1.004	277259	45.99	ng/uL	99
15) 1,2-Dichlorobenzene	146	4.495	4.495	1.042	260963	45.84	ng/uL	100
16) bis(2-Chloro-1-methyle...	45	4.591	4.591	1.064	219386	38.82	ng/uL	90
17) Benzyl alcohol	108	4.441	4.441	1.030	153540	43.99	ng/uL	98
18) o-Cresol	107	4.554	4.554	1.056	198423	47.09	ng/uL	100
19) m,p-Cresols	108	4.725	4.725	1.095	229143	46.06	ng/uL	91
20) N-Nitrosodipropylamine	70	4.741	4.735	1.099	151254	42.38	ng/uL	99
21) Hexachloroethane	117	4.875	4.875	1.130	97628	45.47	ng/uL	99
24) Nitrobenzene	77	4.939	4.939	0.868	240508	42.64	ng/uL	99
25) Isophorone	82	5.196	5.195	0.913	434000	41.99	ng/uL	99
26) 2-Nitrophenol	139	5.281	5.281	0.929	125920	42.80	ng/uL	100
27) 2,4-Dimethylphenol	122	5.313	5.313	0.934	212595	50.01	ng/uL	98
28) bis(2-Chloroethoxy)met...	93	5.420	5.420	0.953	273842	42.00	ng/uL	99
29) 2,4-Dichlorophenol	162	5.532	5.532	0.973	209947	42.91	ng/uL	100
30) Benzoic acid	105	5.388	5.393	0.947	141230	41.83	ng/uL	98

Quantitation Report

Data Path : C:\msdchem\1\data\S071123ICAL\
Data File : s4G1110.D
Acq On : 11 Jul 2023 20:53
Operator : NM1
Sample : |WBN230706-43.2|ICV|1|SVM|1|M-ICV
Misc : |MIX[A]
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 13 10:04:31 2023
Quant Method : C:\msdchem\1\data\S071123ICAL\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:54:56 2023
Response via : Initial Calibration

Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	
31) 1,2,4-Trichlorobenzene	180	5.629	5.629	0.990	227104	42.57	ng/uL	99
32) alpha-Terpineol	59	5.709	5.714	1.004	171915	39.21	ng/uL	100
33) Naphthalene	128	5.709	5.709	1.004	709122	43.29	ng/uL	100
34) 4-Chloroaniline	127	5.757	5.757	1.012	293539	43.04	ng/uL	99
35) Hexachlorobutadiene	225	5.832	5.832	1.025	136881	42.83	ng/uL	99
36) 4-Chloro-3-methylphenol	107	6.233	6.233	1.096	199573	42.47	ng/uL	99
37) 2-Methylnaphthalene	142	6.399	6.399	1.125	474588	44.39	ng/uL	99
38) 1-Methylnaphthalene	142	6.490	6.490	1.141	436352	41.50	ng/uL	99
40) Hexachlorocyclopentadiene	237	6.543	6.543	0.889	172636	50.67	ng/uL	99
41) 2,3-Dichloroaniline	161	6.661	6.661	0.905	254154	43.30	ng/uL	99
42) 2,4,6-Trichlorophenol	196	6.661	6.661	0.905	159772	44.76	ng/uL	99
43) 2,4,5-Trichlorophenol	196	6.693	6.693	0.909	160750	41.91	ng/uL	97
45) 2-Chloronaphthalene	162	6.859	6.859	0.932	452081	44.02	ng/uL	99
46) o-Nitroaniline	65	6.945	6.944	0.943	123091	43.75	ng/uL	100
47) 1,4-Dinitrobenzene	168	7.073	7.073	0.961	75272	43.70	ng/uL	97
48) m-Nitroaniline	138	7.314	7.314	0.993	138077	42.99	ng/uL	99
49) Dimethylphthalate	163	7.105	7.105	0.965	525646	43.68	ng/uL	100
50) m-Dinitrobenzene	168	7.137	7.137	0.969	84781	43.15	ng/uL	99
51) 2,6-Dinitrotoluene	165	7.164	7.164	0.973	121529	42.81	ng/uL	100
52) 2,4-Dinitrotoluene	165	7.522	7.522	1.022	162234	42.86	ng/uL	98
53) Acenaphthylene	152	7.239	7.239	0.983	738855	44.05	ng/uL	100
54) Acenaphthene	153	7.394	7.394	1.004	482672	43.83	ng/uL	99
55) 2,4-Dinitrophenol	184	7.404	7.410	1.006	58775	42.67	ng/uL	98
56) Dibenzofuran	168	7.544	7.544	1.025	668235	43.78	ng/uL	100
57) 2,3,4,6-Tetrachlorophenol	232	7.645	7.645	1.039	138124	41.48	ng/uL	97
58) Diethylphthalate	149	7.725	7.725	1.049	527714	43.49	ng/uL	99
59) 4-Nitrophenol	109	7.453	7.453	1.012	65064	44.15	ng/uL	98
60) Fluorene	166	7.843	7.848	1.065	528043	43.09	ng/uL	99
61) 4-Chlorophenylphenylether	204	7.838	7.838	1.065	262697	42.99	ng/uL	100
62) p-Nitroaniline	138	7.854	7.854	1.067	146380	43.17	ng/uL	99
65) 2-Methyl-4,6-dinitroph...	198	7.875	7.875	0.910	86787	45.44	ng/uL	97
66) Diphenylamine	169	7.939	7.939	0.917	459023	43.54	ng/uL	99
67) 1,2-Diphenylhydrazine	77	7.977	7.977	0.922	496992	43.61	ng/uL	99
68) 4-Bromophenylphenylether	248	8.260	8.260	0.954	180288	43.42	ng/uL	99
69) Hexachlorobenzene	284	8.319	8.319	0.961	226424	42.19	ng/uL	100
70) Pentachlorophenol	266	8.485	8.485	0.980	126788	44.50	ng/uL	100
71) n-Octadecane	57	8.517	8.517	0.984	280840	40.14	ng/uL	100
72) Dinoseb	211	8.624	8.624	0.996	129991	42.36	ng/uL	100
73) Phenanthrene	178	8.677	8.677	1.002	795577	44.09	ng/uL	100
74) Anthracene	178	8.720	8.720	1.007	810550	44.29	ng/uL	100
75) Carbazole	167	8.849	8.849	1.022	749076	44.65	ng/uL	99
76) Di-n-butylphthalate	149	9.111	9.111	1.053	929414	45.56	ng/uL	100
77) Fluoranthene	202	9.683	9.683	1.119	891894	44.90	ng/uL	100
78) Pyrene	202	9.876	9.876	1.141	911672	43.71	ng/uL	100
81) Butylbenzylphthalate	149	10.448	10.448	0.937	400781	43.76	ng/uL	100
82) bis(2-Ethylhexyl)phtha...	149	11.116	11.116	0.997	599758	43.39	ng/uL	100
83) Benzo(a)anthracene	228	11.138	11.138	0.999	939089	42.24	ng/uL	99
84) Chrysene	228	11.186	11.186	1.003	844865	42.16	ng/uL	99
85) Methoxychlor	227	11.020	11.020	0.988	600736	43.05	ng/uL	100
86) Methylenebis(2-chloroa...	231	11.090	11.090	0.994	206189	43.34	ng/uL	99
87) Di-n-octylphthalate	149	12.101	12.101	1.085	974190	42.90	ng/uL	99
89) Benzo(b)fluoranthene	252	12.801	12.801	0.947	1048257	44.71	ng/uL	100
90) Benzo(k)fluoranthene	252	12.855	12.855	0.951	1008044	45.75	ng/uL	100
91) Benzo(a)pyrene	252	13.416	13.416	0.992	930536	45.31	ng/uL	100
92) Indeno(1,2,3-cd)pyrene	276	15.802	15.807	1.168	1036531	42.43	ng/uL	99
93) Dibenzo(a,h)anthracene	278	15.861	15.866	1.173	1061036	43.63	ng/uL	100
94) Benzo(ghi)perylene	276	16.374	16.374	1.211	1073841	45.00	ng/uL	99

Quantitation Report

Data Path : C:\msdchem\1\data\S071123ICAL\
Data File : s4G1110.D
Acq On : 11 Jul 2023 20:53
Operator : NM1
Sample : |WBN230706-43.2|ICV|1|SVM|1|M-ICV
Misc : |MIX[A]
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 13 10:04:31 2023
Quant Method : C:\msdchem\1\data\S071123ICAL\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:54:56 2023
Response via : Initial Calibration

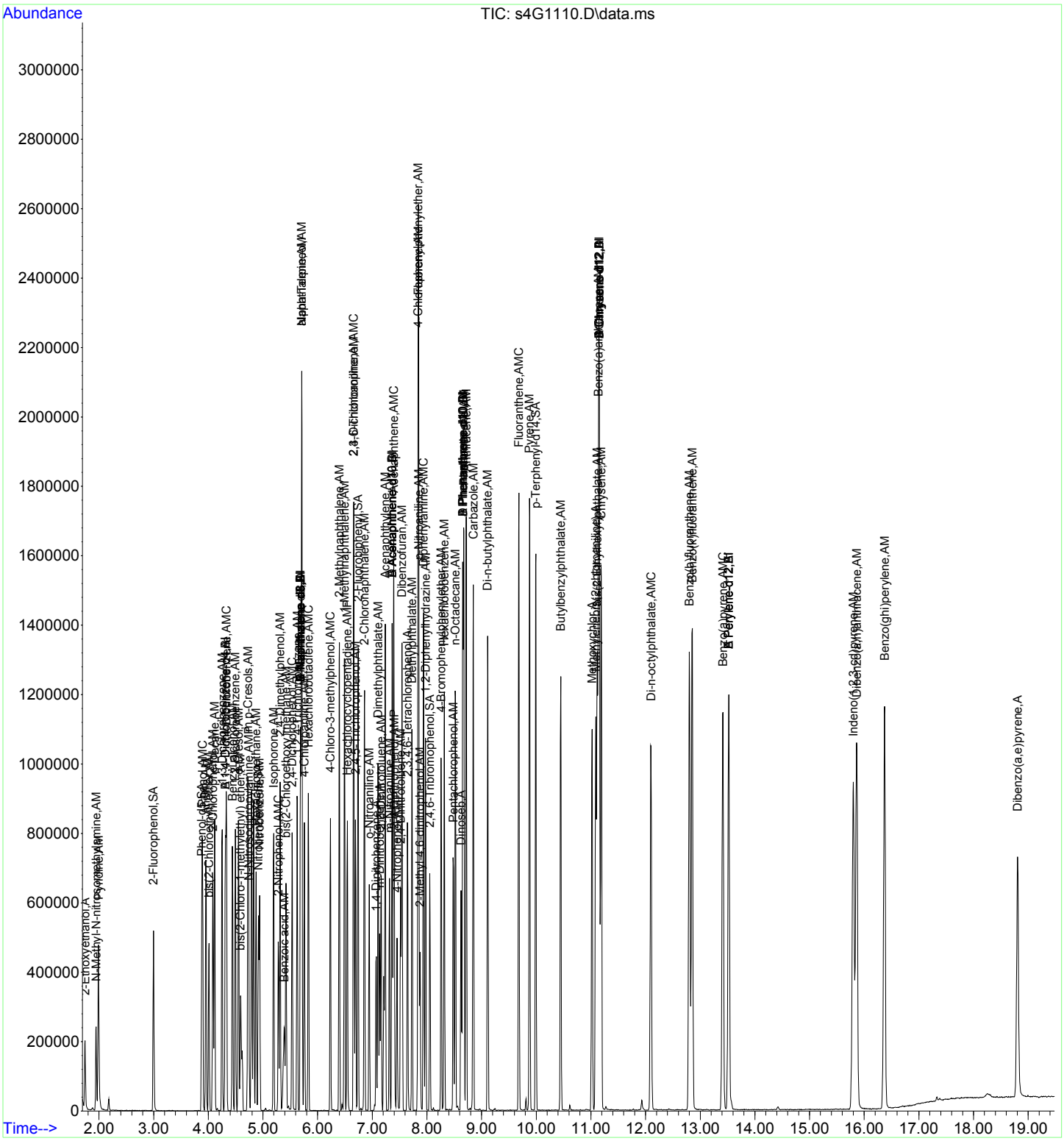
Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	
95) Dibenzo(a,e)pyrene	302	18.808	18.813	1.391	657042	30.06	ng/uL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(A) = Over the calibration range (d) = deleted

Quantitation Report

Data Path : C:\msdchem\1\data\S071123ICAL\
Data File : s4G1110.D
Acq On : 11 Jul 2023 20:53
Operator : NM1
Sample : |WBN230706-43.2|ICV|1|SVM|1|M-ICV
Misc : |MIX[A]
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 13 10:04:31 2023
Quant Method : C:\msdchem\1\data\S071123ICAL\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:54:56 2023
Response via : Initial Calibration



Quantitation Report

07/13/2023

Data Path : C:\msdchem\1\data\S071123ICAL\
Data File : s4G1138.D
Acq On : 12 Jul 2023 18:21
Operator : NM1
Sample : |WBN230710-31.1|ICAL|1|SVM|1|H-2
Misc : |MIX[E]
ALS Vial : 37 Sample Multiplier: 1

07/13/2023

Quant Time: Jul 13 10:08:39 2023
Quant Method : C:\msdchem\1\data\S071123ICAL\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:54:56 2023
Response via : Initial Calibration

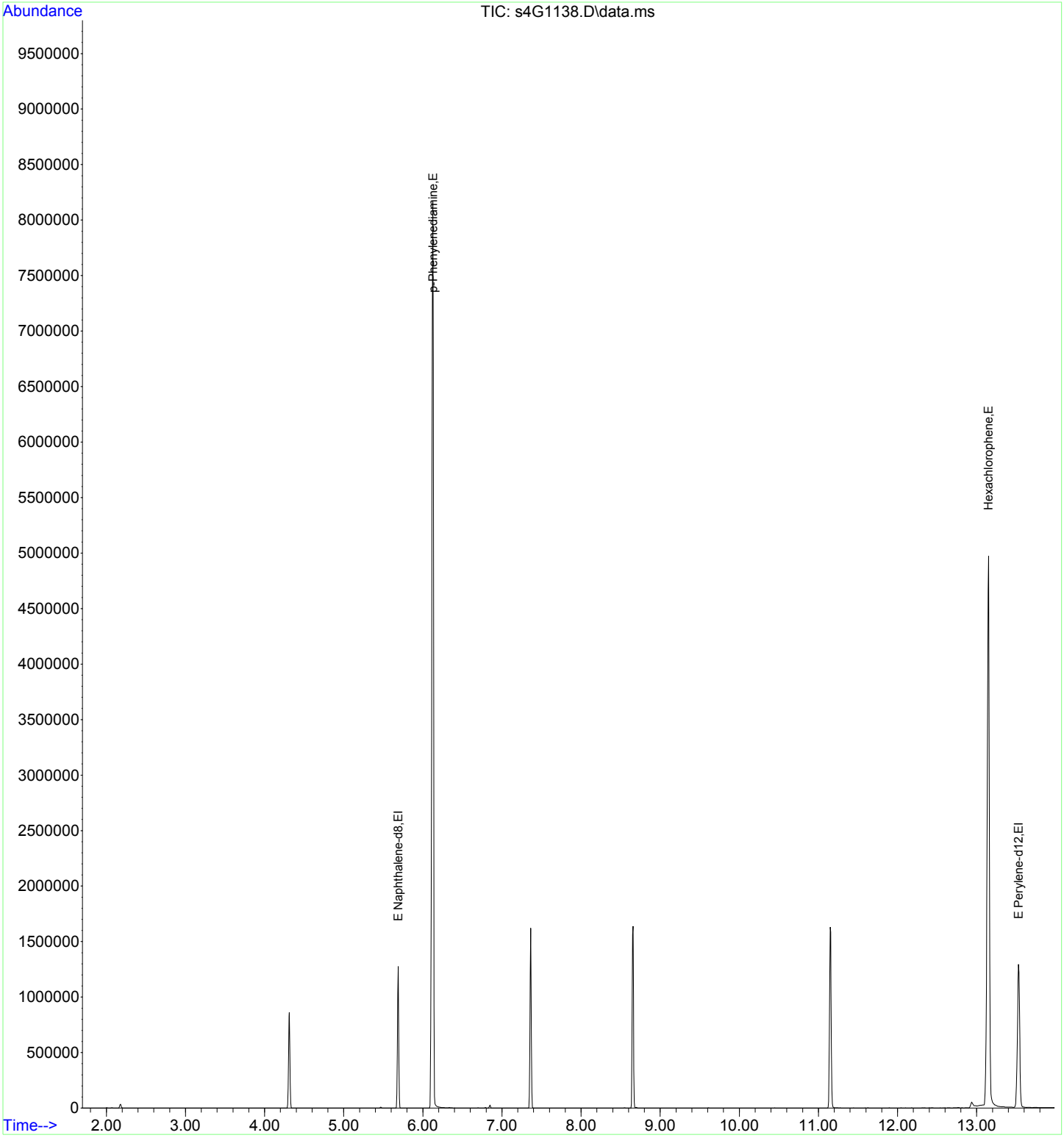
Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	Dev(Min)
Internal Standards								
1) A 1,4-Dichlorobenzene-d4	152	4.313	4.313	1.000	0m	40.00	ng/uL	0.00
22) A Naphthalene-d8	136	5.688	5.688	1.000	0m	40.00	ng/uL	0.00
39) A Acenaphthene-d10	164	7.362	7.362	1.000	0m	40.00	ng/uL	0.00
64) A Phenanthrene-d10	188	8.656	8.656	1.000	0m	40.00	ng/uL	0.00
80) A Chrysene-d12	240	11.149	11.154	1.000	0m	40.00	ng/uL	0.00
88) A Perylene-d12	264	13.529	13.523	1.000	0m	40.00	ng/uL	0.00
96) B 1,4-Dichlorobenzene-d4	152	4.313	4.313	1.000	0m	40.00	ng/uL	0.00
112) B Naphthalene-d8	136	5.688	5.688	1.000	0m	40.00	ng/uL	0.00
120) B Acenaphthene-d10	164	7.362	7.362	1.000	0m	40.00	ng/uL	0.00
129) B Phenanthrene-d10	188	8.656	8.656	1.000	0m	40.00	ng/uL	0.00
142) B Chrysene-d12	240	11.149	11.154	1.000	0m	40.00	ng/uL	0.00
148) B Perylene-d12	264	13.529	13.523	1.000	0m	40.00	ng/uL	0.00
151) J Naphthalene-d8	136	5.688	5.688	1.000	0m	40.00	ng/uL	0.00
153) J Phenanthrene-d10	188	8.656	8.656	1.000	0m	40.00	ng/uL	0.00
156) J Chrysene-d12	240	11.149	11.154	1.000	0m	40.00	ng/uL	0.00
159) D Naphthalene-d8	136	5.688	5.688	1.000	0m	40.00	ng/uL	0.00
161) D Acenaphthene-d10	164	7.362	7.362	1.000	0m	40.00	ng/uL	0.00
164) D Phenanthrene-d10	188	8.656	8.656	1.000	0m	40.00	ng/uL	0.00
171) D Chrysene-d12	240	11.149	11.154	1.000	0m	40.00	ng/uL	0.00
173) E Naphthalene-d8	136	5.688	5.688	1.000	708240	40.00	ng/uL	0.00
175) E Perylene-d12	264	13.529	13.540	1.000	975519	40.00	ng/uL	-0.01
System Monitoring Compounds								Dev(Min)
5) 2-Fluorophenol	112	0.000	2.997	0.000	0	0.00	ng/uL	
8) Phenol-d5	99	0.000	3.880	0.000	0	0.00	ng/uL	
23) Nitrobenzene-d5	82	0.000	4.917	0.000	0	0.00	ng/uL	
44) 2-Fluorobiphenyl	172	0.000	6.741	0.000	0	0.00	ng/uL	
63) 2,4,6-Tribromophenol	330	0.000	8.052	0.000	0	0.00	ng/uL	
79) p-Terphenyl-d14	244	0.000	9.993	0.000	0	0.00	ng/uL	
Target Compounds	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	QValue
174) p-Phenylenediamine	108	6.124	6.127	1.077	4107002	509.85	ng/uL	98
176) Hexachlorophene	196	13.149	13.160	0.972	753906	493.21	ng/uL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(A) = Over the calibration range (d) = deleted

Quantitation Report

Data Path : C:\msdchem\1\data\S071123ICAL\
Data File : s4G1138.D
Acq On : 12 Jul 2023 18:21
Operator : NM1
Sample : |WBN230710-31.1|ICAL|1|SVM|1|H-2
Misc : |MIX[E]
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Jul 13 10:08:39 2023
Quant Method : C:\msdchem\1\data\S071123ICAL\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:54:56 2023
Response via : Initial Calibration



Quantitation Report

07/13/2023

Data Path : C:\msdchem\1\data\S071123ICAL\
Data File : s4G1139.D
Acq On : 12 Jul 2023 18:40
Operator : NM1
Sample : |WBN230710-32|ICAL|1|SVM|1|H-3
Misc : |MIX[E]
ALS Vial : 38 Sample Multiplier: 1

07/13/2023

Quant Time: Jul 13 09:53:08 2023
Quant Method : C:\msdchem\1\data\S071123ICAL\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:53:07 2023
Response via : Initial Calibration

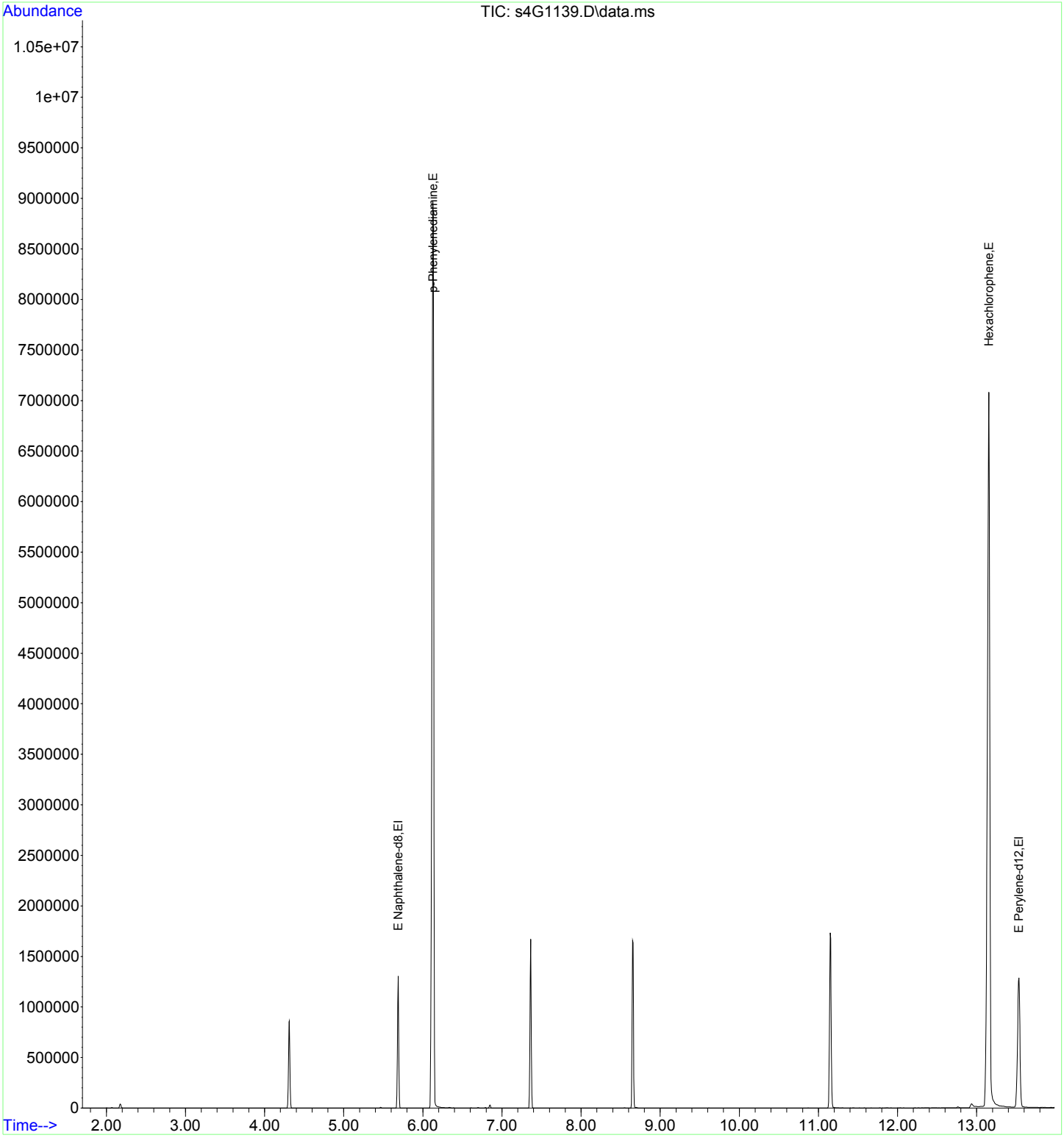
Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	Dev(Min)
Internal Standards								
1) A 1,4-Dichlorobenzene-d4	152	4.313	4.313	1.000	0m	40.00	ng/uL	0.00
22) A Naphthalene-d8	136	5.688	5.688	1.000	0m	40.00	ng/uL	0.00
39) A Acenaphthene-d10	164	7.362	7.362	1.000	0m	40.00	ng/uL	0.00
64) A Phenanthrene-d10	188	8.651	8.656	1.000	0m	40.00	ng/uL	0.00
80) A Chrysene-d12	240	11.149	11.154	1.000	0m	40.00	ng/uL	0.00
88) A Perylene-d12	264	13.534	13.523	1.000	0m	40.00	ng/uL	0.01
96) B 1,4-Dichlorobenzene-d4	152	4.313	4.313	1.000	0m	40.00	ng/uL	0.00
112) B Naphthalene-d8	136	5.688	5.688	1.000	0m	40.00	ng/uL	0.00
120) B Acenaphthene-d10	164	7.362	7.362	1.000	0m	40.00	ng/uL	0.00
129) B Phenanthrene-d10	188	8.651	8.656	1.000	0m	40.00	ng/uL	0.00
142) B Chrysene-d12	240	11.149	11.154	1.000	0m	40.00	ng/uL	0.00
148) B Perylene-d12	264	13.534	13.523	1.000	0m	40.00	ng/uL	0.01
151) J Naphthalene-d8	136	5.688	5.688	1.000	0m	40.00	ng/uL	0.00
153) J Phenanthrene-d10	188	8.651	8.656	1.000	0m	40.00	ng/uL	0.00
156) J Chrysene-d12	240	11.149	11.154	1.000	0m	40.00	ng/uL	0.00
159) D Naphthalene-d8	136	5.688	5.688	1.000	0m	40.00	ng/uL	0.00
161) D Acenaphthene-d10	164	7.362	7.362	1.000	0m	40.00	ng/uL	0.00
164) D Phenanthrene-d10	188	8.651	8.656	1.000	0m	40.00	ng/uL	0.00
171) D Chrysene-d12	240	11.149	11.154	1.000	0m	40.00	ng/uL	0.00
173) E Naphthalene-d8	136	5.688	5.688	1.000	727776	40.00	ng/uL	0.00
175) E Perylene-d12	264	13.534	13.540	1.000	1025156	40.00	ng/uL	0.00
System Monitoring Compounds								Dev(Min)
5) 2-Fluorophenol	112	0.000	2.997	0.000	0	0.00	ng/uL	
8) Phenol-d5	99	0.000	3.880	0.000	0	0.00	ng/uL	
23) Nitrobenzene-d5	82	0.000	4.917	0.000	0	0.00	ng/uL	
44) 2-Fluorobiphenyl	172	0.000	6.741	0.000	0	0.00	ng/uL	
63) 2,4,6-Tribromophenol	330	0.000	8.052	0.000	0	0.00	ng/uL	
79) p-Terphenyl-d14	244	0.000	9.993	0.000	0	0.00	ng/uL	
Target Compounds	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	QValue
174) p-Phenylenediamine	108	6.126	6.127	1.077	4988511	602.61	ng/uL	98
176) Hexachlorophene	196	13.154	13.160	0.972	1180950	604.49	ng/uL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(A) = Over the calibration range (d) = deleted

Quantitation Report

Data Path : C:\msdchem\1\data\S071123ICAL\
Data File : s4G1139.D
Acq On : 12 Jul 2023 18:40
Operator : NM1
Sample : |WBN230710-32|ICAL|1|SVM|1|H-3
Misc : |MIX[E]
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Jul 13 09:53:08 2023
Quant Method : C:\msdchem\1\data\S071123ICAL\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:53:07 2023
Response via : Initial Calibration



Quantitation Report

07/13/2023

Data Path : C:\msdchem\1\data\S071123ICAL\
Data File : s4G1140.D
Acq On : 12 Jul 2023 18:58
Operator : NM1
Sample : |WBN230710-33|ICAL|1|SVM|1|H-4
Misc : |MIX[E]
ALS Vial : 39 Sample Multiplier: 1

07/13/2023

Quant Time: Jul 13 09:53:16 2023
Quant Method : C:\msdchem\1\data\S071123ICAL\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:53:15 2023
Response via : Initial Calibration

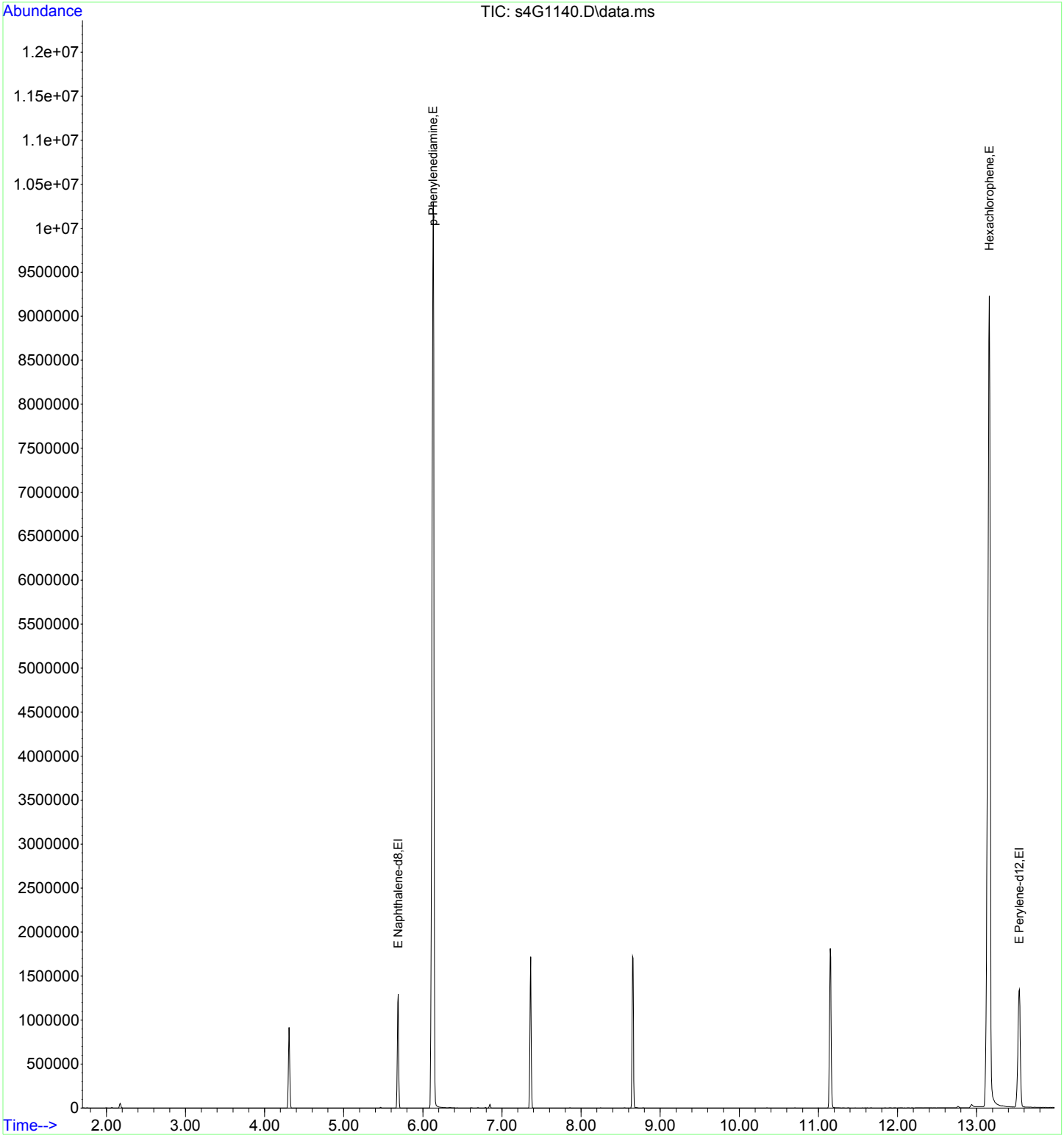
Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	Dev(Min)
Internal Standards								
1) A 1,4-Dichlorobenzene-d4	152	4.308	4.313	1.000	0m	40.00	ng/uL	0.00
22) A Naphthalene-d8	136	5.688	5.688	1.000	0m	40.00	ng/uL	0.00
39) A Acenaphthene-d10	164	7.362	7.362	1.000	0m	40.00	ng/uL	0.00
64) A Phenanthrene-d10	188	8.651	8.656	1.000	0m	40.00	ng/uL	0.00
80) A Chrysene-d12	240	11.149	11.154	1.000	0m	40.00	ng/uL	0.00
88) A Perylene-d12	264	13.540	13.523	1.000	0m	40.00	ng/uL	0.02
96) B 1,4-Dichlorobenzene-d4	152	4.308	4.313	1.000	0m	40.00	ng/uL	0.00
112) B Naphthalene-d8	136	5.688	5.688	1.000	0m	40.00	ng/uL	0.00
120) B Acenaphthene-d10	164	7.362	7.362	1.000	0m	40.00	ng/uL	0.00
129) B Phenanthrene-d10	188	8.651	8.656	1.000	0m	40.00	ng/uL	0.00
142) B Chrysene-d12	240	11.149	11.154	1.000	0m	40.00	ng/uL	0.00
148) B Perylene-d12	264	13.540	13.523	1.000	0m	40.00	ng/uL	0.02
151) J Naphthalene-d8	136	5.688	5.688	1.000	0m	40.00	ng/uL	0.00
153) J Phenanthrene-d10	188	8.651	8.656	1.000	0m	40.00	ng/uL	0.00
156) J Chrysene-d12	240	11.149	11.154	1.000	0m	40.00	ng/uL	0.00
159) D Naphthalene-d8	136	5.688	5.688	1.000	0m	40.00	ng/uL	0.00
161) D Acenaphthene-d10	164	7.362	7.362	1.000	0m	40.00	ng/uL	0.00
164) D Phenanthrene-d10	188	8.651	8.656	1.000	0m	40.00	ng/uL	0.00
171) D Chrysene-d12	240	11.149	11.154	1.000	0m	40.00	ng/uL	0.00
173) E Naphthalene-d8	136	5.688	5.688	1.000	744343	40.00	ng/uL	0.00
175) E Perylene-d12	264	13.540	13.540	1.000	1072772	40.00	ng/uL	0.00
System Monitoring Compounds								Dev(Min)
5) 2-Fluorophenol	112	0.000	2.997	0.000	0	0.00	ng/uL	
8) Phenol-d5	99	0.000	3.880	0.000	0	0.00	ng/uL	
23) Nitrobenzene-d5	82	0.000	4.917	0.000	0	0.00	ng/uL	
44) 2-Fluorobiphenyl	172	0.000	6.741	0.000	0	0.00	ng/uL	
63) 2,4,6-Tribromophenol	330	0.000	8.052	0.000	0	0.00	ng/uL	
79) p-Terphenyl-d14	244	0.000	9.993	0.000	0	0.00	ng/uL	
Target Compounds	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	QValue
174) p-Phenylenediamine	108	6.127	6.127	1.077	5869244	693.24	ng/uL	100
176) Hexachlorophene	196	13.160	13.160	0.972	1628240	711.87	ng/uL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(A) = Over the calibration range (d) = deleted

Quantitation Report

Data Path : C:\msdchem\1\data\S071123ICAL\
Data File : s4G1140.D
Acq On : 12 Jul 2023 18:58
Operator : NM1
Sample : |WBN230710-33|ICAL|1|SVM|1|H-4
Misc : |MIX[E]
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Jul 13 09:53:16 2023
Quant Method : C:\msdchem\1\data\S071123ICAL\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:53:15 2023
Response via : Initial Calibration



Quantitation Report

07/13/2023

Data Path : C:\msdchem\1\data\S071123ICAL\
Data File : s4G1141.D
Acq On : 12 Jul 2023 19:16
Operator : NM1
Sample : |WBN230710-34|ICAL|1|SVM|1|H-5
Misc : |MIX[E]
ALS Vial : 40 Sample Multiplier: 1

07/13/2023

Quant Time: Jul 13 09:53:24 2023
Quant Method : C:\msdchem\1\data\S071123ICAL\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:53:23 2023
Response via : Initial Calibration

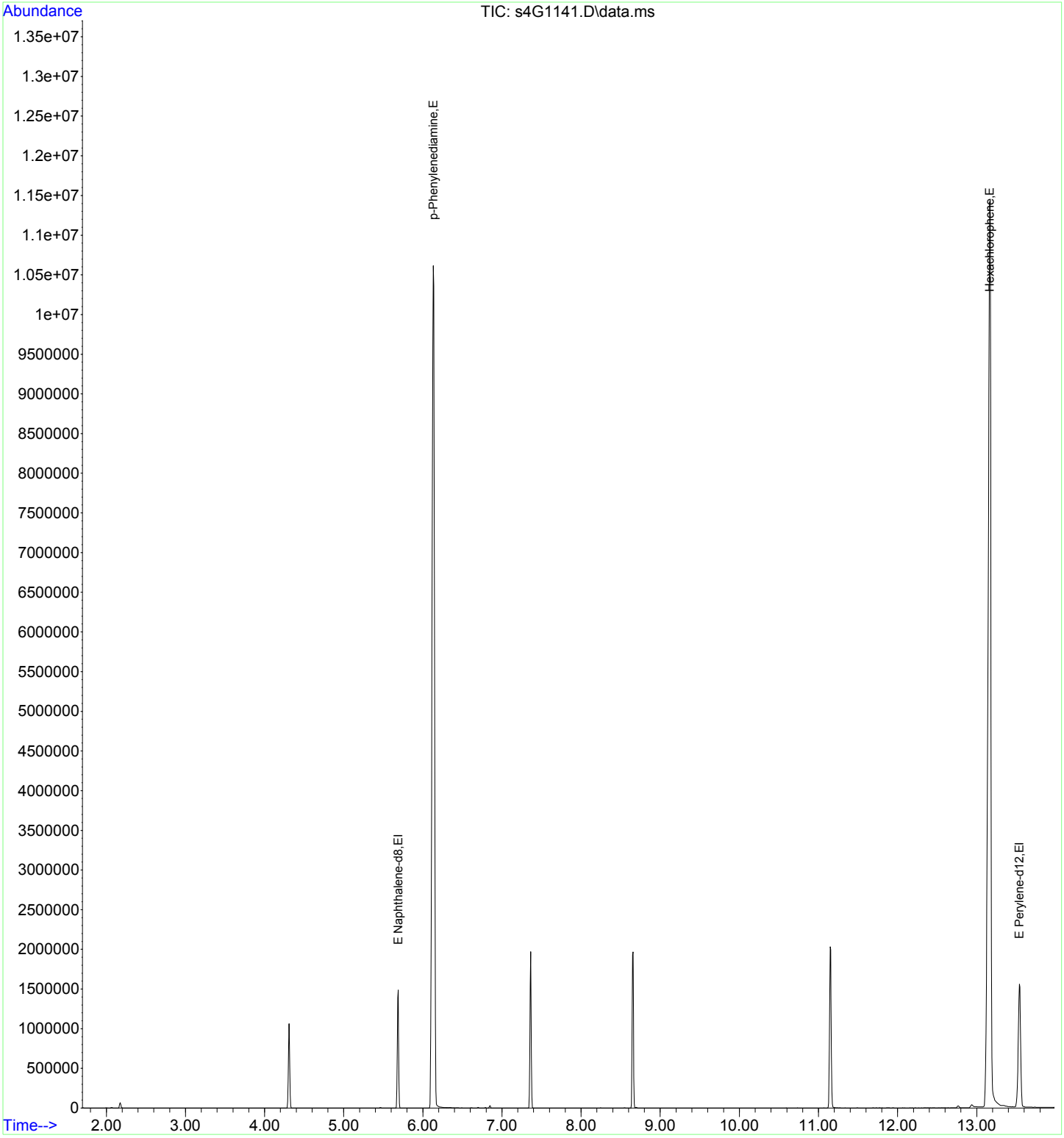
Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	Dev(Min)
Internal Standards								
1) A 1,4-Dichlorobenzene-d4	152	4.308	4.313	1.000	0m	40.00	ng/uL	0.00
22) A Naphthalene-d8	136	5.688	5.688	1.000	0m	40.00	ng/uL	0.00
39) A Acenaphthene-d10	164	7.362	7.362	1.000	0m	40.00	ng/uL	0.00
64) A Phenanthrene-d10	188	8.656	8.656	1.000	0m	40.00	ng/uL	0.00
80) A Chrysene-d12	240	11.149	11.154	1.000	0m	40.00	ng/uL	0.00
88) A Perylene-d12	264	13.539	13.523	1.000	0m	40.00	ng/uL	0.02
96) B 1,4-Dichlorobenzene-d4	152	4.308	4.313	1.000	0m	40.00	ng/uL	0.00
112) B Naphthalene-d8	136	5.688	5.688	1.000	0m	40.00	ng/uL	0.00
120) B Acenaphthene-d10	164	7.362	7.362	1.000	0m	40.00	ng/uL	0.00
129) B Phenanthrene-d10	188	8.656	8.656	1.000	0m	40.00	ng/uL	0.00
142) B Chrysene-d12	240	11.149	11.154	1.000	0m	40.00	ng/uL	0.00
148) B Perylene-d12	264	13.539	13.523	1.000	0m	40.00	ng/uL	0.02
151) J Naphthalene-d8	136	5.688	5.688	1.000	0m	40.00	ng/uL	0.00
153) J Phenanthrene-d10	188	8.656	8.656	1.000	0m	40.00	ng/uL	0.00
156) J Chrysene-d12	240	11.149	11.154	1.000	0m	40.00	ng/uL	0.00
159) D Naphthalene-d8	136	5.688	5.688	1.000	0m	40.00	ng/uL	0.00
161) D Acenaphthene-d10	164	7.362	7.362	1.000	0m	40.00	ng/uL	0.00
164) D Phenanthrene-d10	188	8.656	8.656	1.000	0m	40.00	ng/uL	0.00
171) D Chrysene-d12	240	11.149	11.154	1.000	0m	40.00	ng/uL	0.00
173) E Naphthalene-d8	136	5.688	5.688	1.000	846940	40.00	ng/uL	0.00
175) E Perylene-d12	264	13.539	13.540	1.000	1212329	40.00	ng/uL	0.00
System Monitoring Compounds								Dev(Min)
5) 2-Fluorophenol	112	0.000	2.997	0.000	0	0.00	ng/uL	
8) Phenol-d5	99	0.000	3.880	0.000	0	0.00	ng/uL	
23) Nitrobenzene-d5	82	0.000	4.917	0.000	0	0.00	ng/uL	
44) 2-Fluorobiphenyl	172	0.000	6.741	0.000	0	0.00	ng/uL	
63) 2,4,6-Tribromophenol	330	0.000	8.052	0.000	0	0.00	ng/uL	
79) p-Terphenyl-d14	244	0.000	9.993	0.000	0	0.00	ng/uL	
Target Compounds	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	QValue
174) p-Phenylenediamine	108	6.131	6.127	1.078	7588769	787.76	ng/uL	100
176) Hexachlorophene	196	13.165	13.160	0.972	2211810	801.87	ng/uL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(A) = Over the calibration range (d) = deleted

Quantitation Report

Data Path : C:\msdchem\1\data\S071123ICAL\
Data File : s4G1141.D
Acq On : 12 Jul 2023 19:16
Operator : NM1
Sample : |WBN230710-34|ICAL|1|SVM|1|H-5
Misc : |MIX[E]
ALS Vial : 40 Sample Multiplier: 1

Quant Time: Jul 13 09:53:24 2023
Quant Method : C:\msdchem\1\data\S071123ICAL\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:53:23 2023
Response via : Initial Calibration



Quantitation Report

NM 07/13/2023

Data Path : C:\msdchem\1\data\S071123ICAL\
Data File : s4G1142.D
Acq On : 12 Jul 2023 19:35
Operator : NM1
Sample : |WBN230710-35|ICAL|1|SVM|1|H-6
Misc : |MIX[E]
ALS Vial : 41 Sample Multiplier: 1

AJF 07/13/2023

Quant Time: Jul 13 09:53:32 2023
Quant Method : C:\msdchem\1\data\S071123ICAL\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:53:32 2023
Response via : Initial Calibration

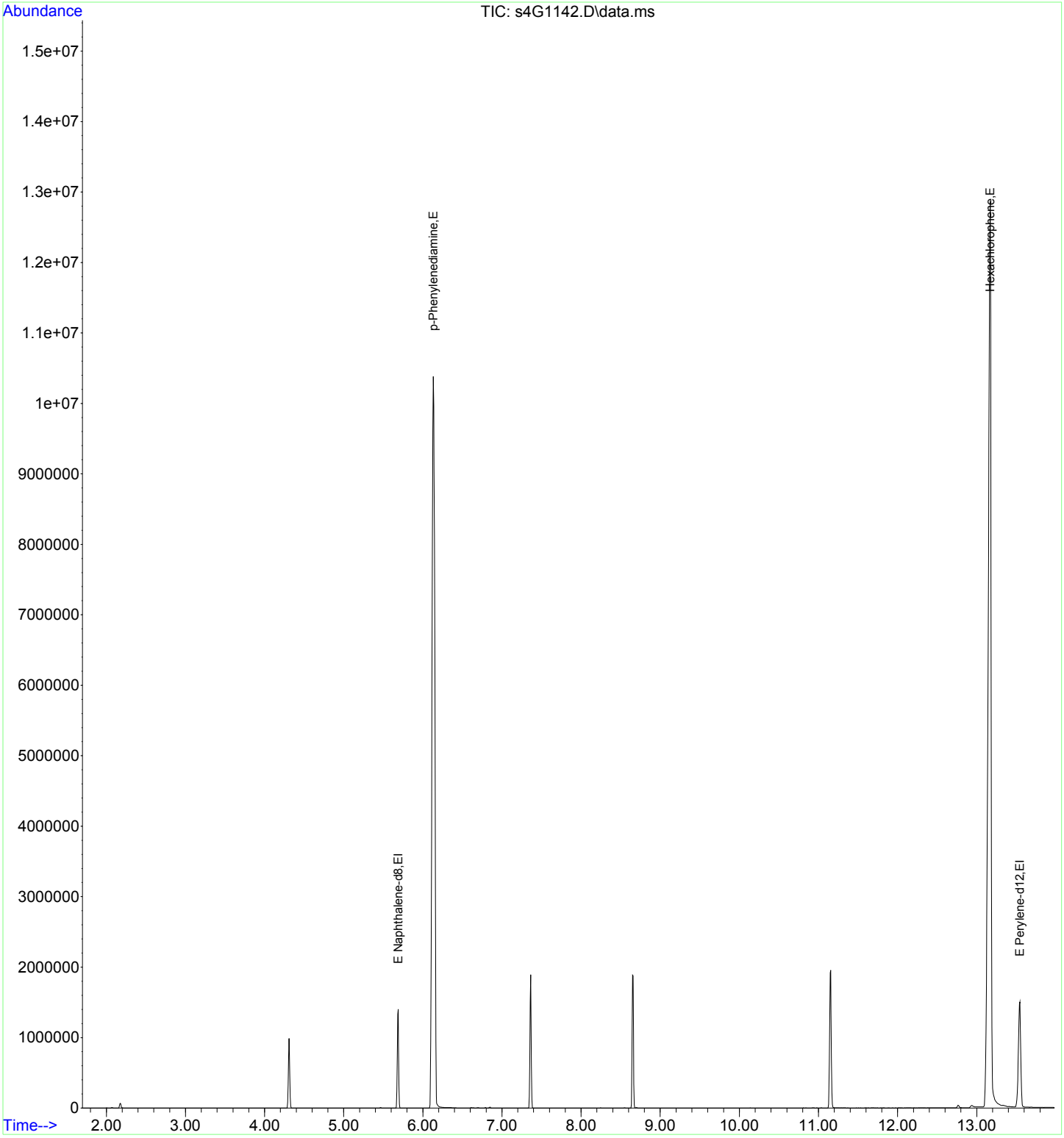
Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	Dev(Min)
Internal Standards								
1) A 1,4-Dichlorobenzene-d4	152	4.308	4.313	1.000	0m	40.00	ng/uL	0.00
22) A Naphthalene-d8	136	5.688	5.688	1.000	0m	40.00	ng/uL	0.00
39) A Acenaphthene-d10	164	7.362	7.362	1.000	0m	40.00	ng/uL	0.00
64) A Phenanthrene-d10	188	8.651	8.656	1.000	0m	40.00	ng/uL	0.00
80) A Chrysene-d12	240	11.154	11.154	1.000	0m	40.00	ng/uL	0.00
88) A Perylene-d12	264	13.545	13.523	1.000	0m	40.00	ng/uL	0.02
96) B 1,4-Dichlorobenzene-d4	152	4.308	4.313	1.000	0m	40.00	ng/uL	0.00
112) B Naphthalene-d8	136	5.688	5.688	1.000	0m	40.00	ng/uL	0.00
120) B Acenaphthene-d10	164	7.362	7.362	1.000	0m	40.00	ng/uL	0.00
129) B Phenanthrene-d10	188	8.651	8.656	1.000	0m	40.00	ng/uL	0.00
142) B Chrysene-d12	240	11.154	11.154	1.000	0m	40.00	ng/uL	0.00
148) B Perylene-d12	264	13.545	13.523	1.000	0m	40.00	ng/uL	0.02
151) J Naphthalene-d8	136	5.688	5.688	1.000	0m	40.00	ng/uL	0.00
153) J Phenanthrene-d10	188	8.651	8.656	1.000	0m	40.00	ng/uL	0.00
156) J Chrysene-d12	240	11.154	11.154	1.000	0m	40.00	ng/uL	0.00
159) D Naphthalene-d8	136	5.688	5.688	1.000	0m	40.00	ng/uL	0.00
161) D Acenaphthene-d10	164	7.362	7.362	1.000	0m	40.00	ng/uL	0.00
164) D Phenanthrene-d10	188	8.651	8.656	1.000	0m	40.00	ng/uL	0.00
171) D Chrysene-d12	240	11.154	11.154	1.000	0m	40.00	ng/uL	0.00
173) E Naphthalene-d8	136	5.688	5.688	1.000	804937	40.00	ng/uL	0.00
175) E Perylene-d12	264	13.545	13.540	1.000	1158506	40.00	ng/uL	0.00
System Monitoring Compounds								Dev(Min)
5) 2-Fluorophenol	112	0.000	2.997	0.000	0	0.00	ng/uL	
8) Phenol-d5	99	0.000	3.880	0.000	0	0.00	ng/uL	
23) Nitrobenzene-d5	82	0.000	4.917	0.000	0	0.00	ng/uL	
44) 2-Fluorobiphenyl	172	0.000	6.741	0.000	0	0.00	ng/uL	
63) 2,4,6-Tribromophenol	330	0.000	8.052	0.000	0	0.00	ng/uL	
79) p-Terphenyl-d14	244	0.000	9.993	0.000	0	0.00	ng/uL	
Target Compounds	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	QValue
174) p-Phenylenediamine	108	6.134	6.127	1.078	8365623	913.73	ng/uL	99
176) Hexachlorophene	196	13.170	13.160	0.972	2524506	905.97	ng/uL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(A) = Over the calibration range (d) = deleted

Quantitation Report

Data Path : C:\msdchem\1\data\S071123ICAL\
Data File : s4G1142.D
Acq On : 12 Jul 2023 19:35
Operator : NM1
Sample : |WBN230710-35|ICAL|1|SVM|1|H-6
Misc : |MIX[E]
ALS Vial : 41 Sample Multiplier: 1

Quant Time: Jul 13 09:53:32 2023
Quant Method : C:\msdchem\1\data\S071123ICAL\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:53:32 2023
Response via : Initial Calibration



Quantitation Report

NM 07/13/2023

Data Path : C:\msdchem\1\data\S071123ICAL\
Data File : s4G1143.D
Acq On : 12 Jul 2023 19:53
Operator : NM1
Sample : |WBN230710-37|ICAL|1|SVM|1|H-7
Misc : |MIX[E]
ALS Vial : 42 Sample Multiplier: 1

AL 07/13/2023

Quant Time: Jul 13 09:53:40 2023
Quant Method : C:\msdchem\1\data\S071123ICAL\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:53:40 2023
Response via : Initial Calibration

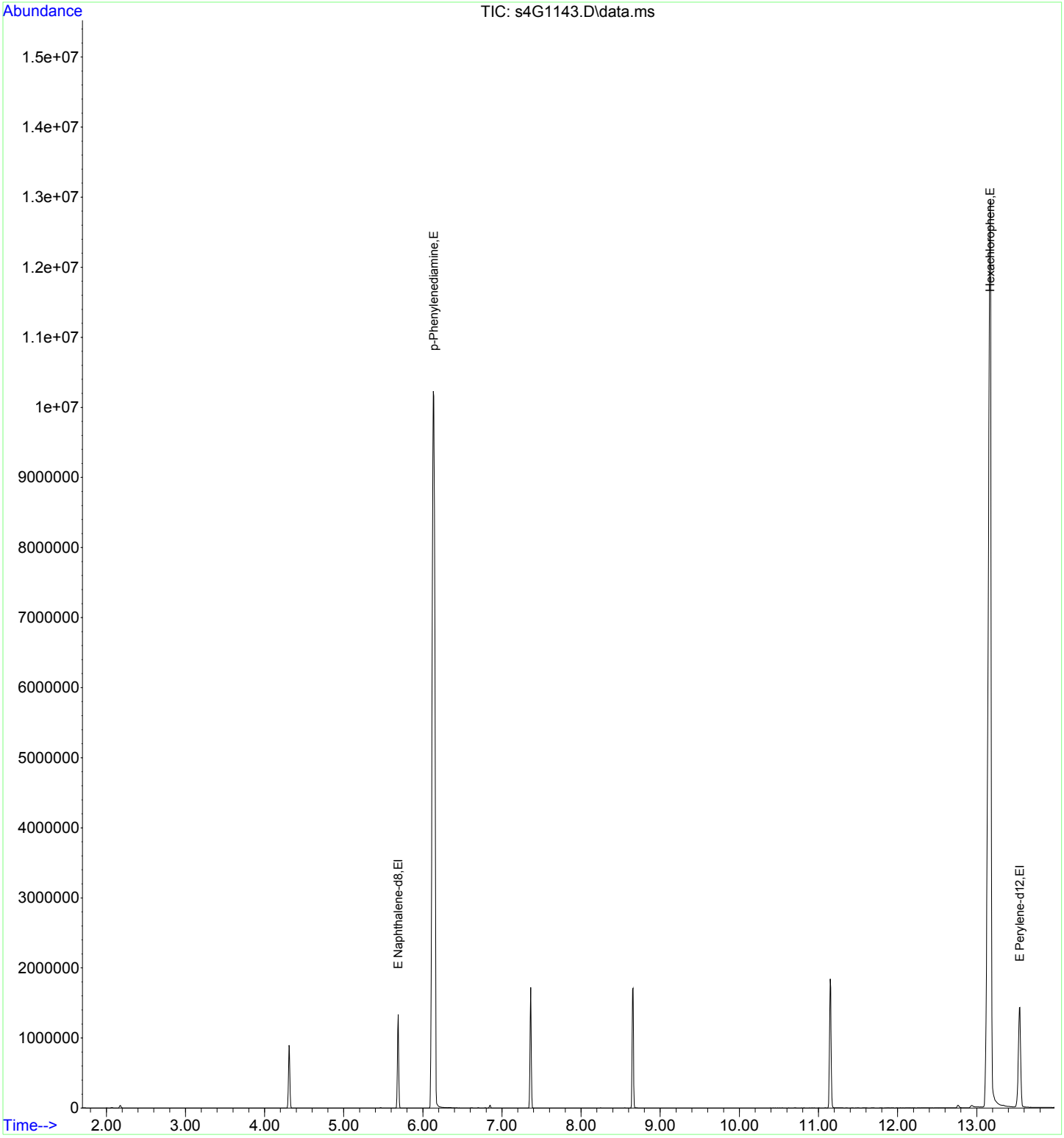
Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	Dev(Min)
Internal Standards								
1) A 1,4-Dichlorobenzene-d4	152	4.308	4.313	1.000	0m	40.00	ng/uL	0.00
22) A Naphthalene-d8	136	5.688	5.688	1.000	0m	40.00	ng/uL	0.00
39) A Acenaphthene-d10	164	7.362	7.362	1.000	0m	40.00	ng/uL	0.00
64) A Phenanthrene-d10	188	8.656	8.656	1.000	0m	40.00	ng/uL	0.00
80) A Chrysene-d12	240	11.149	11.154	1.000	0m	40.00	ng/uL	0.00
88) A Perylene-d12	264	13.545	13.523	1.000	0m	40.00	ng/uL	0.02
96) B 1,4-Dichlorobenzene-d4	152	4.308	4.313	1.000	0m	40.00	ng/uL	0.00
112) B Naphthalene-d8	136	5.688	5.688	1.000	0m	40.00	ng/uL	0.00
120) B Acenaphthene-d10	164	7.362	7.362	1.000	0m	40.00	ng/uL	0.00
129) B Phenanthrene-d10	188	8.656	8.656	1.000	0m	40.00	ng/uL	0.00
142) B Chrysene-d12	240	11.149	11.154	1.000	0m	40.00	ng/uL	0.00
148) B Perylene-d12	264	13.545	13.523	1.000	0m	40.00	ng/uL	0.02
151) J Naphthalene-d8	136	5.688	5.688	1.000	0m	40.00	ng/uL	0.00
153) J Phenanthrene-d10	188	8.656	8.656	1.000	0m	40.00	ng/uL	0.00
156) J Chrysene-d12	240	11.149	11.154	1.000	0m	40.00	ng/uL	0.00
159) D Naphthalene-d8	136	5.688	5.688	1.000	0m	40.00	ng/uL	0.00
161) D Acenaphthene-d10	164	7.362	7.362	1.000	0m	40.00	ng/uL	0.00
164) D Phenanthrene-d10	188	8.656	8.656	1.000	0m	40.00	ng/uL	0.00
171) D Chrysene-d12	240	11.149	11.154	1.000	0m	40.00	ng/uL	0.00
173) E Naphthalene-d8	136	5.688	5.688	1.000	748675	40.00	ng/uL	0.00
175) E Perylene-d12	264	13.545	13.540	1.000	1084376	40.00	ng/uL	0.00
System Monitoring Compounds								Dev(Min)
5) 2-Fluorophenol	112	0.000	2.997	0.000	0	0.00	ng/uL	
8) Phenol-d5	99	0.000	3.880	0.000	0	0.00	ng/uL	
23) Nitrobenzene-d5	82	0.000	4.917	0.000	0	0.00	ng/uL	
44) 2-Fluorobiphenyl	172	0.000	6.741	0.000	0	0.00	ng/uL	
63) 2,4,6-Tribromophenol	330	0.000	8.052	0.000	0	0.00	ng/uL	
79) p-Terphenyl-d14	244	0.000	9.993	0.000	0	0.00	ng/uL	
Target Compounds	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	QValue
174) p-Phenylenediamine	108	6.135	6.127	1.079	8391145	985.41	ng/uL	99
176) Hexachlorophene	196	13.170	13.160	0.972	2637096	980.17	ng/uL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(A) = Over the calibration range (d) = deleted

Quantitation Report

Data Path : C:\msdchem\1\data\S071123ICAL\
Data File : s4G1143.D
Acq On : 12 Jul 2023 19:53
Operator : NM1
Sample : |WBN230710-37|ICAL|1|SVM|1|H-7
Misc : |MIX[E]
ALS Vial : 42 Sample Multiplier: 1

Quant Time: Jul 13 09:53:40 2023
Quant Method : C:\msdchem\1\data\S071123ICAL\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:53:40 2023
Response via : Initial Calibration



Continuing Calibration Summary

Client SDG: 631221

Instrument ID: MSD4.I **Injection Date:** 12-JUL-23 20:12

Data File: S071123ICAL\s4G1144.D **Init. Cal. Date(s)** 11-JUL-23 17:37 - 12-JUL-23 19:53

Lab Sample ID WBN230602-37.1 **Method:** S071123ICAL\MSD4_8270_071123.m

Quant Type ISTD **Method Update:** 13-JUL-23 09:54

Compound	AVERF / Amount	RF CCV	Nominal CCV	Min RF	RF Q	%D / %Drift	Max	Drift Q	Curve Type
Hexachlorophene	700	771.81	700			10.25857	50		Linear

Quantitation Report

07/13/2023

Data Path : C:\msdchem\1\data\S071123ICAL\
Data File : s4G1144.D
Acq On : 12 Jul 2023 20:12
Operator : NM1
Sample : |WBN230602-37.1|ICV|1|SVM|1|H-ICV
Misc : |MIX[E]
ALS Vial : 43 Sample Multiplier: 1

07/13/2023

Quant Time: Jul 13 10:08:08 2023
Quant Method : C:\msdchem\1\data\S071123ICAL\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:54:56 2023
Response via : Initial Calibration

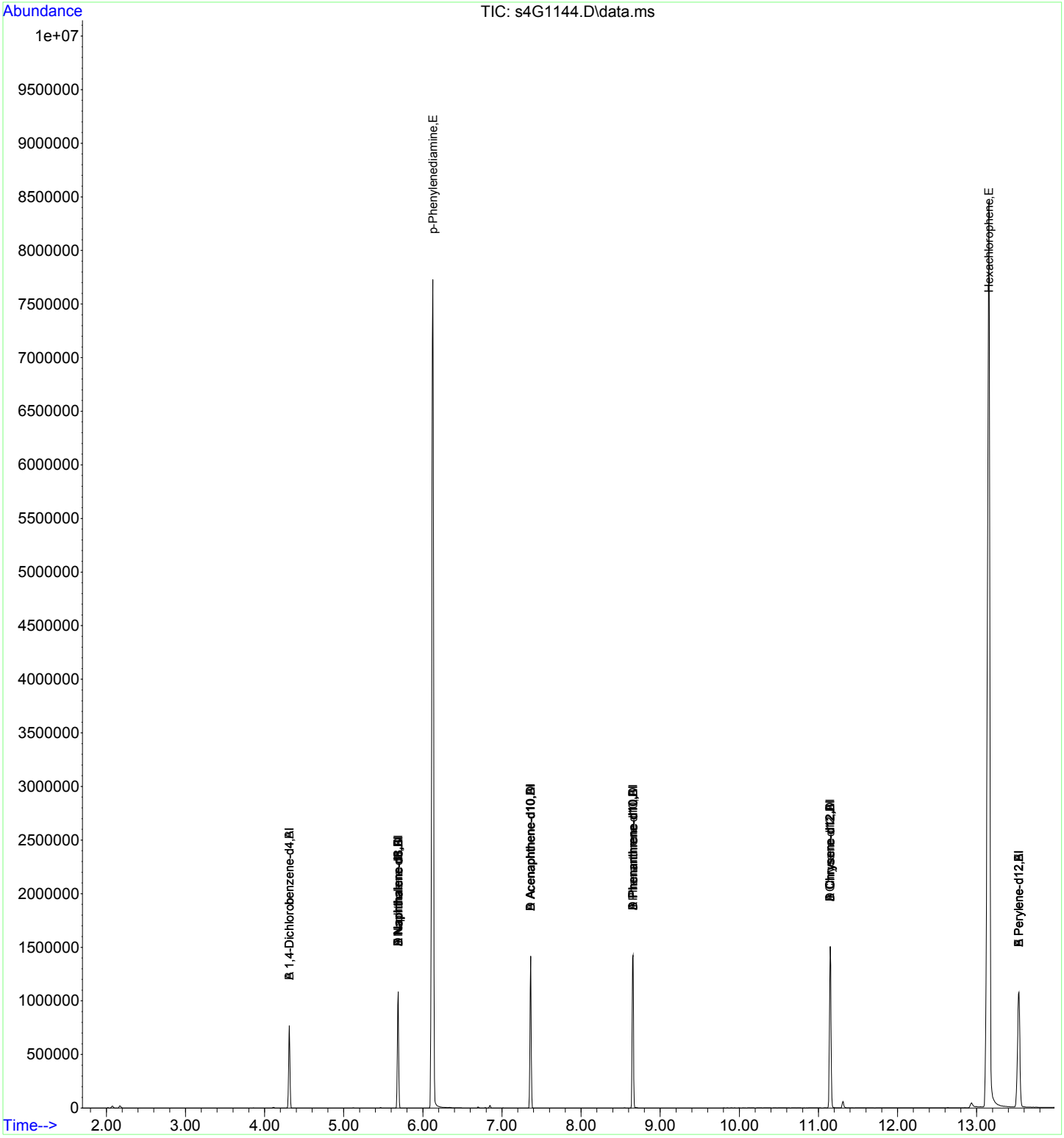
Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	Dev(Min)
Internal Standards								
1) A 1,4-Dichlorobenzene-d4	152	4.313	4.313	1.000	158008	40.00	ng/uL	0.00
22) A Naphthalene-d8	136	5.688	5.688	1.000	612508	40.00	ng/uL	0.00
39) A Acenaphthene-d10	164	7.362	7.362	1.000	324173	40.00	ng/uL	0.00
64) A Phenanthrene-d10	188	8.656	8.656	1.000	663661	40.00	ng/uL	0.00
80) A Chrysene-d12	240	11.149	11.154	1.000	744019	40.00	ng/uL	0.00
88) A Perylene-d12	264	13.534	13.523	1.000	842189	40.00	ng/uL	0.01
96) B 1,4-Dichlorobenzene-d4	152	4.313	4.313	1.000	158008	40.00	ng/uL	0.00
112) B Naphthalene-d8	136	5.688	5.688	1.000	612508	40.00	ng/uL	0.00
120) B Acenaphthene-d10	164	7.362	7.362	1.000	324173	40.00	ng/uL	0.00
129) B Phenanthrene-d10	188	8.656	8.656	1.000	663661	40.00	ng/uL	0.00
142) B Chrysene-d12	240	11.149	11.154	1.000	744019	40.00	ng/uL	0.00
148) B Perylene-d12	264	13.534	13.523	1.000	842189	40.00	ng/uL	0.01
151) J Naphthalene-d8	136	5.688	5.688	1.000	612508	40.00	ng/uL	0.00
153) J Phenanthrene-d10	188	8.656	8.656	1.000	663661	40.00	ng/uL	0.00
156) J Chrysene-d12	240	11.149	11.154	1.000	744019	40.00	ng/uL	0.00
159) D Naphthalene-d8	136	5.688	5.688	1.000	612508	40.00	ng/uL	0.00
161) D Acenaphthene-d10	164	7.362	7.362	1.000	324173	40.00	ng/uL	0.00
164) D Phenanthrene-d10	188	8.656	8.656	1.000	663661	40.00	ng/uL	0.00
171) D Chrysene-d12	240	11.149	11.154	1.000	744019	40.00	ng/uL	0.00
173) E Naphthalene-d8	136	5.688	5.688	1.000	612508	40.00	ng/uL	0.00
175) E Perylene-d12	264	13.534	13.540	1.000	842189	40.00	ng/uL	0.00
System Monitoring Compounds								Dev(Min)
5) 2-Fluorophenol	112	0.000	2.997	0.000	0	0.00	ng/uL	
8) Phenol-d5	99	0.000	3.880	0.000	0	0.00	ng/uL	
23) Nitrobenzene-d5	82	0.000	4.917	0.000	0	0.00	ng/uL	
44) 2-Fluorobiphenyl	172	0.000	6.741	0.000	0	0.00	ng/uL	
63) 2,4,6-Tribromophenol	330	0.000	8.052	0.000	0	0.00	ng/uL	
79) p-Terphenyl-d14	244	0.000	9.993	0.000	0	0.00	ng/uL	
Target Compounds	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	QValue
174) p-Phenylenediamine	108	6.124	6.127	1.077	4247047	609.64	ng/uL	97
176) Hexachlorophene	196	13.154	13.160	0.972	1450280	771.81	ng/uL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(A) = Over the calibration range (d) = deleted

Quantitation Report

Data Path : C:\msdchem\1\data\S071123ICAL\
Data File : s4G1144.D
Acq On : 12 Jul 2023 20:12
Operator : NM1
Sample : |WBN230602-37.1|ICV|1|SVM|1|H-ICV
Misc : |MIX[E]
ALS Vial : 43 Sample Multiplier: 1

Quant Time: Jul 13 10:08:08 2023
Quant Method : C:\msdchem\1\data\S071123ICAL\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:54:56 2023
Response via : Initial Calibration



Continuing Calibration Summary

Client SDG: 631221

Instrument ID: MSD4.I **Injection Date:** 03-AUG-23 09:02

Data File: S080323\s4H0302.D **Init. Cal. Date(s)** 11-JUL-23 17:37 - 12-JUL-23 19:53

Lab Sample ID WBN230731-04.8 **Method:** S080323\MSD4_8270_071123.m

Quant Type ISTD **Method Update:** 13-JUL-23 09:54

	Compound	AVERF / Amount	RF CCV	Nominal CCV	Min RF	RF Q	%D / %Drift	Max	Drift Q	Curve Type
S	2-Fluorophenol	1.2432	1.29382		.01		4.07175	20		Averaged
S	Phenol-d5	1.5378	1.57482		.01		2.40734	20		Averaged
S	Nitrobenzene-d5	0.3353	0.33104		.01		-1.2705	20		Averaged
S	2-Fluorobiphenyl	1.4824	1.5462		.01		4.30383	20		Averaged
S	2,4,6-Tribromophenol	0.3634	0.40857		.01		12.42983	20		Averaged
S	p-Terphenyl-d14	1.0885	1.13949		.01		4.68443	20		Averaged
	Phenol	1.6596	1.64551		.8		-0.849	20		Averaged
	1,4-Dichlorobenzene	1.6137	1.63245		.01		1.16193	20		Averaged
	N-Nitrosodipropylamine	0.9554	0.92961		.5		-2.69939	20		Averaged
	2-Nitrophenol	0.1745	0.17258		.1		-1.10029	20		Averaged
	2,4-Dichlorophenol	0.2903	0.28545		.2		-1.67069	20		Averaged
	Hexachlorobutadiene	0.1896	0.1927		.01		1.63502	20		Averaged
	4-Chloro-3-methylphenol	0.2788	0.27338		.2		-1.94405	20		Averaged
	Hexachlorocyclopentadiene	0.4098	0.4093		.05		-0.12201	20		Averaged
	2,4,6-Trichlorophenol	0.4293	0.43683		.2		1.75402	20		Averaged
	Dimethylphthalate	1.4471	1.52288		.01		5.23668	20		Averaged
	Acenaphthene	1.3243	1.3921		.9		5.11969	20		Averaged
	2,4-Dinitrophenol	40	42.25	40			5.625	20		Linear
	4-Nitrophenol	0.1772	0.1817		.05		2.5395	20		Averaged
	Diphenylamine	0.6223	0.65646		.01		5.48931	20		Averaged
	Pentachlorophenol	40	39.93	40			-0.175	20		Linear
	Fluoranthene	1.1725	1.26914		.6		8.24222	20		Averaged
	Di-n-octylphthalate	1.1563	1.16398		.01		0.66419	20		Averaged
	Benzo(a)pyrene	0.9398	0.96505		.7		2.68674	20		Averaged

Quantitation Report

08/04/2023

Data Path : C:\msdchem\1\data\S080323\
Data File : s4H0302.D
Acq On : 03 Aug 2023 09:02
Operator : NM1
Sample : |WBN230731-04.8|CCV|1|SVM|1|M-4
Misc : |MIX[A]
ALS Vial : 2 Sample Multiplier: 1

08/04/2023

Quant Time: Aug 04 09:33:35 2023
Quant Method : C:\msdchem\1\data\S080323\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:54:56 2023
Response via : Initial Calibration

Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	
Internal Standards								Dev(Min)
1) A 1,4-Dichlorobenzene-d4	152	4.377	4.377	1.000	184815	40.00	ng/uL	0.00
22) A Naphthalene-d8	136	5.752	5.752	1.000	783925	40.00	ng/uL	0.00
39) A Acenaphthene-d10	164	7.426	7.426	1.000	381758	40.00	ng/uL	0.00
64) A Phenanthrene-d10	188	8.720	8.720	1.000	767078	40.00	ng/uL	0.00
80) A Chrysene-d12	240	11.255	11.255	1.000	913172	40.00	ng/uL	0.00
88) A Perylene-d12	264	13.684	13.684	1.000	1035578	40.00	ng/uL	0.00
96) B 1,4-Dichlorobenzene-d4	152	4.377	4.377	1.000	184815	40.00	ng/uL	0.00
112) B Naphthalene-d8	136	5.752	5.752	1.000	783925	40.00	ng/uL	0.00
120) B Acenaphthene-d10	164	7.426	7.426	1.000	381758	40.00	ng/uL	0.00
129) B Phenanthrene-d10	188	8.720	8.720	1.000	767078	40.00	ng/uL	0.00
142) B Chrysene-d12	240	11.255	11.255	1.000	913172	40.00	ng/uL	0.00
148) B Perylene-d12	264	13.684	13.684	1.000	1035578	40.00	ng/uL	0.00
151) J Naphthalene-d8	136	5.752	5.752	1.000	783925	40.00	ng/uL	0.00
153) J Phenanthrene-d10	188	8.720	8.720	1.000	767078	40.00	ng/uL	0.00
156) J Chrysene-d12	240	11.255	11.255	1.000	913172	40.00	ng/uL	0.00
159) D Naphthalene-d8	136	5.752	5.752	1.000	783925	40.00	ng/uL	0.00
161) D Acenaphthene-d10	164	7.426	7.426	1.000	381758	40.00	ng/uL	0.00
164) D Phenanthrene-d10	188	8.720	8.720	1.000	767078	40.00	ng/uL	0.00
171) D Chrysene-d12	240	11.255	11.255	1.000	913172	40.00	ng/uL	0.00
173) E Naphthalene-d8	136	5.752	5.752	1.000	783925	40.00	ng/uL	0.00
175) E Perylene-d12	264	13.684	13.684	1.000	1035578	40.00	ng/uL	0.00
System Monitoring Compounds								Dev(Min)
5) 2-Fluorophenol	112	3.083	3.083	0.704	239118	41.63	ng/uL	0.00
8) Phenol-d5	99	3.971	3.971	0.907	291050	40.96	ng/uL	0.00
23) Nitrobenzene-d5	82	4.987	4.987	0.867	259513	39.49	ng/uL	0.00
44) 2-Fluorobiphenyl	172	6.800	6.800	0.916	590275	41.72	ng/uL	0.00
63) 2,4,6-Tribromophenol	330	8.116	8.116	1.093	155974	44.97	ng/uL	0.00
79) p-Terphenyl-d14	244	10.057	10.057	1.153	874074	41.87	ng/uL	0.00
Target Compounds	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	QValue
2) 2-Ethoxyethanol	59	1.804	1.804	0.412	135091	43.66	ng/uL	99
3) N-Methyl-N-nitrosometh...	74	2.008	2.008	0.459	153964	41.39	ng/uL	98
4) Pyridine	79	2.050	2.050	0.468	259145	40.72	ng/uL	98
6) p-Benzoquinone	54	3.543	3.543	0.809	101678	36.85	ng/uL	96
7) Aniline	93	4.024	4.024	0.919	343077	38.89	ng/uL	98
9) Phenol	94	3.987	3.987	0.911	304115	39.66	ng/uL	99
10) bis(2-Chloroethyl) ether	93	4.078	4.078	0.932	239458	40.10	ng/uL	99
11) 2-Chlorophenol	128	4.158	4.158	0.950	260410	39.91	ng/uL	99
12) n-Decane	43	4.174	4.174	0.954	219651	40.74	ng/uL	100
13) 1,3-Dichlorobenzene	146	4.318	4.318	0.987	293112	40.32	ng/uL	99
14) 1,4-Dichlorobenzene	146	4.399	4.399	1.005	301702	40.46	ng/uL	99
15) 1,2-Dichlorobenzene	146	4.564	4.564	1.043	283899	40.32	ng/uL	99
16) bis(2-Chloro-1-methyle...	45	4.661	4.661	1.065	276526	39.56	ng/uL#	71
17) Benzyl alcohol	108	4.516	4.516	1.032	157470	36.48	ng/uL	92
18) o-Cresol	107	4.639	4.639	1.060	201680	38.70	ng/uL	88
19) m,p-Cresols	108	4.810	4.810	1.099	239481	38.93	ng/uL	99
20) N-Nitrosodipropylamine	70	4.805	4.805	1.098	171806	38.92	ng/uL	98
21) Hexachloroethane	117	4.939	4.939	1.128	105364	39.68	ng/uL	99
24) Nitrobenzene	77	5.008	5.008	0.871	258089	39.35	ng/uL	99
25) Isophorone	82	5.260	5.260	0.914	464483	38.65	ng/uL	99
26) 2-Nitrophenol	139	5.351	5.351	0.930	135288	39.55	ng/uL	99
27) 2,4-Dimethylphenol	122	5.388	5.388	0.937	189531	38.35	ng/uL	99
28) bis(2-Chloroethoxy)met...	93	5.484	5.484	0.954	296705	39.14	ng/uL	97
29) 2,4-Dichlorophenol	162	5.607	5.607	0.975	223768	39.34	ng/uL	99

Quantitation Report

Data Path : C:\msdchem\1\data\S080323\
Data File : s4H0302.D
Acq On : 03 Aug 2023 09:02
Operator : NM1
Sample : |WBN230731-04.8|CCV|1|SVM|1|M-4
Misc : |MIX[A]
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 04 09:33:35 2023
Quant Method : C:\msdchem\1\data\S080323\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:54:56 2023
Response via : Initial Calibration

Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	
30) Benzoic acid	105	5.474	5.474	0.952	174671	44.04	ng/uL	97
31) 1,2,4-Trichlorobenzene	180	5.688	5.688	0.989	246688	39.77	ng/uL	100
32) alpha-Terpineol	59	5.773	5.773	1.004	190944	37.46	ng/uL	96
33) Naphthalene	128	5.773	5.773	1.004	760905	39.95	ng/uL	99
34) 4-Chloroaniline	127	5.827	5.827	1.013	302936	38.20	ng/uL	99
35) Hexachlorobutadiene	225	5.891	5.891	1.024	151066	40.66	ng/uL	100
36) 4-Chloro-3-methylphenol	107	6.313	6.313	1.098	214310	39.23	ng/uL	98
37) 2-Methylnaphthalene	142	6.458	6.458	1.123	501403	40.33	ng/uL	100
38) 1-Methylnaphthalene	142	6.554	6.554	1.139	482704	39.49	ng/uL	99
40) Hexachlorocyclopentadiene	237	6.602	6.602	0.889	156254	39.96	ng/uL	99
41) 2,3-Dichloroaniline	161	6.725	6.725	0.906	272640	40.47	ng/uL	99
42) 2,4,6-Trichlorophenol	196	6.725	6.725	0.906	166763	40.70	ng/uL	100
43) 2,4,5-Trichlorophenol	196	6.768	6.768	0.911	178116	40.46	ng/uL	98
45) 2-Chloronaphthalene	162	6.918	6.918	0.932	491291	41.68	ng/uL	100
46) o-Nitroaniline	65	7.009	7.009	0.944	129889	40.23	ng/uL	98
47) 1,4-Dinitrobenzene	168	7.137	7.137	0.961	80645	40.79	ng/uL	98
48) m-Nitroaniline	138	7.383	7.383	0.994	145921	39.59	ng/uL	98
49) Dimethylphthalate	163	7.164	7.164	0.965	581373	42.09	ng/uL	100
50) m-Dinitrobenzene	168	7.201	7.201	0.970	93172	41.31	ng/uL	93
51) 2,6-Dinitrotoluene	165	7.223	7.223	0.973	131469	40.35	ng/uL	97
52) 2,4-Dinitrotoluene	165	7.581	7.581	1.021	178356	41.05	ng/uL	98
53) Acenaphthylene	152	7.297	7.297	0.983	804492	41.79	ng/uL	100
54) Acenaphthene	153	7.453	7.453	1.004	531444	42.05	ng/uL	99
55) 2,4-Dinitrophenol	184	7.469	7.469	1.006	66645	42.25	ng/uL	97
56) Dibenzofuran	168	7.608	7.608	1.024	727341	41.52	ng/uL	100
57) 2,3,4,6-Tetrachlorophenol	232	7.709	7.709	1.038	160606	42.03	ng/uL	98
58) Diethylphthalate	149	7.784	7.784	1.048	570520	40.96	ng/uL	99
59) 4-Nitrophenol	109	7.544	7.544	1.016	69364	41.01	ng/uL	91
60) Fluorene	166	7.907	7.907	1.065	589715	41.92	ng/uL	100
61) 4-Chlorophenylphenylether	204	7.897	7.897	1.063	288959	41.20	ng/uL	99
62) p-Nitroaniline	138	7.918	7.918	1.066	153630	39.47	ng/uL	99
65) 2-Methyl-4,6-dinitroph...	198	7.939	7.939	0.910	94333	43.78	ng/uL	96
66) Diphenylamine	169	7.998	7.998	0.917	503558	42.20	ng/uL	100
67) 1,2-Diphenylhydrazine	77	8.036	8.036	0.921	526510	40.81	ng/uL	98
68) 4-Bromophenylphenylether	248	8.319	8.319	0.954	196953	41.90	ng/uL	100
69) Hexachlorobenzene	284	8.378	8.378	0.961	254968	41.96	ng/uL	99
70) Pentachlorophenol	266	8.549	8.549	0.980	127807	39.93	ng/uL	99
71) n-Octadecane	57	8.576	8.576	0.983	330032	41.67	ng/uL	99
72) Dinoseb	211	8.683	8.683	0.996	149410	42.95	ng/uL	99
73) Phenanthrene	178	8.736	8.736	1.002	866395	42.42	ng/uL	100
74) Anthracene	178	8.784	8.784	1.007	884787	42.71	ng/uL	100
75) Carbazole	167	8.913	8.913	1.022	807498	42.52	ng/uL	100
76) Di-n-butylphthalate	149	9.169	9.169	1.052	967171	41.88	ng/uL	100
77) Fluoranthene	202	9.747	9.747	1.118	973533	43.30	ng/uL	99
78) Pyrene	202	9.945	9.945	1.140	1011850	42.85	ng/uL	100
81) Butylbenzylphthalate	149	10.523	10.523	0.935	424161	39.84	ng/uL	99
82) bis(2-Ethylhexyl)phtha...	149	11.202	11.202	0.995	660929	41.13	ng/uL	100
83) Benzo(a)anthracene	228	11.239	11.239	0.999	1072253	41.49	ng/uL	99
84) Chrysene	228	11.288	11.288	1.003	969649	41.63	ng/uL	99
85) Methoxychlor	227	11.111	11.111	0.987	684436	42.19	ng/uL	99
86) Methylenebis(2-chloroa...	231	11.186	11.186	0.994	223648	40.44	ng/uL	97
87) Di-n-octylphthalate	149	12.208	12.208	1.085	1062914	40.26	ng/uL	100
89) Benzo(b)fluoranthene	252	12.946	12.946	0.946	1135676	40.89	ng/uL	99
90) Benzo(k)fluoranthene	252	12.994	12.994	0.950	1103792	42.29	ng/uL	99
91) Benzo(a)pyrene	252	13.571	13.571	0.992	999382	41.08	ng/uL	100
92) Indeno(1,2,3-cd)pyrene	276	16.010	16.010	1.170	1200069	41.46	ng/uL	99
93) Dibenzo(a,h)anthracene	278	16.069	16.069	1.174	1189307	41.28	ng/uL	99

Quantitation Report

Data Path : C:\msdchem\1\data\S080323\
Data File : s4H0302.D
Acq On : 03 Aug 2023 09:02
Operator : NM1
Sample : |WBN230731-04.8|CCV|1|SVM|1|M-4
Misc : |MIX[A]
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 04 09:33:35 2023
Quant Method : C:\msdchem\1\data\S080323\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:54:56 2023
Response via : Initial Calibration

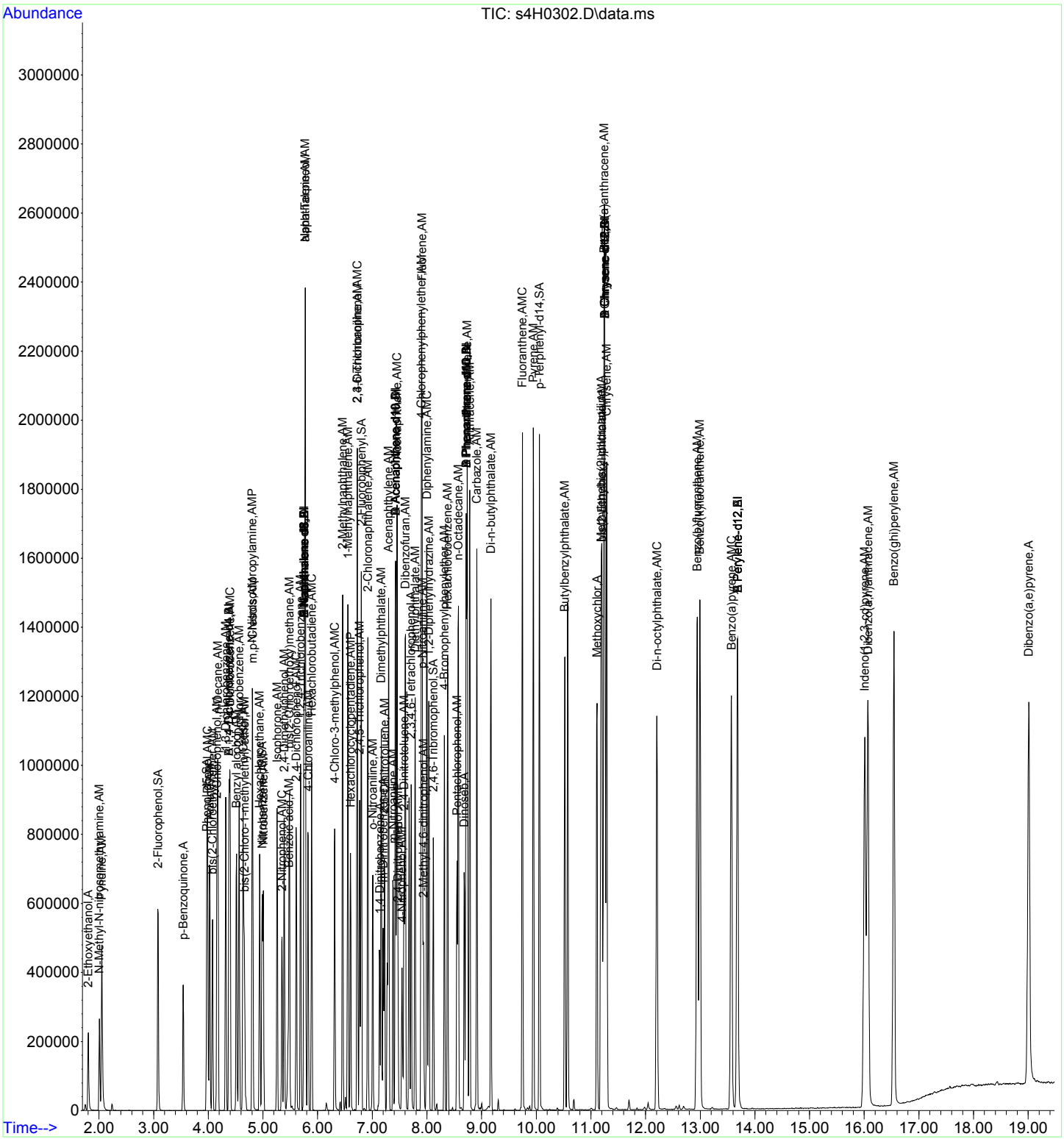
Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	
94) Benzo(ghi)perylene	276	16.545	16.545	1.209	1188036	42.03	ng/uL	99
95) Dibenzo(a,e)pyrene	302	19.011	19.011	1.389	1149990	44.42	ng/uL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(A) = Over the calibration range (d) = deleted

Quantitation Report

Data Path : C:\msdchem\1\data\S080323\
Data File : s4H0302.D
Acq On : 03 Aug 2023 09:02
Operator : NM1
Sample : |WBN230731-04.8|CCV|1|SVM|1|M-4
Misc : |MIX[A]
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 04 09:33:35 2023
Quant Method : C:\msdchem\1\data\S080323\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:54:56 2023
Response via : Initial Calibration



Continuing Calibration Summary

Client SDG: 631221

Instrument ID: MSD4.I **Injection Date:** 03-AUG-23 10:25

Data File: S080323\s4H0306.D **Init. Cal. Date(s)** 11-JUL-23 17:37 - 12-JUL-23 19:53

Lab Sample ID WBN230710-33.1 **Method:** S080323\MSD4_8270_071123.m

Quant Type ISTD **Method Update:** 13-JUL-23 09:54

Compound	AVERF / Amount	RF CCV	Nominal CCV	Min RF	RF Q	%D / %Drift	Max	Drift Q	Curve Type
Hexachlorophene	700	575.37	700			-17.80429	20		Linear

Quantitation Report

08/04/2023

Data Path : C:\msdchem\1\data\S080323\
Data File : s4H0306.D
Acq On : 03 Aug 2023 10:25
Operator : NM1
Sample : |WBN230710-33.1|CCV|1|SVM|1|H-4
Misc : |MIX[E]
ALS Vial : 6 Sample Multiplier: 1

08/04/2023

Quant Time: Aug 04 09:11:58 2023
Quant Method : C:\msdchem\1\data\S080323\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:54:56 2023
Response via : Initial Calibration

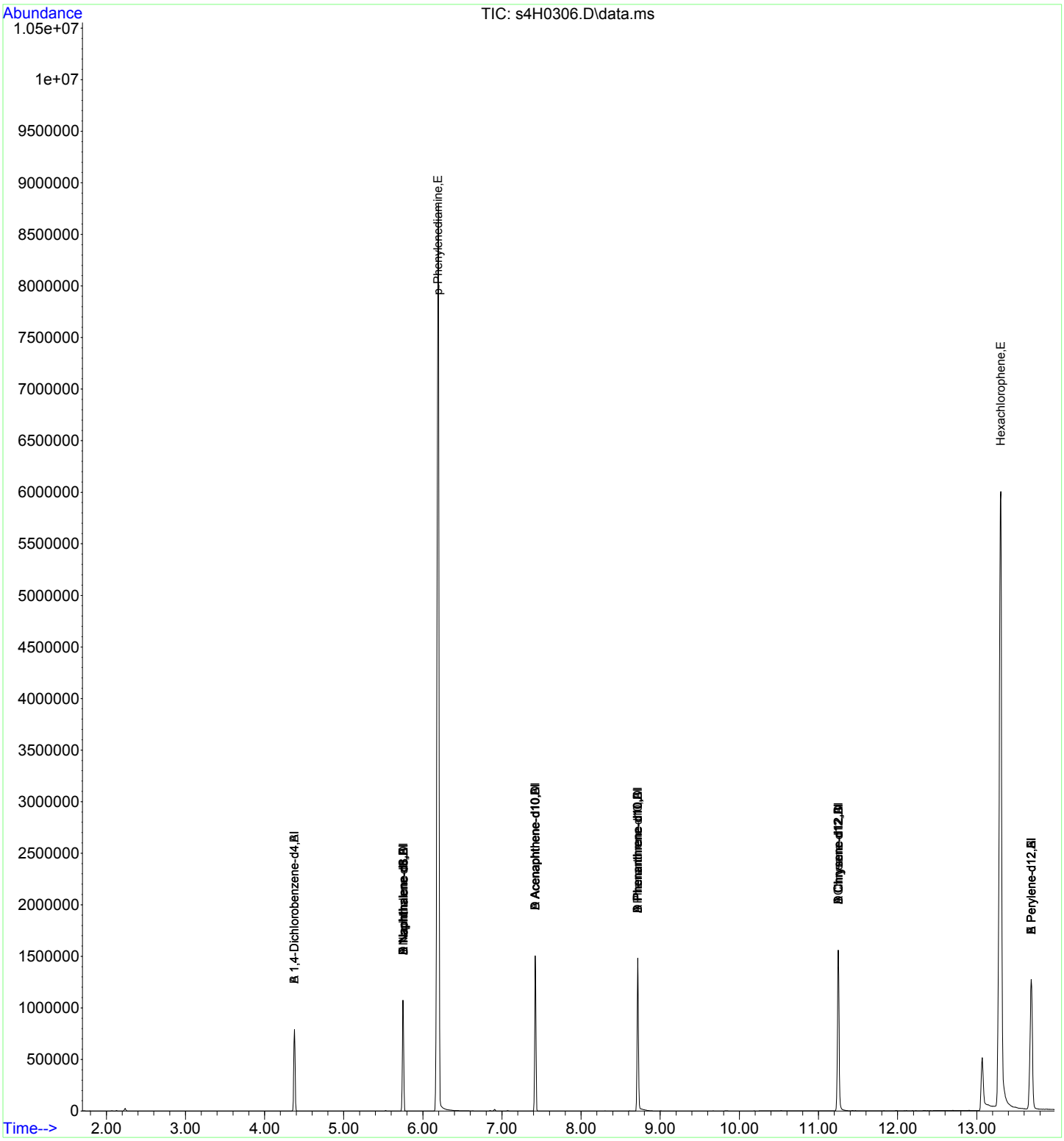
Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	Dev(Min)
Internal Standards								
1) A 1,4-Dichlorobenzene-d4	152	4.377	4.377	1.000	159572	40.00	ng/uL	0.00
22) A Naphthalene-d8	136	5.752	5.752	1.000	632408	40.00	ng/uL	0.00
39) A Acenaphthene-d10	164	7.421	7.426	1.000	348659	40.00	ng/uL	0.00
64) A Phenanthrene-d10	188	8.715	8.720	1.000	704337	40.00	ng/uL	0.00
80) A Chrysene-d12	240	11.250	11.255	1.000	863357	40.00	ng/uL	0.00
88) A Perylene-d12	264	13.689	13.684	1.000	1006342	40.00	ng/uL	0.00
96) B 1,4-Dichlorobenzene-d4	152	4.377	4.377	1.000	159572	40.00	ng/uL	0.00
112) B Naphthalene-d8	136	5.752	5.752	1.000	632408	40.00	ng/uL	0.00
120) B Acenaphthene-d10	164	7.421	7.426	1.000	348659	40.00	ng/uL	0.00
129) B Phenanthrene-d10	188	8.715	8.720	1.000	704337	40.00	ng/uL	0.00
142) B Chrysene-d12	240	11.250	11.255	1.000	863357	40.00	ng/uL	0.00
148) B Perylene-d12	264	13.689	13.684	1.000	1006342	40.00	ng/uL	0.00
151) J Naphthalene-d8	136	5.752	5.752	1.000	632408	40.00	ng/uL	0.00
153) J Phenanthrene-d10	188	8.715	8.720	1.000	704337	40.00	ng/uL	0.00
156) J Chrysene-d12	240	11.250	11.255	1.000	863357	40.00	ng/uL	0.00
159) D Naphthalene-d8	136	5.752	5.752	1.000	632408	40.00	ng/uL	0.00
161) D Acenaphthene-d10	164	7.421	7.426	1.000	348659	40.00	ng/uL	0.00
164) D Phenanthrene-d10	188	8.715	8.720	1.000	704337	40.00	ng/uL	0.00
171) D Chrysene-d12	240	11.250	11.255	1.000	863357	40.00	ng/uL	0.00
173) E Naphthalene-d8	136	5.752	5.752	1.000	632408	40.00	ng/uL	0.00
175) E Perylene-d12	264	13.689	13.684	1.000	1006342	40.00	ng/uL	0.00
System Monitoring Compounds								Dev(Min)
5) 2-Fluorophenol	112	0.000	3.083	0.000	0	0.00	ng/uL	
8) Phenol-d5	99	0.000	3.971	0.000	0	0.00	ng/uL	
23) Nitrobenzene-d5	82	0.000	4.987	0.000	0	0.00	ng/uL	
44) 2-Fluorobiphenyl	172	0.000	6.800	0.000	0	0.00	ng/uL	
63) 2,4,6-Tribromophenol	330	0.000	8.116	0.000	0	0.00	ng/uL	
79) p-Terphenyl-d14	244	0.000	10.057	0.000	0	0.00	ng/uL	
Target Compounds	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	QValue
174) p-Phenylenediamine	108	6.191	6.191	1.076	4933429	685.88	ng/uL	100
176) Hexachlorophene	196	13.304	13.304	0.972	1059424	575.37	ng/uL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(A) = Over the calibration range (d) = deleted

Quantitation Report

Data Path : C:\msdchem\1\data\S080323\
Data File : s4H0306.D
Acq On : 03 Aug 2023 10:25
Operator : NM1
Sample : |WBN230710-33.1|CCV|1|SVM|1|H-4
Misc : |MIX[E]
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 04 09:11:58 2023
Quant Method : C:\msdchem\1\data\S080323\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:54:56 2023
Response via : Initial Calibration



Quality Control Data

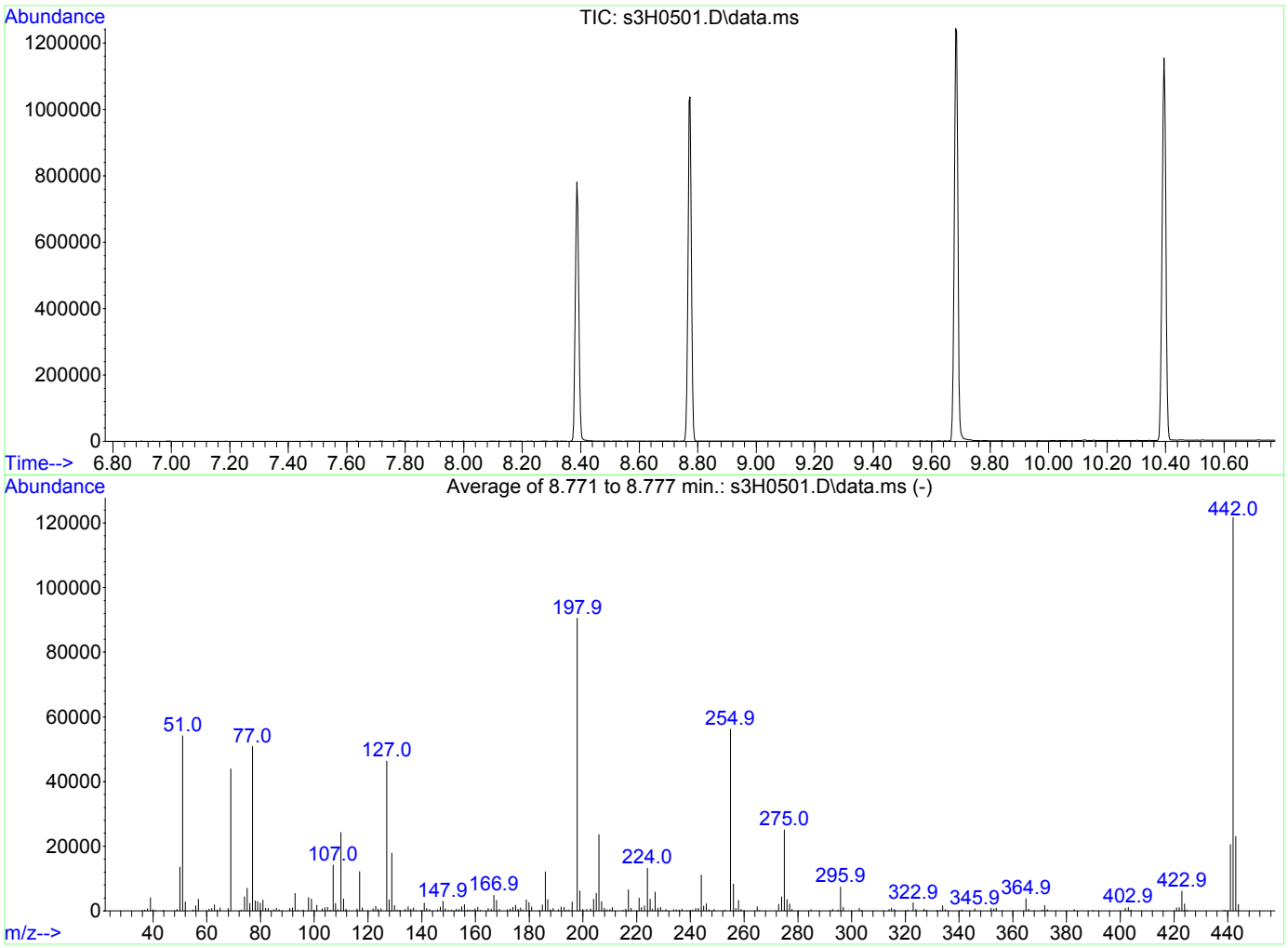
DFTPP Tune Report

08/09/2023

Data Path : C:\msdchem\1\data\S080523a\
Data File : s3H0501.D
Acq On : 05 Aug 2023 10:40
Operator : LOF
Sample : |WBN230710-99|DFTPP|1|SVM|1|DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\data\S080523a\BNABrk_Down8270E.m
Title : dftpp / endrin / ddt
Last Update : Tue Jun 08 08:47:00 2010



AutoFind: Scans 2486, 2487, 2488; Background Corrected with Scan 2478

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.6	717	PASS
69	198	0.00	100	48.6	43957	PASS
70	69	0.00	2	0.0	0	PASS
197	198	0.00	2	0.0	0	PASS
198	442	0.01	100	74.4	90499	PASS
199	198	5	9	6.9	6215	PASS
365	198	1	100	4.2	3772	PASS
441	443	0.01	150	89.1	20552	PASS
442	442	0.01	100	100.0	121656	PASS
443	442	15	24	19.0	23059	PASS

This report evaluates the Rel Abn% as passing only if it is greater than the Lower Limit and lower than the Upper Limit.

Quantitation Report

08/09/2023

Data Path : C:\msdchem\1\data\S080523a\
Data File : s3H0501.D
Acq On : 05 Aug 2023 10:40
Operator : LOF
Sample : |WBN230710-99|DFTPP|1|SVM|1|DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 09 09:46:48 2023
Quant Method : C:\msdchem\1\data\S080523a\BNABrk_Down8270E.m
Quant Title : dftpp / endrin / ddt
QLast Update : Tue Jun 08 08:47:00 2010
Response via : Initial Calibration

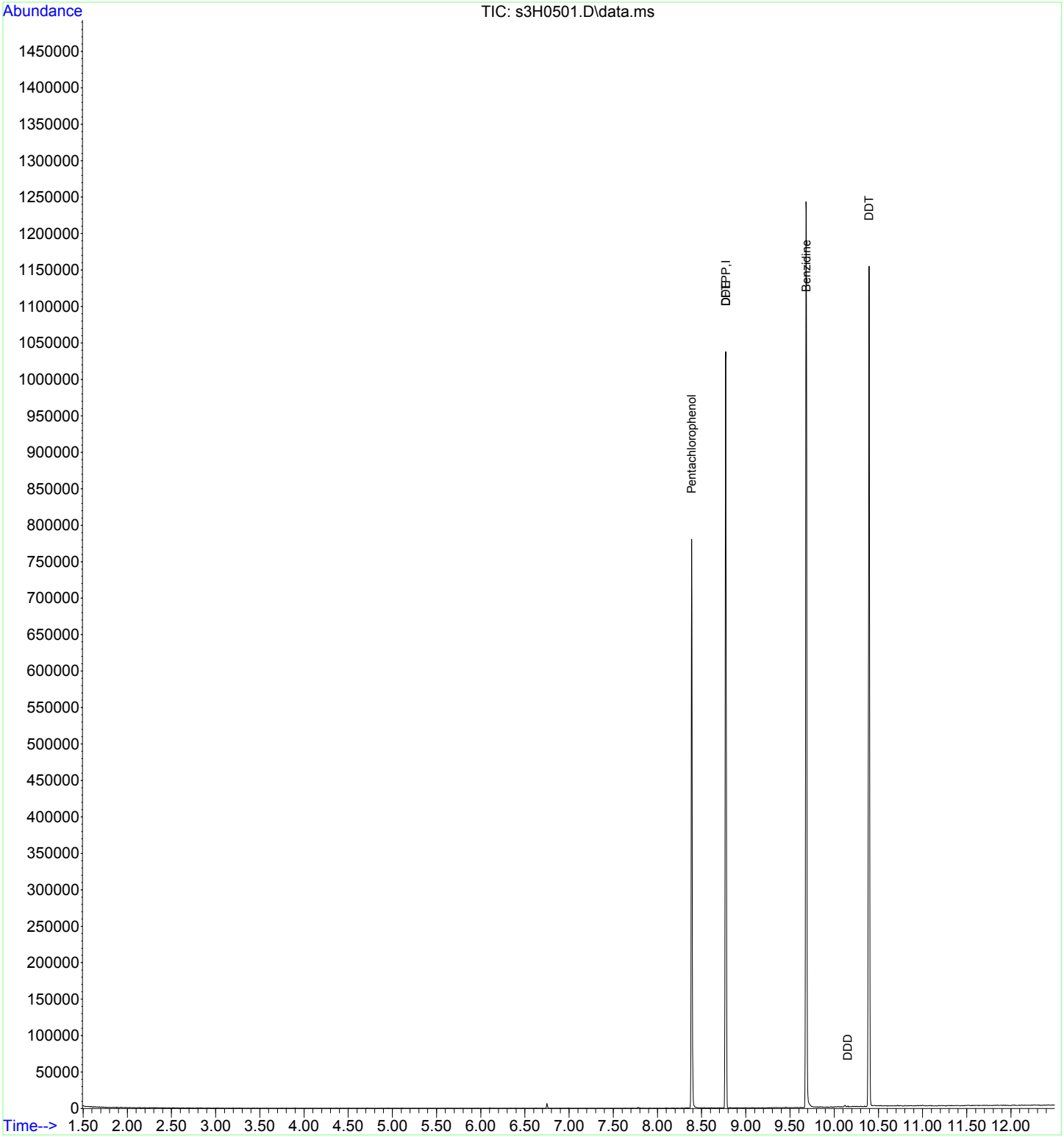
Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	
Internal Standards								Dev(Min)
1) DFTPP	TIC	8.774	8.798	1.000	845407	5.00	ug/l	#-0.02
Target Compounds	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	QValue
2) DFTPP	TIC	8.774	8.798	1.000	845407	No Calib	#	
3) Pentachlorophenol	266	8.387	8.393	0.956	75810	4.46	ug/l	99
4) Benzidine	184	9.685	9.721	1.104	401485	13.89	ug/l	100
5) DDE	246	8.774	8.798	1.000	1945	4.60	ug/l #	90
6) DDD	235	10.154	10.168	1.157	322	0.20	ug/l	65
7) DDT	235	10.394	10.429	1.185	178367	4.20	ug/l	100

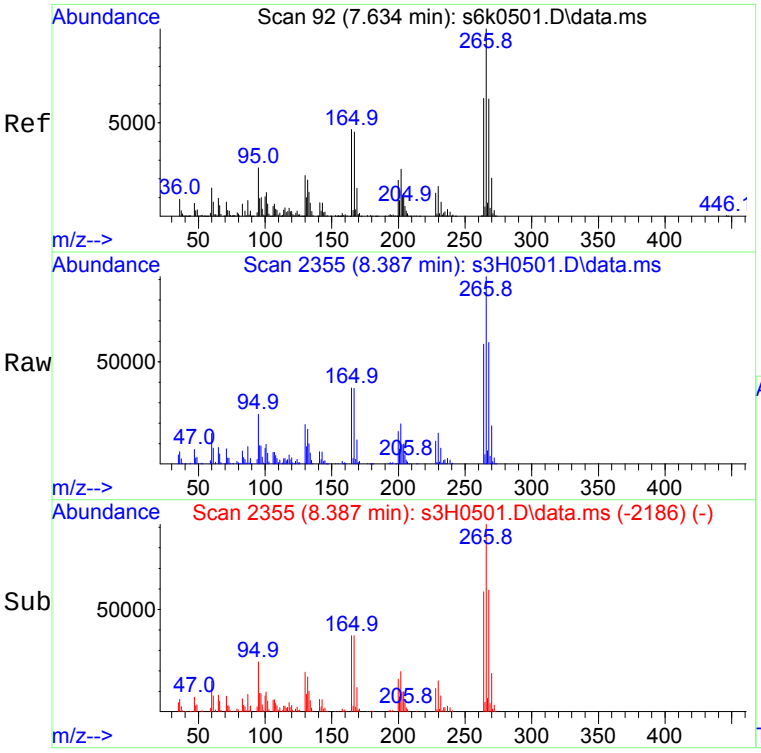
(#) = qualifier out of range (m) = manual integration (+) = signals summed
(A) = Over the calibration range (d) = deleted

Quantitation Report

Data Path : C:\msdchem\1\data\S080523a\
Data File : s3H0501.D
Acq On : 05 Aug 2023 10:40
Operator : LOF
Sample : |WBN230710-99|DFTPP|1|SVM|1|DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 09 09:46:48 2023
Quant Method : C:\msdchem\1\data\S080523a\BNABrk_Down8270E.m
Quant Title : dftpp / endrin / ddt
QLast Update : Tue Jun 08 08:47:00 2010
Response via : Initial Calibration

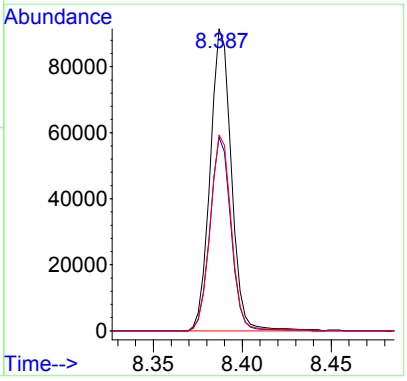


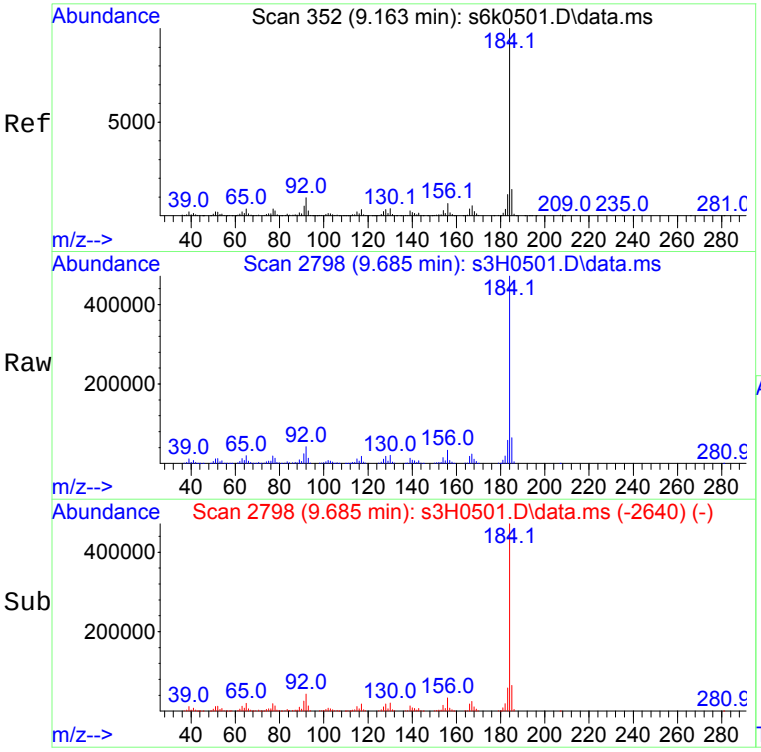


#3
Pentachlorophenol
Concen: 4.46 ug/l
RT: 8.387 min Scan# 2355
Delta R.T. -0.006 min
Lab File: s3H0501.D
Acq: 05 Aug 2023 10:40

Tgt Ion:266 Resp: 75810

Ion	Ratio	Lower	Upper
266	100		
264	63.0	0.0	164.1
268	64.4	0.0	164.9

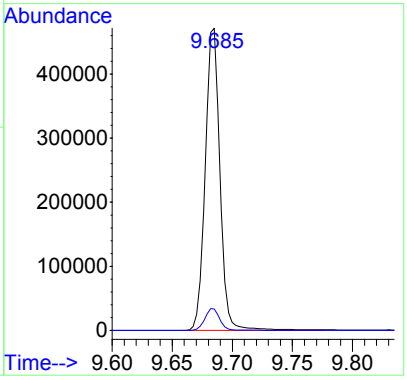


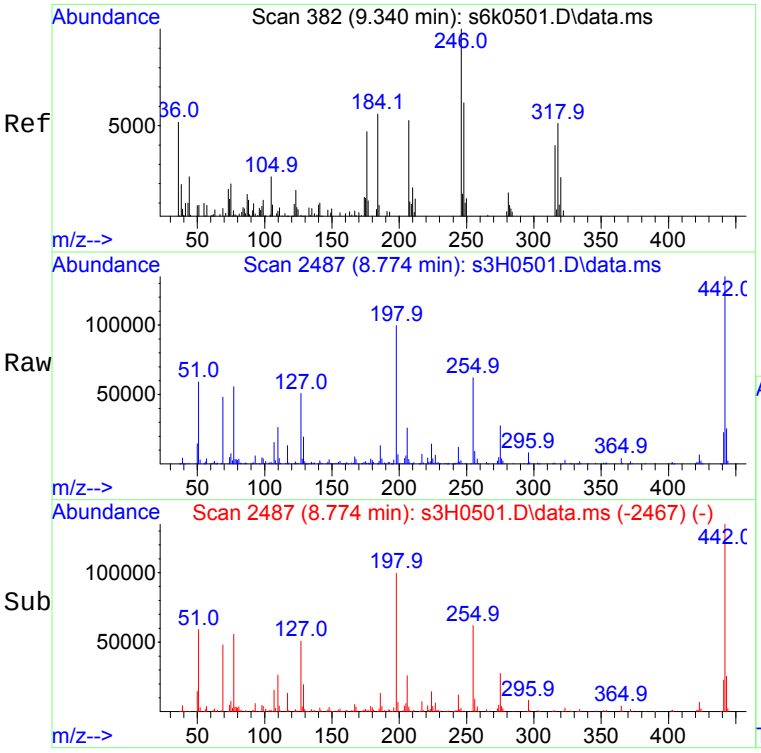


#4
Benzidine
Concen: 13.89 ug/l
RT: 9.685 min Scan# 2798
Delta R.T. -0.036 min
Lab File: s3H0501.D
Acq: 05 Aug 2023 10:40

Tgt Ion:184 Resp: 401485

Ion	Ratio	Lower	Upper
184	100		
156	7.2	0.0	107.2

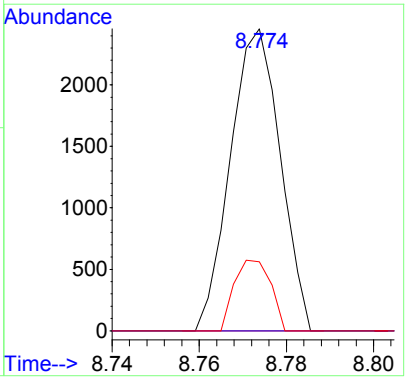


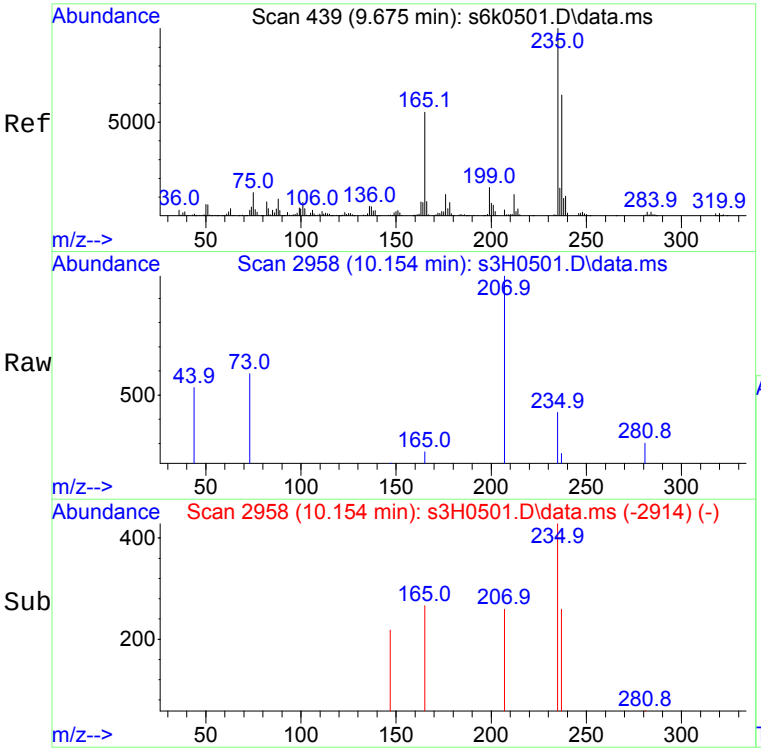


#5
DDE
Concen: 4.60 ug/l
RT: 8.774 min Scan# 2487
Delta R.T. -0.024 min
Lab File: s3H0501.D
Acq: 05 Aug 2023 10:40

Tgt Ion:246 Resp: 1945

Ion	Ratio	Lower	Upper
246	100		
318	0.0	0.0	100.0
316	17.1	0.0	122.1

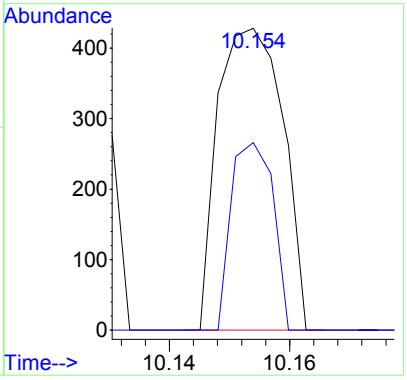


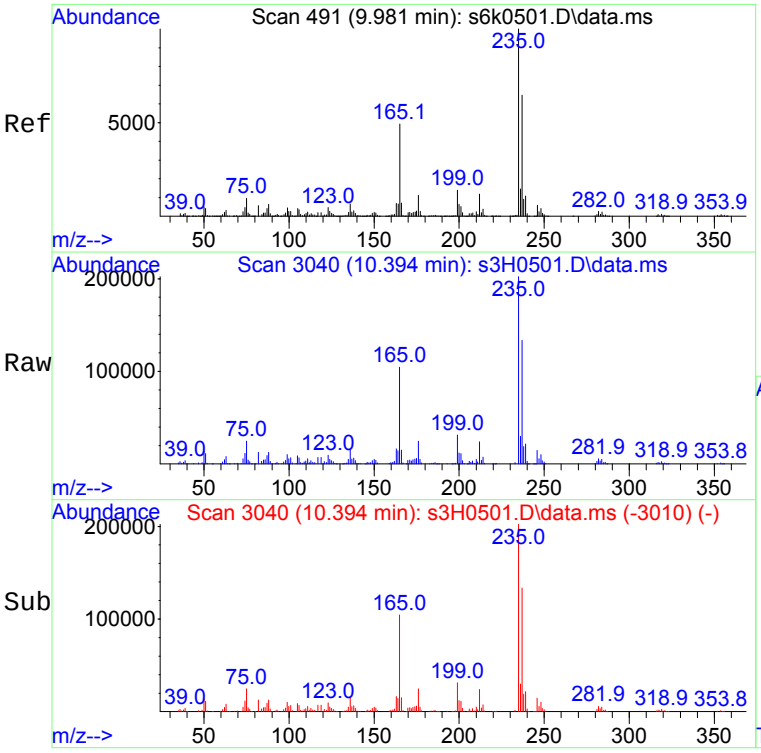


#6
DDD
Concen: 0.20 ug/l
RT: 10.154 min Scan# 2958
Delta R.T. -0.014 min
Lab File: s3H0501.D
Acq: 05 Aug 2023 10:40

Tgt Ion:235 Resp: 322

Ion	Ratio	Lower	Upper
235	100		
165	40.1	0.0	168.0

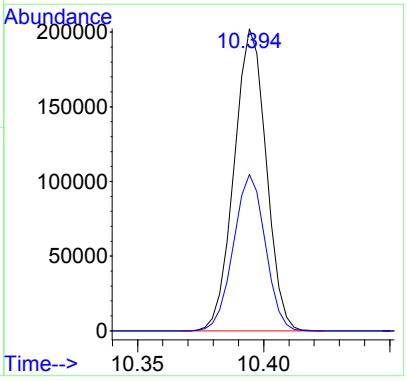




#7
DDT
Concen: 4.20 ug/l
RT: 10.394 min Scan# 3040
Delta R.T. -0.035 min
Lab File: s3H0501.D
Acq: 05 Aug 2023 10:40

Tgt Ion:235 Resp: 178367

Ion	Ratio	Lower	Upper
235	100		
165	51.4	0.0	151.2



8270 Breakdown Report

LF 08/07/2023

Data File : C:\msdchem\1\data\S080523a\s3H0501.D Vial: 1
Acq On : 05 Aug 2023 10:40 Operator: LOF
Sample : |WBN230710-99|DFTPP|1|SVM|1|DFTPP Inst : MSD3
Misc : Multiplr: 1.00
IntFile : rteint.p

JCB 08/07/2023

Compounds	Area/%Breakdown	8270C	8270D
DDE	13274		
DDD	322		
DDT	178367		
Breakdown	7.08%	Pass(<20)	Pass(<20)

Compounds	Tailing Factor	8270C	8270D
Benzidine	0.78	Pass(<3)	Pass(<2)
Pentachlorophenol	1.18	Pass(<5)	Pass(<2)

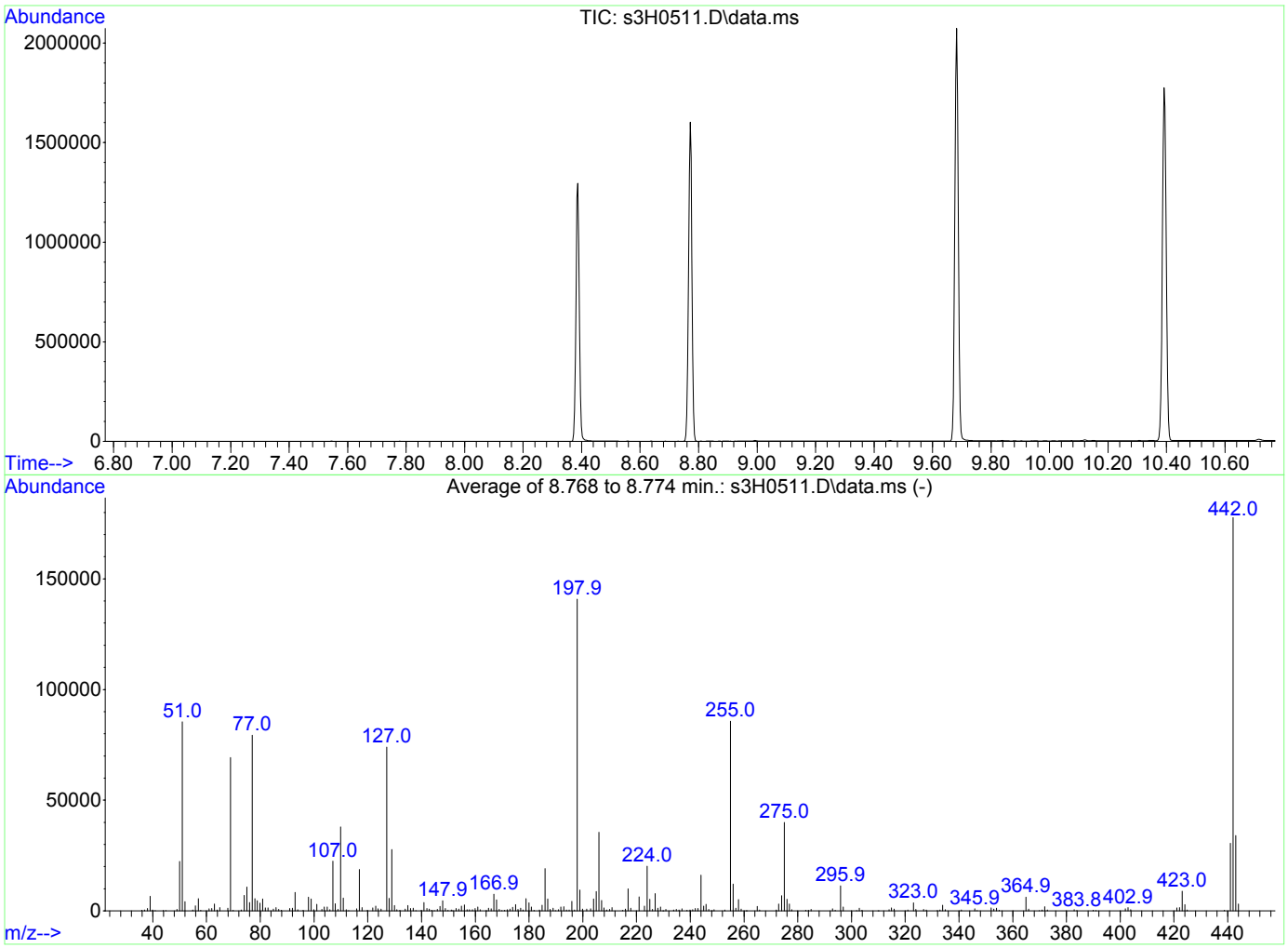
DFTPP Tune Report

08/16/2023

Data Path : C:\msdchem\1\data\S080523a\
Data File : s3H0511.D
Acq On : 06 Aug 2023 11:51
Operator : LOF
Sample : |WBN230710-99|DFTPP|1|SVM|1|DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\data\S080523a\BNABrk_Down8270E.m
Title : dftpp / endrin / ddt
Last Update : Tue Jun 08 08:47:00 2010



AutoFind: Scans 2485, 2486, 2487; Background Corrected with Scan 2477

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.7	1180	PASS
69	198	0.00	100	49.3	69341	PASS
70	69	0.00	2	0.4	273	PASS
197	198	0.00	2	0.3	411	PASS
198	442	0.01	100	79.2	140776	PASS
199	198	5	9	6.7	9483	PASS
365	198	1	100	4.4	6201	PASS
441	443	0.01	150	89.8	30515	PASS
442	442	0.01	100	100.0	177664	PASS
443	442	15	24	19.1	33976	PASS

This report evaluates the Rel Abn% as passing only if it is greater than the Lower Limit and lower than the Upper Limit.

Quantitation Report

08/16/2023

Data Path : C:\msdchem\1\data\S080523a\
Data File : s3H0511.D
Acq On : 06 Aug 2023 11:51
Operator : LOF
Sample : |WBN230710-99|DFTPP|1|SVM|1|DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 12:04:59 2023
Quant Method : C:\msdchem\1\data\S080523a\BNABrk_Down8270E.m
Quant Title : dftpp / endrin / ddt
QLast Update : Tue Jun 08 08:47:00 2010
Response via : Initial Calibration

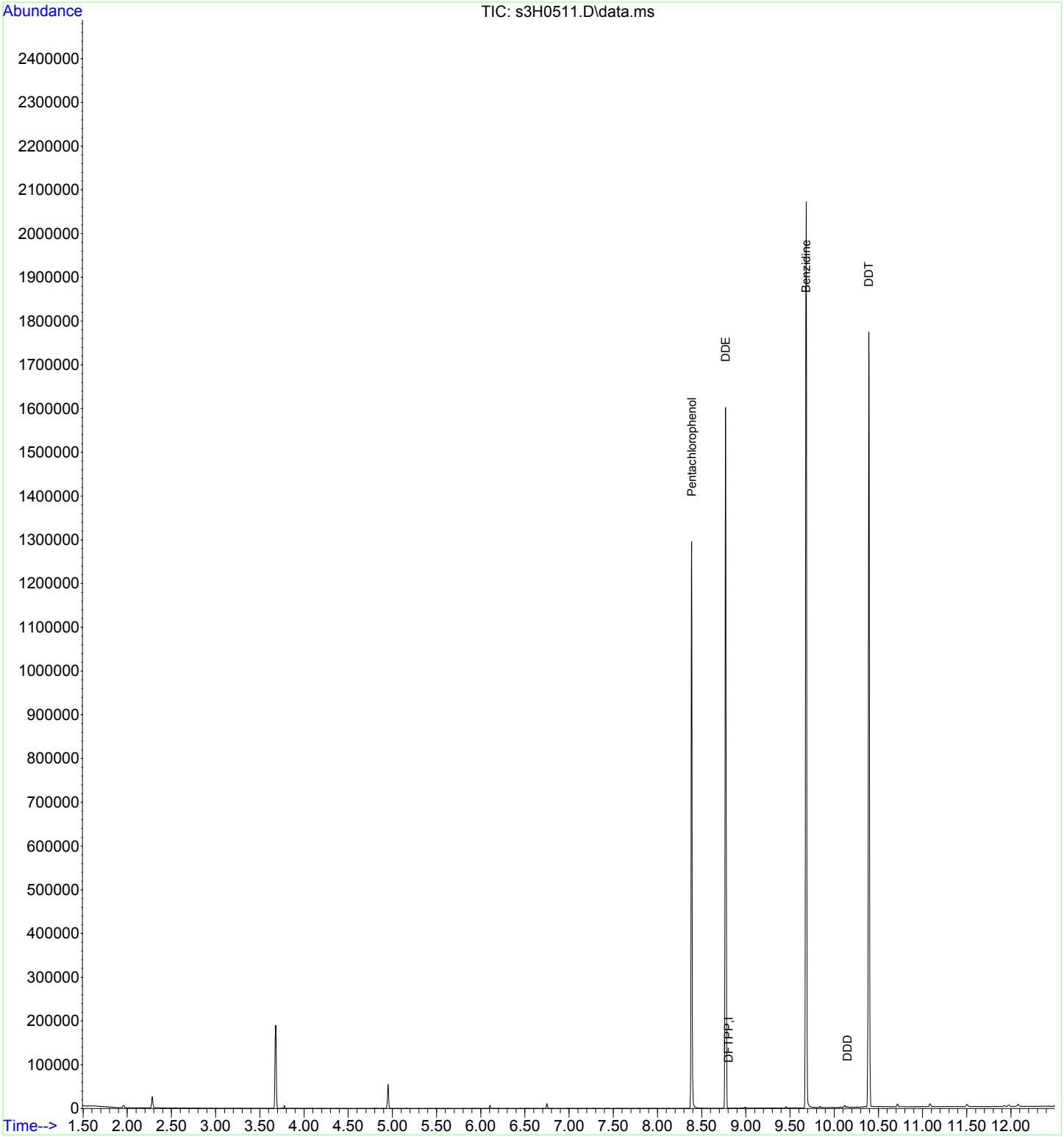
Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	
Internal Standards								Dev(Min)
1) DFTPP	TIC	8.806	8.798	1.000	135	5.00	ug/l	# 0.00
Target Compounds	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	QValue
2) DFTPP	TIC	8.806	8.798	1.000	135	No Calib	#	
3) Pentachlorophenol	266	8.387	8.393	0.952	124395	45793.94	ug/l	99 A
4) Benzidine	184	9.682	9.721	1.099	639472	138570.05	ug/l	100 A
5) DDE	246	8.771	8.798	0.996	2632	38943.60	ug/l #	95 A
6) DDD	235	10.151	10.168	1.153	511	2035.46	ug/l	61 A
7) DDT	235	10.392	10.429	1.180	283611	41818.63	ug/l	100 A

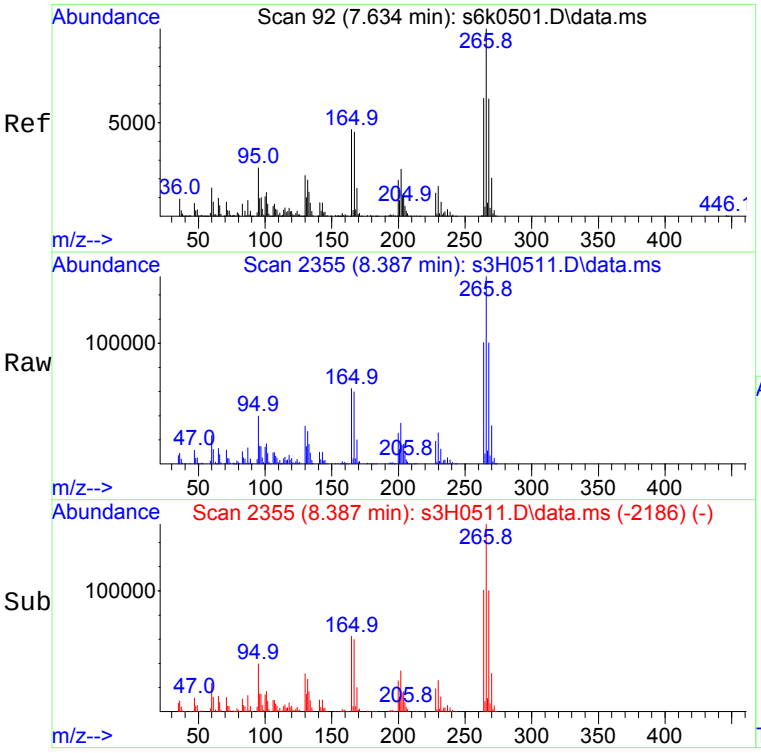
(#) = qualifier out of range (m) = manual integration (+) = signals summed
(A) = Over the calibration range (d) = deleted

Quantitation Report

Data Path : C:\msdchem\1\data\S080523a\
Data File : s3H0511.D
Acq On : 06 Aug 2023 11:51
Operator : LOF
Sample : |WBN230710-99|DFTPP|1|SVM|1|DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 12:04:59 2023
Quant Method : C:\msdchem\1\data\S080523a\BNABrk_Down8270E.m
Quant Title : dftpp / endrin / ddt
QLast Update : Tue Jun 08 08:47:00 2010
Response via : Initial Calibration

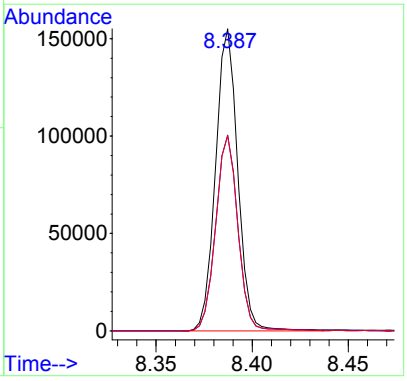


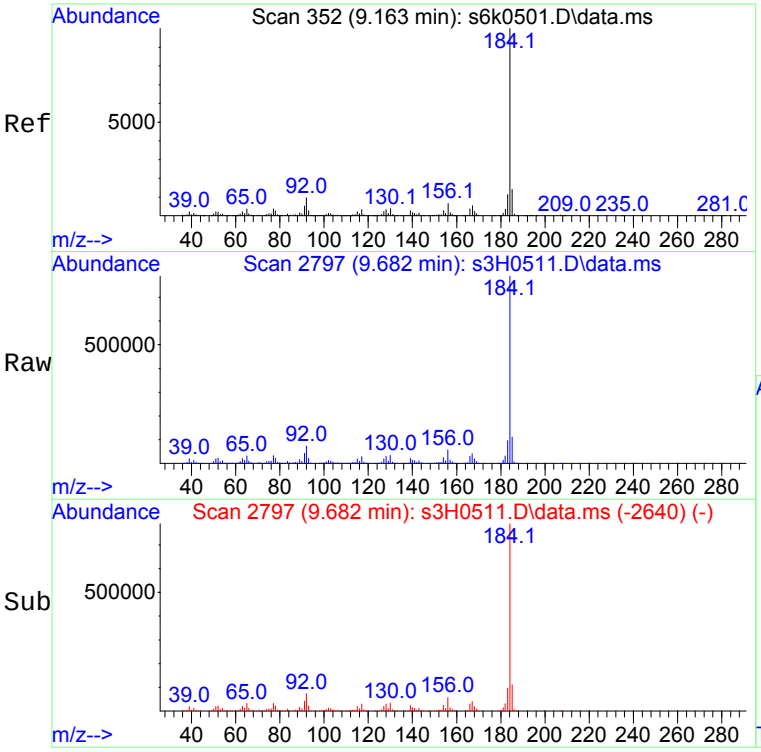


#3
Pentachlorophenol
Concen: 45793.94 ug/l
RT: 8.387 min Scan# 2355
Delta R.T. -0.006 min
Lab File: s3H0511.D
Acq: 06 Aug 2023 11:51

Tgt Ion:266 Resp: 124395

Ion	Ratio	Lower	Upper
266	100		
264	65.0	0.0	164.1
268	64.4	0.0	164.9

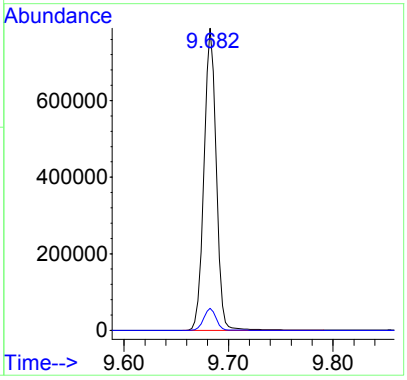


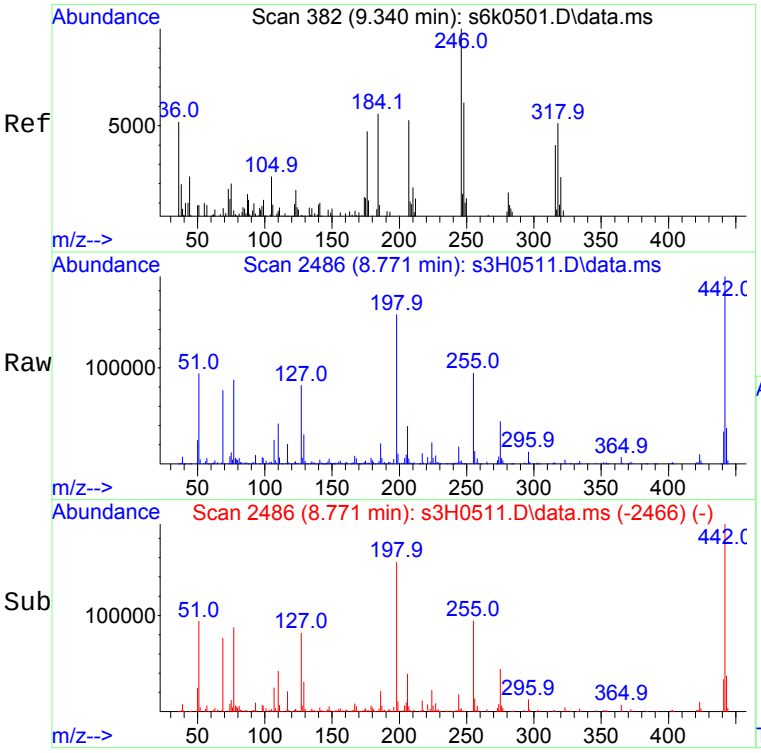


#4
Benzidine
Concen: 138570.05 ug/l
RT: 9.682 min Scan# 2797
Delta R.T. -0.039 min
Lab File: s3H0511.D
Acq: 06 Aug 2023 11:51

Tgt Ion:184 Resp: 639472

Ion	Ratio	Lower	Upper
184	100		
156	7.3	0.0	107.2

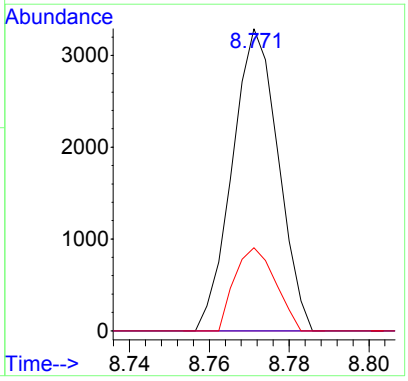


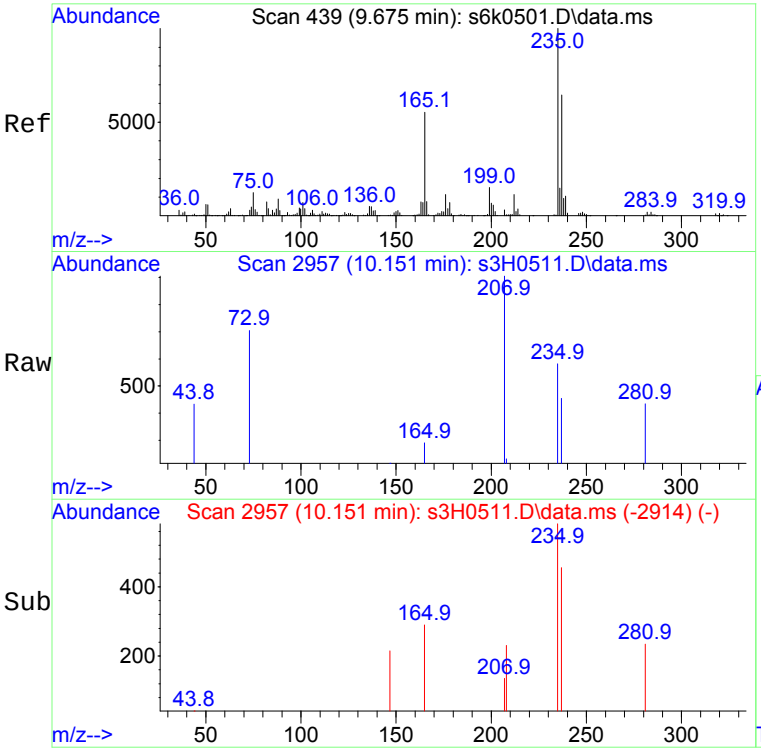


#5
DDE
Concen: 38943.60 ug/l
RT: 8.771 min Scan# 2486
Delta R.T. -0.027 min
Lab File: s3H0511.D
Acq: 06 Aug 2023 11:51

Tgt Ion:246 Resp: 2632

Ion	Ratio	Lower	Upper
246	100		
318	0.0	0.0	100.0
316	24.4	0.0	122.1

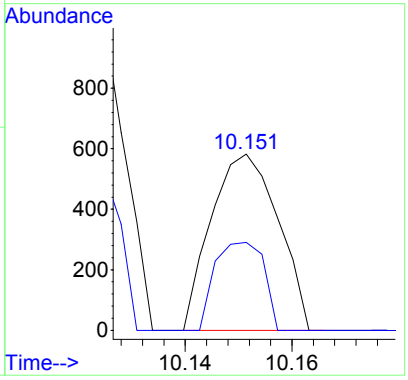


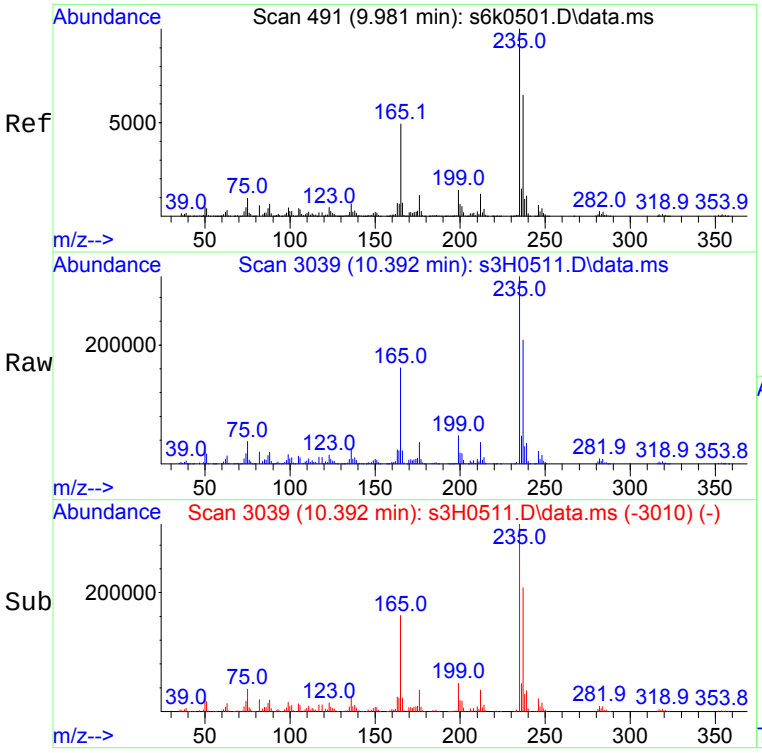


#6
DDD
Concen: 2035.46 ug/l
RT: 10.151 min Scan# 2957
Delta R.T. -0.017 min
Lab File: s3H0511.D
Acq: 06 Aug 2023 11:51

Tgt Ion:235 Resp: 511

Ion	Ratio	Lower	Upper
235	100		
165	36.2	0.0	168.0

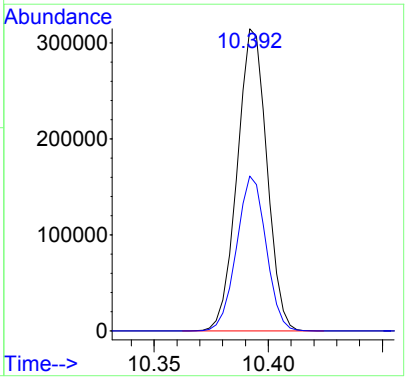




#7
DDT
Concen: 41818.63 ug/l
RT: 10.392 min Scan# 3039
Delta R.T. -0.038 min
Lab File: s3H0511.D
Acq: 06 Aug 2023 11:51

Tgt Ion:235 Resp: 283611

Ion	Ratio	Lower	Upper
235	100		
165	51.0	0.0	151.2



8270 Breakdown Report

08/16/2023

Data File : C:\msdchem\1\data\S080523a\s3H0511.D Vial: 1
Acq On : 06 Aug 2023 11:51 Operator: LOF
Sample : |WBN230710-99|DFTPP|1|SVM|1|DFTPP Inst : MSD3
Misc : Multiplr: 1.00
IntFile : rteint.p

Compounds	Area/%Breakdown	8270C	8270D
DDE	2632		
DDD	511		
DDT	283611		
Breakdown	1.10%	Pass(<20)	Pass(<20)

Compounds	Tailing Factor	8270C	8270D
Benzidine	0.98	Pass(<3)	Pass(<2)
Pentachlorophenol	0.95	Pass(<5)	Pass(<2)

DFTPP Tune Report

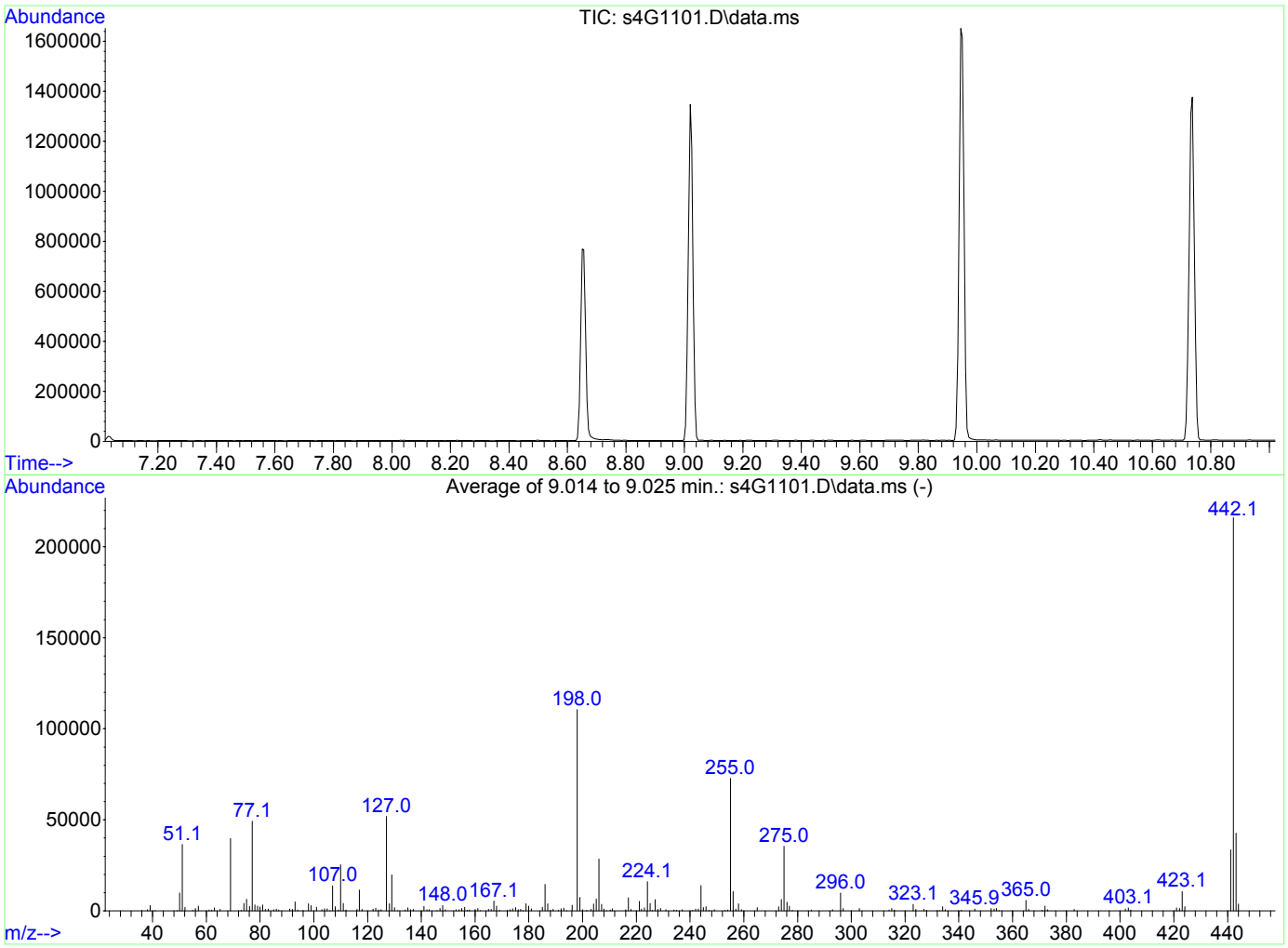
07/13/2023

Data Path : C:\msdchem\1\data\S071123ICAL\
Data File : s4G1101.D
Acq On : 11 Jul 2023 17:21
Operator : NM1
Sample : |WBN230607-99|DFTPP|1|SVM|1|DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

07/13/2023

Integration File: rteint.p

Method : C:\msdchem\1\data\S071123ICAL\BNABrk_Down8270E.m
Title : dftpp / endrin / ddt
Last Update : Sat Mar 23 09:33:11 2019



AutoFind: Scans 1369, 1370, 1371; Background Corrected with Scan 1363

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	36.0	39749	PASS
70	69	0.00	2	0.0	0	PASS
197	198	0.00	2	0.0	0	PASS
198	442	0.01	100	51.2	110493	PASS
199	198	5	9	6.7	7377	PASS
365	198	1	100	5.2	5714	PASS
441	443	0.01	150	78.6	33512	PASS
442	442	0.01	100	100.0	216000	PASS
443	442	15	24	19.7	42629	PASS

This report evaluates the Rel Abn% as passing only if it is greater than the Lower Limit and lower than the Upper Limit.

Quantitation Report

07/13/2023

Data Path : C:\msdchem\1\data\S071123ICAL\
Data File : s4G1101.D
Acq On : 11 Jul 2023 17:21
Operator : NM1
Sample : |WBN230607-99|DFTPP|1|SVM|1|DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

07/13/2023

Quant Time: Jul 13 10:00:20 2023
Quant Method : C:\msdchem\1\data\S071123ICAL\BNABrk_Down8270E.m
Quant Title : dftpp / endrin / ddt
QLast Update : Sat Mar 23 09:33:11 2019
Response via : Initial Calibration

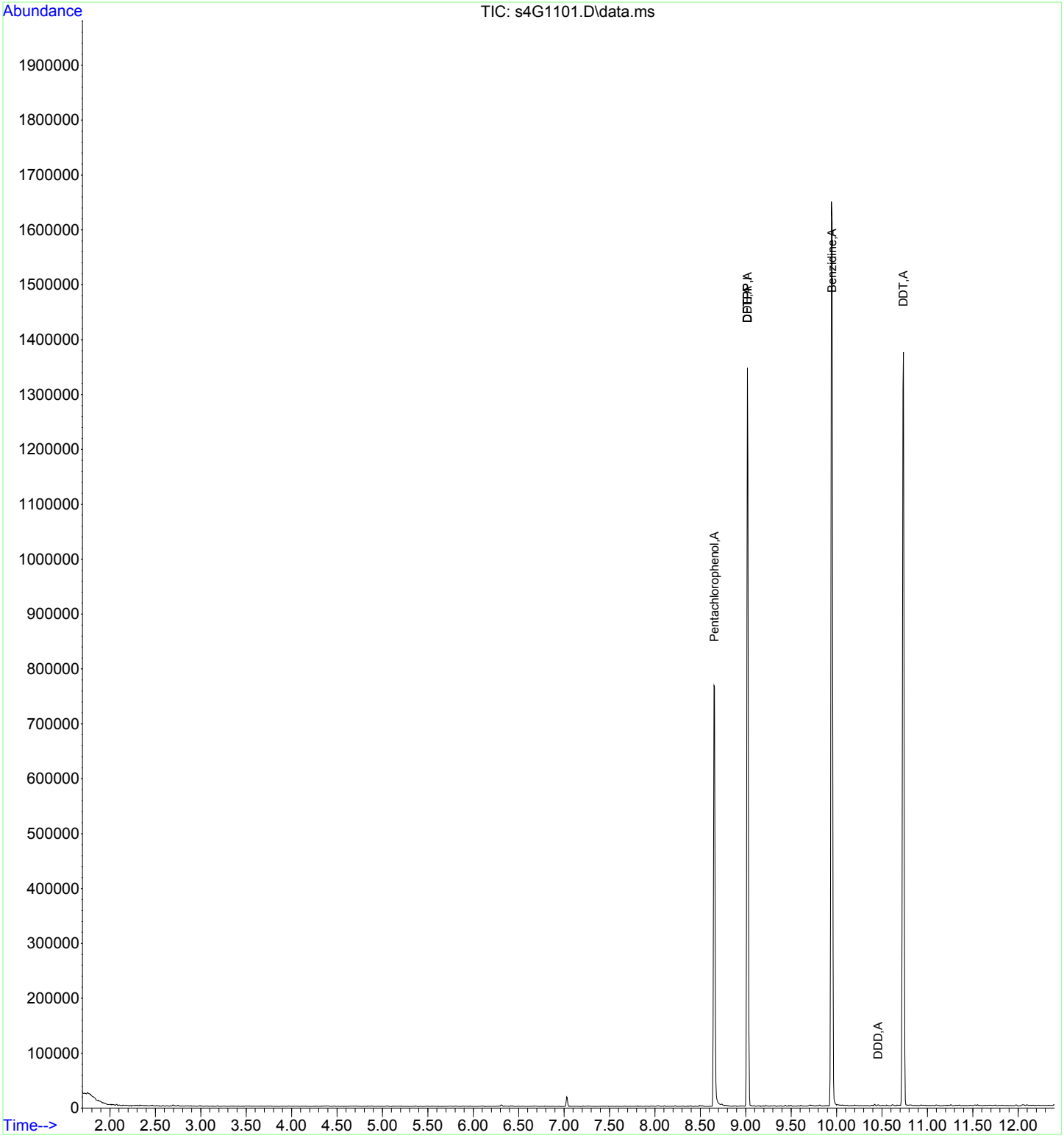
Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	
Internal Standards								Dev(Min)
1) DFTPP	TIC	9.020	9.020	1.000	1474692	5.00	ug/ml #	0.00
Target Compounds	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	QValue
2) DFTPP	TIC	9.020	9.020	1.000	1474692	5.00	ug/ml#	1
3) Pentachlorophenol	266	8.656	8.647	0.960	134385	5.41	ug/ml	98
4) Benzidine	184	9.950	9.972	1.103	799096	8.04	ug/ml	100
5) DDE	246	9.020	9.020	1.000	2879	36.02	ug/ml#	91
6) DDD	235	10.459	10.462	1.160	501	2.17	ug/ml#	25
7) DDT	235	10.737	10.784	1.190	360184	7.96	ug/ml	98

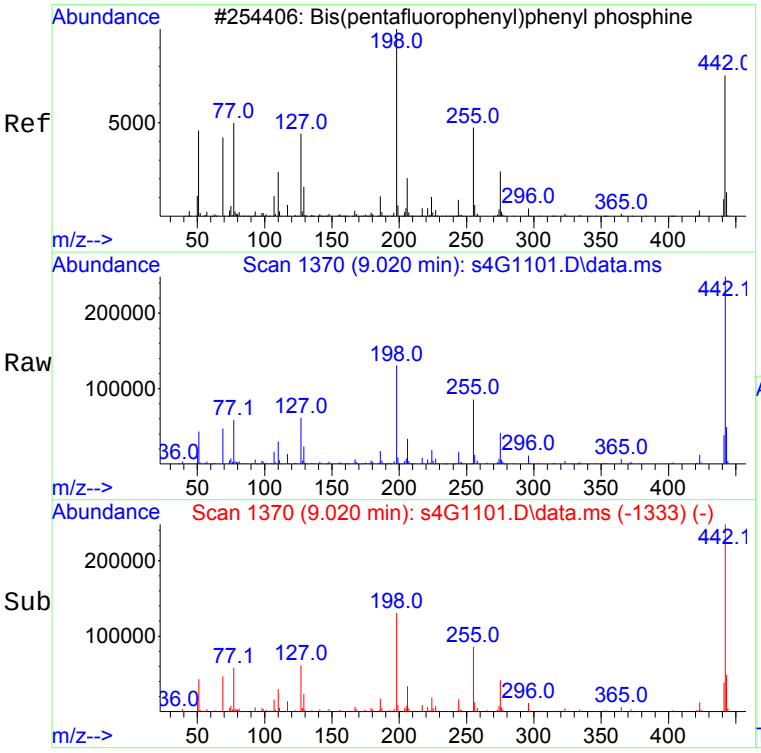
(#) = qualifier out of range (m) = manual integration (+) = signals summed
(A) = Over the calibration range (d) = deleted

Quantitation Report

Data Path : C:\msdchem\1\data\S071123ICAL\
Data File : s4G1101.D
Acq On : 11 Jul 2023 17:21
Operator : NM1
Sample : |WBN230607-99|DFTPP|1|SVM|1|DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 13 10:00:20 2023
Quant Method : C:\msdchem\1\data\S071123ICAL\BNABrk_Down8270E.m
Quant Title : dftpp / endrin / ddt
QLast Update : Sat Mar 23 09:33:11 2019
Response via : Initial Calibration

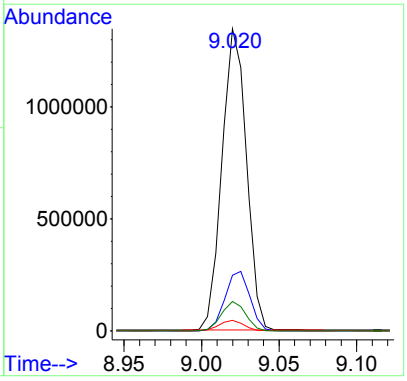


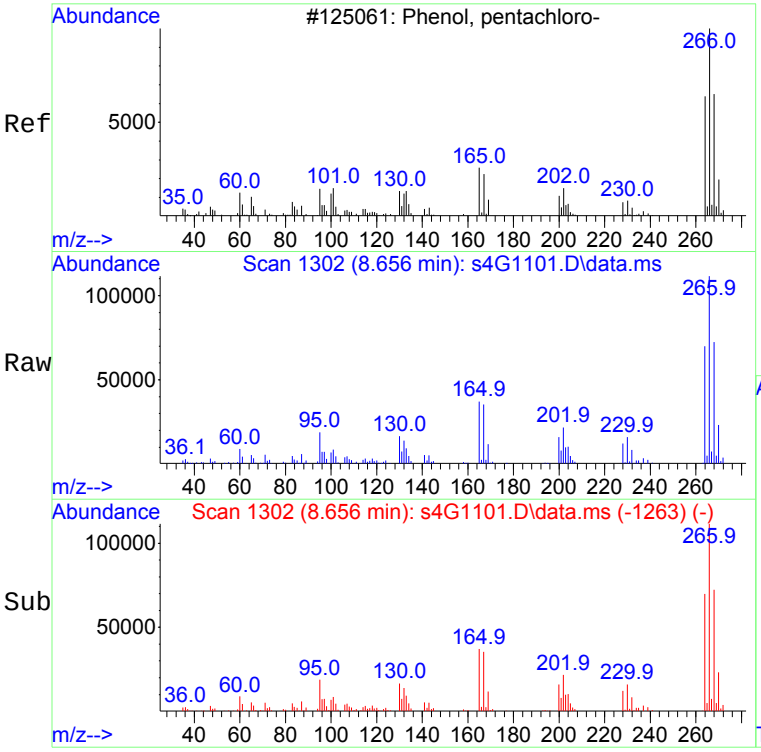


#2
DFTPP
Concen: 5.00 ug/ml
RT: 9.020 min Scan# 1370
Delta R.T. 0.000 min
Lab File: s4G1101.D
Acq: 11 Jul 2023 17:21

Tgt Ion:TIC Resp: 1474692

Ion	Ratio	Lower	Upper
TIC	100		
442	20.1	830.7	870.7#
69	3.5	445.1	485.1#
198	9.6	1041.2	1081.2#

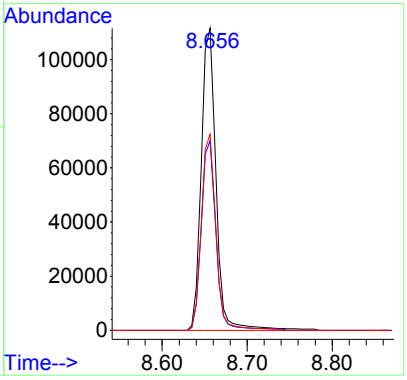


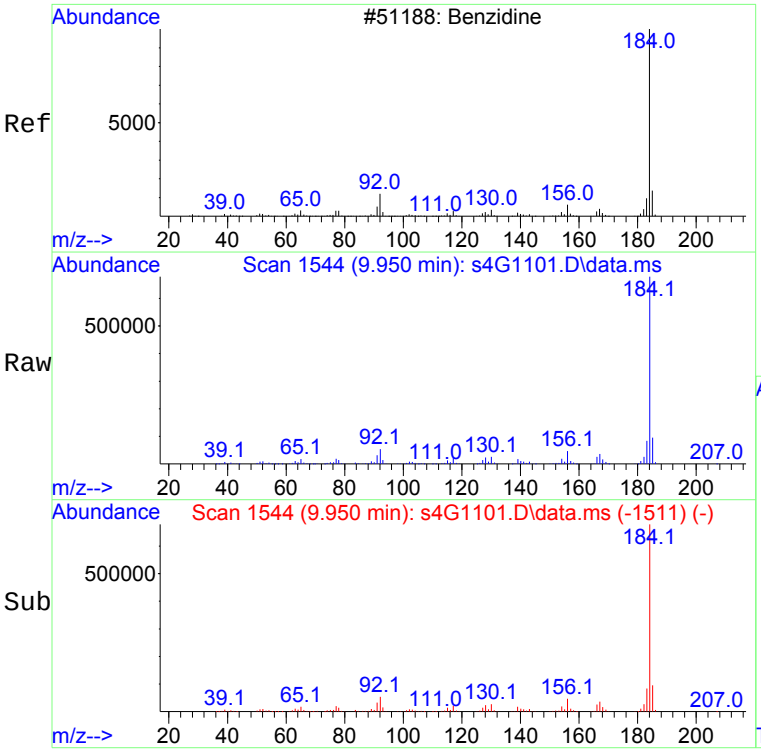


#3
Pentachlorophenol
Concen: 5.41 ug/ml
RT: 8.656 min Scan# 1302
Delta R.T. 0.009 min
Lab File: s4G1101.D
Acq: 11 Jul 2023 17:21

Tgt Ion:266 Resp: 134385

Ion	Ratio	Lower	Upper
266	100		
264	62.2	0.0	164.6
268	63.9	0.0	163.6

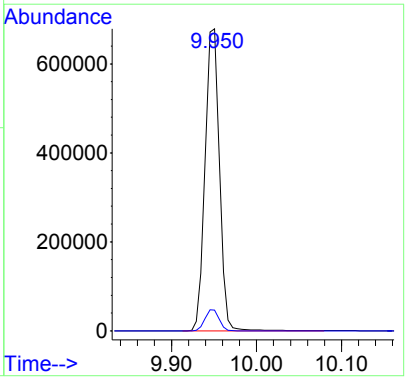


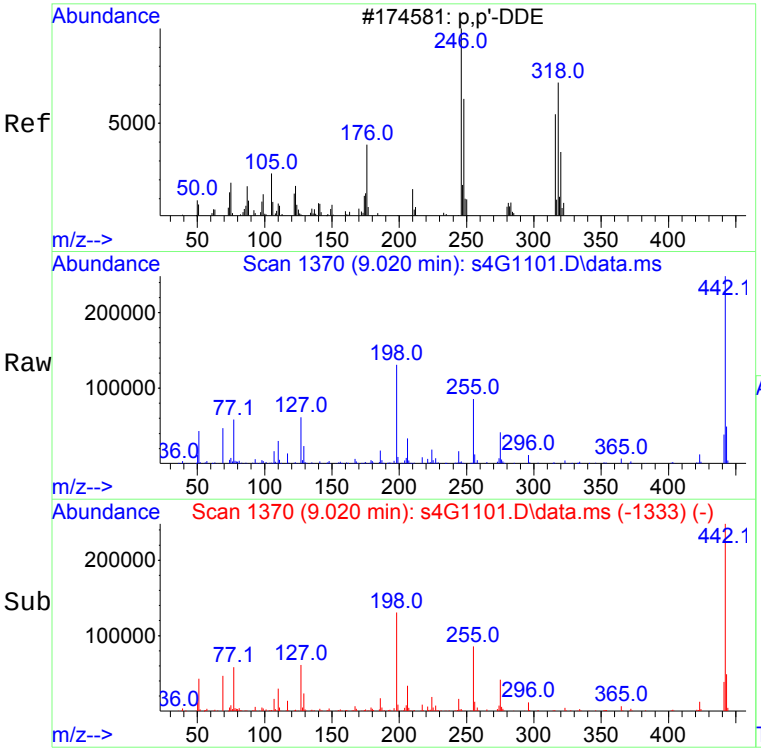


#4
Benzidine
Concen: 8.04 ug/ml
RT: 9.950 min Scan# 1544
Delta R.T. -0.022 min
Lab File: s4G1101.D
Acq: 11 Jul 2023 17:21

Tgt Ion:184 Resp: 799096

Ion	Ratio	Lower	Upper
184	100		
156	6.9	0.0	106.9

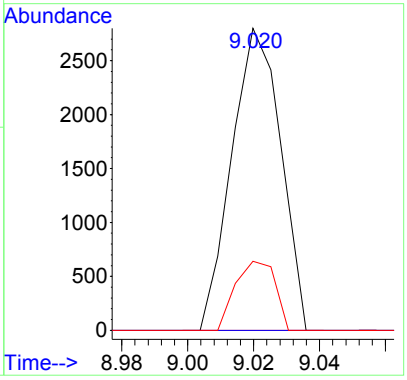


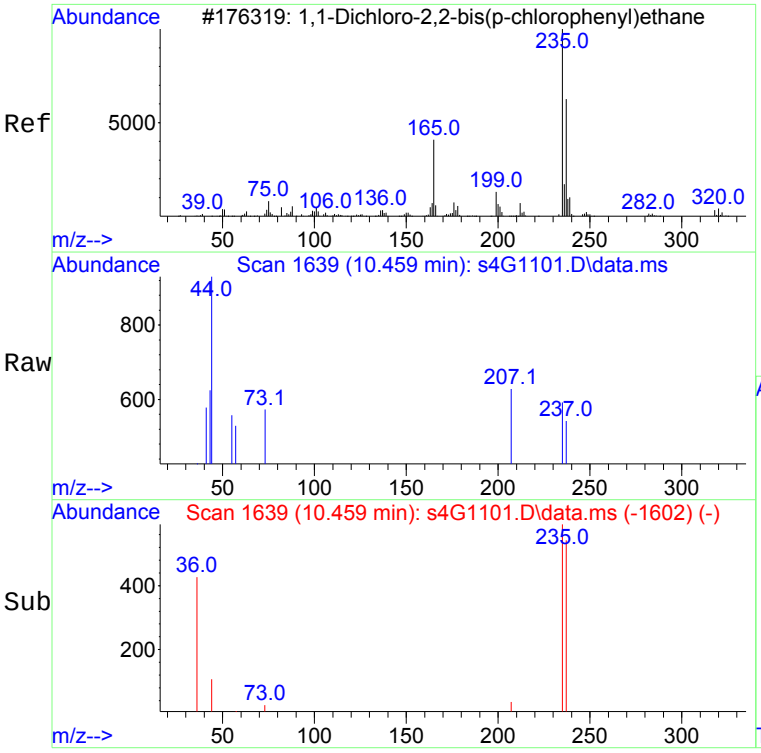


#5
DDE
Concen: 36.02 ug/ml
RT: 9.020 min Scan# 1370
Delta R.T. 0.000 min
Lab File: s4G1101.D
Acq: 11 Jul 2023 17:21

Tgt Ion:246 Resp: 2879

Ion	Ratio	Lower	Upper
246	100		
318	0.0	0.0	100.0
316	18.6	0.0	122.8

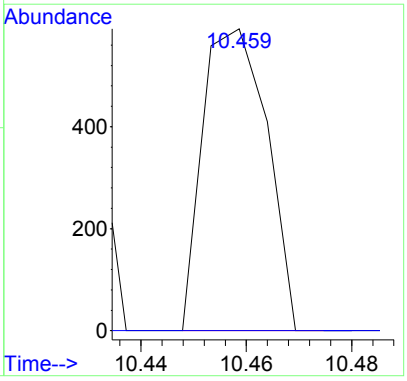


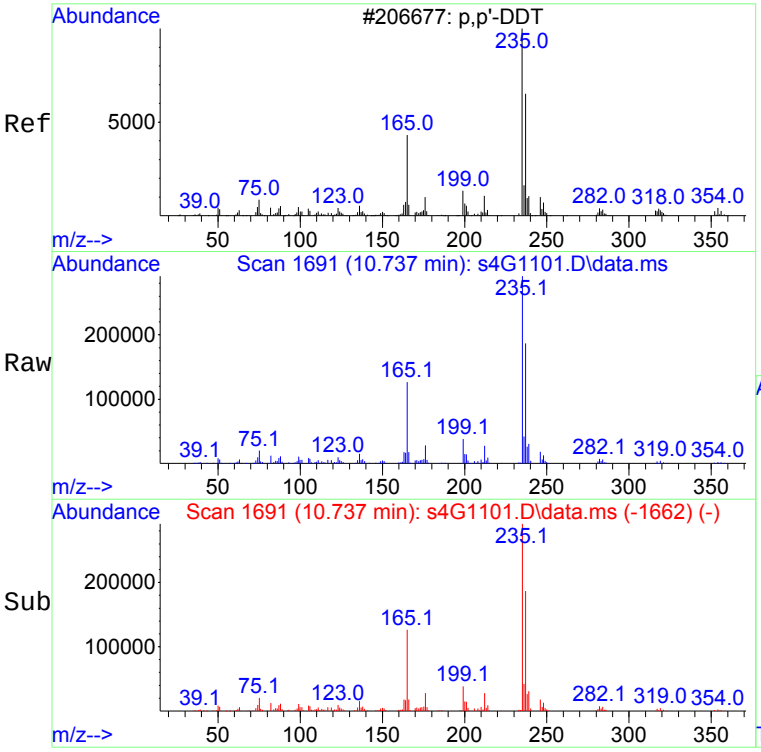


#6
DDD
Concen: 2.17 ug/ml
RT: 10.459 min Scan# 1639
Delta R.T. -0.004 min
Lab File: s4G1101.D
Acq: 11 Jul 2023 17:21

Tgt Ion:235 Resp: 501

Ion	Ratio	Lower	Upper
235	100		
165	0.0	0.0	153.7

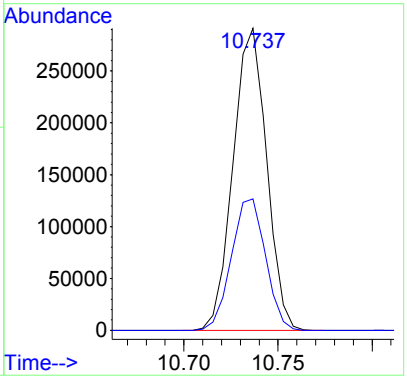




#7
DDT
Concen: 7.96 ug/ml
RT: 10.737 min Scan# 1691
Delta R.T. -0.047 min
Lab File: s4G1101.D
Acq: 11 Jul 2023 17:21

Tgt Ion:235 Resp: 360184

Ion	Ratio	Lower	Upper
235	100		
165	44.3	0.0	145.8



8270 Breakdown Report

07/13/2023

Data File : C:\msdchem\1\data\S071123ICAL\s4G1101.D Vial: 1
Acq On : 11 Jul 2023 17:21 Operator: NM1
Sample : |WBN230607-99|DFTPP|1|SVM|1|DFTPP Inst : MSD4
Misc : Multiplr: 1.00
IntFile : rteint.p

07/13/2023

Compounds	Area/%Breakdown	8270C	8270D
DDE	2879		
DDD	501		
DDT	360184		
Breakdown	0.93%	Pass(<20)	Pass(<20)

Compounds	Tailing Factor	8270C	8270D
Benzidine	0.73	Pass(<3)	Pass(<2)
Pentachlorophenol	0.85	Pass(<5)	Pass(<2)

DFTPP Tune Report

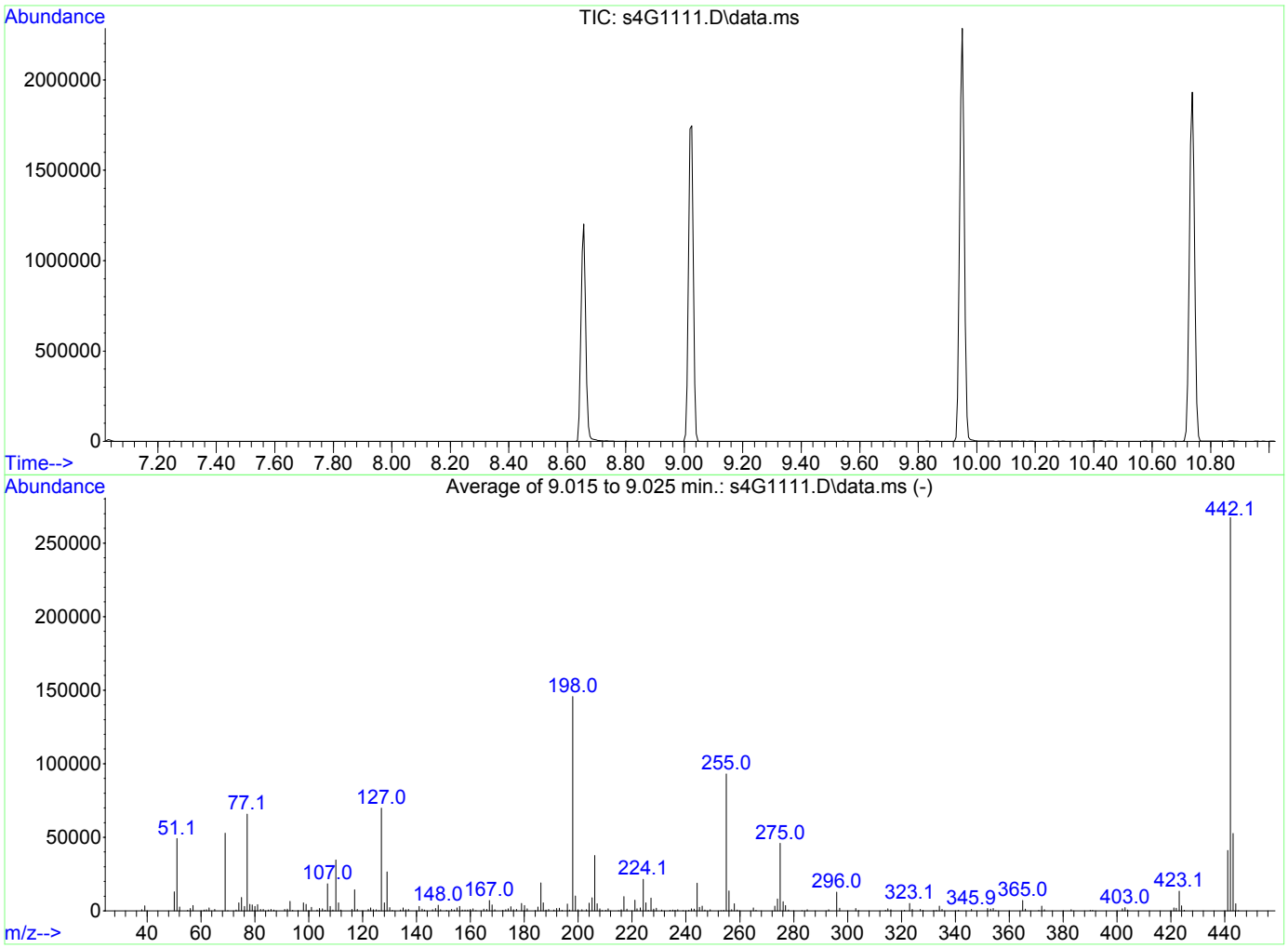
07/13/2023

Data Path : C:\msdchem\1\data\S071123ICAL\
Data File : s4G1111.D
Acq On : 12 Jul 2023 09:34
Operator : NM1
Sample : |WBN230607-99|DFTPP|1|SVM|1|DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

07/13/2023

Integration File: rteint.p

Method : C:\msdchem\1\data\S071123ICAL\BNABrk_Down8270E.m
Title : dftpp / endrin / ddt
Last Update : Sat Mar 23 09:33:11 2019



AutoFind: Scans 1369, 1370, 1371; Background Corrected with Scan 1364

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	36.2	52824	PASS
70	69	0.00	2	0.3	138	PASS
197	198	0.00	2	0.5	689	PASS
198	442	0.01	100	54.5	145744	PASS
199	198	5	9	6.9	10072	PASS
365	198	1	100	4.9	7194	PASS
441	443	0.01	150	78.0	41125	PASS
442	442	0.01	100	100.0	267307	PASS
443	442	15	24	19.7	52717	PASS

This report evaluates the Rel Abn% as passing only if it is greater than the Lower Limit and lower than the Upper Limit.

Quantitation Report

07/13/2023

Data Path : C:\msdchem\1\data\S071123ICAL\
Data File : s4G1111.D
Acq On : 12 Jul 2023 09:34
Operator : NM1
Sample : |WBN230607-99|DFTPP|1|SVM|1|DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

07/13/2023

Quant Time: Jul 13 10:00:43 2023
Quant Method : C:\msdchem\1\data\S071123ICAL\BNABrk_Down8270E.m
Quant Title : dftpp / endrin / ddt
QLast Update : Sat Mar 23 09:33:11 2019
Response via : Initial Calibration

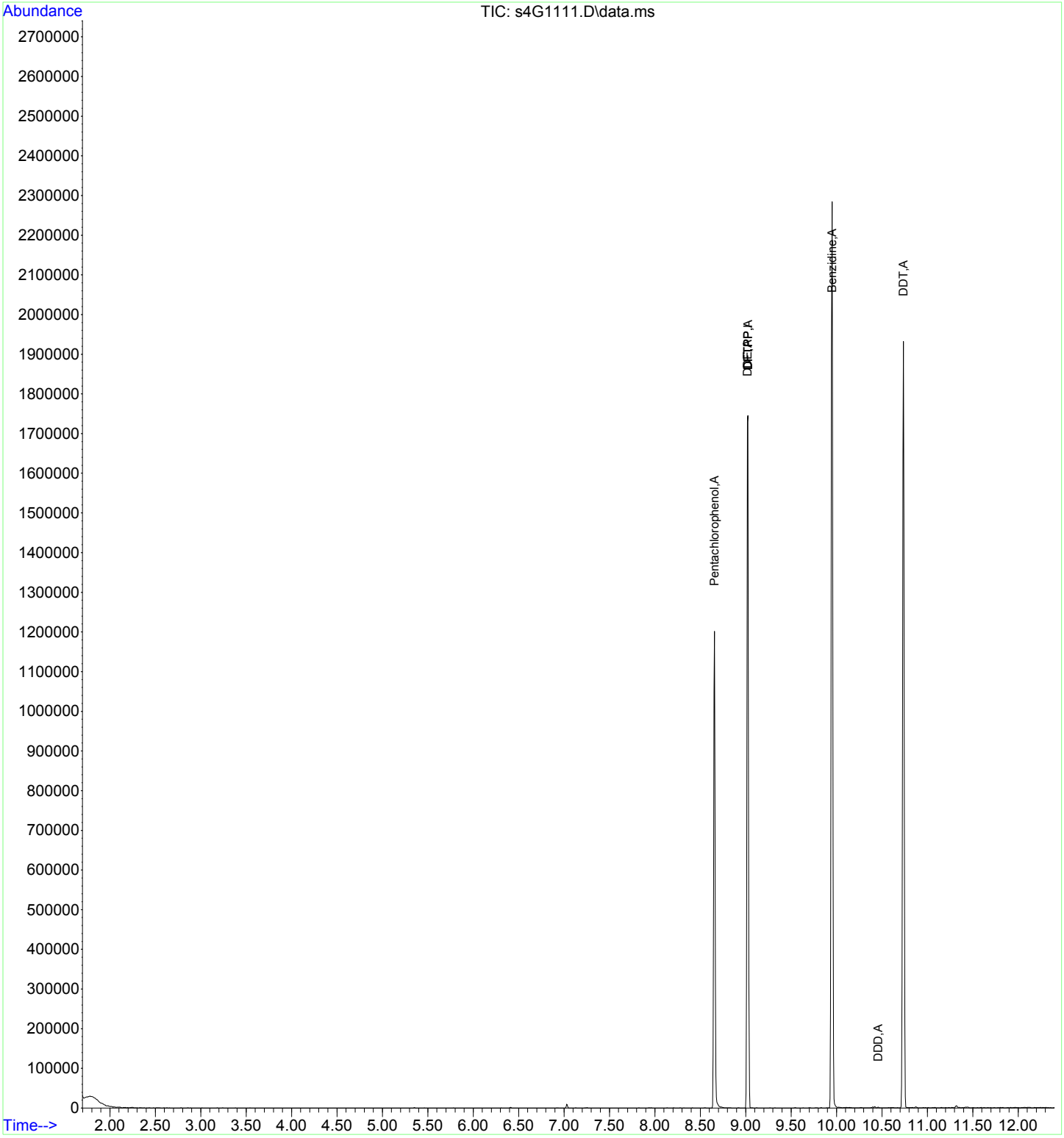
Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	
Internal Standards								Dev(Min)
1) DFTPP	TIC	9.025	9.020	1.000	1994231	5.00	ug/ml #	0.00
Target Compounds	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	QValue
2) DFTPP	TIC	9.025	9.020	1.000	1994231	5.00	ug/ml#	1
3) Pentachlorophenol	266	8.656	8.647	0.959	202268	6.02	ug/ml	98
4) Benzidine	184	9.951	9.972	1.103	1054923	7.85	ug/ml	100
5) DDE	246	9.020	9.020	0.999	4128	38.19	ug/ml#	96
6) DDD	235	10.459	10.462	1.159	952	3.05	ug/ml#	25
7) DDT	235	10.737	10.784	1.190	494976	8.09	ug/ml	98

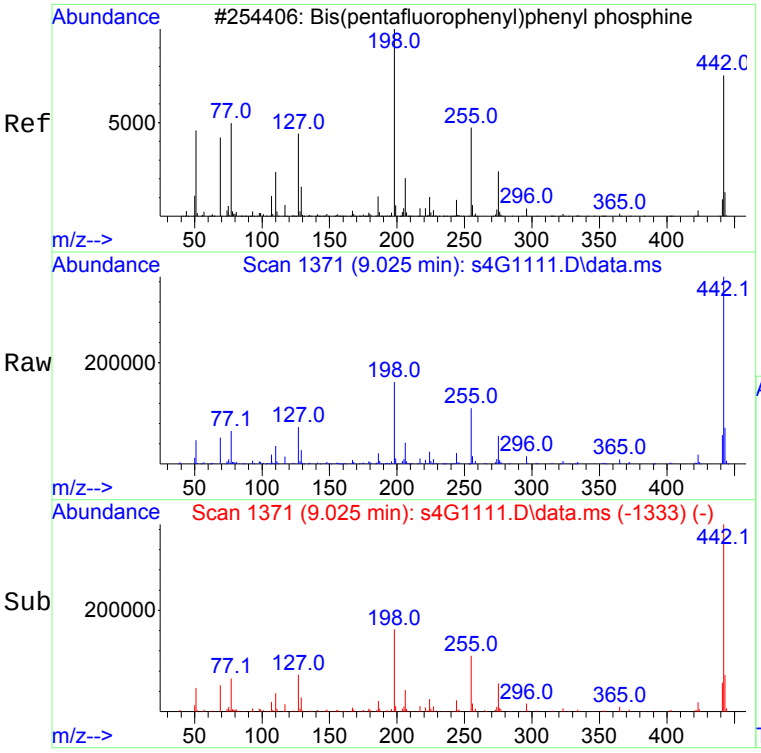
(#) = qualifier out of range (m) = manual integration (+) = signals summed
(A) = Over the calibration range (d) = deleted

Quantitation Report

Data Path : C:\msdchem\1\data\S071123ICAL\
Data File : s4G1111.D
Acq On : 12 Jul 2023 09:34
Operator : NM1
Sample : |WBN230607-99|DFTPP|1|SVM|1|DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 13 10:00:43 2023
Quant Method : C:\msdchem\1\data\S071123ICAL\BNABrk_Down8270E.m
Quant Title : dftpp / endrin / ddt
QLast Update : Sat Mar 23 09:33:11 2019
Response via : Initial Calibration

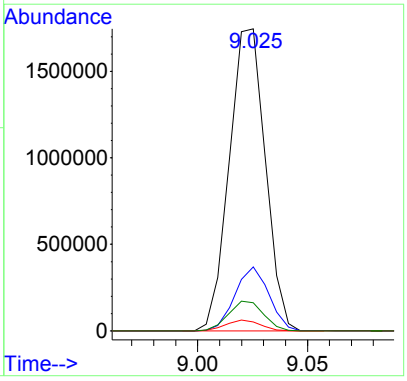


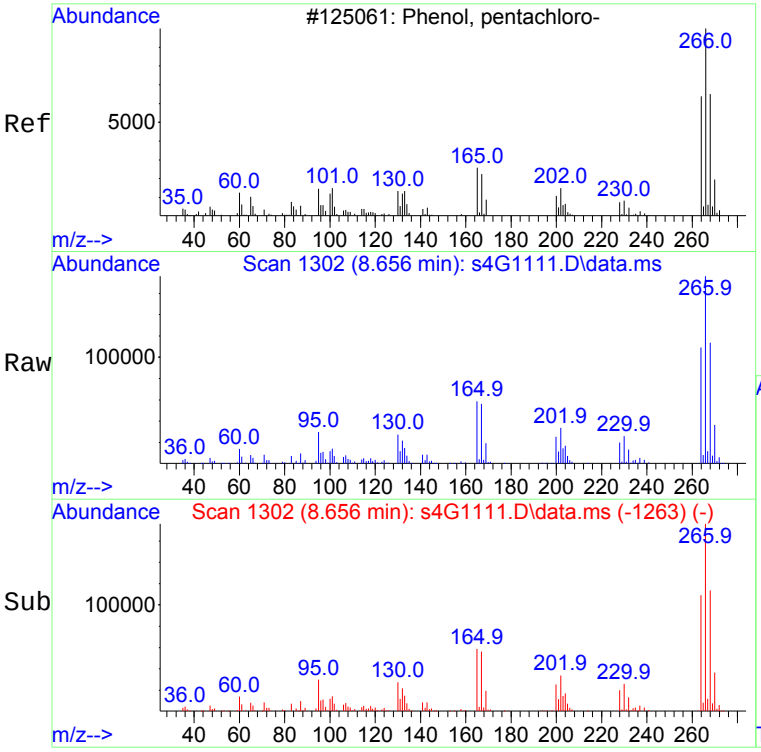


#2
DFTPP
Concen: 5.00 ug/ml
RT: 9.025 min Scan# 1371
Delta R.T. 0.005 min
Lab File: s4G1111.D
Acq: 12 Jul 2023 09:34

Tgt Ion:TIC Resp: 1994231

Ion	Ratio	Lower	Upper
TIC	100		
442	19.9	830.7	870.7#
69	3.4	445.1	485.1#
198	9.6	1041.2	1081.2#

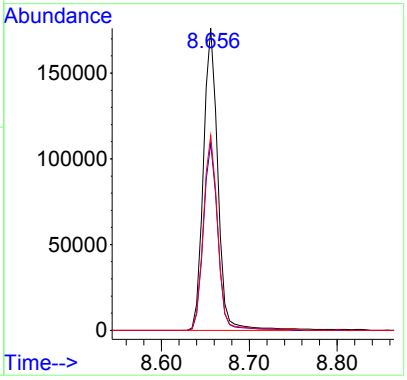


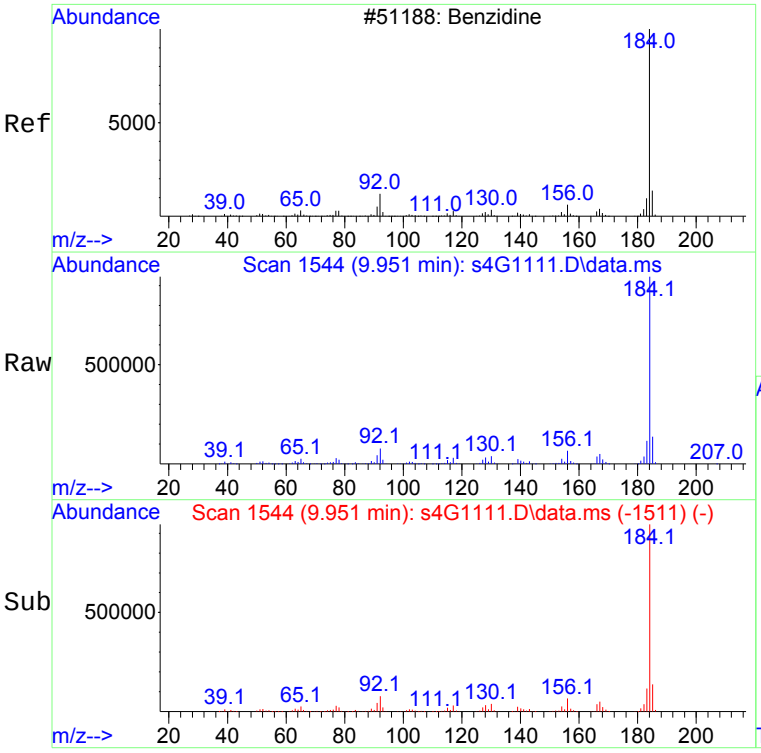


#3
Pentachlorophenol
Concen: 6.02 ug/ml
RT: 8.656 min Scan# 1302
Delta R.T. 0.009 min
Lab File: s4G1111.D
Acq: 12 Jul 2023 09:34

Tgt Ion:266 Resp: 202268

Ion	Ratio	Lower	Upper
266	100		
264	61.6	0.0	164.6
268	64.3	0.0	163.6

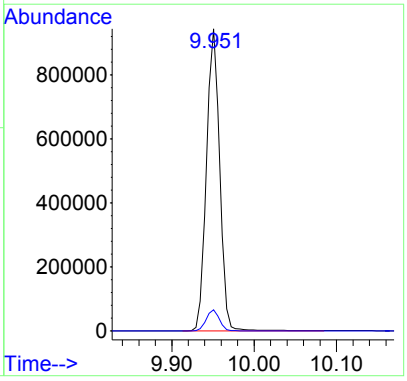


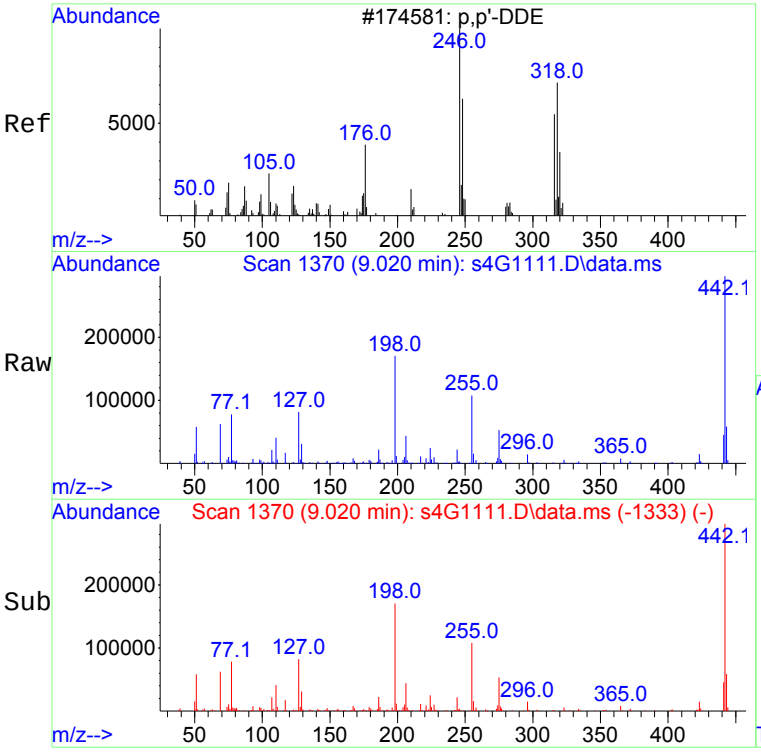


#4
Benzidine
Concen: 7.85 ug/ml
RT: 9.951 min Scan# 1544
Delta R.T. -0.022 min
Lab File: s4G1111.D
Acq: 12 Jul 2023 09:34

Tgt Ion:184 Resp: 1054923

Ion	Ratio	Lower	Upper
184	100		
156	6.8	0.0	106.9

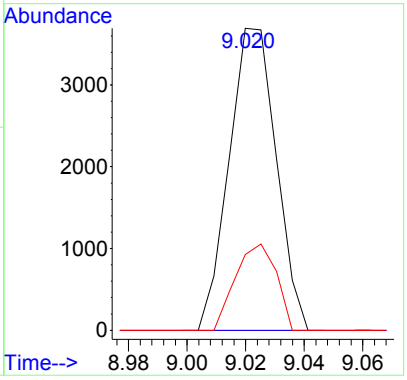


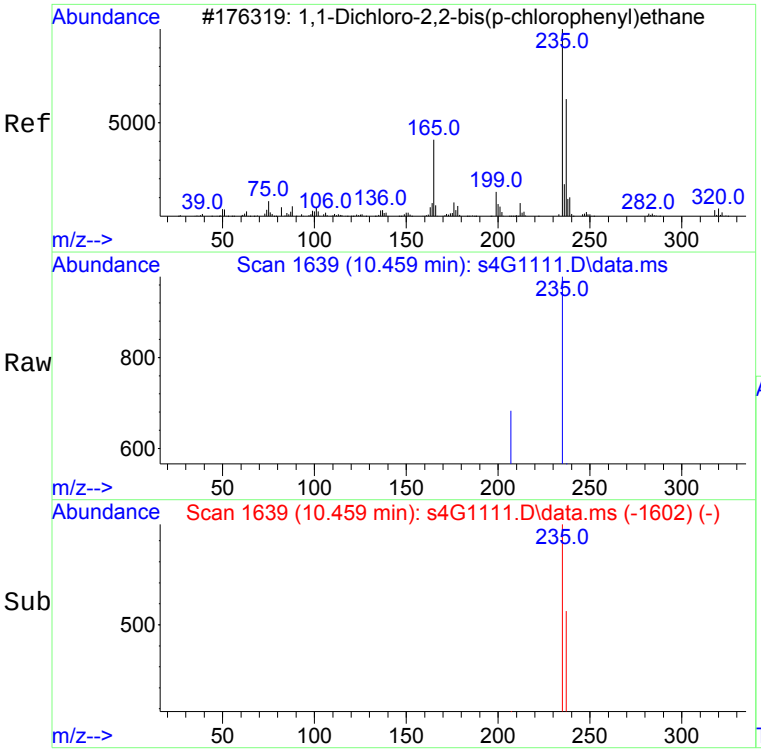


#5
DDE
Concen: 38.19 ug/ml
RT: 9.020 min Scan# 1370
Delta R.T. 0.000 min
Lab File: s4G1111.D
Acq: 12 Jul 2023 09:34

Tgt Ion:246 Resp: 4128

Ion	Ratio	Lower	Upper
246	100		
318	0.0	0.0	100.0
316	24.7	0.0	122.8

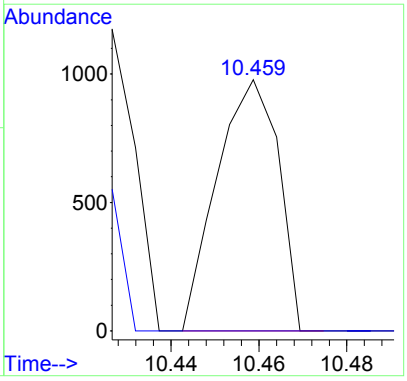


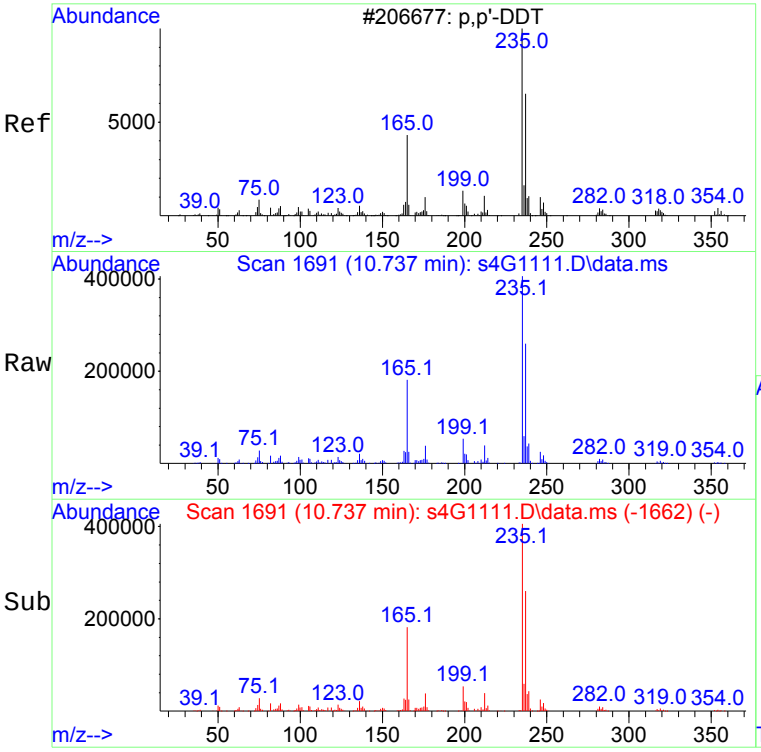


#6
DDD
Concen: 3.05 ug/ml
RT: 10.459 min Scan# 1639
Delta R.T. -0.004 min
Lab File: s4G1111.D
Acq: 12 Jul 2023 09:34

Tgt Ion:235 Resp: 952

Ion	Ratio	Lower	Upper
235	100		
165	0.0	0.0	153.7

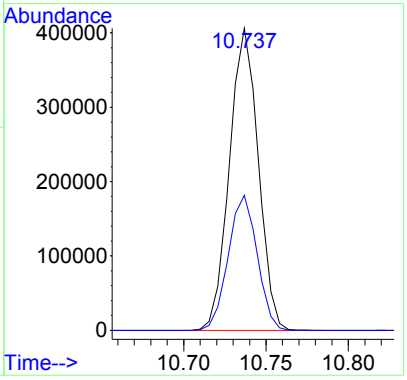




#7
DDT
Concen: 8.09 ug/ml
RT: 10.737 min Scan# 1691
Delta R.T. -0.047 min
Lab File: s4G1111.D
Acq: 12 Jul 2023 09:34

Tgt Ion:235 Resp: 494976

Ion	Ratio	Lower	Upper
235	100		
165	44.7	0.0	145.8



8270 Breakdown Report

07/13/2023

Data File : C:\msdchem\1\data\S071123ICAL\s4G1111.D Vial: 1
Acq On : 12 Jul 2023 09:34 Operator: NM1
Sample : |WBN230607-99|DFTPP|1|SVM|1|DFTPP Inst : MSD4
Misc : Multiplr: 1.00
IntFile : rteint.p

07/13/2023

Compounds	Area/%Breakdown	8270C	8270D
DDE	4128		
DDD	952		
DDT	494976		
Breakdown	1.02%	Pass(<20)	Pass(<20)

Compounds	Tailing Factor	8270C	8270D
Benzidine	0.97	Pass(<3)	Pass(<2)
Pentachlorophenol	1.00	Pass(<5)	Pass(<2)

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**631221**			**Matrix:**	**WATER**
Lab Sample ID:	**1205481839**				
Client Sample:	**QC for batch 2472650**	**Client:**	**TRCI001**	**Project:**	**TRCI00123**
Client ID:	**MB for batch 2472650**	**Method:**	**SW846 3510C/8270E**	**SOP Ref:**	**GL-OA-E-009**
Batch ID:	**2472650**	**Inst:**	**MSD3.I**	**Dilution:**	**1**
Run Date:	**08/09/2023 18:12**	**Analyst:**	**MU1**	**Inj. Vol:**	**1 uL**
Prep Date:	**08/09/2023 12:16**	**Aliquot:**	**1000 mL**	**Final Volume:**	**1 mL**
Data File:	**S080923.S\s3H0906.D**	**Column:**	**DB-5ms**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	Dimethylphthalate	U	0.300	ug/L	0.300	1.00
117-84-0	Di-n-octylphthalate	U	0.300	ug/L	0.300	1.00
70-30-4	Hexachlorophene	U	167	ug/L	167	500

Quantitation Report

08/10/2023

Data Path : C:\msdchem\1\data\S080923.S\
Data File : s3H0906.D
Acq On : 09 Aug 2023 18:12
Operator : MU1
Sample : |1205481839|2472650|1|SVM|1|MB|||
Misc : |MSD1C70E_L|WATER|QC A|mix[a,b,j,d,e]||
ALS Vial : 6 Sample Multiplier: 1

08/10/2023

Quant Time: Aug 10 09:15:48 2023
Quant Method : C:\msdchem\1\data\S080923.S\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:34:09 2023
Response via : Initial Calibration

Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	Dev(Min)
Internal Standards								
1) A 1,4-Dichlorobenzene-d4	152	4.108	4.107	1.000	108656	40.00	ng/uL	0.00
22) A Naphthalene-d8	136	5.526	5.525	1.000	440472	40.00	ng/uL	0.00
39) A Acenaphthene-d10	164	7.257	7.259	1.000	218495	40.00	ng/uL	0.00
64) A Phenanthrene-d10	188	8.560	8.559	1.000	448094	40.00	ng/uL	0.00
80) A Chrysene-d12	240	10.957	10.958	1.000	447968	40.00	ng/uL	0.00
88) A Perylene-d12	264	13.146	13.154	1.000	463088	40.00	ng/uL	0.00
96) B 1,4-Dichlorobenzene-d4	152	4.108	4.107	1.000	108656	40.00	ng/uL	0.00
112) B Naphthalene-d8	136	5.526	5.525	1.000	440472	40.00	ng/uL	0.00
120) B Acenaphthene-d10	164	7.257	7.259	1.000	218495	40.00	ng/uL	0.00
129) B Phenanthrene-d10	188	8.560	8.559	1.000	448094	40.00	ng/uL	0.00
142) B Chrysene-d12	240	10.957	10.958	1.000	447968	40.00	ng/uL	0.00
148) B Perylene-d12	264	13.146	13.154	1.000	463088	40.00	ng/uL	0.00
151) J Naphthalene-d8	136	5.526	5.525	1.000	440472	40.00	ng/uL	0.00
153) J Phenanthrene-d10	188	8.560	8.559	1.000	448094	40.00	ng/uL	0.00
156) J Chrysene-d12	240	10.957	10.958	1.000	447968	40.00	ng/uL	0.00
159) D Naphthalene-d8	136	5.526	5.525	1.000	440472	40.00	ng/uL	0.00
161) D Acenaphthene-d10	164	7.257	7.259	1.000	218495	40.00	ng/uL	0.00
164) D Phenanthrene-d10	188	8.560	8.559	1.000	448094	40.00	ng/uL	0.00
171) D Chrysene-d12	240	10.957	10.958	1.000	447968	40.00	ng/uL	0.00
173) E Naphthalene-d8	136	5.526	5.525	1.000	440472	40.00	ng/uL	0.00
175) E Perylene-d12	264	13.146	13.154	1.000	463088	40.00	ng/uL	0.00
System Monitoring Compounds								Dev(Min)
5) 2-Fluorophenol	112	2.801	2.803	0.682	108343	29.23	ng/uL	0.00
8) Phenol-d5	99	3.674	3.680	0.894	94296	21.20	ng/uL	0.00
23) Nitrobenzene-d5	82	4.711	4.712	0.853	116809	27.44	ng/uL	0.00
44) 2-Fluorobiphenyl	172	6.627	6.627	0.913	242547	27.82	ng/uL	0.00
63) 2,4,6-Tribromophenol	330	7.954	7.959	1.096	97872	46.58	ng/uL	0.00
79) p-Terphenyl-d14	244	9.890	9.890	1.155	321858	26.33	ng/uL	0.00

Compound	Amount	Range	Recovery
5) 2-Fluorophenol	100.000	11 - 79	29%
8) Phenol-d5	100.000	15 - 85	21%
23) Nitrobenzene-d5	50.000	39 - 112	55%
44) 2-Fluorobiphenyl	50.000	39 - 112	56%
63) 2,4,6-Tribromophenol	100.000	37 - 132	47%
79) p-Terphenyl-d14	50.000	24 - 129	53%

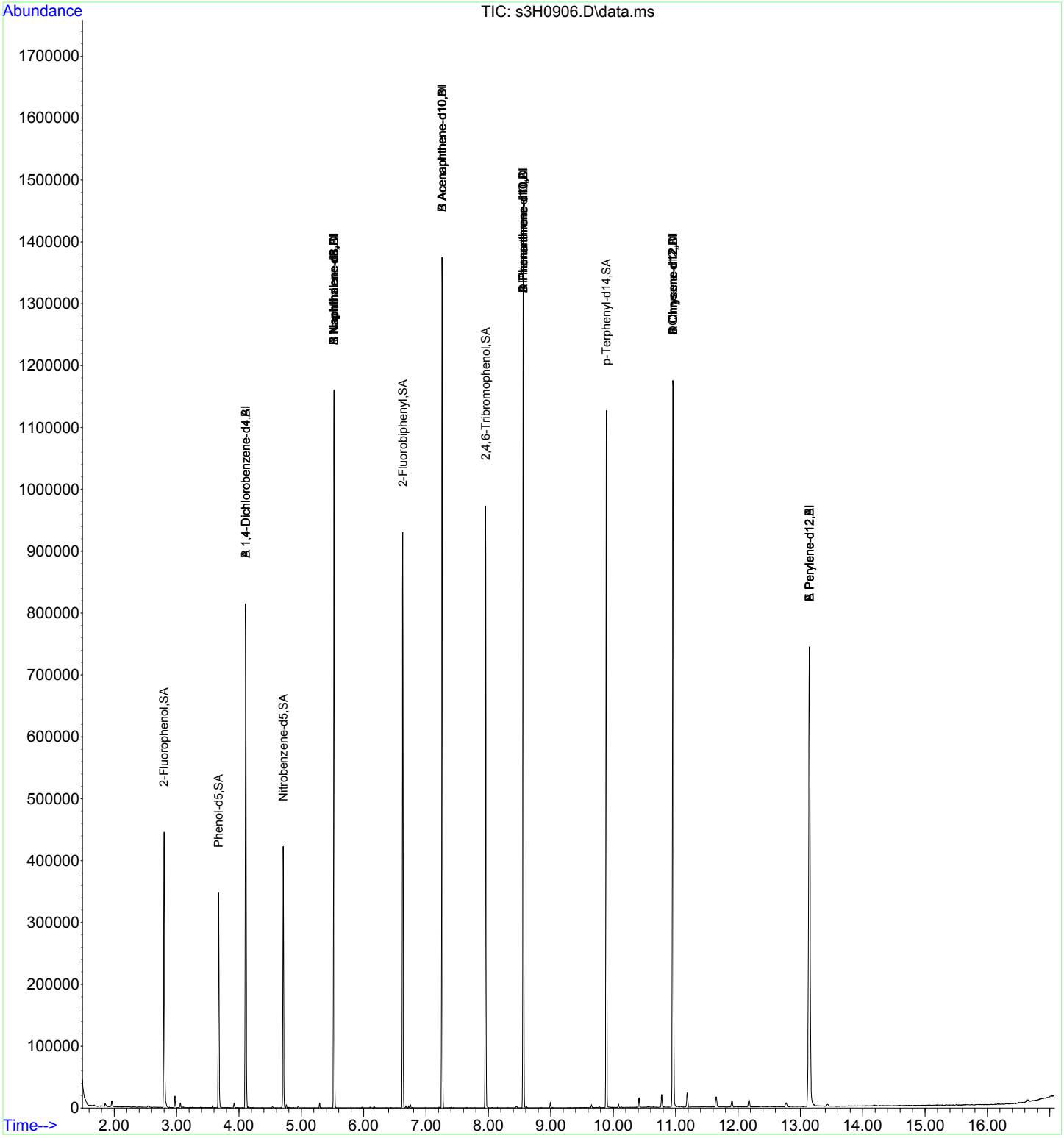
Target Compounds	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	QValue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(A) = Over the calibration range (d) = deleted

Quantitation Report

Data Path : C:\msdchem\1\data\S080923.S\
Data File : s3H0906.D
Acq On : 09 Aug 2023 18:12
Operator : MU1
Sample : |1205481839|2472650|1|SVM|1|MB|||
Misc : |MSD1C70E_L|WATER|QC A|mix[a,b,j,d,e]||
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 10 09:15:48 2023
Quant Method : C:\msdchem\1\data\S080923.S\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:34:09 2023
Response via : Initial Calibration



Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**631221**			**Matrix:**	**WATER**
Lab Sample ID:	**1205476111**				
Client Sample:	**QC for batch 2469789**	**Client:**	**TRCI001**	**Project:**	**TRCI00123**
Client ID:	**MB for batch 2469789**	**Method:**	**SW846 3510C/8270E**	**SOP Ref:**	**GL-OA-E-009**
Batch ID:	**2469792**	**Inst:**	**MSD4.I**	**Dilution:**	**1**
Run Date:	**08/03/2023 11:05**	**Analyst:**	**NM1**	**Inj. Vol:**	**1 uL**
Prep Date:	**08/02/2023 12:36**	**Aliquot:**	**1000 mL**	**Final Volume:**	**1 mL**
Data File:	**S080323\s4H0308.D**	**Column:**	**DB-5ms**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	Dimethylphthalate	U	0.300	ug/L	0.300	1.00
117-84-0	Di-n-octylphthalate	U	0.300	ug/L	0.300	1.00
70-30-4	Hexachlorophene	U	167	ug/L	167	500

Quantitation Report

08/04/2023

Data Path : C:\msdchem\1\data\S080323\
Data File : s4H0308.D
Acq On : 03 Aug 2023 11:05
Operator : NM1
Sample : |1205476111|2469792|1|SVM|1|MB|||
Misc : |MSD1C70E_L|WATER|QC A|mix[a,b,j,d,e]||
ALS Vial : 7 Sample Multiplier: 1

08/04/2023

Quant Time: Aug 04 09:12:30 2023
Quant Method : C:\msdchem\1\data\S080323\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:54:56 2023
Response via : Initial Calibration

Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	Dev(Min)
Internal Standards								
1) A 1,4-Dichlorobenzene-d4	152	4.377	4.377	1.000	187896	40.00	ng/uL	0.00
22) A Naphthalene-d8	136	5.752	5.752	1.000	721014	40.00	ng/uL	0.00
39) A Acenaphthene-d10	164	7.421	7.426	1.000	383637	40.00	ng/uL	0.00
64) A Phenanthrene-d10	188	8.715	8.720	1.000	805045	40.00	ng/uL	0.00
80) A Chrysene-d12	240	11.250	11.255	1.000	935986	40.00	ng/uL	0.00
88) A Perylene-d12	264	13.678	13.684	1.000	1059116	40.00	ng/uL	0.00
96) B 1,4-Dichlorobenzene-d4	152	4.377	4.377	1.000	187896	40.00	ng/uL	0.00
112) B Naphthalene-d8	136	5.752	5.752	1.000	721014	40.00	ng/uL	0.00
120) B Acenaphthene-d10	164	7.421	7.426	1.000	383637	40.00	ng/uL	0.00
129) B Phenanthrene-d10	188	8.715	8.720	1.000	805045	40.00	ng/uL	0.00
142) B Chrysene-d12	240	11.250	11.255	1.000	935986	40.00	ng/uL	0.00
148) B Perylene-d12	264	13.678	13.684	1.000	1059116	40.00	ng/uL	0.00
151) J Naphthalene-d8	136	5.752	5.752	1.000	721014	40.00	ng/uL	0.00
153) J Phenanthrene-d10	188	8.715	8.720	1.000	805045	40.00	ng/uL	0.00
156) J Chrysene-d12	240	11.250	11.255	1.000	935986	40.00	ng/uL	0.00
159) D Naphthalene-d8	136	5.752	5.752	1.000	721014	40.00	ng/uL	0.00
161) D Acenaphthene-d10	164	7.421	7.426	1.000	383637	40.00	ng/uL	0.00
164) D Phenanthrene-d10	188	8.715	8.720	1.000	805045	40.00	ng/uL	0.00
171) D Chrysene-d12	240	11.250	11.255	1.000	935986	40.00	ng/uL	0.00
173) E Naphthalene-d8	136	5.752	5.752	1.000	721014	40.00	ng/uL	0.00
175) E Perylene-d12	264	13.678	13.684	1.000	1059262	40.00	ng/uL	0.00
System Monitoring Compounds								Dev(Min)
5) 2-Fluorophenol	112	3.077	3.083	0.703	221763	37.98	ng/uL	0.00
8) Phenol-d5	99	3.971	3.971	0.907	203974	28.24	ng/uL	0.00
23) Nitrobenzene-d5	82	4.982	4.987	0.866	220987	36.56	ng/uL	0.00
44) 2-Fluorobiphenyl	172	6.800	6.800	0.916	527100	37.07	ng/uL	0.00
63) 2,4,6-Tribromophenol	330	8.116	8.116	1.094	277935	79.74	ng/uL	0.00
79) p-Terphenyl-d14	244	10.057	10.057	1.154	842082	38.44	ng/uL	0.00

Compound	Amount	Range	Recovery
5) 2-Fluorophenol	100.000	11 - 79	38%
8) Phenol-d5	100.000	15 - 85	28%
23) Nitrobenzene-d5	50.000	39 - 112	73%
44) 2-Fluorobiphenyl	50.000	39 - 112	74%
63) 2,4,6-Tribromophenol	100.000	37 - 132	80%
79) p-Terphenyl-d14	50.000	24 - 129	77%

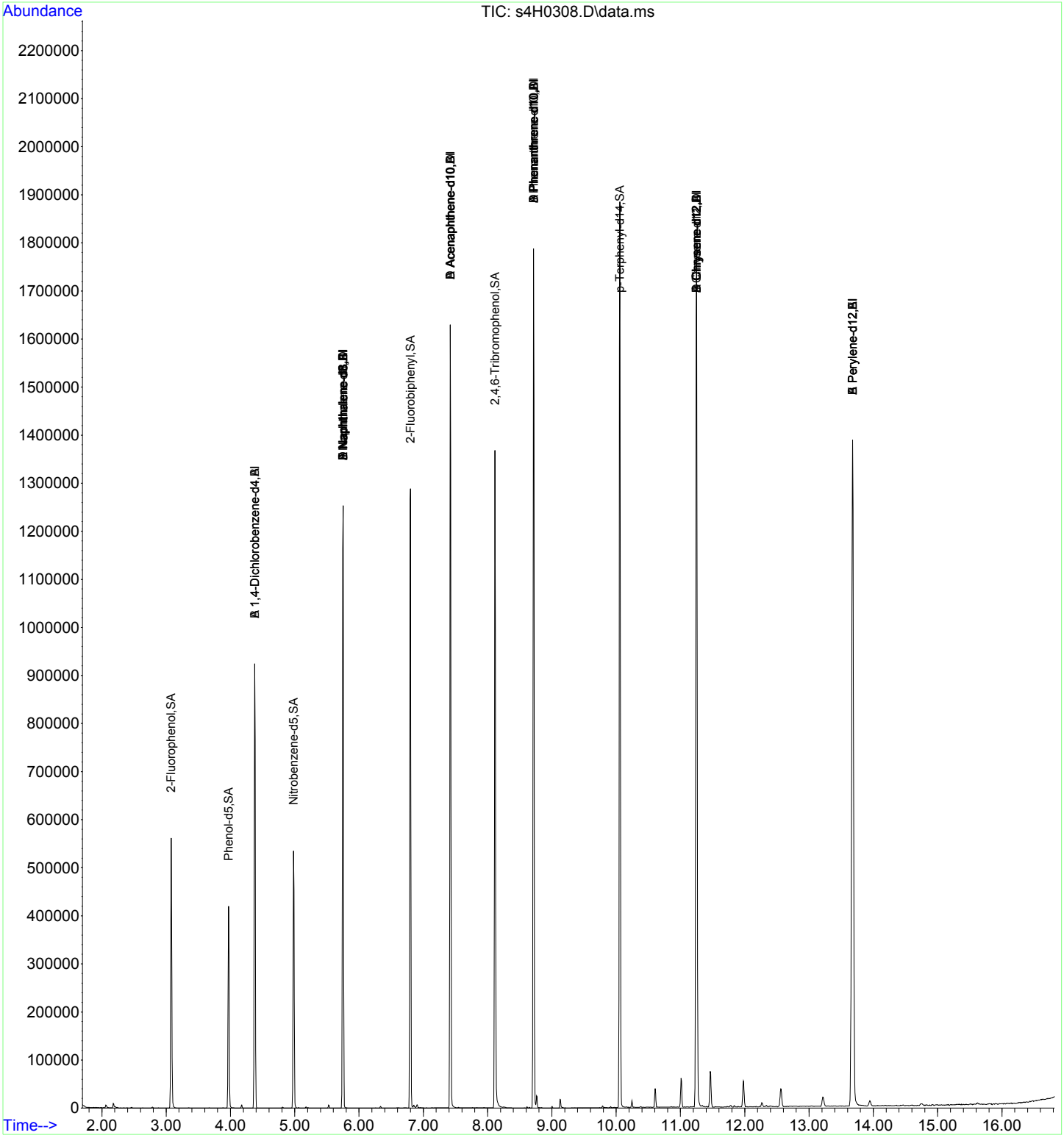
Target Compounds	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	QValue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(A) = Over the calibration range (d) = deleted

Quantitation Report

Data Path : C:\msdchem\1\data\S080323\
Data File : s4H0308.D
Acq On : 03 Aug 2023 11:05
Operator : NM1
Sample : |1205476111|2469792|1|SVM|1|MB|||
Misc : |MSD1C70E_L|WATER|QC A|mix[a,b,j,d,e]||
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 04 09:12:30 2023
Quant Method : C:\msdchem\1\data\S080323\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:54:56 2023
Response via : Initial Calibration



Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**631221**			**Matrix:**	**WATER**
Lab Sample ID:	**1205481840**				
Client Sample:	**QC for batch 2472650**	**Client:**	**TRCI001**	**Project:**	**TRCI00123**
Client ID:	**LCS for batch 2472650**	**Method:**	**SW846 3510C/8270E**	**SOP Ref:**	**GL-OA-E-009**
Batch ID:	**2472650**	**Inst:**	**MSD3.I**	**Dilution:**	**1**
Run Date:	**08/09/2023 18:34**	**Analyst:**	**MU1**	**Inj. Vol:**	**1 uL**
Prep Date:	**08/09/2023 12:16**	**Aliquot:**	**1000 mL**	**Final Volume:**	**1 mL**
Data File:	**S080923.S\s3H0907.D**	**Column:**	**DB-5ms**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	Dimethylphthalate		27.4	ug/L	0.300	1.00
117-84-0	Di-n-octylphthalate		28.6	ug/L	0.300	1.00
70-30-4	Hexachlorophene	U	167	ug/L	167	500

Quantitation Report

08/10/2023

Data Path : C:\msdchem\1\data\S080923.S\
Data File : s3H0907.D
Acq On : 09 Aug 2023 18:34
Operator : MU1
Sample : |1205481840|2472650|1|SVM|1|LCS|||
Misc : |MSD1C70E_L|WATER|QC A|mix[a,b,j,d,e]||
ALS Vial : 7 Sample Multiplier: 1

08/10/2023

Quant Time: Aug 10 09:16:01 2023
Quant Method : C:\msdchem\1\data\S080923.S\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:34:09 2023
Response via : Initial Calibration

Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	Dev(Min)
Internal Standards								
1) A 1,4-Dichlorobenzene-d4	152	4.111	4.107	1.000	117033	40.00	ng/uL	0.00
22) A Naphthalene-d8	136	5.527	5.525	1.000	478023	40.00	ng/uL	0.00
39) A Acenaphthene-d10	164	7.260	7.259	1.000	243053	40.00	ng/uL	0.00
64) A Phenanthrene-d10	188	8.559	8.559	1.000	493850	40.00	ng/uL	0.00
80) A Chrysene-d12	240	10.960	10.958	1.000	519407	40.00	ng/uL	0.00
88) A Perylene-d12	264	13.148	13.154	1.000	537602	40.00	ng/uL	0.00
96) B 1,4-Dichlorobenzene-d4	152	4.111	4.107	1.000	117033	40.00	ng/uL	0.00
112) B Naphthalene-d8	136	5.527	5.525	1.000	478023	40.00	ng/uL	0.00
120) B Acenaphthene-d10	164	7.260	7.259	1.000	243053	40.00	ng/uL	0.00
129) B Phenanthrene-d10	188	8.559	8.559	1.000	493850	40.00	ng/uL	0.00
142) B Chrysene-d12	240	10.960	10.958	1.000	519407	40.00	ng/uL	0.00
148) B Perylene-d12	264	13.148	13.154	1.000	537602	40.00	ng/uL	0.00
151) J Naphthalene-d8	136	5.527	5.525	1.000	478023	40.00	ng/uL	0.00
153) J Phenanthrene-d10	188	8.559	8.559	1.000	493850	40.00	ng/uL	0.00
156) J Chrysene-d12	240	10.960	10.958	1.000	519407	40.00	ng/uL	0.00
159) D Naphthalene-d8	136	5.527	5.525	1.000	478023	40.00	ng/uL	0.00
161) D Acenaphthene-d10	164	7.260	7.259	1.000	243053	40.00	ng/uL	0.00
164) D Phenanthrene-d10	188	8.559	8.559	1.000	493850	40.00	ng/uL	0.00
171) D Chrysene-d12	240	10.960	10.958	1.000	519407	40.00	ng/uL	0.00
173) E Naphthalene-d8	136	5.527	5.525	1.000	478023	40.00	ng/uL	0.00
175) E Perylene-d12	264	13.148	13.154	1.000	537602	40.00	ng/uL	0.00
System Monitoring Compounds								Dev(Min)
5) 2-Fluorophenol	112	2.802	2.803	0.681	92928	23.28	ng/uL	0.00
8) Phenol-d5	99	3.677	3.680	0.894	87675	18.30	ng/uL	0.00
23) Nitrobenzene-d5	82	4.712	4.712	0.853	116808	25.29	ng/uL	0.00
44) 2-Fluorobiphenyl	172	6.629	6.627	0.913	240319	24.78	ng/uL	0.00
63) 2,4,6-Tribromophenol	330	7.958	7.959	1.096	101113	43.26	ng/uL	0.00
79) p-Terphenyl-d14	244	9.890	9.890	1.156	246924	18.33	ng/uL	0.00

Compound	Amount	Range	Recovery
5) 2-Fluorophenol	100.000	11 - 79	23%
8) Phenol-d5	100.000	15 - 85	18%
23) Nitrobenzene-d5	50.000	39 - 112	51%
44) 2-Fluorobiphenyl	50.000	39 - 112	50%
63) 2,4,6-Tribromophenol	100.000	37 - 132	43%
79) p-Terphenyl-d14	50.000	24 - 129	37%

Target Compounds	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	QValue
3) N-Methyl-N-nitrosometh...	74	1.797	1.797	0.437	43941	16.79	ng/uL#	58
4) Pyridine	79	1.841	1.840	0.448	66970	14.75	ng/uL	68
7) Aniline	93	3.757	3.760	0.914	122388	21.06	ng/uL	92
9) Phenol	94	3.692	3.696	0.898	52330	10.13	ng/uL	83
10) bis(2-Chloroethyl) ether	93	3.815	3.819	0.928	107290	25.56	ng/uL	85
11) 2-Chlorophenol	128	3.880	3.878	0.944	78570	18.63	ng/uL	88
12) n-Decane	43	3.924	3.926	0.954	106169	17.14	ng/uL	89
13) 1,3-Dichlorobenzene	146	4.050	4.049	0.985	104656	21.63	ng/uL	99
14) 1,4-Dichlorobenzene	146	4.129	4.129	1.004	113154	22.85	ng/uL	98
15) 1,2-Dichlorobenzene	146	4.293	4.295	1.044	105800	22.49	ng/uL	99
16) bis(2-Chloro-1-methyle...	45	4.396	4.397	1.069	222532	27.74	ng/uL	84
17) Benzyl alcohol	108	4.240	4.242	1.031	58861	21.48	ng/uL	92
18) o-Cresol	107	4.349	4.348	1.058	61025	17.78	ng/uL	97
19) m,p-Cresols	108	4.519	4.525	1.099	68654	17.11	ng/uL	88
20) N-Nitrosodipropylamine	70	4.539	4.541	1.104	89862	29.35	ng/uL	66
21) Hexachloroethane	117	4.668	4.669	1.135	38821	20.15	ng/uL	99
24) Nitrobenzene	77	4.736	4.739	0.857	129800	27.23	ng/uL	94

Quantitation Report

Data Path : C:\msdchem\1\data\S080923.S\
Data File : s3H0907.D
Acq On : 09 Aug 2023 18:34
Operator : MU1
Sample : |1205481840|2472650|1|SVM|1|LCS|||
Misc : |MSD1C70E_L|WATER|QC A|mix[a,b,j,d,e]||
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 10 09:16:01 2023
Quant Method : C:\msdchem\1\data\S080923.S\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:34:09 2023
Response via : Initial Calibration

Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	
25) Isophorone	82	5.005	5.006	0.906	233197	28.41	ng/uL	98
26) 2-Nitrophenol	139	5.099	5.097	0.923	46115	21.90	ng/uL	84
27) 2,4-Dimethylphenol	122	5.137	5.135	0.929	59440	19.30	ng/uL	96
28) bis(2-Chloroethoxy)met...	93	5.254	5.258	0.951	145258	27.04	ng/uL	99
29) 2,4-Dichlorophenol	162	5.360	5.359	0.970	78960	21.31	ng/uL	99
30) Benzoic acid	105	5.193	5.226	0.940	41227	13.65	ng/uL	93
31) 1,2,4-Trichlorobenzene	180	5.463	5.466	0.988	88598	21.20	ng/uL	96
32) alpha-Terpineol	59	5.559	5.557	1.006	128872	27.91	ng/uL	80
33) Naphthalene	128	5.551	5.552	1.004	322384	24.56	ng/uL	100
34) 4-Chloroaniline	127	5.603	5.605	1.014	129718	24.96	ng/uL	92
35) Hexachlorobutadiene	225	5.683	5.686	1.028	46715	18.34	ng/uL	99
36) 4-Chloro-3-methylphenol	107	6.102	6.103	1.104	83307	22.47	ng/uL	96
37) 2-Methylnaphthalene	142	6.269	6.269	1.134	204531	24.38	ng/uL	99
38) 1-Methylnaphthalene	142	6.368	6.365	1.152	200312	24.59	ng/uL	98
40) Hexachlorocyclopentadiene	237	6.424	6.424	0.885	45256	16.33	ng/uL	98
41) 2,3-Dichloroaniline	161	6.541	6.541	0.901	120462	25.99	ng/uL	99
42) 2,4,6-Trichlorophenol	196	6.541	6.541	0.901	66298	22.58	ng/uL	99
43) 2,4,5-Trichlorophenol	196	6.571	6.568	0.905	73468	24.80	ng/uL	99
45) 2-Chloronaphthalene	162	6.744	6.739	0.929	207217	24.20	ng/uL	100
46) o-Nitroaniline	65	6.835	6.836	0.941	77586	30.76	ng/uL	84
48) m-Nitroaniline	138	7.213	7.215	0.994	60086	26.48	ng/uL	93
49) Dimethylphthalate	163	7.008	7.007	0.965	262058	27.35	ng/uL	99
51) 2,6-Dinitrotoluene	165	7.060	7.060	0.973	53019	26.37	ng/uL	81
52) 2,4-Dinitrotoluene	165	7.424	7.424	1.023	74162	27.47	ng/uL	92
53) Acenaphthylene	152	7.131	7.130	0.982	323350	24.64	ng/uL	100
54) Acenaphthene	154	7.289	7.290	1.004	216556	26.11	ng/uL	99
55) 2,4-Dinitrophenol	184	7.307	7.306	1.006	25176	20.81	ng/uL	94
56) Dibenzofuran	168	7.445	7.445	1.025	322082	27.72	ng/uL	99
57) 2,3,4,6-Tetrachlorophenol	232	7.547	7.510	1.040	61309	22.87	ng/uL	96
58) Diethylphthalate	149	7.641	7.643	1.053	289455	29.47	ng/uL	99
59) 4-Nitrophenol	109	7.348	7.349	1.012	14202	10.18	ng/uL	84
60) Fluorene	166	7.750	7.750	1.067	260360	26.59	ng/uL	100
61) 4-Chlorophenylphenylether	204	7.747	7.745	1.067	125271	26.80	ng/uL	99
62) p-Nitroaniline	138	7.755	7.756	1.068	65495	28.43	ng/uL	90
65) 2-Methyl-4,6-dinitroph...	198	7.782	7.782	0.909	37998	25.83	ng/uL#	75
66) Diphenylamine	169	7.846	7.847	0.917	227560	28.03	ng/uL	96
67) 1,2-Diphenylhydrazine	77	7.885	7.884	0.921	318730	32.04	ng/uL	96
68) 4-Bromophenylphenylether	248	8.172	8.173	0.955	79625	25.48	ng/uL	97
69) Hexachlorobenzene	284	8.225	8.226	0.961	98456	23.95	ng/uL	100
70) Pentachlorophenol	266	8.389	8.387	0.980	59544	26.67	ng/uL	100
71) n-Octadecane	57	8.445	8.446	0.987	234370	29.09	ng/uL	85
73) Phenanthrene	178	8.580	8.579	1.002	388792	26.48	ng/uL	100
74) Anthracene	178	8.624	8.622	1.008	392616	27.34	ng/uL	99
75) Carbazole	167	8.753	8.756	1.023	374295	29.12	ng/uL	99
76) Di-n-butylphthalate	149	9.031	9.029	1.055	458261	29.23	ng/uL	99
77) Fluoranthene	202	9.582	9.585	1.120	425053	27.12	ng/uL	98
78) Pyrene	202	9.776	9.777	1.142	451697	27.25	ng/uL	99
81) Butylbenzylphthalate	149	10.321	10.323	0.942	181568	31.11	ng/uL	92
82) bis(2-Ethylhexyl)phtha...	149	10.943	10.943	0.998	270767	28.19	ng/uL	97
83) Benzo(a)anthracene	228	10.949	10.949	0.999	437588	26.66	ng/uL	99
84) Chrysene	228	10.993	10.997	1.003	418030	27.87	ng/uL	98
87) Di-n-octylphthalate	149	11.846	11.847	1.081	395540	28.61	ng/uL	84
89) Benzo(b)fluoranthene	252	12.479	12.484	0.949	415151	26.51	ng/uL	98
90) Benzo(k)fluoranthene	252	12.526	12.532	0.953	404470	27.44	ng/uL	98
91) Benzo(a)pyrene	252	13.045	13.051	0.992	357382	27.25	ng/uL	98
92) Indeno(1,2,3-cd)pyrene	276	15.276	15.286	1.162	370175	25.59	ng/uL	96
93) Dibenzo(a,h)anthracene	278	15.335	15.345	1.166	378449	23.84	ng/uL	97

Quantitation Report

Data Path : C:\msdchem\1\data\S080923.S\
Data File : s3H0907.D
Acq On : 09 Aug 2023 18:34
Operator : MU1
Sample : |1205481840|2472650|1|SVM|1|LCS|||
Misc : |MSD1C70E_L|WATER|QC A|mix[a,b,j,d,e]||
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 10 09:16:01 2023
Quant Method : C:\msdchem\1\data\S080923.S\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:34:09 2023
Response via : Initial Calibration

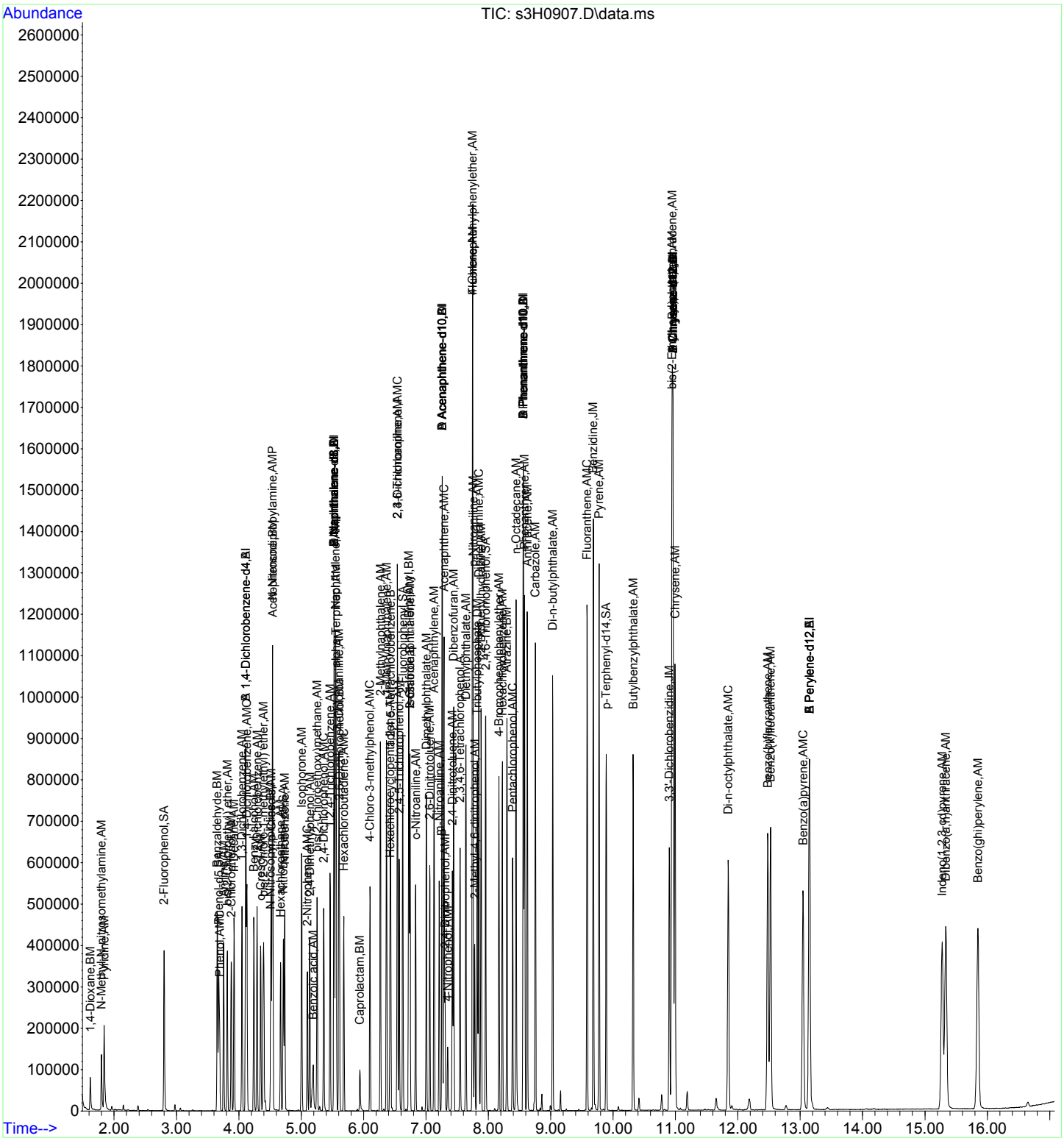
	Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	
94)	Benzo(ghi)perylene	276	15.851	15.864	1.206	407119	26.12	ng/uL	96
97)	1,4-Dioxane	88	1.618	1.618	0.394	24062	13.20	ng/uL	95
106)	Benzaldehyde	77	3.654	3.658	0.889	87874	26.63	ng/uL	98
108)	N-Nitrosopyrrolidine	100	4.510	4.513	1.097	45424	23.11	ng/uL	90
109)	Acetophenone	105	4.542	4.542	1.105	174957	26.28	ng/uL	95
115)	2,6-Dichlorophenol	162	5.612	5.612	1.015	82798	22.91	ng/uL	95
117)	Caprolactam	113	5.941	5.947	1.075	7394	6.85	ng/uL#	82
121)	1,2,4,5-Tetrachloroben...	216	6.433	6.433	0.886	97291	24.17	ng/uL	99
122)	1,1-Biphenyl	154	6.723	6.723	0.926	269021	26.15	ng/uL	98
123)	Isosafrole	162	6.744	6.688	0.929	207217	61.68	ng/uL#	31
135)	Atrazine	200	8.298	8.298	0.969	81647	35.01	ng/uL	97
155)	Benzidine	184	9.682	9.681	1.131	446966	44.69	ng/uL	99
158)	3,3'-Dichlorobenzidine	252	10.902	10.903	0.995	146817	23.75	ng/uL	98
163)	Tributylphosphate	99	7.823	7.822	1.078	313787	30.36	ng/uL	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(A) = Over the calibration range (d) = deleted

Quantitation Report

Data Path : C:\msdchem\1\data\S080923.S\
Data File : s3H0907.D
Acq On : 09 Aug 2023 18:34
Operator : MU1
Sample : |1205481840|2472650|1|SVM|1|LCS|||
Misc : |MSD1C70E_L|WATER|QC A|mix[a,b,j,d,e]||
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 10 09:16:01 2023
Quant Method : C:\msdchem\1\data\S080923.S\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:34:09 2023
Response via : Initial Calibration



Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**631221**			**Matrix:**	**WATER**
Lab Sample ID:	**1205476112**				
Client Sample:	**QC for batch 2469789**	**Client:**	**TRCI001**	**Project:**	**TRCI00123**
Client ID:	**LCS for batch 2469789**	**Method:**	**SW846 3510C/8270E**	**SOP Ref:**	**GL-OA-E-009**
Batch ID:	**2469792**	**Inst:**	**MSD4.I**	**Dilution:**	**1**
Run Date:	**08/03/2023 11:26**	**Analyst:**	**NM1**	**Inj. Vol:**	**1 uL**
Prep Date:	**08/02/2023 12:36**	**Aliquot:**	**1000 mL**	**Final Volume:**	**1 mL**
Data File:	**S080323\s4H0309.D**	**Column:**	**DB-5ms**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	Dimethylphthalate		43.0	ug/L	0.300	1.00
117-84-0	Di-n-octylphthalate		40.8	ug/L	0.300	1.00
70-30-4	Hexachlorophene	U	167	ug/L	167	500

Quantitation Report

08/04/2023

Data Path : C:\msdchem\1\data\S080323\
Data File : s4H0309.D
Acq On : 03 Aug 2023 11:26
Operator : NM1
Sample : |1205476112|2469792|1|SVM|1|LCS|||
Misc : |MSD1C70E_L|WATER|QC A|mix[a,b,j,d,e]||
ALS Vial : 8 Sample Multiplier: 1

08/04/2023

Quant Time: Aug 04 09:13:00 2023
Quant Method : C:\msdchem\1\data\S080323\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:54:56 2023
Response via : Initial Calibration

Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	Dev(Min)
Internal Standards								
1) A 1,4-Dichlorobenzene-d4	152	4.377	4.377	1.000	181618	40.00	ng/uL	0.00
22) A Naphthalene-d8	136	5.752	5.752	1.000	774578	40.00	ng/uL	0.00
39) A Acenaphthene-d10	164	7.421	7.426	1.000	379640	40.00	ng/uL	0.00
64) A Phenanthrene-d10	188	8.715	8.720	1.000	774567	40.00	ng/uL	0.00
80) A Chrysene-d12	240	11.250	11.255	1.000	919129	40.00	ng/uL	0.00
88) A Perylene-d12	264	13.679	13.684	1.000	1042289	40.00	ng/uL	0.00
96) B 1,4-Dichlorobenzene-d4	152	4.377	4.377	1.000	181618	40.00	ng/uL	0.00
112) B Naphthalene-d8	136	5.752	5.752	1.000	774578	40.00	ng/uL	0.00
120) B Acenaphthene-d10	164	7.421	7.426	1.000	379640	40.00	ng/uL	0.00
129) B Phenanthrene-d10	188	8.715	8.720	1.000	774567	40.00	ng/uL	0.00
142) B Chrysene-d12	240	11.250	11.255	1.000	919129	40.00	ng/uL	0.00
148) B Perylene-d12	264	13.679	13.684	1.000	1042289	40.00	ng/uL	0.00
151) J Naphthalene-d8	136	5.752	5.752	1.000	774578	40.00	ng/uL	0.00
153) J Phenanthrene-d10	188	8.715	8.720	1.000	774567	40.00	ng/uL	0.00
156) J Chrysene-d12	240	11.250	11.255	1.000	919129	40.00	ng/uL	0.00
159) D Naphthalene-d8	136	5.752	5.752	1.000	774578	40.00	ng/uL	0.00
161) D Acenaphthene-d10	164	7.421	7.426	1.000	379640	40.00	ng/uL	0.00
164) D Phenanthrene-d10	188	8.715	8.720	1.000	774567	40.00	ng/uL	0.00
171) D Chrysene-d12	240	11.250	11.255	1.000	919129	40.00	ng/uL	0.00
173) E Naphthalene-d8	136	5.752	5.752	1.000	774578	40.00	ng/uL	0.00
175) E Perylene-d12	264	13.679	13.684	1.000	1042294	40.00	ng/uL	0.00
System Monitoring Compounds								Dev(Min)
5) 2-Fluorophenol	112	3.078	3.083	0.703	205432	36.39	ng/uL	0.00
8) Phenol-d5	99	3.971	3.971	0.907	192144	27.52	ng/uL	0.00
23) Nitrobenzene-d5	82	4.982	4.987	0.866	219898	33.87	ng/uL	0.00
44) 2-Fluorobiphenyl	172	6.800	6.800	0.916	525308	37.34	ng/uL	0.00
63) 2,4,6-Tribromophenol	330	8.116	8.116	1.094	294542	85.39	ng/uL	0.00
79) p-Terphenyl-d14	244	10.058	10.057	1.154	778134	36.92	ng/uL	0.00

Compound	Amount	Range	Recovery
5) 2-Fluorophenol	100.000	11 - 79	36%
8) Phenol-d5	100.000	15 - 85	28%
23) Nitrobenzene-d5	50.000	39 - 112	68%
44) 2-Fluorobiphenyl	50.000	39 - 112	75%
63) 2,4,6-Tribromophenol	100.000	37 - 132	85%
79) p-Terphenyl-d14	50.000	24 - 129	74%

Target Compounds	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	QValue
3) N-Methyl-N-nitrosometh...	74	2.008	2.008	0.459	92858	25.40	ng/uL	98
4) Pyridine	79	2.051	2.050	0.468	127455	20.38	ng/uL	99
7) Aniline	93	4.024	4.024	0.919	253189	29.21	ng/uL	99
9) Phenol	94	3.987	3.987	0.911	110860	14.71	ng/uL	95
10) bis(2-Chloroethyl) ether	93	4.078	4.078	0.932	213011	36.30	ng/uL	99
11) 2-Chlorophenol	128	4.158	4.158	0.950	188087	29.33	ng/uL	99
12) n-Decane	43	4.174	4.174	0.954	126816	23.94	ng/uL	97
13) 1,3-Dichlorobenzene	146	4.318	4.318	0.987	234189	32.78	ng/uL	100
14) 1,4-Dichlorobenzene	146	4.399	4.399	1.005	251334	34.30	ng/uL	98
15) 1,2-Dichlorobenzene	146	4.564	4.564	1.043	237610	34.34	ng/uL	99
16) bis(2-Chloro-1-methyle...	45	4.655	4.661	1.064	242868	35.36	ng/uL	76
17) Benzyl alcohol	108	4.511	4.516	1.031	127208	29.99	ng/uL	95
18) o-Cresol	107	4.639	4.639	1.060	135326	26.42	ng/uL#	84
19) m,p-Cresols	108	4.805	4.810	1.098	148872	24.62	ng/uL#	22
20) N-Nitrosodipropylamine	70	4.800	4.805	1.097	167272	38.56	ng/uL	74
21) Hexachloroethane	117	4.939	4.939	1.128	79409	30.43	ng/uL	99
24) Nitrobenzene	77	5.003	5.008	0.870	235680	36.37	ng/uL	98

Quantitation Report

Data Path : C:\msdchem\1\data\S080323\
Data File : s4H0309.D
Acq On : 03 Aug 2023 11:26
Operator : NM1
Sample : |1205476112|2469792|1|SVM|1|LCS|||
Misc : |MSD1C70E_L|WATER|QC A|mix[a,b,j,d,e]||
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 04 09:13:00 2023
Quant Method : C:\msdchem\1\data\S080323\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:54:56 2023
Response via : Initial Calibration

Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	
25) Isophorone	82	5.260	5.260	0.914	439081	36.98	ng/uL	99
26) 2-Nitrophenol	139	5.345	5.351	0.929	117805	34.86	ng/uL	97
27) 2,4-Dimethylphenol	122	5.388	5.388	0.937	129765	26.57	ng/uL	100
28) bis(2-Chloroethoxy)met...	93	5.484	5.484	0.954	282149	37.67	ng/uL	98
29) 2,4-Dichlorophenol	162	5.607	5.607	0.975	185038	32.92	ng/uL	100
30) Benzoic acid	105	5.463	5.474	0.950	93245	27.11	ng/uL	98
31) 1,2,4-Trichlorobenzene	180	5.688	5.688	0.989	211461	34.51	ng/uL	98
32) alpha-Terpineol	59	5.773	5.773	1.004	176843	35.11	ng/uL	98
33) Naphthalene	128	5.773	5.773	1.004	699411	37.16	ng/uL	100
34) 4-Chloroaniline	127	5.821	5.827	1.012	277851	35.46	ng/uL	98
35) Hexachlorobutadiene	225	5.891	5.891	1.024	115640	31.50	ng/uL	100
36) 4-Chloro-3-methylphenol	107	6.314	6.313	1.098	173121	32.07	ng/uL	99
37) 2-Methylnaphthalene	142	6.458	6.458	1.123	471636	38.40	ng/uL	99
38) 1-Methylnaphthalene	142	6.554	6.554	1.139	465443	38.53	ng/uL	100
40) Hexachlorocyclopentadiene	237	6.602	6.602	0.890	96434	24.80	ng/uL	97
41) 2,3-Dichloroaniline	161	6.725	6.725	0.906	261638	39.05	ng/uL	98
42) 2,4,6-Trichlorophenol	196	6.725	6.725	0.906	155776	38.23	ng/uL	99
43) 2,4,5-Trichlorophenol	196	6.768	6.768	0.912	169992	38.83	ng/uL	99
45) 2-Chloronaphthalene	162	6.918	6.918	0.932	463987	39.59	ng/uL	96
46) o-Nitroaniline	65	7.009	7.009	0.944	128675	40.07	ng/uL	98
48) m-Nitroaniline	138	7.378	7.383	0.994	138450	37.77	ng/uL	100
49) Dimethylphthalate	163	7.164	7.164	0.965	589970	42.95	ng/uL	99
51) 2,6-Dinitrotoluene	165	7.223	7.223	0.973	133520	41.21	ng/uL	99
52) 2,4-Dinitrotoluene	165	7.581	7.581	1.022	185171	42.86	ng/uL	97
53) Acenaphthylene	152	7.298	7.297	0.983	733806	38.33	ng/uL	100
54) Acenaphthene	153	7.453	7.453	1.004	524978	41.77	ng/uL	99
55) 2,4-Dinitrophenol	184	7.469	7.469	1.006	60566	39.27	ng/uL	98
56) Dibenzofuran	168	7.603	7.608	1.025	727911	41.78	ng/uL	99
57) 2,3,4,6-Tetrachlorophenol	232	7.710	7.709	1.039	151622	39.90	ng/uL	98
58) Diethylphthalate	149	7.784	7.784	1.049	610974	44.11	ng/uL	99
59) 4-Nitrophenol	109	7.549	7.544	1.017	28848	17.15	ng/uL	82
60) Fluorene	166	7.907	7.907	1.066	592526	42.36	ng/uL	100
61) 4-Chlorophenylphenylether	204	7.897	7.897	1.064	295560	42.38	ng/uL	99
62) p-Nitroaniline	138	7.918	7.918	1.067	157671	40.74	ng/uL	99
65) 2-Methyl-4,6-dinitroph...	198	7.939	7.939	0.911	99636	45.62	ng/uL	98
66) Diphenylamine	169	7.998	7.998	0.918	504214	41.84	ng/uL	97
67) 1,2-Diphenylhydrazine	77	8.036	8.036	0.922	537200	41.24	ng/uL	99
68) 4-Bromophenylphenylether	248	8.319	8.319	0.955	205221	43.24	ng/uL	100
69) Hexachlorobenzene	284	8.378	8.378	0.961	265470	43.27	ng/uL	99
70) Pentachlorophenol	266	8.549	8.549	0.981	142403	43.77	ng/uL	99
71) n-Octadecane	57	8.571	8.576	0.983	316275	39.55	ng/uL	97
73) Phenanthrene	178	8.736	8.736	1.002	897443	43.51	ng/uL	100
74) Anthracene	178	8.779	8.784	1.007	918943	43.93	ng/uL	100
75) Carbazole	167	8.913	8.913	1.023	854124	44.54	ng/uL	100
76) Di-n-butylphthalate	149	9.170	9.169	1.052	1036117	44.43	ng/uL	100
77) Fluoranthene	202	9.747	9.747	1.118	1030760	45.40	ng/uL	99
78) Pyrene	202	9.945	9.945	1.141	1085451	45.53	ng/uL	99
81) Butylbenzylphthalate	149	10.523	10.523	0.935	459075	42.84	ng/uL	98
82) bis(2-Ethylhexyl)phtha...	149	11.202	11.202	0.996	666247	41.19	ng/uL	94
83) Benzo(a)anthracene	228	11.240	11.239	0.999	1096088	42.13	ng/uL	99
84) Chrysene	228	11.288	11.288	1.003	1075665	45.88	ng/uL	99
87) Di-n-octylphthalate	149	12.208	12.208	1.085	1083635	40.78	ng/uL	99
89) Benzo(b)fluoranthene	252	12.940	12.946	0.946	1219649	43.63	ng/uL	99
90) Benzo(k)fluoranthene	252	12.994	12.994	0.950	1155462	43.98	ng/uL	99
91) Benzo(a)pyrene	252	13.566	13.571	0.992	1061983	43.37	ng/uL	99
92) Indeno(1,2,3-cd)pyrene	276	16.011	16.010	1.170	1214637	41.70	ng/uL	99
93) Dibenzo(a,h)anthracene	278	16.069	16.069	1.175	1197468	41.29	ng/uL	99

Data Path : C:\msdchem\1\data\S080323\
Data File : s4H0309.D
Acq On : 03 Aug 2023 11:26
Operator : NM1
Sample : |1205476112|2469792|1|SVM|1|LCS|||
Misc : |MSD1C70E_L|WATER|QC A|mix[a,b,j,d,e]||
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 04 09:13:00 2023
Quant Method : C:\msdchem\1\data\S080323\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:54:56 2023
Response via : Initial Calibration

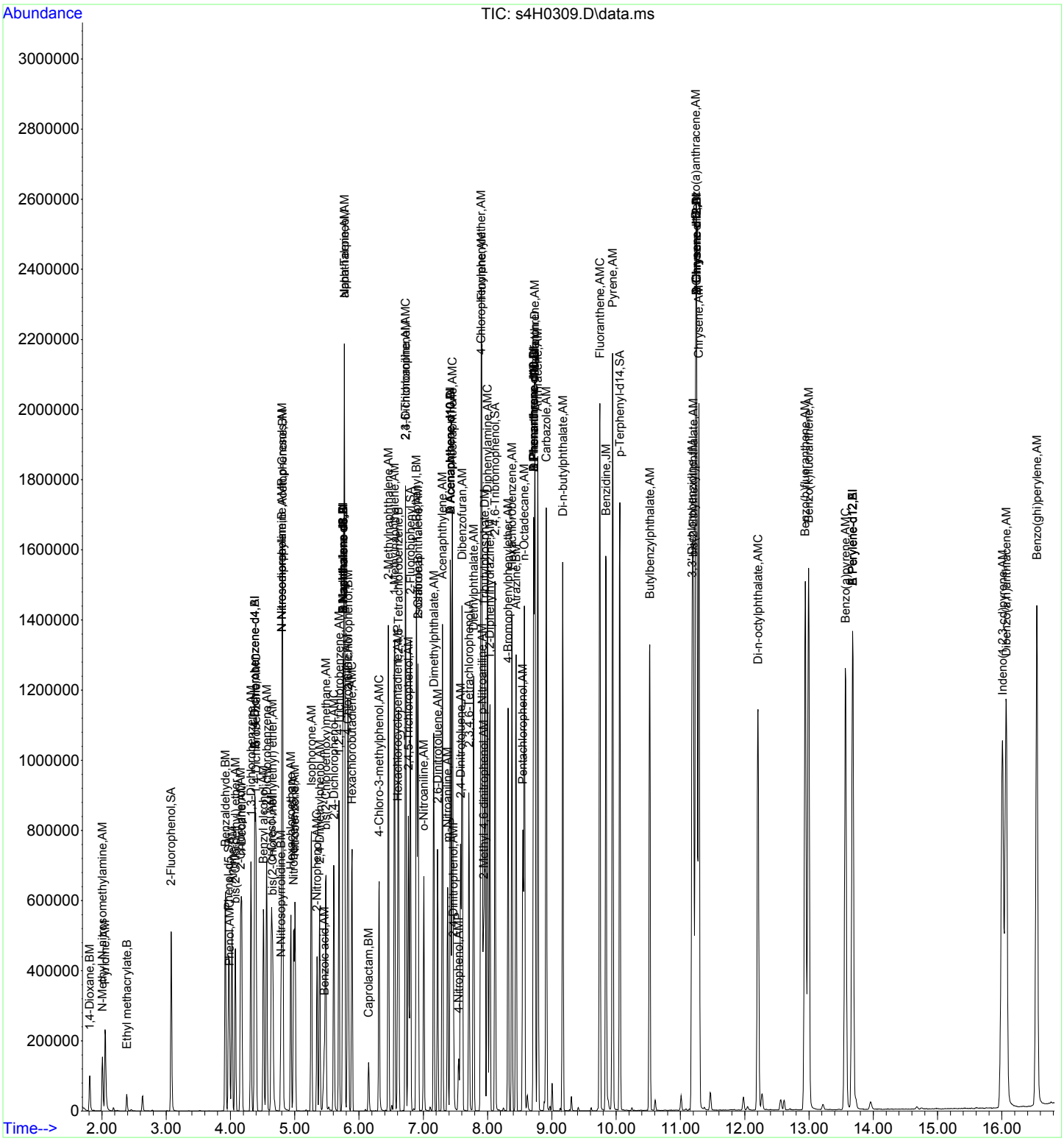
	Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	
94)	Benzo(ghi)perylene	276	16.545	16.545	1.210	1271328	44.69	ng/uL	99
97)	1,4-Dioxane	88	1.810	1.810	0.413	51655	20.25	ng/uL	99
99)	Ethyl methacrylate	69	2.388	2.318	0.545	16504	3.10	ng/uL#	81
106)	Benzaldehyde	77	3.923	3.923	0.896	167428	34.45	ng/uL	99
108)	N-Nitrosopyrrolidine	100	4.784	4.784	1.093	105319	33.25	ng/uL#	35
109)	Acetophenone	105	4.811	4.810	1.099	340674	36.91	ng/uL	84
110)	N-Nitrosomorpholine	56	4.800	4.826	1.097	10331	3.56	ng/uL#	34
115)	2,6-Dichlorophenol	162	5.832	5.832	1.014	187435	31.07	ng/uL	99
117)	Caprolactam	113	6.148	6.148	1.069	20301	10.35	ng/uL	80
121)	1,2,4,5-Tetrachloroben...	216	6.613	6.613	0.891	235167	36.23	ng/uL	99
122)	1,1-Biphenyl	154	6.891	6.896	0.929	607289	38.37	ng/uL	99
123)	Isosafrole	162	6.918	6.854	0.932	453145	83.50	ng/uL#	36
135)	Atrazine	200	8.442	8.442	0.969	208504	48.52	ng/uL	100
155)	Benzidine	184	9.844	9.843	1.129	827918	47.39	ng/uL	100
158)	3,3'-Dichlorobenzidine	252	11.181	11.181	0.994	437743	37.24	ng/uL	100
163)	Tributylphosphate	99	7.956	7.955	1.072	695355	43.86	ng/uL	99
168)	Disulfoton	88	8.736	8.688	1.002	70420	9.69	ng/uL#	17

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(A) = Over the calibration range (d) = deleted

Quantitation Report

Data Path : C:\msdchem\1\data\S080323\
Data File : s4H0309.D
Acq On : 03 Aug 2023 11:26
Operator : NM1
Sample : |1205476112|2469792|1|SVM|1|LCS|||
Misc : |MSD1C70E_L|WATER|QC A|mix[a,b,j,d,e]||
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 04 09:13:00 2023
Quant Method : C:\msdchem\1\data\S080323\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:54:56 2023
Response via : Initial Calibration



Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**631221**	**Date Collected:**	**08/02/2023 11:00**	**Matrix:**	**GROUND WATER**
Lab Sample ID:	**1205481843**	**Date Received:**	**08/03/2023 10:30**		
Client Sample:	**QC for batch 2472650**	**Client:**	**TRCI001**	**Project:**	**TRCI00123**
Client ID:	**FHRCRAPOC_02445MS**	**Method:**	**SW846 3510C/8270E**	**SOP Ref:**	**GL-OA-E-009**
Batch ID:	**2472650**	**Inst:**	**MSD3.I**	**Dilution:**	**1**
Run Date:	**08/09/2023 20:01**	**Analyst:**	**MU1**	**Inj. Vol:**	**1 uL**
Prep Date:	**08/09/2023 12:16**	**Aliquot:**	**445 mL**	**Final Volume:**	**1 mL**
Data File:	**S080923.S\s3H0911.D**	**Column:**	**DB-5ms**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	Dimethylphthalate		81.9	ug/L	0.674	2.25
117-84-0	Di-n-octylphthalate		93.8	ug/L	0.674	2.25
70-30-4	Hexachlorophene	U	375	ug/L	375	1120

Quantitation Report

08/10/2023

Data Path : C:\msdchem\1\data\S080923.S\
Data File : s3H0911.D
Acq On : 09 Aug 2023 20:01
Operator : MU1
Sample : |1205481843|2472650|1|SVM|1|MS|||
Misc : |MSD1C70E_L|GROUND WATER|QC A|mix[a,b,j,d,e]||
ALS Vial : 11 Sample Multiplier: 1

08/10/2023

Quant Time: Aug 10 09:18:58 2023
Quant Method : C:\msdchem\1\data\S080923.S\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:34:09 2023
Response via : Initial Calibration

Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	Dev(Min)
Internal Standards								
1) A 1,4-Dichlorobenzene-d4	152	4.109	4.107	1.000	123801	40.00	ng/uL	0.00
22) A Naphthalene-d8	136	5.528	5.525	1.000	508942	40.00	ng/uL	0.00
39) A Acenaphthene-d10	164	7.261	7.259	1.000	255573	40.00	ng/uL	0.00
64) A Phenanthrene-d10	188	8.561	8.559	1.000	516445	40.00	ng/uL	0.00
80) A Chrysene-d12	240	10.963	10.958	1.000	551095	40.00	ng/uL	0.00
88) A Perylene-d12	264	13.151	13.154	1.000	565820	40.00	ng/uL	0.00
96) B 1,4-Dichlorobenzene-d4	152	4.109	4.107	1.000	123801	40.00	ng/uL	0.00
112) B Naphthalene-d8	136	5.528	5.525	1.000	508942	40.00	ng/uL	0.00
120) B Acenaphthene-d10	164	7.261	7.259	1.000	255573	40.00	ng/uL	0.00
129) B Phenanthrene-d10	188	8.561	8.559	1.000	516445	40.00	ng/uL	0.00
142) B Chrysene-d12	240	10.963	10.958	1.000	551095	40.00	ng/uL	0.00
148) B Perylene-d12	264	13.151	13.154	1.000	565820	40.00	ng/uL	0.00
151) J Naphthalene-d8	136	5.528	5.525	1.000	508942	40.00	ng/uL	0.00
153) J Phenanthrene-d10	188	8.561	8.559	1.000	516445	40.00	ng/uL	0.00
156) J Chrysene-d12	240	10.963	10.958	1.000	551095	40.00	ng/uL	0.00
159) D Naphthalene-d8	136	5.528	5.525	1.000	508942	40.00	ng/uL	0.00
161) D Acenaphthene-d10	164	7.261	7.259	1.000	255573	40.00	ng/uL	0.00
164) D Phenanthrene-d10	188	8.561	8.559	1.000	516445	40.00	ng/uL	0.00
171) D Chrysene-d12	240	10.963	10.958	1.000	551095	40.00	ng/uL	0.00
173) E Naphthalene-d8	136	5.528	5.525	1.000	508942	40.00	ng/uL	0.00
175) E Perylene-d12	264	13.151	13.154	1.000	565820	40.00	ng/uL	0.00
System Monitoring Compounds								Dev(Min)
5) 2-Fluorophenol	112	2.802	2.803	0.682	193963	45.93	ng/uL	0.00
8) Phenol-d5	99	3.678	3.680	0.895	208485	41.14	ng/uL	0.00
23) Nitrobenzene-d5	82	4.713	4.712	0.853	158749	32.28	ng/uL	0.00
44) 2-Fluorobiphenyl	172	6.628	6.627	0.913	324861	31.86	ng/uL	0.00
63) 2,4,6-Tribromophenol	330	7.957	7.959	1.096	145825	59.34	ng/uL	0.00
79) p-Terphenyl-d14	244	9.893	9.890	1.156	419759	29.79	ng/uL	0.00

Compound	Amount	Range	Recovery
5) 2-Fluorophenol	100.000	11 - 79	46%
8) Phenol-d5	100.000	15 - 85	41%
23) Nitrobenzene-d5	50.000	39 - 112	65%
44) 2-Fluorobiphenyl	50.000	39 - 112	64%
63) 2,4,6-Tribromophenol	100.000	37 - 132	59%
79) p-Terphenyl-d14	50.000	24 - 129	60%

Target Compounds	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	QValue
3) N-Methyl-N-nitrosometh...	74	1.797	1.797	0.437	81851	29.56	ng/uL#	59
4) Pyridine	79	1.838	1.840	0.447	123400	25.69	ng/uL	67
7) Aniline	93	3.757	3.760	0.914	206004	33.50	ng/uL	91
9) Phenol	94	3.693	3.696	0.899	121733	22.28	ng/uL	83
10) bis(2-Chloroethyl) ether	93	3.816	3.819	0.929	144266	32.49	ng/uL	84
11) 2-Chlorophenol	128	3.880	3.878	0.944	135448	30.36	ng/uL	89
12) n-Decane	43	3.924	3.926	0.955	118142	18.03	ng/uL	88
13) 1,3-Dichlorobenzene	146	4.050	4.049	0.986	127582	24.93	ng/uL	99
14) 1,4-Dichlorobenzene	146	4.129	4.129	1.005	138334	26.40	ng/uL	99
15) 1,2-Dichlorobenzene	146	4.294	4.295	1.045	131971	26.52	ng/uL	98
16) bis(2-Chloro-1-methyle...	45	4.396	4.397	1.070	305648	36.02	ng/uL	83
17) Benzyl alcohol	108	4.241	4.242	1.032	100437	34.65	ng/uL	92
18) o-Cresol	107	4.349	4.348	1.059	118829	32.73	ng/uL	98
19) m,p-Cresols	108	4.519	4.525	1.100	139624	32.89	ng/uL	89
20) N-Nitrosodipropylamine	70	4.540	4.541	1.105	124775	38.53	ng/uL	66
21) Hexachloroethane	117	4.669	4.669	1.136	45310	22.24	ng/uL	98
24) Nitrobenzene	77	4.736	4.739	0.857	176083	34.69	ng/uL	94

Quantitation Report

Data Path : C:\msdchem\1\data\S080923.S\
Data File : s3H0911.D
Acq On : 09 Aug 2023 20:01
Operator : MU1
Sample : |1205481843|2472650|1|SVM|1|MS|||
Misc : |MSD1C70E_L|GROUND WATER|QC A|mix[a,b,j,d,e]||
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 10 09:18:58 2023
Quant Method : C:\msdchem\1\data\S080923.S\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:34:09 2023
Response via : Initial Calibration

Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	
25) Isophorone	82	5.009	5.006	0.906	325482	37.24	ng/uL	98
26) 2-Nitrophenol	139	5.100	5.097	0.923	71066	31.69	ng/uL	86
27) 2,4-Dimethylphenol	122	5.138	5.135	0.929	99372	30.30	ng/uL	95
28) bis(2-Chloroethoxy)met...	93	5.255	5.258	0.951	201945	35.31	ng/uL	99
29) 2,4-Dichlorophenol	162	5.361	5.359	0.970	129031	32.71	ng/uL	99
30) Benzoic acid	105	5.220	5.226	0.944	122336	38.03	ng/uL	96
31) 1,2,4-Trichlorobenzene	180	5.464	5.466	0.988	118240	26.58	ng/uL	96
32) alpha-Terpineol	59	5.560	5.557	1.006	181663	36.95	ng/uL	80
33) Naphthalene	128	5.552	5.552	1.004	434537	31.09	ng/uL	100
34) 4-Chloroaniline	127	5.604	5.605	1.014	195383	35.31	ng/uL	92
35) Hexachlorobutadiene	225	5.684	5.686	1.028	59669	22.01	ng/uL	99
36) 4-Chloro-3-methylphenol	107	6.106	6.103	1.104	147400	37.34	ng/uL	95
37) 2-Methylnaphthalene	142	6.270	6.269	1.134	282515	31.63	ng/uL	99
38) 1-Methylnaphthalene	142	6.367	6.365	1.152	279216	32.20	ng/uL	98
40) Hexachlorocyclopentadiene	237	6.425	6.424	0.885	65105	22.34	ng/uL	96
41) 2,3-Dichloroaniline	161	6.543	6.541	0.901	167260	34.32	ng/uL	98
42) 2,4,6-Trichlorophenol	196	6.543	6.541	0.901	102816	33.31	ng/uL	100
43) 2,4,5-Trichlorophenol	196	6.572	6.568	0.905	111407	35.76	ng/uL	99
45) 2-Chloronaphthalene	162	6.742	6.739	0.929	287922	31.98	ng/uL	99
46) o-Nitroaniline	65	6.836	6.836	0.941	111396	42.01	ng/uL	82
48) m-Nitroaniline	138	7.214	7.215	0.994	89646	37.57	ng/uL	93
49) Dimethylphthalate	163	7.006	7.007	0.965	367113	36.44	ng/uL	100
51) 2,6-Dinitrotoluene	165	7.062	7.060	0.973	73159	34.60	ng/uL	81
52) 2,4-Dinitrotoluene	165	7.426	7.424	1.023	102130	35.98	ng/uL	90
53) Acenaphthylene	152	7.132	7.130	0.982	450048	32.61	ng/uL	99
54) Acenaphthene	154	7.291	7.290	1.004	290225	33.27	ng/uL	97
55) 2,4-Dinitrophenol	184	7.308	7.306	1.006	40086	31.51	ng/uL	95
56) Dibenzofuran	168	7.446	7.445	1.025	444055	36.34	ng/uL	99
57) 2,3,4,6-Tetrachlorophenol	232	7.549	7.510	1.040	90390	32.06	ng/uL	97
58) Diethylphthalate	149	7.643	7.643	1.053	395378	38.28	ng/uL	100
59) 4-Nitrophenol	109	7.349	7.349	1.012	36804	25.08	ng/uL	85
60) Fluorene	166	7.748	7.750	1.067	362567	35.21	ng/uL	99
61) 4-Chlorophenylphenylether	204	7.748	7.745	1.067	173408	35.29	ng/uL	99
62) p-Nitroaniline	138	7.757	7.756	1.068	94722	39.10	ng/uL	90
65) 2-Methyl-4,6-dinitroph...	198	7.783	7.782	0.909	56959	37.03	ng/uL	77
66) Diphenylamine	169	7.848	7.847	0.917	308297	36.32	ng/uL	95
67) 1,2-Diphenylhydrazine	77	7.886	7.884	0.921	434339	41.75	ng/uL	96
68) 4-Bromophenylphenylether	248	8.171	8.173	0.954	108912	33.33	ng/uL	98
69) Hexachlorobenzene	284	8.226	8.226	0.961	135075	31.42	ng/uL	99
70) Pentachlorophenol	266	8.391	8.387	0.980	86931	37.23	ng/uL	99
71) n-Octadecane	57	8.447	8.446	0.987	343222	40.74	ng/uL	85
73) Phenanthrene	178	8.582	8.579	1.002	522896	34.06	ng/uL	100
74) Anthracene	178	8.626	8.622	1.008	533598	35.54	ng/uL	100
75) Carbazole	167	8.755	8.756	1.023	503523	37.46	ng/uL	99
76) Di-n-butylphthalate	149	9.033	9.029	1.055	640014	39.04	ng/uL	99
77) Fluoranthene	202	9.584	9.585	1.120	576924	35.20	ng/uL	98
78) Pyrene	202	9.778	9.777	1.142	616585	35.57	ng/uL	99
81) Butylbenzylphthalate	149	10.324	10.323	0.942	262750	42.43	ng/uL	94
82) bis(2-Ethylhexyl)phtha...	149	10.942	10.943	0.998	408542	40.09	ng/uL	98
83) Benzo(a)anthracene	228	10.951	10.949	0.999	603347	34.65	ng/uL	99
84) Chrysene	228	10.995	10.997	1.003	581795	36.55	ng/uL	98
87) Di-n-octylphthalate	149	11.849	11.847	1.081	612460	41.75	ng/uL	85
89) Benzo(b)fluoranthene	252	12.482	12.484	0.949	588927	35.73	ng/uL	98
90) Benzo(k)fluoranthene	252	12.530	12.532	0.953	570912	36.81	ng/uL	98
91) Benzo(a)pyrene	252	13.049	13.051	0.992	508472	36.84	ng/uL	98
92) Indeno(1,2,3-cd)pyrene	276	15.283	15.286	1.162	532463	34.98	ng/uL	96
93) Dibenzo(a,h)anthracene	278	15.339	15.345	1.166	552541	33.06	ng/uL	97

Quantitation Report

Data Path : C:\msdchem\1\data\S080923.S\
Data File : s3H0911.D
Acq On : 09 Aug 2023 20:01
Operator : MU1
Sample : |1205481843|2472650|1|SVM|1|MS|||
Misc : |MSD1C70E_L|GROUND WATER|QC A|mix[a,b,j,d,e]||
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 10 09:18:58 2023
Quant Method : C:\msdchem\1\data\S080923.S\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:34:09 2023
Response via : Initial Calibration

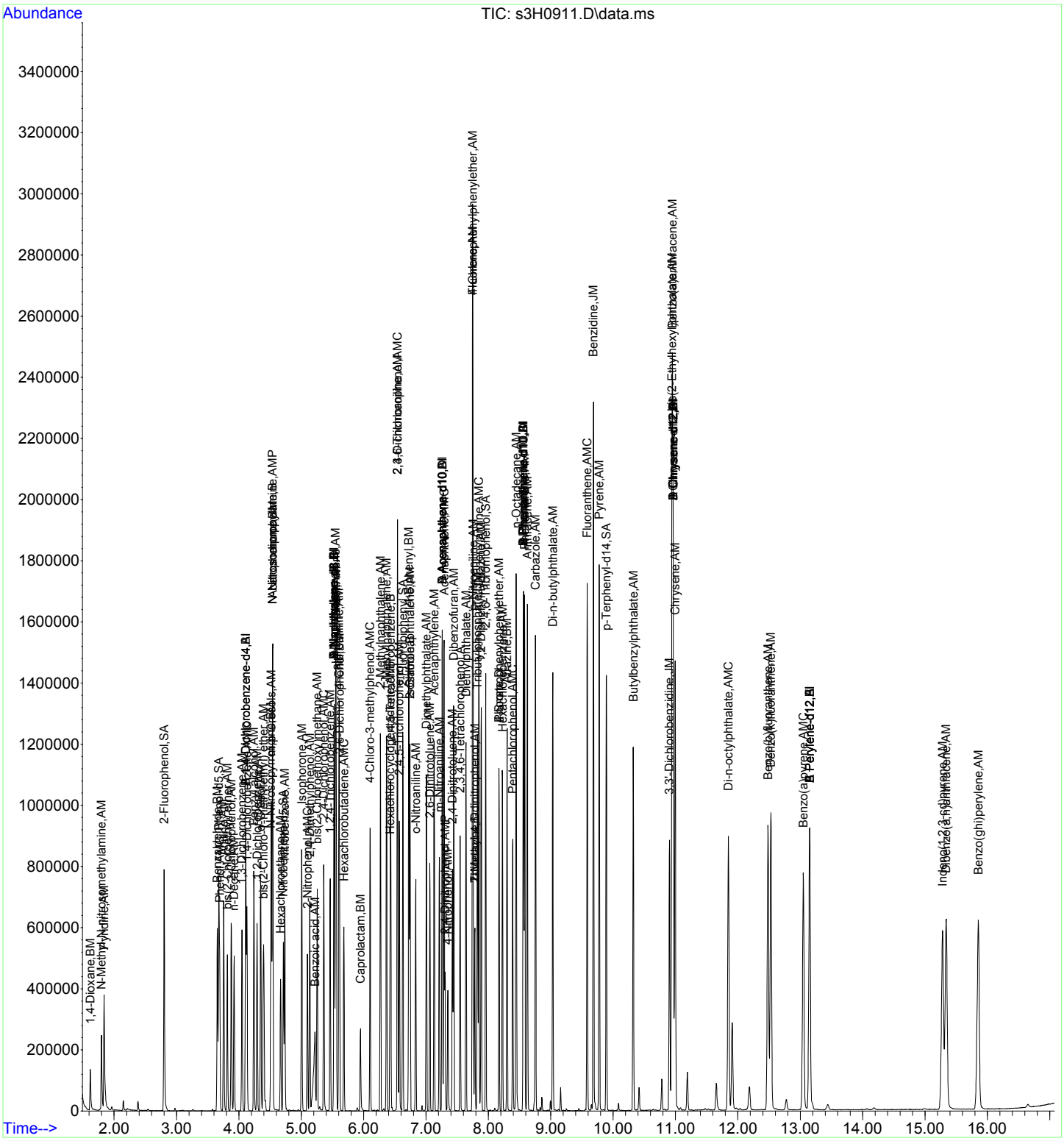
	Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	
94)	Benzo(ghi)perylene	276	15.855	15.864	1.206	572375	34.89	ng/uL	96
97)	1,4-Dioxane	88	1.618	1.618	0.394	42782	22.19	ng/uL	94
106)	Benzaldehyde	77	3.654	3.658	0.889	113520	32.52	ng/uL	98
108)	N-Nitrosopyrrolidine	100	4.513	4.513	1.098	70335	33.83	ng/uL	91
109)	Acetophenone	105	4.543	4.542	1.106	237258	33.69	ng/uL	96
110)	N-Nitrosomorpholine	56	4.540	4.560	1.105	11074	3.36	ng/uL#	48
115)	2,6-Dichlorophenol	162	5.613	5.612	1.015	129422	33.63	ng/uL	96
117)	Caprolactam	113	5.950	5.947	1.076	19532	16.99	ng/uL#	81
121)	1,2,4,5-Tetrachloroben...	216	6.434	6.433	0.886	134233	31.71	ng/uL	99
122)	1,1-Biphenyl	154	6.725	6.723	0.926	367811	34.00	ng/uL	99
123)	Isosafrole	162	6.742	6.688	0.929	287922	81.50	ng/uL#	31
135)	Atrazine	200	8.300	8.298	0.969	111275	45.63	ng/uL	97
155)	Benzidine	184	9.684	9.681	1.131	717084	68.56	ng/uL	99
158)	3,3'-Dichlorobenzidine	252	10.904	10.903	0.995	207349	31.62	ng/uL	98
162)	Thionazine	107	7.783	7.710	1.072	5846	3.60	ng/uL#	1
163)	Tributylphosphate	99	7.825	7.822	1.078	452186	40.22	ng/uL	98
166)	Phorate	75	8.171	8.103	0.954	20486	3.14	ng/uL#	48

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(A) = Over the calibration range (d) = deleted

Quantitation Report

Data Path : C:\msdchem\1\data\S080923.S\
Data File : s3H0911.D
Acq On : 09 Aug 2023 20:01
Operator : MU1
Sample : |1205481843|2472650|1|SVM|1|MS|||
Misc : |MSD1C70E_L|GROUND WATER|QC A|mix[a,b,j,d,e]||
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 10 09:18:58 2023
Quant Method : C:\msdchem\1\data\S080923.S\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:34:09 2023
Response via : Initial Calibration



Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**631221**	**Date Collected:**	**07/27/2023 09:55**	**Matrix:**	**GROUND WATER**
Lab Sample ID:	**1205476115**	**Date Received:**	**07/28/2023 09:30**		
Client Sample:	**QC for batch 2469789**	**Client:**	**TRCI001**	**Project:**	**TRCI00123**
Client ID:	**16WC1AMS**	**Method:**	**SW846 3510C/8270E**	**SOP Ref:**	**GL-OA-E-009**
Batch ID:	**2469792**	**Inst:**	**MSD4.I**	**Dilution:**	**1**
Run Date:	**08/03/2023 14:18**	**Analyst:**	**NM1**	**Inj. Vol:**	**1 uL**
Prep Date:	**08/02/2023 12:36**	**Aliquot:**	**500 mL**	**Final Volume:**	**1 mL**
Data File:	**S080323\s4H0317.D**	**Column:**	**DB-5ms**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	Dimethylphthalate		81.7	ug/L	0.600	2.00
117-84-0	Di-n-octylphthalate		77.5	ug/L	0.600	2.00
70-30-4	Hexachlorophene	U	334	ug/L	334	1000

Quantitation Report

08/04/2023

Data Path : C:\msdchem\1\data\S080323\
Data File : s4H0317.D
Acq On : 03 Aug 2023 14:18
Operator : NM1
Sample : |1205476115|2469792|1|SVM|1|MS|||
Misc : |MSD1C70E_L|GROUND WATER|QC A|mix[a,b,j,d,e]||
ALS Vial : 16 Sample Multiplier: 1

08/04/2023

Quant Time: Aug 04 09:15:06 2023
Quant Method : C:\msdchem\1\data\S080323\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:54:56 2023
Response via : Initial Calibration

Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	Dev(Min)
Internal Standards								
1) A 1,4-Dichlorobenzene-d4	152	4.377	4.377	1.000	192217	40.00	ng/uL	0.00
22) A Naphthalene-d8	136	5.752	5.752	1.000	840019	40.00	ng/uL	0.00
39) A Acenaphthene-d10	164	7.421	7.426	1.000	416889	40.00	ng/uL	0.00
64) A Phenanthrene-d10	188	8.715	8.720	1.000	861902	40.00	ng/uL	0.00
80) A Chrysene-d12	240	11.256	11.255	1.000	1015806	40.00	ng/uL	0.00
88) A Perylene-d12	264	13.684	13.684	1.000	1144503	40.00	ng/uL	0.00
96) B 1,4-Dichlorobenzene-d4	152	4.377	4.377	1.000	192217	40.00	ng/uL	0.00
112) B Naphthalene-d8	136	5.752	5.752	1.000	840019	40.00	ng/uL	0.00
120) B Acenaphthene-d10	164	7.421	7.426	1.000	416889	40.00	ng/uL	0.00
129) B Phenanthrene-d10	188	8.715	8.720	1.000	861902	40.00	ng/uL	0.00
142) B Chrysene-d12	240	11.256	11.255	1.000	1015806	40.00	ng/uL	0.00
148) B Perylene-d12	264	13.684	13.684	1.000	1144503	40.00	ng/uL	0.00
151) J Naphthalene-d8	136	5.752	5.752	1.000	840019	40.00	ng/uL	0.00
153) J Phenanthrene-d10	188	8.715	8.720	1.000	861902	40.00	ng/uL	0.00
156) J Chrysene-d12	240	11.256	11.255	1.000	1015806	40.00	ng/uL	0.00
159) D Naphthalene-d8	136	5.752	5.752	1.000	840019	40.00	ng/uL	0.00
161) D Acenaphthene-d10	164	7.421	7.426	1.000	416889	40.00	ng/uL	0.00
164) D Phenanthrene-d10	188	8.715	8.720	1.000	861902	40.00	ng/uL	0.00
171) D Chrysene-d12	240	11.256	11.255	1.000	1015806	40.00	ng/uL	0.00
173) E Naphthalene-d8	136	5.752	5.752	1.000	840019	40.00	ng/uL	0.00
175) E Perylene-d12	264	13.684	13.684	1.000	1144503	40.00	ng/uL	0.00
System Monitoring Compounds								Dev(Min)
5) 2-Fluorophenol	112	3.078	3.083	0.703	304027	50.89	ng/uL	0.00
8) Phenol-d5	99	3.971	3.971	0.907	320290	43.34	ng/uL	0.00
23) Nitrobenzene-d5	82	4.982	4.987	0.866	218327	31.01	ng/uL	0.00
44) 2-Fluorobiphenyl	172	6.800	6.800	0.916	548500	35.50	ng/uL	0.00
63) 2,4,6-Tribromophenol	330	8.116	8.116	1.094	322011	85.01	ng/uL	0.00
79) p-Terphenyl-d14	244	10.057	10.057	1.154	855592	36.48	ng/uL	0.00

Compound	Amount	Range	Recovery
5) 2-Fluorophenol	100.000	11 - 79	51%
8) Phenol-d5	100.000	15 - 85	43%
23) Nitrobenzene-d5	50.000	39 - 112	62%
44) 2-Fluorobiphenyl	50.000	39 - 112	71%
63) 2,4,6-Tribromophenol	100.000	37 - 132	85%
79) p-Terphenyl-d14	50.000	24 - 129	73%

Target Compounds	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	QValue
3) N-Methyl-N-nitrosometh...	74	2.008	2.008	0.459	123383	31.89	ng/uL	99
4) Pyridine	79	2.051	2.050	0.468	154280	23.31	ng/uL	99
7) Aniline	93	4.024	4.024	0.919	291839	31.81	ng/uL	99
9) Phenol	94	3.987	3.987	0.911	178448	22.38	ng/uL	96
10) bis(2-Chloroethyl) ether	93	4.078	4.078	0.932	207879	33.47	ng/uL	99
11) 2-Chlorophenol	128	4.158	4.158	0.950	222075	32.73	ng/uL	99
12) n-Decane	43	4.174	4.174	0.954	127175	22.68	ng/uL	96
13) 1,3-Dichlorobenzene	146	4.318	4.318	0.987	217707	28.79	ng/uL	98
14) 1,4-Dichlorobenzene	146	4.399	4.399	1.005	236261	30.47	ng/uL	99
15) 1,2-Dichlorobenzene	146	4.564	4.564	1.043	219282	29.94	ng/uL	100
16) bis(2-Chloro-1-methyle...	45	4.655	4.661	1.064	236534	32.54	ng/uL#	70
17) Benzyl alcohol	108	4.511	4.516	1.031	152929	34.06	ng/uL	96
18) o-Cresol	107	4.639	4.639	1.060	178737	32.98	ng/uL	90
19) m,p-Cresols	108	4.805	4.810	1.098	203932	31.87	ng/uL#	40
20) N-Nitrosodipropylamine	70	4.800	4.805	1.097	170149	37.06	ng/uL	71
21) Hexachloroethane	117	4.939	4.939	1.128	75634	27.39	ng/uL	100
24) Nitrobenzene	77	5.003	5.008	0.870	230547	32.81	ng/uL	100

Quantitation Report

Data Path : C:\msdchem\1\data\S080323\
Data File : s4H0317.D
Acq On : 03 Aug 2023 14:18
Operator : NM1
Sample : |1205476115|2469792|1|SVM|1|MS|||
Misc : |MSD1C70E_L|GROUND WATER|QC A|mix[a,b,j,d,e]||
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 04 09:15:06 2023
Quant Method : C:\msdchem\1\data\S080323\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:54:56 2023
Response via : Initial Calibration

Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	
25) Isophorone	82	5.260	5.260	0.914	452662	35.16	ng/uL	99
26) 2-Nitrophenol	139	5.345	5.351	0.929	123613	33.73	ng/uL	100
27) 2,4-Dimethylphenol	122	5.388	5.388	0.937	155358	29.33	ng/uL	100
28) bis(2-Chloroethoxy)met...	93	5.484	5.484	0.954	280708	34.55	ng/uL	96
29) 2,4-Dichlorophenol	162	5.607	5.607	0.975	212380	34.84	ng/uL	99
30) Benzoic acid	105	5.479	5.474	0.953	212545	49.03	ng/uL	99
31) 1,2,4-Trichlorobenzene	180	5.688	5.688	0.989	203964	30.69	ng/uL	99
32) alpha-Terpineol	59	5.773	5.773	1.004	179117	32.79	ng/uL	97
33) Naphthalene	128	5.773	5.773	1.004	688328	33.72	ng/uL	99
34) 4-Chloroaniline	127	5.821	5.827	1.012	297885	35.06	ng/uL	99
35) Hexachlorobutadiene	225	5.891	5.891	1.024	116087	29.16	ng/uL	99
36) 4-Chloro-3-methylphenol	107	6.313	6.313	1.098	223421	38.16	ng/uL	99
37) 2-Methylnaphthalene	142	6.458	6.458	1.123	476754	35.79	ng/uL	99
38) 1-Methylnaphthalene	142	6.554	6.554	1.139	468046	35.73	ng/uL	100
40) Hexachlorocyclopentadiene	237	6.602	6.602	0.890	48574	11.37	ng/uL	100
41) 2,3-Dichloroaniline	161	6.725	6.725	0.906	265718	36.12	ng/uL	98
42) 2,4,6-Trichlorophenol	196	6.725	6.725	0.906	172238	38.50	ng/uL	99
43) 2,4,5-Trichlorophenol	196	6.768	6.768	0.912	188836	39.28	ng/uL	100
45) 2-Chloronaphthalene	162	6.918	6.918	0.932	473205	36.77	ng/uL	95
46) o-Nitroaniline	65	7.009	7.009	0.944	132343	37.53	ng/uL	100
48) m-Nitroaniline	138	7.378	7.383	0.994	151926	37.74	ng/uL	99
49) Dimethylphthalate	163	7.164	7.164	0.965	616272	40.86	ng/uL	100
51) 2,6-Dinitrotoluene	165	7.223	7.223	0.973	137285	38.59	ng/uL	99
52) 2,4-Dinitrotoluene	165	7.581	7.581	1.022	193534	40.79	ng/uL	96
53) Acenaphthylene	152	7.298	7.297	0.983	725472	34.51	ng/uL	99
54) Acenaphthene	153	7.453	7.453	1.004	536678	38.88	ng/uL	99
55) 2,4-Dinitrophenol	184	7.469	7.469	1.006	71040	41.42	ng/uL	98
56) Dibenzofuran	168	7.602	7.608	1.025	741082	38.74	ng/uL	99
57) 2,3,4,6-Tetrachlorophenol	232	7.709	7.709	1.039	168641	40.41	ng/uL	98
58) Diethylphthalate	149	7.784	7.784	1.049	636423	41.85	ng/uL	99
59) 4-Nitrophenol	109	7.544	7.544	1.017	50373	27.27	ng/uL	86
60) Fluorene	166	7.907	7.907	1.066	614051	39.98	ng/uL	99
61) 4-Chlorophenylphenylether	204	7.897	7.897	1.064	302310	39.47	ng/uL	99
62) p-Nitroaniline	138	7.918	7.918	1.067	171066	40.25	ng/uL	99
65) 2-Methyl-4,6-dinitroph...	198	7.939	7.939	0.911	109930	45.27	ng/uL	98
66) Diphenylamine	169	7.998	7.998	0.918	527073	39.31	ng/uL	99
67) 1,2-Diphenylhydrazine	77	8.036	8.036	0.922	550517	37.98	ng/uL	98
68) 4-Bromophenylphenylether	248	8.319	8.319	0.955	213973	40.51	ng/uL	99
69) Hexachlorobenzene	284	8.378	8.378	0.961	272503	39.91	ng/uL	99
70) Pentachlorophenol	266	8.549	8.549	0.981	155151	42.92	ng/uL	100
71) n-Octadecane	57	8.571	8.576	0.983	335235	37.67	ng/uL	97
73) Phenanthrene	178	8.736	8.736	1.002	920823	40.12	ng/uL	100
74) Anthracene	178	8.779	8.784	1.007	946014	40.64	ng/uL	99
75) Carbazole	167	8.913	8.913	1.023	875999	41.05	ng/uL	100
76) Di-n-butylphthalate	149	9.170	9.169	1.052	1060188	40.86	ng/uL	100
77) Fluoranthene	202	9.747	9.747	1.118	1047397	41.46	ng/uL	99
78) Pyrene	202	9.945	9.945	1.141	1100299	41.47	ng/uL	99
81) Butylbenzylphthalate	149	10.523	10.523	0.935	469199	39.62	ng/uL	99
82) bis(2-Ethylhexyl)phtha...	149	11.202	11.202	0.995	703527	39.36	ng/uL	94
83) Benzo(a)anthracene	228	11.240	11.239	0.999	1134828	39.47	ng/uL	99
84) Chrysene	228	11.288	11.288	1.003	1098623	42.40	ng/uL	99
87) Di-n-octylphthalate	149	12.208	12.208	1.085	1137618	38.74	ng/uL	99
89) Benzo(b)fluoranthene	252	12.946	12.946	0.946	1238400	40.34	ng/uL	99
90) Benzo(k)fluoranthene	252	12.994	12.994	0.950	1211507	42.00	ng/uL	99
91) Benzo(a)pyrene	252	13.572	13.571	0.992	1089694	40.53	ng/uL	99
92) Indeno(1,2,3-cd)pyrene	276	16.011	16.010	1.170	1269035	39.67	ng/uL	99
93) Dibenzo(a,h)anthracene	278	16.069	16.069	1.174	1245271	39.11	ng/uL	99

Quantitation Report

Data Path : C:\msdchem\1\data\S080323\
Data File : s4H0317.D
Acq On : 03 Aug 2023 14:18
Operator : NM1
Sample : |1205476115|2469792|1|SVM|1|MS|||
Misc : |MSD1C70E_L|GROUND WATER|QC A|mix[a,b,j,d,e]||
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 04 09:15:06 2023
Quant Method : C:\msdchem\1\data\S080323\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:54:56 2023
Response via : Initial Calibration

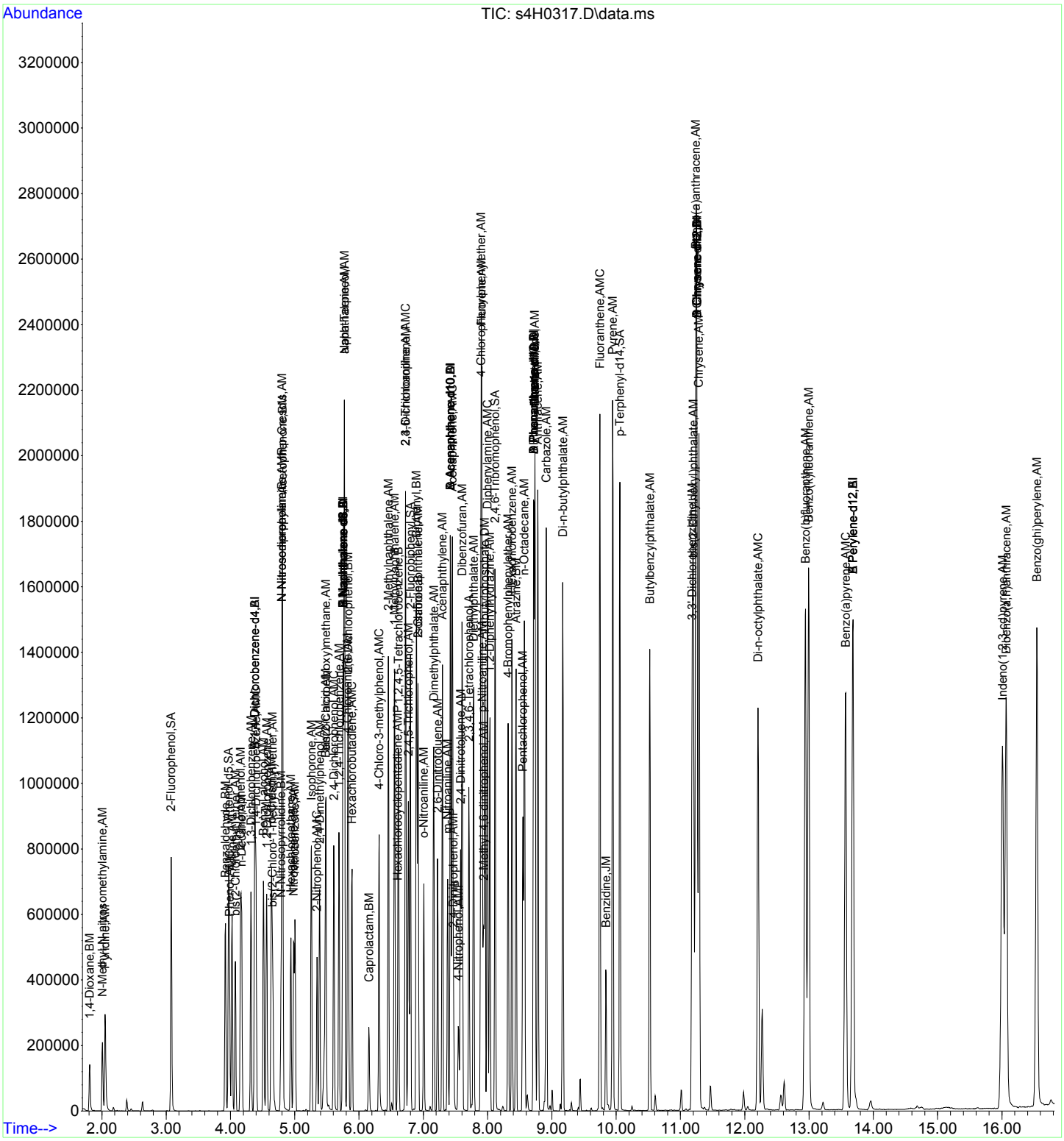
Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	
94) Benzo(ghi)perylene	276	16.545	16.545	1.209	1303789	41.73	ng/uL	99
97) 1,4-Dioxane	88	1.810	1.810	0.413	72564	26.88	ng/uL	99
106) Benzaldehyde	77	3.923	3.923	0.896	154161	29.97	ng/uL	99
108) N-Nitrosopyrrolidine	100	4.789	4.784	1.094	124119	37.03	ng/uL#	45
109) Acetophenone	105	4.810	4.810	1.099	336553	34.45	ng/uL	79
110) N-Nitrosomorpholine	56	4.800	4.826	1.097	10455	3.40	ng/uL#	34
115) 2,6-Dichlorophenol	162	5.832	5.832	1.014	210189	32.12	ng/uL	98
117) Caprolactam	113	6.153	6.148	1.070	39689	18.66	ng/uL#	75
121) 1,2,4,5-Tetrachloroben...	216	6.613	6.613	0.891	240780	33.78	ng/uL	98
122) 1,1-Biphenyl	154	6.891	6.896	0.929	622535	35.82	ng/uL	99
123) Isosafrole	162	6.918	6.854	0.932	463222	77.73	ng/uL#	36
135) Atrazine	200	8.442	8.442	0.969	217508	45.49	ng/uL	99
155) Benzidine	184	9.844	9.843	1.129	239551	12.32	ng/uL	98
158) 3,3'-Dichlorobenzidine	252	11.181	11.181	0.993	434573	33.45	ng/uL	99
163) Tributylphosphate	99	7.955	7.955	1.072	726530	41.73	ng/uL	99
168) Disulfoton	88	8.736	8.688	1.002	71821	8.88	ng/uL#	17

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(A) = Over the calibration range (d) = deleted

Quantitation Report

Data Path : C:\msdchem\1\data\S080323\
Data File : s4H0317.D
Acq On : 03 Aug 2023 14:18
Operator : NM1
Sample : |1205476115|2469792|1|SVM|1|MS|||
Misc : |MSD1C70E_L|GROUND WATER|QC A|mix[a,b,j,d,e]||
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 04 09:15:06 2023
Quant Method : C:\msdchem\1\data\S080323\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:54:56 2023
Response via : Initial Calibration



Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**631221**	**Date Collected:**	**08/02/2023 11:00**	**Matrix:**	**GROUND WATER**
Lab Sample ID:	**1205481844**	**Date Received:**	**08/03/2023 10:30**		
Client Sample:	**QC for batch 2472650**	**Client:**	**TRCI001**	**Project:**	**TRCI00123**
Client ID:	**FHRCRAPOC_02445MSD**	**Method:**	**SW846 3510C/8270E**	**SOP Ref:**	**GL-OA-E-009**
Batch ID:	**2472650**	**Inst:**	**MSD3.I**	**Dilution:**	**1**
Run Date:	**08/09/2023 20:22**	**Analyst:**	**MU1**	**Inj. Vol:**	**1 uL**
Prep Date:	**08/09/2023 12:16**	**Aliquot:**	**445 mL**	**Final Volume:**	**1 mL**
Data File:	**S080923.S\s3H0912.D**	**Column:**	**DB-5ms**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	Dimethylphthalate		85.1	ug/L	0.674	2.25
117-84-0	Di-n-octylphthalate		99.9	ug/L	0.674	2.25
70-30-4	Hexachlorophene	U	375	ug/L	375	1120

Quantitation Report

08/10/2023

Data Path : C:\msdchem\1\data\S080923.S\
Data File : s3H0912.D
Acq On : 09 Aug 2023 20:22
Operator : MU1
Sample : |1205481844|2472650|1|SVM|1|MSD|||
Misc : |MSD1C70E_L|GROUND WATER|QC A|mix[a,b,j,d,e]||
ALS Vial : 12 Sample Multiplier: 1

08/10/2023

Quant Time: Aug 10 09:19:07 2023
Quant Method : C:\msdchem\1\data\S080923.S\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:34:09 2023
Response via : Initial Calibration

Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	Dev(Min)
Internal Standards								
1) A 1,4-Dichlorobenzene-d4	152	4.112	4.107	1.000	119613	40.00	ng/uL	0.00
22) A Naphthalene-d8	136	5.528	5.525	1.000	488008	40.00	ng/uL	0.00
39) A Acenaphthene-d10	164	7.261	7.259	1.000	247651	40.00	ng/uL	0.00
64) A Phenanthrene-d10	188	8.561	8.559	1.000	501979	40.00	ng/uL	0.00
80) A Chrysene-d12	240	10.963	10.958	1.000	539467	40.00	ng/uL	0.00
88) A Perylene-d12	264	13.148	13.154	1.000	555595	40.00	ng/uL	0.00
96) B 1,4-Dichlorobenzene-d4	152	4.112	4.107	1.000	119613	40.00	ng/uL	0.00
112) B Naphthalene-d8	136	5.528	5.525	1.000	488008	40.00	ng/uL	0.00
120) B Acenaphthene-d10	164	7.261	7.259	1.000	247651	40.00	ng/uL	0.00
129) B Phenanthrene-d10	188	8.561	8.559	1.000	501979	40.00	ng/uL	0.00
142) B Chrysene-d12	240	10.963	10.958	1.000	539467	40.00	ng/uL	0.00
148) B Perylene-d12	264	13.148	13.154	1.000	555595	40.00	ng/uL	0.00
151) J Naphthalene-d8	136	5.528	5.525	1.000	488008	40.00	ng/uL	0.00
153) J Phenanthrene-d10	188	8.561	8.559	1.000	501979	40.00	ng/uL	0.00
156) J Chrysene-d12	240	10.963	10.958	1.000	539467	40.00	ng/uL	0.00
159) D Naphthalene-d8	136	5.528	5.525	1.000	488008	40.00	ng/uL	0.00
161) D Acenaphthene-d10	164	7.261	7.259	1.000	247651	40.00	ng/uL	0.00
164) D Phenanthrene-d10	188	8.561	8.559	1.000	501979	40.00	ng/uL	0.00
171) D Chrysene-d12	240	10.963	10.958	1.000	539467	40.00	ng/uL	0.00
173) E Naphthalene-d8	136	5.528	5.525	1.000	488008	40.00	ng/uL	0.00
175) E Perylene-d12	264	13.148	13.154	1.000	555595	40.00	ng/uL	0.00
System Monitoring Compounds								Dev(Min)
5) 2-Fluorophenol	112	2.802	2.803	0.681	160252	39.28	ng/uL	0.00
8) Phenol-d5	99	3.678	3.680	0.894	182604	37.29	ng/uL	0.00
23) Nitrobenzene-d5	82	4.713	4.712	0.853	138745	29.42	ng/uL	0.00
44) 2-Fluorobiphenyl	172	6.628	6.627	0.913	297553	30.11	ng/uL	0.00
63) 2,4,6-Tribromophenol	330	7.957	7.959	1.096	146345	61.45	ng/uL	0.00
79) p-Terphenyl-d14	244	9.893	9.890	1.156	424934	31.03	ng/uL	0.00

Compound	Amount	Range	Recovery
5) 2-Fluorophenol	100.000	11 - 79	39%
8) Phenol-d5	100.000	15 - 85	37%
23) Nitrobenzene-d5	50.000	39 - 112	59%
44) 2-Fluorobiphenyl	50.000	39 - 112	60%
63) 2,4,6-Tribromophenol	100.000	37 - 132	61%
79) p-Terphenyl-d14	50.000	24 - 129	62%

Target Compounds	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	QValue
3) N-Methyl-N-nitrosometh...	74	1.797	1.797	0.437	68155	25.47	ng/uL#	60
4) Pyridine	79	1.841	1.840	0.448	100613	21.68	ng/uL#	65
7) Aniline	93	3.757	3.760	0.914	174286	29.34	ng/uL	90
9) Phenol	94	3.693	3.696	0.898	107858	20.43	ng/uL	83
10) bis(2-Chloroethyl) ether	93	3.816	3.819	0.928	120684	28.13	ng/uL	83
11) 2-Chlorophenol	128	3.880	3.878	0.944	115680	26.84	ng/uL	88
12) n-Decane	43	3.924	3.926	0.954	100269	15.84	ng/uL	89
13) 1,3-Dichlorobenzene	146	4.050	4.049	0.985	109005	22.04	ng/uL	99
14) 1,4-Dichlorobenzene	146	4.129	4.129	1.004	118300	23.37	ng/uL	99
15) 1,2-Dichlorobenzene	146	4.294	4.295	1.044	112031	23.30	ng/uL	99
16) bis(2-Chloro-1-methyle...	45	4.396	4.397	1.069	258036	31.48	ng/uL	83
17) Benzyl alcohol	108	4.241	4.242	1.031	89777	32.06	ng/uL	92
18) o-Cresol	107	4.349	4.348	1.058	105360	30.03	ng/uL	98
19) m,p-Cresols	108	4.519	4.525	1.099	126930	30.94	ng/uL	89
20) N-Nitrosodipropylamine	70	4.540	4.541	1.104	112233	35.87	ng/uL	65
21) Hexachloroethane	117	4.669	4.669	1.135	38794	19.71	ng/uL	99
24) Nitrobenzene	77	4.736	4.739	0.857	156944	32.25	ng/uL	94

Data Path : C:\msdchem\1\data\S080923.S\
Data File : s3H0912.D
Acq On : 09 Aug 2023 20:22
Operator : MU1
Sample : |1205481844|2472650|1|SVM|1|MSD|||
Misc : |MSD1C70E_L|GROUND WATER|QC A|mix[a,b,j,d,e]||
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 10 09:19:07 2023
Quant Method : C:\msdchem\1\data\S080923.S\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:34:09 2023
Response via : Initial Calibration

Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	
25) Isophorone	82	5.009	5.006	0.906	300818	35.89	ng/uL	98
26) 2-Nitrophenol	139	5.100	5.097	0.923	63706	29.63	ng/uL	85
27) 2,4-Dimethylphenol	122	5.138	5.135	0.929	90711	28.85	ng/uL	95
28) bis(2-Chloroethoxy)met...	93	5.255	5.258	0.951	180287	32.88	ng/uL	99
29) 2,4-Dichlorophenol	162	5.361	5.359	0.970	119017	31.46	ng/uL	99
30) Benzoic acid	105	5.223	5.226	0.945	133447	43.27	ng/uL	96
31) 1,2,4-Trichlorobenzene	180	5.464	5.466	0.988	103329	24.22	ng/uL	96
32) alpha-Terpineol	59	5.560	5.557	1.006	167054	35.44	ng/uL	79
33) Naphthalene	128	5.552	5.552	1.004	382972	28.58	ng/uL	100
34) 4-Chloroaniline	127	5.604	5.605	1.014	178349	33.61	ng/uL	92
35) Hexachlorobutadiene	225	5.684	5.686	1.028	50579	19.45	ng/uL	99
36) 4-Chloro-3-methylphenol	107	6.106	6.103	1.104	142528	37.66	ng/uL	96
37) 2-Methylnaphthalene	142	6.270	6.269	1.134	258534	30.19	ng/uL	100
38) 1-Methylnaphthalene	142	6.369	6.365	1.152	257922	31.02	ng/uL	98
40) Hexachlorocyclopentadiene	237	6.425	6.424	0.885	56377	19.96	ng/uL	100
41) 2,3-Dichloroaniline	161	6.543	6.541	0.901	157723	33.40	ng/uL	98
42) 2,4,6-Trichlorophenol	196	6.543	6.541	0.901	99317	33.20	ng/uL	99
43) 2,4,5-Trichlorophenol	196	6.572	6.568	0.905	109092	36.14	ng/uL	99
45) 2-Chloronaphthalene	162	6.742	6.739	0.929	266574	30.56	ng/uL	100
46) o-Nitroaniline	65	6.836	6.836	0.941	110335	42.94	ng/uL	83
48) m-Nitroaniline	138	7.214	7.215	0.994	90000	38.93	ng/uL	92
49) Dimethylphthalate	163	7.006	7.007	0.965	369660	37.87	ng/uL	100
51) 2,6-Dinitrotoluene	165	7.062	7.060	0.973	74222	36.23	ng/uL	82
52) 2,4-Dinitrotoluene	165	7.426	7.424	1.023	105046	38.19	ng/uL	91
53) Acenaphthylene	152	7.129	7.130	0.982	432065	32.31	ng/uL	100
54) Acenaphthene	154	7.291	7.290	1.004	276761	32.74	ng/uL	95
55) 2,4-Dinitrophenol	184	7.305	7.306	1.006	43159	35.02	ng/uL	96
56) Dibenzofuran	168	7.446	7.445	1.025	428021	36.15	ng/uL	99
57) 2,3,4,6-Tetrachlorophenol	232	7.549	7.510	1.040	90752	33.22	ng/uL	96
58) Diethylphthalate	149	7.643	7.643	1.053	400193	39.99	ng/uL	99
59) 4-Nitrophenol	109	7.349	7.349	1.012	39809	27.99	ng/uL	82
60) Fluorene	166	7.751	7.750	1.067	355368	35.62	ng/uL	100
61) 4-Chlorophenylphenylether	204	7.745	7.745	1.067	171596	36.04	ng/uL	98
62) p-Nitroaniline	138	7.757	7.756	1.068	98915	42.13	ng/uL	92
65) 2-Methyl-4,6-dinitroph...	198	7.783	7.782	0.909	59454	39.77	ng/uL#	75
66) Diphenylamine	169	7.848	7.847	0.917	312208	37.84	ng/uL	95
67) 1,2-Diphenylhydrazine	77	7.886	7.884	0.921	436437	43.16	ng/uL	95
68) 4-Bromophenylphenylether	248	8.171	8.173	0.954	109389	34.44	ng/uL	97
69) Hexachlorobenzene	284	8.226	8.226	0.961	136569	32.68	ng/uL	100
70) Pentachlorophenol	266	8.391	8.387	0.980	91271	40.21	ng/uL	99
71) n-Octadecane	57	8.447	8.446	0.987	337715	41.24	ng/uL	85
73) Phenanthrene	178	8.582	8.579	1.002	537472	36.01	ng/uL	100
74) Anthracene	178	8.626	8.622	1.008	547102	37.49	ng/uL	99
75) Carbazole	167	8.755	8.756	1.023	522833	40.01	ng/uL	100
76) Di-n-butylphthalate	149	9.033	9.029	1.055	674860	42.35	ng/uL	99
77) Fluoranthene	202	9.584	9.585	1.120	604988	37.98	ng/uL	99
78) Pyrene	202	9.778	9.777	1.142	646255	38.36	ng/uL	98
81) Butylbenzylphthalate	149	10.324	10.323	0.942	275142	45.39	ng/uL	94
82) bis(2-Ethylhexyl)phtha...	149	10.942	10.943	0.998	426240	42.73	ng/uL	99
83) Benzo(a)anthracene	228	10.948	10.949	0.999	629279	36.92	ng/uL	99
84) Chrysene	228	10.995	10.997	1.003	610342	39.18	ng/uL	97
87) Di-n-octylphthalate	149	11.849	11.847	1.081	638456	44.46	ng/uL	85
89) Benzo(b)fluoranthene	252	12.482	12.484	0.949	610595	37.72	ng/uL	98
90) Benzo(k)fluoranthene	252	12.529	12.532	0.953	599294	39.35	ng/uL	98
91) Benzo(a)pyrene	252	13.048	13.051	0.992	527953	38.96	ng/uL	98
92) Indeno(1,2,3-cd)pyrene	276	15.279	15.286	1.162	553786	37.05	ng/uL	96
93) Dibenzo(a,h)anthracene	278	15.338	15.345	1.167	575962	35.10	ng/uL	97

Data Path : C:\msdchem\1\data\S080923.S\
Data File : s3H0912.D
Acq On : 09 Aug 2023 20:22
Operator : MU1
Sample : |1205481844|2472650|1|SVM|1|MSD|||
Misc : |MSD1C70E_L|GROUND WATER|QC A|mix[a,b,j,d,e]||
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 10 09:19:07 2023
Quant Method : C:\msdchem\1\data\S080923.S\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:34:09 2023
Response via : Initial Calibration

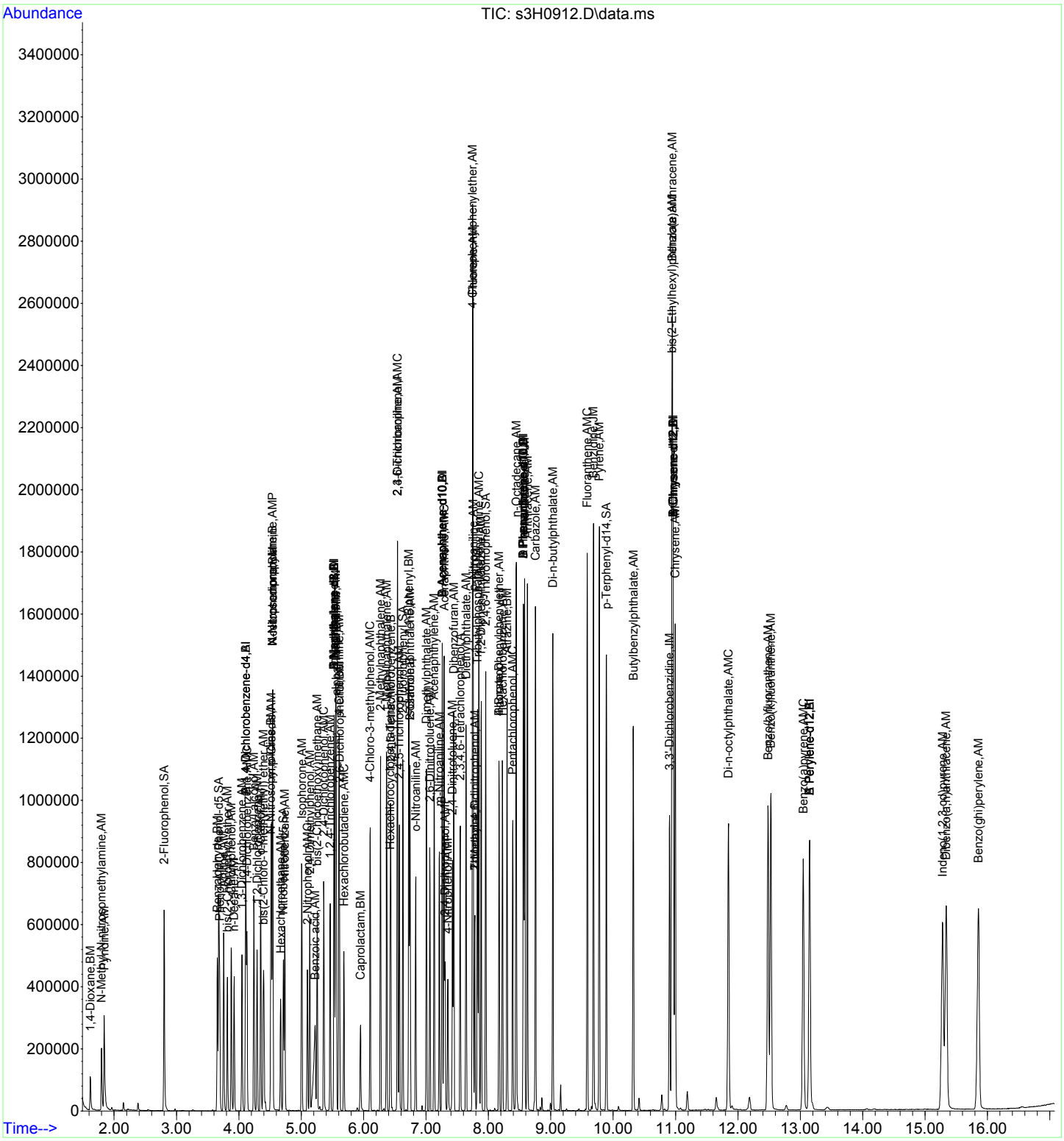
	Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	
94)	Benzo(ghi)perylene	276	15.855	15.864	1.206	600720	37.29	ng/uL	96
97)	1,4-Dioxane	88	1.618	1.618	0.394	34282	18.40	ng/uL	94
106)	Benzaldehyde	77	3.655	3.658	0.889	93263	27.65	ng/uL	98
108)	N-Nitrosopyrrolidine	100	4.514	4.513	1.098	66143	32.93	ng/uL	91
109)	Acetophenone	105	4.543	4.542	1.105	210895	30.99	ng/uL	96
110)	N-Nitrosomorpholine	56	4.540	4.560	1.104	10324	3.24	ng/uL#	48
115)	2,6-Dichlorophenol	162	5.613	5.612	1.015	117320	31.79	ng/uL	96
117)	Caprolactam	113	5.950	5.947	1.076	20265	18.38	ng/uL#	80
121)	1,2,4,5-Tetrachloroben...	216	6.434	6.433	0.886	124739	30.41	ng/uL	100
122)	1,1-Biphenyl	154	6.725	6.723	0.926	346669	33.07	ng/uL	99
123)	Isosafrole	162	6.742	6.688	0.929	266574	77.87	ng/uL#	31
135)	Atrazine	200	8.300	8.298	0.969	115789	48.85	ng/uL	99
155)	Benzidine	184	9.684	9.681	1.131	584032	57.45	ng/uL	99
158)	3,3'-Dichlorobenzidine	252	10.904	10.903	0.995	218088	33.97	ng/uL	98
162)	Thionazine	107	7.783	7.710	1.072	6062	3.86	ng/uL#	1
163)	Tributylphosphate	99	7.825	7.822	1.078	474353	43.23	ng/uL	98
166)	Phorate	75	8.171	8.103	0.954	20616	3.25	ng/uL#	48

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(A) = Over the calibration range (d) = deleted

Quantitation Report

Data Path : C:\msdchem\1\data\S080923.S\
Data File : s3H0912.D
Acq On : 09 Aug 2023 20:22
Operator : MU1
Sample : |1205481844|2472650|1|SVM|1|MSD|||
Misc : |MSD1C70E_L|GROUND WATER|QC A|mix[a,b,j,d,e]||
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 10 09:19:07 2023
Quant Method : C:\msdchem\1\data\S080923.S\MSD3_8270_080523a.m
Quant Title : BNA01
QLast Update : Mon Aug 07 14:34:09 2023
Response via : Initial Calibration



Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**631221**	**Date Collected:**	**07/27/2023 09:55**	**Matrix:**	**GROUND WATER**
Lab Sample ID:	**1205476116**	**Date Received:**	**07/28/2023 09:30**		
Client Sample:	**QC for batch 2469789**	**Client:**	**TRCI001**	**Project:**	**TRCI00123**
Client ID:	**16WC1AMSD**	**Method:**	**SW846 3510C/8270E**	**SOP Ref:**	**GL-OA-E-009**
Batch ID:	**2469792**	**Inst:**	**MSD4.I**	**Dilution:**	**1**
Run Date:	**08/03/2023 14:39**	**Analyst:**	**NM1**	**Inj. Vol:**	**1 uL**
Prep Date:	**08/02/2023 12:36**	**Aliquot:**	**500 mL**	**Final Volume:**	**1 mL**
Data File:	**S080323\s4H0318.D**	**Column:**	**DB-5ms**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	Dimethylphthalate		85.6	ug/L	0.600	2.00
117-84-0	Di-n-octylphthalate		83.3	ug/L	0.600	2.00
70-30-4	Hexachlorophene	U	334	ug/L	334	1000

Quantitation Report

08/04/2023

Data Path : C:\msdchem\1\data\S080323\
Data File : s4H0318.D
Acq On : 03 Aug 2023 14:39
Operator : NM1
Sample : |1205476116|2469792|1|SVM|1|MSD|||
Misc : |MSD1C70E_L|GROUND WATER|QC A|mix[a,b,j,d,e]||
ALS Vial : 17 Sample Multiplier: 1

08/04/2023

Quant Time: Aug 04 09:15:11 2023
Quant Method : C:\msdchem\1\data\S080323\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:54:56 2023
Response via : Initial Calibration

Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	Dev(Min)
Internal Standards								
1) A 1,4-Dichlorobenzene-d4	152	4.377	4.377	1.000	172462	40.00	ng/uL	0.00
22) A Naphthalene-d8	136	5.752	5.752	1.000	771025	40.00	ng/uL	0.00
39) A Acenaphthene-d10	164	7.421	7.426	1.000	382658	40.00	ng/uL	0.00
64) A Phenanthrene-d10	188	8.715	8.720	1.000	789424	40.00	ng/uL	0.00
80) A Chrysene-d12	240	11.256	11.255	1.000	936880	40.00	ng/uL	0.00
88) A Perylene-d12	264	13.679	13.684	1.000	1065223	40.00	ng/uL	0.00
96) B 1,4-Dichlorobenzene-d4	152	4.377	4.377	1.000	172462	40.00	ng/uL	0.00
112) B Naphthalene-d8	136	5.752	5.752	1.000	771025	40.00	ng/uL	0.00
120) B Acenaphthene-d10	164	7.421	7.426	1.000	382658	40.00	ng/uL	0.00
129) B Phenanthrene-d10	188	8.715	8.720	1.000	789424	40.00	ng/uL	0.00
142) B Chrysene-d12	240	11.256	11.255	1.000	936880	40.00	ng/uL	0.00
148) B Perylene-d12	264	13.679	13.684	1.000	1065223	40.00	ng/uL	0.00
151) J Naphthalene-d8	136	5.752	5.752	1.000	771025	40.00	ng/uL	0.00
153) J Phenanthrene-d10	188	8.715	8.720	1.000	789424	40.00	ng/uL	0.00
156) J Chrysene-d12	240	11.256	11.255	1.000	936880	40.00	ng/uL	0.00
159) D Naphthalene-d8	136	5.752	5.752	1.000	771025	40.00	ng/uL	0.00
161) D Acenaphthene-d10	164	7.421	7.426	1.000	382658	40.00	ng/uL	0.00
164) D Phenanthrene-d10	188	8.715	8.720	1.000	789424	40.00	ng/uL	0.00
171) D Chrysene-d12	240	11.256	11.255	1.000	936880	40.00	ng/uL	0.00
173) E Naphthalene-d8	136	5.752	5.752	1.000	771025	40.00	ng/uL	0.00
175) E Perylene-d12	264	13.679	13.684	1.000	1065223	40.00	ng/uL	0.00
System Monitoring Compounds								Dev(Min)
5) 2-Fluorophenol	112	3.078	3.083	0.703	216061	40.31	ng/uL	0.00
8) Phenol-d5	99	3.971	3.971	0.907	248477	37.48	ng/uL	0.00
23) Nitrobenzene-d5	82	4.987	4.987	0.867	191849	29.68	ng/uL	0.00
44) 2-Fluorobiphenyl	172	6.800	6.800	0.916	497251	35.06	ng/uL	0.00
63) 2,4,6-Tribromophenol	330	8.116	8.116	1.094	297933	85.69	ng/uL	0.00
79) p-Terphenyl-d14	244	10.057	10.057	1.154	738763	34.39	ng/uL	0.00

Compound	Amount	Range	Recovery
5) 2-Fluorophenol	100.000	11 - 79	40%
8) Phenol-d5	100.000	15 - 85	37%
23) Nitrobenzene-d5	50.000	39 - 112	59%
44) 2-Fluorobiphenyl	50.000	39 - 112	70%
63) 2,4,6-Tribromophenol	100.000	37 - 132	86%
79) p-Terphenyl-d14	50.000	24 - 129	69%

Target Compounds	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	QValue
3) N-Methyl-N-nitrosometh...	74	2.008	2.008	0.459	99464	28.65	ng/uL	99
4) Pyridine	79	2.051	2.050	0.468	71508	12.04	ng/uL	99
7) Aniline	93	4.024	4.024	0.919	214989	26.12	ng/uL	98
9) Phenol	94	3.987	3.987	0.911	141077	19.72	ng/uL	96
10) bis(2-Chloroethyl) ether	93	4.078	4.078	0.932	187151	33.59	ng/uL	98
11) 2-Chlorophenol	128	4.158	4.158	0.950	190840	31.34	ng/uL	100
12) n-Decane	43	4.174	4.174	0.954	106531	21.18	ng/uL	95
13) 1,3-Dichlorobenzene	146	4.318	4.318	0.987	188560	27.80	ng/uL	99
14) 1,4-Dichlorobenzene	146	4.399	4.399	1.005	204083	29.33	ng/uL	99
15) 1,2-Dichlorobenzene	146	4.564	4.564	1.043	194950	29.67	ng/uL	99
16) bis(2-Chloro-1-methyle...	45	4.661	4.661	1.065	213049	32.66	ng/uL#	71
17) Benzyl alcohol	108	4.516	4.516	1.032	134678	33.43	ng/uL	94
18) o-Cresol	107	4.639	4.639	1.060	150787	31.01	ng/uL	88
19) m,p-Cresols	108	4.805	4.810	1.098	176857	30.81	ng/uL#	41
20) N-Nitrosodipropylamine	70	4.805	4.805	1.098	155253	37.69	ng/uL	71
21) Hexachloroethane	117	4.939	4.939	1.128	65521	26.44	ng/uL	97
24) Nitrobenzene	77	5.008	5.008	0.871	210633	32.65	ng/uL	99

Quantitation Report

Data Path : C:\msdchem\1\data\S080323\
Data File : s4H0318.D
Acq On : 03 Aug 2023 14:39
Operator : NM1
Sample : |1205476116|2469792|1|SVM|1|MSD|||
Misc : |MSD1C70E_L|GROUND WATER|QC A|mix[a,b,j,d,e]||
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 04 09:15:11 2023
Quant Method : C:\msdchem\1\data\S080323\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:54:56 2023
Response via : Initial Calibration

Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	
25) Isophorone	82	5.260	5.260	0.914	421740	35.68	ng/uL	99
26) 2-Nitrophenol	139	5.351	5.351	0.930	114125	33.92	ng/uL	99
27) 2,4-Dimethylphenol	122	5.388	5.388	0.937	145071	29.84	ng/uL	99
28) bis(2-Chloroethoxy)met...	93	5.484	5.484	0.954	260177	34.89	ng/uL	97
29) 2,4-Dichlorophenol	162	5.607	5.607	0.975	195817	35.00	ng/uL	99
30) Benzoic acid	105	5.479	5.474	0.953	177192	45.19	ng/uL	97
31) 1,2,4-Trichlorobenzene	180	5.688	5.688	0.989	187136	30.68	ng/uL	100
32) alpha-Terpineol	59	5.773	5.773	1.004	166516	33.21	ng/uL	96
33) Naphthalene	128	5.773	5.773	1.004	625424	33.38	ng/uL	100
34) 4-Chloroaniline	127	5.827	5.827	1.013	273035	35.01	ng/uL	99
35) Hexachlorobutadiene	225	5.891	5.891	1.024	103568	28.34	ng/uL	99
36) 4-Chloro-3-methylphenol	107	6.313	6.313	1.098	208985	38.89	ng/uL	99
37) 2-Methylnaphthalene	142	6.458	6.458	1.123	441536	36.11	ng/uL	99
38) 1-Methylnaphthalene	142	6.554	6.554	1.139	437801	36.41	ng/uL	100
40) Hexachlorocyclopentadiene	237	6.602	6.602	0.890	37671	9.61	ng/uL	98
41) 2,3-Dichloroaniline	161	6.725	6.725	0.906	251501	37.24	ng/uL	98
42) 2,4,6-Trichlorophenol	196	6.725	6.725	0.906	162407	39.55	ng/uL	99
43) 2,4,5-Trichlorophenol	196	6.768	6.768	0.912	184229	41.75	ng/uL	98
45) 2-Chloronaphthalene	162	6.918	6.918	0.932	444528	37.63	ng/uL	96
46) o-Nitroaniline	65	7.009	7.009	0.945	127319	39.34	ng/uL	99
48) m-Nitroaniline	138	7.378	7.383	0.994	147666	39.97	ng/uL	99
49) Dimethylphthalate	163	7.164	7.164	0.965	592669	42.81	ng/uL	100
51) 2,6-Dinitrotoluene	165	7.223	7.223	0.973	132083	40.45	ng/uL	98
52) 2,4-Dinitrotoluene	165	7.581	7.581	1.022	182650	41.94	ng/uL	95
53) Acenaphthylene	152	7.298	7.297	0.983	688330	35.67	ng/uL	99
54) Acenaphthene	153	7.453	7.453	1.004	513684	40.55	ng/uL	100
55) 2,4-Dinitrophenol	184	7.469	7.469	1.006	70768	44.30	ng/uL	96
56) Dibenzofuran	168	7.602	7.608	1.025	719853	40.99	ng/uL	100
57) 2,3,4,6-Tetrachlorophenol	232	7.709	7.709	1.039	161656	42.20	ng/uL	98
58) Diethylphthalate	149	7.784	7.784	1.049	620392	44.44	ng/uL	99
59) 4-Nitrophenol	109	7.549	7.544	1.017	43033	25.38	ng/uL	86
60) Fluorene	166	7.907	7.907	1.066	587424	41.66	ng/uL	99
61) 4-Chlorophenylphenylether	204	7.897	7.897	1.064	292172	41.56	ng/uL	99
62) p-Nitroaniline	138	7.918	7.918	1.067	166116	42.58	ng/uL	99
65) 2-Methyl-4,6-dinitroph...	198	7.939	7.939	0.911	105844	47.39	ng/uL	99
66) Diphenylamine	169	7.998	7.998	0.918	509197	41.46	ng/uL	98
67) 1,2-Diphenylhydrazine	77	8.036	8.036	0.922	526582	39.66	ng/uL	98
68) 4-Bromophenylphenylether	248	8.319	8.319	0.955	206984	42.79	ng/uL	98
69) Hexachlorobenzene	284	8.378	8.378	0.961	261927	41.89	ng/uL	100
70) Pentachlorophenol	266	8.549	8.549	0.981	151849	45.67	ng/uL	99
71) n-Octadecane	57	8.571	8.576	0.983	320398	39.31	ng/uL	97
73) Phenanthrene	178	8.736	8.736	1.002	894333	42.55	ng/uL	99
74) Anthracene	178	8.779	8.784	1.007	910161	42.69	ng/uL	100
75) Carbazole	167	8.913	8.913	1.023	854252	43.71	ng/uL	100
76) Di-n-butylphthalate	149	9.170	9.169	1.052	1040331	43.77	ng/uL	100
77) Fluoranthene	202	9.747	9.747	1.118	1040656	44.97	ng/uL	99
78) Pyrene	202	9.945	9.945	1.141	1083315	44.58	ng/uL	99
81) Butylbenzylphthalate	149	10.523	10.523	0.935	461755	42.28	ng/uL	99
82) bis(2-Ethylhexyl)phtha...	149	11.202	11.202	0.995	683634	41.47	ng/uL	94
83) Benzo(a)anthracene	228	11.240	11.239	0.999	1090852	41.14	ng/uL	99
84) Chrysene	228	11.288	11.288	1.003	1083990	45.36	ng/uL	99
87) Di-n-octylphthalate	149	12.208	12.208	1.085	1127442	41.63	ng/uL	99
89) Benzo(b)fluoranthene	252	12.940	12.946	0.946	1221099	42.74	ng/uL	100
90) Benzo(k)fluoranthene	252	12.994	12.994	0.950	1183384	44.08	ng/uL	99
91) Benzo(a)pyrene	252	13.566	13.571	0.992	1071519	42.82	ng/uL	99
92) Indeno(1,2,3-cd)pyrene	276	16.011	16.010	1.170	1240588	41.67	ng/uL	99
93) Dibenzo(a,h)anthracene	278	16.064	16.069	1.174	1225352	41.35	ng/uL	99

Quantitation Report

Data Path : C:\msdchem\1\data\S080323\
Data File : s4H0318.D
Acq On : 03 Aug 2023 14:39
Operator : NM1
Sample : |1205476116|2469792|1|SVM|1|MSD|||
Misc : |MSD1C70E_L|GROUND WATER|QC A|mix[a,b,j,d,e]||
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 04 09:15:11 2023
Quant Method : C:\msdchem\1\data\S080323\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:54:56 2023
Response via : Initial Calibration

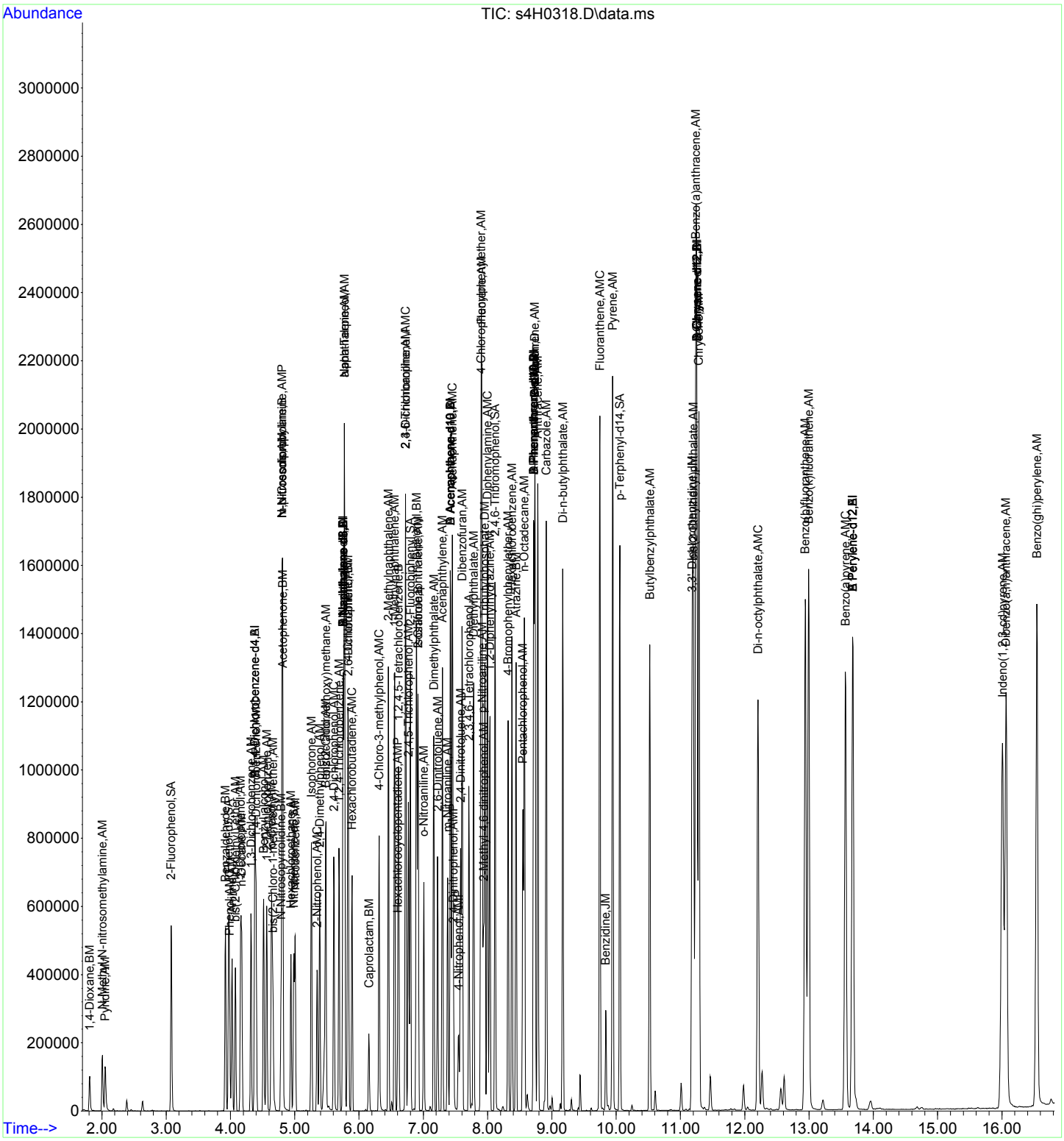
Compound	QIon	R.T.	Exp RT	Rel RT	Response	Conc	Units	
94) Benzo(ghi)perylene	276	16.545	16.545	1.210	1276217	43.89	ng/uL	99
97) 1,4-Dioxane	88	1.810	1.810	0.413	52998	21.88	ng/uL	99
106) Benzaldehyde	77	3.923	3.923	0.896	141398	30.63	ng/uL	99
108) N-Nitrosopyrrolidine	100	4.789	4.784	1.094	112509	37.41	ng/uL#	43
109) Acetophenone	105	4.816	4.810	1.100	305477	34.85	ng/uL	79
110) N-Nitrosomorpholine	56	4.805	4.826	1.098	9680	3.51	ng/uL#	34
115) 2,6-Dichlorophenol	162	5.832	5.832	1.014	194997	32.47	ng/uL	98
117) Caprolactam	113	6.153	6.148	1.070	34205	17.52	ng/uL#	76
121) 1,2,4,5-Tetrachloroben...	216	6.613	6.613	0.891	220626	33.72	ng/uL	100
122) 1,1-Biphenyl	154	6.896	6.896	0.929	587455	36.82	ng/uL	100
123) Isosafrole	162	6.918	6.854	0.932	433533	79.25	ng/uL#	36
135) Atrazine	200	8.442	8.442	0.969	207341	47.34	ng/uL	100
155) Benzidine	184	9.838	9.843	1.129	159273	8.95	ng/uL	99
158) 3,3'-Dichlorobenzidine	252	11.181	11.181	0.993	427848	35.71	ng/uL	99
163) Tributylphosphate	99	7.955	7.955	1.072	714842	44.73	ng/uL	99
168) Disulfoton	88	8.736	8.688	1.002	67926	9.17	ng/uL#	12

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(A) = Over the calibration range (d) = deleted

Quantitation Report

Data Path : C:\msdchem\1\data\S080323\
Data File : s4H0318.D
Acq On : 03 Aug 2023 14:39
Operator : NM1
Sample : |1205476116|2469792|1|SVM|1|MSD|||
Misc : |MSD1C70E_L|GROUND WATER|QC A|mix[a,b,j,d,e]||
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 04 09:15:11 2023
Quant Method : C:\msdchem\1\data\S080323\MSD4_8270_071123.m
Quant Title : BNA01
QLast Update : Thu Jul 13 09:54:56 2023
Response via : Initial Calibration



Miscellaneous

Prep Logbook

Extraction of Semivolatile and Nonvolatile Organic Compounds from Groundwater, Wastewater, and Other Aqueous Samples

Batch ID: 2469789 **Verified by:** _____
Analyst: Taylor Hardin
Method: SW846 3510C

Lab SOP: GL-OA-E-013 REV# 35
Instrument: Semi-Volatiles Manual

Sample ID	Prep Date	Initial Wt (g)	Final Wt (g)	Initial Volume (mL)	Ph 1	Ph 2	Ph 3	Final Volume (mL)	Prepped Factor (mL/mL)
1205476111 MB	02-AUG-2023 12:36:00			1000	7	1	10	1	0.001
1205476112 LCS	02-AUG-2023 12:36:00			1000	7	1	10	1	0.001
630885016	02-AUG-2023 12:36:00			1250	7	1	10	1	0.0008
1205476113 MS (630885016)	02-AUG-2023 12:36:00			500	7	1	10	1	0.002
1205476114 MSD (630885016)	02-AUG-2023 12:36:00			500	7	1	10	1	0.002
631221001	02-AUG-2023 12:36:00	1564.6	506.8	1057.8	7	1	10	1	0.00095
631221002	02-AUG-2023 12:36:00	1566.44	502.97	1063.47	7	1	10	1	0.00094
631221003	02-AUG-2023 12:36:00	1564.03	505.3	1058.73	7	1	10	1	0.00094
631221004	02-AUG-2023 12:36:00			1050	7	1	10	1	0.00095
1205476115 MS (631221004)	02-AUG-2023 12:36:00			500	7	1	10	1	0.002
1205476116 MSD (631221004)	02-AUG-2023 12:36:00			500	7	1	10	1	0.002
631221005	02-AUG-2023 12:36:00	1567.41	505.13	1062.28	7	1	10	1	0.00094
631221006	02-AUG-2023 12:36:00	1538.09	508.23	1029.86	7	1	10	1	0.00097

Type	Sample Id	Description	Serial Number	Spike Amt	Units
LCS	1205476112	BNA LCS w/o Benzidine/Atrazine 50ppm	WE230711-41	1	mL
LCS	1205476112	BENZIDINE/Atrazine LCS	WE230711-49	1	mL
MS	1205476113	BNA LCS w/o Benzidine/Atrazine 50ppm	WE230711-41	1	mL
MS	1205476113	BENZIDINE/Atrazine LCS	WE230711-49	1	mL
MS	1205476115	BNA LCS w/o Benzidine/Atrazine 50ppm	WE230711-41	1	mL
MS	1205476115	BENZIDINE/Atrazine LCS	WE230711-49	1	mL
MSD	1205476114	BNA LCS w/o Benzidine/Atrazine 50ppm	WE230711-41	1	mL
MSD	1205476114	BENZIDINE/Atrazine LCS	WE230711-49	1	mL
MSD	1205476116	BNA LCS w/o Benzidine/Atrazine 50ppm	WE230711-41	1	mL
MSD	1205476116	BENZIDINE/Atrazine LCS	WE230711-49	1	mL
SURR	All	BNA for all Surrogate	UE230711-15	1	mL
REGNT	All	Methylene Chloride-new lot 23F0762011	3938570	360	mL
REGNT	All	Sulfuric Acid 1:1 H2SO4/H2O	3943028	2	mL
REGNT	All	10 N Sodium Hydroxide	3943981	10	mL
SOURC	All	SODIUM SULFATE	3928604	30	g

Comments:

Balance#: OPWBAL-01
Final Solvent: CH2CL2
Verified By: De'Asia Gathers
Turbovap#: 2,3,4

Prep Logbook

Extraction of Semivolatile and Nonvolatile Organic Compounds from Groundwater, Wastewater, and Other Aqueous Samples

Batch ID: 2472647 **Verified by:** _____
Analyst: Taylor Hardin
Method: SW846 3510C

Lab SOP: GL-OA-E-013 REV# 35
Instrument: Semi-Volatiles Manual

Sample ID	Prep Date	Initial Wt (g)	Final Wt (g)	Initial Volume (mL)	Ph 1	Ph 2	Ph 3	Final Volume (mL)	Prepped Factor (mL/mL)
1205481839 MB	09-AUG-2023 12:16:00			1000	7	1	13	1	0.001
1205481840 LCS	09-AUG-2023 12:16:00			1000	7	1	13	1	0.001
631095016 - 2	09-AUG-2023 12:16:00	1392.79	405.9	986.89	8	1	13	1	0.00101
631221005 - 2	09-AUG-2023 12:16:00	1565.74	500.37	1065.37	7	1	13	1	0.00094
631989001	09-AUG-2023 12:16:00			1000	7	1	13	1	0.001
1205481843 MS (631989001)	09-AUG-2023 12:16:00			445	7	1	13	1	0.00225
1205481844 MSD (631989001)	09-AUG-2023 12:16:00			445	7	1	13	1	0.00225
632082001	09-AUG-2023 12:16:00			1070	7	1	13	1	0.00093
1205481845 MS (632082001)	09-AUG-2023 12:16:00			500	7	1	13	1	0.002
1205481846 MSD (632082001)	09-AUG-2023 12:16:00			500	7	1	13	1	0.002
632082002	09-AUG-2023 12:16:00	1558.95	511.98	1046.97	7	1	13	1	0.00096
632082003	09-AUG-2023 12:16:00	1554.4	519.75	1034.65	7	1	13	1	0.00097
632082004	09-AUG-2023 12:16:00	1523.79	512.41	1011.38	7	1	13	1	0.00099
632277001	09-AUG-2023 12:16:00	1412.47	439.18	973.29	7	1	13	1	0.00103

Type	Sample Id	Description	Serial Number	Spike Amt	Units
LCS	1205481840	BNA LCS w/o Benzidine/Atrazine 50ppm	WE230711-41	1	mL
LCS	1205481840	BENZIDINE/Atrazine LCS	WE230711-49	1	mL
MS	1205481843	BNA LCS w/o Benzidine/Atrazine 50ppm	WE230711-41	1	mL
MS	1205481843	BENZIDINE/Atrazine LCS	WE230711-49	1	mL
MS	1205481845	BNA LCS w/o Benzidine/Atrazine 50ppm	WE230711-41	1	mL
MS	1205481845	BENZIDINE/Atrazine LCS	WE230711-49	1	mL
MSD	1205481844	BNA LCS w/o Benzidine/Atrazine 50ppm	WE230711-41	1	mL
MSD	1205481844	BENZIDINE/Atrazine LCS	WE230711-49	1	mL
MSD	1205481846	BNA LCS w/o Benzidine/Atrazine 50ppm	WE230711-41	1	mL
MSD	1205481846	BENZIDINE/Atrazine LCS	WE230711-49	1	mL
SURR	All	BNA for all Surrogate	UE230711-15	1	mL
REGNT	All	Methylene Chloride-new lot 23F0762011	3938570	360	mL
REGNT	All	Sulfuric Acid 1:1 H2SO4/H2O	3949015	2	mL
REGNT	All	10 N Sodium Hydroxide	3950681	10	mL
SOURC	All	SODIUM SULFATE	3928604	30	g

Comments:

Balance#: OPWBAL-01
Final Solvent: CH2CL2
Verified By: De'Asia Gathers
Turbovap#: 4,5

08/07/2023

GEL ORGANIC RUN LOG

DATE: 5-Aug-23 METHOD: See Data OPERATOR: LOF Sequence Number: S080523A

Internal Std ID: UBN230126-01.3

Solvent Reference ID: 3859329

Calibration Information:
Initial Calibration Dates: See Calibration History
Initial Calibration Std ID's: See Associated Data and Run Log
GEL SOP: GL-OA-E-009

Analysis Date	Time	Data File	Lab Sample ID	Client	Batch #	Dil. Factor	AS Slot #	Analyst	Comments
08/05/2023	10:40	s3H0501.D	WBN230710-99	DFTPP	DFTPP	1	1	LOF	
08/05/2023	10:57	s3H0502.D	WBN230731-01.1	M-1	ICAL	1	2	LOF	
08/05/2023	11:22	s3H0503.D	WBN230731-02.1	M-2	ICAL	1	3	LOF	
08/05/2023	11:46	s3H0504.D	WBN230731-03.1	M-3	ICAL	1	4	LOF	
08/05/2023	12:11	s3H0505.D	WBN230731-04.6	M-4	ICAL	1	5	LOF	
08/05/2023	12:35	s3H0506.D	WBN230731-05	M-5	ICAL	1	6	LOF	
08/05/2023	12:59	s3H0507.D	WBN230731-06	M-6	ICAL	1	7	LOF	
08/05/2023	13:24	s3H0508.D	WBN230731-07	M-7	ICAL	1	8	LOF	
08/05/2023	13:48	s3H0509.D	WBN230731-08	M-8	ICAL	1	9	LOF	
08/05/2023	14:13	s3H0510.D	WBN230706-43.2	M-ICV	ICV	1	10	LOF	
08/06/2023	11:51	s3H0511.D	WBN230710-99	DFTPP	DFTPP	1	1	LOF	
08/06/2023	12:08	s3H0512.D	WBN230629-10.1	A-2	ICAL	1	11	LOF	
08/06/2023	12:29	s3H0513.D	WBN230629-11	A-3	ICAL	1	12	LOF	
08/06/2023	12:51	s3H0514.D	WBN230629-12	A-4	ICAL	1	13	LOF	
08/06/2023	13:12	s3H0515.D	WBN230629-13.1	A-5	ICAL	1	14	LOF	
08/06/2023	13:34	s3H0516.D	WBN230629-14	A-6	ICAL	1	15	LOF	
08/06/2023	13:56	s3H0517.D	WBN230629-15	A-7	ICAL	1	16	LOF	
08/06/2023	14:17	s3H0518.D	WBN230629-16	A-8	ICAL	1	17	LOF	
08/06/2023	14:39	s3H0519.D	WBN230629-17	A-9	ICAL	1	18	LOF	
08/06/2023	15:00	s3H0520.D	WBN230629-18	A-10	ICAL	1	19	LOF	
08/06/2023	15:22	s3H0521.D	WBN230629-20	A-ICV	ICV	1	20	LOF	
08/06/2023	15:44	s3H0522.D	WBN230712-42.1	B-2	ICAL	1	21	LOF	
08/06/2023	16:02	s3H0523.D	WBN230712-43	B-3	ICAL	1	22	LOF	
08/06/2023	16:21	s3H0524.D	WBN230712-44.1	B-4	ICAL	1	23	LOF	
08/06/2023	16:39	s3H0525.D	WBN230712-45	B-5	ICAL	1	24	LOF	
08/06/2023	16:58	s3H0526.D	WBN230712-46	B-6	ICAL	1	25	LOF	
08/06/2023	17:17	s3H0527.D	WBN230712-47	B-7	ICAL	1	26	LOF	
08/06/2023	17:35	s3H0528.D	WBN230712-48	B-8	ICAL	1	27	LOF	
08/06/2023	17:54	s3H0529.D	WBN230706-50	B-ICV	ICV	1	28	LOF	
08/06/2023	18:12	s3H0530.D	WBN230627-27.1	P-2	ICAL	1	29	LOF	
08/06/2023	18:31	s3H0531.D	WBN230627-26	P-3	ICAL	1	30	LOF	
08/06/2023	18:50	s3H0532.D	WBN230627-25.10	P-4	ICAL	1	31	LOF	
08/06/2023	19:08	s3H0533.D	WBN230627-24	P-5	ICAL	1	32	LOF	
08/06/2023	19:27	s3H0534.D	WBN230627-23	P-6	ICAL	1	33	LOF	
08/06/2023	19:46	s3H0535.D	WBN230627-22	P-7	ICAL	1	34	LOF	
08/06/2023	20:04	s3H0536.D	WBN230627-21	P-8	ICAL	1	35	LOF	
08/06/2023	20:23	s3H0537.D	WBN230712-26	P-ICV	ICV	1	36	LOF	

GEL ORGANIC RUN LOG

08/06/2023 20:41	s3H0538.D	WBN230710-31	H-2	ICAL	1	37	LOF	
08/06/2023 21:00	s3H0539.D	WBN230710-32	H-3	ICAL	1	38	LOF	
08/06/2023 21:19	s3H0540.D	WBN230710-33.1	H-4	ICAL	1	39	LOF	
08/06/2023 21:37	s3H0541.D	WBN230710-34	H-5	ICAL	1	40	LOF	
08/06/2023 21:56	s3H0542.D	WBN230710-35	H-6	ICAL	1	41	LOF	
08/06/2023 22:14	s3H0543.D	WBN230710-37	H-7	ICAL	1	42	LOF	
08/06/2023 22:33	s3H0544.D	WBN230602-37.2	H-ICV	ICV	1	43	LOF	

ORGANIC RUN LOG - INSTRUMENT ID#MSD3

GEL ORGANIC RUN LOG

DATE: 9-Aug-23 METHOD: See Data OPERATOR: MU1 Sequence Number: S080923.S

Internal Std ID: UBN230126-01.3

Solvent Reference ID: 3859329

Calibration Information:
Initial Calibration Dates: See Calibration History
Initial Calibration Std ID's: See Associated Data and Run Log
GEL SOP: GL-OA-E-009

Analysis Date	Time	Data File	Lab Sample ID	Client	Batch #	Dil. Factor	AS Slot #	Analyst	Comments
08/09/2023	07:59	rinse01.D	WBN221213-04.12	M-4	CCV	1	1	MU1	
08/09/2023	16:29	s3H0901.D	WBN230731-04.11	M-4	CCV	1	1	MU1	
08/09/2023	16:53	s3H0902.D	WBN230629-13.12	A-4	CCV	1	2	MU1	
08/09/2023	17:15	s3H0903.D	WBN230404-44.14	B-4	CCV	1	3	MU1	
08/09/2023	17:33	s3H0904.D	WBN230627-25.12	P-4	CCV	1	4	MU1	
08/09/2023	17:54	s3H0905.D	WBN230710-33.2	H-4	CCV	1	5	MU1	
08/09/2023	18:12	s3H0906.D	1205481839	MB	2472650	1	6	MU1	
08/09/2023	18:34	s3H0907.D	1205481840	LCS	2472650	1	7	MU1	
08/09/2023	18:56	s3H0908.D	631095016	UCOR	2472650	1	8	MU1	
08/09/2023	19:17	s3H0909.D	631221005	TRCI	2472650	1	9	MU1	
08/09/2023	19:39	s3H0910.D	631989001	WSRB	2472650	1	10	MU1	
08/09/2023	20:01	s3H0911.D	1205481843	MS	2472650	1	11	MU1	
08/09/2023	20:22	s3H0912.D	1205481844	MSD	2472650	1	12	MU1	
08/09/2023	20:44	s3H0913.D	632082001	CPRC	2472650	1	13	MU1	
08/09/2023	21:06	s3H0914.D	1205481845	MS	2472650	1	14	MU1	
08/09/2023	21:27	s3H0915.D	1205481846	MSD	2472650	1	15	MU1	
08/09/2023	21:49	s3H0916.D	632082002	CPRC	2472650	1	16	MU1	
08/09/2023	22:10	s3H0917.D	632082003	CPRC	2472650	1	17	MU1	
08/09/2023	22:32	s3H0918.D	632082004	CPRC	2472650	1	18	MU1	
08/09/2023	22:54	s3H0919.D	632277001	OLAB	2472650	1	19	MU1	

ORGANIC RUN LOG - INSTRUMENT ID#MSD4

GEL ORGANIC RUN LOG

DATE: 11-Jul-23 METHOD: See Data OPERATOR: NM1 Sequence Number: S071123ICAL

Internal Std ID: UBN230126-01.3

Solvent Reference ID: 3859329

Calibration Information:
Initial Calibration Dates: See Calibration History
Initial Calibration Std ID's: See Associated Data and Run Log
GEL SOP: GL-OA-E-009

Analysis Date	Time	Data File	Lab Sample ID	Client	Batch #	Dil. Factor	AS Slot #	Analyst	Comments
07/11/2023	17:21	s4G1101.D	WBN230607-99	DFTPP	DFTPP	1	1	NM1	
07/11/2023	17:37	s4G1102.D	WBN230627-01.1	M-1	ICAL	1	2	NM1	
07/11/2023	18:02	s4G1103.D	WBN230627-02.1	M-2	ICAL	1	3	NM1	
07/11/2023	18:26	s4G1104.D	WBN230627-03.2	M-3	ICAL	1	4	NM1	
07/11/2023	18:51	s4G1105.D	WBN230627-04.7	M-4	ICAL	1	5	NM1	
07/11/2023	19:15	s4G1106.D	WBN230627-05	M-5	ICAL	1	6	NM1	
07/11/2023	19:40	s4G1107.D	WBN230627-06	M-6	ICAL	1	7	NM1	
07/11/2023	20:04	s4G1108.D	WBN230627-07	M-7	ICAL	1	8	NM1	
07/11/2023	20:28	s4G1109.D	WBN230627-08	M-8	ICAL	1	9	NM1	
07/11/2023	20:53	s4G1110.D	WBN230706-43.2	M-ICV	ICV	1	10	NM1	
07/12/2023	09:34	s4G1111.D	WBN230607-99	DFTPP	DFTPP	1	1	NM1	
07/12/2023	09:50	s4G1112.D	WBN230629-10.1	A-2	ICAL	1	11	NM1	
07/12/2023	10:12	s4G1113.D	WBN230629-11	A-3	ICAL	1	12	NM1	
07/12/2023	10:33	s4G1114.D	WBN230629-12	A-9	ICAL	1	13	NM1	
07/12/2023	10:55	s4G1115.D	WBN230629-13.1	A-4	ICAL	1	14	NM1	
07/12/2023	11:16	s4G1116.D	WBN230629-14	A-5	ICAL	1	15	NM1	
07/12/2023	11:38	s4G1117.D	WBN230629-15	A-10	ICAL	1	16	NM1	
07/12/2023	11:59	s4G1118.D	WBN230629-16	A-6	ICAL	1	17	NM1	
07/12/2023	12:21	s4G1119.D	WBN230629-17	A-7	ICAL	1	18	NM1	
07/12/2023	12:42	s4G1120.D	WBN230629-18	A-8	ICAL	1	19	NM1	
07/12/2023	13:04	s4G1121.D	WBN230629-20	A-ICV	ICV	1	20	NM1	
07/12/2023	13:25	s4G1122.D	WBN230623-42.1	B-2	ICAL	1	21	NM1	
07/12/2023	13:44	s4G1123.D	WBN230623-43	B-3	ICAL	1	22	NM1	
07/12/2023	14:02	s4G1124.D	WBN230623-44.1	B-4	ICAL	1	23	NM1	
07/12/2023	14:21	s4G1125.D	WBN230623-45	B-5	ICAL	1	24	NM1	
07/12/2023	14:39	s4G1126.D	WBN230623-46	B-6	ICAL	1	25	NM1	
07/12/2023	14:58	s4G1127.D	WBN230623-47	B-7	ICAL	1	26	NM1	
07/12/2023	15:16	s4G1128.D	WBN230623-48	B-8	ICAL	1	27	NM1	
07/12/2023	15:35	s4G1129.D	WBN230706-50	B-ICV	ICV	1	28	NM1	
07/12/2023	15:53	s4G1130.D	WBN230627-27.1	P-2	ICAL	1	29	NM1	
07/12/2023	16:12	s4G1131.D	WBN230627-26	P-3	ICAL	1	30	NM1	
07/12/2023	16:30	s4G1132.D	WBN230627-25.1	P-4	ICAL	1	31	NM1	
07/12/2023	16:49	s4G1133.D	WBN230627-24	P-5	ICAL	1	32	NM1	
07/12/2023	17:07	s4G1134.D	WBN230627-23	P-6	ICAL	1	33	NM1	
07/12/2023	17:26	s4G1135.D	WBN230627-22	P-7	ICAL	1	34	NM1	
07/12/2023	17:44	s4G1136.D	WBN230627-21	P-8	ICAL	1	35	NM1	
07/12/2023	18:03	s4G1137.D	WBN230622-26	P-ICV	ICV	1	36	NM1	DUSE - aliquot concentrated, ISTDs high

GEL ORGANIC RUN LOG

07/12/2023 18:21	s4G1138.D	WBN230710-31.1	H-2	ICAL	1	37	NM1	
07/12/2023 18:40	s4G1139.D	WBN230710-32	H-3	ICAL	1	38	NM1	
07/12/2023 18:58	s4G1140.D	WBN230710-33	H-4	ICAL	1	39	NM1	
07/12/2023 19:16	s4G1141.D	WBN230710-34	H-5	ICAL	1	40	NM1	
07/12/2023 19:35	s4G1142.D	WBN230710-35	H-6	ICAL	1	41	NM1	
07/12/2023 19:53	s4G1143.D	WBN230710-37	H-7	ICAL	1	42	NM1	
07/12/2023 20:12	s4G1144.D	WBN230602-37.1	H-ICV	ICV	1	43	NM1	
07/14/2023 09:36	s4G1145.D	WBN230607-99	DFTPP	DFTPP	1	1	NM1	
07/14/2023 09:53	s4G1146.D	WBN230712-26	P-ICV	ICV	1	100	NM1	

ORGANIC RUN LOG - INSTRUMENT ID#MSD4

GEL ORGANIC RUN LOG

DATE: 3-Aug-23 METHOD: See Data OPERATOR: NM1 Sequence Number: S080323

Internal Std ID: UBN230126-01.3

Solvent Reference ID: 3859329

Calibration Information:
Initial Calibration Dates: See Calibration History
Initial Calibration Std ID's: See Associated Data and Run Log
GEL SOP: GL-OA-E-009

Analysis Date Time	Data File	Lab Sample ID	Client	Batch #	Dil. Factor	AS Slot #	Analyst	Comments
08/03/2023 08:45	s4H0301.D	WBN230710-99	DFTPP	DFTPP	1	1	NM1	duse - not required
08/03/2023 09:02	s4H0302.D	WBN230627-04.11	M-4	CCV	1	2	NM1	
08/03/2023 09:26	s4H0303.D	WBN230629-13.10	A-4	CCV	1	3	NM1	
08/03/2023 09:48	s4H0304.D	WBN230424-44.6	B-4	CCV	1	4	NM1	
08/03/2023 10:06	s4H0305.D	WBN230627-25.14	P-4	CCV	1	5	NM1	
08/03/2023 10:25	s4H0306.D	WBN230710-33.1	H-4	CCV	1	6	NM1	
08/03/2023 10:43	s4H0307.D	WBN230629-10.2	A-2	CRDL	1	100	NM1	duse - not required
08/03/2023 11:05	s4H0308.D	1205476111	MB	2469792	1	7	NM1	
08/03/2023 11:26	s4H0309.D	1205476112	LCS	2469792	1	8	NM1	
08/03/2023 11:47	s4H0310.D	630885016	CPRC	2469792	1	9	NM1	
08/03/2023 12:09	s4H0311.D	1205476113	MS	2469792	1	10	NM1	
08/03/2023 12:30	s4H0312.D	1205476114	MSD	2469792	1	11	NM1	
08/03/2023 12:52	s4H0313.D	631221001	TRCI	2469792	1	12	NM1	
08/03/2023 13:13	s4H0314.D	631221002	TRCI	2469792	1	13	NM1	
08/03/2023 13:35	s4H0315.D	631221003	TRCI	2469792	1	14	NM1	
08/03/2023 13:56	s4H0316.D	631221004	TRCI	2469792	1	15	NM1	
08/03/2023 14:18	s4H0317.D	1205476115	MS	2469792	1	16	NM1	
08/03/2023 14:39	s4H0318.D	1205476116	MSD	2469792	1	17	NM1	
08/03/2023 15:01	s4H0319.D	631221005	TRCI	2469792	1	18	NM1	
08/03/2023 15:22	s4H0320.D	631221006	TRCI	2469792	1	19	NM1	

Report of Analysis

TRC Companies
2200 South Main Street
Blacksburg, VA 24060
Attention: Janet Frazier

Project Name: RAAP HWMU16

Project Number: 547076

Lot Number:**YG28002**

Date Completed:09/25/2023

09/25/2023
Approved and released by:
Project Manager II: **Cathy S. Dover**

The electronic signature above is the equivalent of a handwritten signature.
This report shall not be reproduced, except in its entirety, without the written approval of Pace Analytical Services, LLC.

Case Narrative
TRC Companies
Lot Number: YG28002

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report. Where sampling is conducted by the client, results relate to the accuracy of the information provided, and as the samples are received.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved The NELAC Institute (TNI) standards, the Pace Analytical Services, LLC ("Pace") Laboratory Quality Manual, standard operating procedures (SOPs), and Pace policies. Any exceptions to the TNI standards, the Laboratory Quality Manual, SOPs or policies are qualified on the results page or discussed below.

Pace is a TNI accredited laboratory; however, the following analyses are currently not listed on our TNI scope of accreditation: Drinking Water: VOC (excluding BTEX, MTBE, Naphthalene, & 1,2-dichloroethane) EPA 524.2, E. coli and Total coliforms SM 9223 B-2004, Solid Chemical Material: TOC Walkley-Black, Biological Tissue: All, Non-Potable Water: SGT-HEM EPA 1664B, Silica EPA 200.7, Boron, Calcium, Silicon, Strontium EPA 200.8, Bicarbonate, Carbonate, and Hydroxide Alkalinity SM 2320 B-2011, SM 9221 C E-2006 & SM 9222D-2006, Strontium SW-846 6010D, VOC SM 6200 B-2011, Fecal Coliform Colilert-18, PFAS by Isotope Dilution SOP.

If you have any questions regarding this report, please contact the Pace Project Manager listed on the cover page.

Sample Summary
TRC Companies
Lot Number: YG28002
Project Name: RAAP HWMU16
Project Number: 547076

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	16C1	Aqueous	07/27/2023 1245	07/28/2023
002	16MW8	Aqueous	07/26/2023 1005	07/28/2023
003	16MW9	Aqueous	07/27/2023 1125	07/28/2023
004	16WC1A	Aqueous	07/27/2023 0955	07/28/2023
005	16WDUP	Aqueous	07/27/2023 1020	07/28/2023
006	16WC1B	Aqueous	07/26/2023 1205	07/28/2023

(6 samples)

Detection Summary

TRC Companies

Lot Number: YG28002

Project Name: RAAP HWMU16

Project Number: 547076

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page

(0 detections)

Semivolatile Organic Compounds by GC/MS

Client: **TRC Companies** Laboratory ID: **YG28002-001**

Description: **16C1** Matrix: **Aqueous**

Date Sampled: **07/27/2023 1245** Project Name: **RAAP HWMU16**

Date Received: **07/28/2023** Project Number: **547076**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270E	1	08/14/2023 1914	JCG	08/02/2023 1439	81478

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Isosafrole	120-58-1	8270E	10	U	10	0.50	ug/L	1
Pentachloronitrobenzene	82-68-8	8270E	10	U	10	1.0	ug/L	1
Pronamide	23950-58-5	8270E	10	U	10	1.5	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		92	37-129
2-Fluorophenol		58	24-127
Nitrobenzene-d5		101	38-127
Phenol-d5		68	28-128
Terphenyl-d14		122	10-148
2,4,6-Tribromophenol		80	35-144

LOQ = Limit of Quantitation
U = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Semivolatile Organic Compounds by GC/MS

Client: **TRC Companies** Laboratory ID: **YG28002-002**

Description: **16MW8** Matrix: **Aqueous**

Date Sampled: **07/26/2023 1005** Project Name: **RAAP HWMU16**

Date Received: **07/28/2023** Project Number: **547076**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270E	1	08/14/2023 1939	JCG	08/02/2023 1439	81478

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Isosafrole	120-58-1	8270E	10	U	10	0.50	ug/L	1
Pentachloronitrobenzene	82-68-8	8270E	10	U	10	1.0	ug/L	1
Pronamide	23950-58-5	8270E	10	U	10	1.5	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		76	37-129
2-Fluorophenol		36	24-127
Nitrobenzene-d5		89	38-127
Phenol-d5		68	28-128
Terphenyl-d14		105	10-148
2,4,6-Tribromophenol		70	35-144

LOQ = Limit of Quantitation
U = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Semivolatile Organic Compounds by GC/MS

Client: **TRC Companies** Laboratory ID: **YG28002-003**

Description: **16MW9** Matrix: **Aqueous**

Date Sampled: **07/27/2023 1125** Project Name: **RAAP HWMU16**

Date Received: **07/28/2023** Project Number: **547076**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270E	1	08/14/2023 2004	JCG	08/02/2023 1439	81478

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Isosafrole	120-58-1	8270E	10	U	10	0.50	ug/L	1
Pentachloronitrobenzene	82-68-8	8270E	10	U	10	1.0	ug/L	1
Pronamide	23950-58-5	8270E	10	U	10	1.5	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		70	37-129
2-Fluorophenol		35	24-127
Nitrobenzene-d5		86	38-127
Phenol-d5		60	28-128
Terphenyl-d14		101	10-148
2,4,6-Tribromophenol		64	35-144

LOQ = Limit of Quantitation
U = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Semivolatile Organic Compounds by GC/MS

Client: **TRC Companies** Laboratory ID: **YG28002-004**

Description: **16WC1A** Matrix: **Aqueous**

Date Sampled: **07/27/2023 0955** Project Name: **RAAP HWMU16**

Date Received: **07/28/2023** Project Number: **547076**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270E	1	08/14/2023 2029	JCG	08/02/2023 1439	81478

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Isosafrole	120-58-1	8270E	10	U	10	0.50	ug/L	1
Pentachloronitrobenzene	82-68-8	8270E	10	U	10	1.0	ug/L	1
Pronamide	23950-58-5	8270E	10	U	10	1.5	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		74	37-129
2-Fluorophenol		30	24-127
Nitrobenzene-d5		86	38-127
Phenol-d5		59	28-128
Terphenyl-d14		101	10-148
2,4,6-Tribromophenol		68	35-144

LOQ = Limit of Quantitation
U = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Semivolatile Organic Compounds by GC/MS

Client: **TRC Companies** | Laboratory ID: **YG28002-005**

Description: **16WDUP** | Matrix: **Aqueous**

Date Sampled: **07/27/2023 1020** | Project Name: **RAAP HWMU16**

Date Received: **07/28/2023** | Project Number: **547076**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270E	1	08/14/2023 2054	JCG	08/02/2023 1439	81478

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Isosafrole	120-58-1	8270E	10	U	10	0.50	ug/L	1
Pentachloronitrobenzene	82-68-8	8270E	10	U	10	1.0	ug/L	1
Pronamide	23950-58-5	8270E	10	U	10	1.5	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		72	37-129
2-Fluorophenol		31	24-127
Nitrobenzene-d5		85	38-127
Phenol-d5		61	28-128
Terphenyl-d14		101	10-148
2,4,6-Tribromophenol		67	35-144

LOQ = Limit of Quantitation
U = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Semivolatile Organic Compounds by GC/MS

Client: **TRC Companies** Laboratory ID: **YG28002-006**

Description: **16WC1B** Matrix: **Aqueous**

Date Sampled: **07/26/2023 1205** Project Name: **RAAP HWMU16**

Date Received: **07/28/2023** Project Number: **547076**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270E	1	08/14/2023 2119	JCG	08/02/2023 1439	81478

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Isosafrole	120-58-1	8270E	10	U	10	0.50	ug/L	1
Pentachloronitrobenzene	82-68-8	8270E	10	U	10	1.0	ug/L	1
Pronamide	23950-58-5	8270E	10	U	10	1.5	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		76	37-129
2-Fluorophenol		39	24-127
Nitrobenzene-d5		88	38-127
Phenol-d5		70	28-128
Terphenyl-d14		103	10-148
2,4,6-Tribromophenol		65	35-144

LOQ = Limit of Quantitation
U = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

QC Summary

Semivolatile Organic Compounds by GC/MS - MB

Sample ID: YQ81478-001
Batch: 81478
Analytical Method: 8270E
Matrix: Aqueous
Prep Method: 3520C
Prep Date: 08/02/2023 1439

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Isosafrole	10	U	1	10	0.50	ug/L	08/14/2023 1643
Pentachloronitrobenzene	10	U	1	10	1.0	ug/L	08/14/2023 1643
Pronamide	10	U	1	10	1.5	ug/L	08/14/2023 1643

Surrogate	Q	% Rec	Acceptance Limit
2-Fluorobiphenyl		67	37-129
2-Fluorophenol		32	24-127
Nitrobenzene-d5		85	38-127
Phenol-d5		70	28-128
Terphenyl-d14		98	10-148
2,4,6-Tribromophenol		55	35-144

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - LCS

Sample ID: YQ81478-002
Batch: 81478
Analytical Method: 8270E

Matrix: Aqueous
Prep Method: 3520C
Prep Date: 08/02/2023 1439

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Isosafrole	16	11		1	66	30-130	08/14/2023 1709
Pentachloronitrobenzene	16	13		1	79	30-130	08/14/2023 1709
Pronamide	16	13		1	83	30-130	08/14/2023 1709

Surrogate	Q	% Rec	Acceptance Limit
2-Fluorobiphenyl		69	37-129
2-Fluorophenol		24	24-127
Nitrobenzene-d5		75	38-127
Phenol-d5		57	28-128
Terphenyl-d14		93	10-148
2,4,6-Tribromophenol		70	35-144

LOQ = Limit of Quantitation
DL = Detection Limit

U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria

N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MS

Sample ID: YG28002-004MS
Batch: 81478
Analytical Method: 8270E

Matrix: Aqueous
Prep Method: 3520C
Prep Date: 08/02/2023 1439

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Isosafrole	0.0	16	11		1	68	30-130	08/14/2023 2144
Pentachloronitrobenzene	0.0	16	13		1	79	30-130	08/14/2023 2144
Pronamide	0.0	16	14		1	85	30-130	08/14/2023 2144

Surrogate	Q	% Rec	Acceptance Limit
2-Fluorobiphenyl		71	37-129
2-Fluorophenol		26	24-127
Nitrobenzene-d5		76	38-127
Phenol-d5		61	28-128
Terphenyl-d14		97	10-148
2,4,6-Tribromophenol		73	35-144

LOQ = Limit of Quantitation
DL = Detection Limit

U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria

N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MSD

Sample ID: YG28002-004MD
Batch: 81478
Analytical Method: 8270E

Matrix: Aqueous
Prep Method: 3520C
Prep Date: 08/02/2023 1439

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
Isosafrole	0.0	16	11		1	66	3.1	30-130	40	08/14/2023 2209
Pentachloronitrobenzene	0.0	16	14		1	86	8.7	30-130	40	08/14/2023 2209
Pronamide	0.0	16	14		1	91	6.3	30-130	40	08/14/2023 2209

Surrogate	Q	% Rec	Acceptance Limit
2-Fluorobiphenyl		74	37-129
2-Fluorophenol		30	24-127
Nitrobenzene-d5		80	38-127
Phenol-d5		62	28-128
Terphenyl-d14		104	10-148
2,4,6-Tribromophenol		74	35-144

LOQ = Limit of Quantitation
DL = Detection Limit

U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria

N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Chain of Custody
and
Miscellaneous Documents

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

CHAIN OF CUSTODY RECORD

Laboratory: Pace West Columbia- 106 Vantage Point Dr. West Columbia, SC 29172 803-227-3160 PM: Cathy Dover cell 919-616-1180

Client: 0 Attn: 0 Address: 0 0 Phone: 0 Fax: 0 Fax: 0	Consultant: TRC Engineers Inc (formerly Draper Aden Assoc) Attn: James C. Peeler Address: 5200 South Main Street Suite 1 Blacksburg, Virginia 24060 Phone: (540) 552-3444 Fax:	Sample Site: RFAAP, Radford, Virginia Location: RWMU16 Event: 3Q 2023 Annual GW Monitoring Event D&A #: Lab #: 547076	Project Specific (PS) QC? YES as Indicated Sample Collection for Project Complete? Yes WBS 12-237-301-01-9066-2515 Carrier: Tracking Number:

Box 1: Matrix — SW Surface Water; GW Groundwater; L Leachate; S Soil; T Trip Blank; E Equipment Blank; P Product; O Other

Box 2: Preservative — A HCl; B HNO_3; C H_2SO_4; D $Na_2S_2O_3$; E NaOH; F ZnAc; G Other (Specify); H None

Box 3: Filtered/Unfiltered — F Filtered; U Unfiltered

Box 4: Sample Type — C Composite; G Grab

Box 5: Sample Container Type — P Plastic; V VOA; AG Amber Glass; CG Clear Glass

Invoice — Copy to Consultant: YES; Bill: CLIENT CONSR ____; Preserved and shipped on ice: YES

Box 4 - Sample Type: G
Box 3 - Filtered/Unfiltered: U
Required pH of Sample:
Box 2 - Preservative: H
Box 5 - Sample Container Type: 2-500 ml AG

Sample ID	Date: 2023	Time	Box 1: Matrix	Number of Bottles		8270E/3510C (Semivolatiles)see note section for pentachloronitrobenzene only						
16C1	7/27	1245	GW	2		X						
16MW8	7/26	1005	GW	2		X						
16MW9	7/27	1125	GW	2		X						
16WC1A	7/27	0955	GW	6		X						
16WDUP	7/27	1020	GW	2		X						
16WC1B	7/26	1205	GW	2		X						

GENERAL NOTES:
1. Report results to detection limit, with J flags, for italicized wells.
2. VELAP accreditation required.
3. FULL/Comprehensive Deliverable with EDD .xlsx EQUIS.
4. Report to these Permit Specified QL and MDL below.
REPORT ONLY (1) pentachloronitrobenzene permit QL/DL = 10 ug/l/1 ug/l)
(2) Isosafrole - Permit QL/DL 10/1.6 ug/L
(3) Fonamide - Permit QL/DL 10/1.5 ug/L
JCK 7/25/23

YG28002

CSD

USE FOR QC

Check Special Instructions:

Received by lab in Good Condition: ✓ Yes ____ No Custody Seal Intact: ✓ Yes ____ No Temperature Upon Arrival: 1.4 °C Received on Ice: ✓ Yes ____ No
Describe problems, if any:

Sampler Name (Print): Ken Coddington	7/26/23	#1 Relinquished by (Signature): Ken Coddington	7/27/23	#2 Relinquished by (Consultant): UPS	7.28.23
Sampler Signature: Ken Coddington	0700	Company Name: DAA-TRC	1700	Company Name:	918
Sampler Name (Print): Alexa Prater	7/26/23	#1 Received by (Signature):	Date:	#2 Received by (Signature): Cooper Crews	7.28.23
Sampler Signature: Alexa Prater	0700	Company Name:	Time:	Company Name:	918

Sample Storage Time Requested: 30 DYR DATA MRS HORS

VELAP ✓ 7/7/23 # 12068 exp 9-14-23
MRL's QL — due 7/25/23

Page 1 of 1
JCK 7/25/23

PACE ANALYTICAL SERVICES, LLC

DC#_Title: ENV-FRM-WCOL-0286 v02_Samples Receipt Checklist (SRC)
Effective Date: 8/2/2022

Sample Receipt Checklist (SRC)

Client: DRAPER Cooler Inspected by/date: KDRW / 07/28/2023 Lot #: YG28002

Means of receipt: ☐ Pace ☐ Client ☑ UPS ☐ FedEx ☐ Other: ____

☑ Yes	☐ No		1. Were custody seals present on the cooler?
☑ Yes	☐ No	☐ NA	2. If custody seals were present, were they intact and unbroken?

pH Strip ID: NA Chlorine Strip ID: NA Tested by: NA
Original temperature upon receipt / Derived (Corrected) temperature upon receipt %Solid Snap-Cup ID: NA
1.4 / 1.4 °C NA / NA °C NA / NA °C NA / NA °C
Method: ☑ Temperature Blank ☐ Against Bottles IR Gun ID: 8 IR Gun Correction Factor: 0 °C
Method of coolant: ☑ Wet Ice ☐ Ice Packs ☐ Dry Ice ☐ None

☑ Yes	☐ No	☐ NA	3. Were all coolers received at or below 6.0°C? If no, was Project Manager notified? PM was Notified by: phone / email / face-to-face (circle one).
☑ Yes	☐ No	☐ NA	4. Is the commercial courier's packing slip attached to this form?
☑ Yes	☐ No		5. Were proper custody procedures (relinquished/received) followed?
☑ Yes	☐ No		6. Were sample IDs listed on the COC and all sample containers?
☑ Yes	☐ No		7. Was collection date & time listed on the COC and all sample containers?
☑ Yes	☐ No		8. Did all container label information (ID, date, time) agree with the COC?
☑ Yes	☐ No		9. Were tests to be performed listed on the COC?
☑ Yes	☐ No		10. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)? ____
☑ Yes	☐ No		11. Was adequate sample volume available?
☑ Yes	☐ No		12. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
☑ Yes	☐ No		13. Were all samples containers accounted for? (No missing/excess)
☐ Yes	☐ No	☑ NA	14. Were VOA, 8015C and RSK-175 samples free of bubbles >"pea-size" (¼" or 6mm in diameter) in any of the VOA vials?
☐ Yes	☐ No	☑ NA	15. Were all DRO/metals/nutrient samples received at a pH of < 2?
☐ Yes	☐ No	☑ NA	16. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
☐ Yes	☐ No	☑ NA	17. Were all applicable NH3/TKN/cyanide/phenol/625.1/608.3 (< 0.5mg/L) samples free of residual chlorine?
☑ Yes	☐ No	☐ NA	18. Was the quote number listed on the container label? If yes, Quote # 20657

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) NA were received incorrectly preserved and were adjusted accordingly in sample receiving with NA mL of circle one: H2SO4, HNO3, HCl, NaOH using SR # NA. Time of preservation NA. If more than one preservative is needed, please note in the comments below.

Sample(s) ____ were received with bubbles >6 mm in diameter.

Samples(s) NA were received with TRC > 0.5 mg/L (If #19 is *no*) and were adjusted accordingly in sample receiving with sodium thiosulfate ($Na_2S_2O_3$) with Unique ID: NA.

Comments:

SEMIVOLATILE

QC SUMMARY

FORM 2
DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: Pace Analytical Services, LLC Lot No.: YG28002

Project No.: 547076

AnalyticalMethod: 8270E Matrix: Water

CLIENT SAMPLE ID	DMC1	DMC2	DMC3	DMC4	DMC5	DMC6			TOT OUT
16C1	92	58	101	68	122	80			0
16MW8	76	36	89	68	105	70			0
16MW9	70	35	86	60	101	64			0
16WC1A	74	30	86	59	101	68			0
16WDUP	72	31	85	61	101	67			0
16WC1B	76	39	88	70	103	65			0
16WC1AMSD	74	30	80	62	104	74			0
16WC1AMS	71	26	76	61	97	73			0
SBLK78	67	32	85	70	98	55			0
SLCS78	69	24	75	57	93	70			0

	QC LIMITS
DMC1 = 2-Fluorobiphenyl	37-129
DMC2 = 2-Fluorophenol	24-127
DMC3 = Nitrobenzene-d5	38-127
DMC4 = Phenol-d5	28-128
DMC5 = Terphenyl-d14	10-148
DMC6 = 2,4,6-Tribromophenol	35-144

* Values outside of contract required QC limits
D DMC diluted out

FORM 3
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical Services, LLC Lot No.: YG28002

Project No.: 547076

Analytical Method: 8270E Matrix: Water

Client Sample ID (Matrix Spike/Matrix Spike Duplicate): 16WC1A

Instrument ID: Agilent__MSD10 Lab Sample ID: YG28002-004MS

Concentration Units (ug/L, mg/L, ug/kg): ug/L

ANALYTE	SPIKE ADDED	SAMPLE CONCENTRATION	MS CONCENTRATION	MS %REC #	QC LIMITS REC.
Isosafrole	16		11	68	30-130
Pentachloronitrobenzene	16		13	79	30-130
Pronamide	16		14	85	30-130

ANALYTE	SPIKE ADDED	MSD CONCENTRATION	MSD %R #	RPD #	QC LIMITS	
					RPD	%R
Isosafrole	16	11	66	3.1	0-40	30-130
Pentachloronitrobenzene	16	14	86	8.7	0-40	30-130
Pronamide	16	14	91	6.3	0-40	30-130

* Values outside of QC Limits

FORM 3
LABORATORY CONTROL/LABORATORY CONTROL DUPLICATE SAMPLE RECOVERY

Lab Name: Pace Analytical Services, LLC Lot No.: YG28002

Project No.: 547076

Analytical Method: 8270E Matrix: Water

Client Sample ID: SLCS78 Lab Sample ID: YQ81478-002

Instrument ID: Agilent__MSD10

Concentration Units (ug/L, mg/L, ug/kg): ug/L

ANALYTE	SPIKE ADDED	LCS CONCENTRATION	LCS %REC #	QC LIMITS REC.
Isosafrole	16	11	66	30-130
Pentachloronitrobenzene	16	13	79	30-130
Pronamide	16	13	83	30-130

* Values outside of QC Limits

CLIENT SAMPLE ID

SBLK78

FORM 4
METHOD BLANK SUMMARY

Lab Name: Pace Analytical Services, LLC

Lot No.: YG28002

Project No.: 547076

Lab Sample ID: YQ81478-001

Analytical Method: 8270E

Matrix: Water

Instrument ID: Agilent MSD10

Lab File ID: 10081418

Extraction Type: 3520C

Date Extracted: 08/02/2023

GC Column(1): ZEBRON ZB-SV ID: 0.25 (mm)

Date Analyzed: 08/14/2023

GC Column(2): _____ ID: _____ (mm)

Time Analyzed: 16:43

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE/TIME ANALYZED
16C1	YG28002-001	10081424	08/14/2023
16MW8	YG28002-002	10081425	08/14/2023
16MW9	YG28002-003	10081426	08/14/2023
16WC1A	YG28002-004	10081427	08/14/2023
16WDUP	YG28002-005	10081428	08/14/2023
16WC1B	YG28002-006	10081429	08/14/2023
16WC1AMSD	YG28002-004MD	10081431	08/14/2023
16WC1AMS	YG28002-004MS	10081430	08/14/2023
SLCS78	YQ81478-002	10081419	08/14/2023

Report Date: 04-Aug-2023 08:50:22 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

Form 5 MS Tune Report

Data File: \\Organics\HH\chem\msd10.i\10080323B.b\100803B01.d

Injection Date:	03-Aug-2023 14:17:30	Inst. ID:	msd10.i
Method:	8270E-tun.m	Tune Type:	DFTPP
Client ID:	DFTPPQA	Lab ID:	SVMS 6559
Sample Info:	10080323B.b, SVMS 6559		
Injection Vol.		Dil. Factor:	1.0
Operator:	JCG		
Column:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan

m/z	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% relative abundance	100.0
68	Less than 2.00% of mass 69	0.0 (0.0) 1
69	Present	59.0
70	Less than 2.00% of mass 69	0.3 (0.5) 1
197	Less than 2.00% of mass 198	0.0
199	5.00 - 9.00% of mass 198	6.8
365	Greater than 1.00% of mass 198	1.8
441	Less than 150.00% of mass 443	8.5 (79.9) 2
442	Present	57.7
443	15.00 - 24.00% of mass 442	10.7 (18.5) 3

1-Value is % Mass 69 2-Value is % Mass 443 3-Value is % Mass 442

Sample Type	Data File	Lab Sample ID	Client Sample ID	Injection Date/Time	Tune Clock (HH:MM:SS)
DFTPP	100803B01.d	SVMS 6559	DFTPPQA	03-Aug-2023 14:17:30	00:00:00
Client	100803B02.d	23-1378		03-Aug-2023 14:33:30	00:16:00
Ical	100803B03.d	SVMS 6673	1STD00.2QB	03-Aug-2023 14:58:30	00:41:00
Ical	100803B04.d	SVMS 6674	1STD001QB	03-Aug-2023 15:23:30	01:06:00
Ical	100803B05.d	SVMS 6675	1STD002QB	03-Aug-2023 15:48:30	01:31:00
Ical	100803B06.d	SVMS 6676	1STD005QB	03-Aug-2023 16:12:30	01:55:00
Ical	100803B07.d	SVMS 6677	1STD010QB	03-Aug-2023 16:37:30	02:20:00
Ical	100803B08.d	SVMS 6678	1STD015QB	03-Aug-2023 17:02:30	02:45:00
Ical	100803B09.d	SVMS 6679	1STD020QB	03-Aug-2023 17:27:30	03:10:00
Ical	100803B10.d	SVMS 6680	1STD025QB	03-Aug-2023 17:52:30	03:35:00
Ical	100803B11.d	SVMS 6681	1STD030QB	03-Aug-2023 18:17:30	04:00:00
LCS	100803B12.d	SVMS 6682	1STDICV	03-Aug-2023 18:42:30	04:25:00
Ical	100803B13.d	SVMS 6576	3STD001QC	03-Aug-2023 19:06:30	04:49:00
Ical	100803B14.d	SVMS 6577	3STD002QC	03-Aug-2023 19:31:30	05:14:00
Ical	100803B15.d	SVMS 6578	3STD005QC	03-Aug-2023 19:56:30	05:39:00
Ical	100803B16.d	SVMS 6579	3STD010QC	03-Aug-2023 20:21:30	06:04:00
Ical	100803B17.d	SVMS 6580	3STD015QC	03-Aug-2023 20:46:30	06:29:00
Ical	100803B18.d	SVMS 6581	3STD020QC	03-Aug-2023 21:10:30	06:53:00
Ical	100803B19.d	SVMS 6582	3STD025QC	03-Aug-2023 21:35:30	07:18:00
Ical	100803B20.d	SVMS 6583	3STD030QC	03-Aug-2023 22:00:30	07:43:00
LCS	100803B21.d	SVMS 6584	3STDICV	03-Aug-2023 22:25:30	08:08:00
LCS	100803B22.d	YQ80822-002	SLCS22	03-Aug-2023 22:49:30	08:32:00
Client	100803B23.d	YG10032-002	Base Neutrals	03-Aug-2023 23:14:30	08:57:00

Sample Type	Data File	Lab Sample ID	Client Sample ID	Injection Date/Time	Tune Clock (HH:MM:SS)
Client	100803B24.d	YG10032-003	Acids	03-Aug-2023 23:39:30	09:22:00
Client	100803B25.d	YG18055-003	POTW.230718-003	04-Aug-2023 00:03:30	09:46:00
Client	100803B26.d	YG18070-001	001	04-Aug-2023 00:28:30	10:11:00
Client	100803B27.d	YG21027-003	Sampling point C_07	04-Aug-2023 00:52:30	10:35:00

Report Date: 15-Aug-2023 11:30:26 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

Form 5 MS Tune Report

Data File:	\\Organics\HH\chem\msd10.i\10081423.b\10081401.d		
Injection Date:	14-Aug-2023 09:28:30	Inst. ID:	msd10.i
Method:	8270E-tun.m	Tune Type:	DFTPP
Client ID:	DFTPPAA	Lab ID:	SVMS 6559
Sample Info:	10081423.b, SVMS 6559		
Injection Vol.		Dil. Factor:	1.0
Operator:	JCG		
Column:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan

m/z	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% relative abundance	100.0
68	Less than 2.00% of mass 69	0.0 (0.0) 1
69	Present	61.4
70	Less than 2.00% of mass 69	0.3 (0.5) 1
197	Less than 2.00% of mass 198	0.0
199	5.00 - 9.00% of mass 198	6.6
365	Greater than 1.00% of mass 198	1.5
441	Less than 150.00% of mass 443	5.9 (76.3) 2
442	Present	40.8
443	15.00 - 24.00% of mass 442	7.7 (18.9) 3

1-Value is % Mass 69 2-Value is % Mass 443 3-Value is % Mass 442

Sample Type	Data File	Lab Sample ID	Client Sample ID	Injection Date/Time	Tune Clock (HH:MM:SS)
DFTPP	10081401.d	SVMS 6559	DFTPPAA	14-Aug-2023 09:28:30	00:00:00
Ccv	10081402.d	SVMS 6677	1STD010AB	14-Aug-2023 10:05:30	00:37:00
Ccv	10081403.d	SVMS 6581	3STD020AC	14-Aug-2023 10:30:30	01:02:00
Ical	10081404.d	SVMS 6664	2STD001AD	14-Aug-2023 10:55:30	01:27:00
Ical	10081405.d	SVMS 6665	2STD002AD	14-Aug-2023 11:19:30	01:51:00
Ical	10081406.d	SVMS 6666	2STD005AD	14-Aug-2023 11:44:30	02:16:00
Ical	10081407.d	SVMS 6667	2STD010AD	14-Aug-2023 12:09:30	02:41:00
Ical	10081408.d	SVMS 6668	2STD015AD	14-Aug-2023 12:34:30	03:06:00
Ical	10081409.d	SVMS 6669	2STD020Ad	14-Aug-2023 12:59:30	03:31:00
Ical	10081410.d	SVMS 6670	2STD025AD	14-Aug-2023 13:24:30	03:56:00
BLANK	10081411.d	SVMS 6671	2STDICV	14-Aug-2023 13:48:30	04:20:00
Client	10081412.d	SVMS 6675	LLCheck	14-Aug-2023 14:13:30	04:45:00
BLANK	10081413.d	YQ80003-001	SBLK03	14-Aug-2023 14:38:30	05:10:00
LCS	10081414.d	YQ80003-002	SLCS03	14-Aug-2023 15:03:30	05:35:00
BLANK	10081415.d	YQ81473-001	SBLK73	14-Aug-2023 15:28:30	06:00:00
LCS	10081416.d	YQ81473-002	SLCS73	14-Aug-2023 15:53:30	06:25:00
LCSD	10081417.d	YQ81473-003	SLCSD73	14-Aug-2023 16:18:30	06:50:00
BLANK	10081418.d	YQ81478-001	SBLK78	14-Aug-2023 16:43:30	07:15:00
LCS	10081419.d	YQ81478-002	SLCS78	14-Aug-2023 17:09:30	07:41:00
Client	10081420.d	YG07046-001	SW-East-1	14-Aug-2023 17:34:30	08:06:00
Client	10081421.d	YG07046-002	SW-West-1	14-Aug-2023 17:59:30	08:31:00
Client	10081422.d	YG07046-001	SW-East-1	14-Aug-2023 18:24:30	08:56:00
Client	10081423.d	YG07046-002	SW-West-1	14-Aug-2023 18:49:30	09:21:00

Sample Type	Data File	Lab Sample ID	Client Sample ID	Injection Date/Time	Tune Clock (HH:MM:SS)
Client	10081424.d	YG28002-001	16C1	14-Aug-2023 19:14:30	09:46:00
Client	10081425.d	YG28002-002	16MW8	14-Aug-2023 19:39:30	10:11:00
Client	10081426.d	YG28002-003	16MW9	14-Aug-2023 20:04:30	10:36:00
Client	10081427.d	YG28002-004	16WC1A	14-Aug-2023 20:29:30	11:01:00
Client	10081428.d	YG28002-005	16WDUP	14-Aug-2023 20:54:30	11:26:00
Client	10081429.d	YG28002-006	16WC1B	14-Aug-2023 21:19:30	11:51:00
MS	10081430.d	YG28002-004MS		14-Aug-2023 21:44:30	12:16:00
MSD	10081431.d	YG28002-004MD		14-Aug-2023 22:09:30	12:41:00
Client	10081432.d	STD 4 CHECK		14-Aug-2023 22:34:30	13:06:00
Client	10081433.d	23-1378		14-Aug-2023 22:59:30	13:31:00
Client	10081434.d	23-1378		14-Aug-2023 23:24:30	13:56:00
Client	10081435.d	23-1378		14-Aug-2023 23:48:30	14:20:00
Client	10081436.d	23-1378		15-Aug-2023 00:13:30	14:45:00

Report Date: 04-Aug-2023 08:50:23 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

Form 8 - Istd Recovery Report

Batch Path: \\Organics\HH\chem\msd10.i\10080323B.b

Instrument: msd10.i.m Method: 8270DLVI-10.m

Column: ZebronZB-SV (0.25 mm) Detector: MS Scan

Initial Calibration Samples

Standard File: /chem/msd10.i/10080323B.b/100803B07.D.d

Injection Date: 03-Aug-2023 16:37:30 Lab ID: SVMS 6677

Sublist: 1STD.sub Sample Type: IcalIS, Level: 5

IS-1: * 16 1,4-Dichlorobenzene-d4 IS-4: * 102 Phenanthrene-d10

IS-2: * 41 Naphthalene-d8 IS-5: * 128 Chrysene-d12

IS-3: * 67 Acenaphthene-d10 IS-6: * 136 Perylene-d12

Lab Sample ID	IS-1 Area	RT	IS-2 Area	RT	IS-3 Area	RT	IS-4 Area	RT	IS-5 Area	RT	IS-6 Area	RT
Std. Results	240714	5.97	1176369	7.00	543204	8.47	651817	9.75	274188	12.66	234565	14.97
Upper Limit	481428	6.47	2352738	7.50	1086408	8.97	1303634	10.25	548376	13.16	469130	15.47
Lower Limit	120357	5.47	588185	6.50	271602	7.97	325909	9.25	137094	12.16	117283	14.47
SVMS 6673	200682	5.96	858987	6.99	477777	8.47	579994	9.75	276542	12.66	217073	14.96
SVMS 6674	229511	5.96	1121400	6.99	582724	8.47	733044	9.75	275346	12.66	216726	14.96
SVMS 6675	261070	5.96	1155964	6.99	593721	8.47	733989	9.75	304011	12.66	249635	14.97
SVMS 6676	232105	5.97	1201377	7.00	588012	8.47	706574	9.75	268314	12.66	236176	14.96
SVMS 6677	240714	5.97	1176369	7.00	543204	8.47	651817	9.75	274188	12.66	234565	14.97
SVMS 6678	234624	5.97	1031175	7.00	452994	8.47	523510	9.75	264702	12.67	231285	14.97
SVMS 6679	262625	5.97	1077908	7.00	489972	8.47	553809	9.75	242051	12.67	214255	14.97
SVMS 6680	267777	5.97	1057422	7.00	465561	8.47	530759	9.75	244396	12.67	211806	14.97
SVMS 6681	263424	5.97	1052330	7.00	448429	8.47	498599	9.75	215064	12.67	188593	14.96
SVMS 6576	194168	5.96	926831	6.99	502603	8.47	622594	9.75	254947	12.66	198547	14.97
SVMS 6577	188575	5.96	1013319	6.99	545727	8.47	683221	9.75	261611	12.66	195580	14.96
SVMS 6578	220980	5.96	1029571	6.99	543783	8.47	688562	9.75	271717	12.66	205854	14.96
SVMS 6579	228690	5.96	1089744	6.99	557489	8.47	717761	9.75	273035	12.66	202146	14.96
SVMS 6580	239668	5.96	1057348	6.99	533288	8.47	685367	9.75	243436	12.66	174045	14.97
SVMS 6581	227065	5.96	1023096	6.99	517520	8.47	661719	9.75	251910	12.66	185144	14.96
SVMS 6582	195853	5.96	1016629	6.99	509722	8.47	636873	9.75	222888	12.66	162620	14.96
SVMS 6583	172357	5.96	1005389	6.99	504302	8.47	621687	9.75	220112	12.66	164492	14.96

AREA UPPER LIMIT = +100% of internal standard area. AREA LOWER LIMIT = - 50% of internal standard area.

RT UPPER LIMIT = + 0.5 minutes of internal standard RT. RT LOWER LIMIT = - 0.5 minutes of internal standard RT.

CCV and Non-CCV Samples

Standard File: /chem/msd10.i/10080323B.b/100803B07.D.d

Injection Date: 03-Aug-2023 16:37:30 Lab ID: SVMS 6677

Sublist: 1STD.sub Sample Type: Ical, Level: 5

Report Date: 04-Aug-2023 08:50:23 AIM Revision: 1.0 07-Jul-2023 13:11:40

IS-1: * 16 1,4-Dichlorobenzene-d4
IS-2: * 41 Naphthalene-d8
IS-3: * 67 Acenaphthene-d10
IS-4: * 102 Phenanthrene-d10
IS-5: * 128 Chrysene-d12
IS-6: * 136 Perylene-d12

Lab Sample ID	IS-1 Area	RT	IS-2 Area	RT	IS-3 Area	RT	IS-4 Area	RT	IS-5 Area	RT	IS-6 Area	RT
Std. Results	240714	5.97	1176369	7.00	543204	8.47	651817	9.75	274188	12.66	234565	14.97
Upper Limit	481428	6.47	2352738	7.50	1086408	8.97	1303634	10.25	548376	13.16	469130	15.47
Lower Limit	120357	5.47	588185	6.50	271602	7.97	325909	9.25	137094	12.16	117283	14.47
23-1378												
SVMS 6682	196127	5.96	948105	6.99	441098	8.47	529420	9.75	234386	12.66	199869	14.96
SVMS 6584	184743	5.96	999345	6.99	509314	8.47	670034	9.75	261055	12.66	191759	14.97
YQ80822-002	221909	5.96	1073497	6.99	472012	8.47	539245	9.75	221194	12.66	170394	14.96
YG10032-002	243051	5.96	1098452	6.99	530351	8.47	666848	9.75	273245	12.67	199549	14.96
YG10032-003	277724	5.96	1226622	6.99	605106	8.47	736329	9.75	276940	12.66	184464	14.96
YG18055-003	238910	5.96	1164664	6.99	573583	8.47	714608	9.75	284515	12.66	209204	14.96
YG18070-001	188602	5.96	1089733	6.99	535381	8.47	682064	9.75	319454	12.66	210057	14.96
YG21027-003	309517	5.96	1274828	6.99	633035	8.47	792342	9.75	321443	12.66	228556	14.96

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.5 minutes of internal standard RT.
RT LOWER LIMIT = - 0.5 minutes of internal standard RT.

Report Date: 15-Aug-2023 11:30:26 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

Form 8 - Istd Recovery Report

Batch Path: \\Organics\HH\chem\msd10.i\10081423.b

Instrument: msd10.i.m Method: 8270DLVI-10.m

Column: ZebronZB-SV (0.25 mm) Detector: MS Scan

Initial Calibration Samples

Standard File: /chem/msd10.i/10081423.b/10081407.D.d

Injection Date: 14-Aug-2023 12:09:30 Lab ID: SVMS 6667

Sublist: MIX2,4,5.sub Sample Type: IcalIS, Level: 5

IS-1: * 16 1,4-Dichlorobenzene-d4 IS-4: * 102 Phenanthrene-d10

IS-2: * 41 Naphthalene-d8 IS-5: * 128 Chrysene-d12

IS-3: * 67 Acenaphthene-d10 IS-6: * 136 Perylene-d12

Lab Sample ID	IS-1 Area	RT	IS-2 Area	RT	IS-3 Area	RT	IS-4 Area	RT	IS-5 Area	RT	IS-6 Area	RT
Std. Results	163330	5.93	771785	6.97	360973	8.45	452286	9.72	193823	12.62	130324	14.91
Upper Limit	326660	6.43	1543570	7.47	721946	8.95	904572	10.22	387646	13.12	260648	15.41
Lower Limit	81665	5.43	385893	6.47	180487	7.95	226143	9.22	96912	12.12	65162	14.41
SVMS 6664	186230	5.93	742103	6.97	361529	8.45	476550	9.72	213324	12.62	138904	14.91
SVMS 6665	185895	5.93	746645	6.97	358564	8.45	463783	9.72	201679	12.62	129625	14.91
SVMS 6666	137997	5.93	737880	6.97	364359	8.45	466466	9.72	206067	12.62	138429	14.91
SVMS 6667	163330	5.93	771785	6.97	360973	8.45	452286	9.72	193823	12.62	130324	14.91
SVMS 6668	158650	5.93	760878	6.97	360359	8.45	430862	9.72	181011	12.62	127150	14.91
SVMS 6669	188494	5.93	783534	6.97	365460	8.45	433876	9.72	182400	12.62	132305	14.91
SVMS 6670	174053	5.93	759489	6.97	349946	8.45	408864	9.72	163898	12.62	121094	14.91

AREA UPPER LIMIT = +100% of internal standard area. AREA LOWER LIMIT = - 50% of internal standard area.

RT UPPER LIMIT = + 0.5 minutes of internal standard RT. RT LOWER LIMIT = - 0.5 minutes of internal standard RT.

CCV and Non-CCV Samples

Standard File: /chem/msd10.i/10080323B.b/100803B07.D.d

Injection Date: 03-Aug-2023 16:37:30 Lab ID: SVMS 6677

Sublist: 1STD.sub Sample Type: Ical, Level: 5

IS-1: * 16 1,4-Dichlorobenzene-d4 IS-4: * 102 Phenanthrene-d10

IS-2: * 41 Naphthalene-d8 IS-5: * 128 Chrysene-d12

IS-3: * 67 Acenaphthene-d10 IS-6: * 136 Perylene-d12

Lab Sample ID	IS-1 Area	RT	IS-2 Area	RT	IS-3 Area	RT	IS-4 Area	RT	IS-5 Area	RT	IS-6 Area	RT
Std. Results	240714	5.93	1176369	6.97	543204	8.45	651817	9.72	274188	12.62	234565	14.92
Upper Limit	481428	6.43	2352738	7.47	1086408	8.95	1303634	10.22	548376	13.12	469130	15.42
Lower Limit	120357	5.43	588185	6.47	271602	7.95	325909	9.22	137094	12.12	117283	14.42
SVMS 6677	263262	5.93	1094249	6.97	512473	8.45	656558	9.72	284985	12.62	174762	14.92
SVMS 6581	171546	5.93	848850	6.97	424221	8.45	567446	9.72	219820	12.62	143531	14.91
SVMS 6671	164117	5.93	743260	6.97	349019	8.45	428956	9.72	190716	12.62	131891	14.91
SVMS 6675	175756	5.94	808662	6.97	400270	8.45	525858	9.72	237784	12.62	156372	14.91
YQ80003-001	158129	5.93	698430	6.97	345416	8.45	463085	9.72	212065	12.62	143970	14.91
YQ80003-002	197230	5.94	866048	6.97	411563	8.45	524170	9.72	238695	12.62	156764	14.91
YQ81473-001	216344	5.93	909078	6.97	443893	8.45	595181	9.72	272160	12.62	181036	14.91
YQ81473-002	233549	5.94	929529	6.97	438976	8.45	540356	9.72	248022	12.62	176777	14.91
YQ81473-003	216205	5.94	889526	6.97	415746	8.45	516917	9.72	246808	12.62	169811	14.91
YQ81478-001	172368	5.93	902630	6.97	450120	8.45	591760	9.72	266129	12.62	175650	14.91
YQ81478-002	217991	5.93	896595	6.97	426350	8.45	509464	9.72	235297	12.62	169212	14.91
YG07046-001	158138	5.93	726436	6.97	360687	8.45	478772	9.72	225297	12.62	154720	14.91
YG07046-002	198167	5.93	781894	6.97	392014	8.45	523858	9.72	239308	12.62	170653	14.91
YG07046-001	186885	5.93	827275	6.97	405444	8.45	545968	9.72	242903	12.62	165450	14.91
YG07046-002	218245	5.94	868073	6.97	439550	8.45	591980	9.72	262271	12.62	191862	14.91

Report Date: 15-Aug-2023 11:30:26 AIM Revision: 1.0 07-Jul-2023 13:11:40

IS-1: * 16 1,4-Dichlorobenzene-d4
IS-2: * 41 Naphthalene-d8
IS-3: * 67 Acenaphthene-d10
IS-4: * 102 Phenanthrene-d10
IS-5: * 128 Chrysene-d12
IS-6: * 136 Perylene-d12

Lab Sample ID	IS-1 Area	RT	IS-2 Area	RT	IS-3 Area	RT	IS-4 Area	RT	IS-5 Area	RT	IS-6 Area	RT
YG28002-001	204371	5.94	800323	6.97	398074	8.45	515852	9.72	230043	12.62	158196	14.91
YG28002-002	195960	5.93	905494	6.97	443999	8.45	578517	9.72	258426	12.62	164981	14.91
YG28002-003	208951	5.93	913557	6.97	462441	8.45	607836	9.72	263409	12.62	160820	14.91
YG28002-004	216473	5.93	907499	6.97	452699	8.45	619307	9.72	266528	12.62	167550	14.91
YG28002-005	203871	5.93	931744	6.97	459966	8.45	607732	9.72	265941	12.62	167821	14.91
YG28002-006	179803	5.93	878185	6.97	434923	8.45	596262	9.72	257086	12.62	168881	14.91
YG28002-004MS	205760	5.93	899824	6.97	420846	8.45	509868	9.72	223904	12.62	168754	14.91
YG28002-004MD	197864	5.93	861455	6.97	400528	8.45	489314	9.72	214487	12.62	158444	14.91
STD 4 CHECK	207937	5.93	868598	6.97	411834	8.45	509610	9.72	219155	12.62	145232	14.91
23-1378												
23-1378												
23-1378												
23-1378												

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.5 minutes of internal standard RT.
RT LOWER LIMIT = - 0.5 minutes of internal standard RT.

RAW SAMPLE DATA

Semivolatile Organic Compounds by GC/MS

Client: TRC Companies | Laboratory ID: YG28002-001
Description: 16C1 | Matrix: Aqueous
Date Sampled: 07/27/2023 1245 | Project Name: RAAP HWMU16
Date Received: 07/28/2023 | Project Number: 547076

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270E	1	08/14/2023 1914	JCG	08/02/2023 1439	81478

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Isosafrole	120-58-1	8270E	10	U	10	0.50	ug/L	1
Pentachloronitrobenzene	82-68-8	8270E	10	U	10	1.0	ug/L	1
Pronamide	23950-58-5	8270E	10	U	10	1.5	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		92	37-129
2-Fluorophenol		58	24-127
Nitrobenzene-d5		101	38-127
Phenol-d5		68	28-128
Terphenyl-d14		122	10-148
2,4,6-Tribromophenol		80	35-144

LOQ = Limit of Quantitation
U = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Pace Environmental Services, LLC
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd10.i\10081423.b\10081424.D		
Lab Sample ID:	YG28002-001	Client Sample ID:	16C1
Injection Date:	14-Aug-2023 19:14:30	Dil. Factor:	1.0
Operator:	JCG	Inst. ID:	msd10.i
Sample Info:	10081423.b, YG28002-001		
Method:	\\Organics\HH\chem\msd10.i\10081423.b\8270DLVI-10.m		
Method Date:	15-Aug-2023 10:32:30	Quant Method:	ISTD
Calib Date:	14-Aug-2023 13:24:30	Calib File:	10081410.D
Sample Type:	Client	ALS Bottle:	21
Cpnd Sublist:	sample.sb		
Matrix/Level:	Water/Low		
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * (Uf * Vt/Vo)/Vi * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	250.00	Volume of sample extracted (mL)
Vi	5.0000	Volume injected (uL)
Cpnd Variable		Local Cpnd Variable

Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	jcg	Review Date:	15-Aug-2023 11:19:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Final Conc ug/L	Flags
* 16 1,4-Dichlorobenzene-d4	152.0	5.943	5.938	0.005	204371	20.000	20.000	
* 41 Naphthalene-d8	136.0	6.976	6.976	0.000	800323	20.000	20.000	
* 67 Acenaphthene-d10	164.0	8.452	8.452	0.000	398074	20.000	20.000	
* 102 Phenanthrene-d10	188.0	9.725	9.725	0.000	515852	20.000	20.000	
* 128 Chrysene-d12	240.0	12.629	12.629	0.000	230043	20.000	20.000	
* 136 Perylene-d12	264.0	14.918	14.924	-0.004	158196	20.000	20.000	
$ 6 2-Fluorophenol	112.0	4.949	4.949	0.000	88827	5.7766	4.6213	
$ 9 Phenol-d5	99.0	5.596	5.596	0.000	139900	6.8334	5.4667	
$ 29 Nitrobenzene-d5	82.0	6.371	6.371	0.000	157667	10.147	8.1175	
$ 56 2-Fluorobiphenyl	172.0	7.842	7.842	0.000	246763	9.1650	7.3320	
57 Isosafrole	131.0		7.890		ND			
$ 88 2,4,6-Tribromophenol	330.0	9.121	9.121	0.000	14205	7.9830	6.3864	
100 Pronamide	173.0		9.533		ND			
101 Pentachloronitrobenzene	237.0		9.554		ND			
$ 117 Terphenyl-d14	244.0	11.201	11.201	0.000	163904	12.163	9.7307	

Compound Type Legend

* - ISTD
$ - Surrogate

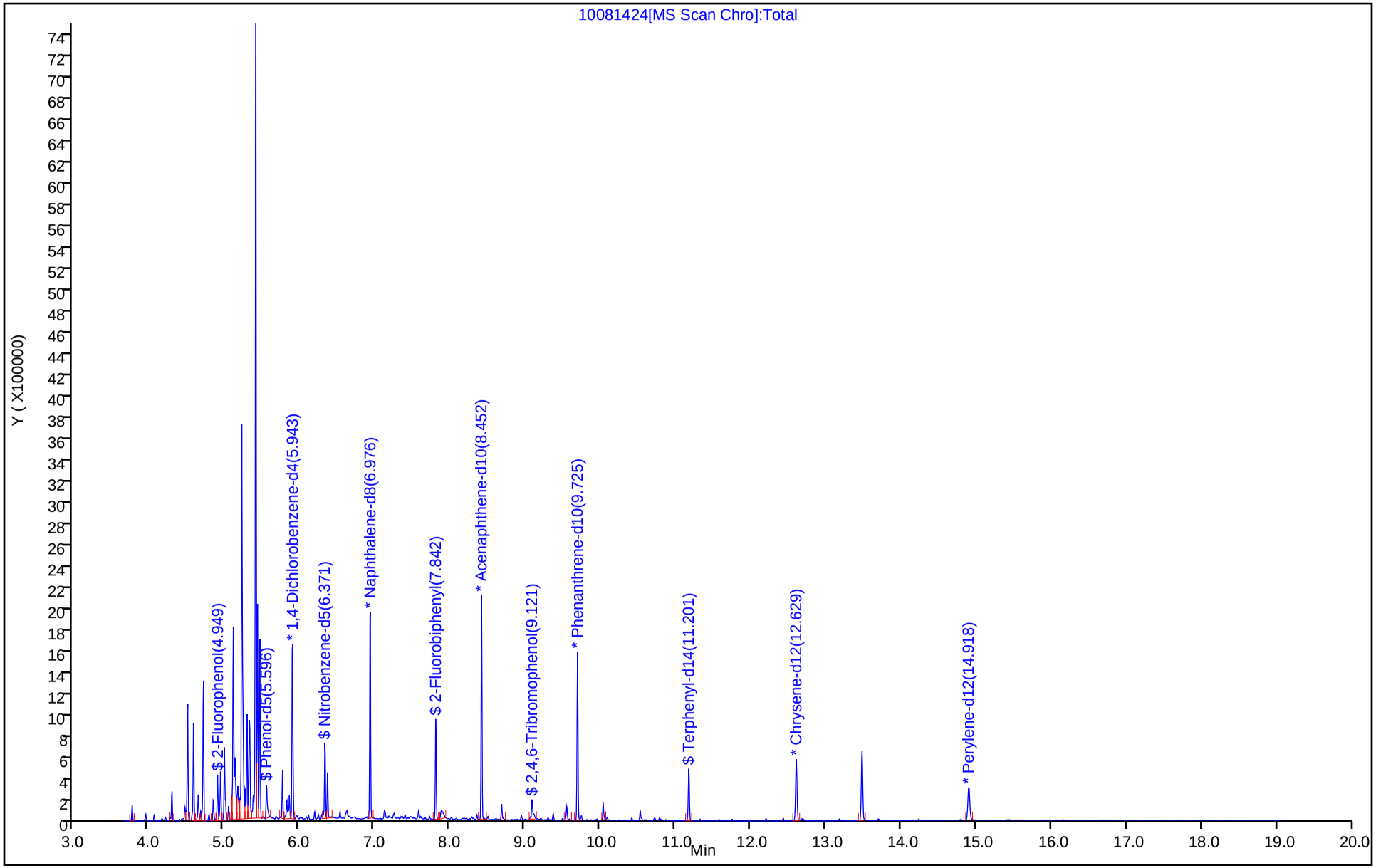
QC Flag Legend

Processing Flags
Review Flags

Report Date: 15-Aug-2023 11:20:25 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

Data File:	\\Organics\HH\chem\msd10.i\10081423.b\10081424.D				
Injection Date:	14-Aug-2023 19:14:30	Inst. ID:	msd10.i	Operator:	JCG
Client ID:	16C1	Lab ID:	YG28002-001		
Sample Info:	10081423.b, YG28002-001				
Injection Vol.	5.00 uL	Dil. Factor:	1.0		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan		



Report Date: 15-Aug-2023 11:20:25 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

Resolution Report

Data File:	\\Organics\HH\chem\msd10.i\10081423.b\10081424.D		
Injection Date:	14-Aug-2023 19:14:30	Inst. ID:	msd10.i
Client ID:	16C1	Lab ID:	YG28002-001
Sample Info:	10081423.b, YG28002-001		
Injection Vol.	5.00 uL	Dil. Factor:	1.0
Operator:	JCG		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan

134 Benzo(k)fluoranthene @ 0.000 - 132 Benzo(b)fluoranthene @ 0.000

SW-846 Method
Version D

%Valley = (V / ((H1 + H2)/2)) * 100

V (Valley Height) = 0
H1(134 Benzo(k)fluoranthen) = 0
H2(132 Benzo(b)fluoranthen) = 0

%Valley = 0 <= 50
Passed

Semivolatile Organic Compounds by GC/MS

Client: TRC Companies | Laboratory ID: YG28002-002
Description: 16MW8 | Matrix: Aqueous
Date Sampled: 07/26/2023 1005 | Project Name: RAAP HWMU16
Date Received: 07/28/2023 | Project Number: 547076

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270E	1	08/14/2023 1939	JCG	08/02/2023 1439	81478

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Isosafrole	120-58-1	8270E	10	U	10	0.50	ug/L	1
Pentachloronitrobenzene	82-68-8	8270E	10	U	10	1.0	ug/L	1
Pronamide	23950-58-5	8270E	10	U	10	1.5	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		76	37-129
2-Fluorophenol		36	24-127
Nitrobenzene-d5		89	38-127
Phenol-d5		68	28-128
Terphenyl-d14		105	10-148
2,4,6-Tribromophenol		70	35-144

LOQ = Limit of Quantitation
U = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Report Date: 15-Aug-2023 11:20:25 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd10.i\10081423.b\10081425.D		
Lab Sample ID:	YG28002-002	Client Sample ID:	16MW8
Injection Date:	14-Aug-2023 19:39:30	Dil. Factor:	1.0
Operator:	JCG	Inst. ID:	msd10.i
Sample Info:	10081423.b, YG28002-002		
Method:	\\Organics\HH\chem\msd10.i\10081423.b\8270DLVI-10.m		
Method Date:	15-Aug-2023 10:32:30	Quant Method:	ISTD
Calib Date:	14-Aug-2023 13:24:30	Calib File:	10081410.D
Sample Type:	Client	ALS Bottle:	22
Cpnd Sublist:	sample.sb		
Matrix/Level:	Water/Low		
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * (Uf * Vt/Vo)/Vi * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	250.00	Volume of sample extracted (mL)
Vi	5.0000	Volume injected (uL)
Cpnd Variable		Local Cpnd Variable

Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	jcg	Review Date:	15-Aug-2023 11:19:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Final Conc ug/L	Flags
* 16 1,4-Dichlorobenzene-d4	152.0	5.938	5.938	0.000	195960	20.000	20.000	
* 41 Naphthalene-d8	136.0	6.976	6.976	0.000	905494	20.000	20.000	
* 67 Acenaphthene-d10	164.0	8.452	8.452	0.000	443999	20.000	20.000	
* 102 Phenanthrene-d10	188.0	9.725	9.725	0.000	578517	20.000	20.000	
* 128 Chrysene-d12	240.0	12.629	12.629	0.000	258426	20.000	20.000	
* 136 Perylene-d12	264.0	14.918	14.924	-0.004	164981	20.000	20.000	
$ 6 2-Fluorophenol	112.0	4.948	4.949	0.000	53649	3.6386	2.9109	e
$ 9 Phenol-d5	99.0	5.601	5.596	0.006	134440	6.8486	5.4789	
$ 29 Nitrobenzene-d5	82.0	6.371	6.371	0.000	157299	8.9474	7.1579	
$ 56 2-Fluorobiphenyl	172.0	7.842	7.842	0.000	229290	7.6351	6.1081	
57 Isosafrole	131.0		7.890		ND			
$ 88 2,4,6-Tribromophenol	330.0	9.120	9.121	0.000	14040	7.0356	5.6284	
100 Pronamide	173.0		9.533		ND			
101 Pentachloronitrobenzene	237.0		9.554		ND			
$ 117 Terphenyl-d14	244.0	11.201	11.201	0.000	159415	10.531	8.4247	

Compound Type Legend

* - ISTD

$ - Surrogate

QC Flag Legend

Processing Flags

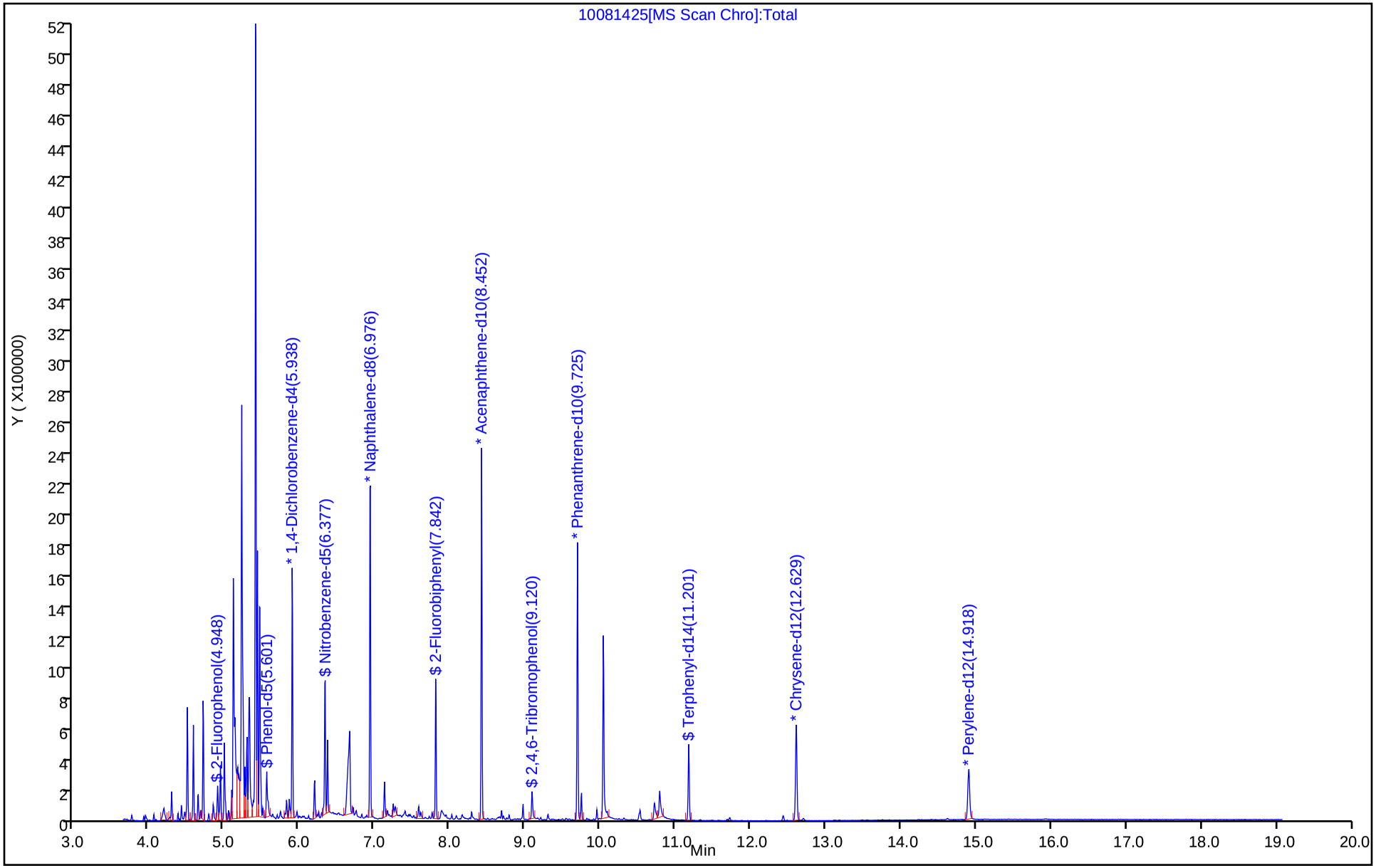
e - Compound Concentration Below Quantitation Limit

Review Flags

Report Date: 15-Aug-2023 11:20:25 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

Data File:	\\Organics\HH\chem\msd10.i\10081423.b\10081425.D				
Injection Date:	14-Aug-2023 19:39:30	Inst. ID:	msd10.i	Operator:	JCG
Client ID:	16MW8	Lab ID:	YG28002-002		
Sample Info:	10081423.b, YG28002-002				
Injection Vol.	5.00 uL	Dil. Factor:	1.0		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan		



Report Date: 15-Aug-2023 11:20:25 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

Resolution Report

Data File:	\\Organics\HH\chem\msd10.i\10081423.b\10081425.D		
Injection Date:	14-Aug-2023 19:39:30	Inst. ID:	msd10.i
Client ID:	16MW8	Lab ID:	YG28002-002
Sample Info:	10081423.b, YG28002-002		
Injection Vol.	5.00 uL	Dil. Factor:	1.0
Operator:	JCG		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan

134 Benzo(k)fluoranthene @ 0.000 - 132 Benzo(b)fluoranthene @ 0.000

SW-846 Method
Version D

%Valley = (V / ((H1 + H2)/2)) * 100

V (Valley Height) = 0
H1(134 Benzo(k)fluoranthen) = 0
H2(132 Benzo(b)fluoranthen) = 0

%Valley = 0 <= 50
Passed

Semivolatile Organic Compounds by GC/MS

Client: TRC Companies | Laboratory ID: YG28002-003
Description: 16MW9 | Matrix: Aqueous
Date Sampled: 07/27/2023 1125 | Project Name: RAAP HWMU16
Date Received: 07/28/2023 | Project Number: 547076

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270E	1	08/14/2023 2004	JCG	08/02/2023 1439	81478

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Isosafrole	120-58-1	8270E	10	U	10	0.50	ug/L	1
Pentachloronitrobenzene	82-68-8	8270E	10	U	10	1.0	ug/L	1
Pronamide	23950-58-5	8270E	10	U	10	1.5	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		70	37-129
2-Fluorophenol		35	24-127
Nitrobenzene-d5		86	38-127
Phenol-d5		60	28-128
Terphenyl-d14		101	10-148
2,4,6-Tribromophenol		64	35-144

LOQ = Limit of Quantitation
U = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Report Date: 15-Aug-2023 11:20:25 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd10.i\10081423.b\10081426.D		
Lab Sample ID:	YG28002-003	Client Sample ID:	16MW9
Injection Date:	14-Aug-2023 20:04:30	Dil. Factor:	1.0
Operator:	JCG	Inst. ID:	msd10.i
Sample Info:	10081423.b, YG28002-003		
Method:	\\Organics\HH\chem\msd10.i\10081423.b\8270DLVI-10.m		
Method Date:	15-Aug-2023 10:32:30	Quant Method:	ISTD
Calib Date:	14-Aug-2023 13:24:30	Calib File:	10081410.D
Sample Type:	Client	ALS Bottle:	23
Cpnd Sublist:	sample.sb		
Matrix/Level:	Water/Low		
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * (Uf * Vt/Vo)/Vi * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	250.00	Volume of sample extracted (mL)
Vi	5.0000	Volume injected (uL)
Cpnd Variable		Local Cpnd Variable

Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	jcg	Review Date:	15-Aug-2023 11:19:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Final Conc ug/L	Flags
* 16 1,4-Dichlorobenzene-d4	152.0	5.938	5.938	0.000	208951	20.000	20.000	
* 41 Naphthalene-d8	136.0	6.976	6.976	0.000	913557	20.000	20.000	
* 67 Acenaphthene-d10	164.0	8.452	8.452	0.000	462441	20.000	20.000	
* 102 Phenanthrene-d10	188.0	9.725	9.725	0.000	607836	20.000	20.000	
* 128 Chrysene-d12	240.0	12.629	12.629	0.000	263409	20.000	20.000	
* 136 Perylene-d12	264.0	14.918	14.924	-0.004	160820	20.000	20.000	
$ 6 2-Fluorophenol	112.0	4.949	4.949	0.000	54448	3.4632	2.7706	e
$ 9 Phenol-d5	99.0	5.601	5.596	0.006	125623	6.0015	4.8012	
$ 29 Nitrobenzene-d5	82.0	6.371	6.371	0.000	152279	8.5854	6.8683	
$ 56 2-Fluorobiphenyl	172.0	7.842	7.842	0.000	219559	7.0195	5.6156	
57 Isosafrole	131.0		7.890		ND			
$ 88 2,4,6-Tribromophenol	330.0	9.126	9.121	0.005	13469	6.4239	5.1391	
100 Pronamide	173.0		9.533		ND			
101 Pentachloronitrobenzene	237.0		9.554		ND			
$ 117 Terphenyl-d14	244.0	11.201	11.201	0.000	155084	10.051	8.0408	

Compound Type Legend

* - ISTD

$ - Surrogate

QC Flag Legend

Processing Flags

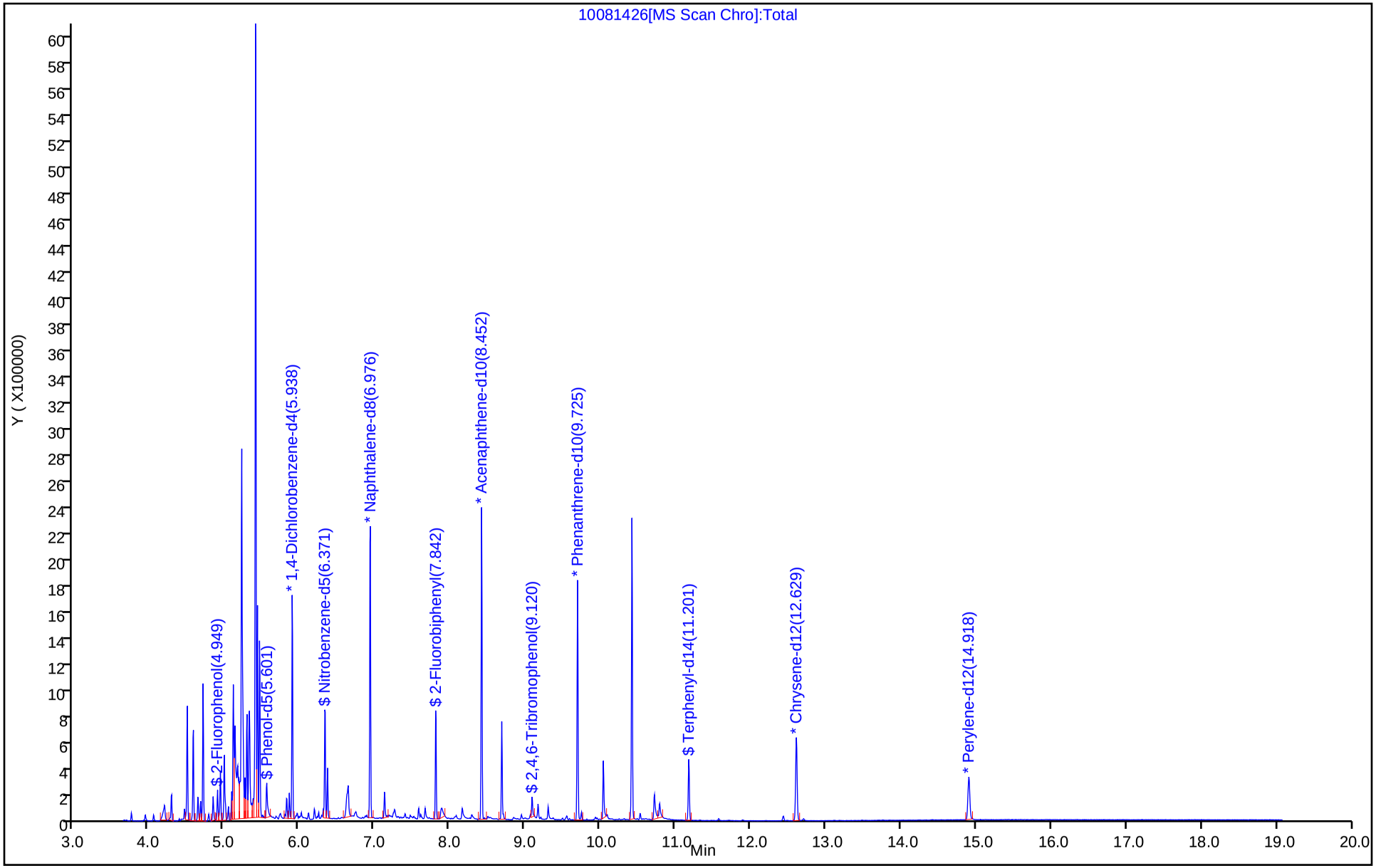
e - Compound Concentration Below Quantitation Limit

Review Flags

Report Date: 15-Aug-2023 11:20:25 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

Data File:	\\Organics\HH\chem\msd10.i\10081423.b\10081426.D				
Injection Date:	14-Aug-2023 20:04:30	Inst. ID:	msd10.i	Operator:	JCG
Client ID:	16MW9	Lab ID:	YG28002-003		
Sample Info:	10081423.b, YG28002-003				
Injection Vol.	5.00 uL	Dil. Factor:	1.0		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan		



Report Date: 15-Aug-2023 11:20:25 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

Resolution Report

Data File:	\\Organics\HH\chem\msd10.i\10081423.b\10081426.D		
Injection Date:	14-Aug-2023 20:04:30	Inst. ID:	msd10.i
Client ID:	16MW9	Lab ID:	YG28002-003
Sample Info:	10081423.b, YG28002-003		
Injection Vol.	5.00 uL	Dil. Factor:	1.0
Operator:	JCG		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan

134 Benzo(k)fluoranthene @ 0.000 - 132 Benzo(b)fluoranthene @ 0.000

SW-846 Method
Version D

%Valley = (V / ((H1 + H2)/2)) * 100

V (Valley Height) = 0
H1(134 Benzo(k)fluoranthen) = 0
H2(132 Benzo(b)fluoranthen) = 0

%Valley = 0 <= 50
Passed

Semivolatile Organic Compounds by GC/MS

Client: TRC Companies | Laboratory ID: YG28002-004
Description: 16WC1A | Matrix: Aqueous
Date Sampled: 07/27/2023 0955 | Project Name: RAAP HWMU16
Date Received: 07/28/2023 | Project Number: 547076

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270E	1	08/14/2023 2029	JCG	08/02/2023 1439	81478

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Isosafrole	120-58-1	8270E	10	U	10	0.50	ug/L	1
Pentachloronitrobenzene	82-68-8	8270E	10	U	10	1.0	ug/L	1
Pronamide	23950-58-5	8270E	10	U	10	1.5	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		74	37-129
2-Fluorophenol		30	24-127
Nitrobenzene-d5		86	38-127
Phenol-d5		59	28-128
Terphenyl-d14		101	10-148
2,4,6-Tribromophenol		68	35-144

LOQ = Limit of Quantitation
U = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Report Date: 15-Aug-2023 11:20:25 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd10.i\10081423.b\10081427.D		
Lab Sample ID:	YG28002-004	Client Sample ID:	16WC1A
Injection Date:	14-Aug-2023 20:29:30	Dil. Factor:	1.0
Operator:	JCG	Inst. ID:	msd10.i
Sample Info:	10081423.b, YG28002-004		
Method:	\\Organics\HH\chem\msd10.i\10081423.b\8270DLVI-10.m		
Method Date:	15-Aug-2023 10:32:30	Quant Method:	ISTD
Calib Date:	14-Aug-2023 13:24:30	Calib File:	10081410.D
Sample Type:	Client	ALS Bottle:	24
Cpnd Sublist:	sample.sb		
Matrix/Level:	Water/Low		
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * (Uf * Vt/Vo)/Vi * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	250.00	Volume of sample extracted (mL)
Vi	5.0000	Volume injected (uL)
Cpnd Variable		Local Cpnd Variable

Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	jcg	Review Date:	15-Aug-2023 11:19:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Final Conc ug/L	Flags
* 16 1,4-Dichlorobenzene-d4	152.0	5.938	5.938	0.000	216473	20.000	20.000	
* 41 Naphthalene-d8	136.0	6.976	6.976	0.000	907499	20.000	20.000	
* 67 Acenaphthene-d10	164.0	8.452	8.452	0.000	452699	20.000	20.000	
* 102 Phenanthrene-d10	188.0	9.725	9.725	0.000	619307	20.000	20.000	
* 128 Chrysene-d12	240.0	12.629	12.629	0.000	266528	20.000	20.000	
* 136 Perylene-d12	264.0	14.918	14.924	-0.004	167550	20.000	20.000	
$ 6 2-Fluorophenol	112.0	4.949	4.949	0.000	48365	2.9694	2.3755	e
$ 9 Phenol-d5	99.0	5.601	5.596	0.006	128566	5.9287	4.7430	
$ 29 Nitrobenzene-d5	82.0	6.371	6.371	0.000	151225	8.5829	6.8663	
$ 56 2-Fluorobiphenyl	172.0	7.842	7.842	0.000	225216	7.3554	5.8843	
57 Isosafrole	131.0		7.890		ND			
$ 88 2,4,6-Tribromophenol	330.0	9.126	9.121	0.005	14427	6.7533	5.4027	
100 Pronamide	173.0		9.533		ND			
101 Pentachloronitrobenzene	237.0		9.554		ND			
$ 117 Terphenyl-d14	244.0	11.201	11.201	0.000	156993	10.056	8.0445	

Compound Type Legend

* - ISTD

$ - Surrogate

QC Flag Legend

Processing Flags

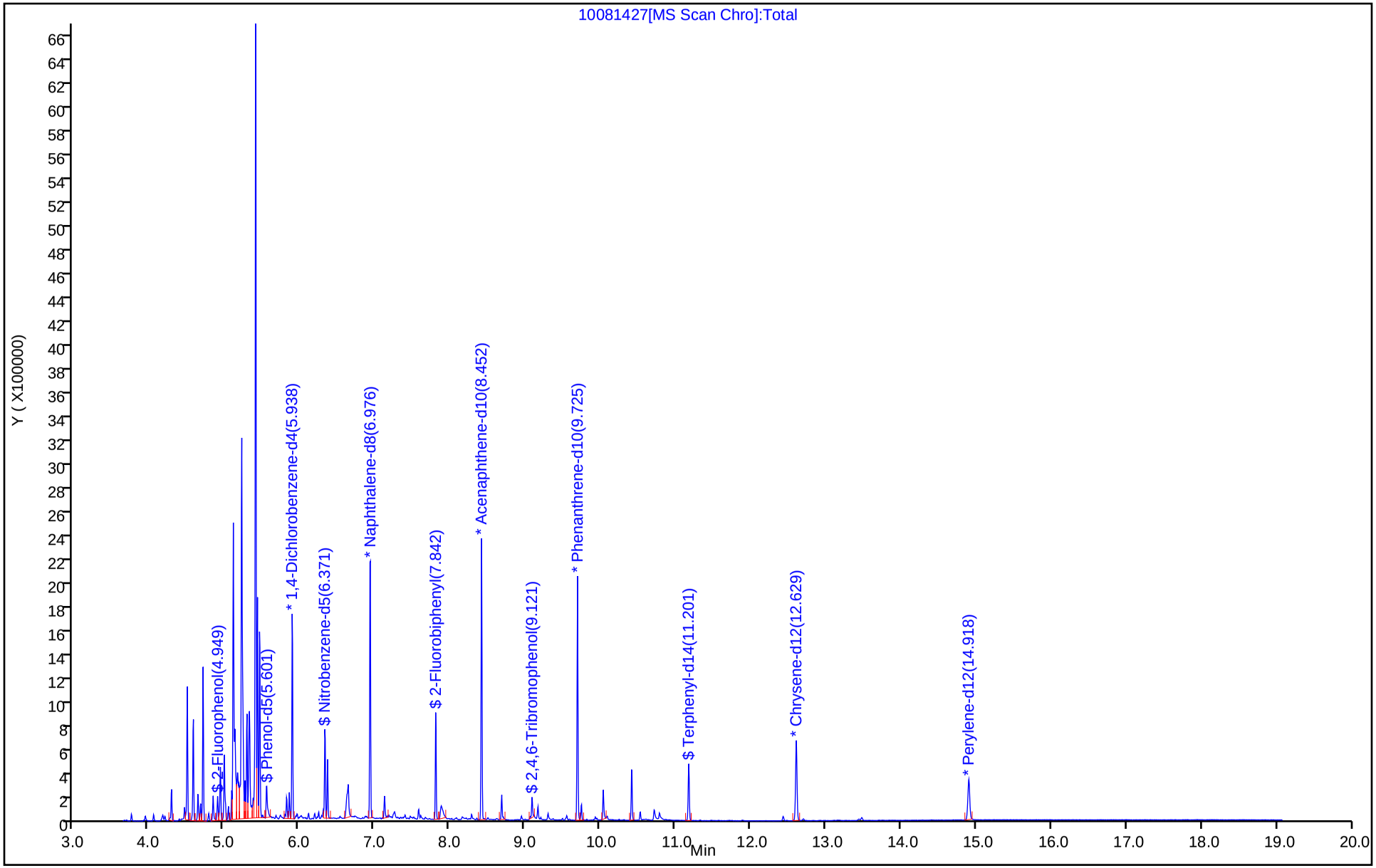
e - Compound Concentration Below Quantitation Limit

Review Flags

Report Date: 15-Aug-2023 11:20:25 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

Data File:	\\Organics\HH\chem\msd10.i\10081423.b\10081427.D				
Injection Date:	14-Aug-2023 20:29:30	Inst. ID:	msd10.i	Operator:	JCG
Client ID:	16WC1A	Lab ID:	YG28002-004		
Sample Info:	10081423.b, YG28002-004				
Injection Vol.	5.00 uL	Dil. Factor:	1.0		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan		



Report Date: 15-Aug-2023 11:20:25 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

Resolution Report

Data File:	\\Organics\HH\chem\msd10.i\10081423.b\10081427.D		
Injection Date:	14-Aug-2023 20:29:30	Inst. ID:	msd10.i
Client ID:	16WC1A	Lab ID:	YG28002-004
Sample Info:	10081423.b, YG28002-004		
Injection Vol.	5.00 uL	Dil. Factor:	1.0
Operator:	JCG		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan

134 Benzo(k)fluoranthene @ 0.000 - 132 Benzo(b)fluoranthene @ 0.000

SW-846 Method
Version D

%Valley = (V / ((H1 + H2)/2)) * 100

V (Valley Height) = 0
H1(134 Benzo(k)fluoranthen) = 0
H2(132 Benzo(b)fluoranthen) = 0

%Valley = 0 <= 50
Passed

Semivolatile Organic Compounds by GC/MS

Client: TRC Companies | Laboratory ID: YG28002-005
Description: 16WDUP | Matrix: Aqueous
Date Sampled: 07/27/2023 1020 | Project Name: RAAP HWMU16
Date Received: 07/28/2023 | Project Number: 547076

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270E	1	08/14/2023 2054	JCG	08/02/2023 1439	81478

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Isosafrole	120-58-1	8270E	10	U	10	0.50	ug/L	1
Pentachloronitrobenzene	82-68-8	8270E	10	U	10	1.0	ug/L	1
Pronamide	23950-58-5	8270E	10	U	10	1.5	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		72	37-129
2-Fluorophenol		31	24-127
Nitrobenzene-d5		85	38-127
Phenol-d5		61	28-128
Terphenyl-d14		101	10-148
2,4,6-Tribromophenol		67	35-144

LOQ = Limit of Quantitation
U = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Pace Environmental Services, LLC
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd10.i\10081423.b\10081428.D		
Lab Sample ID:	YG28002-005	Client Sample ID:	16WDUP
Injection Date:	14-Aug-2023 20:54:30	Dil. Factor:	1.0
Operator:	JCG	Inst. ID:	msd10.i
Sample Info:	10081423.b, YG28002-005		
Method:	\\Organics\HH\chem\msd10.i\10081423.b\8270DLVI-10.m		
Method Date:	15-Aug-2023 10:32:30	Quant Method:	ISTD
Calib Date:	14-Aug-2023 13:24:30	Calib File:	10081410.D
Sample Type:	Client	ALS Bottle:	25
Cpnd Sublist:	sample.sb		
Matrix/Level:	Water/Low		
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * (Uf * Vt/Vo)/Vi * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	250.00	Volume of sample extracted (mL)
Vi	5.0000	Volume injected (uL)
Cpnd Variable		Local Cpnd Variable

Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	jcg	Review Date:	15-Aug-2023 11:20:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Final Conc ug/L	Flags
* 16 1,4-Dichlorobenzene-d4	152.0	5.938	5.938	0.000	203871	20.000	20.000	
* 41 Naphthalene-d8	136.0	6.976	6.976	0.000	931744	20.000	20.000	
* 67 Acenaphthene-d10	164.0	8.452	8.452	0.000	459966	20.000	20.000	
* 102 Phenanthrene-d10	188.0	9.725	9.725	0.000	607732	20.000	20.000	
* 128 Chrysene-d12	240.0	12.629	12.629	0.000	265941	20.000	20.000	
* 136 Perylene-d12	264.0	14.918	14.924	-0.004	167821	20.000	20.000	
$ 6 2-Fluorophenol	112.0	4.949	4.949	0.000	47492	3.0961	2.4769	e
$ 9 Phenol-d5	99.0	5.596	5.596	0.000	124803	6.1109	4.8888	
$ 29 Nitrobenzene-d5	82.0	6.371	6.371	0.000	153388	8.4791	6.7833	
$ 56 2-Fluorobiphenyl	172.0	7.842	7.842	0.000	223542	7.1853	5.7483	
57 Isosafrole	131.0		7.890		ND			
$ 88 2,4,6-Tribromophenol	330.0	9.126	9.121	0.005	14106	6.7288	5.3831	
100 Pronamide	173.0		9.533		ND			
101 Pentachloronitrobenzene	237.0		9.554		ND			
$ 117 Terphenyl-d14	244.0	11.201	11.201	0.000	157547	10.113	8.0907	

Compound Type Legend

* - ISTD

$ - Surrogate

QC Flag Legend

Processing Flags

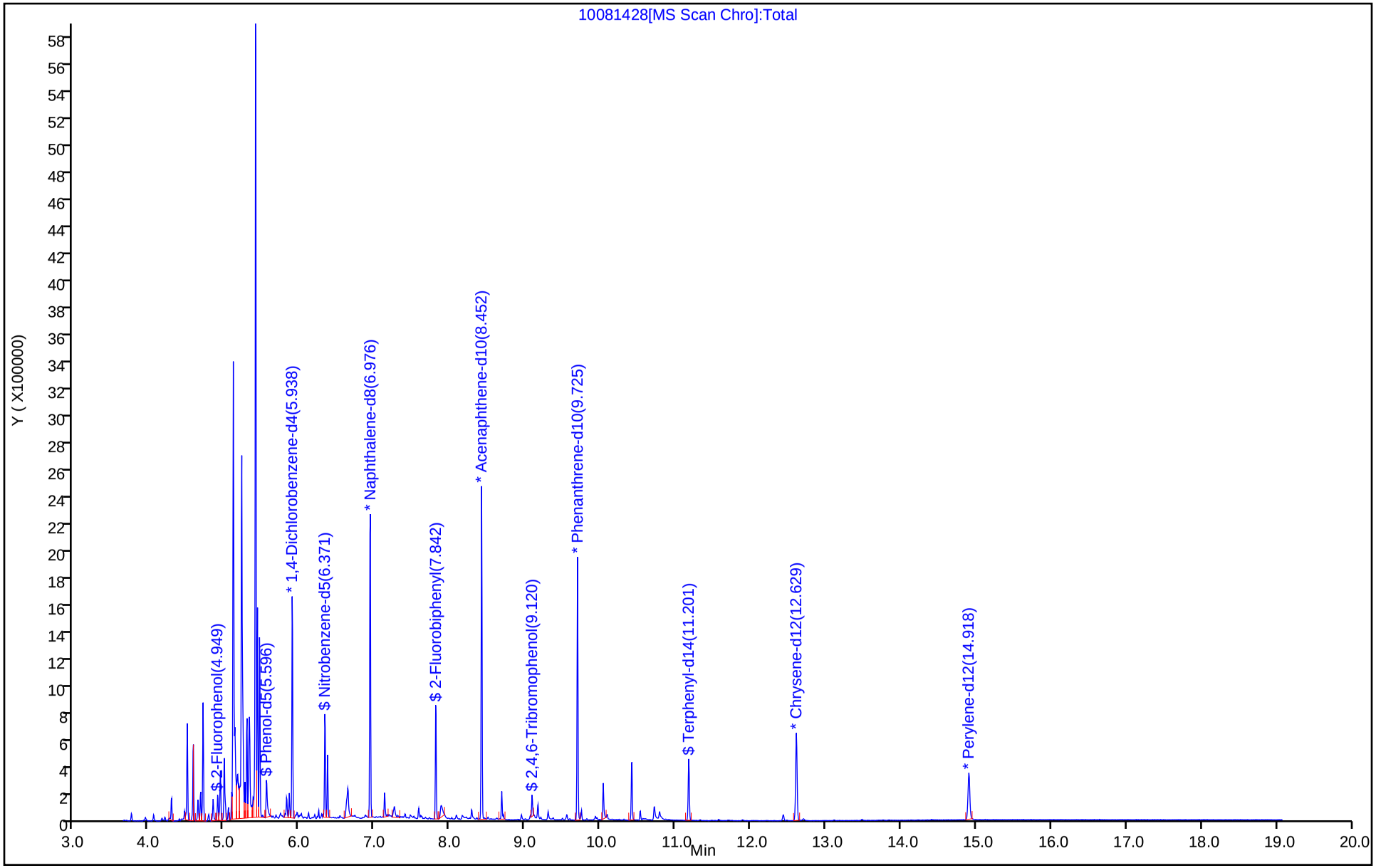
e - Compound Concentration Below Quantitation Limit

Review Flags

Report Date: 15-Aug-2023 11:20:26 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

Data File:	\\Organics\HH\chem\msd10.i\10081423.b\10081428.D				
Injection Date:	14-Aug-2023 20:54:30	Inst. ID:	msd10.i	Operator:	JCG
Client ID:	16WDUP	Lab ID:	YG28002-005		
Sample Info:	10081423.b, YG28002-005				
Injection Vol.	5.00 uL	Dil. Factor:	1.0		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan		



Report Date: 15-Aug-2023 11:20:26 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

Resolution Report

Data File:	\\Organics\HH\chem\msd10.i\10081423.b\10081428.D		
Injection Date:	14-Aug-2023 20:54:30	Inst. ID:	msd10.i
Client ID:	16WDUP	Lab ID:	YG28002-005
Sample Info:	10081423.b, YG28002-005		
Injection Vol.	5.00 uL	Dil. Factor:	1.0
Operator:	JCG		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan

134 Benzo(k)fluoranthene @ 0.000 - 132 Benzo(b)fluoranthene @ 0.000

SW-846 Method
Version D

%Valley = (V / ((H1 + H2)/2)) * 100

V (Valley Height) = 0
H1(134 Benzo(k)fluoranthen) = 0
H2(132 Benzo(b)fluoranthen) = 0

%Valley = 0 <= 50
Passed

Semivolatile Organic Compounds by GC/MS

Client: TRC Companies | Laboratory ID: YG28002-006
Description: 16WC1B | Matrix: Aqueous
Date Sampled: 07/26/2023 1205 | Project Name: RAAP HWMU16
Date Received: 07/28/2023 | Project Number: 547076

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270E	1	08/14/2023 2119	JCG	08/02/2023 1439	81478

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Isosafrole	120-58-1	8270E	10	U	10	0.50	ug/L	1
Pentachloronitrobenzene	82-68-8	8270E	10	U	10	1.0	ug/L	1
Pronamide	23950-58-5	8270E	10	U	10	1.5	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		76	37-129
2-Fluorophenol		39	24-127
Nitrobenzene-d5		88	38-127
Phenol-d5		70	28-128
Terphenyl-d14		103	10-148
2,4,6-Tribromophenol		65	35-144

LOQ = Limit of Quantitation
U = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Pace Environmental Services, LLC
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd10.i\10081423.b\10081429.D		
Lab Sample ID:	YG28002-006	Client Sample ID:	16WC1B
Injection Date:	14-Aug-2023 21:19:30	Dil. Factor:	1.0
Operator:	JCG	Inst. ID:	msd10.i
Sample Info:	10081423.b, YG28002-006		
Method:	\\Organics\HH\chem\msd10.i\10081423.b\8270DLVI-10.m		
Method Date:	15-Aug-2023 10:32:30	Quant Method:	ISTD
Calib Date:	14-Aug-2023 13:24:30	Calib File:	10081410.D
Sample Type:	Client	ALS Bottle:	26
Cpnd Sublist:	sample.sb		
Matrix/Level:	Water/Low		
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * (Uf * Vt/Vo)/Vi * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	250.00	Volume of sample extracted (mL)
Vi	5.0000	Volume injected (uL)
Cpnd Variable		Local Cpnd Variable

Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	jcg	Review Date:	15-Aug-2023 11:20:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Final Conc ug/L	Flags
* 16 1,4-Dichlorobenzene-d4	152.0	5.938	5.938	0.000	179803	20.000	20.000	
* 41 Naphthalene-d8	136.0	6.976	6.976	0.000	878185	20.000	20.000	
* 67 Acenaphthene-d10	164.0	8.452	8.452	0.000	434923	20.000	20.000	
* 102 Phenanthrene-d10	188.0	9.725	9.725	0.000	596262	20.000	20.000	
* 128 Chrysene-d12	240.0	12.629	12.629	0.000	257086	20.000	20.000	
* 136 Perylene-d12	264.0	14.919	14.924	-0.004	168881	20.000	20.000	
$ 6 2-Fluorophenol	112.0	4.949	4.949	0.000	52553	3.8846	3.1077	e
$ 9 Phenol-d5	99.0	5.596	5.596	0.000	126417	7.0185	5.6148	
$ 29 Nitrobenzene-d5	82.0	6.371	6.371	0.000	150002	8.7976	7.0381	
$ 56 2-Fluorobiphenyl	172.0	7.842	7.842	0.000	222489	7.5633	6.0506	
57 Isosafrole	131.0		7.890		ND			
$ 88 2,4,6-Tribromophenol	330.0	9.121	9.121	0.000	13383	6.5067	5.2054	
100 Pronamide	173.0		9.533		ND			
101 Pentachloronitrobenzene	237.0		9.554		ND			
$ 117 Terphenyl-d14	244.0	11.201	11.201	0.000	154399	10.253	8.2022	

Compound Type Legend

* - ISTD

$ - Surrogate

QC Flag Legend

Processing Flags

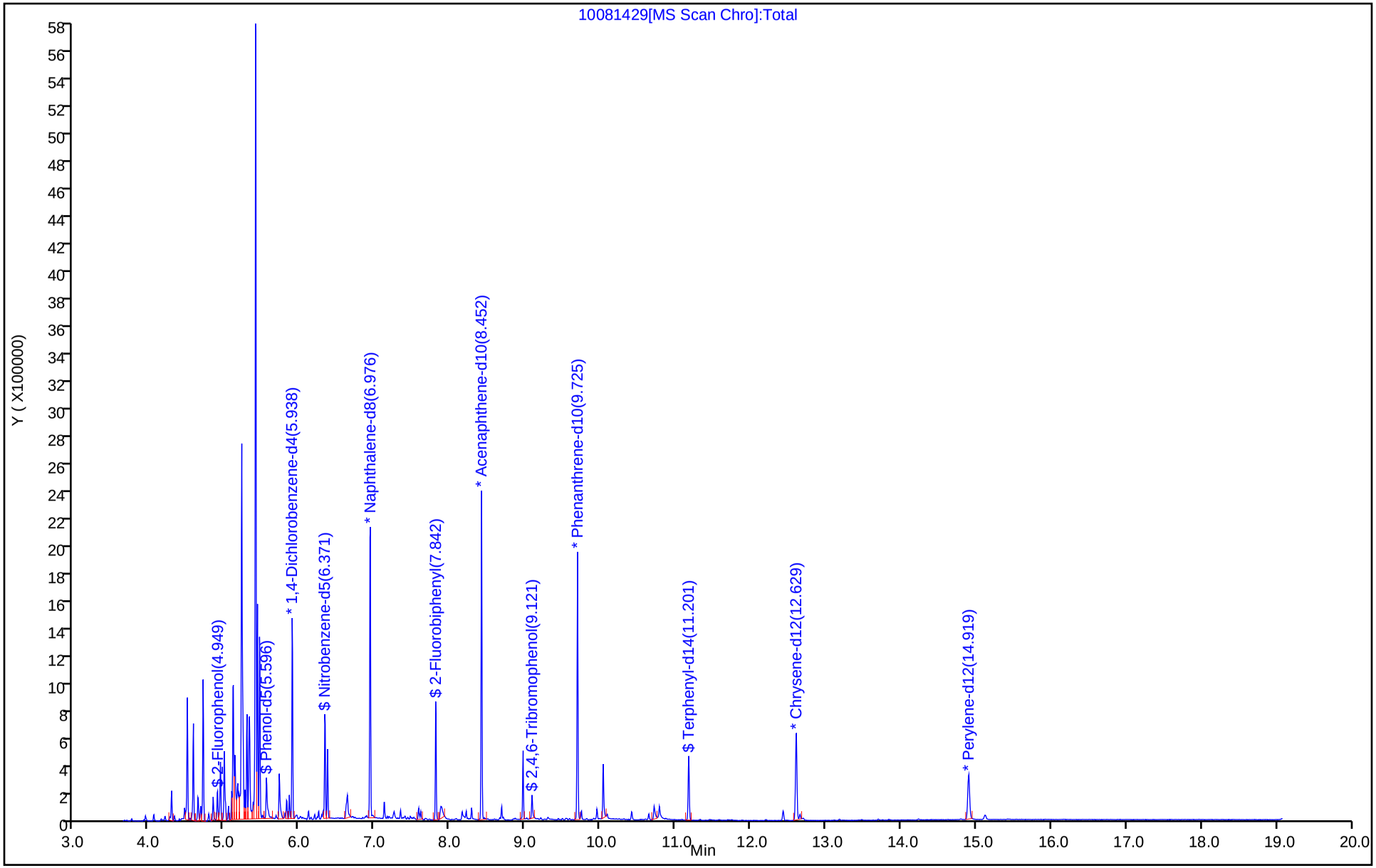
e - Compound Concentration Below Quantitation Limit

Review Flags

Report Date: 15-Aug-2023 11:20:26 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

Data File:	\\Organics\HH\chem\msd10.i\10081423.b\10081429.D				
Injection Date:	14-Aug-2023 21:19:30	Inst. ID:	msd10.i	Operator:	JCG
Client ID:	16WC1B	Lab ID:	YG28002-006		
Sample Info:	10081423.b, YG28002-006				
Injection Vol.	5.00 uL	Dil. Factor:	1.0		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan		



Pace Environmental Services, LLC

Resolution Report

Data File:	\\Organics\HH\chem\msd10.i\10081423.b\10081429.D		
Injection Date:	14-Aug-2023 21:19:30	Inst. ID:	msd10.i
Client ID:	16WC1B	Lab ID:	YG28002-006
Sample Info:	10081423.b, YG28002-006		
Injection Vol.	5.00 uL	Dil. Factor:	1.0
Operator:	JCG		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan

134 Benzo(k)fluoranthene @ 0.000 - 132 Benzo(b)fluoranthene @ 0.000

SW-846 Method
Version D

%Valley = (V / ((H1 + H2)/2)) * 100

V (Valley Height) = 0
H1(134 Benzo(k)fluoranthen) = 0
H2(132 Benzo(b)fluoranthen) = 0

%Valley = 0 <= 50
Passed

CALIBRATION DATA

Report Date: 04-Aug-2023 08:50:23 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC
Form 6

Batch: \\Organics\HH\chem\msd10.i\10080323B.b
Method: 8270DLVI-10.M Instrument: msd10.i
Cal Start Date: 03-Aug-2023 14:58:30 Cal End Date: 03-Aug-2023 22:00:30
Last Modified: 04-Aug-2023 08:49:30
No.Compounds: 177 Integrator: falcon

Column1: ZebronZB-SV (0.25 mm) Detector: MS Scan

Compound	Level 1 / %Drift	Level 2 / %Drift	Level 3 / %Drift	Level 4 / %Drift	Level 5 / %Drift	Level 6 / %Drift	Level 7 / %Drift	Level 8 / %Drift	Level 9 / %Drift	B	M1	Curve	RSD/RSE	R^2	Flags
S 214 Total PAHs	38.2072										38.2072	Avg	0.0		
193 1,4-Dioxane		0.208705	0.204236	0.208509	0.251203	0.231008	0.230641	0.184028	0.169891		0.211027	Avg	12.5		
		-1.1	-3.2	-1.2	19	9.5	9.3	-12.8	-19.5						
2 N-Nitrosodimethylamine		1.057291	0.881794	0.861162	0.862094	0.851717	0.842791	0.841847	0.840518		0.879902	Avg	8.3		
		20.2	0.2	-2.1	-2	-3.2	-4.2	-4.3	-4.5						
1 pyridine		0.475881	0.652354	0.666888	0.792459	0.755956	0.692516			0.017133	0.751873	WLn	6.4	0.995	
		-2.4	3.9	-4.4	8.8	2.8	-6.2								
$ 6 2-Fluorophenol		1.263382	1.297660	1.656233	1.688228	1.612356	1.540904	1.483375	1.496429		1.504821	Avg	10.4		
		-16	-13.8	10.1	12.2	7.1	2.4	-1.4	-0.6						
$ 9 Phenol-d5		1.515047	1.724863	2.198970	2.292380	2.160529	2.083671	2.009783	2.042841		2.003511	Avg	12.9		
		-24.4	-13.9	9.8	14.4	7.8	4	0.3	2						
11 Aniline		0.663323	0.687440	0.875552	0.905514	0.872062	0.847143	0.799241	0.808843		0.807390	Avg	11.0		
		-17.8	-14.9	8.4	12.2	8	4.9	-1	0.2						
10 Phenol		1.690202	1.697744	2.181892	2.236314	2.206998	2.171096	2.052666	2.090847		2.040970	Avg	10.9		
		-17.2	-16.8	6.9	9.6	8.1	6.4	0.6	2.4						
199 Benzaldehyde		1.031375	1.136683	1.085220	1.095894	1.087961	1.097672	1.178145	1.270661		1.122951	Avg	6.5		
		-8.2	1.2	-3.4	-2.4	-3.1	-2.3	4.9	13.2						
12 bis(2-Chloroethyl)ethe		1.378060	1.306929	1.609254	1.619382	1.506183	1.404219	1.361395	1.384632		1.446257	Avg	8.1		
		-4.7	-9.6	11.3	12	4.1	-2.9	-5.9	-4.3						
201 n-Decane		1.480016	1.701536	1.641050	2.082122	1.833885	2.023139	1.592289	1.515063		1.733638	Avg	13.0		
		-14.6	-1.9	-5.3	20.1	5.8	16.7	-8.2	-12.6						
13 2-Chlorophenol		1.255800	1.326119	1.625661	1.667597	1.585334	1.512251	1.450664	1.484408		1.488479	Avg	9.6		
		-15.6	-10.9	9.2	12	6.5	1.6	-2.5	-0.3						
14 1,3-Dichlorobenzene		1.358018	1.400621	1.373413	1.386675	1.450821	1.495235	1.491035	1.523058		1.434859	Avg	4.4		
		-5.4	-2.4	-4.3	-3.4	1.1	4.2	3.9	6.1						
17 1,4-Dichlorobenzene		1.511213	1.522465	1.504061	1.515998	1.616186	1.613346	1.616742	1.641491		1.567688	Avg	3.8		
		-3.6	-2.9	-4.1	-3.3	3.1	2.9	3.1	4.7						
18 Benzyl alcohol				0.350927	0.653265	0.645043	0.675008	0.598776	0.616932		0.589992	Avg	20.4		
				*-40.5	10.7	9.3	14.4	1.5	4.6						
19 1,2-Dichlorobenzene		1.382243	1.378404	1.419892	1.569148	1.614816	1.566309	1.522834	1.551709		1.500670	Avg	6.2		
		-7.9	-8.1	-5.4	4.6	7.6	4.4	1.5	3.4						

Report Date: 04-Aug-2023 08:50:23 AIM Revision: 1.0 07-Jul-2023 13:11:40
Method Path: \\Organics\HH\chem\msd10.i\10080323B.b\8270DLVI-10.m
Column1: ZebronZB-SV (0.25 mm) Detector: MS Scan

Compound	Level 1 / %Drift	Level 2 / %Drift	Level 3 / %Drift	Level 4 / %Drift	Level 5 / %Drift	Level 6 / %Drift	Level 7 / %Drift	Level 8 / %Drift	Level 9 / %Drift	B	M1	Curve	RSD/RSE	R^2	Flags
20 o-Cresol		1.156197	1.421420	1.605446	1.788305	1.702565	1.651949	1.562772	1.561012		1.556208	Avg	12.5		
		-25.7	-8.7	3.2	14.9	9.4	6.2	0.4	0.3						
21 bis(2Chloro1methylethy		3.524798	3.363964	3.747787	3.647324	3.449855	3.263330	3.115091	3.153760		3.408238	Avg	6.7		
		3.4	-1.3	10	7	1.2	-4.3	-8.6	-7.5						
23 m+p-Cresol		1.245692	1.355001	1.829448	1.768896	1.780329	1.668413	1.680721	1.709077		1.629697	Avg	13.0		
		-23.6	-16.9	12.3	8.5	9.2	2.4	3.1	4.9						
26 n-Nitroso-di-n-propyla		1.151927	1.234496	1.448551	1.459483	1.360668	1.335040	1.264658	1.275303		1.316266	Avg	8.0		
		-12.5	-6.2	10.1	10.9	3.4	1.4	-3.9	-3.1						
24 Acetophenone		1.907795	1.955491	2.353056	2.338667	2.206992	2.129858	2.051710	2.059306		2.125360	Avg	7.8		
		-10.2	-8	10.7	10	3.8	0.2	-3.5	-3.1						
28 Hexachloroethane		0.517274	0.553568	0.538101	0.542619	0.594637	0.587495	0.582515	0.599720		0.564491	Avg	5.4		
		-8.4	-1.9	-4.7	-3.9	5.3	4.1	3.2	6.2						
$ 29 Nitrobenzene-d5	0.276605	0.323578	0.369423	0.385911	0.415082	0.444512	0.429774	0.424854	0.425022		0.388307	Avg	14.5		
	-28.8	-16.7	-4.9	-0.6	6.9	14.5	10.7	9.4	9.5						
30 Nitrobenzene		0.308543	0.345374	0.368281	0.383630	0.411829	0.420890	0.410727	0.409384		0.382332	Avg	10.3		
		-19.3	-9.7	-3.7	0.3	7.7	10.1	7.4	7.1						
32 Isophorone		0.608097	0.668204	0.673690	0.698196	0.713976	0.744747	0.724015	0.725565		0.694561	Avg	6.3		
		-12.4	-3.8	-3	0.5	2.8	7.2	4.2	4.5						
34 2,4-Dimethylphenol		0.207152	0.231945	0.226717	0.222911	0.219359	0.221422	0.209555	0.212707		0.218971	Avg	3.9		
		-5.4	5.9	3.5	1.8	0.2	1.1	-4.3	-2.9						
33 2-Nitrophenol		0.135616	0.155956	0.163226	0.179794	0.186479	0.194612	0.192443	0.193513		0.175205	Avg	12.3		
		-22.6	-11	-6.8	2.6	6.4	11.1	9.8	10.4						
35 bis(2-Chloroethoxy)met		0.400143	0.430143	0.436366	0.452919	0.474550	0.489961	0.480800	0.480598		0.455685	Avg	6.9		
		-12.2	-5.6	-4.2	-0.6	4.1	7.5	5.5	5.5						
36 Benzoic acid			0.146224	0.190208	0.231680	0.254271	0.277194	0.263424	0.270119	0.112102	0.278644	WLn	6.6	0.997	
			8.5	-9.3	-5.6	-1.3	5.1	-1	0.7						
38 2,4-Dichlorophenol		0.203175	0.219661	0.228468	0.239889	0.243412	0.256604	0.253221	0.250603		0.236879	Avg	7.8		
		-14.2	-7.3	-3.6	1.3	2.8	8.3	6.9	5.8						
40 1,2,4-Trichlorobenzene		0.236098	0.240129	0.237944	0.246788	0.255196	0.263846	0.258747	0.256277		0.249378	Avg	4.2		
		-5.3	-3.7	-4.6	-1	2.3	5.8	3.8	2.8						
43 Naphthalene	1.121670	1.033922	1.072127	1.033274	1.087652	1.133128	1.141970	1.126442	1.117198		1.096376	Avg	3.8		
	2.3	-5.7	-2.2	-5.8	-0.8	3.4	4.2	2.7	1.9						
44 4-Chloroaniline		0.212811	0.281965	0.332340	0.407165	0.404745	0.413777	0.413367	0.431120	0.029371	0.427248	WLn	6	0.999	
		8.6	-4.6	-10.5	1.2	-1.4	-0.2	-0.9	2.9						
45 2,6-Dichlorophenol		0.198217	0.223043	0.215756	0.228299	0.235013	0.245036	0.237621	0.240552		0.227942	Avg	6.7		
		-13	-2.1	-5.3	0.2	3.1	7.5	4.2	5.5						
47 Hexachlorobutadiene		0.121544	0.120609	0.117605	0.124748	0.127751	0.130920	0.127161	0.128083		0.124803	Avg	3.6		
		-2.6	-3.4	-5.8	0	2.4	4.9	1.9	2.6						
196 Caprolactam		0.068578	0.085768	0.100127	0.113573	0.113177	0.111132	0.111327	0.111374	0.021203	0.113921	WLn	3	1.000	
		2.6	-3.5	-3.6	3.9	2.2	-0.3	-0.6	-0.8						
49 4-Chloro-3-methylpheno		0.243143	0.262707	0.262975	0.264985	0.269810	0.282603	0.274663	0.269676		0.266320	Avg	4.3		
		-8.7	-1.4	-1.3	-0.5	1.3	6.1	3.1	1.3						

Report Date: 04-Aug-2023 08:50:23 AIM Revision: 1.0 07-Jul-2023 13:11:40
Method Path: \\Organics\HH\chem\msd10.i\10080323B.b\8270DLVI-10.m
Column1: ZebronZB-SV (0.25 mm) Detector: MS Scan

Compound	Level 1 / %Drift	Level 2 / %Drift	Level 3 / %Drift	Level 4 / %Drift	Level 5 / %Drift	Level 6 / %Drift	Level 7 / %Drift	Level 8 / %Drift	Level 9 / %Drift	B	M1	Curve	RSD/RSE	R^2	Flags
51 2-Methylnaphthalene	0.589881	0.608472	0.631438	0.608885	0.626184	0.634691	0.662269	0.641853	0.645134		0.627645	Avg	3.5		
	-6	-3.1	0.6	-3	-0.2	1.1	5.5	2.3	2.8						
204 1-Methylnaphthalene	0.725739	0.606207	0.620236	0.594012	0.614448	0.630261	0.650566	0.637609	0.636666		0.635082	Avg	6.0		
	14.3	-4.5	-2.3	-6.5	-3.2	-0.8	2.4	0.4	0.2						
53 Hexachlorocyclopentadi		0.167935	0.210621	0.244357	0.308909	0.351113	0.342950	0.342885	0.344317	0.169273	0.351109	WLn	10.1	0.997	
		15.5	-6.2	-16.9	-5.2	4.5	1.1	0.4	0.3						
52 1,2,4,5-Tetrachloroben		0.429912	0.427794	0.446528	0.498218	0.536266	0.538174	0.541664	0.556488		0.496880	Avg	10.9		
		-13.5	-13.9	-10.1	0.3	7.9	8.3	9	12						
54 2,4,6-Trichlorophenol		0.220585	0.242235	0.252845	0.285716	0.301299	0.302332	0.297283	0.301507		0.275475	Avg	11.7		
		-19.9	-12.1	-8.2	3.7	9.4	9.7	7.9	9.4						
55 2,4,5-Trichlorophenol		0.230641	0.249326	0.273716	0.306669	0.314206	0.327698	0.326770	0.331687		0.295089	Avg	13.2		
		-21.8	-15.5	-7.2	3.9	6.5	11.1	10.7	12.4						
$ 56 2-Fluorobiphenyl	1.215211	1.189482	1.282606	1.252267	1.368756	1.439407	1.473272	1.452273	1.501433		1.352745	Avg	8.9		
	-10.2	-12.1	-5.2	-7.4	1.2	6.4	8.9	7.4	11						
184 Biphenyl		1.352373	1.420920	1.426882	1.511053	1.580880	1.606984	1.592035	1.629849		1.515122	Avg	6.8		
		-10.7	-6.2	-5.8	-0.3	4.3	6.1	5.1	7.6						
58 2-Chloronaphthalene		1.017120	1.054030	1.051727	1.116100	1.165837	1.165148	1.165464	1.192483		1.115989	Avg	6.0		
		-8.9	-5.6	-5.8	0	4.5	4.4	4.4	6.9						
60 2-Nitroaniline			0.284428	0.321614	0.377898	0.384258	0.382513	0.391399	0.393252		0.362195	Avg	11.6		
			-21.5	-11.2	4.3	6.1	5.6	8.1	8.6						
62 Dimethylphthalate		0.947069	0.968957	1.004401	1.030434	1.059546	1.089679	1.066225	1.074785		1.030137	Avg	5.1		
		-8.1	-5.9	-2.5	0	2.9	5.8	3.5	4.3						
63 m-Dinitrobenzene			0.122229	0.144582	0.171726	0.183652	0.188437	0.186301	0.183252		0.168597	Avg	15.1		
			-27.5	-14.2	1.9	8.9	11.8	10.5	8.7						
65 2,6-Dinitrotoluene			0.218908	0.236648	0.252369	0.260027	0.261533	0.262826	0.263620		0.250847	Avg	6.8		
			-12.7	-5.7	0.6	3.7	4.3	4.8	5.1						
64 Acenaphthylene	1.214793	1.349352	1.477462	1.465542	1.573928	1.634783	1.647762	1.632475	1.668631		1.518303	Avg	10.3		
	-20	-11.1	-2.7	-3.5	3.7	7.7	8.5	7.5	9.9						
66 3-Nitroaniline			0.177598	0.219698	0.270427	0.271123	0.273779	0.267170	0.272102		0.250271	Avg	14.9		
			-29	-12.2	8.1	8.3	9.4	6.8	8.7						
69 2,4-Dinitrophenol			0.061527	0.094927	0.125373	0.141151	0.150788	0.150743	0.151029	0.140474	0.157533	WLn	7.4	0.997	
			9.3	-11.6	-6.4	-1	2.7	1.3	0.6						
68 Acenaphthene	1.197002	1.105429	1.140030	1.094542	1.180772	1.243175	1.271095	1.258418	1.296696		1.198573	Avg	6.2		
	-0.1	-7.8	-4.9	-8.7	-1.5	3.7	6.1	5	8.2						
70 4-Nitrophenol			0.081806	0.089447	0.095529	0.105929	0.108738	0.107333	0.103352		0.098876	Avg	10.4		
			-17.3	-9.5	-3.4	7.1	10	8.6	4.5						
73 2,4-Dinitrotoluene			0.242723	0.263614	0.281802	0.300413	0.307295	0.301728	0.297151		0.284961	Avg	8.4		
			-14.8	-7.5	-1.1	5.4	7.8	5.9	4.3						
71 Dibenzofuran	1.358165	1.339365	1.358551	1.336939	1.403178	1.462462	1.488261	1.483002	1.492299		1.413580	Avg	4.8		
	-3.9	-5.3	-3.9	-5.4	-0.7	3.5	5.3	4.9	5.6						
76 2,3,4,6-Tetrachlorophe		0.151564	0.172691	0.180894	0.206493	0.207517	0.226093	0.216980	0.220847		0.197885	Avg	13.4		
		-23.4	-12.7	-8.6	4.4	4.9	14.3	9.6	11.6						

Report Date: 04-Aug-2023 08:50:23 AIM Revision: 1.0 07-Jul-2023 13:11:40
Method Path: \\Organics\HH\chem\msd10.i\10080323B.b\8270DLVI-10.m
Column1: ZebronZB-SV (0.25 mm) Detector: MS Scan

Compound	Level 1 / %Drift	Level 2 / %Drift	Level 3 / %Drift	Level 4 / %Drift	Level 5 / %Drift	Level 6 / %Drift	Level 7 / %Drift	Level 8 / %Drift	Level 9 / %Drift	B	M1	Curve	RSD/RSE	R^2	Flags
78 Diethylphthalate		0.892052	0.932273	0.930063	0.968822	0.982868	1.009301	0.981022	0.975609		0.959001	Avg	3.9		
		-7	-2.8	-3	1	2.5	5.2	2.3	1.7						
80 4-Chlorophenylphenylet		0.451432	0.470406	0.469331	0.491661	0.517314	0.526779	0.519861	0.522630		0.496177	Avg	5.9		
		-9	-5.2	-5.4	-0.9	4.3	6.2	4.8	5.3						
79 Fluorene	1.115165	1.050446	1.098631	1.076420	1.156928	1.189879	1.197722	1.185457	1.198407		1.141006	Avg	5.0		
	-2.3	-7.9	-3.7	-5.7	1.4	4.3	5	3.9	5						
83 4-Nitroaniline			0.154931	0.204037	0.237393	0.233100	0.232008	0.228256	0.233510		0.217605	Avg	13.7		
			-28.8	-6.2	9.1	7.1	6.6	4.9	7.3						
84 4,6-Dinitro-2-methylph				0.089519	0.112182	0.130858	0.135451	0.136300	0.139092	0.105051	0.149668	WLn	2.4	0.999	
				1.8	-4	1.4	1	-0.5	-0.1						
86 n-Nitrosodiphenylamine		0.520269	0.531275	0.562376	0.586646	0.644244	0.670020	0.634322	0.650055		0.599901	Avg	9.6		
		-13.3	-11.4	-6.3	-2.2	7.4	11.7	5.7	8.4						
87 Azobenzene		0.867533	1.001391	1.029050	1.088852	1.150638	1.227436	1.190846	1.230148		1.098237	Avg	11.6		
		-21	-8.8	-6.3	-0.9	4.8	11.8	8.4	12						
$ 88 2,4,6-Tribromophenol			0.057440	0.061078	0.067197	0.073657	0.076476	0.072343	0.074736		0.068989	Avg	10.6		
			-16.7	-11.5	-2.6	6.8	10.9	4.9	8.3						
94 4-Bromophenylphenyleth		0.156116	0.170193	0.177516	0.185393	0.194337	0.197254	0.193759	0.197527		0.184012	Avg	8.1		
		-15.2	-7.5	-3.5	0.8	5.6	7.2	5.3	7.3						
96 Hexachlorobenzene		0.146212	0.147346	0.151644	0.158575	0.172357	0.171458	0.166151	0.169225		0.160371	Avg	6.8		
		-8.8	-8.1	-5.4	-1.1	7.5	6.9	3.6	5.5						
200 Atrazine		0.126728	0.159099	0.166207	0.184159	0.181530	0.182871	0.182704	0.181312		0.170576	Avg	11.7		
		-25.7	-6.7	-2.6	8	6.4	7.2	7.1	6.3						
202 Octadecane		0.728633	0.788908	0.826761	0.881260	0.922415	0.992440	0.978683	1.013862		0.891620	Avg	11.6		
		-18.3	-11.5	-7.3	-1.2	3.5	11.3	9.8	13.7						
99 Pentachlorophenol			0.068482	0.075836	0.092469	0.104037	0.110141	0.106108	0.103862	0.097669	0.109667	WLn	8.1	0.997	
			11.3	-11.3	-5.9	1.4	5.3	0.7	-2						
103 Phenanthrene	1.116908	1.008371	0.997495	0.982085	1.026313	1.079185	1.102452	1.074832	1.066865		1.050501	Avg	4.6		
	6.3	-4	-5	-6.5	-2.3	2.7	4.9	2.3	1.6						
104 Anthracene	0.870699	0.901719	0.905259	0.933462	0.985936	1.033771	1.045602	1.027529	1.028256		0.970248	Avg	7.0		
	-10.3	-7.1	-6.7	-3.8	1.6	6.5	7.8	5.9	6						
106 Carbazole		0.742466	0.829740	0.845216	0.908230	0.986584	0.967794	0.950717	0.930487		0.895154	Avg	9.3		
		-17.1	-7.3	-5.6	1.5	10.2	8.1	6.2	3.9						
109 Di-n-butylphthalate		0.698130	0.864100	0.931747	1.006847	1.113466	1.117530	1.111652	1.086244		0.991214	Avg	15.3		
		-29.6	-12.8	-6	1.6	12.3	12.7	12.2	9.6						
114 Fluoranthene	0.780180	0.719056	0.774412	0.772692	0.833258	0.916992	0.874816	0.873715	0.840946		0.820674	Avg	7.7		
	-4.9	-12.4	-5.6	-5.8	1.5	11.7	6.6	6.5	2.5						
115 Benzidine		0.101339	0.374824	0.649723	0.863136	0.913198	1.019881	1.066098	1.101173	0.246001	1.069160	WLn	12.2	0.991	
		7.9	-15.7	-19.6	-9.4	-8	0.3	3.6	6.3						
116 Pyrene	1.617837	1.877420	1.883386	1.981604	1.951260	1.811567	1.968399	1.876944	1.913753		1.875797	Avg	5.9		
	-13.8	0.1	0.4	5.6	4	-3.4	4.9	0.1	2						
$ 117 Terphenyl-d14	0.923549	1.160939	1.165155	1.236119	1.230411	1.163326	1.248410	1.204809	1.211137		1.171539	Avg	8.4		
	-21.2	-0.9	-0.5	5.5	5	-0.7	6.6	2.8	3.4						

Report Date: 04-Aug-2023 08:50:23 AIM Revision: 1.0 07-Jul-2023 13:11:40
Method Path: \\Organics\HH\chem\msd10.i\10080323B.b\8270DLVI-10.m
Column1: ZebronZB-SV (0.25 mm) Detector: MS Scan

Compound	Level 1 / %Drift	Level 2 / %Drift	Level 3 / %Drift	Level 4 / %Drift	Level 5 / %Drift	Level 6 / %Drift	Level 7 / %Drift	Level 8 / %Drift	Level 9 / %Drift	B	M1	Curve	RSD/RSE	R^2	Flags
122 Butylbenzylphthalate		0.397028	0.469687	0.572270	0.661028	0.696386	0.740332	0.736005	0.746615	0.030692	0.747246	WLn	8.4	0.998	
		14.5	-6.5	-11.1	-5.4	-2.7	2.1	1	2						
130 bis(2-Ethylhexyl)phtha		0.432910	0.536954	0.652355	0.777525	0.890098	0.920174	0.941492	0.940222	0.036351	0.942564	WLn	11.4	0.995	
		18.6	-6.7	-16.2	-10.2	-0.7	1.3	2.8	2.2						
125 3,3'-Dichlorobenzidine		0.188039	0.264133	0.305730	0.361521	0.343576	0.362733	0.371229	0.371935	0.027579	0.373994	WLn	4.3	0.999	
		5.4	-1.8	-7.2	2.2	-4.5	-0.3	1.5	1.3						
127 Benzo(a)Anthracene	1.363627	1.146775	1.200483	1.211402	1.288123	1.300698	1.322019	1.293553	1.299836		1.269613	Avg	5.4		
	7.4	-9.7	-5.4	-4.6	1.5	2.4	4.1	1.9	2.4						
129 Chrysene	1.374113	1.293282	1.260250	1.235478	1.261470	1.277502	1.290997	1.258322	1.243763		1.277242	Avg	3.2		
	7.6	1.3	-1.3	-3.3	-1.2	0	1.1	-1.5	-2.6						
131 Di-n-octylphthalate		0.820760	1.017405	1.153462	1.463381	1.730684	1.743133	1.792486	1.819636	0.037560	1.805081	WLn	13.2	0.993	
		20.6	-6.1	-21.1	-11.4	0.9	0.3	2.3	3.3						
132 Benzo(b)fluoranthene	0.936091	1.050174	1.101328	1.057347	1.230414	1.284689	1.281478	1.324994	1.341177		1.178632	Avg	12.3		
	-20.6	-10.9	-6.6	-10.3	4.4	9	8.7	12.4	13.8						
134 Benzo(k)fluoranthene	1.263630	1.216190	1.205600	1.170551	1.306836	1.391051	1.429166	1.352245	1.375852		1.301236	Avg	7.1		
	-2.9	-6.5	-7.3	-10	0.4	6.9	9.8	3.9	5.7						
135 Benzo(a)pyrene	0.750899	0.891540	0.927714	0.933219	1.038910	1.063796	1.102938	1.088574	1.102130		0.988858	Avg	12.2		
	-24.1	-9.8	-6.2	-5.6	5.1	7.6	11.5	10.1	11.5						
138 Indeno(1,2,3-c,d)pyren	0.775776	1.033379	1.117111	1.205897	1.323420	1.396874	1.423822	1.352615	1.392515	0.006529	1.381823	WLn	11.3	0.998	
	21.4	-12.2	-12.6	-10.1	-2.9	2	3.7	-1.6	1.2						
139 Dibenzo(a,h)anthracene	0.553270	0.821960	0.916057	1.007655	1.089037	1.177900	1.190259	1.141233	1.187810	0.007465	1.165776	WLn	12.3	0.998	
	22.1	-14.6	-14	-10.6	-5.1	2	2.8	-1.5	2.4						
140 Benzo(g,h,i)perylene	0.691012	0.910827	0.953552	1.027285	1.073604	1.108018	1.123652	1.046913	1.088259		1.002569	Avg	13.6		
	*-31.1	-9.2	-4.9	2.5	7.1	10.5	12.1	4.4	8.5						

Pace Environmental Services, LLC
Initial Calibration RRT Report

Batch: \\Organics\HH\chem\msd10.i\10080323B.b
Method: 8270DLVI-10.M Instrument: msd10.i
Cal Start Date: 03-Aug-2023 14:58:30 Cal End Date: 03-Aug-2023 22:00:30
Last Modified: 04-Aug-2023 08:49:30
No.Compounds: 177 Integrator: falcon

Column1: ZebronZB-SV (0.25 mm) Detector: MS Scan

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8	Level 9	Avg. RRT	Min. RRT	Max. RRT	Flags
S 214 Total PAHs										0.167	0.000	0.167	
193 1,4-Dioxane		0.650	0.650	0.650	0.650	0.649	0.650	0.650	0.650	0.650	0.000	0.650	
2 N-Nitrosodimethylamine		0.683	0.683	0.682	0.682	0.682	0.683	0.683	0.684	0.683	0.000	0.684	
1 pyridine		0.695	0.693	0.692	0.692	0.692	0.693			0.693	0.000	0.695	
$ 6 2-Fluorophenol		0.835	0.835	0.834	0.834	0.834	0.834	0.834	0.835	0.834	0.000	0.835	
$ 9 Phenol-d5		0.942	0.942	0.941	0.941	0.941	0.942	0.942	0.942	0.942	0.000	0.942	
11 Aniline		0.944	0.943	0.943	0.943	0.943	0.944	0.944	0.944	0.943	0.000	0.944	
10 Phenol		0.944	0.944	0.943	0.943	0.943	0.944	0.944	0.944	0.944	0.000	0.944	
199 Benzaldehyde		0.944	0.944	0.944	0.944	0.944	0.944	0.945	0.945	0.944	0.000	0.945	
12 bis(2-Chloroethyl)ethe		0.958	0.958	0.957	0.957	0.957	0.958	0.958	0.958	0.958	0.000	0.958	
201 n-Decane		0.967	0.967	0.966	0.966	0.966	0.967	0.967	0.967	0.967	0.000	0.967	
13 2-Chlorophenol		0.973	0.973	0.972	0.973	0.973	0.973	0.973	0.973	0.973	0.000	0.973	
14 1,3-Dichlorobenzene		0.993	0.993	0.992	0.992	0.992	0.993	0.992	0.993	0.993	0.000	0.993	
17 1,4-Dichlorobenzene		1.002	1.002	1.001	1.001	1.001	1.001	1.001	1.002	1.002	0.000	1.002	
18 Benzyl alcohol				1.013	1.012	1.012	1.013	1.013	1.013	1.013	0.000	1.013	
19 1,2-Dichlorobenzene		1.023	1.023	1.022	1.023	1.023	1.023	1.023	1.023	1.023	0.000	1.023	
20 o-Cresol		1.023	1.023	1.022	1.023	1.023	1.023	1.023	1.023	1.023	0.000	1.023	
21 bis(2Chloro1methylethy		1.027	1.027	1.026	1.026	1.026	1.026	1.026	1.026	1.027	0.000	1.027	
23 m+p-Cresol		1.043	1.043	1.042	1.042	1.042	1.042	1.042	1.042	1.042	0.000	1.043	
26 n-Nitroso-di-n-propyla		1.044	1.044	1.044	1.044	1.044	1.045	1.045	1.046	1.045	0.000	1.046	
24 Acetophenone		1.049	1.049	1.049	1.049	1.049	1.050	1.050	1.050	1.049	0.000	1.050	
28 Hexachloroethane		1.069	1.069	1.068	1.068	1.068	1.068	1.068	1.068	1.069	0.000	1.069	
$ 29 Nitrobenzene-d5	0.914	0.914	0.914	0.913	0.913	0.914	0.914	0.914	0.914	0.914	0.000	0.914	
30 Nitrobenzene		0.916	0.916	0.915	0.915	0.916	0.916	0.916	0.916	0.916	0.000	0.916	
32 Isophorone		0.941	0.941	0.941	0.941	0.941	0.941	0.941	0.941	0.941	0.000	0.941	
34 2,4-Dimethylphenol		0.951	0.951	0.950	0.950	0.950	0.951	0.951	0.951	0.950	0.000	0.951	
33 2-Nitrophenol		0.953	0.953	0.952	0.952	0.952	0.952	0.952	0.953	0.952	0.000	0.953	
35 bis(2-Chloroethoxy)met		0.961	0.961	0.961	0.961	0.961	0.961	0.961	0.961	0.961	0.000	0.961	
36 Benzoic acid			0.955	0.957	0.959	0.961	0.963	0.964	0.965	0.960	0.000	0.965	
38 2,4-Dichlorophenol		0.980	0.980	0.980	0.980	0.980	0.980	0.980	0.980	0.980	0.000	0.980	
40 1,2,4-Trichlorobenzene		0.991	0.991	0.990	0.990	0.990	0.990	0.990	0.990	0.991	0.000	0.991	
43 Naphthalene	1.003	1.003	1.003	1.002	1.002	1.002	1.003	1.002	1.003	1.002	0.000	1.003	
44 4-Chloroaniline		1.006	1.005	1.005	1.005	1.005	1.005	1.005	1.005	1.005	0.000	1.006	
45 2,6-Dichlorophenol		1.006	1.006	1.006	1.006	1.006	1.006	1.006	1.006	1.006	0.000	1.006	
47 Hexachlorobutadiene		1.012	1.012	1.012	1.012	1.012	1.012	1.012	1.012	1.012	0.000	1.012	
196 Caprolactam		1.045	1.044	1.044	1.044	1.045	1.045	1.045	1.045	1.045	0.000	1.045	
49 4-Chloro-3-methylpheno		1.059	1.058	1.058	1.058	1.058	1.058	1.058	1.058	1.058	0.000	1.059	
51 2-Methylnaphthalene	1.084	1.084	1.084	1.083	1.083	1.083	1.083	1.083	1.084	1.083	0.000	1.084	
204 1-Methylnaphthalene	1.096	1.096	1.096	1.095	1.095	1.096	1.096	1.096	1.096	1.096	0.000	1.096	
53 Hexachlorocyclopentadi		0.908	0.908	0.908	0.909	0.909	0.909	0.909	0.909	0.909	0.000	0.909	
52 1,2,4,5-Tetrachloroben		0.911	0.911	0.911	0.911	0.911	0.911	0.911	0.911	0.911	0.000	0.911	
54 2,4,6-Trichlorophenol		0.921	0.920	0.920	0.921	0.921	0.921	0.921	0.921	0.920	0.000	0.921	
55 2,4,5-Trichlorophenol		0.926	0.925	0.925	0.925	0.925	0.925	0.925	0.925	0.925	0.000	0.926	
$ 56 2-Fluorobiphenyl	0.928	0.928	0.928	0.928	0.928	0.928	0.928	0.928	0.928	0.928	0.000	0.928	
184 Biphenyl		0.939	0.939	0.939	0.939	0.939	0.939	0.939	0.940	0.939	0.000	0.940	
58 2-Chloronaphthalene		0.943	0.943	0.943	0.944	0.944	0.944	0.944	0.944	0.944	0.000	0.944	
60 2-Nitroaniline			0.952	0.952	0.952	0.952	0.952	0.952	0.952	0.952	0.000	0.952	
62 Dimethylphthalate		0.965	0.965	0.965	0.965	0.965	0.965	0.965	0.965	0.965	0.000	0.965	

Report Date: 04-Aug-2023 08:50:23 AIM Revision: 1.0 07-Jul-2023 13:11:40
Method Path: \\Organics\HH\chem\msd10.i\10080323B.b\8270DLVI-10.m
Column1: ZebronZB-SV (0.25 mm) Detector: MS Scan

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8	Level 9	Avg. RRT	Min. RRT	Max. RRT	Flags
63 m-Dinitrobenzene			0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.000	0.972	
65 2,6-Dinitrotoluene			0.973	0.973	0.973	0.974	0.974	0.974	0.974	0.973	0.000	0.974	
64 Acenaphthylene	0.986	0.986	0.986	0.986	0.986	0.986	0.986	0.986	0.986	0.986	0.000	0.986	
66 3-Nitroaniline			0.993	0.993	0.993	0.993	0.993	0.993	0.993	0.993	0.000	0.993	
69 2,4-Dinitrophenol			1.003	1.002	1.002	1.002	1.003	1.003	1.003	1.002	0.000	1.003	
68 Acenaphthene	1.003	1.003	1.003	1.003	1.003	1.003	1.003	1.003	1.003	1.003	0.000	1.003	
70 4-Nitrophenol			1.009	1.006	1.005	1.006	1.006	1.006	1.006	1.006	0.000	1.009	
73 2,4-Dinitrotoluene			1.014	1.014	1.014	1.014	1.015	1.015	1.015	1.014	0.000	1.015	
71 Dibenzofuran	1.020	1.020	1.020	1.020	1.020	1.020	1.020	1.020	1.020	1.020	0.000	1.020	
76 2,3,4,6-Tetrachlorophe		1.031	1.030	1.030	1.030	1.030	1.030	1.030	1.031	1.031	0.000	1.031	
78 Diethylphthalate		1.034	1.034	1.034	1.034	1.034	1.034	1.034	1.034	1.034	0.000	1.034	
80 4-Chlorophenylphenylet		1.050	1.050	1.050	1.050	1.050	1.051	1.051	1.051	1.050	0.000	1.051	
79 Fluorene	1.054	1.054	1.054	1.054	1.054	1.054	1.054	1.054	1.054	1.054	0.000	1.054	
83 4-Nitroaniline			1.056	1.055	1.054	1.054	1.054	1.054	1.054	1.055	0.000	1.056	
84 4,6-Dinitro-2-methylph				0.918	0.918	0.918	0.918	0.918	0.918	0.918	0.000	0.918	
86 n-Nitrosodiphenylamine		0.923	0.923	0.923	0.923	0.923	0.923	0.923	0.923	0.923	0.000	0.923	
87 Azobenzene		0.927	0.927	0.927	0.927	0.927	0.927	0.927	0.927	0.927	0.000	0.927	
$ 88 2,4,6-Tribromophenol			0.938	0.938	0.938	0.938	0.938	0.938	0.938	0.938	0.000	0.938	
94 4-Bromophenylphenyleth		0.956	0.956	0.956	0.956	0.956	0.956	0.957	0.957	0.956	0.000	0.957	
96 Hexachlorobenzene		0.964	0.964	0.964	0.965	0.965	0.965	0.965	0.965	0.965	0.000	0.965	
200 Atrazine		0.966	0.965	0.965	0.965	0.965	0.965	0.965	0.965	0.966	0.000	0.966	
202 Octadecane		0.975	0.975	0.975	0.975	0.976	0.976	0.976	0.976	0.976	0.000	0.976	
99 Pentachlorophenol			0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.000	0.981	
103 Phenanthrene	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	0.000	1.002	
104 Anthracene	1.006	1.006	1.006	1.006	1.006	1.006	1.006	1.006	1.007	1.006	0.000	1.007	
106 Carbazole		1.019	1.019	1.019	1.018	1.019	1.019	1.019	1.019	1.019	0.000	1.019	
109 Di-n-butylphthalate		1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	0.000	1.040	
114 Fluoranthene	1.117	1.116	1.116	1.116	1.116	1.116	1.116	1.116	1.116	1.116	0.000	1.117	
115 Benzidine		0.868	0.867	0.866	0.866	0.866	0.866	0.866	0.866	0.867	0.000	0.868	
116 Pyrene	0.880	0.880	0.879	0.879	0.879	0.879	0.879	0.879	0.879	0.879	0.000	0.880	
$ 117 Terphenyl-d14	0.887	0.887	0.887	0.887	0.887	0.886	0.886	0.886	0.886	0.887	0.000	0.887	
122 Butylbenzylphthalate		0.928	0.928	0.928	0.928	0.928	0.928	0.928	0.928	0.928	0.000	0.928	
130 bis(2-Ethylhexyl)phtha		0.986	0.986	0.986	0.986	0.986	0.986	0.986	0.986	0.986	0.000	0.986	
125 3,3'-Dichlorobenzidine		0.993	0.992	0.992	0.991	0.991	0.991	0.991	0.991	0.992	0.000	0.993	
127 Benzo(a)Anthracene	0.998	0.998	0.999	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.000	0.999	
129 Chrysene	1.003	1.002	1.003	1.003	1.003	1.002	1.002	1.002	1.002	1.003	0.000	1.003	
131 Di-n-octylphthalate		0.901	0.901	0.901	0.900	0.901	0.901	0.901	0.901	0.901	0.000	0.901	
132 Benzo(b)fluoranthene	0.956	0.956	0.956	0.956	0.956	0.956	0.956	0.956	0.956	0.956	0.000	0.956	
134 Benzo(k)fluoranthene	0.959	0.959	0.958	0.959	0.958	0.958	0.959	0.959	0.959	0.959	0.000	0.959	
135 Benzo(a)pyrene	0.993	0.993	0.993	0.993	0.993	0.993	0.993	0.993	0.993	0.993	0.000	0.993	
138 Indeno(1,2,3-c,d)pyren	1.150	1.147	1.146	1.146	1.145	1.145	1.146	1.146	1.146	1.146	0.000	1.150	
139 Dibenzo(a,h)anthracene	1.153	1.149	1.147	1.147	1.146	1.146	1.146	1.147	1.147	1.148	0.000	1.153	
140 Benzo(g,h,i)perylene	1.192	1.191	1.190	1.190	1.190	1.190	1.190	1.190	1.191	1.190	0.000	1.192	

Report Date: 04-Aug-2023 08:50:24 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC
Initial Calibration RT Report

Batch: \\Organics\HH\chem\msd10.i\10080323B.b
Method: 8270DLVI-10.M Instrument: msd10.i
Cal Start Date: 03-Aug-2023 14:58:30 Cal End Date: 03-Aug-2023 22:00:30
Last Modified: 04-Aug-2023 08:49:30
No.Compounds: 177 Integrator: falcon

Column1: ZebronZB-SV (0.25 mm) Detector: MS Scan

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8	Level 9	Avg. RRT	%Rsd RT	Flags
S 214 Total PAHs										1.000	0.000	
193 1,4-Dioxane		3.879	3.879	3.884	3.884	3.879	3.884	3.884	3.884	3.882	0.070	
2 N-Nitrosodimethylamine		4.077	4.077	4.077	4.077	4.077	4.082	4.082	4.087	4.079	0.098	
1 pyridine		4.146	4.136	4.136	4.136	4.136	4.141			4.138	0.108	
$ 6 2-Fluorophenol		4.981	4.981	4.981	4.981	4.981	4.981	4.981	4.986	4.981	0.037	
$ 9 Phenol-d5		5.623	5.623	5.622	5.622	5.623	5.628	5.628	5.628	5.624	0.048	
10 Phenol		5.633	5.633	5.633	5.633	5.633	5.638	5.639	5.638	5.635	0.048	
11 Aniline		5.633	5.628	5.633	5.633	5.633	5.638	5.639	5.638	5.635	0.066	
199 Benzaldehyde		5.633	5.633	5.633	5.633	5.633	5.633	5.639	5.639	5.635	0.044	
12 bis(2-Chloroethyl)ethe		5.719	5.719	5.719	5.719	5.719	5.724	5.724	5.724	5.721	0.047	
201 n-Decane		5.772	5.772	5.772	5.772	5.772	5.778	5.778	5.778	5.774	0.047	
13 2-Chlorophenol		5.804	5.804	5.804	5.810	5.810	5.810	5.810	5.810	5.808	0.047	
14 1,3-Dichlorobenzene		5.927	5.927	5.927	5.927	5.927	5.933	5.927	5.933	5.929	0.040	
17 1,4-Dichlorobenzene		5.981	5.981	5.981	5.981	5.981	5.981	5.981	5.986	5.982	0.031	
18 Benzyl alcohol				6.050	6.045	6.045	6.050	6.050	6.050	6.049	0.045	
20 o-Cresol		6.104	6.104	6.104	6.109	6.109	6.109	6.109	6.109	6.107	0.044	
19 1,2-Dichlorobenzene		6.104	6.104	6.104	6.109	6.109	6.109	6.109	6.109	6.107	0.044	
21 bis(2Chloro1methylethy		6.131	6.131	6.131	6.131	6.131	6.131	6.131	6.131	6.131	0.001	
23 m+p-Cresol		6.222	6.222	6.222	6.222	6.222	6.227	6.227	6.227	6.224	0.044	
26 n-Nitroso-di-n-propyla		6.232	6.232	6.238	6.238	6.238	6.243	6.243	6.248	6.239	0.088	
24 Acetophenone		6.259	6.259	6.264	6.264	6.264	6.270	6.270	6.270	6.265	0.070	
28 Hexachloroethane		6.382	6.382	6.382	6.382	6.382	6.382	6.382	6.382	6.382	0.000	
$ 29 Nitrobenzene-d5	6.398	6.398	6.398	6.398	6.398	6.403	6.403	6.403	6.403	6.400	0.043	
30 Nitrobenzene		6.414	6.414	6.414	6.414	6.419	6.419	6.420	6.419	6.417	0.044	
32 Isophorone		6.585	6.585	6.591	6.591	6.591	6.596	6.596	6.596	6.591	0.067	
34 2,4-Dimethylphenol		6.655	6.655	6.655	6.655	6.655	6.660	6.660	6.660	6.657	0.041	
33 2-Nitrophenol		6.671	6.671	6.671	6.671	6.671	6.671	6.671	6.676	6.671	0.027	
35 bis(2-Chloroethoxy)met		6.730	6.730	6.730	6.730	6.730	6.735	6.735	6.735	6.732	0.040	
36 Benzoic acid			6.687	6.703	6.719	6.730	6.746	6.751	6.762	6.728	0.401	
38 2,4-Dichlorophenol		6.863	6.863	6.863	6.863	6.863	6.869	6.869	6.869	6.865	0.039	
40 1,2,4-Trichlorobenzene		6.938	6.938	6.938	6.938	6.938	6.938	6.938	6.938	6.938	0.000	
43 Naphthalene	7.019	7.019	7.018	7.018	7.018	7.018	7.024	7.019	7.024	7.020	0.032	
44 4-Chloroaniline		7.045	7.035	7.034	7.035	7.034	7.035	7.035	7.035	7.036	0.053	
45 2,6-Dichlorophenol		7.045	7.045	7.045	7.045	7.045	7.050	7.051	7.051	7.047	0.038	
47 Hexachlorobutadiene		7.088	7.088	7.088	7.088	7.088	7.088	7.088	7.093	7.089	0.026	
196 Caprolactam		7.313	7.307	7.307	7.307	7.313	7.318	7.318	7.318	7.313	0.068	
49 4-Chloro-3-methylpheno		7.414	7.409	7.409	7.409	7.409	7.409	7.409	7.409	7.410	0.026	
51 2-Methylnaphthalene	7.585	7.586	7.585	7.585	7.585	7.585	7.585	7.586	7.591	7.586	0.023	
204 1-Methylnaphthalene	7.671	7.671	7.671	7.671	7.671	7.676	7.676	7.676	7.676	7.673	0.036	
53 Hexachlorocyclopentadi		7.703	7.703	7.703	7.708	7.708	7.708	7.709	7.714	7.707	0.048	
52 1,2,4,5-Tetrachloroben		7.725	7.725	7.724	7.724	7.725	7.724	7.725	7.730	7.725	0.024	
54 2,4,6-Trichlorophenol		7.810	7.805	7.805	7.810	7.810	7.810	7.810	7.810	7.809	0.031	
55 2,4,5-Trichlorophenol		7.853	7.848	7.848	7.848	7.848	7.847	7.848	7.847	7.848	0.024	
$ 56 2-Fluorobiphenyl	7.869	7.869	7.869	7.869	7.869	7.869	7.874	7.874	7.874	7.871	0.033	
184 Biphenyl		7.965	7.965	7.965	7.965	7.965	7.965	7.965	7.970	7.966	0.023	
58 2-Chloronaphthalene		8.003	8.003	8.003	8.008	8.008	8.008	8.008	8.008	8.006	0.034	
60 2-Nitroaniline			8.078	8.072	8.072	8.072	8.078	8.078	8.078	8.075	0.036	
62 Dimethylphthalate		8.185	8.185	8.184	8.184	8.185	8.190	8.190	8.190	8.186	0.033	

Report Date: 04-Aug-2023 08:50:24 AIM Revision: 1.0 07-Jul-2023 13:11:40
Method Path: \\Organics\HH\chem\msd10.i\10080323B.b\8270DLVI-10.m
Column1: ZebronZB-SV (0.25 mm) Detector: MS Scan

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8	Level 9	Avg. RRT	%Rsd RT	Flags
63 m-Dinitrobenzene			8.243	8.243	8.243	8.243	8.243	8.249	8.249	8.245	0.031	
65 2,6-Dinitrotoluene			8.254	8.254	8.254	8.259	8.259	8.259	8.259	8.257	0.034	
64 Acenaphthylene	8.361	8.361	8.366	8.366	8.366	8.366	8.366	8.366	8.366	8.365	0.027	
66 3-Nitroaniline			8.425	8.420	8.420	8.420	8.420	8.420	8.420	8.421	0.024	
69 2,4-Dinitrophenol			8.505	8.500	8.500	8.500	8.505	8.505	8.505	8.503	0.033	
68 Acenaphthene	8.505	8.506	8.505	8.505	8.505	8.505	8.511	8.511	8.511	8.507	0.031	
70 4-Nitrophenol			8.559	8.537	8.527	8.532	8.532	8.532	8.532	8.536	0.123	
73 2,4-Dinitrotoluene			8.602	8.602	8.602	8.602	8.607	8.607	8.607	8.604	0.033	
71 Dibenzofuran	8.650	8.650	8.650	8.650	8.650	8.650	8.650	8.650	8.655	8.650	0.020	
76 2,3,4,6-Tetrachlorophe		8.746	8.741	8.741	8.741	8.741	8.741	8.741	8.746	8.742	0.028	
78 Diethylphthalate		8.768	8.768	8.767	8.767	8.768	8.773	8.773	8.773	8.769	0.031	
80 4-Chlorophenylphenylet		8.907	8.907	8.907	8.907	8.907	8.912	8.912	8.912	8.909	0.030	
79 Fluorene	8.944	8.939	8.939	8.944	8.944	8.944	8.944	8.944	8.944	8.943	0.026	
83 4-Nitroaniline			8.960	8.949	8.939	8.944	8.944	8.944	8.944	8.946	0.076	
84 4,6-Dinitro-2-methylph				8.955	8.955	8.955	8.955	8.955	8.955	8.955	0.000	
86 n-Nitrosodiphenylamine		9.003	9.003	9.003	9.003	9.003	9.008	9.008	9.008	9.005	0.030	
87 Azobenzene		9.046	9.046	9.046	9.046	9.046	9.046	9.046	9.046	9.046	0.000	
$ 88 2,4,6-Tribromophenol			9.147	9.147	9.147	9.147	9.147	9.147	9.153	9.148	0.021	
94 4-Bromophenylphenyleth		9.329	9.329	9.329	9.329	9.329	9.329	9.335	9.334	9.330	0.026	
96 Hexachlorobenzene		9.409	9.409	9.409	9.415	9.415	9.415	9.415	9.415	9.413	0.029	
200 Atrazine		9.425	9.420	9.420	9.420	9.420	9.420	9.420	9.420	9.421	0.019	
202 Octadecane		9.516	9.516	9.516	9.516	9.522	9.522	9.522	9.522	9.519	0.029	
99 Pentachlorophenol			9.575	9.575	9.570	9.575	9.575	9.575	9.575	9.574	0.021	
103 Phenanthrene	9.773	9.773	9.773	9.773	9.773	9.773	9.773	9.773	9.773	9.773	0.000	
104 Anthracene	9.816	9.816	9.816	9.816	9.816	9.816	9.816	9.816	9.821	9.816	0.017	
106 Carbazole		9.944	9.939	9.939	9.933	9.939	9.939	9.939	9.939	9.939	0.029	
109 Di-n-butylphthalate		10.148	10.147	10.147	10.147	10.147	10.147	10.148	10.147	10.147	0.000	
114 Fluoranthene	10.896	10.886	10.886	10.886	10.886	10.886	10.885	10.886	10.885	10.887	0.032	
115 Benzidine		10.998	10.987	10.976	10.976	10.976	10.982	10.982	10.982	10.982	0.065	
116 Pyrene	11.153	11.148	11.142	11.142	11.142	11.142	11.142	11.142	11.142	11.144	0.034	
$ 117 Terphenyl-d14	11.244	11.239	11.239	11.239	11.239	11.239	11.238	11.233	11.238	11.239	0.023	
122 Butylbenzylphthalate		11.763	11.763	11.763	11.763	11.763	11.763	11.763	11.763	11.763	0.000	
130 bis(2-Ethylhexyl)phtha		12.496	12.496	12.495	12.495	12.496	12.495	12.496	12.495	12.495	0.000	
125 3,3'-Dichlorobenzidine		12.581	12.576	12.570	12.565	12.565	12.565	12.565	12.565	12.569	0.049	
127 Benzo(a)Anthracene	12.651	12.651	12.656	12.651	12.651	12.651	12.656	12.656	12.651	12.652	0.021	
129 Chrysene	12.709	12.704	12.709	12.709	12.709	12.709	12.709	12.710	12.709	12.709	0.013	
131 Di-n-octylphthalate		13.490	13.490	13.490	13.485	13.490	13.490	13.490	13.490	13.490	0.014	
132 Benzo(b)fluoranthene	14.314	14.314	14.314	14.314	14.314	14.314	14.319	14.319	14.319	14.316	0.018	
134 Benzo(k)fluoranthene	14.357	14.357	14.357	14.357	14.357	14.357	14.362	14.362	14.362	14.359	0.018	
135 Benzo(a)pyrene	14.870	14.876	14.870	14.870	14.870	14.876	14.876	14.876	14.876	14.873	0.018	
138 Indeno(1,2,3-c,d)pyren	17.218	17.181	17.170	17.154	17.149	17.154	17.159	17.165	17.165	17.168	0.122	
139 Dibenzo(a,h)anthracene	17.261	17.208	17.181	17.170	17.165	17.165	17.170	17.176	17.175	17.186	0.181	
140 Benzo(g,h,i)perylene	17.855	17.839	17.823	17.817	17.817	17.823	17.823	17.828	17.828	17.828	0.067	

Pace Environmental Services, LLC
Form 6 Response

Batch: \\Organics\HH\chem\msd10.i\10080323B.b
Method: 8270DLVI-10.M Instrument: msd10.i
Cal Start Date: 03-Aug-2023 14:58:30 Cal End Date: 03-Aug-2023 22:00:30
Last Modified: 04-Aug-2023 08:49:30
No.Compounds: 177 Integrator: falcon

Internal Standards

* 16 1,4-Dichlorobenzene-d4
* 41 Naphthalene-d8
* 67 Acenaphthene-d10
* 102 Phenanthrene-d10
* 128 Chrysene-d12
* 136 Perylene-d12

Column1: ZebronZB-SV (0.25 mm) Detector: MS Scan

Compound	Level 1 Conc/Rsp	Level 2 Conc/Rsp	Level 3 Conc/Rsp	Level 4 Conc/Rsp	Level 5 Conc/Rsp	Level 6 Conc/Rsp	Level 7 Conc/Rsp	Level 8 Conc/Rsp	Level 9 Conc/Rsp	Istd #
S 214 Total PAHs	0.20000									#16
	76675									
193 1,4-Dioxane		1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#16
		2395	5332	12099	30234	40650	60572	61598	67130	
2 N-Nitrosodimethylamine		1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#16
		12133	23021	49970	103759	149875	221338	281784	332119	
1 pyridine		1.0000	2.0000	5.0000	10.000	15.000	20.000			#16
		5461	17031	38697	95378	133024	181872			
$ 6 2-Fluorophenol		1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#16
		14498	33878	96105	203190	283723	404680	496517	591293	
$ 9 Phenol-d5		1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#16
		17386	45031	127598	275904	380184	547224	672717	807200	
10 Phenol		1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#16
		19396	44323	126607	269156	388361	570184	687071	826169	
11 Aniline		1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#16
		7612	17947	50805	108985	153455	222481	267523	319603	
199 Benzaldehyde		1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#16
		10013	21435	59953	125310	195562	249243	288429	328511	
12 bis(2-Chloroethyl)ethe		1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#16
		15814	34120	93379	194904	265040	368783	455688	547118	
201 n-Decane		1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#16
		16984	44422	95224	250598	322705	531327	532973	598656	
13 2-Chlorophenol		1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#16
		14411	34621	94331	200707	278968	397155	485568	586543	
14 1,3-Dichlorobenzene		1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#16
		15584	36566	79694	166896	255298	392686	499081	601815	
17 1,4-Dichlorobenzene		1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#16
		17342	39747	87275	182461	284397	423705	541158	648612	
18 Benzyl alcohol				5.0000	10.000	15.000	20.000	25.000	30.000	#16
				20363	78625	113507	177274	200423	243772	
20 o-Cresol		1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#16
		13268	37109	93158	215235	299597	433843	523093	616812	
19 1,2-Dichlorobenzene		1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#16
		15862	35986	82391	188858	284156	411352	509725	613136	
21 bis(2Chloro1methylethy		1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#16
		40449	87823	217470	438981	607064	857032	1042687	1246164	
23 m+p-Cresol		1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#16
		14295	35375	106156	212899	313281	438167	562573	675318	

Report Date: 04-Aug-2023 08:50:23 AIM Revision: 1.0 07-Jul-2023 13:11:40
Method Path: \\Organics\HH\chem\msd10.i\10080323B.b\8270DLVI-10.m
Column1: ZebronZB-SV (0.25 mm) Detector: MS Scan

Compound	Level 1 Conc/Rsp	Level 2 Conc/Rsp	Level 3 Conc/Rsp	Level 4 Conc/Rsp	Level 5 Conc/Rsp	Level 6 Conc/Rsp	Level 7 Conc/Rsp	Level 8 Conc/Rsp	Level 9 Conc/Rsp	Istd #
26 n-Nitroso-di-n-propyla		1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#16
		13219	32229	84054	175659	239434	350615	423308	503918	
24 Acetophenone		1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#16
		21893	51052	136539	281475	388360	559354	686751	813706	
28 Hexachloroethane		1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#16
		5936	14452	31224	65308	104637	154291	194980	236971	
$ 29 Nitrobenzene-d5	0.20000	1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#41
	2376	18143	42704	115906	244145	343777	463257	561562	670895	
30 Nitrobenzene		1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#41
		17300	39924	110611	225645	318501	453681	542890	646211	
32 Isophorone		1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#41
		34096	77242	202339	410668	552176	802769	956987	1145301	
34 2,4-Dimethylphenol		1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#41
		11615	26812	68093	131113	169648	238673	276985	335757	
33 2-Nitrophenol		1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#41
		7604	18028	49024	105752	144219	209774	254367	305460	
35 bis(2-Chloroethoxy)met		1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#41
		22436	49723	131060	266400	367008	528133	635511	758621	
36 Benzoic acid			4.0000	10.000	20.000	30.000	40.000	50.000	60.000	#41
			33806	114256	272541	393297	597580	696376	852763	
38 2,4-Dichlorophenol		1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#41
		11392	25392	68619	141099	188250	276595	334702	395575	
40 1,2,4-Trichlorobenzene		1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#41
		13238	27758	71465	145157	197364	284402	342006	404532	
43 Naphthalene	0.20000	1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#41
	9635	57972	123934	310338	639740	876340	1230939	1488906	1763491	
44 4-Chloroaniline		1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#41
		9862	28572	85542	221853	320967	423334	525301	650165	
45 2,6-Dichlorophenol		1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#41
		11114	25783	64801	134282	181755	264126	314082	379710	
47 Hexachlorobutadiene		1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#41
		6815	13942	35322	73375	98800	141120	168079	202179	
196 Caprolactam		1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#41
		3178	8691	25772	61883	89751	113699	141473	167962	
49 4-Chloro-3-methylpheno		1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#41
		13633	30368	78983	155860	208666	304620	363043	425682	
51 2-Methylnaphthalene	0.20000	1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#41
	5067	34117	72992	182875	368312	490858	713865	848387	1018341	
204 1-Methylnaphthalene	0.20000	1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#41
	6234	33990	71697	178408	361409	487432	701250	842777	1004974	
53 Hexachlorocyclopentadi		5.0000	10.000	25.000	50.000	75.000	100.00	125.00	150.00	#67
		24465	62525	179606	419502	596446	840179	997712	1158014	
52 1,2,4,5-Tetrachloroben		1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#67
		12526	25399	65641	135317	182194	263690	315222	374318	
54 2,4,6-Trichlorophenol		1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#67
		6427	14382	37169	77601	102365	148134	173004	202807	
55 2,4,5-Trichlorophenol		1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#67
		6720	14803	40237	83292	106750	160563	190164	223107	
$ 56 2-Fluorobiphenyl	0.20000	1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#67
	5806	34657	76151	184087	371757	489032	721862	845152	1009929	
184 Biphenyl		1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#67
		39403	84363	209756	410405	537097	787377	926487	1096307	
58 2-Chloronaphthalene		1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#67
		29635	62580	154607	303135	396088	570890	678243	802116	
60 2-Nitroaniline			2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#67
			15522	43722	105337	153690	197958	249381	297477	

Report Date: 04-Aug-2023 08:50:23 AIM Revision: 1.0 07-Jul-2023 13:11:40
Method Path: \\Organics\HH\chem\msd10.i\10080323B.b\8270DLVI-10.m
Column1: ZebronZB-SV (0.25 mm) Detector: MS Scan

Compound	Level 1 Conc/Rsp	Level 2 Conc/Rsp	Level 3 Conc/Rsp	Level 4 Conc/Rsp	Level 5 Conc/Rsp	Level 6 Conc/Rsp	Level 7 Conc/Rsp	Level 8 Conc/Rsp	Level 9 Conc/Rsp	Istd #
62 Dimethylphthalate		1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#67
		27594	57529	147650	279868	359976	533912	620491	722947	
63 m-Dinitrobenzene			2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#67
			7257	21254	46641	62395	92329	108418	123263	
65 2,6-Dinitrotoluene			2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#67
			12997	34788	68544	88343	128144	152952	177322	
64 Acenaphthylene	0.20000	1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#67
	5804	39315	87720	215439	427482	555410	807357	950021	1122394	
66 3-Nitroaniline			2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#67
			9692	29867	75380	108440	141686	170228	205832	
69 2,4-Dinitrophenol			4.0000	10.000	20.000	30.000	40.000	50.000	60.000	#67
			7306	27909	68103	95911	147764	175450	203177	
68 Acenaphthene	0.20000	1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#67
	5719	32208	67686	160901	320700	422363	622801	732338	872214	
70 4-Nitrophenol			4.0000	10.000	20.000	30.000	40.000	50.000	60.000	#67
			9714	26298	51892	71978	106557	124925	139038	
73 2,4-Dinitrotoluene			2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#67
			14411	38752	76538	102064	150566	175591	199877	
71 Dibenzofuran	0.20000	1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#67
	6489	39024	80660	196534	381106	496865	729206	863035	1003785	
76 2,3,4,6-Tetrachlorophe		1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#67
		4416	10253	26592	56084	70503	110779	126272	148551	
78 Diethylphthalate		1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#67
		25991	55351	136722	263134	333925	494529	570907	656237	
80 4-Chlorophenylphenylet		1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#67
		13153	27929	68993	133536	175755	258107	302534	351544	
79 Fluorene	0.20000	1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#67
	5328	30606	65228	158237	314224	404256	586850	689878	806101	
83 4-Nitroaniline			2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#67
			8455	27738	66172	93232	120069	145434	176639	
84 4,6-Dinitro-2-methylph				5.0000	10.000	15.000	20.000	25.000	30.000	#102
				15813	36561	51379	75014	90428	104027	
86 n-Nitrosodiphenylamine		1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#102
		19069	38995	99340	191193	252951	371063	420840	486175	
87 Azobenzene		1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#102
		31797	73501	181775	354866	451778	679765	790065	920026	
$ 88 2,4,6-Tribromophenol			2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#102
			4216	10789	21900	28920	42353	47996	55895	
94 4-Bromophenylphenyleth		1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#102
		5722	12492	31357	60421	76303	109241	128549	147730	
96 Hexachlorobenzene		1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#102
		5359	10815	26787	51681	67673	94955	110233	126563	
200 Atrazine		1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#102
		3945	10870	28611	66091	93311	121009	145449	169079	
202 Octadecane		1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#102
		26706	57905	146042	287210	362170	549622	649306	758266	
99 Pentachlorophenol			4.0000	10.000	20.000	30.000	40.000	50.000	60.000	#102
			10053	26792	60273	81697	121994	140794	155357	
103 Phenanthrene	0.20000	1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#102
	6478	36959	73215	173479	334484	423723	610548	713096	797907	
104 Anthracene	0.20000	1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#102
	5050	33050	66445	164890	321325	405892	579064	681713	769031	
106 Carbazole		1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#102
		27213	60902	149302	296000	387365	535973	630752	695910	
109 Di-n-butylphthalate		1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#102
		25588	63424	164587	328140	437183	618898	737524	812400	

Report Date: 04-Aug-2023 08:50:23 AIM Revision: 1.0 07-Jul-2023 13:11:40
Method Path: \\Organics\HH\chem\msd10.i\10080323B.b\8270DLVI-10.m
Column1: ZebronZB-SV (0.25 mm) Detector: MS Scan

Compound	Level 1 Conc/Rsp	Level 2 Conc/Rsp	Level 3 Conc/Rsp	Level 4 Conc/Rsp	Level 5 Conc/Rsp	Level 6 Conc/Rsp	Level 7 Conc/Rsp	Level 8 Conc/Rsp	Level 9 Conc/Rsp	Istd #
114 Fluoranthene	0.20000	1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#102
	4525	26355	56841	136491	271566	360041	484481	579665	628942	
115 Benzidine		5.0000	10.000	25.000	50.000	75.000	100.00	125.00	150.00	#128
		6459	49029	220676	589166	833645	1284591	1485128	1817861	
116 Pyrene	0.20000	1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#128
	4474	25847	57257	132923	267506	359644	476453	573397	617369	
$ 117 Terphenyl-d14	0.20000	1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#128
	2554	15983	35422	82917	168682	230951	302179	368063	390708	
122 Butylbenzylphthalate		1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#128
		5466	14279	38387	90623	138251	179198	224846	240855	
130 bis(2-Ethylhexyl)phtha		1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#128
		5960	16324	43759	106594	176708	222729	287621	303312	
125 3,3'-Dichlorobenzidine		1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#128
		2397	6910	20768	49354	62729	91376	103428	122801	
127 Benzo(a)Anthracene	0.20000	1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#128
	3771	15788	36496	81259	176594	258223	319996	395174	419322	
129 Chrysene	0.20000	1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#128
	3800	17805	38313	82874	172940	253618	312487	384411	401233	
131 Di-n-octylphthalate		1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#136
		8894	25398	68105	171629	300211	373475	474574	514756	
132 Benzo(b)fluoranthene	0.20000	1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#136
	2032	11380	27493	62430	144306	222847	274563	350802	379405	
134 Benzo(k)fluoranthene	0.20000	1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#136
	2743	13179	30096	69114	153269	241297	306206	358017	389214	
135 Benzo(a)pyrene	0.20000	1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#136
	1630	9661	23159	55101	121846	184530	236310	288208	311781	
138 Indeno(1,2,3-c,d)pyren	0.20000	1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#136
	1684	11198	27887	71201	155214	242307	305061	358115	393928	
139 Dibenzo(a,h)anthracene	0.20000	1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#136
	1201	8907	22868	59496	127725	204323	255019	302150	336019	
140 Benzo(g,h,i)perylene	0.20000	1.0000	2.0000	5.0000	10.000	15.000	20.000	25.000	30.000	#136
	1500	9870	23804	60655	125915	192201	240748	277178	307857	

Pace Environmental Services, LLC
Calibration History Report

Batch:	\\Organics\HH\chem\msd10.i\10080323B.b		
Method:	8270DLVI-10.M	Instrument:	msd10.i
Cal Start Date:	03-Aug-2023 14:58:30	Cal End Date:	03-Aug-2023 22:00:30
Last Modified:	04-Aug-2023 08:49:30		
No.Compounds:	177	Integrator:	falcon
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan

No. Cal Levels: 9 No. Cal Levels: 17

No.	Ical Level	Lab Sample ID	Injection Date/Time	Batch Name	Data File	Sublist	Batch Number	Sample Number
1	1	SVMS 6673	03-Aug-2023 14:58:30	10080323B.b	100803B03.D	PAH+.sub	82201396	806668846
2	2	SVMS 6674	03-Aug-2023 15:23:30	10080323B.b	100803B04.D	1STD.sub	82201396	806683913
3	3	SVMS 6675	03-Aug-2023 15:48:30	10080323B.b	100803B05.D	1STD.sub	82201396	806698841
4	4	SVMS 6676	03-Aug-2023 16:12:30	10080323B.b	100803B06.D	1STD.sub	82201396	806714086
5	5	SVMS 6677	03-Aug-2023 16:37:30	10080323B.b	100803B07.D	1STD.sub	82201396	806729404
6	6	SVMS 6678	03-Aug-2023 17:02:30	10080323B.b	100803B08.D	1STD.sub	82201396	806744592
7	7	SVMS 6679	03-Aug-2023 17:27:30	10080323B.b	100803B09.D	1STD.sub	82201396	806759737
8	8	SVMS 6680	03-Aug-2023 17:52:30	10080323B.b	100803B10.D	1STD.sub	82201396	806760540
9	9	SVMS 6681	03-Aug-2023 18:17:30	10080323B.b	100803B11.D	1STD.sub	82201396	806771031
10	2	SVMS 6576	03-Aug-2023 19:06:30	10080323B.b	100803B13.D	3STD.sub	82201396	806791536
11	3	SVMS 6577	03-Aug-2023 19:31:30	10080323B.b	100803B14.D	3STD.sub	82201396	806792040
12	4	SVMS 6578	03-Aug-2023 19:56:30	10080323B.b	100803B15.D	3STD.sub	82201396	806802294
13	5	SVMS 6579	03-Aug-2023 20:21:30	10080323B.b	100803B16.D	3STD.sub	82201396	806803061
14	6	SVMS 6580	03-Aug-2023 20:46:30	10080323B.b	100803B17.D	3STD.sub	82201396	806812721
15	7	SVMS 6581	03-Aug-2023 21:10:30	10080323B.b	100803B18.D	3STD.sub	82201396	806822623
16	8	SVMS 6582	03-Aug-2023 21:35:30	10080323B.b	100803B19.D	3STD.sub	82201396	806832291
17	9	SVMS 6583	03-Aug-2023 22:00:30	10080323B.b	100803B20.D	3STD.sub	82201396	806832991

Pace Environmental Services, LLC
Target Compound Quantitation Report

Data File: \\Organics\HH\chem\msd10.i\10080323B.b\100803B03.D
Lab Sample ID: SVMS 6673 Client Sample ID: 1STD00.2QB
Injection Date: 03-Aug-2023 14:58:30 Dil. Factor: 1.0
Operator: JCG Inst. ID: msd10.i
Sample Info: 10080323B.b, SVMS 6673
Misc. Info: 1STD00.2
Method: \\Organics\HH\chem\msd10.i\10080323B.b\8270DLVI-10.m
Method Date: 04-Aug-2023 08:45:30 Quant Method: ISTD
Calib Date: 03-Aug-2023 22:00:30 Calib File: 100803B20.D
Sample Type: Ical, Level: 1 ALS Bottle: 1
Cpnd Sublist: PAH+.sub
Matrix/Level: Soil/Low
Target 4.14 Integrator: falcon

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100)/Vi * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	5000.00	Volume of final extract (uL)(1000 low, 2000 med.
Ws	15.000	Weight of sample extracted (g)
M	0	% Moisture
Vi	5.0000	
Cpnd Variable		Local Cpnd Variable

Column1: ZebronZB-SV (0.25 mm) Detector: MS Scan
Data Reviewer: jcg Review Date: 03-Aug-2023 15:38:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 16 1,4-Dichlorobenzene-d4	152.0	5.965	5.965	0.000	200682	20.000	20.000	
$ 29 Nitrobenzene-d5	82.0	6.398	6.398	0.000	2376	0.20000	0.14247	
* 41 Naphthalene-d8	136.0	6.997	6.997	0.000	858987	20.000	20.000	
43 Naphthalene	128.0	7.019	7.019	0.000	9635	0.20000	0.20461	
51 2-Methylnaphthalene	142.0	7.585	7.585	0.000	5067	0.20000	0.18797	
204 1-Methylnaphthalene	142.0	7.671	7.671	0.000	6234	0.20000	0.22855	
$ 56 2-Fluorobiphenyl	172.0	7.869	7.869	0.000	5806	0.20000	0.17967	
64 Acenaphthylene	152.0	8.361	8.361	0.000	5804	0.20000	0.16002	
* 67 Acenaphthene-d10	164.0	8.479	8.479	0.000	477777	20.000	20.000	
68 Acenaphthene	153.0	8.505	8.505	0.000	5719	0.20000	0.19974	
71 Dibenzofuran	168.0	8.650	8.650	0.000	6489	0.20000	0.19216	
79 Fluorene	166.0	8.944	8.944	0.000	5328	0.20000	0.19547	
* 102 Phenanthrene-d10	188.0	9.752	9.752	0.000	579994	20.000	20.000	
103 Phenanthrene	178.0	9.773	9.773	0.000	6478	0.20000	0.21264	
104 Anthracene	178.0	9.816	9.816	0.000	5050	0.20000	0.17948	
114 Fluoranthene	202.0	10.896	10.896	0.000	4525	0.20000	0.19013	
116 Pyrene	202.0	11.153	11.153	0.000	4474	0.20000	0.17250	
$ 117 Terphenyl-d14	244.0	11.244	11.244	0.000	2554	0.20000	0.15766	
127 Benzo(a)Anthracene	228.0	12.651	12.651	0.000	3771	0.20000	0.21481	
* 128 Chrysene-d12	240.0	12.667	12.667	0.000	276542	20.000	20.000	
129 Chrysene	228.0	12.709	12.709	0.000	3800	0.20000	0.21517	
132 Benzo(b)fluoranthene	252.0	14.314	14.314	0.000	2032	0.20000	0.15884	M

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
134 Benzo(k)fluoranthene	252.0	14.357	14.357	0.000	2743	0.20000	0.19422	
135 Benzo(a)pyrene	252.0	14.870	14.870	0.000	1630	0.20000	0.15187	
* 136 Perylene-d12	264.0	14.967	14.967	0.000	217073	20.000	20.000	
138 Indeno(1,2,3-c,d)pyrene	276.0	17.218	17.218	0.000	1684	0.20000	0.24287	
139 Dibenzo(a,h)anthracene	278.0	17.261	17.261	0.000	1201	0.20000	0.24422	M
140 Benzo(g,h,i)perylene	276.0	17.855	17.855	0.000	1500	0.20000	0.13785	
S 214 Total PAHs	100.0	1.000		0.000		0.20000	3.4910	Q

Compound Type Legend

* - ISTD
$ - Surrogate
S - Summary

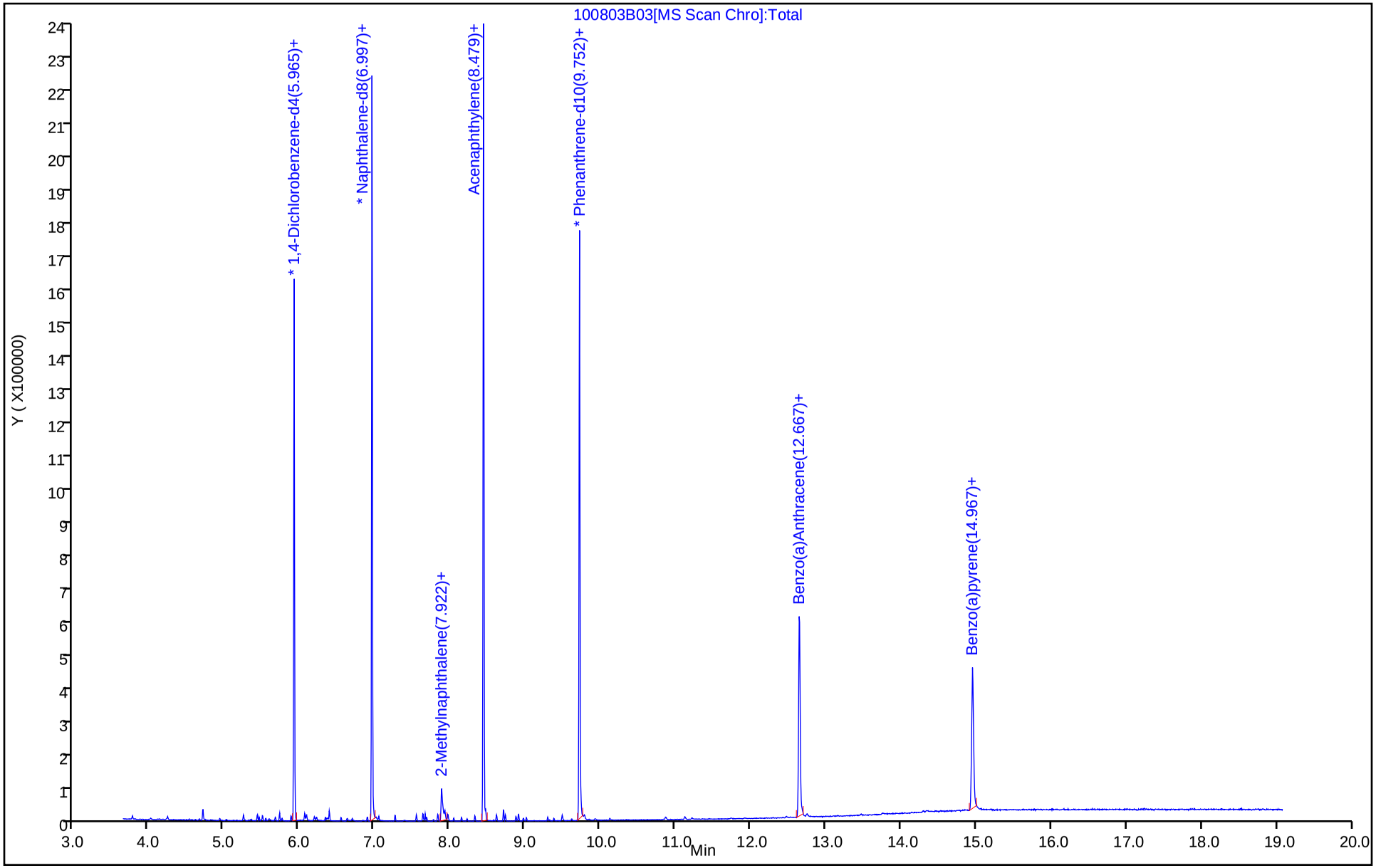
QC Flag Legend

Processing Flags
Q - Qualifier Signal(s) Fails Ratio Test
Review Flags
M - Compound Hit/Peak Manually Integrated

Report Date: 04-Aug-2023 08:45:34 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

Data File:	\\Organics\HH\chem\msd10.i\10080323B.b\100803B03.D				
Injection Date:	03-Aug-2023 14:58:30	Inst. ID:	msd10.i	Operator:	JCG
Client ID:	1STD00.2QB	Lab ID:	SVMS 6673		
Sample Info:	10080323B.b, SVMS 6673				
Injection Vol.	5.00	Dil. Factor:	1.0		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan		



Report Date: 04-Aug-2023 08:45:35 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

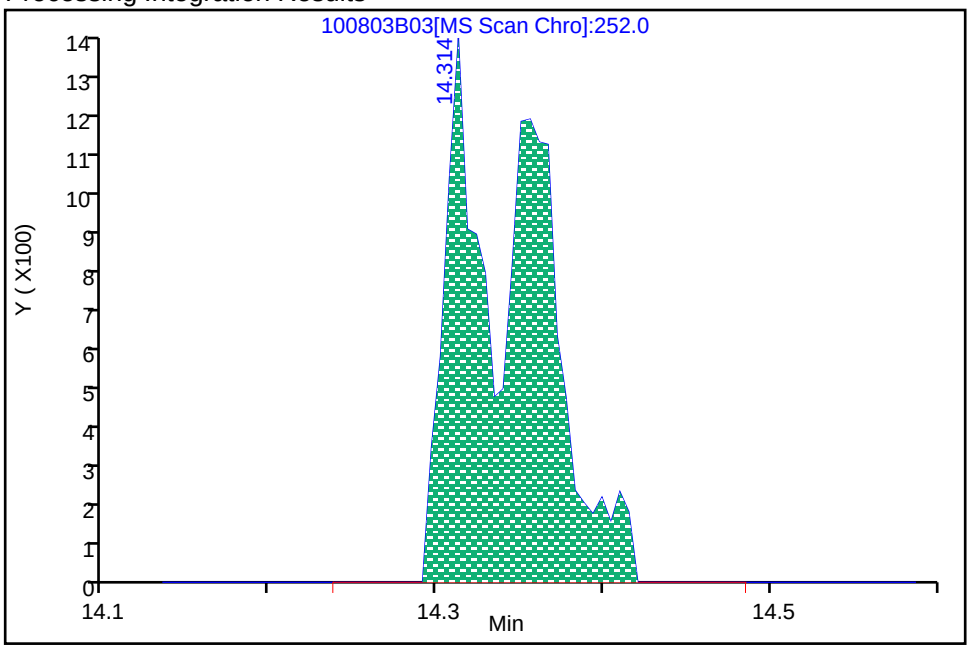
Manual Integration Report

Data File:	\\Organics\HH\chem\msd10.i\10080323B.b\100803B03.D		
Injection Date:	03-Aug-2023 14:58:30	Inst. ID:	msd10.i
Client ID:	1STD00.2QB	Lab ID:	SVMS 6673
Sample Info:	10080323B.b, SVMS 6673		
Injection Vol.	5.00	Dil. Factor:	1.0
Operator:	JCG		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan

132 Benzo(b)fluoranthene, CAS: 205-99-2

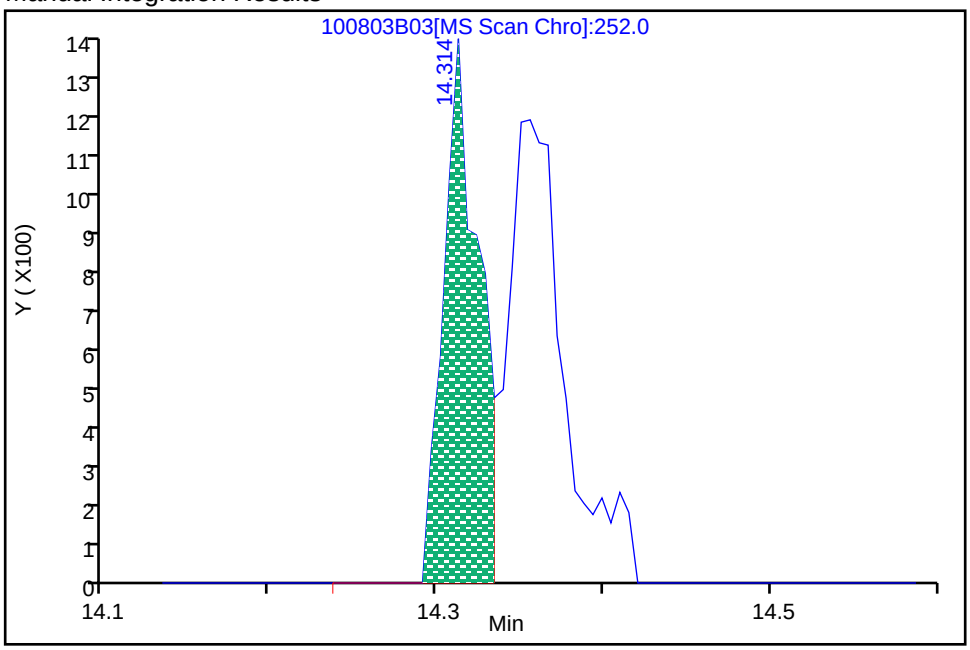
Processing Integration Results

RT: 14.314
Area: 4701
Amount: 0.34474
Amount Units: ng
Conc:



Manual Integration Results

RT: 14.314
Area: 2032
Amount: 0.15884
Amount Units: ng



Data Editor: jcg, 03-Aug-2023 15:38:30
Audit Action: Mint
Audit Reason: M-01, Split Peak

Report Date: 04-Aug-2023 08:45:35 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

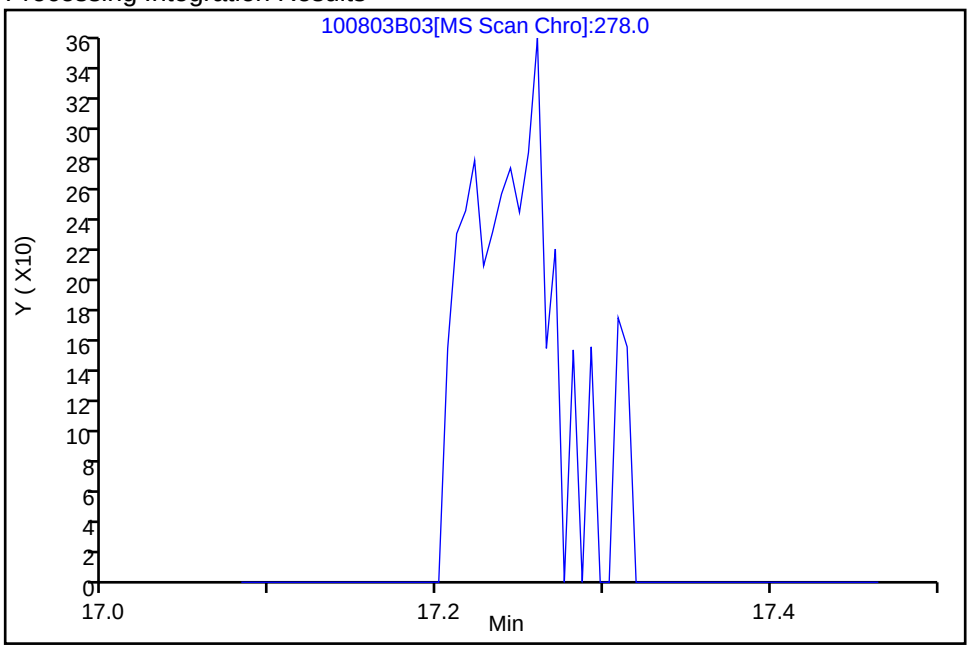
Manual Integration Report

Data File:	\\Organics\HH\chem\msd10.i\10080323B.b\100803B03.D		
Injection Date:	03-Aug-2023 14:58:30	Inst. ID:	msd10.i
Client ID:	1STD00.2QB	Lab ID:	SVMS 6673
Sample Info:	10080323B.b, SVMS 6673		
Injection Vol.	5.00	Dil. Factor:	1.0
Operator:	JCG		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan

139 Dibenzo(a,h)anthracene, CAS: 53-70-3

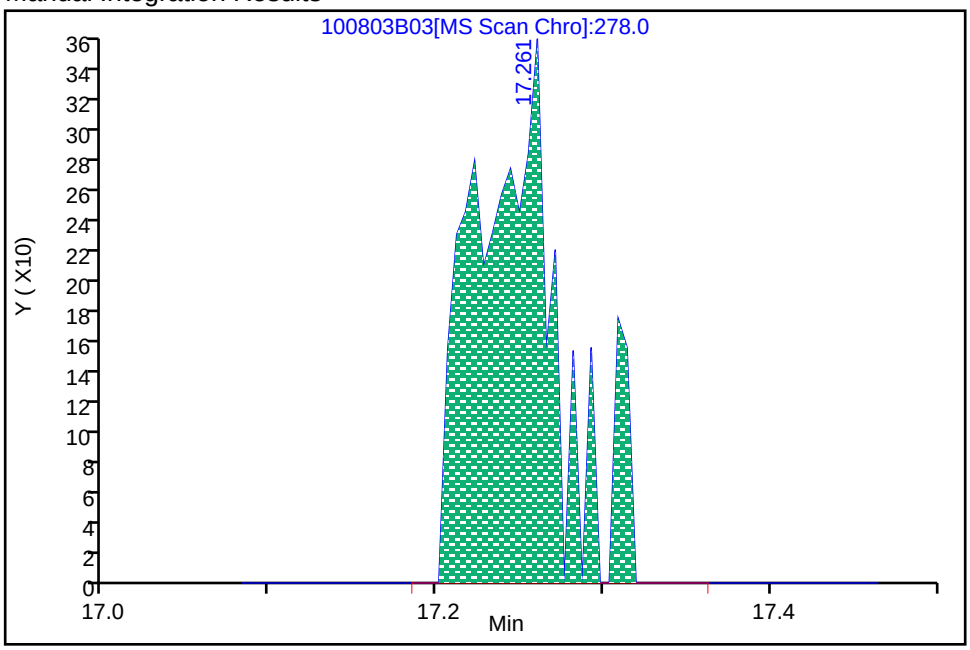
Processing Integration Results

Not Detected
Expected RT: 17.261
RT Window: 16.363-18.159



Manual Integration Results

RT: 17.261
Area: 1201
Amount: 0.24422
Amount Units: ng



Data Editor: jcg, 03-Aug-2023 15:38:30
Audit Action: Mint
Audit Reason: M-05, Manually Assign Peak

Report Date: 04-Aug-2023 08:45:35 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

Resolution Report

Data File:	\\Organics\HH\chem\msd10.i\10080323B.b\100803B03.D		
Injection Date:	03-Aug-2023 14:58:30	Inst. ID:	msd10.i
Client ID:	1STD00.2QB	Lab ID:	SVMS 6673
Sample Info:	10080323B.b, SVMS 6673		
Injection Vol.	5.00	Dil. Factor:	1.0
Operator:	JCG		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan

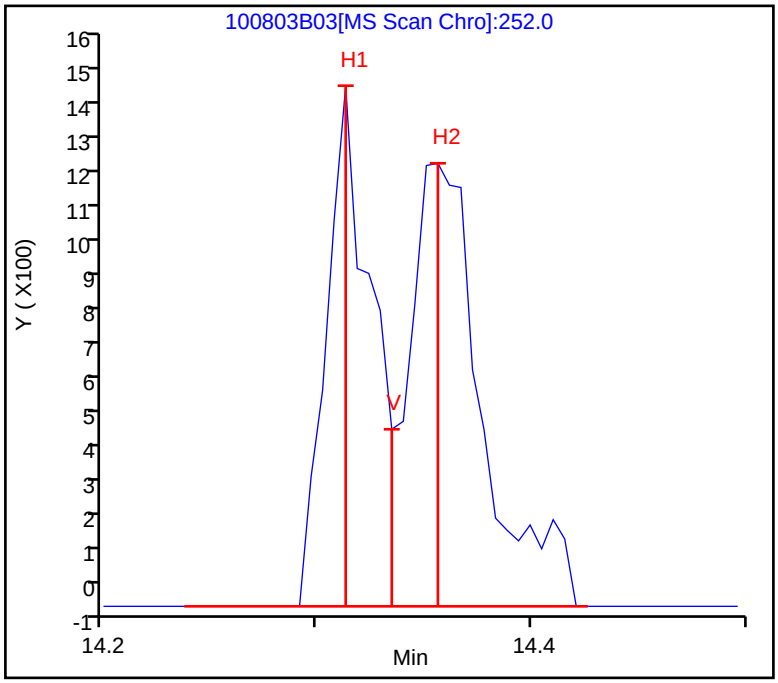
132 Benzo(b)fluoranthene @ 14.314 - 134 Benzo(k)fluoranthene @ 14.357

SW-846 Method
Version D

%Valley = (V / ((H1 + H2)/2)) * 100

V (Valley Height) = 468
H1(132 Benzo(b)fluoranthen) = 1376
H2(134 Benzo(k)fluoranthen) = 1171

%Valley = 37 <= 50
Passed



Pace Environmental Services, LLC
Target Compound Quantitation Report

Data File: \\Organics\HH\chem\msd10.i\10080323B.b\100803B04.D
Lab Sample ID: SVMS 6674 Client Sample ID: 1STD001QB
Injection Date: 03-Aug-2023 15:23:30 Dil. Factor: 1.0
Operator: JCG Inst. ID: msd10.i
Sample Info: 10080323B.b, SVMS 6674
Misc. Info: 1STD001
Method: \\Organics\HH\chem\msd10.i\10080323B.b\8270DLVI-10.m
Method Date: 04-Aug-2023 08:45:30 Quant Method: ISTD
Calib Date: 03-Aug-2023 22:00:30 Calib File: 100803B20.D
Sample Type: Ical, Level: 2 ALS Bottle: 2
Cpnd Sublist: 1STD.sub
Matrix/Level: Soil/Low
Target 4.14 Integrator: falcon

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100)/Vi * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	5000.00	Volume of final extract (uL)(1000 low, 2000 med.
Ws	15.000	Weight of sample extracted (g)
M	0	% Moisture
Vi	5.0000	
Cpnd Variable		Local Cpnd Variable

Column1: ZebronZB-SV (0.25 mm) Detector: MS Scan
Data Reviewer: jcg Review Date: 03-Aug-2023 16:07:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
193 1,4-Dioxane	58.0	3.879	3.879	0.000	2395	1.0000	0.98899	
2 N-Nitrosodimethylamine	42.0	4.077	4.077	0.000	12133	1.0000	1.2016	
1 pyridine	79.0	4.146	4.146	0.000	5461	1.0000	0.73188	
$ 6 2-Fluorophenol	112.0	4.981	4.981	0.000	14498	1.0000	0.83956	
$ 9 Phenol-d5	99.0	5.623	5.623	0.000	17386	1.0000	0.75620	
10 Phenol	94.0	5.633	5.633	0.000	19396	1.0000	0.82814	
11 Aniline	66.0	5.633	5.633	0.000	7612	1.0000	0.82157	
12 bis(2-Chloroethyl)ether	63.0	5.719	5.719	0.000	15814	1.0000	0.95285	
201 n-Decane	57.0	5.772	5.772	0.000	16984	1.0000	0.85371	
13 2-Chlorophenol	128.0	5.804	5.804	0.000	14411	1.0000	0.84368	
14 1,3-Dichlorobenzene	146.0	5.927	5.927	0.000	15584	1.0000	0.94645	
* 16 1,4-Dichlorobenzene-d4	152.0	5.965	5.965	0.000	229511	20.000	20.000	
17 1,4-Dichlorobenzene	146.0	5.981	5.981	0.000	17342	1.0000	0.96398	
18 Benzyl alcohol	79.0		6.050		ND			
20 o-Cresol	108.0	6.104	6.104	0.000	13268	1.0000	0.74296	
19 1,2-Dichlorobenzene	146.0	6.104	6.104	0.000	15862	1.0000	0.92108	
21 bis(2Chloro1methylethyl)ether	45.0	6.131	6.131	0.000	40449	1.0000	1.0342	
23 m+p-Cresol	107.0	6.222	6.222	0.000	14295	1.0000	0.76437	
26 n-Nitroso-di-n-propylamine	70.0	6.232	6.232	0.000	13219	1.0000	0.87515	M
24 Acetophenone	105.0	6.259	6.259	0.000	21893	1.0000	0.89763	
28 Hexachloroethane	117.0	6.382	6.382	0.000	5936	1.0000	0.91635	
$ 29 Nitrobenzene-d5	82.0	6.398	6.398	0.000	18143	1.0000	0.83330	

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
30 Nitrobenzene	77.0	6.414	6.414	0.000	17300	1.0000	0.80700	
32 Isophorone	82.0	6.585	6.585	0.000	34096	1.0000	0.87551	
34 2,4-Dimethylphenol	107.0	6.655	6.655	0.000	11615	1.0000	0.94602	
33 2-Nitrophenol	139.0	6.671	6.671	0.000	7604	1.0000	0.77404	
35 bis(2-Chloroethoxy)methane	93.0	6.730	6.730	0.000	22436	1.0000	0.87811	
36 Benzoic acid	105.0	6.682	6.682	0.000	12471	2.0000	0.95335	
38 2,4-Dichlorophenol	162.0	6.863	6.863	0.000	11392	1.0000	0.85772	
45 2,6-Dichlorophenol	162.0	7.045	7.045	0.000	11114	1.0000	0.86959	
40 1,2,4-Trichlorobenzene	180.0	6.938	6.938	0.000	13238	1.0000	0.94675	
* 41 Naphthalene-d8	136.0	6.997	6.997	0.000	1121400	20.000	20.000	
43 Naphthalene	128.0	7.019	7.019	0.000	57972	1.0000	0.94304	
47 Hexachlorobutadiene	224.6	7.088	7.088	0.000	6815	1.0000	0.97389	
49 4-Chloro-3-methylphenol	107.0	7.414	7.414	0.000	13633	1.0000	0.91297	
51 2-Methylnaphthalene	142.0	7.586	7.586	0.000	34117	1.0000	0.96945	
204 1-Methylnaphthalene	142.0	7.671	7.671	0.000	33990	1.0000	0.95453	
53 Hexachlorocyclopentadiene	237.0	7.703	7.703	0.000	24465	5.0000	5.7770	
52 1,2,4,5-Tetrachlorobenzene	216.0	7.725	7.725	0.000	12526	1.0000	0.86522	
54 2,4,6-Trichlorophenol	196.0	7.810	7.810	0.000	6427	1.0000	0.80074	
55 2,4,5-Trichlorophenol	196.0	7.853	7.853	0.000	6720	1.0000	0.78160	M
$ 56 2-Fluorobiphenyl	172.0	7.869	7.869	0.000	34657	1.0000	0.87931	
184 Biphenyl	154.0	7.965	7.965	0.000	39403	1.0000	0.89258	
58 2-Chloronaphthalene	162.0	8.003	8.003	0.000	29635	1.0000	0.91141	
63 m-Dinitrobenzene	168.0	8.243	8.243	0.000	2538	1.0000	0.51666	M
62 Dimethylphthalate	163.0	8.185	8.185	0.000	27594	1.0000	0.91936	
65 2,6-Dinitrotoluene	165.0	8.254	8.254	0.000	5369	1.0000	0.73460	
64 Acenaphthylene	152.0	8.361	8.361	0.000	39315	1.0000	0.88872	
* 67 Acenaphthene-d10	164.0	8.479	8.479	0.000	582724	20.000	20.000	
69 2,4-Dinitrophenol	184.0	8.511	8.511	0.000	1665	2.0000	3.1722	
68 Acenaphthene	153.0	8.506	8.506	0.000	32208	1.0000	0.92229	
70 4-Nitrophenol	109.0		8.532		ND			
73 2,4-Dinitrotoluene	165.0	8.602	8.602	0.000	5630	1.0000	0.67809	M
71 Dibenzofuran	168.0	8.650	8.650	0.000	39024	1.0000	0.94750	
76 2,3,4,6-Tetrachlorophenol	232.0	8.746	8.746	0.000	4416	1.0000	0.76592	
78 Diethylphthalate	149.0	8.768	8.768	0.000	25991	1.0000	0.93019	
80 4-Chlorophenylphenylether	204.0	8.907	8.907	0.000	13153	1.0000	0.90982	
79 Fluorene	166.0	8.939	8.939	0.000	30606	1.0000	0.92063	
84 4,6-Dinitro-2-methylphenol	198.0	8.955	8.955	0.000	1447	1.0000	0.31864	
86 n-Nitrosodiphenylamine	169.0	9.003	9.003	0.000	19069	1.0000	0.86726	
87 Azobenzene	77.0	9.046	9.046	0.000	31797	1.0000	0.78993	
$ 88 2,4,6-Tribromophenol	330.0	9.147	9.147	0.000	1569	1.0000	0.62050	
94 4-Bromophenylphenylether	248.0	9.329	9.329	0.000	5722	1.0000	0.84840	
96 Hexachlorobenzene	284.0	9.409	9.409	0.000	5359	1.0000	0.91171	
202 Octadecane	57.0	9.516	9.516	0.000	26706	1.0000	0.81720	
99 Pentachlorophenol	266.0	9.581	9.581	0.000	3216	2.0000	2.7535	
* 102 Phenanthrene-d10	188.0	9.752	9.752	0.000	733044	20.000	20.000	
103 Phenanthrene	178.0	9.773	9.773	0.000	36959	1.0000	0.95990	
104 Anthracene	178.0	9.816	9.816	0.000	33050	1.0000	0.92937	
106 Carbazole	167.0	9.944	9.944	0.000	27213	1.0000	0.82943	
109 Di-n-butylphthalate	149.0	10.148	10.148	0.000	25588	1.0000	0.70432	
114 Fluoranthene	202.0	10.886	10.886	0.000	26355	1.0000	0.87618	
116 Pyrene	202.0	11.148	11.148	0.000	25847	1.0000	1.0009	

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 117 Terphenyl-d14	244.0	11.239	11.239	0.000	15983	1.0000	0.9910	
122 Butylbenzylphthalate	149.0	11.763	11.763	0.000	5466	1.0000	1.1452	
130 bis(2-Ethylhexyl)phthalate	149.0	12.496	12.496	0.000	5960	1.0000	1.1863	
127 Benzo(a)Anthracene	228.0	12.651	12.651	0.000	15788	1.0000	0.90325	
* 128 Chrysene-d12	240.0	12.667	12.667	0.000	275346	20.000	20.000	
129 Chrysene	228.0	12.704	12.704	0.000	17805	1.0000	1.0126	
131 Di-n-octylphthalate	149.0	13.490	13.490	0.000	8894	1.0000	1.2059	
132 Benzo(b)fluoranthene	252.0	14.314	14.314	0.000	11380	1.0000	0.89101	M
134 Benzo(k)fluoranthene	252.0	14.357	14.357	0.000	13179	1.0000	0.93464	
135 Benzo(a)pyrene	252.0	14.876	14.876	0.000	9661	1.0000	0.90159	
* 136 Perylene-d12	264.0	14.967	14.967	0.000	216726	20.000	20.000	
138 Indeno(1,2,3-c,d)pyrene	276.0	17.181	17.181	0.000	11198	1.0000	0.87842	
139 Dibenzo(a,h)anthracene	278.0	17.208	17.208	0.000	8907	1.0000	0.85438	
140 Benzo(g,h,i)perylene	276.0	17.839	17.839	0.000	9870	1.0000	0.90849	

Compound Type Legend

$ - Surrogate

* - ISTD

QC Flag Legend

Processing Flags

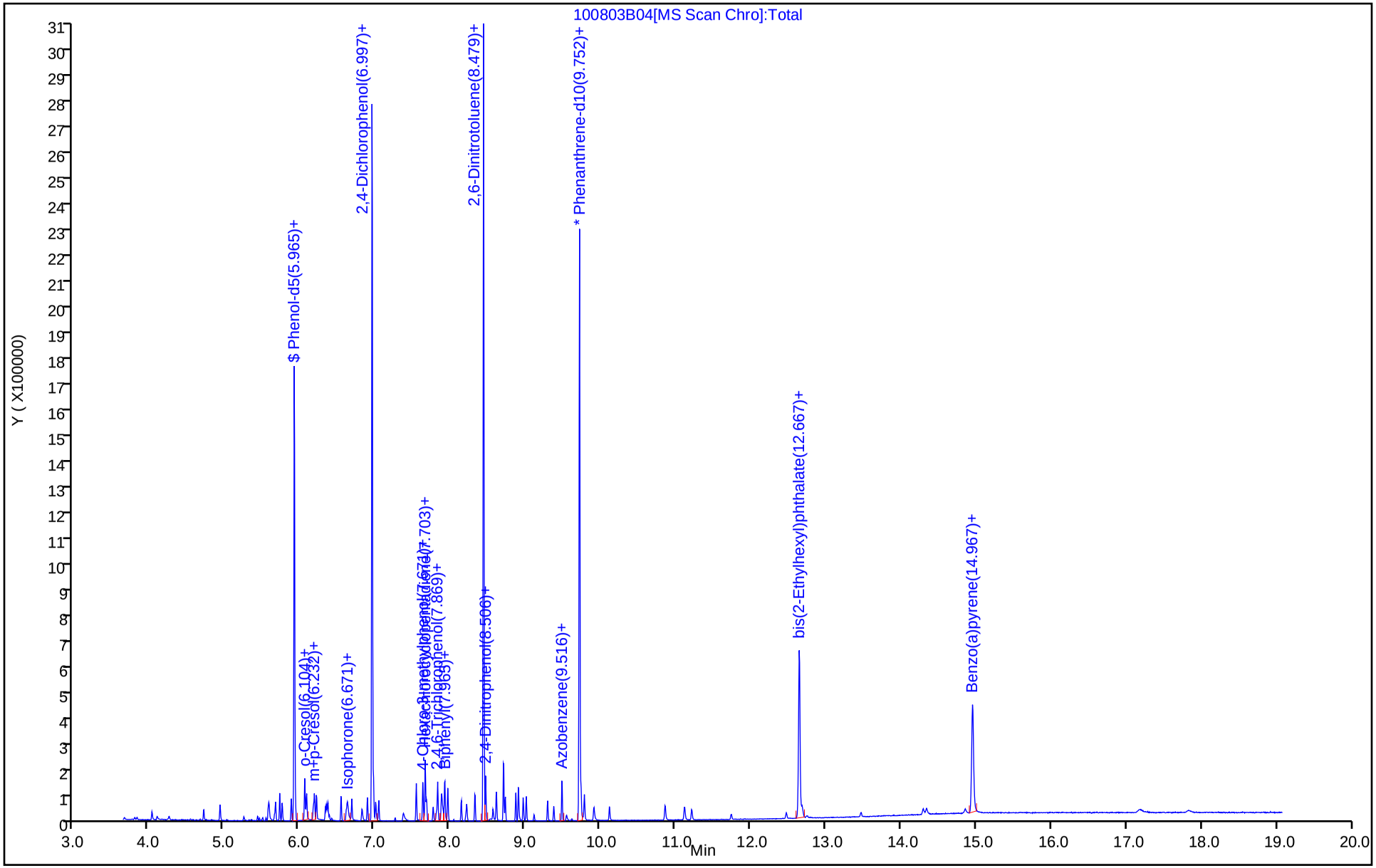
Review Flags

M - Compound Hit/Peak Manually Integrated

Report Date: 04-Aug-2023 08:45:35 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

Data File:	\\Organics\HH\chem\msd10.i\10080323B.b\100803B04.D				
Injection Date:	03-Aug-2023 15:23:30	Inst. ID:	msd10.i	Operator:	JCG
Client ID:	1STD001QB	Lab ID:	SVMS 6674		
Sample Info:	10080323B.b, SVMS 6674				
Injection Vol.	5.00	Dil. Factor:	1.0		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan		



Report Date: 04-Aug-2023 08:45:35 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

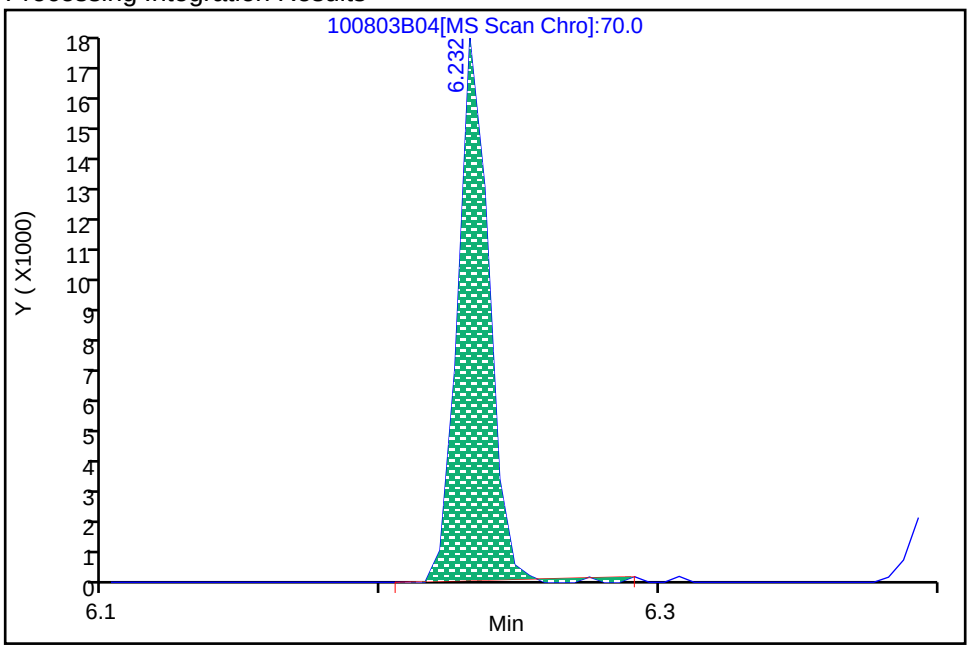
Manual Integration Report

Data File:	\\Organics\HH\chem\msd10.i\10080323B.b\100803B04.D		
Injection Date:	03-Aug-2023 15:23:30	Inst. ID:	msd10.i
Client ID:	1STD001QB	Lab ID:	SVMS 6674
Sample Info:	10080323B.b, SVMS 6674		
Injection Vol.	5.00	Dil. Factor:	1.0
Operator:	JCG		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan

26 n-Nitroso-di-n-propylamine, CAS: 621-64-7

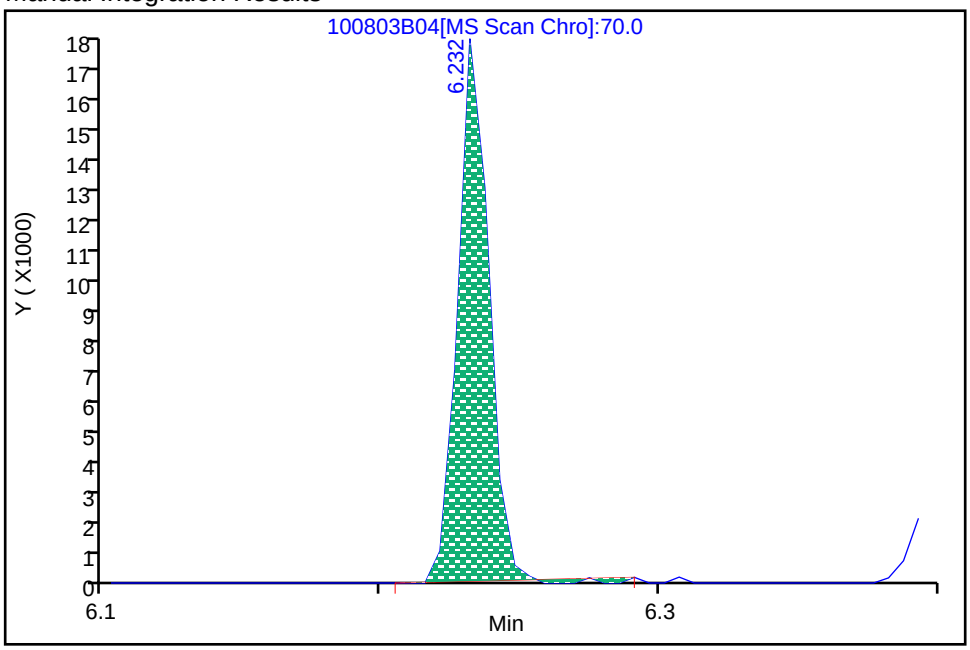
Processing Integration Results

RT: 6.232
Area: 13219
Amount: 0.90693
Amount Units: ng
Conc:



Manual Integration Results

RT: 6.232
Area: 13219
Amount: 0.87515
Amount Units: ng



Data Editor: jcg, 03-Aug-2023 16:06:30
Audit Action: Mint
Audit Reason: M-05, Manually Assign Peak

Report Date: 04-Aug-2023 08:45:35 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

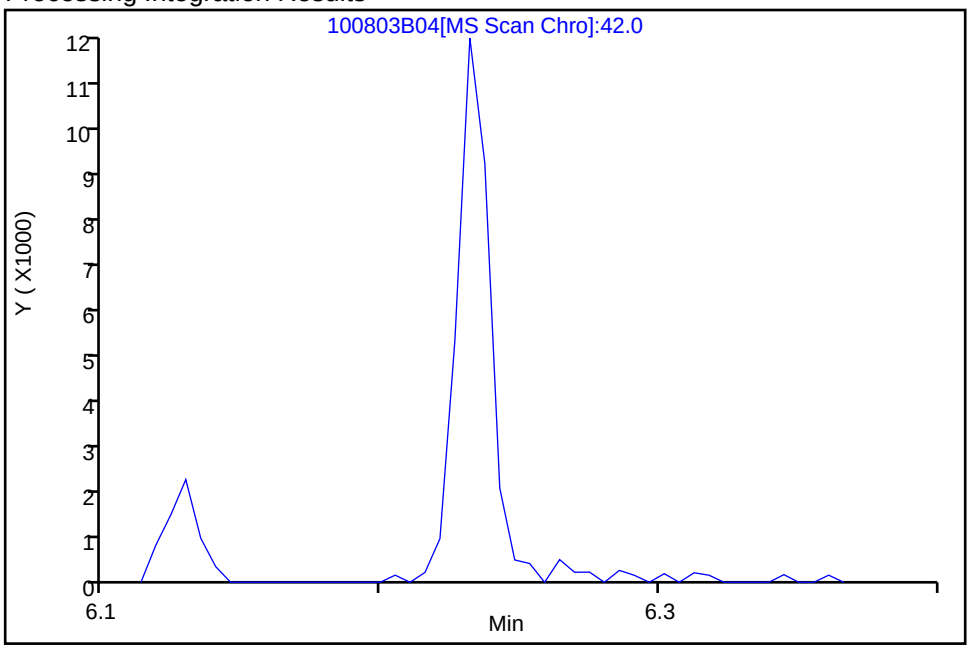
Manual Integration Report

Data File:	\\Organics\HH\chem\msd10.i\10080323B.b\100803B04.D		
Injection Date:	03-Aug-2023 15:23:30	Inst. ID:	msd10.i
Client ID:	1STD001QB	Lab ID:	SVMS 6674
Sample Info:	10080323B.b, SVMS 6674		
Injection Vol.	5.00	Dil. Factor:	1.0
Operator:	JCG		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan

26 n-Nitroso-di-n-propylamine, CAS: 621-64-7

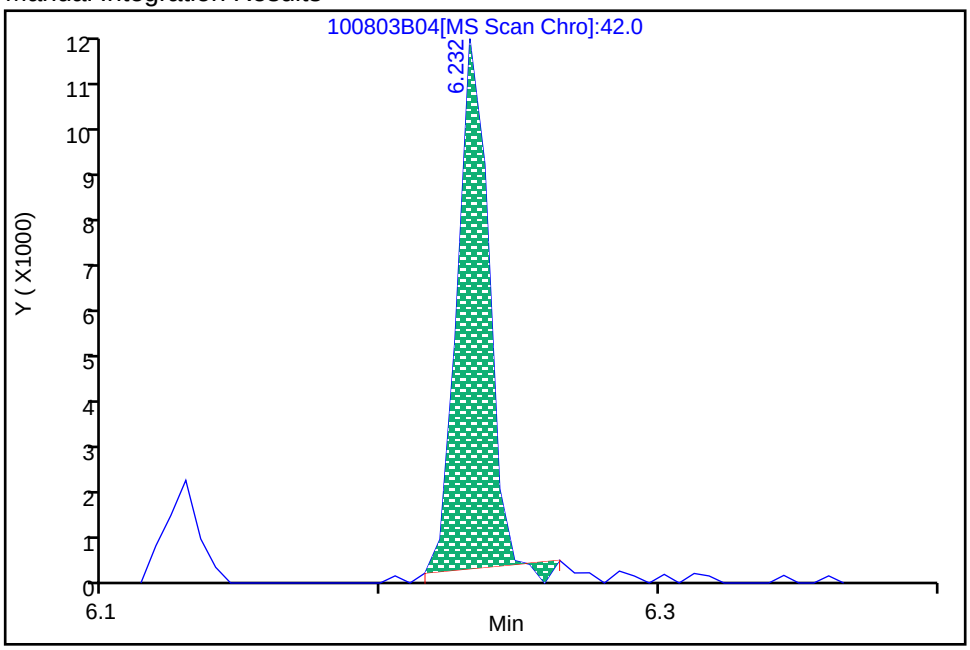
Processing Integration Results

RT: 6.264
Area: 0
Amount: 0.90693
Amount Units: ng
Conc:



Manual Integration Results

RT: 6.232
Area: 8866
Amount: 0.87515
Amount Units: ng



Data Editor: jcg, 03-Aug-2023 16:06:30
Audit Action: Mint
Audit Reason: M-05, Manually Assign Peak

Report Date: 04-Aug-2023 08:45:35 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

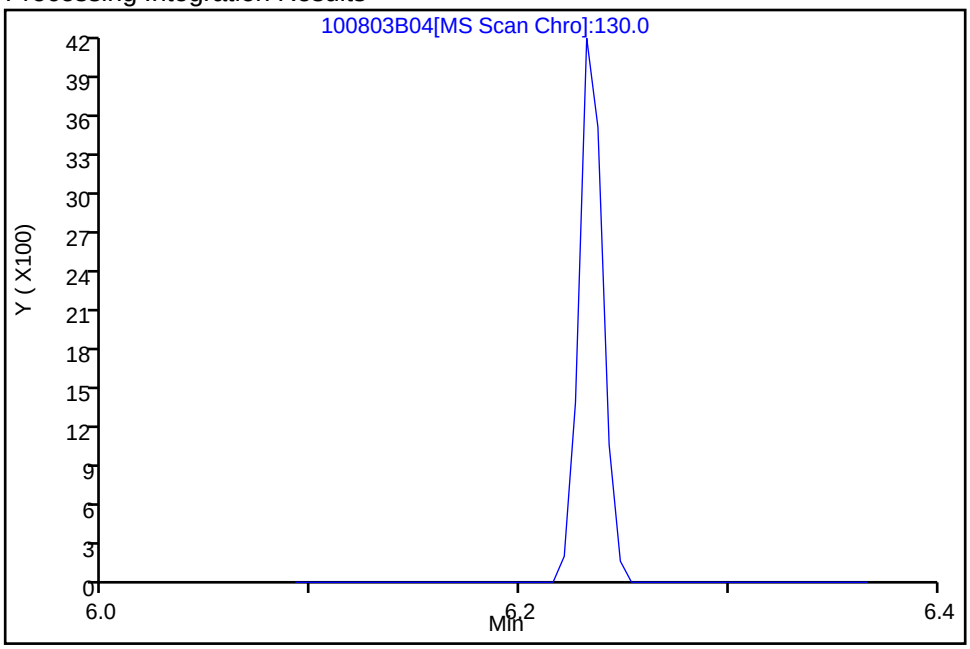
Manual Integration Report

Data File:	\\Organics\HH\chem\msd10.i\10080323B.b\100803B04.D		
Injection Date:	03-Aug-2023 15:23:30	Inst. ID:	msd10.i
Client ID:	1STD001QB	Lab ID:	SVMS 6674
Sample Info:	10080323B.b, SVMS 6674		
Injection Vol.	5.00	Dil. Factor:	1.0
Operator:	JCG		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan

26 n-Nitroso-di-n-propylamine, CAS: 621-64-7

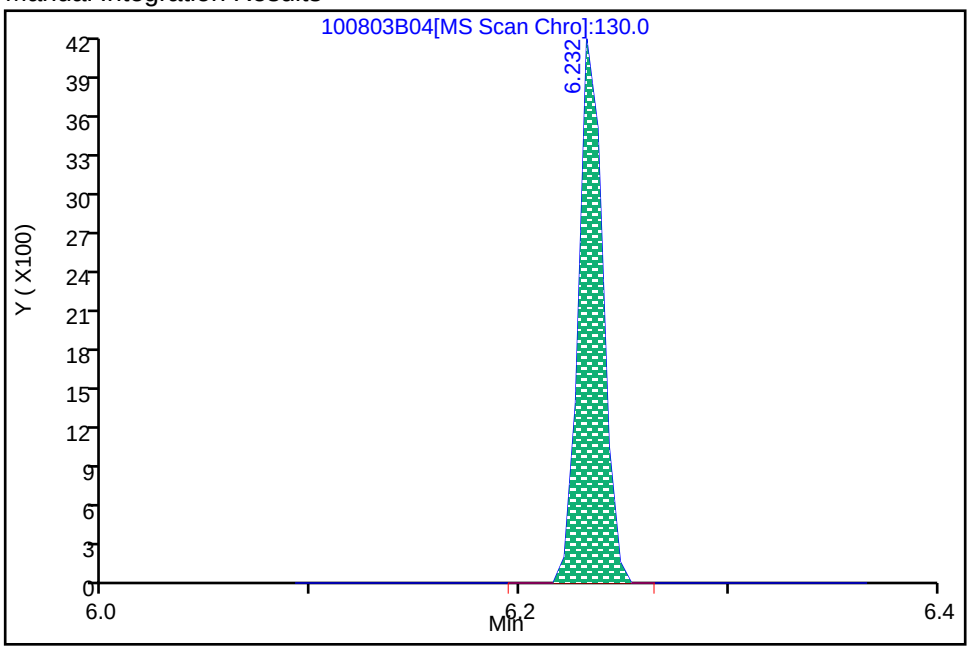
Processing Integration Results

RT:	6.264
Area:	0
Amount:	0.90693
Amount Units:	ng
Conc:	



Manual Integration Results

RT:	6.232
Area:	3316
Amount:	0.87515
Amount Units:	ng



Data Editor: jcg, 03-Aug-2023 16:06:30

Audit Action: Mint

Audit Reason: M-05, Manually Assign Peak

Report Date: 04-Aug-2023 08:45:35 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

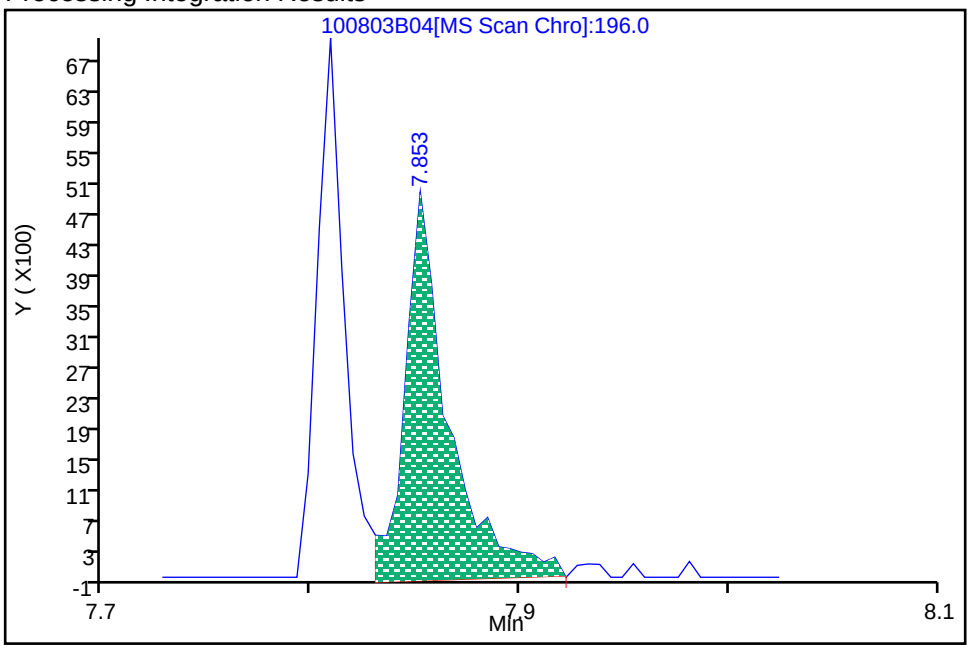
Manual Integration Report

Data File:	\\Organics\HH\chem\msd10.i\10080323B.b\100803B04.D		
Injection Date:	03-Aug-2023 15:23:30	Inst. ID:	msd10.i
Client ID:	1STD001QB	Lab ID:	SVMS 6674
Sample Info:	10080323B.b, SVMS 6674		
Injection Vol.	5.00	Dil. Factor:	1.0
Operator:	JCG		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan

55 2,4,5-Trichlorophenol, CAS: 95-95-4

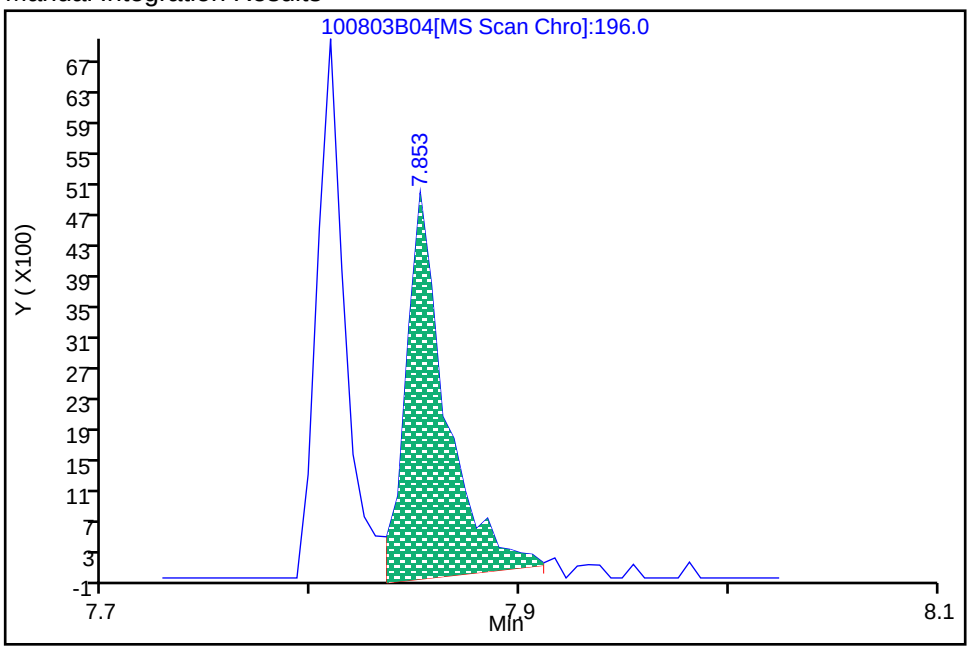
Processing Integration Results

RT: 7.853
Area: 7353
Amount: 0.71587
Amount Units: ng
Conc:



Manual Integration Results

RT: 7.853
Area: 6720
Amount: 0.78160
Amount Units: ng



Data Editor: jcg, 03-Aug-2023 16:06:30
Audit Action: Mint
Audit Reason: M-01, Split Peak

Report Date: 04-Aug-2023 08:45:35 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

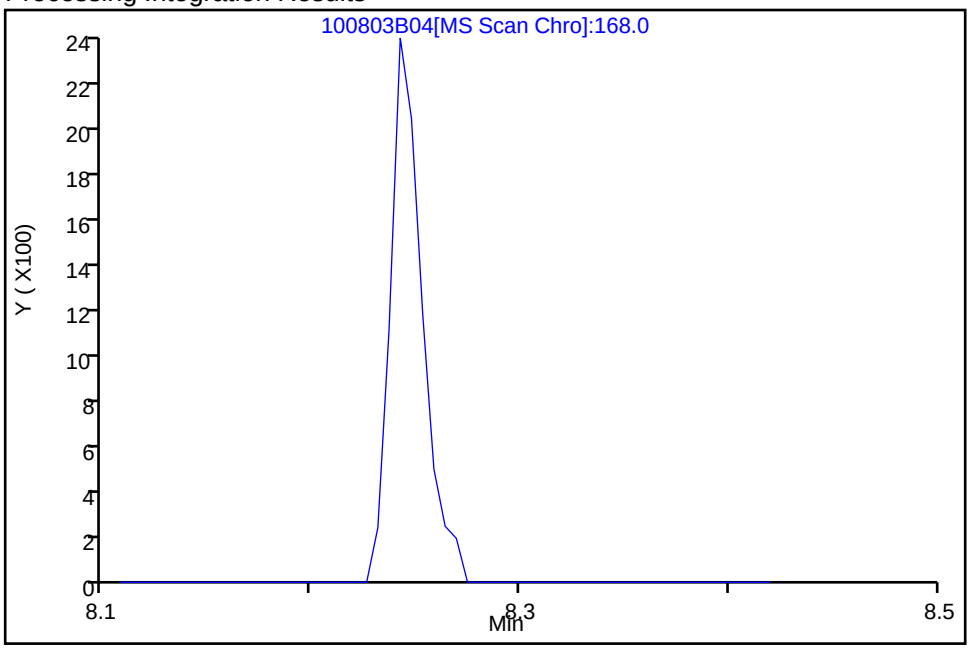
Manual Integration Report

Data File:	\\Organics\HH\chem\msd10.i\10080323B.b\100803B04.D		
Injection Date:	03-Aug-2023 15:23:30	Inst. ID:	msd10.i
Client ID:	1STD001QB	Lab ID:	SVMS 6674
Sample Info:	10080323B.b, SVMS 6674		
Injection Vol.	5.00	Dil. Factor:	1.0
Operator:	JCG		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan

63 m-Dinitrobenzene, CAS: 99-65-0

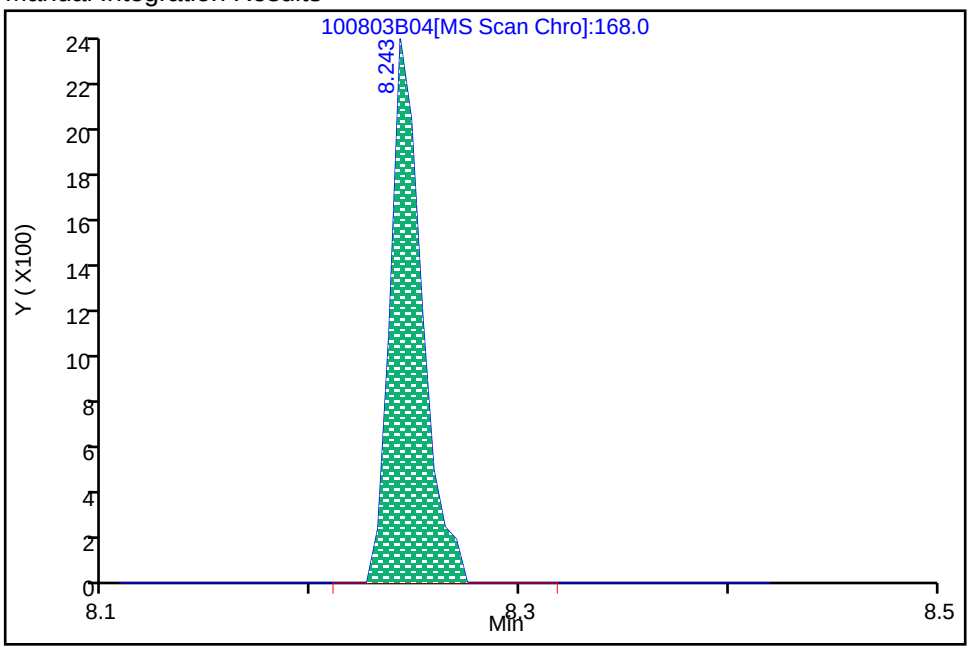
Processing Integration Results

Not Detected
Expected RT: 8.243
RT Window: 7.735-8.752



Manual Integration Results

RT: 8.243
Area: 2538
Amount: 0.51666
Amount Units: ng



Data Editor: jcg, 03-Aug-2023 16:07:30
Audit Action: Mint
Audit Reason: M-05, Manually Assign Peak

Report Date: 04-Aug-2023 08:45:35 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

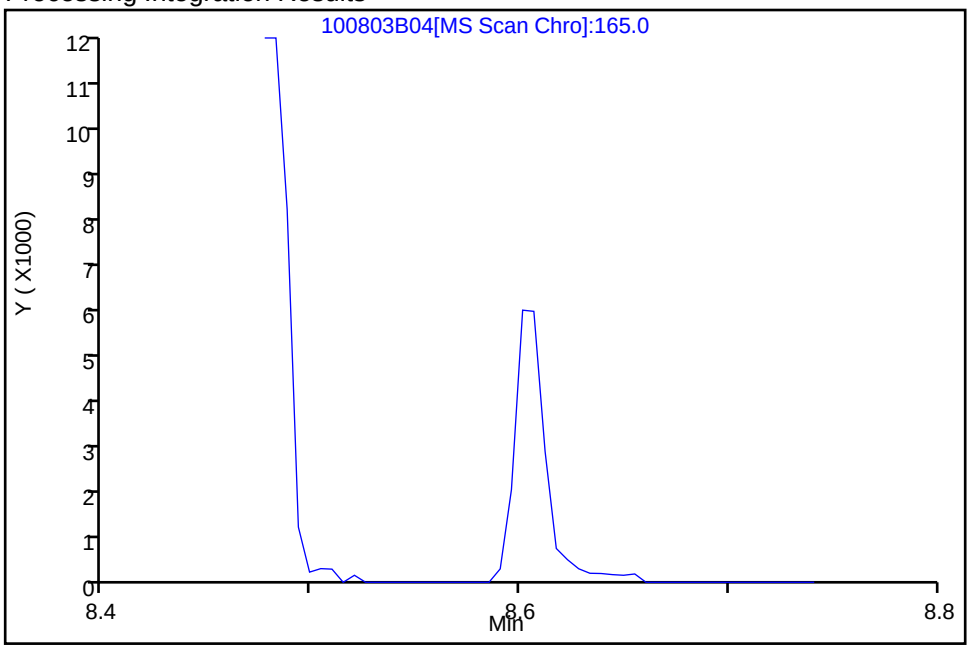
Manual Integration Report

Data File:	\\Organics\HH\chem\msd10.i\10080323B.b\100803B04.D		
Injection Date:	03-Aug-2023 15:23:30	Inst. ID:	msd10.i
Client ID:	1STD001QB	Lab ID:	SVMS 6674
Sample Info:	10080323B.b, SVMS 6674		
Injection Vol.	5.00	Dil. Factor:	1.0
Operator:	JCG		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan

73 2,4-Dinitrotoluene, CAS: 121-14-2

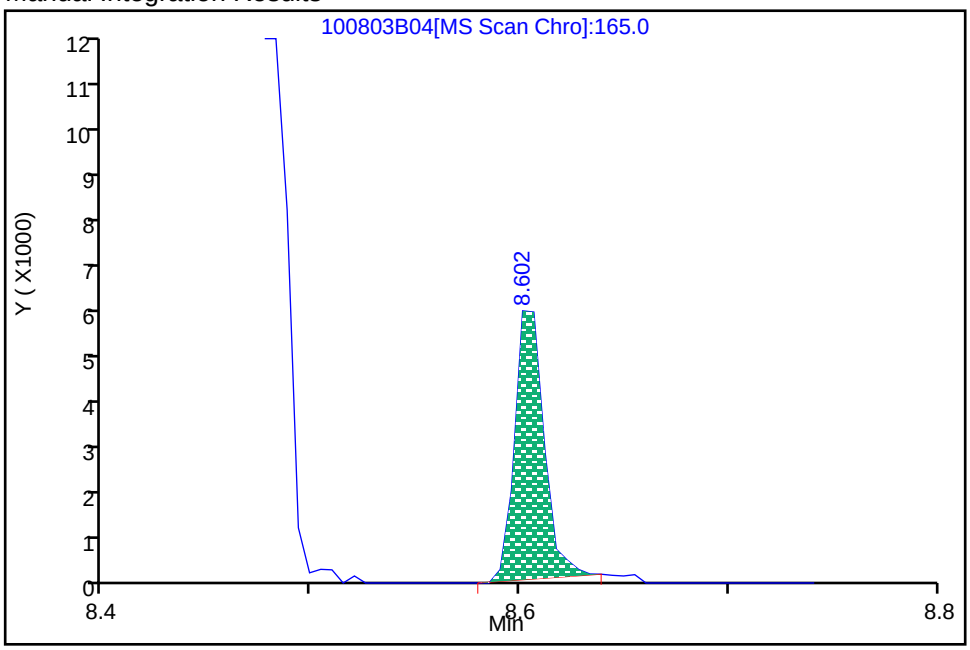
Not Detected
Expected RT: 8.602
RT Window: 8.093-9.110

Processing Integration Results



Manual Integration Results

RT: 8.602
Area: 5630
Amount: 0.67809
Amount Units: ng



Data Editor: jcg, 03-Aug-2023 16:07:30
Audit Action: Mint
Audit Reason: M-05, Manually Assign Peak

Report Date: 04-Aug-2023 08:45:35 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

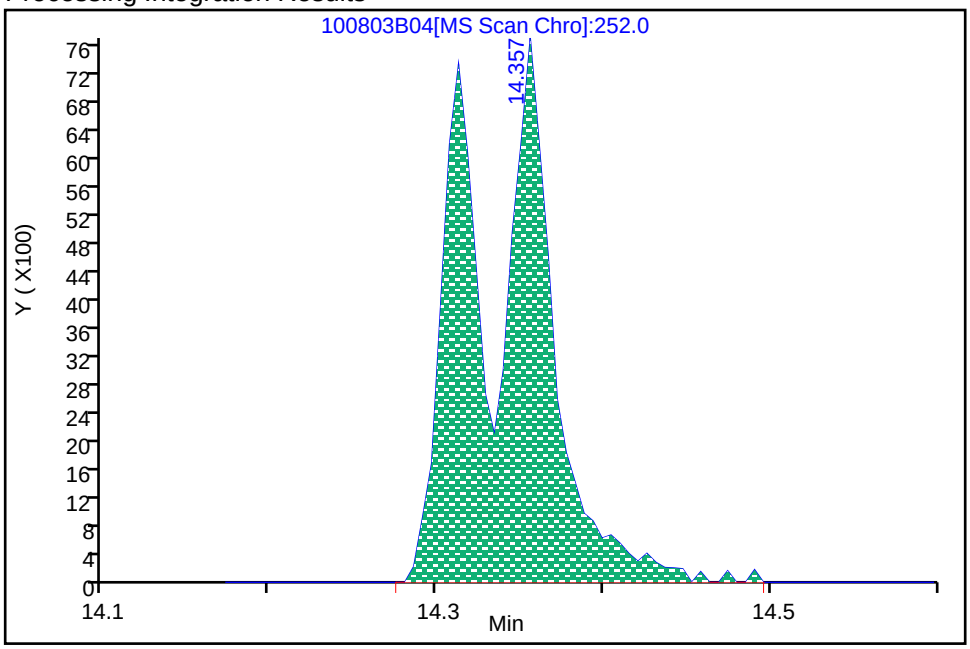
Manual Integration Report

Data File:	\\Organics\HH\chem\msd10.i\10080323B.b\100803B04.D		
Injection Date:	03-Aug-2023 15:23:30	Inst. ID:	msd10.i
Client ID:	1STD001QB	Lab ID:	SVMS 6674
Sample Info:	10080323B.b, SVMS 6674		
Injection Vol.	5.00	Dil. Factor:	1.0
Operator:	JCG		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan

132 Benzo(b)fluoranthene, CAS: 205-99-2

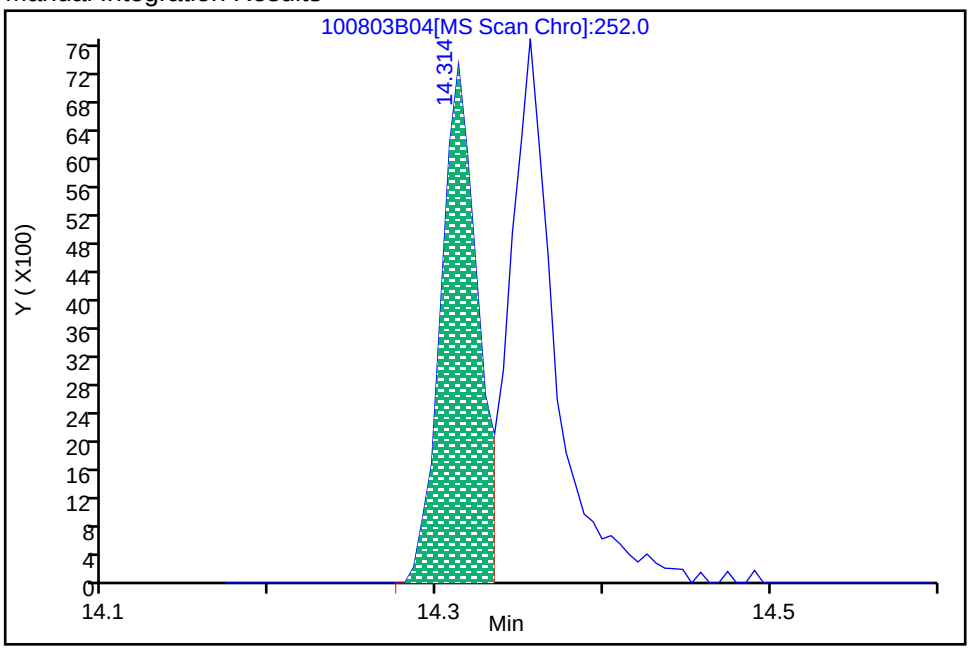
Processing Integration Results

RT: 14.357
Area: 25731
Amount: 1.8900
Amount Units: ng
Conc:



Manual Integration Results

RT: 14.314
Area: 11380
Amount: 0.89101
Amount Units: ng



Data Editor: jcg, 03-Aug-2023 16:07:30
Audit Action: Mint
Audit Reason: M-01, Split Peak

Report Date: 04-Aug-2023 08:45:35 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

Resolution Report

Data File:	\\Organics\HH\chem\msd10.i\10080323B.b\100803B04.D		
Injection Date:	03-Aug-2023 15:23:30	Inst. ID:	msd10.i
Client ID:	1STD001QB	Lab ID:	SVMS 6674
Sample Info:	10080323B.b, SVMS 6674		
Injection Vol.	5.00	Dil. Factor:	1.0
Operator:	JCG		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan

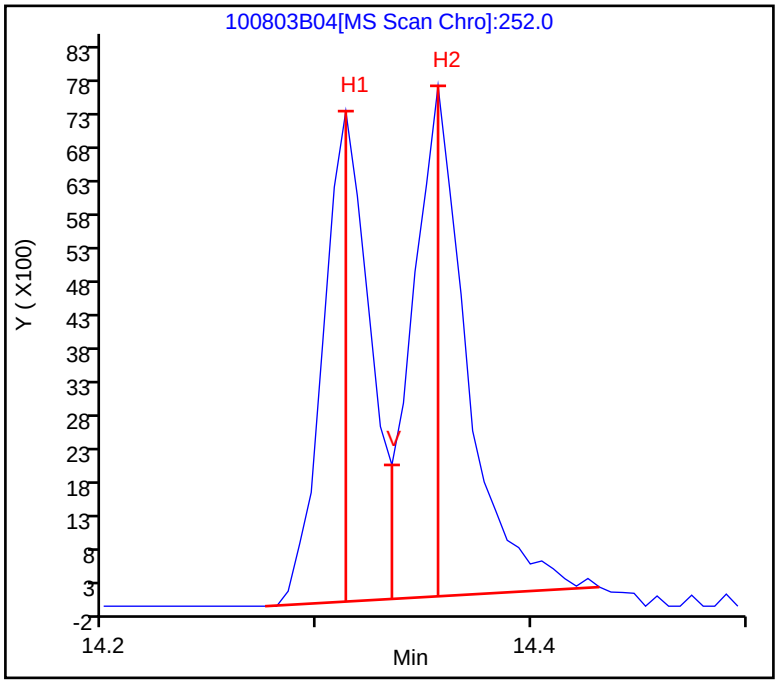
132 Benzo(b)fluoranthene @ 14.314 - 134 Benzo(k)fluoranthene @ 14.357

SW-846 Method
Version D

%Valley = (V / ((H1 + H2)/2)) * 100

V (Valley Height) = 1983
H1(132 Benzo(b)fluoranthen) = 7257
H2(134 Benzo(k)fluoranthen) = 7553

%Valley = 27 <= 50
Passed



Pace Environmental Services, LLC
Target Compound Quantitation Report

Data File: \\Organics\HH\chem\msd10.i\10080323B.b\100803B05.D
Lab Sample ID: SVMS 6675 Client Sample ID: 1STD002QB
Injection Date: 03-Aug-2023 15:48:30 Dil. Factor: 1.0
Operator: JCG Inst. ID: msd10.i
Sample Info: 10080323B.b, SVMS 6675
Misc. Info: 1STD002
Method: \\Organics\HH\chem\msd10.i\10080323B.b\8270DLVI-10.m
Method Date: 04-Aug-2023 08:45:30 Quant Method: ISTD
Calib Date: 03-Aug-2023 22:00:30 Calib File: 100803B20.D
Sample Type: Ical, Level: 3 ALS Bottle: 3
Cpnd Sublist: 1STD.sub
Matrix/Level: Soil/Low
Target 4.14 Integrator: falcon

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100)/Vi * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	5000.00	Volume of final extract (uL)(1000 low, 2000 med.
Ws	15.000	Weight of sample extracted (g)
M	0	% Moisture
Vi	5.0000	
Cpnd Variable		Local Cpnd Variable

Column1: ZebronZB-SV (0.25 mm) Detector: MS Scan
Data Reviewer: jcg Review Date: 03-Aug-2023 16:38:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
193 1,4-Dioxane	58.0	3.879	3.879	0.000	5332	2.0000	1.9356	
2 N-Nitrosodimethylamine	42.0	4.077	4.077	0.000	23021	2.0000	2.0043	
1 pyridine	79.0	4.136	4.136	0.000	17031	2.0000	2.0066	
$ 6 2-Fluorophenol	112.0	4.981	4.981	0.000	33878	2.0000	1.7247	
$ 9 Phenol-d5	99.0	5.623	5.623	0.000	45031	2.0000	1.7218	
10 Phenol	94.0	5.633	5.633	0.000	44323	2.0000	1.6637	
11 Aniline	66.0	5.628	5.628	0.000	17947	2.0000	1.7029	
12 bis(2-Chloroethyl)ether	63.0	5.719	5.719	0.000	34120	2.0000	1.8073	
201 n-Decane	57.0	5.772	5.772	0.000	44422	2.0000	1.9630	
13 2-Chlorophenol	128.0	5.804	5.804	0.000	34621	2.0000	1.7818	
14 1,3-Dichlorobenzene	146.0	5.927	5.927	0.000	36566	2.0000	1.9523	
* 16 1,4-Dichlorobenzene-d4	152.0	5.965	5.965	0.000	261070	20.000	20.000	
17 1,4-Dichlorobenzene	146.0	5.981	5.981	0.000	39747	2.0000	1.9423	
18 Benzyl alcohol	79.0		6.050		ND			
20 o-Cresol	108.0	6.104	6.104	0.000	37109	2.0000	1.8268	
19 1,2-Dichlorobenzene	146.0	6.104	6.104	0.000	35986	2.0000	1.8371	
21 bis(2Chloro1methylethyl)ether	45.0	6.131	6.131	0.000	87823	2.0000	1.9740	
23 m+p-Cresol	107.0	6.222	6.222	0.000	35375	2.0000	1.6629	
26 n-Nitroso-di-n-propylamine	70.0	6.232	6.232	0.000	32229	2.0000	1.8758	
24 Acetophenone	105.0	6.259	6.259	0.000	51052	2.0000	1.8402	
28 Hexachloroethane	117.0	6.382	6.382	0.000	14452	2.0000	1.9613	
$ 29 Nitrobenzene-d5	82.0	6.398	6.398	0.000	42704	2.0000	1.9027	

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
30 Nitrobenzene	77.0	6.414	6.414	0.000	39924	2.0000	1.8067	
32 Isophorone	82.0	6.585	6.585	0.000	77242	2.0000	1.9241	
34 2,4-Dimethylphenol	107.0	6.655	6.655	0.000	26812	2.0000	2.1185	
33 2-Nitrophenol	139.0	6.671	6.671	0.000	18028	2.0000	1.7803	
35 bis(2-Chloroethoxy)methane	93.0	6.730	6.730	0.000	49723	2.0000	1.8879	
36 Benzoic acid	105.0	6.687	6.687	0.000	33806	4.0000	2.5070	
38 2,4-Dichlorophenol	162.0	6.863	6.863	0.000	25392	2.0000	1.8546	
45 2,6-Dichlorophenol	162.0	7.045	7.045	0.000	25783	2.0000	1.9570	
40 1,2,4-Trichlorobenzene	180.0	6.938	6.938	0.000	27758	2.0000	1.9258	
* 41 Naphthalene-d8	136.0	6.997	6.997	0.000	1155964	20.000	20.000	
43 Naphthalene	128.0	7.018	7.018	0.000	123934	2.0000	1.9558	
47 Hexachlorobutadiene	224.6	7.088	7.088	0.000	13942	2.0000	1.9328	
49 4-Chloro-3-methylphenol	107.0	7.409	7.409	0.000	30368	2.0000	1.9729	
51 2-Methylnaphthalene	142.0	7.585	7.585	0.000	72992	2.0000	2.0121	
204 1-Methylnaphthalene	142.0	7.671	7.671	0.000	71697	2.0000	1.9532	
53 Hexachlorocyclopentadiene	237.0	7.703	7.703	0.000	62525	10.000	9.3842	
52 1,2,4,5-Tetrachlorobenzene	216.0	7.725	7.725	0.000	25399	2.0000	1.7219	
54 2,4,6-Trichlorophenol	196.0	7.805	7.805	0.000	14382	2.0000	1.7587	
55 2,4,5-Trichlorophenol	196.0	7.848	7.848	0.000	14803	2.0000	1.6898	
$ 56 2-Fluorobiphenyl	172.0	7.869	7.869	0.000	76151	2.0000	1.8963	
184 Biphenyl	154.0	7.965	7.965	0.000	84363	2.0000	1.8757	
58 2-Chloronaphthalene	162.0	8.003	8.003	0.000	62580	2.0000	1.8890	
63 m-Dinitrobenzene	168.0	8.243	8.243	0.000	7257	2.0000	1.4500	
62 Dimethylphthalate	163.0	8.185	8.185	0.000	57529	2.0000	1.8812	
65 2,6-Dinitrotoluene	165.0	8.254	8.254	0.000	12997	2.0000	1.7453	
64 Acenaphthylene	152.0	8.366	8.366	0.000	87720	2.0000	1.9462	
* 67 Acenaphthene-d10	164.0	8.479	8.479	0.000	593721	20.000	20.000	
69 2,4-Dinitrophenol	184.0	8.505	8.505	0.000	7306	4.0000	4.3717	
68 Acenaphthene	153.0	8.505	8.505	0.000	67686	2.0000	1.9023	
70 4-Nitrophenol	109.0	8.559	8.559	0.000	9714	4.0000	3.3094	M
73 2,4-Dinitrotoluene	165.0	8.602	8.602	0.000	14411	2.0000	1.7036	
71 Dibenzofuran	168.0	8.650	8.650	0.000	80660	2.0000	1.9221	
76 2,3,4,6-Tetrachlorophenol	232.0	8.741	8.741	0.000	10253	2.0000	1.7454	
78 Diethylphthalate	149.0	8.768	8.768	0.000	55351	2.0000	1.9443	
80 4-Chlorophenylphenylether	204.0	8.907	8.907	0.000	27929	2.0000	1.8961	
79 Fluorene	166.0	8.939	8.939	0.000	65228	2.0000	1.9257	
84 4,6-Dinitro-2-methylphenol	198.0	8.955	8.955	0.000	4704	2.0000	1.0345	
86 n-Nitrosodiphenylamine	169.0	9.003	9.003	0.000	38995	2.0000	1.7712	
87 Azobenzene	77.0	9.046	9.046	0.000	73501	2.0000	1.8236	
$ 88 2,4,6-Tribromophenol	330.0	9.147	9.147	0.000	4216	2.0000	1.6652	
94 4-Bromophenylphenylether	248.0	9.329	9.329	0.000	12492	2.0000	1.8498	
96 Hexachlorobenzene	284.0	9.409	9.409	0.000	10815	2.0000	1.8376	
202 Octadecane	57.0	9.516	9.516	0.000	57905	2.0000	1.7696	
99 Pentachlorophenol	266.0	9.575	9.575	0.000	10053	4.0000	4.4512	
* 102 Phenanthrene-d10	188.0	9.752	9.752	0.000	733989	20.000	20.000	
103 Phenanthrene	178.0	9.773	9.773	0.000	73215	2.0000	1.8991	
104 Anthracene	178.0	9.816	9.816	0.000	66445	2.0000	1.8660	
106 Carbazole	167.0	9.939	9.939	0.000	60902	2.0000	1.8538	
109 Di-n-butylphthalate	149.0	10.147	10.147	0.000	63424	2.0000	1.7435	
114 Fluoranthene	202.0	10.886	10.886	0.000	56841	2.0000	1.8873	
116 Pyrene	202.0	11.142	11.142	0.000	57257	2.0000	2.0081	

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 117 Terphenyl-d14	244.0	11.239	11.239	0.000	35422	2.0000	1.9891	
122 Butylbenzylphthalate	149.0	11.763	11.763	0.000	14279	2.0000	1.8710	
130 bis(2-Ethylhexyl)phthalate	149.0	12.496	12.496	0.000	16324	2.0000	1.8664	
127 Benzo(a)Anthracene	228.0	12.656	12.656	0.000	36496	2.0000	1.8911	
* 128 Chrysene-d12	240.0	12.667	12.667	0.000	304011	20.000	20.000	
129 Chrysene	228.0	12.709	12.709	0.000	38313	2.0000	1.9734	
131 Di-n-octylphthalate	149.0	13.490	13.490	0.000	25398	2.0000	1.8785	
132 Benzo(b)fluoranthene	252.0	14.314	14.314	0.000	27493	2.0000	1.8688	
134 Benzo(k)fluoranthene	252.0	14.357	14.357	0.000	30096	2.0000	1.8530	
135 Benzo(a)pyrene	252.0	14.870	14.870	0.000	23159	2.0000	1.8763	
* 136 Perylene-d12	264.0	14.972	14.972	0.000	249635	20.000	20.000	
138 Indeno(1,2,3-c,d)pyrene	276.0	17.170	17.170	0.000	27887	2.0000	1.7475	
139 Dibenzo(a,h)anthracene	278.0	17.181	17.181	0.000	22868	2.0000	1.7209	
140 Benzo(g,h,i)perylene	276.0	17.823	17.823	0.000	23804	2.0000	1.9022	

Compound Type Legend

$ - Surrogate

* - ISTD

QC Flag Legend

Processing Flags

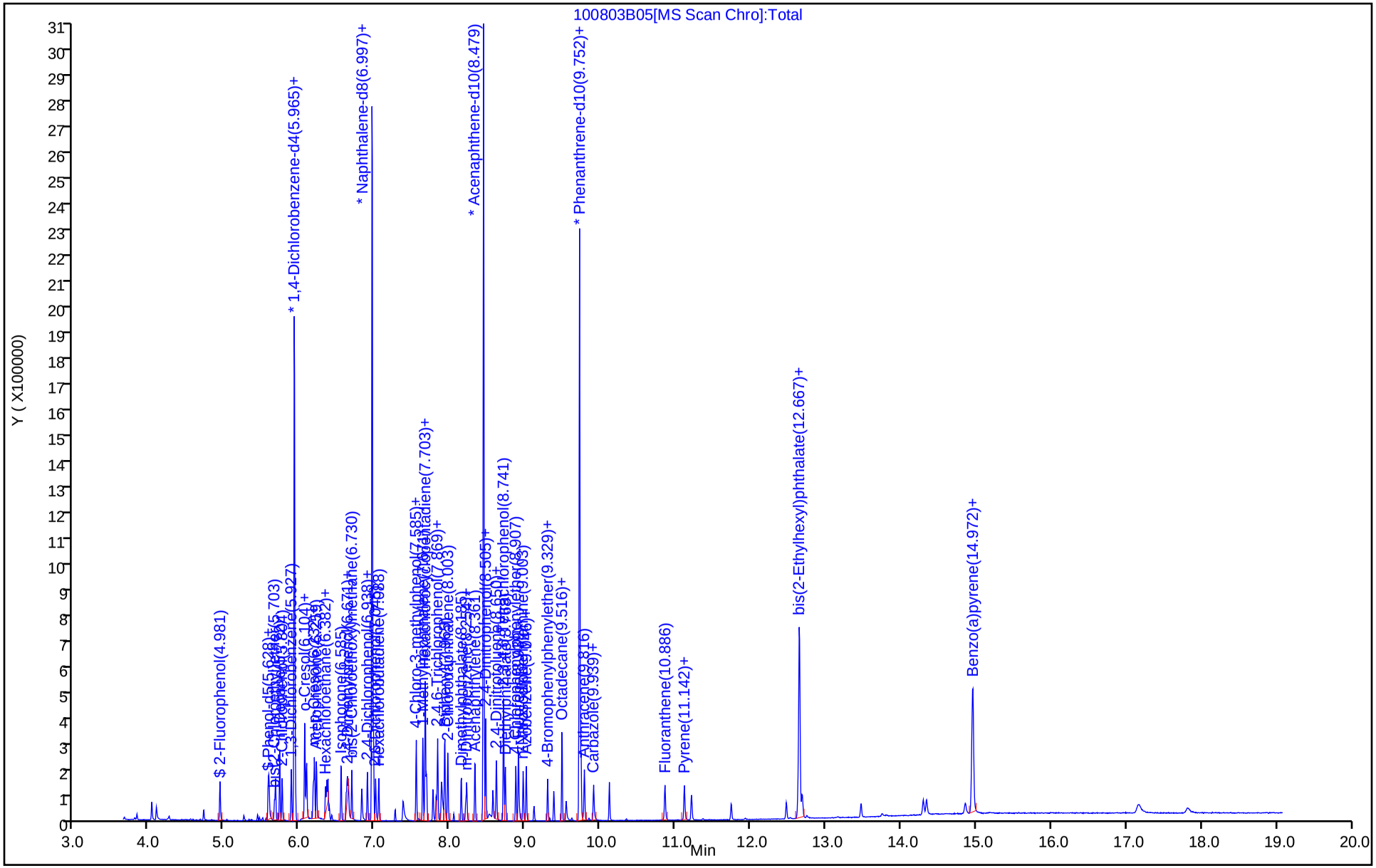
Review Flags

M - Compound Hit/Peak Manually Integrated

Report Date: 04-Aug-2023 08:45:36 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

Data File:	\\Organics\HH\chem\msd10.i\10080323B.b\100803B05.D				
Injection Date:	03-Aug-2023 15:48:30	Inst. ID:	msd10.i	Operator:	JCG
Client ID:	1STD002QB	Lab ID:	SVMS 6675		
Sample Info:	10080323B.b, SVMS 6675				
Injection Vol.	5.00	Dil. Factor:	1.0		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan		



Report Date: 04-Aug-2023 08:45:36 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

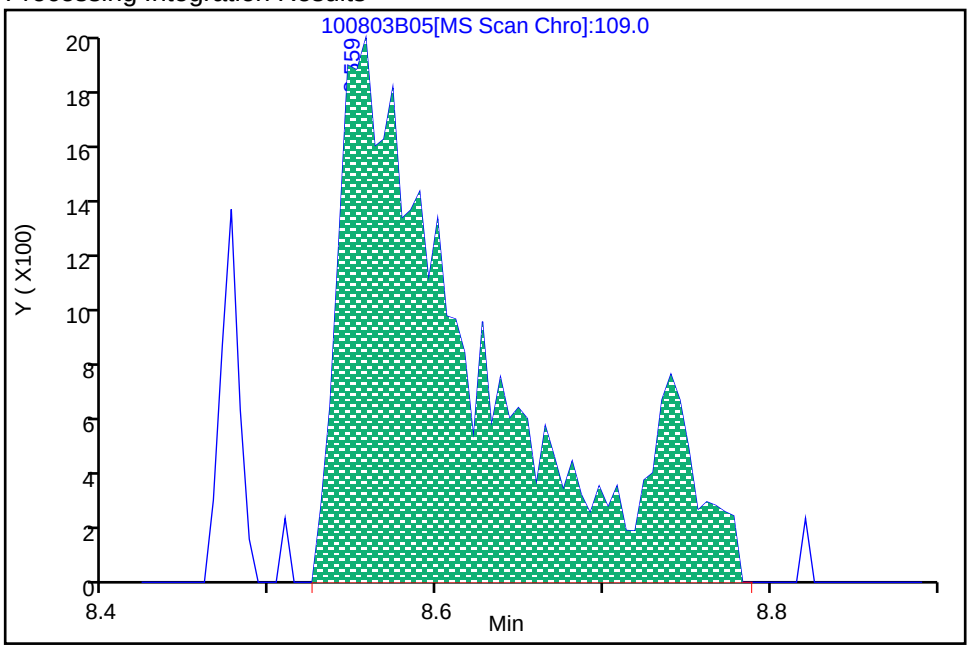
Manual Integration Report

Data File:	\\Organics\HH\chem\msd10.i\10080323B.b\100803B05.D		
Injection Date:	03-Aug-2023 15:48:30	Inst. ID:	msd10.i
Client ID:	1STD002QB	Lab ID:	SVMS 6675
Sample Info:	10080323B.b, SVMS 6675		
Injection Vol.	5.00	Dil. Factor:	1.0
Operator:	JCG		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan

70 4-Nitrophenol, CAS: 100-02-7

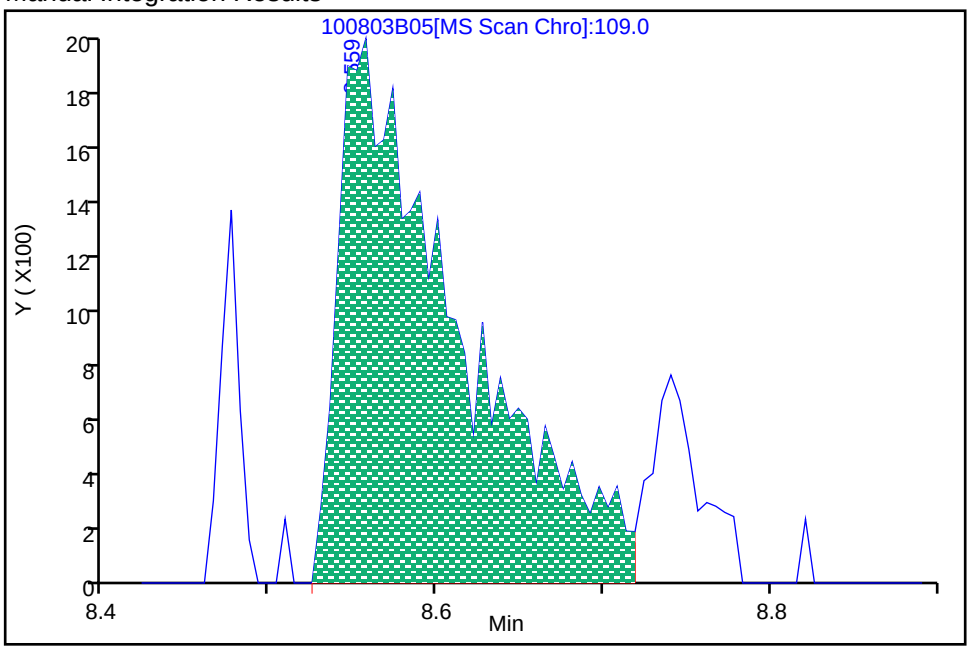
Processing Integration Results

RT: 8.559
Area: 11184
Amount: 0
Amount Units: ng
Conc:



Manual Integration Results

RT: 8.559
Area: 9714
Amount: 3.3094
Amount Units: ng



Data Editor: jcg, 03-Aug-2023 16:38:30
Audit Action: Mint
Audit Reason: M-03, Incorrect Auto Integration

Report Date: 04-Aug-2023 08:45:36 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

Resolution Report

Data File:	\\Organics\HH\chem\msd10.i\10080323B.b\100803B05.D		
Injection Date:	03-Aug-2023 15:48:30	Inst. ID:	msd10.i
Client ID:	1STD002QB	Lab ID:	SVMS 6675
Sample Info:	10080323B.b, SVMS 6675		
Injection Vol.	5.00	Dil. Factor:	1.0
Operator:	JCG		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan

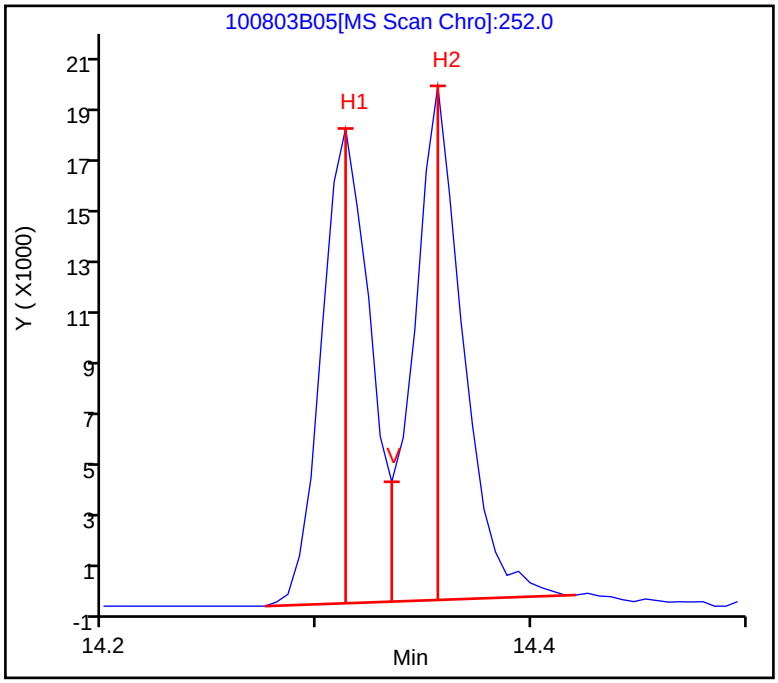
132 Benzo(b)fluoranthene @ 14.314 - 134 Benzo(k)fluoranthene @ 14.357

SW-846 Method
Version D

%Valley = (V / ((H1 + H2)/2)) * 100

V (Valley Height) = 4479
H1(132 Benzo(b)fluoranthen) = 17748
H2(134 Benzo(k)fluoranthen) = 19217

%Valley = 24 <= 50
Passed



Pace Environmental Services, LLC
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd10.i\10080323B.b\100803B06.D		
Lab Sample ID:	SVMS 6676	Client Sample ID:	1STD005QB
Injection Date:	03-Aug-2023 16:12:30	Dil. Factor:	1.0
Operator:	JCG	Inst. ID:	msd10.i
Sample Info:	10080323B.b, SVMS 6676		
Misc. Info:	1STD005		
Method:	\\Organics\HH\chem\msd10.i\10080323B.b\8270DLVI-10.m		
Method Date:	04-Aug-2023 08:45:30	Quant Method:	ISTD
Calib Date:	03-Aug-2023 22:00:30	Calib File:	100803B20.D
Sample Type:	Ical, Level: 4	ALS Bottle:	4
Cpnd Sublist:	1STD.sub		
Matrix/Level:	Soil/Low		
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100)/Vi * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	5000.00	Volume of final extract (uL)(1000 low, 2000 med.
Ws	15.000	Weight of sample extracted (g)
M	0	% Moisture
Vi	5.0000	
Cpnd Variable		Local Cpnd Variable

Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	jcg	Review Date:	03-Aug-2023 16:39:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
193 1,4-Dioxane	58.0	3.884	3.884	0.000	12099	5.0000	4.9403	
2 N-Nitrosodimethylamine	42.0	4.077	4.077	0.000	49970	5.0000	4.8935	
1 pyridine	79.0	4.136	4.136	0.000	38697	5.0000	5.1282	
$ 6 2-Fluorophenol	112.0	4.981	4.981	0.000	96105	5.0000	5.5031	
$ 9 Phenol-d5	99.0	5.622	5.622	0.000	127598	5.0000	5.4878	
10 Phenol	94.0	5.633	5.633	0.000	126607	5.0000	5.3452	
11 Aniline	66.0	5.633	5.633	0.000	50805	5.0000	5.4221	
12 bis(2-Chloroethyl)ether	63.0	5.719	5.719	0.000	93379	5.0000	5.5635	
201 n-Decane	57.0	5.772	5.772	0.000	95224	5.0000	4.7330	
13 2-Chlorophenol	128.0	5.804	5.804	0.000	94331	5.0000	5.4608	
14 1,3-Dichlorobenzene	146.0	5.927	5.927	0.000	79694	5.0000	4.7859	
* 16 1,4-Dichlorobenzene-d4	152.0	5.970	5.970	0.000	232105	20.000	20.000	
17 1,4-Dichlorobenzene	146.0	5.981	5.981	0.000	87275	5.0000	4.7971	
18 Benzyl alcohol	79.0	6.050	6.050	0.000	20363	5.0000	2.9740	
20 o-Cresol	108.0	6.104	6.104	0.000	93158	5.0000	5.1582	
19 1,2-Dichlorobenzene	146.0	6.104	6.104	0.000	82391	5.0000	4.7309	
21 bis(2Chloro1methylethyl)ether	45.0	6.131	6.131	0.000	217470	5.0000	5.4981	
23 m+p-Cresol	107.0	6.222	6.222	0.000	106156	5.0000	5.6128	
26 n-Nitroso-di-n-propylamine	70.0	6.238	6.238	0.000	84054	5.0000	5.5025	
24 Acetophenone	105.0	6.264	6.264	0.000	136539	5.0000	5.5357	
28 Hexachloroethane	117.0	6.382	6.382	0.000	31224	5.0000	4.7663	
$ 29 Nitrobenzene-d5	82.0	6.398	6.398	0.000	115906	5.0000	4.9691	

Report Date: 04-Aug-2023 08:45:36 AIM Revision: 1.0 07-Jul-2023 13:11:40
Data File: \\Organics\HH\chem\msd10.i\10080323B.b\100803B06.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
30 Nitrobenzene	77.0	6.414	6.414	0.000	110611	5.0000	4.8162	
32 Isophorone	82.0	6.591	6.591	0.000	202339	5.0000	4.8498	
34 2,4-Dimethylphenol	107.0	6.655	6.655	0.000	68093	5.0000	5.1769	
33 2-Nitrophenol	139.0	6.671	6.671	0.000	49024	5.0000	4.6581	
35 bis(2-Chloroethoxy)methane	93.0	6.730	6.730	0.000	131060	5.0000	4.7880	
36 Benzoic acid	105.0	6.703	6.703	0.000	114256	10.000	8.1528	
38 2,4-Dichlorophenol	162.0	6.863	6.863	0.000	68619	5.0000	4.8225	
45 2,6-Dichlorophenol	162.0	7.045	7.045	0.000	64801	5.0000	4.7327	
40 1,2,4-Trichlorobenzene	180.0	6.938	6.938	0.000	71465	5.0000	4.7707	
* 41 Naphthalene-d8	136.0	7.002	7.002	0.000	1201377	20.000	20.000	
43 Naphthalene	128.0	7.018	7.018	0.000	310338	5.0000	4.7122	
47 Hexachlorobutadiene	224.6	7.088	7.088	0.000	35322	5.0000	4.7116	
49 4-Chloro-3-methylphenol	107.0	7.409	7.409	0.000	78983	5.0000	4.9372	
51 2-Methylnaphthalene	142.0	7.585	7.585	0.000	182875	5.0000	4.8505	
204 1-Methylnaphthalene	142.0	7.671	7.671	0.000	178408	5.0000	4.6767	
53 Hexachlorocyclopentadiene	237.0	7.703	7.703	0.000	179606	25.000	20.784	
52 1,2,4,5-Tetrachlorobenzene	216.0	7.724	7.724	0.000	65641	5.0000	4.4933	
54 2,4,6-Trichlorophenol	196.0	7.805	7.805	0.000	37169	5.0000	4.5893	
55 2,4,5-Trichlorophenol	196.0	7.848	7.848	0.000	40237	5.0000	4.6378	
$ 56 2-Fluorobiphenyl	172.0	7.869	7.869	0.000	184087	5.0000	4.6286	
184 Biphenyl	154.0	7.965	7.965	0.000	209756	5.0000	4.7088	
58 2-Chloronaphthalene	162.0	8.003	8.003	0.000	154607	5.0000	4.7121	
63 m-Dinitrobenzene	168.0	8.243	8.243	0.000	21254	5.0000	4.2878	
62 Dimethylphthalate	163.0	8.184	8.184	0.000	147650	5.0000	4.8751	
65 2,6-Dinitrotoluene	165.0	8.254	8.254	0.000	34788	5.0000	4.7170	
64 Acenaphthylene	152.0	8.366	8.366	0.000	215439	5.0000	4.8262	
* 67 Acenaphthene-d10	164.0	8.479	8.479	0.000	588012	20.000	20.000	
69 2,4-Dinitrophenol	184.0	8.500	8.500	0.000	27909	10.000	8.8353	
68 Acenaphthene	153.0	8.505	8.505	0.000	160901	5.0000	4.5660	
70 4-Nitrophenol	109.0	8.537	8.537	0.000	26298	10.000	9.0464	M
73 2,4-Dinitrotoluene	165.0	8.602	8.602	0.000	38752	5.0000	4.6254	
71 Dibenzofuran	168.0	8.650	8.650	0.000	196534	5.0000	4.7289	
76 2,3,4,6-Tetrachlorophenol	232.0	8.741	8.741	0.000	26592	5.0000	4.5707	
78 Diethylphthalate	149.0	8.767	8.767	0.000	136722	5.0000	4.8491	
80 4-Chlorophenylphenylether	204.0	8.907	8.907	0.000	68993	5.0000	4.7295	
79 Fluorene	166.0	8.944	8.944	0.000	158237	5.0000	4.7170	
84 4,6-Dinitro-2-methylphenol	198.0	8.955	8.955	0.000	15813	5.0000	3.6126	
86 n-Nitrosodiphenylamine	169.0	9.003	9.003	0.000	99340	5.0000	4.6872	
87 Azobenzene	77.0	9.046	9.046	0.000	181775	5.0000	4.6850	
$ 88 2,4,6-Tribromophenol	330.0	9.147	9.147	0.000	10789	5.0000	4.4266	
94 4-Bromophenylphenylether	248.0	9.329	9.329	0.000	31357	5.0000	4.8235	
96 Hexachlorobenzene	284.0	9.409	9.409	0.000	26787	5.0000	4.7279	
202 Octadecane	57.0	9.516	9.516	0.000	146042	5.0000	4.6363	
99 Pentachlorophenol	266.0	9.575	9.575	0.000	26792	10.000	8.8686	
* 102 Phenanthrene-d10	188.0	9.752	9.752	0.000	706574	20.000	20.000	
103 Phenanthrene	178.0	9.773	9.773	0.000	173479	5.0000	4.6744	
104 Anthracene	178.0	9.816	9.816	0.000	164890	5.0000	4.8104	
106 Carbazole	167.0	9.939	9.939	0.000	149302	5.0000	4.7211	
109 Di-n-butylphthalate	149.0	10.147	10.147	0.000	164587	5.0000	4.7000	
114 Fluoranthene	202.0	10.886	10.886	0.000	136491	5.0000	4.7077	
116 Pyrene	202.0	11.142	11.142	0.000	132923	5.0000	5.2820	

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 117 Terphenyl-d14	244.0	11.239	11.239	0.000	82917	5.0000	5.2756	
122 Butylbenzylphthalate	149.0	11.763	11.763	0.000	38387	5.0000	4.4430	
130 bis(2-Ethylhexyl)phthalate	149.0	12.495	12.495	0.000	43759	5.0000	4.1875	
127 Benzo(a)Anthracene	228.0	12.651	12.651	0.000	81259	5.0000	4.7708	
* 128 Chrysene-d12	240.0	12.667	12.667	0.000	268314	20.000	20.000	
129 Chrysene	228.0	12.709	12.709	0.000	82874	5.0000	4.8365	
131 Di-n-octylphthalate	149.0	13.490	13.490	0.000	68105	5.0000	3.9462	
132 Benzo(b)fluoranthene	252.0	14.314	14.314	0.000	62430	5.0000	4.4855	
134 Benzo(k)fluoranthene	252.0	14.357	14.357	0.000	69114	5.0000	4.4978	
135 Benzo(a)pyrene	252.0	14.870	14.870	0.000	55101	5.0000	4.7187	
* 136 Perylene-d12	264.0	14.967	14.967	0.000	236176	20.000	20.000	
138 Indeno(1,2,3-c,d)pyrene	276.0	17.154	17.154	0.000	71201	5.0000	4.4940	
139 Dibenzo(a,h)anthracene	278.0	17.170	17.170	0.000	59496	5.0000	4.4711	
140 Benzo(g,h,i)perylene	276.0	17.817	17.817	0.000	60655	5.0000	5.1233	

Compound Type Legend

$ - Surrogate

* - ISTD

QC Flag Legend

Processing Flags

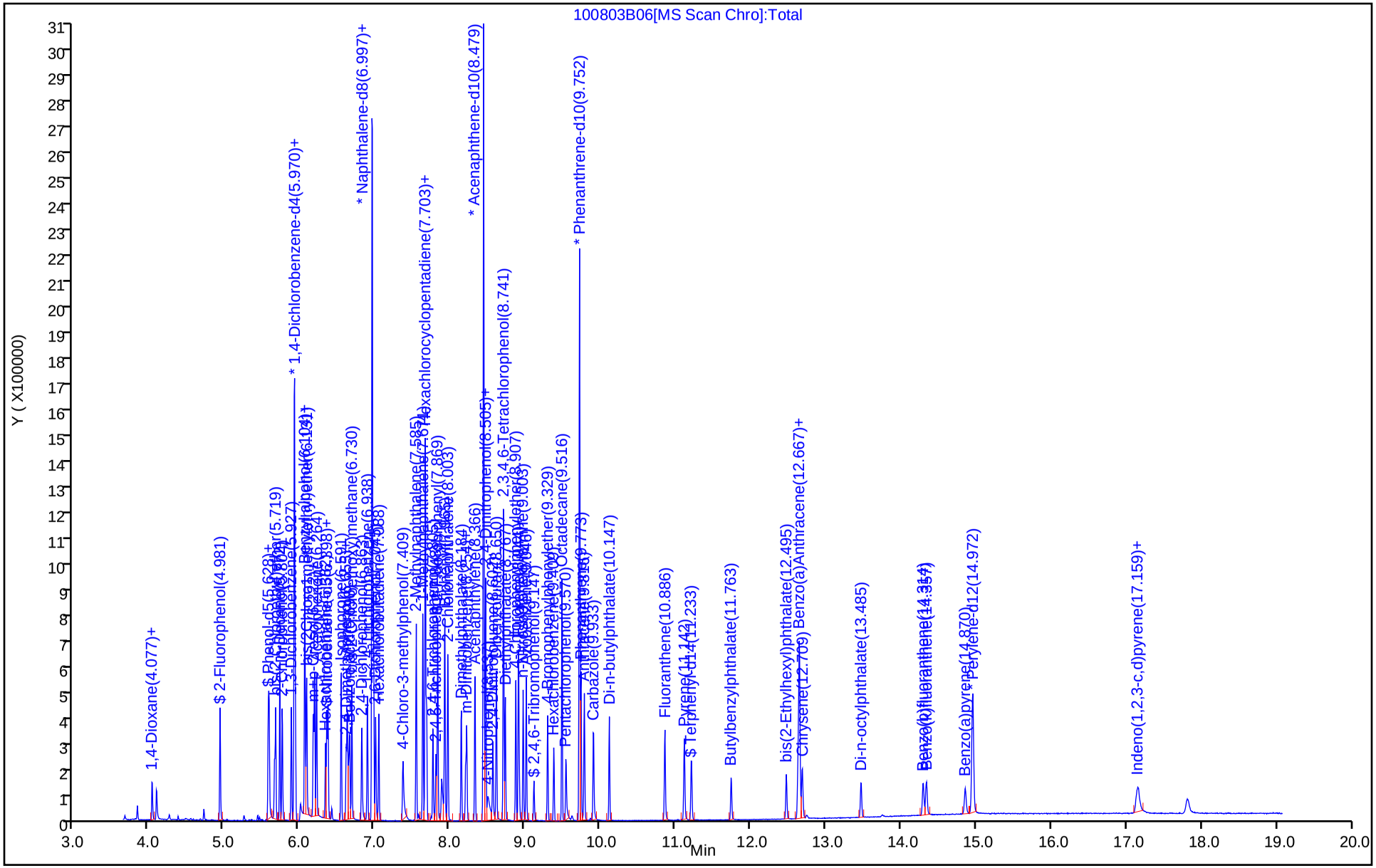
Review Flags

M - Compound Hit/Peak Manually Integrated

Report Date: 04-Aug-2023 08:45:36 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

Data File:	\\Organics\HH\chem\msd10.i\10080323B.b\100803B06.D				
Injection Date:	03-Aug-2023 16:12:30	Inst. ID:	msd10.i	Operator:	JCG
Client ID:	1STD005QB	Lab ID:	SVMS 6676		
Sample Info:	10080323B.b, SVMS 6676				
Injection Vol.	5.00	Dil. Factor:	1.0		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan		



Report Date: 04-Aug-2023 08:45:36 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

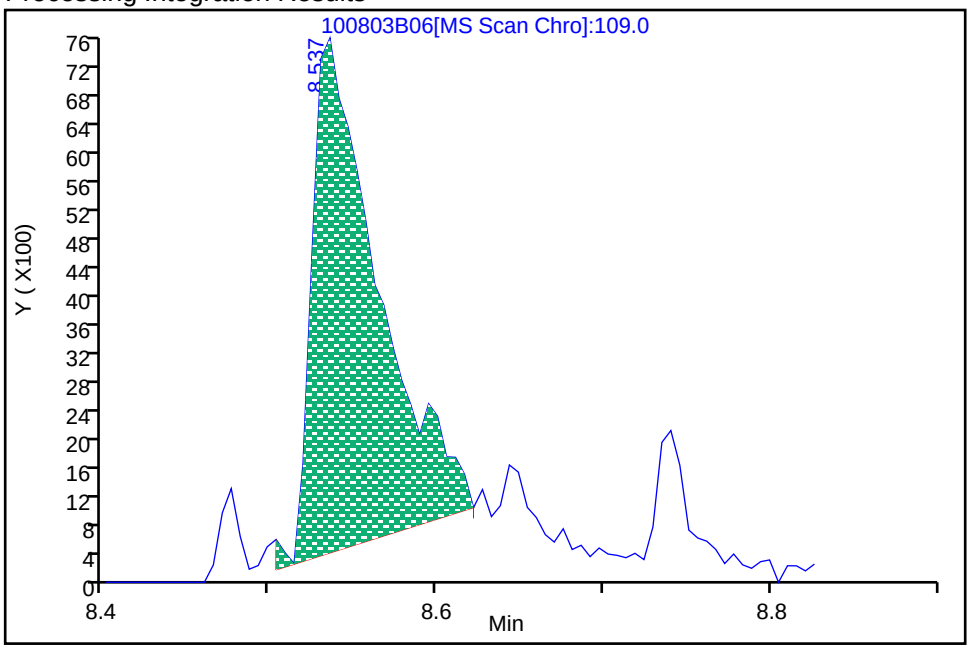
Manual Integration Report

Data File:	\\Organics\HH\chem\msd10.i\10080323B.b\100803B06.D		
Injection Date:	03-Aug-2023 16:12:30	Inst. ID:	msd10.i
Client ID:	1STD005QB	Lab ID:	SVMS 6676
Sample Info:	10080323B.b, SVMS 6676		
Injection Vol.	5.00	Dil. Factor:	1.0
Operator:	JCG		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan

70 4-Nitrophenol, CAS: 100-02-7

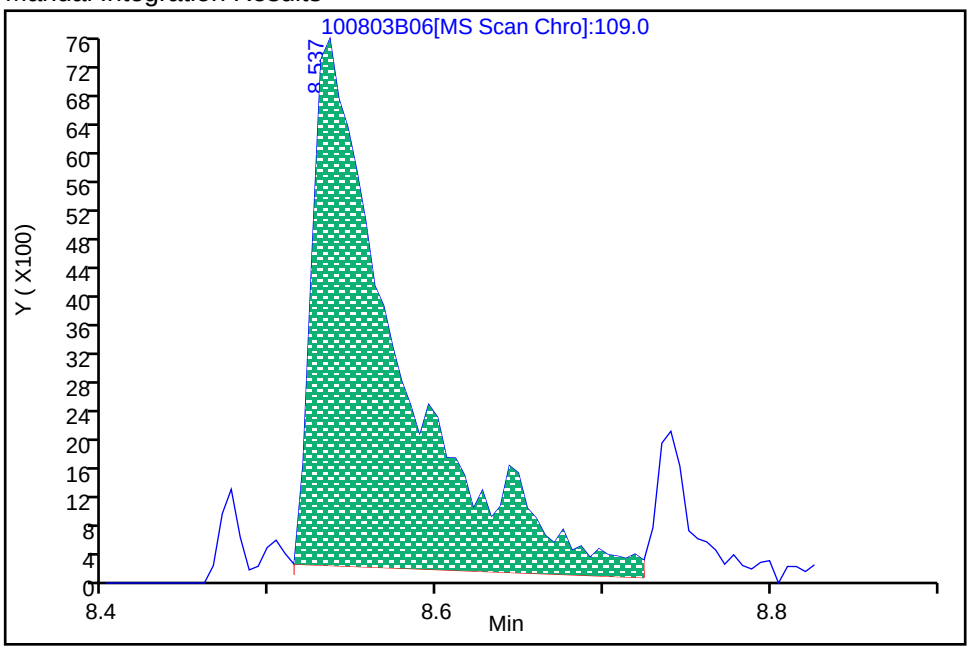
Processing Integration Results

RT: 8.537
Area: 19742
Amount: 0
Amount Units: ng
Conc:



Manual Integration Results

RT: 8.537
Area: 26298
Amount: 9.0464
Amount Units: ng



Data Editor: jcg, 03-Aug-2023 16:39:30
Audit Action: Mint
Audit Reason: M-01, Split Peak

Report Date: 04-Aug-2023 08:45:36 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

Resolution Report

Data File:	\\Organics\HH\chem\msd10.i\10080323B.b\100803B06.D		
Injection Date:	03-Aug-2023 16:12:30	Inst. ID:	msd10.i
Client ID:	1STD005QB	Lab ID:	SVMS 6676
Sample Info:	10080323B.b, SVMS 6676		
Injection Vol.	5.00	Dil. Factor:	1.0
Operator:	JCG		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan

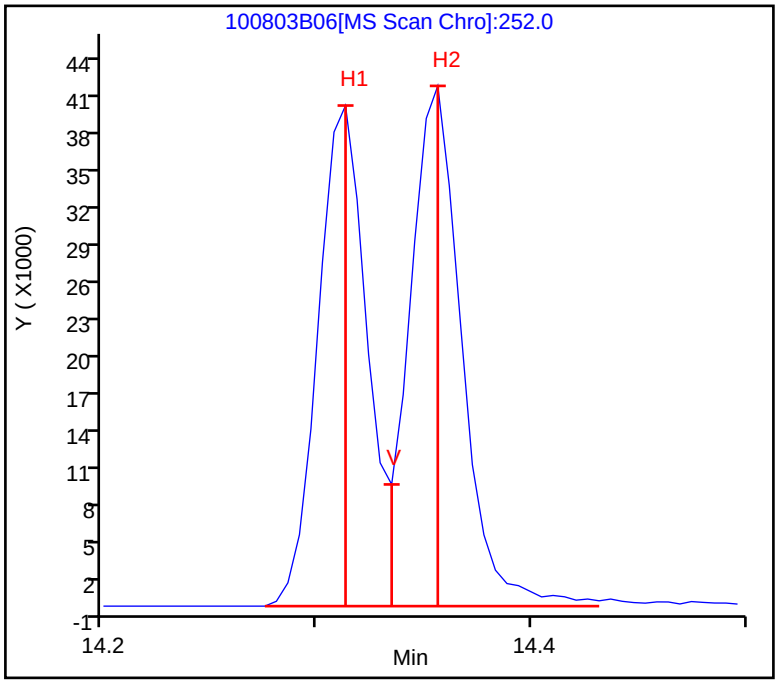
132 Benzo(b)fluoranthene @ 14.314 - 134 Benzo(k)fluoranthene @ 14.357

SW-846 Method
Version D

%Valley = (V / ((H1 + H2)/2)) * 100

V (Valley Height) = 9723
H1(132 Benzo(b)fluoranthen) = 39992
H2(134 Benzo(k)fluoranthen) = 41560

%Valley = 24 <= 50
Passed



Pace Environmental Services, LLC
Target Compound Quantitation Report

Data File: \\Organics\HH\chem\msd10.i\10080323B.b\100803B07.D
Lab Sample ID: SVMS 6677 Client Sample ID: 1STD010QB
Injection Date: 03-Aug-2023 16:37:30 Dil. Factor: 1.0
Operator: JCG Inst. ID: msd10.i
Sample Info: 10080323B.b, SVMS 6677
Misc. Info: 1STD010
Method: \\Organics\HH\chem\msd10.i\10080323B.b\8270DLVI-10.m
Method Date: 04-Aug-2023 08:45:30 Quant Method: ISTD
Calib Date: 03-Aug-2023 22:00:30 Calib File: 100803B20.D
Sample Type: Ical, Level: 5 ALS Bottle: 5
Cpnd Sublist: 1STD.sub
Matrix/Level: Soil/Low
Target 4.14 Integrator: falcon

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100)/Vi * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	5000.00	Volume of final extract (uL)(1000 low, 2000 med.
Ws	15.000	Weight of sample extracted (g)
M	0	% Moisture
Vi	5.0000	
Cpnd Variable		Local Cpnd Variable

Column1: ZebronZB-SV (0.25 mm) Detector: MS Scan
Data Reviewer: jcg Review Date: 04-Aug-2023 08:45:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
193 1,4-Dioxane	58.0	3.884	3.884	0.000	30234	10.000	11.904	
2 N-Nitrosodimethylamine	42.0	4.077	4.077	0.000	103759	10.000	9.7976	
1 pyridine	79.0	4.136	4.136	0.000	95378	10.000	12.188	
$ 6 2-Fluorophenol	112.0	4.981	4.981	0.000	203190	10.000	11.219	
$ 9 Phenol-d5	99.0	5.622	5.622	0.000	275904	10.000	11.442	
10 Phenol	94.0	5.633	5.633	0.000	269156	10.000	10.957	
11 Aniline	66.0	5.633	5.633	0.000	108985	10.000	11.215	
12 bis(2-Chloroethyl)ether	63.0	5.719	5.719	0.000	194904	10.000	11.197	
201 n-Decane	57.0	5.772	5.772	0.000	250598	10.000	12.010	
13 2-Chlorophenol	128.0	5.810	5.810	0.000	200707	10.000	11.203	
14 1,3-Dichlorobenzene	146.0	5.927	5.927	0.000	166896	10.000	9.6642	
* 16 1,4-Dichlorobenzene-d4	152.0	5.970	5.970	0.000	240714	20.000	20.000	
17 1,4-Dichlorobenzene	146.0	5.981	5.981	0.000	182461	10.000	9.6703	
18 Benzyl alcohol	79.0	6.045	6.045	0.000	78625	10.000	11.072	
20 o-Cresol	108.0	6.109	6.109	0.000	215235	10.000	11.491	
19 1,2-Dichlorobenzene	146.0	6.109	6.109	0.000	188858	10.000	10.456	
21 bis(2Chloro1methylethyl)ether	45.0	6.131	6.131	0.000	438981	10.000	10.701	
23 m+p-Cresol	107.0	6.222	6.222	0.000	212899	10.000	10.854	
26 n-Nitroso-di-n-propylamine	70.0	6.238	6.238	0.000	175659	10.000	11.088	
24 Acetophenone	105.0	6.264	6.264	0.000	281475	10.000	11.004	
28 Hexachloroethane	117.0	6.382	6.382	0.000	65308	10.000	9.6125	
$ 29 Nitrobenzene-d5	82.0	6.398	6.398	0.000	244145	10.000	10.690	

Report Date: 04-Aug-2023 08:45:37 AIM Revision: 1.0 07-Jul-2023 13:11:40
Data File: \\Organics\HH\chem\msd10.i\10080323B.b\100803B07.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
30 Nitrobenzene	77.0	6.414	6.414	0.000	225645	10.000	10.034	
32 Isophorone	82.0	6.591	6.591	0.000	410668	10.000	10.052	
34 2,4-Dimethylphenol	107.0	6.655	6.655	0.000	131113	10.000	10.180	
33 2-Nitrophenol	139.0	6.671	6.671	0.000	105752	10.000	10.262	
35 bis(2-Chloroethoxy)methane	93.0	6.730	6.730	0.000	266400	10.000	9.9393	
36 Benzoic acid	105.0	6.719	6.719	0.000	272541	20.000	19.861	
38 2,4-Dichlorophenol	162.0	6.863	6.863	0.000	141099	10.000	10.127	
45 2,6-Dichlorophenol	162.0	7.045	7.045	0.000	134282	10.000	10.016	
40 1,2,4-Trichlorobenzene	180.0	6.938	6.938	0.000	145157	10.000	9.8961	
* 41 Naphthalene-d8	136.0	7.002	7.002	0.000	1176369	20.000	20.000	
43 Naphthalene	128.0	7.018	7.018	0.000	639740	10.000	9.9204	
47 Hexachlorobutadiene	224.6	7.088	7.088	0.000	73375	10.000	9.996	
49 4-Chloro-3-methylphenol	107.0	7.409	7.409	0.000	155860	10.000	9.9499	
51 2-Methylnaphthalene	142.0	7.585	7.585	0.000	368312	10.000	9.9767	
204 1-Methylnaphthalene	142.0	7.671	7.671	0.000	361409	10.000	9.6751	
53 Hexachlorocyclopentadiene	237.0	7.708	7.708	0.000	419502	50.000	47.376	
52 1,2,4,5-Tetrachlorobenzene	216.0	7.724	7.724	0.000	135317	10.000	10.027	
54 2,4,6-Trichlorophenol	196.0	7.810	7.810	0.000	77601	10.000	10.372	
55 2,4,5-Trichlorophenol	196.0	7.848	7.848	0.000	83292	10.000	10.392	
$ 56 2-Fluorobiphenyl	172.0	7.869	7.869	0.000	371757	10.000	10.118	
184 Biphenyl	154.0	7.965	7.965	0.000	410405	10.000	9.9731	
58 2-Chloronaphthalene	162.0	8.008	8.008	0.000	303135	10.000	10.001	
63 m-Dinitrobenzene	168.0	8.243	8.243	0.000	46641	10.000	10.186	
62 Dimethylphthalate	163.0	8.184	8.184	0.000	279868	10.000	10.003	
65 2,6-Dinitrotoluene	165.0	8.254	8.254	0.000	68544	10.000	10.061	
64 Acenaphthylene	152.0	8.366	8.366	0.000	427482	10.000	10.366	
* 67 Acenaphthene-d10	164.0	8.479	8.479	0.000	543204	20.000	20.000	
69 2,4-Dinitrophenol	184.0	8.500	8.500	0.000	68103	20.000	18.726	
68 Acenaphthene	153.0	8.505	8.505	0.000	320700	10.000	9.8515	
70 4-Nitrophenol	109.0	8.527	8.527	0.000	51892	20.000	19.323	
73 2,4-Dinitrotoluene	165.0	8.602	8.602	0.000	76538	10.000	9.8891	
71 Dibenzofuran	168.0	8.650	8.650	0.000	381106	10.000	9.9264	
76 2,3,4,6-Tetrachlorophenol	232.0	8.741	8.741	0.000	56084	10.000	10.435	
78 Diethylphthalate	149.0	8.767	8.767	0.000	263134	10.000	10.102	
80 4-Chlorophenylphenylether	204.0	8.907	8.907	0.000	133536	10.000	9.9090	
79 Fluorene	166.0	8.944	8.944	0.000	314224	10.000	10.140	
84 4,6-Dinitro-2-methylphenol	198.0	8.955	8.955	0.000	36561	10.000	9.0542	
86 n-Nitrosodiphenylamine	169.0	9.003	9.003	0.000	191193	10.000	9.7791	
87 Azobenzene	77.0	9.046	9.046	0.000	354866	10.000	9.9145	
$ 88 2,4,6-Tribromophenol	330.0	9.147	9.147	0.000	21900	10.000	9.7402	
94 4-Bromophenylphenylether	248.0	9.329	9.329	0.000	60421	10.000	10.075	
96 Hexachlorobenzene	284.0	9.415	9.415	0.000	51681	10.000	9.8880	
202 Octadecane	57.0	9.516	9.516	0.000	287210	10.000	9.8838	
99 Pentachlorophenol	266.0	9.570	9.570	0.000	60273	20.000	18.817	
* 102 Phenanthrene-d10	188.0	9.752	9.752	0.000	651817	20.000	20.000	
103 Phenanthrene	178.0	9.773	9.773	0.000	334484	10.000	9.7697	
104 Anthracene	178.0	9.816	9.816	0.000	321325	10.000	10.162	
106 Carbazole	167.0	9.933	9.933	0.000	296000	10.000	10.146	
109 Di-n-butylphthalate	149.0	10.147	10.147	0.000	328140	10.000	10.158	
114 Fluoranthene	202.0	10.886	10.886	0.000	271566	10.000	10.153	
116 Pyrene	202.0	11.142	11.142	0.000	267506	10.000	10.402	

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 117 Terphenyl-d14	244.0	11.239	11.239	0.000	168682	10.000	10.503	
122 Butylbenzylphthalate	149.0	11.763	11.763	0.000	90623	10.000	9.4600	
130 bis(2-Ethylhexyl)phthalate	149.0	12.495	12.495	0.000	106594	10.000	8.9761	
127 Benzo(a)Anthracene	228.0	12.651	12.651	0.000	176594	10.000	10.146	
* 128 Chrysene-d12	240.0	12.667	12.667	0.000	274188	20.000	20.000	
129 Chrysene	228.0	12.709	12.709	0.000	172940	10.000	9.8765	
131 Di-n-octylphthalate	149.0	13.485	13.485	0.000	171629	10.000	8.8582	
132 Benzo(b)fluoranthene	252.0	14.314	14.314	0.000	144306	10.000	10.439	
134 Benzo(k)fluoranthene	252.0	14.357	14.357	0.000	153269	10.000	10.043	
135 Benzo(a)pyrene	252.0	14.870	14.870	0.000	121846	10.000	10.506	
* 136 Perylene-d12	264.0	14.972	14.972	0.000	234565	20.000	20.000	
138 Indeno(1,2,3-c,d)pyrene	276.0	17.149	17.149	0.000	155214	10.000	9.7079	
139 Dibenzo(a,h)anthracene	278.0	17.165	17.165	0.000	127725	10.000	9.4910	
140 Benzo(g,h,i)perylene	276.0	17.817	17.817	0.000	125915	10.000	10.709	

Compound Type Legend

$ - Surrogate

* - ISTD

QC Flag Legend

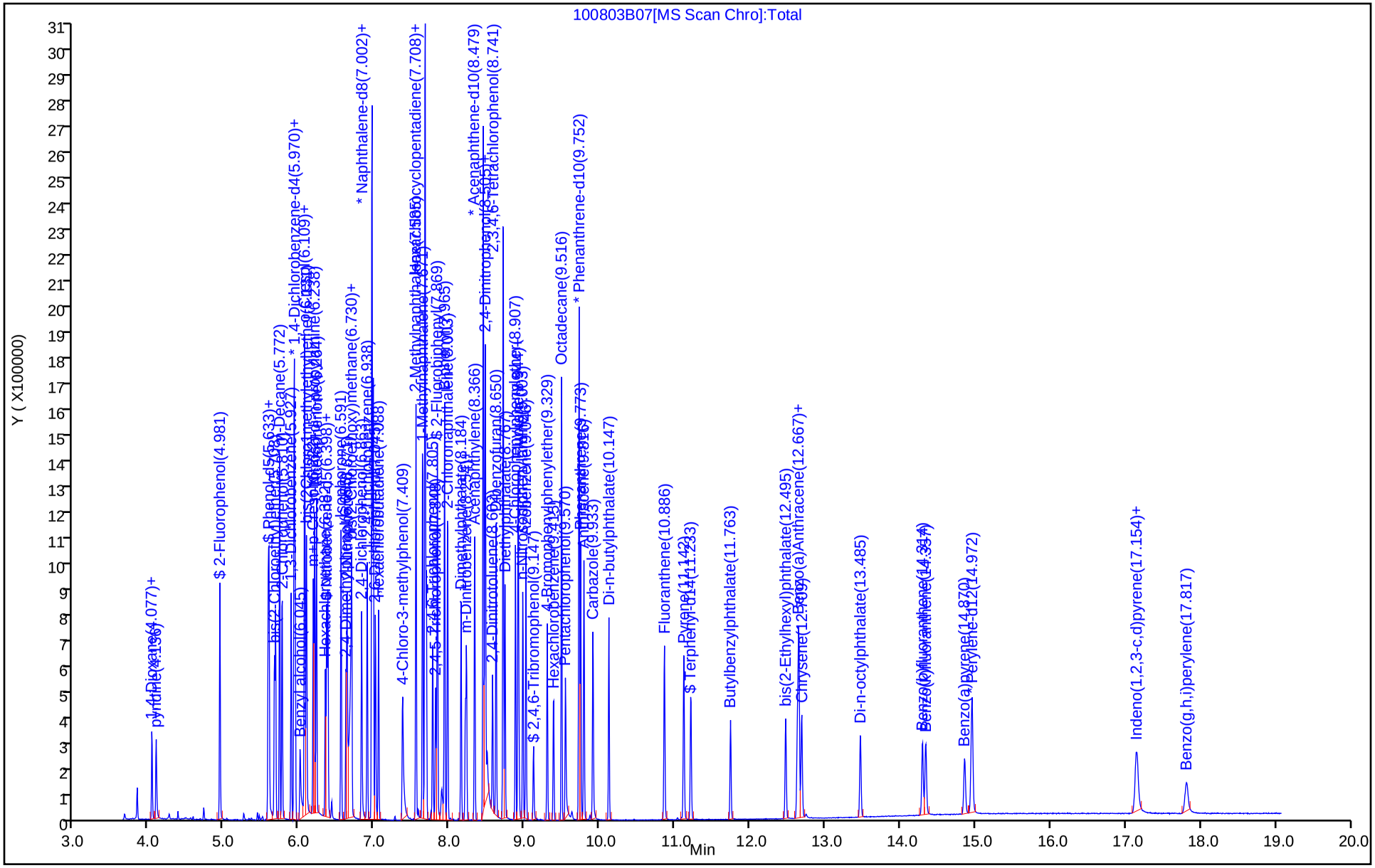
Processing Flags

Review Flags

Report Date: 04-Aug-2023 08:45:37 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

Data File:	\\Organics\HH\chem\msd10.i\10080323B.b\100803B07.D				
Injection Date:	03-Aug-2023 16:37:30	Inst. ID:	msd10.i	Operator:	JCG
Client ID:	1STD010QB	Lab ID:	SVMS 6677		
Sample Info:	10080323B.b, SVMS 6677				
Injection Vol.	5.00	Dil. Factor:	1.0		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan		



Report Date: 04-Aug-2023 08:45:37 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

Resolution Report

Data File:	\\Organics\HH\chem\msd10.i\10080323B.b\100803B07.D		
Injection Date:	03-Aug-2023 16:37:30	Inst. ID:	msd10.i
Client ID:	1STD010QB	Lab ID:	SVMS 6677
Sample Info:	10080323B.b, SVMS 6677		
Injection Vol.	5.00	Dil. Factor:	1.0
Operator:	JCG		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan

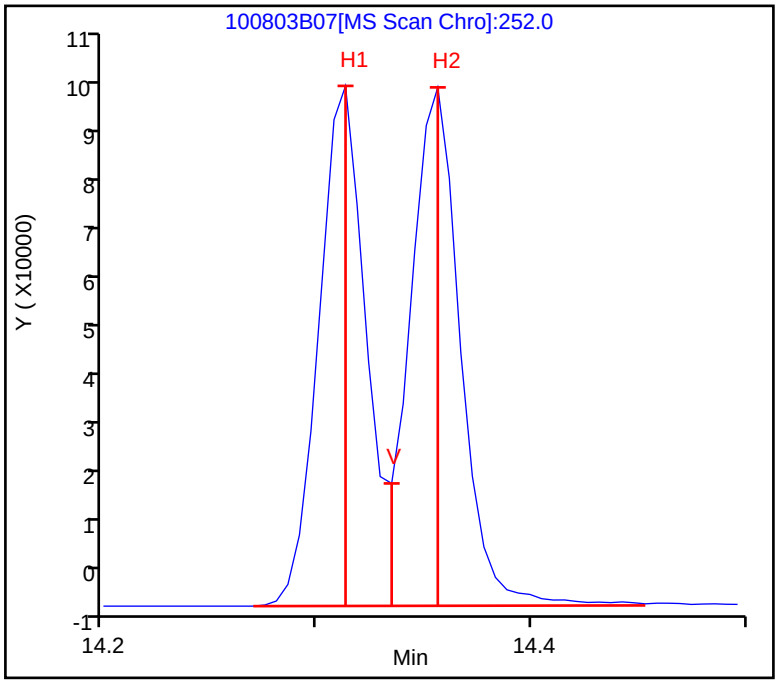
132 Benzo(b)fluoranthene @ 14.314 - 134 Benzo(k)fluoranthene @ 14.357

SW-846 Method
Version D

%Valley = (V / ((H1 + H2)/2)) * 100

V (Valley Height) = 22562
H1(132 Benzo(b)fluoranthen) = 95810
H2(134 Benzo(k)fluoranthen) = 95507

%Valley = 24 <= 50
Passed



Pace Environmental Services, LLC
Target Compound Quantitation Report

Data File: \\Organics\HH\chem\msd10.i\10080323B.b\100803B08.D
Lab Sample ID: SVMS 6678 Client Sample ID: 1STD015QB
Injection Date: 03-Aug-2023 17:02:30 Dil. Factor: 1.0
Operator: JCG Inst. ID: msd10.i
Sample Info: 10080323B.b, SVMS 6678
Misc. Info: 1STD015
Method: \\Organics\HH\chem\msd10.i\10080323B.b\8270DLVI-10.m
Method Date: 04-Aug-2023 08:45:30 Quant Method: ISTD
Calib Date: 03-Aug-2023 22:00:30 Calib File: 100803B20.D
Sample Type: Ical, Level: 6 ALS Bottle: 6
Cpnd Sublist: 1STD.sub
Matrix/Level: Soil/Low
Target 4.14 Integrator: falcon

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100)/Vi * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	5000.00	Volume of final extract (uL)(1000 low, 2000 med.
Ws	15.000	Weight of sample extracted (g)
M	0	% Moisture
Vi	5.0000	
Cpnd Variable		Local Cpnd Variable

Column1: ZebronZB-SV (0.25 mm) Detector: MS Scan
Data Reviewer: jcg Review Date: 04-Aug-2023 08:45:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
193 1,4-Dioxane	58.0	3.879	3.879	0.000	40650	15.000	16.420	
2 N-Nitrosodimethylamine	42.0	4.077	4.077	0.000	149875	15.000	14.520	
1 pyridine	79.0	4.136	4.136	0.000	133024	15.000	17.439	
$ 6 2-Fluorophenol	112.0	4.981	4.981	0.000	283723	15.000	16.072	
$ 9 Phenol-d5	99.0	5.623	5.623	0.000	380184	15.000	16.176	
10 Phenol	94.0	5.633	5.633	0.000	388361	15.000	16.220	
11 Aniline	66.0	5.633	5.633	0.000	153455	15.000	16.202	
12 bis(2-Chloroethyl)ether	63.0	5.719	5.719	0.000	265040	15.000	15.622	
201 n-Decane	57.0	5.772	5.772	0.000	322705	15.000	15.867	
13 2-Chlorophenol	128.0	5.810	5.810	0.000	278968	15.000	15.976	
14 1,3-Dichlorobenzene	146.0	5.927	5.927	0.000	255298	15.000	15.167	
* 16 1,4-Dichlorobenzene-d4	152.0	5.970	5.970	0.000	234624	20.000	20.000	
17 1,4-Dichlorobenzene	146.0	5.981	5.981	0.000	284397	15.000	15.464	
18 Benzyl alcohol	79.0	6.045	6.045	0.000	113507	15.000	16.400	
20 o-Cresol	108.0	6.109	6.109	0.000	299597	15.000	16.411	
19 1,2-Dichlorobenzene	146.0	6.109	6.109	0.000	284156	15.000	16.141	
21 bis(2Chloro1methylethyl)ether	45.0	6.131	6.131	0.000	607064	15.000	15.183	
23 m+p-Cresol	107.0	6.222	6.222	0.000	313281	15.000	16.386	
26 n-Nitroso-di-n-propylamine	70.0	6.238	6.238	0.000	239434	15.000	15.506	
24 Acetophenone	105.0	6.264	6.264	0.000	388360	15.000	15.576	
28 Hexachloroethane	117.0	6.382	6.382	0.000	104637	15.000	15.801	
$ 29 Nitrobenzene-d5	82.0	6.403	6.403	0.000	343777	15.000	17.171	

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
30 Nitrobenzene	77.0	6.419	6.419	0.000	318501	15.000	16.157	
32 Isophorone	82.0	6.591	6.591	0.000	552176	15.000	15.419	
34 2,4-Dimethylphenol	107.0	6.655	6.655	0.000	169648	15.000	15.027	
33 2-Nitrophenol	139.0	6.671	6.671	0.000	144219	15.000	15.965	
35 bis(2-Chloroethoxy)methane	93.0	6.730	6.730	0.000	367008	15.000	15.621	
36 Benzoic acid	105.0	6.730	6.730	0.000	393297	30.000	32.696	
38 2,4-Dichlorophenol	162.0	6.863	6.863	0.000	188250	15.000	15.414	
45 2,6-Dichlorophenol	162.0	7.045	7.045	0.000	181755	15.000	15.465	
40 1,2,4-Trichlorobenzene	180.0	6.938	6.938	0.000	197364	15.000	15.350	
* 41 Naphthalene-d8	136.0	7.002	7.002	0.000	1031175	20.000	20.000	
43 Naphthalene	128.0	7.018	7.018	0.000	876340	15.000	15.503	
47 Hexachlorobutadiene	224.6	7.088	7.088	0.000	98800	15.000	15.354	
49 4-Chloro-3-methylphenol	107.0	7.409	7.409	0.000	208666	15.000	15.197	
51 2-Methylnaphthalene	142.0	7.585	7.585	0.000	490858	15.000	15.168	
204 1-Methylnaphthalene	142.0	7.676	7.676	0.000	487432	15.000	14.886	
53 Hexachlorocyclopentadiene	237.0	7.708	7.708	0.000	596446	75.000	78.386	
52 1,2,4,5-Tetrachlorobenzene	216.0	7.725	7.725	0.000	182194	15.000	16.189	
54 2,4,6-Trichlorophenol	196.0	7.810	7.810	0.000	102365	15.000	16.406	
55 2,4,5-Trichlorophenol	196.0	7.848	7.848	0.000	106750	15.000	15.972	
$ 56 2-Fluorobiphenyl	172.0	7.869	7.869	0.000	489032	15.000	15.961	
184 Biphenyl	154.0	7.965	7.965	0.000	537097	15.000	15.651	
58 2-Chloronaphthalene	162.0	8.008	8.008	0.000	396088	15.000	15.670	
63 m-Dinitrobenzene	168.0	8.243	8.243	0.000	62395	15.000	16.339	
62 Dimethylphthalate	163.0	8.185	8.185	0.000	359976	15.000	15.428	
65 2,6-Dinitrotoluene	165.0	8.259	8.259	0.000	88343	15.000	15.549	
64 Acenaphthylene	152.0	8.366	8.366	0.000	555410	15.000	16.151	
* 67 Acenaphthene-d10	164.0	8.479	8.479	0.000	452994	20.000	20.000	
69 2,4-Dinitrophenol	184.0	8.500	8.500	0.000	95911	30.000	29.690	
68 Acenaphthene	153.0	8.505	8.505	0.000	422363	15.000	15.558	
70 4-Nitrophenol	109.0	8.532	8.532	0.000	71978	30.000	32.140	
73 2,4-Dinitrotoluene	165.0	8.602	8.602	0.000	102064	15.000	15.813	
71 Dibenzofuran	168.0	8.650	8.650	0.000	496865	15.000	15.519	
76 2,3,4,6-Tetrachlorophenol	232.0	8.741	8.741	0.000	70503	15.000	15.730	
78 Diethylphthalate	149.0	8.768	8.768	0.000	333925	15.000	15.373	
80 4-Chlorophenylphenylether	204.0	8.907	8.907	0.000	175755	15.000	15.639	
79 Fluorene	166.0	8.944	8.944	0.000	404256	15.000	15.642	
84 4,6-Dinitro-2-methylphenol	198.0	8.955	8.955	0.000	51379	15.000	15.842	
86 n-Nitrosodiphenylamine	169.0	9.003	9.003	0.000	252951	15.000	16.109	
87 Azobenzene	77.0	9.046	9.046	0.000	451778	15.000	15.716	
$ 88 2,4,6-Tribromophenol	330.0	9.147	9.147	0.000	28920	15.000	16.015	
94 4-Bromophenylphenylether	248.0	9.329	9.329	0.000	76303	15.000	15.842	
96 Hexachlorobenzene	284.0	9.415	9.415	0.000	67673	15.000	16.121	
202 Octadecane	57.0	9.522	9.522	0.000	362170	15.000	15.518	
99 Pentachlorophenol	266.0	9.575	9.575	0.000	81697	30.000	30.414	
* 102 Phenanthrene-d10	188.0	9.752	9.752	0.000	523510	20.000	20.000	
103 Phenanthrene	178.0	9.773	9.773	0.000	423723	15.000	15.410	
104 Anthracene	178.0	9.816	9.816	0.000	405892	15.000	15.982	
106 Carbazole	167.0	9.939	9.939	0.000	387365	15.000	16.532	
109 Di-n-butylphthalate	149.0	10.147	10.147	0.000	437183	15.000	16.850	
114 Fluoranthene	202.0	10.886	10.886	0.000	360041	15.000	16.760	
116 Pyrene	202.0	11.142	11.142	0.000	359644	15.000	14.486	

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 117 Terphenyl-d14	244.0	11.239	11.239	0.000	230951	15.000	14.895	
122 Butylbenzylphthalate	149.0	11.763	11.763	0.000	138251	15.000	14.593	
130 bis(2-Ethylhexyl)phthalate	149.0	12.496	12.496	0.000	176708	15.000	14.892	
127 Benzo(a)Anthracene	228.0	12.651	12.651	0.000	258223	15.000	15.367	
* 128 Chrysene-d12	240.0	12.672	12.672	0.000	264702	20.000	20.000	
129 Chrysene	228.0	12.709	12.709	0.000	253618	15.000	15.003	
131 Di-n-octylphthalate	149.0	13.490	13.490	0.000	300211	15.000	15.133	
132 Benzo(b)fluoranthene	252.0	14.314	14.314	0.000	222847	15.000	16.350	
134 Benzo(k)fluoranthene	252.0	14.357	14.357	0.000	241297	15.000	16.035	
135 Benzo(a)pyrene	252.0	14.876	14.876	0.000	184530	15.000	16.137	
* 136 Perylene-d12	264.0	14.972	14.972	0.000	231285	20.000	20.000	
138 Indeno(1,2,3-c,d)pyrene	276.0	17.154	17.154	0.000	242307	15.000	15.294	
139 Dibenzo(a,h)anthracene	278.0	17.165	17.165	0.000	204323	15.000	15.305	
140 Benzo(g,h,i)perylene	276.0	17.823	17.823	0.000	192201	15.000	16.578	

Compound Type Legend

$ - Surrogate

* - ISTD

QC Flag Legend

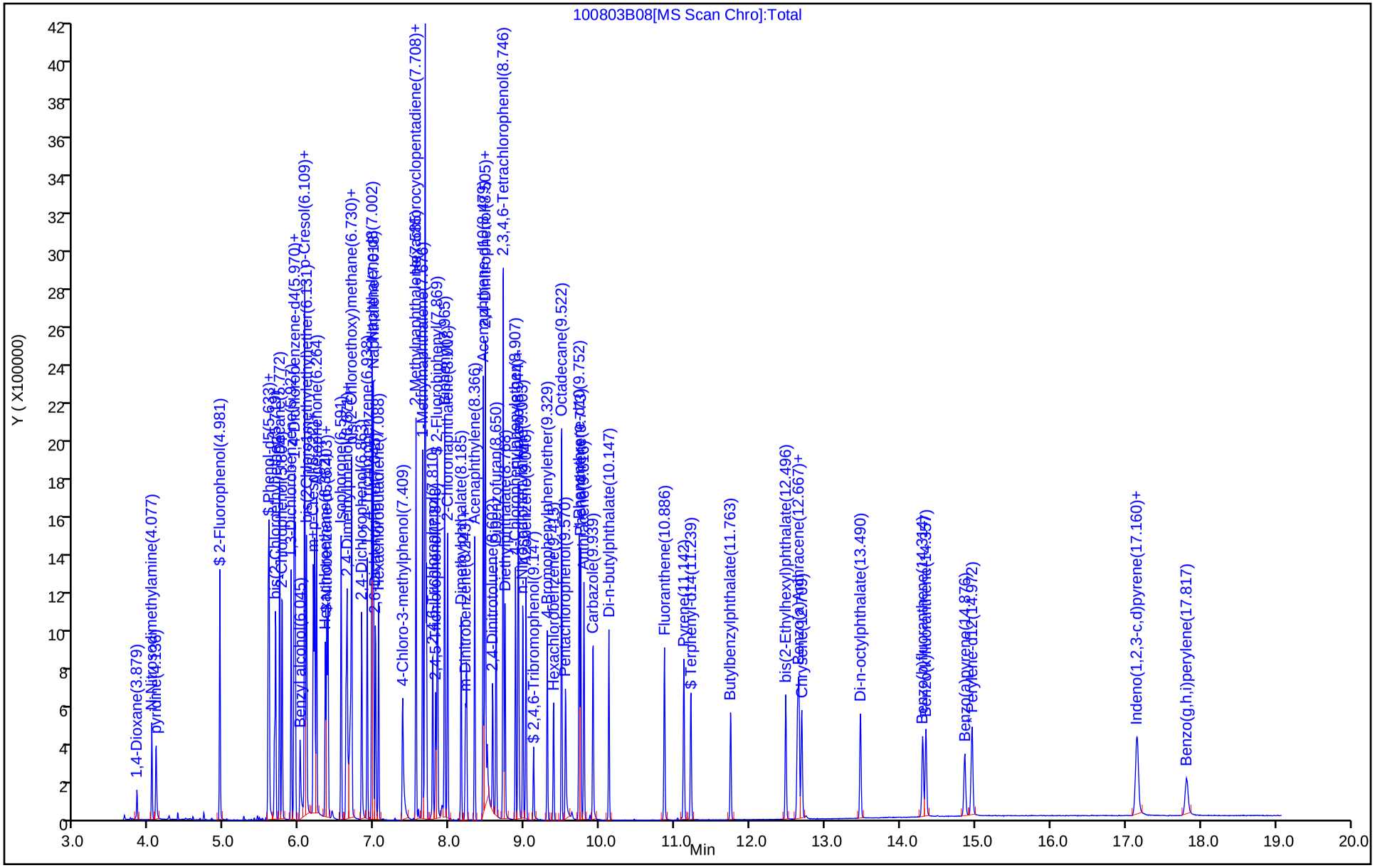
Processing Flags

Review Flags

Report Date: 04-Aug-2023 08:45:37 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

Data File:	\\Organics\HH\chem\msd10.i\10080323B.b\100803B08.D				
Injection Date:	03-Aug-2023 17:02:30	Inst. ID:	msd10.i	Operator:	JCG
Client ID:	1STD015QB	Lab ID:	SVMS 6678		
Sample Info:	10080323B.b, SVMS 6678				
Injection Vol.	5.00	Dil. Factor:	1.0		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan		



Report Date: 04-Aug-2023 08:45:37 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

Resolution Report

Data File:	\\Organics\HH\chem\msd10.i\10080323B.b\100803B08.D		
Injection Date:	03-Aug-2023 17:02:30	Inst. ID:	msd10.i
Client ID:	1STD015QB	Lab ID:	SVMS 6678
Sample Info:	10080323B.b, SVMS 6678		
Injection Vol.	5.00	Dil. Factor:	1.0
Operator:	JCG		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan

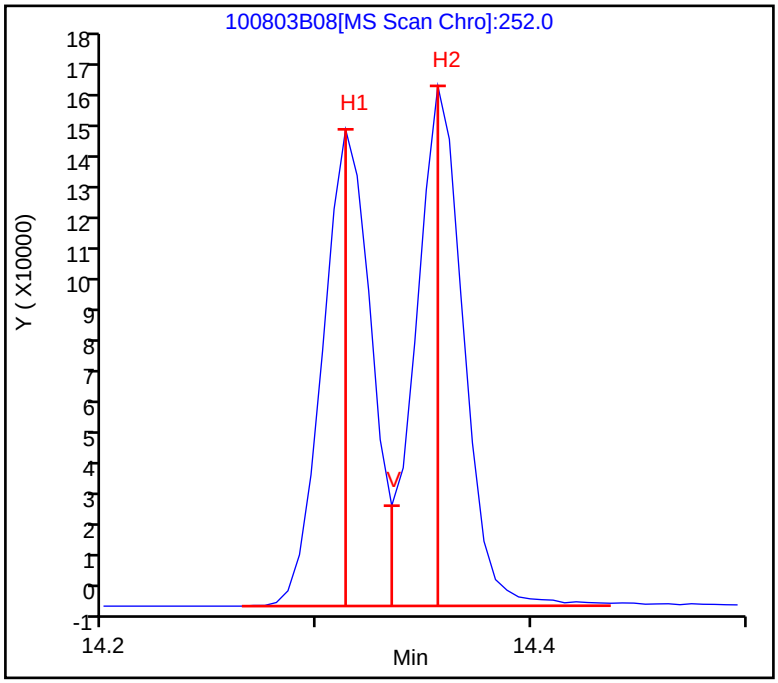
132 Benzo(b)fluoranthene @ 14.314 - 134 Benzo(k)fluoranthene @ 14.357

SW-846 Method
Version D

%Valley = (V / ((H1 + H2)/2)) * 100

V (Valley Height) = 30444
H1(132 Benzo(b)fluoranthen) = 144732
H2(134 Benzo(k)fluoranthen) = 157883

%Valley = 20 <= 50
Passed



Pace Environmental Services, LLC
Target Compound Quantitation Report

Data File: \\Organics\HH\chem\msd10.i\10080323B.b\100803B09.D
Lab Sample ID: SVMS 6679 Client Sample ID: 1STD020QB
Injection Date: 03-Aug-2023 17:27:30 Dil. Factor: 1.0
Operator: JCG Inst. ID: msd10.i
Sample Info: 10080323B.b, SVMS 6679
Misc. Info: 1STD020
Method: \\Organics\HH\chem\msd10.i\10080323B.b\8270DLVI-10.m
Method Date: 04-Aug-2023 08:45:30 Quant Method: ISTD
Calib Date: 03-Aug-2023 22:00:30 Calib File: 100803B20.D
Sample Type: Ical, Level: 7 ALS Bottle: 7
Cpnd Sublist: 1STD.sub
Matrix/Level: Soil/Low
Target 4.14 Integrator: falcon

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100)/Vi * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	5000.00	Volume of final extract (uL)(1000 low, 2000 med.
Ws	15.000	Weight of sample extracted (g)
M	0	% Moisture
Vi	5.0000	
Cpnd Variable		Local Cpnd Variable

Column1: ZebronZB-SV (0.25 mm) Detector: MS Scan
Data Reviewer: jcg Review Date: 04-Aug-2023 08:45:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
193 1,4-Dioxane	58.0	3.884	3.884	0.000	60572	20.000	21.859	
2 N-Nitrosodimethylamine	42.0	4.082	4.082	0.000	221338	20.000	19.156	
1 pyridine	79.0	4.141	4.141	0.000	181872	20.000	21.301	
$ 6 2-Fluorophenol	112.0	4.981	4.981	0.000	404680	20.000	20.480	
$ 9 Phenol-d5	99.0	5.628	5.628	0.000	547224	20.000	20.800	
10 Phenol	94.0	5.638	5.638	0.000	570184	20.000	21.275	
11 Aniline	66.0	5.638	5.638	0.000	222481	20.000	20.985	
12 bis(2-Chloroethyl)ether	63.0	5.724	5.724	0.000	368783	20.000	19.419	
201 n-Decane	57.0	5.778	5.778	0.000	531327	20.000	23.340	
13 2-Chlorophenol	128.0	5.810	5.810	0.000	397155	20.000	20.319	
14 1,3-Dichlorobenzene	146.0	5.933	5.933	0.000	392686	20.000	20.842	
* 16 1,4-Dichlorobenzene-d4	152.0	5.970	5.970	0.000	262625	20.000	20.000	
17 1,4-Dichlorobenzene	146.0	5.981	5.981	0.000	423705	20.000	20.582	
18 Benzyl alcohol	79.0	6.050	6.050	0.000	177274	20.000	22.882	
20 o-Cresol	108.0	6.109	6.109	0.000	433843	20.000	21.230	
19 1,2-Dichlorobenzene	146.0	6.109	6.109	0.000	411352	20.000	20.875	
21 bis(2Chloro1methylethyl)ether	45.0	6.131	6.131	0.000	857032	20.000	19.150	
23 m+p-Cresol	107.0	6.227	6.227	0.000	438167	20.000	20.475	
26 n-Nitroso-di-n-propylamine	70.0	6.243	6.243	0.000	350615	20.000	20.285	
24 Acetophenone	105.0	6.270	6.270	0.000	559354	20.000	20.042	
28 Hexachloroethane	117.0	6.382	6.382	0.000	154291	20.000	20.815	
$ 29 Nitrobenzene-d5	82.0	6.403	6.403	0.000	463257	20.000	22.136	

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
30 Nitrobenzene	77.0	6.419	6.419	0.000	453681	20.000	22.017	
32 Isophorone	82.0	6.596	6.596	0.000	802769	20.000	21.445	
34 2,4-Dimethylphenol	107.0	6.660	6.660	0.000	238673	20.000	20.224	
33 2-Nitrophenol	139.0	6.671	6.671	0.000	209774	20.000	22.215	
35 bis(2-Chloroethoxy)methane	93.0	6.735	6.735	0.000	528133	20.000	21.504	
36 Benzoic acid	105.0	6.746	6.746	0.000	597580	40.000	47.525	
38 2,4-Dichlorophenol	162.0	6.869	6.869	0.000	276595	20.000	21.665	
45 2,6-Dichlorophenol	162.0	7.050	7.050	0.000	264126	20.000	21.500	
40 1,2,4-Trichlorobenzene	180.0	6.938	6.938	0.000	284402	20.000	21.160	
* 41 Naphthalene-d8	136.0	7.002	7.002	0.000	1077908	20.000	20.000	
43 Naphthalene	128.0	7.024	7.024	0.000	1230939	20.000	20.832	
47 Hexachlorobutadiene	224.6	7.088	7.088	0.000	141120	20.000	20.980	
49 4-Chloro-3-methylphenol	107.0	7.409	7.409	0.000	304620	20.000	21.223	
51 2-Methylnaphthalene	142.0	7.585	7.585	0.000	713865	20.000	21.103	
204 1-Methylnaphthalene	142.0	7.676	7.676	0.000	701250	20.000	20.488	
53 Hexachlorocyclopentadiene	237.0	7.708	7.708	0.000	840179	100.00	101.06	
52 1,2,4,5-Tetrachlorobenzene	216.0	7.724	7.724	0.000	263690	20.000	21.662	
54 2,4,6-Trichlorophenol	196.0	7.810	7.810	0.000	148134	20.000	21.950	
55 2,4,5-Trichlorophenol	196.0	7.847	7.847	0.000	160563	20.000	22.210	
$ 56 2-Fluorobiphenyl	172.0	7.874	7.874	0.000	721862	20.000	21.782	
184 Biphenyl	154.0	7.965	7.965	0.000	787377	20.000	21.213	
58 2-Chloronaphthalene	162.0	8.008	8.008	0.000	570890	20.000	20.881	
63 m-Dinitrobenzene	168.0	8.243	8.243	0.000	92329	20.000	22.354	
62 Dimethylphthalate	163.0	8.190	8.190	0.000	533912	20.000	21.156	
65 2,6-Dinitrotoluene	165.0	8.259	8.259	0.000	128144	20.000	20.852	
64 Acenaphthylene	152.0	8.366	8.366	0.000	807357	20.000	21.705	
* 67 Acenaphthene-d10	164.0	8.479	8.479	0.000	489972	20.000	20.000	
69 2,4-Dinitrophenol	184.0	8.505	8.505	0.000	147764	40.000	41.097	
68 Acenaphthene	153.0	8.511	8.511	0.000	622801	20.000	21.210	
70 4-Nitrophenol	109.0	8.532	8.532	0.000	106557	40.000	43.989	
73 2,4-Dinitrotoluene	165.0	8.607	8.607	0.000	150566	20.000	21.568	
71 Dibenzofuran	168.0	8.650	8.650	0.000	729206	20.000	21.057	
76 2,3,4,6-Tetrachlorophenol	232.0	8.741	8.741	0.000	110779	20.000	22.851	
78 Diethylphthalate	149.0	8.773	8.773	0.000	494529	20.000	21.049	
80 4-Chlorophenylphenylether	204.0	8.912	8.912	0.000	258107	20.000	21.234	
79 Fluorene	166.0	8.944	8.944	0.000	586850	20.000	20.994	
84 4,6-Dinitro-2-methylphenol	198.0	8.955	8.955	0.000	75014	20.000	21.865	
86 n-Nitrosodiphenylamine	169.0	9.008	9.008	0.000	371063	20.000	22.338	
87 Azobenzene	77.0	9.046	9.046	0.000	679765	20.000	22.353	
$ 88 2,4,6-Tribromophenol	330.0	9.147	9.147	0.000	42353	20.000	22.170	
94 4-Bromophenylphenylether	248.0	9.329	9.329	0.000	109241	20.000	21.439	
96 Hexachlorobenzene	284.0	9.415	9.415	0.000	94955	20.000	21.383	
202 Octadecane	57.0	9.522	9.522	0.000	549622	20.000	22.261	
99 Pentachlorophenol	266.0	9.575	9.575	0.000	121994	40.000	42.126	
* 102 Phenanthrene-d10	188.0	9.752	9.752	0.000	553809	20.000	20.000	
103 Phenanthrene	178.0	9.773	9.773	0.000	610548	20.000	20.989	
104 Anthracene	178.0	9.816	9.816	0.000	579064	20.000	21.553	
106 Carbazole	167.0	9.939	9.939	0.000	535973	20.000	21.623	
109 Di-n-butylphthalate	149.0	10.147	10.147	0.000	618898	20.000	22.549	
114 Fluoranthene	202.0	10.885	10.885	0.000	484481	20.000	21.319	
116 Pyrene	202.0	11.142	11.142	0.000	476453	20.000	20.987	

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 117 Terphenyl-d14	244.0	11.238	11.238	0.000	302179	20.000	21.312	
122 Butylbenzylphthalate	149.0	11.763	11.763	0.000	179198	20.000	20.429	
130 bis(2-Ethylhexyl)phthalate	149.0	12.495	12.495	0.000	222729	20.000	20.252	
127 Benzo(a)Anthracene	228.0	12.656	12.656	0.000	319996	20.000	20.826	
* 128 Chrysene-d12	240.0	12.672	12.672	0.000	242051	20.000	20.000	
129 Chrysene	228.0	12.709	12.709	0.000	312487	20.000	20.215	
131 Di-n-octylphthalate	149.0	13.490	13.490	0.000	373475	20.000	20.065	
132 Benzo(b)fluoranthene	252.0	14.319	14.319	0.000	274563	20.000	21.745	
134 Benzo(k)fluoranthene	252.0	14.362	14.362	0.000	306206	20.000	21.966	
135 Benzo(a)pyrene	252.0	14.876	14.876	0.000	236310	20.000	22.307	
* 136 Perylene-d12	264.0	14.972	14.972	0.000	214255	20.000	20.000	
138 Indeno(1,2,3-c,d)pyrene	276.0	17.159	17.159	0.000	305061	20.000	20.738	
139 Dibenzo(a,h)anthracene	278.0	17.170	17.170	0.000	255019	20.000	20.569	
140 Benzo(g,h,i)perylene	276.0	17.823	17.823	0.000	240748	20.000	22.415	

Compound Type Legend

$ - Surrogate

* - ISTD

QC Flag Legend

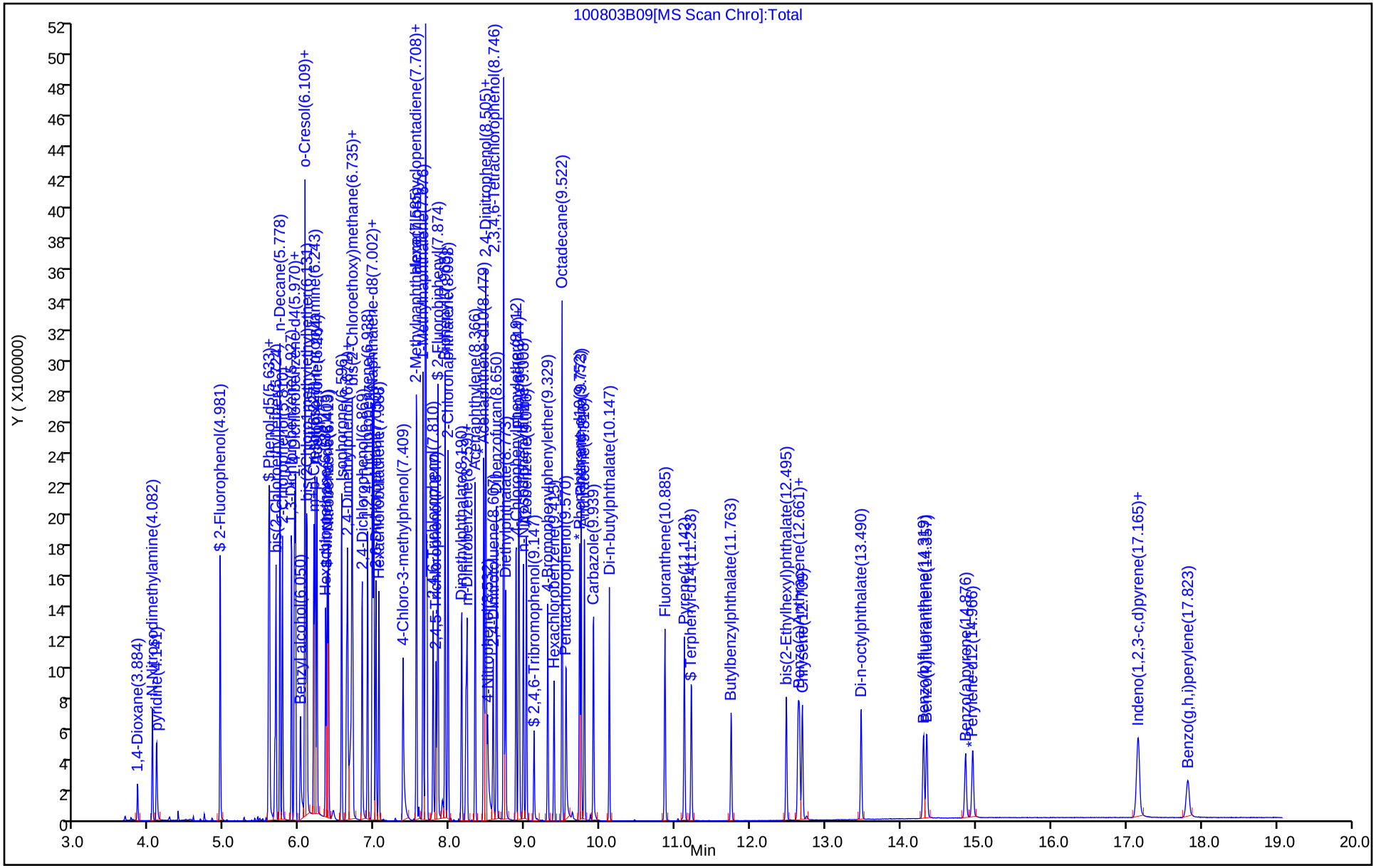
Processing Flags

Review Flags

Report Date: 04-Aug-2023 08:45:38 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

Data File:	\\Organics\HH\chem\msd10.i\10080323B.b\100803B09.D				
Injection Date:	03-Aug-2023 17:27:30	Inst. ID:	msd10.i	Operator:	JCG
Client ID:	1STD020QB	Lab ID:	SVMS 6679		
Sample Info:	10080323B.b, SVMS 6679				
Injection Vol.	5.00	Dil. Factor:	1.0		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan		



Report Date: 04-Aug-2023 08:45:38 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

Resolution Report

Data File:	\\Organics\HH\chem\msd10.i\10080323B.b\100803B09.D		
Injection Date:	03-Aug-2023 17:27:30	Inst. ID:	msd10.i
Client ID:	1STD020QB	Lab ID:	SVMS 6679
Sample Info:	10080323B.b, SVMS 6679		
Injection Vol.	5.00	Dil. Factor:	1.0
Operator:	JCG		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan

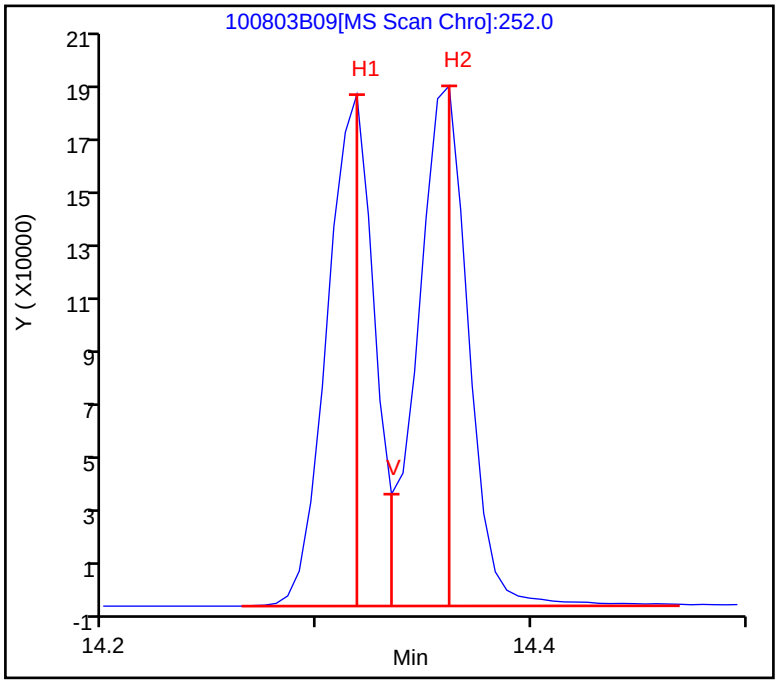
132 Benzo(b)fluoranthene @ 14.319 - 134 Benzo(k)fluoranthene @ 14.362

SW-846 Method
Version D

%Valley = (V / ((H1 + H2)/2)) * 100

V (Valley Height) = 40222
H1(132 Benzo(b)fluoranthen) = 183904
H2(134 Benzo(k)fluoranthen) = 187014

%Valley = 22 <= 50
Passed



Pace Environmental Services, LLC
Target Compound Quantitation Report

Data File: \\Organics\HH\chem\msd10.i\10080323B.b\100803B10.D
Lab Sample ID: SVMS 6680 Client Sample ID: 1STD025QB
Injection Date: 03-Aug-2023 17:52:30 Dil. Factor: 1.0
Operator: JCG Inst. ID: msd10.i
Sample Info: 10080323B.b, SVMS 6680
Misc. Info: 1STD025
Method: \\Organics\HH\chem\msd10.i\10080323B.b\8270DLVI-10.m
Method Date: 04-Aug-2023 08:45:30 Quant Method: ISTD
Calib Date: 03-Aug-2023 22:00:30 Calib File: 100803B20.D
Sample Type: Ical, Level: 8 ALS Bottle: 8
Cpnd Sublist: 1STD.sub
Matrix/Level: Soil/Low
Target 4.14 Integrator: falcon

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100)/Vi * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	5000.00	Volume of final extract (uL)(1000 low, 2000 med.
Ws	15.000	Weight of sample extracted (g)
M	0	% Moisture
Vi	5.0000	
Cpnd Variable		Local Cpnd Variable

Column1: ZebronZB-SV (0.25 mm) Detector: MS Scan
Data Reviewer: jcg Review Date: 04-Aug-2023 08:45:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
193 1,4-Dioxane	58.0	3.884	3.884	0.000	61598	25.000	21.801	
2 N-Nitrosodimethylamine	42.0	4.082	4.082	0.000	281784	25.000	23.919	
1 pyridine	79.0	4.136	4.136	0.000	198115	25.000	22.757	
$ 6 2-Fluorophenol	112.0	4.981	4.981	0.000	496517	25.000	24.644	
$ 9 Phenol-d5	99.0	5.628	5.628	0.000	672717	25.000	25.078	
10 Phenol	94.0	5.639	5.639	0.000	687071	25.000	25.143	
11 Aniline	66.0	5.639	5.639	0.000	267523	25.000	24.748	
12 bis(2-Chloroethyl)ether	63.0	5.724	5.724	0.000	455688	25.000	23.533	
201 n-Decane	57.0	5.778	5.778	0.000	532973	25.000	22.962	
13 2-Chlorophenol	128.0	5.810	5.810	0.000	485568	25.000	24.365	
14 1,3-Dichlorobenzene	146.0	5.927	5.927	0.000	499081	25.000	25.979	
* 16 1,4-Dichlorobenzene-d4	152.0	5.970	5.970	0.000	267777	20.000	20.000	
17 1,4-Dichlorobenzene	146.0	5.981	5.981	0.000	541158	25.000	25.782	
18 Benzyl alcohol	79.0	6.050	6.050	0.000	200423	25.000	25.372	
20 o-Cresol	108.0	6.109	6.109	0.000	523093	25.000	25.105	
19 1,2-Dichlorobenzene	146.0	6.109	6.109	0.000	509725	25.000	25.369	
21 bis(2Chloro1methylethyl)ether	45.0	6.131	6.131	0.000	1042687	25.000	22.850	
23 m+p-Cresol	107.0	6.227	6.227	0.000	562573	25.000	25.783	
26 n-Nitroso-di-n-propylamine	70.0	6.243	6.243	0.000	423308	25.000	24.020	
24 Acetophenone	105.0	6.270	6.270	0.000	686751	25.000	24.134	
28 Hexachloroethane	117.0	6.382	6.382	0.000	194980	25.000	25.798	
$ 29 Nitrobenzene-d5	82.0	6.403	6.403	0.000	561562	25.000	27.353	

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
30 Nitrobenzene	77.0	6.420	6.420	0.000	542890	25.000	26.857	
32 Isophorone	82.0	6.596	6.596	0.000	956987	25.000	26.060	
34 2,4-Dimethylphenol	107.0	6.660	6.660	0.000	276985	25.000	23.925	
33 2-Nitrophenol	139.0	6.671	6.671	0.000	254367	25.000	27.460	
35 bis(2-Chloroethoxy)methane	93.0	6.735	6.735	0.000	635511	25.000	26.378	
36 Benzoic acid	105.0	6.751	6.751	0.000	696376	50.000	56.455	
38 2,4-Dichlorophenol	162.0	6.869	6.869	0.000	334702	25.000	26.725	
45 2,6-Dichlorophenol	162.0	7.051	7.051	0.000	314082	25.000	26.062	
40 1,2,4-Trichlorobenzene	180.0	6.938	6.938	0.000	342006	25.000	25.939	
* 41 Naphthalene-d8	136.0	7.003	7.003	0.000	1057422	20.000	20.000	
43 Naphthalene	128.0	7.019	7.019	0.000	1488906	25.000	25.686	
47 Hexachlorobutadiene	224.6	7.088	7.088	0.000	168079	25.000	25.472	
49 4-Chloro-3-methylphenol	107.0	7.409	7.409	0.000	363043	25.000	25.783	
51 2-Methylnaphthalene	142.0	7.586	7.586	0.000	848387	25.000	25.566	
204 1-Methylnaphthalene	142.0	7.676	7.676	0.000	842777	25.000	25.099	
53 Hexachlorocyclopentadiene	237.0	7.709	7.709	0.000	997712	125.00	125.46	
52 1,2,4,5-Tetrachlorobenzene	216.0	7.725	7.725	0.000	315222	25.000	27.253	
54 2,4,6-Trichlorophenol	196.0	7.810	7.810	0.000	173004	25.000	26.979	
55 2,4,5-Trichlorophenol	196.0	7.848	7.848	0.000	190164	25.000	27.684	
$ 56 2-Fluorobiphenyl	172.0	7.874	7.874	0.000	845152	25.000	26.839	
184 Biphenyl	154.0	7.965	7.965	0.000	926487	25.000	26.269	
58 2-Chloronaphthalene	162.0	8.008	8.008	0.000	678243	25.000	26.108	
63 m-Dinitrobenzene	168.0	8.249	8.249	0.000	108418	25.000	27.625	
62 Dimethylphthalate	163.0	8.190	8.190	0.000	620491	25.000	25.876	
65 2,6-Dinitrotoluene	165.0	8.259	8.259	0.000	152952	25.000	26.194	
64 Acenaphthylene	152.0	8.366	8.366	0.000	950021	25.000	26.880	
* 67 Acenaphthene-d10	164.0	8.479	8.479	0.000	465561	20.000	20.000	
69 2,4-Dinitrophenol	184.0	8.505	8.505	0.000	175450	50.000	50.654	
68 Acenaphthene	153.0	8.511	8.511	0.000	732338	25.000	26.248	
70 4-Nitrophenol	109.0	8.532	8.532	0.000	124925	50.000	54.276	
73 2,4-Dinitrotoluene	165.0	8.607	8.607	0.000	175591	25.000	26.471	
71 Dibenzofuran	168.0	8.650	8.650	0.000	863035	25.000	26.228	
76 2,3,4,6-Tetrachlorophenol	232.0	8.741	8.741	0.000	126272	25.000	27.412	
78 Diethylphthalate	149.0	8.773	8.773	0.000	570907	25.000	25.574	
80 4-Chlorophenylphenylether	204.0	8.912	8.912	0.000	302534	25.000	26.193	
79 Fluorene	166.0	8.944	8.944	0.000	689878	25.000	25.974	
84 4,6-Dinitro-2-methylphenol	198.0	8.955	8.955	0.000	90428	25.000	27.502	
86 n-Nitrosodiphenylamine	169.0	9.008	9.008	0.000	420840	25.000	26.434	
87 Azobenzene	77.0	9.046	9.046	0.000	790065	25.000	27.108	
$ 88 2,4,6-Tribromophenol	330.0	9.147	9.147	0.000	47996	25.000	26.215	
94 4-Bromophenylphenylether	248.0	9.335	9.335	0.000	128549	25.000	26.324	
96 Hexachlorobenzene	284.0	9.415	9.415	0.000	110233	25.000	25.901	
202 Octadecane	57.0	9.522	9.522	0.000	649306	25.000	27.441	
99 Pentachlorophenol	266.0	9.575	9.575	0.000	140794	50.000	50.331	
* 102 Phenanthrene-d10	188.0	9.752	9.752	0.000	530759	20.000	20.000	
103 Phenanthrene	178.0	9.773	9.773	0.000	713096	25.000	25.579	
104 Anthracene	178.0	9.816	9.816	0.000	681713	25.000	26.476	
106 Carbazole	167.0	9.939	9.939	0.000	630752	25.000	26.552	
109 Di-n-butylphthalate	149.0	10.148	10.148	0.000	737524	25.000	28.038	
114 Fluoranthene	202.0	10.886	10.886	0.000	579665	25.000	26.616	
116 Pyrene	202.0	11.142	11.142	0.000	573397	25.000	25.015	

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 117 Terphenyl-d14	244.0	11.233	11.233	0.000	368063	25.000	25.710	
122 Butylbenzylphthalate	149.0	11.763	11.763	0.000	224846	25.000	25.238	
130 bis(2-Ethylhexyl)phthalate	149.0	12.496	12.496	0.000	287621	25.000	25.699	
127 Benzo(a)Anthracene	228.0	12.656	12.656	0.000	395174	25.000	25.471	
* 128 Chrysene-d12	240.0	12.672	12.672	0.000	244396	20.000	20.000	
129 Chrysene	228.0	12.710	12.710	0.000	384411	25.000	24.630	
131 Di-n-octylphthalate	149.0	13.490	13.490	0.000	474574	25.000	25.577	
132 Benzo(b)fluoranthene	252.0	14.319	14.319	0.000	350802	25.000	28.104	
134 Benzo(k)fluoranthene	252.0	14.362	14.362	0.000	358017	25.000	25.980	
135 Benzo(a)pyrene	252.0	14.876	14.876	0.000	288208	25.000	27.521	
* 136 Perylene-d12	264.0	14.972	14.972	0.000	211806	20.000	20.000	
138 Indeno(1,2,3-c,d)pyrene	276.0	17.165	17.165	0.000	358115	25.000	24.602	
139 Dibenzo(a,h)anthracene	278.0	17.176	17.176	0.000	302150	25.000	24.623	
140 Benzo(g,h,i)perylene	276.0	17.828	17.828	0.000	277178	25.000	26.106	

Compound Type Legend

$ - Surrogate

* - ISTD

QC Flag Legend

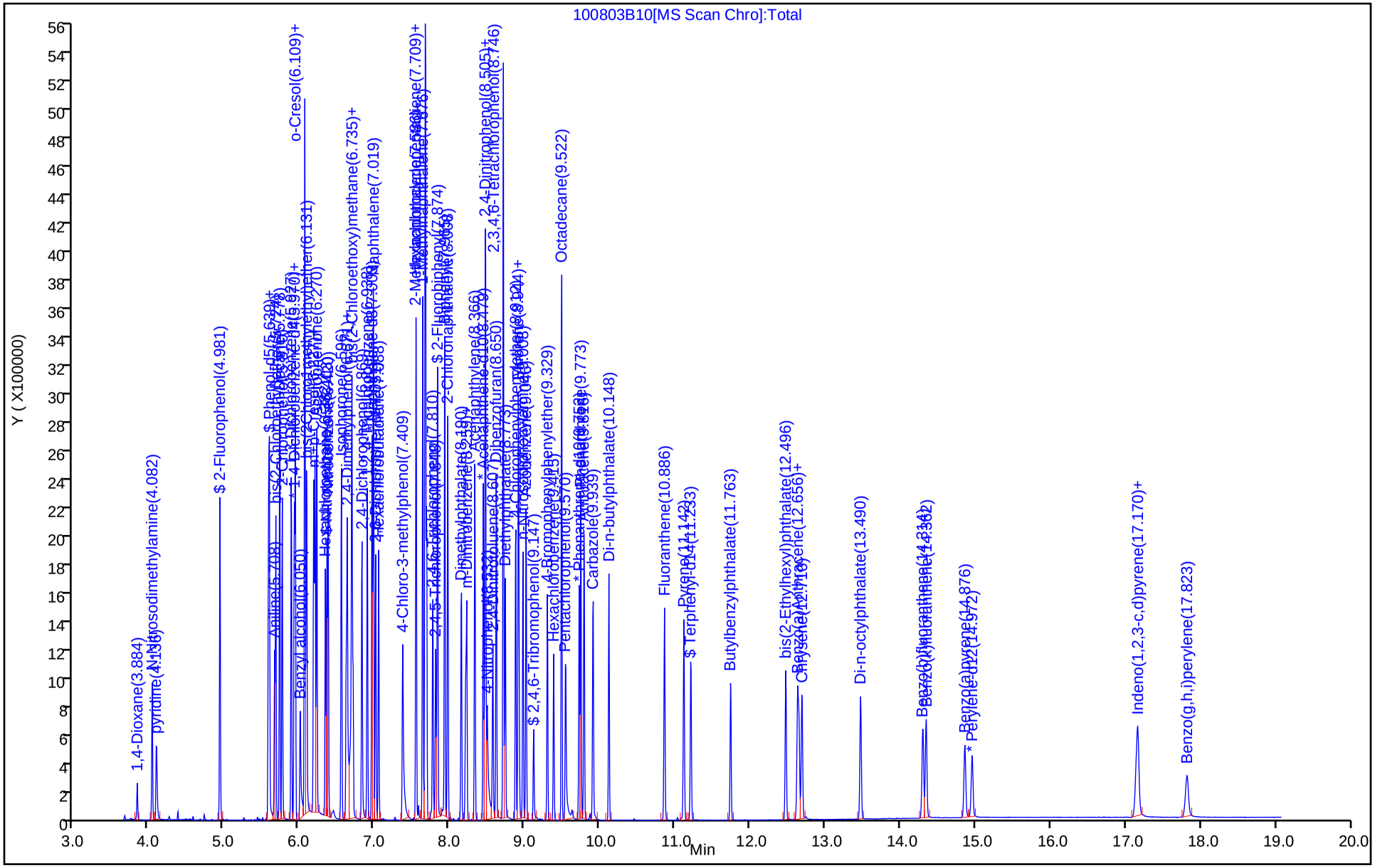
Processing Flags

Review Flags

Report Date: 04-Aug-2023 08:45:38 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

Data File:	\\Organics\HH\chem\msd10.i\10080323B.b\100803B10.D				
Injection Date:	03-Aug-2023 17:52:30	Inst. ID:	msd10.i	Operator:	JCG
Client ID:	1STD025QB	Lab ID:	SVMS 6680		
Sample Info:	10080323B.b, SVMS 6680				
Injection Vol.	5.00	Dil. Factor:	1.0		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan		



Report Date: 04-Aug-2023 08:45:38 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

Resolution Report

Data File:	\\Organics\HH\chem\msd10.i\10080323B.b\100803B10.D		
Injection Date:	03-Aug-2023 17:52:30	Inst. ID:	msd10.i
Client ID:	1STD025QB	Lab ID:	SVMS 6680
Sample Info:	10080323B.b, SVMS 6680		
Injection Vol.	5.00	Dil. Factor:	1.0
Operator:	JCG		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan

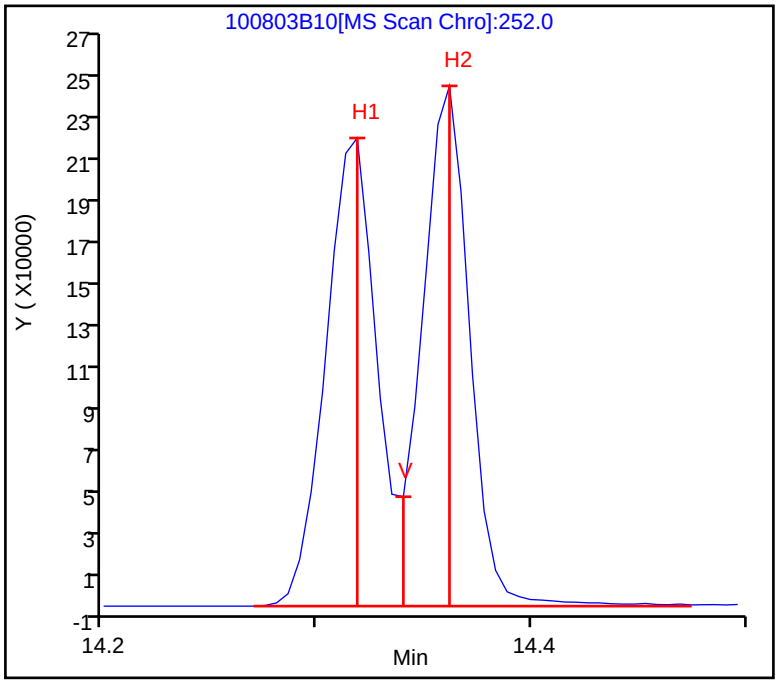
132 Benzo(b)fluoranthene @ 14.319 - 134 Benzo(k)fluoranthene @ 14.362

SW-846 Method
Version D

%Valley = (V / ((H1 + H2)/2)) * 100

V (Valley Height) = 49976
H1(132 Benzo(b)fluoranthen) = 213824
H2(134 Benzo(k)fluoranthen) = 237632

%Valley = 22 <= 50
Passed



Pace Environmental Services, LLC
Target Compound Quantitation Report

Data File: \\Organics\HH\chem\msd10.i\10080323B.b\100803B11.D
Lab Sample ID: SVMS 6681 Client Sample ID: 1STD030QB
Injection Date: 03-Aug-2023 18:17:30 Dil. Factor: 1.0
Operator: JCG Inst. ID: msd10.i
Sample Info: 10080323B.b, SVMS 6681
Misc. Info: 1STD030
Method: \\Organics\HH\chem\msd10.i\10080323B.b\8270DLVI-10.m
Method Date: 04-Aug-2023 08:45:30 Quant Method: ISTD
Calib Date: 03-Aug-2023 22:00:30 Calib File: 100803B20.D
Sample Type: Ical, Level: 9 ALS Bottle: 9
Cpnd Sublist: 1STD.sub
Matrix/Level: Soil/Low
Target 4.14 Integrator: falcon

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100)/Vi * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	5000.00	Volume of final extract (uL)(1000 low, 2000 med.
Ws	15.000	Weight of sample extracted (g)
M	0	% Moisture
Vi	5.0000	
Cpnd Variable		Local Cpnd Variable

Column1: ZebronZB-SV (0.25 mm) Detector: MS Scan
Data Reviewer: jcg Review Date: 04-Aug-2023 08:45:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
193 1,4-Dioxane	58.0	3.884	3.884	0.000	67130	30.000	24.152	
2 N-Nitrosodimethylamine	42.0	4.087	4.087	0.000	332119	30.000	28.657	
1 pyridine	79.0	4.141	4.141	0.000	226741	30.000	26.475	
$ 6 2-Fluorophenol	112.0	4.986	4.986	0.000	591293	30.000	29.833	
$ 9 Phenol-d5	99.0	5.628	5.628	0.000	807200	30.000	30.589	
10 Phenol	94.0	5.638	5.638	0.000	826169	30.000	30.733	
11 Aniline	66.0	5.638	5.638	0.000	319603	30.000	30.054	
12 bis(2-Chloroethyl)ether	63.0	5.724	5.724	0.000	547118	30.000	28.722	
201 n-Decane	57.0	5.778	5.778	0.000	598656	30.000	26.218	
13 2-Chlorophenol	128.0	5.810	5.810	0.000	586543	30.000	29.918	
14 1,3-Dichlorobenzene	146.0	5.933	5.933	0.000	601815	30.000	31.844	
* 16 1,4-Dichlorobenzene-d4	152.0	5.970	5.970	0.000	263424	20.000	20.000	
17 1,4-Dichlorobenzene	146.0	5.986	5.986	0.000	648612	30.000	31.412	
18 Benzyl alcohol	79.0	6.050	6.050	0.000	243772	30.000	31.370	
20 o-Cresol	108.0	6.109	6.109	0.000	616812	30.000	30.093	
19 1,2-Dichlorobenzene	146.0	6.109	6.109	0.000	613136	30.000	31.020	
21 bis(2Chloro1methylethyl)ether	45.0	6.131	6.131	0.000	1246164	30.000	27.760	
23 m+p-Cresol	107.0	6.227	6.227	0.000	675318	30.000	31.461	
26 n-Nitroso-di-n-propylamine	70.0	6.248	6.248	0.000	503918	30.000	29.066	
24 Acetophenone	105.0	6.270	6.270	0.000	813706	30.000	29.068	
28 Hexachloroethane	117.0	6.382	6.382	0.000	236971	30.000	31.872	
$ 29 Nitrobenzene-d5	82.0	6.403	6.403	0.000	670895	30.000	32.837	

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
30 Nitrobenzene	77.0	6.419	6.419	0.000	646211	30.000	32.123	
32 Isophorone	82.0	6.596	6.596	0.000	1145301	30.000	31.339	
34 2,4-Dimethylphenol	107.0	6.660	6.660	0.000	335757	30.000	29.142	
33 2-Nitrophenol	139.0	6.676	6.676	0.000	305460	30.000	33.135	
35 bis(2-Chloroethoxy)methane	93.0	6.735	6.735	0.000	758621	30.000	31.640	
36 Benzoic acid	105.0	6.762	6.762	0.000	852763	60.000	69.468	
38 2,4-Dichlorophenol	162.0	6.869	6.869	0.000	395575	30.000	31.738	
45 2,6-Dichlorophenol	162.0	7.051	7.051	0.000	379710	30.000	31.660	
40 1,2,4-Trichlorobenzene	180.0	6.938	6.938	0.000	404532	30.000	30.830	
* 41 Naphthalene-d8	136.0	7.002	7.002	0.000	1052330	20.000	20.000	
43 Naphthalene	128.0	7.024	7.024	0.000	1763491	30.000	30.570	
47 Hexachlorobutadiene	224.6	7.093	7.093	0.000	202179	30.000	30.789	
49 4-Chloro-3-methylphenol	107.0	7.409	7.409	0.000	425682	30.000	30.378	
51 2-Methylnaphthalene	142.0	7.591	7.591	0.000	1018341	30.000	30.836	
204 1-Methylnaphthalene	142.0	7.676	7.676	0.000	1004974	30.000	30.075	
53 Hexachlorocyclopentadiene	237.0	7.714	7.714	0.000	1158014	150.00	150.48	
52 1,2,4,5-Tetrachlorobenzene	216.0	7.730	7.730	0.000	374318	30.000	33.599	
54 2,4,6-Trichlorophenol	196.0	7.810	7.810	0.000	202807	30.000	32.835	
55 2,4,5-Trichlorophenol	196.0	7.847	7.847	0.000	223107	30.000	33.721	
$ 56 2-Fluorobiphenyl	172.0	7.874	7.874	0.000	1009929	30.000	33.297	
184 Biphenyl	154.0	7.970	7.970	0.000	1096307	30.000	32.272	
58 2-Chloronaphthalene	162.0	8.008	8.008	0.000	802116	30.000	32.056	
63 m-Dinitrobenzene	168.0	8.249	8.249	0.000	123263	30.000	32.608	
62 Dimethylphthalate	163.0	8.190	8.190	0.000	722947	30.000	31.300	
65 2,6-Dinitrotoluene	165.0	8.259	8.259	0.000	177322	30.000	31.527	
64 Acenaphthylene	152.0	8.366	8.366	0.000	1122394	30.000	32.970	
* 67 Acenaphthene-d10	164.0	8.479	8.479	0.000	448429	20.000	20.000	
69 2,4-Dinitrophenol	184.0	8.505	8.505	0.000	203177	60.000	60.332	
68 Acenaphthene	153.0	8.511	8.511	0.000	872214	30.000	32.456	
70 4-Nitrophenol	109.0	8.532	8.532	0.000	139038	60.000	62.716	
73 2,4-Dinitrotoluene	165.0	8.607	8.607	0.000	199877	30.000	31.283	
71 Dibenzofuran	168.0	8.655	8.655	0.000	1003785	30.000	31.671	
76 2,3,4,6-Tetrachlorophenol	232.0	8.746	8.746	0.000	148551	30.000	33.481	
78 Diethylphthalate	149.0	8.773	8.773	0.000	656237	30.000	30.520	
80 4-Chlorophenylphenylether	204.0	8.912	8.912	0.000	351544	30.000	31.599	
79 Fluorene	166.0	8.944	8.944	0.000	806101	30.000	31.509	
84 4,6-Dinitro-2-methylphenol	198.0	8.955	8.955	0.000	104027	30.000	33.678	
86 n-Nitrosodiphenylamine	169.0	9.008	9.008	0.000	486175	30.000	32.508	
87 Azobenzene	77.0	9.046	9.046	0.000	920026	30.000	33.603	
$ 88 2,4,6-Tribromophenol	330.0	9.153	9.153	0.000	55895	30.000	32.499	
94 4-Bromophenylphenylether	248.0	9.334	9.334	0.000	147730	30.000	32.203	
96 Hexachlorobenzene	284.0	9.415	9.415	0.000	126563	30.000	31.656	
202 Octadecane	57.0	9.522	9.522	0.000	758266	30.000	34.113	
99 Pentachlorophenol	266.0	9.575	9.575	0.000	155357	60.000	58.778	
* 102 Phenanthrene-d10	188.0	9.752	9.752	0.000	498599	20.000	20.000	
103 Phenanthrene	178.0	9.773	9.773	0.000	797907	30.000	30.467	
104 Anthracene	178.0	9.821	9.821	0.000	769031	30.000	31.794	
106 Carbazole	167.0	9.939	9.939	0.000	695910	30.000	31.184	
109 Di-n-butylphthalate	149.0	10.147	10.147	0.000	812400	30.000	32.876	
114 Fluoranthene	202.0	10.885	10.885	0.000	628942	30.000	30.741	
116 Pyrene	202.0	11.142	11.142	0.000	617369	30.000	30.607	

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 117 Terphenyl-d14	244.0	11.238	11.238	0.000	390708	30.000	31.014	
122 Butylbenzylphthalate	149.0	11.763	11.763	0.000	240855	30.000	30.588	
130 bis(2-Ethylhexyl)phthalate	149.0	12.495	12.495	0.000	303312	30.000	30.652	
127 Benzo(a)Anthracene	228.0	12.651	12.651	0.000	419322	30.000	30.714	
* 128 Chrysene-d12	240.0	12.672	12.672	0.000	215064	20.000	20.000	
129 Chrysene	228.0	12.709	12.709	0.000	401233	30.000	29.214	
131 Di-n-octylphthalate	149.0	13.490	13.490	0.000	514756	30.000	30.993	
132 Benzo(b)fluoranthene	252.0	14.319	14.319	0.000	379405	30.000	34.137	
134 Benzo(k)fluoranthene	252.0	14.362	14.362	0.000	389214	30.000	31.720	
135 Benzo(a)pyrene	252.0	14.876	14.876	0.000	311781	30.000	33.436	
* 136 Perylene-d12	264.0	14.966	14.966	0.000	188593	20.000	20.000	
138 Indeno(1,2,3-c,d)pyrene	276.0	17.165	17.165	0.000	393928	30.000	30.363	
139 Dibenzo(a,h)anthracene	278.0	17.175	17.175	0.000	336019	30.000	30.716	
140 Benzo(g,h,i)perylene	276.0	17.828	17.828	0.000	307857	30.000	32.564	

Compound Type Legend

$ - Surrogate

* - ISTD

QC Flag Legend

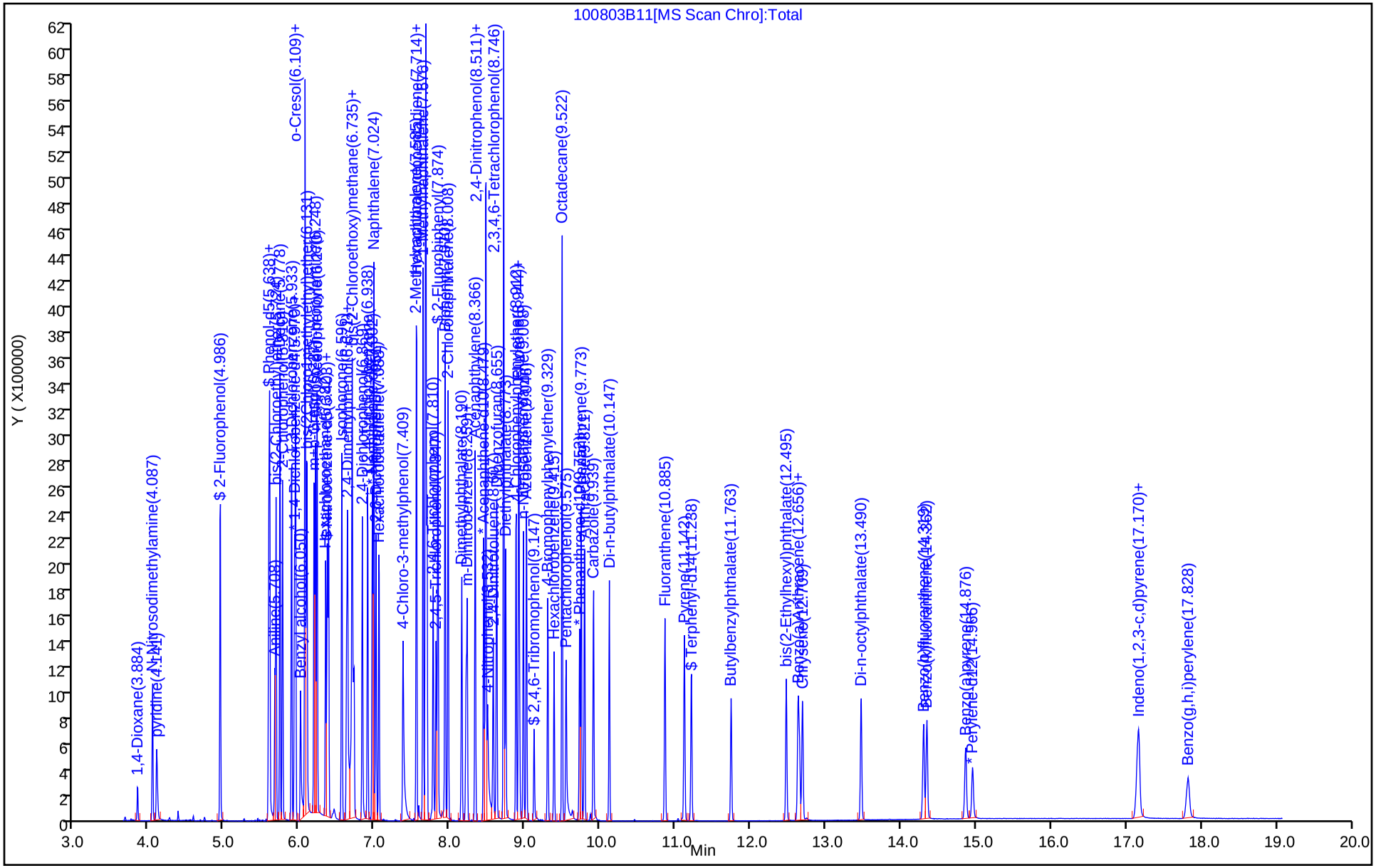
Processing Flags

Review Flags

Report Date: 04-Aug-2023 08:45:39 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

Data File:	\\Organics\HH\chem\msd10.i\10080323B.b\100803B11.D				
Injection Date:	03-Aug-2023 18:17:30	Inst. ID:	msd10.i	Operator:	JCG
Client ID:	1STD030QB	Lab ID:	SVMS 6681		
Sample Info:	10080323B.b, SVMS 6681				
Injection Vol.	5.00	Dil. Factor:	1.0		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan		



Report Date: 04-Aug-2023 08:45:39 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

Resolution Report

Data File:	\\Organics\HH\chem\msd10.i\10080323B.b\100803B11.D		
Injection Date:	03-Aug-2023 18:17:30	Inst. ID:	msd10.i
Client ID:	1STD030QB	Lab ID:	SVMS 6681
Sample Info:	10080323B.b, SVMS 6681		
Injection Vol.	5.00	Dil. Factor:	1.0
Operator:	JCG		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan

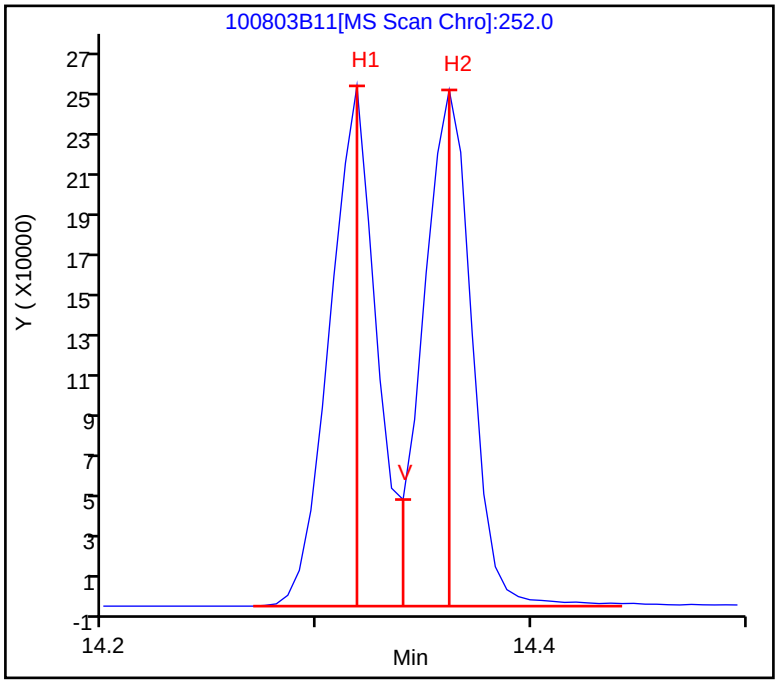
132 Benzo(b)fluoranthene @ 14.319 - 134 Benzo(k)fluoranthene @ 14.362

SW-846 Method
Version D

%Valley = (V / ((H1 + H2)/2)) * 100

V (Valley Height) = 52128
H1(132 Benzo(b)fluoranthen) = 254400
H2(134 Benzo(k)fluoranthen) = 252416

%Valley = 21 <= 50
Passed



Pace Environmental Services, LLC
Target Compound Quantitation Report

Data File: \\Organics\HH\chem\msd10.i\10080323B.b\100803B13.D
Lab Sample ID: SVMS 6576 Client Sample ID:
Injection Date: 03-Aug-2023 19:06:30 Dil. Factor: 1.0
Operator: JCG Inst. ID: msd10.i
Sample Info: 10080323B.b, SVMS 6576
Misc. Info: 3STD001
Method: \\Organics\HH\chem\msd10.i\10080323B.b\8270DLVI-10.m
Method Date: 03-Aug-2023 23:11:30 Quant Method: ISTD
Calib Date: 03-Aug-2023 22:00:30 Calib File: 100803B20.D
Sample Type: Ical, Level: 2 ALS Bottle: 11
Cpnd Sublist: 3STD.sub
Matrix/Level: Soil/Low
Target 4.14 Integrator: falcon

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100)/Vi * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	5000.00	Volume of final extract (uL)(1000 low, 2000 med.
Ws	15.000	Weight of sample extracted (g)
M	0	% Moisture
Vi	5.0000	
Cpnd Variable		Local Cpnd Variable

Column1: ZebronZB-SV (0.25 mm) Detector: MS Scan
Data Reviewer: jcg Review Date: 03-Aug-2023 23:00:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 16 1,4-Dichlorobenzene-d4	152.0	5.965	5.965	0.000	194168	20.000	20.000	
199 Benzaldehyde	77.0	5.633	5.633	0.000	10013	1.0000	0.91845	
* 41 Naphthalene-d8	136.0	6.997	6.997	0.000	926831	20.000	20.000	
44 4-Chloroaniline	127.0	7.045	7.045	0.000	9862	1.0000	0.58761	
196 Caprolactam	113.0	7.313	7.313	0.000	3178	1.0000	0.67311	
* 67 Acenaphthene-d10	164.0	8.479	8.479	0.000	502603	20.000	20.000	
200 Atrazine	200.0	9.425	9.425	0.000	3945	1.0000	0.74294	
* 102 Phenanthrene-d10	188.0	9.752	9.752	0.000	622594	20.000	20.000	
115 Benzidine	184.0	10.998	10.998	0.000	6459	5.0000	0.66568	
125 3,3'-Dichlorobenzidine	252.0	12.581	12.581	0.000	2397	1.0000	0.58559	
* 128 Chrysene-d12	240.0	12.667	12.667	0.000	254947	20.000	20.000	
* 136 Perylene-d12	264.0	14.972	14.972	0.000	198547	20.000	20.000	
60 2-Nitroaniline	138.0	8.083	8.083	0.000	6324	1.0000	0.69479	
66 3-Nitroaniline	138.0	8.430	8.430	0.000	2319	1.0000	0.36872	
83 4-Nitroaniline	138.0	8.992	8.992	0.000	2543	1.0000	0.46503	

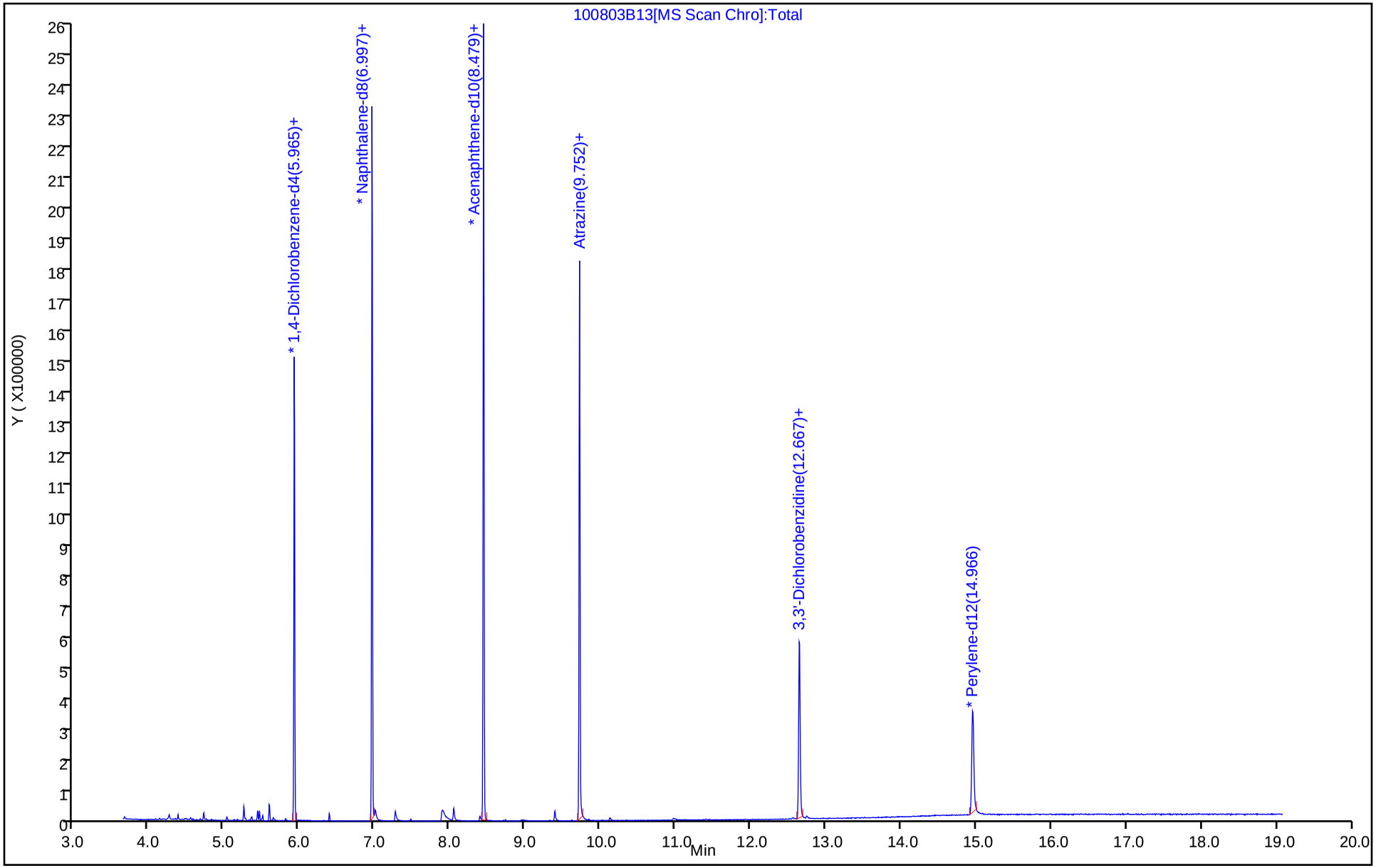
Compound Type Legend
* - ISTD

QC Flag Legend
Processing Flags
Review Flags

Report Date: 03-Aug-2023 23:11:54 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

Data File:	\\Organics\HH\chem\msd10.i\10080323B.b\100803B13.D				
Injection Date:	03-Aug-2023 19:06:30	Inst. ID:	msd10.i	Operator:	JCG
Client ID:		Lab ID:	SVMS 6576		
Sample Info:	10080323B.b, SVMS 6576				
Injection Vol.	5.00	Dil. Factor:	1.0		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan		



Pace Environmental Services, LLC

Resolution Report

Data File:	\\Organics\HH\chem\msd10.i\10080323B.b\100803B13.D		
Injection Date:	03-Aug-2023 19:06:30	Inst. ID:	msd10.i
Client ID:		Lab ID:	SVMS 6576
Sample Info:	10080323B.b, SVMS 6576		
Injection Vol.	5.00	Dil. Factor:	1.0
Operator:	JCG		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan

134 Benzo(k)fluoranthene @ 0.000 - 132 Benzo(b)fluoranthene @ 0.000

SW-846 Method
Version D

%Valley = (V / ((H1 + H2)/2)) * 100

V (Valley Height) = 0
H1(134 Benzo(k)fluoranthen) = 0
H2(132 Benzo(b)fluoranthen) = 0

%Valley = 0 <= 50
Passed

Pace Environmental Services, LLC
Target Compound Quantitation Report

Data File: \\Organics\HH\chem\msd10.i\10080323B.b\100803B14.D
Lab Sample ID: SVMS 6577 Client Sample ID:
Injection Date: 03-Aug-2023 19:31:30 Dil. Factor: 1.0
Operator: JCG Inst. ID: msd10.i
Sample Info: 10080323B.b, SVMS 6577
Misc. Info: 3STD002
Method: \\Organics\HH\chem\msd10.i\10080323B.b\8270DLVI-10.m
Method Date: 03-Aug-2023 23:11:30 Quant Method: ISTD
Calib Date: 03-Aug-2023 22:00:30 Calib File: 100803B20.D
Sample Type: Ical, Level: 3 ALS Bottle: 12
Cpnd Sublist: 3STD.sub
Matrix/Level: Soil/Low
Target 4.14 Integrator: falcon

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100)/Vi * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	5000.00	Volume of final extract (uL)(1000 low, 2000 med.
Ws	15.000	Weight of sample extracted (g)
M	0	% Moisture
Vi	5.0000	
Cpnd Variable		Local Cpnd Variable

Column1: ZebronZB-SV (0.25 mm) Detector: MS Scan
Data Reviewer: jcg Review Date: 03-Aug-2023 23:00:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 16 1,4-Dichlorobenzene-d4	152.0	5.965	5.965	0.000	188575	20.000	20.000	
199 Benzaldehyde	77.0	5.633	5.633	0.000	21435	2.0000	2.0245	
* 41 Naphthalene-d8	136.0	6.997	6.997	0.000	1013319	20.000	20.000	
44 4-Chloroaniline	127.0	7.035	7.035	0.000	28572	2.0000	1.5571	
196 Caprolactam	113.0	7.307	7.307	0.000	8691	2.0000	1.6837	
* 67 Acenaphthene-d10	164.0	8.479	8.479	0.000	545727	20.000	20.000	
200 Atrazine	200.0	9.420	9.420	0.000	10870	2.0000	1.8654	
* 102 Phenanthrene-d10	188.0	9.752	9.752	0.000	683221	20.000	20.000	
115 Benzidine	184.0	10.987	10.987	0.000	49029	10.000	4.9243	
125 3,3'-Dichlorobenzidine	252.0	12.576	12.576	0.000	6910	2.0000	1.6451	
* 128 Chrysene-d12	240.0	12.667	12.667	0.000	261611	20.000	20.000	
* 136 Perylene-d12	264.0	14.967	14.967	0.000	195580	20.000	20.000	
60 2-Nitroaniline	138.0	8.078	8.078	0.000	15522	2.0000	1.5706	
66 3-Nitroaniline	138.0	8.425	8.425	0.000	9692	2.0000	1.4192	
83 4-Nitroaniline	138.0	8.960	8.960	0.000	8455	2.0000	1.4240	

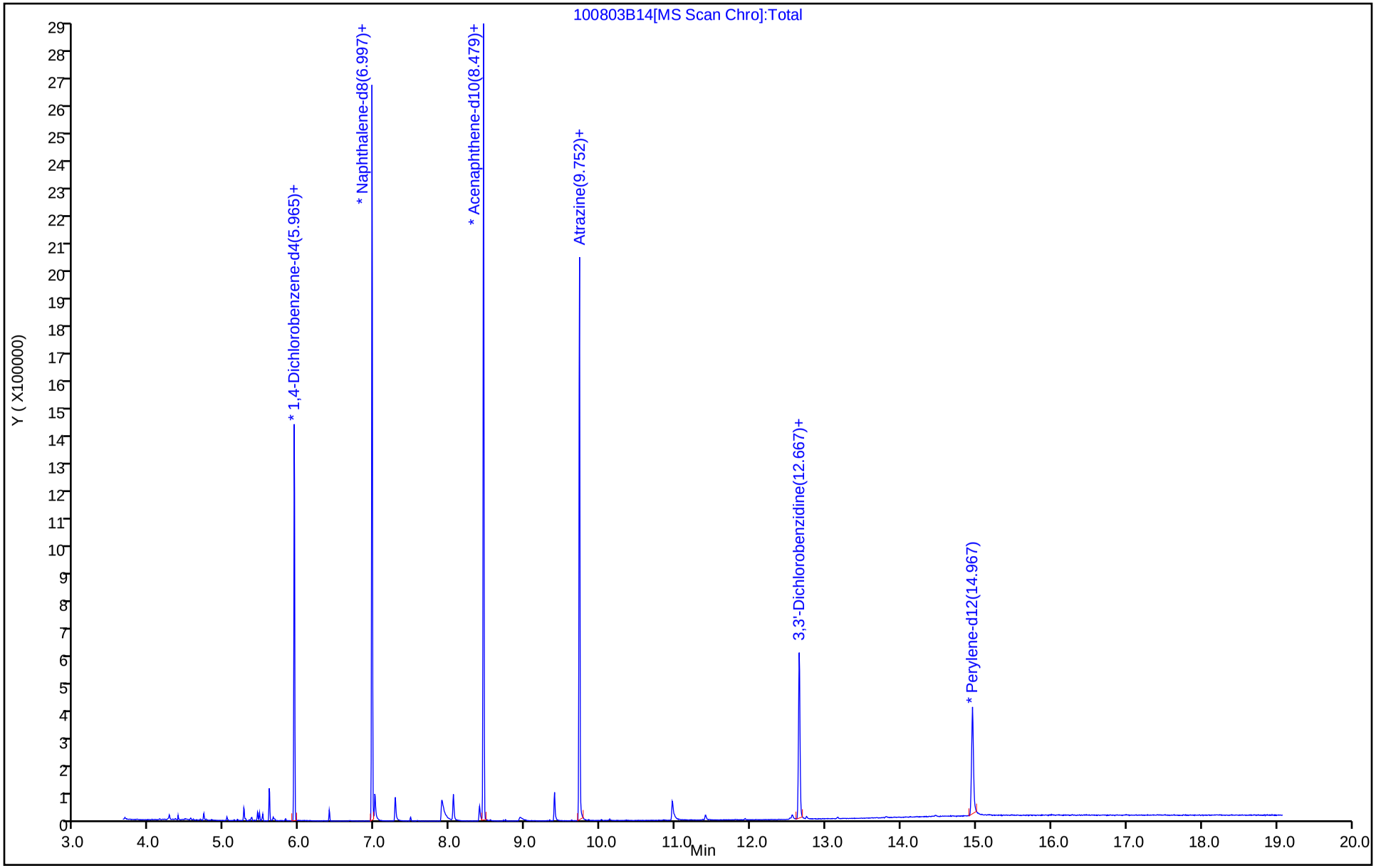
Compound Type Legend
* - ISTD

QC Flag Legend
Processing Flags
Review Flags

Report Date: 03-Aug-2023 23:11:54 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

Data File:	\\Organics\HH\chem\msd10.i\10080323B.b\100803B14.D				
Injection Date:	03-Aug-2023 19:31:30	Inst. ID:	msd10.i	Operator:	JCG
Client ID:		Lab ID:	SVMS 6577		
Sample Info:	10080323B.b, SVMS 6577				
Injection Vol.	5.00	Dil. Factor:	1.0		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan		



Pace Environmental Services, LLC

Resolution Report

Data File:	\\Organics\HH\chem\msd10.i\10080323B.b\100803B14.D		
Injection Date:	03-Aug-2023 19:31:30	Inst. ID:	msd10.i
Client ID:		Lab ID:	SVMS 6577
Sample Info:	10080323B.b, SVMS 6577		
Injection Vol.	5.00	Dil. Factor:	1.0
Operator:	JCG		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan

134 Benzo(k)fluoranthene @ 0.000 - 132 Benzo(b)fluoranthene @ 0.000

SW-846 Method
Version D

%Valley = (V / ((H1 + H2)/2)) * 100

V (Valley Height) = 0
H1(134 Benzo(k)fluoranthen) = 0
H2(132 Benzo(b)fluoranthen) = 0

%Valley = 0 <= 50
Passed

Pace Environmental Services, LLC
Target Compound Quantitation Report

Data File: \\Organics\HH\chem\msd10.i\10080323B.b\100803B15.D
Lab Sample ID: SVMS 6578 Client Sample ID:
Injection Date: 03-Aug-2023 19:56:30 Dil. Factor: 1.0
Operator: JCG Inst. ID: msd10.i
Sample Info: 10080323B.b, SVMS 6578
Misc. Info: 3STD005
Method: \\Organics\HH\chem\msd10.i\10080323B.b\8270DLVI-10.m
Method Date: 03-Aug-2023 23:11:30 Quant Method: ISTD
Calib Date: 03-Aug-2023 22:00:30 Calib File: 100803B20.D
Sample Type: Ical, Level: 4 ALS Bottle: 13
Cpnd Sublist: 3STD.sub
Matrix/Level: Soil/Low
Target 4.14 Integrator: falcon

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100)/Vi * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	5000.00	Volume of final extract (uL)(1000 low, 2000 med.
Ws	15.000	Weight of sample extracted (g)
M	0	% Moisture
Vi	5.0000	
Cpnd Variable		Local Cpnd Variable

Column1: ZebronZB-SV (0.25 mm) Detector: MS Scan
Data Reviewer: jcg Review Date: 03-Aug-2023 23:00:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 16 1,4-Dichlorobenzene-d4	152.0	5.965	5.965	0.000	220980	20.000	20.000	
199 Benzaldehyde	77.0	5.633	5.633	0.000	59953	5.0000	4.8320	
* 41 Naphthalene-d8	136.0	6.997	6.997	0.000	1029571	20.000	20.000	
44 4-Chloroaniline	127.0	7.034	7.034	0.000	85542	5.0000	4.5883	
196 Caprolactam	113.0	7.307	7.307	0.000	25772	5.0000	4.9139	
* 67 Acenaphthene-d10	164.0	8.479	8.479	0.000	543783	20.000	20.000	
200 Atrazine	200.0	9.420	9.420	0.000	28611	5.0000	4.8719	
* 102 Phenanthrene-d10	188.0	9.752	9.752	0.000	688562	20.000	20.000	
115 Benzidine	184.0	10.976	10.976	0.000	220676	25.000	21.340	
125 3,3'-Dichlorobenzidine	252.0	12.570	12.570	0.000	20768	5.0000	4.7605	
* 128 Chrysene-d12	240.0	12.667	12.667	0.000	271717	20.000	20.000	
* 136 Perylene-d12	264.0	14.967	14.967	0.000	205854	20.000	20.000	
60 2-Nitroaniline	138.0	8.072	8.072	0.000	43722	5.0000	4.4398	
66 3-Nitroaniline	138.0	8.420	8.420	0.000	29867	5.0000	4.3892	
83 4-Nitroaniline	138.0	8.949	8.949	0.000	27738	5.0000	4.6882	

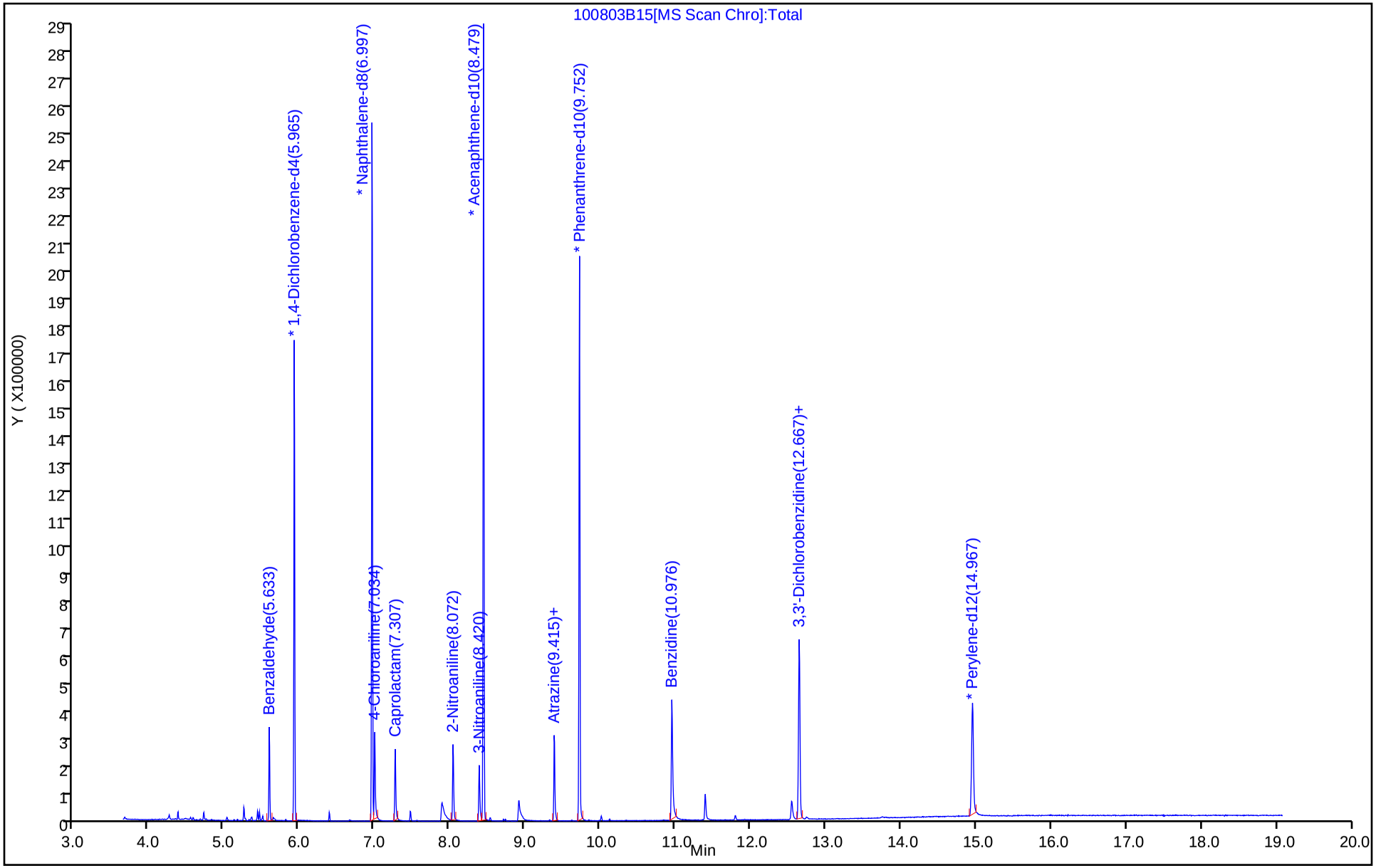
Compound Type Legend
* - ISTD

QC Flag Legend
Processing Flags
Review Flags

Report Date: 03-Aug-2023 23:11:54 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

Data File:	\\Organics\HH\chem\msd10.i\10080323B.b\100803B15.D				
Injection Date:	03-Aug-2023 19:56:30	Inst. ID:	msd10.i	Operator:	JCG
Client ID:		Lab ID:	SVMS 6578		
Sample Info:	10080323B.b, SVMS 6578				
Injection Vol.	5.00	Dil. Factor:	1.0		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan		



Pace Environmental Services, LLC

Resolution Report

Data File:	\\Organics\HH\chem\msd10.i\10080323B.b\100803B15.D		
Injection Date:	03-Aug-2023 19:56:30	Inst. ID:	msd10.i
Client ID:		Lab ID:	SVMS 6578
Sample Info:	10080323B.b, SVMS 6578		
Injection Vol.	5.00	Dil. Factor:	1.0
Operator:	JCG		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan

134 Benzo(k)fluoranthene @ 0.000 - 132 Benzo(b)fluoranthene @ 0.000

SW-846 Method
Version D

%Valley = (V / ((H1 + H2)/2)) * 100

V (Valley Height) = 0
H1(134 Benzo(k)fluoranthen) = 0
H2(132 Benzo(b)fluoranthen) = 0

%Valley = 0 <= 50
Passed

Pace Environmental Services, LLC
Target Compound Quantitation Report

Data File: \\Organics\HH\chem\msd10.i\10080323B.b\100803B16.D
Lab Sample ID: SVMS 6579 Client Sample ID:
Injection Date: 03-Aug-2023 20:21:30 Dil. Factor: 1.0
Operator: JCG Inst. ID: msd10.i
Sample Info: 10080323B.b, SVMS 6579
Misc. Info: 3STD010
Method: \\Organics\HH\chem\msd10.i\10080323B.b\8270DLVI-10.m
Method Date: 03-Aug-2023 23:11:30 Quant Method: ISTD
Calib Date: 03-Aug-2023 22:00:30 Calib File: 100803B20.D
Sample Type: Ical, Level: 5 ALS Bottle: 14
Cpnd Sublist: 3STD.sub
Matrix/Level: Soil/Low
Target 4.14 Integrator: falcon

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100)/Vi * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	5000.00	Volume of final extract (uL)(1000 low, 2000 med.
Ws	15.000	Weight of sample extracted (g)
M	0	% Moisture
Vi	5.0000	
Cpnd Variable		Local Cpnd Variable

Column1: ZebronZB-SV (0.25 mm) Detector: MS Scan
Data Reviewer: jcg Review Date: 03-Aug-2023 23:00:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 16 1,4-Dichlorobenzene-d4	152.0	5.965	5.965	0.000	228690	20.000	20.000	
199 Benzaldehyde	77.0	5.633	5.633	0.000	125310	10.000	9.7591	
* 41 Naphthalene-d8	136.0	6.997	6.997	0.000	1089744	20.000	20.000	
44 4-Chloroaniline	127.0	7.035	7.035	0.000	221853	10.000	11.243	
196 Caprolactam	113.0	7.307	7.307	0.000	61883	10.000	11.148	
* 67 Acenaphthene-d10	164.0	8.479	8.479	0.000	557489	20.000	20.000	
200 Atrazine	200.0	9.420	9.420	0.000	66091	10.000	10.796	
* 102 Phenanthrene-d10	188.0	9.752	9.752	0.000	717761	20.000	20.000	
115 Benzidine	184.0	10.976	10.976	0.000	589166	50.000	56.698	
125 3,3'-Dichlorobenzidine	252.0	12.565	12.565	0.000	49354	10.000	11.258	
* 128 Chrysene-d12	240.0	12.667	12.667	0.000	273035	20.000	20.000	
* 136 Perylene-d12	264.0	14.967	14.967	0.000	202146	20.000	20.000	
60 2-Nitroaniline	138.0	8.072	8.072	0.000	105337	10.000	10.434	
66 3-Nitroaniline	138.0	8.420	8.420	0.000	75380	10.000	10.805	
83 4-Nitroaniline	138.0	8.939	8.939	0.000	66172	10.000	10.909	

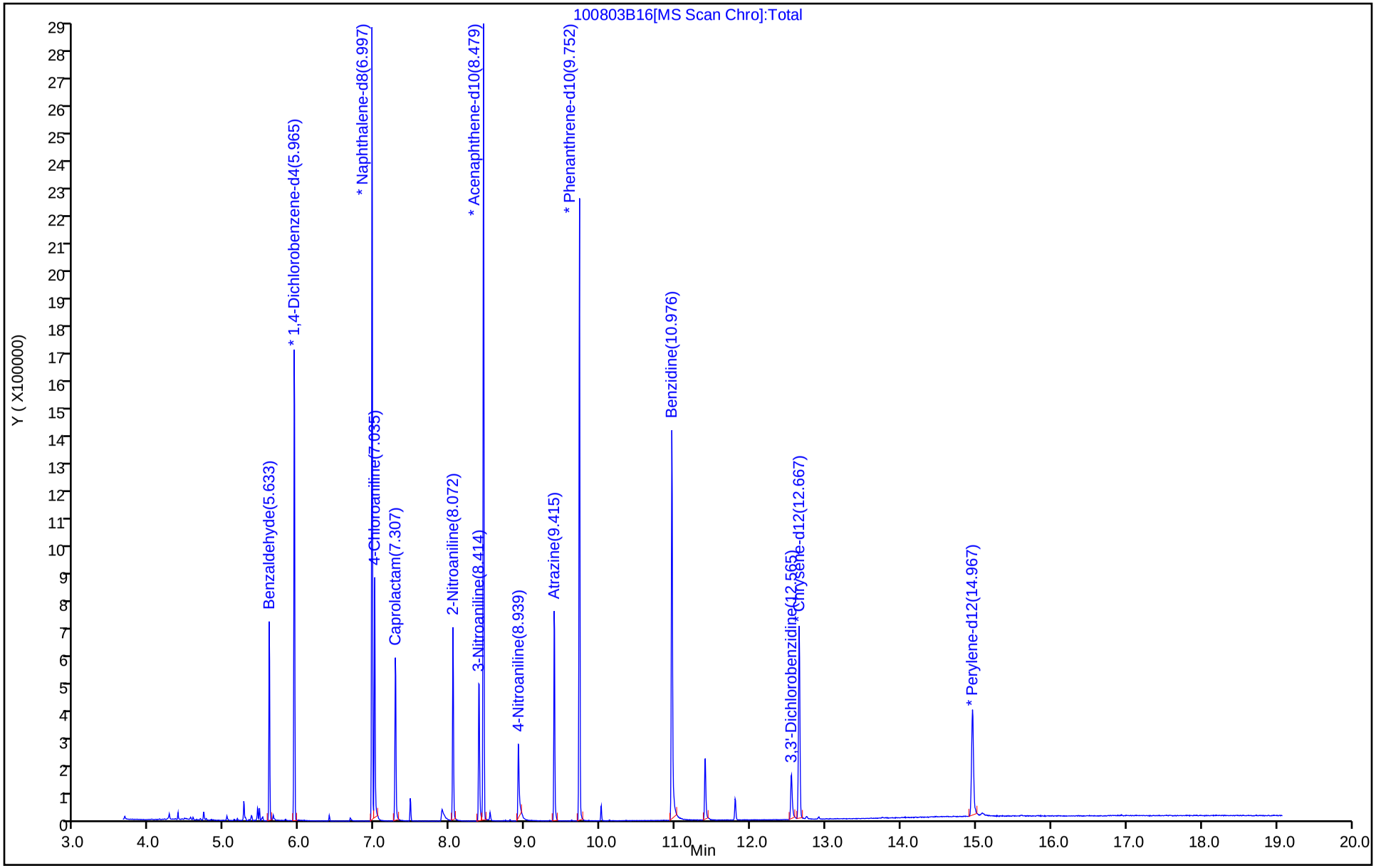
Compound Type Legend
* - ISTD

QC Flag Legend
Processing Flags
Review Flags

Report Date: 03-Aug-2023 23:11:55 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

Data File:	\\Organics\HH\chem\msd10.i\10080323B.b\100803B16.D				
Injection Date:	03-Aug-2023 20:21:30	Inst. ID:	msd10.i	Operator:	JCG
Client ID:		Lab ID:	SVMS 6579		
Sample Info:	10080323B.b, SVMS 6579				
Injection Vol.	5.00	Dil. Factor:	1.0		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan		



Pace Environmental Services, LLC

Resolution Report

Data File:	\\Organics\HH\chem\msd10.i\10080323B.b\100803B16.D		
Injection Date:	03-Aug-2023 20:21:30	Inst. ID:	msd10.i
Client ID:		Lab ID:	SVMS 6579
Sample Info:	10080323B.b, SVMS 6579		
Injection Vol.	5.00	Dil. Factor:	1.0
Operator:	JCG		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan

134 Benzo(k)fluoranthene @ 0.000 - 132 Benzo(b)fluoranthene @ 0.000

SW-846 Method
Version D

%Valley = (V / ((H1 + H2)/2)) * 100

V (Valley Height) = 0
H1(134 Benzo(k)fluoranthen) = 0
H2(132 Benzo(b)fluoranthen) = 0

%Valley = 0 <= 50
Passed

Pace Environmental Services, LLC
Target Compound Quantitation Report

Data File: \\Organics\HH\chem\msd10.i\10080323B.b\100803B17.D
Lab Sample ID: SVMS 6580 Client Sample ID:
Injection Date: 03-Aug-2023 20:46:30 Dil. Factor: 1.0
Operator: JCG Inst. ID: msd10.i
Sample Info: 10080323B.b, SVMS 6580
Misc. Info: 3STD015
Method: \\Organics\HH\chem\msd10.i\10080323B.b\8270DLVI-10.m
Method Date: 03-Aug-2023 23:11:30 Quant Method: ISTD
Calib Date: 03-Aug-2023 22:00:30 Calib File: 100803B20.D
Sample Type: Ical, Level: 6 ALS Bottle: 15
Cpnd Sublist: 3STD.sub
Matrix/Level: Soil/Low
Target 4.14 Integrator: falcon

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100)/Vi * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	5000.00	Volume of final extract (uL)(1000 low, 2000 med.
Ws	15.000	Weight of sample extracted (g)
M	0	% Moisture
Vi	5.0000	
Cpnd Variable		Local Cpnd Variable

Column1: ZebronZB-SV (0.25 mm) Detector: MS Scan
Data Reviewer: jcg Review Date: 03-Aug-2023 23:00:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 16 1,4-Dichlorobenzene-d4	152.0	5.965	5.965	0.000	239668	20.000	20.000	
199 Benzaldehyde	77.0	5.633	5.633	0.000	195562	15.000	14.533	
* 41 Naphthalene-d8	136.0	6.997	6.997	0.000	1057348	20.000	20.000	
44 4-Chloroaniline	127.0	7.034	7.034	0.000	320967	15.000	16.764	
196 Caprolactam	113.0	7.313	7.313	0.000	89751	15.000	16.663	
* 67 Acenaphthene-d10	164.0	8.479	8.479	0.000	533288	20.000	20.000	
200 Atrazine	200.0	9.420	9.420	0.000	93311	15.000	15.963	
* 102 Phenanthrene-d10	188.0	9.752	9.752	0.000	685367	20.000	20.000	
115 Benzidine	184.0	10.976	10.976	0.000	833645	75.000	89.980	
125 3,3'-Dichlorobenzidine	252.0	12.565	12.565	0.000	62729	15.000	16.049	
* 128 Chrysene-d12	240.0	12.667	12.667	0.000	243436	20.000	20.000	
* 136 Perylene-d12	264.0	14.972	14.972	0.000	174045	20.000	20.000	
60 2-Nitroaniline	138.0	8.072	8.072	0.000	153690	15.000	15.914	
66 3-Nitroaniline	138.0	8.420	8.420	0.000	108440	15.000	16.250	
83 4-Nitroaniline	138.0	8.944	8.944	0.000	93232	15.000	16.068	

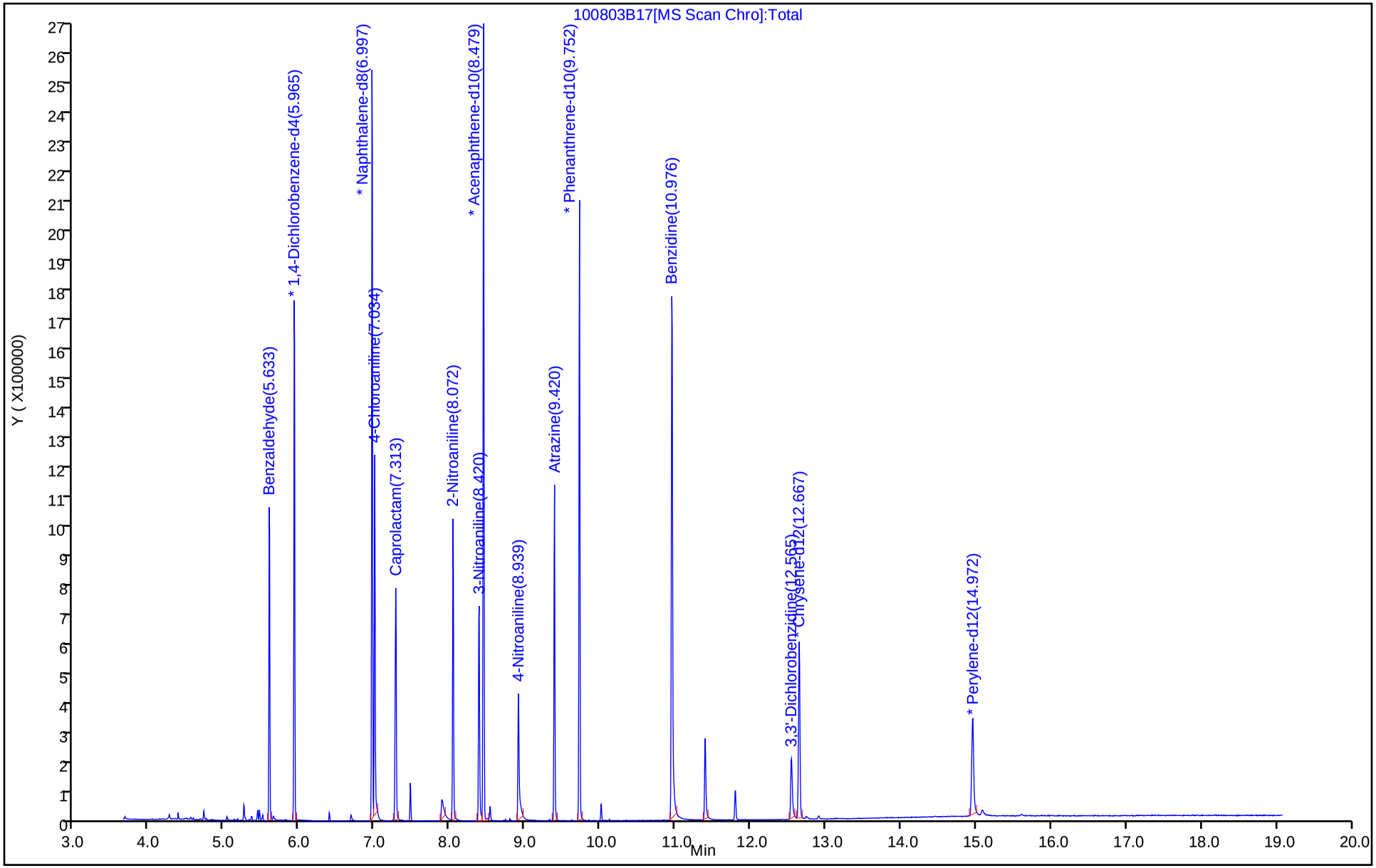
Compound Type Legend
* - ISTD

QC Flag Legend
Processing Flags
Review Flags

Report Date: 03-Aug-2023 23:11:55 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

Data File:	\\Organics\HH\chem\msd10.i\10080323B.b\100803B17.D				
Injection Date:	03-Aug-2023 20:46:30	Inst. ID:	msd10.i	Operator:	JCG
Client ID:		Lab ID:	SVMS 6580		
Sample Info:	10080323B.b, SVMS 6580				
Injection Vol.	5.00	Dil. Factor:	1.0		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan		



Pace Environmental Services, LLC

Resolution Report

Data File:	\\Organics\HH\chem\msd10.i\10080323B.b\100803B17.D		
Injection Date:	03-Aug-2023 20:46:30	Inst. ID:	msd10.i
Client ID:		Lab ID:	SVMS 6580
Sample Info:	10080323B.b, SVMS 6580		
Injection Vol.	5.00	Dil. Factor:	1.0
Operator:	JCG		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan

134 Benzo(k)fluoranthene @ 0.000 - 132 Benzo(b)fluoranthene @ 0.000

SW-846 Method
Version D

%Valley = (V / ((H1 + H2)/2)) * 100

V (Valley Height) = 0
H1(134 Benzo(k)fluoranthen) = 0
H2(132 Benzo(b)fluoranthen) = 0

%Valley = 0 <= 50
Passed

Pace Environmental Services, LLC
Target Compound Quantitation Report

Data File: \\Organics\HH\chem\msd10.i\10080323B.b\100803B18.D
Lab Sample ID: SVMS 6581 Client Sample ID:
Injection Date: 03-Aug-2023 21:10:30 Dil. Factor: 1.0
Operator: JCG Inst. ID: msd10.i
Sample Info: 10080323B.b, SVMS 6581
Misc. Info: 3STD020
Method: \\Organics\HH\chem\msd10.i\10080323B.b\8270DLVI-10.m
Method Date: 03-Aug-2023 23:11:30 Quant Method: ISTD
Calib Date: 03-Aug-2023 22:00:30 Calib File: 100803B20.D
Sample Type: Ical, Level: 7 ALS Bottle: 16
Cpnd Sublist: 3STD.sub
Matrix/Level: Soil/Low
Target 4.14 Integrator: falcon

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100)/Vi * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	5000.00	Volume of final extract (uL)(1000 low, 2000 med.
Ws	15.000	Weight of sample extracted (g)
M	0	% Moisture
Vi	5.0000	
Cpnd Variable		Local Cpnd Variable

Column1: ZebronZB-SV (0.25 mm) Detector: MS Scan
Data Reviewer: jcg Review Date: 03-Aug-2023 23:00:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 16 1,4-Dichlorobenzene-d4	152.0	5.965	5.965	0.000	227065	20.000	20.000	
199 Benzaldehyde	77.0	5.633	5.633	0.000	249243	20.000	19.550	
* 41 Naphthalene-d8	136.0	6.997	6.997	0.000	1023096	20.000	20.000	
44 4-Chloroaniline	127.0	7.035	7.035	0.000	423334	20.000	22.850	
196 Caprolactam	113.0	7.318	7.318	0.000	113699	20.000	21.816	
* 67 Acenaphthene-d10	164.0	8.479	8.479	0.000	517520	20.000	20.000	
200 Atrazine	200.0	9.420	9.420	0.000	121009	20.000	21.442	
* 102 Phenanthrene-d10	188.0	9.752	9.752	0.000	661719	20.000	20.000	
115 Benzidine	184.0	10.982	10.982	0.000	1284591	100.00	133.99	
125 3,3'-Dichlorobenzidine	252.0	12.565	12.565	0.000	91376	20.000	22.592	
* 128 Chrysene-d12	240.0	12.667	12.667	0.000	251910	20.000	20.000	
* 136 Perylene-d12	264.0	14.967	14.967	0.000	185144	20.000	20.000	
60 2-Nitroaniline	138.0	8.078	8.078	0.000	197958	20.000	21.122	
66 3-Nitroaniline	138.0	8.420	8.420	0.000	141686	20.000	21.879	
83 4-Nitroaniline	138.0	8.944	8.944	0.000	120069	20.000	21.324	

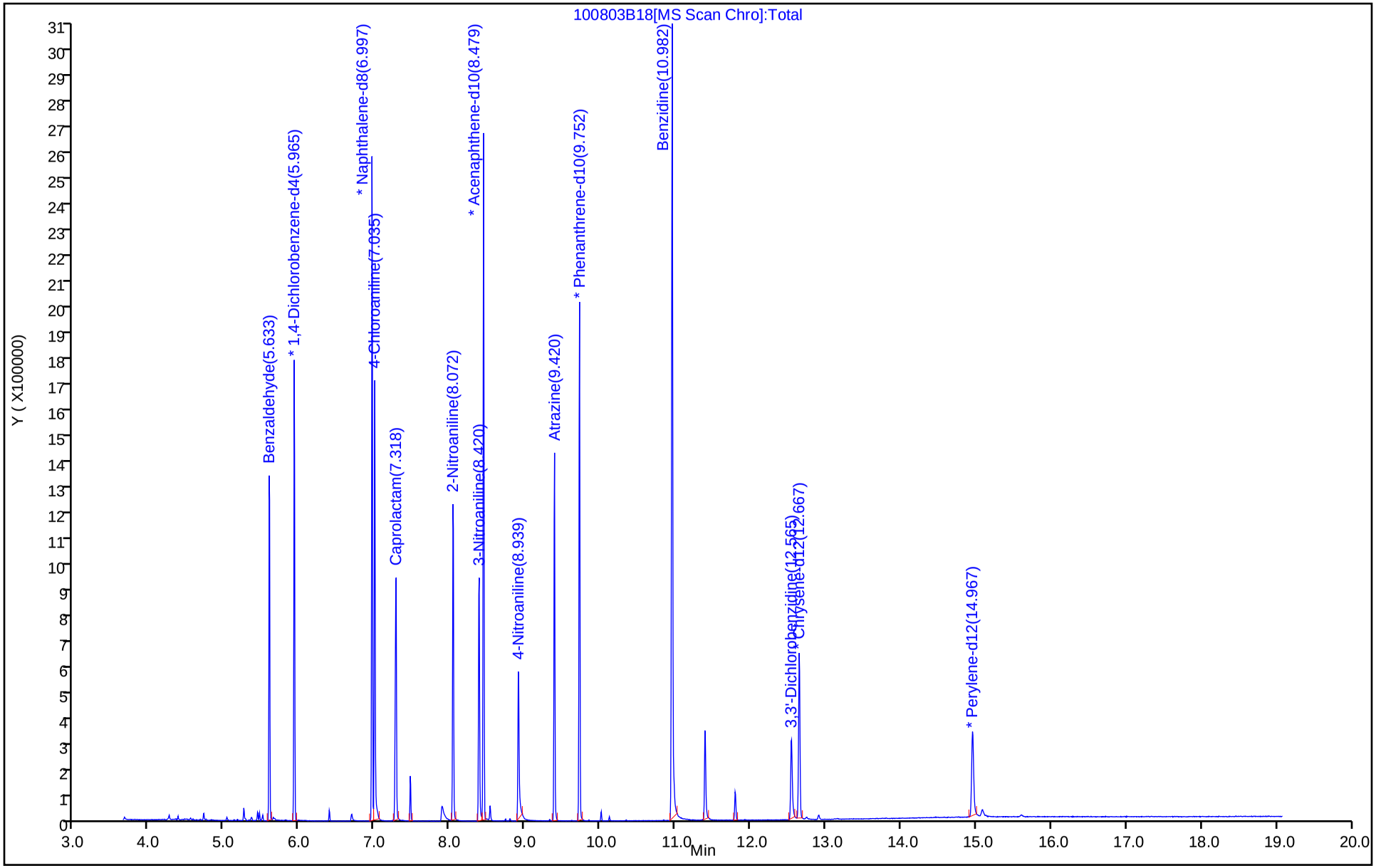
Compound Type Legend
* - ISTD

QC Flag Legend
Processing Flags
Review Flags

Report Date: 03-Aug-2023 23:11:55 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

Data File:	\\Organics\HH\chem\msd10.i\10080323B.b\100803B18.D				
Injection Date:	03-Aug-2023 21:10:30	Inst. ID:	msd10.i	Operator:	JCG
Client ID:		Lab ID:	SVMS 6581		
Sample Info:	10080323B.b, SVMS 6581				
Injection Vol.	5.00	Dil. Factor:	1.0		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan		



Report Date: 03-Aug-2023 23:11:55 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

Resolution Report

Data File:	\\Organics\HH\chem\msd10.i\10080323B.b\100803B18.D		
Injection Date:	03-Aug-2023 21:10:30	Inst. ID:	msd10.i
Client ID:		Lab ID:	SVMS 6581
Sample Info:	10080323B.b, SVMS 6581		
Injection Vol.	5.00	Dil. Factor:	1.0
Operator:	JCG		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan

134 Benzo(k)fluoranthene @ 0.000 - 132 Benzo(b)fluoranthene @ 0.000

SW-846 Method
Version D

%Valley = (V / ((H1 + H2)/2)) * 100

V (Valley Height) = 0
H1(134 Benzo(k)fluoranthen) = 0
H2(132 Benzo(b)fluoranthen) = 0

%Valley = 0 <= 50
Passed

Pace Environmental Services, LLC
Target Compound Quantitation Report

Data File: \\Organics\HH\chem\msd10.i\10080323B.b\100803B19.D
Lab Sample ID: SVMS 6582 Client Sample ID:
Injection Date: 03-Aug-2023 21:35:30 Dil. Factor: 1.0
Operator: JCG Inst. ID: msd10.i
Sample Info: 10080323B.b, SVMS 6582
Misc. Info: 3STD025
Method: \\Organics\HH\chem\msd10.i\10080323B.b\8270DLVI-10.m
Method Date: 03-Aug-2023 23:11:30 Quant Method: ISTD
Calib Date: 03-Aug-2023 22:00:30 Calib File: 100803B20.D
Sample Type: Ical, Level: 8 ALS Bottle: 17
Cpnd Sublist: 3STD.sub
Matrix/Level: Soil/Low
Target 4.14 Integrator: falcon

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100)/Vi * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	5000.00	Volume of final extract (uL)(1000 low, 2000 med.
Ws	15.000	Weight of sample extracted (g)
M	0	% Moisture
Vi	5.0000	
Cpnd Variable		Local Cpnd Variable

Column1: ZebronZB-SV (0.25 mm) Detector: MS Scan
Data Reviewer: jcg Review Date: 03-Aug-2023 23:00:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 16 1,4-Dichlorobenzene-d4	152.0	5.965	5.965	0.000	195853	20.000	20.000	
199 Benzaldehyde	77.0	5.639	5.639	0.000	288429	25.000	26.229	
* 41 Naphthalene-d8	136.0	6.997	6.997	0.000	1016629	20.000	20.000	
44 4-Chloroaniline	127.0	7.035	7.035	0.000	525301	25.000	28.535	
196 Caprolactam	113.0	7.318	7.318	0.000	141473	25.000	27.318	
* 67 Acenaphthene-d10	164.0	8.479	8.479	0.000	509722	20.000	20.000	
200 Atrazine	200.0	9.420	9.420	0.000	145449	25.000	26.777	
* 102 Phenanthrene-d10	188.0	9.752	9.752	0.000	636873	20.000	20.000	
115 Benzidine	184.0	10.982	10.982	0.000	1485128	125.00	175.08	
125 3,3'-Dichlorobenzidine	252.0	12.565	12.565	0.000	103428	25.000	28.902	
* 128 Chrysene-d12	240.0	12.667	12.667	0.000	222888	20.000	20.000	
* 136 Perylene-d12	264.0	14.967	14.967	0.000	162620	20.000	20.000	
60 2-Nitroaniline	138.0	8.078	8.078	0.000	249381	25.000	27.016	
66 3-Nitroaniline	138.0	8.420	8.420	0.000	170228	25.000	26.688	
83 4-Nitroaniline	138.0	8.944	8.944	0.000	145434	25.000	26.224	

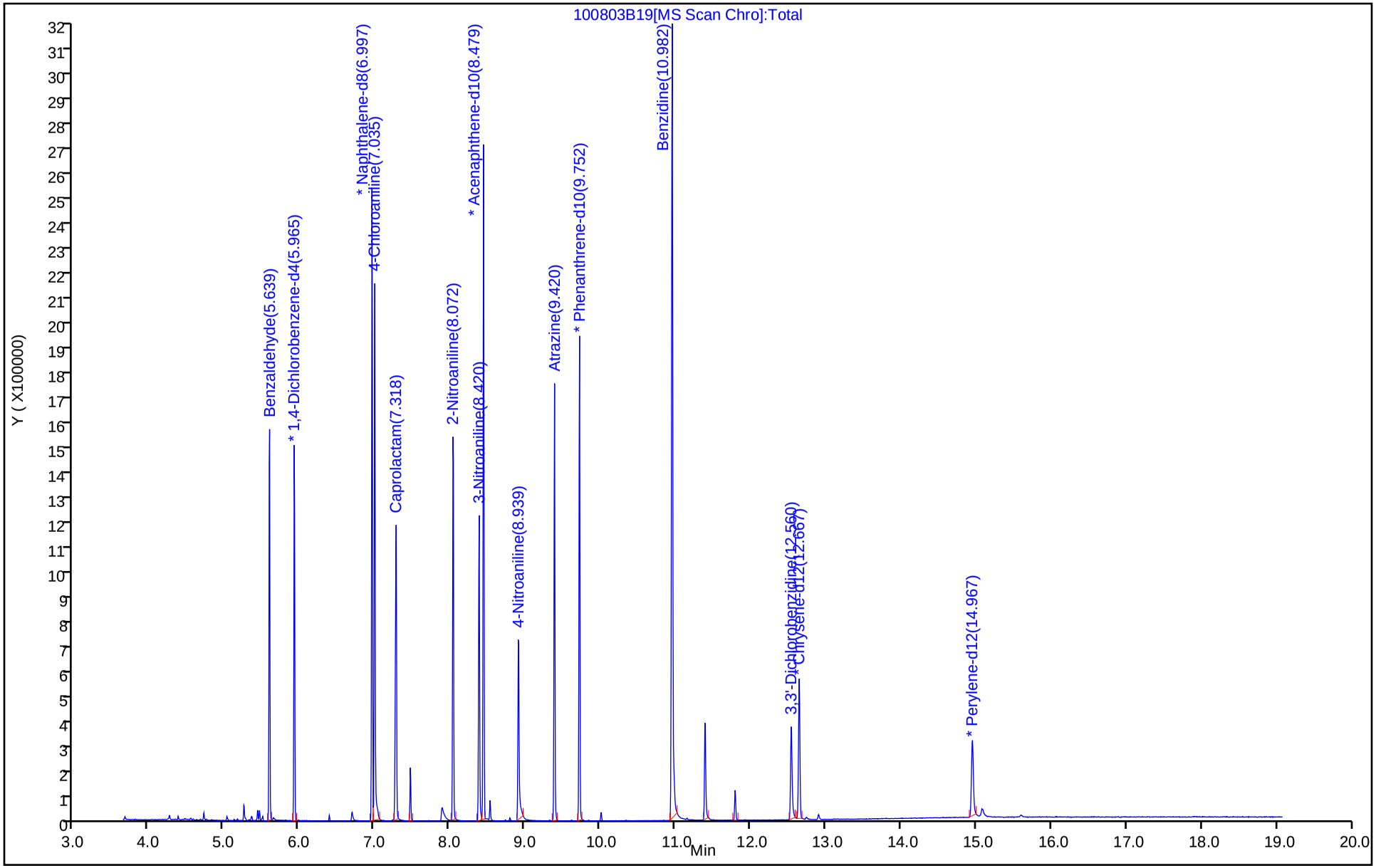
Compound Type Legend
* - ISTD

QC Flag Legend
Processing Flags
Review Flags

Report Date: 03-Aug-2023 23:11:55 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

Data File:	\\Organics\HH\chem\msd10.i\10080323B.b\100803B19.D				
Injection Date:	03-Aug-2023 21:35:30	Inst. ID:	msd10.i	Operator:	JCG
Client ID:		Lab ID:	SVMS 6582		
Sample Info:	10080323B.b, SVMS 6582				
Injection Vol.	5.00	Dil. Factor:	1.0		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan		



Report Date: 03-Aug-2023 23:11:55 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

Resolution Report

Data File:	\\Organics\HH\chem\msd10.i\10080323B.b\100803B19.D		
Injection Date:	03-Aug-2023 21:35:30	Inst. ID:	msd10.i
Client ID:		Lab ID:	SVMS 6582
Sample Info:	10080323B.b, SVMS 6582		
Injection Vol.	5.00	Dil. Factor:	1.0
Operator:	JCG		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan

134 Benzo(k)fluoranthene @ 0.000 - 132 Benzo(b)fluoranthene @ 0.000

SW-846 Method
Version D

%Valley = (V / ((H1 + H2)/2)) * 100

V (Valley Height) = 0
H1(134 Benzo(k)fluoranthen) = 0
H2(132 Benzo(b)fluoranthen) = 0

%Valley = 0 <= 50
Passed

Pace Environmental Services, LLC
Target Compound Quantitation Report

Data File: \\Organics\HH\chem\msd10.i\10080323B.b\100803B20.D
Lab Sample ID: SVMS 6583 Client Sample ID:
Injection Date: 03-Aug-2023 22:00:30 Dil. Factor: 1.0
Operator: JCG Inst. ID: msd10.i
Sample Info: 10080323B.b, SVMS 6583
Misc. Info: 3STD030
Method: \\Organics\HH\chem\msd10.i\10080323B.b\8270DLVI-10.m
Method Date: 03-Aug-2023 23:11:30 Quant Method: ISTD
Calib Date: 03-Aug-2023 22:00:30 Calib File: 100803B20.D
Sample Type: Ical, Level: 9 ALS Bottle: 18
Cpnd Sublist: 3STD.sub
Matrix/Level: Soil/Low
Target 4.14 Integrator: falcon

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100)/Vi * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	5000.00	Volume of final extract (uL)(1000 low, 2000 med.
Ws	15.000	Weight of sample extracted (g)
M	0	% Moisture
Vi	5.0000	
Cpnd Variable		Local Cpnd Variable

Column1: ZebronZB-SV (0.25 mm) Detector: MS Scan
Data Reviewer: jcg Review Date: 03-Aug-2023 23:00:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 16 1,4-Dichlorobenzene-d4	152.0	5.965	5.965	0.000	172357	20.000	20.000	
199 Benzaldehyde	77.0	5.639	5.639	0.000	328511	30.000	33.946	
* 41 Naphthalene-d8	136.0	6.997	6.997	0.000	1005389	20.000	20.000	
44 4-Chloroaniline	127.0	7.035	7.035	0.000	650165	30.000	35.712	
196 Caprolactam	113.0	7.318	7.318	0.000	167962	30.000	32.795	
* 67 Acenaphthene-d10	164.0	8.479	8.479	0.000	504302	20.000	20.000	
200 Atrazine	200.0	9.420	9.420	0.000	169079	30.000	31.888	
* 102 Phenanthrene-d10	188.0	9.752	9.752	0.000	621687	20.000	20.000	
115 Benzidine	184.0	10.982	10.982	0.000	1817861	150.00	217.00	
125 3,3'-Dichlorobenzidine	252.0	12.565	12.565	0.000	122801	30.000	34.748	
* 128 Chrysene-d12	240.0	12.667	12.667	0.000	220112	20.000	20.000	
* 136 Perylene-d12	264.0	14.967	14.967	0.000	164492	20.000	20.000	
60 2-Nitroaniline	138.0	8.078	8.078	0.000	297477	30.000	32.572	
66 3-Nitroaniline	138.0	8.420	8.420	0.000	205832	30.000	32.617	
83 4-Nitroaniline	138.0	8.944	8.944	0.000	176639	30.000	32.193	

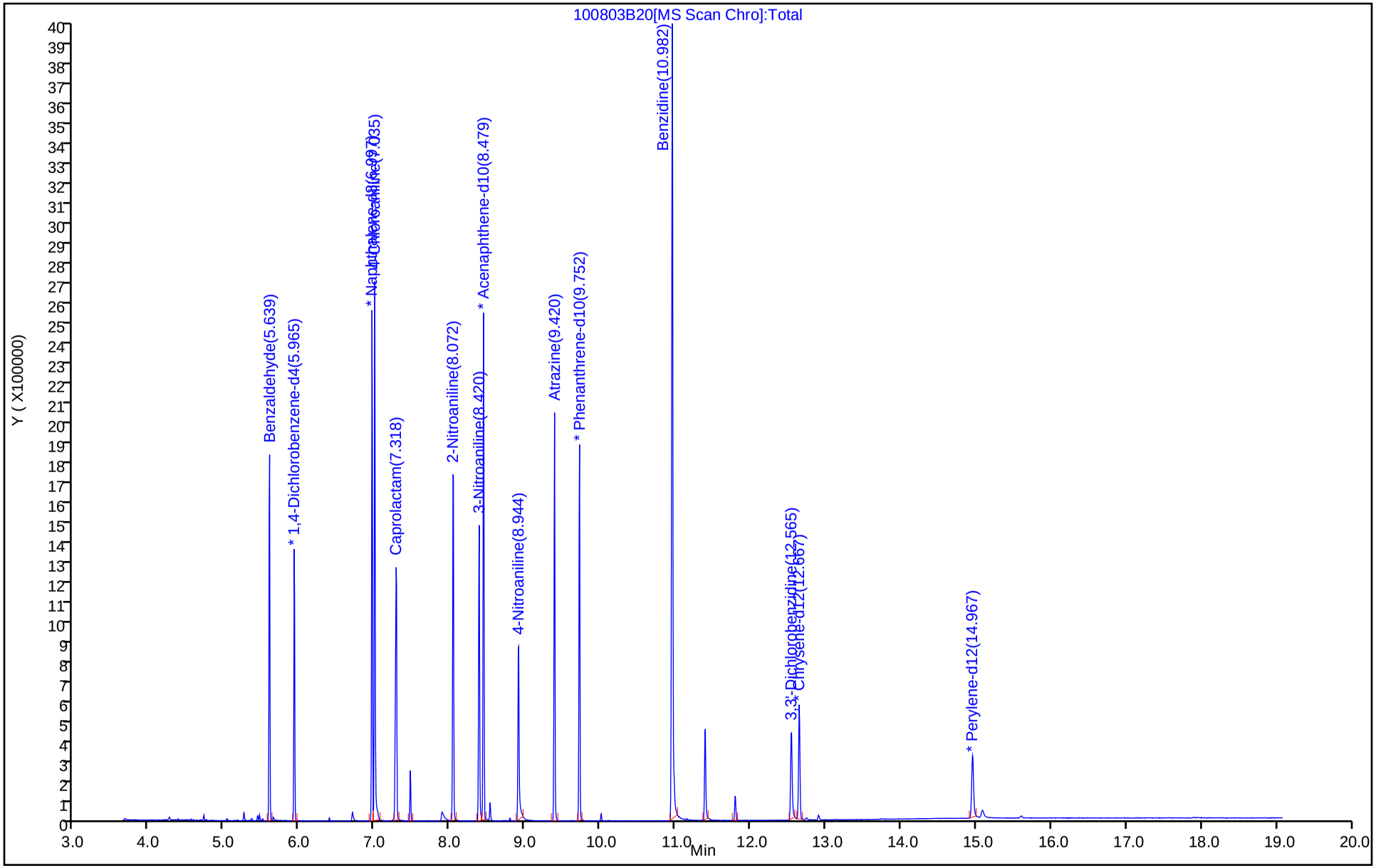
Compound Type Legend
* - ISTD

QC Flag Legend
Processing Flags
Review Flags

Report Date: 03-Aug-2023 23:11:55 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

Data File:	\\Organics\HH\chem\msd10.i\10080323B.b\100803B20.D				
Injection Date:	03-Aug-2023 22:00:30	Inst. ID:	msd10.i	Operator:	JCG
Client ID:		Lab ID:	SVMS 6583		
Sample Info:	10080323B.b, SVMS 6583				
Injection Vol.	5.00	Dil. Factor:	1.0		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan		



Pace Environmental Services, LLC

Resolution Report

Data File:	\\Organics\HH\chem\msd10.i\10080323B.b\100803B20.D		
Injection Date:	03-Aug-2023 22:00:30	Inst. ID:	msd10.i
Client ID:		Lab ID:	SVMS 6583
Sample Info:	10080323B.b, SVMS 6583		
Injection Vol.	5.00	Dil. Factor:	1.0
Operator:	JCG		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan

134 Benzo(k)fluoranthene @ 0.000 - 132 Benzo(b)fluoranthene @ 0.000

SW-846 Method
Version D

%Valley = (V / ((H1 + H2)/2)) * 100

V (Valley Height) = 0
H1(134 Benzo(k)fluoranthen) = 0
H2(132 Benzo(b)fluoranthen) = 0

%Valley = 0 <= 50
Passed

Pace Environmental Services, LLC
LCS, Lab Control Spike Report

Data File: \\Organics\HH\chem\msd10.i\10080323B.b\100803B12.D
Lab Sample ID: SVMS 6682 Client Sample ID: 1STDICV
Injection Date: 03-Aug-2023 18:42:30 Dil. Factor: 1.0
Operator: JCG Inst. ID: msd10.i
Sample Info: 10080323B.b, SVMS 6682
Misc. Info: 1STDICV
Method: \\Organics\HH\chem\msd10.i\10080323B.b\8270DLVI-10.m
Method Date: 04-Aug-2023 08:49:30 Quant Method: ISTD
Calib Date: 03-Aug-2023 22:00:30 Calib File: 100803B20.D
Sample Type: LCS ALS Bottle: 10
Cpnd Sublist: 1STD.sub Spike List File: ICV1DOD.spk
Matrix/Level: Soil/Low
Target 4.14 Integrator: falcon

Compound	Amount Added	Amount Detected	%Drift	%Rec	%Rec Limits
1 pyridine	666.67	624.23	-6.4	93.6	80- 120
193 1,4-Dioxane	666.67	661.83	-0.7	99.3	80- 120
2 N-Nitrosodimethylamine	666.67	674.72	1.2	101	80- 120
10 Phenol	666.67	722.23	8.3	108	80- 120
11 Aniline	666.67	744.92	11.7	111	80- 120
12 bis(2-Chloroethyl)ether	666.67	741.4	11.2	111	80- 120
13 2-Chlorophenol	666.67	768	15.2	115	80- 120
14 1,3-Dichlorobenzene	666.67	654.83	-1.8	98.2	80- 120
17 1,4-Dichlorobenzene	666.67	661.53	-0.8	99.2	80- 120
18 Benzyl alcohol		* ND			
19 1,2-Dichlorobenzene	666.67	683.62	2.5	102	80- 120
20 o-Cresol	666.67	726.87	9	109	80- 120
21 bis(2Chloro1methylethyl)eth	666.67	743.55	11.5	111	80- 120
23 m+p-Cresol	666.67	736.51	10.5	110	80- 120
24 Acetophenone	666.67	752.04	12.8	112	80- 120
26 n-Nitroso-di-n-propylamine	666.67	752.16	12.8	112	80- 120
28 Hexachloroethane	666.67	665.86	-0.1	99.9	80- 120
30 Nitrobenzene	666.67	718.69	7.8	107	80- 120
32 Isophorone	666.67	717.1	7.6	107	80- 120
33 2-Nitrophenol	666.67	667.73	0.2	100	80- 120
34 2,4-Dimethylphenol	666.67	947.31	42.1	* 142	80- 120
35 bis(2-Chloroethoxy)methane	666.67	693.01	4	103	80- 120
36 Benzoic acid	1333.33	1262.1	-5.3	94.7	80- 120
38 2,4-Dichlorophenol	666.67	685.52	2.8	102	80- 120
40 1,2,4-Trichlorobenzene	666.67	693.96	4.1	104	80- 120
43 Naphthalene	666.67	669.4	0.4	100	80- 120
45 2,6-Dichlorophenol	666.67	664.5	-0.3	99.7	80- 120
47 Hexachlorobutadiene	666.67	708.89	6.3	106	80- 120
49 4-Chloro-3-methylphenol	666.67	697.34	4.6	104	80- 120
51 2-Methylnaphthalene	666.67	682.26	2.3	102	80- 120
52 1,2,4,5-Tetrachlorobenzene	666.67	666.42	0	100	80- 120
53 Hexachlorocyclopentadiene	3333.33	2701.76	-18.9	81.1	80- 120
54 2,4,6-Trichlorophenol	666.67	681.57	2.2	102	80- 120
55 2,4,5-Trichlorophenol	666.67	678.04	1.7	101	80- 120

Compound	Amount Added	Amount Detected	%Drift	%Rec	%Rec Limits
58 2-Chloronaphthalene	666.67	673.45	1	101	80- 120
62 Dimethylphthalate	666.67	734.54	10.2	110	80- 120
64 Acenaphthylene	666.67	713.91	7.1	107	80- 120
65 2,6-Dinitrotoluene	666.67	716.06	7.4	107	80- 120
68 Acenaphthene	666.67	663.34	-0.5	99.5	80- 120
69 2,4-Dinitrophenol	1333.33	1250.76	-6.2	93.8	80- 120
70 4-Nitrophenol	1333.33	1181.79	-11.4	88.6	80- 120
71 Dibenzofuran	666.67	692.79	3.9	103	80- 120
73 2,4-Dinitrotoluene	666.67	730.19	9.5	109	80- 120
76 2,3,4,6-Tetrachlorophenol	666.67	628.78	-5.7	94.3	80- 120
78 Diethylphthalate	666.67	726.72	9	109	80- 120
79 Fluorene	666.67	701.37	5.2	105	80- 120
80 4-Chlorophenylphenylether	666.67	667.3	0.1	100	80- 120
84 4,6-Dinitro-2-methylphenol	666.67	665.53	-0.2	99.8	80- 120
86 n-Nitrosodiphenylamine	666.67	634.5	-4.8	95.2	80- 120
87 Azobenzene	666.67	685.95	2.9	102	80- 120
94 4-Bromophenylphenylether	666.67	679.38	1.9	101	80- 120
96 Hexachlorobenzene	666.67	694.25	4.1	104	80- 120
99 Pentachlorophenol	1333.33	1125.48	-15.6	84.4	80- 120
103 Phenanthrene	666.67	689.6	3.4	103	80- 120
104 Anthracene	666.67	727.96	9.2	109	80- 120
106 Carbazole	666.67	715.25	7.3	107	80- 120
109 Di-n-butylphthalate	666.67	763.38	14.5	114	80- 120
114 Fluoranthene	666.67	711.27	6.7	106	80- 120
116 Pyrene	666.67	707.19	6.1	106	80- 120
122 Butylbenzylphthalate	666.67	705.21	5.8	105	80- 120
127 Benzo(a)Anthracene	666.67	705.57	5.8	105	80- 120
129 Chrysene	666.67	673.29	1	100	80- 120
130 bis(2-Ethylhexyl)phthalate	666.67	678.94	1.8	101	80- 120
131 Di-n-octylphthalate	666.67	675.57	1.3	101	80- 120
132 Benzo(b)fluoranthene	666.67	678.61	1.8	101	80- 120
134 Benzo(k)fluoranthene	666.67	667.09	0.1	100	80- 120
135 Benzo(a)pyrene	666.67	732.44	9.9	109	80- 120
138 Indeno(1,2,3-c,d)pyrene	666.67	633.55	-5	95	80- 120
139 Dibenzo(a,h)anthracene	666.67	638.34	-4.2	95.8	80- 120
140 Benzo(g,h,i)perylene	666.67	692.44	3.9	103	80- 120
184 Biphenyl	666.67	675.6	1.3	101	80- 120
201 n-Decane	666.67	682.74	2.4	102	80- 120
202 Octadecane	666.67	665.29	-0.2	99.8	80- 120
204 1-Methylnaphthalene	666.67	624.53	-6.3	93.7	80- 120

Pace Environmental Services, LLC
Target Compound Quantitation Report

Data File: \\Organics\HH\chem\msd10.i\10080323B.b\100803B12.D
Lab Sample ID: SVMS 6682 Client Sample ID: 1STDICV
Injection Date: 03-Aug-2023 18:42:30 Dil. Factor: 1.0
Operator: JCG Inst. ID: msd10.i
Sample Info: 10080323B.b, SVMS 6682
Misc. Info: 1STDICV
Method: \\Organics\HH\chem\msd10.i\10080323B.b\8270DLVI-10.m
Method Date: 04-Aug-2023 08:49:30 Quant Method: ISTD
Calib Date: 03-Aug-2023 22:00:30 Calib File: 100803B20.D
Sample Type: LCS ALS Bottle: 10
Cpnd Sublist: 1STD.sub Spike List File: ICV1DOD.spk
Matrix/Level: Soil/Low
Target 4.14 Integrator: falcon

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100)/Vi * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	5000.00	Volume of final extract (uL)(1000 low, 2000 med.
Ws	15.000	Weight of sample extracted (g)
M	0	% Moisture
Vi	5.0000	
Cpnd Variable		Local Cpnd Variable

Column1: ZebronZB-SV (0.25 mm) Detector: MS Scan
Data Reviewer: jcg Review Date: 03-Aug-2023 23:05:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Final Conc ug/Kg	Flags
193 1,4-Dioxane	58.0	3.874	3.884	-0.010	20544	9.9275	661.83	
2 N-Nitrosodimethylamine	42.0	4.071	4.087	-0.015	87329	10.121	674.72	
1 pyridine	79.0	4.130	4.141	-0.009	66511	9.3634	624.23	
$ 6 2-Fluorophenol	112.0	4.981	4.986	-0.004	163366	11.071	738.04	
$ 9 Phenol-d5	99.0	5.623	5.628	-0.004	202244	10.294	686.25	
10 Phenol	94.0	5.633	5.638	-0.004	216827	10.834	722.23	
11 Aniline	66.0	5.633	5.638	-0.004	88469	11.174	744.92	
12 bis(2-Chloroethyl)ether	63.0	5.719	5.724	-0.005	157724	11.121	741.40	
201 n-Decane	57.0	5.772	5.778	-0.004	174106	10.241	682.74	
13 2-Chlorophenol	128.0	5.804	5.810	-0.004	168153	11.520	768.00	
14 1,3-Dichlorobenzene	146.0	5.927	5.933	-0.004	138210	9.8225	654.83	
* 16 1,4-Dichlorobenzene-d4	152.0	5.965	5.970	-0.005	196127	20.000	20.000	
17 1,4-Dichlorobenzene	146.0	5.981	5.986	-0.005	152549	9.9230	661.53	
18 Benzyl alcohol	79.0		6.051		ND			
20 o-Cresol	108.0	6.104	6.109	-0.005	166388	10.903	726.87	
19 1,2-Dichlorobenzene	146.0	6.104	6.109	-0.005	150904	10.254	683.62	
21 bis(2Chloro1methylethyl)ether	45.0	6.131	6.131	0.000	372769	11.153	743.55	
23 m+p-Cresol	107.0	6.222	6.227	-0.004	176556	11.048	736.51	
26 n-Nitroso-di-n-propylamine	70.0	6.238	6.248	-0.010	145630	11.282	752.16	
24 Acetophenone	105.0	6.264	6.270	-0.004	235109	11.281	752.04	
28 Hexachloroethane	117.0	6.382	6.382	0.001	55289	9.9879	665.86	
$ 29 Nitrobenzene-d5	82.0	6.398	6.403	-0.004	208323	11.317	754.47	

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Final Conc ug/Kg	Flags
30 Nitrobenzene	77.0	6.414	6.419	-0.004	195389	10.780	718.69	
32 Isophorone	82.0	6.591	6.596	-0.004	354169	10.757	717.10	
34 2,4-Dimethylphenol	107.0	6.655	6.660	-0.005	147501	14.210	947.31	QR
33 2-Nitrophenol	139.0	6.671	6.676	-0.005	83189	10.016	667.73	
35 bis(2-Chloroethoxy)methane	93.0	6.730	6.735	-0.004	224553	10.395	693.01	
36 Benzoic acid	105.0	6.714	6.762	-0.047	220455	18.932	1262.10	e
38 2,4-Dichlorophenol	162.0	6.863	6.869	-0.004	115469	10.283	685.52	
45 2,6-Dichlorophenol	162.0	7.045	7.051	-0.004	107705	9.9675	664.50	
40 1,2,4-Trichlorobenzene	180.0	6.938	6.938	0.000	123058	10.409	693.96	
* 41 Naphthalene-d8	136.0	6.997	7.002	-0.004	948105	20.000	20.000	
43 Naphthalene	128.0	7.019	7.024	-0.004	521873	10.041	669.40	
47 Hexachlorobutadiene	224.6	7.088	7.093	-0.004	62910	10.633	708.89	
49 4-Chloro-3-methylphenol	107.0	7.414	7.409	0.006	132058	10.460	697.34	
51 2-Methylnaphthalene	142.0	7.586	7.591	-0.004	304497	10.234	682.26	
204 1-Methylnaphthalene	142.0	7.671	7.676	-0.004	282035	9.3680	624.53	
53 Hexachlorocyclopentadiene	237.0	7.709	7.714	-0.004	287608	40.526	2701.76	E
52 1,2,4,5-Tetrachlorobenzene	216.0	7.725	7.730	-0.004	109546	9.996	666.42	
54 2,4,6-Trichlorophenol	196.0	7.805	7.810	-0.005	62114	10.224	681.57	
55 2,4,5-Trichlorophenol	196.0	7.848	7.847	0.000	66192	10.171	678.04	
$ 56 2-Fluorobiphenyl	172.0	7.869	7.874	-0.005	310201	10.397	693.16	
184 Biphenyl	154.0	7.965	7.970	-0.004	338638	10.134	675.60	
58 2-Chloronaphthalene	162.0	8.003	8.008	-0.004	248633	10.102	673.45	
63 m-Dinitrobenzene	168.0	8.243	8.249	-0.004	38259	10.289	685.94	
62 Dimethylphthalate	163.0	8.185	8.190	-0.004	250325	11.018	734.54	
65 2,6-Dinitrotoluene	165.0	8.254	8.259	-0.004	59423	10.741	716.06	
64 Acenaphthylene	152.0	8.366	8.366	0.000	358588	10.709	713.91	
* 67 Acenaphthene-d10	164.0	8.479	8.479	0.000	441098	20.000	20.000	
69 2,4-Dinitrophenol	184.0	8.500	8.505	-0.004	55423	18.761	1250.76	
68 Acenaphthene	153.0	8.505	8.511	-0.004	263026	9.9501	663.34	
70 4-Nitrophenol	109.0	8.543	8.532	0.010	38657	17.727	1181.79	QM
73 2,4-Dinitrotoluene	165.0	8.602	8.607	-0.004	68836	10.953	730.19	
71 Dibenzofuran	168.0	8.650	8.655	-0.005	323979	10.392	692.79	
76 2,3,4,6-Tetrachlorophenol	232.0	8.741	8.746	-0.005	41163	9.4317	628.78	
78 Diethylphthalate	149.0	8.768	8.773	-0.004	230559	10.901	726.72	
80 4-Chlorophenylphenylether	204.0	8.907	8.912	-0.004	109536	10.010	667.30	
79 Fluorene	166.0	8.944	8.944	0.001	264746	10.521	701.37	
84 4,6-Dinitro-2-methylphenol	198.0	8.955	8.955	0.000	31227	9.9829	665.53	
86 n-Nitrosodiphenylamine	169.0	9.003	9.008	-0.005	151138	9.5175	634.50	
87 Azobenzene	77.0	9.046	9.046	0.000	299121	10.289	685.95	
$ 88 2,4,6-Tribromophenol	330.0	9.147	9.153	-0.004	16904	9.2563	617.09	
94 4-Bromophenylphenylether	248.0	9.329	9.334	-0.004	49639	10.191	679.38	
96 Hexachlorobenzene	284.0	9.415	9.415	0.000	44208	10.414	694.25	
202 Octadecane	57.0	9.516	9.522	-0.004	235534	9.9794	665.29	
99 Pentachlorophenol	266.0	9.575	9.575	0.000	43338	16.882	1125.48	
* 102 Phenanthrene-d10	188.0	9.752	9.752	0.000	529420	20.000	20.000	
103 Phenanthrene	178.0	9.773	9.773	0.001	287644	10.344	689.60	
104 Anthracene	178.0	9.816	9.821	-0.005	280449	10.919	727.96	
106 Carbazole	167.0	9.934	9.939	-0.004	254226	10.729	715.25	
109 Di-n-butylphthalate	149.0	10.148	10.147	0.000	300450	11.451	763.38	
114 Fluoranthene	202.0	10.886	10.885	0.000	231776	10.669	711.27	
116 Pyrene	202.0	11.142	11.142	0.000	233191	10.608	707.19	

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Final Conc ug/Kg	Flags
$ 117 Terphenyl-d14	244.0	11.233	11.238	-0.004	155474	11.324	754.93	
122 Butylbenzylphthalate	149.0	11.763	11.763	0.000	87260	10.578	705.21	
130 bis(2-Ethylhexyl)phthalate	149.0	12.496	12.495	0.000	104464	10.184	678.94	
127 Benzo(a)Anthracene	228.0	12.651	12.651	0.000	157473	10.584	705.57	
* 128 Chrysene-d12	240.0	12.667	12.672	-0.004	234386	20.000	20.000	
129 Chrysene	228.0	12.710	12.709	0.000	151172	10.099	673.29	
131 Di-n-octylphthalate	149.0	13.490	13.490	0.000	169249	10.134	675.57	
132 Benzo(b)fluoranthene	252.0	14.314	14.319	-0.004	119896	10.179	678.61	
134 Benzo(k)fluoranthene	252.0	14.357	14.362	-0.005	130121	10.006	667.09	
135 Benzo(a)pyrene	252.0	14.870	14.876	-0.004	108570	10.987	732.44	
* 136 Perylene-d12	264.0	14.967	14.966	0.000	199869	20.000	20.000	
138 Indeno(1,2,3-c,d)pyrene	276.0	17.154	17.165	-0.009	129428	9.5032	633.55	
139 Dibenzo(a,h)anthracene	278.0	17.165	17.175	-0.010	109811	9.5750	638.34	
140 Benzo(g,h,i)perylene	276.0	17.823	17.828	-0.005	104064	10.387	692.44	

Compound Type Legend

$ - Surrogate

* - ISTD

QC Flag Legend

Processing Flags

e - Compound Concentration Below Quantitation Limit

E - Compound Concentration Exceeds Max. Calibration Range

Q - Qualifier Signal(s) Fails Ratio Test

R - Spike/Surrogte Fails %Recovery Test

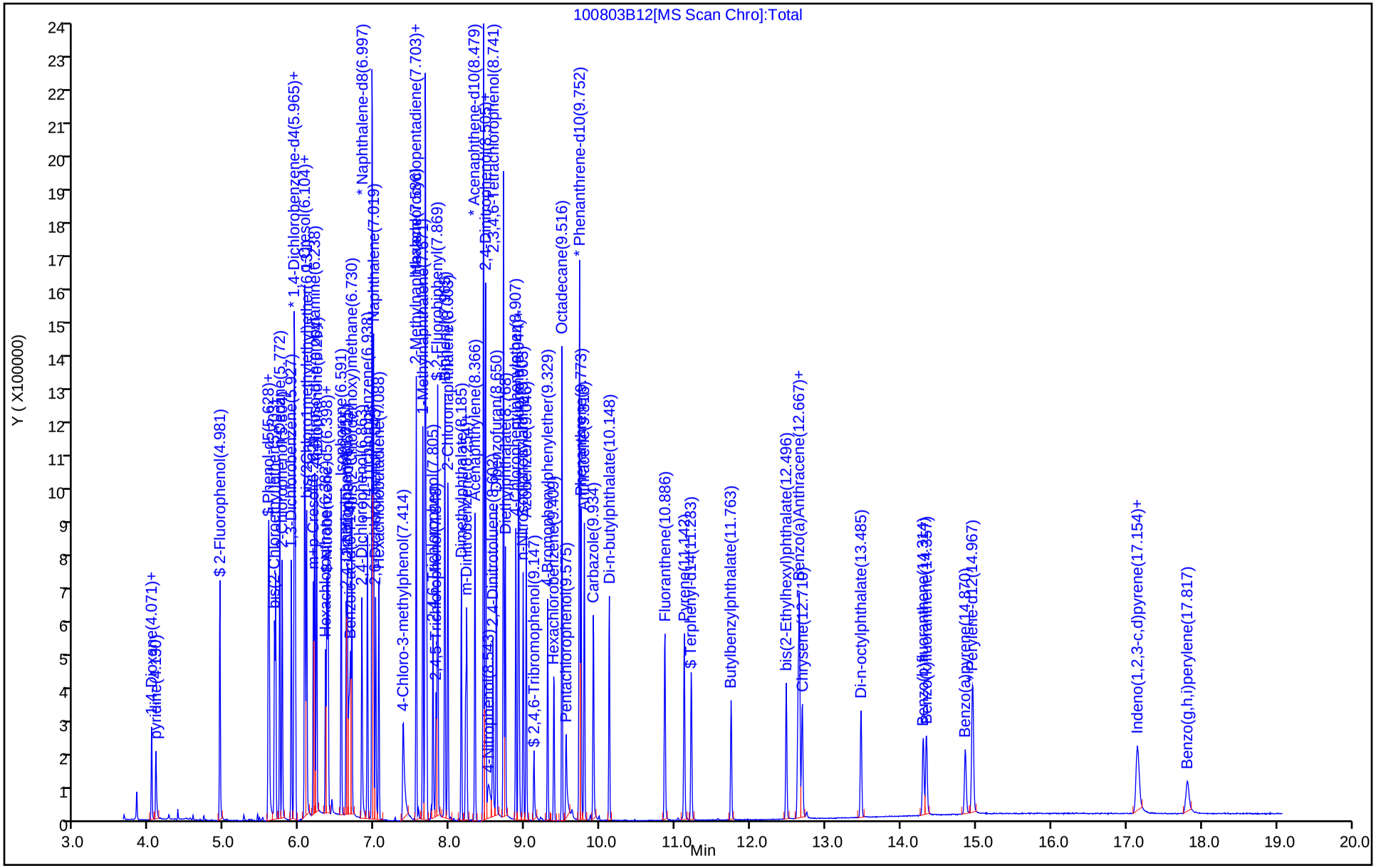
Review Flags

M - Compound Hit/Peak Manually Integrated

Report Date: 04-Aug-2023 08:50:16 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

Data File:	\\Organics\HH\chem\msd10.i\10080323B.b\100803B12.D				
Injection Date:	03-Aug-2023 18:42:30	Inst. ID:	msd10.i	Operator:	JCG
Client ID:	1STDICV	Lab ID:	SVMS 6682		
Sample Info:	10080323B.b, SVMS 6682				
Injection Vol.	5.00	Dil. Factor:	1.0		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan		



Report Date: 04-Aug-2023 08:50:16 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

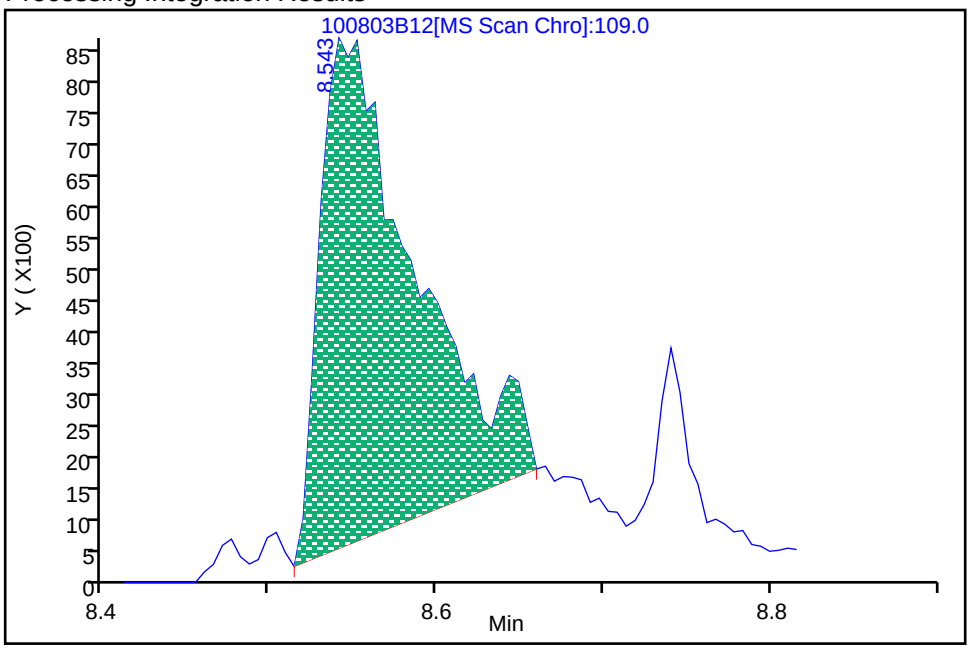
Manual Integration Report

Data File:	\\Organics\HH\chem\msd10.i\10080323B.b\100803B12.D		
Injection Date:	03-Aug-2023 18:42:30	Inst. ID:	msd10.i
Client ID:	1STDICV	Lab ID:	SVMS 6682
Sample Info:	10080323B.b, SVMS 6682		
Injection Vol.	5.00	Dil. Factor:	1.0
Operator:	JCG		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan

70 4-Nitrophenol, CAS: 100-02-7

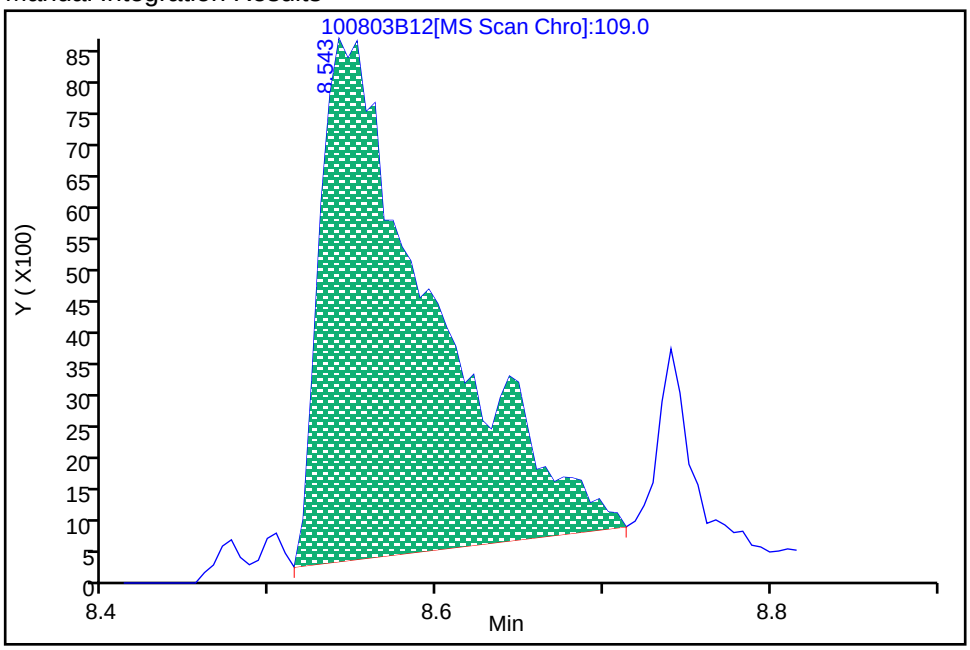
Processing Integration Results

RT: 8.543
Area: 31849
Conc: 973.66
Conc Units: ug/Kg
Conc:



Manual Integration Results

RT: 8.543
Area: 38657
Conc: 1181.79
Conc Units: ug/Kg



Data Editor: jcg, 03-Aug-2023 23:05:30
Audit Action: Mint
Audit Reason: M-03, Incorrect Auto Integration

Report Date: 04-Aug-2023 08:50:17 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

Resolution Report

Data File:	\\Organics\HH\chem\msd10.i\10080323B.b\100803B12.D		
Injection Date:	03-Aug-2023 18:42:30	Inst. ID:	msd10.i
Client ID:	1STDICV	Lab ID:	SVMS 6682
Sample Info:	10080323B.b, SVMS 6682		
Injection Vol.	5.00	Dil. Factor:	1.0
Operator:	JCG		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan

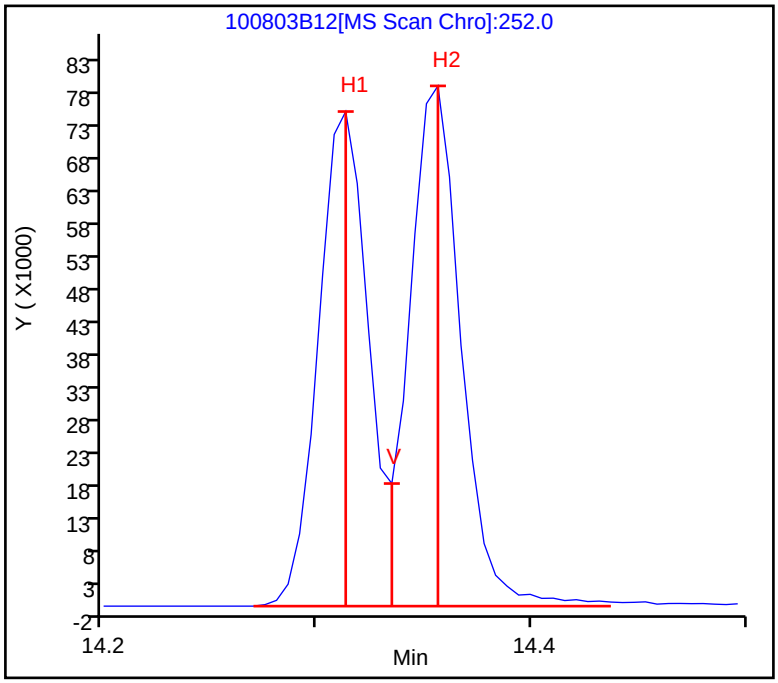
132 Benzo(b)fluoranthene @ 14.314 - 134 Benzo(k)fluoranthene @ 14.357

SW-846 Method
Version D

%Valley = (V / ((H1 + H2)/2)) * 100

V (Valley Height) = 18600
H1(132 Benzo(b)fluoranthen) = 75032
H2(134 Benzo(k)fluoranthen) = 78920

%Valley = 24 <= 50
Passed



Pace Environmental Services, LLC
LCS, Lab Control Spike Report

Data File: \\Organics\HH\chem\msd10.i\10080323B.b\100803B21.D
Lab Sample ID: SVMS 6584 Client Sample ID:
Injection Date: 03-Aug-2023 22:25:30 Dil. Factor: 1.0
Operator: JCG Inst. ID: msd10.i
Sample Info: 10080323B.b, SVMS 6584
Misc. Info: 3STDICV
Method: \\Organics\HH\chem\msd10.i\10080323B.b\8270DLVI-10.m
Method Date: 03-Aug-2023 23:11:30 Quant Method: ISTD
Calib Date: 03-Aug-2023 22:00:30 Calib File: 100803B20.D
Sample Type: LCS ALS Bottle: 19
Cpnd Sublist: 3STD.sub Spike List File: ICV2DOD.spk
Matrix/Level: Soil/Low
Target 4.14 Integrator: falcon

Compound	Amount Added	Amount Detected	%Drift	%Rec	%Rec Limits
196 Caprolactam	666.67	681.04	2.2	102	80- 120
44 4-Chloroaniline	666.67	704.89	5.7	105	80- 120
60 2-Nitroaniline	666.67	643.51	-3.5	96.5	80- 120
66 3-Nitroaniline	666.67	657.23	-1.4	98.6	80- 120
83 4-Nitroaniline	666.67	665.07	-0.2	99.8	80- 120
115 Benzidine	3333.33	3601.87	8.1	108	70- 130
125 3,3'-Dichlorobenzidine	666.67	645.18	-3.2	96.8	80- 120
199 Benzaldehyde	666.67	648.42	-2.7	97.3	80- 120
200 Atrazine	666.67	626.89	-6	94	80- 120

Pace Environmental Services, LLC
Target Compound Quantitation Report

Data File: \\Organics\HH\chem\msd10.i\10080323B.b\100803B21.D
Lab Sample ID: SVMS 6584 Client Sample ID:
Injection Date: 03-Aug-2023 22:25:30 Dil. Factor: 1.0
Operator: JCG Inst. ID: msd10.i
Sample Info: 10080323B.b, SVMS 6584
Misc. Info: 3STDICV
Method: \\Organics\HH\chem\msd10.i\10080323B.b\8270DLVI-10.m
Method Date: 03-Aug-2023 23:11:30 Quant Method: ISTD
Calib Date: 03-Aug-2023 22:00:30 Calib File: 100803B20.D
Sample Type: LCS ALS Bottle: 19
Cpnd Sublist: 3STD.sub Spike List File: ICV2DOD.spk
Matrix/Level: Soil/Low
Target 4.14 Integrator: falcon

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100)/Vi * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	5000.00	Volume of final extract (uL)(1000 low, 2000 med.
Ws	15.000	Weight of sample extracted (g)
M	0	% Moisture
Vi	5.0000	
Cpnd Variable		Local Cpnd Variable

Column1: ZebronZB-SV (0.25 mm) Detector: MS Scan
Data Reviewer: jcg Review Date: 03-Aug-2023 23:00:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Final Conc ug/Kg	Flags
* 16 1,4-Dichlorobenzene-d4	152.0	5.965	5.965	0.000	184743	20.000	20.000	
199 Benzaldehyde	77.0	5.633	5.639	-0.004	100889	9.7262	648.42	Q
* 41 Naphthalene-d8	136.0	6.997	6.997	0.000	999345	20.000	20.000	
44 4-Chloroaniline	127.0	7.034	7.035	0.000	191338	10.573	704.89	Q
196 Caprolactam	113.0	7.307	7.318	-0.010	52005	10.216	681.04	Q
* 67 Acenaphthene-d10	164.0	8.479	8.479	0.000	509314	20.000	20.000	
200 Atrazine	200.0	9.420	9.420	0.000	53736	9.4033	626.89	Q
* 102 Phenanthrene-d10	188.0	9.752	9.752	0.000	670034	20.000	20.000	
115 Benzidine	184.0	10.976	10.982	-0.004	536790	54.028	3601.87	Q
125 3,3'-Dichlorobenzidine	252.0	12.565	12.565	0.000	40563	9.6777	645.18	Q
* 128 Chrysene-d12	240.0	12.667	12.667	0.000	261055	20.000	20.000	
* 136 Perylene-d12	264.0	14.972	14.967	0.005	191759	20.000	20.000	
60 2-Nitroaniline	138.0	8.072	8.078	-0.004	89031	9.6526	643.51	Q
66 3-Nitroaniline	138.0	8.420	8.420	0.000	62831	9.8584	657.23	Q
83 4-Nitroaniline	138.0	8.944	8.944	0.000	55282	9.9761	665.07	Q

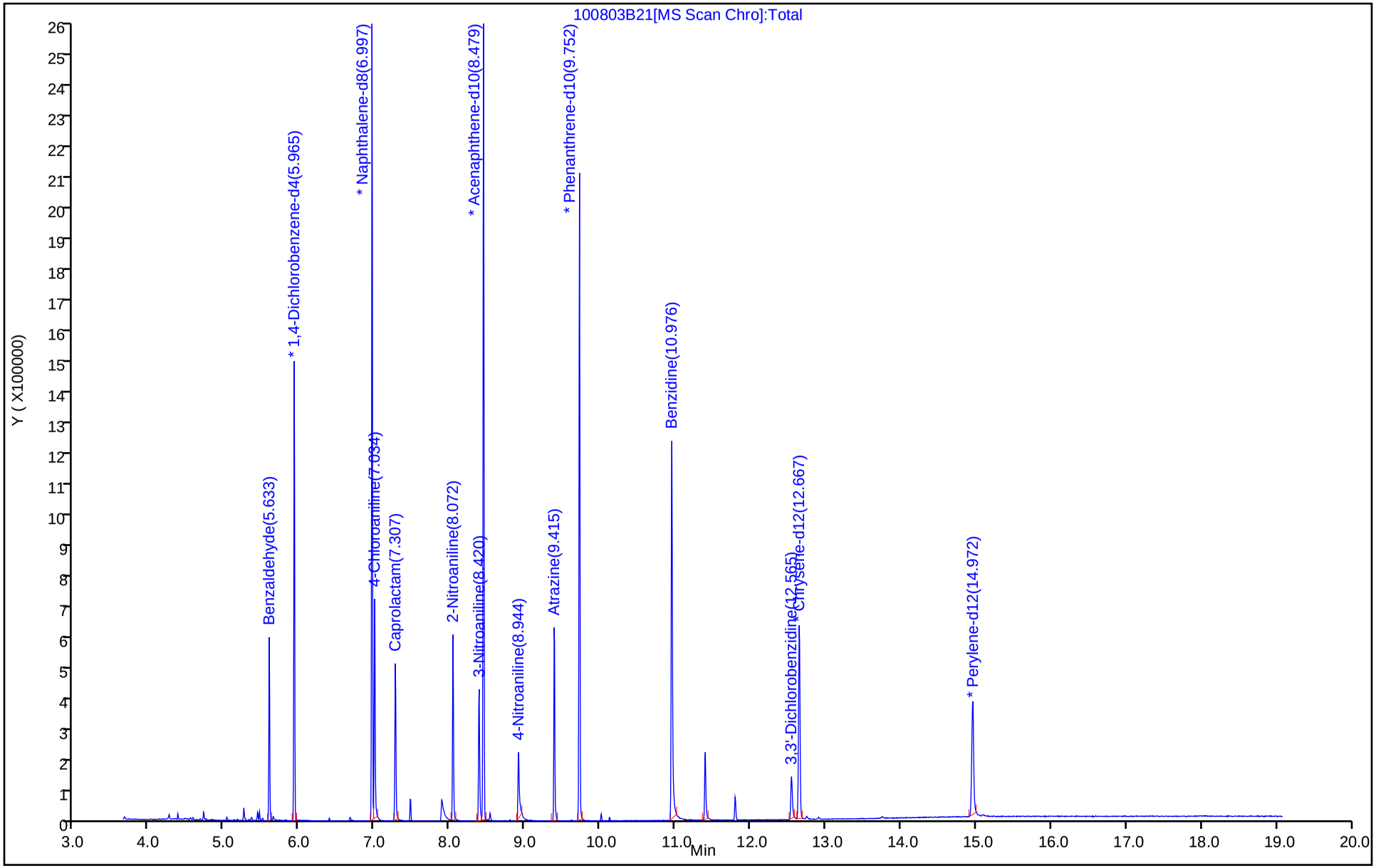
Compound Type Legend
* - ISTD

QC Flag Legend
Processing Flags
Q - Qualifier Signal(s) Fails Ratio Test
Review Flags

Report Date: 03-Aug-2023 23:11:55 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

Data File:	\\Organics\HH\chem\msd10.i\10080323B.b\100803B21.D				
Injection Date:	03-Aug-2023 22:25:30	Inst. ID:	msd10.i	Operator:	JCG
Client ID:		Lab ID:	SVMS 6584		
Sample Info:	10080323B.b, SVMS 6584				
Injection Vol.	5.00	Dil. Factor:	1.0		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan		



Pace Environmental Services, LLC

Resolution Report

Data File:	\\Organics\HH\chem\msd10.i\10080323B.b\100803B21.D		
Injection Date:	03-Aug-2023 22:25:30	Inst. ID:	msd10.i
Client ID:		Lab ID:	SVMS 6584
Sample Info:	10080323B.b, SVMS 6584		
Injection Vol.	5.00	Dil. Factor:	1.0
Operator:	JCG		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan

134 Benzo(k)fluoranthene @ 0.000 - 132 Benzo(b)fluoranthene @ 0.000

SW-846 Method
Version D

%Valley = (V / ((H1 + H2)/2)) * 100

V (Valley Height) = 0
H1(134 Benzo(k)fluoranthen) = 0
H2(132 Benzo(b)fluoranthen) = 0

%Valley = 0 <= 50
Passed

Pace Environmental Services, LLC
Continuing Calibration Verification Report

Data File: \\Organics\HH\chem\msd10.i\10081423.b\10081402.D
Lab Sample ID: SVMS 6677 Client Sample ID: 1STD010AB
Injection Date: 14-Aug-2023 10:05:30 Dil. Factor: 1.0
Operator: JCG Inst. ID: msd10.i
Sample Info: 10081423.b, SVMS 6677
Misc. Info: 1STD010
Method: \\Organics\HH\chem\msd10.i\10081423.b\8270DLVI-10.m
Method Date: 15-Aug-2023 10:32:30 Quant Method: ISTD
Calib Date: 14-Aug-2023 13:24:30 Calib File: 10081410.D
Sample Type: CCV ALS Bottle: 97
Cpnd Sublist: 1STD.sub
Matrix/Level: Soil/Low
Target 4.14 Integrator: falcon

Compound	Standard RRF/Amt	Ccal Amt	Ccal RF	Min. RRF	%D	Max. %D	%Rec
1 pyridine	10	6.948	0.496638	0.05	* -30.5	20	69
193 1,4-Dioxane	0.211027		0.149615	0.05	* -29.1	20	71
2 N-Nitrosodimethylamine	0.879902		0.94932	0.05	7.9	20	108
$ 6 2-Fluorophenol	1.504821		1.45079	0.05	-3.6	20	96
$ 9 Phenol-d5	2.003511		1.957282	0.05	-2.3	20	98
10 Phenol	2.04097		1.83497	0.05	-10.1	20	90
11 Aniline	0.80739		0.76659	0.05	-5.1	20	95
12 bis(2-Chloroethyl)ether	1.446257		1.396024	0.05	-3.5	20	97
13 2-Chlorophenol	1.488479		1.378581	0.05	-7.4	20	93
14 1,3-Dichlorobenzene	1.434859		1.388503	0.05	-3.2	20	97
17 1,4-Dichlorobenzene	1.567688		1.498272	0.05	-4.4	20	96
18 Benzyl alcohol	0.589992		0.438863	0.05	* -25.6	20	74
19 1,2-Dichlorobenzene	1.50067		1.406948	0.05	-6.2	20	94
20 o-Cresol	1.556208		1.265219	0.05	-18.7	20	81
21 bis(2Chloro1methylethyl)	3.408238		3.178248	0.05	-6.7	20	93
23 m+p-Cresol	1.629697		1.371258	0.05	-15.9	20	84
24 Acetophenone	2.12536		1.966794	0.05	-7.5	20	93
26 n-Nitroso-di-n-propylami	1.316266		1.208568	0.05	-8.2	20	92
28 Hexachloroethane	0.564491		0.527224	0.05	-6.6	20	93
$ 29 Nitrobenzene-d5	0.388307		0.427212	0.05	10	20	110
30 Nitrobenzene	0.382332		0.402521	0.05	5.3	20	105
32 Isophorone	0.694561		0.676996	0.05	-2.5	20	97
33 2-Nitrophenol	0.175205		0.171475	0.05	-2.1	20	98
34 2,4-Dimethylphenol	0.218971		0.206112	0.05	-5.9	20	94
35 bis(2-Chloroethoxy)metha	0.455685		0.444433	0.05	-2.5	20	98
36 Benzoic acid	20	18.132	0.221383	0.05	-9.3	20	91
38 2,4-Dichlorophenol	0.236879		0.22162	0.05	-6.4	20	94
40 1,2,4-Trichlorobenzene	0.249378		0.242735	0.05	-2.7	20	97
43 Naphthalene	1.096376		1.078022	0.05	-1.7	20	98
45 2,6-Dichlorophenol	0.227942		0.203477	0.05	-10.7	20	89
47 Hexachlorobutadiene	0.124803		0.120037	0.05	-3.8	20	96
49 4-Chloro-3-methylphenol	0.26632		0.233528	0.05	-12.3	20	88
51 2-Methylnaphthalene	0.627645		0.597305	0.05	-4.8	20	95
52 1,2,4,5-Tetrachlorobenze	0.49688		0.454283	0.05	-8.6	20	91

Compound	Standard RRF/Amt	Ccal Amt	Ccal RF	Min. RRF	%D	Max. %D	%Rec
53 Hexachlorocyclopentadien	50	36.374	0.231654	0.05	* -27.3	20	73
54 2,4,6-Trichlorophenol	0.275475		0.242303	0.05	-12	20	88
55 2,4,5-Trichlorophenol	0.295089		0.26001	0.05	-11.9	20	88
$ 56 2-Fluorobiphenyl	1.352745		1.278214	0.05	-5.5	20	94
58 2-Chloronaphthalene	1.116004		1.061324	0.05	-4.9	20	95
62 Dimethylphthalate	1.030137		1.040043	0.05	1	20	101
63 m-Dinitrobenzene	0.168597		0.175276	0.04	4	20	104
64 Acenaphthylene	1.518303		1.488301	0.05	-2	20	98
65 2,6-Dinitrotoluene	0.250847		0.250202	0.05	-0.3	20	100
68 Acenaphthene	1.198573		1.127248	0.05	-6	20	94
69 2,4-Dinitrophenol	20	17.557	0.116164	0.03	-12.2	20	88
70 4-Nitrophenol	0.098876		0.103163	0.05	4.3	20	104
71 Dibenzofuran	1.41358		1.376537	0.05	-2.6	20	97
73 2,4-Dinitrotoluene	0.284961		0.305023	0.05	7	20	107
76 2,3,4,6-Tetrachloropheno	0.197885		0.1772	0.05	-10.5	20	90
78 Diethylphthalate	0.959001		1.025955	0.05	7	20	107
79 Fluorene	1.141006		1.134077	0.05	-0.6	20	99
80 4-Chlorophenylphenylethe	0.496177		0.497314	0.05	0.2	20	100
84 4,6-Dinitro-2-methylphen	10	9.016	0.103494	0.01	-9.8	20	90
86 n-Nitrosodiphenylamine	0.599901		0.572385	0.05	-4.6	20	95
87 Azobenzene	1.098237		1.03038	0.05	-6.2	20	94
$ 88 2,4,6-Tribromophenol	0.068989		0.0465	0.01	* -32.6	20	67
94 4-Bromophenylphenylether	0.184012		0.16309	0.05	-11.4	20	89
96 Hexachlorobenzene	0.160371		0.136485	0.05	-14.9	20	85
99 Pentachlorophenol	20	14.342	0.067932	0.05	* -28.3	20	72
103 Phenanthrene	1.050501		0.9936	0.05	-5.4	20	95
104 Anthracene	0.970248		0.963528	0.05	-0.7	20	99
106 Carbazole	0.895154		0.92132	0.05	2.9	20	103
109 Di-n-butylphthalate	0.991214		1.066389	0.05	7.6	20	108
114 Fluoranthene	0.820674		0.850624	0.05	3.6	20	104
116 Pyrene	1.875797		1.981487	0.05	5.6	20	106
$ 117 Terphenyl-d14	1.171539		1.262228	0.05	7.7	20	108
122 Butylbenzylphthalate	10	9.8489	0.690085	0.05	-1.5	20	98
127 Benzo(a)Anthracene	1.269613		1.298861	0.05	2.3	20	102
129 Chrysene	1.277242		1.265828	0.05	-0.9	20	99
130 bis(2-Ethylhexyl)phthala	10	8.6746	0.749113	0.05	-13.3	20	87
131 Di-n-octylphthalate	10	10.245	1.713771	0.05	2.5	20	102
132 Benzo(b)fluoranthene	1.178632		1.339948	0.05	13.7	20	114
134 Benzo(k)fluoranthene	1.301236		1.406141	0.05	8.1	20	108
135 Benzo(a)pyrene	0.988858		1.070656	0.05	8.3	20	108
138 Indeno(1,2,3-c,d)pyrene	10	8.7477	1.190728	0.05	-12.5	20	87
139 Dibenzo(a,h)anthracene	10	8.699	0.996704	0.05	-13	20	87
140 Benzo(g,h,i)perylene	1.002569		0.979721	0.05	-2.3	20	98
184 Biphenyl	1.515122		1.422686	0.05	-6.1	20	94
201 n-Decane	1.733638		1.63931	0.05	-5.4	20	95
202 Octadecane	0.89162		0.83185	0.05	-6.7	20	93
204 1-Methylnaphthalene	0.635082		0.575048	0.05	-9.5	20	91

Pace Environmental Services, LLC
Target Compound Quantitation Report

Data File: \\Organics\HH\chem\msd10.i\10081423.b\10081402.D
Lab Sample ID: SVMS 6677 Client Sample ID: 1STD010AB
Injection Date: 14-Aug-2023 10:05:30 Dil. Factor: 1.0
Operator: JCG Inst. ID: msd10.i
Sample Info: 10081423.b, SVMS 6677
Misc. Info: 1STD010
Method: \\Organics\HH\chem\msd10.i\10081423.b\8270DLVI-10.m
Method Date: 15-Aug-2023 10:32:30 Quant Method: ISTD
Calib Date: 14-Aug-2023 13:24:30 Calib File: 10081410.D
Sample Type: CCV ALS Bottle: 97
Cpnd Sublist: 1STD.sub
Matrix/Level: Soil/Low
Target 4.14 Integrator: falcon

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100)/Vi * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	5000.00	Volume of final extract (uL)(1000 low, 2000 med.
Ws	15.000	Weight of sample extracted (g)
M	0	% Moisture
Vi	5.0000	
Cpnd Variable		Local Cpnd Variable

Column1: ZebronZB-SV (0.25 mm) Detector: MS Scan
Data Reviewer: jcg Review Date: 15-Aug-2023 11:09:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
193 1,4-Dioxane	58.0	3.825	3.825	0.000	19694	10.000	7.0898	
2 N-Nitrosodimethylamine	42.0	4.023	4.023	0.000	124960	10.000	10.789	
1 pyridine	79.0	4.082	4.082	0.000	65373	10.000	6.9480	
$ 6 2-Fluorophenol	112.0	4.949	4.949	0.000	190969	10.000	9.6410	
$ 9 Phenol-d5	99.0	5.596	5.596	0.000	257639	10.000	9.7693	
10 Phenol	94.0	5.607	5.607	0.000	241539	10.000	8.9907	
11 Aniline	66.0	5.607	5.607	0.000	100907	10.000	9.4947	
12 bis(2-Chloroethyl)ether	63.0	5.692	5.692	0.000	183760	10.000	9.6527	
201 n-Decane	57.0	5.746	5.746	0.000	215784	10.000	9.4559	
13 2-Chlorophenol	128.0	5.778	5.778	0.000	181464	10.000	9.2617	
14 1,3-Dichlorobenzene	146.0	5.901	5.901	0.000	182770	10.000	9.6769	
* 16 1,4-Dichlorobenzene-d4	152.0	5.938	5.938	0.000	263262	20.000	20.000	
17 1,4-Dichlorobenzene	146.0	5.954	5.954	0.000	197219	10.000	9.5572	
18 Benzyl alcohol	79.0	6.077	6.077	0.000	57768	10.000	7.4385	M
20 o-Cresol	108.0	6.083	6.083	0.000	166542	10.000	8.1301	
19 1,2-Dichlorobenzene	146.0	6.077	6.077	0.000	185198	10.000	9.3755	
21 bis(2Chloro1methylethyl)ether	45.0	6.104	6.104	0.000	418356	10.000	9.3252	
23 m+p-Cresol	107.0	6.195	6.195	0.000	180500	10.000	8.4142	
26 n-Nitroso-di-n-propylamine	70.0	6.211	6.211	0.000	159085	10.000	9.1818	
24 Acetophenone	105.0	6.238	6.238	0.000	258891	10.000	9.2539	
28 Hexachloroethane	117.0	6.355	6.355	0.000	69399	10.000	9.3398	
$ 29 Nitrobenzene-d5	82.0	6.371	6.371	0.000	233738	10.000	11.002	R

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
30 Nitrobenzene	77.0	6.387	6.387	0.000	220229	10.000	10.528	
32 Isophorone	82.0	6.564	6.564	0.000	370401	10.000	9.7471	
34 2,4-Dimethylphenol	107.0	6.634	6.634	0.000	112769	10.000	9.4128	M
33 2-Nitrophenol	139.0	6.644	6.644	0.000	93818	10.000	9.7871	
35 bis(2-Chloroethoxy)methane	93.0	6.703	6.703	0.000	243160	10.000	9.7531	
36 Benzoic acid	105.0	6.687	6.687	0.000	242248	20.000	18.132	
38 2,4-Dichlorophenol	162.0	6.842	6.842	0.000	121254	10.000	9.3559	
45 2,6-Dichlorophenol	162.0	7.024	7.024	0.000	111327	10.000	8.9267	
40 1,2,4-Trichlorobenzene	180.0	6.912	6.912	0.000	132806	10.000	9.7336	
* 41 Naphthalene-d8	136.0	6.976	6.976	0.000	1094249	20.000	20.000	
43 Naphthalene	128.0	6.992	6.992	0.000	589812	10.000	9.8326	
47 Hexachlorobutadiene	224.6	7.061	7.061	0.000	65675	10.000	9.6181	
49 4-Chloro-3-methylphenol	107.0	7.404	7.404	0.000	127769	10.000	8.7687	
51 2-Methylnaphthalene	142.0	7.559	7.559	0.000	326800	10.000	9.5166	
204 1-Methylnaphthalene	142.0	7.644	7.644	0.000	314623	10.000	9.0547	
53 Hexachlorocyclopentadiene	237.0	7.682	7.682	0.000	296791	50.000	36.374	
52 1,2,4,5-Tetrachlorobenzene	216.0	7.698	7.698	0.000	116404	10.000	9.1427	
54 2,4,6-Trichlorophenol	196.0	7.783	7.783	0.000	62087	10.000	8.7958	
55 2,4,5-Trichlorophenol	196.0	7.821	7.821	0.000	66624	10.000	8.8112	
$ 56 2-Fluorobiphenyl	172.0	7.842	7.842	0.000	327525	10.000	9.4490	
184 Biphenyl	154.0	7.939	7.939	0.000	364544	10.000	9.3899	
58 2-Chloronaphthalene	162.0	7.981	7.981	0.000	271950	10.000	9.5100	M
63 m-Dinitrobenzene	168.0	8.217	8.217	0.000	44912	10.000	10.396	
62 Dimethylphthalate	163.0	8.158	8.158	0.000	266497	10.000	10.096	
65 2,6-Dinitrotoluene	165.0	8.233	8.233	0.000	64111	10.000	9.9743	
64 Acenaphthylene	152.0	8.340	8.340	0.000	381357	10.000	9.8024	
* 67 Acenaphthene-d10	164.0	8.452	8.452	0.000	512473	20.000	20.000	
69 2,4-Dinitrophenol	184.0	8.479	8.479	0.000	59531	20.000	17.557	
68 Acenaphthene	153.0	8.479	8.479	0.000	288842	10.000	9.4049	
70 4-Nitrophenol	109.0	8.522	8.522	0.000	52868	20.000	20.867	M
73 2,4-Dinitrotoluene	165.0	8.575	8.575	0.000	78158	10.000	10.704	
71 Dibenzofuran	168.0	8.623	8.623	0.000	352719	10.000	9.7379	
76 2,3,4,6-Tetrachlorophenol	232.0	8.720	8.720	0.000	45405	10.000	8.9547	
78 Diethylphthalate	149.0	8.741	8.741	0.000	262887	10.000	10.698	
80 4-Chlorophenylphenylether	204.0	8.880	8.880	0.000	127430	10.000	10.023	
79 Fluorene	166.0	8.917	8.917	0.000	290592	10.000	9.9393	
84 4,6-Dinitro-2-methylphenol	198.0	8.928	8.928	0.000	33975	10.000	9.0160	
86 n-Nitrosodiphenylamine	169.0	8.976	8.976	0.000	187902	10.000	9.5413	
87 Azobenzene	77.0	9.019	9.019	0.000	338252	10.000	9.3821	
$ 88 2,4,6-Tribromophenol	330.0	9.121	9.121	0.000	15265	10.000	6.7402	
94 4-Bromophenylphenylether	248.0	9.303	9.303	0.000	53539	10.000	8.8630	
96 Hexachlorobenzene	284.0	9.388	9.388	0.000	44805	10.000	8.5105	
202 Octadecane	57.0	9.495	9.495	0.000	273079	10.000	9.3296	
99 Pentachlorophenol	266.0	9.549	9.549	0.000	44601	20.000	14.342	
* 102 Phenanthrene-d10	188.0	9.725	9.725	0.000	656558	20.000	20.000	
103 Phenanthrene	178.0	9.746	9.746	0.000	326178	10.000	9.4583	
104 Anthracene	178.0	9.789	9.789	0.000	316306	10.000	9.9307	
106 Carbazole	167.0	9.907	9.907	0.000	302450	10.000	10.292	
109 Di-n-butylphthalate	149.0	10.121	10.121	0.000	350073	10.000	10.758	
114 Fluoranthene	202.0	10.854	10.854	0.000	279242	10.000	10.365	
116 Pyrene	202.0	11.110	11.110	0.000	282347	10.000	10.563	

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 117 Terphenyl-d14	244.0	11.201	11.201	0.000	179858	10.000	10.774	
122 Butylbenzylphthalate	149.0	11.731	11.731	0.000	98332	10.000	9.8489	
130 bis(2-Ethylhexyl)phthalate	149.0	12.458	12.458	0.000	106743	10.000	8.6746	
127 Benzo(a)Anthracene	228.0	12.613	12.613	0.000	185078	10.000	10.230	
* 128 Chrysene-d12	240.0	12.629	12.629	0.000	284985	20.000	20.000	
129 Chrysene	228.0	12.672	12.672	0.000	180371	10.000	9.9106	
131 Di-n-octylphthalate	149.0	13.448	13.448	0.000	149751	10.000	10.245	
132 Benzo(b)fluoranthene	252.0	14.271	14.271	0.000	117086	10.000	11.369	
134 Benzo(k)fluoranthene	252.0	14.314	14.314	0.000	122870	10.000	10.806	
135 Benzo(a)pyrene	252.0	14.828	14.828	0.000	93555	10.000	10.827	
* 136 Perylene-d12	264.0	14.924	14.924	0.000	174762	20.000	20.000	
138 Indeno(1,2,3-c,d)pyrene	276.0	17.085	17.085	0.000	104047	10.000	8.7477	
139 Dibenzo(a,h)anthracene	278.0	17.095	17.095	0.000	87093	10.000	8.6990	
140 Benzo(g,h,i)perylene	276.0	17.748	17.748	0.000	85609	10.000	9.7721	

Compound Type Legend

$ - Surrogate

* - ISTD

QC Flag Legend

Processing Flags

R - Spike/Surrogte Fails %Recovery Test

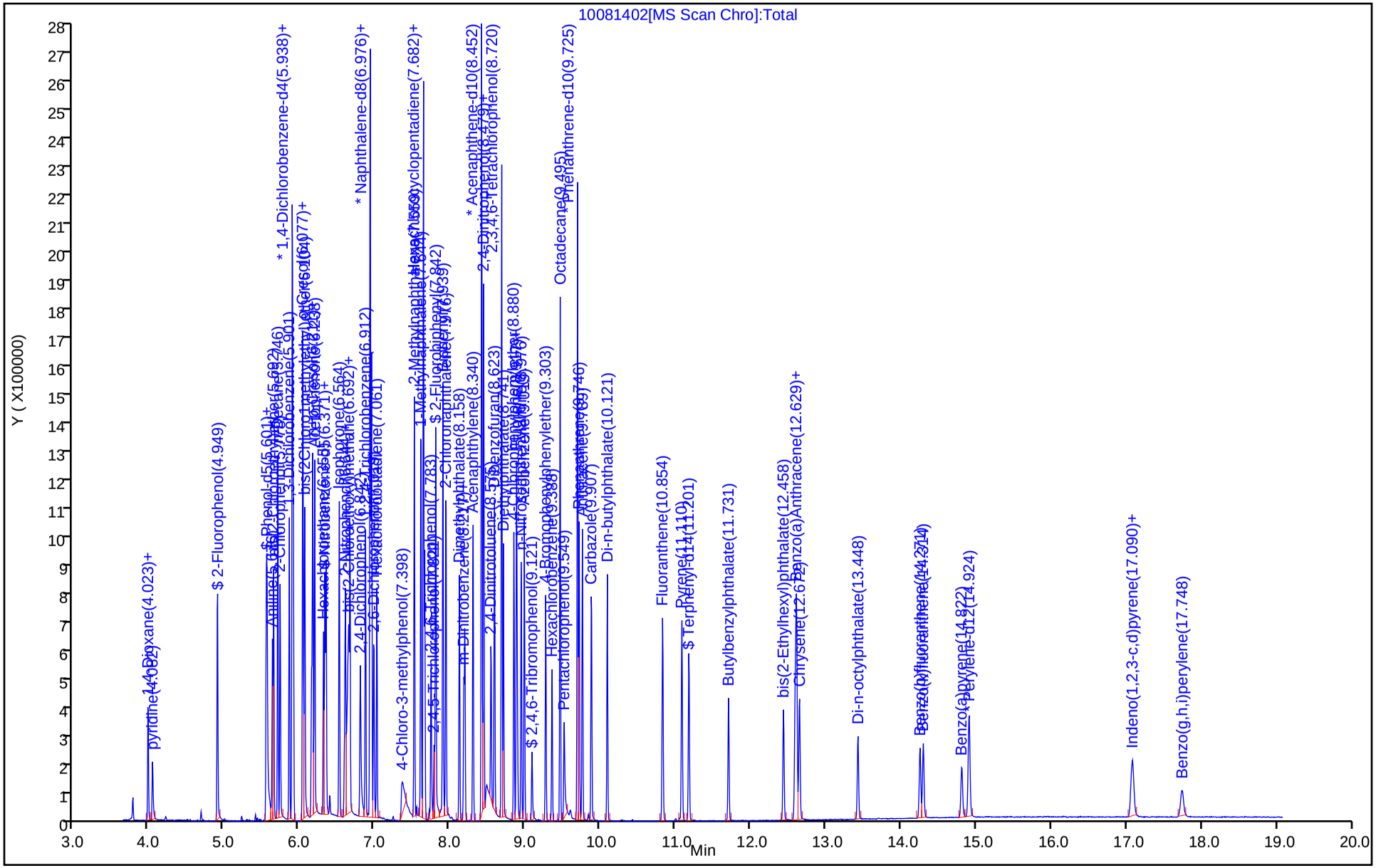
Review Flags

M - Compound Hit/Peak Manually Integrated

Report Date: 15-Aug-2023 11:20:12 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

Data File:	\\Organics\HH\chem\msd10.i\10081423.b\10081402.D				
Injection Date:	14-Aug-2023 10:05:30	Inst. ID:	msd10.i	Operator:	JCG
Client ID:	1STD010AB	Lab ID:	SVMS 6677		
Sample Info:	10081423.b, SVMS 6677				
Injection Vol.	5.00	Dil. Factor:	1.0		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan		



Report Date: 15-Aug-2023 11:20:12 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

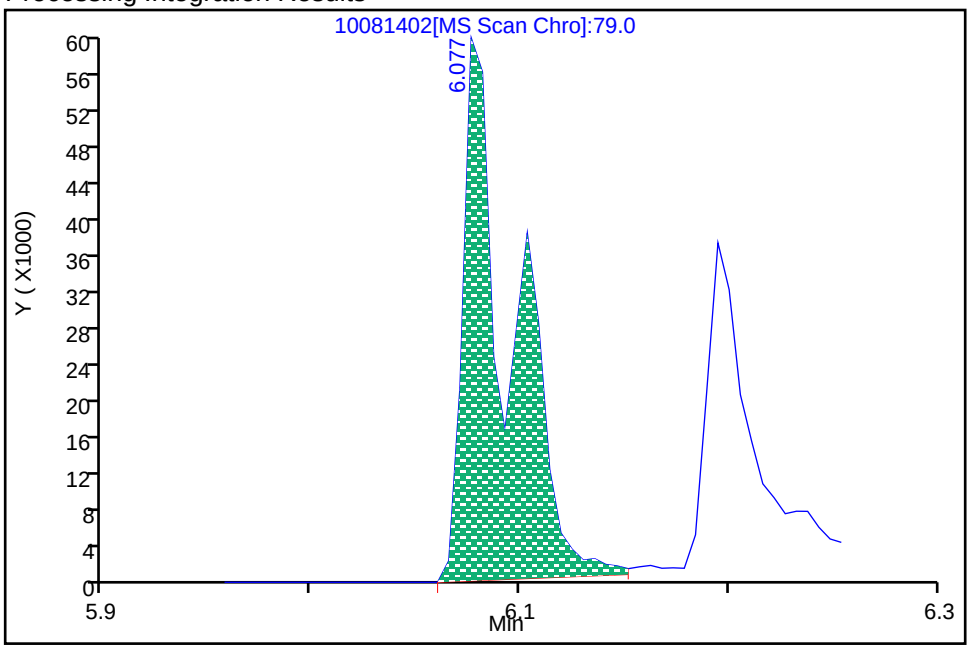
Manual Integration Report

Data File:	\\Organics\HH\chem\msd10.i\10081423.b\10081402.D		
Injection Date:	14-Aug-2023 10:05:30	Inst. ID:	msd10.i
Client ID:	1STD010AB	Lab ID:	SVMS 6677
Sample Info:	10081423.b, SVMS 6677		
Injection Vol.	5.00	Dil. Factor:	1.0
Operator:	JCG		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan

18 Benzyl alcohol, CAS: 100-51-6

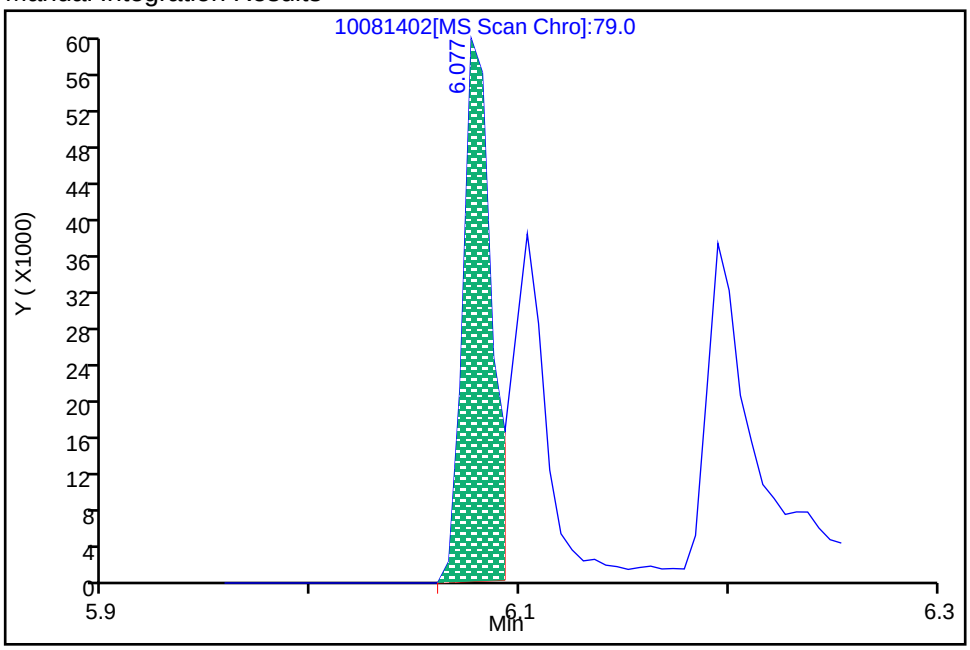
Processing Integration Results

RT: 6.077
Area: 95949
Amount: 12.355
Amount Units: ng
Conc:



Manual Integration Results

RT: 6.077
Area: 57768
Amount: 7.4385
Amount Units: ng



Data Editor: jcg, 14-Aug-2023 11:00:30
Audit Action: Mint
Audit Reason: M-01, Split Peak

Report Date: 15-Aug-2023 11:20:12 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

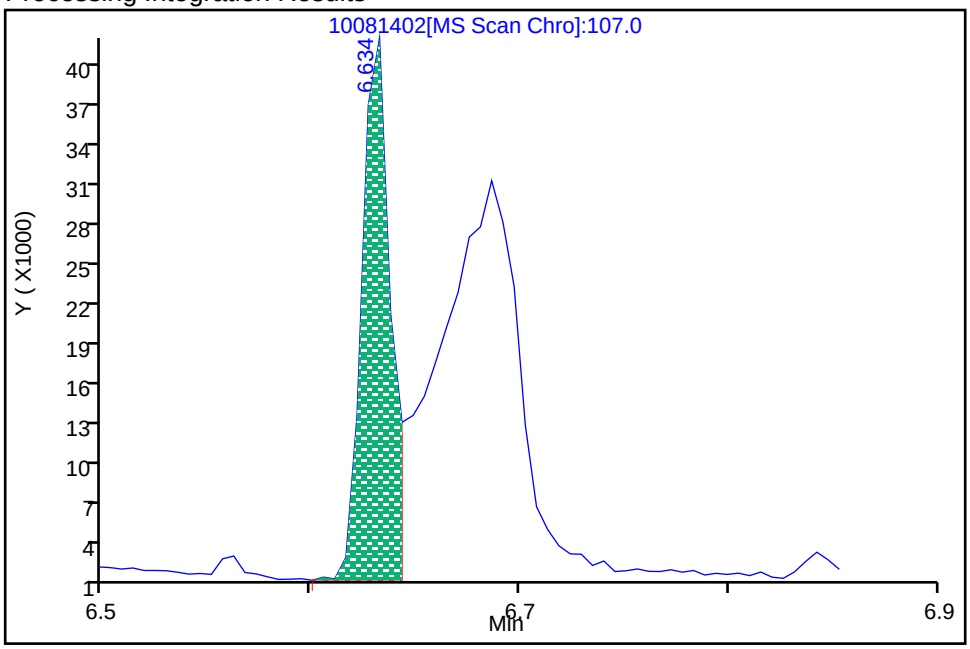
Manual Integration Report

Data File:	\\Organics\HH\chem\msd10.i\10081423.b\10081402.D		
Injection Date:	14-Aug-2023 10:05:30	Inst. ID:	msd10.i
Client ID:	1STD010AB	Lab ID:	SVMS 6677
Sample Info:	10081423.b, SVMS 6677		
Injection Vol.	5.00	Dil. Factor:	1.0
Operator:	JCG		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan

34 2,4-Dimethylphenol, CAS: 105-67-9

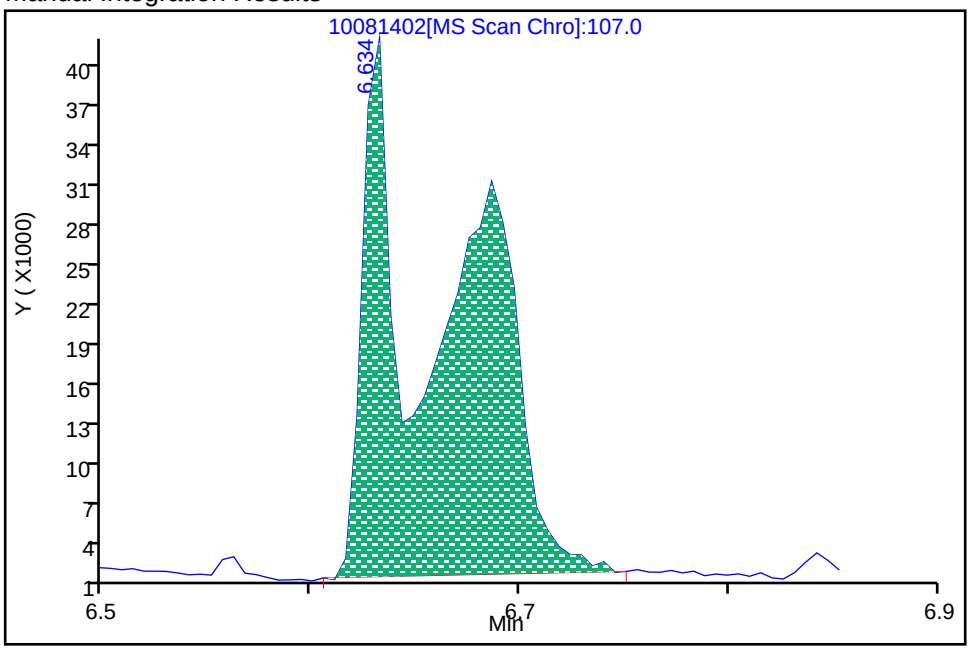
Processing Integration Results

RT: 6.634
Area: 37086
Amount: 3.0955
Amount Units: ng
Conc:



Manual Integration Results

RT: 6.634
Area: 112769
Amount: 9.4128
Amount Units: ng



Data Editor: jcg, 14-Aug-2023 11:01:30
Audit Action: Mint
Audit Reason: M-03, Incorrect Auto Integration

Report Date: 15-Aug-2023 11:20:12 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

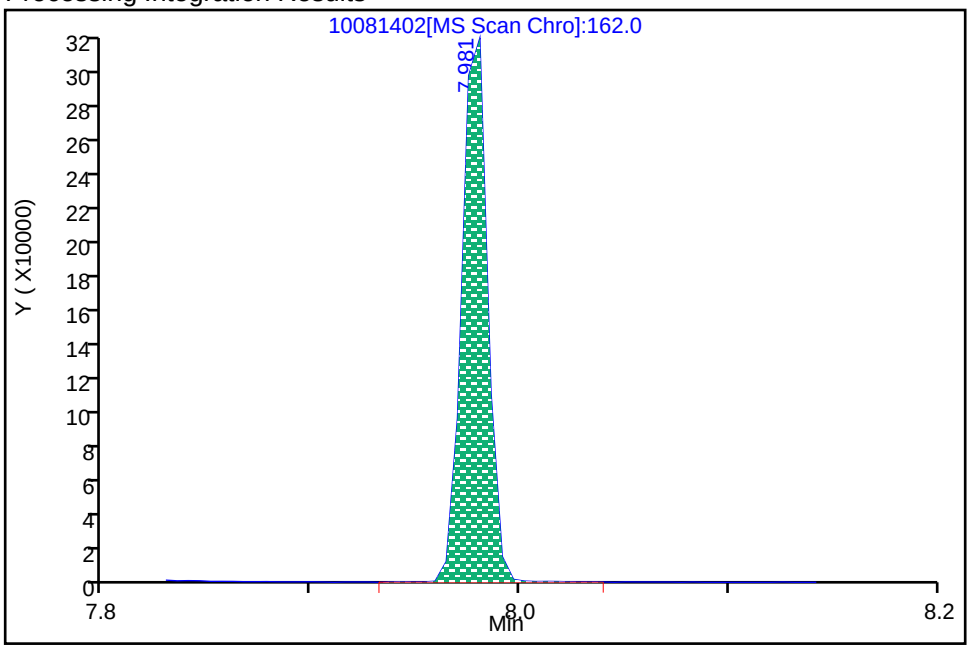
Manual Integration Report

Data File:	\\Organics\HH\chem\msd10.i\10081423.b\10081402.D		
Injection Date:	14-Aug-2023 10:05:30	Inst. ID:	msd10.i
Client ID:	1STD010AB	Lab ID:	SVMS 6677
Sample Info:	10081423.b, SVMS 6677		
Injection Vol.	5.00	Dil. Factor:	1.0
Operator:	JCG		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan

58 2-Chloronaphthalene, CAS: 91-58-7

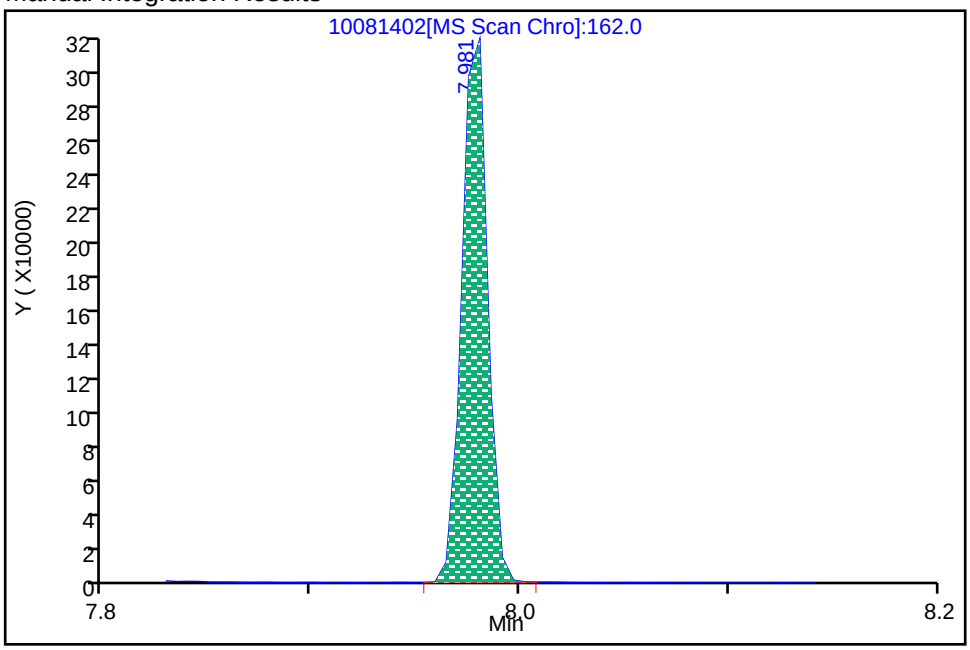
Processing Integration Results

RT: 7.981
Area: 273785
Amount: 9.5742
Amount Units: ng
Conc:



Manual Integration Results

RT: 7.981
Area: 271950
Amount: 9.5100
Amount Units: ng



Data Editor: jcg, 15-Aug-2023 11:09:30
Audit Action: Mint
Audit Reason: M-03, Incorrect Auto Integration

Report Date: 15-Aug-2023 11:20:12 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

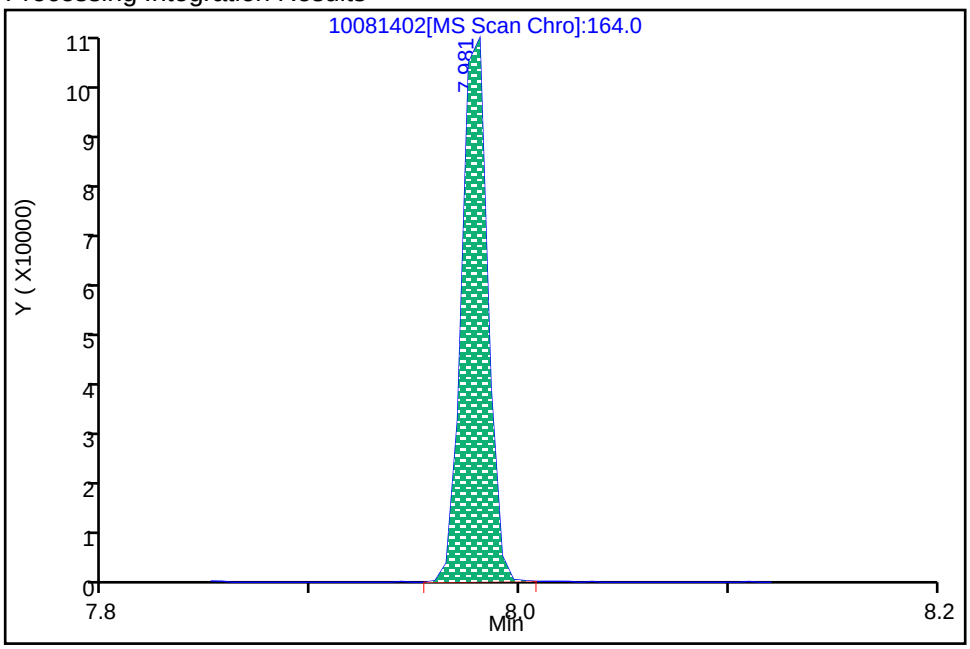
Manual Integration Report

Data File:	\\Organics\HH\chem\msd10.i\10081423.b\10081402.D		
Injection Date:	14-Aug-2023 10:05:30	Inst. ID:	msd10.i
Client ID:	1STD010AB	Lab ID:	SVMS 6677
Sample Info:	10081423.b, SVMS 6677		
Injection Vol.	5.00	Dil. Factor:	1.0
Operator:	JCG		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan

58 2-Chloronaphthalene, CAS: 91-58-7

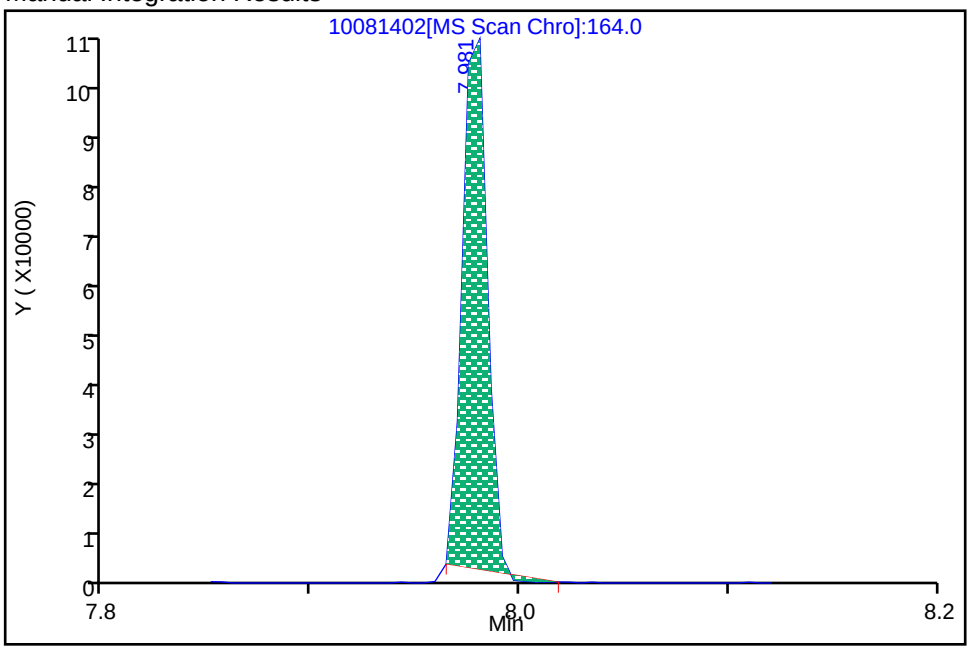
Processing Integration Results

RT: 7.981
Area: 88646
Amount: 9.5742
Amount Units: ng
Conc:



Manual Integration Results

RT: 7.981
Area: 82287
Amount: 9.5100
Amount Units: ng



Data Editor: jcg, 15-Aug-2023 11:09:30
Audit Action: Mint
Audit Reason: M-03, Incorrect Auto Integration

Report Date: 15-Aug-2023 11:20:12 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

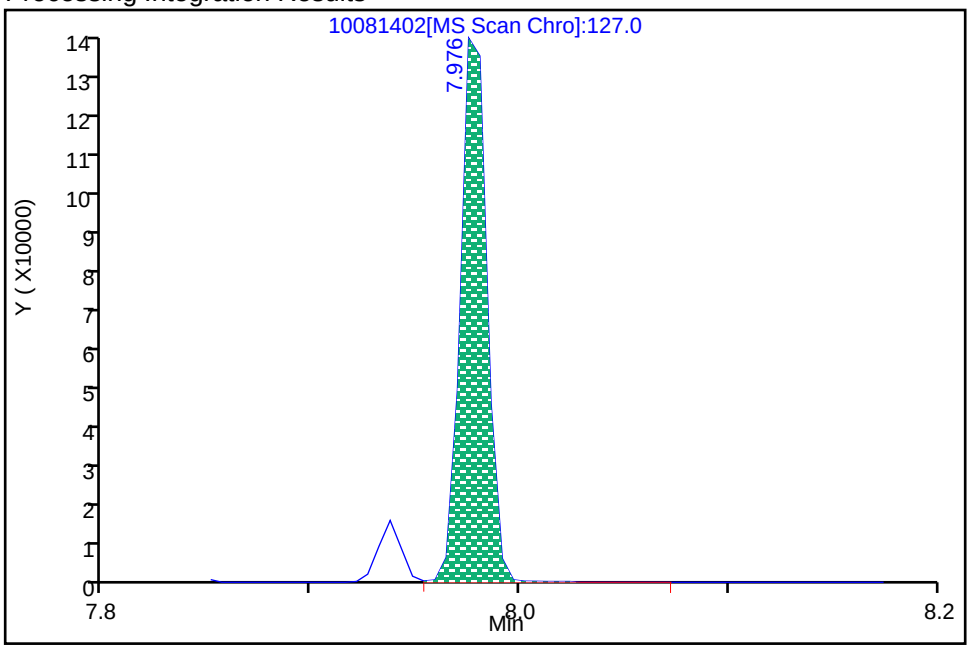
Manual Integration Report

Data File:	\\Organics\HH\chem\msd10.i\10081423.b\10081402.D		
Injection Date:	14-Aug-2023 10:05:30	Inst. ID:	msd10.i
Client ID:	1STD010AB	Lab ID:	SVMS 6677
Sample Info:	10081423.b, SVMS 6677		
Injection Vol.	5.00	Dil. Factor:	1.0
Operator:	JCG		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan

58 2-Chloronaphthalene, CAS: 91-58-7

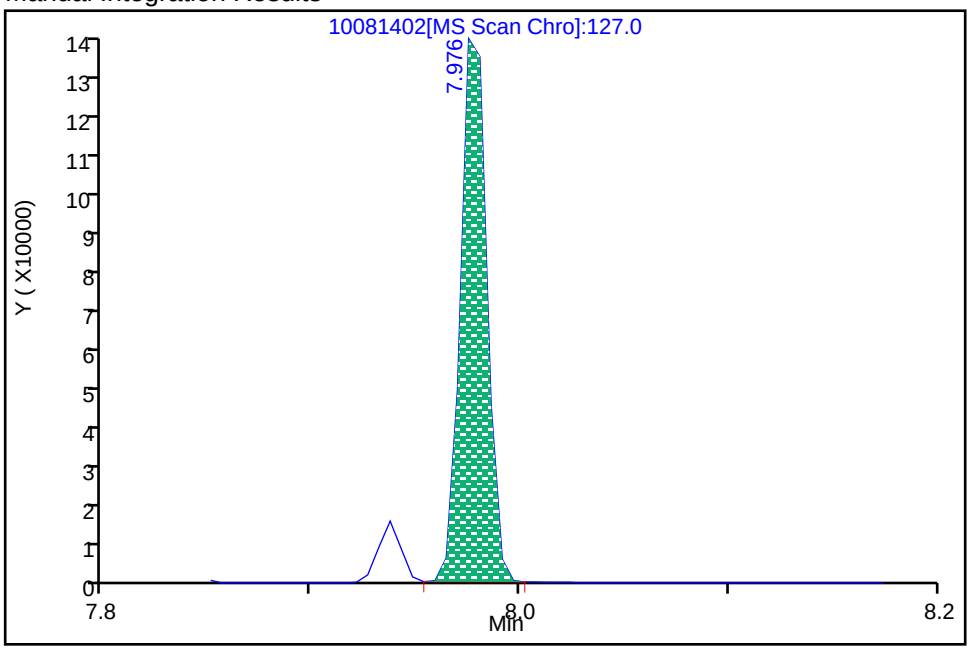
Processing Integration Results

RT: 7.976
Area: 119896
Amount: 9.5742
Amount Units: ng
Conc:



Manual Integration Results

RT: 7.976
Area: 118772
Amount: 9.5100
Amount Units: ng



Data Editor: jcg, 15-Aug-2023 11:09:30
Audit Action: Mint
Audit Reason: M-03, Incorrect Auto Integration

Report Date: 15-Aug-2023 11:20:12 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

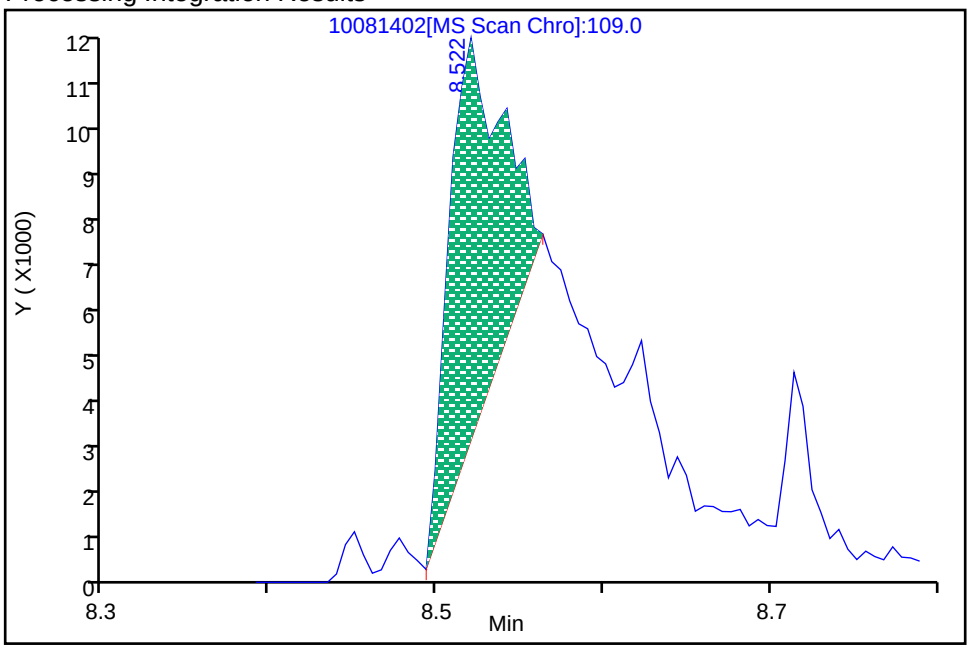
Manual Integration Report

Data File:	\\Organics\HH\chem\msd10.i\10081423.b\10081402.D		
Injection Date:	14-Aug-2023 10:05:30	Inst. ID:	msd10.i
Client ID:	1STD010AB	Lab ID:	SVMS 6677
Sample Info:	10081423.b, SVMS 6677		
Injection Vol.	5.00	Dil. Factor:	1.0
Operator:	JCG		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan

70 4-Nitrophenol, CAS: 100-02-7

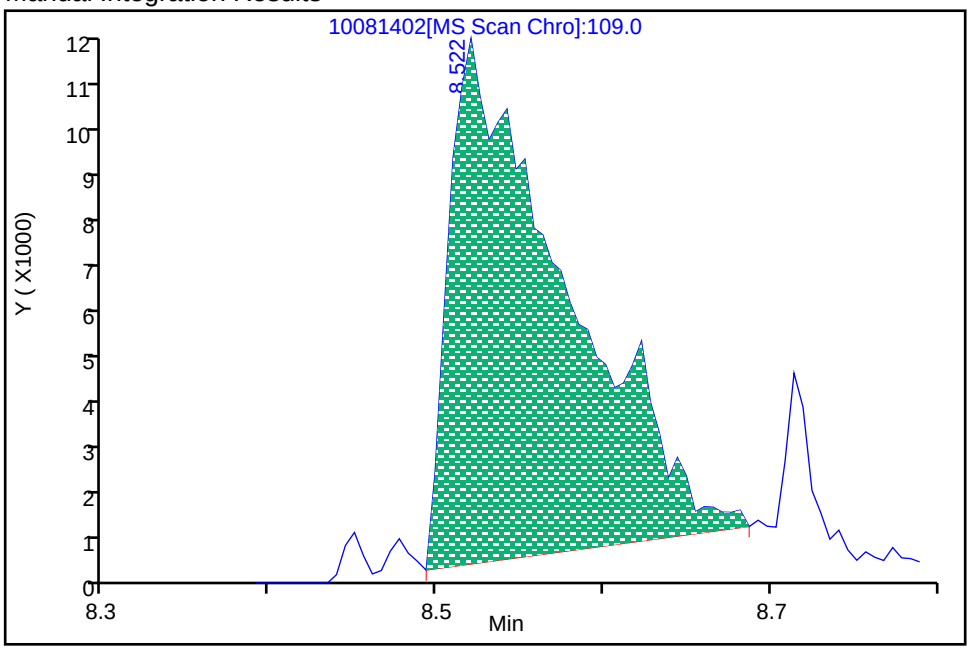
Processing Integration Results

RT: 8.522
Area: 18390
Amount: 7.2585
Amount Units: ng
Conc:



Manual Integration Results

RT: 8.522
Area: 52868
Amount: 20.867
Amount Units: ng



Data Editor: jcg, 14-Aug-2023 11:01:30
Audit Action: Mint
Audit Reason: M-03, Incorrect Auto Integration

Report Date: 15-Aug-2023 11:20:12 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

Resolution Report

Data File:	\\Organics\HH\chem\msd10.i\10081423.b\10081402.D		
Injection Date:	14-Aug-2023 10:05:30	Inst. ID:	msd10.i
Client ID:	1STD010AB	Lab ID:	SVMS 6677
Sample Info:	10081423.b, SVMS 6677		
Injection Vol.	5.00	Dil. Factor:	1.0
Operator:	JCG		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan

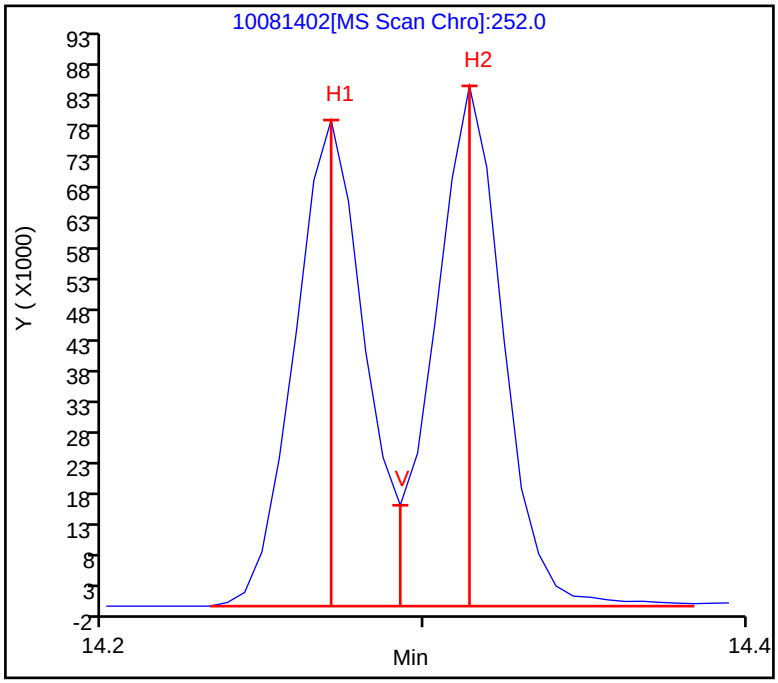
132 Benzo(b)fluoranthene @ 14.271 - 134 Benzo(k)fluoranthene @ 14.314

SW-846 Method
Version D

%Valley = (V / ((H1 + H2)/2)) * 100

V (Valley Height) = 16286
H1(132 Benzo(b)fluoranthen) = 78456
H2(134 Benzo(k)fluoranthen) = 83968

%Valley = 20 <= 50
Passed



Pace Environmental Services, LLC
Continuing Calibration Verification Report

Data File: \\Organics\HH\chem\msd10.i\10081423.b\10081403.D
Lab Sample ID: SVMS 6581 Client Sample ID: 3STD020AC
Injection Date: 14-Aug-2023 10:30:30 Dil. Factor: 1.0
Operator: JCG Inst. ID: msd10.i
Sample Info: 10081423.b, SVMS 6581
Misc. Info: 3STD020
Method: \\Organics\HH\chem\msd10.i\10081423.b\8270DLVI-10.m
Method Date: 15-Aug-2023 10:32:30 Quant Method: ISTD
Calib Date: 14-Aug-2023 13:24:30 Calib File: 10081410.D
Sample Type: CCV ALS Bottle: 98
Cpnd Sublist: 3STD.sub
Matrix/Level: Soil/Low
Target 4.14 Integrator: falcon

Compound	Standard RRF/Amt	Ccal Amt	Ccal RF	Min. RRF	%D	Max. %D	%Rec
196 Caprolactam	20	18.851	0.104963	0.05	-5.7	20	94
44 4-Chloroaniline	20	18.905	0.391308	0.05	-5.5	20	95
60 2-Nitroaniline	0.362195		0.384524	0.05	6.2	20	106
66 3-Nitroaniline	0.250271		0.289875	0.05	15.8	20	116
83 4-Nitroaniline	0.217605		0.250516	0.05	15.1	20	115
115 Benzidine	100	101.79	1.035696	0.05	1.8	20	102
125 3,3'-Dichlorobenzidine	20	18.766	0.340601	0.05	-6.2	20	94
199 Benzaldehyde	1.122951		1.222966	0.05	8.9	20	109
200 Atrazine	0.170576		0.175093	0.05	2.6	20	103

Pace Environmental Services, LLC
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd10.i\10081423.b\10081403.D		
Lab Sample ID:	SVMS 6581	Client Sample ID:	3STD020AC
Injection Date:	14-Aug-2023 10:30:30	Dil. Factor:	1.0
Operator:	JCG	Inst. ID:	msd10.i
Sample Info:	10081423.b, SVMS 6581		
Misc. Info:	3STD020		
Method:	\\Organics\HH\chem\msd10.i\10081423.b\8270DLVI-10.m		
Method Date:	15-Aug-2023 10:32:30	Quant Method:	ISTD
Calib Date:	14-Aug-2023 13:24:30	Calib File:	10081410.D
Sample Type:	CCV	ALS Bottle:	98
Cpnd Sublist:	3STD.sub		
Matrix/Level:	Soil/Low		
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100)/Vi * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	5000.00	Volume of final extract (uL)(1000 low, 2000 med.
Ws	15.000	Weight of sample extracted (g)
M	0	% Moisture
Vi	5.0000	
Cpnd Variable		Local Cpnd Variable

Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	jcg	Review Date:	15-Aug-2023 10:32:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 16 1,4-Dichlorobenzene-d4	152.0	5.938	5.938	0.000	171546	20.000	20.000	
199 Benzaldehyde	77.0	5.607	5.607	0.000	209795	20.000	21.781	
* 41 Naphthalene-d8	136.0	6.970	6.970	0.000	848850	20.000	20.000	
44 4-Chloroaniline	127.0	7.008	7.008	0.000	332162	20.000	18.905	
196 Caprolactam	113.0	7.291	7.291	0.000	89098	20.000	18.851	
* 67 Acenaphthene-d10	164.0	8.452	8.452	0.000	424221	20.000	20.000	
200 Atrazine	200.0	9.393	9.393	0.000	99356	20.000	20.530	
* 102 Phenanthrene-d10	188.0	9.725	9.725	0.000	567446	20.000	20.000	
115 Benzidine	184.0	10.950	10.950	0.000	1138333	100.00	101.79	
125 3,3'-Dichlorobenzidine	252.0	12.522	12.522	0.000	74871	20.000	18.766	
* 128 Chrysene-d12	240.0	12.629	12.629	0.000	219820	20.000	20.000	
* 136 Perylene-d12	264.0	14.913	14.913	0.000	143531	20.000	20.000	
60 2-Nitroaniline	138.0	8.046	8.046	0.000	163123	20.000	21.233	
66 3-Nitroaniline	138.0	8.393	8.393	0.000	122971	20.000	23.165	
83 4-Nitroaniline	138.0	8.917	8.917	0.000	106274	20.000	23.025	

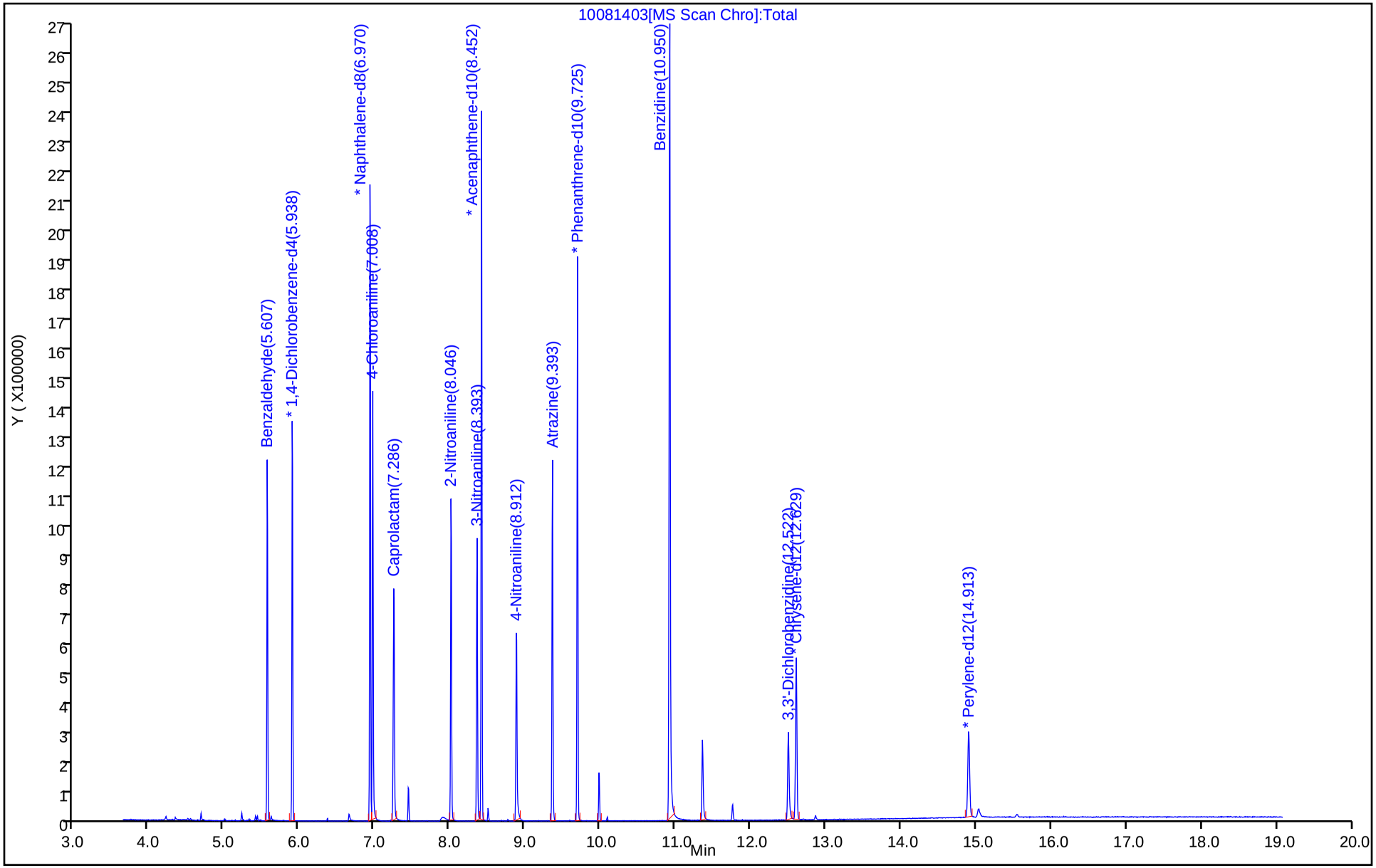
Compound Type Legend
* - ISTD

QC Flag Legend
Processing Flags
Review Flags

Report Date: 15-Aug-2023 11:20:12 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

Data File:	\\Organics\HH\chem\msd10.i\10081423.b\10081403.D				
Injection Date:	14-Aug-2023 10:30:30	Inst. ID:	msd10.i	Operator:	JCG
Client ID:	3STD020AC	Lab ID:	SVMS 6581		
Sample Info:	10081423.b, SVMS 6581				
Injection Vol.	5.00	Dil. Factor:	1.0		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan		



Pace Environmental Services, LLC

Resolution Report

Data File:	\\Organics\HH\chem\msd10.i\10081423.b\10081403.D		
Injection Date:	14-Aug-2023 10:30:30	Inst. ID:	msd10.i
Client ID:	3STD020AC	Lab ID:	SVMS 6581
Sample Info:	10081423.b, SVMS 6581		
Injection Vol.	5.00	Dil. Factor:	1.0
Operator:	JCG		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan

134 Benzo(k)fluoranthene @ 0.000 - 132 Benzo(b)fluoranthene @ 0.000

SW-846 Method
Version D

%Valley = (V / ((H1 + H2)/2)) * 100

V (Valley Height) = 0
H1(134 Benzo(k)fluoranthen) = 0
H2(132 Benzo(b)fluoranthen) = 0

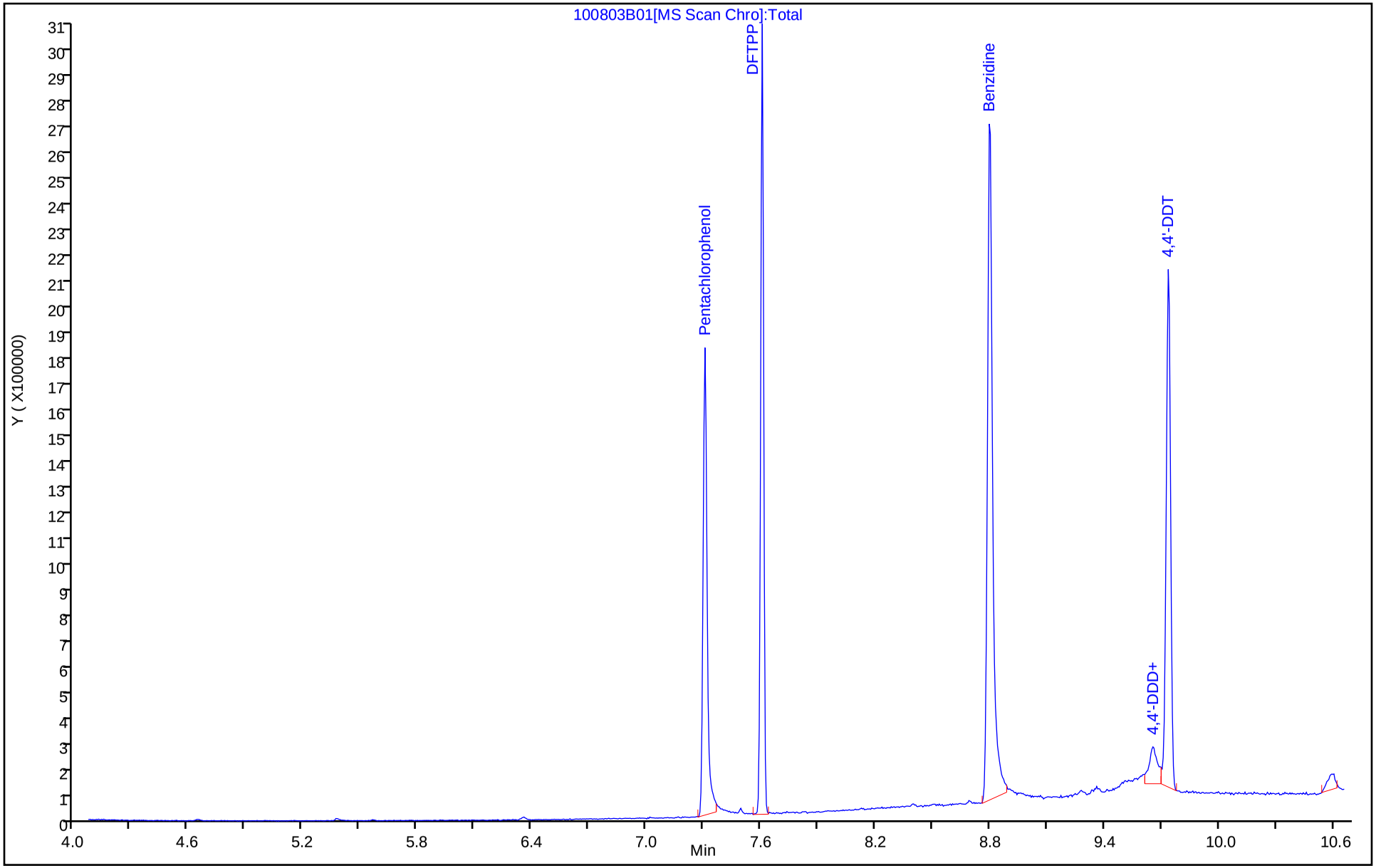
%Valley = 0 <= 50
Passed

RAW QC DATA

Report Date: 03-Aug-2023 23:11:51 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

Data File:	\\Organics\HH\chem\msd10.i\10080323B.b\100803B01.D				
Injection Date:	03-Aug-2023 14:17:30	Inst. ID:	msd10.i	Operator:	JCG
Client ID:		Lab ID:	SVMS 6559		
Sample Info:	10080323B.b, SVMS 6559				
Injection Vol.	1.00	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



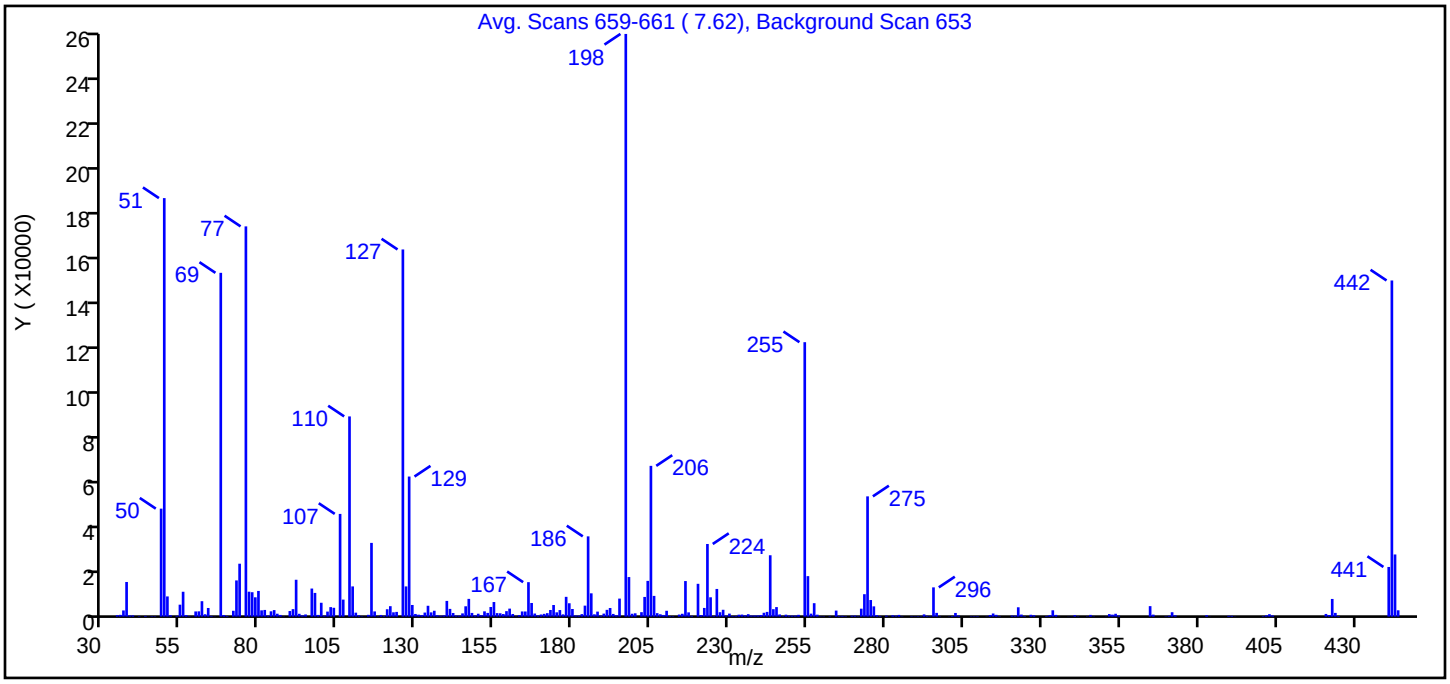
Report Date: 03-Aug-2023 23:11:51 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

MS Tune Report

Data File:	\\Organics\HH\chem\msd10.i\10080323B.b\100803B01.D		
Injection Date:	03-Aug-2023 14:17:30	Inst. ID:	msd10.i
Client ID:		Lab ID:	SVMS 6559
Sample Info:	10080323B.b, SVMS 6559		
Injection Vol.	1.00	Dil. Factor:	1.0
Operator:	JCG		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

1 dftpp



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% relative abundance	100.0
68	Less than 2.00% of mass 69	0.0 (0.0) 1
69	Present	59.0
70	Less than 2.00% of mass 69	0.3 (0.5) 1
197	Less than 2.00% of mass 198	0.0
199	5.00 - 9.00% of mass 198	6.8
365	Greater than 1.00% of mass 198	1.8
441	Less than 150.00% of mass 443	8.5 (79.9) 2
442	Present	57.7
443	15.00 - 24.00% of mass 442	10.7 (18.5) 3

1-Value is % Mass 69 2-Value is % Mass 443 3-Value is % Mass 442

Data File: \\Organics\HH\chem\msd10.i\10080323B.b\100803B01.D
Injection Date: 03-Aug-2023 14:17:30
Spectrum: Avg. Scans 659-661 (7.62), Background Scan 653
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 302

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	625	122.00	3261	200.00	1265	283.00	576
37.00	773	123.00	4624	201.00	1468	284.00	402
38.00	2735	124.00	1907	203.00	1966	285.00	753
39.00	15359	125.00	2085	204.00	8723	286.00	128
40.00	524	127.00	162880	205.00	15843	289.00	181
41.00	545	128.00	13390	206.00	66880	290.00	121
43.00	190	129.00	62136	207.00	9186	291.00	190
44.00	6	130.00	5156	208.00	1535	292.00	158
45.00	306	131.00	1169	209.00	1035	293.00	990
46.00	56	132.00	850	210.00	731	294.00	360
47.00	184	133.00	659	211.00	2583	295.00	176
48.00	165	134.00	1786	212.00	244	296.00	12972
50.00	47896	135.00	4806	213.00	199	297.00	1660
51.00	185664	136.00	1876	215.00	902	298.00	157
52.00	8952	137.00	2599	216.00	1255	301.00	93
53.00	577	138.00	621	217.00	15767	302.00	277
55.00	333	139.00	374	218.00	1874	303.00	1612
56.00	5289	140.00	549	219.00	351	304.00	456
57.00	11025	141.00	6959	221.00	14549	308.00	152
58.00	670	142.00	3421	222.00	675	309.00	167
59.00	184	143.00	1601	223.00	3844	310.00	191
60.00	75	144.00	461	224.00	32216	313.00	117
61.00	2294	145.00	417	225.00	8569	314.00	706
62.00	2336	146.00	1431	226.00	257	315.00	1379
63.00	6835	147.00	4578	227.00	12268	316.00	780
64.00	1048	148.00	7863	228.00	1953	317.00	205
65.00	3825	149.00	1633	229.00	3025	321.00	454
66.00	310	150.00	524	230.00	424	322.00	380
67.00	81	151.00	1277	231.00	1329	323.00	4137
69.00	152512	152.00	599	232.00	232	324.00	903
70.00	713	153.00	2334	233.00	298	325.00	239
71.00	276	154.00	1641	234.00	850	327.00	815
73.00	2588	155.00	4260	235.00	900	328.00	583

Report Date: 03-Aug-2023 23:11:51 AIM Revision: 1.0 07-Jul-2023 13:11:40
Data File: \\Organics\HH\chem\msd10.i\10080323B.b\100803B01.D
Injection Date: 03-Aug-2023 14:17:30
Spectrum: Avg. Scans 659-661 (7.62), Background Scan 653
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 302

m/z	Y	m/z	Y	m/z	Y	m/z	Y
74.00	16052	156.00	6463	236.00	582	332.00	275
75.00	23464	157.00	1554	237.00	1074	333.00	646
77.00	173120	158.00	1484	238.00	465	334.00	2805
78.00	11044	159.00	1137	239.00	509	335.00	757
79.00	10820	160.00	2421	240.00	515	336.00	78
80.00	8564	161.00	3541	241.00	715	339.00	64
81.00	11384	162.00	1163	242.00	1706	340.00	67
82.00	2779	163.00	147	243.00	2085	341.00	623
83.00	2958	164.00	640	244.00	27216	342.00	134
84.00	420	165.00	2284	245.00	3294	345.00	149
85.00	2350	166.00	2275	246.00	4216	346.00	757
86.00	2890	167.00	15277	247.00	959	347.00	110
87.00	1274	168.00	6043	248.00	202	351.00	87
88.00	737	169.00	1364	249.00	857	352.00	1123
89.00	121	170.00	571	250.00	456	353.00	870
91.00	2469	171.00	943	251.00	434	354.00	1258
92.00	3312	172.00	1222	252.00	445	355.00	475
93.00	16346	173.00	1531	253.00	787	365.00	4643
94.00	1243	174.00	2935	255.00	121744	366.00	874
95.00	532	175.00	5144	256.00	17952	370.00	151
96.00	959	176.00	1902	257.00	1317	371.00	372
98.00	12449	177.00	2899	258.00	5951	372.00	1942
99.00	10507	178.00	990	259.00	846	373.00	554
100.00	751	179.00	8768	260.00	155	383.00	602
101.00	6139	180.00	5922	261.00	143	384.00	60
102.00	366	181.00	3373	263.00	183	390.00	354
103.00	2223	182.00	495	264.00	24	391.00	334
104.00	4204	183.00	450	265.00	2667	392.00	73
105.00	3912	184.00	1099	266.00	310	401.00	225
107.00	45560	185.00	4865	267.00	329	402.00	566
108.00	7542	186.00	35600	268.00	184	403.00	1077
110.00	88816	187.00	10327	270.00	394	404.00	519
111.00	13394	188.00	1023	271.00	453	421.00	1179
112.00	1747	189.00	2215	272.00	170	422.00	704

Report Date: 03-Aug-2023 23:11:51 AIM Revision: 1.0 07-Jul-2023 13:11:40
Data File: \\Organics\HH\chem\msd10.i\10080323B.b\100803B01.D
Injection Date: 03-Aug-2023 14:17:30
Spectrum: Avg. Scans 659-661 (7.62), Background Scan 653
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 302

m/z	Y	m/z	Y	m/z	Y	m/z	Y
113.00	560	190.00	404	273.00	3516	423.00	7832
114.00	164	191.00	1327	274.00	9941	424.00	1641
115.00	57	192.00	2997	275.00	53344	425.00	267
116.00	792	193.00	3817	276.00	7353	441.00	22024
117.00	32704	194.00	1186	277.00	4542	442.00	149120
118.00	2299	195.00	585	278.00	656	443.00	27568
119.00	180	196.00	7990	279.00	272	444.00	2804
120.00	728	198.00	258496	281.00	425		
121.00	302	199.00	17544	282.00	55		

Report Date: 03-Aug-2023 23:11:51 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

Breakdown Report

Data File:	\\Organics\HH\chem\msd10.i\10080323B.b\100803B01.D		
Injection Date:	03-Aug-2023 14:17:30	Inst. ID:	msd10.i
Client ID:		Lab ID:	SVMS 6559
Sample Info:	10080323B.b, SVMS 6559		
Injection Vol.	1.00	Dil. Factor:	1.0
Operator:	JCG		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

5 4,4'-DDT

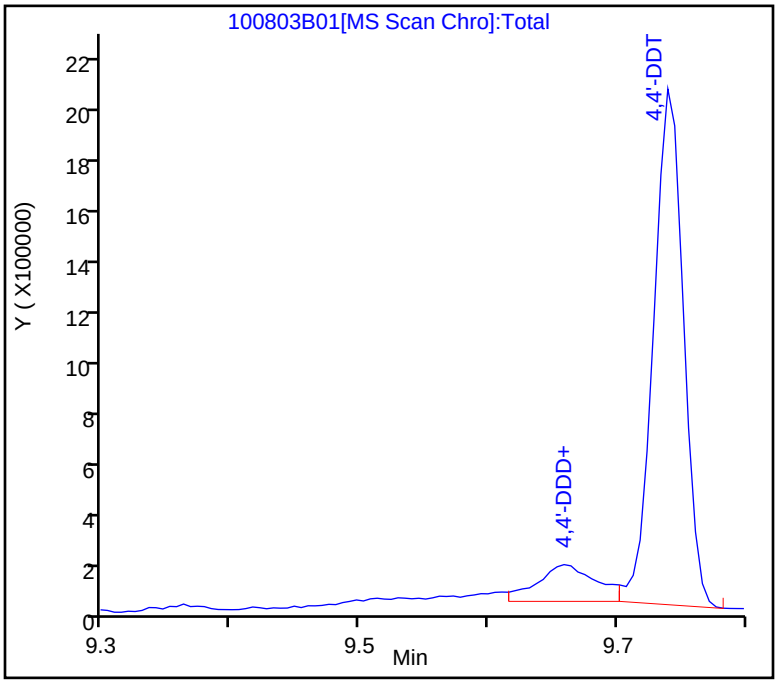
SW-846 Method

%Breakdown =
(Sum of Degrad. Peak Areas/
Total Area All Peaks) * 100

5 4,4'-DDT, Area = 495779 @ 9.74

6 4,4'-DDE, Area = 1016 @ 9.51
4 4,4'-DDD, Area = 4616 @ 9.35

%Breakdown:1.12%, Max Limit:20%
Passed



Report Date: 03-Aug-2023 23:11:51 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

Peak Tailing Report

Data File:	\\Organics\HH\chem\msd10.i\10080323B.b\100803B01.D		
Injection Date:	03-Aug-2023 14:17:30	Inst. ID:	msd10.i
Client ID:		Lab ID:	SVMS 6559
Sample Info:	10080323B.b, SVMS 6559		
Injection Vol.	1.00	Dil. Factor:	1.0
Operator:	JCG		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

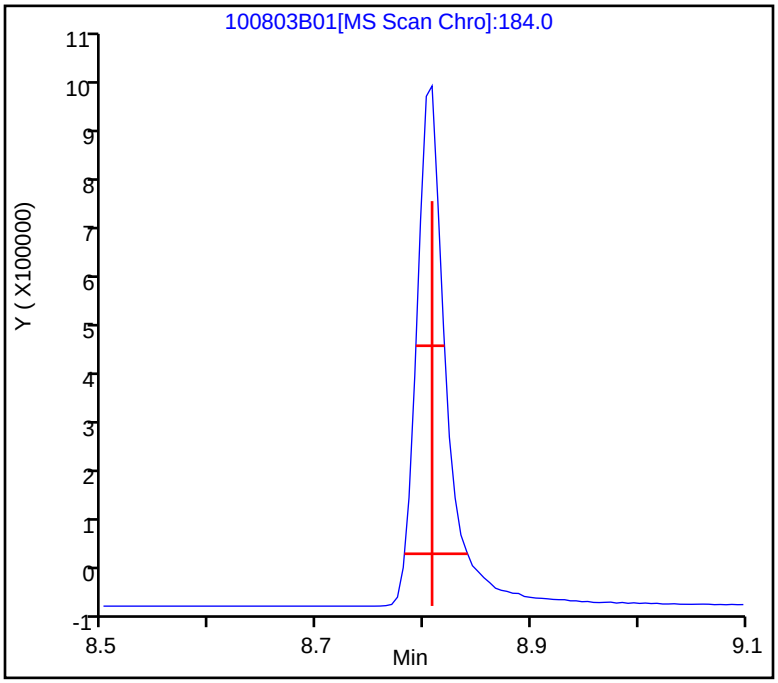
3 Benzidine

SW-846 Method

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.032 (min.)
Front Width = 0.025 (min.)

Tailing Factor = 1.28, Max. Tailing < 2.00
Passed



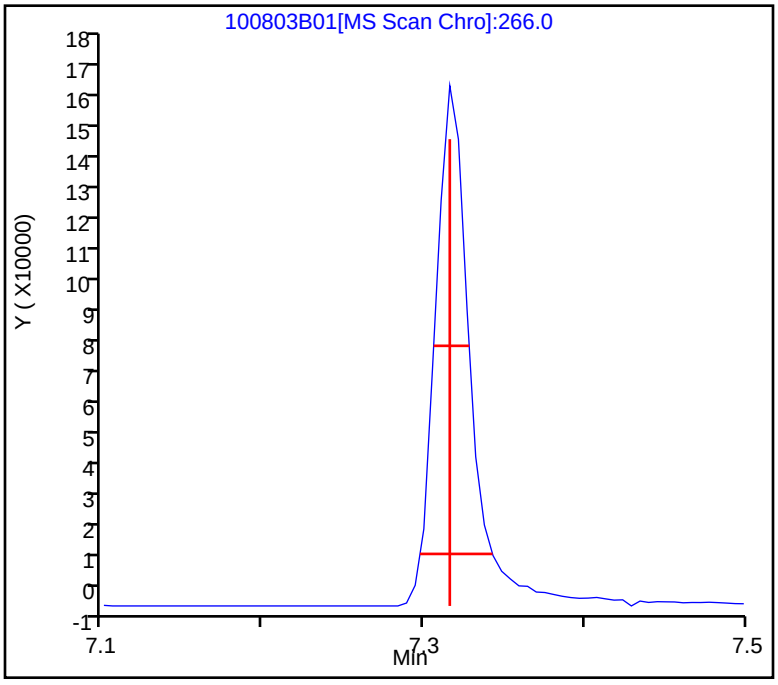
2 Pentachlorophenol

SW-846 Method

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.026 (min.)
Front Width = 0.018 (min.)

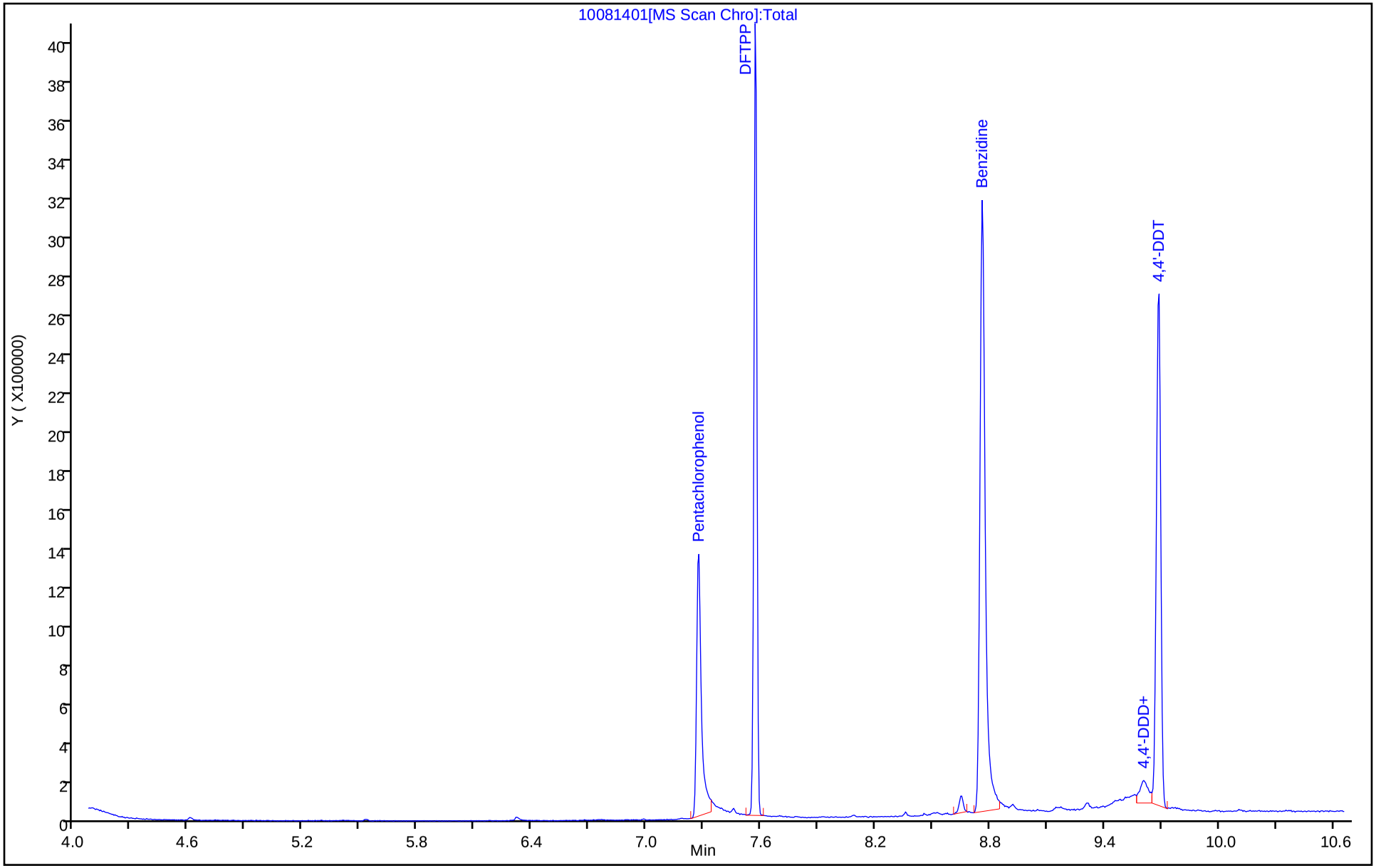
Tailing Factor = 1.44, Max. Tailing < 2.00
Passed



Report Date: 15-Aug-2023 11:20:11 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

Data File:	\\Organics\HH\chem\msd10.i\10081423.b\10081401.D				
Injection Date:	14-Aug-2023 09:28:30	Inst. ID:	msd10.i	Operator:	JCG
Client ID:	DFTPPAA	Lab ID:	SVMS 6559		
Sample Info:	10081423.b, SVMS 6559				
Injection Vol.	1.00	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



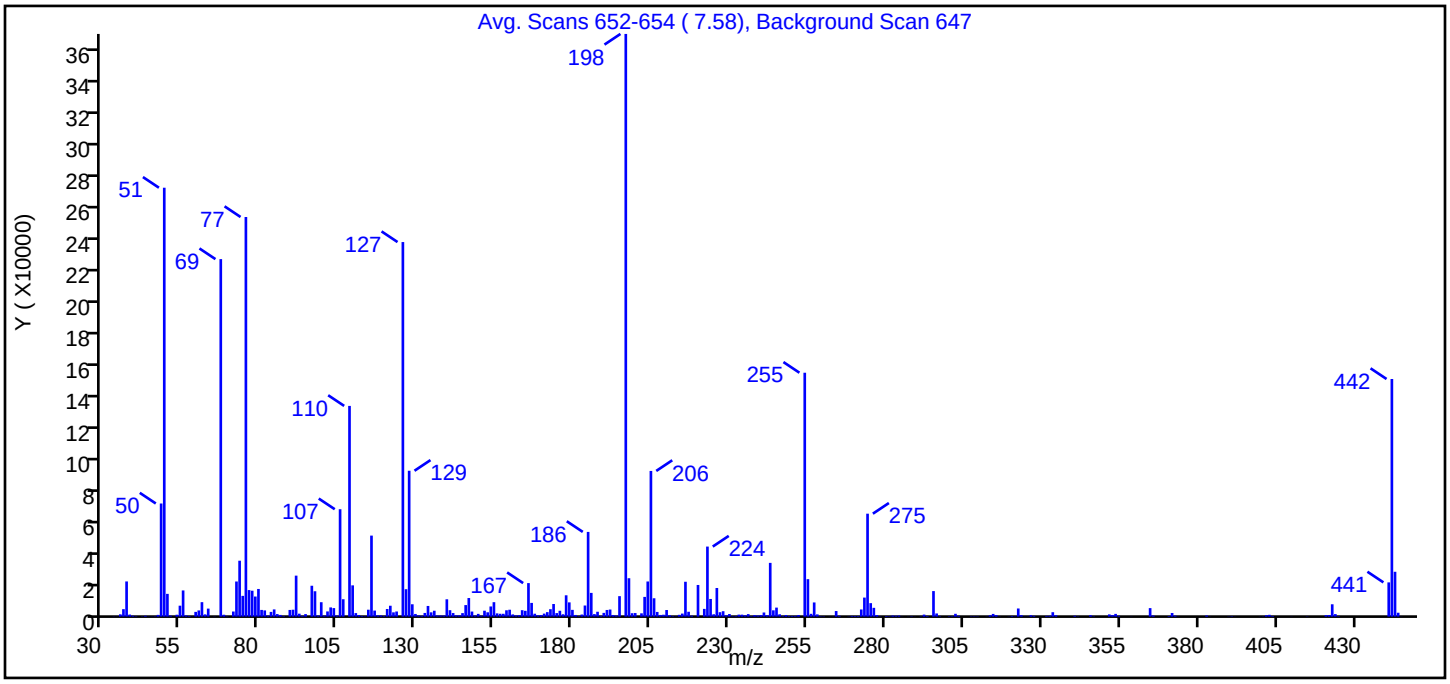
Report Date: 15-Aug-2023 11:20:11 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

MS Tune Report

Data File:	\\Organics\HH\chem\msd10.i\10081423.b\10081401.D		
Injection Date:	14-Aug-2023 09:28:30	Inst. ID:	msd10.i
Client ID:	DFTPPAA	Lab ID:	SVMS 6559
Sample Info:	10081423.b, SVMS 6559		
Injection Vol.	1.00	Dil. Factor:	1.0
Operator:	JCG		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

1 dftpp



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% relative abundance	100.0
68	Less than 2.00% of mass 69	0.0 (0.0) 1
69	Present	61.4
70	Less than 2.00% of mass 69	0.3 (0.5) 1
197	Less than 2.00% of mass 198	0.0
199	5.00 - 9.00% of mass 198	6.6
365	Greater than 1.00% of mass 198	1.5
441	Less than 150.00% of mass 443	5.9 (76.3) 2
442	Present	40.8
443	15.00 - 24.00% of mass 442	7.7 (18.9) 3

1-Value is % Mass 69 2-Value is % Mass 443 3-Value is % Mass 442

Data File: \\Organics\HH\chem\msd10.i\10081423.b\10081401.D
Injection Date: 14-Aug-2023 09:28:30
Spectrum: Avg. Scans 652-654 (7.58), Background Scan 647
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 308

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	117	117.00	50464	195.00	595	281.00	374
36.00	73	118.00	3752	196.00	12746	282.00	232
37.00	1410	119.00	789	198.00	363008	283.00	653
38.00	4640	120.00	772	199.00	23912	284.00	530
39.00	21904	121.00	351	200.00	2122	285.00	639
40.00	1269	122.00	4721	201.00	2223	286.00	60
41.00	548	123.00	6767	203.00	2050	288.00	65
42.00	214	124.00	2655	204.00	12277	289.00	213
44.00	140	125.00	3181	205.00	21880	290.00	58
45.00	520	127.00	233344	206.00	90752	292.00	167
46.00	110	128.00	17072	207.00	11426	293.00	1252
47.00	103	129.00	90864	208.00	2905	294.00	380
48.00	205	130.00	7683	209.00	1025	296.00	15900
49.00	1073	131.00	1640	210.00	1175	297.00	1958
50.00	70464	132.00	742	211.00	4104	298.00	258
51.00	267200	133.00	481	212.00	843	301.00	246
52.00	14168	134.00	2275	213.00	304	302.00	255
53.00	575	135.00	6632	214.00	134	303.00	1749
54.00	68	136.00	2658	215.00	1108	304.00	486
55.00	1161	137.00	3658	216.00	1888	308.00	182
56.00	6803	138.00	710	217.00	21712	309.00	191
57.00	16299	139.00	700	218.00	3022	310.00	164
58.00	738	140.00	661	219.00	571	313.00	103
59.00	375	141.00	10792	221.00	19704	314.00	825
60.00	109	142.00	3990	223.00	4805	315.00	1672
61.00	2941	143.00	2222	224.00	43632	316.00	932
62.00	3849	144.00	816	225.00	10987	317.00	110
63.00	8994	145.00	786	226.00	1456	320.00	90
64.00	1387	146.00	2183	227.00	17824	321.00	397
65.00	4985	147.00	7175	228.00	2745	322.00	134
67.00	117	148.00	11571	229.00	3367	323.00	5055
69.00	222720	149.00	3146	230.00	820	324.00	888
70.00	1159	150.00	647	231.00	1611	325.00	90

Report Date: 15-Aug-2023 11:20:11 AIM Revision: 1.0 07-Jul-2023 13:11:40
Data File: \\Organics\HH\chem\msd10.i\10081423.b\10081401.D
Injection Date: 14-Aug-2023 09:28:30
Spectrum: Avg. Scans 652-654 (7.58), Background Scan 647
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 308

m/z	Y	m/z	Y	m/z	Y	m/z	Y
71.00	186	151.00	1704	232.00	227	326.00	121
72.00	5	152.00	489	233.00	325	327.00	879
73.00	3171	153.00	3673	234.00	1230	328.00	443
74.00	21872	154.00	2686	235.00	1216	332.00	463
75.00	34816	155.00	6316	236.00	839	333.00	521
76.00	12915	156.00	8977	237.00	1548	334.00	2737
77.00	248960	157.00	2012	238.00	305	335.00	857
78.00	16528	158.00	1769	239.00	920	341.00	524
79.00	16126	159.00	1759	240.00	666	342.00	142
80.00	12506	160.00	3942	241.00	915	346.00	886
81.00	17216	161.00	4280	242.00	2561	347.00	171
82.00	4159	162.00	1365	243.00	927	352.00	1383
83.00	3862	163.00	747	244.00	33472	353.00	942
84.00	587	164.00	885	245.00	3914	354.00	1692
85.00	2938	165.00	3996	246.00	5604	355.00	460
86.00	4478	166.00	3613	247.00	1437	359.00	59
87.00	1578	167.00	20872	248.00	330	365.00	5286
88.00	1039	168.00	8534	249.00	995	366.00	683
89.00	324	169.00	1798	250.00	394	371.00	359
90.00	75	170.00	821	251.00	428	372.00	2251
91.00	4147	171.00	930	252.00	458	373.00	560
92.00	4289	172.00	1865	253.00	973	374.00	100
93.00	25520	173.00	2778	255.00	151936	383.00	685
94.00	1816	174.00	4615	256.00	23328	384.00	71
95.00	457	175.00	7846	257.00	1738	390.00	108
96.00	1570	176.00	2191	258.00	8818	391.00	236
98.00	19224	177.00	3631	259.00	1375	392.00	53
99.00	15796	178.00	1448	260.00	249	400.00	67
100.00	679	179.00	13277	261.00	187	401.00	140
101.00	8965	180.00	8865	263.00	61	402.00	836
102.00	550	181.00	4198	264.00	92	403.00	1115
103.00	3221	182.00	1026	265.00	3465	404.00	390
104.00	5720	183.00	297	266.00	473	410.00	54
105.00	5300	184.00	1290	269.00	113	415.00	132

Report Date: 15-Aug-2023 11:20:11 AIM Revision: 1.0 07-Jul-2023 13:11:40
Data File: \\Organics\HH\chem\msd10.i\10081423.b\10081401.D
Injection Date: 14-Aug-2023 09:28:30
Spectrum: Avg. Scans 652-654 (7.58), Background Scan 647
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 308

m/z	Y	m/z	Y	m/z	Y	m/z	Y
106.00	657	185.00	6910	270.00	434	421.00	918
107.00	66896	186.00	52760	271.00	391	422.00	980
108.00	10820	187.00	14771	272.00	387	423.00	7682
110.00	131264	188.00	1563	273.00	4449	424.00	1564
111.00	19464	189.00	3023	274.00	11847	425.00	282
112.00	2190	190.00	414	275.00	64120	441.00	21320
113.00	1002	191.00	2321	276.00	8383	442.00	148032
114.00	393	192.00	4136	277.00	5464	443.00	27928
115.00	210	193.00	4407	278.00	977	444.00	2411
116.00	4296	194.00	1009	279.00	154	445.00	61

Report Date: 15-Aug-2023 11:20:11 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

Breakdown Report

Data File:	\\Organics\HH\chem\msd10.i\10081423.b\10081401.D		
Injection Date:	14-Aug-2023 09:28:30	Inst. ID:	msd10.i
Client ID:	DFTPPAA	Lab ID:	SVMS 6559
Sample Info:	10081423.b, SVMS 6559		
Injection Vol.	1.00	Dil. Factor:	1.0
Operator:	JCG		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

5 4,4'-DDT

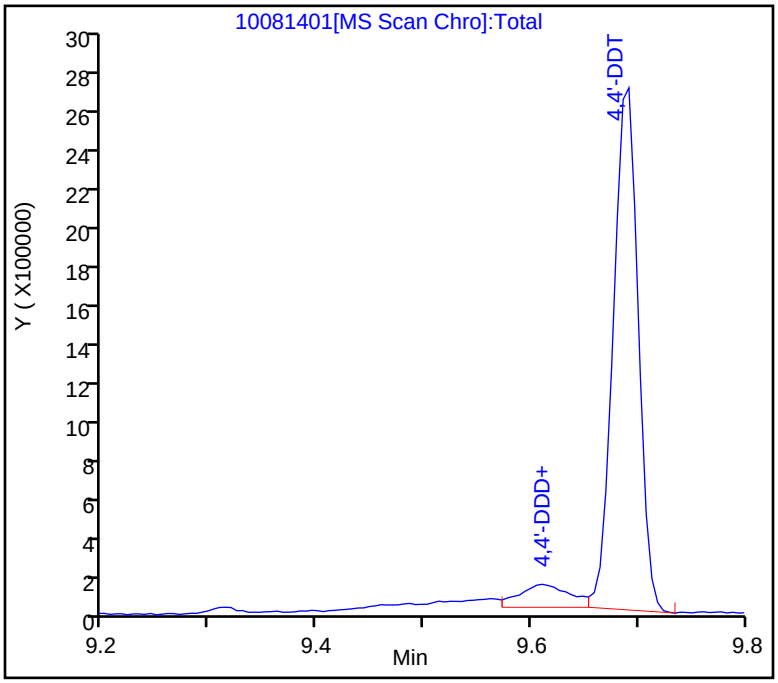
SW-846 Method

%Breakdown =
(Sum of Degrad. Peak Areas/
Total Area All Peaks) * 100

5 4,4'-DDT, Area = 607749 @ 9.69

6 4,4'-DDE, Area = 822 @ 9.43
4 4,4'-DDD, Area = 7166 @ 9.31

%Breakdown:1.3%, Max Limit:20%
Passed



Pace Environmental Services, LLC

Peak Tailing Report

Data File:	\\Organics\HH\chem\msd10.i\10081423.b\10081401.D		
Injection Date:	14-Aug-2023 09:28:30	Inst. ID:	msd10.i
Client ID:	DFTPPAA	Lab ID:	SVMS 6559
Sample Info:	10081423.b, SVMS 6559		
Injection Vol.	1.00	Dil. Factor:	1.0
Operator:	JCG		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

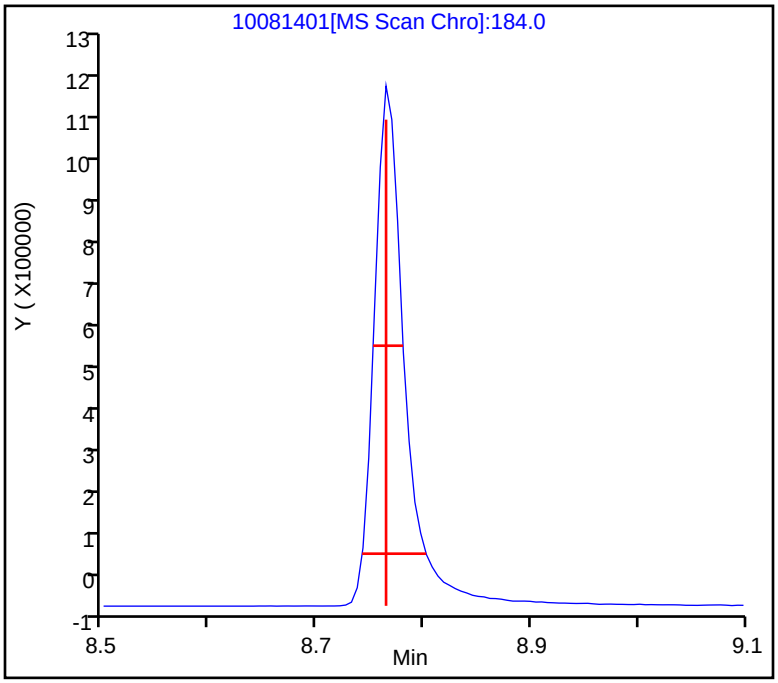
3 Benzidine

SW-846 Method

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.037 (min.)
Front Width = 0.022 (min.)

Tailing Factor = 1.68, Max. Tailing < 2.00
Passed



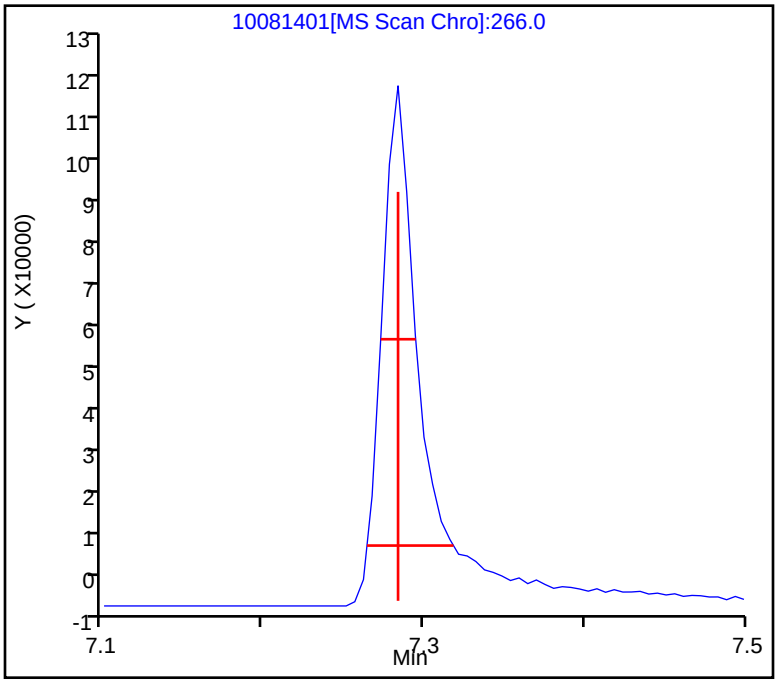
2 Pentachlorophenol

SW-846 Method

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.034 (min.)
Front Width = 0.019 (min.)

Tailing Factor = 1.79, Max. Tailing < 2.00
Passed



Semivolatile Organic Compounds by GC/MS - MB

Sample ID: YQ81478-001
Batch: 81478
Analytical Method: 8270E

Matrix: Aqueous
Prep Method: 3520C
Prep Date: 08/02/2023 1439

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Isosafrole	10	U	1	10	0.50	ug/L	08/14/2023 1643
Pentachloronitrobenzene	10	U	1	10	1.0	ug/L	08/14/2023 1643
Pronamide	10	U	1	10	1.5	ug/L	08/14/2023 1643

Surrogate	Q	% Rec	Acceptance Limit
2-Fluorobiphenyl		67	37-129
2-Fluorophenol		32	24-127
Nitrobenzene-d5		85	38-127
Phenol-d5		70	28-128
Terphenyl-d14		98	10-148
2,4,6-Tribromophenol		55	35-144

LOQ = Limit of Quantitation
DL = Detection Limit

U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria

N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Pace Environmental Services, LLC
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd10.i\10081423.b\10081418.D		
Lab Sample ID:	YQ81478-001	Client Sample ID:	SBLK78
Injection Date:	14-Aug-2023 16:43:30	Dil. Factor:	1.0
Operator:	JCG	Inst. ID:	msd10.i
Sample Info:	10081423.b, YQ81478-001		
Method:	\\Organics\HH\chem\msd10.i\10081423.b\8270DLVI-10.m		
Method Date:	15-Aug-2023 10:32:30	Quant Method:	ISTD
Calib Date:	14-Aug-2023 13:24:30	Calib File:	10081410.D
Sample Type:	BLANK	ALS Bottle:	15
Cpnd Sublist:	sample.sb		
Matrix/Level:	Water/Low		
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * (Uf * Vt/Vo)/Vi * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	250.00	Volume of sample extracted (mL)
Vi	5.0000	Volume injected (uL)
Cpnd Variable		Local Cpnd Variable

Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	jcg	Review Date:	15-Aug-2023 11:19:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Final Conc ug/L	Flags
* 16 1,4-Dichlorobenzene-d4	152.0	5.938	5.938	0.000	172368	20.000	20.000	
* 41 Naphthalene-d8	136.0	6.976	6.976	0.000	902630	20.000	20.000	
* 67 Acenaphthene-d10	164.0	8.452	8.452	0.000	450120	20.000	20.000	
* 102 Phenanthrene-d10	188.0	9.725	9.725	0.000	591760	20.000	20.000	
* 128 Chrysene-d12	240.0	12.629	12.629	0.000	266129	20.000	20.000	
* 136 Perylene-d12	264.0	14.918	14.924	-0.004	175650	20.000	20.000	
$ 6 2-Fluorophenol	112.0	4.949	4.949	0.000	41616	3.2088	2.5671	e
$ 9 Phenol-d5	99.0	5.596	5.596	0.000	121129	7.0150	5.6120	
$ 29 Nitrobenzene-d5	82.0	6.371	6.371	0.000	148390	8.4674	6.7739	
$ 56 2-Fluorobiphenyl	172.0	7.842	7.842	0.000	203573	6.6866	5.3493	
57 Isosafrole	131.0		7.890		ND			
$ 88 2,4,6-Tribromophenol	330.0	9.126	9.121	0.005	11253	5.5128	4.4102	
100 Pronamide	173.0		9.533		ND			
101 Pentachloronitrobenzene	237.0		9.554		ND			
$ 117 Terphenyl-d14	244.0	11.201	11.201	0.000	152315	9.7707	7.8165	

Compound Type Legend

* - ISTD

$ - Surrogate

QC Flag Legend

Processing Flags

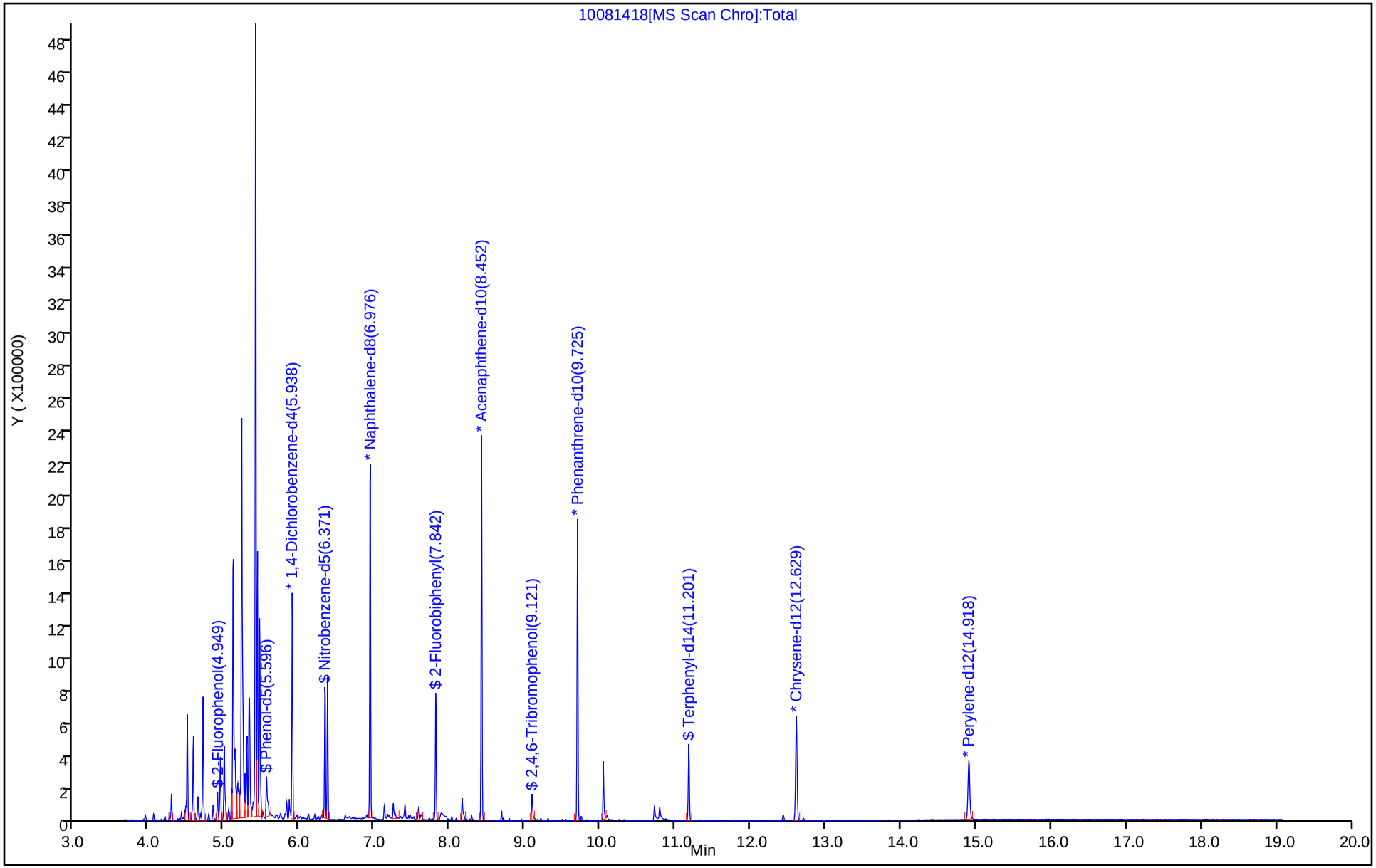
e - Compound Concentration Below Quantitation Limit

Review Flags

Report Date: 15-Aug-2023 11:20:23 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

Data File:	\\Organics\HH\chem\msd10.i\10081423.b\10081418.D				
Injection Date:	14-Aug-2023 16:43:30	Inst. ID:	msd10.i	Operator:	JCG
Client ID:	SBLK78	Lab ID:	YQ81478-001		
Sample Info:	10081423.b, YQ81478-001				
Injection Vol.	5.00 uL	Dil. Factor:	1.0		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan		



Pace Environmental Services, LLC

Resolution Report

Data File:	\\Organics\HH\chem\msd10.i\10081423.b\10081418.D		
Injection Date:	14-Aug-2023 16:43:30	Inst. ID:	msd10.i
Client ID:	SBLK78	Lab ID:	YQ81478-001
Sample Info:	10081423.b, YQ81478-001		
Injection Vol.	5.00 uL	Dil. Factor:	1.0
Operator:	JCG		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan

134 Benzo(k)fluoranthene @ 0.000 - 132 Benzo(b)fluoranthene @ 0.000

SW-846 Method
Version D

%Valley = (V / ((H1 + H2)/2)) * 100

V (Valley Height) = 0
H1(134 Benzo(k)fluoranthen) = 0
H2(132 Benzo(b)fluoranthen) = 0

%Valley = 0 <= 50
Passed

Semivolatile Organic Compounds by GC/MS - LCS

Sample ID: YQ81478-002
Batch: 81478
Analytical Method: 8270E

Matrix: Aqueous
Prep Method: 3520C
Prep Date: 08/02/2023 1439

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Isosafrole	16	11		1	66	30-130	08/14/2023 1709
Pentachloronitrobenzene	16	13		1	79	30-130	08/14/2023 1709
Pronamide	16	13		1	83	30-130	08/14/2023 1709

Surrogate	Q	% Rec	Acceptance Limit
2-Fluorobiphenyl		69	37-129
2-Fluorophenol		24	24-127
Nitrobenzene-d5		75	38-127
Phenol-d5		57	28-128
Terphenyl-d14		93	10-148
2,4,6-Tribromophenol		70	35-144

LOQ = Limit of Quantitation
DL = Detection Limit

U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria

N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Pace Environmental Services, LLC
Target Compound Quantitation Report

Data File: \\Organics\HH\chem\msd10.i\10081423.b\10081419.D
Lab Sample ID: YQ81478-002 Client Sample ID: SLCS78
Injection Date: 14-Aug-2023 17:09:30 Dil. Factor: 1.0
Operator: JCG Inst. ID: msd10.i
Sample Info: 10081423.b, YQ81478-002
Method: \\Organics\HH\chem\msd10.i\10081423.b\8270DLVI-10.m
Method Date: 15-Aug-2023 11:28:30 Quant Method: ISTD
Calib Date: 14-Aug-2023 13:24:30 Calib File: 10081410.D
Sample Type: LCS ALS Bottle: 16
Cpnd Sublist: sample.sb Spike List File: xtra.spk
Matrix/Level: Water/Low
Target 4.14 Integrator: falcon

Concentration Formula: Amt * DF * (Uf * Vt/Vo)/Vi * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	250.00	Volume of sample extracted (mL)
Vi	5.0000	Volume injected (uL)
Cpnd Variable		Local Cpnd Variable

Column1: ZebronZB-SV (0.25 mm) Detector: MS Scan
Data Reviewer: jcg Review Date: 15-Aug-2023 11:30:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Final Conc ug/L	Flags
* 16 1,4-Dichlorobenzene-d4	152.0	5.938	5.938	0.000	217991	20.000	20.000	
* 41 Naphthalene-d8	136.0	6.976	6.976	0.000	896595	20.000	20.000	
* 67 Acenaphthene-d10	164.0	8.452	8.452	0.000	426350	20.000	20.000	
* 102 Phenanthrene-d10	188.0	9.725	9.725	0.000	509464	20.000	20.000	
* 128 Chrysene-d12	240.0	12.629	12.629	0.000	235297	20.000	20.000	
* 136 Perylene-d12	264.0	14.918	14.924	-0.004	169212	20.000	20.000	
$ 6 2-Fluorophenol	112.0	4.954	4.949	0.005	39822	2.4279	1.9423	e
$ 9 Phenol-d5	99.0	5.601	5.596	0.006	124510	5.7017	4.5614	
$ 29 Nitrobenzene-d5	82.0	6.371	6.371	0.000	130098	7.4736	5.9789	
$ 56 2-Fluorobiphenyl	172.0	7.842	7.842	0.000	197537	6.8501	5.4801	
57 Isosafrole	131.0	7.890	7.890	0.000	41503	13.226	10.580	
$ 88 2,4,6-Tribromophenol	330.0	9.126	9.121	0.005	12296	6.9968	5.5974	
100 Pronamide	173.0	9.527	9.533	-0.005	135759	16.668	13.335	
101 Pentachloronitrobenzene	237.0	9.554	9.554	0.000	27517	15.819	12.655	e
$ 117 Terphenyl-d14	244.0	11.201	11.201	0.000	128797	9.3446	7.4757	

Compound Type Legend

* - ISTD
$ - Surrogate

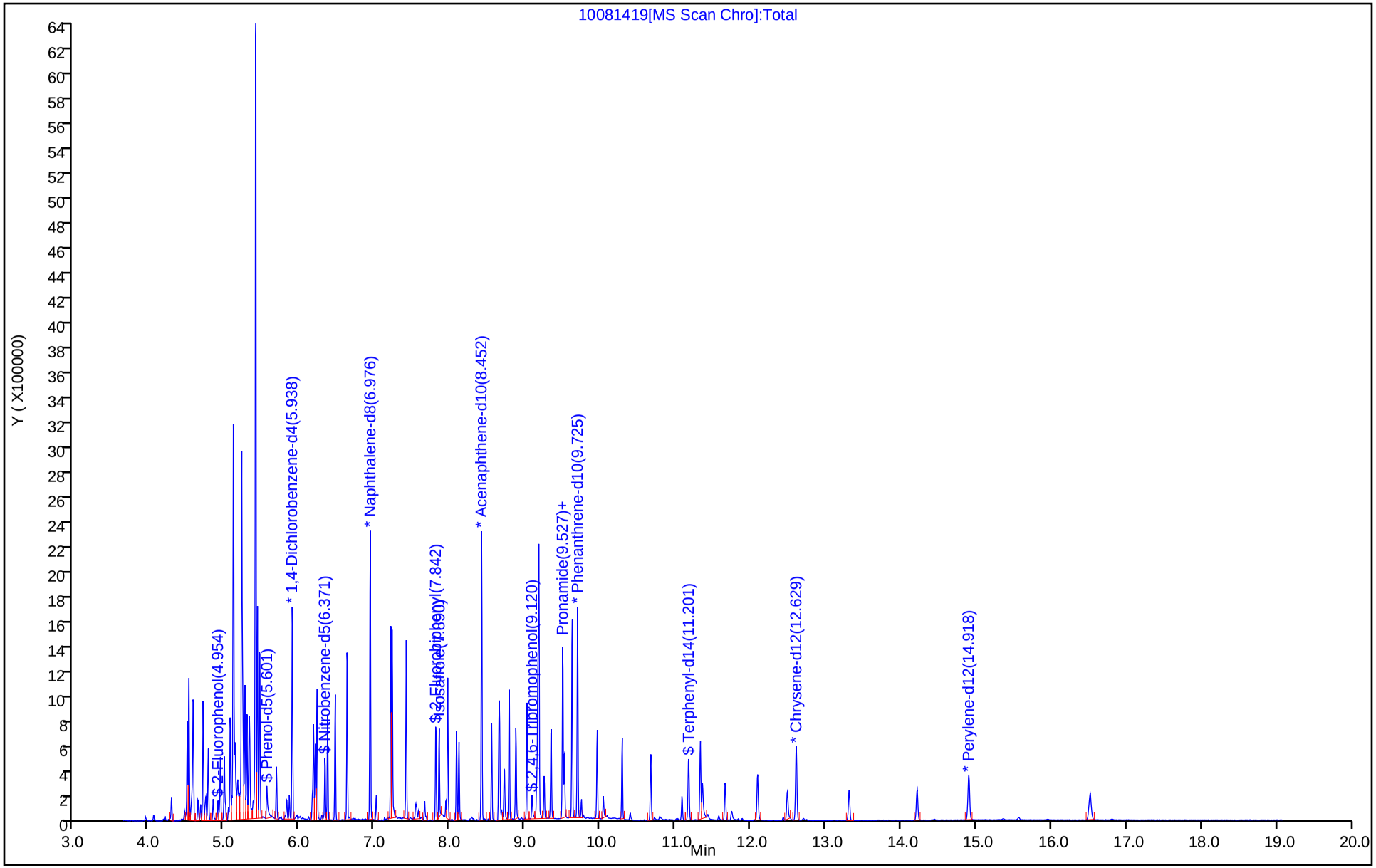
QC Flag Legend

Processing Flags
e - Compound Concentration Below Quantitation Limit
Review Flags

Report Date: 15-Aug-2023 11:30:20 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

Data File:	\\Organics\HH\chem\msd10.i\10081423.b\10081419.D				
Injection Date:	14-Aug-2023 17:09:30	Inst. ID:	msd10.i	Operator:	JCG
Client ID:	SLCS78	Lab ID:	YQ81478-002		
Sample Info:	10081423.b, YQ81478-002				
Injection Vol.	5.00 uL	Dil. Factor:	1.0		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan		



Pace Environmental Services, LLC

Resolution Report

Data File:	\\Organics\HH\chem\msd10.i\10081423.b\10081419.D		
Injection Date:	14-Aug-2023 17:09:30	Inst. ID:	msd10.i
Client ID:	SLCS78	Lab ID:	YQ81478-002
Sample Info:	10081423.b, YQ81478-002		
Injection Vol.	5.00 uL	Dil. Factor:	1.0
Operator:	JCG		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan

134 Benzo(k)fluoranthene @ 0.000 - 132 Benzo(b)fluoranthene @ 0.000

SW-846 Method
Version D

%Valley = (V / ((H1 + H2)/2)) * 100

V (Valley Height) = 0
H1(134 Benzo(k)fluoranthen) = 0
H2(132 Benzo(b)fluoranthen) = 0

%Valley = 0 <= 50
Passed

Semivolatile Organic Compounds by GC/MS - MS

Sample ID: YG28002-004MS
Batch: 81478
Analytical Method: 8270E

Matrix: Aqueous
Prep Method: 3520C
Prep Date: 08/02/2023 1439

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Isosafrole	0.0	16	11		1	68	30-130	08/14/2023 2144
Pentachloronitrobenzene	0.0	16	13		1	79	30-130	08/14/2023 2144
Pronamide	0.0	16	14		1	85	30-130	08/14/2023 2144

Surrogate	Q	% Rec	Acceptance Limit
2-Fluorobiphenyl		71	37-129
2-Fluorophenol		26	24-127
Nitrobenzene-d5		76	38-127
Phenol-d5		61	28-128
Terphenyl-d14		97	10-148
2,4,6-Tribromophenol		73	35-144

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Pace Environmental Services, LLC
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd10.i\10081423.b\10081430.D		
Lab Sample ID:	YG28002-004MS	Client Sample ID:	
Injection Date:	14-Aug-2023 21:44:30	Dil. Factor:	1.0
Operator:	JCG	Inst. ID:	msd10.i
Sample Info:	10081423.b, YG28002-004MS		
Method:	\\Organics\HH\chem\msd10.i\10081423.b\8270DLVI-10.m		
Method Date:	15-Aug-2023 11:28:30	Quant Method:	ISTD
Calib Date:	14-Aug-2023 13:24:30	Calib File:	10081410.D
Sample Type:	MS	ALS Bottle:	27
Cpnd Sublist:	sample.sb	Spike List File:	xtra.spk
Matrix/Level:	Water/Low		
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * (Uf * Vt/Vo)/Vi * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	250.00	Volume of sample extracted (mL)
Vi	5.0000	Volume injected (uL)
Cpnd Variable		Local Cpnd Variable

Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	jcg	Review Date:	15-Aug-2023 11:29:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Final Conc ug/L	Flags
* 16 1,4-Dichlorobenzene-d4	152.0	5.938	5.938	0.000	205760	20.000	20.000	
* 41 Naphthalene-d8	136.0	6.976	6.976	0.000	899824	20.000	20.000	
* 67 Acenaphthene-d10	164.0	8.452	8.452	0.000	420846	20.000	20.000	
* 102 Phenanthrene-d10	188.0	9.725	9.725	0.000	509868	20.000	20.000	
* 128 Chrysene-d12	240.0	12.629	12.629	0.000	223904	20.000	20.000	
* 136 Perylene-d12	264.0	14.918	14.924	-0.004	168754	20.000	20.000	
$ 6 2-Fluorophenol	112.0	4.954	4.949	0.005	39894	2.5769	2.0615	e
$ 9 Phenol-d5	99.0	5.601	5.596	0.006	125063	6.0675	4.8540	
$ 29 Nitrobenzene-d5	82.0	6.371	6.371	0.000	133072	7.6170	6.0936	
$ 56 2-Fluorobiphenyl	172.0	7.842	7.842	0.000	202166	7.1023	5.6818	
57 Isosafrole	131.0	7.890	7.890	0.000	42387	13.684	10.947	e
$ 88 2,4,6-Tribromophenol	330.0	9.126	9.121	0.005	12802	7.2789	5.8231	
100 Pronamide	173.0	9.532	9.533	0.000	138684	17.014	13.611	e
101 Pentachloronitrobenzene	237.0	9.554	9.554	0.000	27532	15.815	12.652	e
$ 117 Terphenyl-d14	244.0	11.201	11.201	0.000	127803	9.7443	7.7955	

Compound Type Legend

* - ISTD

$ - Surrogate

QC Flag Legend

Processing Flags

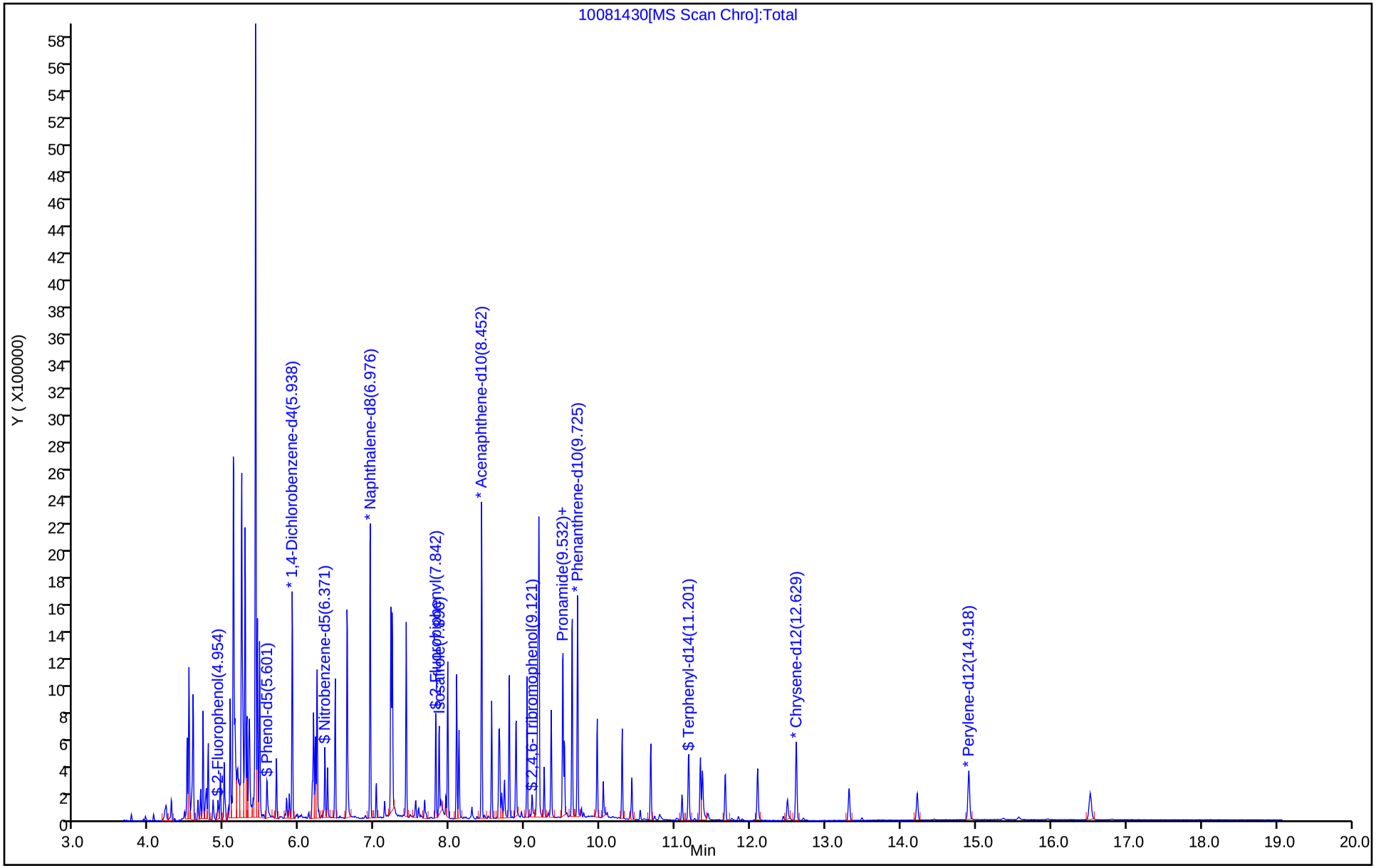
e - Compound Concentration Below Quantitation Limit

Review Flags

Report Date: 15-Aug-2023 11:30:05 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

Data File:	\\Organics\HH\chem\msd10.i\10081423.b\10081430.D				
Injection Date:	14-Aug-2023 21:44:30	Inst. ID:	msd10.i	Operator:	JCG
Client ID:		Lab ID:	YG28002-004MS		
Sample Info:	10081423.b, YG28002-004MS				
Injection Vol.	5.00 uL	Dil. Factor:	1.0		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan		



Pace Environmental Services, LLC

Resolution Report

Data File:	\\Organics\HH\chem\msd10.i\10081423.b\10081430.D		
Injection Date:	14-Aug-2023 21:44:30	Inst. ID:	msd10.i
Client ID:		Lab ID:	YG28002-004MS
Sample Info:	10081423.b, YG28002-004MS		
Injection Vol.	5.00 uL	Dil. Factor:	1.0
Operator:	JCG		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan

134 Benzo(k)fluoranthene @ 0.000 - 132 Benzo(b)fluoranthene @ 0.000

SW-846 Method
Version D

%Valley = (V / ((H1 + H2)/2)) * 100

V (Valley Height) = 0
H1(134 Benzo(k)fluoranthen) = 0
H2(132 Benzo(b)fluoranthen) = 0

%Valley = 0 <= 50
Passed

Semivolatile Organic Compounds by GC/MS - MSD

Sample ID: YG28002-004MD
Batch: 81478
Analytical Method: 8270E

Matrix: Aqueous
Prep Method: 3520C
Prep Date: 08/02/2023 1439

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
Isosafrole	0.0	16	11		1	66	3.1	30-130	40	08/14/2023 2209
Pentachloronitrobenzene	0.0	16	14		1	86	8.7	30-130	40	08/14/2023 2209
Pronamide	0.0	16	14		1	91	6.3	30-130	40	08/14/2023 2209

Surrogate	Q	% Rec	Acceptance Limit
2-Fluorobiphenyl		74	37-129
2-Fluorophenol		30	24-127
Nitrobenzene-d5		80	38-127
Phenol-d5		62	28-128
Terphenyl-d14		104	10-148
2,4,6-Tribromophenol		74	35-144

LOQ = Limit of Quantitation
DL = Detection Limit
U = Not detected at or above the LOQ
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Report Date: 15-Aug-2023 11:30:05 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC
Target Compound Quantitation Report

Data File: \\Organics\HH\chem\msd10.i\10081423.b\10081431.D
Lab Sample ID: YG28002-004MD Client Sample ID:
Injection Date: 14-Aug-2023 22:09:30 Dil. Factor: 1.0
Operator: JCG Inst. ID: msd10.i
Sample Info: 10081423.b, YG28002-004MD
Method: \\Organics\HH\chem\msd10.i\10081423.b\8270DLVI-10.m
Method Date: 15-Aug-2023 11:28:30 Quant Method: ISTD
Calib Date: 14-Aug-2023 13:24:30 Calib File: 10081410.D
Sample Type: MSD ALS Bottle: 28
Cpnd Sublist: sample.sb Spike List File: xtra.spk
Matrix/Level: Water/Low
Target 4.14 Integrator: falcon

Concentration Formula: Amt * DF * (Uf * Vt/Vo)/Vi * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	250.00	Volume of sample extracted (mL)
Vi	5.0000	Volume injected (uL)
Cpnd Variable		Local Cpnd Variable

Column1: ZebronZB-SV (0.25 mm) Detector: MS Scan
Data Reviewer: jcg Review Date: 15-Aug-2023 11:30:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Final Conc ug/L	Flags
* 16 1,4-Dichlorobenzene-d4	152.0	5.938	5.938	0.000	197864	20.000	20.000	
* 41 Naphthalene-d8	136.0	6.976	6.976	0.000	861455	20.000	20.000	
* 67 Acenaphthene-d10	164.0	8.452	8.452	0.000	400528	20.000	20.000	
* 102 Phenanthrene-d10	188.0	9.725	9.725	0.000	489314	20.000	20.000	
* 128 Chrysene-d12	240.0	12.629	12.629	0.000	214487	20.000	20.000	
* 136 Perylene-d12	264.0	14.919	14.924	-0.004	158444	20.000	20.000	
$ 6 2-Fluorophenol	112.0	4.954	4.949	0.006	44191	2.9683	2.3747	e
$ 9 Phenol-d5	99.0	5.601	5.596	0.006	123750	6.2433	4.9947	
$ 29 Nitrobenzene-d5	82.0	6.371	6.371	0.000	133748	7.9967	6.3973	
$ 56 2-Fluorobiphenyl	172.0	7.842	7.842	0.000	201312	7.4311	5.9448	
57 Isosafrole	131.0	7.890	7.890	0.000	39117	13.269	10.615	e
$ 88 2,4,6-Tribromophenol	330.0	9.121	9.121	0.000	12488	7.3987	5.9189	
100 Pronamide	173.0	9.532	9.533	0.000	141755	18.121	14.497	e
101 Pentachloronitrobenzene	237.0	9.554	9.554	0.000	28815	17.248	13.798	e
$ 117 Terphenyl-d14	244.0	11.201	11.201	0.000	130752	10.407	8.3255	

Compound Type Legend

* - ISTD
$ - Surrogate

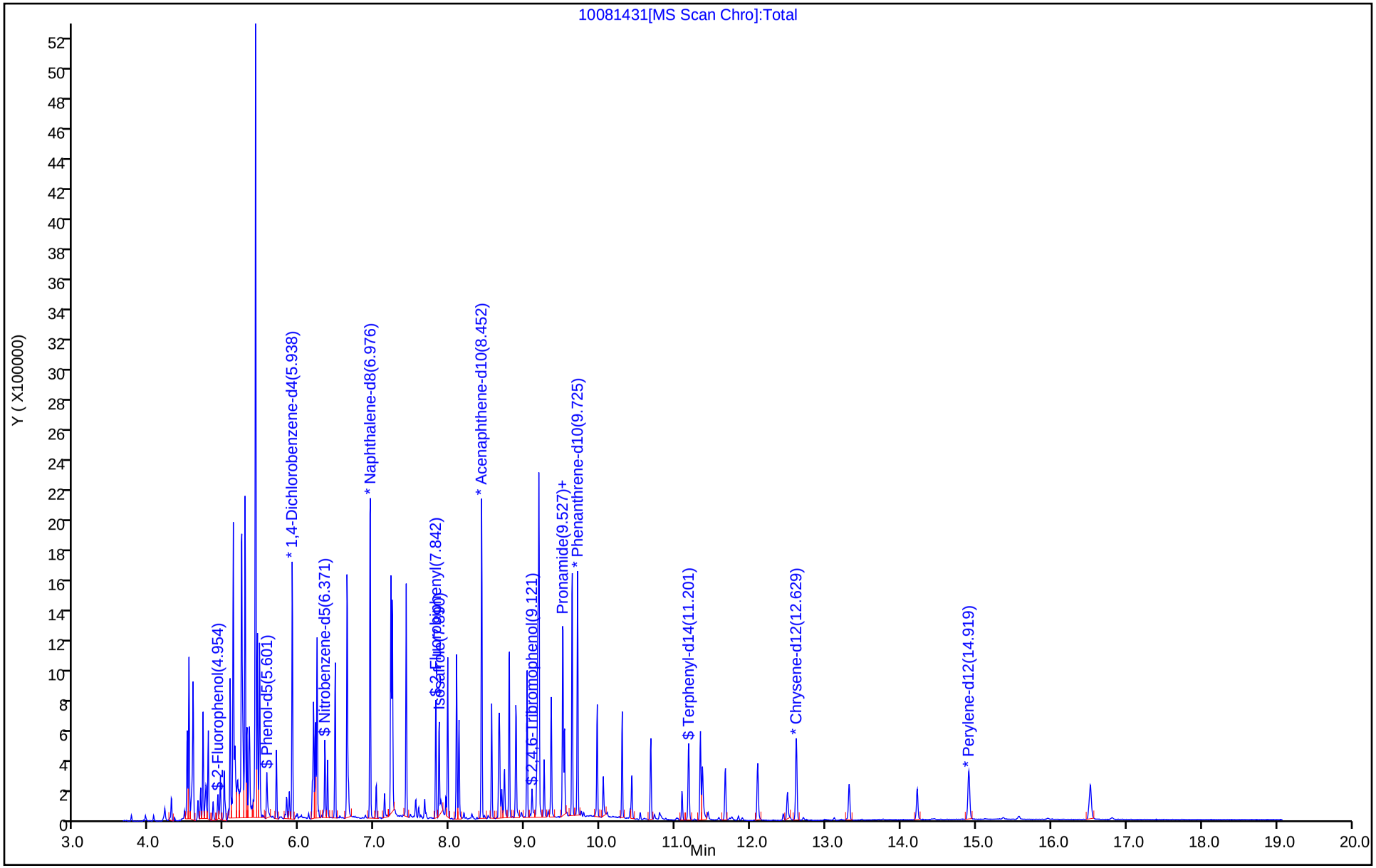
QC Flag Legend

Processing Flags
e - Compound Concentration Below Quantitation Limit
Review Flags

Report Date: 15-Aug-2023 11:30:05 AIM Revision: 1.0 07-Jul-2023 13:11:40

Pace Environmental Services, LLC

Data File:	\\Organics\HH\chem\msd10.i\10081423.b\10081431.D				
Injection Date:	14-Aug-2023 22:09:30	Inst. ID:	msd10.i	Operator:	JCG
Client ID:		Lab ID:	YG28002-004MD		
Sample Info:	10081423.b, YG28002-004MD				
Injection Vol.	5.00 uL	Dil. Factor:	1.0		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan		



Pace Environmental Services, LLC

Resolution Report

Data File:	\\Organics\HH\chem\msd10.i\10081423.b\10081431.D		
Injection Date:	14-Aug-2023 22:09:30	Inst. ID:	msd10.i
Client ID:		Lab ID:	YG28002-004MD
Sample Info:	10081423.b, YG28002-004MD		
Injection Vol.	5.00 uL	Dil. Factor:	1.0
Operator:	JCG		
Column1:	ZebronZB-SV (0.25 mm)	Detector:	MS Scan

134 Benzo(k)fluoranthene @ 0.000 - 132 Benzo(b)fluoranthene @ 0.000

SW-846 Method
Version D

%Valley = (V / ((H1 + H2)/2)) * 100

V (Valley Height) = 0
H1(134 Benzo(k)fluoranthen) = 0
H2(132 Benzo(b)fluoranthen) = 0

%Valley = 0 <= 50
Passed

MISC. DATA

Pace Environmental Services, LLC
Run Log Report

Batch Path: \\Organics\HH\chem\msd10.i\10080323B.b
Inst. ID: msd10.i Method: 8270DLVI-10
Matrix: Soil Operator: JCG
Srch Tics: Yes Quant Tics: Yes Maximum Tics: 20

ALS Vial	Lab Sample ID	Injection Date/Time	Data File	Sample Type	ICal Lvl	Client Sample ID	Matrix	Dil Fact	Sublist	SpikeList	Rpt Tics	Tics Det.	MS Tune	Inst QC	pH	Std Lot#	Comments	Method
96	SVMS 6559	03-Aug-2023 14:17:30	100803B01.D	DFTPP		DFTPPQA	Water	1	all				Yes	Yes				8270E-tun
100	23-1378	03-Aug-2023 14:33:30	100803B02.D	Client			Soil	1	1STD					Yes				8270DLVI-10
1	SVMS 6673	03-Aug-2023 14:58:30	100803B03.D	Ical	1	1STD00.2QB	Soil	1	PAH+					Yes			std 1 ICAL	8270DLVI-10
2	SVMS 6674	03-Aug-2023 15:23:30	100803B04.D	Ical	2	1STD001QB	Soil	1	1STD					Yes				8270DLVI-10
3	SVMS 6675	03-Aug-2023 15:48:30	100803B05.D	Ical	3	1STD002QB	Soil	1	1STD					Yes				8270DLVI-10
4	SVMS 6676	03-Aug-2023 16:12:30	100803B06.D	Ical	4	1STD005QB	Soil	1	1STD					Yes				8270DLVI-10
5	SVMS 6677	03-Aug-2023 16:37:30	100803B07.D	Ical	5	1STD010QB	Soil	1	1STD					Yes				8270DLVI-10
6	SVMS 6678	03-Aug-2023 17:02:30	100803B08.D	Ical	6	1STD015QB	Soil	1	1STD					Yes				8270DLVI-10
7	SVMS 6679	03-Aug-2023 17:27:30	100803B09.D	Ical	7	1STD020QB	Soil	1	1STD					Yes				8270DLVI-10
8	SVMS 6680	03-Aug-2023 17:52:30	100803B10.D	Ical	8	1STD025QB	Soil	1	1STD					Yes				8270DLVI-10
9	SVMS 6681	03-Aug-2023 18:17:30	100803B11.D	Ical	9	1STD030QB	Soil	1	1STD					Yes				8270DLVI-10
10	SVMS 6682	03-Aug-2023 18:42:30	100803B12.D	LCS		1STDICV	Soil	1	1STD	ICV1DOD				Yes			2,4 DMP high	8270DLVI-10
11	SVMS 6576	03-Aug-2023 19:06:30	100803B13.D	Ical	2	3STD001QC	Soil	1	3STD					Yes				8270DLVI-10
12	SVMS 6577	03-Aug-2023 19:31:30	100803B14.D	Ical	3	3STD002QC	Soil	1	3STD					Yes			std 3 ICAL	8270DLVI-10
13	SVMS 6578	03-Aug-2023 19:56:30	100803B15.D	Ical	4	3STD005QC	Soil	1	3STD					Yes				8270DLVI-10
14	SVMS 6579	03-Aug-2023 20:21:30	100803B16.D	Ical	5	3STD010QC	Soil	1	3STD					Yes				8270DLVI-10
15	SVMS 6580	03-Aug-2023 20:46:30	100803B17.D	Ical	6	3STD015QC	Soil	1	3STD					Yes				8270DLVI-10
16	SVMS 6581	03-Aug-2023 21:10:30	100803B18.D	Ical	7	3STD020QC	Soil	1	3STD					Yes				8270DLVI-10
17	SVMS 6582	03-Aug-2023 21:35:30	100803B19.D	Ical	8	3STD025QC	Soil	1	3STD					Yes				8270DLVI-10
18	SVMS 6583	03-Aug-2023 22:00:30	100803B20.D	Ical	9	3STD030QC	Soil	1	3STD					Yes				8270DLVI-10
19	SVMS 6584	03-Aug-2023 22:25:30	100803B21.D	LCS		3STDICV	Soil	1	3STD	ICV2DOD				Yes				8270DLVI-10
20	YQ80822-002	03-Aug-2023 22:49:30	100803B22.D	LCS		SLCS22	Water	1	sample	625				Yes				8270DLVI-10
21	YG10032-002	03-Aug-2023 23:14:30	100803B23.D	Client		Base Neutrals	Water	5	sample					Yes			81179	8270DLVI-10
22	YG10032-003	03-Aug-2023 23:39:30	100803B24.D	Client		Acids	Water	5	sample					Yes				8270DLVI-10
23	YG18055-003	04-Aug-2023 00:03:30	100803B25.D	Client		POTW.230718-003	Water	1	sample					Yes				8270DLVI-10
24	YG18070-001	04-Aug-2023 00:28:30	100803B26.D	Client		001	Water	1	sample					Yes				8270DLVI-10
25	YG21027-003	04-Aug-2023 00:52:30	100803B27.D	Client		Sampling point C_07	Water	1	sample					Yes				8270DLVI-10

Pace Environmental Services, LLC
Run Log Report

Batch Path: \\Organics\HH\chem\msd10.i\10081423.b
Inst. ID: msd10.i Method: 8270DLVI-10
Matrix: Soil Operator: JCG
Srch Tics: Yes Quant Tics: Yes Maximum Tics: 20

ALS Vial	Lab Sample ID	Injection Date/Time	Data File	Sample Type	ICal Lvl	Client Sample ID	Matrix	Dil Fact	Sublist	SpikeList	Rpt Tics	Tics Det.	MS Tune	Inst QC	pH	Std Lot#	Comments	Method
96	SVMS 6559	14-Aug-2023 09:28:30	10081401.D	DFTPP		DFTPPAA	Water	1	all				Yes	Yes				8270E-tun
97	SVMS 6677	14-Aug-2023 10:05:30	10081402.D	Ccv		1STD010AB	Soil	1	1STD					Yes				8270DLVI-10
98	SVMS 6581	14-Aug-2023 10:30:30	10081403.D	Ccv		3STD020AC	Soil	1	3STD					Yes				8270DLVI-10
1	SVMS 6664	14-Aug-2023 10:55:30	10081404.D	Ical	2	2STD001AD	Soil	1	MIX2,4,5					Yes				8270DLVI-10
2	SVMS 6665	14-Aug-2023 11:19:30	10081405.D	Ical	3	2STD002AD	Soil	1	MIX2,4,5					Yes			app9 ICAL	8270DLVI-10
3	SVMS 6666	14-Aug-2023 11:44:30	10081406.D	Ical	4	2STD005AD	Soil	1	MIX2,4,5					Yes				8270DLVI-10
4	SVMS 6667	14-Aug-2023 12:09:30	10081407.D	Ical	5	2STD010AD	Soil	1	MIX2,4,5					Yes				8270DLVI-10
5	SVMS 6668	14-Aug-2023 12:34:30	10081408.D	Ical	6	2STD015AD	Soil	1	MIX2,4,5					Yes				8270DLVI-10
6	SVMS 6669	14-Aug-2023 12:59:30	10081409.D	Ical	7	2STD020Ad	Soil	1	MIX2,4,5					Yes				8270DLVI-10
7	SVMS 6670	14-Aug-2023 13:24:30	10081410.D	Ical	8	2STD025AD	Soil	1	MIX2,4,5					Yes				8270DLVI-10
8	SVMS 6671	14-Aug-2023 13:48:30	10081411.D	BLANK		2STDICV	Soil	1	MIX2,4,5					Yes				8270DLVI-10
9	SVMS 6675	14-Aug-2023 14:13:30	10081412.D	Client		LLCheck	Soil	1	1STD					Yes				8270DLVI-10
10	YQ80003-001	14-Aug-2023 14:38:30	10081413.D	BLANK		SBLK03	Water	1	sample					Yes			ss 81073	8270DLVI-10
11	YQ80003-002	14-Aug-2023 15:03:30	10081414.D	LCS		SLCS03	Water	1	sample	8270water				Yes			low	8270DLVI-10
12	YQ81473-001	14-Aug-2023 15:28:30	10081415.D	BLANK		SBLK73	Water	1	sample					Yes			82400	8270DLVI-10
13	YQ81473-002	14-Aug-2023 15:53:30	10081416.D	LCS		SLCS73	Water	1	sample	8270water				Yes				8270DLVI-10
14	YQ81473-003	14-Aug-2023 16:18:30	10081417.D	LCSD		SLCSD73	Water	1	sample	8270water				Yes				8270DLVI-10
15	YQ81478-001	14-Aug-2023 16:43:30	10081418.D	BLANK		SBLK78	Water	1	sample					Yes			82409	8270DLVI-10
16	YQ81478-002	14-Aug-2023 17:09:30	10081419.D	LCS		SLCS78	Water	1	sample	xtra				Yes				8270DLVI-10
17	YG07046-001	14-Aug-2023 17:34:30	10081420.D	Client		SW-East-1	Water	1	sample					Yes				8270DLVI-10
18	YG07046-002	14-Aug-2023 17:59:30	10081421.D	Client		SW-West-1	Water	10	sample					Yes				8270DLVI-10
19	YG07046-001	14-Aug-2023 18:24:30	10081422.D	Client		SW-East-1	Water	1	sample					Yes				8270DLVI-10
20	YG07046-002	14-Aug-2023 18:49:30	10081423.D	Client		SW-West-1	Water	10	sample					Yes				8270DLVI-10
21	YG28002-001	14-Aug-2023 19:14:30	10081424.D	Client		16C1	Water	1	sample					Yes				8270DLVI-10
22	YG28002-002	14-Aug-2023 19:39:30	10081425.D	Client		16MW8	Water	1	sample					Yes				8270DLVI-10
23	YG28002-003	14-Aug-2023 20:04:30	10081426.D	Client		16MW9	Water	1	sample					Yes				8270DLVI-10
24	YG28002-004	14-Aug-2023 20:29:30	10081427.D	Client		16WC1A	Water	1	sample					Yes				8270DLVI-10
25	YG28002-005	14-Aug-2023 20:54:30	10081428.D	Client		16WDUP	Water	1	sample					Yes				8270DLVI-10
26	YG28002-006	14-Aug-2023 21:19:30	10081429.D	Client		16WC1B	Water	1	sample					Yes				8270DLVI-10
27	YG28002-004MS	14-Aug-2023 21:44:30	10081430.D	MS			Water	1	sample	xtra				Yes				8270DLVI-10
28	YG28002-004MD	14-Aug-2023 22:09:30	10081431.D	MSD			Water	1	sample	xtra				Yes				8270DLVI-10
29	STD 4 CHECK	14-Aug-2023 22:34:30	10081432.D	Client			Soil	1	MIX2,4,5					Yes				8270DLVI-10
100	23-1378	14-Aug-2023 22:59:30	10081433.D	Client			Soil	1	1STD					Yes				8270DLVI-10
100	23-1378	14-Aug-2023 23:24:30	10081434.D	Client			Soil	1	1STD					Yes				8270DLVI-10
100	23-1378	14-Aug-2023 23:48:30	10081435.D	Client			Soil	1	1STD					Yes				8270DLVI-10
100	23-1378	15-Aug-2023 00:13:30	10081436.D	Client			Soil	1	1STD					Yes				8270DLVI-10

Analyst: CLJ **Level 2 Analyst:** JBK

Status: Level 2 review released

Matrix: Aqueous

Printed: 09/15/23 1006

Prep Batch: 81478

3520C RVE (1.0 mL FV) - Continuous Liquid-Liquid Extraction

Acid Start Date: 08/02/2023 1439
Acid End Date: 08/03/2023 0839
Ext Solvent: CH2Cl2 > CH2Cl2
Reagents Vol. (mL): 290
Chem ID: 23-1348>23-1348

Base Start Date: 08/03/2023 1141
Base End Date: 08/04/2023 0727

Conc Analyst: BFP
Conc Start Date: 08/04/2023 0833
Conc End Date: 08/04/2023 0945

Sodium Sulfate ID: extr-6741

Surrogate: extw-6697exp012524
Surrogate Vol. (mL): 0.1

Sample ID	QC Code	Client Sample ID	Run	Analysis Method	Initial Vol. (mL)	Spike ID	Spike Vol. (mL)	Final Vol. (mL)	Adj. pH (SU)	Adj. pH 2	Comments
YQ81478-001	MB		1	8270E	250		0.0	1.0	<2	>11	Witness: JBK
YQ81478-002	LCS		1	8270E	250	extw-6661exp0120	0.0	1.0	<2	>11	extw-6663exp012024/extw-6662exp012024 @40uL
YG28002-001	Sample	16C1	1	8270E	250		0.0	1.0	<2	>11	Boiling Chips: extr-6747/Glass Wool: 22-2533/pH Strips: 23-1513/1:1 H2SO4: extr-6581/10N NaOH: extr-6736exp120523
YG28002-002	Sample	16MW8	1	8270E	250		0.0	1.0	<2	>11	
YG28002-003	Sample	16MW9	1	8270E	250		0.0	1.0	<2	>11	
YG28002-004	Sample	16WC1A	1	8270E	250		0.0	1.0	<2	>11	
YG28002-004MS	MS		1	8270E	250	extw-6661exp0120	0.0	1.0	<2	>11	extw-6663exp012024/extw-6662exp012024 @40uL
YG28002-004MD	MSD		1	8270E	250	extw-6661exp0120	0.0	1.0	<2	>11	extw-6663exp012024/extw-6662exp012024 @40uL
YG28002-005	Sample	16WDUP	1	8270E	250		0.0	1.0	<2	>11	
YG28002-006	Sample	16WC1B	1	8270E	250		0.0	1.0	<2	>11	

(end of report) **Total Samples: 6**

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF GENERAL SERVICES
DIVISION OF CONSOLIDATED LABORATORY SERVICES

Certifies that

VA Laboratory ID#: 460182
Eurofins Lancaster Laboratories Environment Testing, LLC

2425 New Holland Pike
Lancaster, PA 17601

Owner: EUROFINS LANCASTER LABORATORIES ENVIRONMENT TESTING, LLC
Responsible Official: PAUL A. WISE

Having met the requirements of 1 VAC 30-46 and
having been found compliant with the 2016 TNI Standard approved by The NELAC Institute
is hereby approved as an

Accredited Environmental Laboratory

As more fully described in the attached Scope of Accreditation

Effective Date: **July 15, 2023**
Expiration Date: **June 14, 2024**
Certificate # 12574

Marilyn Bibbs Freeman, Ph.D., M(ASCP)
DCLS Deputy Director

Continued accreditation status depends on successful ongoing participation in the program.
Certificate to be conspicuously displayed at the laboratory.
Not valid unless accompanied by a valid Virginia Environmental Laboratory Accreditation Program (VELAP) Scope of Accreditation.
Customers are urged to verify the laboratory's current accreditation status.

Certificate Not Transferable

Surrender Upon Revocation

Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services

Scope of Accreditation

VELAP Certificate No.: 12574

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

Virginia Laboratory ID: 460182
Effective Date: July 15, 2023
Expiration Date: June 14, 2024

AIR

METHOD	ANALYTE	PRIMARY
EPA 18	TOTAL GASEOUS ORGANIC COMPOUNDS	LA DEQ
EPA TO-15 2nd Ed.	1,1,1-TRICHLOROETHANE	LA DEQ
EPA TO-15 2nd Ed.	1,1,2-TRICHLORO-1,2,2-TRIFLUORO ETHANE (FREON 113)	LA DEQ
EPA TO-15 2nd Ed.	1,1-DICHLOROETHANE	LA DEQ
EPA TO-15 2nd Ed.	1,2,4-TRICHLOROBENZENE	LA DEQ
EPA TO-15 2nd Ed.	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	LA DEQ
EPA TO-15 2nd Ed.	1,2-DICHLORO-1,1,2,2-TETRAFLUOR OETHANE (FREON-114)	LA DEQ
EPA TO-15 2nd Ed.	1,2-DICHLOROETHANE (ETHYLENE DICHLORIDE)	LA DEQ
EPA TO-15 2nd Ed.	1,3,5-TRIMETHYLBENZENE	LA DEQ
EPA TO-15 2nd Ed.	1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	LA DEQ
EPA TO-15 2nd Ed.	1,4-DIOXANE (P-DIOXANE /1,4-DIETHYLENEOXIDE)	LA DEQ
EPA TO-15 2nd Ed.	4-METHYL-2-PENTANONE (METHYL ISOBUTYL KETONE, MIBK)	LA DEQ
EPA TO-15 2nd Ed.	ACROLEIN (PROPENAL)	LA DEQ
EPA TO-15 2nd Ed.	ALLYL CHLORIDE (3-CHLOROPROPENE)	LA DEQ
EPA TO-15 2nd Ed.	BENZYL CHLORIDE	LA DEQ
EPA TO-15 2nd Ed.	BROMOFORM	LA DEQ
EPA TO-15 2nd Ed.	CARBON TETRACHLORIDE	LA DEQ
EPA TO-15 2nd Ed.	CHLORODIBROMOMETHANE	LA DEQ
EPA TO-15 2nd Ed.	CHLOROFORM	LA DEQ
EPA TO-15 2nd Ed.	CIS-1,3-DICHLOROPROPENE	LA DEQ
EPA TO-15 2nd Ed.	DICHLORODIFLUOROMETHANE (FREON-12)	LA DEQ
EPA TO-15 2nd Ed.	ETHYL ACRYLATE	LA DEQ
EPA TO-15 2nd Ed.	HEXACHLOROBUTADIENE (1,3-HEXACHLOROBUTADIENE)	LA DEQ
EPA TO-15 2nd Ed.	IODOMETHANE (METHYL IODIDE)	LA DEQ
EPA TO-15 2nd Ed.	M+P-XYLENE	LA DEQ
EPA TO-15 2nd Ed.	METHYL CHLORIDE (CHLOROMETHANE)	LA DEQ
EPA TO-15 2nd Ed.	METHYL TERT-BUTYL ETHER (MTBE)	LA DEQ
EPA TO-15 2nd Ed.	N-HEPTANE	LA DEQ
EPA TO-15 2nd Ed.	O-XYLENE	LA DEQ
EPA TO-15 2nd Ed.	STYRENE	LA DEQ

METHOD	ANALYTE	PRIMARY
EPA 25	TOTAL GASEOUS NONMETHANE ORGANIC COMPOUNDS (TGNMO)	LA DEQ
EPA TO-15 2nd Ed.	1,1,2,2-TETRACHLOROETHANE	LA DEQ
EPA TO-15 2nd Ed.	1,1,2-TRICHLOROETHANE	LA DEQ
EPA TO-15 2nd Ed.	1,1-DICHLOROETHYLENE	LA DEQ
EPA TO-15 2nd Ed.	1,2,4-TRIMETHYLBENZENE	LA DEQ
EPA TO-15 2nd Ed.	1,2-DIBROMOETHANE (EDB, ETHYLENE DIBROMIDE)	LA DEQ
EPA TO-15 2nd Ed.	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	LA DEQ
EPA TO-15 2nd Ed.	1,2-DICHLOROPROPANE	LA DEQ
EPA TO-15 2nd Ed.	1,3-BUTADIENE	LA DEQ
EPA TO-15 2nd Ed.	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	LA DEQ
EPA TO-15 2nd Ed.	2-BUTANONE (METHYL ETHYL KETONE, MEK)	LA DEQ
EPA TO-15 2nd Ed.	ACETONITRILE	LA DEQ
EPA TO-15 2nd Ed.	ACRYLONITRILE	LA DEQ
EPA TO-15 2nd Ed.	BENZENE	LA DEQ
EPA TO-15 2nd Ed.	BROMODICHLOROMETHANE	LA DEQ
EPA TO-15 2nd Ed.	CARBON DISULFIDE	LA DEQ
EPA TO-15 2nd Ed.	CHLOROBENZENE	LA DEQ
EPA TO-15 2nd Ed.	CHLOROETHANE (ETHYL CHLORIDE)	LA DEQ
EPA TO-15 2nd Ed.	CIS-1,2-DICHLOROETHYLENE	LA DEQ
EPA TO-15 2nd Ed.	CYCLOHEXANE	LA DEQ
EPA TO-15 2nd Ed.	ETHYL ACETATE	LA DEQ
EPA TO-15 2nd Ed.	ETHYLBENZENE	LA DEQ
EPA TO-15 2nd Ed.	HEXACHLOROETHANE	LA DEQ
EPA TO-15 2nd Ed.	ISOPROPYLBENZENE	LA DEQ
EPA TO-15 2nd Ed.	METHYL BROMIDE (BROMOMETHANE)	LA DEQ
EPA TO-15 2nd Ed.	METHYL METHACRYLATE	LA DEQ
EPA TO-15 2nd Ed.	METHYLENE CHLORIDE (DICHLOROMETHANE)	LA DEQ
EPA TO-15 2nd Ed.	N-HEXANE	LA DEQ
EPA TO-15 2nd Ed.	PROPYLENE (PROPENE)	LA DEQ



Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services



Scope of Accreditation

VELAP Certificate No.: 12574

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

Virginia Laboratory ID: 460182
Effective Date: July 15, 2023
Expiration Date: June 14, 2024

AIR

METHOD	ANALYTE	PRIMARY
EPA TO-15 2nd Ed.	TETRACHLOROETHENE (PERCHLOROETHENE)	LA DEQ
EPA TO-15 2nd Ed.	TOLUENE	LA DEQ
EPA TO-15 2nd Ed.	TRANS-1,3-DICHLOROPROPENE (TRANS-1,3-DICHLOROPROPYLENE)	LA DEQ
EPA TO-15 2nd Ed.	TRICHLOROFLUOROMETHANE (FLUOROTRICHLOROMETHANE, FREON 11)	LA DEQ
EPA TO-15 2nd Ed.	VINYL BROMIDE (BROMOETHENE)	LA DEQ
EPA TO-15 2nd Ed.	XYLENE (TOTAL)	LA DEQ
EPA TO-15 2nd Ed. - EXTENDED	2-CHLOROTOLUENE	LA DEQ
EPA TO-15 2nd Ed. - EXTENDED	4-ETHYLTOLUENE	LA DEQ
EPA TO-15 2nd Ed. - EXTENDED	CHLORODIFLUOROMETHANE (FREON-22)	LA DEQ
EPA TO-15 2nd Ed. - EXTENDED	DICHLOROFLUOROMETHANE (FREON 21)	LA DEQ
EPA TO-15 2nd Ed. - EXTENDED	ETHYL-T-BUTYLETHER (2-ETHOXY-2-METHYLPROPANE, ETBE)	LA DEQ
EPA TO-15 2nd Ed. - EXTENDED	ISOPROPYL ALCOHOL (2-PROPANOL, ISOPROPANOL)	LA DEQ
EPA TO-15 2nd Ed. - EXTENDED	N-OCTANE	LA DEQ
EPA TO-15 2nd Ed. - EXTENDED	N-PROPYLBENZENE	LA DEQ
EPA TO-15 2nd Ed. - EXTENDED	SEC-BUTYLBENZENE	LA DEQ
EPA TO-15 2nd Ed. - EXTENDED	TERT-BUTYL ALCOHOL (2-METHYL-2-PROPANOL)	LA DEQ
EPA TO-15 2nd Ed.	TETRAHYDROFURAN (THF)	LA DEQ
EPA TO-15 2nd Ed.	TRANS-1,2-DICHLOROETHENE	LA DEQ
EPA TO-15 2nd Ed.	TRICHLOROETHENE (TRICHLOROETHYLENE)	LA DEQ
EPA TO-15 2nd Ed.	VINYL ACETATE	LA DEQ
EPA TO-15 2nd Ed.	VINYL CHLORIDE (CHLOROETHENE)	LA DEQ
EPA TO-15 2nd Ed. - EXTENDED	1,1,1,2-TETRACHLOROETHANE	LA DEQ
EPA TO-15 2nd Ed. - EXTENDED	2-HEXANONE	LA DEQ
EPA TO-15 2nd Ed. - EXTENDED	ACETONE	LA DEQ
EPA TO-15 2nd Ed. - EXTENDED	DI-ISOPROPYLETHER (DIPE, ISOPROPYL ETHER)	LA DEQ
EPA TO-15 2nd Ed. - EXTENDED	ETHANOL	LA DEQ
EPA TO-15 2nd Ed. - EXTENDED	ISOOCTANE (2,2,4-TRIMETHYLPENTANE)	LA DEQ
EPA TO-15 2nd Ed. - EXTENDED	N-BUTYLBENZENE	LA DEQ
EPA TO-15 2nd Ed. - EXTENDED	N-PENTANE	LA DEQ
EPA TO-15 2nd Ed. - EXTENDED	NAPHTHALENE	LA DEQ
EPA TO-15 2nd Ed. - EXTENDED	TERT-AMYL METHYL ETHER (TAME)	LA DEQ
EPA TO-15 2nd Ed. - EXTENDED	TERT-BUTYLBENZENE	LA DEQ

DRINKING WATER

METHOD	ANALYTE	PRIMARY
EPA 1613 B	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN (2,3,7,8-TCDD)	PA
EPA 200.7 REV 4.4	BARIUM	PA
EPA 200.7 REV 4.4	CHROMIUM	PA
EPA 200.7 REV 4.4	IRON	PA
EPA 200.7 REV 4.4	MANGANESE	PA
EPA 200.7 REV 4.4	SILVER	PA
EPA 200.7 REV 4.4	ZINC	PA
EPA 200.8 REV 5.4	ANTIMONY	PA
EPA 200.8 REV 5.4	BARIUM	PA
EPA 180.1 REV 2	TURBIDITY	PA
EPA 200.7 REV 4.4	CALCIUM	PA
EPA 200.7 REV 4.4	COPPER	PA
EPA 200.7 REV 4.4	MAGNESIUM	PA
EPA 200.7 REV 4.4	NICKEL	PA
EPA 200.7 REV 4.4	SODIUM	PA
EPA 200.8 REV 5.4	ALUMINUM	PA
EPA 200.8 REV 5.4	ARSENIC	PA
EPA 200.8 REV 5.4	BERYLLIUM	PA



Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services



Scope of Accreditation

VELAP Certificate No.: 12574

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

Virginia Laboratory ID: 460182
Effective Date: July 15, 2023
Expiration Date: June 14, 2024

DRINKING WATER

METHOD	ANALYTE	PRIMARY
EPA 200.8 REV 5.4	CADMIUM	PA
EPA 200.8 REV 5.4	COPPER	PA
EPA 200.8 REV 5.4	LEAD	PA
EPA 200.8 REV 5.4	NICKEL	PA
EPA 200.8 REV 5.4	SODIUM	PA
EPA 200.8 REV 5.4	ZINC	PA
EPA 300.0 REV 2.1	CHLORIDE	PA
EPA 300.0 REV 2.1	NITRATE AS N	PA
EPA 300.0 REV 2.1	SULFATE	PA
EPA 353.2 REV 2	NITRATE AS N	PA
EPA 353.2 REV 2	NITRITE AS N	PA
EPA 524.2 REV 4.1	1,1,2-TRICHLOROETHANE	PA
EPA 524.2 REV 4.1	1,2,4-TRICHLOROBENZENE	PA
EPA 524.2 REV 4.1	1,2-DICHLOROETHANE (ETHYLENE DICHLORIDE)	PA
EPA 524.2 REV 4.1	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	PA
EPA 524.2 REV 4.1	BROMODICHLOROMETHANE	PA
EPA 524.2 REV 4.1	CARBON TETRACHLORIDE	PA
EPA 524.2 REV 4.1	CHLORODIBROMOMETHANE	PA
EPA 524.2 REV 4.1	CIS-1,2-DICHLOROETHYLENE	PA
EPA 524.2 REV 4.1	METHYLENE CHLORIDE (DICHLOROMETHANE)	PA
EPA 524.2 REV 4.1	TETRACHLOROETHENE (PERCHLOROETHENE)	PA
EPA 524.2 REV 4.1	TOTAL TRIHALOMETHANES (TTHMS)	PA
EPA 524.2 REV 4.1	TRICHLOROETHENE (TRICHLOROETHYLENE)	PA
EPA 524.2 REV 4.1	XYLENE (TOTAL)	PA
EPA 531.1 REV 3.1	OXAMYL	PA
SM 2130 B-2011	TURBIDITY	PA
SM 2510 B-2011	CONDUCTIVITY	PA
SM 4500-F^- C-2011	FLUORIDE	PA
SM 4500-P E-2011	ORTHOPHOSPHATE AS P	PA
SM 5310 C-2011	TOTAL ORGANIC CARBON (TOC)	PA

METHOD	ANALYTE	PRIMARY
EPA 200.8 REV 5.4	CHROMIUM	PA
EPA 200.8 REV 5.4	IRON	PA
EPA 200.8 REV 5.4	MANGANESE	PA
EPA 200.8 REV 5.4	SELENIUM	PA
EPA 200.8 REV 5.4	THALLIUM	PA
EPA 245.1 REV 3	MERCURY	PA
EPA 300.0 REV 2.1	FLUORIDE	PA
EPA 300.0 REV 2.1	NITRITE AS N	PA
EPA 335.4 REV 1.0	CYANIDE	PA
EPA 353.2 REV 2	NITRATE-NITRITE AS N	PA
EPA 524.2 REV 4.1	1,1,1-TRICHLOROETHANE	PA
EPA 524.2 REV 4.1	1,1-DICHLOROETHYLENE	PA
EPA 524.2 REV 4.1	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	PA
EPA 524.2 REV 4.1	1,2-DICHLOROPROPANE	PA
EPA 524.2 REV 4.1	BENZENE	PA
EPA 524.2 REV 4.1	BROMOFORM	PA
EPA 524.2 REV 4.1	CHLOROBENZENE	PA
EPA 524.2 REV 4.1	CHLOROFORM	PA
EPA 524.2 REV 4.1	ETHYLBENZENE	PA
EPA 524.2 REV 4.1	STYRENE	PA
EPA 524.2 REV 4.1	TOLUENE	PA
EPA 524.2 REV 4.1	TRANS-1,2-DICHLOROETHENE	PA
EPA 524.2 REV 4.1	VINYL CHLORIDE (CHLOROETHENE)	PA
EPA 531.1 REV 3.1	CARBOFURAN (FURADEN)	PA
SM 2120 B-2011	COLOR	PA
SM 2320 B-2011	ALKALINITY AS CACO3	PA
SM 2540 C-2011	RESIDUE-FILTERABLE (TDS)	PA
SM 4500-H+ B-2011	PH	PA
SM 4500-SIO2 C-2011	SILICA AS SIO2	PA
SM 5540 C-2011	SURFACTANTS - MBAS	PA

NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
EPA 1010 A	FLASHPOINT	PA

METHOD	ANALYTE	PRIMARY
EPA 1010 B	FLASHPOINT	PA



Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services



Scope of Accreditation

VELAP Certificate No.: 12574

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

Virginia Laboratory ID: 460182
Effective Date: July 15, 2023
Expiration Date: June 14, 2024

NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
EPA 1311	PREP: TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP)	PA
EPA 1613 B	1,2,3,4,6,7,8,9-OCTACHLORODIBENZO-P-DIOXIN (OCDD)	PA
EPA 1613 B	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-P-DIOXIN (1,2,3,4,6,7,8-HPCDD)	PA
EPA 1613 B	1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN (1,2,3,4,7,8,9-HPCDF)	PA
EPA 1613 B	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN (1,2,3,4,7,8-HXCDF)	PA
EPA 1613 B	1,2,3,6,7,8-HEXACHLORODIBENZOFURAN (1,2,3,6,7,8-HXCDF)	PA
EPA 1613 B	1,2,3,7,8,9-HEXACHLORODIBENZOFURAN (1,2,3,7,8,9-HXCDF)	PA
EPA 1613 B	1,2,3,7,8-PENTACHLORODIBENZOFURAN (1,2,3,7,8-PECDF)	PA
EPA 1613 B	2,3,4,7,8-PENTACHLORODIBENZOFURAN	PA
EPA 1613 B	2,3,7,8-TETRACHLORODIBENZOFURAN (2,3,7,8-TCDF)	PA
EPA 1613 B	TOTAL HEPTACHLORODIBENZOFURAN (HPCDF, TOTAL)	PA
EPA 1613 B	TOTAL HEXACHLORODIBENZOFURAN (HXCDF, TOTAL)	PA
EPA 1613 B	TOTAL PENTACHLORODIBENZOFURAN (PECDF, TOTAL)	PA
EPA 1613 B	TOTAL TETRACHLORODIBENZOFURAN (TCDF, TOTAL)	PA
EPA 1664 B	TOTAL PETROLEUM HYDROCARBONS (TPH) (AS NONPOLAR MATERIAL, SGT-HEM)	PA
EPA 1666 A	DI-ISOPROPYLETHER (DIPE, ISOPROPYL ETHER)	PA
EPA 1666 A	ISOBUTYRALDEHYDE	PA
EPA 1666 A	ISOPROPYL ALCOHOL (2-PROPANOL, ISOPROPANOL)	PA
EPA 1666 A	N-AMYL ACETATE	PA
EPA 1666 A	N-BUTYL-ACETATE	PA
EPA 1666 A	N-HEXANE	PA
EPA 1666 A	TETRAHYDROFURAN (THF)	PA
EPA 1668 A	2,2',3,3',4,4',5,5',6-NONACHLOROBIPHENYL (BZ-206)	PA
EPA 1312	PREP: SYNTHETIC PRECIPITATION LEACHING PROCEDURE (SPLP)	PA
EPA 1613 B	1,2,3,4,6,7,8,9-OCTACHLORODIBENZOFURAN (OCDF)	PA
EPA 1613 B	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN (1,2,3,4,6,7,8-HPCDF)	PA
EPA 1613 B	1,2,3,4,7,8-HEXACHLORODIBENZO-P-DIOXIN (1,2,3,4,7,8-HXCDD)	PA
EPA 1613 B	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN(1,2,3,6,7,8-HXCDD)	PA
EPA 1613 B	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN (1,2,3,7,8,9-HXCDD)	PA
EPA 1613 B	1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN (1,2,3,7,8-PECDD)	PA
EPA 1613 B	2,3,4,6,7,8-HEXACHLORODIBENZOFURAN (2,3,4,6,7,8-HXCDF)	PA
EPA 1613 B	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN (2,3,7,8-TCDD)	PA
EPA 1613 B	TOTAL HEPTACHLORODIBENZO-P-DIOXIN (HPCDD, TOTAL)	PA
EPA 1613 B	TOTAL HEXACHLORODIBENZO-P-DIOXIN (HXCDD, TOTAL)	PA
EPA 1613 B	TOTAL PENTACHLORODIBENZO-P-DIOXIN (PECDD, TOTAL)	PA
EPA 1613 B	TOTAL TETRACHLORODIBENZO-P-DIOXIN (TCDD, TOTAL)	PA
EPA 1664 B	OIL AND GREASE (AS N-HEXANE EXTRACTABLE MATERIAL (HEM))	PA
EPA 1666 A	4-METHYL-2-PENTANONE (METHYL ISOBUTYL KETONE, MIBK)	PA
EPA 1666 A	ETHYL ACETATE	PA
EPA 1666 A	ISOPROPYL ACETATE	PA
EPA 1666 A	METHYL FORMATE	PA
EPA 1666 A	N-AMYL ALCOHOL	PA
EPA 1666 A	N-HEPTANE	PA
EPA 1666 A	TERT-BUTYL ALCOHOL (2-METHYL-2-PROPANOL)	PA
EPA 1666 A	XYLENE (TOTAL)	PA
EPA 1668 A	2,2',3,3',4,4',5,5'-OCTACHLOROBIPHENYL (BZ-194)	PA



Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services



Scope of Accreditation

VELAP Certificate No.: 12574

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

Virginia Laboratory ID: 460182
Effective Date: July 15, 2023
Expiration Date: June 14, 2024

NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
EPA 1668 A	2,2',3,3',4,4',5,6'-OCTACHLOROBIPHENYL (BZ-196)	PA
EPA 1668 A	2,2',3,3',4,4',5,6-OCTACHLOROBIPHENYL BZ-195)	PA
EPA 1668 A	2,2',3,3',4,4',6,6'-OCTACHLOROBIPHENYL (BZ-197)	PA
EPA 1668 A	2,2',3,3',4,4'-HEXACHLOROBIPHENYL (BZ-128)	PA
EPA 1668 A	2,2',3,3',4,5',6,6'-OCTACHLOROBIPHENYL (BZ-201)	PA
EPA 1668 A	2,2',3,3',4,5'-HEXACHLOROBIPHENYL (BZ-130)	PA
EPA 1668 A	2,2',3,3',4,5,5',6,6'-NONACHLOROBIPHENYL (BZ-208)	PA
EPA 1668 A	2,2',3,3',4,5,5'-HEPTACHLOROBIPHENYL (BZ-172)	PA
EPA 1668 A	2,2',3,3',4,5,6,6'-OCTACHLOROBIPHENYL (BZ-200)	PA
EPA 1668 A	2,2',3,3',4,5-HEXACHLOROBIPHENYL (BZ-129)	PA
EPA 1668 A	2,2',3,3',4,6,6'-HEPTACHLOROBIPHENYL (BZ-176)	PA
EPA 1668 A	2,2',3,3',4-PENTACHLOROBIPHENYL (BZ-82)	PA
EPA 1668 A	2,2',3,3',5,5',6-HEPTACHLOROBIPHENYL (BZ-178)	PA
EPA 1668 A	2,2',3,3',5,6'-HEXACHLOROBIPHENYL (BZ-135)	PA
EPA 1668 A	2,2',3,3',5,6-HEXACHLOROBIPHENYL (BZ-134)	PA
EPA 1668 A	2,2',3,3',6,6'-HEXACHLOROBIPHENYL (BZ-136)	PA
EPA 1668 A	2,2',3,3'-TETRACHLOROBIPHENYL (BZ-40)	PA
EPA 1668 A	2,2',3,4',5'-PENTACHLOROBIPHENYL (BZ-97)	PA
EPA 1668 A	2,2',3,4',5,5'-HEXACHLOROBIPHENYL (BZ-146)	PA
EPA 1668 A	2,2',3,4',5,6,6'-HEPTACHLOROBIPHENYL (BZ-188)	PA
EPA 1668 A	2,2',3,4',5-PENTACHLOROBIPHENYL (BZ-90)	PA
EPA 1668 A	2,2',3,4',6,6'-HEXACHLOROBIPHENYL (BZ-150)	PA
EPA 1668 A	2,2',3,4'-TETRACHLOROBIPHENYL (BZ-42)	PA
EPA 1668 A	2,2',3,4,4',5'-HEXACHLOROBIPHENYL (BZ-138)	PA
EPA 1668 A	2,2',3,4,4',5,5'-HEPTACHLOROBIPHENYL (BZ-180)	PA
EPA 1668 A	2,2',3,3',4,4',5,6,6'-NONACHLOROBIPHENYL (BZ-207)	PA
EPA 1668 A	2,2',3,3',4,4',5-HEPTACHLOROBIPHENYL (BZ-170)	PA
EPA 1668 A	2,2',3,3',4,4',6-HEPTACHLOROBIPHENYL (BZ-171)	PA
EPA 1668 A	2,2',3,3',4,5',6-HEPTACHLOROBIPHENYL (BZ-177)	PA
EPA 1668 A	2,2',3,3',4,5',6-HEPTACHLOROBIPHENYL (BZ-175)	PA
EPA 1668 A	2,2',3,3',4,5,5',6'-OCTACHLOROBIPHENYL (BZ-199)	PA
EPA 1668 A	2,2',3,3',4,5,5',6-OCTACHLOROBIPHENYL (BZ-198)	PA
EPA 1668 A	2,2',3,3',4,5,6'-HEPTACHLOROBIPHENYL (BZ-174)	PA
EPA 1668 A	2,2',3,3',4,5,6-HEPTACHLOROBIPHENYL (BZ-173)	PA
EPA 1668 A	2,2',3,3',4,6'-HEXACHLOROBIPHENYL (BZ-132)	PA
EPA 1668 A	2,2',3,3',4,6-HEXACHLOROBIPHENYL (BZ-131)	PA
EPA 1668 A	2,2',3,3',5,5',6,6'-OCTACHLOROBIPHENYL (BZ-202)	PA
EPA 1668 A	2,2',3,3',5,5'-HEXACHLOROBIPHENYL (BZ-133)	PA
EPA 1668 A	2,2',3,3',5,6,6'-HEPTACHLOROBIPHENYL (BZ-179)	PA
EPA 1668 A	2,2',3,3',5-PENTACHLOROBIPHENYL (BZ-83)	PA
EPA 1668 A	2,2',3,3',6-PENTACHLOROBIPHENYL (BZ-84)	PA
EPA 1668 A	2,2',3,4',5',6-HEXACHLOROBIPHENYL (BZ-149)	PA
EPA 1668 A	2,2',3,4',5,5',6-HEPTACHLOROBIPHENYL (BZ-187)	PA
EPA 1668 A	2,2',3,4',5,6'-HEXACHLOROBIPHENYL (BZ-148)	PA
EPA 1668 A	2,2',3,4',5,6-HEXACHLOROBIPHENYL (BZ-147)	PA
EPA 1668 A	2,2',3,4',6'-PENTACHLOROBIPHENYL (BZ-98)	PA
EPA 1668 A	2,2',3,4',6-PENTACHLOROBIPHENYL (BZ-91)	PA
EPA 1668 A	2,2',3,4,4',5',6-HEPTACHLOROBIPHENYL (BZ-183)	PA
EPA 1668 A	2,2',3,4,4',5,5',6-OCTACHLOROBIPHENYL (BZ-203)	PA
EPA 1668 A	2,2',3,4,4',5,6'-HEPTACHLOROBIPHENYL (BZ-182)	PA



Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services



Scope of Accreditation

VELAP Certificate No.: 12574

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

Virginia Laboratory ID: 460182
Effective Date: July 15, 2023
Expiration Date: June 14, 2024

NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
EPA 1668 A	2,2',3,4,4',5,6,6'-OCTACHLOROBIPHENYL (BZ-204)	PA
EPA 1668 A	2,2',3,4,4',5-HEXACHLOROBIPHENYL (BZ-137)	PA
EPA 1668 A	2,2',3,4,4',6,6'-HEPTACHLOROBIPHENYL (BZ-184)	PA
EPA 1668 A	2,2',3,4,4'-PENTACHLOROBIPHENYL (BZ-85)	PA
EPA 1668 A	2,2',3,4,5'-PENTACHLOROBIPHENYL (BZ-87)	PA
EPA 1668 A	2,2',3,4,5,5'-HEXACHLOROBIPHENYL (BZ-141)	PA
EPA 1668 A	2,2',3,4,5,6,6'-HEPTACHLOROBIPHENYL (BZ-186)	PA
EPA 1668 A	2,2',3,4,5-PENTACHLOROBIPHENYL (BZ-86)	PA
EPA 1668 A	2,2',3,4,6,6'-HEXACHLOROBIPHENYL (BZ-145)	PA
EPA 1668 A	2,2',3,4-TETRACHLOROBIPHENYL (BZ-41)	PA
EPA 1668 A	2,2',3,5'-TETRACHLOROBIPHENYL (BZ-44)	PA
EPA 1668 A	2,2',3,5,5'-PENTACHLOROBIPHENYL (BZ-92)	PA
EPA 1668 A	2,2',3,5,6,6'-HEXACHLOROBIPHENYL (BZ-152)	PA
EPA 1668 A	2,2',3,5-TETRACHLOROBIPHENYL (BZ-43)	PA
EPA 1668 A	2,2',3,6,6'-PENTACHLOROBIPHENYL (BZ-96)	PA
EPA 1668 A	2,2',3-TRICHLOROBIPHENYL (BZ-16)	PA
EPA 1668 A	2,2',4,4',5,6'-HEXACHLOROBIPHENYL (BZ-154)	PA
EPA 1668 A	2,2',4,4',6,6'-HEXACHLOROBIPHENYL (BZ-155)	PA
EPA 1668 A	2,2',4,4'-TETRACHLOROBIPHENYL (BZ-47)	PA
EPA 1668 A	2,2',4,5'-TETRACHLOROBIPHENYL (BZ-49)	PA
EPA 1668 A	2,2',4,5,6'-PENTACHLOROBIPHENYL (BZ-102)	PA
EPA 1668 A	2,2',4,6'-TETRACHLOROBIPHENYL (BZ-51)	PA
EPA 1668 A	2,2',4,6-TETRACHLOROBIPHENYL (BZ-50)	PA
EPA 1668 A	2,2',5,5'-TETRACHLOROBIPHENYL (BZ-52)	PA
EPA 1668 A	2,2',5-TRICHLOROBIPHENYL (BZ-18)	PA
EPA 1668 A	2,2',3,4,4',5,6-HEPTACHLOROBIPHENYL (BZ-181)	PA
EPA 1668 A	2,2',3,4,4',6'-HEXACHLOROBIPHENYL (BZ-140)	PA
EPA 1668 A	2,2',3,4,4',6-HEXACHLOROBIPHENYL (BZ-139)	PA
EPA 1668 A	2,2',3,4,5',6-HEXACHLOROBIPHENYL (BZ-144)	PA
EPA 1668 A	2,2',3,4,5,5',6-HEPTACHLOROBIPHENYL (BZ-185)	PA
EPA 1668 A	2,2',3,4,5,6'-HEXACHLOROBIPHENYL (BZ-143)	PA
EPA 1668 A	2,2',3,4,5,6-HEXACHLOROBIPHENYL (BZ-142)	PA
EPA 1668 A	2,2',3,4,6'-PENTACHLOROBIPHENYL (BZ-89)	PA
EPA 1668 A	2,2',3,4,6-PENTACHLOROBIPHENYL (BZ-88)	PA
EPA 1668 A	2,2',3,5',6-PENTACHLOROBIPHENYL (BZ-95)	PA
EPA 1668 A	2,2',3,5,5',6-HEXACHLOROBIPHENYL (BZ-151)	PA
EPA 1668 A	2,2',3,5,6'-PENTACHLOROBIPHENYL (BZ-94)	PA
EPA 1668 A	2,2',3,5,6-PENTACHLOROBIPHENYL (BZ-93)	PA
EPA 1668 A	2,2',3,6'-TETRACHLOROBIPHENYL (BZ-46)	PA
EPA 1668 A	2,2',3,6-TETRACHLOROBIPHENYL (BZ-45)	PA
EPA 1668 A	2,2',4,4',5,5'-HEXACHLOROBIPHENYL (BZ-153)	PA
EPA 1668 A	2,2',4,4',5-PENTACHLOROBIPHENYL (BZ-99)	PA
EPA 1668 A	2,2',4,4',6-PENTACHLOROBIPHENYL (BZ-100)	PA
EPA 1668 A	2,2',4,5',6-PENTACHLOROBIPHENYL (BZ-103)	PA
EPA 1668 A	2,2',4,5,5'-PENTACHLOROBIPHENYL (BZ-101)	PA
EPA 1668 A	2,2',4,5-TETRACHLOROBIPHENYL (BZ-48)	PA
EPA 1668 A	2,2',4,6,6'-PENTACHLOROBIPHENYL (BZ-104)	PA
EPA 1668 A	2,2',4-TRICHLOROBIPHENYL (BZ-17)	PA
EPA 1668 A	2,2',5,6'-TETRACHLOROBIPHENYL (BZ-53)	PA
EPA 1668 A	2,2',6,6'-TETRACHLOROBIPHENYL (BZ-54)	PA



Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services



Scope of Accreditation

VELAP Certificate No.: 12574

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

Virginia Laboratory ID: 460182
Effective Date: July 15, 2023
Expiration Date: June 14, 2024

NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
EPA 1668 A	2,2',6-TRICHLOROBIPHENYL (BZ-19)	PA
EPA 1668 A	2,3',4',5',6-PENTACHLOROBIPHENYL (BZ-125)	PA
EPA 1668 A	2,3',4',5,5'-PENTACHLOROBIPHENYL (BZ-124)	PA
EPA 1668 A	2,3',4',6-TETRACHLOROBIPHENYL (BZ-71)	PA
EPA 1668 A	2,3',4,4',5',6-HEXACHLOROBIPHENYL (BZ-168)	PA
EPA 1668 A	2,3',4,4',5,5'-HEXACHLOROBIPHENYL (BZ-167)	PA
EPA 1668 A	2,3',4,4',6-PENTACHLOROBIPHENYL (BZ-119)	PA
EPA 1668 A	2,3',4,5',6-PENTACHLOROBIPHENYL (BZ-121)	PA
EPA 1668 A	2,3',4,5,5'-PENTACHLOROBIPHENYL (BZ-120)	PA
EPA 1668 A	2,3',4,6-TETRACHLOROBIPHENYL (BZ-69)	PA
EPA 1668 A	2,3',5',6-TETRACHLOROBIPHENYL (BZ-73)	PA
EPA 1668 A	2,3',5,5'-TETRACHLOROBIPHENYL (BZ-72)	PA
EPA 1668 A	2,3',6-TRICHLOROBIPHENYL (BZ-27)	PA
EPA 1668 A	2,3,3',4',5',6-HEXACHLOROBIPHENYL (BZ-164)	PA
EPA 1668 A	2,3,3',4',5,5',6-HEPTACHLOROBIPHENYL (BZ-193)	PA
EPA 1668 A	2,3,3',4',5,6-HEXACHLOROBIPHENYL (BZ-163)	PA
EPA 1668 A	2,3,3',4',6-PENTACHLOROBIPHENYL (BZ-110)	PA
EPA 1668 A	2,3,3',4,4',5',6-HEPTACHLOROBIPHENYL (BZ-191)	PA
EPA 1668 A	2,3,3',4,4',5,5',6-OCTACHLOROBIPHENYL (BZ-205)	PA
EPA 1668 A	2,3,3',4,4',5,6-HEPTACHLOROBIPHENYL (BZ-190)	PA
EPA 1668 A	2,3,3',4,4',6-HEXACHLOROBIPHENYL (BZ-158)	PA
EPA 1668 A	2,3,3',4,5',6-HEXACHLOROBIPHENYL (BZ-161)	PA
EPA 1668 A	2,3,3',4,5,5',6-HEPTACHLOROBIPHENYL (BZ-192)	PA
EPA 1668 A	2,3,3',4,5,6-HEXACHLOROBIPHENYL (BZ-160)	PA
EPA 1668 A	2,3,3',4,6-PENTACHLOROBIPHENYL (BZ-109)	PA
EPA 1668 A	2,2'-DICHLOROBIPHENYL (BZ-4)	PA
EPA 1668 A	2,3',4',5'-TETRACHLOROBIPHENYL (BZ-76)	PA
EPA 1668 A	2,3',4',5-TETRACHLOROBIPHENYL (BZ-70)	PA
EPA 1668 A	2,3',4'-TRICHLOROBIPHENYL (BZ-33)	PA
EPA 1668 A	2,3',4,4',5'-PENTACHLOROBIPHENYL (BZ-123)	PA
EPA 1668 A	2,3',4,4',5-PENTACHLOROBIPHENYL (BZ-118)	PA
EPA 1668 A	2,3',4,4'-TETRACHLOROBIPHENYL (BZ-66)	PA
EPA 1668 A	2,3',4,5'-TETRACHLOROBIPHENYL (BZ-68)	PA
EPA 1668 A	2,3',4,5-TETRACHLOROBIPHENYL (BZ-67)	PA
EPA 1668 A	2,3',4-TRICHLOROBIPHENYL (BZ-25)	PA
EPA 1668 A	2,3',5'-TRICHLOROBIPHENYL (BZ-34)	PA
EPA 1668 A	2,3',5-TRICHLOROBIPHENYL (BZ-26)	PA
EPA 1668 A	2,3'-DICHLOROBIPHENYL (BZ-6)	PA
EPA 1668 A	2,3,3',4',5'-PENTACHLOROBIPHENYL (BZ-122)	PA
EPA 1668 A	2,3,3',4',5,5'-HEXACHLOROBIPHENYL (BZ-162)	PA
EPA 1668 A	2,3,3',4',5-PENTACHLOROBIPHENYL (BZ-107)	PA
EPA 1668 A	2,3,3',4'-TETRACHLOROBIPHENYL (BZ-56)	PA
EPA 1668 A	2,3,3',4,4',5'-HEXACHLOROBIPHENYL (BZ-157)	PA
EPA 1668 A	2,3,3',4,4',5,5'-HEPTACHLOROBIPHENYL (BZ-189)	PA
EPA 1668 A	2,3,3',4,4',5-HEXACHLOROBIPHENYL (BZ-156)	PA
EPA 1668 A	2,3,3',4,4'-PENTACHLOROBIPHENYL (BZ-105)	PA
EPA 1668 A	2,3,3',4,5'-PENTACHLOROBIPHENYL (BZ-108)	PA
EPA 1668 A	2,3,3',4,5,5'-HEXACHLOROBIPHENYL (BZ-159)	PA
EPA 1668 A	2,3,3',4,5-PENTACHLOROBIPHENYL (BZ-106)	PA
EPA 1668 A	2,3,3',4-TETRACHLOROBIPHENYL (BZ-55)	PA



Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services



Scope of Accreditation

VELAP Certificate No.: 12574

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

Virginia Laboratory ID: 460182
Effective Date: July 15, 2023
Expiration Date: June 14, 2024

NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
EPA 1668 A	2,3,3',5',6-PENTACHLOROBIPHENYL (BZ-113)	PA
EPA 1668 A	2,3,3',5,5',6-HEXACHLOROBIPHENYL (BZ-165)	PA
EPA 1668 A	2,3,3',5,6-PENTACHLOROBIPHENYL (BZ-112)	PA
EPA 1668 A	2,3,3',6-TETRACHLOROBIPHENYL (BZ-59)	PA
EPA 1668 A	2,3,4',5,6-PENTACHLOROBIPHENYL (BZ-117)	PA
EPA 1668 A	2,3,4',6-TETRACHLOROBIPHENYL (BZ-64)	PA
EPA 1668 A	2,3,4,4',5,6-HEXACHLOROBIPHENYL (BZ-166)	PA
EPA 1668 A	2,3,4,4',6-PENTACHLOROBIPHENYL (BZ-115)	PA
EPA 1668 A	2,3,4,5,6-PENTACHLOROBIPHENYL (BZ-116)	PA
EPA 1668 A	2,3,4,6-TETRACHLOROBIPHENYL (BZ-62)	PA
EPA 1668 A	2,3,5,6-TETRACHLOROBIPHENYL (BZ-65)	PA
EPA 1668 A	2,3,6-TRICHLOROBIPHENYL (BZ-24)	PA
EPA 1668 A	2,4',5-TRICHLOROBIPHENYL (BZ-31)	PA
EPA 1668 A	2,4'-DICHLOROBIPHENYL (BZ-8)	PA
EPA 1668 A	2,4,4',6-TETRACHLOROBIPHENYL (BZ-75)	PA
EPA 1668 A	2,4,5-TRICHLOROBIPHENYL (BZ-29)	PA
EPA 1668 A	2,4-DICHLOROBIPHENYL (BZ-7)	PA
EPA 1668 A	2,6-DICHLOROBIPHENYL (BZ-10)	PA
EPA 1668 A	3,3',4,4',5,5'-HEXACHLOROBIPHENYL (BZ-169)	PA
EPA 1668 A	3,3',4,4'-TETRACHLOROBIPHENYL (BZ-77)	PA
EPA 1668 A	3,3',4,5,5'-PENTACHLOROBIPHENYL (BZ-127)	PA
EPA 1668 A	3,3',4-TRICHLOROBIPHENYL (BZ-35)	PA
EPA 1668 A	3,3',5-TRICHLOROBIPHENYL (BZ-36)	PA
EPA 1668 A	3,4',5-TRICHLOROBIPHENYL (BZ-39)	PA
EPA 1668 A	3,4,4',5-TETRACHLOROBIPHENYL (BZ-81)	PA
EPA 1668 A	3,4,5-TRICHLOROBIPHENYL (BZ-38)	PA
EPA 1668 A	3,5-DICHLOROBIPHENYL (BZ-14)	PA
EPA 1668 A	4,4'-DICHLOROBIPHENYL (BZ-15)	PA
EPA 1668 A	DECACHLOROBIPHENYL (BZ-209)	PA
EPA 1668 A	2,3,3',5'-TETRACHLOROBIPHENYL (BZ-58)	PA
EPA 1668 A	2,3,3',5,5'-PENTACHLOROBIPHENYL (BZ-111)	PA
EPA 1668 A	2,3,3',5-TETRACHLOROBIPHENYL (BZ-57)	PA
EPA 1668 A	2,3,3'-TRICHLOROBIPHENYL (BZ-20)	PA
EPA 1668 A	2,3,4',5-TETRACHLOROBIPHENYL (BZ-63)	PA
EPA 1668 A	2,3,4'-TRICHLOROBIPHENYL (BZ-22)	PA
EPA 1668 A	2,3,4,4',5-PENTACHLOROBIPHENYL (BZ-114)	PA
EPA 1668 A	2,3,4,4'-TETRACHLOROBIPHENYL (BZ-60)	PA
EPA 1668 A	2,3,4,5-TETRACHLOROBIPHENYL (BZ-61)	PA
EPA 1668 A	2,3,4-TRICHLOROBIPHENYL (BZ-21)	PA
EPA 1668 A	2,3,5-TRICHLOROBIPHENYL (BZ-23)	PA
EPA 1668 A	2,3-DICHLOROBIPHENYL (BZ-5)	PA
EPA 1668 A	2,4',6-TRICHLOROBIPHENYL (BZ-32)	PA
EPA 1668 A	2,4,4',5-TETRACHLOROBIPHENYL (BZ-74)	PA
EPA 1668 A	2,4,4'-TRICHLOROBIPHENYL (BZ-28)	PA
EPA 1668 A	2,4,6-TRICHLOROBIPHENYL (BZ-30)	PA
EPA 1668 A	2,5-DICHLOROBIPHENYL (BZ-9)	PA
EPA 1668 A	2-CHLOROBIPHENYL (BZ-1)	PA
EPA 1668 A	3,3',4,4',5-PENTACHLOROBIPHENYL (BZ-126)	PA
EPA 1668 A	3,3',4,5'-TETRACHLOROBIPHENYL (BZ-79)	PA
EPA 1668 A	3,3',4,5-TETRACHLOROBIPHENYL (BZ-78)	PA
EPA 1668 A	3,3',5,5'-TETRACHLOROBIPHENYL (BZ-80)	PA
EPA 1668 A	3,3'-DICHLOROBIPHENYL (BZ-11)	PA
EPA 1668 A	3,4'-DICHLOROBIPHENYL (BZ-13)	PA
EPA 1668 A	3,4,4'-TRICHLOROBIPHENYL (BZ-37)	PA
EPA 1668 A	3,4-DICHLOROBIPHENYL (BZ-12)	PA
EPA 1668 A	3-CHLOROBIPHENYL (BZ-2)	PA
EPA 1668 A	4-CHLOROBIPHENYL (BZ-3)	PA



Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services



Scope of Accreditation

VELAP Certificate No.: 12574

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

Virginia Laboratory ID: 460182
Effective Date: July 15, 2023
Expiration Date: June 14, 2024

NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
EPA 1671 A	2-METHOXYETHANOL (METHYL CELLOSOLVE)	PA
EPA 1671 A	DIETHYLAMINE	PA
EPA 1671 A	ETHANOL	PA
EPA 1671 A	N-PROPANOL (1-PROPANOL)	PA
EPA 180.1 REV 2	TURBIDITY	PA
EPA 200.7 REV 4.4	ANTIMONY	PA
EPA 200.7 REV 4.4	BARIUM	PA
EPA 200.7 REV 4.4	BORON	PA
EPA 200.7 REV 4.4	CALCIUM	PA
EPA 200.7 REV 4.4	COBALT	PA
EPA 200.7 REV 4.4	IRON	PA
EPA 200.7 REV 4.4	MAGNESIUM	PA
EPA 200.7 REV 4.4	MOLYBDENUM	PA
EPA 200.7 REV 4.4	POTASSIUM	PA
EPA 200.7 REV 4.4	SILVER	PA
EPA 200.7 REV 4.4	THALLIUM	PA
EPA 200.7 REV 4.4	TITANIUM	PA
EPA 200.7 REV 4.4	ZINC	PA
EPA 200.8 REV 5.4	ANTIMONY	PA
EPA 200.8 REV 5.4	BARIUM	PA
EPA 200.8 REV 5.4	CADMIUM	PA
EPA 200.8 REV 5.4	COBALT	PA
EPA 200.8 REV 5.4	LEAD	PA
EPA 200.8 REV 5.4	MOLYBDENUM	PA
EPA 200.8 REV 5.4	SELENIUM	PA
EPA 200.8 REV 5.4	THALLIUM	PA
EPA 200.8 REV 5.4	ZINC	PA
EPA 200.8 REV 5.4 - EXTENDED	IRON	PA
EPA 200.8 REV 5.4 - EXTENDED	POTASSIUM	PA
EPA 200.8 REV 5.4 - EXTENDED	TIN	PA
EPA 218.6 REV 3.3	CHROMIUM VI	PA
EPA 300.0 REV 2.1	BROMIDE	PA
EPA 300.0 REV 2.1	FLUORIDE	PA
EPA 300.0 REV 2.1	NITRITE AS N	PA
EPA 1671 A	ACETONITRILE	PA
EPA 1671 A	DIMETHYL SULFOXIDE	PA
EPA 1671 A	METHANOL	PA
EPA 1671 A	TRIETHYLAMINE	PA
EPA 200.7 REV 4.4	ALUMINUM	PA
EPA 200.7 REV 4.4	ARSENIC	PA
EPA 200.7 REV 4.4	BERYLLIUM	PA
EPA 200.7 REV 4.4	CADMIUM	PA
EPA 200.7 REV 4.4	CHROMIUM	PA
EPA 200.7 REV 4.4	COPPER	PA
EPA 200.7 REV 4.4	LEAD	PA
EPA 200.7 REV 4.4	MANGANESE	PA
EPA 200.7 REV 4.4	NICKEL	PA
EPA 200.7 REV 4.4	SELENIUM	PA
EPA 200.7 REV 4.4	SODIUM	PA
EPA 200.7 REV 4.4	TIN	PA
EPA 200.7 REV 4.4	VANADIUM	PA
EPA 200.8 REV 5.4	ALUMINUM	PA
EPA 200.8 REV 5.4	ARSENIC	PA
EPA 200.8 REV 5.4	BERYLLIUM	PA
EPA 200.8 REV 5.4	CHROMIUM	PA
EPA 200.8 REV 5.4	COPPER	PA
EPA 200.8 REV 5.4	MANGANESE	PA
EPA 200.8 REV 5.4	NICKEL	PA
EPA 200.8 REV 5.4	SILVER	PA
EPA 200.8 REV 5.4	VANADIUM	PA
EPA 200.8 REV 5.4 - EXTENDED	CALCIUM	PA
EPA 200.8 REV 5.4 - EXTENDED	MAGNESIUM	PA
EPA 200.8 REV 5.4 - EXTENDED	SODIUM	PA
EPA 200.8 REV 5.4 - EXTENDED	TITANIUM	PA
EPA 245.1 REV 3	MERCURY	PA
EPA 300.0 REV 2.1	CHLORIDE	PA
EPA 300.0 REV 2.1	NITRATE AS N	PA
EPA 300.0 REV 2.1	SULFATE	PA



Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services



Scope of Accreditation

VELAP Certificate No.: 12574

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

Virginia Laboratory ID: 460182
Effective Date: July 15, 2023
Expiration Date: June 14, 2024

NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
EPA 3005 A	PREP: ACID DIGESTION OF WATERS FOR TOTAL RECOVERABLE OR DISSOLVED METALS	PA
EPA 3020 A	PREP: ACID DIGESTION OF AQUEOUS SAMPLES AND EXTRACTS FOR TOTAL METALS	PA
EPA 335.4 REV 1.0	CYANIDE	PA
EPA 351.2 REV 2	KJELDAHL NITROGEN - TOTAL (TKN)	PA
EPA 3511	PREP: ORGANIC EXTRACTION AND SAMPLE PREPARATION	PA
EPA 353.2 REV 2	NITRATE-NITRITE AS N	PA
EPA 3620 C	PREP: FLORISIL CLEANUP	PA
EPA 3640 A	PREP: GEL PERMEATION CLEANUP	PA
EPA 365.3	ORTHOPHOSPHATE AS P	PA
EPA 410.4 REV 2	CHEMICAL OXYGEN DEMAND (COD)	PA
EPA 5030 C	PREP: PURGE AND TRAP FOR AQUEOUS SAMPLES	PA
EPA 6010 D	ANTIMONY	PA
EPA 6010 D	BARIUM	PA
EPA 6010 D	BORON	PA
EPA 6010 D	CALCIUM	PA
EPA 6010 D	COBALT	PA
EPA 6010 D	IRON	PA
EPA 6010 D	LITHIUM	PA
EPA 6010 D	MANGANESE	PA
EPA 6010 D	NICKEL	PA
EPA 6010 D	SELENIUM	PA
EPA 6010 D	SODIUM	PA
EPA 6010 D	THALLIUM	PA
EPA 6010 D	TITANIUM	PA
EPA 6010 D	ZINC	PA
EPA 6010 D - EXTENDED	THORIUM	PA
EPA 6020 B	ALUMINUM	PA
EPA 6020 B	ARSENIC	PA
EPA 6020 B	BERYLLIUM	PA
EPA 6020 B	CALCIUM	PA
EPA 6020 B	COBALT	PA
EPA 6020 B	IRON	PA
EPA 6020 B	MAGNESIUM	PA
EPA 6020 B	MOLYBDENUM	PA
EPA 3010 A	PREP: ACID DIGESTION OF AQUEOUS SAMPLES AND EXTRACTS FOR TOTAL METALS	PA
EPA 3060 A	PREP: HEXAVALENT CHROMIUM	PA
EPA 350.1 REV 2	AMMONIA AS N	PA
EPA 3510 C	PREP: LIQUID-LIQUID EXTRACTION	PA
EPA 353.2 REV 2	NITRATE AS N	PA
EPA 353.2 REV 2	NITRITE AS N	PA
EPA 3630 C	PREP: SILICA GEL CLEANUP	PA
EPA 365.1 REV 2	PHOSPHORUS, TOTAL	PA
EPA 3660 B	PREP: SULFUR CLEANUP	PA
EPA 420.4 REV 1	TOTAL PHENOLICS	PA
EPA 6010 D	ALUMINUM	PA
EPA 6010 D	ARSENIC	PA
EPA 6010 D	BERYLLIUM	PA
EPA 6010 D	CADMIUM	PA
EPA 6010 D	CHROMIUM	PA
EPA 6010 D	COPPER	PA
EPA 6010 D	LEAD	PA
EPA 6010 D	MAGNESIUM	PA
EPA 6010 D	MOLYBDENUM	PA
EPA 6010 D	POTASSIUM	PA
EPA 6010 D	SILVER	PA
EPA 6010 D	STRONTIUM	PA
EPA 6010 D	TIN	PA
EPA 6010 D	VANADIUM	PA
EPA 6010 D - EXTENDED	SULFUR	PA
EPA 6010 D - EXTENDED	ZIRCONIUM	PA
EPA 6020 B	ANTIMONY	PA
EPA 6020 B	BARIUM	PA
EPA 6020 B	CADMIUM	PA
EPA 6020 B	CHROMIUM	PA
EPA 6020 B	COPPER	PA
EPA 6020 B	LEAD	PA
EPA 6020 B	MANGANESE	PA



Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services



Scope of Accreditation

VELAP Certificate No.: 12574

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

Virginia Laboratory ID: 460182
Effective Date: July 15, 2023
Expiration Date: June 14, 2024

NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
EPA 6020 B	NICKEL	PA
EPA 6020 B	SELENIUM	PA
EPA 6020 B	SODIUM	PA
EPA 6020 B	TIN	PA
EPA 6020 B	ZINC	PA
EPA 6020 B - EXTENDED	TITANIUM	PA
EPA 608.3	4,4'-DDD	PA
EPA 608.3	4,4'-DDT	PA
EPA 608.3	ALPHA-BHC (ALPHA-HEXACHLOROCYCLOHEXANE)	PA
EPA 608.3	AROCLOR-1016 (PCB-1016)	PA
EPA 608.3	AROCLOR-1232 (PCB-1232)	PA
EPA 608.3	AROCLOR-1248 (PCB-1248)	PA
EPA 608.3	AROCLOR-1260 (PCB-1260)	PA
EPA 608.3	CHLORDANE, TOTAL	PA
EPA 608.3	DIELDRIN	PA
EPA 608.3	ENDOSULFAN II	PA
EPA 608.3	ENDRIN	PA
EPA 608.3	ENDRIN KETONE	PA
EPA 608.3	GAMMA-CHLORDANE (TRANS-CHLORDANE)	PA
EPA 608.3	HEPTACHLOR EPOXIDE	PA
EPA 608.3	MIREX	PA
EPA 624.1	1,1,1,2-TETRACHLOROETHANE	PA
EPA 624.1	1,1,2,2-TETRACHLOROETHANE	PA
EPA 624.1	1,1,2-TRICHLOROETHANE	PA
EPA 624.1	1,1-DICHLOROETHYLENE	PA
EPA 624.1	1,2,3-TRICHLOROBENZENE	PA
EPA 624.1	1,2,4-TRIMETHYLBENZENE	PA
EPA 624.1	1,2-DIBROMOETHANE (EDB, ETHYLENE DIBROMIDE)	PA
EPA 624.1	1,2-DICHLOROETHANE (ETHYLENE DICHLORIDE)	PA
EPA 624.1	1,3,5-TRIMETHYLBENZENE	PA
EPA 624.1	1,3-DICHLOROPROPANE	PA
EPA 6020 B	POTASSIUM	PA
EPA 6020 B	SILVER	PA
EPA 6020 B	THALLIUM	PA
EPA 6020 B	VANADIUM	PA
EPA 6020 B - EXTENDED	STRONTIUM	PA
EPA 6020 B - EXTENDED	URANIUM (MASS)	PA
EPA 608.3	4,4'-DDE	PA
EPA 608.3	ALDRIN	PA
EPA 608.3	ALPHA-CHLORDANE (CIS-CHLORDANE)	PA
EPA 608.3	AROCLOR-1221 (PCB-1221)	PA
EPA 608.3	AROCLOR-1242 (PCB-1242)	PA
EPA 608.3	AROCLOR-1254 (PCB-1254)	PA
EPA 608.3	BETA-BHC (BETA-HEXACHLOROCYCLOHEXANE)	PA
EPA 608.3	DELTA-BHC	PA
EPA 608.3	ENDOSULFAN I	PA
EPA 608.3	ENDOSULFAN SULFATE	PA
EPA 608.3	ENDRIN ALDEHYDE	PA
EPA 608.3	GAMMA-BHC (LINDANE, GAMMA-HEXACHLOROCYCLOHEXANE)	PA
EPA 608.3	HEPTACHLOR	PA
EPA 608.3	METHOXYCHLOR	PA
EPA 608.3	TOXAPHENE (CHLORINATED CAMPHENE)	PA
EPA 624.1	1,1,1-TRICHLOROETHANE	PA
EPA 624.1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113)	PA
EPA 624.1	1,1-DICHLOROETHANE	PA
EPA 624.1	1,1-DICHLOROPROPENE	PA
EPA 624.1	1,2,3-TRICHLOROPROPANE	PA
EPA 624.1	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	PA
EPA 624.1	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	PA
EPA 624.1	1,2-DICHLOROPROPANE	PA
EPA 624.1	1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	PA



Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services



Scope of Accreditation

VELAP Certificate No.: 12574

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

Virginia Laboratory ID: 460182
Effective Date: July 15, 2023
Expiration Date: June 14, 2024

NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
EPA 624.1	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	PA
EPA 624.1	2,2-DICHLOROPROPANE	PA
EPA 624.1	2-CHLOROETHYL VINYL ETHER	PA
EPA 624.1	2-HEXANONE	PA
EPA 624.1	4-ISOPROPYLTOLUENE (P-CYMENE, P-ISOPROPYLTOLUENE)	PA
EPA 624.1	ACETONE	PA
EPA 624.1	ACROLEIN (PROPENAL)	PA
EPA 624.1	BENZENE	PA
EPA 624.1	BROMOBENZENE	PA
EPA 624.1	BROMODICHLOROMETHANE	PA
EPA 624.1	CARBON DISULFIDE	PA
EPA 624.1	CHLOROBENZENE	PA
EPA 624.1	CHLOROETHANE (ETHYL CHLORIDE)	PA
EPA 624.1	CHLOROPRENE (2-CHLORO-1,3-BUTADIENE)	PA
EPA 624.1	CIS-1,3-DICHLOROPROPENE	PA
EPA 624.1	DI-ISOPROPYLETHER (DIPE, ISOPROPYL ETHER)	PA
EPA 624.1	DICHLORODIFLUOROMETHANE (FREON-12)	PA
EPA 624.1	ETHYL METHACRYLATE	PA
EPA 624.1	ETHYLBENZENE	PA
EPA 624.1	IODOMETHANE (METHYL IODIDE)	PA
EPA 624.1	ISOPROPYL ALCOHOL (2-PROPANOL, ISOPROPANOL)	PA
EPA 624.1	M+P-XYLENE	PA
EPA 624.1	METHYL BROMIDE (BROMOMETHANE)	PA
EPA 624.1	METHYL METHACRYLATE	PA
EPA 624.1	METHYLENE CHLORIDE (DICHLOROMETHANE)	PA
EPA 624.1	N-PROPYLBENZENE	PA
EPA 624.1	O-XYLENE	PA
EPA 624.1	SEC-BUTYLBENZENE	PA
EPA 624.1	TERT-AMYL ETHYL ETHER (TAEE)	PA

METHOD	ANALYTE	PRIMARY
EPA 624.1	1,4-DIOXANE (P-DIOXANE /1,4-DIETHYLENEOXIDE)	PA
EPA 624.1	2-BUTANONE (METHYL ETHYL KETONE, MEK)	PA
EPA 624.1	2-CHLOROTOLUENE	PA
EPA 624.1	4-CHLOROTOLUENE	PA
EPA 624.1	4-METHYL-2-PENTANONE (METHYL ISOBUTYL KETONE, MIBK)	PA
EPA 624.1	ACETONITRILE	PA
EPA 624.1	ACRYLONITRILE	PA
EPA 624.1	BENZYL CHLORIDE	PA
EPA 624.1	BROMOCHLOROMETHANE	PA
EPA 624.1	BROMOFORM	PA
EPA 624.1	CARBON TETRACHLORIDE	PA
EPA 624.1	CHLORODIBROMOMETHANE	PA
EPA 624.1	CHLOROFORM	PA
EPA 624.1	CIS-1,2-DICHLOROETHYLENE	PA
EPA 624.1	CYCLOHEXANE	PA
EPA 624.1	DIBROMOMETHANE (METHYLENE BROMIDE)	PA
EPA 624.1	ETHYL ACETATE	PA
EPA 624.1	ETHYL-T-BUTYLETHER (2-ETHOXY-2-METHYLPROPANE, ETBE)	PA
EPA 624.1	HEXACHLOROBUTADIENE (1,3-HEXACHLOROBUTADIENE)	PA
EPA 624.1	ISOBUTYL ALCOHOL (2-METHYL-1-PROPANOL)	PA
EPA 624.1	ISOPROPYLBENZENE	PA
EPA 624.1	METHACRYLONITRILE	PA
EPA 624.1	METHYL CHLORIDE (CHLOROMETHANE)	PA
EPA 624.1	METHYL TERT-BUTYL ETHER (MTBE)	PA
EPA 624.1	N-BUTYLBENZENE	PA
EPA 624.1	NAPHTHALENE	PA
EPA 624.1	PROPIONITRILE (ETHYL CYANIDE)	PA
EPA 624.1	STYRENE	PA
EPA 624.1	TERT-BUTYL ALCOHOL (2-METHYL-2-PROPANOL)	PA

Scope of Accreditation

VELAP Certificate No.: 12574

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

Virginia Laboratory ID: 460182
Effective Date: July 15, 2023
Expiration Date: June 14, 2024

NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
EPA 624.1	TERT-BUTYLBENZENE	PA
EPA 624.1	TETRAHYDROFURAN (THF)	PA
EPA 624.1	TRANS-1,2-DICHLOROETHENE	PA
EPA 624.1	TRANS-1,4-DICHLORO-2-BUTENE	PA
EPA 624.1	TRICHLOROFLUOROMETHANE (FLUOROTRICHLOROMETHANE, FREON 11)	PA
EPA 624.1	VINYL CHLORIDE (CHLOROETHENE)	PA
EPA 624.1 EXTENDED	1,2,4-TRICHLOROBENZENE	PA
EPA 624.1 EXTENDED	N-HEXANE	PA
EPA 625.1	1,2,4,5-TETRACHLOROBENZENE	PA
EPA 625.1	1,2-DIPHENYLHYDRAZINE	PA
EPA 625.1	2,3,4,6-TETRACHLOROPHENOL	PA
EPA 625.1	2,4,5-TRICHLOROPHENOL	PA
EPA 625.1	2,4-DICHLOROPHENOL	PA
EPA 625.1	2,4-DINITROPHENOL	PA
EPA 625.1	2,6-DICHLOROPHENOL	PA
EPA 625.1	2-CHLORONAPHTHALENE	PA
EPA 625.1	2-METHYL-4,6-DINITROPHENOL (4,6-DINITRO-2-METHYLPHENOL)	PA
EPA 625.1	2-METHYLPHENOL (O-CRESOL)	PA
EPA 625.1	2-NITROPHENOL	PA
EPA 625.1	3,3'-DICHLOROBENZIDINE	PA
EPA 625.1	4-BROMOPHENYL PHENYL ETHER (BDE-3)	PA
EPA 625.1	4-CHLOROANILINE	PA
EPA 625.1	4-NITROANILINE	PA
EPA 625.1	ACENAPHTHENE	PA
EPA 625.1	ACETOPHENONE	PA
EPA 625.1	ANILINE	PA
EPA 625.1	BENZIDINE	PA
EPA 625.1	BENZO(A)PYRENE	PA
EPA 625.1	BENZO(G,H,I)PERYLENE	PA
EPA 625.1	BENZOIC ACID	PA
EPA 625.1	BIS(2-CHLOROETHOXY)METHANE	PA
EPA 625.1	BIS(2-ETHYLHEXYL) PHTHALATE (DI(2-ETHYLHEXYL)PHTHALATE), (DEHP)	PA
EPA 624.1	TETRACHLOROETHENE (PERCHLOROETHENE)	PA
EPA 624.1	TOLUENE	PA
EPA 624.1	TRANS-1,3-DICHLOROPROPENE (TRANS-1,3-DICHLOROPROPYLENE)	PA
EPA 624.1	TRICHLOROETHENE (TRICHLOROETHYLENE)	PA
EPA 624.1	VINYL ACETATE	PA
EPA 624.1	XYLENE (TOTAL)	PA
EPA 624.1 EXTENDED	ISOPROPYL ACETATE	PA
EPA 625.1	1,1'-BIPHENYL (BZ-0)	PA
EPA 625.1	1,2,4-TRICHLOROBENZENE	PA
EPA 625.1	2,2'-OXYBIS(1-CHLOROPROPANE)	PA
EPA 625.1	2,3-DICHLOROANILINE	PA
EPA 625.1	2,4,6-TRICHLOROPHENOL	PA
EPA 625.1	2,4-DIMETHYLPHENOL	PA
EPA 625.1	2,4-DINITROTOLUENE (2,4-DNT)	PA
EPA 625.1	2,6-DINITROTOLUENE (2,6-DNT)	PA
EPA 625.1	2-CHLOROPHENOL	PA
EPA 625.1	2-METHYLNAPHTHALENE	PA
EPA 625.1	2-NITROANILINE	PA
EPA 625.1	3+4-METHYLPHENOL (M+P CRESOL)	PA
EPA 625.1	3-NITROANILINE	PA
EPA 625.1	4-CHLORO-3-METHYLPHENOL	PA
EPA 625.1	4-CHLOROPHENYL PHENYLETHER	PA
EPA 625.1	4-NITROPHENOL	PA
EPA 625.1	ACENAPHTHYLENE	PA
EPA 625.1	ALPHA-TERPINEOL	PA
EPA 625.1	ANTHRACENE	PA
EPA 625.1	BENZO(A)ANTHRACENE	PA
EPA 625.1	BENZO(B)FLUORANTHENE	PA
EPA 625.1	BENZO(K)FLUORANTHENE	PA
EPA 625.1	BENZYL ALCOHOL	PA
EPA 625.1	BIS(2-CHLOROETHYL) ETHER	PA
EPA 625.1	BUTYL BENZYL PHTHALATE	PA



Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services



Scope of Accreditation

VELAP Certificate No.: 12574

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

Virginia Laboratory ID: 460182
Effective Date: July 15, 2023
Expiration Date: June 14, 2024

NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
EPA 625.1	CARBAZOLE	PA
EPA 625.1	DI-N-BUTYL PHTHALATE	PA
EPA 625.1	DIBENZO(A,H) ANTHRACENE	PA
EPA 625.1	DIETHYL PHTHALATE	PA
EPA 625.1	DIPHENYL ETHER (DIPHENYL OXIDE)	PA
EPA 625.1	FLUORENE	PA
EPA 625.1	HEXACHLOROBUTADIENE (1,3-HEXACHLOROBUTADIENE)	PA
EPA 625.1	HEXACHLOROETHANE	PA
EPA 625.1	ISOPHORONE	PA
EPA 625.1	N-NITROSO-DI-N-BUTYLAMINE	PA
EPA 625.1	N-NITROSODIETHYLAMINE	PA
EPA 625.1	N-NITROSODIPHENYLAMINE	PA
EPA 625.1	N-OCTADECANE	PA
EPA 625.1	NITROBENZENE	PA
EPA 625.1	PENTACHLOROPHENOL	PA
EPA 625.1	PHENOL	PA
EPA 625.1	PYRIDINE	PA
EPA 7196 A	CHROMIUM VI	PA
EPA 7470 A	MERCURY	PA
EPA 8011	1,2-DIBROMOETHANE (EDB, ETHYLENE DIBROMIDE)	PA
EPA 8015 C	ETHANOL	PA
EPA 8015 C	GASOLINE RANGE ORGANICS (GRO)	PA
EPA 8015 C	METHANOL	PA
EPA 8015 C - EXTENDED	TRIETHYLENE GLYCOL	PA
EPA 8015 D	ETHANOL	PA
EPA 8015 D	ISOPROPYL ALCOHOL (2-PROPANOL, ISOPROPANOL)	PA
EPA 8015 D	N-PROPANOL (1-PROPANOL)	PA
EPA 8015 D - EXTENDED	ETHYLENE GLYCOL	PA
EPA 8015 D - EXTENDED	PROPYLENE GLYCOL	PA
EPA 8081 B	4,4'-DDD	PA
EPA 8081 B	4,4'-DDT	PA
EPA 8081 B	ALPHA-BHC (ALPHA-HEXACHLOROCYCLOHEXANE)	PA
EPA 625.1	CHRYSENE	PA
EPA 625.1	DI-N-OCTYL PHTHALATE	PA
EPA 625.1	DIBENZOFURAN	PA
EPA 625.1	DIMETHYL PHTHALATE	PA
EPA 625.1	FLUORANTHENE	PA
EPA 625.1	HEXACHLOROBENZENE	PA
EPA 625.1	HEXACHLOROCYCLOPENTADIENE	PA
EPA 625.1	INDENO(1,2,3-CD) PYRENE	PA
EPA 625.1	N-DECANE	PA
EPA 625.1	N-NITROSODI-N-PROPYLAMINE	PA
EPA 625.1	N-NITROSODIMETHYLAMINE	PA
EPA 625.1	N-NITROSOPYRROLIDINE	PA
EPA 625.1	NAPHTHALENE	PA
EPA 625.1	PENTACHLOROBENZENE	PA
EPA 625.1	PHENANTHRENE	PA
EPA 625.1	PYRENE	PA
EPA 6850	PERCHLORATE	PA
EPA 7199	CHROMIUM VI	PA
EPA 8011	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	PA
EPA 8015 C	DIESEL RANGE ORGANICS (DRO)	PA
EPA 8015 C	ETHYLENE GLYCOL	PA
EPA 8015 C	ISOPROPYL ALCOHOL (2-PROPANOL, ISOPROPANOL)	PA
EPA 8015 C - EXTENDED	PROPYLENE GLYCOL	PA
EPA 8015 D	DIESEL RANGE ORGANICS (DRO)	PA
EPA 8015 D	GASOLINE RANGE ORGANICS (GRO)	PA
EPA 8015 D	METHANOL	PA
EPA 8015 D - EXTENDED	1-BUTANOL (N-BUTANOL, N-BUTYL ALCOHOL)	PA
EPA 8015 D - EXTENDED	ISOBUTYL ALCOHOL (2-METHYL-1-PROPANOL)	PA
EPA 8015 D - EXTENDED	TRIETHYLENE GLYCOL	PA
EPA 8081 B	4,4'-DDE	PA
EPA 8081 B	ALDRIN	PA
EPA 8081 B	ALPHA-CHLORDANE (CIS-CHLORDANE)	PA



Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services



Scope of Accreditation

VELAP Certificate No.: 12574

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

Virginia Laboratory ID: 460182
Effective Date: July 15, 2023
Expiration Date: June 14, 2024

NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
EPA 8081 B	BETA-BHC (BETA-HEXACHLOROCYCLOHEXANE)	PA
EPA 8081 B	DELTA-BHC	PA
EPA 8081 B	ENDOSULFAN I	PA
EPA 8081 B	ENDOSULFAN SULFATE	PA
EPA 8081 B	ENDRIN ALDEHYDE	PA
EPA 8081 B	GAMMA-BHC (LINDANE, GAMMA-HEXACHLOROCYCLOHEXANE)	PA
EPA 8081 B	HEPTACHLOR	PA
EPA 8081 B	METHOXYCHLOR	PA
EPA 8081 B - EXTENDED	2,4'-DDD	PA
EPA 8081 B - EXTENDED	2,4'-DDT	PA
EPA 8081 B - EXTENDED	MIREX	PA
EPA 8082 A	AROCLOR-1221 (PCB-1221)	PA
EPA 8082 A	AROCLOR-1242 (PCB-1242)	PA
EPA 8082 A	AROCLOR-1254 (PCB-1254)	PA
EPA 8082 A - EXTENDED	AROCLOR-1262 (PCB-1262)	PA
EPA 8151 A	2,4,5-T	PA
EPA 8151 A	2,4-DB	PA
EPA 8151 A	DICAMBA	PA
EPA 8151 A	DINOSEB (2-SEC-BUTYL-4,6-DINITROPHENOL, DNBP)	PA
EPA 8151 A	MCPP	PA
EPA 8151 A	PICLORAM	PA
EPA 8260 C	1,1,1,2-TETRACHLOROETHANE	PA
EPA 8260 C	1,1,2,2-TETRACHLOROETHANE	PA
EPA 8260 C	1,1-DICHLOROETHANE	PA
EPA 8260 C	1,1-DICHLOROPROPENE	PA
EPA 8260 C	1,2,3-TRICHLOROPROPANE	PA
EPA 8260 C	1,2,4-TRIMETHYLBENZENE	PA
EPA 8260 C	1,2-DIBROMOETHANE (EDB, ETHYLENE DIBROMIDE)	PA
EPA 8260 C	1,2-DICHLOROETHANE (ETHYLENE DICHLORIDE)	PA
EPA 8260 C	1,3,5-TRIMETHYLBENZENE	PA
EPA 8260 C	1,3-DICHLOROPROPANE	PA

METHOD	ANALYTE	PRIMARY
EPA 8081 B	CHLORDANE, TOTAL	PA
EPA 8081 B	DIELDRIN	PA
EPA 8081 B	ENDOSULFAN II	PA
EPA 8081 B	ENDRIN	PA
EPA 8081 B	ENDRIN KETONE	PA
EPA 8081 B	GAMMA-CHLORDANE (TRANS-CHLORDANE)	PA
EPA 8081 B	HEPTACHLOR EPOXIDE	PA
EPA 8081 B	TOXAPHENE (CHLORINATED CAMPHENE)	PA
EPA 8081 B - EXTENDED	2,4'-DDE	PA
EPA 8081 B - EXTENDED	KEPONE	PA
EPA 8082 A	AROCLOR-1016 (PCB-1016)	PA
EPA 8082 A	AROCLOR-1232 (PCB-1232)	PA
EPA 8082 A	AROCLOR-1248 (PCB-1248)	PA
EPA 8082 A	AROCLOR-1260 (PCB-1260)	PA
EPA 8082 A - EXTENDED	AROCLOR-1268 (PCB-1268)	PA
EPA 8151 A	2,4-D	PA
EPA 8151 A	DALAPON	PA
EPA 8151 A	DICHLOROPROP (DICHLORPROP)	PA
EPA 8151 A	MCPA	PA
EPA 8151 A	PENTACHLOROPHENOL	PA
EPA 8151 A	SILVEX (2,4,5-TP)	PA
EPA 8260 C	1,1,1-TRICHLOROETHANE	PA
EPA 8260 C	1,1,2-TRICHLOROETHANE	PA
EPA 8260 C	1,1-DICHLOROETHYLENE	PA
EPA 8260 C	1,2,3-TRICHLOROBENZENE	PA
EPA 8260 C	1,2,4-TRICHLOROBENZENE	PA
EPA 8260 C	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	PA
EPA 8260 C	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	PA
EPA 8260 C	1,2-DICHLOROPROPANE	PA
EPA 8260 C	1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	PA
EPA 8260 C	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	PA



Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services



Scope of Accreditation

VELAP Certificate No.: 12574

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

Virginia Laboratory ID: 460182
Effective Date: July 15, 2023
Expiration Date: June 14, 2024

NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
EPA 8260 C	1,4-DIOXANE (P-DIOXANE /1,4-DIETHYLENEOXIDE)	PA
EPA 8260 C	2,2-DICHLOROPROPANE	PA
EPA 8260 C	2-CHLOROETHYL VINYL ETHER	PA
EPA 8260 C	2-HEXANONE	PA
EPA 8260 C	4-CHLOROTOLUENE	PA
EPA 8260 C	4-METHYL-2-PENTANONE (METHYL ISOBUTYL KETONE, MIBK)	PA
EPA 8260 C	ACETONITRILE	PA
EPA 8260 C	ACRYLONITRILE	PA
EPA 8260 C	BENZENE	PA
EPA 8260 C	BROMOBENZENE	PA
EPA 8260 C	BROMODICHLOROMETHANE	PA
EPA 8260 C	CARBON DISULFIDE	PA
EPA 8260 C	CHLOROBENZENE	PA
EPA 8260 C	CHLOROETHANE (ETHYL CHLORIDE)	PA
EPA 8260 C	CHLOROPRENE (2-CHLORO-1,3-BUTADIENE)	PA
EPA 8260 C	CIS-1,3-DICHLOROPROPENE	PA
EPA 8260 C	DIBROMOMETHANE (METHYLENE BROMIDE)	PA
EPA 8260 C	DIETHYL ETHER	PA
EPA 8260 C	ETHYL ACETATE	PA
EPA 8260 C	ETHYL-T-BUTYLETHER (2-ETHOXY-2-METHYLPROPANE, ETBE)	PA
EPA 8260 C	HEXACHLOROBUTADIENE (1,3-HEXACHLOROBUTADIENE)	PA
EPA 8260 C	ISOBUTYL ALCOHOL (2-METHYL-1-PROPANOL)	PA
EPA 8260 C	ISOPROPYLBENZENE	PA
EPA 8260 C	METHACRYLONITRILE	PA
EPA 8260 C	METHYL CHLORIDE (CHLOROMETHANE)	PA
EPA 8260 C	METHYL TERT-BUTYL ETHER (MTBE)	PA
EPA 8260 C	METHYLENE CHLORIDE (DICHLOROMETHANE)	PA
EPA 8260 C	N-PROPYLBENZENE	PA
EPA 8260 C	O-XYLENE	PA
EPA 8260 C	1-BUTANOL (N-BUTANOL, N-BUTYL ALCOHOL)	PA
EPA 8260 C	2-BUTANONE (METHYL ETHYL KETONE, MEK)	PA
EPA 8260 C	2-CHLOROTOLUENE	PA
EPA 8260 C	2-NITROPROPANE	PA
EPA 8260 C	4-ISOPROPYLTOLUENE (P-CYMENE, P-ISOPROPYLTOLUENE)	PA
EPA 8260 C	ACETONE	PA
EPA 8260 C	ACROLEIN (PROPENAL)	PA
EPA 8260 C	ALLYL CHLORIDE (3-CHLOROPROPENE)	PA
EPA 8260 C	BENZYL CHLORIDE	PA
EPA 8260 C	BROMOCHLOROMETHANE	PA
EPA 8260 C	BROMOFORM	PA
EPA 8260 C	CARBON TETRACHLORIDE	PA
EPA 8260 C	CHLORODIBROMOMETHANE	PA
EPA 8260 C	CHLOROFORM	PA
EPA 8260 C	CIS-1,2-DICHLOROETHYLENE	PA
EPA 8260 C	CYCLOHEXANE	PA
EPA 8260 C	DICHLORODIFLUOROMETHANE (FREON-12)	PA
EPA 8260 C	ETHANOL	PA
EPA 8260 C	ETHYL METHACRYLATE	PA
EPA 8260 C	ETHYLBENZENE	PA
EPA 8260 C	IODOMETHANE (METHYL IODIDE)	PA
EPA 8260 C	ISOPROPYL ALCOHOL (2-PROPANOL, ISOPROPANOL)	PA
EPA 8260 C	M+P-XYLENE	PA
EPA 8260 C	METHYL BROMIDE (BROMOMETHANE)	PA
EPA 8260 C	METHYL METHACRYLATE	PA
EPA 8260 C	METHYLCYCLOHEXANE	PA
EPA 8260 C	N-BUTYLBENZENE	PA
EPA 8260 C	NAPHTHALENE	PA
EPA 8260 C	PENTACHLOROETHANE	PA

Scope of Accreditation

VELAP Certificate No.: 12574

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

Virginia Laboratory ID: 460182
Effective Date: July 15, 2023
Expiration Date: June 14, 2024

NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
EPA 8260 C	PROPIONITRILE (ETHYL CYANIDE)	PA
EPA 8260 C	STYRENE	PA
EPA 8260 C	TERT-BUTYL ALCOHOL (2-METHYL-2-PROPANOL)	PA
EPA 8260 C	TETRACHLOROETHENE (PERCHLOROETHENE)	PA
EPA 8260 C	TRANS-1,2-DICHLOROETHENE	PA
EPA 8260 C	TRANS-1,4-DICHLORO-2-BUTENE	PA
EPA 8260 C	TRICHLOROFLUOROMETHANE (FLUOROTRICHLOROMETHANE, FREON 11)	PA
EPA 8260 C	VINYL CHLORIDE (CHLOROETHENE)	PA
EPA 8260 C - EXTENDED	1,1,2-TRICHLORO-1,2,2-TRIFLUORO ETHANE (FREON 113)	PA
EPA 8260 C - EXTENDED	1,2-DICHLORO-1,1,2-TRIFLUOROET HANE (FREON 123A)	PA
EPA 8260 C - EXTENDED	1,3-BUTADIENE	PA
EPA 8260 C - EXTENDED	CYCLOHEXANONE	PA
EPA 8260 C - EXTENDED	DIMETHYL ETHER	PA
EPA 8260 C - EXTENDED	METHYL ACETATE	PA
EPA 8260 C - EXTENDED	N-HEPTANE	PA
EPA 8260 C - EXTENDED	TERT-AMYL ALCOHOL (TAA)	PA
EPA 8260 C - EXTENDED	TETRAHYDROFURAN (THF)	PA
EPA 8260 D	1,1,1,2-TETRACHLOROETHANE	PA
EPA 8260 D	1,1,2,2-TETRACHLOROETHANE	PA
EPA 8260 D	1,1,2-TRICHLOROETHANE	PA
EPA 8260 D	1,1-DICHLOROETHYLENE	PA
EPA 8260 D	1,2,3-TRICHLOROBENZENE	PA
EPA 8260 D	1,2,3-TRIMETHYLBENZENE	PA
EPA 8260 D	1,2,4-TRIMETHYLBENZENE	PA
EPA 8260 D	1,2-DIBROMOETHANE (EDB, ETHYLENE DIBROMIDE)	PA
EPA 8260 D	1,2-DICHLOROETHANE (ETHYLENE DICHLORIDE)	PA
EPA 8260 D	1,3,5-TRIMETHYLBENZENE	PA
EPA 8260 D	1,3-DICHLOROPROPANE	PA

METHOD	ANALYTE	PRIMARY
EPA 8260 C	SEC-BUTYLBENZENE	PA
EPA 8260 C	TERT-AMYL METHYL ETHER (TAME)	PA
EPA 8260 C	TERT-BUTYLBENZENE	PA
EPA 8260 C	TOLUENE	PA
EPA 8260 C	TRANS-1,3-DICHLOROPROPENE (TRANS-1,3-DICHLOROPROPYLENE)	PA
EPA 8260 C	TRICHLOROETHENE (TRICHLOROETHYLENE)	PA
EPA 8260 C	VINYL ACETATE	PA
EPA 8260 C	XYLENE (TOTAL)	PA
EPA 8260 C - EXTENDED	1,2,3-TRIMETHYLBENZENE	PA
EPA 8260 C - EXTENDED	1,3,5-TRICHLOROBENZENE	PA
EPA 8260 C - EXTENDED	3,3-DIMETHYL-1-BUTANOL	PA
EPA 8260 C - EXTENDED	DIISOPROPYLETHER (DIPE, ISOPROPYL ETHER)	PA
EPA 8260 C - EXTENDED	GASOLINE RANGE ORGANICS (GRO)	PA
EPA 8260 C - EXTENDED	N-BUTYL-ACETATE	PA
EPA 8260 C - EXTENDED	N-HEXANE	PA
EPA 8260 C - EXTENDED	TERT-BUTYL FORMATE	PA
EPA 8260 C SIM	1,4-DIOXANE (P-DIOXANE /1,4-DIETHYLENEOXIDE)	PA
EPA 8260 D	1,1,1-TRICHLOROETHANE	PA
EPA 8260 D	1,1,2-TRICHLORO-1,2,2-TRIFLUORO ETHANE (FREON 113)	PA
EPA 8260 D	1,1-DICHLOROETHANE	PA
EPA 8260 D	1,1-DICHLOROPROPENE	PA
EPA 8260 D	1,2,3-TRICHLOROPROPANE	PA
EPA 8260 D	1,2,4-TRICHLOROBENZENE	PA
EPA 8260 D	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	PA
EPA 8260 D	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	PA
EPA 8260 D	1,2-DICHLOROPROPANE	PA
EPA 8260 D	1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	PA
EPA 8260 D	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	PA



Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services



Scope of Accreditation

VELAP Certificate No.: 12574

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

Virginia Laboratory ID: 460182
Effective Date: July 15, 2023
Expiration Date: June 14, 2024

NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
EPA 8260 D	1,4-DIOXANE (P-DIOXANE /1,4-DIETHYLENEOXIDE)	PA
EPA 8260 D	2,2-DICHLOROPROPANE	PA
EPA 8260 D	2-CHLOROETHYL VINYL ETHER	PA
EPA 8260 D	2-HEXANONE	PA
EPA 8260 D	4-CHLOROTOLUENE	PA
EPA 8260 D	4-METHYL-2-PENTANONE (METHYL ISOBUTYL KETONE, MIBK)	PA
EPA 8260 D	ACETONITRILE	PA
EPA 8260 D	ACRYLONITRILE	PA
EPA 8260 D	BENZENE	PA
EPA 8260 D	BROMOBENZENE	PA
EPA 8260 D	BROMODICHLOROMETHANE	PA
EPA 8260 D	CARBON DISULFIDE	PA
EPA 8260 D	CHLOROBENZENE	PA
EPA 8260 D	CHLOROETHANE (ETHYL CHLORIDE)	PA
EPA 8260 D	CHLOROPRENE (2-CHLORO-1,3-BUTADIENE)	PA
EPA 8260 D	CIS-1,3-DICHLOROPROPENE	PA
EPA 8260 D	DI-ISOPROPYLETHER (DIPE, ISOPROPYL ETHER)	PA
EPA 8260 D	DICHLORODIFLUOROMETHANE (FREON-12)	PA
EPA 8260 D	ETHANOL	PA
EPA 8260 D	ETHYL METHACRYLATE	PA
EPA 8260 D	ETHYLBENZENE	PA
EPA 8260 D	IODOMETHANE (METHYL IODIDE)	PA
EPA 8260 D	ISOPROPYL ALCOHOL (2-PROPANOL, ISOPROPANOL)	PA
EPA 8260 D	M+P-XYLENE	PA
EPA 8260 D	METHYL ACETATE	PA
EPA 8260 D	METHYL CHLORIDE (CHLOROMETHANE)	PA
EPA 8260 D	METHYL TERT-BUTYL ETHER (MTBE)	PA
EPA 8260 D	METHYLENE CHLORIDE (DICHLOROMETHANE)	PA

METHOD	ANALYTE	PRIMARY
EPA 8260 D	1-BUTANOL (N-BUTANOL, N-BUTYL ALCOHOL)	PA
EPA 8260 D	2-BUTANONE (METHYL ETHYL KETONE, MEK)	PA
EPA 8260 D	2-CHLOROTOLUENE	PA
EPA 8260 D	2-NITROPROPANE	PA
EPA 8260 D	4-ISOPROPYLTOLUENE (P-CYMENE, P-ISOPROPYLTOLUENE)	PA
EPA 8260 D	ACETONE	PA
EPA 8260 D	ACROLEIN (PROPENAL)	PA
EPA 8260 D	ALLYL CHLORIDE (3-CHLOROPROPENE)	PA
EPA 8260 D	BENZYL CHLORIDE	PA
EPA 8260 D	BROMOCHLOROMETHANE	PA
EPA 8260 D	BROMOFORM	PA
EPA 8260 D	CARBON TETRACHLORIDE	PA
EPA 8260 D	CHLORODIBROMOMETHANE	PA
EPA 8260 D	CHLOROFORM	PA
EPA 8260 D	CIS-1,2-DICHLOROETHYLENE	PA
EPA 8260 D	CYCLOHEXANE	PA
EPA 8260 D	DIBROMOMETHANE (METHYLENE BROMIDE)	PA
EPA 8260 D	DIETHYL ETHER	PA
EPA 8260 D	ETHYL ACETATE	PA
EPA 8260 D	ETHYL-T-BUTYLETHER (2-ETHOXY-2-METHYLPROPANE, ETBE)	PA
EPA 8260 D	HEXACHLOROBUTADIENE (1,3-HEXACHLOROBUTADIENE)	PA
EPA 8260 D	ISOBUTYL ALCOHOL (2-METHYL-1-PROPANOL)	PA
EPA 8260 D	ISOPROPYLBENZENE	PA
EPA 8260 D	METHACRYLONITRILE	PA
EPA 8260 D	METHYL BROMIDE (BROMOMETHANE)	PA
EPA 8260 D	METHYL METHACRYLATE	PA
EPA 8260 D	METHYLCYCLOHEXANE	PA
EPA 8260 D	N-BUTYLBENZENE	PA

Scope of Accreditation

VELAP Certificate No.: 12574

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

Virginia Laboratory ID: 460182
Effective Date: July 15, 2023
Expiration Date: June 14, 2024

NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
EPA 8260 D	N-PROPYLBENZENE	PA
EPA 8260 D	O-XYLENE	PA
EPA 8260 D	PROPIONITRILE (ETHYL CYANIDE)	PA
EPA 8260 D	STYRENE	PA
EPA 8260 D	TERT-BUTYL ALCOHOL (2-METHYL-2-PROPANOL)	PA
EPA 8260 D	TETRACHLOROETHENE (PERCHLOROETHENE)	PA
EPA 8260 D	TRANS-1,2-DICHLOROETHENE	PA
EPA 8260 D	TRANS-1,4-DICHLORO-2-BUTENE	PA
EPA 8260 D	TRICHLOROFLUOROMETHANE (FLUOROTRICHLOROMETHANE, FREON 11)	PA
EPA 8260 D	VINYL CHLORIDE (CHLOROETHENE)	PA
EPA 8260 D - EXTENDED	1,2-DICHLORO-1,1,2-TRIFLUOROETHANE (FREON 123A)	PA
EPA 8260 D - EXTENDED	1,3-BUTADIENE	PA
EPA 8260 D - EXTENDED	N-HEPTANE	PA
EPA 8260 D - EXTENDED	TETRAHYDROFURAN (THF)	PA
EPA 8270 D	1,2,4,5-TETRACHLOROBENZENE	PA
EPA 8270 D	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	PA
EPA 8270 D	1,3,5-TRINITROBENZENE (1,3,5-TNB)	PA
EPA 8270 D	1,3-DINITROBENZENE (1,3-DNB)	PA
EPA 8270 D	1,4-DINITROBENZENE (1,4-DNB)	PA
EPA 8270 D	1,4-PHENYLENEDIAMINE	PA
EPA 8270 D	1-NAPHTHYLAMINE	PA
EPA 8270 D	2,3,4,6-TETRACHLOROPHENOL	PA
EPA 8270 D	2,4,6-TRICHLOROPHENOL	PA
EPA 8270 D	2,4-DIMETHYLPHENOL	PA
EPA 8270 D	2,4-DINITROTOLUENE (2,4-DNT)	PA
EPA 8270 D	2,6-DINITROTOLUENE (2,6-DNT)	PA
EPA 8270 D	2-CHLORONAPHTHALENE	PA
EPA 8270 D	2-METHYL-4,6-DINITROPHENOL (4,6-DINITRO-2-METHYLPHENOL)	PA
EPA 8270 D	2-METHYLPHENOL (O-CRESOL)	PA
EPA 8270 D	2-NITROANILINE	PA
EPA 8270 D	2-PICOLINE (2-METHYLPYRIDINE)	PA
EPA 8260 D	NAPHTHALENE	PA
EPA 8260 D	PENTACHLOROETHANE	PA
EPA 8260 D	SEC-BUTYLBENZENE	PA
EPA 8260 D	TERT-AMYL METHYL ETHER (TAME)	PA
EPA 8260 D	TERT-BUTYLBENZENE	PA
EPA 8260 D	TOLUENE	PA
EPA 8260 D	TRANS-1,3-DICHLOROPROPENE (TRANS-1,3-DICHLOROPROPYLENE)	PA
EPA 8260 D	TRICHLOROETHENE (TRICHLOROETHYLENE)	PA
EPA 8260 D	VINYL ACETATE	PA
EPA 8260 D	XYLENE (TOTAL)	PA
EPA 8260 D - EXTENDED	1,3,5-TRICHLOROBENZENE	PA
EPA 8260 D - EXTENDED	N-BUTYL-ACETATE	PA
EPA 8260 D - EXTENDED	N-HEXANE	PA
EPA 8260 D SIM	1,4-DIOXANE (P-DIOXANE /1,4-DIETHYLENEOXIDE)	PA
EPA 8270 D	1,2,4-TRICHLOROBENZENE	PA
EPA 8270 D	1,2-DIPHENYLHYDRAZINE	PA
EPA 8270 D	1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	PA
EPA 8270 D	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	PA
EPA 8270 D	1,4-NAPHTHOQUINONE	PA
EPA 8270 D	1-CHLORONAPHTHALENE	PA
EPA 8270 D	2,2'-OXYBIS(1-CHLOROPROPANE)	PA
EPA 8270 D	2,4,5-TRICHLOROPHENOL	PA
EPA 8270 D	2,4-DICHLOROPHENOL	PA
EPA 8270 D	2,4-DINITROPHENOL	PA
EPA 8270 D	2,6-DICHLOROPHENOL	PA
EPA 8270 D	2-ACETYLAMINOFLUORENE	PA
EPA 8270 D	2-CHLOROPHENOL	PA
EPA 8270 D	2-METHYLNAPHTHALENE	PA
EPA 8270 D	2-NAPHTHYLAMINE	PA
EPA 8270 D	2-NITROPHENOL	PA
EPA 8270 D	3,3'-DICHLOROBENZIDINE	PA



Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services



Scope of Accreditation

VELAP Certificate No.: 12574

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

Virginia Laboratory ID: 460182
Effective Date: July 15, 2023
Expiration Date: June 14, 2024

NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
EPA 8270 D	3,3'-DIMETHYLBENZIDINE	PA
EPA 8270 D	3-NITROANILINE	PA
EPA 8270 D	4-AMINOBIPHENYL	PA
EPA 8270 D	4-CHLORO-3-METHYLPHENOL	PA
EPA 8270 D	4-CHLOROPHENYL PHENYLETHER	PA
EPA 8270 D	4-NITROANILINE	PA
EPA 8270 D	4-NITROQUINOLINE-1-OXIDE	PA
EPA 8270 D	7,12-DIMETHYLBENZ(A) ANTHRACENE	PA
EPA 8270 D	ACENAPHTHENE	PA
EPA 8270 D	ACETOPHENONE	PA
EPA 8270 D	ANTHRACENE	PA
EPA 8270 D	BENZIDINE	PA
EPA 8270 D	BENZO(A)PYRENE	PA
EPA 8270 D	BENZO(G,H,I)PERYLENE	PA
EPA 8270 D	BENZOIC ACID	PA
EPA 8270 D	BIS(2-CHLOROETHOXY)METHANE	PA
EPA 8270 D	BIS(2-ETHYLHEXYL) PHTHALATE (DI(2-ETHYLHEXYL)PHTHALATE), (DEHP)	PA
EPA 8270 D	CHLOROBENZILATE	PA
EPA 8270 D	DI-N-BUTYL PHTHALATE	PA
EPA 8270 D	DIALLATE	PA
EPA 8270 D	DIBENZO(A,H) ANTHRACENE	PA
EPA 8270 D	DIETHYL PHTHALATE	PA
EPA 8270 D	DIMETHYL PHTHALATE	PA
EPA 8270 D	DIPHENYLAMINE	PA
EPA 8270 D	ETHYL METHANESULFONATE	PA
EPA 8270 D	FLUORANTHENE	PA
EPA 8270 D	HEXACHLOROBENZENE	PA
EPA 8270 D	HEXACHLOROCYCLOPENTADIENE	PA
EPA 8270 D	HEXACHLOROPROPENE	PA
EPA 8270 D	ISODRIN	PA
EPA 8270 D	ISOSAFROLE	PA
EPA 8270 D	METHAPYRILENE	PA
EPA 8270 D	METHYL PARATHION (PARATHION, METHYL)	PA
EPA 8270 D	3-METHYLCHOLANTHRENE	PA
EPA 8270 D	4,4'-METHYLENEBIS-2-CHLOROANILINE	PA
EPA 8270 D	4-BROMOPHENYL PHENYL ETHER (BDE-3)	PA
EPA 8270 D	4-CHLOROANILINE	PA
EPA 8270 D	4-DIMETHYL AMINOAZOBENZENE	PA
EPA 8270 D	4-NITROPHENOL	PA
EPA 8270 D	5-NITRO-O-TOLUIDINE	PA
EPA 8270 D	A-A-DIMETHYLPHENETHYLAMINE	PA
EPA 8270 D	ACENAPHTHYLENE	PA
EPA 8270 D	ANILINE	PA
EPA 8270 D	ARAMITE	PA
EPA 8270 D	BENZO(A)ANTHRACENE	PA
EPA 8270 D	BENZO(B)FLUORANTHENE	PA
EPA 8270 D	BENZO(K)FLUORANTHENE	PA
EPA 8270 D	BENZYL ALCOHOL	PA
EPA 8270 D	BIS(2-CHLOROETHYL) ETHER	PA
EPA 8270 D	BUTYL BENZYL PHTHALATE	PA
EPA 8270 D	CHRYSENE	PA
EPA 8270 D	DI-N-OCTYL PHTHALATE	PA
EPA 8270 D	DIBENZ(A, J) ACRIDINE	PA
EPA 8270 D	DIBENZOFURAN	PA
EPA 8270 D	DIMETHOATE	PA
EPA 8270 D	DINOSEB (2-SEC-BUTYL-4,6-DINITROPHENOL, DNBP)	PA
EPA 8270 D	DISULFOTON	PA
EPA 8270 D	FAMPHUR	PA
EPA 8270 D	FLUORENE	PA
EPA 8270 D	HEXACHLOROBUTADIENE (1,3-HEXACHLOROBUTADIENE)	PA
EPA 8270 D	HEXACHLOROETHANE	PA
EPA 8270 D	INDENO(1,2,3-CD) PYRENE	PA
EPA 8270 D	ISOPHORONE	PA
EPA 8270 D	KEPONE	PA
EPA 8270 D	METHYL METHANESULFONATE	PA
EPA 8270 D	N-NITROSO-DI-N-BUTYLAMINE	PA



Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services



Scope of Accreditation

VELAP Certificate No.: 12574

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

Virginia Laboratory ID: 460182
Effective Date: July 15, 2023
Expiration Date: June 14, 2024

NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
EPA 8270 D	N-NITROSODI-N-PROPYLAMINE	PA
EPA 8270 D	N-NITROSODIMETHYLAMINE	PA
EPA 8270 D	N-NITROSOMETHYLETHYLAMINE	PA
EPA 8270 D	N-NITROSOPIPERIDINE	PA
EPA 8270 D	NAPHTHALENE	PA
EPA 8270 D	O,O,O-TRIETHYL PHOSPHOROTHIOATE	PA
EPA 8270 D	PARATHION (PARATHION - ETHYL)	PA
EPA 8270 D	PENTACHLORONITROBENZENE	PA
EPA 8270 D	PHENACETIN	PA
EPA 8270 D	PHENOL	PA
EPA 8270 D	PHTHALIC ANHYDRIDE	PA
EPA 8270 D	PYRENE	PA
EPA 8270 D	SULFOTEP (TETRAETHYL DITHIOPYROPHOSPHATE, TEDP)	PA
EPA 8270 D - EXTENDED	1,1'-BIPHENYL (BZ-0)	PA
EPA 8270 D - EXTENDED	1,2,3,5-TETRACHLOROBENZENE	PA
EPA 8270 D - EXTENDED	1-METHYLNAPHTHALENE	PA
EPA 8270 D - EXTENDED	6-METHYLCHRYSENE	PA
EPA 8270 D - EXTENDED	BENZALDEHYDE	PA
EPA 8270 D - EXTENDED	CARBAZOLE	PA
EPA 8270 D - EXTENDED	INDENE	PA
EPA 8270 D - EXTENDED	PYRIDINE	PA
EPA 8270 D SIM	2-METHYLNAPHTHALENE	PA
EPA 8270 D SIM	ACENAPHTHYLENE	PA
EPA 8270 D SIM	BENZO(A)ANTHRACENE	PA
EPA 8270 D SIM	BENZO(B)FLUORANTHENE	PA
EPA 8270 D SIM	BENZO(K)FLUORANTHENE	PA
EPA 8270 D SIM	DIBENZO(A,H) ANTHRACENE	PA
EPA 8270 D SIM	FLUORENE	PA
EPA 8270 D SIM	NAPHTHALENE	PA
EPA 8270 D SIM	PYRENE	PA
EPA 8270 D SIM - EXTENDED	1-METHYLNAPHTHALENE	PA
EPA 8270 E	1,2,4,5-TETRACHLOROBENZENE	PA
EPA 8270 E	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	PA
EPA 8270 D	N-NITROSODIETHYLAMINE	PA
EPA 8270 D	N-NITROSODIPHENYLAMINE	PA
EPA 8270 D	N-NITROSOMORPHOLINE	PA
EPA 8270 D	N-NITROSOPYRROLIDINE	PA
EPA 8270 D	NITROBENZENE	PA
EPA 8270 D	O-TOLUIDINE (2-METHYLANILINE)	PA
EPA 8270 D	PENTACHLOROBENZENE	PA
EPA 8270 D	PENTACHLOROPHENOL	PA
EPA 8270 D	PHENANTHRENE	PA
EPA 8270 D	PHORATE	PA
EPA 8270 D	PRONAMIDE (KERB)	PA
EPA 8270 D	SAFROLE	PA
EPA 8270 D	THIONAZIN (ZINOPHOS, DIETHYL-O-2-PYRAZINYL PHOSPHOROTHIONATE)	PA
EPA 8270 D - EXTENDED	1,2,3,4-TETRACHLOROBENZENE	PA
EPA 8270 D - EXTENDED	1,4-DIOXANE (P-DIOXANE /1,4-DIETHYLENEOXIDE)	PA
EPA 8270 D - EXTENDED	3+4-METHYLPHENOL (M+P CRESOL)	PA
EPA 8270 D - EXTENDED	ATRAZINE	PA
EPA 8270 D - EXTENDED	CAPROLACTAM	PA
EPA 8270 D - EXTENDED	DIBENZ(A,H) ACRIDINE	PA
EPA 8270 D - EXTENDED	N,N-DIMETHYLFORMAMIDE	PA
EPA 8270 D - EXTENDED	QUINOLINE	PA
EPA 8270 D SIM	ACENAPHTHENE	PA
EPA 8270 D SIM	ANTHRACENE	PA
EPA 8270 D SIM	BENZO(A)PYRENE	PA
EPA 8270 D SIM	BENZO(G,H,I)PERYLENE	PA
EPA 8270 D SIM	CHRYSENE	PA
EPA 8270 D SIM	FLUORANTHENE	PA
EPA 8270 D SIM	INDENO(1,2,3-CD) PYRENE	PA
EPA 8270 D SIM	PHENANTHRENE	PA
EPA 8270 D SIM - EXTENDED	1,4-DIOXANE (P-DIOXANE /1,4-DIETHYLENEOXIDE)	PA
EPA 8270 E	1,1'-BIPHENYL (BZ-0)	PA
EPA 8270 E	1,2,4-TRICHLOROBENZENE	PA
EPA 8270 E	1,2-DIPHENYLHYDRAZINE	PA

Scope of Accreditation

VELAP Certificate No.: 12574

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

Virginia Laboratory ID: 460182
Effective Date: July 15, 2023
Expiration Date: June 14, 2024

NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
EPA 8270 E	1,3,5-TRINITROBENZENE (1,3,5-TNB)	PA
EPA 8270 E	1,3-DINITROBENZENE (1,3-DNB)	PA
EPA 8270 E	1,4-DINITROBENZENE (1,4-DNB)	PA
EPA 8270 E	1,4-NAPHTHOQUINONE	PA
EPA 8270 E	1-METHYLNAPHTHALENE	PA
EPA 8270 E	2,3,4,6-TETRACHLOROPHENOL	PA
EPA 8270 E	2,4,6-TRICHLOROPHENOL	PA
EPA 8270 E	2,4-DIMETHYLPHENOL	PA
EPA 8270 E	2,4-DINITROTOLUENE (2,4-DNT)	PA
EPA 8270 E	2,6-DINITROTOLUENE (2,6-DNT)	PA
EPA 8270 E	2-CHLORONAPHTHALENE	PA
EPA 8270 E	2-METHYL-4,6-DINITROPHENOL (4,6-DINITRO-2-METHYLPHENOL)	PA
EPA 8270 E	2-METHYLPHENOL (O-CRESOL)	PA
EPA 8270 E	2-NITROANILINE	PA
EPA 8270 E	2-PICOLINE (2-METHYLPYRIDINE)	PA
EPA 8270 E	3,3'-DICHLOROBENZIDINE	PA
EPA 8270 E	3-METHYLCHOLANTHRENE	PA
EPA 8270 E	4-AMINOBIPHENYL	PA
EPA 8270 E	4-CHLORO-3-METHYLPHENOL	PA
EPA 8270 E	4-CHLOROPHENYL PHENYLETHER	PA
EPA 8270 E	4-NITROPHENOL	PA
EPA 8270 E	5-NITRO-O-TOLUIDINE	PA
EPA 8270 E	ACENAPHTHENE	PA
EPA 8270 E	ACETOPHENONE	PA
EPA 8270 E	ANTHRACENE	PA
EPA 8270 E	ATRAZINE	PA
EPA 8270 E	BENZIDINE	PA
EPA 8270 E	BENZO(A)PYRENE	PA
EPA 8270 E	BENZO(G,H,I)PERYLENE	PA
EPA 8270 E	BENZOIC ACID	PA
EPA 8270 E	BIS(2-CHLOROETHOXY)METHANE	PA
EPA 8270 E	BIS(2-ETHYLHEXYL) PHTHALATE (DI(2-ETHYLHEXYL)PHTHALATE), (DEHP)	PA
EPA 8270 E	CAPROLACTAM	PA
EPA 8270 E	1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	PA
EPA 8270 E	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	PA
EPA 8270 E	1,4-DIOXANE (P-DIOXANE /1,4-DIETHYLENEOXIDE)	PA
EPA 8270 E	1-CHLORONAPHTHALENE	PA
EPA 8270 E	1-NAPHTHYLAMINE	PA
EPA 8270 E	2,4,5-TRICHLOROPHENOL	PA
EPA 8270 E	2,4-DICHLOROPHENOL	PA
EPA 8270 E	2,4-DINITROPHENOL	PA
EPA 8270 E	2,6-DICHLOROPHENOL	PA
EPA 8270 E	2-ACETYLAMINOFLUORENE	PA
EPA 8270 E	2-CHLOROPHENOL	PA
EPA 8270 E	2-METHYLNAPHTHALENE	PA
EPA 8270 E	2-NAPHTHYLAMINE	PA
EPA 8270 E	2-NITROPHENOL	PA
EPA 8270 E	3+4-METHYLPHENOL (M+P CRESOL)	PA
EPA 8270 E	3,3'-DIMETHYLBENZIDINE	PA
EPA 8270 E	3-NITROANILINE	PA
EPA 8270 E	4-BROMOPHENYL PHENYL ETHER (BDE-3)	PA
EPA 8270 E	4-CHLOROANILINE	PA
EPA 8270 E	4-NITROANILINE	PA
EPA 8270 E	4-NITROQUINOLINE-1-OXIDE	PA
EPA 8270 E	7,12-DIMETHYLBENZ(A) ANTHRACENE	PA
EPA 8270 E	ACENAPHTHYLENE	PA
EPA 8270 E	ANILINE	PA
EPA 8270 E	ARAMITE	PA
EPA 8270 E	BENZALDEHYDE	PA
EPA 8270 E	BENZO(A)ANTHRACENE	PA
EPA 8270 E	BENZO(B)FLUORANTHENE	PA
EPA 8270 E	BENZO(K)FLUORANTHENE	PA
EPA 8270 E	BENZYL ALCOHOL	PA
EPA 8270 E	BIS(2-CHLOROETHYL) ETHER	PA
EPA 8270 E	BUTYL BENZYL PHTHALATE	PA
EPA 8270 E	CARBAZOLE	PA

Scope of Accreditation

VELAP Certificate No.: 12574

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

Virginia Laboratory ID: 460182
Effective Date: July 15, 2023
Expiration Date: June 14, 2024

NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
EPA 8270 E	CHLOROBENZILATE	PA
EPA 8270 E	DI-N-BUTYL PHTHALATE	PA
EPA 8270 E	DIALLATE	PA
EPA 8270 E	DIBENZO(A,H) ANTHRACENE	PA
EPA 8270 E	DIETHYL PHTHALATE	PA
EPA 8270 E	DIMETHYL PHTHALATE	PA
EPA 8270 E	DIPHENYLAMINE	PA
EPA 8270 E	ETHYL METHANESULFONATE	PA
EPA 8270 E	FLUORANTHENE	PA
EPA 8270 E	HEXACHLOROBENZENE	PA
EPA 8270 E	HEXACHLOROCYCLOPENTADIENE	PA
EPA 8270 E	HEXACHLOROPROPENE	PA
EPA 8270 E	ISODRIN	PA
EPA 8270 E	ISOSAFROLE	PA
EPA 8270 E	METHYL METHANESULFONATE	PA
EPA 8270 E	N-NITROSO-DI-N-BUTYLAMINE	PA
EPA 8270 E	N-NITROSODIETHYLAMINE	PA
EPA 8270 E	N-NITROSODIPHENYLAMINE	PA
EPA 8270 E	N-NITROSOMORPHOLINE	PA
EPA 8270 E	N-NITROSOPYRROLIDINE	PA
EPA 8270 E	NITROBENZENE	PA
EPA 8270 E	O-TOLUIDINE (2-METHYLANILINE)	PA
EPA 8270 E	PENTACHLOROBENZENE	PA
EPA 8270 E	PENTACHLOROPHENOL	PA
EPA 8270 E	PHENANTHRENE	PA
EPA 8270 E	PHORATE	PA
EPA 8270 E	PYRENE	PA
EPA 8270 E	SAFROLE	PA
EPA 8270 E	THIONAZIN (ZINOPHOS, DIETHYL-O-2-PYRAZINYL PHOSPHOROTHIONATE)	PA
EPA 8270 E - EXTENDED	4-DIMETHYL AMINOAZOBENZENE	PA
EPA 8270 E - EXTENDED	ALPHA-TERPINEOL	PA
EPA 8270 E - EXTENDED	INDENE	PA
EPA 8270 E - EXTENDED	TRIETHYLAMINE	PA
EPA 8270 E	CHRYSENE	PA
EPA 8270 E	DI-N-OCTYL PHTHALATE	PA
EPA 8270 E	DIBENZ(A, J) ACRIDINE	PA
EPA 8270 E	DIBENZOFURAN	PA
EPA 8270 E	DIMETHOATE	PA
EPA 8270 E	DINOSEB (2-SEC-BUTYL-4,6-DINITROPHENOL, DNBP)	PA
EPA 8270 E	DISULFOTON	PA
EPA 8270 E	FAMPHUR	PA
EPA 8270 E	FLUORENE	PA
EPA 8270 E	HEXACHLOROBUTADIENE (1,3-HEXACHLOROBUTADIENE)	PA
EPA 8270 E	HEXACHLOROETHANE	PA
EPA 8270 E	INDENO(1,2,3-CD) PYRENE	PA
EPA 8270 E	ISOPHORONE	PA
EPA 8270 E	KEPONE	PA
EPA 8270 E	METHYL PARATHION (PARATHION, METHYL)	PA
EPA 8270 E	N-NITROSODI-N-PROPYLAMINE	PA
EPA 8270 E	N-NITROSODIMETHYLAMINE	PA
EPA 8270 E	N-NITROSOMETHYLETHYLAMINE	PA
EPA 8270 E	N-NITROSOPIPERIDINE	PA
EPA 8270 E	NAPHTHALENE	PA
EPA 8270 E	O,O,O-TRIETHYL PHOSPHOROTHIOATE	PA
EPA 8270 E	PARATHION (PARATHION - ETHYL)	PA
EPA 8270 E	PENTACHLORONITROBENZENE	PA
EPA 8270 E	PHENACETIN	PA
EPA 8270 E	PHENOL	PA
EPA 8270 E	PRONAMIDE (KERB)	PA
EPA 8270 E	PYRIDINE	PA
EPA 8270 E	SULFOTEP (TETRAETHYL DITHIOPYROPHOSPHATE, TEDP)	PA
EPA 8270 E - EXTENDED	2,2'-OXYBIS(1-CHLOROPROPANE)	PA
EPA 8270 E - EXTENDED	6-METHYLCHRYSENE	PA
EPA 8270 E - EXTENDED	DIBENZ(A,H) ACRIDINE	PA
EPA 8270 E - EXTENDED	QUINOLINE	PA
EPA 8270 E SIM	1,4-DIOXANE (P-DIOXANE /1,4-DIETHYLENEOXIDE)	PA

Scope of Accreditation

VELAP Certificate No.: 12574

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

Virginia Laboratory ID: 460182
Effective Date: July 15, 2023
Expiration Date: June 14, 2024

NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
EPA 8270 E SIM	1-METHYLNAPHTHALENE	PA
EPA 8270 E SIM	ACENAPHTHENE	PA
EPA 8270 E SIM	ANTHRACENE	PA
EPA 8270 E SIM	BENZO(A)PYRENE	PA
EPA 8270 E SIM	BENZO(G,H,I)PERYLENE	PA
EPA 8270 E SIM	CHRYSENE	PA
EPA 8270 E SIM	FLUORANTHENE	PA
EPA 8270 E SIM	INDENO(1,2,3-CD) PYRENE	PA
EPA 8270 E SIM	PHENANTHRENE	PA
EPA 8290 A	1,2,3,4,6,7,8,9-OCTACHLORODIBENZO-P-DIOXIN (OCDD)	PA
EPA 8290 A	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-P-DIOXIN (1,2,3,4,6,7,8-HPCDD)	PA
EPA 8290 A	1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN (1,2,3,4,7,8,9-HPCDF)	PA
EPA 8290 A	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN (1,2,3,4,7,8-HXCDF)	PA
EPA 8290 A	1,2,3,6,7,8-HEXACHLORODIBENZOFURAN (1,2,3,6,7,8-HXCDF)	PA
EPA 8290 A	1,2,3,7,8,9-HEXACHLORODIBENZOFURAN (1,2,3,7,8,9-HXCDF)	PA
EPA 8290 A	1,2,3,7,8-PENTACHLORODIBENZOFURAN (1,2,3,7,8-PECDF)	PA
EPA 8290 A	2,3,4,7,8-PENTACHLORODIBENZOFURAN	PA
EPA 8290 A	2,3,7,8-TETRACHLORODIBENZOFURAN (2,3,7,8-TCDF)	PA
EPA 8290 A - EXTENDED	TOTAL HEPTACHLORODIBENZOFURAN (HPCDF, TOTAL)	PA
EPA 8290 A - EXTENDED	TOTAL HEXACHLORODIBENZOFURAN (HXCDF, TOTAL)	PA
EPA 8290 A - EXTENDED	TOTAL PENTACHLORODIBENZOFURAN (PECDF, TOTAL)	PA
EPA 8290 A - EXTENDED	TOTAL TETRACHLORODIBENZOFURAN (TCDF, TOTAL)	PA
EPA 8315 A	FORMALDEHYDE	PA
EPA 8330 B	1,3-DINITROBENZENE (1,3-DNB)	PA
EPA 8330 B	2,4-DINITROTOLUENE (2,4-DNT)	PA
EPA 8330 B	2-AMINO-4,6-DINITROTOLUENE (2-AM-DNT)	PA
EPA 8330 B	3,5-DINITROANILINE	PA
EPA 8270 E SIM	2-METHYLNAPHTHALENE	PA
EPA 8270 E SIM	ACENAPHTHYLENE	PA
EPA 8270 E SIM	BENZO(A)ANTHRACENE	PA
EPA 8270 E SIM	BENZO(B)FLUORANTHENE	PA
EPA 8270 E SIM	BENZO(K)FLUORANTHENE	PA
EPA 8270 E SIM	DIBENZO(A,H) ANTHRACENE	PA
EPA 8270 E SIM	FLUORENE	PA
EPA 8270 E SIM	NAPHTHALENE	PA
EPA 8270 E SIM	PYRENE	PA
EPA 8290 A	1,2,3,4,6,7,8,9-OCTACHLORODIBENZOFURAN (OCDF)	PA
EPA 8290 A	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN (1,2,3,4,6,7,8-HPCDF)	PA
EPA 8290 A	1,2,3,4,7,8-HEXACHLORODIBENZO-P-DIOXIN (1,2,3,4,7,8-HXCDD)	PA
EPA 8290 A	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN(1,2,3,6,7,8-HXCDD)	PA
EPA 8290 A	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN (1,2,3,7,8,9-HXCDD)	PA
EPA 8290 A	1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN (1,2,3,7,8-PECDD)	PA
EPA 8290 A	2,3,4,6,7,8-HEXACHLORODIBENZOFURAN (2,3,4,6,7,8-HXCDF)	PA
EPA 8290 A	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN (2,3,7,8-TCDD)	PA
EPA 8290 A - EXTENDED	TOTAL HEPTACHLORODIBENZO-P-DIOXIN (HPCDD, TOTAL)	PA
EPA 8290 A - EXTENDED	TOTAL HEXACHLORODIBENZO-P-DIOXIN (HXCDD, TOTAL)	PA
EPA 8290 A - EXTENDED	TOTAL PENTACHLORODIBENZO-P-DIOXIN (PECDD, TOTAL)	PA
EPA 8290 A - EXTENDED	TOTAL TETRACHLORODIBENZO-P-DIOXIN (TCDD, TOTAL)	PA
EPA 8315 A	ACETALDEHYDE	PA
EPA 8330 B	1,3,5-TRINITROBENZENE (1,3,5-TNB)	PA
EPA 8330 B	2,4,6-TRINITROTOLUENE (2,4,6-TNT)	PA
EPA 8330 B	2,6-DINITROTOLUENE (2,6-DNT)	PA
EPA 8330 B	2-NITROTOLUENE	PA
EPA 8330 B	3-NITROTOLUENE	PA



Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services



Scope of Accreditation

VELAP Certificate No.: 12574

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

Virginia Laboratory ID: 460182
Effective Date: July 15, 2023
Expiration Date: June 14, 2024

NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
EPA 8330 B	4-AMINO-2,6-DINITROTOLUENE (4-AM-DNT)	PA
EPA 8330 B	METHYL-2,4,6-TRINITROPHENYLNITRAMINE (TETRYL)	PA
EPA 8330 B	NITROGLYCERIN	PA
EPA 8330 B	PENTAERYTHRITOLTETRANITRATE (PETN)	PA
EPA 9012 B	CYANIDE, TOTAL	PA
EPA 9050 A	CONDUCTIVITY	PA
EPA 9056 A	CHLORIDE	PA
EPA 9056 A	NITRATE AS N	PA
EPA 9056 A	SULFATE	PA
EPA 9066	TOTAL PHENOLICS	PA
OIA-1677-09	CYANIDE, FREE	PA
RSK-175	ETHENE (ETHYLENE)	PA
SM 2120 B-2011	COLOR	PA
SM 2310 B-2011	ACIDITY, AS CACO3	PA
SM 2340 C-2011	TOTAL HARDNESS AS CACO3	PA
SM 2540 B-2015	RESIDUE-TOTAL (TS)	PA
SM 2540 D-2015	RESIDUE-NONFILTERABLE (TSS)	PA
SM 3500-CR B-2011	CHROMIUM VI	PA
SM 4500-F^- B-2011	FLUORIDE	PA
SM 4500-NH3 B-2011	AMMONIA AS N	PA
SM 4500-NH3 D-2011	AMMONIA AS N	PA
SM 4500-P E-2011	ORTHOPHOSPHATE AS P	PA
SM 4500-$S2^-$ D-2011	SULFIDE	PA
SM 4500-SIO2 C-2011	SILICA AS SIO2	PA
SM 5210 B-2016	BIOCHEMICAL OXYGEN DEMAND (BOD)	PA
SM 5310 C-2014	TOTAL ORGANIC CARBON (TOC)	PA
EPA 8330 B	4-NITROTOLUENE	PA
EPA 8330 B	NITROBENZENE	PA
EPA 8330 B	OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE (HMX)	PA
EPA 8330 B	RDX (HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE)	PA
EPA 9040 C	PH	PA
EPA 9056 A	BROMIDE	PA
EPA 9056 A	FLUORIDE	PA
EPA 9056 A	NITRITE (AS N)	PA
EPA 9060 A	TOTAL ORGANIC CARBON (TOC)	PA
OIA-1677-09	CYANIDE, AVAILABLE	PA
RSK-175	ETHANE	PA
RSK-175	METHANE	PA
SM 2130 B-2011	TURBIDITY	PA
SM 2320 B-2011	ALKALINITY AS CACO3	PA
SM 2510 B-2011	CONDUCTIVITY	PA
SM 2540 C-2015	RESIDUE-FILTERABLE (TDS)	PA
SM 2540 F-2015	RESIDUE-SETTLEABLE	PA
SM 4500-CL^- C-2011	CHLORIDE	PA
SM 4500-F^- C-2011	FLUORIDE	PA
SM 4500-NH3 C-2011	AMMONIA AS N	PA
SM 4500-P B 5-2011	PREP: TOTAL PHOSPHORUS	PA
SM 4500-P F-2011	PHOSPHORUS, TOTAL	PA
SM 4500-$S2^-$ F-2011	SULFIDE	PA
SM 4500-$SO3^-$ B-2011	SULFITE-SO3	PA
SM 5210 B-2016	CARBONACEOUS BOD (CBOD)	PA
SM 5540 C-2011	SURFACTANTS - MBAS	PA

SOLID AND CHEMICAL MATERIALS

METHOD	ANALYTE	PRIMARY
EPA 1010 B	FLASHPOINT	PA
EPA 1312	PREP: SYNTHETIC PRECIPITATION LEACHING PROCEDURE (SPLP)	PA
EPA 1613 B	1,2,3,4,6,7,8,9-OCTACHLORODIBENZOFURAN (OCDF)	PA
EPA 1613 B	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN (1,2,3,4,6,7,8-HPCDF)	PA
EPA 1311	PREP: TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP)	PA
EPA 1613 B	1,2,3,4,6,7,8,9-OCTACHLORODIBENZO-P-DIOXIN (OCDD)	PA
EPA 1613 B	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-P-DIOXIN (1,2,3,4,6,7,8-HPCDD)	PA
EPA 1613 B	1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN (1,2,3,4,7,8,9-HPCDF)	PA



Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services



Scope of Accreditation

VELAP Certificate No.: 12574

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

Virginia Laboratory ID: 460182
Effective Date: July 15, 2023
Expiration Date: June 14, 2024

SOLID AND CHEMICAL MATERIALS

METHOD	ANALYTE	PRIMARY
EPA 1613 B	1,2,3,4,7,8-HEXACHLORODIBENZO-P-DIOXIN (1,2,3,4,7,8-HXCDD)	PA
EPA 1613 B	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN(1,2,3,6,7,8-HXCDD)	PA
EPA 1613 B	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN (1,2,3,7,8,9-HXCDD)	PA
EPA 1613 B	1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN (1,2,3,7,8-PECDD)	PA
EPA 1613 B	2,3,4,6,7,8-HEXACHLORODIBENZOFURAN (2,3,4,6,7,8-HXCDF)	PA
EPA 1613 B	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN (2,3,7,8-TCDD)	PA
EPA 1668 A	2,2',3,3',4,4',5,5',6-NONACHLOROBIPHENYL (BZ-206)	PA
EPA 1668 A	2,2',3,3',4,4',5,6'-OCTACHLOROBIPHENYL (BZ-196)	PA
EPA 1668 A	2,2',3,3',4,4',5,6-OCTACHLOROBIPHENYL BZ-195)	PA
EPA 1668 A	2,2',3,3',4,4',6,6'-OCTACHLOROBIPHENYL (BZ-197)	PA
EPA 1668 A	2,2',3,3',4,4'-HEXACHLOROBIPHENYL (BZ-128)	PA
EPA 1668 A	2,2',3,3',4,5',6,6'-OCTACHLOROBIPHENYL (BZ-201)	PA
EPA 1668 A	2,2',3,3',4,5'-HEXACHLOROBIPHENYL (BZ-130)	PA
EPA 1668 A	2,2',3,3',4,5,5',6,6'-NONACHLOROBIPHENYL (BZ-208)	PA
EPA 1668 A	2,2',3,3',4,5,5'-HEPTACHLOROBIPHENYL (BZ-172)	PA
EPA 1668 A	2,2',3,3',4,5,6,6'-OCTACHLOROBIPHENYL (BZ-200)	PA
EPA 1668 A	2,2',3,3',4,5-HEXACHLOROBIPHENYL (BZ-129)	PA
EPA 1668 A	2,2',3,3',4,6,6'-HEPTACHLOROBIPHENYL (BZ-176)	PA
EPA 1668 A	2,2',3,3',4-PENTACHLOROBIPHENYL (BZ-82)	PA
EPA 1668 A	2,2',3,3',5,5',6-HEPTACHLOROBIPHENYL (BZ-178)	PA
EPA 1668 A	2,2',3,3',5,6'-HEXACHLOROBIPHENYL (BZ-135)	PA
EPA 1668 A	2,2',3,3',5,6-HEXACHLOROBIPHENYL (BZ-134)	PA
EPA 1668 A	2,2',3,3',6,6'-HEXACHLOROBIPHENYL (BZ-136)	PA
EPA 1668 A	2,2',3,3'-TETRACHLOROBIPHENYL (BZ-40)	PA
EPA 1668 A	2,2',3,4',5'-PENTACHLOROBIPHENYL (BZ-97)	PA
EPA 1613 B	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN (1,2,3,4,7,8-HXCDF)	PA
EPA 1613 B	1,2,3,6,7,8-HEXACHLORODIBENZOFURAN (1,2,3,6,7,8-HXCDF)	PA
EPA 1613 B	1,2,3,7,8,9-HEXACHLORODIBENZOFURAN (1,2,3,7,8,9-HXCDF)	PA
EPA 1613 B	1,2,3,7,8-PENTACHLORODIBENZOFURAN (1,2,3,7,8-PECDF)	PA
EPA 1613 B	2,3,4,7,8-PENTACHLORODIBENZOFURAN	PA
EPA 1613 B	2,3,7,8-TETRACHLORODIBENZOFURAN (2,3,7,8-TCDF)	PA
EPA 1668 A	2,2',3,3',4,4',5,5'-OCTACHLOROBIPHENYL (BZ-194)	PA
EPA 1668 A	2,2',3,3',4,4',5,6,6'-NONACHLOROBIPHENYL (BZ-207)	PA
EPA 1668 A	2,2',3,3',4,4',5-HEPTACHLOROBIPHENYL (BZ-170)	PA
EPA 1668 A	2,2',3,3',4,4',6-HEPTACHLOROBIPHENYL (BZ-171)	PA
EPA 1668 A	2,2',3,3',4,5',6'-HEPTACHLOROBIPHENYL (BZ-177)	PA
EPA 1668 A	2,2',3,3',4,5',6-HEPTACHLOROBIPHENYL (BZ-175)	PA
EPA 1668 A	2,2',3,3',4,5,5',6'-OCTACHLOROBIPHENYL (BZ-199)	PA
EPA 1668 A	2,2',3,3',4,5,5',6-OCTACHLOROBIPHENYL (BZ-198)	PA
EPA 1668 A	2,2',3,3',4,5,6'-HEPTACHLOROBIPHENYL (BZ-174)	PA
EPA 1668 A	2,2',3,3',4,5,6-HEPTACHLOROBIPHENYL (BZ-173)	PA
EPA 1668 A	2,2',3,3',4,6'-HEXACHLOROBIPHENYL (BZ-132)	PA
EPA 1668 A	2,2',3,3',4,6-HEXACHLOROBIPHENYL (BZ-131)	PA
EPA 1668 A	2,2',3,3',5,5',6,6'-OCTACHLOROBIPHENYL (BZ-202)	PA
EPA 1668 A	2,2',3,3',5,5'-HEXACHLOROBIPHENYL (BZ-133)	PA
EPA 1668 A	2,2',3,3',5,6,6'-HEPTACHLOROBIPHENYL (BZ-179)	PA
EPA 1668 A	2,2',3,3',5-PENTACHLOROBIPHENYL (BZ-83)	PA
EPA 1668 A	2,2',3,3',6-PENTACHLOROBIPHENYL (BZ-84)	PA
EPA 1668 A	2,2',3,4',5',6-HEXACHLOROBIPHENYL (BZ-149)	PA
EPA 1668 A	2,2',3,4',5,5',6-HEPTACHLOROBIPHENYL (BZ-187)	PA

Scope of Accreditation

VELAP Certificate No.: 12574

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

Virginia Laboratory ID: 460182
Effective Date: July 15, 2023
Expiration Date: June 14, 2024

SOLID AND CHEMICAL MATERIALS

METHOD	ANALYTE	PRIMARY
EPA 1668 A	2,2',3,4',5,5'-HEXACHLOROBIPHENYL (BZ-146)	PA
EPA 1668 A	2,2',3,4',5,6,6'-HEPTACHLOROBIPHENYL (BZ-188)	PA
EPA 1668 A	2,2',3,4',5-PENTACHLOROBIPHENYL (BZ-90)	PA
EPA 1668 A	2,2',3,4',6,6'-HEXACHLOROBIPHENYL (BZ-150)	PA
EPA 1668 A	2,2',3,4'-TETRACHLOROBIPHENYL (BZ-42)	PA
EPA 1668 A	2,2',3,4,4',5'-HEXACHLOROBIPHENYL (BZ-138)	PA
EPA 1668 A	2,2',3,4,4',5,5'-HEPTACHLOROBIPHENYL (BZ-180)	PA
EPA 1668 A	2,2',3,4,4',5,6,6'-OCTACHLOROBIPHENYL (BZ-204)	PA
EPA 1668 A	2,2',3,4,4',5-HEXACHLOROBIPHENYL (BZ-137)	PA
EPA 1668 A	2,2',3,4,4',6,6'-HEPTACHLOROBIPHENYL (BZ-184)	PA
EPA 1668 A	2,2',3,4,4'-PENTACHLOROBIPHENYL (BZ-85)	PA
EPA 1668 A	2,2',3,4,5'-PENTACHLOROBIPHENYL (BZ-87)	PA
EPA 1668 A	2,2',3,4,5,5'-HEXACHLOROBIPHENYL (BZ-141)	PA
EPA 1668 A	2,2',3,4,5,6,6'-HEPTACHLOROBIPHENYL (BZ-186)	PA
EPA 1668 A	2,2',3,4,5-PENTACHLOROBIPHENYL (BZ-86)	PA
EPA 1668 A	2,2',3,4,6,6'-HEXACHLOROBIPHENYL (BZ-145)	PA
EPA 1668 A	2,2',3,4-TETRACHLOROBIPHENYL (BZ-41)	PA
EPA 1668 A	2,2',3,5'-TETRACHLOROBIPHENYL (BZ-44)	PA
EPA 1668 A	2,2',3,5,5'-PENTACHLOROBIPHENYL (BZ-92)	PA
EPA 1668 A	2,2',3,5,6,6'-HEXACHLOROBIPHENYL (BZ-152)	PA
EPA 1668 A	2,2',3,5-TETRACHLOROBIPHENYL (BZ-43)	PA
EPA 1668 A	2,2',3,6,6'-PENTACHLOROBIPHENYL (BZ-96)	PA
EPA 1668 A	2,2',3-TRICHLOROBIPHENYL (BZ-16)	PA
EPA 1668 A	2,2',4,4',5,6'-HEXACHLOROBIPHENYL (BZ-154)	PA
EPA 1668 A	2,2',4,4',6,6'-HEXACHLOROBIPHENYL (BZ-155)	PA
EPA 1668 A	2,2',3,4',5,6'-HEXACHLOROBIPHENYL (BZ-148)	PA
EPA 1668 A	2,2',3,4',5,6-HEXACHLOROBIPHENYL (BZ-147)	PA
EPA 1668 A	2,2',3,4',6'-PENTACHLOROBIPHENYL (BZ-98)	PA
EPA 1668 A	2,2',3,4',6-PENTACHLOROBIPHENYL (BZ-91)	PA
EPA 1668 A	2,2',3,4,4',5',6-HEPTACHLOROBIPHENYL (BZ-183)	PA
EPA 1668 A	2,2',3,4,4',5,5',6-OCTACHLOROBIPHENYL (BZ-203)	PA
EPA 1668 A	2,2',3,4,4',5,6'-HEPTACHLOROBIPHENYL (BZ-182)	PA
EPA 1668 A	2,2',3,4,4',5,6-HEPTACHLOROBIPHENYL (BZ-181)	PA
EPA 1668 A	2,2',3,4,4',6'-HEXACHLOROBIPHENYL (BZ-140)	PA
EPA 1668 A	2,2',3,4,4',6-HEXACHLOROBIPHENYL (BZ-139)	PA
EPA 1668 A	2,2',3,4,5',6-HEXACHLOROBIPHENYL (BZ-144)	PA
EPA 1668 A	2,2',3,4,5,5',6-HEPTACHLOROBIPHENYL (BZ-185)	PA
EPA 1668 A	2,2',3,4,5,6'-HEXACHLOROBIPHENYL (BZ-143)	PA
EPA 1668 A	2,2',3,4,5,6-HEXACHLOROBIPHENYL (BZ-142)	PA
EPA 1668 A	2,2',3,4,6'-PENTACHLOROBIPHENYL (BZ-89)	PA
EPA 1668 A	2,2',3,4,6-PENTACHLOROBIPHENYL (BZ-88)	PA
EPA 1668 A	2,2',3,5',6-PENTACHLOROBIPHENYL (BZ-95)	PA
EPA 1668 A	2,2',3,5,5',6-HEXACHLOROBIPHENYL (BZ-151)	PA
EPA 1668 A	2,2',3,5,6'-PENTACHLOROBIPHENYL (BZ-94)	PA
EPA 1668 A	2,2',3,5,6-PENTACHLOROBIPHENYL (BZ-93)	PA
EPA 1668 A	2,2',3,6'-TETRACHLOROBIPHENYL (BZ-46)	PA
EPA 1668 A	2,2',3,6-TETRACHLOROBIPHENYL (BZ-45)	PA
EPA 1668 A	2,2',4,4',5,5'-HEXACHLOROBIPHENYL (BZ-153)	PA
EPA 1668 A	2,2',4,4',5-PENTACHLOROBIPHENYL (BZ-99)	PA
EPA 1668 A	2,2',4,4',6-PENTACHLOROBIPHENYL (BZ-100)	PA



Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services



Scope of Accreditation

VELAP Certificate No.: 12574

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

Virginia Laboratory ID: 460182
Effective Date: July 15, 2023
Expiration Date: June 14, 2024

SOLID AND CHEMICAL MATERIALS

METHOD	ANALYTE	PRIMARY
EPA 1668 A	2,2',4,4'-TETRACHLOROBIPHENYL (BZ-47)	PA
EPA 1668 A	2,2',4,5'-TETRACHLOROBIPHENYL (BZ-49)	PA
EPA 1668 A	2,2',4,5,6'-PENTACHLOROBIPHENYL (BZ-102)	PA
EPA 1668 A	2,2',4,6'-TETRACHLOROBIPHENYL (BZ-51)	PA
EPA 1668 A	2,2',4,6-TETRACHLOROBIPHENYL (BZ-50)	PA
EPA 1668 A	2,2',5,5'-TETRACHLOROBIPHENYL (BZ-52)	PA
EPA 1668 A	2,2',5-TRICHLOROBIPHENYL (BZ-18)	PA
EPA 1668 A	2,2',6-TRICHLOROBIPHENYL (BZ-19)	PA
EPA 1668 A	2,3',4',5',6-PENTACHLOROBIPHENYL (BZ-125)	PA
EPA 1668 A	2,3',4',5,5'-PENTACHLOROBIPHENYL (BZ-124)	PA
EPA 1668 A	2,3',4',6-TETRACHLOROBIPHENYL (BZ-71)	PA
EPA 1668 A	2,3',4,4',5',6-HEXACHLOROBIPHENYL (BZ-168)	PA
EPA 1668 A	2,3',4,4',5,5'-HEXACHLOROBIPHENYL (BZ-167)	PA
EPA 1668 A	2,3',4,4',6-PENTACHLOROBIPHENYL (BZ-119)	PA
EPA 1668 A	2,3',4,5',6-PENTACHLOROBIPHENYL (BZ-121)	PA
EPA 1668 A	2,3',4,5,5'-PENTACHLOROBIPHENYL (BZ-120)	PA
EPA 1668 A	2,3',4,6-TETRACHLOROBIPHENYL (BZ-69)	PA
EPA 1668 A	2,3',5',6-TETRACHLOROBIPHENYL (BZ-73)	PA
EPA 1668 A	2,3',5,5'-TETRACHLOROBIPHENYL (BZ-72)	PA
EPA 1668 A	2,3',6-TRICHLOROBIPHENYL (BZ-27)	PA
EPA 1668 A	2,3,3',4',5',6-HEXACHLOROBIPHENYL (BZ-164)	PA
EPA 1668 A	2,3,3',4',5,5',6-HEPTACHLOROBIPHENYL (BZ-193)	PA
EPA 1668 A	2,3,3',4',5,6-HEXACHLOROBIPHENYL (BZ-163)	PA
EPA 1668 A	2,3,3',4',6-PENTACHLOROBIPHENYL (BZ-110)	PA
EPA 1668 A	2,3,3',4,4',5',6-HEPTACHLOROBIPHENYL (BZ-191)	PA
EPA 1668 A	2,2',4,5',6-PENTACHLOROBIPHENYL (BZ-103)	PA
EPA 1668 A	2,2',4,5,5'-PENTACHLOROBIPHENYL (BZ-101)	PA
EPA 1668 A	2,2',4,5-TETRACHLOROBIPHENYL (BZ-48)	PA
EPA 1668 A	2,2',4,6,6'-PENTACHLOROBIPHENYL (BZ-104)	PA
EPA 1668 A	2,2',4-TRICHLOROBIPHENYL (BZ-17)	PA
EPA 1668 A	2,2',5,6'-TETRACHLOROBIPHENYL (BZ-53)	PA
EPA 1668 A	2,2',6,6'-TETRACHLOROBIPHENYL (BZ-54)	PA
EPA 1668 A	2,2'-DICHLOROBIPHENYL (BZ-4)	PA
EPA 1668 A	2,3',4',5'-TETRACHLOROBIPHENYL (BZ-76)	PA
EPA 1668 A	2,3',4',5-TETRACHLOROBIPHENYL (BZ-70)	PA
EPA 1668 A	2,3',4'-TRICHLOROBIPHENYL (BZ-33)	PA
EPA 1668 A	2,3',4,4',5'-PENTACHLOROBIPHENYL (BZ-123)	PA
EPA 1668 A	2,3',4,4',5-PENTACHLOROBIPHENYL (BZ-118)	PA
EPA 1668 A	2,3',4,4'-TETRACHLOROBIPHENYL (BZ-66)	PA
EPA 1668 A	2,3',4,5'-TETRACHLOROBIPHENYL (BZ-68)	PA
EPA 1668 A	2,3',4,5-TETRACHLOROBIPHENYL (BZ-67)	PA
EPA 1668 A	2,3',4-TRICHLOROBIPHENYL (BZ-25)	PA
EPA 1668 A	2,3',5'-TRICHLOROBIPHENYL (BZ-34)	PA
EPA 1668 A	2,3',5-TRICHLOROBIPHENYL (BZ-26)	PA
EPA 1668 A	2,3'-DICHLOROBIPHENYL (BZ-6)	PA
EPA 1668 A	2,3,3',4',5'-PENTACHLOROBIPHENYL (BZ-122)	PA
EPA 1668 A	2,3,3',4',5,5'-HEXACHLOROBIPHENYL (BZ-162)	PA
EPA 1668 A	2,3,3',4',5-PENTACHLOROBIPHENYL (BZ-107)	PA
EPA 1668 A	2,3,3',4'-TETRACHLOROBIPHENYL (BZ-56)	PA
EPA 1668 A	2,3,3',4,4',5'-HEXACHLOROBIPHENYL (BZ-157)	PA



Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services



Scope of Accreditation

VELAP Certificate No.: 12574

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

Virginia Laboratory ID: 460182
Effective Date: July 15, 2023
Expiration Date: June 14, 2024

SOLID AND CHEMICAL MATERIALS

METHOD	ANALYTE	PRIMARY
EPA 1668 A	2,3,3',4,4',5,5',6-OCTACHLOROBIPHENYL (BZ-205)	PA
EPA 1668 A	2,3,3',4,4',5,6-HEPTACHLOROBIPHENYL (BZ-190)	PA
EPA 1668 A	2,3,3',4,4',6-HEXACHLOROBIPHENYL (BZ-158)	PA
EPA 1668 A	2,3,3',4,5',6-HEXACHLOROBIPHENYL (BZ-161)	PA
EPA 1668 A	2,3,3',4,5,5',6-HEPTACHLOROBIPHENYL (BZ-192)	PA
EPA 1668 A	2,3,3',4,5,6-HEXACHLOROBIPHENYL (BZ-160)	PA
EPA 1668 A	2,3,3',4,6-PENTACHLOROBIPHENYL (BZ-109)	PA
EPA 1668 A	2,3,3',5',6-PENTACHLOROBIPHENYL (BZ-113)	PA
EPA 1668 A	2,3,3',5,5',6-HEXACHLOROBIPHENYL (BZ-165)	PA
EPA 1668 A	2,3,3',5,6-PENTACHLOROBIPHENYL (BZ-112)	PA
EPA 1668 A	2,3,3',6-TETRACHLOROBIPHENYL (BZ-59)	PA
EPA 1668 A	2,3,4',5,6-PENTACHLOROBIPHENYL (BZ-117)	PA
EPA 1668 A	2,3,4',6-TETRACHLOROBIPHENYL (BZ-64)	PA
EPA 1668 A	2,3,4,4',5,6-HEXACHLOROBIPHENYL (BZ-166)	PA
EPA 1668 A	2,3,4,4',6-PENTACHLOROBIPHENYL (BZ-115)	PA
EPA 1668 A	2,3,4,5,6-PENTACHLOROBIPHENYL (BZ-116)	PA
EPA 1668 A	2,3,4,6-TETRACHLOROBIPHENYL (BZ-62)	PA
EPA 1668 A	2,3,5,6-TETRACHLOROBIPHENYL (BZ-65)	PA
EPA 1668 A	2,3,6-TRICHLOROBIPHENYL (BZ-24)	PA
EPA 1668 A	2,4',5-TRICHLOROBIPHENYL (BZ-31)	PA
EPA 1668 A	2,4'-DICHLOROBIPHENYL (BZ-8)	PA
EPA 1668 A	2,4,4',6-TETRACHLOROBIPHENYL (BZ-75)	PA
EPA 1668 A	2,4,5-TRICHLOROBIPHENYL (BZ-29)	PA
EPA 1668 A	2,4-DICHLOROBIPHENYL (BZ-7)	PA
EPA 1668 A	2,6-DICHLOROBIPHENYL (BZ-10)	PA
EPA 1668 A	3,3',4,4',5,5'-HEXACHLOROBIPHENYL (BZ-169)	PA
EPA 1668 A	3,3',4,4'-TETRACHLOROBIPHENYL (BZ-77)	PA
EPA 1668 A	2,3,3',4,4',5,5'-HEPTACHLOROBIPHENYL (BZ-189)	PA
EPA 1668 A	2,3,3',4,4',5-HEXACHLOROBIPHENYL (BZ-156)	PA
EPA 1668 A	2,3,3',4,4'-PENTACHLOROBIPHENYL (BZ-105)	PA
EPA 1668 A	2,3,3',4,5'-PENTACHLOROBIPHENYL (BZ-108)	PA
EPA 1668 A	2,3,3',4,5,5'-HEXACHLOROBIPHENYL (BZ-159)	PA
EPA 1668 A	2,3,3',4,5-PENTACHLOROBIPHENYL (BZ-106)	PA
EPA 1668 A	2,3,3',4-TETRACHLOROBIPHENYL (BZ-55)	PA
EPA 1668 A	2,3,3',5'-TETRACHLOROBIPHENYL (BZ-58)	PA
EPA 1668 A	2,3,3',5,5'-PENTACHLOROBIPHENYL (BZ-111)	PA
EPA 1668 A	2,3,3',5-TETRACHLOROBIPHENYL (BZ-57)	PA
EPA 1668 A	2,3,3'-TRICHLOROBIPHENYL (BZ-20)	PA
EPA 1668 A	2,3,4',5-TETRACHLOROBIPHENYL (BZ-63)	PA
EPA 1668 A	2,3,4'-TRICHLOROBIPHENYL (BZ-22)	PA
EPA 1668 A	2,3,4,4',5-PENTACHLOROBIPHENYL (BZ-114)	PA
EPA 1668 A	2,3,4,4'-TETRACHLOROBIPHENYL (BZ-60)	PA
EPA 1668 A	2,3,4,5-TETRACHLOROBIPHENYL (BZ-61)	PA
EPA 1668 A	2,3,4-TRICHLOROBIPHENYL (BZ-21)	PA
EPA 1668 A	2,3,5-TRICHLOROBIPHENYL (BZ-23)	PA
EPA 1668 A	2,3-DICHLOROBIPHENYL (BZ-5)	PA
EPA 1668 A	2,4',6-TRICHLOROBIPHENYL (BZ-32)	PA
EPA 1668 A	2,4,4',5-TETRACHLOROBIPHENYL (BZ-74)	PA
EPA 1668 A	2,4,4'-TRICHLOROBIPHENYL (BZ-28)	PA
EPA 1668 A	2,4,6-TRICHLOROBIPHENYL (BZ-30)	PA
EPA 1668 A	2,5-DICHLOROBIPHENYL (BZ-9)	PA
EPA 1668 A	2-CHLOROBIPHENYL (BZ-1)	PA
EPA 1668 A	3,3',4,4',5-PENTACHLOROBIPHENYL (BZ-126)	PA



Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services



Scope of Accreditation

VELAP Certificate No.: 12574

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

Virginia Laboratory ID: 460182
Effective Date: July 15, 2023
Expiration Date: June 14, 2024

SOLID AND CHEMICAL MATERIALS

METHOD	ANALYTE	PRIMARY
EPA 1668 A	3,3',4,5'-TETRACHLOROBIPHENYL (BZ-79)	PA
EPA 1668 A	3,3',4,5-TETRACHLOROBIPHENYL (BZ-78)	PA
EPA 1668 A	3,3',5,5'-TETRACHLOROBIPHENYL (BZ-80)	PA
EPA 1668 A	3,3'-DICHLOROBIPHENYL (BZ-11)	PA
EPA 1668 A	3,4'-DICHLOROBIPHENYL (BZ-13)	PA
EPA 1668 A	3,4,4'-TRICHLOROBIPHENYL (BZ-37)	PA
EPA 1668 A	3,4-DICHLOROBIPHENYL (BZ-12)	PA
EPA 1668 A	3-CHLOROBIPHENYL (BZ-2)	PA
EPA 1668 A	4-CHLOROBIPHENYL (BZ-3)	PA
EPA 300.0 REV 2.1	CHLORIDE	PA
EPA 300.0 REV 2.1	NITRATE (AS N)	PA
EPA 300.0 REV 2.1	SULFATE	PA
EPA 3546	PREP: MICROWAVE EXTRACTION	PA
EPA 3620 C	PREP: FLORISIL CLEANUP	PA
EPA 3640 A	PREP: GEL PERMEATION CLEANUP	PA
EPA 3665 A	SULFURIC ACID/PERMANGANATE CLEAN-UP	PA
EPA 5035 A	PREP: CLOSED-SYSTEM PURGE AND TRAP AND EXTRACTION	PA
EPA 6010 D	ANTIMONY	PA
EPA 6010 D	BARIUM	PA
EPA 6010 D	BORON	PA
EPA 6010 D	CALCIUM	PA
EPA 6010 D	COBALT	PA
EPA 6010 D	IRON	PA
EPA 6010 D	LITHIUM	PA
EPA 6010 D	MANGANESE	PA
EPA 6010 D	NICKEL	PA
EPA 6010 D	SELENIUM	PA
EPA 6010 D	SILVER	PA
EPA 6010 D	STRONTIUM	PA
EPA 6010 D	TIN	PA
EPA 6010 D	VANADIUM	PA
EPA 6010 D - EXTENDED	SULFUR	PA
EPA 6010 D - EXTENDED	ZIRCONIUM	PA
EPA 6020 B	ANTIMONY	PA
EPA 6020 B	BARIUM	PA

METHOD	ANALYTE	PRIMARY
EPA 1668 A	3,3',4,5,5'-PENTACHLOROBIPHENYL (BZ-127)	PA
EPA 1668 A	3,3',4-TRICHLOROBIPHENYL (BZ-35)	PA
EPA 1668 A	3,3',5-TRICHLOROBIPHENYL (BZ-36)	PA
EPA 1668 A	3,4',5-TRICHLOROBIPHENYL (BZ-39)	PA
EPA 1668 A	3,4,4',5-TETRACHLOROBIPHENYL (BZ-81)	PA
EPA 1668 A	3,4,5-TRICHLOROBIPHENYL (BZ-38)	PA
EPA 1668 A	3,5-DICHLOROBIPHENYL (BZ-14)	PA
EPA 1668 A	4,4'-DICHLOROBIPHENYL (BZ-15)	PA
EPA 1668 A	DECACHLOROBIPHENYL (BZ-209)	PA
EPA 300.0 REV 2.1	FLUORIDE	PA
EPA 300.0 REV 2.1	NITRITE (AS N)	PA
EPA 3050 B	PREP: ACID DIGESTION OF SEDIMENTS, SLUDGES, AND SOILS	PA
EPA 3550 C	PREP: ULTRASONIC EXTRACTION	PA
EPA 3630 C	PREP: SILICA GEL CLEANUP	PA
EPA 3660 B	PREP: SULFUR CLEANUP	PA
EPA 5030	PREP: PURGE AND TRAP FOR AQUEOUS SAMPLES	PA
EPA 6010 D	ALUMINUM	PA
EPA 6010 D	ARSENIC	PA
EPA 6010 D	BERYLLIUM	PA
EPA 6010 D	CADMIUM	PA
EPA 6010 D	CHROMIUM	PA
EPA 6010 D	COPPER	PA
EPA 6010 D	LEAD	PA
EPA 6010 D	MAGNESIUM	PA
EPA 6010 D	MOLYBDENUM	PA
EPA 6010 D	POTASSIUM	PA
EPA 6010 D	SILICA AS SIO2	PA
EPA 6010 D	SODIUM	PA
EPA 6010 D	THALLIUM	PA
EPA 6010 D	TITANIUM	PA
EPA 6010 D	ZINC	PA
EPA 6010 D - EXTENDED	THORIUM	PA
EPA 6020 B	ALUMINUM	PA
EPA 6020 B	ARSENIC	PA
EPA 6020 B	BERYLLIUM	PA



Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services



Scope of Accreditation

VELAP Certificate No.: 12574

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

Virginia Laboratory ID: 460182
Effective Date: July 15, 2023
Expiration Date: June 14, 2024

SOLID AND CHEMICAL MATERIALS

METHOD	ANALYTE	PRIMARY
EPA 6020 B	CADMIUM	PA
EPA 6020 B	CHROMIUM	PA
EPA 6020 B	COPPER	PA
EPA 6020 B	LEAD	PA
EPA 6020 B	MANGANESE	PA
EPA 6020 B	NICKEL	PA
EPA 6020 B	SELENIUM	PA
EPA 6020 B	SODIUM	PA
EPA 6020 B	TIN	PA
EPA 6020 B	ZINC	PA
EPA 6020 B - EXTENDED	TITANIUM	PA
EPA 6850	PERCHLORATE	PA
EPA 7199	CHROMIUM VI	PA
EPA 8011	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	PA
EPA 8015 C	DIESEL RANGE ORGANICS (DRO)	PA
EPA 8015 C	ETHYLENE GLYCOL	PA
EPA 8015 C	ISOPROPYL ALCOHOL (2-PROPANOL, ISOPROPANOL)	PA
EPA 8015 C - EXTENDED	TRIETHYLENE GLYCOL	PA
EPA 8015 D	ETHANOL	PA
EPA 8015 D	ISOPROPYL ALCOHOL (2-PROPANOL, ISOPROPANOL)	PA
EPA 8015 D - EXTENDED	ETHYLENE GLYCOL	PA
EPA 8081 B	4,4'-DDD	PA
EPA 8081 B	4,4'-DDT	PA
EPA 8081 B	ALPHA-BHC (ALPHA-HEXACHLOROCYCLOHEXANE)	PA
EPA 8081 B	BETA-BHC (BETA-HEXACHLOROCYCLOHEXANE)	PA
EPA 8081 B	DELTA-BHC	PA
EPA 8081 B	ENDOSULFAN I	PA
EPA 8081 B	ENDOSULFAN SULFATE	PA
EPA 8081 B	ENDRIN ALDEHYDE	PA
EPA 8081 B	GAMMA-BHC (LINDANE, GAMMA-HEXACHLOROCYCLOHEXANE)	PA
EPA 8081 B	HEPTACHLOR	PA
EPA 8081 B	METHOXYCHLOR	PA

METHOD	ANALYTE	PRIMARY
EPA 6020 B	CALCIUM	PA
EPA 6020 B	COBALT	PA
EPA 6020 B	IRON	PA
EPA 6020 B	MAGNESIUM	PA
EPA 6020 B	MOLYBDENUM	PA
EPA 6020 B	POTASSIUM	PA
EPA 6020 B	SILVER	PA
EPA 6020 B	THALLIUM	PA
EPA 6020 B	VANADIUM	PA
EPA 6020 B - EXTENDED	STRONTIUM	PA
EPA 6020 B - EXTENDED	URANIUM (MASS)	PA
EPA 7196 A	CHROMIUM VI	PA
EPA 7471 B	MERCURY	PA
EPA 8011	1,2-DIBROMOETHANE (EDB, ETHYLENE DIBROMIDE)	PA
EPA 8015 C	ETHANOL	PA
EPA 8015 C	GASOLINE RANGE ORGANICS (GRO)	PA
EPA 8015 C	METHANOL	PA
EPA 8015 D	DIESEL RANGE ORGANICS (DRO)	PA
EPA 8015 D	GASOLINE RANGE ORGANICS (GRO)	PA
EPA 8015 D	METHANOL	PA
EPA 8015 D - EXTENDED	TRIETHYLENE GLYCOL	PA
EPA 8081 B	4,4'-DDE	PA
EPA 8081 B	ALDRIN	PA
EPA 8081 B	ALPHA-CHLORDANE (CIS-CHLORDANE)	PA
EPA 8081 B	CHLORDANE, TOTAL	PA
EPA 8081 B	DIELDRIN	PA
EPA 8081 B	ENDOSULFAN II	PA
EPA 8081 B	ENDRIN	PA
EPA 8081 B	ENDRIN KETONE	PA
EPA 8081 B	GAMMA-CHLORDANE (TRANS-CHLORDANE)	PA
EPA 8081 B	HEPTACHLOR EPOXIDE	PA

Scope of Accreditation

VELAP Certificate No.: 12574

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

Virginia Laboratory ID: 460182
Effective Date: July 15, 2023
Expiration Date: June 14, 2024

SOLID AND CHEMICAL MATERIALS

METHOD	ANALYTE	PRIMARY
EPA 8081 B	TOXAPHENE (CHLORINATED CAMPHENE)	PA
EPA 8081 B - EXTENDED	2,4'-DDE	PA
EPA 8081 B - EXTENDED	KEPONE	PA
EPA 8082 A	AROCLOR-1016 (PCB-1016)	PA
EPA 8082 A	AROCLOR-1232 (PCB-1232)	PA
EPA 8082 A	AROCLOR-1248 (PCB-1248)	PA
EPA 8082 A	AROCLOR-1260 (PCB-1260)	PA
EPA 8082 A - EXTENDED	AROCLOR-1268 (PCB-1268)	PA
EPA 8151 A	2,4-D	PA
EPA 8151 A	DALAPON	PA
EPA 8151 A	DICHLOROPROP (DICHLORPROP)	PA
EPA 8151 A	MCPA	PA
EPA 8151 A	PENTACHLOROPHENOL	PA
EPA 8151 A	SILVEX (2,4,5-TP)	PA
EPA 8260 C	1,1,1-TRICHLOROETHANE	PA
EPA 8260 C	1,1,2-TRICHLOROETHANE	PA
EPA 8260 C	1,1-DICHLOROETHYLENE	PA
EPA 8260 C	1,2,3-TRICHLOROBENZENE	PA
EPA 8260 C	1,2,4-TRICHLOROBENZENE	PA
EPA 8260 C	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	PA
EPA 8260 C	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	PA
EPA 8260 C	1,2-DICHLOROPROPANE	PA
EPA 8260 C	1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	PA
EPA 8260 C	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	PA
EPA 8260 C	1-BUTANOL (N-BUTANOL, N-BUTYL ALCOHOL)	PA
EPA 8260 C	2-BUTANONE (METHYL ETHYL KETONE, MEK)	PA
EPA 8260 C	2-CHLOROTOLUENE	PA
EPA 8260 C	2-NITROPROPANE	PA
EPA 8260 C	4-ISOPROPYLTOLUENE (P-CYMENE, P-ISOPROPYLTOLUENE)	PA
EPA 8260 C	ACETONE	PA
EPA 8260 C	ACROLEIN (PROPENAL)	PA
EPA 8260 C	ALLYL CHLORIDE (3-CHLOROPROPENE)	PA
EPA 8081 B - EXTENDED	2,4'-DDD	PA
EPA 8081 B - EXTENDED	2,4'-DDT	PA
EPA 8081 B - EXTENDED	MIREX	PA
EPA 8082 A	AROCLOR-1221 (PCB-1221)	PA
EPA 8082 A	AROCLOR-1242 (PCB-1242)	PA
EPA 8082 A	AROCLOR-1254 (PCB-1254)	PA
EPA 8082 A - EXTENDED	AROCLOR-1262 (PCB-1262)	PA
EPA 8151 A	2,4,5-T	PA
EPA 8151 A	2,4-DB	PA
EPA 8151 A	DICAMBA	PA
EPA 8151 A	DINOSEB (2-SEC-BUTYL-4,6-DINITROPHENOL, DNBP)	PA
EPA 8151 A	MCPP	PA
EPA 8151 A	PICLORAM	PA
EPA 8260 C	1,1,1,2-TETRACHLOROETHANE	PA
EPA 8260 C	1,1,2,2-TETRACHLOROETHANE	PA
EPA 8260 C	1,1-DICHLOROETHANE	PA
EPA 8260 C	1,1-DICHLOROPROPENE	PA
EPA 8260 C	1,2,3-TRICHLOROPROPANE	PA
EPA 8260 C	1,2,4-TRIMETHYLBENZENE	PA
EPA 8260 C	1,2-DIBROMOETHANE (EDB, ETHYLENE DIBROMIDE)	PA
EPA 8260 C	1,2-DICHLOROETHANE (ETHYLENE DICHLORIDE)	PA
EPA 8260 C	1,3,5-TRIMETHYLBENZENE	PA
EPA 8260 C	1,3-DICHLOROPROPANE	PA
EPA 8260 C	1,4-DIOXANE (P-DIOXANE /1,4-DIETHYLENEOXIDE)	PA
EPA 8260 C	2,2-DICHLOROPROPANE	PA
EPA 8260 C	2-CHLOROETHYL VINYL ETHER	PA
EPA 8260 C	2-HEXANONE	PA
EPA 8260 C	4-CHLOROTOLUENE	PA
EPA 8260 C	4-METHYL-2-PENTANONE (METHYL ISOBUTYL KETONE, MIBK)	PA
EPA 8260 C	ACETONITRILE	PA
EPA 8260 C	ACRYLONITRILE	PA



Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services



Scope of Accreditation

VELAP Certificate No.: 12574

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

Virginia Laboratory ID: 460182
Effective Date: July 15, 2023
Expiration Date: June 14, 2024

SOLID AND CHEMICAL MATERIALS

METHOD	ANALYTE	PRIMARY
EPA 8260 C	BENZENE	PA
EPA 8260 C	BROMOBENZENE	PA
EPA 8260 C	BROMODICHLOROMETHANE	PA
EPA 8260 C	CARBON DISULFIDE	PA
EPA 8260 C	CHLOROBENZENE	PA
EPA 8260 C	CHLOROETHANE (ETHYL CHLORIDE)	PA
EPA 8260 C	CHLOROPRENE (2-CHLORO-1,3-BUTADIENE)	PA
EPA 8260 C	CIS-1,3-DICHLOROPROPENE	PA
EPA 8260 C	DIBROMOMETHANE (METHYLENE BROMIDE)	PA
EPA 8260 C	ETHANOL	PA
EPA 8260 C	ETHYL METHACRYLATE	PA
EPA 8260 C	ETHYLBENZENE	PA
EPA 8260 C	IODOMETHANE (METHYL IODIDE)	PA
EPA 8260 C	ISOPROPYL ALCOHOL (2-PROPANOL, ISOPROPANOL)	PA
EPA 8260 C	M+P-XYLENE	PA
EPA 8260 C	METHYL BROMIDE (BROMOMETHANE)	PA
EPA 8260 C	METHYL METHACRYLATE	PA
EPA 8260 C	METHYLCYCLOHEXANE	PA
EPA 8260 C	N-BUTYLBENZENE	PA
EPA 8260 C	NAPHTHALENE	PA
EPA 8260 C	PENTACHLOROETHANE	PA
EPA 8260 C	SEC-BUTYLBENZENE	PA
EPA 8260 C	TERT-AMYL METHYL ETHER (TAME)	PA
EPA 8260 C	TERT-BUTYLBENZENE	PA
EPA 8260 C	TOLUENE	PA
EPA 8260 C	TRANS-1,3-DICHLOROPROPENE (TRANS-1,3-DICHLOROPROPYLENE)	PA
EPA 8260 C	TRICHLOROETHENE (TRICHLOROETHYLENE)	PA
EPA 8260 C	VINYL ACETATE	PA
EPA 8260 C	XYLENE (TOTAL)	PA

METHOD	ANALYTE	PRIMARY
EPA 8260 C	BENZYL CHLORIDE	PA
EPA 8260 C	BROMOCHLOROMETHANE	PA
EPA 8260 C	BROMOFORM	PA
EPA 8260 C	CARBON TETRACHLORIDE	PA
EPA 8260 C	CHLORODIBROMOMETHANE	PA
EPA 8260 C	CHLOROFORM	PA
EPA 8260 C	CIS-1,2-DICHLOROETHYLENE	PA
EPA 8260 C	CYCLOHEXANE	PA
EPA 8260 C	DICHLORODIFLUOROMETHANE (FREON-12)	PA
EPA 8260 C	ETHYL ACETATE	PA
EPA 8260 C	ETHYL-T-BUTYLETHER (2-ETHOXY-2-METHYLPROPANE, ETBE)	PA
EPA 8260 C	HEXACHLOROBUTADIENE (1,3-HEXACHLOROBUTADIENE)	PA
EPA 8260 C	ISOBUTYL ALCOHOL (2-METHYL-1-PROPANOL)	PA
EPA 8260 C	ISOPROPYLBENZENE	PA
EPA 8260 C	METHACRYLONITRILE	PA
EPA 8260 C	METHYL CHLORIDE (CHLOROMETHANE)	PA
EPA 8260 C	METHYL TERT-BUTYL ETHER (MTBE)	PA
EPA 8260 C	METHYLENE CHLORIDE (DICHLOROMETHANE)	PA
EPA 8260 C	N-PROPYLBENZENE	PA
EPA 8260 C	O-XYLENE	PA
EPA 8260 C	PROPIONITRILE (ETHYL CYANIDE)	PA
EPA 8260 C	STYRENE	PA
EPA 8260 C	TERT-BUTYL ALCOHOL (2-METHYL-2-PROPANOL)	PA
EPA 8260 C	TETRACHLOROETHENE (PERCHLOROETHENE)	PA
EPA 8260 C	TRANS-1,2-DICHLOROETHENE	PA
EPA 8260 C	TRANS-1,4-DICHLORO-2-BUTENE	PA
EPA 8260 C	TRICHLOROFLUOROMETHANE (FLUOROTRICHLOROMETHANE, FREON 11)	PA
EPA 8260 C	VINYL CHLORIDE (CHLOROETHENE)	PA

Scope of Accreditation

VELAP Certificate No.: 12574

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

Virginia Laboratory ID: 460182
Effective Date: July 15, 2023
Expiration Date: June 14, 2024

SOLID AND CHEMICAL MATERIALS

METHOD	ANALYTE	PRIMARY
EPA 8260 C - EXTENDED	1,1,2-TRICHLORO-1,2,2-TRIFLUORO ETHANE (FREON 113)	PA
EPA 8260 C - EXTENDED	CYCLOHEXANONE	PA
EPA 8260 C - EXTENDED	GASOLINE RANGE ORGANICS (GRO)	PA
EPA 8260 C - EXTENDED	N-BUTYL-ACETATE	PA
EPA 8260 C - EXTENDED	TERT-AMYL ALCOHOL (TAA)	PA
EPA 8260 C - EXTENDED	TETRAHYDROFURAN (THF)	PA
EPA 8260 D	1,1,1,2-TETRACHLOROETHANE	PA
EPA 8260 D	1,1,2,2-TETRACHLOROETHANE	PA
EPA 8260 D	1,1,2-TRICHLOROETHANE	PA
EPA 8260 D	1,1-DICHLOROETHYLENE	PA
EPA 8260 D	1,2,3-TRICHLOROBENZENE	PA
EPA 8260 D	1,2,3-TRIMETHYLBENZENE	PA
EPA 8260 D	1,2,4-TRIMETHYLBENZENE	PA
EPA 8260 D	1,2-DIBROMOETHANE (EDB, ETHYLENE DIBROMIDE)	PA
EPA 8260 D	1,2-DICHLOROETHANE (ETHYLENE DICHLORIDE)	PA
EPA 8260 D	1,3,5-TRIMETHYLBENZENE	PA
EPA 8260 D	1,3-DICHLOROPROPANE	PA
EPA 8260 D	1,4-DIOXANE (P-DIOXANE /1,4-DIETHYLENEOXIDE)	PA
EPA 8260 D	2,2-DICHLOROPROPANE	PA
EPA 8260 D	2-CHLOROETHYL VINYL ETHER	PA
EPA 8260 D	2-HEXANONE	PA
EPA 8260 D	4-CHLOROTOLUENE	PA
EPA 8260 D	4-METHYL-2-PENTANONE (METHYL ISOBUTYL KETONE, MIBK)	PA
EPA 8260 D	ACETONITRILE	PA
EPA 8260 D	ACRYLONITRILE	PA
EPA 8260 D	BENZENE	PA
EPA 8260 D	BROMOBENZENE	PA
EPA 8260 D	BROMODICHLOROMETHANE	PA
EPA 8260 D	CARBON DISULFIDE	PA
EPA 8260 D	CHLOROBENZENE	PA
EPA 8260 C - EXTENDED	1,2,3-TRIMETHYLBENZENE	PA
EPA 8260 C - EXTENDED	DIISOPROPYLETHER (DIPE, ISOPROPYL ETHER)	PA
EPA 8260 C - EXTENDED	METHYL ACETATE	PA
EPA 8260 C - EXTENDED	N-HEXANE	PA
EPA 8260 C - EXTENDED	TERT-BUTYL FORMATE	PA
EPA 8260 C SIM	1,4-DIOXANE (P-DIOXANE /1,4-DIETHYLENEOXIDE)	PA
EPA 8260 D	1,1,1-TRICHLOROETHANE	PA
EPA 8260 D	1,1,2-TRICHLORO-1,2,2-TRIFLUORO ETHANE (FREON 113)	PA
EPA 8260 D	1,1-DICHLOROETHANE	PA
EPA 8260 D	1,1-DICHLOROPROPENE	PA
EPA 8260 D	1,2,3-TRICHLOROPROPANE	PA
EPA 8260 D	1,2,4-TRICHLOROBENZENE	PA
EPA 8260 D	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	PA
EPA 8260 D	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	PA
EPA 8260 D	1,2-DICHLOROPROPANE	PA
EPA 8260 D	1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	PA
EPA 8260 D	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	PA
EPA 8260 D	1-BUTANOL (N-BUTANOL, N-BUTYL ALCOHOL)	PA
EPA 8260 D	2-BUTANONE (METHYL ETHYL KETONE, MEK)	PA
EPA 8260 D	2-CHLOROTOLUENE	PA
EPA 8260 D	2-NITROPROPANE	PA
EPA 8260 D	4-ISOPROPYLTOLUENE (P-CYMENE, P-ISOPROPYLTOLUENE)	PA
EPA 8260 D	ACETONE	PA
EPA 8260 D	ACROLEIN (PROPENAL)	PA
EPA 8260 D	ALLYL CHLORIDE (3-CHLOROPROPENE)	PA
EPA 8260 D	BENZYL CHLORIDE	PA
EPA 8260 D	BROMOCHLOROMETHANE	PA
EPA 8260 D	BROMOFORM	PA
EPA 8260 D	CARBON TETRACHLORIDE	PA



Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services



Scope of Accreditation

VELAP Certificate No.: 12574

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

Virginia Laboratory ID: 460182
Effective Date: July 15, 2023
Expiration Date: June 14, 2024

SOLID AND CHEMICAL MATERIALS

METHOD	ANALYTE	PRIMARY
EPA 8260 D	CHLORODIBROMOMETHANE	PA
EPA 8260 D	CHLOROFORM	PA
EPA 8260 D	CIS-1,2-DICHLOROETHYLENE	PA
EPA 8260 D	CYCLOHEXANE	PA
EPA 8260 D	DIBROMOMETHANE (METHYLENE BROMIDE)	PA
EPA 8260 D	ETHANOL	PA
EPA 8260 D	ETHYL METHACRYLATE	PA
EPA 8260 D	ETHYLBENZENE	PA
EPA 8260 D	IODOMETHANE (METHYL IODIDE)	PA
EPA 8260 D	ISOPROPYL ALCOHOL (2-PROPANOL, ISOPROPANOL)	PA
EPA 8260 D	M+P-XYLENE	PA
EPA 8260 D	METHYL ACETATE	PA
EPA 8260 D	METHYL CHLORIDE (CHLOROMETHANE)	PA
EPA 8260 D	METHYL TERT-BUTYL ETHER (MTBE)	PA
EPA 8260 D	METHYLENE CHLORIDE (DICHLOROMETHANE)	PA
EPA 8260 D	N-PROPYLBENZENE	PA
EPA 8260 D	O-XYLENE	PA
EPA 8260 D	PROPIONITRILE (ETHYL CYANIDE)	PA
EPA 8260 D	STYRENE	PA
EPA 8260 D	TERT-BUTYL ALCOHOL (2-METHYL-2-PROPANOL)	PA
EPA 8260 D	TETRACHLOROETHENE (PERCHLOROETHENE)	PA
EPA 8260 D	TRANS-1,2-DICHLOROETHENE	PA
EPA 8260 D	TRANS-1,4-DICHLORO-2-BUTENE	PA
EPA 8260 D	TRICHLOROFLUOROMETHANE (FLUOROTRICHLOROMETHANE, FREON 11)	PA
EPA 8260 D	VINYL CHLORIDE (CHLOROETHENE)	PA
EPA 8260 D - EXTENDED	CYCLOHEXANONE	PA
EPA 8260 D - EXTENDED	N-HEXANE	PA
EPA 8260 D	CHLOROETHANE (ETHYL CHLORIDE)	PA
EPA 8260 D	CHLOROPRENE (2-CHLORO-1,3-BUTADIENE)	PA
EPA 8260 D	CIS-1,3-DICHLOROPROPENE	PA
EPA 8260 D	DI-ISOPROPYLETHER (DIPE, ISOPROPYL ETHER)	PA
EPA 8260 D	DICHLORODIFLUOROMETHANE (FREON-12)	PA
EPA 8260 D	ETHYL ACETATE	PA
EPA 8260 D	ETHYL-T-BUTYLETHER (2-ETHOXY-2-METHYLPROPANE, ETBE)	PA
EPA 8260 D	HEXACHLOROBUTADIENE (1,3-HEXACHLOROBUTADIENE)	PA
EPA 8260 D	ISOBUTYL ALCOHOL (2-METHYL-1-PROPANOL)	PA
EPA 8260 D	ISOPROPYLBENZENE	PA
EPA 8260 D	METHACRYLONITRILE	PA
EPA 8260 D	METHYL BROMIDE (BROMOMETHANE)	PA
EPA 8260 D	METHYL METHACRYLATE	PA
EPA 8260 D	METHYLCYCLOHEXANE	PA
EPA 8260 D	N-BUTYLBENZENE	PA
EPA 8260 D	NAPHTHALENE	PA
EPA 8260 D	PENTACHLOROETHANE	PA
EPA 8260 D	SEC-BUTYLBENZENE	PA
EPA 8260 D	TERT-AMYL METHYL ETHER (TAME)	PA
EPA 8260 D	TERT-BUTYLBENZENE	PA
EPA 8260 D	TOLUENE	PA
EPA 8260 D	TRANS-1,3-DICHLOROPROPENE (TRANS-1,3-DICHLOROPROPYLENE)	PA
EPA 8260 D	TRICHLOROETHENE (TRICHLOROETHYLENE)	PA
EPA 8260 D	VINYL ACETATE	PA
EPA 8260 D	XYLENE (TOTAL)	PA
EPA 8260 D - EXTENDED	N-BUTYL-ACETATE	PA
EPA 8260 D - EXTENDED	TETRAHYDROFURAN (THF)	PA

Scope of Accreditation

VELAP Certificate No.: 12574

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

Virginia Laboratory ID: 460182
Effective Date: July 15, 2023
Expiration Date: June 14, 2024

SOLID AND CHEMICAL MATERIALS

METHOD	ANALYTE	PRIMARY
EPA 8270 D	1,2,4,5-TETRACHLOROBENZENE	PA
EPA 8270 D	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	PA
EPA 8270 D	1,3,5-TRINITROBENZENE (1,3,5-TNB)	PA
EPA 8270 D	1,3-DINITROBENZENE (1,3-DNB)	PA
EPA 8270 D	1,4-DINITROBENZENE (1,4-DNB)	PA
EPA 8270 D	1,4-PHENYLENEDIAMINE	PA
EPA 8270 D	1-NAPHTHYLAMINE	PA
EPA 8270 D	2,3,4,6-TETRACHLOROPHENOL	PA
EPA 8270 D	2,4,6-TRICHLOROPHENOL	PA
EPA 8270 D	2,4-DIMETHYLPHENOL	PA
EPA 8270 D	2,4-DINITROTOLUENE (2,4-DNT)	PA
EPA 8270 D	2,6-DINITROTOLUENE (2,6-DNT)	PA
EPA 8270 D	2-CHLORONAPHTHALENE	PA
EPA 8270 D	2-METHYL-4,6-DINITROPHENOL (4,6-DINITRO-2-METHYLPHENOL)	PA
EPA 8270 D	2-METHYLPHENOL (O-CRESOL)	PA
EPA 8270 D	2-NITROANILINE	PA
EPA 8270 D	2-PICOLINE (2-METHYLPYRIDINE)	PA
EPA 8270 D	3,3'-DIMETHYLBENZIDINE	PA
EPA 8270 D	3-NITROANILINE	PA
EPA 8270 D	4-AMINOBIPHENYL	PA
EPA 8270 D	4-CHLORO-3-METHYLPHENOL	PA
EPA 8270 D	4-CHLOROPHENYL PHENYLETHER	PA
EPA 8270 D	4-NITROANILINE	PA
EPA 8270 D	4-NITROQUINOLINE-1-OXIDE	PA
EPA 8270 D	7,12-DIMETHYLBENZ(A) ANTHRACENE	PA
EPA 8270 D	ACENAPHTHENE	PA
EPA 8270 D	ACETOPHENONE	PA
EPA 8270 D	ANTHRACENE	PA
EPA 8270 D	BENZIDINE	PA
EPA 8270 D	BENZO(A)PYRENE	PA
EPA 8270 D	BENZO(G,H,I)PERYLENE	PA
EPA 8270 D	BENZOIC ACID	PA
EPA 8270 D	BIS(2-CHLOROETHOXY)METHANE	PA
EPA 8270 D	1,2,4-TRICHLOROBENZENE	PA
EPA 8270 D	1,2-DIPHENYLHYDRAZINE	PA
EPA 8270 D	1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	PA
EPA 8270 D	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	PA
EPA 8270 D	1,4-NAPHTHOQUINONE	PA
EPA 8270 D	1-CHLORONAPHTHALENE	PA
EPA 8270 D	2,2'-OXYBIS(1-CHLOROPROPANE)	PA
EPA 8270 D	2,4,5-TRICHLOROPHENOL	PA
EPA 8270 D	2,4-DICHLOROPHENOL	PA
EPA 8270 D	2,4-DINITROPHENOL	PA
EPA 8270 D	2,6-DICHLOROPHENOL	PA
EPA 8270 D	2-ACETYLAMINOFLUORENE	PA
EPA 8270 D	2-CHLOROPHENOL	PA
EPA 8270 D	2-METHYLNAPHTHALENE	PA
EPA 8270 D	2-NAPHTHYLAMINE	PA
EPA 8270 D	2-NITROPHENOL	PA
EPA 8270 D	3,3'-DICHLOROBENZIDINE	PA
EPA 8270 D	3-METHYLCHOLANTHRENE	PA
EPA 8270 D	4,4'-METHYLENEBIS-2-CHLOROANILINE	PA
EPA 8270 D	4-BROMOPHENYL PHENYL ETHER (BDE-3)	PA
EPA 8270 D	4-CHLOROANILINE	PA
EPA 8270 D	4-DIMETHYL AMINOAZOBENZENE	PA
EPA 8270 D	4-NITROPHENOL	PA
EPA 8270 D	5-NITRO-O-TOLUIDINE	PA
EPA 8270 D	A-A-DIMETHYLPHENETHYLAMINE	PA
EPA 8270 D	ACENAPHTHYLENE	PA
EPA 8270 D	ANILINE	PA
EPA 8270 D	ARAMITE	PA
EPA 8270 D	BENZO(A)ANTHRACENE	PA
EPA 8270 D	BENZO(B)FLUORANTHENE	PA
EPA 8270 D	BENZO(K)FLUORANTHENE	PA
EPA 8270 D	BENZYL ALCOHOL	PA
EPA 8270 D	BIS(2-CHLOROETHYL) ETHER	PA



Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services



Scope of Accreditation

VELAP Certificate No.: 12574

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

Virginia Laboratory ID: 460182
Effective Date: July 15, 2023
Expiration Date: June 14, 2024

SOLID AND CHEMICAL MATERIALS

METHOD	ANALYTE	PRIMARY
EPA 8270 D	BIS(2-ETHYLHEXYL) PHTHALATE (DI(2-ETHYLHEXYL)PHTHALATE), (DEHP)	PA
EPA 8270 D	CHLOROBENZILATE	PA
EPA 8270 D	DI-N-BUTYL PHTHALATE	PA
EPA 8270 D	DIALLATE	PA
EPA 8270 D	DIBENZO(A,H) ANTHRACENE	PA
EPA 8270 D	DIETHYL PHTHALATE	PA
EPA 8270 D	DIMETHYL PHTHALATE	PA
EPA 8270 D	DISULFOTON	PA
EPA 8270 D	FAMPHUR	PA
EPA 8270 D	FLUORENE	PA
EPA 8270 D	HEXACHLOROBUTADIENE (1,3-HEXACHLOROBUTADIENE)	PA
EPA 8270 D	HEXACHLOROETHANE	PA
EPA 8270 D	INDENO(1,2,3-CD) PYRENE	PA
EPA 8270 D	ISOPHORONE	PA
EPA 8270 D	KEPONE	PA
EPA 8270 D	METHYL METHANESULFONATE	PA
EPA 8270 D	N-NITROSO-DI-N-BUTYLAMINE	PA
EPA 8270 D	N-NITROSODIETHYLAMINE	PA
EPA 8270 D	N-NITROSODIPHENYLAMINE	PA
EPA 8270 D	N-NITROSOMORPHOLINE	PA
EPA 8270 D	N-NITROSOPYRROLIDINE	PA
EPA 8270 D	NITROBENZENE	PA
EPA 8270 D	O-TOLUIDINE (2-METHYLANILINE)	PA
EPA 8270 D	PENTACHLOROBENZENE	PA
EPA 8270 D	PENTACHLOROPHENOL	PA
EPA 8270 D	PHENANTHRENE	PA
EPA 8270 D	PHORATE	PA
EPA 8270 D	PRONAMIDE (KERB)	PA
EPA 8270 D	SAFROLE	PA
EPA 8270 D	THIONAZIN (ZINOPHOS, DIETHYL-O-2-PYRAZINYL PHOSPHOROTHIONATE)	PA
EPA 8270 D - EXTENDED	1,2,3,4-TETRACHLOROBENZENE	PA
EPA 8270 D - EXTENDED	1,4-DIOXANE (P-DIOXANE /1,4-DIETHYLENEOXIDE)	PA
EPA 8270 D - EXTENDED	3+4-METHYLPHENOL (M+P CRESOL)	PA
EPA 8270 D	BUTYL BENZYL PHTHALATE	PA
EPA 8270 D	CHRYSENE	PA
EPA 8270 D	DI-N-OCTYL PHTHALATE	PA
EPA 8270 D	DIBENZ(A, J) ACRIDINE	PA
EPA 8270 D	DIBENZOFURAN	PA
EPA 8270 D	DIMETHOATE	PA
EPA 8270 D	DIPHENYLAMINE	PA
EPA 8270 D	ETHYL METHANESULFONATE	PA
EPA 8270 D	FLUORANTHENE	PA
EPA 8270 D	HEXACHLOROBENZENE	PA
EPA 8270 D	HEXACHLOROCYCLOPENTADIENE	PA
EPA 8270 D	HEXACHLOROPROPENE	PA
EPA 8270 D	ISODRIN	PA
EPA 8270 D	ISOSAFROLE	PA
EPA 8270 D	METHAPYRILENE	PA
EPA 8270 D	METHYL PARATHION (PARATHION, METHYL)	PA
EPA 8270 D	N-NITROSODI-N-PROPYLAMINE	PA
EPA 8270 D	N-NITROSODIMETHYLAMINE	PA
EPA 8270 D	N-NITROSOMETHYLETHYLAMINE	PA
EPA 8270 D	N-NITROSOPIPERIDINE	PA
EPA 8270 D	NAPHTHALENE	PA
EPA 8270 D	O,O,O-TRIETHYL PHOSPHOROTHIOATE	PA
EPA 8270 D	PARATHION (PARATHION - ETHYL)	PA
EPA 8270 D	PENTACHLORONITROBENZENE	PA
EPA 8270 D	PHENACETIN	PA
EPA 8270 D	PHENOL	PA
EPA 8270 D	PHTHALIC ANHYDRIDE	PA
EPA 8270 D	PYRENE	PA
EPA 8270 D	SULFOTEP (TETRAETHYL DITHIOPYROPHOSPHATE, TEDP)	PA
EPA 8270 D - EXTENDED	1,1'-BIPHENYL (BZ-0)	PA
EPA 8270 D - EXTENDED	1,2,3,5-TETRACHLOROBENZENE	PA
EPA 8270 D - EXTENDED	1-METHYLNAPHTHALENE	PA
EPA 8270 D - EXTENDED	6-METHYLCHRYSENE	PA

Scope of Accreditation

VELAP Certificate No.: 12574

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

Virginia Laboratory ID: 460182
Effective Date: July 15, 2023
Expiration Date: June 14, 2024

SOLID AND CHEMICAL MATERIALS

METHOD	ANALYTE	PRIMARY
EPA 8270 D - EXTENDED	ATRAZINE	PA
EPA 8270 D - EXTENDED	CAPROLACTAM	PA
EPA 8270 D - EXTENDED	DIBENZ(A,H) ACRIDINE	PA
EPA 8270 D - EXTENDED	N,N-DIMETHYLFORMAMIDE	PA
EPA 8270 D - EXTENDED	QUINOLINE	PA
EPA 8270 D SIM	ACENAPHTHENE	PA
EPA 8270 D SIM	ANTHRACENE	PA
EPA 8270 D SIM	BENZO(A)PYRENE	PA
EPA 8270 D SIM	BENZO(G,H,I)PERYLENE	PA
EPA 8270 D SIM	CHRYSENE	PA
EPA 8270 D SIM	FLUORANTHENE	PA
EPA 8270 D SIM	INDENO(1,2,3-CD) PYRENE	PA
EPA 8270 D SIM	PHENANTHRENE	PA
EPA 8270 D SIM - EXTENDED	1,4-DIOXANE (P-DIOXANE /1,4-DIETHYLENEOXIDE)	PA
EPA 8270 E	1,1'-BIPHENYL (BZ-0)	PA
EPA 8270 E	1,2,4-TRICHLOROBENZENE	PA
EPA 8270 E	1,2-DIPHENYLHYDRAZINE	PA
EPA 8270 E	1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	PA
EPA 8270 E	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	PA
EPA 8270 E	1,4-DIOXANE (P-DIOXANE /1,4-DIETHYLENEOXIDE)	PA
EPA 8270 E	1-CHLORONAPHTHALENE	PA
EPA 8270 E	1-NAPHTHYLAMINE	PA
EPA 8270 E	2,4,5-TRICHLOROPHENOL	PA
EPA 8270 E	2,4-DICHLOROPHENOL	PA
EPA 8270 E	2,4-DINITROPHENOL	PA
EPA 8270 E	2,6-DICHLOROPHENOL	PA
EPA 8270 E	2-ACETYLAMINOFLUORENE	PA
EPA 8270 E	2-CHLOROPHENOL	PA
EPA 8270 E	2-METHYLNAPHTHALENE	PA
EPA 8270 E	2-NAPHTHYLAMINE	PA
EPA 8270 E	2-NITROPHENOL	PA
EPA 8270 E	3+4-METHYLPHENOL (M+P CRESOL)	PA
EPA 8270 E	3,3'-DIMETHYLBENZIDINE	PA
EPA 8270 E	3-NITROANILINE	PA
EPA 8270 D - EXTENDED	BENZALDEHYDE	PA
EPA 8270 D - EXTENDED	CARBAZOLE	PA
EPA 8270 D - EXTENDED	INDENE	PA
EPA 8270 D - EXTENDED	PYRIDINE	PA
EPA 8270 D SIM	2-METHYLNAPHTHALENE	PA
EPA 8270 D SIM	ACENAPHTHYLENE	PA
EPA 8270 D SIM	BENZO(A)ANTHRACENE	PA
EPA 8270 D SIM	BENZO(B)FLUORANTHENE	PA
EPA 8270 D SIM	BENZO(K)FLUORANTHENE	PA
EPA 8270 D SIM	DIBENZO(A,H) ANTHRACENE	PA
EPA 8270 D SIM	FLUORENE	PA
EPA 8270 D SIM	NAPHTHALENE	PA
EPA 8270 D SIM	PYRENE	PA
EPA 8270 D SIM - EXTENDED	1-METHYLNAPHTHALENE	PA
EPA 8270 E	1,2,4,5-TETRACHLOROBENZENE	PA
EPA 8270 E	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	PA
EPA 8270 E	1,3,5-TRINITROBENZENE (1,3,5-TNB)	PA
EPA 8270 E	1,3-DINITROBENZENE (1,3-DNB)	PA
EPA 8270 E	1,4-DINITROBENZENE (1,4-DNB)	PA
EPA 8270 E	1,4-NAPHTHOQUINONE	PA
EPA 8270 E	1-METHYLNAPHTHALENE	PA
EPA 8270 E	2,3,4,6-TETRACHLOROPHENOL	PA
EPA 8270 E	2,4,6-TRICHLOROPHENOL	PA
EPA 8270 E	2,4-DIMETHYLPHENOL	PA
EPA 8270 E	2,4-DINITROTOLUENE (2,4-DNT)	PA
EPA 8270 E	2,6-DINITROTOLUENE (2,6-DNT)	PA
EPA 8270 E	2-CHLORONAPHTHALENE	PA
EPA 8270 E	2-METHYL-4,6-DINITROPHENOL (4,6-DINITRO-2-METHYLPHENOL)	PA
EPA 8270 E	2-METHYLPHENOL (O-CRESOL)	PA
EPA 8270 E	2-NITROANILINE	PA
EPA 8270 E	2-PICOLINE (2-METHYLPYRIDINE)	PA
EPA 8270 E	3,3'-DICHLOROBENZIDINE	PA
EPA 8270 E	3-METHYLCHOLANTHRENE	PA
EPA 8270 E	4-AMINOBIPHENYL	PA



Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services



Scope of Accreditation

VELAP Certificate No.: 12574

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

Virginia Laboratory ID: 460182
Effective Date: July 15, 2023
Expiration Date: June 14, 2024

SOLID AND CHEMICAL MATERIALS

METHOD	ANALYTE	PRIMARY
EPA 8270 E	4-BROMOPHENYL PHENYL ETHER (BDE-3)	PA
EPA 8270 E	4-CHLOROANILINE	PA
EPA 8270 E	4-NITROANILINE	PA
EPA 8270 E	4-NITROQUINOLINE-1-OXIDE	PA
EPA 8270 E	7,12-DIMETHYLBENZ(A) ANTHRACENE	PA
EPA 8270 E	ACENAPHTHYLENE	PA
EPA 8270 E	ANILINE	PA
EPA 8270 E	ATRAZINE	PA
EPA 8270 E	BENZIDINE	PA
EPA 8270 E	BENZO(A)PYRENE	PA
EPA 8270 E	BENZO(G,H,I)PERYLENE	PA
EPA 8270 E	BENZOIC ACID	PA
EPA 8270 E	BIS(2-CHLOROETHOXY)METHANE	PA
EPA 8270 E	BIS(2-ETHYLHEXYL) PHTHALATE (DI(2-ETHYLHEXYL)PHTHALATE), (DEHP)	PA
EPA 8270 E	CAPROLACTAM	PA
EPA 8270 E	CHLOROBENZILATE	PA
EPA 8270 E	DI-N-BUTYL PHTHALATE	PA
EPA 8270 E	DIALLATE	PA
EPA 8270 E	DIBENZO(A,H) ANTHRACENE	PA
EPA 8270 E	DIETHYL PHTHALATE	PA
EPA 8270 E	DIMETHYL PHTHALATE	PA
EPA 8270 E	DIPHENYLAMINE	PA
EPA 8270 E	FLUORANTHENE	PA
EPA 8270 E	HEXACHLOROBENZENE	PA
EPA 8270 E	HEXACHLOROCYCLOPENTADIENE	PA
EPA 8270 E	HEXACHLOROPROPENE	PA
EPA 8270 E	ISODRIN	PA
EPA 8270 E	ISOSAFROLE	PA
EPA 8270 E	METHYL METHANESULFONATE	PA
EPA 8270 E	N-NITROSO-DI-N-BUTYLAMINE	PA
EPA 8270 E	N-NITROSODIETHYLAMINE	PA
EPA 8270 E	N-NITROSODIPHENYLAMINE	PA
EPA 8270 E	N-NITROSOMORPHOLINE	PA
EPA 8270 E	N-NITROSOPYRROLIDINE	PA
EPA 8270 E	4-CHLORO-3-METHYLPHENOL	PA
EPA 8270 E	4-CHLOROPHENYL PHENYLETHER	PA
EPA 8270 E	4-NITROPHENOL	PA
EPA 8270 E	5-NITRO-O-TOLUIDINE	PA
EPA 8270 E	ACENAPHTHENE	PA
EPA 8270 E	ACETOPHENONE	PA
EPA 8270 E	ANTHRACENE	PA
EPA 8270 E	BENZALDEHYDE	PA
EPA 8270 E	BENZO(A)ANTHRACENE	PA
EPA 8270 E	BENZO(B)FLUORANTHENE	PA
EPA 8270 E	BENZO(K)FLUORANTHENE	PA
EPA 8270 E	BENZYL ALCOHOL	PA
EPA 8270 E	BIS(2-CHLOROETHYL) ETHER	PA
EPA 8270 E	BUTYL BENZYL PHTHALATE	PA
EPA 8270 E	CARBAZOLE	PA
EPA 8270 E	CHRYSENE	PA
EPA 8270 E	DI-N-OCTYL PHTHALATE	PA
EPA 8270 E	DIBENZ(A, J) ACRIDINE	PA
EPA 8270 E	DIBENZOFURAN	PA
EPA 8270 E	DIMETHOATE	PA
EPA 8270 E	DINOSEB (2-SEC-BUTYL-4,6-DINITROPHENOL, DNBP)	PA
EPA 8270 E	ETHYL METHANESULFONATE	PA
EPA 8270 E	FLUORENE	PA
EPA 8270 E	HEXACHLOROBUTADIENE (1,3-HEXACHLOROBUTADIENE)	PA
EPA 8270 E	HEXACHLOROETHANE	PA
EPA 8270 E	INDENO(1,2,3-CD) PYRENE	PA
EPA 8270 E	ISOPHORONE	PA
EPA 8270 E	METHAPYRILENE	PA
EPA 8270 E	METHYL PARATHION (PARATHION, METHYL)	PA
EPA 8270 E	N-NITROSODI-N-PROPYLAMINE	PA
EPA 8270 E	N-NITROSODIMETHYLAMINE	PA
EPA 8270 E	N-NITROSOMETHYLETHYLAMINE	PA
EPA 8270 E	N-NITROSOPIPERIDINE	PA
EPA 8270 E	NAPHTHALENE	PA

Scope of Accreditation

VELAP Certificate No.: 12574

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

Virginia Laboratory ID: 460182
Effective Date: July 15, 2023
Expiration Date: June 14, 2024

SOLID AND CHEMICAL MATERIALS

METHOD	ANALYTE	PRIMARY
EPA 8270 E	NITROBENZENE	PA
EPA 8270 E	O-TOLUIDINE (2-METHYLANILINE)	PA
EPA 8270 E	PENTACHLOROBENZENE	PA
EPA 8270 E	PENTACHLOROPHENOL	PA
EPA 8270 E	PHENANTHRENE	PA
EPA 8270 E	PHORATE	PA
EPA 8270 E	PYRENE	PA
EPA 8270 E	SAFROLE	PA
EPA 8270 E	THIONAZIN (ZINOPHOS, DIETHYL-O-2-PYRAZINYL PHOSPHOROTHIONATE)	PA
EPA 8270 E - EXTENDED	2,2'-OXYBIS(1-CHLOROPROPANE)	PA
EPA 8270 E - EXTENDED	6-METHYLCHRYSENE	PA
EPA 8270 E - EXTENDED	DIPHENYL ETHER (DIPHENYL OXIDE)	PA
EPA 8270 E - EXTENDED	QUINOLINE	PA
EPA 8270 E SIM	1-METHYLNAPHTHALENE	PA
EPA 8270 E SIM	ACENAPHTHENE	PA
EPA 8270 E SIM	ANTHRACENE	PA
EPA 8270 E SIM	BENZO(A)PYRENE	PA
EPA 8270 E SIM	BENZO(G,H,I)PERYLENE	PA
EPA 8270 E SIM	CHRYSENE	PA
EPA 8270 E SIM	FLUORANTHENE	PA
EPA 8270 E SIM	INDENO(1,2,3-CD) PYRENE	PA
EPA 8270 E SIM	PHENANTHRENE	PA
EPA 8290 A	1,2,3,4,6,7,8,9-OCTACHLORODIBENZO-P-DIOXIN (OCDD)	PA
EPA 8290 A	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-P-DIOXIN (1,2,3,4,6,7,8-HPCDD)	PA
EPA 8290 A	1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN (1,2,3,4,7,8,9-HPCDF)	PA
EPA 8290 A	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN (1,2,3,4,7,8-HXCDF)	PA
EPA 8290 A	1,2,3,6,7,8-HEXACHLORODIBENZOFURAN (1,2,3,6,7,8-HXCDF)	PA
EPA 8290 A	1,2,3,7,8,9-HEXACHLORODIBENZOFURAN (1,2,3,7,8,9-HXCDF)	PA
EPA 8290 A	1,2,3,7,8-PENTACHLORODIBENZOFURAN (1,2,3,7,8-PECDF)	PA
EPA 8290 A	2,3,4,7,8-PENTACHLORODIBENZOFURAN	PA
EPA 8270 E	O,O,O-TRIETHYL PHOSPHOROTHIOATE	PA
EPA 8270 E	PARATHION (PARATHION - ETHYL)	PA
EPA 8270 E	PENTACHLORONITROBENZENE	PA
EPA 8270 E	PHENACETIN	PA
EPA 8270 E	PHENOL	PA
EPA 8270 E	PRONAMIDE (KERB)	PA
EPA 8270 E	PYRIDINE	PA
EPA 8270 E	SULFOTEP (TETRAETHYL DITHIOPYROPHOSPHATE, TEDP)	PA
EPA 8270 E	THIOPHENOL (BENZENETHIOL)	PA
EPA 8270 E - EXTENDED	4-DIMETHYL AMINOAZOBENZENE	PA
EPA 8270 E - EXTENDED	DIBENZ(A,H) ACRIDINE	PA
EPA 8270 E - EXTENDED	INDENE	PA
EPA 8270 E SIM	1,4-DIOXANE (P-DIOXANE /1,4-DIETHYLENEOXIDE)	PA
EPA 8270 E SIM	2-METHYLNAPHTHALENE	PA
EPA 8270 E SIM	ACENAPHTHYLENE	PA
EPA 8270 E SIM	BENZO(A)ANTHRACENE	PA
EPA 8270 E SIM	BENZO(B)FLUORANTHENE	PA
EPA 8270 E SIM	BENZO(K)FLUORANTHENE	PA
EPA 8270 E SIM	DIBENZO(A,H) ANTHRACENE	PA
EPA 8270 E SIM	FLUORENE	PA
EPA 8270 E SIM	NAPHTHALENE	PA
EPA 8270 E SIM	PYRENE	PA
EPA 8290 A	1,2,3,4,6,7,8,9-OCTACHLORODIBENZOFURAN (OCDF)	PA
EPA 8290 A	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN (1,2,3,4,6,7,8-HPCDF)	PA
EPA 8290 A	1,2,3,4,7,8-HEXACHLORODIBENZO-P-DIOXIN (1,2,3,4,7,8-HXCDD)	PA
EPA 8290 A	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN(1,2,3,6,7,8-HXCDD)	PA
EPA 8290 A	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN (1,2,3,7,8,9-HXCDD)	PA
EPA 8290 A	1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN (1,2,3,7,8-PECDD)	PA
EPA 8290 A	2,3,4,6,7,8-HEXACHLORODIBENZOFURAN (2,3,4,6,7,8-HXCDF)	PA
EPA 8290 A	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN (2,3,7,8-TCDD)	PA

Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services

Scope of Accreditation

VELAP Certificate No.: 12574

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

Virginia Laboratory ID: 460182
Effective Date: July 15, 2023
Expiration Date: June 14, 2024

SOLID AND CHEMICAL MATERIALS

METHOD	ANALYTE	PRIMARY
EPA 8290 A	2,3,7,8-TETRACHLORODIBENZOFURAN (2,3,7,8-TCDF)	PA
EPA 8290 A - EXTENDED	TOTAL HEPTACHLORODIBENZOFURAN (HPCDF, TOTAL)	PA
EPA 8290 A - EXTENDED	TOTAL HEXACHLORODIBENZOFURAN (HXCDF, TOTAL)	PA
EPA 8290 A - EXTENDED	TOTAL PENTACHLORODIBENZOFURAN (PECDF, TOTAL)	PA
EPA 8290 A - EXTENDED	TOTAL TETRACHLORODIBENZOFURAN (TCDF, TOTAL)	PA
EPA 8315 A	FORMALDEHYDE	PA
EPA 8330 B	1,3-DINITROBENZENE (1,3-DNB)	PA
EPA 8330 B	2,4-DINITROTOLUENE (2,4-DNT)	PA
EPA 8330 B	2-AMINO-4,6-DINITROTOLUENE (2-AM-DNT)	PA
EPA 8330 B	3,5-DINITROANILINE	PA
EPA 8330 B	4-AMINO-2,6-DINITROTOLUENE (4-AM-DNT)	PA
EPA 8330 B	METHYL-2,4,6-TRINITROPHENYLNITRAMINE (TETRYL)	PA
EPA 8330 B	NITROGLYCERIN	PA
EPA 8330 B	PENTAERYTHRITOLTETRANITRATE (PETN)	PA
EPA 9012 B	CYANIDE, TOTAL	PA
EPA 9050 A	CONDUCTIVITY	PA
EPA 9056 A	FLUORIDE	PA
EPA 9056 A	NITRITE AS N	PA
EPA 9071 B	OIL AND GREASE (AS N-HEXANE EXTRACTABLE MATERIAL (HEM))	PA
SM 2540 G-2011	RESIDUE-TOTAL (TS)	PA
SM 4500-NH3 B-2011	AMMONIA AS N	PA

METHOD	ANALYTE	PRIMARY
EPA 8290 A - EXTENDED	TOTAL HEPTACHLORODIBENZO-P-DIOXIN (HPCDD, TOTAL)	PA
EPA 8290 A - EXTENDED	TOTAL HEXACHLORODIBENZO-P-DIOXIN (HXCDD, TOTAL)	PA
EPA 8290 A - EXTENDED	TOTAL PENTACHLORODIBENZO-P-DIOXIN (PECDD, TOTAL)	PA
EPA 8290 A - EXTENDED	TOTAL TETRACHLORODIBENZO-P-DIOXIN (TCDD, TOTAL)	PA
EPA 8315 A	ACETALDEHYDE	PA
EPA 8330 B	1,3,5-TRINITROBENZENE (1,3,5-TNB)	PA
EPA 8330 B	2,4,6-TRINITROTOLUENE (2,4,6-TNT)	PA
EPA 8330 B	2,6-DINITROTOLUENE (2,6-DNT)	PA
EPA 8330 B	2-NITROTOLUENE	PA
EPA 8330 B	3-NITROTOLUENE	PA
EPA 8330 B	4-NITROTOLUENE	PA
EPA 8330 B	NITROBENZENE	PA
EPA 8330 B	OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE (HMX)	PA
EPA 8330 B	RDX (HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE)	PA
EPA 9045 D	PH	PA
EPA 9056 A	CHLORIDE	PA
EPA 9056 A	NITRATE AS N	PA
EPA 9056 A	SULFATE	PA
EPA 9095 B	FREE LIQUID	PA
SM 2540 G-2011	RESIDUE-VOLATILE	PA
SM 4500-NH3 C-2011	AMMONIA AS N	PA

COPY

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF GENERAL SERVICES
DIVISION OF CONSOLIDATED LABORATORY SERVICES

Certifies that

VA Laboratory ID#: 460175
Eurofins Canton
180 S. Van Buren Avenue
Barberton, OH 44203

Owner: EUROFINS ENVIRONMENT TESTING NORTH CENTRAL, LLC
Operator: PAUL WISE
Responsible Official: RAYMOND RISDEN

Having met the requirements of 1 VAC 30-46 and
having been found compliant with the 2016 TNI Standard approved by The NELAC Institute
is hereby approved as an

Accredited Environmental Laboratory

As more fully described in the attached Scope of Accreditation

Effective Date: **March 29, 2023**
Expiration Date: **September 14, 2023**
Certificate # 12331

Denise M. Toney

Denise M. Toney, Ph.D., HCLD
DGS Deputy Director for Laboratories

Continued accreditation status depends on successful ongoing participation in the program.
Certificate to be conspicuously displayed at the laboratory.
Not valid unless accompanied by a valid Virginia Environmental Laboratory Accreditation Program (VELAP) Scope of Accreditation.
Customers are urged to verify the laboratory's current accreditation status.

Certificate Not Transferable

Surrender Upon Revocation

Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services

COPY

Scope of Accreditation

VELAP Certificate No.: 12331

Eurofins Canton
180 S. Van Buren Avenue
Barberton, OH 44203

Virginia Laboratory ID: 460175
Effective Date: March 29, 2023
Expiration Date: September 14, 2023

NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
ASTM D3987-06	PREP: SHAKE EXTRACTION OF SOLID WASTE WITH WATER	OR
EPA 1311	PREP: TOXICITY CHARACTERISTIC LEACHING PROCEDURE	OR
EPA 1630	METHYL MERCURY	OR
EPA 1664 B	OIL AND GREASE (AS N-HEXANE EXTRACTABLE MATERIAL (HEM))	OR
EPA 180.1 REV 2 (AS HACH 8195)	TURBIDITY	OR
EPA 200.7 REV 4.4	ANTIMONY	OR
EPA 200.7 REV 4.4	BARIUM	OR
EPA 200.7 REV 4.4	BORON	OR
EPA 200.7 REV 4.4	CALCIUM	OR
EPA 200.7 REV 4.4	COBALT	OR
EPA 200.7 REV 4.4	IRON	OR
EPA 200.7 REV 4.4	MAGNESIUM	OR
EPA 200.7 REV 4.4	MOLYBDENUM	OR
EPA 200.7 REV 4.4	POTASSIUM	OR
EPA 200.7 REV 4.4	SILICA AS SIO2	OR
EPA 200.7 REV 4.4	SODIUM	OR
EPA 200.7 REV 4.4	TIN	OR
EPA 200.7 REV 4.4	VANADIUM	OR
EPA 200.8 REV 5.4	ALUMINUM	OR
EPA 200.8 REV 5.4	ARSENIC	OR
EPA 200.8 REV 5.4	BERYLLIUM	OR
EPA 200.8 REV 5.4	CHROMIUM	OR
EPA 200.8 REV 5.4	COPPER	OR
EPA 200.8 REV 5.4	MANGANESE	OR
EPA 200.8 REV 5.4	NICKEL	OR
EPA 200.8 REV 5.4	SILVER	OR
EPA 200.8 REV 5.4	VANADIUM	OR
EPA 200.8 REV 5.4 - EXTENDED	BORON	OR
EPA 200.8 REV 5.4 - EXTENDED	IRON	OR
EPA 200.8 REV 5.4 - EXTENDED	POTASSIUM	OR
EPA 200.8 REV 5.4 - EXTENDED	TIN	OR
EPA 245.1 REV 3	MERCURY	OR
EPA 300.0 REV 2.1	CHLORIDE	OR
EPA 300.0 REV 2.1	NITRATE AS N	OR
EPA 120.1	CONDUCTIVITY	OR
EPA 1312	PREP: SYNTHETIC PRECIPITATION LEACHING PROCEDURE	OR
EPA 1631 E	MERCURY	OR
EPA 1664 B	TOTAL PETROLEUM HYDROCARBONS (TPH) (AS NONPOLAR MATERIAL, SGT-HEM)	OR
EPA 200.7 REV 4.4	ALUMINUM	OR
EPA 200.7 REV 4.4	ARSENIC	OR
EPA 200.7 REV 4.4	BERYLLIUM	OR
EPA 200.7 REV 4.4	CADMIUM	OR
EPA 200.7 REV 4.4	CHROMIUM	OR
EPA 200.7 REV 4.4	COPPER	OR
EPA 200.7 REV 4.4	LEAD	OR
EPA 200.7 REV 4.4	MANGANESE	OR
EPA 200.7 REV 4.4	NICKEL	OR
EPA 200.7 REV 4.4	SELENIUM	OR
EPA 200.7 REV 4.4	SILVER	OR
EPA 200.7 REV 4.4	THALLIUM	OR
EPA 200.7 REV 4.4	TITANIUM	OR
EPA 200.7 REV 4.4	ZINC	OR
EPA 200.8 REV 5.4	ANTIMONY	OR
EPA 200.8 REV 5.4	BARIUM	OR
EPA 200.8 REV 5.4	CADMIUM	OR
EPA 200.8 REV 5.4	COBALT	OR
EPA 200.8 REV 5.4	LEAD	OR
EPA 200.8 REV 5.4	MOLYBDENUM	OR
EPA 200.8 REV 5.4	SELENIUM	OR
EPA 200.8 REV 5.4	THALLIUM	OR
EPA 200.8 REV 5.4	ZINC	OR
EPA 200.8 REV 5.4 - EXTENDED	CALCIUM	OR
EPA 200.8 REV 5.4 - EXTENDED	MAGNESIUM	OR
EPA 200.8 REV 5.4 - EXTENDED	SODIUM	OR
EPA 200.8 REV 5.4 - EXTENDED	TITANIUM	OR
EPA 300.0 REV 2.1	BROMIDE	OR
EPA 300.0 REV 2.1	FLUORIDE	OR
EPA 300.0 REV 2.1	NITRITE AS N	OR



Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services

COPY



Scope of Accreditation

VELAP Certificate No.: 12331

Eurofins Canton
180 S. Van Buren Avenue
Barberton, OH 44203

Virginia Laboratory ID: 460175
Effective Date: March 29, 2023
Expiration Date: September 14, 2023

NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
EPA 300.0 REV 2.1	SULFATE	OR
EPA 3010 A	PREP: ACID DIGESTION OF AQUEOUS SAMPLES AND EXTRACTS FOR TOTAL METALS	OR
EPA 351.2 REV 2	KJELDAHL NITROGEN - TOTAL (TKN)	OR
EPA 3511	PREP: ORGANIC EXTRACTION AND SAMPLE PREPARATION	OR
EPA 3620 C	PREP: FLORISIL CLEANUP	OR
EPA 365.3	PHOSPHORUS, TOTAL	OR
EPA 3660 B	PREP: SULFUR CLEANUP	OR
EPA 410.4 REV 2	CHEMICAL OXYGEN DEMAND (COD)	OR
EPA 5030 C	PREP: PURGE AND TRAP FOR AQUEOUS SAMPLES	OR
EPA 6010 D	ANTIMONY	OR
EPA 6010 D	BARIUM	OR
EPA 6010 D	BORON	OR
EPA 6010 D	CALCIUM	OR
EPA 6010 D	COBALT	OR
EPA 6010 D	IRON	OR
EPA 6010 D	LITHIUM	OR
EPA 6010 D	MANGANESE	OR
EPA 6010 D	NICKEL	OR
EPA 6010 D	SELENIUM	OR
EPA 6010 D	SILVER	OR
EPA 6010 D	STRONTIUM	OR
EPA 6010 D	TIN	OR
EPA 6010 D	VANADIUM	OR
EPA 6010 D - EXTENDED	SILICON	OR
EPA 6020 B	ANTIMONY	OR
EPA 6020 B	BARIUM	OR
EPA 6020 B	CADMIUM	OR
EPA 6020 B	CHROMIUM	OR
EPA 6020 B	COPPER	OR
EPA 6020 B	LEAD	OR
EPA 6020 B	MANGANESE	OR
EPA 6020 B	NICKEL	OR
EPA 6020 B	SELENIUM	OR
EPA 6020 B	SODIUM	OR
EPA 3005 A	PREP: ACID DIGESTION OF WATERS FOR TOTAL RECOVERABLE OR DISSOLVED METALS	OR
EPA 350.1 REV 2	AMMONIA AS N	OR
EPA 3510 C	PREP: LIQUID-LIQUID EXTRACTION	OR
EPA 353.2 REV 2	NITRATE/NITRITE	OR
EPA 365.3	ORTHOPHOSPHATE AS P	OR
EPA 3650 B	PREP: ACID BASE PARTITION CLEANUP	OR
EPA 3665 A	SULFURIC ACID/PERMANGANATE CLEAN-UP	OR
EPA 420.4 REV 1	TOTAL PHENOLICS	OR
EPA 6010 D	ALUMINUM	OR
EPA 6010 D	ARSENIC	OR
EPA 6010 D	BERYLLIUM	OR
EPA 6010 D	CADMIUM	OR
EPA 6010 D	CHROMIUM	OR
EPA 6010 D	COPPER	OR
EPA 6010 D	LEAD	OR
EPA 6010 D	MAGNESIUM	OR
EPA 6010 D	MOLYBDENUM	OR
EPA 6010 D	POTASSIUM	OR
EPA 6010 D	SILICA AS SIO2	OR
EPA 6010 D	SODIUM	OR
EPA 6010 D	THALLIUM	OR
EPA 6010 D	TITANIUM	OR
EPA 6010 D	ZINC	OR
EPA 6020 B	ALUMINUM	OR
EPA 6020 B	ARSENIC	OR
EPA 6020 B	BERYLLIUM	OR
EPA 6020 B	CALCIUM	OR
EPA 6020 B	COBALT	OR
EPA 6020 B	IRON	OR
EPA 6020 B	MAGNESIUM	OR
EPA 6020 B	MOLYBDENUM	OR
EPA 6020 B	POTASSIUM	OR
EPA 6020 B	SILVER	OR

COPY

Scope of Accreditation

VELAP Certificate No.: 12331

Eurofins Canton
180 S. Van Buren Avenue
Barberton, OH 44203

Virginia Laboratory ID: 460175
Effective Date: March 29, 2023
Expiration Date: September 14, 2023

NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
EPA 6020 B	THALLIUM	OR
EPA 6020 B	VANADIUM	OR
EPA 6020 B - EXTENDED	BORON	OR
EPA 6020 B - EXTENDED	STRONTIUM	OR
EPA 608.3	4,4'-DDD	OR
EPA 608.3	4,4'-DDT	OR
EPA 608.3	ALPHA-BHC (ALPHA-HEXACHLOROCYCLOHEXANE)	OR
EPA 608.3	AROCLOR-1016 (PCB-1016)	OR
EPA 608.3	AROCLOR-1232 (PCB-1232)	OR
EPA 608.3	AROCLOR-1248 (PCB-1248)	OR
EPA 608.3	AROCLOR-1260 (PCB-1260)	OR
EPA 608.3	CHLORDANE, TOTAL	OR
EPA 608.3	DIELDRIN	OR
EPA 608.3	ENDOSULFAN II	OR
EPA 608.3	ENDRIN	OR
EPA 608.3	ENDRIN KETONE	OR
EPA 608.3	GAMMA-CHLORDANE (TRANS-CHLORDANE)	OR
EPA 608.3	HEPTACHLOR EPOXIDE	OR
EPA 608.3	MIREX	OR
EPA 624.1	1,1,1,2-TETRACHLOROETHANE	OR
EPA 624.1	1,1,2,2-TETRACHLOROETHANE	OR
EPA 624.1	1,1,2-TRICHLOROETHANE	OR
EPA 624.1	1,1-DICHLOROETHYLENE	OR
EPA 624.1	1,2,3-TRICHLOROBENZENE	OR
EPA 624.1	1,2,3-TRIMETHYLBENZENE	OR
EPA 624.1	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	OR
EPA 624.1	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	OR
EPA 624.1	1,2-DICHLOROPROPANE	OR
EPA 624.1	1,3-BUTADIENE	OR
EPA 624.1	1,3-DICHLOROPROPANE	OR
EPA 624.1	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	OR
EPA 624.1	2,2-DICHLOROPROPANE	OR

METHOD	ANALYTE	PRIMARY
EPA 6020 B	TIN	OR
EPA 6020 B	ZINC	OR
EPA 6020 B - EXTENDED	LITHIUM	OR
EPA 6020 B - EXTENDED	TITANIUM	OR
EPA 608.3	4,4'-DDE	OR
EPA 608.3	ALDRIN	OR
EPA 608.3	ALPHA-CHLORDANE (CIS-CHLORDANE)	OR
EPA 608.3	AROCLOR-1221 (PCB-1221)	OR
EPA 608.3	AROCLOR-1242 (PCB-1242)	OR
EPA 608.3	AROCLOR-1254 (PCB-1254)	OR
EPA 608.3	BETA-BHC (BETA-HEXACHLOROCYCLOHEXANE)	OR
EPA 608.3	DELTA-BHC	OR
EPA 608.3	ENDOSULFAN I	OR
EPA 608.3	ENDOSULFAN SULFATE	OR
EPA 608.3	ENDRIN ALDEHYDE	OR
EPA 608.3	GAMMA-BHC (LINDANE, GAMMA-HEXACHLOROCYCLOHEXANE)	OR
EPA 608.3	HEPTACHLOR	OR
EPA 608.3	METHOXYCHLOR	OR
EPA 608.3	TOXAPHENE (CHLORINATED CAMPHENE)	OR
EPA 624.1	1,1,1-TRICHLOROETHANE	OR
EPA 624.1	1,1,2-TRICHLORO-1,2,2-TRIFLUORO ETHANE (FREON 113)	OR
EPA 624.1	1,1-DICHLOROETHANE	OR
EPA 624.1	1,1-DICHLOROPROPENE	OR
EPA 624.1	1,2,3-TRICHLOROPROPANE	OR
EPA 624.1	1,2,4-TRIMETHYLBENZENE	OR
EPA 624.1	1,2-DIBROMOETHANE (EDB, ETHYLENE DIBROMIDE)	OR
EPA 624.1	1,2-DICHLOROETHANE (ETHYLENE DICHLORIDE)	OR
EPA 624.1	1,3,5-TRIMETHYLBENZENE	OR
EPA 624.1	1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	OR
EPA 624.1	1,3-DICHLOROPROPENE	OR
EPA 624.1	1-BUTANOL (N-BUTANOL, N-BUTYL ALCOHOL)	OR

COPY

Scope of Accreditation

VELAP Certificate No.: 12331

Eurofins Canton
180 S. Van Buren Avenue
Barberton, OH 44203

Virginia Laboratory ID: 460175
Effective Date: March 29, 2023
Expiration Date: September 14, 2023

NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
EPA 624.1	2-BUTANONE (METHYL ETHYL KETONE, MEK)	OR
EPA 624.1	2-CHLOROTOLUENE	OR
EPA 624.1	2-NITROPROPANE	OR
EPA 624.1	4-ISOPROPYLTOLUENE (P-CYMENE, P-ISOPROPYLTOLUENE)	OR
EPA 624.1	ACETONE	OR
EPA 624.1	ACROLEIN (PROPENAL)	OR
EPA 624.1	ALLYL CHLORIDE (3-CHLOROPROPENE)	OR
EPA 624.1	BENZYL CHLORIDE	OR
EPA 624.1	BROMOCHLOROMETHANE	OR
EPA 624.1	BROMOFORM	OR
EPA 624.1	CARBON TETRACHLORIDE	OR
EPA 624.1	CHLORODIBROMOMETHANE	OR
EPA 624.1	CHLOROFORM	OR
EPA 624.1	CIS-1,2-DICHLOROETHYLENE	OR
EPA 624.1	CYCLOHEXANE	OR
EPA 624.1	DI-ISOPROPYLETHER (DIPE, ISOPROPYL ETHER)	OR
EPA 624.1	DICHLORODIFLUOROMETHANE (FREON-12)	OR
EPA 624.1	ETHYL ACETATE	OR
EPA 624.1	ETHYL-T-BUTYLETHER (2-ETHOXY-2-METHYLPROPANE, ETBE)	OR
EPA 624.1	HEXACHLOROBUTADIENE (1,3-HEXACHLOROBUTADIENE)	OR
EPA 624.1	ISOBUTYL ALCOHOL (2-METHYL-1-PROPANOL)	OR
EPA 624.1	M+P-XYLENE	OR
EPA 624.1	METHYL ACETATE	OR
EPA 624.1	METHYL CHLORIDE (CHLOROMETHANE)	OR
EPA 624.1	METHYL TERT-BUTYL ETHER (MTBE)	OR
EPA 624.1	METHYLENE CHLORIDE (DICHLOROMETHANE)	OR
EPA 624.1	N-PROPYLBENZENE	OR
EPA 624.1	O-XYLENE	OR
EPA 624.1	SEC-BUTYLBENZENE	OR
EPA 624.1	T-AMYLMETHYLETHER (TAME)	OR

METHOD	ANALYTE	PRIMARY
EPA 624.1	2-CHLOROETHYL VINYL ETHER	OR
EPA 624.1	2-HEXANONE	OR
EPA 624.1	4-CHLOROTOLUENE	OR
EPA 624.1	4-METHYL-2-PENTANONE (METHYL ISOBUTYL KETONE, MIBK)	OR
EPA 624.1	ACETONITRILE	OR
EPA 624.1	ACRYLONITRILE	OR
EPA 624.1	BENZENE	OR
EPA 624.1	BROMOBENZENE	OR
EPA 624.1	BROMODICHLOROMETHANE	OR
EPA 624.1	CARBON DISULFIDE	OR
EPA 624.1	CHLOROBENZENE	OR
EPA 624.1	CHLOROETHANE (ETHYL CHLORIDE)	OR
EPA 624.1	CHLOROPRENE (2-CHLORO-1,3-BUTADIENE)	OR
EPA 624.1	CIS-1,3-DICHLOROPROPENE	OR
EPA 624.1	CYCLOHEXANONE	OR
EPA 624.1	DIBROMOMETHANE (METHYLENE BROMIDE)	OR
EPA 624.1	DIETHYL ETHER	OR
EPA 624.1	ETHYL METHACRYLATE	OR
EPA 624.1	ETHYLBENZENE	OR
EPA 624.1	IODOMETHANE (METHYL IODIDE)	OR
EPA 624.1	ISOPROPYLBENZENE	OR
EPA 624.1	METHACRYLONITRILE	OR
EPA 624.1	METHYL BROMIDE (BROMOMETHANE)	OR
EPA 624.1	METHYL METHACRYLATE	OR
EPA 624.1	METHYLCYCLOHEXANE	OR
EPA 624.1	N-BUTYLBENZENE	OR
EPA 624.1	NAPHTHALENE	OR
EPA 624.1	PROPIONITRILE (ETHYL CYANIDE)	OR
EPA 624.1	STYRENE	OR
EPA 624.1	TERT-BUTYL ALCOHOL (2-METHYL-2-PROPANOL)	OR

COPY

Scope of Accreditation

VELAP Certificate No.: 12331

Eurofins Canton
180 S. Van Buren Avenue
Barberton, OH 44203

Virginia Laboratory ID: 460175
Effective Date: March 29, 2023
Expiration Date: September 14, 2023

NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
EPA 624.1	TERT-BUTYLBENZENE	OR
EPA 624.1	TETRAHYDROFURAN (THF)	OR
EPA 624.1	TRANS-1,2-DICHLOROETHENE	OR
EPA 624.1	TRANS-1,4-DICHLORO-2-BUTENE	OR
EPA 624.1	TRICHLOROFLUOROMETHANE (FLUOROTRICHLOROMETHANE, FREON 11)	OR
EPA 624.1	VINYL CHLORIDE (CHLOROETHENE)	OR
EPA 624.1 EXTENDED	1,2,4-TRICHLOROBENZENE	OR
EPA 625.1	1,1'-BIPHENYL (BZ-0)	OR
EPA 625.1	1,2,4-TRICHLOROBENZENE	OR
EPA 625.1	2,2'-OXYBIS(1-CHLOROPROPANE)	OR
EPA 625.1	2,4,5-TRICHLOROPHENOL	OR
EPA 625.1	2,4-DICHLOROPHENOL	OR
EPA 625.1	2,4-DINITROPHENOL	OR
EPA 625.1	2,6-DICHLOROPHENOL	OR
EPA 625.1	2-CHLORONAPHTHALENE	OR
EPA 625.1	2-METHYL-4,6-DINITROPHENOL (4,6-DINITRO-2-METHYLPHENOL)	OR
EPA 625.1	2-METHYLPHENOL (O-CRESOL)	OR
EPA 625.1	2-NITROANILINE	OR
EPA 625.1	3+4-METHYLPHENOL (M+P CRESOL)	OR
EPA 625.1	3-NITROANILINE	OR
EPA 625.1	4-CHLORO-3-METHYLPHENOL	OR
EPA 625.1	4-CHLOROPHENYL PHENYLETHER	OR
EPA 625.1	4-NITROANILINE	OR
EPA 625.1	ACENAPHTHENE	OR
EPA 625.1	ACETOPHENONE	OR
EPA 625.1	ANTHRACENE	OR
EPA 625.1	BENZIDINE	OR
EPA 625.1	BENZO(A)PYRENE	OR
EPA 625.1	BENZO(G,H,I)PERYLENE	OR
EPA 625.1	BENZOIC ACID	OR
EPA 625.1	BIS(2-CHLOROETHOXY)METHANE	OR
EPA 625.1	BIS(2-ETHYLHEXYL) PHTHALATE (DI(2-ETHYLHEXYL)PHTHALATE), (DEHP)	OR
EPA 625.1	CARBAZOLE	OR
EPA 624.1	TETRACHLOROETHENE (PERCHLOROETHENE)	OR
EPA 624.1	TOLUENE	OR
EPA 624.1	TRANS-1,3-DICHLOROPROPENE (TRANS-1,3-DICHLOROPROPYLENE)	OR
EPA 624.1	TRICHLOROETHENE (TRICHLOROETHYLENE)	OR
EPA 624.1	VINYL ACETATE	OR
EPA 624.1	XYLENE (TOTAL)	OR
EPA 624.1 EXTENDED	N-HEXANE	OR
EPA 625.1	1,2,4,5-TETRACHLOROBENZENE	OR
EPA 625.1	1,2-DIPHENYLHYDRAZINE	OR
EPA 625.1	2,3,4,6-TETRACHLOROPHENOL	OR
EPA 625.1	2,4,6-TRICHLOROPHENOL	OR
EPA 625.1	2,4-DIMETHYLPHENOL	OR
EPA 625.1	2,4-DINITROTOLUENE (2,4-DNT)	OR
EPA 625.1	2,6-DINITROTOLUENE (2,6-DNT)	OR
EPA 625.1	2-CHLOROPHENOL	OR
EPA 625.1	2-METHYLNAPHTHALENE	OR
EPA 625.1	2-NAPHTHYLAMINE	OR
EPA 625.1	2-NITROPHENOL	OR
EPA 625.1	3,3'-DICHLOROBENZIDINE	OR
EPA 625.1	4-BROMOPHENYL PHENYL ETHER (BDE-3)	OR
EPA 625.1	4-CHLOROANILINE	OR
EPA 625.1	4-DIMETHYL AMINOAZOBENZENE	OR
EPA 625.1	4-NITROPHENOL	OR
EPA 625.1	ACENAPHTHYLENE	OR
EPA 625.1	ANILINE	OR
EPA 625.1	ATRAZINE	OR
EPA 625.1	BENZO(A)ANTHRACENE	OR
EPA 625.1	BENZO(B)FLUORANTHENE	OR
EPA 625.1	BENZO(K)FLUORANTHENE	OR
EPA 625.1	BENZYL ALCOHOL	OR
EPA 625.1	BIS(2-CHLOROETHYL) ETHER	OR
EPA 625.1	BUTYL BENZYL PHTHALATE	OR
EPA 625.1	CHRYSENE	OR

COPY

Scope of Accreditation

VELAP Certificate No.: 12331

Eurofins Canton
180 S. Van Buren Avenue
Barberton, OH 44203

Virginia Laboratory ID: 460175
Effective Date: March 29, 2023
Expiration Date: September 14, 2023

NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
EPA 625.1	DI-N-BUTYL PHTHALATE	OR
EPA 625.1	DIBENZO(A,H) ANTHRACENE	OR
EPA 625.1	DIETHYL PHTHALATE	OR
EPA 625.1	DIMETHYL PHTHALATE	OR
EPA 625.1	FLUORANTHENE	OR
EPA 625.1	HEXACHLOROBENZENE	OR
EPA 625.1	HEXACHLOROCYCLOPENTADIENE	OR
EPA 625.1	INDENO(1,2,3-CD) PYRENE	OR
EPA 625.1	N-DECANE	OR
EPA 625.1	N-NITROSODI-N-PROPYLAMINE	OR
EPA 625.1	N-NITROSODIMETHYLAMINE	OR
EPA 625.1	N-NITROSOPYRROLIDINE	OR
EPA 625.1	NAPHTHALENE	OR
EPA 625.1	PENTACHLORONITROBENZENE	OR
EPA 625.1	PHENANTHRENE	OR
EPA 625.1	PYRENE	OR
EPA 625.1 EXTENDED	4-NITROQUINOLINE-1-OXIDE	OR
EPA 7470 A	MERCURY	OR
EPA 8011	1,2-DIBROMOETHANE (EDB, ETHYLENE DIBROMIDE)	OR
EPA 8015 C	GASOLINE RANGE ORGANICS (GRO)	OR
EPA 8015 D	GASOLINE RANGE ORGANICS (GRO)	OR
EPA 8081 B	4,4'-DDE	OR
EPA 8081 B	ALDRIN	OR
EPA 8081 B	ALPHA-CHLORDANE (CIS-CHLORDANE)	OR
EPA 8081 B	CHLORDANE, TOTAL	OR
EPA 8081 B	DIELDRIN	OR
EPA 8081 B	ENDOSULFAN II	OR
EPA 8081 B	ENDRIN	OR
EPA 8081 B	ENDRIN KETONE	OR
EPA 8081 B	GAMMA-CHLORDANE (TRANS-CHLORDANE)	OR
EPA 8081 B	HEPTACHLOR EPOXIDE	OR
EPA 8081 B	ISODRIN	OR

METHOD	ANALYTE	PRIMARY
EPA 625.1	DI-N-OCTYL PHTHALATE	OR
EPA 625.1	DIBENZOFURAN	OR
EPA 625.1	DIMETHOATE	OR
EPA 625.1	DIPHENYLAMINE	OR
EPA 625.1	FLUORENE	OR
EPA 625.1	HEXACHLOROBUTADIENE (1,3-HEXACHLOROBUTADIENE)	OR
EPA 625.1	HEXACHLOROETHANE	OR
EPA 625.1	ISOPHORONE	OR
EPA 625.1	N-NITROSO-DI-N-BUTYLAMINE	OR
EPA 625.1	N-NITROSODIETHYLAMINE	OR
EPA 625.1	N-NITROSODIPHENYLAMINE	OR
EPA 625.1	N-OCTADECANE	OR
EPA 625.1	NITROBENZENE	OR
EPA 625.1	PENTACHLOROPHENOL	OR
EPA 625.1	PHENOL	OR
EPA 625.1	PYRIDINE	OR
EPA 7196 A	CHROMIUM VI	OR
EPA 8011	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	OR
EPA 8015 C	DIESEL RANGE ORGANICS (DRO)	OR
EPA 8015 D	DIESEL RANGE ORGANICS (DRO)	OR
EPA 8081 B	4,4'-DDD	OR
EPA 8081 B	4,4'-DDT	OR
EPA 8081 B	ALPHA-BHC (ALPHA-HEXACHLOROCYCLOHEXANE)	OR
EPA 8081 B	BETA-BHC (BETA-HEXACHLOROCYCLOHEXANE)	OR
EPA 8081 B	DELTA-BHC	OR
EPA 8081 B	ENDOSULFAN I	OR
EPA 8081 B	ENDOSULFAN SULFATE	OR
EPA 8081 B	ENDRIN ALDEHYDE	OR
EPA 8081 B	GAMMA-BHC (LINDANE, GAMMA-HEXACHLOROCYCLOHEXANE)	OR
EPA 8081 B	HEPTACHLOR	OR
EPA 8081 B	HEXACHLOROBENZENE	OR
EPA 8081 B	METHOXYCHLOR	OR



Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services

COPY



Scope of Accreditation

VELAP Certificate No.: 12331

Eurofins Canton
180 S. Van Buren Avenue
Barberton, OH 44203

Virginia Laboratory ID: 460175
Effective Date: March 29, 2023
Expiration Date: September 14, 2023

NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
EPA 8081 B	TOXAPHENE (CHLORINATED CAMPHENE)	OR
EPA 8081 B - EXTENDED	MIREX	OR
EPA 8082 A	AROCLOR-1221 (PCB-1221)	OR
EPA 8082 A	AROCLOR-1242 (PCB-1242)	OR
EPA 8082 A	AROCLOR-1254 (PCB-1254)	OR
EPA 8082 A - EXTENDED	AROCLOR-1262 (PCB-1262)	OR
EPA 8260 D	1,1,1,2-TETRACHLOROETHANE	OR
EPA 8260 D	1,1,2,2-TETRACHLOROETHANE	OR
EPA 8260 D	1,1,2-TRICHLOROETHANE	OR
EPA 8260 D	1,1-DICHLOROETHYLENE	OR
EPA 8260 D	1,2,3-TRICHLOROBENZENE	OR
EPA 8260 D	1,2,3-TRIMETHYLBENZENE	OR
EPA 8260 D	1,2,4-TRIMETHYLBENZENE	OR
EPA 8260 D	1,2-DIBROMOETHANE (EDB, ETHYLENE DIBROMIDE)	OR
EPA 8260 D	1,2-DICHLOROETHANE (ETHYLENE DICHLORIDE)	OR
EPA 8260 D	1,3,5-TRIMETHYLBENZENE	OR
EPA 8260 D	1,3-DICHLOROPROPANE	OR
EPA 8260 D	1,4-DIOXANE (P-DIOXANE /1,4-DIETHYLENEOXIDE)	OR
EPA 8260 D	1-CHLOROHEXANE	OR
EPA 8260 D	2-BUTANONE (METHYL ETHYL KETONE, MEK)	OR
EPA 8260 D	2-CHLOROTOLUENE	OR
EPA 8260 D	2-NITROPROPANE	OR
EPA 8260 D	4-ISOPROPYLTOLUENE (P-CYMENE, P-ISOPROPYLTOLUENE)	OR
EPA 8260 D	ACETONE	OR
EPA 8260 D	ACROLEIN (PROPENAL)	OR
EPA 8260 D	ALLYL CHLORIDE (3-CHLOROPROPENE)	OR
EPA 8260 D	BENZYL CHLORIDE	OR
EPA 8260 D	BROMOCHLOROMETHANE	OR
EPA 8260 D	BROMOFORM	OR
EPA 8260 D	CARBON TETRACHLORIDE	OR
EPA 8260 D	CHLORODIBROMOMETHANE	OR
EPA 8260 D	CHLOROFORM	OR
EPA 8081 B - EXTENDED	KEPONE	OR
EPA 8082 A	AROCLOR-1016 (PCB-1016)	OR
EPA 8082 A	AROCLOR-1232 (PCB-1232)	OR
EPA 8082 A	AROCLOR-1248 (PCB-1248)	OR
EPA 8082 A	AROCLOR-1260 (PCB-1260)	OR
EPA 8082 A - EXTENDED	AROCLOR-1268 (PCB-1268)	OR
EPA 8260 D	1,1,1-TRICHLOROETHANE	OR
EPA 8260 D	1,1,2-TRICHLORO-1,2,2-TRIFLUORO ETHANE (FREON 113)	OR
EPA 8260 D	1,1-DICHLOROETHANE	OR
EPA 8260 D	1,1-DICHLOROPROPENE	OR
EPA 8260 D	1,2,3-TRICHLOROPROPANE	OR
EPA 8260 D	1,2,4-TRICHLOROBENZENE	OR
EPA 8260 D	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	OR
EPA 8260 D	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	OR
EPA 8260 D	1,2-DICHLOROPROPANE	OR
EPA 8260 D	1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	OR
EPA 8260 D	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	OR
EPA 8260 D	1-BUTANOL (N-BUTANOL, N-BUTYL ALCOHOL)	OR
EPA 8260 D	2,2-DICHLOROPROPANE	OR
EPA 8260 D	2-CHLOROETHYL VINYL ETHER	OR
EPA 8260 D	2-HEXANONE	OR
EPA 8260 D	4-CHLOROTOLUENE	OR
EPA 8260 D	4-METHYL-2-PENTANONE (METHYL ISOBUTYL KETONE, MIBK)	OR
EPA 8260 D	ACETONITRILE	OR
EPA 8260 D	ACRYLONITRILE	OR
EPA 8260 D	BENZENE	OR
EPA 8260 D	BROMOBENZENE	OR
EPA 8260 D	BROMODICHLOROMETHANE	OR
EPA 8260 D	CARBON DISULFIDE	OR
EPA 8260 D	CHLOROBENZENE	OR
EPA 8260 D	CHLOROETHANE (ETHYL CHLORIDE)	OR
EPA 8260 D	CHLOROPRENE (2-CHLORO-1,3-BUTADIENE)	OR



Commonwealth of Virginia COPY
Department of General Services
Division of Consolidated Laboratory Services



Scope of Accreditation

VELAP Certificate No.: 12331

Eurofins Canton
180 S. Van Buren Avenue
Barberton, OH 44203

Virginia Laboratory ID: 460175
Effective Date: March 29, 2023
Expiration Date: September 14, 2023

NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
EPA 8260 D	CIS-1,2-DICHLOROETHYLENE	OR
EPA 8260 D	CYCLOHEXANE	OR
EPA 8260 D	DIBROMOMETHANE (METHYLENE BROMIDE)	OR
EPA 8260 D	DIETHYL ETHER	OR
EPA 8260 D	ETHYL METHACRYLATE	OR
EPA 8260 D	ETHYLBENZENE	OR
EPA 8260 D	IODOMETHANE (METHYL IODIDE)	OR
EPA 8260 D	ISOPROPYLBENZENE	OR
EPA 8260 D	METHACRYLONITRILE	OR
EPA 8260 D	METHYL BROMIDE (BROMOMETHANE)	OR
EPA 8260 D	METHYL METHACRYLATE	OR
EPA 8260 D	METHYLCYCLOHEXANE	OR
EPA 8260 D	N-BUTYLBENZENE	OR
EPA 8260 D	NAPHTHALENE	OR
EPA 8260 D	PENTACHLOROETHANE	OR
EPA 8260 D	SEC-BUTYLBENZENE	OR
EPA 8260 D	T-AMYLMETHYLETHER (TAME)	OR
EPA 8260 D	TERT-BUTYLBENZENE	OR
EPA 8260 D	TOLUENE	OR
EPA 8260 D	TRANS-1,2-DICHLOROETHENE	OR
EPA 8260 D	TRANS-1,4-DICHLORO-2-BUTENE	OR
EPA 8260 D	TRICHLOROFLUOROMETHANE (FLUOROTRICHLOROMETHANE, FREON 11)	OR
EPA 8260 D	VINYL CHLORIDE (CHLOROETHENE)	OR
EPA 8260 D - EXTENDED	1,3,5-TRICHLOROBENZENE	OR
EPA 8260 D - EXTENDED	2-METHYLNAPHTHALENE	OR
EPA 8260 D - EXTENDED	CYCLOHEXANONE	OR
EPA 8260 D - EXTENDED	N-BUTYL-ACETATE	OR
EPA 8260 D - EXTENDED	N-HEXANE	OR
EPA 8270 E	1,1'-BIPHENYL (BZ-0)	OR
EPA 8260 D	CIS-1,3-DICHLOROPROPENE	OR
EPA 8260 D	DIISOPROPYLETHER (DIPE, ISOPROPYL ETHER)	OR
EPA 8260 D	DICHLORODIFLUOROMETHANE (FREON-12)	OR
EPA 8260 D	ETHYL ACETATE	OR
EPA 8260 D	ETHYL-T-BUTYLETHER (2-ETHOXY-2-METHYLPROPANE, ETBE)	OR
EPA 8260 D	HEXACHLOROBUTADIENE (1,3-HEXACHLOROBUTADIENE)	OR
EPA 8260 D	ISOBUTYL ALCOHOL (2-METHYL-1-PROPANOL)	OR
EPA 8260 D	M+P-XYLENE	OR
EPA 8260 D	METHYL ACETATE	OR
EPA 8260 D	METHYL CHLORIDE (CHLOROMETHANE)	OR
EPA 8260 D	METHYL TERT-BUTYL ETHER (MTBE)	OR
EPA 8260 D	METHYLENE CHLORIDE (DICHLOROMETHANE)	OR
EPA 8260 D	N-PROPYLBENZENE	OR
EPA 8260 D	O-XYLENE	OR
EPA 8260 D	PROPIONITRILE (ETHYL CYANIDE)	OR
EPA 8260 D	STYRENE	OR
EPA 8260 D	TERT-BUTYL ALCOHOL (2-METHYL-2-PROPANOL)	OR
EPA 8260 D	TETRACHLOROETHENE (PERCHLOROETHENE)	OR
EPA 8260 D	TOTAL TRIHALOMETHANES (TTHMS)	OR
EPA 8260 D	TRANS-1,3-DICHLOROPROPENE (TRANS-1,3-DICHLOROPROPYLENE)	OR
EPA 8260 D	TRICHLOROETHENE (TRICHLOROETHYLENE)	OR
EPA 8260 D	VINYL ACETATE	OR
EPA 8260 D	XYLENE (TOTAL)	OR
EPA 8260 D - EXTENDED	1,3-BUTADIENE	OR
EPA 8260 D - EXTENDED	CIS & TRANS-1,2-DICHLOROETHENE	OR
EPA 8260 D - EXTENDED	DICHLOROFLUOROMETHANE (FREON 21)	OR
EPA 8260 D - EXTENDED	N-HEPTANE	OR
EPA 8260 D - EXTENDED	TETRAHYDROFURAN (THF)	OR
EPA 8270 E	1,2,4,5-TETRACHLOROBENZENE	OR

COPY

Scope of Accreditation

VELAP Certificate No.: 12331

Eurofins Canton
180 S. Van Buren Avenue
Barberton, OH 44203

Virginia Laboratory ID: 460175
Effective Date: March 29, 2023
Expiration Date: September 14, 2023

NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
EPA 8270 E	1,2,4-TRICHLOROBENZENE	OR
EPA 8270 E	1,2-DIPHENYLHYDRAZINE	OR
EPA 8270 E	1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	OR
EPA 8270 E	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	OR
EPA 8270 E	1,4-DIOXANE (P-DIOXANE /1,4-DIETHYLENEOXIDE)	OR
EPA 8270 E	1,4-PHENYLENEDIAMINE	OR
EPA 8270 E	1-NAPHTHYLAMINE	OR
EPA 8270 E	2,4,5-TRICHLOROPHENOL	OR
EPA 8270 E	2,4-DICHLOROPHENOL	OR
EPA 8270 E	2,4-DINITROPHENOL	OR
EPA 8270 E	2,6-DICHLOROPHENOL	OR
EPA 8270 E	2-ACETYLAMINOFLUORENE	OR
EPA 8270 E	2-CHLORONAPHTHALENE	OR
EPA 8270 E	2-METHYL-4,6-DINITROPHENOL (4,6-DINITRO-2-METHYLPHENOL)	OR
EPA 8270 E	2-METHYLPHENOL (O-CRESOL)	OR
EPA 8270 E	2-NITROANILINE	OR
EPA 8270 E	2-PICOLINE (2-METHYLPYRIDINE)	OR
EPA 8270 E	3,3'-DICHLOROBENZIDINE	OR
EPA 8270 E	3-METHYLCHOLANTHRENE	OR
EPA 8270 E	3-NITROANILINE	OR
EPA 8270 E	4-AMINOBIPHENYL	OR
EPA 8270 E	4-CHLORO-3-METHYLPHENOL	OR
EPA 8270 E	4-CHLOROPHENYL PHENYLETHER	OR
EPA 8270 E	4-NITROANILINE	OR
EPA 8270 E	4-NITROQUINOLINE-1-OXIDE	OR
EPA 8270 E	7,12-DIMETHYLBENZ(A) ANTHRACENE	OR
EPA 8270 E	ACENAPHTHENE	OR
EPA 8270 E	ACETOPHENONE	OR
EPA 8270 E	ANTHRACENE	OR
EPA 8270 E	ATRAZINE	OR
EPA 8270 E	BENZALDEHYDE	OR
EPA 8270 E	BENZO(A)ANTHRACENE	OR
EPA 8270 E	BENZO(B)FLUORANTHENE	OR
EPA 8270 E	BENZO(K)FLUORANTHENE	OR
EPA 8270 E	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	OR
EPA 8270 E	1,3,5-TRINITROBENZENE (1,3,5-TNB)	OR
EPA 8270 E	1,3-DINITROBENZENE (1,3-DNB)	OR
EPA 8270 E	1,4-DINITROBENZENE (1,4-DNB)	OR
EPA 8270 E	1,4-NAPHTHOQUINONE	OR
EPA 8270 E	1-METHYLNAPHTHALENE	OR
EPA 8270 E	2,3,4,6-TETRACHLOROPHENOL	OR
EPA 8270 E	2,4,6-TRICHLOROPHENOL	OR
EPA 8270 E	2,4-DIMETHYLPHENOL	OR
EPA 8270 E	2,4-DINITROTOLUENE (2,4-DNT)	OR
EPA 8270 E	2,6-DINITROTOLUENE (2,6-DNT)	OR
EPA 8270 E	2-CHLOROANILINE	OR
EPA 8270 E	2-CHLOROPHENOL	OR
EPA 8270 E	2-METHYLNAPHTHALENE	OR
EPA 8270 E	2-NAPHTHYLAMINE	OR
EPA 8270 E	2-NITROPHENOL	OR
EPA 8270 E	3+4-METHYLPHENOL (M+P CRESOL)	OR
EPA 8270 E	3,3'-DIMETHYLBENZIDINE	OR
EPA 8270 E	3-METHYLPHENOL (M-CRESOL)	OR
EPA 8270 E	4,4'-METHYLENEBIS-2-CHLOROANILINE	OR
EPA 8270 E	4-BROMOPHENYL PHENYL ETHER (BDE-3)	OR
EPA 8270 E	4-CHLOROANILINE	OR
EPA 8270 E	4-METHYLPHENOL (P-CRESOL)	OR
EPA 8270 E	4-NITROPHENOL	OR
EPA 8270 E	5-NITRO-O-TOLUIDINE	OR
EPA 8270 E	A-A-DIMETHYLPHENETHYLAMINE	OR
EPA 8270 E	ACENAPHTHYLENE	OR
EPA 8270 E	ANILINE	OR
EPA 8270 E	ARAMITE	OR
EPA 8270 E	AZOBENZENE	OR
EPA 8270 E	BENZIDINE	OR
EPA 8270 E	BENZO(A)PYRENE	OR
EPA 8270 E	BENZO(G,H,I)PERYLENE	OR
EPA 8270 E	BENZOIC ACID	OR

COPY

Scope of Accreditation

VELAP Certificate No.: 12331

Eurofins Canton
180 S. Van Buren Avenue
Barberton, OH 44203

Virginia Laboratory ID: 460175
Effective Date: March 29, 2023
Expiration Date: September 14, 2023

NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
EPA 8270 E	BENZYL ALCOHOL	OR
EPA 8270 E	BIS(2-CHLOROETHYL) ETHER	OR
EPA 8270 E	BUTYL BENZYL PHTHALATE	OR
EPA 8270 E	CARBAZOLE	OR
EPA 8270 E	CHRYSENE	OR
EPA 8270 E	DI-N-OCTYL PHTHALATE	OR
EPA 8270 E	DIBENZ(A, J) ACRIDINE	OR
EPA 8270 E	DIBENZOFURAN	OR
EPA 8270 E	DIMETHOATE	OR
EPA 8270 E	DINOSEB (2-SEC-BUTYL-4,6-DINITROPHENOL, DNBP)	OR
EPA 8270 E	DISULFOTON	OR
EPA 8270 E	FAMPHUR	OR
EPA 8270 E	FLUORENE	OR
EPA 8270 E	HEXACHLOROBUTADIENE (1,3-HEXACHLOROBUTADIENE)	OR
EPA 8270 E	HEXACHLOROETHANE	OR
EPA 8270 E	INDENO(1,2,3-CD) PYRENE	OR
EPA 8270 E	ISOPHORONE	OR
EPA 8270 E	METHAPYRILENE	OR
EPA 8270 E	METHYL PARATHION (PARATHION, METHYL)	OR
EPA 8270 E	N-NITROSODI-N-PROPYLAMINE	OR
EPA 8270 E	N-NITROSODIMETHYLAMINE	OR
EPA 8270 E	N-NITROSOMETHYLETHYLAMINE	OR
EPA 8270 E	N-NITROSOPIPERIDINE	OR
EPA 8270 E	NAPHTHALENE	OR
EPA 8270 E	O,O,O-TRIETHYL PHOSPHOROTHIOATE	OR
EPA 8270 E	PARATHION (PARATHION - ETHYL)	OR
EPA 8270 E	PENTACHLORONITROBENZENE	OR
EPA 8270 E	PHENACETIN	OR
EPA 8270 E	PHENOL	OR
EPA 8270 E	PRONAMIDE (KERB)	OR
EPA 8270 E	PYRIDINE	OR
EPA 8270 E	SULFOTEPP (TETRAETHYL DITHIOPYROPHOSPHATE)	OR
EPA 8270 E	THIOPHENOL (BENZENETHIOL)	OR
EPA 8270 E - EXTENDED	1,2,3,5-TETRACHLOROBENZENE	OR
EPA 8270 E	BIS(2-CHLOROETHOXY)METHANE	OR
EPA 8270 E	BIS(2-ETHYLHEXYL) PHTHALATE (DI(2-ETHYLHEXYL)PHTHALATE), (DEHP)	OR
EPA 8270 E	CAPROLACTAM	OR
EPA 8270 E	CHLOROBENZILATE	OR
EPA 8270 E	DI-N-BUTYL PHTHALATE	OR
EPA 8270 E	DIALLATE	OR
EPA 8270 E	DIBENZO(A,H) ANTHRACENE	OR
EPA 8270 E	DIETHYL PHTHALATE	OR
EPA 8270 E	DIMETHYL PHTHALATE	OR
EPA 8270 E	DIPHENYLAMINE	OR
EPA 8270 E	ETHYL METHANESULFONATE	OR
EPA 8270 E	FLUORANTHENE	OR
EPA 8270 E	HEXACHLOROBENZENE	OR
EPA 8270 E	HEXACHLOROCYCLOPENTADIENE	OR
EPA 8270 E	HEXACHLOROPROPENE	OR
EPA 8270 E	ISODRIN	OR
EPA 8270 E	ISOSAFROLE	OR
EPA 8270 E	METHYL METHANESULFONATE	OR
EPA 8270 E	N-NITROSO-DI-N-BUTYLAMINE	OR
EPA 8270 E	N-NITROSODIETHYLAMINE	OR
EPA 8270 E	N-NITROSODIPHENYLAMINE	OR
EPA 8270 E	N-NITROSOMORPHOLINE	OR
EPA 8270 E	N-NITROSOPYRROLIDINE	OR
EPA 8270 E	NITROBENZENE	OR
EPA 8270 E	O-TOLUIDINE (2-METHYLANILINE)	OR
EPA 8270 E	PENTACHLOROBENZENE	OR
EPA 8270 E	PENTACHLOROPHENOL	OR
EPA 8270 E	PHENANTHRENE	OR
EPA 8270 E	PHORATE	OR
EPA 8270 E	PYRENE	OR
EPA 8270 E	SAFROLE	OR
EPA 8270 E	THIONAZIN (ZINOPHOS, DIETHYL-O-2-PYRAZINYL PHOSPHOROTHIONATE)	OR
EPA 8270 E - EXTENDED	1,2,3,4-TETRACHLOROBENZENE	OR
EPA 8270 E - EXTENDED	2,2'-OXYBIS(1-CHLOROPROPANE)	OR

COPY

Scope of Accreditation

VELAP Certificate No.: 12331

Eurofins Canton
180 S. Van Buren Avenue
Barberton, OH 44203

Virginia Laboratory ID: 460175
Effective Date: March 29, 2023
Expiration Date: September 14, 2023

NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
EPA 8270 E - EXTENDED	4-DIMETHYL AMINOAZOBENZENE	OR
EPA 8270 E - EXTENDED	CRESOLS, TOTAL	OR
EPA 8270 E - EXTENDED	DIPHENYL ETHER (DIPHENYL OXIDE)	OR
EPA 8270 E - EXTENDED	INDENE	OR
EPA 8270 E - EXTENDED	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE (ANALYTE PAIR)	OR
EPA 8270 E - EXTENDED	PENTACHLOROETHANE	OR
EPA 8270 E - EXTENDED	TRIBUTYL PHOSPHATE	OR
EPA 9012 B	CYANIDE, AMENABLE	OR
EPA 9030 B	PREP: SULFIDE	OR
EPA 9040 C	PH	OR
EPA 9056 A	BROMIDE	OR
EPA 9056 A	FLUORIDE	OR
EPA 9056 A	NITRITE AS N	OR
EPA 9060 A	TOTAL ORGANIC CARBON (TOC)	OR
EPA 9095 B	FREE LIQUID	OR
KELADA-01	CYANIDE, TOTAL	OR
RSK-175	ETHENE (ETHYLENE)	OR
SM 2320 B-2011	ALKALINITY AS CACO3	OR
SM 2510 B-2011	CONDUCTIVITY	OR
SM 2540 C-2011	RESIDUE-FILTERABLE (TDS)	OR
SM 2540 F-2011	RESIDUE-SETTLEABLE	OR
SM 3500-FE B-2011	IRON	OR
SM 4500-P B 5-2011	PREP: TOTAL PHOSPHORUS	OR
SM 4500-P E-2011	PHOSPHORUS, TOTAL	OR
SM 5210 B-2011	BIOCHEMICAL OXYGEN DEMAND (BOD)	OR
SM 5220 D-2011	CHEMICAL OXYGEN DEMAND (COD)	OR
SM 5540 C-2011	SURFACTANTS - MBAS	OR

METHOD	ANALYTE	PRIMARY
EPA 8270 E - EXTENDED	6-METHYLCHRYSENE	OR
EPA 8270 E - EXTENDED	DIBENZ(A,H) ACRIDINE	OR
EPA 8270 E - EXTENDED	ETHYL METHACRYLATE	OR
EPA 8270 E - EXTENDED	N-DECANE	OR
EPA 8270 E - EXTENDED	N-OCTADECANE	OR
EPA 8270 E - EXTENDED	QUINOLINE	OR
EPA 8315 A	FORMALDEHYDE	OR
EPA 9012 B	CYANIDE, TOTAL	OR
EPA 9034	TOTAL SULFIDES	OR
EPA 9050 A	CONDUCTIVITY	OR
EPA 9056 A	CHLORIDE	OR
EPA 9056 A	NITRATE AS N	OR
EPA 9056 A	SULFATE	OR
EPA 9066	TOTAL PHENOLICS	OR
KELADA-01	CYANIDE, AMENABLE	OR
RSK-175	ETHANE	OR
RSK-175	METHANE	OR
SM 2340 B-2011	TOTAL HARDNESS AS CACO3	OR
SM 2540 B-2011	RESIDUE-TOTAL (TS)	OR
SM 2540 D-2011	RESIDUE-NONFILTERABLE (TSS)	OR
SM 3500-CR B-2011	CHROMIUM VI	OR
SM 4500-NH3 H-2011	AMMONIA AS N	OR
SM 4500-P E-2011	ORTHOPHOSPHATE AS P	OR
SM 4500-$S2^-$ F-2011	SULFIDE	OR
SM 5210 B-2011	CARBONACEOUS BOD (CBOD)	OR
SM 5310 C-2011	TOTAL ORGANIC CARBON (TOC)	OR

SOLID AND CHEMICAL MATERIALS

METHOD	ANALYTE	PRIMARY
ASTM D3987-06	PREP: SHAKE EXTRACTION OF SOLID WASTE WITH WATER	OR
EPA 1312	PREP: SYNTHETIC PRECIPITATION LEACHING PROCEDURE	OR
EPA 1631 E	MERCURY	OR
EPA 3060 A	PREP: HEXAVALENT CHROMIUM	OR
EPA 3546	PREP: MICROWAVE EXTRACTION	OR
EPA 3630 C	PREP: SILICA GEL CLEANUP	OR

METHOD	ANALYTE	PRIMARY
EPA 1311	PREP: TOXICITY CHARACTERISTIC LEACHING PROCEDURE	OR
EPA 1630	METHYL MERCURY	OR
EPA 3050 B	PREP: ACID DIGESTION OF SEDIMENTS, SLUDGES, AND SOILS	OR
EPA 3540 C	PREP: SOXHLET EXTRACTION	OR
EPA 3580 A	PREP: WASTE DILUTION	OR
EPA 3650 B	PREP: ACID BASE PARTITION CLEANUP	OR



Commonwealth of Virginia
Department of General Services
Division of Consolidated Laboratory Services

COPY



Scope of Accreditation

VELAP Certificate No.: 12331

Eurofins Canton
180 S. Van Buren Avenue
Barberton, OH 44203

Virginia Laboratory ID: 460175
Effective Date: March 29, 2023
Expiration Date: September 14, 2023

SOLID AND CHEMICAL MATERIALS

METHOD	ANALYTE	PRIMARY
EPA 3660 B	PREP: SULFUR CLEANUP	OR
EPA 3665 A	SULFURIC ACID/PERMANGANATE CLEAN-UP	OR
EPA 5030 C	PREP: PURGE AND TRAP FOR AQUEOUS SAMPLES	OR
EPA 5035 A	PREP: CLOSED-SYSTEM PURGE AND TRAP AND EXTRACTION	OR
EPA 6010 D	ALUMINUM	OR
EPA 6010 D	ANTIMONY	OR
EPA 6010 D	ARSENIC	OR
EPA 6010 D	BARIUM	OR
EPA 6010 D	BERYLLIUM	OR
EPA 6010 D	BORON	OR
EPA 6010 D	CADMIUM	OR
EPA 6010 D	CALCIUM	OR
EPA 6010 D	CHROMIUM	OR
EPA 6010 D	COBALT	OR
EPA 6010 D	COPPER	OR
EPA 6010 D	IRON	OR
EPA 6010 D	LEAD	OR
EPA 6010 D	LITHIUM	OR
EPA 6010 D	MAGNESIUM	OR
EPA 6010 D	MANGANESE	OR
EPA 6010 D	MOLYBDENUM	OR
EPA 6010 D	NICKEL	OR
EPA 6010 D	POTASSIUM	OR
EPA 6010 D	SELENIUM	OR
EPA 6010 D	SILICA AS SIO2	OR
EPA 6010 D	SILVER	OR
EPA 6010 D	SODIUM	OR
EPA 6010 D	STRONTIUM	OR
EPA 6010 D	THALLIUM	OR
EPA 6010 D	TIN	OR
EPA 6010 D	TITANIUM	OR
EPA 6010 D	VANADIUM	OR
EPA 6010 D	ZINC	OR
EPA 6010 D - EXTENDED	SILICON	OR
EPA 6020 B	ALUMINUM	OR
EPA 6020 B	ANTIMONY	OR
EPA 6020 B	ARSENIC	OR
EPA 6020 B	BARIUM	OR
EPA 6020 B	BERYLLIUM	OR
EPA 6020 B	CADMIUM	OR
EPA 6020 B	CALCIUM	OR
EPA 6020 B	CHROMIUM	OR
EPA 6020 B	COBALT	OR
EPA 6020 B	COPPER	OR
EPA 6020 B	IRON	OR
EPA 6020 B	LEAD	OR
EPA 6020 B	MAGNESIUM	OR
EPA 6020 B	MANGANESE	OR
EPA 6020 B	MOLYBDENUM	OR
EPA 6020 B	NICKEL	OR
EPA 6020 B	POTASSIUM	OR
EPA 6020 B	SELENIUM	OR
EPA 6020 B	SILVER	OR
EPA 6020 B	SODIUM	OR
EPA 6020 B	THALLIUM	OR
EPA 6020 B	TIN	OR
EPA 6020 B	VANADIUM	OR
EPA 6020 B	ZINC	OR
EPA 6020 B - EXTENDED	BORON	OR
EPA 6020 B - EXTENDED	LITHIUM	OR
EPA 6020 B - EXTENDED	STRONTIUM	OR
EPA 6020 B - EXTENDED	TITANIUM	OR
EPA 7196 A	CHROMIUM VI	OR
EPA 7470 A	MERCURY	OR
EPA 7471 B	MERCURY	OR
EPA 8015 C	DIESEL RANGE ORGANICS (DRO)	OR
EPA 8015 C	GASOLINE RANGE ORGANICS (GRO)	OR
EPA 8015 D	DIESEL RANGE ORGANICS (DRO)	OR
EPA 8015 D	GASOLINE RANGE ORGANICS (GRO)	OR
EPA 8081 B	4,4'-DDD	OR
EPA 8081 B	4,4'-DDE	OR
EPA 8081 B	4,4'-DDT	OR
EPA 8081 B	ALDRIN	OR

COPY

Scope of Accreditation

VELAP Certificate No.: 12331

Eurofins Canton
180 S. Van Buren Avenue
Barberton, OH 44203

Virginia Laboratory ID: 460175
Effective Date: March 29, 2023
Expiration Date: September 14, 2023

SOLID AND CHEMICAL MATERIALS

METHOD	ANALYTE	PRIMARY
EPA 8081 B	ALPHA-BHC (ALPHA-HEXACHLOROCYCLOHEXANE)	OR
EPA 8081 B	BETA-BHC (BETA-HEXACHLOROCYCLOHEXANE)	OR
EPA 8081 B	DELTA-BHC	OR
EPA 8081 B	ENDOSULFAN I	OR
EPA 8081 B	ENDOSULFAN SULFATE	OR
EPA 8081 B	ENDRIN ALDEHYDE	OR
EPA 8081 B	GAMMA-BHC (LINDANE, GAMMA-HEXACHLOROCYCLOHEXANE)	OR
EPA 8081 B	HEPTACHLOR	OR
EPA 8081 B	HEXACHLOROBENZENE	OR
EPA 8081 B	METHOXYCHLOR	OR
EPA 8081 B - EXTENDED	KEPONE	OR
EPA 8082 A	AROCLOR-1016 (PCB-1016)	OR
EPA 8082 A	AROCLOR-1232 (PCB-1232)	OR
EPA 8082 A	AROCLOR-1248 (PCB-1248)	OR
EPA 8082 A	AROCLOR-1260 (PCB-1260)	OR
EPA 8082 A - EXTENDED	AROCLOR-1268 (PCB-1268)	OR
EPA 8260 D	1,1,1-TRICHLOROETHANE	OR
EPA 8260 D	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113)	OR
EPA 8260 D	1,1-DICHLOROETHANE	OR
EPA 8260 D	1,1-DICHLOROPROPENE	OR
EPA 8260 D	1,2,3-TRICHLOROPROPANE	OR
EPA 8260 D	1,2,4-TRICHLOROBENZENE	OR
EPA 8260 D	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	OR
EPA 8260 D	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	OR
EPA 8260 D	1,2-DICHLOROPROPANE	OR
EPA 8260 D	1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	OR
EPA 8260 D	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	OR
EPA 8260 D	1-BUTANOL (N-BUTANOL, N-BUTYL ALCOHOL)	OR
EPA 8260 D	2,2-DICHLOROPROPANE	OR
EPA 8260 D	2-CHLOROETHYL VINYL ETHER	OR
EPA 8260 D	2-HEXANONE	OR
EPA 8081 B	ALPHA-CHLORDANE (CIS-CHLORDANE)	OR
EPA 8081 B	CHLORDANE, TOTAL	OR
EPA 8081 B	DIELDRIN	OR
EPA 8081 B	ENDOSULFAN II	OR
EPA 8081 B	ENDRIN	OR
EPA 8081 B	ENDRIN KETONE	OR
EPA 8081 B	GAMMA-CHLORDANE (TRANS-CHLORDANE)	OR
EPA 8081 B	HEPTACHLOR EPOXIDE	OR
EPA 8081 B	ISODRIN	OR
EPA 8081 B	TOXAPHENE (CHLORINATED CAMPHENE)	OR
EPA 8081 B - EXTENDED	MIREX	OR
EPA 8082 A	AROCLOR-1221 (PCB-1221)	OR
EPA 8082 A	AROCLOR-1242 (PCB-1242)	OR
EPA 8082 A	AROCLOR-1254 (PCB-1254)	OR
EPA 8082 A - EXTENDED	AROCLOR-1262 (PCB-1262)	OR
EPA 8260 D	1,1,1,2-TETRACHLOROETHANE	OR
EPA 8260 D	1,1,2,2-TETRACHLOROETHANE	OR
EPA 8260 D	1,1,2-TRICHLOROETHANE	OR
EPA 8260 D	1,1-DICHLOROETHYLENE	OR
EPA 8260 D	1,2,3-TRICHLOROBENZENE	OR
EPA 8260 D	1,2,3-TRIMETHYLBENZENE	OR
EPA 8260 D	1,2,4-TRIMETHYLBENZENE	OR
EPA 8260 D	1,2-DIBROMOETHANE (EDB, ETHYLENE DIBROMIDE)	OR
EPA 8260 D	1,2-DICHLOROETHANE (ETHYLENE DICHLORIDE)	OR
EPA 8260 D	1,3,5-TRIMETHYLBENZENE	OR
EPA 8260 D	1,3-DICHLOROPROPANE	OR
EPA 8260 D	1,4-DIOXANE (P-DIOXANE /1,4-DIETHYLENEOXIDE)	OR
EPA 8260 D	1-CHLOROHEXANE	OR
EPA 8260 D	2-BUTANONE (METHYL ETHYL KETONE, MEK)	OR
EPA 8260 D	2-CHLOROTOLUENE	OR
EPA 8260 D	2-NITROPROPANE	OR

COPY

Scope of Accreditation

VELAP Certificate No.: 12331

Eurofins Canton
180 S. Van Buren Avenue
Barberton, OH 44203

Virginia Laboratory ID: 460175
Effective Date: March 29, 2023
Expiration Date: September 14, 2023

SOLID AND CHEMICAL MATERIALS

METHOD	ANALYTE	PRIMARY
EPA 8260 D	4-CHLOROTOLUENE	OR
EPA 8260 D	4-METHYL-2-PENTANONE (METHYL ISOBUTYL KETONE, MIBK)	OR
EPA 8260 D	ACETONITRILE	OR
EPA 8260 D	ACRYLONITRILE	OR
EPA 8260 D	BENZENE	OR
EPA 8260 D	BROMOBENZENE	OR
EPA 8260 D	BROMODICHLOROMETHANE	OR
EPA 8260 D	CARBON DISULFIDE	OR
EPA 8260 D	CHLOROBENZENE	OR
EPA 8260 D	CHLOROETHANE (ETHYL CHLORIDE)	OR
EPA 8260 D	CHLOROPRENE (2-CHLORO-1,3-BUTADIENE)	OR
EPA 8260 D	CIS-1,3-DICHLOROPROPENE	OR
EPA 8260 D	DI-ISOPROPYLETHER (DIPE, ISOPROPYL ETHER)	OR
EPA 8260 D	DICHLORODIFLUOROMETHANE (FREON-12)	OR
EPA 8260 D	ETHYL ACETATE	OR
EPA 8260 D	ETHYL-T-BUTYLETHER (2-ETHOXY-2-METHYLPROPANE, ETBE)	OR
EPA 8260 D	HEXACHLOROBUTADIENE (1,3-HEXACHLOROBUTADIENE)	OR
EPA 8260 D	ISOBUTYL ALCOHOL (2-METHYL-1-PROPANOL)	OR
EPA 8260 D	M+P-XYLENE	OR
EPA 8260 D	METHYL ACETATE	OR
EPA 8260 D	METHYL CHLORIDE (CHLOROMETHANE)	OR
EPA 8260 D	METHYL TERT-BUTYL ETHER (MTBE)	OR
EPA 8260 D	METHYLENE CHLORIDE (DICHLOROMETHANE)	OR
EPA 8260 D	N-PROPYLBENZENE	OR
EPA 8260 D	O-XYLENE	OR
EPA 8260 D	PROPIONITRILE (ETHYL CYANIDE)	OR
EPA 8260 D	STYRENE	OR
EPA 8260 D	TERT-BUTYL ALCOHOL (2-METHYL-2-PROPANOL)	OR
EPA 8260 D	TETRACHLOROETHENE (PERCHLOROETHENE)	OR
EPA 8260 D	4-ISOPROPYLTOLUENE (P-CYMENE, P-ISOPROPYLTOLUENE)	OR
EPA 8260 D	ACETONE	OR
EPA 8260 D	ACROLEIN (PROPENAL)	OR
EPA 8260 D	ALLYL CHLORIDE (3-CHLOROPROPENE)	OR
EPA 8260 D	BENZYL CHLORIDE	OR
EPA 8260 D	BROMOCHLOROMETHANE	OR
EPA 8260 D	BROMOFORM	OR
EPA 8260 D	CARBON TETRACHLORIDE	OR
EPA 8260 D	CHLORODIBROMOMETHANE	OR
EPA 8260 D	CHLOROFORM	OR
EPA 8260 D	CIS-1,2-DICHLOROETHYLENE	OR
EPA 8260 D	CYCLOHEXANE	OR
EPA 8260 D	DIBROMOMETHANE (METHYLENE BROMIDE)	OR
EPA 8260 D	DIETHYL ETHER	OR
EPA 8260 D	ETHYL METHACRYLATE	OR
EPA 8260 D	ETHYLBENZENE	OR
EPA 8260 D	IODOMETHANE (METHYL IODIDE)	OR
EPA 8260 D	ISOPROPYLBENZENE	OR
EPA 8260 D	METHACRYLONITRILE	OR
EPA 8260 D	METHYL BROMIDE (BROMOMETHANE)	OR
EPA 8260 D	METHYL METHACRYLATE	OR
EPA 8260 D	METHYLCYCLOHEXANE	OR
EPA 8260 D	N-BUTYLBENZENE	OR
EPA 8260 D	NAPHTHALENE	OR
EPA 8260 D	PENTACHLOROETHANE	OR
EPA 8260 D	SEC-BUTYLBENZENE	OR
EPA 8260 D	T-AMYLMETHYLETHER (TAME)	OR
EPA 8260 D	TERT-BUTYLBENZENE	OR
EPA 8260 D	TOLUENE	OR

COPY

Scope of Accreditation

VELAP Certificate No.: 12331

Eurofins Canton
180 S. Van Buren Avenue
Barberton, OH 44203

Virginia Laboratory ID: 460175
Effective Date: March 29, 2023
Expiration Date: September 14, 2023

SOLID AND CHEMICAL MATERIALS

METHOD	ANALYTE	PRIMARY
EPA 8260 D	TOTAL TRIHALOMETHANES (TTHMS)	OR
EPA 8260 D	TRANS-1,3-DICHLOROPROPENE (TRANS-1,3-DICHLOROPROPYLENE)	OR
EPA 8260 D	TRICHLOROETHENE (TRICHLOROETHYLENE)	OR
EPA 8260 D	VINYL ACETATE	OR
EPA 8260 D	XYLENE (TOTAL)	OR
EPA 8260 D - EXTENDED	1,3-BUTADIENE	OR
EPA 8260 D - EXTENDED	CYCLOHEXANONE	OR
EPA 8260 D - EXTENDED	N-BUTYL-ACETATE	OR
EPA 8260 D - EXTENDED	N-HEXANE	OR
EPA 8270 E	1,1'-BIPHENYL (BZ-0)	OR
EPA 8270 E	1,2,4-TRICHLOROBENZENE	OR
EPA 8270 E	1,2-DIPHENYLHYDRAZINE	OR
EPA 8270 E	1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	OR
EPA 8270 E	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	OR
EPA 8270 E	1,4-DIOXANE (P-DIOXANE /1,4-DIETHYLENEOXIDE)	OR
EPA 8270 E	1,4-PHENYLENEDIAMINE	OR
EPA 8270 E	1-NAPHTHYLAMINE	OR
EPA 8270 E	2,4,5-TRICHLOROPHENOL	OR
EPA 8270 E	2,4-DICHLOROPHENOL	OR
EPA 8270 E	2,4-DINITROPHENOL	OR
EPA 8270 E	2,6-DICHLOROPHENOL	OR
EPA 8270 E	2-ACETYLAMINOFLUORENE	OR
EPA 8270 E	2-CHLORONAPHTHALENE	OR
EPA 8270 E	2-METHYL-4,6-DINITROPHENOL (4,6-DINITRO-2-METHYLPHENOL)	OR
EPA 8270 E	2-METHYLPHENOL (O-CRESOL)	OR
EPA 8270 E	2-NITROANILINE	OR
EPA 8270 E	2-PICOLINE (2-METHYLPYRIDINE)	OR
EPA 8270 E	3,3'-DICHLOROBENZIDINE	OR
EPA 8270 E	3-METHYLCHOLANTHRENE	OR
EPA 8270 E	3-NITROANILINE	OR
EPA 8270 E	4-AMINOBIPHENYL	OR
EPA 8260 D	TRANS-1,2-DICHLOROETHENE	OR
EPA 8260 D	TRANS-1,4-DICHLORO-2-BUTENE	OR
EPA 8260 D	TRICHLOROFLUOROMETHANE (FLUOROTRICHLOROMETHANE, FREON 11)	OR
EPA 8260 D	VINYL CHLORIDE (CHLOROETHENE)	OR
EPA 8260 D - EXTENDED	1,3,5-TRICHLOROBENZENE	OR
EPA 8260 D - EXTENDED	CIS & TRANS-1,2-DICHLOROETHENE	OR
EPA 8260 D - EXTENDED	DICHLOROFLUOROMETHANE (FREON 21)	OR
EPA 8260 D - EXTENDED	N-HEPTANE	OR
EPA 8260 D - EXTENDED	TETRAHYDROFURAN (THF)	OR
EPA 8270 E	1,2,4,5-TETRACHLOROBENZENE	OR
EPA 8270 E	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	OR
EPA 8270 E	1,3,5-TRINITROBENZENE (1,3,5-TNB)	OR
EPA 8270 E	1,3-DINITROBENZENE (1,3-DNB)	OR
EPA 8270 E	1,4-DINITROBENZENE (1,4-DNB)	OR
EPA 8270 E	1,4-NAPHTHOQUINONE	OR
EPA 8270 E	1-METHYLNAPHTHALENE	OR
EPA 8270 E	2,3,4,6-TETRACHLOROPHENOL	OR
EPA 8270 E	2,4,6-TRICHLOROPHENOL	OR
EPA 8270 E	2,4-DIMETHYLPHENOL	OR
EPA 8270 E	2,4-DINITROTOLUENE (2,4-DNT)	OR
EPA 8270 E	2,6-DINITROTOLUENE (2,6-DNT)	OR
EPA 8270 E	2-CHLOROANILINE	OR
EPA 8270 E	2-CHLOROPHENOL	OR
EPA 8270 E	2-METHYLNAPHTHALENE	OR
EPA 8270 E	2-NAPHTHYLAMINE	OR
EPA 8270 E	2-NITROPHENOL	OR
EPA 8270 E	3+4-METHYLPHENOL (M+P CRESOL)	OR
EPA 8270 E	3,3'-DIMETHYLBENZIDINE	OR
EPA 8270 E	3-METHYLPHENOL (M-CRESOL)	OR
EPA 8270 E	4,4'-METHYLENEBIS-2-CHLOROANILINE	OR
EPA 8270 E	4-BROMOPHENYL PHENYL ETHER (BDE-3)	OR

COPY

Scope of Accreditation

VELAP Certificate No.: 12331

Eurofins Canton
180 S. Van Buren Avenue
Barberton, OH 44203

Virginia Laboratory ID: 460175
Effective Date: March 29, 2023
Expiration Date: September 14, 2023

SOLID AND CHEMICAL MATERIALS

METHOD	ANALYTE	PRIMARY
EPA 8270 E	4-CHLOROANILINE	OR
EPA 8270 E	4-METHYLPHENOL (P-CRESOL)	OR
EPA 8270 E	4-NITROPHENOL	OR
EPA 8270 E	5-NITRO-O-TOLUIDINE	OR
EPA 8270 E	A-A-DIMETHYLPHENETHYLAMINE	OR
EPA 8270 E	ACENAPHTHYLENE	OR
EPA 8270 E	ANILINE	OR
EPA 8270 E	ARAMITE	OR
EPA 8270 E	AZOBENZENE	OR
EPA 8270 E	BENZIDINE	OR
EPA 8270 E	BENZO(A)PYRENE	OR
EPA 8270 E	BENZO(G,H,I)PERYLENE	OR
EPA 8270 E	BENZOIC ACID	OR
EPA 8270 E	BIS(2-CHLOROETHOXY)METHANE	OR
EPA 8270 E	BIS(2-ETHYLHEXYL) PHTHALATE (DI(2-ETHYLHEXYL)PHTHALATE), (DEHP)	OR
EPA 8270 E	CAPROLACTAM	OR
EPA 8270 E	CHLOROBENZILATE	OR
EPA 8270 E	DI-N-BUTYL PHTHALATE	OR
EPA 8270 E	DIALLATE	OR
EPA 8270 E	DIBENZO(A,H) ANTHRACENE	OR
EPA 8270 E	DIETHYL PHTHALATE	OR
EPA 8270 E	DIMETHYL PHTHALATE	OR
EPA 8270 E	DIPHENYLAMINE	OR
EPA 8270 E	ETHYL METHANESULFONATE	OR
EPA 8270 E	FLUORANTHENE	OR
EPA 8270 E	HEXACHLOROBENZENE	OR
EPA 8270 E	HEXACHLOROCYCLOPENTADIENE	OR
EPA 8270 E	HEXACHLOROPHENE	OR
EPA 8270 E	INDENO(1,2,3-CD) PYRENE	OR
EPA 8270 E	ISOPHORONE	OR
EPA 8270 E	METHAPYRILENE	OR
EPA 8270 E	METHYL PARATHION (PARATHION, METHYL)	OR
EPA 8270 E	N-NITROSODI-N-PROPYLAMINE	OR
EPA 8270 E	N-NITROSODIMETHYLAMINE	OR
EPA 8270 E	4-CHLORO-3-METHYLPHENOL	OR
EPA 8270 E	4-CHLOROPHENYL PHENYLETHER	OR
EPA 8270 E	4-NITROANILINE	OR
EPA 8270 E	4-NITROQUINOLINE-1-OXIDE	OR
EPA 8270 E	7,12-DIMETHYLBENZ(A) ANTHRACENE	OR
EPA 8270 E	ACENAPHTHENE	OR
EPA 8270 E	ACETOPHENONE	OR
EPA 8270 E	ANTHRACENE	OR
EPA 8270 E	ATRAZINE	OR
EPA 8270 E	BENZALDEHYDE	OR
EPA 8270 E	BENZO(A)ANTHRACENE	OR
EPA 8270 E	BENZO(B)FLUORANTHENE	OR
EPA 8270 E	BENZO(K)FLUORANTHENE	OR
EPA 8270 E	BENZYL ALCOHOL	OR
EPA 8270 E	BIS(2-CHLOROETHYL) ETHER	OR
EPA 8270 E	BUTYL BENZYL PHTHALATE	OR
EPA 8270 E	CARBAZOLE	OR
EPA 8270 E	CHRYSENE	OR
EPA 8270 E	DI-N-OCTYL PHTHALATE	OR
EPA 8270 E	DIBENZ(A, J) ACRIDINE	OR
EPA 8270 E	DIBENZOFURAN	OR
EPA 8270 E	DIMETHOATE	OR
EPA 8270 E	DINOSEB (2-SEC-BUTYL-4,6-DINITROPHENOL, DNBP)	OR
EPA 8270 E	DISULFOTON	OR
EPA 8270 E	FAMPHUR	OR
EPA 8270 E	FLUORENE	OR
EPA 8270 E	HEXACHLOROBUTADIENE (1,3-HEXACHLOROBUTADIENE)	OR
EPA 8270 E	HEXACHLOROETHANE	OR
EPA 8270 E	HEXACHLOROPROPENE	OR
EPA 8270 E	ISODRIN	OR
EPA 8270 E	ISOSAFROLE	OR
EPA 8270 E	METHYL METHANESULFONATE	OR
EPA 8270 E	N-NITROSO-DI-N-BUTYLAMINE	OR
EPA 8270 E	N-NITROSODIETHYLAMINE	OR
EPA 8270 E	N-NITROSODIPHENYLAMINE	OR

COPY

Scope of Accreditation

VELAP Certificate No.: 12331

Eurofins Canton
180 S. Van Buren Avenue
Barberton, OH 44203

Virginia Laboratory ID: 460175
Effective Date: March 29, 2023
Expiration Date: September 14, 2023

SOLID AND CHEMICAL MATERIALS

METHOD	ANALYTE	PRIMARY
EPA 8270 E	N-NITROSOMETHYLETHYLAMINE	OR
EPA 8270 E	N-NITROSOPIPERIDINE	OR
EPA 8270 E	NAPHTHALENE	OR
EPA 8270 E	O,O,O-TRIETHYL PHOSPHOROTHIOATE	OR
EPA 8270 E	PARATHION (PARATHION - ETHYL)	OR
EPA 8270 E	PENTACHLORONITROBENZENE	OR
EPA 8270 E	PHENACETIN	OR
EPA 8270 E	PHENOL	OR
EPA 8270 E	PRONAMIDE (KERB)	OR
EPA 8270 E	PYRIDINE	OR
EPA 8270 E	SULFOTEPP (TETRAETHYL DITHIOPYROPHOSPHATE)	OR
EPA 8270 E	THIOPHENOL (BENZENETHIOL)	OR
EPA 8270 E - EXTENDED	1,2,3,5-TETRACHLOROBENZENE	OR
EPA 8270 E - EXTENDED	4-DIMETHYL AMINOAZOBENZENE	OR
EPA 8270 E - EXTENDED	CRESOLS, TOTAL	OR
EPA 8270 E - EXTENDED	DIPHENYL ETHER (DIPHENYL OXIDE)	OR
EPA 8270 E - EXTENDED	INDENE	OR
EPA 8270 E - EXTENDED	N-OCTADECANE	OR
EPA 8270 E - EXTENDED	QUINOLINE	OR
EPA 8315 A	FORMALDEHYDE	OR
EPA 9012 B	CYANIDE, TOTAL	OR
EPA 9034	TOTAL SULFIDES	OR
EPA 9045 D	PH	OR
EPA 9056 A	CHLORIDE	OR
EPA 9056 A	NITRATE AS N	OR
EPA 9056 A	SULFATE	OR
EPA 8270 E	N-NITROSOMORPHOLINE	OR
EPA 8270 E	N-NITROSOPYRROLIDINE	OR
EPA 8270 E	NITROBENZENE	OR
EPA 8270 E	O-TOLUIDINE (2-METHYLANILINE)	OR
EPA 8270 E	PENTACHLOROBENZENE	OR
EPA 8270 E	PENTACHLOROPHENOL	OR
EPA 8270 E	PHENANTHRENE	OR
EPA 8270 E	PHORATE	OR
EPA 8270 E	PYRENE	OR
EPA 8270 E	SAFROLE	OR
EPA 8270 E	THIONAZIN (ZINOPHOS, DIETHYL-O-2-PYRAZINYL PHOSPHOROTHIONATE)	OR
EPA 8270 E - EXTENDED	1,2,3,4-TETRACHLOROBENZENE	OR
EPA 8270 E - EXTENDED	2,2'-OXYBIS(1-CHLOROPROPANE)	OR
EPA 8270 E - EXTENDED	6-METHYLCHRYSENE	OR
EPA 8270 E - EXTENDED	DIBENZ(A,H) ACRIDINE	OR
EPA 8270 E - EXTENDED	ETHYL METHACRYLATE	OR
EPA 8270 E - EXTENDED	N-DECANE	OR
EPA 8270 E - EXTENDED	PENTACHLOROETHANE	OR
EPA 8270 E - EXTENDED	TRIBUTYL PHOSPHATE	OR
EPA 9012 B	CYANIDE, AMENABLE	OR
EPA 9030 B	PREP: SULFIDE	OR
EPA 9040 C	PH	OR
EPA 9056 A	BROMIDE	OR
EPA 9056 A	FLUORIDE	OR
EPA 9056 A	NITRITE AS N	OR
EPA 9095 B	FREE LIQUID	OR

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF GENERAL SERVICES
DIVISION OF CONSOLIDATED LABORATORY SERVICES

Certifies that

VA Laboratory ID#: 460202
GEL Laboratories, LLC

2040 Savage Rd
Charleston, SC 29407

Owner: JAMES M. AND KATHLEEN STELLING
Responsible Official: BRIELLE LUTHMAN

Having met the requirements of 1 VAC 30-46 and
having been found compliant with the 2016 TNI Standard approved by The NELAC Institute
is hereby approved as an

Accredited Environmental Laboratory

As more fully described in the attached Scope of Accreditation

Effective Date: **December 15, 2022**
Expiration Date: **December 14, 2023**
Certificate # 12241

Marilyn Bibbs Freeman, Ph.D., M(ASCP)
DCLS Deputy Director

Continued accreditation status depends on successful ongoing participation in the program.
Certificate to be conspicuously displayed at the laboratory.
Not valid unless accompanied by a valid Virginia Environmental Laboratory Accreditation Program (VELAP) Scope of Accreditation.
Customers are urged to verify the laboratory's current accreditation status.

Certificate Not Transferable

Surrender Upon Revocation

Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services

Scope of Accreditation

VELAP Certificate No.: 12241

GEL Laboratories, LLC
2040 Savage Rd
Charleston, SC 29407

Virginia Laboratory ID: 460202
Effective Date: December 15, 2022
Expiration Date: December 14, 2023

DRINKING WATER

METHOD	ANALYTE	PRIMARY
EPA 00-02	GROSS ALPHA	UT
EPA 200.7 REV 4.4	BARIUM	UT
EPA 200.7 REV 4.4	CADMIUM	UT
EPA 200.7 REV 4.4	CHROMIUM	UT
EPA 200.7 REV 4.4	IRON	UT
EPA 200.7 REV 4.4	NICKEL	UT
EPA 200.7 REV 4.4	SILVER	UT
EPA 200.7 REV 4.4	ZINC	UT
EPA 200.8 REV 5.4	ANTIMONY	UT
EPA 200.8 REV 5.4	BARIUM	UT
EPA 200.8 REV 5.4	CADMIUM	UT
EPA 200.8 REV 5.4	COPPER	UT
EPA 200.8 REV 5.4	LEAD	UT
EPA 200.8 REV 5.4	NICKEL	UT
EPA 200.8 REV 5.4	SILVER	UT
EPA 200.8 REV 5.4	URANIUM	UT
EPA 245.1 REV 3	MERCURY	UT
EPA 300.0 REV 2.1	BROMIDE	UT
EPA 300.0 REV 2.1	FLUORIDE	UT
EPA 300.0 REV 2.1	NITRATE/NITRITE	UT
EPA 300.0 REV 2.1	ORTHOPHOSPHATE AS P	UT
EPA 353.2 REV 2	NITRATE/NITRITE	UT
EPA 504.1 REV 1.1	1,2-DIBROMOETHANE (EDB, ETHYLENE DIBROMIDE)	UT
EPA 900.0	GROSS BETA	UT
EPA 901.1	CESIUM-137	UT
EPA 901.1	IODINE-131	UT
EPA 903.0	TOTAL ALPHA RADIUM	UT
EPA 904.0	RADIUM-228	UT
EPA 905.0	STRONTIUM-90	UT
SM 2120 B-2011	COLOR	UT
SM 2540 C-2011	RESIDUE-FILTERABLE (TDS)	UT

METHOD	ANALYTE	PRIMARY
EPA 200.7 REV 4.4	ALUMINUM	UT
EPA 200.7 REV 4.4	BERYLLIUM	UT
EPA 200.7 REV 4.4	CALCIUM	UT
EPA 200.7 REV 4.4	COPPER	UT
EPA 200.7 REV 4.4	MANGANESE	UT
EPA 200.7 REV 4.4	SILICA AS SIO2	UT
EPA 200.7 REV 4.4	SODIUM	UT
EPA 200.8 REV 5.4	ALUMINUM	UT
EPA 200.8 REV 5.4	ARSENIC	UT
EPA 200.8 REV 5.4	BERYLLIUM	UT
EPA 200.8 REV 5.4	CHROMIUM	UT
EPA 200.8 REV 5.4	IRON	UT
EPA 200.8 REV 5.4	MANGANESE	UT
EPA 200.8 REV 5.4	SELENIUM	UT
EPA 200.8 REV 5.4	THALLIUM	UT
EPA 200.8 REV 5.4	ZINC	UT
EPA 245.2	MERCURY	UT
EPA 300.0 REV 2.1	CHLORIDE	UT
EPA 300.0 REV 2.1	NITRATE AS N	UT
EPA 300.0 REV 2.1	NITRITE AS N	UT
EPA 300.0 REV 2.1	SULFATE	UT
EPA 504.1 REV 1.1	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	UT
EPA 900.0	GROSS ALPHA	UT
EPA 901.1	CESIUM-134	UT
EPA 901.1	GAMMA EMITTERS	UT
EPA 902.0	IODINE-131	UT
EPA 903.1	RADIUM-226	UT
EPA 905.0	STRONTIUM-89	UT
EPA 906.0	TRITIUM	UT
SM 2510 B-2011	CONDUCTIVITY	UT
SM 4500-NO_3^- F-2011	NITRATE AS N	UT

NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
EPA 1020 B	FLASHPOINT	UT
EPA 120.1	CONDUCTIVITY	UT

METHOD	ANALYTE	PRIMARY
EPA 1110 A	CORROSIVITY TOWARD STEEL	UT
EPA 1311	PREP: TOXICITY CHARACTERISTIC LEACHING PROCEDURE	UT



Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services



Scope of Accreditation

VELAP Certificate No.: 12241

GEL Laboratories, LLC
2040 Savage Rd
Charleston, SC 29407

Virginia Laboratory ID: 460202
Effective Date: December 15, 2022
Expiration Date: December 14, 2023

NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY	METHOD	ANALYTE	PRIMARY
EPA 1312	PREP: SYNTHETIC PRECIPITATION LEACHING PROCEDURE	UT	EPA 160.4	RESIDUE-VOLATILE	UT
EPA 1631 E	MERCURY	UT	EPA 1664 A	OIL AND GREASE (AS N-HEXANE EXTRACTABLE MATERIAL (HEM))	UT
EPA 1664 A	TOTAL PETROLEUM HYDROCARBONS (TPH) (AS NONPOLAR MATERIAL, SGT-HEM)	UT	EPA 180.1 REV 2	TURBIDITY	UT
EPA 200.2 REV 2.8	PREP: SAMPLE PREPARATION PROCEDURE FOR SPECTROCHEMICAL DETERMINATION OF TOTAL RECOVERABLE ELEMENTS	UT	EPA 200.7 REV 4.4	ALUMINUM	UT
EPA 200.7 REV 4.4	ANTIMONY	UT	EPA 200.7 REV 4.4	ARSENIC	UT
EPA 200.7 REV 4.4	BARIUM	UT	EPA 200.7 REV 4.4	BERYLLIUM	UT
EPA 200.7 REV 4.4	BORON	UT	EPA 200.7 REV 4.4	CADMIUM	UT
EPA 200.7 REV 4.4	CALCIUM	UT	EPA 200.7 REV 4.4	CHROMIUM	UT
EPA 200.7 REV 4.4	COBALT	UT	EPA 200.7 REV 4.4	COPPER	UT
EPA 200.7 REV 4.4	IRON	UT	EPA 200.7 REV 4.4	LEAD	UT
EPA 200.7 REV 4.4	MAGNESIUM	UT	EPA 200.7 REV 4.4	MANGANESE	UT
EPA 200.7 REV 4.4	MOLYBDENUM	UT	EPA 200.7 REV 4.4	NICKEL	UT
EPA 200.7 REV 4.4	POTASSIUM	UT	EPA 200.7 REV 4.4	SELENIUM	UT
EPA 200.7 REV 4.4	SILICA AS SIO2	UT	EPA 200.7 REV 4.4	SILVER	UT
EPA 200.7 REV 4.4	SODIUM	UT	EPA 200.7 REV 4.4	THALLIUM	UT
EPA 200.7 REV 4.4	TIN	UT	EPA 200.7 REV 4.4	TITANIUM	UT
EPA 200.7 REV 4.4	TOTAL HARDNESS AS CACO3	UT	EPA 200.7 REV 4.4	VANADIUM	UT
EPA 200.7 REV 4.4	ZINC	UT	EPA 200.8 REV 5.4	ALUMINUM	UT
EPA 200.8 REV 5.4	ANTIMONY	UT	EPA 200.8 REV 5.4	ARSENIC	UT
EPA 200.8 REV 5.4	BARIUM	UT	EPA 200.8 REV 5.4	BERYLLIUM	UT
EPA 200.8 REV 5.4	CADMIUM	UT	EPA 200.8 REV 5.4	CHROMIUM	UT
EPA 200.8 REV 5.4	COBALT	UT	EPA 200.8 REV 5.4	COPPER	UT
EPA 200.8 REV 5.4	LEAD	UT	EPA 200.8 REV 5.4	MANGANESE	UT
EPA 200.8 REV 5.4	MOLYBDENUM	UT	EPA 200.8 REV 5.4	NICKEL	UT
EPA 200.8 REV 5.4	SELENIUM	UT	EPA 200.8 REV 5.4	SILVER	UT
EPA 200.8 REV 5.4	THALLIUM	UT	EPA 200.8 REV 5.4	VANADIUM	UT
EPA 200.8 REV 5.4	ZINC	UT	EPA 200.8 REV 5.4 - EXTENDED	MAGNESIUM	UT
EPA 245.1 REV 3	MERCURY	UT	EPA 245.2	MERCURY	UT
EPA 300.0 REV 2.1	BROMIDE	UT	EPA 300.0 REV 2.1	CHLORIDE	UT
EPA 300.0 REV 2.1	FLUORIDE	UT	EPA 300.0 REV 2.1	NITRATE AS N	UT
EPA 300.0 REV 2.1	NITRATE/NITRITE	UT	EPA 300.0 REV 2.1	NITRITE AS N	UT
EPA 300.0 REV 2.1	ORTHOPHOSPHATE AS P	UT	EPA 300.0 REV 2.1	SULFATE	UT



Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services



Scope of Accreditation

VELAP Certificate No.: 12241

GEL Laboratories, LLC
2040 Savage Rd
Charleston, SC 29407

Virginia Laboratory ID: 460202
Effective Date: December 15, 2022
Expiration Date: December 14, 2023

NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
EPA 3005 A	PREP: ACID DIGESTION OF WATERS FOR TOTAL RECOVERABLE OR DISSOLVED METALS	UT
EPA 335.4 REV 1.0	CYANIDE	UT
EPA 351.2 MINUS EPA 350.1	ORGANIC NITROGEN	UT
EPA 3510 C	PREP: LIQUID-LIQUID EXTRACTION	UT
EPA 3535 A	PREP: SOLID PHASE EXTRACTION	UT
EPA 3630 C	PREP: SILICA GEL CLEANUP	UT
EPA 365.4	PHOSPHORUS, TOTAL	UT
EPA 3665 A	SULFURIC ACID/PERMANGANATE CLEAN-UP	UT
EPA 420.4 REV 1	TOTAL PHENOLICS	UT
EPA 6010 D	ALUMINUM	UT
EPA 6010 D	ARSENIC	UT
EPA 6010 D	BERYLLIUM	UT
EPA 6010 D	CADMIUM	UT
EPA 6010 D	CHROMIUM	UT
EPA 6010 D	COPPER	UT
EPA 6010 D	LEAD	UT
EPA 6010 D	MANGANESE	UT
EPA 6010 D	NICKEL	UT
EPA 6010 D	POTASSIUM	UT
EPA 6010 D	SILICA AS SIO2	UT
EPA 6010 D	SODIUM	UT
EPA 6010 D	THALLIUM	UT
EPA 6010 D	TITANIUM	UT
EPA 6010 D	ZINC	UT
EPA 6010 D - EXTENDED	SULFUR	UT
EPA 6020 B	ALUMINUM	UT
EPA 6020 B	ARSENIC	UT
EPA 6020 B	BERYLLIUM	UT
EPA 6020 B	CALCIUM	UT
EPA 6020 B	COBALT	UT
EPA 6020 B	IRON	UT
EPA 6020 B	MAGNESIUM	UT
EPA 6020 B	MOLYBDENUM	UT
EPA 6020 B	POTASSIUM	UT
EPA 6020 B	SILVER	UT
EPA 3010 A	PREP: ACID DIGESTION OF AQUEOUS SAMPLES AND EXTRACTS FOR TOTAL METALS	UT
EPA 350.1 REV 2	AMMONIA AS N	UT
EPA 351.2 REV 2	KJELDAHL NITROGEN - TOTAL (TKN)	UT
EPA 353.2 REV 2	NITRATE/NITRITE	UT
EPA 3620 B	PREP: FLORISIL CLEANUP	UT
EPA 3640 A	PREP: GEL PERMEATION CLEANUP	UT
EPA 3660 B	PREP: SULFUR CLEANUP	UT
EPA 410.4 REV 2	CHEMICAL OXYGEN DEMAND (COD)	UT
EPA 5030 B	PREP: PURGE AND TRAP FOR AQUEOUS SAMPLES	UT
EPA 6010 D	ANTIMONY	UT
EPA 6010 D	BARIUM	UT
EPA 6010 D	BORON	UT
EPA 6010 D	CALCIUM	UT
EPA 6010 D	COBALT	UT
EPA 6010 D	IRON	UT
EPA 6010 D	MAGNESIUM	UT
EPA 6010 D	MOLYBDENUM	UT
EPA 6010 D	PHOSPHORUS, TOTAL	UT
EPA 6010 D	SELENIUM	UT
EPA 6010 D	SILVER	UT
EPA 6010 D	STRONTIUM	UT
EPA 6010 D	TIN	UT
EPA 6010 D	VANADIUM	UT
EPA 6010 D - EXTENDED	SILICON	UT
EPA 6010 D - EXTENDED	URANIUM	UT
EPA 6020 B	ANTIMONY	UT
EPA 6020 B	BARIUM	UT
EPA 6020 B	CADMIUM	UT
EPA 6020 B	CHROMIUM	UT
EPA 6020 B	COPPER	UT
EPA 6020 B	LEAD	UT
EPA 6020 B	MANGANESE	UT
EPA 6020 B	NICKEL	UT
EPA 6020 B	SELENIUM	UT
EPA 6020 B	SODIUM	UT



Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services



Scope of Accreditation

VELAP Certificate No.: 12241

GEL Laboratories, LLC
2040 Savage Rd
Charleston, SC 29407

Virginia Laboratory ID: 460202
Effective Date: December 15, 2022
Expiration Date: December 14, 2023

NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
EPA 6020 B	THALLIUM	UT
EPA 6020 B	VANADIUM	UT
EPA 6020 B - EXTENDED	BISMUTH	UT
EPA 6020 B - EXTENDED	LITHIUM	UT
EPA 6020 B - EXTENDED	THORIUM	UT
EPA 6020 B - EXTENDED	URANIUM	UT
EPA 608.3	4,4'-DDD	UT
EPA 608.3	4,4'-DDT	UT
EPA 608.3	ALPHA-BHC (ALPHA-HEXACHLOROCYCLOHEXANE)	UT
EPA 608.3	AROCLOR-1221 (PCB-1221)	UT
EPA 608.3	AROCLOR-1242 (PCB-1242)	UT
EPA 608.3	AROCLOR-1254 (PCB-1254)	UT
EPA 608.3	BETA-BHC (BETA-HEXACHLOROCYCLOHEXANE)	UT
EPA 608.3	DELTA-BHC	UT
EPA 608.3	ENDOSULFAN I	UT
EPA 608.3	ENDOSULFAN SULFATE	UT
EPA 608.3	ENDRIN ALDEHYDE	UT
EPA 608.3	HEPTACHLOR	UT
EPA 608.3	TOXAPHENE (CHLORINATED CAMPHENE)	UT
EPA 624.1	1,1,2,2-TETRACHLOROETHANE	UT
EPA 624.1	1,1-DICHLOROETHANE	UT
EPA 624.1	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	UT
EPA 624.1	1,2-DICHLOROPROPANE	UT
EPA 624.1	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	UT
EPA 624.1	2-CHLOROETHYL VINYL ETHER	UT
EPA 624.1	ACRYLONITRILE	UT
EPA 624.1	BROMODICHLOROMETHANE	UT
EPA 624.1	CARBON TETRACHLORIDE	UT
EPA 624.1	CHLORODIBROMOMETHANE	UT
EPA 624.1	CHLOROFORM	UT
EPA 624.1	ETHYLBENZENE	UT

METHOD	ANALYTE	PRIMARY
EPA 6020 B	TIN	UT
EPA 6020 B	ZINC	UT
EPA 6020 B - EXTENDED	BORON	UT
EPA 6020 B - EXTENDED	STRONTIUM	UT
EPA 6020 B - EXTENDED	TITANIUM	UT
EPA 6020 B - EXTENDED	ZIRCONIUM	UT
EPA 608.3	4,4'-DDE	UT
EPA 608.3	ALDRIN	UT
EPA 608.3	AROCLOR-1016 (PCB-1016)	UT
EPA 608.3	AROCLOR-1232 (PCB-1232)	UT
EPA 608.3	AROCLOR-1248 (PCB-1248)	UT
EPA 608.3	AROCLOR-1260 (PCB-1260)	UT
EPA 608.3	CHLORDANE, TOTAL	UT
EPA 608.3	DIELDRIN	UT
EPA 608.3	ENDOSULFAN II	UT
EPA 608.3	ENDRIN	UT
EPA 608.3	GAMMA-BHC (LINDANE, GAMMA-HEXACHLOROCYCLOHEXANE)	UT
EPA 608.3	HEPTACHLOR EPOXIDE	UT
EPA 624.1	1,1,1-TRICHLOROETHANE	UT
EPA 624.1	1,1,2-TRICHLOROETHANE	UT
EPA 624.1	1,1-DICHLOROETHYLENE	UT
EPA 624.1	1,2-DICHLOROETHANE (ETHYLENE DICHLORIDE)	UT
EPA 624.1	1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	UT
EPA 624.1	2-BUTANONE (METHYL ETHYL KETONE, MEK)	UT
EPA 624.1	ACROLEIN (PROPENAL)	UT
EPA 624.1	BENZENE	UT
EPA 624.1	BROMOFORM	UT
EPA 624.1	CHLOROBENZENE	UT
EPA 624.1	CHLOROETHANE (ETHYL CHLORIDE)	UT
EPA 624.1	CIS-1,3-DICHLOROPROPENE	UT
EPA 624.1	ISOPROPYL ALCOHOL (2-PROPANOL, ISOPROPANOL)	UT



Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services



Scope of Accreditation

VELAP Certificate No.: 12241

GEL Laboratories, LLC
2040 Savage Rd
Charleston, SC 29407

Virginia Laboratory ID: 460202
Effective Date: December 15, 2022
Expiration Date: December 14, 2023

NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
EPA 624.1	METHYL BROMIDE (BROMOMETHANE)	UT
EPA 624.1	METHYLENE CHLORIDE (DICHLOROMETHANE)	UT
EPA 624.1	TOLUENE	UT
EPA 624.1	TRANS-1,3-DICHLOROPROPENE (TRANS-1,3-DICHLOROPROPYLENE)	UT
EPA 624.1	TRICHLOROFLUOROMETHANE (FLUOROTRICHLOROMETHANE, FREON 11)	UT
EPA 624.1	XYLENE (TOTAL)	UT
EPA 625.1	1,2-DIPHENYLHYDRAZINE	UT
EPA 625.1	2,3-DICHLOROANILINE	UT
EPA 625.1	2,4-DICHLOROPHENOL	UT
EPA 625.1	2,4-DINITROPHENOL	UT
EPA 625.1	2,6-DINITROTOLUENE (2,6-DNT)	UT
EPA 625.1	2-CHLOROPHENOL	UT
EPA 625.1	2-METHYLPHENOL (O-CRESOL)	UT
EPA 625.1	3,3'-DICHLOROBENZIDINE	UT
EPA 625.1	4-CHLORO-3-METHYLPHENOL	UT
EPA 625.1	4-NITROPHENOL	UT
EPA 625.1	ACENAPHTHYLENE	UT
EPA 625.1	ALPHA-TERPINEOL	UT
EPA 625.1	ANTHRACENE	UT
EPA 625.1	BENZO(A)ANTHRACENE	UT
EPA 625.1	BENZO(B)FLUORANTHENE	UT
EPA 625.1	BENZO(K)FLUORANTHENE	UT
EPA 625.1	BIS(2-CHLOROETHYL) ETHER	UT
EPA 625.1	BUTYL BENZYL PHTHALATE	UT
EPA 625.1	CHRYSENE	UT
EPA 625.1	DI-N-OCTYL PHTHALATE	UT
EPA 625.1	DIETHYL PHTHALATE	UT
EPA 625.1	FLUORANTHENE	UT
EPA 625.1	HEXACHLOROBENZENE	UT
EPA 625.1	HEXACHLOROCYCLOPENTADIENE	UT
EPA 625.1	INDENO(1,2,3-CD) PYRENE	UT
EPA 625.1	N-DECANE	UT
EPA 625.1	N-NITROSODIMETHYLAMINE	UT
EPA 624.1	METHYL CHLORIDE (CHLOROMETHANE)	UT
EPA 624.1	TETRACHLOROETHENE (PERCHLOROETHENE)	UT
EPA 624.1	TRANS-1,2-DICHLOROETHENE	UT
EPA 624.1	TRICHLOROETHENE (TRICHLOROETHYLENE)	UT
EPA 624.1	VINYL CHLORIDE (CHLOROETHENE)	UT
EPA 625.1	1,2,4-TRICHLOROBENZENE	UT
EPA 625.1	2,2'-OXYBIS(1-CHLOROPROPANE)	UT
EPA 625.1	2,4,6-TRICHLOROPHENOL	UT
EPA 625.1	2,4-DIMETHYLPHENOL	UT
EPA 625.1	2,4-DINITROTOLUENE (2,4-DNT)	UT
EPA 625.1	2-CHLORONAPHTHALENE	UT
EPA 625.1	2-METHYL-4,6-DINITROPHENOL (4,6-DINITRO-2-METHYLPHENOL)	UT
EPA 625.1	2-NITROPHENOL	UT
EPA 625.1	4-BROMOPHENYL PHENYL ETHER (BDE-3)	UT
EPA 625.1	4-CHLOROPHENYL PHENYLETHER	UT
EPA 625.1	ACENAPHTHENE	UT
EPA 625.1	ACETOPHENONE	UT
EPA 625.1	ANILINE	UT
EPA 625.1	BENZIDINE	UT
EPA 625.1	BENZO(A)PYRENE	UT
EPA 625.1	BENZO(G,H,I)PERYLENE	UT
EPA 625.1	BIS(2-CHLOROETHOXY)METHANE	UT
EPA 625.1	BIS(2-ETHYLHEXYL) PHTHALATE (DI(2-ETHYLHEXYL)PHTHALATE), (DEHP)	UT
EPA 625.1	CARBAZOLE	UT
EPA 625.1	DI-N-BUTYL PHTHALATE	UT
EPA 625.1	DIBENZO(A,H) ANTHRACENE	UT
EPA 625.1	DIMETHYL PHTHALATE	UT
EPA 625.1	FLUORENE	UT
EPA 625.1	HEXACHLOROBUTADIENE (1,3-HEXACHLOROBUTADIENE)	UT
EPA 625.1	HEXACHLOROETHANE	UT
EPA 625.1	ISOPHORONE	UT
EPA 625.1	N-NITROSODI-N-PROPYLAMINE	UT
EPA 625.1	N-NITROSODIPHENYLAMINE	UT



Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services



Scope of Accreditation

VELAP Certificate No.: 12241

GEL Laboratories, LLC
2040 Savage Rd
Charleston, SC 29407

Virginia Laboratory ID: 460202
Effective Date: December 15, 2022
Expiration Date: December 14, 2023

NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
EPA 625.1	N-OCTADECANE	UT
EPA 625.1	NITROBENZENE	UT
EPA 625.1	PHENANTHRENE	UT
EPA 625.1	PYRENE	UT
EPA 625.1 EXTENDED	4-METHYLPHENOL (P-CRESOL)	UT
EPA 7196 A	CHROMIUM VI	UT
EPA 8011	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	UT
EPA 8011 - EXTENDED	1,2,3-TRICHLOROPROPANE	UT
EPA 8015 C	2-BUTANONE (METHYL ETHYL KETONE, MEK)	UT
EPA 8015 C	ETHANOL	UT
EPA 8015 C	ETHYLENE GLYCOL	UT
EPA 8015 C	ISOBUTYL ALCOHOL (2-METHYL-1-PROPANOL)	UT
EPA 8015 C	METHANOL	UT
EPA 8015 D	DIESEL RANGE ORGANICS (DRO)	UT
EPA 8015 D	ETHYL ACETATE	UT
EPA 8015 D	ISOPROPYL ALCOHOL (2-PROPANOL, ISOPROPANOL)	UT
EPA 8015 D - EXTENDED	1-BUTANOL (N-BUTANOL, N-BUTYL ALCOHOL)	UT
EPA 8015 D - EXTENDED	ISOBUTYL ALCOHOL (2-METHYL-1-PROPANOL)	UT
EPA 8081 B	4,4'-DDE	UT
EPA 8081 B	ALDRIN	UT
EPA 8081 B	ALPHA-CHLORDANE (CIS-CHLORDANE)	UT
EPA 8081 B	CHLORDANE, TOTAL	UT
EPA 8081 B	DIELDRIN	UT
EPA 8081 B	ENDOSULFAN II	UT
EPA 8081 B	ENDRIN	UT
EPA 8081 B	ENDRIN KETONE	UT
EPA 8081 B	GAMMA-CHLORDANE (BETA-CHLORDANE, TRANS-CHLORDANE)	UT
EPA 8081 B	HEPTACHLOR EPOXIDE	UT
EPA 625.1	NAPHTHALENE	UT
EPA 625.1	PENTACHLOROPHENOL	UT
EPA 625.1	PHENOL	UT
EPA 625.1	PYRIDINE	UT
EPA 6850	PERCHLORATE	UT
EPA 7470 A	MERCURY	UT
EPA 8011	1,2-DIBROMOETHANE (EDB, ETHYLENE DIBROMIDE)	UT
EPA 8015 C	1-BUTANOL (N-BUTANOL, N-BUTYL ALCOHOL)	UT
EPA 8015 C	DIESEL RANGE ORGANICS (DRO)	UT
EPA 8015 C	ETHYL ACETATE	UT
EPA 8015 C	GASOLINE RANGE ORGANICS (GRO)	UT
EPA 8015 C	ISOPROPYL ALCOHOL (2-PROPANOL, ISOPROPANOL)	UT
EPA 8015 D	2-BUTANONE (METHYL ETHYL KETONE, MEK)	UT
EPA 8015 D	ETHANOL	UT
EPA 8015 D	GASOLINE RANGE ORGANICS (GRO)	UT
EPA 8015 D	METHANOL	UT
EPA 8015 D - EXTENDED	ETHYLENE GLYCOL	UT
EPA 8081 B	4,4'-DDD	UT
EPA 8081 B	4,4'-DDT	UT
EPA 8081 B	ALPHA-BHC (ALPHA-HEXACHLOROCYCLOHEXANE)	UT
EPA 8081 B	BETA-BHC (BETA-HEXACHLOROCYCLOHEXANE)	UT
EPA 8081 B	DELTA-BHC	UT
EPA 8081 B	ENDOSULFAN I	UT
EPA 8081 B	ENDOSULFAN SULFATE	UT
EPA 8081 B	ENDRIN ALDEHYDE	UT
EPA 8081 B	GAMMA-BHC (LINDANE, GAMMA-HEXACHLOROCYCLOHEXANE)	UT
EPA 8081 B	HEPTACHLOR	UT
EPA 8081 B	METHOXYCHLOR	UT



Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services



Scope of Accreditation

VELAP Certificate No.: 12241

GEL Laboratories, LLC
2040 Savage Rd
Charleston, SC 29407

Virginia Laboratory ID: 460202
Effective Date: December 15, 2022
Expiration Date: December 14, 2023

NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
EPA 8081 B	TOXAPHENE (CHLORINATED CAMPHENE)	UT
EPA 8081 B - EXTENDED	2,4'-DDE	UT
EPA 8081 B - EXTENDED	MIREX	UT
EPA 8082 A	AROCLOR-1016 (PCB-1016)	UT
EPA 8082 A	AROCLOR-1232 (PCB-1232)	UT
EPA 8082 A	AROCLOR-1248 (PCB-1248)	UT
EPA 8082 A	AROCLOR-1260 (PCB-1260)	UT
EPA 8082 A - EXTENDED	AROCLOR-1268 (PCB-1268)	UT
EPA 8151 A	2,4-D	UT
EPA 8151 A	DALAPON	UT
EPA 8151 A	DICHLOROPROP (DICHLORPROP)	UT
EPA 8151 A	MCPA	UT
EPA 8151 A	PENTACHLOROPHENOL	UT
EPA 8260 D	1,1,1,2-TETRACHLOROETHANE	UT
EPA 8260 D	1,1,2,2-TETRACHLOROETHANE	UT
EPA 8260 D	1,1,2-TRICHLOROETHANE	UT
EPA 8260 D	1,1-DICHLOROETHYLENE	UT
EPA 8260 D	1,2,3-TRICHLOROBENZENE	UT
EPA 8260 D	1,2,4-TRICHLOROBENZENE	UT
EPA 8260 D	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	UT
EPA 8260 D	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	UT
EPA 8260 D	1,2-DICHLOROPROPANE	UT
EPA 8260 D	1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	UT
EPA 8260 D	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	UT
EPA 8260 D	1-BUTANOL (N-BUTANOL, N-BUTYL ALCOHOL)	UT
EPA 8260 D	2,2-DICHLOROPROPANE	UT
EPA 8260 D	2-CHLOROETHYL VINYL ETHER	UT
EPA 8260 D	2-HEXANONE	UT
EPA 8260 D	2-PENTANONE	UT
EPA 8260 D	4-ISOPROPYLTOLUENE (P-CYMENE, P-ISOPROPYLTOLUENE)	UT
EPA 8260 D	ACETONE	UT
EPA 8260 D	ACROLEIN (PROPENAL)	UT
EPA 8081 B - EXTENDED	2,4'-DDD	UT
EPA 8081 B - EXTENDED	2,4'-DDT	UT
EPA 8081 B - EXTENDED	TRANS-NONACHLOR	UT
EPA 8082 A	AROCLOR-1221 (PCB-1221)	UT
EPA 8082 A	AROCLOR-1242 (PCB-1242)	UT
EPA 8082 A	AROCLOR-1254 (PCB-1254)	UT
EPA 8082 A - EXTENDED	AROCLOR-1262 (PCB-1262)	UT
EPA 8151 A	2,4,5-T	UT
EPA 8151 A	2,4-DB	UT
EPA 8151 A	DICAMBA	UT
EPA 8151 A	DINOSEB (2-SEC-BUTYL-4,6-DINITROPHENOL, DNBP)	UT
EPA 8151 A	MCPP	UT
EPA 8151 A	SILVEX (2,4,5-TP)	UT
EPA 8260 D	1,1,1-TRICHLOROETHANE	UT
EPA 8260 D	1,1,2-TRICHLORO-1,2,2-TRIFLUORO ETHANE (FREON 113)	UT
EPA 8260 D	1,1-DICHLOROETHANE	UT
EPA 8260 D	1,1-DICHLOROPROPENE	UT
EPA 8260 D	1,2,3-TRICHLOROPROPANE	UT
EPA 8260 D	1,2,4-TRIMETHYLBENZENE	UT
EPA 8260 D	1,2-DIBROMOETHANE (EDB, ETHYLENE DIBROMIDE)	UT
EPA 8260 D	1,2-DICHLOROETHANE (ETHYLENE DICHLORIDE)	UT
EPA 8260 D	1,3,5-TRIMETHYLBENZENE	UT
EPA 8260 D	1,3-DICHLOROPROPANE	UT
EPA 8260 D	1,4-DIOXANE (P-DIOXANE /1,4-DIETHYLENEOXIDE)	UT
EPA 8260 D	1-CHLOROHEXANE	UT
EPA 8260 D	2-BUTANONE (METHYL ETHYL KETONE, MEK)	UT
EPA 8260 D	2-CHLOROTOLUENE	UT
EPA 8260 D	2-NITROPROPANE	UT
EPA 8260 D	4-CHLOROTOLUENE	UT
EPA 8260 D	4-METHYL-2-PENTANONE (METHYL ISOBUTYL KETONE, MIBK)	UT
EPA 8260 D	ACETONITRILE	UT



Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services



Scope of Accreditation

VELAP Certificate No.: 12241

GEL Laboratories, LLC
2040 Savage Rd
Charleston, SC 29407

Virginia Laboratory ID: 460202
Effective Date: December 15, 2022
Expiration Date: December 14, 2023

NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
EPA 8260 D	ACRYLONITRILE	UT
EPA 8260 D	BENZENE	UT
EPA 8260 D	BROMOBENZENE	UT
EPA 8260 D	BROMODICHLOROMETHANE	UT
EPA 8260 D	CARBON DISULFIDE	UT
EPA 8260 D	CHLOROBENZENE	UT
EPA 8260 D	CHLOROETHANE (ETHYL CHLORIDE)	UT
EPA 8260 D	CHLOROPRENE (2-CHLORO-1,3-BUTADIENE)	UT
EPA 8260 D	CIS-1,3-DICHLOROPROPENE	UT
EPA 8260 D	CYCLOHEXANE	UT
EPA 8260 D	DIBROMOMETHANE (METHYLENE BROMIDE)	UT
EPA 8260 D	DIETHYL ETHER	UT
EPA 8260 D	ETHYL METHACRYLATE	UT
EPA 8260 D	ETHYLBENZENE	UT
EPA 8260 D	HEXACHLOROBUTADIENE (1,3-HEXACHLOROBUTADIENE)	UT
EPA 8260 D	ISOBUTYL ALCOHOL (2-METHYL-1-PROPANOL)	UT
EPA 8260 D	ISOPROPYLBENZENE	UT
EPA 8260 D	METHACRYLONITRILE	UT
EPA 8260 D	METHYL BROMIDE (BROMOMETHANE)	UT
EPA 8260 D	METHYL METHACRYLATE	UT
EPA 8260 D	METHYLCYCLOHEXANE	UT
EPA 8260 D	N-BUTYLBENZENE	UT
EPA 8260 D	NAPHTHALENE	UT
EPA 8260 D	PENTACHLOROETHANE	UT
EPA 8260 D	SEC-BUTYLBENZENE	UT
EPA 8260 D	T-AMYLMETHYLETHER (TAME)	UT
EPA 8260 D	TERT-BUTYLBENZENE	UT
EPA 8260 D	TOLUENE	UT
EPA 8260 D	TRANS-1,3-DICHLOROPROPENE (TRANS-1,3-DICHLOROPROPYLENE)	UT
EPA 8260 D	TRICHLOROETHENE (TRICHLOROETHYLENE)	UT
EPA 8260 D	ALLYL CHLORIDE (3-CHLOROPROPENE)	UT
EPA 8260 D	BENZYL CHLORIDE	UT
EPA 8260 D	BROMOCHLOROMETHANE	UT
EPA 8260 D	BROMOFORM	UT
EPA 8260 D	CARBON TETRACHLORIDE	UT
EPA 8260 D	CHLORODIBROMOMETHANE	UT
EPA 8260 D	CHLOROFORM	UT
EPA 8260 D	CIS-1,2-DICHLOROETHYLENE	UT
EPA 8260 D	CIS-1,4-DICHLORO-2-BUTENE	UT
EPA 8260 D	DI-ISOPROPYLETHER (DIPE, ISOPROPYL ETHER)	UT
EPA 8260 D	DICHLORODIFLUOROMETHANE (FREON-12)	UT
EPA 8260 D	ETHYL ACETATE	UT
EPA 8260 D	ETHYL-T-BUTYLETHER (2-ETHOXY-2-METHYLPROPANE, ETBE)	UT
EPA 8260 D	ETHYLENE OXIDE	UT
EPA 8260 D	IODOMETHANE (METHYL IODIDE)	UT
EPA 8260 D	ISOPROPYL ALCOHOL (2-PROPANOL, ISOPROPANOL)	UT
EPA 8260 D	M+P-XYLENE	UT
EPA 8260 D	METHYL ACETATE	UT
EPA 8260 D	METHYL CHLORIDE (CHLOROMETHANE)	UT
EPA 8260 D	METHYL TERT-BUTYL ETHER (MTBE)	UT
EPA 8260 D	METHYLENE CHLORIDE (DICHLOROMETHANE)	UT
EPA 8260 D	N-PROPYLBENZENE	UT
EPA 8260 D	O-XYLENE	UT
EPA 8260 D	PROPIONITRILE (ETHYL CYANIDE)	UT
EPA 8260 D	STYRENE	UT
EPA 8260 D	TERT-BUTYL ALCOHOL (2-METHYL-2-PROPANOL)	UT
EPA 8260 D	TETRACHLOROETHENE (PERCHLOROETHENE)	UT
EPA 8260 D	TRANS-1,2-DICHLOROETHENE	UT
EPA 8260 D	TRANS-1,4-DICHLORO-2-BUTENE	UT



Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services



Scope of Accreditation

VELAP Certificate No.: 12241

GEL Laboratories, LLC
2040 Savage Rd
Charleston, SC 29407

Virginia Laboratory ID: 460202
Effective Date: December 15, 2022
Expiration Date: December 14, 2023

NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
EPA 8260 D	TRICHLOROFLUOROMETHANE (FLUOROTRICHLOROMETHANE, FREON 11)	UT
EPA 8260 D	VINYL CHLORIDE (CHLOROETHENE)	UT
EPA 8260 D - EXTENDED	2,2'-OXYBIS(1-CHLOROPROPANE)	UT
EPA 8260 D - EXTENDED	TETRAHYDROFURAN (THF)	UT
EPA 8270 E	1,2,4,5-TETRACHLOROBENZENE	UT
EPA 8270 E	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	UT
EPA 8270 E	1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	UT
EPA 8270 E	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	UT
EPA 8270 E	1,4-DIOXANE (P-DIOXANE /1,4-DIETHYLENEOXIDE)	UT
EPA 8270 E	1,4-PHENYLENEDIAMINE	UT
EPA 8270 E	1-NAPHTHYLAMINE	UT
EPA 8270 E	2,4,5-TRICHLOROPHENOL	UT
EPA 8270 E	2,4-DICHLOROPHENOL	UT
EPA 8270 E	2,4-DINITROPHENOL	UT
EPA 8270 E	2,6-DICHLOROPHENOL	UT
EPA 8270 E	2-ACETYLAMINOFLUORENE	UT
EPA 8270 E	2-CHLOROPHENOL	UT
EPA 8270 E	2-METHYLNAPHTHALENE	UT
EPA 8270 E	2-NAPHTHYLAMINE	UT
EPA 8270 E	2-NITROPHENOL	UT
EPA 8270 E	3,3'-DICHLOROBENZIDINE	UT
EPA 8270 E	3,3'-DIMETHYLBENZIDINE	UT
EPA 8270 E	3-METHYLPHENOL (M-CRESOL)	UT
EPA 8270 E	4,4'-METHYLENEBIS-2-CHLOROANILINE	UT
EPA 8270 E	4-BROMOPHENYL PHENYL ETHER (BDE-3)	UT
EPA 8270 E	4-CHLOROANILINE	UT
EPA 8270 E	4-METHYLPHENOL (P-CRESOL)	UT
EPA 8270 E	4-NITROPHENOL	UT
EPA 8270 E	5-NITRO-O-TOLUIDINE	UT
EPA 8270 E	A-A-DIMETHYLPHENETHYLAMINE	UT
EPA 8270 E	ACENAPHTHYLENE	UT
EPA 8270 E	ANILINE	UT
EPA 8260 D	VINYL ACETATE	UT
EPA 8260 D	XYLENE (TOTAL)	UT
EPA 8260 D - EXTENDED	CYCLOHEXANONE	UT
EPA 8270 E	1,1'-BIPHENYL (BZ-0)	UT
EPA 8270 E	1,2,4-TRICHLOROBENZENE	UT
EPA 8270 E	1,3,5-TRINITROBENZENE (1,3,5-TNB)	UT
EPA 8270 E	1,3-DINITROBENZENE (1,3-DNB)	UT
EPA 8270 E	1,4-DINITROBENZENE (1,4-DNB)	UT
EPA 8270 E	1,4-NAPHTHOQUINONE	UT
EPA 8270 E	1-METHYLNAPHTHALENE	UT
EPA 8270 E	2,3,4,6-TETRACHLOROPHENOL	UT
EPA 8270 E	2,4,6-TRICHLOROPHENOL	UT
EPA 8270 E	2,4-DIMETHYLPHENOL	UT
EPA 8270 E	2,4-DINITROTOLUENE (2,4-DNT)	UT
EPA 8270 E	2,6-DINITROTOLUENE (2,6-DNT)	UT
EPA 8270 E	2-CHLORONAPHTHALENE	UT
EPA 8270 E	2-METHYL-4,6-DINITROPHENOL (4,6-DINITRO-2-METHYLPHENOL)	UT
EPA 8270 E	2-METHYLPHENOL (O-CRESOL)	UT
EPA 8270 E	2-NITROANILINE	UT
EPA 8270 E	2-PICOLINE (2-METHYLPYRIDINE)	UT
EPA 8270 E	3,3'-DIMETHOXYBENZIDINE	UT
EPA 8270 E	3-METHYLCHOLANTHRENE	UT
EPA 8270 E	3-NITROANILINE	UT
EPA 8270 E	4-AMINOBIPHENYL	UT
EPA 8270 E	4-CHLORO-3-METHYLPHENOL	UT
EPA 8270 E	4-CHLOROPHENYL PHENYLETHER	UT
EPA 8270 E	4-NITROANILINE	UT
EPA 8270 E	4-NITROQUINOLINE-1-OXIDE	UT
EPA 8270 E	7,12-DIMETHYLBENZ(A) ANTHRACENE	UT
EPA 8270 E	ACENAPHTHENE	UT
EPA 8270 E	ACETOPHENONE	UT
EPA 8270 E	ANTHRACENE	UT

Scope of Accreditation

VELAP Certificate No.: 12241

GEL Laboratories, LLC
2040 Savage Rd
Charleston, SC 29407

Virginia Laboratory ID: 460202
Effective Date: December 15, 2022
Expiration Date: December 14, 2023

NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY	METHOD	ANALYTE	PRIMARY
EPA 8270 E	ARAMITE	UT	EPA 8270 E	ATRAZINE	UT
EPA 8270 E	AZOBENZENE	UT	EPA 8270 E	BENZALDEHYDE	UT
EPA 8270 E	BENZIDINE	UT	EPA 8270 E	BENZO(A)ANTHRACENE	UT
EPA 8270 E	BENZO(A)PYRENE	UT	EPA 8270 E	BENZO(B)FLUORANTHENE	UT
EPA 8270 E	BENZO(G,H,I)PERYLENE	UT	EPA 8270 E	BENZO(K)FLUORANTHENE	UT
EPA 8270 E	BENZOIC ACID	UT	EPA 8270 E	BENZYL ALCOHOL	UT
EPA 8270 E	BIS(2-CHLOROETHOXY)METHANE	UT	EPA 8270 E	BIS(2-CHLOROETHYL) ETHER	UT
EPA 8270 E	BIS(2-ETHYLHEXYL) PHTHALATE (DI(2-ETHYLHEXYL)PHTHALATE), (DEHP)	UT	EPA 8270 E	BUTYL BENZYL PHTHALATE	UT
EPA 8270 E	CAPROLACTAM	UT	EPA 8270 E	CARBAZOLE	UT
EPA 8270 E	CHLOROBENZILATE	UT	EPA 8270 E	CHRYSENE	UT
EPA 8270 E	DI-N-BUTYL PHTHALATE	UT	EPA 8270 E	DI-N-OCTYL PHTHALATE	UT
EPA 8270 E	DIALLATE	UT	EPA 8270 E	DIBENZO(A,E) PYRENE	UT
EPA 8270 E	DIBENZO(A,H) ANTHRACENE	UT	EPA 8270 E	DIBENZOFURAN	UT
EPA 8270 E	DIETHYL PHTHALATE	UT	EPA 8270 E	DIMETHOATE	UT
EPA 8270 E	DIMETHYL PHTHALATE	UT	EPA 8270 E	DINOSEB (2-SEC-BUTYL-4,6-DINITROPHENOL, DNBP)	UT
EPA 8270 E	DIPHENYLAMINE	UT	EPA 8270 E	DISULFOTON	UT
EPA 8270 E	ETHYL METHANESULFONATE	UT	EPA 8270 E	FAMPHUR	UT
EPA 8270 E	FLUORANTHENE	UT	EPA 8270 E	FLUORENE	UT
EPA 8270 E	HEXACHLOROBENZENE	UT	EPA 8270 E	HEXACHLOROBUTADIENE (1,3-HEXACHLOROBUTADIENE)	UT
EPA 8270 E	HEXACHLOROCYCLOPENTADIENE	UT	EPA 8270 E	HEXACHLOROETHANE	UT
EPA 8270 E	HEXACHLOROPHENE	UT	EPA 8270 E	HEXACHLOROPROPENE	UT
EPA 8270 E	INDENO(1,2,3-CD) PYRENE	UT	EPA 8270 E	ISODRIN	UT
EPA 8270 E	ISOPHORONE	UT	EPA 8270 E	ISOSAFROLE	UT
EPA 8270 E	KEPONE	UT	EPA 8270 E	METHAPYRILENE	UT
EPA 8270 E	METHYL METHANESULFONATE	UT	EPA 8270 E	METHYL PARATHION (PARATHION, METHYL)	UT
EPA 8270 E	N-NITROSO-DI-N-BUTYLAMINE	UT	EPA 8270 E	N-NITROSODI-N-PROPYLAMINE	UT
EPA 8270 E	N-NITROSODIETHYLAMINE	UT	EPA 8270 E	N-NITROSODIMETHYLAMINE	UT
EPA 8270 E	N-NITROSODIPHENYLAMINE	UT	EPA 8270 E	N-NITROSOMETHYLETHYLAMINE	UT
EPA 8270 E	N-NITROSOMORPHOLINE	UT	EPA 8270 E	N-NITROSOPIPERIDINE	UT
EPA 8270 E	N-NITROSOPYRROLIDINE	UT	EPA 8270 E	NAPHTHALENE	UT
EPA 8270 E	NITROBENZENE	UT	EPA 8270 E	O,O,O-TRIETHYL PHOSPHOROTHIOATE	UT
EPA 8270 E	O-TOLUIDINE (2-METHYLANILINE)	UT	EPA 8270 E	P-BENZOQUINONE (QUINONE)	UT
EPA 8270 E	P-CRESIDINE	UT	EPA 8270 E	PARATHION (PARATHION - ETHYL)	UT
EPA 8270 E	PENTACHLOROBENZENE	UT	EPA 8270 E	PENTACHLORONITROBENZENE	UT



Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services



Scope of Accreditation

VELAP Certificate No.: 12241

GEL Laboratories, LLC
2040 Savage Rd
Charleston, SC 29407

Virginia Laboratory ID: 460202
Effective Date: December 15, 2022
Expiration Date: December 14, 2023

NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
EPA 8270 E	PENTACHLOROPHENOL	UT
EPA 8270 E	PHENANTHRENE	UT
EPA 8270 E	PHORATE	UT
EPA 8270 E	PRONAMIDE (KERB)	UT
EPA 8270 E	PYRIDINE	UT
EPA 8270 E	SULFOTEPP (TETRAETHYL DITHIOPYROPHOSPHATE)	UT
EPA 8270 E - EXTENDED	2,2'-OXYBIS(1-CHLOROPROPANE)	UT
EPA 8270 E - EXTENDED	4-DIMETHYL AMINOAZOBENZENE	UT
EPA 8270 E - EXTENDED	N-DECANE	UT
EPA 8270 E - EXTENDED	PENTACHLOROETHANE	UT
EPA 8270 E - EXTENDED	TRIBUTYL PHOSPHATE	UT
EPA 8270 E SIM	1-METHYLNAPHTHALENE	UT
EPA 8270 E SIM	ACENAPHTHENE	UT
EPA 8270 E SIM	ANTHRACENE	UT
EPA 8270 E SIM	BENZO(A)PYRENE	UT
EPA 8270 E SIM	BENZO(G,H,I)PERYLENE	UT
EPA 8270 E SIM	CHRYSENE	UT
EPA 8270 E SIM	FLUORANTHENE	UT
EPA 8270 E SIM	INDENO(1,2,3-CD) PYRENE	UT
EPA 8270 E SIM	PHENANTHRENE	UT
EPA 8330 A	1,3,5-TRINITROBENZENE (1,3,5-TNB)	UT
EPA 8330 A	2,4,6-TRINITROTOLUENE (2,4,6-TNT)	UT
EPA 8330 A	2,6-DINITROTOLUENE (2,6-DNT)	UT
EPA 8330 A	2-NITROTOLUENE	UT
EPA 8330 A	4-AMINO-2,6-DINITROTOLUENE (4-AM-DNT)	UT
EPA 8330 A	METHYL-2,4,6-TRINITROPHENYLNITRAMINE (TETRYL)	UT
EPA 8330 A	NITROGLYCERIN	UT
EPA 8330 A	PENTAERYTHRITOLTETRANITRATE (PETN)	UT
EPA 8330 B	1,3,5-TRINITROBENZENE (1,3,5-TNB)	UT
EPA 8330 B	2,4,6-TRINITROTOLUENE (2,4,6-TNT)	UT
EPA 8330 B	2,6-DINITROTOLUENE (2,6-DNT)	UT
EPA 8330 B	2-NITROTOLUENE	UT
EPA 8270 E	PHENACETIN	UT
EPA 8270 E	PHENOL	UT
EPA 8270 E	PHTHALIC ANHYDRIDE	UT
EPA 8270 E	PYRENE	UT
EPA 8270 E	SAFROLE	UT
EPA 8270 E	THIONAZIN (ZINOPHOS, DIETHYL-O-2-PYRAZINYL PHOSPHOROTHIONATE)	UT
EPA 8270 E - EXTENDED	2,3-DICHLOROANILINE	UT
EPA 8270 E - EXTENDED	ALPHA-TERPINEOL	UT
EPA 8270 E - EXTENDED	N-OCTADECANE	UT
EPA 8270 E - EXTENDED	PROMETON	UT
EPA 8270 E SIM	1,4-DIOXANE (P-DIOXANE /1,4-DIETHYLENEOXIDE)	UT
EPA 8270 E SIM	2-METHYLNAPHTHALENE	UT
EPA 8270 E SIM	ACENAPHTHYLENE	UT
EPA 8270 E SIM	BENZO(A)ANTHRACENE	UT
EPA 8270 E SIM	BENZO(B)FLUORANTHENE	UT
EPA 8270 E SIM	BENZO(K)FLUORANTHENE	UT
EPA 8270 E SIM	DIBENZO(A,H) ANTHRACENE	UT
EPA 8270 E SIM	FLUORENE	UT
EPA 8270 E SIM	NAPHTHALENE	UT
EPA 8270 E SIM	PYRENE	UT
EPA 8330 A	1,3-DINITROBENZENE (1,3-DNB)	UT
EPA 8330 A	2,4-DINITROTOLUENE (2,4-DNT)	UT
EPA 8330 A	2-AMINO-4,6-DINITROTOLUENE (2-AM-DNT)	UT
EPA 8330 A	3-NITROTOLUENE	UT
EPA 8330 A	4-NITROTOLUENE	UT
EPA 8330 A	NITROBENZENE	UT
EPA 8330 A	OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE (HMX)	UT
EPA 8330 A	RDX (HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE)	UT
EPA 8330 B	1,3-DINITROBENZENE (1,3-DNB)	UT
EPA 8330 B	2,4-DINITROTOLUENE (2,4-DNT)	UT
EPA 8330 B	2-AMINO-4,6-DINITROTOLUENE (2-AM-DNT)	UT



Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services



Scope of Accreditation

VELAP Certificate No.: 12241

GEL Laboratories, LLC
2040 Savage Rd
Charleston, SC 29407

Virginia Laboratory ID: 460202
Effective Date: December 15, 2022
Expiration Date: December 14, 2023

NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
EPA 8330 B	3,5-DINITROANILINE	UT
EPA 8330 B	4-AMINO-2,6-DINITROTOLUENE (4-AM-DNT)	UT
EPA 8330 B	METHYL-2,4,6-TRINITROPHENYLNITRAMINE (TETRYL)	UT
EPA 8330 B	NITROGLYCERIN	UT
EPA 8330 B	PENTAERYTHRITOLTETRANITRATE (PETN)	UT
EPA 900.0	GROSS ALPHA	UT
EPA 901.1	GAMMA EMITTERS	UT
EPA 9012 B	CYANIDE, AMENABLE	UT
EPA 9020 B	TOTAL ORGANIC HALIDES (TOX)	UT
EPA 903.1	RADIUM-226	UT
EPA 9034	TOTAL SULFIDES	UT
EPA 9040 C	PH	UT
EPA 905.0	STRONTIUM-90	UT
EPA 9056 A	BROMIDE	UT
EPA 9056 A	FLUORIDE	UT
EPA 9056 A	NITRITE AS N	UT
EPA 9056 A	SULFATE	UT
EPA 906.0	TRITIUM	UT
EPA 9066	TOTAL PHENOLICS	UT
EPA 9310	GROSS BETA	UT
EPA 9320	RADIUM-228	UT
RSK-175	ETHENE (ETHYLENE)	UT
SM 2120 B-2011	COLOR	UT
SM 2310 B-2011	ACIDITY, AS CACO3	UT
SM 2340 B-2011	TOTAL HARDNESS AS CACO3	UT
SM 2510 B-2011	CONDUCTIVITY	UT
SM 2540 C-2011	RESIDUE-FILTERABLE (TDS)	UT
SM 3500-CR B-2011	CHROMIUM VI	UT
SM 4500-CN^- G-2011	CYANIDE, AMENABLE	UT
SM 4500-NH3 H-2011	AMMONIA AS N	UT
SM 4500-$S2^-$ D-2011	SULFIDE	UT
SM 5210 B-2011	CARBONACEOUS BOD (CBOD)	UT
SM 5540 C-2011	SURFACTANTS - MBAS	UT

METHOD	ANALYTE	PRIMARY
EPA 8330 B	3-NITROTOLUENE	UT
EPA 8330 B	4-NITROTOLUENE	UT
EPA 8330 B	NITROBENZENE	UT
EPA 8330 B	OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE (HMX)	UT
EPA 8330 B	RDX (HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE)	UT
EPA 900.0	GROSS BETA	UT
EPA 9010 C	PREP: CYANIDE DISTILLATION	UT
EPA 9012 B	CYANIDE, TOTAL	UT
EPA 903.0	TOTAL ALPHA RADIUM	UT
EPA 9030 B	PREP: SULFIDE	UT
EPA 904.0	RADIUM-228	UT
EPA 905.0	STRONTIUM-89	UT
EPA 9050 A	CONDUCTIVITY	UT
EPA 9056 A	CHLORIDE	UT
EPA 9056 A	NITRATE AS N	UT
EPA 9056 A	ORTHOPHOSPHATE AS P	UT
EPA 9056 A - EXTENDED	NITRATE/NITRITE	UT
EPA 9060 A	TOTAL ORGANIC CARBON (TOC)	UT
EPA 9310	GROSS ALPHA	UT
EPA 9315	TOTAL ALPHA RADIUM	UT
RSK-175	ETHANE	UT
RSK-175	METHANE	UT
SM 2130 B-2011	TURBIDITY	UT
SM 2320 B-2011	ALKALINITY AS CACO3	UT
SM 2340 C-2011	TOTAL HARDNESS AS CACO3	UT
SM 2540 B-2011	RESIDUE-TOTAL (TS)	UT
SM 2540 D-2011	RESIDUE-NONFILTERABLE (TSS)	UT
SM 4500-CN^- C-2011	PREP: CYANIDE DISTILLATION	UT
SM 4500-NH3 B-2011	AMMONIA AS N	UT
SM 4500-NORG D-2011	KJELDAHL NITROGEN - TOTAL (TKN)	UT
SM 5210 B-2011	BIOCHEMICAL OXYGEN DEMAND (BOD)	UT
SM 5310 B-2011	TOTAL ORGANIC CARBON (TOC)	UT



Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services



Scope of Accreditation

VELAP Certificate No.: 12241

GEL Laboratories, LLC
2040 Savage Rd
Charleston, SC 29407

Virginia Laboratory ID: 460202
Effective Date: December 15, 2022
Expiration Date: December 14, 2023

SOLID AND CHEMICAL MATERIALS

METHOD	ANALYTE	PRIMARY
EPA 1020 B	FLASHPOINT	UT
EPA 1311	PREP: TOXICITY CHARACTERISTIC LEACHING PROCEDURE	UT
EPA 3050 B	PREP: ACID DIGESTION OF SEDIMENTS, SLUDGES, AND SOILS	UT
EPA 3541	PREP: AUTOMATED SOXHLET EXTRACTION	UT
EPA 3550 C	PREP: ULTRASONIC EXTRACTION	UT
EPA 3585	PREP: WASTE DILUTION FOR VOLATILE ORGANICS	UT
EPA 3630 C	PREP: SILICA GEL CLEANUP	UT
EPA 3665 A	SULFURIC ACID/PERMANGANATE CLEAN-UP	UT
EPA 5035 A	PREP: CLOSED-SYSTEM PURGE AND TRAP AND EXTRACTION	UT
EPA 6010 D	ALUMINUM	UT
EPA 6010 D	ARSENIC	UT
EPA 6010 D	BERYLLIUM	UT
EPA 6010 D	CADMIUM	UT
EPA 6010 D	CHROMIUM	UT
EPA 6010 D	COPPER	UT
EPA 6010 D	LEAD	UT
EPA 6010 D	MANGANESE	UT
EPA 6010 D	NICKEL	UT
EPA 6010 D	POTASSIUM	UT
EPA 6010 D	SILICA AS SIO2	UT
EPA 6010 D	SODIUM	UT
EPA 6010 D	THALLIUM	UT
EPA 6010 D	TITANIUM	UT
EPA 6010 D	ZINC	UT
EPA 6010 D - EXTENDED	SULFUR	UT
EPA 6020 B	ALUMINUM	UT
EPA 6020 B	BARIUM	UT
EPA 6020 B	CADMIUM	UT
EPA 6020 B	CHROMIUM	UT
EPA 6020 B	COPPER	UT
EPA 6020 B	LEAD	UT
EPA 6020 B	MANGANESE	UT
EPA 6020 B	NICKEL	UT
EPA 6020 B	SELENIUM	UT
EPA 6020 B	THALLIUM	UT
EPA 1110 A	CORROSIVITY TOWARD STEEL	UT
EPA 1312	PREP: SYNTHETIC PRECIPITATION LEACHING PROCEDURE	UT
EPA 3060 A	PREP: HEXAVALENT CHROMIUM	UT
EPA 3550 B	PREP: ULTRASONIC EXTRACTION	UT
EPA 3580 A	PREP: WASTE DILUTION	UT
EPA 3620 B	PREP: FLORISIL CLEANUP	UT
EPA 3640 A	PREP: GEL PERMEATION CLEANUP	UT
EPA 5035	PREP: CLOSED-SYSTEM PURGE AND TRAP AND EXTRACTION	UT
EPA 5050	PREP: BOMB PREPARATION	UT
EPA 6010 D	ANTIMONY	UT
EPA 6010 D	BARIUM	UT
EPA 6010 D	BORON	UT
EPA 6010 D	CALCIUM	UT
EPA 6010 D	COBALT	UT
EPA 6010 D	IRON	UT
EPA 6010 D	MAGNESIUM	UT
EPA 6010 D	MOLYBDENUM	UT
EPA 6010 D	PHOSPHORUS, TOTAL	UT
EPA 6010 D	SELENIUM	UT
EPA 6010 D	SILVER	UT
EPA 6010 D	STRONTIUM	UT
EPA 6010 D	TIN	UT
EPA 6010 D	VANADIUM	UT
EPA 6010 D - EXTENDED	SILICON	UT
EPA 6010 D - EXTENDED	URANIUM	UT
EPA 6020 B	ARSENIC	UT
EPA 6020 B	BERYLLIUM	UT
EPA 6020 B	CALCIUM	UT
EPA 6020 B	COBALT	UT
EPA 6020 B	IRON	UT
EPA 6020 B	MAGNESIUM	UT
EPA 6020 B	MOLYBDENUM	UT
EPA 6020 B	POTASSIUM	UT
EPA 6020 B	SODIUM	UT
EPA 6020 B	VANADIUM	UT



Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services



Scope of Accreditation

VELAP Certificate No.: 12241

GEL Laboratories, LLC
2040 Savage Rd
Charleston, SC 29407

Virginia Laboratory ID: 460202
Effective Date: December 15, 2022
Expiration Date: December 14, 2023

SOLID AND CHEMICAL MATERIALS

METHOD	ANALYTE	PRIMARY
EPA 6020 B	ZINC	UT
EPA 6020 B - EXTENDED	BORON	UT
EPA 6020 B - EXTENDED	STRONTIUM	UT
EPA 6020 B - EXTENDED	TITANIUM	UT
EPA 6020 B - EXTENDED	URANIUM	UT
EPA 6850	PERCHLORATE	UT
EPA 7470 A	MERCURY	UT
EPA 8015 C	1-BUTANOL (N-BUTANOL, N-BUTYL ALCOHOL)	UT
EPA 8015 C	ETHANOL	UT
EPA 8015 C	ETHYLENE GLYCOL	UT
EPA 8015 C	ISOBUTYL ALCOHOL (2-METHYL-1-PROPANOL)	UT
EPA 8015 C	METHANOL	UT
EPA 8015 D	ETHANOL	UT
EPA 8015 D	GASOLINE RANGE ORGANICS (GRO)	UT
EPA 8015 D	METHANOL	UT
EPA 8015 D - EXTENDED	ETHYLENE GLYCOL	UT
EPA 8081 B	4,4'-DDD	UT
EPA 8081 B	4,4'-DDT	UT
EPA 8081 B	ALPHA-BHC (ALPHA-HEXACHLOROCYCLOHEXANE)	UT
EPA 8081 B	BETA-BHC (BETA-HEXACHLOROCYCLOHEXANE)	UT
EPA 8081 B	DELTA-BHC	UT
EPA 8081 B	ENDOSULFAN I	UT
EPA 8081 B	ENDOSULFAN SULFATE	UT
EPA 8081 B	ENDRIN ALDEHYDE	UT
EPA 8081 B	GAMMA-BHC (LINDANE, GAMMA-HEXACHLOROCYCLOHEXANE)	UT
EPA 8081 B	HEPTACHLOR	UT
EPA 8081 B	METHOXYCHLOR	UT
EPA 8081 B - EXTENDED	2,4'-DDD	UT
EPA 8081 B - EXTENDED	2,4'-DDT	UT
EPA 8081 B - EXTENDED	TRANS-NONACHLOR	UT
EPA 8082 A	AROCLOR-1221 (PCB-1221)	UT
EPA 6020 B - EXTENDED	BISMUTH	UT
EPA 6020 B - EXTENDED	LITHIUM	UT
EPA 6020 B - EXTENDED	THORIUM	UT
EPA 6020 B - EXTENDED	TUNGSTEN	UT
EPA 6020 B - EXTENDED	ZIRCONIUM	UT
EPA 7196 A	CHROMIUM VI	UT
EPA 7471 B	MERCURY	UT
EPA 8015 C	DIESEL RANGE ORGANICS (DRO)	UT
EPA 8015 C	ETHYL ACETATE	UT
EPA 8015 C	GASOLINE RANGE ORGANICS (GRO)	UT
EPA 8015 C	ISOPROPYL ALCOHOL (2-PROPANOL, ISOPROPANOL)	UT
EPA 8015 D	DIESEL RANGE ORGANICS (DRO)	UT
EPA 8015 D	ETHYL ACETATE	UT
EPA 8015 D	ISOPROPYL ALCOHOL (2-PROPANOL, ISOPROPANOL)	UT
EPA 8015 D - EXTENDED	1-BUTANOL (N-BUTANOL, N-BUTYL ALCOHOL)	UT
EPA 8015 D - EXTENDED	ISOBUTYL ALCOHOL (2-METHYL-1-PROPANOL)	UT
EPA 8081 B	4,4'-DDE	UT
EPA 8081 B	ALDRIN	UT
EPA 8081 B	ALPHA-CHLORDANE (CIS-CHLORDANE)	UT
EPA 8081 B	CHLORDANE, TOTAL	UT
EPA 8081 B	DIELDRIN	UT
EPA 8081 B	ENDOSULFAN II	UT
EPA 8081 B	ENDRIN	UT
EPA 8081 B	ENDRIN KETONE	UT
EPA 8081 B	GAMMA-CHLORDANE (BETA-CHLORDANE, TRANS-CHLORDANE)	UT
EPA 8081 B	HEPTACHLOR EPOXIDE	UT
EPA 8081 B	TOXAPHENE (CHLORINATED CAMPHENE)	UT
EPA 8081 B - EXTENDED	2,4'-DDE	UT
EPA 8081 B - EXTENDED	MIREX	UT
EPA 8082 A	AROCLOR-1016 (PCB-1016)	UT
EPA 8082 A	AROCLOR-1232 (PCB-1232)	UT



Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services



Scope of Accreditation

VELAP Certificate No.: 12241

GEL Laboratories, LLC
2040 Savage Rd
Charleston, SC 29407

Virginia Laboratory ID: 460202
Effective Date: December 15, 2022
Expiration Date: December 14, 2023

SOLID AND CHEMICAL MATERIALS

METHOD	ANALYTE	PRIMARY
EPA 8082 A	AROCLOR-1242 (PCB-1242)	UT
EPA 8082 A	AROCLOR-1254 (PCB-1254)	UT
EPA 8082 A - EXTENDED	AROCLOR-1262 (PCB-1262)	UT
EPA 8151 A	2,4,5-T	UT
EPA 8151 A	2,4-DB	UT
EPA 8151 A	DICAMBA	UT
EPA 8151 A	DINOSEB (2-SEC-BUTYL-4,6-DINITROPHENOL, DNBP)	UT
EPA 8151 A	MCPP	UT
EPA 8151 A	SILVEX (2,4,5-TP)	UT
EPA 8260 D	1,1,1-TRICHLOROETHANE	UT
EPA 8260 D	1,1,2-TRICHLORO-1,2,2-TRIFLUORO ETHANE (FREON 113)	UT
EPA 8260 D	1,1-DICHLOROETHANE	UT
EPA 8260 D	1,1-DICHLOROPROPENE	UT
EPA 8260 D	1,2,3-TRICHLOROPROPANE	UT
EPA 8260 D	1,2,4-TRIMETHYLBENZENE	UT
EPA 8260 D	1,2-DIBROMOETHANE (EDB, ETHYLENE DIBROMIDE)	UT
EPA 8260 D	1,2-DICHLOROETHANE (ETHYLENE DICHLORIDE)	UT
EPA 8260 D	1,3,5-TRIMETHYLBENZENE	UT
EPA 8260 D	1,3-DICHLOROPROPANE	UT
EPA 8260 D	1,4-DIOXANE (P-DIOXANE /1,4-DIETHYLENEOXIDE)	UT
EPA 8260 D	1-CHLOROHEXANE	UT
EPA 8260 D	2-BUTANONE (METHYL ETHYL KETONE, MEK)	UT
EPA 8260 D	2-CHLOROTOLUENE	UT
EPA 8260 D	2-NITROPROPANE	UT
EPA 8260 D	4-CHLOROTOLUENE	UT
EPA 8260 D	4-METHYL-2-PENTANONE (METHYL ISOBUTYL KETONE, MIBK)	UT
EPA 8260 D	ACETONITRILE	UT
EPA 8260 D	ACRYLONITRILE	UT
EPA 8260 D	BENZENE	UT
EPA 8260 D	BROMOBENZENE	UT
EPA 8260 D	BROMODICHLOROMETHANE	UT
EPA 8082 A	AROCLOR-1248 (PCB-1248)	UT
EPA 8082 A	AROCLOR-1260 (PCB-1260)	UT
EPA 8082 A - EXTENDED	AROCLOR-1268 (PCB-1268)	UT
EPA 8151 A	2,4-D	UT
EPA 8151 A	DALAPON	UT
EPA 8151 A	DICHLOROPROP (DICHLORPROP)	UT
EPA 8151 A	MCPA	UT
EPA 8151 A	PENTACHLOROPHENOL	UT
EPA 8260 D	1,1,1,2-TETRACHLOROETHANE	UT
EPA 8260 D	1,1,2,2-TETRACHLOROETHANE	UT
EPA 8260 D	1,1,2-TRICHLOROETHANE	UT
EPA 8260 D	1,1-DICHLOROETHYLENE	UT
EPA 8260 D	1,2,3-TRICHLOROBENZENE	UT
EPA 8260 D	1,2,4-TRICHLOROBENZENE	UT
EPA 8260 D	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	UT
EPA 8260 D	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	UT
EPA 8260 D	1,2-DICHLOROPROPANE	UT
EPA 8260 D	1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	UT
EPA 8260 D	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	UT
EPA 8260 D	1-BUTANOL (N-BUTANOL, N-BUTYL ALCOHOL)	UT
EPA 8260 D	2,2-DICHLOROPROPANE	UT
EPA 8260 D	2-CHLOROETHYL VINYL ETHER	UT
EPA 8260 D	2-HEXANONE	UT
EPA 8260 D	2-PENTANONE	UT
EPA 8260 D	4-ISOPROPYLTOLUENE (P-CYMENE, P-ISOPROPYLTOLUENE)	UT
EPA 8260 D	ACETONE	UT
EPA 8260 D	ACROLEIN (PROPENAL)	UT
EPA 8260 D	ALLYL CHLORIDE (3-CHLOROPROPENE)	UT
EPA 8260 D	BENZYL CHLORIDE	UT
EPA 8260 D	BROMOCHLOROMETHANE	UT



Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services



Scope of Accreditation

VELAP Certificate No.: 12241

GEL Laboratories, LLC
2040 Savage Rd
Charleston, SC 29407

Virginia Laboratory ID: 460202
Effective Date: December 15, 2022
Expiration Date: December 14, 2023

SOLID AND CHEMICAL MATERIALS

METHOD	ANALYTE	PRIMARY
EPA 8260 D	BROMOFORM	UT
EPA 8260 D	CARBON TETRACHLORIDE	UT
EPA 8260 D	CHLORODIBROMOMETHANE	UT
EPA 8260 D	CHLOROFORM	UT
EPA 8260 D	CIS-1,2-DICHLOROETHYLENE	UT
EPA 8260 D	CIS-1,4-DICHLORO-2-BUTENE	UT
EPA 8260 D	DI-ISOPROPYLETHER (DIPE, ISOPROPYL ETHER)	UT
EPA 8260 D	DICHLORODIFLUOROMETHANE (FREON-12)	UT
EPA 8260 D	ETHYL ACETATE	UT
EPA 8260 D	ETHYL-T-BUTYLETHER (2-ETHOXY-2-METHYLPROPANE, ETBE)	UT
EPA 8260 D	ETHYLENE OXIDE	UT
EPA 8260 D	IODOMETHANE (METHYL IODIDE)	UT
EPA 8260 D	ISOPROPYL ALCOHOL (2-PROPANOL, ISOPROPANOL)	UT
EPA 8260 D	M+P-XYLENE	UT
EPA 8260 D	METHYL ACETATE	UT
EPA 8260 D	METHYL CHLORIDE (CHLOROMETHANE)	UT
EPA 8260 D	METHYL TERT-BUTYL ETHER (MTBE)	UT
EPA 8260 D	METHYLENE CHLORIDE (DICHLOROMETHANE)	UT
EPA 8260 D	N-PROPYLBENZENE	UT
EPA 8260 D	O-XYLENE	UT
EPA 8260 D	PROPIONITRILE (ETHYL CYANIDE)	UT
EPA 8260 D	STYRENE	UT
EPA 8260 D	TERT-BUTYL ALCOHOL (2-METHYL-2-PROPANOL)	UT
EPA 8260 D	TETRACHLOROETHENE (PERCHLOROETHENE)	UT
EPA 8260 D	TRANS-1,2-DICHLOROETHENE	UT
EPA 8260 D	TRANS-1,4-DICHLORO-2-BUTENE	UT
EPA 8260 D	TRICHLOROFLUOROMETHANE (FLUOROTRICHLOROMETHANE, FREON 11)	UT
EPA 8260 D	CARBON DISULFIDE	UT
EPA 8260 D	CHLOROBENZENE	UT
EPA 8260 D	CHLOROETHANE (ETHYL CHLORIDE)	UT
EPA 8260 D	CHLOROPRENE (2-CHLORO-1,3-BUTADIENE)	UT
EPA 8260 D	CIS-1,3-DICHLOROPROPENE	UT
EPA 8260 D	CYCLOHEXANE	UT
EPA 8260 D	DIBROMOMETHANE (METHYLENE BROMIDE)	UT
EPA 8260 D	DIETHYL ETHER	UT
EPA 8260 D	ETHYL METHACRYLATE	UT
EPA 8260 D	ETHYLBENZENE	UT
EPA 8260 D	HEXACHLOROBUTADIENE (1,3-HEXACHLOROBUTADIENE)	UT
EPA 8260 D	ISOBUTYL ALCOHOL (2-METHYL-1-PROPANOL)	UT
EPA 8260 D	ISOPROPYLBENZENE	UT
EPA 8260 D	METHACRYLONITRILE	UT
EPA 8260 D	METHYL BROMIDE (BROMOMETHANE)	UT
EPA 8260 D	METHYL METHACRYLATE	UT
EPA 8260 D	METHYLCYCLOHEXANE	UT
EPA 8260 D	N-BUTYLBENZENE	UT
EPA 8260 D	NAPHTHALENE	UT
EPA 8260 D	PENTACHLOROETHANE	UT
EPA 8260 D	SEC-BUTYLBENZENE	UT
EPA 8260 D	T-AMYLMETHYLETHER (TAME)	UT
EPA 8260 D	TERT-BUTYLBENZENE	UT
EPA 8260 D	TOLUENE	UT
EPA 8260 D	TRANS-1,3-DICHLOROPROPENE (TRANS-1,3-DICHLOROPROPYLENE)	UT
EPA 8260 D	TRICHLOROETHENE (TRICHLOROETHYLENE)	UT
EPA 8260 D	VINYL ACETATE	UT



Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services



Scope of Accreditation

VELAP Certificate No.: 12241

GEL Laboratories, LLC
2040 Savage Rd
Charleston, SC 29407

Virginia Laboratory ID: 460202
Effective Date: December 15, 2022
Expiration Date: December 14, 2023

SOLID AND CHEMICAL MATERIALS

METHOD	ANALYTE	PRIMARY
EPA 8260 D	VINYL CHLORIDE (CHLOROETHENE)	UT
EPA 8260 D - EXTENDED	CYCLOHEXANONE	UT
EPA 8270 D SIM - EXTENDED	1,4-DIOXANE (P-DIOXANE /1,4-DIETHYLENEOXIDE)	UT
EPA 8270 E	1,2,4,5-TETRACHLOROBENZENE	UT
EPA 8270 E	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	UT
EPA 8270 E	1,3,5-TRINITROBENZENE (1,3,5-TNB)	UT
EPA 8270 E	1,3-DINITROBENZENE (1,3-DNB)	UT
EPA 8270 E	1,4-DINITROBENZENE (1,4-DNB)	UT
EPA 8270 E	1,4-NAPHTHOQUINONE	UT
EPA 8270 E	1-METHYLNAPHTHALENE	UT
EPA 8270 E	2,3,4,6-TETRACHLOROPHENOL	UT
EPA 8270 E	2,4,6-TRICHLOROPHENOL	UT
EPA 8270 E	2,4-DIMETHYLPHENOL	UT
EPA 8270 E	2,4-DINITROTOLUENE (2,4-DNT)	UT
EPA 8270 E	2,6-DINITROTOLUENE (2,6-DNT)	UT
EPA 8270 E	2-CHLORONAPHTHALENE	UT
EPA 8270 E	2-METHYL-4,6-DINITROPHENOL (4,6-DINITRO-2-METHYLPHENOL)	UT
EPA 8270 E	2-METHYLPHENOL (O-CRESOL)	UT
EPA 8270 E	2-NITROANILINE	UT
EPA 8270 E	2-PICOLINE (2-METHYLPYRIDINE)	UT
EPA 8270 E	3,3'-DIMETHOXYBENZIDINE	UT
EPA 8270 E	3-METHYLCHOLANTHRENE	UT
EPA 8270 E	3-NITROANILINE	UT
EPA 8270 E	4-AMINOBIPHENYL	UT
EPA 8270 E	4-CHLORO-3-METHYLPHENOL	UT
EPA 8270 E	4-CHLOROPHENYL PHENYLETHER	UT
EPA 8270 E	4-NITROANILINE	UT
EPA 8270 E	4-NITROQUINOLINE-1-OXIDE	UT
EPA 8270 E	7,12-DIMETHYLBENZ(A) ANTHRACENE	UT
EPA 8270 E	ACENAPHTHENE	UT
EPA 8270 E	ACETOPHENONE	UT
EPA 8270 E	ANTHRACENE	UT
EPA 8270 E	ATRAZINE	UT
EPA 8260 D	XYLENE (TOTAL)	UT
EPA 8260 D - EXTENDED	TETRAHYDROFURAN (THF)	UT
EPA 8270 E	1,1'-BIPHENYL (BZ-0)	UT
EPA 8270 E	1,2,4-TRICHLOROBENZENE	UT
EPA 8270 E	1,2-DIPHENYLHYDRAZINE	UT
EPA 8270 E	1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	UT
EPA 8270 E	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	UT
EPA 8270 E	1,4-DIOXANE (P-DIOXANE /1,4-DIETHYLENEOXIDE)	UT
EPA 8270 E	1,4-PHENYLENEDIAMINE	UT
EPA 8270 E	1-NAPHTHYLAMINE	UT
EPA 8270 E	2,4,5-TRICHLOROPHENOL	UT
EPA 8270 E	2,4-DICHLOROPHENOL	UT
EPA 8270 E	2,4-DINITROPHENOL	UT
EPA 8270 E	2,6-DICHLOROPHENOL	UT
EPA 8270 E	2-ACETYLAMINOFLUORENE	UT
EPA 8270 E	2-CHLOROPHENOL	UT
EPA 8270 E	2-METHYLNAPHTHALENE	UT
EPA 8270 E	2-NAPHTHYLAMINE	UT
EPA 8270 E	2-NITROPHENOL	UT
EPA 8270 E	3,3'-DICHLOROBENZIDINE	UT
EPA 8270 E	3,3'-DIMETHYLBENZIDINE	UT
EPA 8270 E	3-METHYLPHENOL (M-CRESOL)	UT
EPA 8270 E	4,4'-METHYLENEBIS-2-CHLOROANILINE	UT
EPA 8270 E	4-BROMOPHENYL PHENYL ETHER (BDE-3)	UT
EPA 8270 E	4-CHLOROANILINE	UT
EPA 8270 E	4-METHYLPHENOL (P-CRESOL)	UT
EPA 8270 E	4-NITROPHENOL	UT
EPA 8270 E	5-NITRO-O-TOLUIDINE	UT
EPA 8270 E	A-A-DIMETHYLPHENETHYLAMINE	UT
EPA 8270 E	ACENAPHTHYLENE	UT
EPA 8270 E	ANILINE	UT
EPA 8270 E	ARAMITE	UT
EPA 8270 E	AZOBENZENE	UT



Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services



Scope of Accreditation

VELAP Certificate No.: 12241

GEL Laboratories, LLC
2040 Savage Rd
Charleston, SC 29407

Virginia Laboratory ID: 460202
Effective Date: December 15, 2022
Expiration Date: December 14, 2023

SOLID AND CHEMICAL MATERIALS

METHOD	ANALYTE	PRIMARY
EPA 8270 E	BENZALDEHYDE	UT
EPA 8270 E	BENZO(A)ANTHRACENE	UT
EPA 8270 E	BENZO(B)FLUORANTHENE	UT
EPA 8270 E	BENZO(K)FLUORANTHENE	UT
EPA 8270 E	BENZYL ALCOHOL	UT
EPA 8270 E	BIS(2-CHLOROETHYL) ETHER	UT
EPA 8270 E	BUTYL BENZYL PHTHALATE	UT
EPA 8270 E	CARBAZOLE	UT
EPA 8270 E	CHRYSENE	UT
EPA 8270 E	DI-N-OCTYL PHTHALATE	UT
EPA 8270 E	DIBENZO(A,E) PYRENE	UT
EPA 8270 E	DIBENZOFURAN	UT
EPA 8270 E	DIMETHOATE	UT
EPA 8270 E	DIPHENYLAMINE	UT
EPA 8270 E	ETHYL METHANESULFONATE	UT
EPA 8270 E	FLUORANTHENE	UT
EPA 8270 E	HEXACHLOROBENZENE	UT
EPA 8270 E	HEXACHLOROCYCLOPENTADIENE	UT
EPA 8270 E	HEXACHLOROPHENE	UT
EPA 8270 E	INDENO(1,2,3-CD) PYRENE	UT
EPA 8270 E	ISOPHORONE	UT
EPA 8270 E	KEPONE	UT
EPA 8270 E	METHYL METHANESULFONATE	UT
EPA 8270 E	N-NITROSO-DI-N-BUTYLAMINE	UT
EPA 8270 E	N-NITROSODIETHYLAMINE	UT
EPA 8270 E	N-NITROSODIPHENYLAMINE	UT
EPA 8270 E	N-NITROSOMORPHOLINE	UT
EPA 8270 E	N-NITROSOPYRROLIDINE	UT
EPA 8270 E	NITROBENZENE	UT
EPA 8270 E	O-TOLUIDINE (2-METHYLANILINE)	UT
EPA 8270 E	PARATHION (PARATHION - ETHYL)	UT
EPA 8270 E	PENTACHLORONITROBENZENE	UT
EPA 8270 E	PHENACETIN	UT
EPA 8270 E	PHENOL	UT
EPA 8270 E	PHTHALIC ANHYDRIDE	UT
EPA 8270 E	PYRENE	UT
EPA 8270 E	BENZIDINE	UT
EPA 8270 E	BENZO(A)PYRENE	UT
EPA 8270 E	BENZO(G,H,I)PERYLENE	UT
EPA 8270 E	BENZOIC ACID	UT
EPA 8270 E	BIS(2-CHLOROETHOXY)METHANE	UT
EPA 8270 E	BIS(2-ETHYLHEXYL) PHTHALATE (DI(2-ETHYLHEXYL)PHTHALATE), (DEHP)	UT
EPA 8270 E	CAPROLACTAM	UT
EPA 8270 E	CHLOROBENZILATE	UT
EPA 8270 E	DI-N-BUTYL PHTHALATE	UT
EPA 8270 E	DIALLATE	UT
EPA 8270 E	DIBENZO(A,H) ANTHRACENE	UT
EPA 8270 E	DIETHYL PHTHALATE	UT
EPA 8270 E	DIMETHYL PHTHALATE	UT
EPA 8270 E	DISULFOTON	UT
EPA 8270 E	FAMPHUR	UT
EPA 8270 E	FLUORENE	UT
EPA 8270 E	HEXACHLOROBUTADIENE (1,3-HEXACHLOROBUTADIENE)	UT
EPA 8270 E	HEXACHLOROETHANE	UT
EPA 8270 E	HEXACHLOROPROPENE	UT
EPA 8270 E	ISODRIN	UT
EPA 8270 E	ISOSAFROLE	UT
EPA 8270 E	METHAPYRILENE	UT
EPA 8270 E	METHYL PARATHION (PARATHION, METHYL)	UT
EPA 8270 E	N-NITROSODI-N-PROPYLAMINE	UT
EPA 8270 E	N-NITROSODIMETHYLAMINE	UT
EPA 8270 E	N-NITROSOMETHYLETHYLAMINE	UT
EPA 8270 E	N-NITROSOPIPERIDINE	UT
EPA 8270 E	NAPHTHALENE	UT
EPA 8270 E	O,O,O-TRIETHYL PHOSPHOROTHIOATE	UT
EPA 8270 E	P-BENZOQUINONE (QUINONE)	UT
EPA 8270 E	PENTACHLOROBENZENE	UT
EPA 8270 E	PENTACHLOROPHENOL	UT
EPA 8270 E	PHENANTHRENE	UT
EPA 8270 E	PHORATE	UT
EPA 8270 E	PRONAMIDE (KERB)	UT



Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services



Scope of Accreditation

VELAP Certificate No.: 12241

GEL Laboratories, LLC
2040 Savage Rd
Charleston, SC 29407

Virginia Laboratory ID: 460202
Effective Date: December 15, 2022
Expiration Date: December 14, 2023

SOLID AND CHEMICAL MATERIALS

METHOD	ANALYTE	PRIMARY
EPA 8270 E	PYRIDINE	UT
EPA 8270 E	SULFOTEPP (TETRAETHYL DITHIOPYROPHOSPHATE)	UT
EPA 8270 E - EXTENDED	2,2'-OXYBIS(1-CHLOROPROPANE)	UT
EPA 8270 E - EXTENDED	ALPHA-TERPINEOL	UT
EPA 8270 E - EXTENDED	N-OCTADECANE	UT
EPA 8270 E SIM	1,4-DIOXANE (P-DIOXANE /1,4-DIETHYLENEOXIDE)	UT
EPA 8270 E SIM	2-METHYLNAPHTHALENE	UT
EPA 8270 E SIM	ACENAPHTHYLENE	UT
EPA 8270 E SIM	BENZO(A)ANTHRACENE	UT
EPA 8270 E SIM	BENZO(B)FLUORANTHENE	UT
EPA 8270 E SIM	BENZO(K)FLUORANTHENE	UT
EPA 8270 E SIM	DIBENZO(A,H) ANTHRACENE	UT
EPA 8270 E SIM	FLUORENE	UT
EPA 8270 E SIM	NAPHTHALENE	UT
EPA 8270 E SIM	PYRENE	UT
EPA 8330 A	1,3-DINITROBENZENE (1,3-DNB)	UT
EPA 8330 A	2,4-DINITROTOLUENE (2,4-DNT)	UT
EPA 8330 A	2-AMINO-4,6-DINITROTOLUENE (2-AM-DNT)	UT
EPA 8330 A	3-NITROTOLUENE	UT
EPA 8330 A	4-NITROTOLUENE	UT
EPA 8330 A	NITROBENZENE	UT
EPA 8330 A	OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE (HMX)	UT
EPA 8330 A	RDX (HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE)	UT
EPA 8330 B	1,3-DINITROBENZENE (1,3-DNB)	UT
EPA 8330 B	2,4-DINITROTOLUENE (2,4-DNT)	UT
EPA 8330 B	2-AMINO-4,6-DINITROTOLUENE (2-AM-DNT)	UT
EPA 8330 B	3,5-DINITROANILINE	UT
EPA 8330 B	4-AMINO-2,6-DINITROTOLUENE (4-AM-DNT)	UT
EPA 8330 B	METHYL-2,4,6-TRINITROPHENYLNITRAMINE (TETRYL)	UT
EPA 8330 B	NITROGLYCERIN	UT
EPA 8270 E	SAFROLE	UT
EPA 8270 E	THIONAZIN (ZINOPHOS, DIETHYL-O-2-PYRAZINYL PHOSPHOROTHIONATE)	UT
EPA 8270 E - EXTENDED	2,3-DICHLOROANILINE	UT
EPA 8270 E - EXTENDED	N-DECANE	UT
EPA 8270 E - EXTENDED	TRIBUTYL PHOSPHATE	UT
EPA 8270 E SIM	1-METHYLNAPHTHALENE	UT
EPA 8270 E SIM	ACENAPHTHENE	UT
EPA 8270 E SIM	ANTHRACENE	UT
EPA 8270 E SIM	BENZO(A)PYRENE	UT
EPA 8270 E SIM	BENZO(G,H,I)PERYLENE	UT
EPA 8270 E SIM	CHRYSENE	UT
EPA 8270 E SIM	FLUORANTHENE	UT
EPA 8270 E SIM	INDENO(1,2,3-CD) PYRENE	UT
EPA 8270 E SIM	PHENANTHRENE	UT
EPA 8330 A	1,3,5-TRINITROBENZENE (1,3,5-TNB)	UT
EPA 8330 A	2,4,6-TRINITROTOLUENE (2,4,6-TNT)	UT
EPA 8330 A	2,6-DINITROTOLUENE (2,6-DNT)	UT
EPA 8330 A	2-NITROTOLUENE	UT
EPA 8330 A	4-AMINO-2,6-DINITROTOLUENE (4-AM-DNT)	UT
EPA 8330 A	METHYL-2,4,6-TRINITROPHENYLNITRAMINE (TETRYL)	UT
EPA 8330 A	NITROGLYCERIN	UT
EPA 8330 A	PENTAERYTHRITOLTETRANITRATE (PETN)	UT
EPA 8330 B	1,3,5-TRINITROBENZENE (1,3,5-TNB)	UT
EPA 8330 B	2,4,6-TRINITROTOLUENE (2,4,6-TNT)	UT
EPA 8330 B	2,6-DINITROTOLUENE (2,6-DNT)	UT
EPA 8330 B	2-NITROTOLUENE	UT
EPA 8330 B	3-NITROTOLUENE	UT
EPA 8330 B	4-NITROTOLUENE	UT
EPA 8330 B	NITROBENZENE	UT
EPA 8330 B	OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE (HMX)	UT

Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services

Scope of Accreditation

VELAP Certificate No.: 12241

GEL Laboratories, LLC
2040 Savage Rd
Charleston, SC 29407

Virginia Laboratory ID: 460202
Effective Date: December 15, 2022
Expiration Date: December 14, 2023

SOLID AND CHEMICAL MATERIALS

METHOD	ANALYTE	PRIMARY
EPA 8330 B	PENTAERYTHRITOLTETRANITRATE (PETN)	UT
EPA 9010 C	PREP: CYANIDE DISTILLATION	UT
EPA 9012 B	CYANIDE, TOTAL	UT
EPA 9030 B	PREP: SULFIDE	UT
EPA 9041 A	PH	UT
EPA 9056 A	BROMIDE	UT
EPA 9056 A	FLUORIDE	UT
EPA 9056 A	NITRITE AS N	UT
EPA 9056 A	SULFATE	UT
EPA 9060 A	TOTAL ORGANIC CARBON (TOC)	UT
EPA 9095 B	FREE LIQUID	UT
EPA 9315	TOTAL ALPHA RADIUM	UT
EPA 8330 B	RDX (HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE)	UT
EPA 9012 B	CYANIDE, AMENABLE	UT
EPA 9023	EXTRACTABLE ORGANIC HALIDES (EOX)	UT
EPA 9034	TOTAL SULFIDES	UT
EPA 9045 D	PH	UT
EPA 9056 A	CHLORIDE	UT
EPA 9056 A	NITRATE AS N	UT
EPA 9056 A	ORTHOPHOSPHATE AS P	UT
EPA 9056 A - EXTENDED	NITRATE/NITRITE	UT
EPA 9066	TOTAL PHENOLICS	UT
EPA 9310	GROSS ALPHA AND BETA	UT
EPA 9320	RADIUM-228	UT

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF GENERAL SERVICES
DIVISION OF CONSOLIDATED LABORATORY SERVICES

Certifies that

VA Laboratory ID#: 460193
Pace Analytical Services, LLC - West Columbia SC

106 Vantage Point Drive
West Columbia, SC 29172

Owner: PAS PARENT INC.
Operator: BRAD BELDING
Responsible Official: NEIL MAGEE

Having met the requirements of 1 VAC 30-46 and
having been found compliant with the 2009 TNI Standard approved by The NELAC Institute
is hereby approved as an

Accredited Environmental Laboratory

As more fully described in the attached Scope of Accreditation

Effective Date: **September 16, 2022**
Expiration Date: **September 14, 2023**
Certificate # 12068

Denise M. Toney, Ph.D., HCLD
DGS Deputy Director for Laboratories

Continued accreditation status depends on successful ongoing participation in the program.
Certificate to be conspicuously displayed at the laboratory.
Not valid unless accompanied by a valid Virginia Environmental Laboratory Accreditation Program (VELAP) Scope of Accreditation.
Customers are urged to verify the laboratory's current accreditation status.

Certificate Not Transferable

Surrender Upon Revocation

Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services

Scope of Accreditation

VELAP Certificate No.: 12068

Pace Analytical Services, LLC - West Columbia SC
106 Vantage Point Drive
West Columbia, SC 29172

Virginia Laboratory ID: 460193
Effective Date: September 16, 2022
Expiration Date: September 14, 2023

NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY	METHOD	ANALYTE	PRIMARY
EPA 1010	FLASHPOINT	FL	EPA 120.1	CONDUCTIVITY	FL
EPA 1631 E	MERCURY	FL	EPA 1664 B	OIL AND GREASE (AS N-HEXANE EXTRACTABLE MATERIAL (HEM))	FL
EPA 180.1 REV 2	TURBIDITY	FL	EPA 200.7 REV 4.4	ALUMINUM	FL
EPA 200.7 REV 4.4	ANTIMONY	FL	EPA 200.7 REV 4.4	ARSENIC	FL
EPA 200.7 REV 4.4	BARIUM	FL	EPA 200.7 REV 4.4	BERYLLIUM	FL
EPA 200.7 REV 4.4	BORON	FL	EPA 200.7 REV 4.4	CADMIUM	FL
EPA 200.7 REV 4.4	CALCIUM	FL	EPA 200.7 REV 4.4	CHROMIUM	FL
EPA 200.7 REV 4.4	COBALT	FL	EPA 200.7 REV 4.4	COPPER	FL
EPA 200.7 REV 4.4	IRON	FL	EPA 200.7 REV 4.4	LEAD	FL
EPA 200.7 REV 4.4	MAGNESIUM	FL	EPA 200.7 REV 4.4	MANGANESE	FL
EPA 200.7 REV 4.4	MOLYBDENUM	FL	EPA 200.7 REV 4.4	NICKEL	FL
EPA 200.7 REV 4.4	POTASSIUM	FL	EPA 200.7 REV 4.4	SELENIUM	FL
EPA 200.7 REV 4.4	SILVER	FL	EPA 200.7 REV 4.4	SODIUM	FL
EPA 200.7 REV 4.4	THALLIUM	FL	EPA 200.7 REV 4.4	TIN	FL
EPA 200.7 REV 4.4	VANADIUM	FL	EPA 200.7 REV 4.4	ZINC	FL
EPA 200.8 REV 5.4	ALUMINUM	FL	EPA 200.8 REV 5.4	ANTIMONY	FL
EPA 200.8 REV 5.4	ARSENIC	FL	EPA 200.8 REV 5.4	BARIUM	FL
EPA 200.8 REV 5.4	BERYLLIUM	FL	EPA 200.8 REV 5.4	CADMIUM	FL
EPA 200.8 REV 5.4	CHROMIUM	FL	EPA 200.8 REV 5.4	COBALT	FL
EPA 200.8 REV 5.4	COPPER	FL	EPA 200.8 REV 5.4	LEAD	FL
EPA 200.8 REV 5.4	MANGANESE	FL	EPA 200.8 REV 5.4	MOLYBDENUM	FL
EPA 200.8 REV 5.4	NICKEL	FL	EPA 200.8 REV 5.4	SELENIUM	FL
EPA 200.8 REV 5.4	SILVER	FL	EPA 200.8 REV 5.4	THALLIUM	FL
EPA 200.8 REV 5.4	VANADIUM	FL	EPA 200.8 REV 5.4	ZINC	FL
EPA 245.1 REV 3	MERCURY	FL	EPA 300.0 REV 2.1	BROMIDE	FL
EPA 300.0 REV 2.1	CHLORIDE	FL	EPA 300.0 REV 2.1	FLUORIDE	FL
EPA 300.0 REV 2.1	NITRATE AS N	FL	EPA 300.0 REV 2.1	NITRITE AS N	FL
EPA 300.0 REV 2.1	SULFATE	FL	EPA 335.4 REV 1.0	CYANIDE	FL
EPA 350.1 REV 2	AMMONIA AS N	FL	EPA 351.2 REV 2	KJELDAHL NITROGEN - TOTAL (TKN)	FL
EPA 353.2 REV 2	NITRATE AS N	FL	EPA 353.2 REV 2	NITRATE/NITRITE	FL
EPA 353.2 REV 2	NITRITE AS N	FL	EPA 420.4 REV 1	TOTAL PHENOLICS	FL
EPA 6010 C	ALUMINUM	FL	EPA 6010 C	ANTIMONY	FL
EPA 6010 C	ARSENIC	FL	EPA 6010 C	BARIUM	FL
EPA 6010 C	BERYLLIUM	FL	EPA 6010 C	BORON	FL
EPA 6010 C	CADMIUM	FL	EPA 6010 C	CALCIUM	FL
EPA 6010 C	CHROMIUM	FL	EPA 6010 C	COBALT	FL
EPA 6010 C	COPPER	FL	EPA 6010 C	IRON	FL
EPA 6010 C	LEAD	FL			



Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services



Scope of Accreditation

VELAP Certificate No.: 12068

Pace Analytical Services, LLC - West Columbia SC
106 Vantage Point Drive
West Columbia, SC 29172

Virginia Laboratory ID: 460193
Effective Date: September 16, 2022
Expiration Date: September 14, 2023

NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY	METHOD	ANALYTE	PRIMARY
EPA 6010 C	MAGNESIUM	FL	EPA 6010 C	MANGANESE	FL
EPA 6010 C	MOLYBDENUM	FL	EPA 6010 C	NICKEL	FL
EPA 6010 C	POTASSIUM	FL	EPA 6010 C	SELENIUM	FL
EPA 6010 C	SILVER	FL	EPA 6010 C	SODIUM	FL
EPA 6010 C	THALLIUM	FL	EPA 6010 C	TIN	FL
EPA 6010 C	TITANIUM	FL	EPA 6010 C	VANADIUM	FL
EPA 6010 C	ZINC	FL	EPA 6010 D	ALUMINUM	FL
EPA 6010 D	ANTIMONY	FL	EPA 6010 D	ARSENIC	FL
EPA 6010 D	BARIUM	FL	EPA 6010 D	BERYLLIUM	FL
EPA 6010 D	BORON	FL	EPA 6010 D	CADMIUM	FL
EPA 6010 D	CALCIUM	FL	EPA 6010 D	CHROMIUM	FL
EPA 6010 D	COBALT	FL	EPA 6010 D	COPPER	FL
EPA 6010 D	IRON	FL	EPA 6010 D	LEAD	FL
EPA 6010 D	MAGNESIUM	FL	EPA 6010 D	MANGANESE	FL
EPA 6010 D	MOLYBDENUM	FL	EPA 6010 D	NICKEL	FL
EPA 6010 D	POTASSIUM	FL	EPA 6010 D	SELENIUM	FL
EPA 6010 D	SILVER	FL	EPA 6010 D	SODIUM	FL
EPA 6010 D	THALLIUM	FL	EPA 6010 D	TIN	FL
EPA 6010 D	TITANIUM	FL	EPA 6010 D	VANADIUM	FL
EPA 6010 D	ZINC	FL	EPA 6020 A	ALUMINUM	FL
EPA 6020 A	ANTIMONY	FL	EPA 6020 A	ARSENIC	FL
EPA 6020 A	BARIUM	FL	EPA 6020 A	BERYLLIUM	FL
EPA 6020 A	CADMIUM	FL	EPA 6020 A	CALCIUM	FL
EPA 6020 A	CHROMIUM	FL	EPA 6020 A	COBALT	FL
EPA 6020 A	COPPER	FL	EPA 6020 A	IRON	FL
EPA 6020 A	LEAD	FL	EPA 6020 A	MAGNESIUM	FL
EPA 6020 A	MANGANESE	FL	EPA 6020 A	NICKEL	FL
EPA 6020 A	POTASSIUM	FL	EPA 6020 A	SELENIUM	FL
EPA 6020 A	SILVER	FL	EPA 6020 A	SODIUM	FL
EPA 6020 A	THALLIUM	FL	EPA 6020 A	VANADIUM	FL
EPA 6020 A	ZINC	FL	EPA 6020 A - EXTENDED	BORON	FL
EPA 6020 A - EXTENDED	MOLYBDENUM	FL	EPA 6020 A - EXTENDED	TIN	FL
EPA 6020 A - EXTENDED	TITANIUM	FL	EPA 6020 B	ALUMINUM	FL
EPA 6020 B	ANTIMONY	FL	EPA 6020 B	ARSENIC	FL
EPA 6020 B	BARIUM	FL	EPA 6020 B	BERYLLIUM	FL
EPA 6020 B	CADMIUM	FL	EPA 6020 B	CALCIUM	FL
EPA 6020 B	CHROMIUM	FL	EPA 6020 B	COBALT	FL
EPA 6020 B	COPPER	FL	EPA 6020 B	IRON	FL
EPA 6020 B	LEAD	FL	EPA 6020 B	MAGNESIUM	FL



Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services



Scope of Accreditation

VELAP Certificate No.: 12068

Pace Analytical Services, LLC - West Columbia SC
106 Vantage Point Drive
West Columbia, SC 29172

Virginia Laboratory ID: 460193
Effective Date: September 16, 2022
Expiration Date: September 14, 2023

NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY	METHOD	ANALYTE	PRIMARY
EPA 6020 B	MANGANESE	FL	EPA 6020 B	NICKEL	FL
EPA 6020 B	POTASSIUM	FL	EPA 6020 B	SELENIUM	FL
EPA 6020 B	SILVER	FL	EPA 6020 B	SODIUM	FL
EPA 6020 B	THALLIUM	FL	EPA 6020 B	TIN	FL
EPA 6020 B	VANADIUM	FL	EPA 6020 B	ZINC	FL
EPA 6020 B - EXTENDED	BORON	FL	EPA 6020 B - EXTENDED	TITANIUM	FL
EPA 608.3	4,4'-DDD	FL	EPA 608.3	4,4'-DDE	FL
EPA 608.3	4,4'-DDT	FL	EPA 608.3	ALDRIN	FL
EPA 608.3	ALPHA-BHC (ALPHA-HEXACHLOROCYCLOHEXANE)	FL	EPA 608.3	AROCLOR-1016 (PCB-1016)	FL
EPA 608.3	AROCLOR-1221 (PCB-1221)	FL	EPA 608.3	AROCLOR-1232 (PCB-1232)	FL
EPA 608.3	AROCLOR-1242 (PCB-1242)	FL	EPA 608.3	AROCLOR-1248 (PCB-1248)	FL
EPA 608.3	AROCLOR-1254 (PCB-1254)	FL	EPA 608.3	AROCLOR-1260 (PCB-1260)	FL
EPA 608.3	BETA-BHC (BETA-HEXACHLOROCYCLOHEXANE)	FL	EPA 608.3	CHLORDANE, TOTAL	FL
EPA 608.3	DELTA-BHC	FL	EPA 608.3	DIELDRIN	FL
EPA 608.3	ENDOSULFAN I	FL	EPA 608.3	ENDOSULFAN II	FL
EPA 608.3	ENDOSULFAN SULFATE	FL	EPA 608.3	ENDRIN	FL
EPA 608.3	ENDRIN ALDEHYDE	FL	EPA 608.3	GAMMA-BHC (LINDANE, GAMMA-HEXACHLOROCYCLOHEXANE)	FL
EPA 608.3	HEPTACHLOR	FL	EPA 608.3	HEPTACHLOR EPOXIDE	FL
EPA 608.3	TOXAPHENE (CHLORINATED CAMPHENE)	FL	EPA 624.1	1,1,1-TRICHLOROETHANE	FL
EPA 624.1	1,1,2,2-TETRACHLOROETHANE	FL	EPA 624.1	1,1,2-TRICHLOROETHANE	FL
EPA 624.1	1,1-DICHLOROETHANE	FL	EPA 624.1	1,1-DICHLOROETHYLENE	FL
EPA 624.1	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	FL	EPA 624.1	1,2-DICHLOROETHANE (ETHYLENE DICHLORIDE)	FL
EPA 624.1	1,2-DICHLOROPROPANE	FL	EPA 624.1	1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	FL
EPA 624.1	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	FL	EPA 624.1	2-CHLOROETHYL VINYL ETHER	FL
EPA 624.1	BENZENE	FL	EPA 624.1	BROMODICHLOROMETHANE	FL
EPA 624.1	BROMOFORM	FL	EPA 624.1	CARBON TETRACHLORIDE	FL
EPA 624.1	CHLOROBENZENE	FL	EPA 624.1	CHLOROETHANE (ETHYL CHLORIDE)	FL
EPA 624.1	CHLOROFORM	FL	EPA 624.1	CIS-1,3-DICHLOROPROPENE	FL
EPA 624.1	ETHYLBENZENE	FL	EPA 624.1	METHYL BROMIDE (BROMOMETHANE)	FL
EPA 624.1	METHYL CHLORIDE (CHLOROMETHANE)	FL	EPA 624.1	METHYLENE CHLORIDE (DICHLOROMETHANE)	FL
EPA 624.1	TETRACHLOROETHENE (PERCHLOROETHENE)	FL	EPA 624.1	TOLUENE	FL



Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services



Scope of Accreditation

VELAP Certificate No.: 12068

Pace Analytical Services, LLC - West Columbia SC
106 Vantage Point Drive
West Columbia, SC 29172

Virginia Laboratory ID: 460193
Effective Date: September 16, 2022
Expiration Date: September 14, 2023

NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY	METHOD	ANALYTE	PRIMARY
EPA 624.1	TRANS-1,2-DICHLOROETHENE	FL	EPA 624.1	TRANS-1,3-DICHLOROPROPENE (TRANS-1,3-DICHLOROPROPYLENE)	FL
EPA 624.1	TRICHLOROETHENE (TRICHLOROETHYLENE)	FL	EPA 624.1	TRICHLOROFLUOROMETHANE (FLUOROTRICHLOROMETHANE, FREON 11)	FL
EPA 624.1	VINYL CHLORIDE (CHLOROETHENE)	FL	EPA 624.1	XYLENE (TOTAL)	FL
EPA 625.1	1,2,4-TRICHLOROBENZENE	FL	EPA 625.1	2,4,6-TRICHLOROPHENOL	FL
EPA 625.1	2,4-DICHLOROPHENOL	FL	EPA 625.1	2,4-DIMETHYLPHENOL	FL
EPA 625.1	2,4-DINITROPHENOL	FL	EPA 625.1	2,4-DINITROTOLUENE (2,4-DNT)	FL
EPA 625.1	2,6-DINITROTOLUENE (2,6-DNT)	FL	EPA 625.1	2-CHLORONAPHTHALENE	FL
EPA 625.1	2-CHLOROPHENOL	FL	EPA 625.1	2-METHYL-4,6-DINITROPHENOL (4,6-DINITRO-2-METHYLPHENOL)	FL
EPA 625.1	2-NITROPHENOL	FL	EPA 625.1	3,3'-DICHLOROBENZIDINE	FL
EPA 625.1	4-BROMOPHENYL PHENYL ETHER (BDE-3)	FL	EPA 625.1	4-CHLORO-3-METHYLPHENOL	FL
EPA 625.1	4-CHLOROPHENYL PHENYLETHER	FL	EPA 625.1	4-NITROPHENOL	FL
EPA 625.1	ACENAPHTHENE	FL	EPA 625.1	ACENAPHTHYLENE	FL
EPA 625.1	ANTHRACENE	FL	EPA 625.1	BENZIDINE	FL
EPA 625.1	BENZO(A)ANTHRACENE	FL	EPA 625.1	BENZO(A)PYRENE	FL
EPA 625.1	BENZO(B)FLUORANTHENE	FL	EPA 625.1	BENZO(G,H,I)PERYLENE	FL
EPA 625.1	BENZO(K)FLUORANTHENE	FL	EPA 625.1	BIS(2-CHLOROETHOXY)METHANE	FL
EPA 625.1	BIS(2-CHLOROETHYL) ETHER	FL	EPA 625.1	BIS(2-ETHYLHEXYL) PHTHALATE (DI(2-ETHYLHEXYL)PHTHALATE), (DEHP)	FL
EPA 625.1	BUTYL BENZYL PHTHALATE	FL	EPA 625.1	CHRYSENE	FL
EPA 625.1	DI-N-BUTYL PHTHALATE	FL	EPA 625.1	DI-N-OCTYL PHTHALATE	FL
EPA 625.1	DIBENZO(A,H) ANTHRACENE	FL	EPA 625.1	DIETHYL PHTHALATE	FL
EPA 625.1	DIMETHYL PHTHALATE	FL	EPA 625.1	FLUORANTHENE	FL
EPA 625.1	FLUORENE	FL	EPA 625.1	HEXACHLOROBENZENE	FL
EPA 625.1	HEXACHLOROBUTADIENE (1,3-HEXACHLOROBUTADIENE)	FL	EPA 625.1	HEXACHLOROCYCLOPENTADIENE	FL
EPA 625.1	HEXACHLOROETHANE	FL	EPA 625.1	INDENO(1,2,3-CD) PYRENE	FL
EPA 625.1	ISOPHORONE	FL	EPA 625.1	N-NITROSODI-N-PROPYLAMINE	FL
EPA 625.1	N-NITROSODIMETHYLAMINE	FL	EPA 625.1	N-NITROSODIPHENYLAMINE	FL
EPA 625.1	NAPHTHALENE	FL	EPA 625.1	NITROBENZENE	FL
EPA 625.1	PENTACHLOROPHENOL	FL	EPA 625.1	PHENANTHRENE	FL
EPA 625.1	PHENOL	FL	EPA 625.1	PYRENE	FL
EPA 7196 A	CHROMIUM VI	FL	EPA 7470 A	MERCURY	FL
EPA 8011	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	FL	EPA 8011	1,2-DIBROMOETHANE (EDB, ETHYLENE DIBROMIDE)	FL
EPA 8015 C	DIESEL RANGE ORGANICS (DRO)	FL	EPA 8015 C	GASOLINE RANGE ORGANICS (GRO)	FL
EPA 8081 B	4,4'-DDD	FL	EPA 8081 B	4,4'-DDE	FL

Scope of Accreditation

VELAP Certificate No.: 12068

Pace Analytical Services, LLC - West Columbia SC
106 Vantage Point Drive
West Columbia, SC 29172

Virginia Laboratory ID: 460193
Effective Date: September 16, 2022
Expiration Date: September 14, 2023

NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY	METHOD	ANALYTE	PRIMARY
EPA 8081 B	4,4'-DDT	FL	EPA 8081 B	ALDRIN	FL
EPA 8081 B	ALPHA-BHC (ALPHA-HEXACHLOROCYCLOHEXANE)	FL	EPA 8081 B	ALPHA-CHLORDANE (CIS-CHLORDANE)	FL
EPA 8081 B	BETA-BHC (BETA-HEXACHLOROCYCLOHEXANE)	FL	EPA 8081 B	CHLORDANE, TOTAL	FL
EPA 8081 B	DELTA-BHC	FL	EPA 8081 B	DIELDRIN	FL
EPA 8081 B	ENDOSULFAN I	FL	EPA 8081 B	ENDOSULFAN II	FL
EPA 8081 B	ENDOSULFAN SULFATE	FL	EPA 8081 B	ENDRIN	FL
EPA 8081 B	ENDRIN ALDEHYDE	FL	EPA 8081 B	ENDRIN KETONE	FL
EPA 8081 B	GAMMA-BHC (LINDANE, GAMMA-HEXACHLOROCYCLOHEXANE)	FL	EPA 8081 B	GAMMA-CHLORDANE (BETA-CHLORDANE, TRANS-CHLORDANE)	FL
EPA 8081 B	HEPTACHLOR	FL	EPA 8081 B	HEPTACHLOR EPOXIDE	FL
EPA 8081 B	METHOXYCHLOR	FL	EPA 8081 B	TOXAPHENE (CHLORINATED CAMPHENE)	FL
EPA 8082 A	AROCLOR-1016 (PCB-1016)	FL	EPA 8082 A	AROCLOR-1221 (PCB-1221)	FL
EPA 8082 A	AROCLOR-1232 (PCB-1232)	FL	EPA 8082 A	AROCLOR-1242 (PCB-1242)	FL
EPA 8082 A	AROCLOR-1248 (PCB-1248)	FL	EPA 8082 A	AROCLOR-1254 (PCB-1254)	FL
EPA 8082 A	AROCLOR-1260 (PCB-1260)	FL	EPA 8082 A - EXTENDED	AROCLOR-1262 (PCB-1262)	FL
EPA 8082 A - EXTENDED	AROCLOR-1268 (PCB-1268)	FL	EPA 8151 A	2,4,5-T	FL
EPA 8151 A	2,4-D	FL	EPA 8151 A	2,4-DB	FL
EPA 8151 A	DICAMBA	FL	EPA 8151 A	DICHLOROPROP (DICHLORPROP)	FL
EPA 8151 A	DINOSEB (2-SEC-BUTYL-4,6-DINITROPHENOL, DNBP)	FL	EPA 8151 A	PENTACHLOROPHENOL	FL
EPA 8151 A	SILVEX (2,4,5-TP)	FL	EPA 8260 D	1,1,1,2-TETRACHLOROETHANE	FL
EPA 8260 D	1,1,1-TRICHLOROETHANE	FL	EPA 8260 D	1,1,2,2-TETRACHLOROETHANE	FL
EPA 8260 D	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113)	FL	EPA 8260 D	1,1,2-TRICHLOROETHANE	FL
EPA 8260 D	1,1-DICHLOROETHANE	FL	EPA 8260 D	1,1-DICHLOROETHYLENE	FL
EPA 8260 D	1,1-DICHLOROPROPENE	FL	EPA 8260 D	1,2,3-TRICHLOROBENZENE	FL
EPA 8260 D	1,2,3-TRICHLOROPROPANE	FL	EPA 8260 D	1,2,4-TRICHLOROBENZENE	FL
EPA 8260 D	1,2,4-TRIMETHYLBENZENE	FL	EPA 8260 D	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	FL
EPA 8260 D	1,2-DIBROMOETHANE (EDB, ETHYLENE DIBROMIDE)	FL	EPA 8260 D	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	FL
EPA 8260 D	1,2-DICHLOROETHANE (ETHYLENE DICHLORIDE)	FL	EPA 8260 D	1,2-DICHLOROPROPANE	FL
EPA 8260 D	1,3,5-TRIMETHYLBENZENE	FL	EPA 8260 D	1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	FL
EPA 8260 D	1,3-DICHLOROPROPANE	FL	EPA 8260 D	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	FL
EPA 8260 D	1,4-DIOXANE (P-DIOXANE /1,4-DIETHYLENEOXIDE)	FL	EPA 8260 D	2,2-DICHLOROPROPANE	FL



Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services



Scope of Accreditation

VELAP Certificate No.: 12068

Pace Analytical Services, LLC - West Columbia SC
106 Vantage Point Drive
West Columbia, SC 29172

Virginia Laboratory ID: 460193
Effective Date: September 16, 2022
Expiration Date: September 14, 2023

NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
EPA 8260 D	2-BUTANONE (METHYL ETHYL KETONE, MEK)	FL
EPA 8260 D	2-CHLOROTOLUENE	FL
EPA 8260 D	4-CHLOROTOLUENE	FL
EPA 8260 D	4-METHYL-2-PENTANONE (METHYL ISOBUTYL KETONE, MIBK)	FL
EPA 8260 D	ACETONITRILE	FL
EPA 8260 D	ACRYLONITRILE	FL
EPA 8260 D	BENZENE	FL
EPA 8260 D	BROMOBENZENE	FL
EPA 8260 D	BROMODICHLOROMETHANE	FL
EPA 8260 D	CARBON DISULFIDE	FL
EPA 8260 D	CHLOROBENZENE	FL
EPA 8260 D	CHLOROETHANE (ETHYL CHLORIDE)	FL
EPA 8260 D	CHLOROPRENE (2-CHLORO-1,3-BUTADIENE)	FL
EPA 8260 D	CIS-1,3-DICHLOROPROPENE	FL
EPA 8260 D	DI-ISOPROPYLETHER (DIPE, ISOPROPYL ETHER)	FL
EPA 8260 D	DICHLORODIFLUOROMETHANE (FREON-12)	FL
EPA 8260 D	ETHYL ACETATE	FL
EPA 8260 D	ETHYLBENZENE	FL
EPA 8260 D	IODOMETHANE (METHYL IODIDE)	FL
EPA 8260 D	ISOPROPYLBENZENE	FL
EPA 8260 D	METHACRYLONITRILE	FL
EPA 8260 D	METHYL BROMIDE (BROMOMETHANE)	FL
EPA 8260 D	METHYL METHACRYLATE	FL
EPA 8260 D	METHYLCYCLOHEXANE	FL
EPA 8260 D	N-BUTYLBENZENE	FL
EPA 8260 D	NAPHTHALENE	FL
EPA 8260 D	PROPIONITRILE (ETHYL CYANIDE)	FL
EPA 8260 D	STYRENE	FL
EPA 8260 D	TETRACHLOROETHENE (PERCHLOROETHENE)	FL
EPA 8260 D	TRANS-1,2-DICHLOROETHENE	FL
EPA 8260 D	TRANS-1,4-DICHLORO-2-BUTENE	FL
EPA 8260 D	2-CHLOROETHYL VINYL ETHER	FL
EPA 8260 D	2-HEXANONE	FL
EPA 8260 D	4-ISOPROPYLTOLUENE (P-CYMENE, P-ISOPROPYLTOLUENE)	FL
EPA 8260 D	ACETONE	FL
EPA 8260 D	ACROLEIN (PROPENAL)	FL
EPA 8260 D	ALLYL CHLORIDE (3-CHLOROPROPENE)	FL
EPA 8260 D	BENZYL CHLORIDE	FL
EPA 8260 D	BROMOCHLOROMETHANE	FL
EPA 8260 D	BROMOFORM	FL
EPA 8260 D	CARBON TETRACHLORIDE	FL
EPA 8260 D	CHLORODIBROMOMETHANE	FL
EPA 8260 D	CHLOROFORM	FL
EPA 8260 D	CIS-1,2-DICHLOROETHYLENE	FL
EPA 8260 D	CYCLOHEXANE	FL
EPA 8260 D	DIBROMOMETHANE (METHYLENE BROMIDE)	FL
EPA 8260 D	DIETHYL ETHER	FL
EPA 8260 D	ETHYL METHACRYLATE	FL
EPA 8260 D	HEXACHLOROBUTADIENE (1,3-HEXACHLOROBUTADIENE)	FL
EPA 8260 D	ISOBUTYL ALCOHOL (2-METHYL-1-PROPANOL)	FL
EPA 8260 D	M+P-XYLENE	FL
EPA 8260 D	METHYL ACETATE	FL
EPA 8260 D	METHYL CHLORIDE (CHLOROMETHANE)	FL
EPA 8260 D	METHYL TERT-BUTYL ETHER (MTBE)	FL
EPA 8260 D	METHYLENE CHLORIDE (DICHLOROMETHANE)	FL
EPA 8260 D	N-PROPYLBENZENE	FL
EPA 8260 D	O-XYLENE	FL
EPA 8260 D	SEC-BUTYLBENZENE	FL
EPA 8260 D	TERT-BUTYLBENZENE	FL
EPA 8260 D	TOLUENE	FL
EPA 8260 D	TRANS-1,3-DICHLOROPROPENE (TRANS-1,3-DICHLOROPROPYLENE)	FL

VELAP Certificate No.: 12068

Pace Analytical Services, LLC - West Columbia SC
106 Vantage Point Drive
West Columbia, SC 29172

Virginia Laboratory ID: 460193
Effective Date: September 16, 2022
Expiration Date: September 14, 2023

NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY	METHOD	ANALYTE	PRIMARY
EPA 8260 D	TRICHLOROETHENE (TRICHLOROETHYLENE)	FL	EPA 8260 D	TRICHLOROFLUOROMETHANE (FLUOROTRICHLOROMETHANE, FREON 11)	FL
EPA 8260 D	VINYL ACETATE	FL	EPA 8260 D	VINYL CHLORIDE (CHLOROETHENE)	FL
EPA 8260 D	XYLENE (TOTAL)	FL	EPA 8260 D - EXTENDED	CYCLOHEXANONE	FL
EPA 8260 D - EXTENDED	TETRAHYDROFURAN (THF)	FL	EPA 8270 E	1,1'-BIPHENYL (BZ-0)	FL
EPA 8270 E	1,2,4,5-TETRACHLOROBENZENE	FL	EPA 8270 E	1,2,4-TRICHLOROBENZENE	FL
EPA 8270 E	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	FL	EPA 8270 E	1,3,5-TRINITROBENZENE (1,3,5-TNB)	FL
EPA 8270 E	1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	FL	EPA 8270 E	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	FL
EPA 8270 E	1,4-NAPHTHOQUINONE	FL	EPA 8270 E	1-CHLORONAPHTHALENE	FL
EPA 8270 E	1-METHYLNAPHTHALENE	FL	EPA 8270 E	1-NAPHTHYLAMINE	FL
EPA 8270 E	2,3,4,6-TETRACHLOROPHENOL	FL	EPA 8270 E	2,4,5-TRICHLOROPHENOL	FL
EPA 8270 E	2,4,6-TRICHLOROPHENOL	FL	EPA 8270 E	2,4-DICHLOROPHENOL	FL
EPA 8270 E	2,4-DIMETHYLPHENOL	FL	EPA 8270 E	2,4-DINITROPHENOL	FL
EPA 8270 E	2,4-DINITROTOLUENE (2,4-DNT)	FL	EPA 8270 E	2,6-DICHLOROPHENOL	FL
EPA 8270 E	2,6-DINITROTOLUENE (2,6-DNT)	FL	EPA 8270 E	2-ACETYLAMINOFLUORENE	FL
EPA 8270 E	2-CHLORONAPHTHALENE	FL	EPA 8270 E	2-CHLOROPHENOL	FL
EPA 8270 E	2-METHYL-4,6-DINITROPHENOL (4,6-DINITRO-2-METHYLPHENOL)	FL	EPA 8270 E	2-METHYLNAPHTHALENE	FL
EPA 8270 E	2-METHYLPHENOL (O-CRESOL)	FL	EPA 8270 E	2-NAPHTHYLAMINE	FL
EPA 8270 E	2-NITROANILINE	FL	EPA 8270 E	2-NITROPHENOL	FL
EPA 8270 E	2-PICOLINE (2-METHYLPYRIDINE)	FL	EPA 8270 E	3+4-METHYLPHENOL (M+P CRESOL)	FL
EPA 8270 E	3,3'-DICHLOROBENZIDINE	FL	EPA 8270 E	3-METHYLCHOLANTHRENE	FL
EPA 8270 E	3-NITROANILINE	FL	EPA 8270 E	4-AMINOBIPHENYL	FL
EPA 8270 E	4-BROMOPHENYL PHENYL ETHER (BDE-3)	FL	EPA 8270 E	4-CHLORO-3-METHYLPHENOL	FL
EPA 8270 E	4-CHLOROANILINE	FL	EPA 8270 E	4-CHLOROPHENYL PHENYLETHER	FL
EPA 8270 E	4-NITROANILINE	FL	EPA 8270 E	4-NITROPHENOL	FL
EPA 8270 E	5-NITRO-O-TOLUIDINE	FL	EPA 8270 E	7,12-DIMETHYLBENZ(A) ANTHRACENE	FL
EPA 8270 E	ACENAPHTHENE	FL	EPA 8270 E	ACENAPHTHYLENE	FL
EPA 8270 E	ACETOPHENONE	FL	EPA 8270 E	ANTHRACENE	FL
EPA 8270 E	ATRAZINE	FL	EPA 8270 E	BENZALDEHYDE	FL
EPA 8270 E	BENZIDINE	FL	EPA 8270 E	BENZO(A)ANTHRACENE	FL
EPA 8270 E	BENZO(A)PYRENE	FL	EPA 8270 E	BENZO(B)FLUORANTHENE	FL
EPA 8270 E	BENZO(G,H,I)PERYLENE	FL	EPA 8270 E	BENZO(K)FLUORANTHENE	FL
EPA 8270 E	BENZOIC ACID	FL	EPA 8270 E	BENZYL ALCOHOL	FL
EPA 8270 E	BIS(2-CHLOROETHOXY)METHANE	FL	EPA 8270 E	BIS(2-CHLOROETHYL) ETHER	FL



Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services



Scope of Accreditation

VELAP Certificate No.: 12068

Pace Analytical Services, LLC - West Columbia SC
106 Vantage Point Drive
West Columbia, SC 29172

Virginia Laboratory ID: 460193
Effective Date: September 16, 2022
Expiration Date: September 14, 2023

NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY	METHOD	ANALYTE	PRIMARY
EPA 8270 E	BIS(2-ETHYLHEXYL) PHTHALATE (DI(2-ETHYLHEXYL)PHTHALATE), (DEHP)	FL	EPA 8270 E	BUTYL BENZYL PHTHALATE	FL
EPA 8270 E	CAPROLACTAM	FL	EPA 8270 E	CARBAZOLE	FL
EPA 8270 E	CHLOROBENZILATE	FL	EPA 8270 E	CHRYSENE	FL
EPA 8270 E	DI-N-BUTYL PHTHALATE	FL	EPA 8270 E	DI-N-OCTYL PHTHALATE	FL
EPA 8270 E	DIBENZO(A,H) ANTHRACENE	FL	EPA 8270 E	DIBENZOFURAN	FL
EPA 8270 E	DIETHYL PHTHALATE	FL	EPA 8270 E	DIMETHOATE	FL
EPA 8270 E	DIMETHYL PHTHALATE	FL	EPA 8270 E	DISULFOTON	FL
EPA 8270 E	ETHYL METHANESULFONATE	FL	EPA 8270 E	FLUORANTHENE	FL
EPA 8270 E	FLUORENE	FL	EPA 8270 E	HEXACHLOROBENZENE	FL
EPA 8270 E	HEXACHLOROBUTADIENE (1,3-HEXACHLOROBUTADIENE)	FL	EPA 8270 E	HEXACHLOROCYCLOPENTADIENE	FL
EPA 8270 E	HEXACHLOROETHANE	FL	EPA 8270 E	HEXACHLOROPROPENE	FL
EPA 8270 E	INDENO(1,2,3-CD) PYRENE	FL	EPA 8270 E	ISODRIN	FL
EPA 8270 E	ISOPHORONE	FL	EPA 8270 E	ISOSAFROLE	FL
EPA 8270 E	METHYL METHANESULFONATE	FL	EPA 8270 E	METHYL PARATHION (PARATHION, METHYL)	FL
EPA 8270 E	N-NITROSO-DI-N-BUTYLAMINE	FL	EPA 8270 E	N-NITROSODI-N-PROPYLAMINE	FL
EPA 8270 E	N-NITROSODIETHYLAMINE	FL	EPA 8270 E	N-NITROSODIMETHYLAMINE	FL
EPA 8270 E	N-NITROSODIPHENYLAMINE	FL	EPA 8270 E	N-NITROSOMETHYLETHYLAMINE	FL
EPA 8270 E	N-NITROSOMORPHOLINE	FL	EPA 8270 E	N-NITROSOPIPERIDINE	FL
EPA 8270 E	N-NITROSOPYRROLIDINE	FL	EPA 8270 E	NAPHTHALENE	FL
EPA 8270 E	NITROBENZENE	FL	EPA 8270 E	O,O,O-TRIETHYL PHOSPHOROTHIOATE	FL
EPA 8270 E	PARATHION (PARATHION - ETHYL)	FL	EPA 8270 E	PENTACHLOROBENZENE	FL
EPA 8270 E	PENTACHLORONITROBENZENE	FL	EPA 8270 E	PENTACHLOROPHENOL	FL
EPA 8270 E	PHENACETIN	FL	EPA 8270 E	PHENANTHRENE	FL
EPA 8270 E	PHENOL	FL	EPA 8270 E	PHORATE	FL
EPA 8270 E	PRONAMIDE (KERB)	FL	EPA 8270 E	PYRENE	FL
EPA 8270 E	PYRIDINE	FL	EPA 8270 E	SAFROLE	FL
EPA 8270 E	THIONAZIN (ZINOPHOS, DIETHYL-O-2-PYRAZINYL PHOSPHOROTHIONATE)	FL	EPA 8270 E - EXTENDED	2,2'-OXYBIS(1-CHLOROPROPANE)	FL
EPA 8270 E - EXTENDED	4-DIMETHYL AMINOAZOBENZENE	FL	EPA 8270 E - EXTENDED	PENTACHLOROETHANE	FL
EPA 9012 B	CYANIDE, TOTAL	FL	EPA 9040 C	PH	FL
EPA 9056 A	BROMIDE	FL	EPA 9056 A	CHLORIDE	FL
EPA 9056 A	FLUORIDE	FL	EPA 9056 A	NITRATE AS N	FL
EPA 9056 A	NITRITE AS N	FL	EPA 9056 A	SULFATE	FL
EPA 9065	TOTAL PHENOLICS	FL	SM 2120 B-2011	COLOR	FL
SM 2320 B-2011	ALKALINITY AS CACO3	FL	SM 2340 C-2011	TOTAL HARDNESS AS CACO3	FL
SM 2540 B-2011	RESIDUE-TOTAL (TS)	FL	SM 2540 C-2011	RESIDUE-FILTERABLE (TDS)	FL



Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services



Scope of Accreditation

VELAP Certificate No.: 12068

Pace Analytical Services, LLC - West Columbia SC
106 Vantage Point Drive
West Columbia, SC 29172

Virginia Laboratory ID: 460193
Effective Date: September 16, 2022
Expiration Date: September 14, 2023

NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY	METHOD	ANALYTE	PRIMARY
SM 2540 D-2011	RESIDUE-NONFILTERABLE (TSS)	FL	SM 3500-CR B-2011	CHROMIUM VI	FL
SM 4500-$S2^-$ F-2011	SULFIDE	FL	SM 5210 B-2011	BIOCHEMICAL OXYGEN DEMAND (BOD)	FL
SM 5210 B-2011	CARBONACEOUS BOD (CBOD)	FL	SM 5220 D-2011	CHEMICAL OXYGEN DEMAND (COD)	FL
SM 5310 C-2011	TOTAL ORGANIC CARBON (TOC)	FL			

SOLID AND CHEMICAL MATERIALS

METHOD	ANALYTE	PRIMARY	METHOD	ANALYTE	PRIMARY
EPA 1010 A	FLASHPOINT	FL	EPA 1311	PREP: TOXICITY CHARACTERISTIC LEACHING PROCEDURE	FL
EPA 1312	PREP: SYNTHETIC PRECIPITATION LEACHING PROCEDURE	FL	EPA 6010 C	ALUMINUM	FL
EPA 6010 C	ANTIMONY	FL	EPA 6010 C	ARSENIC	FL
EPA 6010 C	BARIUM	FL	EPA 6010 C	BERYLLIUM	FL
EPA 6010 C	BORON	FL	EPA 6010 C	CADMIUM	FL
EPA 6010 C	CALCIUM	FL	EPA 6010 C	CHROMIUM	FL
EPA 6010 C	COBALT	FL	EPA 6010 C	COPPER	FL
EPA 6010 C	IRON	FL	EPA 6010 C	LEAD	FL
EPA 6010 C	MAGNESIUM	FL	EPA 6010 C	MANGANESE	FL
EPA 6010 C	MOLYBDENUM	FL	EPA 6010 C	NICKEL	FL
EPA 6010 C	POTASSIUM	FL	EPA 6010 C	SELENIUM	FL
EPA 6010 C	SILVER	FL	EPA 6010 C	SODIUM	FL
EPA 6010 C	THALLIUM	FL	EPA 6010 C	TIN	FL
EPA 6010 C	TITANIUM	FL	EPA 6010 C	VANADIUM	FL
EPA 6010 C	ZINC	FL	EPA 6010 D	ALUMINUM	FL
EPA 6010 D	ANTIMONY	FL	EPA 6010 D	ARSENIC	FL
EPA 6010 D	BARIUM	FL	EPA 6010 D	BERYLLIUM	FL
EPA 6010 D	BORON	FL	EPA 6010 D	CADMIUM	FL
EPA 6010 D	CALCIUM	FL	EPA 6010 D	CHROMIUM	FL
EPA 6010 D	COBALT	FL	EPA 6010 D	COPPER	FL
EPA 6010 D	IRON	FL	EPA 6010 D	LEAD	FL
EPA 6010 D	MAGNESIUM	FL	EPA 6010 D	MANGANESE	FL
EPA 6010 D	MOLYBDENUM	FL	EPA 6010 D	NICKEL	FL
EPA 6010 D	POTASSIUM	FL	EPA 6010 D	SELENIUM	FL
EPA 6010 D	SILVER	FL	EPA 6010 D	SODIUM	FL
EPA 6010 D	THALLIUM	FL	EPA 6010 D	TIN	FL
EPA 6010 D	TITANIUM	FL	EPA 6010 D	VANADIUM	FL
EPA 6010 D	ZINC	FL	EPA 6020 B	ALUMINUM	FL
EPA 6020 B	ANTIMONY	FL	EPA 6020 B	ARSENIC	FL
EPA 6020 B	BARIUM	FL	EPA 6020 B	BERYLLIUM	FL
EPA 6020 B	CADMIUM	FL	EPA 6020 B	CALCIUM	FL



Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services



Scope of Accreditation

VELAP Certificate No.: 12068

Pace Analytical Services, LLC - West Columbia SC
106 Vantage Point Drive
West Columbia, SC 29172

Virginia Laboratory ID: 460193
Effective Date: September 16, 2022
Expiration Date: September 14, 2023

SOLID AND CHEMICAL MATERIALS

METHOD	ANALYTE	PRIMARY	METHOD	ANALYTE	PRIMARY
EPA 6020 B	CHROMIUM	FL	EPA 6020 B	COBALT	FL
EPA 6020 B	COPPER	FL	EPA 6020 B	IRON	FL
EPA 6020 B	LEAD	FL	EPA 6020 B	MAGNESIUM	FL
EPA 6020 B	MANGANESE	FL	EPA 6020 B	NICKEL	FL
EPA 6020 B	POTASSIUM	FL	EPA 6020 B	SELENIUM	FL
EPA 6020 B	SILVER	FL	EPA 6020 B	SODIUM	FL
EPA 6020 B	THALLIUM	FL	EPA 6020 B	VANADIUM	FL
EPA 6020 B	ZINC	FL	EPA 7196 A	CHROMIUM VI	FL
EPA 7471 B	MERCURY	FL	EPA 8015 C	DIESEL RANGE ORGANICS (DRO)	FL
EPA 8015 C	GASOLINE RANGE ORGANICS (GRO)	FL	EPA 8081 B	4,4'-DDD	FL
EPA 8081 B	4,4'-DDE	FL	EPA 8081 B	4,4'-DDT	FL
EPA 8081 B	ALDRIN	FL	EPA 8081 B	ALPHA-BHC (ALPHA-HEXACHLOROCYCLOHEXANE)	FL
EPA 8081 B	ALPHA-CHLORDANE (CIS-CHLORDANE)	FL	EPA 8081 B	BETA-BHC (BETA-HEXACHLOROCYCLOHEXANE)	FL
EPA 8081 B	CHLORDANE, TOTAL	FL	EPA 8081 B	DELTA-BHC	FL
EPA 8081 B	DIELDRIN	FL	EPA 8081 B	ENDOSULFAN I	FL
EPA 8081 B	ENDOSULFAN II	FL	EPA 8081 B	ENDOSULFAN SULFATE	FL
EPA 8081 B	ENDRIN	FL	EPA 8081 B	ENDRIN ALDEHYDE	FL
EPA 8081 B	ENDRIN KETONE	FL	EPA 8081 B	GAMMA-BHC (LINDANE, GAMMA-HEXACHLOROCYCLOHEXANE)	FL
EPA 8081 B	GAMMA-CHLORDANE (BETA-CHLORDANE, TRANS-CHLORDANE)	FL	EPA 8081 B	HEPTACHLOR	FL
EPA 8081 B	HEPTACHLOR EPOXIDE	FL	EPA 8081 B	METHOXYCHLOR	FL
EPA 8081 B	TOXAPHENE (CHLORINATED CAMPHENE)	FL	EPA 8082 A	AROCLOR-1016 (PCB-1016)	FL
EPA 8082 A	AROCLOR-1221 (PCB-1221)	FL	EPA 8082 A	AROCLOR-1232 (PCB-1232)	FL
EPA 8082 A	AROCLOR-1242 (PCB-1242)	FL	EPA 8082 A	AROCLOR-1248 (PCB-1248)	FL
EPA 8082 A	AROCLOR-1254 (PCB-1254)	FL	EPA 8082 A	AROCLOR-1260 (PCB-1260)	FL
EPA 8082 A - EXTENDED	AROCLOR-1262 (PCB-1262)	FL	EPA 8082 A - EXTENDED	AROCLOR-1268 (PCB-1268)	FL
EPA 8151 A	2,4,5-T	FL	EPA 8151 A	2,4-D	FL
EPA 8151 A	DINOSEB (2-SEC-BUTYL-4,6-DINITROPHENOL, DNBP)	FL	EPA 8151 A	PENTACHLOROPHENOL	FL
EPA 8151 A	SILVEX (2,4,5-TP)	FL	EPA 8260 D	1,1,1,2-TETRACHLOROETHANE	FL
EPA 8260 D	1,1,1-TRICHLOROETHANE	FL	EPA 8260 D	1,1,2,2-TETRACHLOROETHANE	FL
EPA 8260 D	1,1,2-TRICHLORO-1,2,2-TRIFLUORO ETHANE (FREON 113)	FL	EPA 8260 D	1,1,2-TRICHLOROETHANE	FL
EPA 8260 D	1,1-DICHLOROETHANE	FL	EPA 8260 D	1,1-DICHLOROETHYLENE	FL
EPA 8260 D	1,1-DICHLOROPROPENE	FL			



Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services



Scope of Accreditation

VELAP Certificate No.: 12068

Pace Analytical Services, LLC - West Columbia SC
106 Vantage Point Drive
West Columbia, SC 29172

Virginia Laboratory ID: 460193
Effective Date: September 16, 2022
Expiration Date: September 14, 2023

SOLID AND CHEMICAL MATERIALS

METHOD	ANALYTE	PRIMARY
EPA 8260 D	1,2,3-TRICHLOROBENZENE	FL
EPA 8260 D	1,2,4-TRICHLOROBENZENE	FL
EPA 8260 D	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	FL
EPA 8260 D	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	FL
EPA 8260 D	1,2-DICHLOROPROPANE	FL
EPA 8260 D	1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	FL
EPA 8260 D	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	FL
EPA 8260 D	2,2-DICHLOROPROPANE	FL
EPA 8260 D	2-CHLOROETHYL VINYL ETHER	FL
EPA 8260 D	2-HEXANONE	FL
EPA 8260 D	4-ISOPROPYLTOLUENE (P-CYMENE, P-ISOPROPYLTOLUENE)	FL
EPA 8260 D	ACETONE	FL
EPA 8260 D	ACROLEIN (PROPENAL)	FL
EPA 8260 D	ALLYL CHLORIDE (3-CHLOROPROPENE)	FL
EPA 8260 D	BENZYL CHLORIDE	FL
EPA 8260 D	BROMOCHLOROMETHANE	FL
EPA 8260 D	BROMOFORM	FL
EPA 8260 D	CARBON TETRACHLORIDE	FL
EPA 8260 D	CHLORODIBROMOMETHANE	FL
EPA 8260 D	CHLOROFORM	FL
EPA 8260 D	CIS-1,2-DICHLOROETHYLENE	FL
EPA 8260 D	CYCLOHEXANE	FL
EPA 8260 D	DIBROMOMETHANE (METHYLENE BROMIDE)	FL
EPA 8260 D	DIETHYL ETHER	FL
EPA 8260 D	ETHYL METHACRYLATE	FL
EPA 8260 D	HEXACHLOROBUTADIENE (1,3-HEXACHLOROBUTADIENE)	FL
EPA 8260 D	ISOBUTYL ALCOHOL (2-METHYL-1-PROPANOL)	FL
EPA 8260 D	METHACRYLONITRILE	FL
EPA 8260 D	METHYL BROMIDE (BROMOMETHANE)	FL
EPA 8260 D	METHYL METHACRYLATE	FL
EPA 8260 D	METHYLCYCLOHEXANE	FL
EPA 8260 D	1,2,3-TRICHLOROPROPANE	FL
EPA 8260 D	1,2,4-TRIMETHYLBENZENE	FL
EPA 8260 D	1,2-DIBROMOETHANE (EDB, ETHYLENE DIBROMIDE)	FL
EPA 8260 D	1,2-DICHLOROETHANE (ETHYLENE DICHLORIDE)	FL
EPA 8260 D	1,3,5-TRIMETHYLBENZENE	FL
EPA 8260 D	1,3-DICHLOROPROPANE	FL
EPA 8260 D	1,4-DIOXANE (P-DIOXANE /1,4-DIETHYLENEOXIDE)	FL
EPA 8260 D	2-BUTANONE (METHYL ETHYL KETONE, MEK)	FL
EPA 8260 D	2-CHLOROTOLUENE	FL
EPA 8260 D	4-CHLOROTOLUENE	FL
EPA 8260 D	4-METHYL-2-PENTANONE (METHYL ISOBUTYL KETONE, MIBK)	FL
EPA 8260 D	ACETONITRILE	FL
EPA 8260 D	ACRYLONITRILE	FL
EPA 8260 D	BENZENE	FL
EPA 8260 D	BROMOBENZENE	FL
EPA 8260 D	BROMODICHLOROMETHANE	FL
EPA 8260 D	CARBON DISULFIDE	FL
EPA 8260 D	CHLOROBENZENE	FL
EPA 8260 D	CHLOROETHANE (ETHYL CHLORIDE)	FL
EPA 8260 D	CHLOROPRENE (2-CHLORO-1,3-BUTADIENE)	FL
EPA 8260 D	CIS-1,3-DICHLOROPROPENE	FL
EPA 8260 D	DI-ISOPROPYLETHER (DIPE, ISOPROPYL ETHER)	FL
EPA 8260 D	DICHLORODIFLUOROMETHANE (FREON-12)	FL
EPA 8260 D	ETHYL ACETATE	FL
EPA 8260 D	ETHYLBENZENE	FL
EPA 8260 D	IODOMETHANE (METHYL IODIDE)	FL
EPA 8260 D	ISOPROPYLBENZENE	FL
EPA 8260 D	METHYL ACETATE	FL
EPA 8260 D	METHYL CHLORIDE (CHLOROMETHANE)	FL
EPA 8260 D	METHYL TERT-BUTYL ETHER (MTBE)	FL



Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services



Scope of Accreditation

VELAP Certificate No.: 12068

Pace Analytical Services, LLC - West Columbia SC
106 Vantage Point Drive
West Columbia, SC 29172

Virginia Laboratory ID: 460193
Effective Date: September 16, 2022
Expiration Date: September 14, 2023

SOLID AND CHEMICAL MATERIALS

METHOD	ANALYTE	PRIMARY
EPA 8260 D	METHYLENE CHLORIDE (DICHLOROMETHANE)	FL
EPA 8260 D	N-PROPYLBENZENE	FL
EPA 8260 D	PROPIONITRILE (ETHYL CYANIDE)	FL
EPA 8260 D	STYRENE	FL
EPA 8260 D	TETRACHLOROETHENE (PERCHLOROETHENE)	FL
EPA 8260 D	TRANS-1,2-DICHLOROETHENE	FL
EPA 8260 D	TRANS-1,4-DICHLORO-2-BUTENE	FL
EPA 8260 D	TRICHLOROFLUOROMETHANE (FLUOROTRICHLOROMETHANE, FREON 11)	FL
EPA 8260 D	VINYL CHLORIDE (CHLOROETHENE)	FL
EPA 8260 D - EXTENDED	CYCLOHEXANONE	FL
EPA 8260 D - EXTENDED	TETRAHYDROFURAN (THF)	FL
EPA 8270 E	1,2,4,5-TETRACHLOROBENZENE	FL
EPA 8270 E	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	FL
EPA 8270 E	1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	FL
EPA 8270 E	1,4-DIOXANE (P-DIOXANE /1,4-DIETHYLENEOXIDE)	FL
EPA 8270 E	1-CHLORONAPHTHALENE	FL
EPA 8270 E	1-NAPHTHYLAMINE	FL
EPA 8270 E	2,4,5-TRICHLOROPHENOL	FL
EPA 8270 E	2,4-DICHLOROPHENOL	FL
EPA 8270 E	2,4-DINITROPHENOL	FL
EPA 8270 E	2,6-DICHLOROPHENOL	FL
EPA 8270 E	2-ACETYLAMINOFLUORENE	FL
EPA 8270 E	2-CHLOROPHENOL	FL
EPA 8270 E	2-METHYLNAPHTHALENE	FL
EPA 8270 E	2-NAPHTHYLAMINE	FL
EPA 8270 E	2-NITROPHENOL	FL
EPA 8270 E	3+4-METHYLPHENOL (M+P CRESOL)	FL
EPA 8270 E	3-METHYLCHOLANTHRENE	FL
EPA 8270 E	4-AMINOBIPHENYL	FL
EPA 8270 E	4-CHLORO-3-METHYLPHENOL	FL
EPA 8270 E	4-CHLOROPHENYL PHENYLETHER	FL
EPA 8270 E	4-NITROPHENOL	FL
EPA 8260 D	N-BUTYLBENZENE	FL
EPA 8260 D	NAPHTHALENE	FL
EPA 8260 D	SEC-BUTYLBENZENE	FL
EPA 8260 D	TERT-BUTYLBENZENE	FL
EPA 8260 D	TOLUENE	FL
EPA 8260 D	TRANS-1,3-DICHLOROPROPENE (TRANS-1,3-DICHLOROPROPYLENE)	FL
EPA 8260 D	TRICHLOROETHENE (TRICHLOROETHYLENE)	FL
EPA 8260 D	VINYL ACETATE	FL
EPA 8260 D	XYLENE (TOTAL)	FL
EPA 8260 D - EXTENDED	N-HEXANE	FL
EPA 8270 E	1,1'-BIPHENYL (BZ-0)	FL
EPA 8270 E	1,2,4-TRICHLOROBENZENE	FL
EPA 8270 E	1,3,5-TRINITROBENZENE (1,3,5-TNB)	FL
EPA 8270 E	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	FL
EPA 8270 E	1,4-NAPHTHOQUINONE	FL
EPA 8270 E	1-METHYLNAPHTHALENE	FL
EPA 8270 E	2,3,4,6-TETRACHLOROPHENOL	FL
EPA 8270 E	2,4,6-TRICHLOROPHENOL	FL
EPA 8270 E	2,4-DIMETHYLPHENOL	FL
EPA 8270 E	2,4-DINITROTOLUENE (2,4-DNT)	FL
EPA 8270 E	2,6-DINITROTOLUENE (2,6-DNT)	FL
EPA 8270 E	2-CHLORONAPHTHALENE	FL
EPA 8270 E	2-METHYL-4,6-DINITROPHENOL (4,6-DINITRO-2-METHYLPHENOL)	FL
EPA 8270 E	2-METHYLPHENOL (O-CRESOL)	FL
EPA 8270 E	2-NITROANILINE	FL
EPA 8270 E	2-PICOLINE (2-METHYLPYRIDINE)	FL
EPA 8270 E	3,3'-DICHLOROBENZIDINE	FL
EPA 8270 E	3-NITROANILINE	FL
EPA 8270 E	4-BROMOPHENYL PHENYL ETHER (BDE-3)	FL
EPA 8270 E	4-CHLOROANILINE	FL
EPA 8270 E	4-NITROANILINE	FL
EPA 8270 E	5-NITRO-O-TOLUIDINE	FL



Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services



Scope of Accreditation

VELAP Certificate No.: 12068

Pace Analytical Services, LLC - West Columbia SC
106 Vantage Point Drive
West Columbia, SC 29172

Virginia Laboratory ID: 460193
Effective Date: September 16, 2022
Expiration Date: September 14, 2023

SOLID AND CHEMICAL MATERIALS

METHOD	ANALYTE	PRIMARY
EPA 8270 E	7,12-DIMETHYLBENZ(A) ANTHRACENE	FL
EPA 8270 E	ACENAPHTHYLENE	FL
EPA 8270 E	ANTHRACENE	FL
EPA 8270 E	BENZALDEHYDE	FL
EPA 8270 E	BENZO(A)ANTHRACENE	FL
EPA 8270 E	BENZO(B)FLUORANTHENE	FL
EPA 8270 E	BENZO(K)FLUORANTHENE	FL
EPA 8270 E	BENZYL ALCOHOL	FL
EPA 8270 E	BIS(2-CHLOROETHYL) ETHER	FL
EPA 8270 E	BUTYL BENZYL PHTHALATE	FL
EPA 8270 E	CARBAZOLE	FL
EPA 8270 E	CHRYSENE	FL
EPA 8270 E	DI-N-OCTYL PHTHALATE	FL
EPA 8270 E	DIBENZOFURAN	FL
EPA 8270 E	DIMETHYL PHTHALATE	FL
EPA 8270 E	FLUORANTHENE	FL
EPA 8270 E	HEXACHLOROBENZENE	FL
EPA 8270 E	HEXACHLOROCYCLOPENTADIENE	FL
EPA 8270 E	INDENO(1,2,3-CD) PYRENE	FL
EPA 8270 E	ISOPHORONE	FL
EPA 8270 E	METHYL METHANESULFONATE	FL
EPA 8270 E	N-NITROSODI-N-PROPYLAMINE	FL
EPA 8270 E	N-NITROSODIMETHYLAMINE	FL
EPA 8270 E	N-NITROSOMETHYLETHYLAMINE	FL
EPA 8270 E	N-NITROSOPIPERIDINE	FL
EPA 8270 E	NAPHTHALENE	FL
EPA 8270 E	O-TOLUIDINE (2-METHYLANILINE)	FL
EPA 8270 E	PENTACHLORONITROBENZENE	FL
EPA 8270 E	PHENACETIN	FL
EPA 8270 E	PHENOL	FL
EPA 8270 E	PYRENE	FL
EPA 8270 E	SAFROLE	FL
EPA 8270 E - EXTENDED	4-DIMETHYL AMINOAZOBENZENE	FL
EPA 9012 B	CYANIDE, TOTAL	FL
EPA 9045 D	PH	FL
EPA 8270 E	ACENAPHTHENE	FL
EPA 8270 E	ACETOPHENONE	FL
EPA 8270 E	ATRAZINE	FL
EPA 8270 E	BENZIDINE	FL
EPA 8270 E	BENZO(A)PYRENE	FL
EPA 8270 E	BENZO(G,H,I)PERYLENE	FL
EPA 8270 E	BENZOIC ACID	FL
EPA 8270 E	BIS(2-CHLOROETHOXY)METHANE	FL
EPA 8270 E	BIS(2-ETHYLHEXYL) PHTHALATE (DI(2-ETHYLHEXYL)PHTHALATE), (DEHP)	FL
EPA 8270 E	CAPROLACTAM	FL
EPA 8270 E	CHLOROBENZILATE	FL
EPA 8270 E	DI-N-BUTYL PHTHALATE	FL
EPA 8270 E	DIBENZO(A,H) ANTHRACENE	FL
EPA 8270 E	DIETHYL PHTHALATE	FL
EPA 8270 E	ETHYL METHANESULFONATE	FL
EPA 8270 E	FLUORENE	FL
EPA 8270 E	HEXACHLOROBUTADIENE (1,3-HEXACHLOROBUTADIENE)	FL
EPA 8270 E	HEXACHLOROETHANE	FL
EPA 8270 E	ISODRIN	FL
EPA 8270 E	ISOSAFROLE	FL
EPA 8270 E	N-NITROSO-DI-N-BUTYLAMINE	FL
EPA 8270 E	N-NITROSODIETHYLAMINE	FL
EPA 8270 E	N-NITROSODIPHENYLAMINE	FL
EPA 8270 E	N-NITROSOMORPHOLINE	FL
EPA 8270 E	N-NITROSOPYRROLIDINE	FL
EPA 8270 E	NITROBENZENE	FL
EPA 8270 E	PENTACHLOROBENZENE	FL
EPA 8270 E	PENTACHLOROPHENOL	FL
EPA 8270 E	PHENANTHRENE	FL
EPA 8270 E	PRONAMIDE (KERB)	FL
EPA 8270 E	PYRIDINE	FL
EPA 8270 E - EXTENDED	2,2'-OXYBIS(1-CHLOROPROPANE)	FL
EPA 8270 E - EXTENDED	PENTACHLOROETHANE	FL
EPA 9045 C	PH	FL
EPA 9071 B	OIL AND GREASE (AS N-HEXANE EXTRACTABLE MATERIAL (HEM))	FL