

ANALYTICAL REPORT

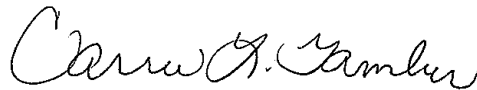
Job Number: 180-97133-1

Job Description: fYNOP

For:

Groundwater Sciences Corporation
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Attention: Christopher O'Neil



Approved for release.
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10/25/2019 9:34 AM

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10/25/2019

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Definitions/Glossary

Client: Groundwater Sciences Corporation
Project/Site: FYNOP

Job ID: 180-97133-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
^c	CCV Recovery is outside acceptance limits.
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

CASE NARRATIVE

Client: Groundwater Sciences Corporation

Project: fYNOP

Report Number: 180-97133-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 10/11/2019; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.6 C.

VOLATILES

The following sample was diluted to bring the concentration of target analytes within the calibration range: HD-MW-115-0/1-0 (180-97133-6). Elevated reporting limits (RLs) are provided.

The continuing calibration verification (CCV) analyzed in 180-295765 was outside the method criteria high for the following analytes: 2-Hexanone, 4-Methyl-2-pentanone, Acrylonitrile, Chloroethane and Chloromethane. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analytes is considered estimated.

Detection Summary

Client: Groundwater Sciences Corporation
Project/Site: FYNOP

Job ID: 180-97133-1

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

Lab Sample ID: 180-97133-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.99	J	1.0	0.71	ug/L	1		EPA 8260C	Total/NA
Trichloroethene	1.2		1.0	0.69	ug/L	1		EPA 8260C	Total/NA
Tetrachloroethene	3.0		1.0	0.47	ug/L	1		EPA 8260C	Total/NA

Client Sample ID: HD-MW-6-0/1-0

Lab Sample ID: 180-97133-2

No Detections.

Client Sample ID: HD-MW-5-0/1-0

Lab Sample ID: 180-97133-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.4		1.0	0.71	ug/L	1		EPA 8260C	Total/NA

Client Sample ID: HD-MW-111-0/1-0

Lab Sample ID: 180-97133-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.7		1.0	0.71	ug/L	1		EPA 8260C	Total/NA

Client Sample ID: HD-MW-79-0/1-0

Lab Sample ID: 180-97133-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	2.9		1.0	0.63	ug/L	1		EPA 8260C	Total/NA
cis-1,2-Dichloroethene	6.2		1.0	0.71	ug/L	1		EPA 8260C	Total/NA

Client Sample ID: HD-MW-115-0/1-0

Lab Sample ID: 180-97133-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	99	E	1.0	0.88	ug/L	1		EPA 8260C	Total/NA
1,1-Dichloroethene	3.1		1.0	0.55	ug/L	1		EPA 8260C	Total/NA
Acetone	4.2	J	5.0	3.4	ug/L	1		EPA 8260C	Total/NA
Methyl tert-butyl ether	28		1.0	0.59	ug/L	1		EPA 8260C	Total/NA
1,1-Dichloroethane	20		1.0	0.63	ug/L	1		EPA 8260C	Total/NA
cis-1,2-Dichloroethene	160	E	1.0	0.71	ug/L	1		EPA 8260C	Total/NA
Benzene	9.3		1.0	0.60	ug/L	1		EPA 8260C	Total/NA
1,2-Dichloroethane	1.5		1.0	0.57	ug/L	1		EPA 8260C	Total/NA
Vinyl chloride - DL	67		10	8.8	ug/L	10		EPA 8260C	Total/NA
Methyl tert-butyl ether - DL	26		10	5.9	ug/L	10		EPA 8260C	Total/NA
1,1-Dichloroethane - DL	13		10	6.3	ug/L	10		EPA 8260C	Total/NA
cis-1,2-Dichloroethene - DL	150		10	7.1	ug/L	10		EPA 8260C	Total/NA
Benzene - DL	7.7	J	10	6.0	ug/L	10		EPA 8260C	Total/NA

Client Sample ID: HD-MW-88-0/1-0

Lab Sample ID: 180-97133-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	1.0		1.0	0.47	ug/L	1		EPA 8260C	Total/NA

Client Sample ID: HD-QC8-0/1-2

Lab Sample ID: 180-97133-8

No Detections.

This Detection Summary does not include radiochemical test results.

Euofins TestAmerica, Pittsburgh

Client Sample Results

Client: Groundwater Sciences Corporation
 Project/Site: fYNOP

Job ID: 180-97133-1

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

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

Date Collected: 10/09/19 08:40

Date Received: 10/11/19 09:00

Lab Sample ID: 180-97133-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0	0.90	ug/L			10/19/19 17:02	1
Vinyl chloride	ND		1.0	0.88	ug/L			10/19/19 17:02	1
Bromomethane	ND		1.0	0.89	ug/L			10/19/19 17:02	1
Chloroethane	ND		1.0	0.90	ug/L			10/19/19 17:02	1
1,1-Dichloroethene	ND		1.0	0.55	ug/L			10/19/19 17:02	1
Acetone	ND		5.0	3.4	ug/L			10/19/19 17:02	1
Carbon disulfide	ND		1.0	0.88	ug/L			10/19/19 17:02	1
Methylene Chloride	ND		1.0	0.89	ug/L			10/19/19 17:02	1
trans-1,2-Dichloroethene	ND		1.0	0.67	ug/L			10/19/19 17:02	1
Methyl tert-butyl ether	ND		1.0	0.59	ug/L			10/19/19 17:02	1
1,1-Dichloroethane	ND		1.0	0.63	ug/L			10/19/19 17:02	1
cis-1,2-Dichloroethene	0.99	J	1.0	0.71	ug/L			10/19/19 17:02	1
Bromochloromethane	ND		1.0	0.63	ug/L			10/19/19 17:02	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			10/19/19 17:02	1
Chloroform	ND		1.0	0.60	ug/L			10/19/19 17:02	1
1,1,1-Trichloroethane	ND		1.0	0.60	ug/L			10/19/19 17:02	1
Carbon tetrachloride	ND		1.0	0.88	ug/L			10/19/19 17:02	1
Benzene	ND		1.0	0.60	ug/L			10/19/19 17:02	1
1,2-Dichloroethane	ND		1.0	0.57	ug/L			10/19/19 17:02	1
Trichloroethene	1.2		1.0	0.69	ug/L			10/19/19 17:02	1
1,2-Dichloropropane	ND		1.0	0.66	ug/L			10/19/19 17:02	1
Bromodichloromethane	ND		1.0	0.64	ug/L			10/19/19 17:02	1
cis-1,3-Dichloropropene	ND		1.0	0.59	ug/L			10/19/19 17:02	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	3.1	ug/L			10/19/19 17:02	1
Toluene	ND		1.0	0.46	ug/L			10/19/19 17:02	1
trans-1,3-Dichloropropene	ND		1.0	0.58	ug/L			10/19/19 17:02	1
1,1,2-Trichloroethane	ND		1.0	0.45	ug/L			10/19/19 17:02	1
Tetrachloroethene	3.0		1.0	0.47	ug/L			10/19/19 17:02	1
2-Hexanone	ND		5.0	3.3	ug/L			10/19/19 17:02	1
Dibromochloromethane	ND		1.0	0.84	ug/L			10/19/19 17:02	1
1,2-Dibromoethane (EDB)	ND		1.0	0.50	ug/L			10/19/19 17:02	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/19/19 17:02	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.57	ug/L			10/19/19 17:02	1
Ethylbenzene	ND		1.0	0.51	ug/L			10/19/19 17:02	1
Xylenes, Total	ND		2.0	0.89	ug/L			10/19/19 17:02	1
Styrene	ND		1.0	0.47	ug/L			10/19/19 17:02	1
Bromoform	ND		1.0	0.98	ug/L			10/19/19 17:02	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.60	ug/L			10/19/19 17:02	1
Acrylonitrile	ND		20	7.8	ug/L			10/19/19 17:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		70 - 150		10/19/19 17:02	1
Toluene-d8 (Surr)	101		78 - 128		10/19/19 17:02	1
4-Bromofluorobenzene (Surr)	98		64 - 123		10/19/19 17:02	1
Dibromofluoromethane (Surr)	100		75 - 147		10/19/19 17:02	1

Client Sample Results

Client: Groundwater Sciences Corporation
 Project/Site: fYNOP

Job ID: 180-97133-1

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

Client Sample ID: HD-MW-6-0/1-0

Date Collected: 10/09/19 13:25

Date Received: 10/11/19 09:00

Lab Sample ID: 180-97133-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0	0.90	ug/L			10/19/19 17:28	1
Vinyl chloride	ND		1.0	0.88	ug/L			10/19/19 17:28	1
Bromomethane	ND		1.0	0.89	ug/L			10/19/19 17:28	1
Chloroethane	ND		1.0	0.90	ug/L			10/19/19 17:28	1
1,1-Dichloroethene	ND		1.0	0.55	ug/L			10/19/19 17:28	1
Acetone	ND		5.0	3.4	ug/L			10/19/19 17:28	1
Carbon disulfide	ND		1.0	0.88	ug/L			10/19/19 17:28	1
Methylene Chloride	ND		1.0	0.89	ug/L			10/19/19 17:28	1
trans-1,2-Dichloroethene	ND		1.0	0.67	ug/L			10/19/19 17:28	1
Methyl tert-butyl ether	ND		1.0	0.59	ug/L			10/19/19 17:28	1
1,1-Dichloroethane	ND		1.0	0.63	ug/L			10/19/19 17:28	1
cis-1,2-Dichloroethene	ND		1.0	0.71	ug/L			10/19/19 17:28	1
Bromochloromethane	ND		1.0	0.63	ug/L			10/19/19 17:28	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			10/19/19 17:28	1
Chloroform	ND		1.0	0.60	ug/L			10/19/19 17:28	1
1,1,1-Trichloroethane	ND		1.0	0.60	ug/L			10/19/19 17:28	1
Carbon tetrachloride	ND		1.0	0.88	ug/L			10/19/19 17:28	1
Benzene	ND		1.0	0.60	ug/L			10/19/19 17:28	1
1,2-Dichloroethane	ND		1.0	0.57	ug/L			10/19/19 17:28	1
Trichloroethene	ND		1.0	0.69	ug/L			10/19/19 17:28	1
1,2-Dichloropropane	ND		1.0	0.66	ug/L			10/19/19 17:28	1
Bromodichloromethane	ND		1.0	0.64	ug/L			10/19/19 17:28	1
cis-1,3-Dichloropropene	ND		1.0	0.59	ug/L			10/19/19 17:28	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	3.1	ug/L			10/19/19 17:28	1
Toluene	ND		1.0	0.46	ug/L			10/19/19 17:28	1
trans-1,3-Dichloropropene	ND		1.0	0.58	ug/L			10/19/19 17:28	1
1,1,2-Trichloroethane	ND		1.0	0.45	ug/L			10/19/19 17:28	1
Tetrachloroethene	ND		1.0	0.47	ug/L			10/19/19 17:28	1
2-Hexanone	ND		5.0	3.3	ug/L			10/19/19 17:28	1
Dibromochloromethane	ND		1.0	0.84	ug/L			10/19/19 17:28	1
1,2-Dibromoethane (EDB)	ND		1.0	0.50	ug/L			10/19/19 17:28	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/19/19 17:28	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.57	ug/L			10/19/19 17:28	1
Ethylbenzene	ND		1.0	0.51	ug/L			10/19/19 17:28	1
Xylenes, Total	ND		2.0	0.89	ug/L			10/19/19 17:28	1
Styrene	ND		1.0	0.47	ug/L			10/19/19 17:28	1
Bromoform	ND		1.0	0.98	ug/L			10/19/19 17:28	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.60	ug/L			10/19/19 17:28	1
Acrylonitrile	ND		20	7.8	ug/L			10/19/19 17:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		70 - 150		10/19/19 17:28	1
Toluene-d8 (Surr)	104		78 - 128		10/19/19 17:28	1
4-Bromofluorobenzene (Surr)	100		64 - 123		10/19/19 17:28	1
Dibromofluoromethane (Surr)	104		75 - 147		10/19/19 17:28	1

Client Sample Results

Client: Groundwater Sciences Corporation
 Project/Site: fYNOP

Job ID: 180-97133-1

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

Client Sample ID: HD-MW-5-0/1-0

Date Collected: 10/09/19 11:50

Date Received: 10/11/19 09:00

Lab Sample ID: 180-97133-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0	0.90	ug/L			10/19/19 17:54	1
Vinyl chloride	ND		1.0	0.88	ug/L			10/19/19 17:54	1
Bromomethane	ND		1.0	0.89	ug/L			10/19/19 17:54	1
Chloroethane	ND		1.0	0.90	ug/L			10/19/19 17:54	1
1,1-Dichloroethene	ND		1.0	0.55	ug/L			10/19/19 17:54	1
Acetone	ND		5.0	3.4	ug/L			10/19/19 17:54	1
Carbon disulfide	ND		1.0	0.88	ug/L			10/19/19 17:54	1
Methylene Chloride	ND		1.0	0.89	ug/L			10/19/19 17:54	1
trans-1,2-Dichloroethene	ND		1.0	0.67	ug/L			10/19/19 17:54	1
Methyl tert-butyl ether	ND		1.0	0.59	ug/L			10/19/19 17:54	1
1,1-Dichloroethane	ND		1.0	0.63	ug/L			10/19/19 17:54	1
cis-1,2-Dichloroethene	3.4		1.0	0.71	ug/L			10/19/19 17:54	1
Bromochloromethane	ND		1.0	0.63	ug/L			10/19/19 17:54	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			10/19/19 17:54	1
Chloroform	ND		1.0	0.60	ug/L			10/19/19 17:54	1
1,1,1-Trichloroethane	ND		1.0	0.60	ug/L			10/19/19 17:54	1
Carbon tetrachloride	ND		1.0	0.88	ug/L			10/19/19 17:54	1
Benzene	ND		1.0	0.60	ug/L			10/19/19 17:54	1
1,2-Dichloroethane	ND		1.0	0.57	ug/L			10/19/19 17:54	1
Trichloroethene	ND		1.0	0.69	ug/L			10/19/19 17:54	1
1,2-Dichloropropane	ND		1.0	0.66	ug/L			10/19/19 17:54	1
Bromodichloromethane	ND		1.0	0.64	ug/L			10/19/19 17:54	1
cis-1,3-Dichloropropene	ND		1.0	0.59	ug/L			10/19/19 17:54	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	3.1	ug/L			10/19/19 17:54	1
Toluene	ND		1.0	0.46	ug/L			10/19/19 17:54	1
trans-1,3-Dichloropropene	ND		1.0	0.58	ug/L			10/19/19 17:54	1
1,1,2-Trichloroethane	ND		1.0	0.45	ug/L			10/19/19 17:54	1
Tetrachloroethene	ND		1.0	0.47	ug/L			10/19/19 17:54	1
2-Hexanone	ND		5.0	3.3	ug/L			10/19/19 17:54	1
Dibromochloromethane	ND		1.0	0.84	ug/L			10/19/19 17:54	1
1,2-Dibromoethane (EDB)	ND		1.0	0.50	ug/L			10/19/19 17:54	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/19/19 17:54	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.57	ug/L			10/19/19 17:54	1
Ethylbenzene	ND		1.0	0.51	ug/L			10/19/19 17:54	1
Xylenes, Total	ND		2.0	0.89	ug/L			10/19/19 17:54	1
Styrene	ND		1.0	0.47	ug/L			10/19/19 17:54	1
Bromoform	ND		1.0	0.98	ug/L			10/19/19 17:54	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.60	ug/L			10/19/19 17:54	1
Acrylonitrile	ND		20	7.8	ug/L			10/19/19 17:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		70 - 150		10/19/19 17:54	1
Toluene-d8 (Surr)	104		78 - 128		10/19/19 17:54	1
4-Bromofluorobenzene (Surr)	104		64 - 123		10/19/19 17:54	1
Dibromofluoromethane (Surr)	107		75 - 147		10/19/19 17:54	1

Client Sample Results

Client: Groundwater Sciences Corporation
 Project/Site: fYNOP

Job ID: 180-97133-1

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

Client Sample ID: HD-MW-111-0/1-0

Date Collected: 10/09/19 14:05

Date Received: 10/11/19 09:00

Lab Sample ID: 180-97133-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0	0.90	ug/L			10/19/19 18:20	1
Vinyl chloride	ND		1.0	0.88	ug/L			10/19/19 18:20	1
Bromomethane	ND		1.0	0.89	ug/L			10/19/19 18:20	1
Chloroethane	ND		1.0	0.90	ug/L			10/19/19 18:20	1
1,1-Dichloroethene	ND		1.0	0.55	ug/L			10/19/19 18:20	1
Acetone	ND		5.0	3.4	ug/L			10/19/19 18:20	1
Carbon disulfide	ND		1.0	0.88	ug/L			10/19/19 18:20	1
Methylene Chloride	ND		1.0	0.89	ug/L			10/19/19 18:20	1
trans-1,2-Dichloroethene	ND		1.0	0.67	ug/L			10/19/19 18:20	1
Methyl tert-butyl ether	ND		1.0	0.59	ug/L			10/19/19 18:20	1
1,1-Dichloroethane	ND		1.0	0.63	ug/L			10/19/19 18:20	1
cis-1,2-Dichloroethene	2.7		1.0	0.71	ug/L			10/19/19 18:20	1
Bromochloromethane	ND		1.0	0.63	ug/L			10/19/19 18:20	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			10/19/19 18:20	1
Chloroform	ND		1.0	0.60	ug/L			10/19/19 18:20	1
1,1,1-Trichloroethane	ND		1.0	0.60	ug/L			10/19/19 18:20	1
Carbon tetrachloride	ND		1.0	0.88	ug/L			10/19/19 18:20	1
Benzene	ND		1.0	0.60	ug/L			10/19/19 18:20	1
1,2-Dichloroethane	ND		1.0	0.57	ug/L			10/19/19 18:20	1
Trichloroethene	ND		1.0	0.69	ug/L			10/19/19 18:20	1
1,2-Dichloropropane	ND		1.0	0.66	ug/L			10/19/19 18:20	1
Bromodichloromethane	ND		1.0	0.64	ug/L			10/19/19 18:20	1
cis-1,3-Dichloropropene	ND		1.0	0.59	ug/L			10/19/19 18:20	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	3.1	ug/L			10/19/19 18:20	1
Toluene	ND		1.0	0.46	ug/L			10/19/19 18:20	1
trans-1,3-Dichloropropene	ND		1.0	0.58	ug/L			10/19/19 18:20	1
1,1,2-Trichloroethane	ND		1.0	0.45	ug/L			10/19/19 18:20	1
Tetrachloroethene	ND		1.0	0.47	ug/L			10/19/19 18:20	1
2-Hexanone	ND		5.0	3.3	ug/L			10/19/19 18:20	1
Dibromochloromethane	ND		1.0	0.84	ug/L			10/19/19 18:20	1
1,2-Dibromoethane (EDB)	ND		1.0	0.50	ug/L			10/19/19 18:20	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/19/19 18:20	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.57	ug/L			10/19/19 18:20	1
Ethylbenzene	ND		1.0	0.51	ug/L			10/19/19 18:20	1
Xylenes, Total	ND		2.0	0.89	ug/L			10/19/19 18:20	1
Styrene	ND		1.0	0.47	ug/L			10/19/19 18:20	1
Bromoform	ND		1.0	0.98	ug/L			10/19/19 18:20	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.60	ug/L			10/19/19 18:20	1
Acrylonitrile	ND		20	7.8	ug/L			10/19/19 18:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		70 - 150		10/19/19 18:20	1
Toluene-d8 (Surr)	108		78 - 128		10/19/19 18:20	1
4-Bromofluorobenzene (Surr)	102		64 - 123		10/19/19 18:20	1
Dibromofluoromethane (Surr)	108		75 - 147		10/19/19 18:20	1

Client Sample Results

Client: Groundwater Sciences Corporation
 Project/Site: fYNOP

Job ID: 180-97133-1

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

Client Sample ID: HD-MW-79-0/1-0

Date Collected: 10/10/19 10:58

Date Received: 10/11/19 09:00

Lab Sample ID: 180-97133-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0	0.90	ug/L			10/19/19 22:14	1
Vinyl chloride	ND		1.0	0.88	ug/L			10/19/19 22:14	1
Bromomethane	ND		1.0	0.89	ug/L			10/19/19 22:14	1
Chloroethane	ND		1.0	0.90	ug/L			10/19/19 22:14	1
1,1-Dichloroethene	ND		1.0	0.55	ug/L			10/19/19 22:14	1
Acetone	ND		5.0	3.4	ug/L			10/19/19 22:14	1
Carbon disulfide	ND		1.0	0.88	ug/L			10/19/19 22:14	1
Methylene Chloride	ND		1.0	0.89	ug/L			10/19/19 22:14	1
trans-1,2-Dichloroethene	ND		1.0	0.67	ug/L			10/19/19 22:14	1
Methyl tert-butyl ether	ND		1.0	0.59	ug/L			10/19/19 22:14	1
1,1-Dichloroethane	2.9		1.0	0.63	ug/L			10/19/19 22:14	1
cis-1,2-Dichloroethene	6.2		1.0	0.71	ug/L			10/19/19 22:14	1
Bromochloromethane	ND		1.0	0.63	ug/L			10/19/19 22:14	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			10/19/19 22:14	1
Chloroform	ND		1.0	0.60	ug/L			10/19/19 22:14	1
1,1,1-Trichloroethane	ND		1.0	0.60	ug/L			10/19/19 22:14	1
Carbon tetrachloride	ND		1.0	0.88	ug/L			10/19/19 22:14	1
Benzene	ND		1.0	0.60	ug/L			10/19/19 22:14	1
1,2-Dichloroethane	ND		1.0	0.57	ug/L			10/19/19 22:14	1
Trichloroethene	ND		1.0	0.69	ug/L			10/19/19 22:14	1
1,2-Dichloropropane	ND		1.0	0.66	ug/L			10/19/19 22:14	1
Bromodichloromethane	ND		1.0	0.64	ug/L			10/19/19 22:14	1
cis-1,3-Dichloropropene	ND		1.0	0.59	ug/L			10/19/19 22:14	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	3.1	ug/L			10/19/19 22:14	1
Toluene	ND		1.0	0.46	ug/L			10/19/19 22:14	1
trans-1,3-Dichloropropene	ND		1.0	0.58	ug/L			10/19/19 22:14	1
1,1,2-Trichloroethane	ND		1.0	0.45	ug/L			10/19/19 22:14	1
Tetrachloroethene	ND		1.0	0.47	ug/L			10/19/19 22:14	1
2-Hexanone	ND		5.0	3.3	ug/L			10/19/19 22:14	1
Dibromochloromethane	ND		1.0	0.84	ug/L			10/19/19 22:14	1
1,2-Dibromoethane (EDB)	ND		1.0	0.50	ug/L			10/19/19 22:14	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/19/19 22:14	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.57	ug/L			10/19/19 22:14	1
Ethylbenzene	ND		1.0	0.51	ug/L			10/19/19 22:14	1
Xylenes, Total	ND		2.0	0.89	ug/L			10/19/19 22:14	1
Styrene	ND		1.0	0.47	ug/L			10/19/19 22:14	1
Bromoform	ND		1.0	0.98	ug/L			10/19/19 22:14	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.60	ug/L			10/19/19 22:14	1
Acrylonitrile	ND		20	7.8	ug/L			10/19/19 22:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		70 - 150		10/19/19 22:14	1
Toluene-d8 (Surr)	104		78 - 128		10/19/19 22:14	1
4-Bromofluorobenzene (Surr)	102		64 - 123		10/19/19 22:14	1
Dibromofluoromethane (Surr)	105		75 - 147		10/19/19 22:14	1

Client Sample Results

Client: Groundwater Sciences Corporation
 Project/Site: fYNOP

Job ID: 180-97133-1

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

Client Sample ID: HD-MW-115-0/1-0

Date Collected: 10/10/19 11:45

Date Received: 10/11/19 09:00

Lab Sample ID: 180-97133-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND	^c	1.0	0.90	ug/L			10/23/19 17:01	1
Vinyl chloride	99	E	1.0	0.88	ug/L			10/23/19 17:01	1
Bromomethane	ND		1.0	0.89	ug/L			10/23/19 17:01	1
Chloroethane	ND	^c	1.0	0.90	ug/L			10/23/19 17:01	1
1,1-Dichloroethene	3.1		1.0	0.55	ug/L			10/23/19 17:01	1
Acetone	4.2	J	5.0	3.4	ug/L			10/23/19 17:01	1
Carbon disulfide	ND		1.0	0.88	ug/L			10/23/19 17:01	1
Methylene Chloride	ND		1.0	0.89	ug/L			10/23/19 17:01	1
trans-1,2-Dichloroethene	ND		1.0	0.67	ug/L			10/23/19 17:01	1
Methyl tert-butyl ether	28		1.0	0.59	ug/L			10/23/19 17:01	1
1,1-Dichloroethane	20		1.0	0.63	ug/L			10/23/19 17:01	1
cis-1,2-Dichloroethene	160	E	1.0	0.71	ug/L			10/23/19 17:01	1
Bromochloromethane	ND		1.0	0.63	ug/L			10/23/19 17:01	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			10/23/19 17:01	1
Chloroform	ND		1.0	0.60	ug/L			10/23/19 17:01	1
1,1,1-Trichloroethane	ND		1.0	0.60	ug/L			10/23/19 17:01	1
Carbon tetrachloride	ND		1.0	0.88	ug/L			10/23/19 17:01	1
Benzene	9.3		1.0	0.60	ug/L			10/23/19 17:01	1
1,2-Dichloroethane	1.5		1.0	0.57	ug/L			10/23/19 17:01	1
Trichloroethene	ND		1.0	0.69	ug/L			10/23/19 17:01	1
1,2-Dichloropropane	ND		1.0	0.66	ug/L			10/23/19 17:01	1
Bromodichloromethane	ND		1.0	0.64	ug/L			10/23/19 17:01	1
cis-1,3-Dichloropropene	ND		1.0	0.59	ug/L			10/23/19 17:01	1
4-Methyl-2-pentanone (MIBK)	ND	^c	5.0	3.1	ug/L			10/23/19 17:01	1
Toluene	ND		1.0	0.46	ug/L			10/23/19 17:01	1
trans-1,3-Dichloropropene	ND		1.0	0.58	ug/L			10/23/19 17:01	1
1,1,2-Trichloroethane	ND		1.0	0.45	ug/L			10/23/19 17:01	1
Tetrachloroethene	ND		1.0	0.47	ug/L			10/23/19 17:01	1
2-Hexanone	ND	^c	5.0	3.3	ug/L			10/23/19 17:01	1
Dibromochloromethane	ND		1.0	0.84	ug/L			10/23/19 17:01	1
1,2-Dibromoethane (EDB)	ND		1.0	0.50	ug/L			10/23/19 17:01	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/23/19 17:01	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.57	ug/L			10/23/19 17:01	1
Ethylbenzene	ND		1.0	0.51	ug/L			10/23/19 17:01	1
Xylenes, Total	ND		2.0	0.89	ug/L			10/23/19 17:01	1
Styrene	ND		1.0	0.47	ug/L			10/23/19 17:01	1
Bromoform	ND		1.0	0.98	ug/L			10/23/19 17:01	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.60	ug/L			10/23/19 17:01	1
Acrylonitrile	ND	^c	20	7.8	ug/L			10/23/19 17:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,2-Dichloroethane-d4 (Surr)</i>	100		70 - 150		10/23/19 17:01	1
<i>Toluene-d8 (Surr)</i>	116		78 - 128		10/23/19 17:01	1
<i>4-Bromofluorobenzene (Surr)</i>	110		64 - 123		10/23/19 17:01	1
<i>Dibromofluoromethane (Surr)</i>	87		75 - 147		10/23/19 17:01	1

Client Sample Results

Client: Groundwater Sciences Corporation
 Project/Site: fYNOP

Job ID: 180-97133-1

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

Client Sample ID: HD-MW-88-0/1-0

Date Collected: 10/10/19 13:40

Date Received: 10/11/19 09:00

Lab Sample ID: 180-97133-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0	0.90	ug/L			10/19/19 23:06	1
Vinyl chloride	ND		1.0	0.88	ug/L			10/19/19 23:06	1
Bromomethane	ND		1.0	0.89	ug/L			10/19/19 23:06	1
Chloroethane	ND		1.0	0.90	ug/L			10/19/19 23:06	1
1,1-Dichloroethene	ND		1.0	0.55	ug/L			10/19/19 23:06	1
Acetone	ND		5.0	3.4	ug/L			10/19/19 23:06	1
Carbon disulfide	ND		1.0	0.88	ug/L			10/19/19 23:06	1
Methylene Chloride	ND		1.0	0.89	ug/L			10/19/19 23:06	1
trans-1,2-Dichloroethene	ND		1.0	0.67	ug/L			10/19/19 23:06	1
Methyl tert-butyl ether	ND		1.0	0.59	ug/L			10/19/19 23:06	1
1,1-Dichloroethane	ND		1.0	0.63	ug/L			10/19/19 23:06	1
cis-1,2-Dichloroethene	ND		1.0	0.71	ug/L			10/19/19 23:06	1
Bromochloromethane	ND		1.0	0.63	ug/L			10/19/19 23:06	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			10/19/19 23:06	1
Chloroform	ND		1.0	0.60	ug/L			10/19/19 23:06	1
1,1,1-Trichloroethane	ND		1.0	0.60	ug/L			10/19/19 23:06	1
Carbon tetrachloride	ND		1.0	0.88	ug/L			10/19/19 23:06	1
Benzene	ND		1.0	0.60	ug/L			10/19/19 23:06	1
1,2-Dichloroethane	ND		1.0	0.57	ug/L			10/19/19 23:06	1
Trichloroethene	ND		1.0	0.69	ug/L			10/19/19 23:06	1
1,2-Dichloropropane	ND		1.0	0.66	ug/L			10/19/19 23:06	1
Bromodichloromethane	ND		1.0	0.64	ug/L			10/19/19 23:06	1
cis-1,3-Dichloropropene	ND		1.0	0.59	ug/L			10/19/19 23:06	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	3.1	ug/L			10/19/19 23:06	1
Toluene	ND		1.0	0.46	ug/L			10/19/19 23:06	1
trans-1,3-Dichloropropene	ND		1.0	0.58	ug/L			10/19/19 23:06	1
1,1,2-Trichloroethane	ND		1.0	0.45	ug/L			10/19/19 23:06	1
Tetrachloroethene	1.0		1.0	0.47	ug/L			10/19/19 23:06	1
2-Hexanone	ND		5.0	3.3	ug/L			10/19/19 23:06	1
Dibromochloromethane	ND		1.0	0.84	ug/L			10/19/19 23:06	1
1,2-Dibromoethane (EDB)	ND		1.0	0.50	ug/L			10/19/19 23:06	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/19/19 23:06	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.57	ug/L			10/19/19 23:06	1
Ethylbenzene	ND		1.0	0.51	ug/L			10/19/19 23:06	1
Xylenes, Total	ND		2.0	0.89	ug/L			10/19/19 23:06	1
Styrene	ND		1.0	0.47	ug/L			10/19/19 23:06	1
Bromoform	ND		1.0	0.98	ug/L			10/19/19 23:06	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.60	ug/L			10/19/19 23:06	1
Acrylonitrile	ND		20	7.8	ug/L			10/19/19 23:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		70 - 150		10/19/19 23:06	1
Toluene-d8 (Surr)	102		78 - 128		10/19/19 23:06	1
4-Bromofluorobenzene (Surr)	101		64 - 123		10/19/19 23:06	1
Dibromofluoromethane (Surr)	115		75 - 147		10/19/19 23:06	1

Client Sample Results

Client: Groundwater Sciences Corporation
 Project/Site: fYNOP

Job ID: 180-97133-1

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

Client Sample ID: HD-QC8-0/1-2

Date Collected: 10/09/19 00:00

Date Received: 10/11/19 09:00

Lab Sample ID: 180-97133-8

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0	0.90	ug/L			10/19/19 18:46	1
Vinyl chloride	ND		1.0	0.88	ug/L			10/19/19 18:46	1
Bromomethane	ND		1.0	0.89	ug/L			10/19/19 18:46	1
Chloroethane	ND		1.0	0.90	ug/L			10/19/19 18:46	1
1,1-Dichloroethene	ND		1.0	0.55	ug/L			10/19/19 18:46	1
Acetone	ND		5.0	3.4	ug/L			10/19/19 18:46	1
Carbon disulfide	ND		1.0	0.88	ug/L			10/19/19 18:46	1
Methylene Chloride	ND		1.0	0.89	ug/L			10/19/19 18:46	1
trans-1,2-Dichloroethene	ND		1.0	0.67	ug/L			10/19/19 18:46	1
Methyl tert-butyl ether	ND		1.0	0.59	ug/L			10/19/19 18:46	1
1,1-Dichloroethane	ND		1.0	0.63	ug/L			10/19/19 18:46	1
cis-1,2-Dichloroethene	ND		1.0	0.71	ug/L			10/19/19 18:46	1
Bromochloromethane	ND		1.0	0.63	ug/L			10/19/19 18:46	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			10/19/19 18:46	1
Chloroform	ND		1.0	0.60	ug/L			10/19/19 18:46	1
1,1,1-Trichloroethane	ND		1.0	0.60	ug/L			10/19/19 18:46	1
Carbon tetrachloride	ND		1.0	0.88	ug/L			10/19/19 18:46	1
Benzene	ND		1.0	0.60	ug/L			10/19/19 18:46	1
1,2-Dichloroethane	ND		1.0	0.57	ug/L			10/19/19 18:46	1
Trichloroethene	ND		1.0	0.69	ug/L			10/19/19 18:46	1
1,2-Dichloropropane	ND		1.0	0.66	ug/L			10/19/19 18:46	1
Bromodichloromethane	ND		1.0	0.64	ug/L			10/19/19 18:46	1
cis-1,3-Dichloropropene	ND		1.0	0.59	ug/L			10/19/19 18:46	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	3.1	ug/L			10/19/19 18:46	1
Toluene	ND		1.0	0.46	ug/L			10/19/19 18:46	1
trans-1,3-Dichloropropene	ND		1.0	0.58	ug/L			10/19/19 18:46	1
1,1,2-Trichloroethane	ND		1.0	0.45	ug/L			10/19/19 18:46	1
Tetrachloroethene	ND		1.0	0.47	ug/L			10/19/19 18:46	1
2-Hexanone	ND		5.0	3.3	ug/L			10/19/19 18:46	1
Dibromochloromethane	ND		1.0	0.84	ug/L			10/19/19 18:46	1
1,2-Dibromoethane (EDB)	ND		1.0	0.50	ug/L			10/19/19 18:46	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/19/19 18:46	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.57	ug/L			10/19/19 18:46	1
Ethylbenzene	ND		1.0	0.51	ug/L			10/19/19 18:46	1
Xylenes, Total	ND		2.0	0.89	ug/L			10/19/19 18:46	1
Styrene	ND		1.0	0.47	ug/L			10/19/19 18:46	1
Bromoform	ND		1.0	0.98	ug/L			10/19/19 18:46	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.60	ug/L			10/19/19 18:46	1
Acrylonitrile	ND		20	7.8	ug/L			10/19/19 18:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		70 - 150		10/19/19 18:46	1
Toluene-d8 (Surr)	107		78 - 128		10/19/19 18:46	1
4-Bromofluorobenzene (Surr)	102		64 - 123		10/19/19 18:46	1
Dibromofluoromethane (Surr)	107		75 - 147		10/19/19 18:46	1

Client Sample Results

Client: Groundwater Sciences Corporation
 Project/Site: fYNOP

Job ID: 180-97133-1

Method: EPA 8260C - Volatile Organic Compounds (GC/MS) - DL

Client Sample ID: HD-MW-115-0/1-0

Date Collected: 10/10/19 11:45

Date Received: 10/11/19 09:00

Lab Sample ID: 180-97133-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		10	9.0	ug/L			10/19/19 22:40	10
Vinyl chloride	67		10	8.8	ug/L			10/19/19 22:40	10
Bromomethane	ND		10	8.9	ug/L			10/19/19 22:40	10
Chloroethane	ND		10	9.0	ug/L			10/19/19 22:40	10
1,1-Dichloroethene	ND		10	5.5	ug/L			10/19/19 22:40	10
Acetone	ND		50	34	ug/L			10/19/19 22:40	10
Carbon disulfide	ND		10	8.8	ug/L			10/19/19 22:40	10
Methylene Chloride	ND		10	8.9	ug/L			10/19/19 22:40	10
trans-1,2-Dichloroethene	ND		10	6.7	ug/L			10/19/19 22:40	10
Methyl tert-butyl ether	26		10	5.9	ug/L			10/19/19 22:40	10
1,1-Dichloroethane	13		10	6.3	ug/L			10/19/19 22:40	10
cis-1,2-Dichloroethene	150		10	7.1	ug/L			10/19/19 22:40	10
Bromochloromethane	ND		10	6.3	ug/L			10/19/19 22:40	10
2-Butanone (MEK)	ND		50	26	ug/L			10/19/19 22:40	10
Chloroform	ND		10	6.0	ug/L			10/19/19 22:40	10
1,1,1-Trichloroethane	ND		10	6.0	ug/L			10/19/19 22:40	10
Carbon tetrachloride	ND		10	8.8	ug/L			10/19/19 22:40	10
Benzene	7.7	J	10	6.0	ug/L			10/19/19 22:40	10
1,2-Dichloroethane	ND		10	5.7	ug/L			10/19/19 22:40	10
Trichloroethene	ND		10	6.9	ug/L			10/19/19 22:40	10
1,2-Dichloropropane	ND		10	6.6	ug/L			10/19/19 22:40	10
Bromodichloromethane	ND		10	6.4	ug/L			10/19/19 22:40	10
cis-1,3-Dichloropropene	ND		10	5.9	ug/L			10/19/19 22:40	10
4-Methyl-2-pentanone (MIBK)	ND		50	31	ug/L			10/19/19 22:40	10
Toluene	ND		10	4.6	ug/L			10/19/19 22:40	10
trans-1,3-Dichloropropene	ND		10	5.8	ug/L			10/19/19 22:40	10
1,1,2-Trichloroethane	ND		10	4.5	ug/L			10/19/19 22:40	10
Tetrachloroethene	ND		10	4.7	ug/L			10/19/19 22:40	10
2-Hexanone	ND		50	33	ug/L			10/19/19 22:40	10
Dibromochloromethane	ND		10	8.4	ug/L			10/19/19 22:40	10
1,2-Dibromoethane (EDB)	ND		10	5.0	ug/L			10/19/19 22:40	10
Chlorobenzene	ND		10	5.0	ug/L			10/19/19 22:40	10
1,1,1,2-Tetrachloroethane	ND		10	5.7	ug/L			10/19/19 22:40	10
Ethylbenzene	ND		10	5.1	ug/L			10/19/19 22:40	10
Xylenes, Total	ND		20	8.9	ug/L			10/19/19 22:40	10
Styrene	ND		10	4.7	ug/L			10/19/19 22:40	10
Bromoform	ND		10	9.8	ug/L			10/19/19 22:40	10
1,1,2,2-Tetrachloroethane	ND		10	6.0	ug/L			10/19/19 22:40	10
Acrylonitrile	ND		200	78	ug/L			10/19/19 22:40	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		70 - 150		10/19/19 22:40	10
Toluene-d8 (Surr)	104		78 - 128		10/19/19 22:40	10
4-Bromofluorobenzene (Surr)	106		64 - 123		10/19/19 22:40	10
Dibromofluoromethane (Surr)	102		75 - 147		10/19/19 22:40	10

Default Detection Limits

Client: Groundwater Sciences Corporation
 Project/Site: fYNOP

Job ID: 180-97133-1

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

Analyte	RL	MDL	Units
1,1,1,2-Tetrachloroethane	1.0	0.57	ug/L
1,1,1-Trichloroethane	1.0	0.60	ug/L
1,1,2,2-Tetrachloroethane	1.0	0.60	ug/L
1,1,2-Trichloroethane	1.0	0.45	ug/L
1,1-Dichloroethane	1.0	0.63	ug/L
1,1-Dichloroethene	1.0	0.55	ug/L
1,2-Dibromoethane (EDB)	1.0	0.50	ug/L
1,2-Dichloroethane	1.0	0.57	ug/L
1,2-Dichloropropane	1.0	0.66	ug/L
2-Butanone (MEK)	5.0	2.6	ug/L
2-Hexanone	5.0	3.3	ug/L
4-Methyl-2-pentanone (MIBK)	5.0	3.1	ug/L
Acetone	5.0	3.4	ug/L
Acrylonitrile	20	7.8	ug/L
Benzene	1.0	0.60	ug/L
Bromochloromethane	1.0	0.63	ug/L
Bromodichloromethane	1.0	0.64	ug/L
Bromoform	1.0	0.98	ug/L
Bromomethane	1.0	0.89	ug/L
Carbon disulfide	1.0	0.88	ug/L
Carbon tetrachloride	1.0	0.88	ug/L
Chlorobenzene	1.0	0.50	ug/L
Chloroethane	1.0	0.90	ug/L
Chloroform	1.0	0.60	ug/L
Chloromethane	1.0	0.90	ug/L
cis-1,2-Dichloroethene	1.0	0.71	ug/L
cis-1,3-Dichloropropene	1.0	0.59	ug/L
Dibromochloromethane	1.0	0.84	ug/L
Ethylbenzene	1.0	0.51	ug/L
Methyl tert-butyl ether	1.0	0.59	ug/L
Methylene Chloride	1.0	0.89	ug/L
Styrene	1.0	0.47	ug/L
Tetrachloroethene	1.0	0.47	ug/L
Toluene	1.0	0.46	ug/L
trans-1,2-Dichloroethene	1.0	0.67	ug/L
trans-1,3-Dichloropropene	1.0	0.58	ug/L
Trichloroethene	1.0	0.69	ug/L
Vinyl chloride	1.0	0.88	ug/L
Xylenes, Total	2.0	0.89	ug/L

Surrogate Summary

Client: Groundwater Sciences Corporation
Project/Site: FYNOP

Job ID: 180-97133-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (70-150)	TOL (78-128)	BFB (64-123)	DBFM (75-147)
180-97133-1	HD-COD-SW-17-0/1-0	113	101	98	100
180-97133-2	HD-MW-6-0/1-0	115	104	100	104
180-97133-3	HD-MW-5-0/1-0	112	104	104	107
180-97133-4	HD-MW-111-0/1-0	112	108	102	108
180-97133-5	HD-MW-79-0/1-0	114	104	102	105
180-97133-6 - DL	HD-MW-115-0/1-0	114	104	106	102
180-97133-6	HD-MW-115-0/1-0	100	116	110	87
180-97133-7	HD-MW-88-0/1-0	113	102	101	115
180-97133-8	HD-QC8-0/1-2	114	107	102	107
LCS 180-295448/4	Lab Control Sample	104	110	113	96
LCS 180-295765/4	Lab Control Sample	103	112	113	94
MB 180-295448/6	Method Blank	112	111	104	98
MB 180-295765/6	Method Blank	108	119	107	95

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

QC Sample Results

Client: Groundwater Sciences Corporation
 Project/Site: fYNOP

Job ID: 180-97133-1

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

Lab Sample ID: MB 180-295448/6
Matrix: Water
Analysis Batch: 295448

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0	0.90	ug/L			10/19/19 15:44	1
Vinyl chloride	ND		1.0	0.88	ug/L			10/19/19 15:44	1
Bromomethane	ND		1.0	0.89	ug/L			10/19/19 15:44	1
Chloroethane	ND		1.0	0.90	ug/L			10/19/19 15:44	1
1,1-Dichloroethene	ND		1.0	0.55	ug/L			10/19/19 15:44	1
Acetone	ND		5.0	3.4	ug/L			10/19/19 15:44	1
Carbon disulfide	ND		1.0	0.88	ug/L			10/19/19 15:44	1
Methylene Chloride	ND		1.0	0.89	ug/L			10/19/19 15:44	1
trans-1,2-Dichloroethene	ND		1.0	0.67	ug/L			10/19/19 15:44	1
Methyl tert-butyl ether	ND		1.0	0.59	ug/L			10/19/19 15:44	1
1,1-Dichloroethane	ND		1.0	0.63	ug/L			10/19/19 15:44	1
cis-1,2-Dichloroethene	ND		1.0	0.71	ug/L			10/19/19 15:44	1
Bromochloromethane	ND		1.0	0.63	ug/L			10/19/19 15:44	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			10/19/19 15:44	1
Chloroform	ND		1.0	0.60	ug/L			10/19/19 15:44	1
1,1,1-Trichloroethane	ND		1.0	0.60	ug/L			10/19/19 15:44	1
Carbon tetrachloride	ND		1.0	0.88	ug/L			10/19/19 15:44	1
Benzene	ND		1.0	0.60	ug/L			10/19/19 15:44	1
1,2-Dichloroethane	ND		1.0	0.57	ug/L			10/19/19 15:44	1
Trichloroethene	ND		1.0	0.69	ug/L			10/19/19 15:44	1
1,2-Dichloropropane	ND		1.0	0.66	ug/L			10/19/19 15:44	1
Bromodichloromethane	ND		1.0	0.64	ug/L			10/19/19 15:44	1
cis-1,3-Dichloropropene	ND		1.0	0.59	ug/L			10/19/19 15:44	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	3.1	ug/L			10/19/19 15:44	1
Toluene	ND		1.0	0.46	ug/L			10/19/19 15:44	1
trans-1,3-Dichloropropene	ND		1.0	0.58	ug/L			10/19/19 15:44	1
1,1,2-Trichloroethane	ND		1.0	0.45	ug/L			10/19/19 15:44	1
Tetrachloroethene	ND		1.0	0.47	ug/L			10/19/19 15:44	1
2-Hexanone	ND		5.0	3.3	ug/L			10/19/19 15:44	1
Dibromochloromethane	ND		1.0	0.84	ug/L			10/19/19 15:44	1
1,2-Dibromoethane (EDB)	ND		1.0	0.50	ug/L			10/19/19 15:44	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/19/19 15:44	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.57	ug/L			10/19/19 15:44	1
Ethylbenzene	ND		1.0	0.51	ug/L			10/19/19 15:44	1
Xylenes, Total	ND		2.0	0.89	ug/L			10/19/19 15:44	1
Styrene	ND		1.0	0.47	ug/L			10/19/19 15:44	1
Bromoform	ND		1.0	0.98	ug/L			10/19/19 15:44	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.60	ug/L			10/19/19 15:44	1
Acrylonitrile	ND		20	7.8	ug/L			10/19/19 15:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		70 - 150		10/19/19 15:44	1
Toluene-d8 (Surr)	111		78 - 128		10/19/19 15:44	1
4-Bromofluorobenzene (Surr)	104		64 - 123		10/19/19 15:44	1
Dibromofluoromethane (Surr)	98		75 - 147		10/19/19 15:44	1

QC Sample Results

Client: Groundwater Sciences Corporation
 Project/Site: fYNOP

Job ID: 180-97133-1

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

Lab Sample ID: LCS 180-295448/4

Matrix: Water

Analysis Batch: 295448

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	10.0	9.58		ug/L		96	37 - 150
Vinyl chloride	10.0	9.53		ug/L		95	50 - 150
Bromomethane	10.0	9.17		ug/L		92	35 - 150
Chloroethane	10.0	9.63		ug/L		96	52 - 150
1,1-Dichloroethene	10.0	10.8		ug/L		108	79 - 132
Acetone	20.0	21.9		ug/L		109	37 - 150
Carbon disulfide	10.0	9.89		ug/L		99	66 - 134
Methylene Chloride	10.0	9.65		ug/L		97	72 - 131
trans-1,2-Dichloroethene	10.0	10.4		ug/L		104	81 - 126
Methyl tert-butyl ether	10.0	10.0		ug/L		100	65 - 125
1,1-Dichloroethane	10.0	9.73		ug/L		97	70 - 127
cis-1,2-Dichloroethene	10.0	9.89		ug/L		99	79 - 119
Bromochloromethane	10.0	10.1		ug/L		101	74 - 124
2-Butanone (MEK)	20.0	21.7		ug/L		109	35 - 150
Chloroform	10.0	9.67		ug/L		97	75 - 126
1,1,1-Trichloroethane	10.0	10.1		ug/L		101	63 - 142
Carbon tetrachloride	10.0	10.4		ug/L		104	55 - 150
Benzene	10.0	10.1		ug/L		101	72 - 127
1,2-Dichloroethane	10.0	9.83		ug/L		98	60 - 138
Trichloroethene	10.0	9.85		ug/L		98	81 - 121
1,2-Dichloropropane	10.0	10.3		ug/L		103	67 - 124
Bromodichloromethane	10.0	9.59		ug/L		96	67 - 131
cis-1,3-Dichloropropene	10.0	10.4		ug/L		104	69 - 122
4-Methyl-2-pentanone (MIBK)	20.0	22.8		ug/L		114	19 - 150
Toluene	10.0	11.0		ug/L		110	73 - 123
trans-1,3-Dichloropropene	10.0	10.7		ug/L		107	61 - 122
1,1,2-Trichloroethane	10.0	11.1		ug/L		111	72 - 120
Tetrachloroethene	10.0	10.9		ug/L		109	69 - 134
2-Hexanone	20.0	21.7		ug/L		108	24 - 150
Dibromochloromethane	10.0	10.9		ug/L		109	59 - 134
1,2-Dibromoethane (EDB)	10.0	10.3		ug/L		103	65 - 129
Chlorobenzene	10.0	11.1		ug/L		111	76 - 119
1,1,1,2-Tetrachloroethane	10.0	10.8		ug/L		108	65 - 132
Ethylbenzene	10.0	10.4		ug/L		104	76 - 118
Xylenes, Total	20.0	21.3		ug/L		106	76 - 116
Styrene	10.0	11.2		ug/L		112	74 - 118
Bromoform	10.0	9.62		ug/L		96	50 - 146
1,1,2,2-Tetrachloroethane	10.0	10.9		ug/L		109	57 - 135
Acrylonitrile	100	106		ug/L		106	43 - 149

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>1,2-Dichloroethane-d4 (Surr)</i>	104		70 - 150
<i>Toluene-d8 (Surr)</i>	110		78 - 128
<i>4-Bromofluorobenzene (Surr)</i>	113		64 - 123
<i>Dibromofluoromethane (Surr)</i>	96		75 - 147

QC Sample Results

Client: Groundwater Sciences Corporation
 Project/Site: fYNOP

Job ID: 180-97133-1

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

Lab Sample ID: MB 180-295765/6
Matrix: Water
Analysis Batch: 295765

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0	0.90	ug/L			10/23/19 12:13	1
Vinyl chloride	ND		1.0	0.88	ug/L			10/23/19 12:13	1
Bromomethane	ND		1.0	0.89	ug/L			10/23/19 12:13	1
Chloroethane	ND		1.0	0.90	ug/L			10/23/19 12:13	1
1,1-Dichloroethene	ND		1.0	0.55	ug/L			10/23/19 12:13	1
Acetone	ND		5.0	3.4	ug/L			10/23/19 12:13	1
Carbon disulfide	ND		1.0	0.88	ug/L			10/23/19 12:13	1
Methylene Chloride	ND		1.0	0.89	ug/L			10/23/19 12:13	1
trans-1,2-Dichloroethene	ND		1.0	0.67	ug/L			10/23/19 12:13	1
Methyl tert-butyl ether	ND		1.0	0.59	ug/L			10/23/19 12:13	1
1,1-Dichloroethane	ND		1.0	0.63	ug/L			10/23/19 12:13	1
cis-1,2-Dichloroethene	ND		1.0	0.71	ug/L			10/23/19 12:13	1
Bromochloromethane	ND		1.0	0.63	ug/L			10/23/19 12:13	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			10/23/19 12:13	1
Chloroform	ND		1.0	0.60	ug/L			10/23/19 12:13	1
1,1,1-Trichloroethane	ND		1.0	0.60	ug/L			10/23/19 12:13	1
Carbon tetrachloride	ND		1.0	0.88	ug/L			10/23/19 12:13	1
Benzene	ND		1.0	0.60	ug/L			10/23/19 12:13	1
1,2-Dichloroethane	ND		1.0	0.57	ug/L			10/23/19 12:13	1
Trichloroethene	ND		1.0	0.69	ug/L			10/23/19 12:13	1
1,2-Dichloropropane	ND		1.0	0.66	ug/L			10/23/19 12:13	1
Bromodichloromethane	ND		1.0	0.64	ug/L			10/23/19 12:13	1
cis-1,3-Dichloropropene	ND		1.0	0.59	ug/L			10/23/19 12:13	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	3.1	ug/L			10/23/19 12:13	1
Toluene	ND		1.0	0.46	ug/L			10/23/19 12:13	1
trans-1,3-Dichloropropene	ND		1.0	0.58	ug/L			10/23/19 12:13	1
1,1,2-Trichloroethane	ND		1.0	0.45	ug/L			10/23/19 12:13	1
Tetrachloroethene	ND		1.0	0.47	ug/L			10/23/19 12:13	1
2-Hexanone	ND		5.0	3.3	ug/L			10/23/19 12:13	1
Dibromochloromethane	ND		1.0	0.84	ug/L			10/23/19 12:13	1
1,2-Dibromoethane (EDB)	ND		1.0	0.50	ug/L			10/23/19 12:13	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/23/19 12:13	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.57	ug/L			10/23/19 12:13	1
Ethylbenzene	ND		1.0	0.51	ug/L			10/23/19 12:13	1
Xylenes, Total	ND		2.0	0.89	ug/L			10/23/19 12:13	1
Styrene	ND		1.0	0.47	ug/L			10/23/19 12:13	1
Bromoform	ND		1.0	0.98	ug/L			10/23/19 12:13	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.60	ug/L			10/23/19 12:13	1
Acrylonitrile	ND		20	7.8	ug/L			10/23/19 12:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		70 - 150		10/23/19 12:13	1
Toluene-d8 (Surr)	119		78 - 128		10/23/19 12:13	1
4-Bromofluorobenzene (Surr)	107		64 - 123		10/23/19 12:13	1
Dibromofluoromethane (Surr)	95		75 - 147		10/23/19 12:13	1

QC Sample Results

Client: Groundwater Sciences Corporation
 Project/Site: fYNOP

Job ID: 180-97133-1

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

Lab Sample ID: LCS 180-295765/4
Matrix: Water
Analysis Batch: 295765

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	10.0	13.0		ug/L		130	37 - 150
Vinyl chloride	10.0	11.3		ug/L		113	50 - 150
Bromomethane	10.0	10.7		ug/L		107	35 - 150
Chloroethane	10.0	12.9		ug/L		129	52 - 150
1,1-Dichloroethene	10.0	10.7		ug/L		107	79 - 132
Acetone	20.0	18.5		ug/L		92	37 - 150
Carbon disulfide	10.0	10.7		ug/L		107	66 - 134
Methylene Chloride	10.0	11.1		ug/L		111	72 - 131
trans-1,2-Dichloroethene	10.0	10.3		ug/L		103	81 - 126
Methyl tert-butyl ether	10.0	10.3		ug/L		103	65 - 125
1,1-Dichloroethane	10.0	12.0		ug/L		120	70 - 127
cis-1,2-Dichloroethene	10.0	10.6		ug/L		106	79 - 119
Bromochloromethane	10.0	9.89		ug/L		99	74 - 124
2-Butanone (MEK)	20.0	23.7		ug/L		119	35 - 150
Chloroform	10.0	10.4		ug/L		104	75 - 126
1,1,1-Trichloroethane	10.0	9.82		ug/L		98	63 - 142
Carbon tetrachloride	10.0	9.50		ug/L		95	55 - 150
Benzene	10.0	11.2		ug/L		112	72 - 127
1,2-Dichloroethane	10.0	9.76		ug/L		98	60 - 138
Trichloroethene	10.0	9.86		ug/L		99	81 - 121
1,2-Dichloropropane	10.0	12.1		ug/L		121	67 - 124
Bromodichloromethane	10.0	10.6		ug/L		106	67 - 131
cis-1,3-Dichloropropene	10.0	11.4		ug/L		114	69 - 122
4-Methyl-2-pentanone (MIBK)	20.0	28.2		ug/L		141	19 - 150
Toluene	10.0	11.3		ug/L		113	73 - 123
trans-1,3-Dichloropropene	10.0	10.7		ug/L		107	61 - 122
1,1,2-Trichloroethane	10.0	11.1		ug/L		111	72 - 120
Tetrachloroethene	10.0	10.9		ug/L		109	69 - 134
2-Hexanone	20.0	24.4		ug/L		122	24 - 150
Dibromochloromethane	10.0	9.73		ug/L		97	59 - 134
1,2-Dibromoethane (EDB)	10.0	11.0		ug/L		110	65 - 129
Chlorobenzene	10.0	10.5		ug/L		105	76 - 119
1,1,1,2-Tetrachloroethane	10.0	10.1		ug/L		101	65 - 132
Ethylbenzene	10.0	11.3		ug/L		113	76 - 118
Xylenes, Total	20.0	22.7		ug/L		113	76 - 116
Styrene	10.0	11.1		ug/L		111	74 - 118
Bromoform	10.0	10.3		ug/L		103	50 - 146
1,1,1,2,2-Tetrachloroethane	10.0	11.5		ug/L		115	57 - 135
Acrylonitrile	100	143		ug/L		143	43 - 149

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>1,2-Dichloroethane-d4 (Surr)</i>	103		70 - 150
<i>Toluene-d8 (Surr)</i>	112		78 - 128
<i>4-Bromofluorobenzene (Surr)</i>	113		64 - 123
<i>Dibromofluoromethane (Surr)</i>	94		75 - 147

QC Association Summary

Client: Groundwater Sciences Corporation
Project/Site: FYNOP

Job ID: 180-97133-1

GC/MS VOA

Analysis Batch: 295448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-97133-1	HD-COD-SW-17-0/1-0	Total/NA	Water	EPA 8260C	
180-97133-2	HD-MW-6-0/1-0	Total/NA	Water	EPA 8260C	
180-97133-3	HD-MW-5-0/1-0	Total/NA	Water	EPA 8260C	
180-97133-4	HD-MW-111-0/1-0	Total/NA	Water	EPA 8260C	
180-97133-5	HD-MW-79-0/1-0	Total/NA	Water	EPA 8260C	
180-97133-6 - DL	HD-MW-115-0/1-0	Total/NA	Water	EPA 8260C	
180-97133-7	HD-MW-88-0/1-0	Total/NA	Water	EPA 8260C	
180-97133-8	HD-QC8-0/1-2	Total/NA	Water	EPA 8260C	
MB 180-295448/6	Method Blank	Total/NA	Water	EPA 8260C	
LCS 180-295448/4	Lab Control Sample	Total/NA	Water	EPA 8260C	

Analysis Batch: 295765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-97133-6	HD-MW-115-0/1-0	Total/NA	Water	EPA 8260C	
MB 180-295765/6	Method Blank	Total/NA	Water	EPA 8260C	
LCS 180-295765/4	Lab Control Sample	Total/NA	Water	EPA 8260C	

Lab Chronicle

Client: Groundwater Sciences Corporation
Project/Site: fYNOP

Job ID: 180-97133-1

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

Lab Sample ID: 180-97133-1

Date Collected: 10/09/19 08:40

Matrix: Water

Date Received: 10/11/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 8260C		1	5 mL	5 mL	295448	10/19/19 17:02	HRB	TAL PIT
Instrument ID: CHHP6										

Client Sample ID: HD-MW-6-0/1-0

Lab Sample ID: 180-97133-2

Date Collected: 10/09/19 13:25

Matrix: Water

Date Received: 10/11/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 8260C		1	5 mL	5 mL	295448	10/19/19 17:28	HRB	TAL PIT
Instrument ID: CHHP6										

Client Sample ID: HD-MW-5-0/1-0

Lab Sample ID: 180-97133-3

Date Collected: 10/09/19 11:50

Matrix: Water

Date Received: 10/11/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 8260C		1	5 mL	5 mL	295448	10/19/19 17:54	HRB	TAL PIT
Instrument ID: CHHP6										

Client Sample ID: HD-MW-111-0/1-0

Lab Sample ID: 180-97133-4

Date Collected: 10/09/19 14:05

Matrix: Water

Date Received: 10/11/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 8260C		1	5 mL	5 mL	295448	10/19/19 18:20	HRB	TAL PIT
Instrument ID: CHHP6										

Client Sample ID: HD-MW-79-0/1-0

Lab Sample ID: 180-97133-5

Date Collected: 10/10/19 10:58

Matrix: Water

Date Received: 10/11/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 8260C		1	5 mL	5 mL	295448	10/19/19 22:14	HRB	TAL PIT
Instrument ID: CHHP6										

Client Sample ID: HD-MW-115-0/1-0

Lab Sample ID: 180-97133-6

Date Collected: 10/10/19 11:45

Matrix: Water

Date Received: 10/11/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 8260C	DL	10	5 mL	5 mL	295448	10/19/19 22:40	HRB	TAL PIT
Instrument ID: CHHP6										
Total/NA	Analysis	EPA 8260C		1	5 mL	5 mL	295765	10/23/19 17:01	HRB	TAL PIT
Instrument ID: CHHP6										

Lab Chronicle

Client: Groundwater Sciences Corporation
Project/Site: FYNOP

Job ID: 180-97133-1

Client Sample ID: HD-MW-88-0/1-0

Lab Sample ID: 180-97133-7

Date Collected: 10/10/19 13:40

Matrix: Water

Date Received: 10/11/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 8260C		1	5 mL	5 mL	295448	10/19/19 23:06	HRB	TAL PIT
Instrument ID: CHHP6										

Client Sample ID: HD-QC8-0/1-2

Lab Sample ID: 180-97133-8

Date Collected: 10/09/19 00:00

Matrix: Water

Date Received: 10/11/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 8260C		1	5 mL	5 mL	295448	10/19/19 18:46	HRB	TAL PIT
Instrument ID: CHHP6										

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Analysis

HRB = Hannah Bowie

Accreditation/Certification Summary

Client: Groundwater Sciences Corporation
Project/Site: fYNOP

Job ID: 180-97133-1

Laboratory: Eurofins TestAmerica, Pittsburgh

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

Authority	Program	Identification Number	Expiration Date
Pennsylvania	NELAP	02-00416	04-30-20

Method Summary

Client: Groundwater Sciences Corporation
Project/Site: fYNOP

Job ID: 180-97133-1

Method	Method Description	Protocol	Laboratory
EPA 8260C	Volatile Organic Compounds (GC/MS)	SW846	TAL PIT
5030C	Purge and Trap	SW846	TAL PIT

Protocol References:

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

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Sample Summary

Client: Groundwater Sciences Corporation
Project/Site: fYNOP

Job ID: 180-97133-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-97133-1	HD-COD-SW-17-0/1-0	Water	10/09/19 08:40	10/11/19 09:00	
180-97133-2	HD-MW-6-0/1-0	Water	10/09/19 13:25	10/11/19 09:00	
180-97133-3	HD-MW-5-0/1-0	Water	10/09/19 11:50	10/11/19 09:00	
180-97133-4	HD-MW-111-0/1-0	Water	10/09/19 14:05	10/11/19 09:00	
180-97133-5	HD-MW-79-0/1-0	Water	10/10/19 10:58	10/11/19 09:00	
180-97133-6	HD-MW-115-0/1-0	Water	10/10/19 11:45	10/11/19 09:00	
180-97133-7	HD-MW-88-0/1-0	Water	10/10/19 13:40	10/11/19 09:00	
180-97133-8	HD-QC8-0/1-2	Water	10/09/19 00:00	10/11/19 09:00	

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Pittsb Job No.: 180-97133-1

SDG No.: _____

Instrument ID: CHHP6 Analysis Batch Number: 295392Lab Sample ID: IC 180-295392/4 Client Sample ID: _____Date Analyzed: 10/18/19 15:43 Lab File ID: 6101810.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride	2.00	Poor chromatography	bowieh	10/18/19 17:39
Bromomethane	2.36	Poor chromatography	bowieh	10/18/19 17:39
Chloroethane	2.50	Poor chromatography	bowieh	10/18/19 17:39
Dichlorofluoromethane	2.79	Poor chromatography	bowieh	10/18/19 17:39
Ethyl ether	3.16	Peak assignment corrected	bowieh	10/18/19 16:50
1,1,2-Trichloro-1,2,2-trifluoroethane	3.55	Poor chromatography	bowieh	10/18/19 17:39
Allyl chloride	4.09	Poor chromatography	bowieh	10/18/19 17:39
Methylene Chloride	4.31	Poor chromatography	bowieh	10/18/19 17:38
Vinyl acetate	5.38	Poor chromatography	bowieh	10/18/19 17:38
cis-1,2-Dichloroethene	6.09	Poor chromatography	bowieh	10/18/19 17:38
1,1,1-Trichloroethane	6.67	Poor chromatography	bowieh	10/18/19 17:38
1,2-Dichloroethane-d4 (Surr)	7.07	Poor chromatography	bowieh	10/18/19 17:39
1,2-Dichloroethane	7.14	Poor chromatography	bowieh	10/18/19 17:38
Trichloroethene	7.80	Poor chromatography	bowieh	10/18/19 17:38
Dibromomethane	8.17	Poor chromatography	bowieh	10/18/19 17:38
cis-1,3-Dichloropropene	8.80	Poor chromatography	bowieh	10/18/19 17:38
1,3-Dichlorobenzene	12.77	Poor chromatography	bowieh	10/18/19 17:37

Lab Sample ID: IC 180-295392/5 Client Sample ID: _____Date Analyzed: 10/18/19 16:10 Lab File ID: 6101811.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	2.32	Poor chromatography	bowieh	10/18/19 17:35
Chloroethane	2.47	Poor chromatography	bowieh	10/18/19 17:35
Trichlorofluoromethane	2.80	Poor chromatography	bowieh	10/18/19 17:35
1,1,2-Trichloro-1,2,2-trifluoroethane	3.56	Poor chromatography	bowieh	10/18/19 17:35

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Pittsb Job No.: 180-97133-1

SDG No.: _____

Instrument ID: CHHP6 Analysis Batch Number: 295392

Lab Sample ID: ICIS 180-295392/6 Client Sample ID: _____

Date Analyzed: 10/18/19 16:37 Lab File ID: 6101812.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichlorofluoromethane	2.80	Peak assignment corrected	bowieh	10/18/19 17:34
Hexane	5.12	Peak assignment corrected	bowieh	10/18/19 17:59
2,2-Dichloropropane	6.07	Poor chromatography	bowieh	10/18/19 18:00

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Pittsb Job No.: 180-97133-1

SDG No.: _____

Instrument ID: CHHP6 Analysis Batch Number: 295448Lab Sample ID: CCVIS 180-295448/2 Client Sample ID: _____Date Analyzed: 10/19/19 13:21 Lab File ID: 6101902.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	2.36	Incomplete Integration	bowieh	10/19/19 13:43
Acetone	3.58	Incomplete Integration	bowieh	10/19/19 13:43

Lab Sample ID: LCS 180-295448/4 Client Sample ID: _____Date Analyzed: 10/19/19 14:25 Lab File ID: 6101904A.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Butanone (MEK)	6.09	Incomplete Integration	bowieh	10/19/19 14:45

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Pittsb Job No.: 180-97133-1

SDG No.: _____

Instrument ID: CHHP6 Analysis Batch Number: 295448Lab Sample ID: MB 180-295448/6 Client Sample ID: _____Date Analyzed: 10/19/19 15:44 Lab File ID: 6101906A.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1,1,2-Tetrachloroethane		Invalid Compound ID	bowieh	10/22/19 09:23
1,1,1-Trichloroethane		Invalid Compound ID	bowieh	10/22/19 09:18
1,1,2,2-Tetrachloroethane		Invalid Compound ID	bowieh	10/22/19 09:23
1,1,2-Trichloroethane		Invalid Compound ID	bowieh	10/22/19 09:22
1,2-Dibromoethane (EDB)		Invalid Compound ID	bowieh	10/22/19 09:22
1,2-Dichloroethane		Invalid Compound ID	bowieh	10/22/19 09:18
1,2-Dichloropropane		Invalid Compound ID	bowieh	10/22/19 09:18
2-Hexanone		Invalid Compound ID	bowieh	10/22/19 09:22
4-Methyl-2-pentanone (MIBK)		Invalid Compound ID	bowieh	10/22/19 09:22
Acrylonitrile		Invalid Compound ID	bowieh	10/22/19 09:17
Bromomethane		Invalid Compound ID	bowieh	10/22/19 09:17
Carbon disulfide		Invalid Compound ID	bowieh	10/22/19 09:17
Chlorobenzene		Invalid Compound ID	bowieh	10/22/19 09:22
Chloroethane		Invalid Compound ID	bowieh	10/22/19 09:17
Chloromethane		Invalid Compound ID	bowieh	10/22/19 09:17
cis-1,2-Dichloroethene		Invalid Compound ID	bowieh	10/22/19 09:18
cis-1,3-Dichloropropene		Invalid Compound ID	bowieh	10/22/19 09:22
Dibromochloromethane		Invalid Compound ID	bowieh	10/22/19 09:22
Ethylbenzene		Invalid Compound ID	bowieh	10/22/19 09:23
Methyl tert-butyl ether		Invalid Compound ID	bowieh	10/22/19 09:17
m-Xylene & p-Xylene		Invalid Compound ID	bowieh	10/22/19 09:23
o-Xylene		Invalid Compound ID	bowieh	10/22/19 09:23
Tetrachloroethene		Invalid Compound ID	bowieh	10/22/19 09:22
trans-1,2-Dichloroethene		Invalid Compound ID	bowieh	10/22/19 09:17
trans-1,3-Dichloropropene		Invalid Compound ID	bowieh	10/22/19 09:22
Trichloroethene		Invalid Compound ID	bowieh	10/22/19 09:18
Styrene	11.17	Invalid Compound ID	bowieh	10/22/19 09:23

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Pittsb Job No.: 180-97133-1

SDG No.: _____

Instrument ID: CHHP6 Analysis Batch Number: 295448Lab Sample ID: 180-97133-1 Client Sample ID: HD-COD-SW-17-0/1-0Date Analyzed: 10/19/19 17:02 Lab File ID: 6101909.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	3.57	Peak assignment corrected	bowieh	10/22/19 09:41
1,1,1,2-Tetrachloroethane		Invalid Compound ID	bowieh	10/22/19 09:42
1,1,1-Trichloroethane		Invalid Compound ID	bowieh	10/22/19 09:42
1,1,2-Trichloroethane		Invalid Compound ID	bowieh	10/22/19 09:42
1,2-Dibromoethane (EDB)		Invalid Compound ID	bowieh	10/22/19 09:42
1,2-Dichloroethane		Invalid Compound ID	bowieh	10/22/19 09:42
1,2-Dichloropropane		Invalid Compound ID	bowieh	10/22/19 09:42
2-Butanone (MEK)		Invalid Compound ID	bowieh	10/22/19 09:42
2-Hexanone		Invalid Compound ID	bowieh	10/22/19 09:42
4-Methyl-2-pentanone (MIBK)		Invalid Compound ID	bowieh	10/22/19 09:42
Acrylonitrile		Invalid Compound ID	bowieh	10/22/19 09:41
Benzene		Invalid Compound ID	bowieh	10/22/19 09:42
Bromomethane		Invalid Compound ID	bowieh	10/22/19 09:41
Carbon disulfide		Invalid Compound ID	bowieh	10/22/19 09:41
Chlorobenzene		Invalid Compound ID	bowieh	10/22/19 09:42
Chloromethane		Invalid Compound ID	bowieh	10/22/19 09:41
cis-1,3-Dichloropropene		Invalid Compound ID	bowieh	10/22/19 09:42
Dibromochloromethane		Invalid Compound ID	bowieh	10/22/19 09:42
Ethylbenzene		Invalid Compound ID	bowieh	10/22/19 09:42
Methylene Chloride		Invalid Compound ID	bowieh	10/22/19 09:41
m-Xylene & p-Xylene		Invalid Compound ID	bowieh	10/22/19 09:42
o-Xylene		Invalid Compound ID	bowieh	10/22/19 09:42
Styrene		Invalid Compound ID	bowieh	10/22/19 09:42
Toluene		Invalid Compound ID	bowieh	10/22/19 09:42
trans-1,2-Dichloroethene		Invalid Compound ID	bowieh	10/22/19 09:41
trans-1,3-Dichloropropene		Invalid Compound ID	bowieh	10/22/19 09:42

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Pittsb Job No.: 180-97133-1

SDG No.: _____

Instrument ID: CHHP6 Analysis Batch Number: 295448Lab Sample ID: 180-97133-2 Client Sample ID: HD-MW-6-0/1-0Date Analyzed: 10/19/19 17:28 Lab File ID: 6101910.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichloroethene	7.79	Incomplete Integration	bowieh	10/22/19 09:44
1,1,1,2-Tetrachloroethane		Invalid Compound ID	bowieh	10/22/19 09:44
1,1,2,2-Tetrachloroethane		Invalid Compound ID	bowieh	10/22/19 09:44
1,1,2-Trichloroethane		Invalid Compound ID	bowieh	10/22/19 09:44
1,2-Dibromoethane (EDB)		Invalid Compound ID	bowieh	10/22/19 09:44
1,2-Dichloroethane		Invalid Compound ID	bowieh	10/22/19 09:43
1,2-Dichloropropane		Invalid Compound ID	bowieh	10/22/19 09:44
2-Butanone (MEK)		Invalid Compound ID	bowieh	10/22/19 09:43
2-Hexanone		Invalid Compound ID	bowieh	10/22/19 09:44
4-Methyl-2-pentanone (MIBK)		Invalid Compound ID	bowieh	10/22/19 09:44
Acetone		Invalid Compound ID	bowieh	10/22/19 09:43
Acrylonitrile		Invalid Compound ID	bowieh	10/22/19 09:43
Benzene		Invalid Compound ID	bowieh	10/22/19 09:43
Bromodichloromethane		Invalid Compound ID	bowieh	10/22/19 09:44
Bromomethane		Invalid Compound ID	bowieh	10/22/19 09:43
Carbon disulfide		Invalid Compound ID	bowieh	10/22/19 09:43
Chlorobenzene		Invalid Compound ID	bowieh	10/22/19 09:44
Chloromethane		Invalid Compound ID	bowieh	10/22/19 09:42
cis-1,2-Dichloroethene		Invalid Compound ID	bowieh	10/22/19 09:43
cis-1,3-Dichloropropene		Invalid Compound ID	bowieh	10/22/19 09:44
Dibromochloromethane		Invalid Compound ID	bowieh	10/22/19 09:44
Ethylbenzene		Invalid Compound ID	bowieh	10/22/19 09:44
Methyl tert-butyl ether		Invalid Compound ID	bowieh	10/22/19 09:43
m-Xylene & p-Xylene		Invalid Compound ID	bowieh	10/22/19 09:44
o-Xylene		Invalid Compound ID	bowieh	10/22/19 09:44
Styrene		Invalid Compound ID	bowieh	10/22/19 09:44
Tetrachloroethene		Invalid Compound ID	bowieh	10/22/19 09:44
Toluene		Invalid Compound ID	bowieh	10/22/19 09:44
trans-1,2-Dichloroethene		Invalid Compound ID	bowieh	10/22/19 09:43
trans-1,3-Dichloropropene		Invalid Compound ID	bowieh	10/22/19 09:44

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Pittsb Job No.: 180-97133-1

SDG No.: _____

Instrument ID: CHHP6 Analysis Batch Number: 295448

Lab Sample ID: 180-97133-2 Client Sample ID: HD-MW-6-0/1-0

Date Analyzed: 10/19/19 17:28 Lab File ID: 6101910.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride		Invalid Compound ID	bowieh	10/22/19 09:43

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Pittsb Job No.: 180-97133-1

SDG No.: _____

Instrument ID: CHHP6 Analysis Batch Number: 295448Lab Sample ID: 180-97133-3 Client Sample ID: HD-MW-5-0/1-0Date Analyzed: 10/19/19 17:54 Lab File ID: 6101911.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1,1,2-Tetrachloroethane		Invalid Compound ID	bowieh	10/22/19 09:46
1,1,1-Trichloroethane		Invalid Compound ID	bowieh	10/22/19 09:46
1,1,2,2-Tetrachloroethane		Invalid Compound ID	bowieh	10/22/19 09:46
1,1,2-Trichloroethane		Invalid Compound ID	bowieh	10/22/19 09:46
1,1-Dichloroethane		Invalid Compound ID	bowieh	10/22/19 09:46
1,1-Dichloroethene		Invalid Compound ID	bowieh	10/22/19 09:45
1,2-Dibromoethane (EDB)		Invalid Compound ID	bowieh	10/22/19 09:46
1,2-Dichloroethane		Invalid Compound ID	bowieh	10/22/19 09:46
2-Butanone (MEK)		Invalid Compound ID	bowieh	10/22/19 09:46
2-Hexanone		Invalid Compound ID	bowieh	10/22/19 09:46
4-Methyl-2-pentanone (MIBK)		Invalid Compound ID	bowieh	10/22/19 09:46
Acetone		Invalid Compound ID	bowieh	10/22/19 09:45
Acrylonitrile		Invalid Compound ID	bowieh	10/22/19 09:45
Bromomethane		Invalid Compound ID	bowieh	10/22/19 09:45
Carbon disulfide		Invalid Compound ID	bowieh	10/22/19 09:45
Chlorobenzene		Invalid Compound ID	bowieh	10/22/19 09:46
Chloroethane		Invalid Compound ID	bowieh	10/22/19 09:45
Chloromethane		Invalid Compound ID	bowieh	10/22/19 09:45
cis-1,3-Dichloropropene		Invalid Compound ID	bowieh	10/22/19 09:46
Dibromochloromethane		Invalid Compound ID	bowieh	10/22/19 09:46
Ethylbenzene		Invalid Compound ID	bowieh	10/22/19 09:46
Methyl tert-butyl ether		Invalid Compound ID	bowieh	10/22/19 09:45
Methylene Chloride		Invalid Compound ID	bowieh	10/22/19 09:45
m-Xylene & p-Xylene		Invalid Compound ID	bowieh	10/22/19 09:46
o-Xylene		Invalid Compound ID	bowieh	10/22/19 09:46
Styrene		Invalid Compound ID	bowieh	10/22/19 09:46
Tetrachloroethene		Invalid Compound ID	bowieh	10/22/19 09:46
Toluene		Invalid Compound ID	bowieh	10/22/19 09:46
trans-1,3-Dichloropropene		Invalid Compound ID	bowieh	10/22/19 09:46
Vinyl chloride		Invalid Compound ID	bowieh	10/22/19 09:45

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Pittsb Job No.: 180-97133-1

SDG No.: _____

Instrument ID: CHHP6 Analysis Batch Number: 295448Lab Sample ID: 180-97133-4 Client Sample ID: HD-MW-111-0/1-0Date Analyzed: 10/19/19 18:20 Lab File ID: 6101912.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1,1,2-Tetrachloroethane		Invalid Compound ID	bowieh	10/22/19 09:49
1,1,1-Trichloroethane		Invalid Compound ID	bowieh	10/22/19 09:48
1,1,2,2-Tetrachloroethane		Invalid Compound ID	bowieh	10/22/19 09:49
1,1,2-Trichloroethane		Invalid Compound ID	bowieh	10/22/19 09:49
1,2-Dibromoethane (EDB)		Invalid Compound ID	bowieh	10/22/19 09:49
1,2-Dichloroethane		Invalid Compound ID	bowieh	10/22/19 09:48
1,2-Dichloropropane		Invalid Compound ID	bowieh	10/22/19 09:49
2-Butanone (MEK)		Invalid Compound ID	bowieh	10/22/19 09:48
2-Hexanone		Invalid Compound ID	bowieh	10/22/19 09:49
4-Methyl-2-pentanone (MIBK)		Invalid Compound ID	bowieh	10/22/19 09:49
Acetone		Invalid Compound ID	bowieh	10/22/19 09:48
Acrylonitrile		Invalid Compound ID	bowieh	10/22/19 09:48
Benzene		Invalid Compound ID	bowieh	10/22/19 09:48
Bromodichloromethane		Invalid Compound ID	bowieh	10/22/19 09:49
Bromomethane		Invalid Compound ID	bowieh	10/22/19 09:48
Carbon disulfide		Invalid Compound ID	bowieh	10/22/19 09:48
Carbon tetrachloride		Invalid Compound ID	bowieh	10/22/19 09:48
Chlorobenzene		Invalid Compound ID	bowieh	10/22/19 09:49
Chloroethane		Invalid Compound ID	bowieh	10/22/19 09:48
Chloroform		Invalid Compound ID	bowieh	10/22/19 09:48
Chloromethane		Invalid Compound ID	bowieh	10/22/19 09:48
cis-1,3-Dichloropropene		Invalid Compound ID	bowieh	10/22/19 09:49
Dibromochloromethane		Invalid Compound ID	bowieh	10/22/19 09:49
Ethylbenzene		Invalid Compound ID	bowieh	10/22/19 09:49
Methyl tert-butyl ether		Invalid Compound ID	bowieh	10/22/19 09:48
Methylene Chloride		Invalid Compound ID	bowieh	10/22/19 09:48
o-Xylene		Invalid Compound ID	bowieh	10/22/19 09:49
Tetrachloroethene		Invalid Compound ID	bowieh	10/22/19 09:49
trans-1,2-Dichloroethene		Invalid Compound ID	bowieh	10/22/19 09:48
Vinyl chloride		Invalid Compound ID	bowieh	10/22/19 09:48

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Pittsb Job No.: 180-97133-1

SDG No.: _____

Instrument ID: CHHP6 Analysis Batch Number: 295448

Lab Sample ID: 180-97133-4 Client Sample ID: HD-MW-111-0/1-0

Date Analyzed: 10/19/19 18:20 Lab File ID: 6101912.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
m-Xylene & p-Xylene	10.77	Invalid Compound ID	bowieh	10/22/19 09:49

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Pittsb Job No.: 180-97133-1

SDG No.: _____

Instrument ID: CHHP6 Analysis Batch Number: 295448Lab Sample ID: 180-97133-8 Client Sample ID: HD-QC8-0/1-2Date Analyzed: 10/19/19 18:46 Lab File ID: 6101913.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1,1,2-Tetrachloroethane		Invalid Compound ID	bowieh	10/22/19 09:50
1,1,1-Trichloroethane		Invalid Compound ID	bowieh	10/22/19 09:50
1,1,2,2-Tetrachloroethane		Invalid Compound ID	bowieh	10/22/19 09:51
1,1,2-Trichloroethane		Invalid Compound ID	bowieh	10/22/19 09:50
1,1-Dichloroethane		Invalid Compound ID	bowieh	10/22/19 09:50
1,2-Dibromoethane (EDB)		Invalid Compound ID	bowieh	10/22/19 09:50
1,2-Dichloroethane		Invalid Compound ID	bowieh	10/22/19 09:50
1,2-Dichloropropane		Invalid Compound ID	bowieh	10/22/19 09:50
2-Butanone (MEK)		Invalid Compound ID	bowieh	10/22/19 09:50
2-Hexanone		Invalid Compound ID	bowieh	10/22/19 09:50
4-Methyl-2-pentanone (MIBK)		Invalid Compound ID	bowieh	10/22/19 09:50
Acetone		Invalid Compound ID	bowieh	10/22/19 09:50
Acrylonitrile		Invalid Compound ID	bowieh	10/22/19 09:50
Benzene		Invalid Compound ID	bowieh	10/22/19 09:50
Bromodichloromethane		Invalid Compound ID	bowieh	10/22/19 09:50
Bromoform		Invalid Compound ID	bowieh	10/22/19 09:51
Bromomethane		Invalid Compound ID	bowieh	10/22/19 09:49
Carbon disulfide		Invalid Compound ID	bowieh	10/22/19 09:50
Carbon tetrachloride		Invalid Compound ID	bowieh	10/22/19 09:50
Chlorobenzene		Invalid Compound ID	bowieh	10/22/19 09:50
Chloroethane		Invalid Compound ID	bowieh	10/22/19 09:49
Chloroform		Invalid Compound ID	bowieh	10/22/19 09:50
Chloromethane		Invalid Compound ID	bowieh	10/22/19 09:49
cis-1,2-Dichloroethene		Invalid Compound ID	bowieh	10/22/19 09:50
cis-1,3-Dichloropropene		Invalid Compound ID	bowieh	10/22/19 09:50
Dibromochloromethane		Invalid Compound ID	bowieh	10/22/19 09:50
Ethylbenzene		Invalid Compound ID	bowieh	10/22/19 09:50
Methyl tert-butyl ether		Invalid Compound ID	bowieh	10/22/19 09:50
Methylene Chloride		Invalid Compound ID	bowieh	10/22/19 09:50
m-Xylene & p-Xylene		Invalid Compound ID	bowieh	10/22/19 09:50

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Pittsb Job No.: 180-97133-1

SDG No.: _____

Instrument ID: CHHP6 Analysis Batch Number: 295448

Lab Sample ID: 180-97133-8 Client Sample ID: HD-QC8-0/1-2

Date Analyzed: 10/19/19 18:46 Lab File ID: 6101913.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
o-Xylene		Invalid Compound ID	bowieh	10/22/19 09:50
Styrene		Invalid Compound ID	bowieh	10/22/19 09:50
Toluene		Invalid Compound ID	bowieh	10/22/19 09:50
trans-1,2-Dichloroethene		Invalid Compound ID	bowieh	10/22/19 09:50
trans-1,3-Dichloropropene		Invalid Compound ID	bowieh	10/22/19 09:50
Vinyl chloride		Invalid Compound ID	bowieh	10/22/19 09:49

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Pittsb Job No.: 180-97133-1

SDG No.: _____

Instrument ID: CHHP6 Analysis Batch Number: 295448Lab Sample ID: 180-97133-5 Client Sample ID: HD-MW-79-0/1-0Date Analyzed: 10/19/19 22:14 Lab File ID: 6101921.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride	2.00	Poor chromatography	bowieh	10/22/19 09:56
Trichloroethene	7.80	Poor chromatography	bowieh	10/22/19 09:56
1,1,1,2-Tetrachloroethane		Invalid Compound ID	bowieh	10/22/19 09:57
1,1,1-Trichloroethane		Invalid Compound ID	bowieh	10/22/19 09:56
1,1,2,2-Tetrachloroethane		Invalid Compound ID	bowieh	10/22/19 09:57
1,1,2-Trichloroethane		Invalid Compound ID	bowieh	10/22/19 09:57
1,2-Dibromoethane (EDB)		Invalid Compound ID	bowieh	10/22/19 09:57
1,2-Dichloroethane		Invalid Compound ID	bowieh	10/22/19 09:56
1,2-Dichloropropane		Invalid Compound ID	bowieh	10/22/19 09:56
2-Butanone (MEK)		Invalid Compound ID	bowieh	10/22/19 09:56
2-Hexanone		Invalid Compound ID	bowieh	10/22/19 09:57
4-Methyl-2-pentanone (MIBK)		Invalid Compound ID	bowieh	10/22/19 09:56
Acetone		Invalid Compound ID	bowieh	10/22/19 09:56
Acrylonitrile		Invalid Compound ID	bowieh	10/22/19 09:56
Benzene		Invalid Compound ID	bowieh	10/22/19 09:56
Bromodichloromethane		Invalid Compound ID	bowieh	10/22/19 09:56
Bromomethane		Invalid Compound ID	bowieh	10/22/19 09:56
Carbon disulfide		Invalid Compound ID	bowieh	10/22/19 09:56
Chlorobenzene		Invalid Compound ID	bowieh	10/22/19 09:57
Chloroethane		Invalid Compound ID	bowieh	10/22/19 09:56
Chloroform		Invalid Compound ID	bowieh	10/22/19 09:56
Chloromethane		Invalid Compound ID	bowieh	10/22/19 09:56
cis-1,3-Dichloropropene		Invalid Compound ID	bowieh	10/22/19 09:56
Dibromochloromethane		Invalid Compound ID	bowieh	10/22/19 09:57
Ethylbenzene		Invalid Compound ID	bowieh	10/22/19 09:57
Methyl tert-butyl ether		Invalid Compound ID	bowieh	10/22/19 09:56
m-Xylene & p-Xylene		Invalid Compound ID	bowieh	10/22/19 09:57
o-Xylene		Invalid Compound ID	bowieh	10/22/19 09:57
Tetrachloroethene		Invalid Compound ID	bowieh	10/22/19 09:57
Toluene		Invalid Compound ID	bowieh	10/22/19 09:57

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Pittsb Job No.: 180-97133-1

SDG No.: _____

Instrument ID: CHHP6 Analysis Batch Number: 295448

Lab Sample ID: 180-97133-5 Client Sample ID: HD-MW-79-0/1-0

Date Analyzed: 10/19/19 22:14 Lab File ID: 6101921.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
trans-1,2-Dichloroethene		Invalid Compound ID	bowieh	10/22/19 09:56
trans-1,3-Dichloropropene		Invalid Compound ID	bowieh	10/22/19 09:57

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Pittsb Job No.: 180-97133-1

SDG No.: _____

Instrument ID: CHHP6 Analysis Batch Number: 295448Lab Sample ID: 180-97133-6 DL Client Sample ID: HD-MW-115-0/1-0 DLDate Analyzed: 10/19/19 22:40 Lab File ID: 6101922.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1-Dichloroethene	3.48	Invalid Compound ID	bowieh	10/22/19 09:59
Methylene Chloride	4.31	Peak assignment corrected	bowieh	10/22/19 09:59
1,1-Dichloroethane	5.34	Baseline	bowieh	10/22/19 10:01
Chloroform	6.50	Baseline	bowieh	10/22/19 10:01
Benzene	7.07	Poor chromatography	bowieh	10/22/19 10:02
1,1,1-Trichloroethane		Invalid Compound ID	bowieh	10/22/19 10:01
1,1,2,2-Tetrachloroethane		Invalid Compound ID	bowieh	10/22/19 10:03
1,1,2-Trichloroethane		Invalid Compound ID	bowieh	10/22/19 10:02
1,2-Dichloroethane		Invalid Compound ID	bowieh	10/22/19 10:02
1,2-Dichloropropane		Invalid Compound ID	bowieh	10/22/19 10:02
2-Hexanone		Invalid Compound ID	bowieh	10/22/19 10:02
4-Methyl-2-pentanone (MIBK)		Invalid Compound ID	bowieh	10/22/19 10:02
Acrylonitrile		Invalid Compound ID	bowieh	10/22/19 10:01
Bromochloromethane		Invalid Compound ID	bowieh	10/22/19 10:01
Bromomethane		Invalid Compound ID	bowieh	10/22/19 09:59
Carbon disulfide		Invalid Compound ID	bowieh	10/22/19 09:59
Chlorobenzene		Invalid Compound ID	bowieh	10/22/19 10:02
Chloromethane		Invalid Compound ID	bowieh	10/22/19 09:59
cis-1,3-Dichloropropene		Invalid Compound ID	bowieh	10/22/19 10:02
Dibromochloromethane		Invalid Compound ID	bowieh	10/22/19 10:02
Ethylbenzene		Invalid Compound ID	bowieh	10/22/19 10:02
m-Xylene & p-Xylene		Invalid Compound ID	bowieh	10/22/19 10:02
o-Xylene		Invalid Compound ID	bowieh	10/22/19 10:02
Styrene		Invalid Compound ID	bowieh	10/22/19 10:03
Tetrachloroethene		Invalid Compound ID	bowieh	10/22/19 10:02
trans-1,2-Dichloroethene		Invalid Compound ID	bowieh	10/22/19 10:01
trans-1,3-Dichloropropene		Invalid Compound ID	bowieh	10/22/19 10:02

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Pittsb Job No.: 180-97133-1

SDG No.: _____

Instrument ID: CHHP6 Analysis Batch Number: 295448Lab Sample ID: 180-97133-7 Client Sample ID: HD-MW-88-0/1-0Date Analyzed: 10/19/19 23:06 Lab File ID: 6101923.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichloroethene	7.81	Poor chromatography	bowieh	10/22/19 10:08
Tetrachloroethene	9.64	Poor chromatography	bowieh	10/22/19 10:09
1,1,1,2-Tetrachloroethane		Invalid Compound ID	bowieh	10/22/19 10:09
1,1,2,2-Tetrachloroethane		Invalid Compound ID	bowieh	10/22/19 10:09
1,1,2-Trichloroethane		Invalid Compound ID	bowieh	10/22/19 10:09
1,1-Dichloroethene		Invalid Compound ID	bowieh	10/22/19 10:08
1,2-Dibromoethane (EDB)		Invalid Compound ID	bowieh	10/22/19 10:09
1,2-Dichloroethane		Invalid Compound ID	bowieh	10/22/19 10:08
1,2-Dichloropropane		Invalid Compound ID	bowieh	10/22/19 10:08
2-Butanone (MEK)		Invalid Compound ID	bowieh	10/22/19 10:08
2-Hexanone		Invalid Compound ID	bowieh	10/22/19 10:09
4-Methyl-2-pentanone (MIBK)		Invalid Compound ID	bowieh	10/22/19 10:08
Acetone		Invalid Compound ID	bowieh	10/22/19 10:08
Acrylonitrile		Invalid Compound ID	bowieh	10/22/19 10:08
Benzene		Invalid Compound ID	bowieh	10/22/19 10:08
Bromochloromethane		Invalid Compound ID	bowieh	10/22/19 10:08
Bromodichloromethane		Invalid Compound ID	bowieh	10/22/19 10:08
Bromomethane		Invalid Compound ID	bowieh	10/22/19 10:08
Carbon disulfide		Invalid Compound ID	bowieh	10/22/19 10:08
Carbon tetrachloride		Invalid Compound ID	bowieh	10/22/19 10:08
Chlorobenzene		Invalid Compound ID	bowieh	10/22/19 10:09
Chloroethane		Invalid Compound ID	bowieh	10/22/19 10:08
Chloromethane		Invalid Compound ID	bowieh	10/22/19 10:04
Dibromochloromethane		Invalid Compound ID	bowieh	10/22/19 10:09
Ethylbenzene		Invalid Compound ID	bowieh	10/22/19 10:09
Methyl tert-butyl ether		Invalid Compound ID	bowieh	10/22/19 10:08
m-Xylene & p-Xylene		Invalid Compound ID	bowieh	10/22/19 10:09
Styrene		Invalid Compound ID	bowieh	10/22/19 10:09
Toluene		Invalid Compound ID	bowieh	10/22/19 10:09
trans-1,2-Dichloroethene		Invalid Compound ID	bowieh	10/22/19 10:08

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Pittsb Job No.: 180-97133-1

SDG No.: _____

Instrument ID: CHHP6 Analysis Batch Number: 295448

Lab Sample ID: 180-97133-7 Client Sample ID: HD-MW-88-0/1-0

Date Analyzed: 10/19/19 23:06 Lab File ID: 6101923.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
trans-1,3-Dichloropropene		Invalid Compound ID	bowieh	10/22/19 10:09
Vinyl chloride		Invalid Compound ID	bowieh	10/22/19 10:08

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Pittsb Job No.: 180-97133-1

SDG No.: _____

Instrument ID: CHHP6 Analysis Batch Number: 295765Lab Sample ID: CCVIS 180-295765/2 Client Sample ID: _____Date Analyzed: 10/23/19 09:50 Lab File ID: 6102302.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl acetate	5.38	Peak assignment corrected	bowieh	10/23/19 11:16

Lab Sample ID: MB 180-295765/6 Client Sample ID: _____Date Analyzed: 10/23/19 12:13 Lab File ID: 6102306A.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1,1,2-Tetrachloroethane		Invalid Compound ID	bowieh	10/24/19 09:08
1,1,1-Trichloroethane		Invalid Compound ID	bowieh	10/24/19 09:07
1,1,2-Trichloroethane		Invalid Compound ID	bowieh	10/24/19 09:08
1,2-Dibromoethane (EDB)		Invalid Compound ID	bowieh	10/24/19 09:08
1,2-Dichloroethane		Invalid Compound ID	bowieh	10/24/19 09:07
1,2-Dichloropropane		Invalid Compound ID	bowieh	10/24/19 09:07
2-Hexanone		Invalid Compound ID	bowieh	10/24/19 09:08
4-Methyl-2-pentanone (MIBK)		Invalid Compound ID	bowieh	10/24/19 09:07
Acetone		Invalid Compound ID	bowieh	10/24/19 09:06
Acrylonitrile		Invalid Compound ID	bowieh	10/24/19 09:07
Benzene		Invalid Compound ID	bowieh	10/24/19 09:07
Bromomethane		Invalid Compound ID	bowieh	10/24/19 09:06
Carbon disulfide		Invalid Compound ID	bowieh	10/24/19 09:06
Chlorobenzene		Invalid Compound ID	bowieh	10/24/19 09:08
Dibromochloromethane		Invalid Compound ID	bowieh	10/24/19 09:08
Ethylbenzene		Invalid Compound ID	bowieh	10/24/19 09:08
Methyl tert-butyl ether		Invalid Compound ID	bowieh	10/24/19 09:07
m-Xylene & p-Xylene		Invalid Compound ID	bowieh	10/24/19 09:08
Toluene		Invalid Compound ID	bowieh	10/24/19 09:07
trans-1,2-Dichloroethene		Invalid Compound ID	bowieh	10/24/19 09:07
Vinyl chloride		Invalid Compound ID	bowieh	10/24/19 09:06

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Pittsb Job No.: 180-97133-1

SDG No.: _____

Instrument ID: CHHP6 Analysis Batch Number: 295765Lab Sample ID: 180-97133-6 Client Sample ID: HD-MW-115-0/1-0Date Analyzed: 10/23/19 17:01 Lab File ID: 6102317.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloroethane	2.49	Poor chromatography	bowieh	10/24/19 09:35
Acetone	3.57	Poor chromatography	bowieh	10/24/19 09:36
1,1,1-Trichloroethane		Invalid Compound ID	bowieh	10/24/19 09:36
1,1,2,2-Tetrachloroethane		Invalid Compound ID	bowieh	10/24/19 09:38
1,1,2-Trichloroethane		Invalid Compound ID	bowieh	10/24/19 09:37
1,2-Dibromoethane (EDB)		Invalid Compound ID	bowieh	10/24/19 09:37
1,2-Dichloropropane		Invalid Compound ID	bowieh	10/24/19 09:37
2-Hexanone		Invalid Compound ID	bowieh	10/24/19 09:37
4-Methyl-2-pentanone (MIBK)		Invalid Compound ID	bowieh	10/24/19 09:37
Acrylonitrile		Invalid Compound ID	bowieh	10/24/19 09:36
Carbon disulfide		Invalid Compound ID	bowieh	10/24/19 09:36
Chloroform		Invalid Compound ID	bowieh	10/24/19 09:36
Chloromethane		Invalid Compound ID	bowieh	10/24/19 09:35
cis-1,3-Dichloropropene		Invalid Compound ID	bowieh	10/24/19 09:37
o-Xylene		Invalid Compound ID	bowieh	10/24/19 09:37
trans-1,2-Dichloroethene		Invalid Compound ID	bowieh	10/24/19 09:36
trans-1,3-Dichloropropene		Invalid Compound ID	bowieh	10/24/19 09:37

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration		
					Reagent ID	Volume Added				
VOA8260INT_00100	11/07/19	10/07/19	Methanol, Lot 3167192	10 mL	VOA8260INTRES_00164	1 mL	1,4-Dichlorobenzene-d4	25 ug/mL		
							Chlorobenzene-d5	25 ug/mL		
							Fluorobenzene (IS)	25 ug/mL		
							TBA-d9 (IS)	500 ug/mL		
.VOA8260INTRES_00164	01/31/24		Restek, Lot A0145169		(Purchased Reagent)		1,4-Dichlorobenzene-d4	250 ug/mL		
							Chlorobenzene-d5	250 ug/mL		
							Fluorobenzene (IS)	250 ug/mL		
							TBA-d9 (IS)	5000 ug/mL		
VOA8260SURR_00100	11/07/19	10/07/19	Methanol, Lot 3167192	100 mL	VOA8260SURRES_00161	1 mL	1,2-Dichloroethane-d4 (Surr)	25 ug/mL		
							4-Bromofluorobenzene (Surr)	25 ug/mL		
							Dibromofluoromethane (Surr)	25 ug/mL		
							Toluene-d8 (Surr)	25 ug/mL		
.VOA8260SURRES_00161	11/30/23		Restek, Lot A0143613		(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		
VOA8260VOAPRI_00376	10/23/19	10/16/19	Methanol, Lot 3167194	10 mL	VOA8260GAS1ST_00279	0.1 mL	Bromomethane	25 ug/mL		
							Butadiene	25 ug/mL		
							Chloroethane	25 ug/mL		
							Chloromethane	25 ug/mL		
							Dichlorodifluoromethane	25 ug/mL		
							Dichlorofluoromethane	25 ug/mL		
							Trichlorofluoromethane	25 ug/mL		
							Vinyl chloride	25 ug/mL		
							VOA8260VOAPRI_00374	1 mL	2-Butanone (MEK)	25 ug/mL
									2-Hexanone	25 ug/mL
									4-Methyl-2-pentanone (MIBK)	25 ug/mL
									Acetone	25 ug/mL
									1,1,1,2-Tetrachloroethane	25 ug/mL
									1,1,1-Trichloroethane	25 ug/mL
					1,1,2,2-Tetrachloroethane	25 ug/mL				
					1,1,2-Trichloro-1,2,2-trifluoroethane	25 ug/mL				
					1,1,2-Trichloroethane	25 ug/mL				
					1,1-Dichloroethane	25 ug/mL				
					1,1-Dichloroethene	25 ug/mL				
					1,1-Dichloropropene	25 ug/mL				
					1,2,3-Trichlorobenzene	25 ug/mL				
					1,2,3-Trichloropropane	25 ug/mL				
					1,2,4-Trichlorobenzene	25 ug/mL				
					1,2,4-Trimethylbenzene	25 ug/mL				
					1,2-Dibromo-3-Chloropropane	25 ug/mL				
					1,2-Dibromoethane (EDB)	25 ug/mL				
					1,2-Dichlorobenzene	25 ug/mL				
					1,2-Dichloroethane	25 ug/mL				
1,2-Dichloropropane	25 ug/mL									
1,3,5-Trimethylbenzene	25 ug/mL									

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dichlorobenzene	25 ug/mL
							1,3-Dichloropropane	25 ug/mL
							1,4-Dichlorobenzene	25 ug/mL
							1,4-Dioxane	500 ug/mL
							2,2-Dichloropropane	25 ug/mL
							2-Chlorotoluene	25 ug/mL
							2-Methyl-2-propanol	250 ug/mL
							3-Chloro-1-propene	25 ug/mL
							4-Chlorotoluene	25 ug/mL
							4-Isopropyltoluene	25 ug/mL
							Acrylonitrile	250 ug/mL
							Benzene	25 ug/mL
							Bromobenzene	25 ug/mL
							Bromochloromethane	25 ug/mL
							Bromodichloromethane	25 ug/mL
							Bromoform	25 ug/mL
							Carbon disulfide	25 ug/mL
							Carbon tetrachloride	25 ug/mL
							Chlorobenzene	25 ug/mL
							Chloroform	25 ug/mL
							cis-1,2-Dichloroethene	25 ug/mL
							cis-1,3-Dichloropropene	25 ug/mL
							Cyclohexane	25 ug/mL
							Dibromochloromethane	25 ug/mL
							Dibromomethane	25 ug/mL
							Ethyl ether	25 ug/mL
							Ethyl methacrylate	25 ug/mL
							Ethylbenzene	25 ug/mL
							Hexachlorobutadiene	25 ug/mL
							Hexane	25 ug/mL
							Iodomethane	25 ug/mL
							Isobutyl alcohol	625 ug/mL
							Isopropylbenzene	25 ug/mL
							m-Xylene & p-Xylene	25 ug/mL
							Methyl acetate	50 ug/mL
							Methyl tert-butyl ether	25 ug/mL
							Methylcyclohexane	25 ug/mL
							Methylene Chloride	25 ug/mL
							n-Butylbenzene	25 ug/mL
							n-Heptane	25 ug/mL
							N-Propylbenzene	25 ug/mL
							Naphthalene	25 ug/mL
							o-Xylene	25 ug/mL
							sec-Butylbenzene	25 ug/mL
							Styrene	25 ug/mL
							tert-Butylbenzene	25 ug/mL
							Tetrachloroethene	25 ug/mL
							Tetrahydrofuran	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Toluene	25 ug/mL
							trans-1,2-Dichloroethene	25 ug/mL
							trans-1,3-Dichloropropene	25 ug/mL
							trans-1,4-Dichloro-2-butene	25 ug/mL
							Trichloroethene	25 ug/mL
.VOA8260GAS1ST_00279	03/31/21		Restek, Lot A0146651			(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
.VOA8260VOAPRI_00374	11/08/19	10/08/19	Methanol, Lot 3167194	10 mL	VOA8260KET1ST_00133	0.2 mL	2-Butanone (MEK)	250 ug/mL
							2-Hexanone	250 ug/mL
							4-Methyl-2-pentanone (MIBK)	250 ug/mL
							Acetone	250 ug/mL
					VOA8260MEGA1_00089	1 mL	1,1,1,2-Tetrachloroethane	250 ug/mL
							1,1,1-Trichloroethane	250 ug/mL
							1,1,2,2-Tetrachloroethane	250 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	250 ug/mL
							1,1,2-Trichloroethane	250 ug/mL
							1,1-Dichloroethane	250 ug/mL
							1,1-Dichloroethene	250 ug/mL
							1,1-Dichloropropene	250 ug/mL
							1,2,3-Trichlorobenzene	250 ug/mL
							1,2,3-Trichloropropane	250 ug/mL
							1,2,4-Trichlorobenzene	250 ug/mL
							1,2,4-Trimethylbenzene	250 ug/mL
							1,2-Dibromo-3-Chloropropane	250 ug/mL
							1,2-Dibromoethane (EDB)	250 ug/mL
							1,2-Dichlorobenzene	250 ug/mL
							1,2-Dichloroethane	250 ug/mL
							1,2-Dichloropropane	250 ug/mL
							1,3,5-Trimethylbenzene	250 ug/mL
							1,3-Dichlorobenzene	250 ug/mL
							1,3-Dichloropropane	250 ug/mL
							1,4-Dichlorobenzene	250 ug/mL
							1,4-Dioxane	5000 ug/mL
							2,2-Dichloropropane	250 ug/mL
							2-Chlorotoluene	250 ug/mL
							2-Methyl-2-propanol	2500 ug/mL
							3-Chloro-1-propene	250 ug/mL
							4-Chlorotoluene	250 ug/mL
							4-Isopropyltoluene	250 ug/mL
							Acrylonitrile	2500 ug/mL
							Benzene	250 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromobenzene	250 ug/mL
							Bromochloromethane	250 ug/mL
							Bromodichloromethane	250 ug/mL
							Bromoform	250 ug/mL
							Carbon disulfide	250 ug/mL
							Carbon tetrachloride	250 ug/mL
							Chlorobenzene	250 ug/mL
							Chloroform	250 ug/mL
							cis-1,2-Dichloroethene	250 ug/mL
							cis-1,3-Dichloropropene	250 ug/mL
							Cyclohexane	250 ug/mL
							Dibromochloromethane	250 ug/mL
							Dibromomethane	250 ug/mL
							Ethyl ether	250 ug/mL
							Ethyl methacrylate	250 ug/mL
							Ethylbenzene	250 ug/mL
							Hexachlorobutadiene	250 ug/mL
							Hexane	250 ug/mL
							Iodomethane	250 ug/mL
							Isobutyl alcohol	6250 ug/mL
							Isopropylbenzene	250 ug/mL
							m-Xylene & p-Xylene	250 ug/mL
							Methyl acetate	500 ug/mL
							Methyl tert-butyl ether	250 ug/mL
							Methylcyclohexane	250 ug/mL
							Methylene Chloride	250 ug/mL
							n-Butylbenzene	250 ug/mL
							n-Heptane	250 ug/mL
							N-Propylbenzene	250 ug/mL
							Naphthalene	250 ug/mL
							o-Xylene	250 ug/mL
							sec-Butylbenzene	250 ug/mL
							Styrene	250 ug/mL
							tert-Butylbenzene	250 ug/mL
							Tetrachloroethene	250 ug/mL
							Tetrahydrofuran	500 ug/mL
							Toluene	250 ug/mL
							trans-1,2-Dichloroethene	250 ug/mL
							trans-1,3-Dichloropropene	250 ug/mL
							trans-1,4-Dichloro-2-butene	250 ug/mL
							Trichloroethene	250 ug/mL
..VOA8260KET1ST_00133	12/31/21		Restek, Lot A0143988			(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
..VOA8260MEGA1_00089	06/30/21		Restek, Lot A0143774			(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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							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-Dibromoethane (EDB)	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
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	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
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							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
VOA8260VOAPRI_00376	10/23/19	10/16/19	Methanol, Lot 3167194	10 mL	VOA8260VOAPRI_00374	1 mL	Xylenes, Total	50 ug/mL
.VOA8260VOAPRI_00374	11/08/19	10/08/19	Methanol, Lot 3167194	10 mL	VOA8260MEGA1_00089	1 mL	Xylenes, Total	500 ug/mL
.VOA8260MEGA1_00089	06/30/21		Restek, Lot A0143774		(Purchased Reagent)		Xylenes, Total	5000 ug/mL
VOAACRPRI_00021	10/20/19	09/20/19	Methanol, Lot 3167194	100 mL	VOAACRORES_00148	125 uL	Acrolein	25 ug/mL
.VOAACRORES_00148	10/31/19		Restek, Lot A0147676		(Purchased Reagent)		Acrolein	20000 ug/mL
VOABFB25_00119							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							Tentatively Identified Compound	
							Total BTEX	
							Xylenes, Total	
.VOABFB50_00120	11/14/19	10/14/19	Methanol, Lot 3167189	50 mL	VOABFB50_00120	5 mL	BFB	25 ug/mL
.VOABFBRES_00088	04/30/24		Restek, Lot A0147670		VOABFBRES_00088	1 mL	BFB	50 ug/mL
					(Purchased Reagent)		BFB	2500 ug/mL
VOAVAPRI_00028	11/04/19	10/04/19	Methanol, Lot 3167194	10 mL	VOA8260VARES_00122	50 uL	Vinyl acetate	25 ug/mL
.VOA8260VARES_00122	02/29/20		Restek, Lot A0152359		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
voaWI/SHP5_00014	11/16/19	10/16/19	Methanol, Lot 3167194	25 mL	VOA8260INTSUR_00019	1 mL	1,4-Dichlorobenzene-d4	10 ug/mL
							Chlorobenzene-d5	10 ug/mL
							Fluorobenzene (IS)	10 ug/mL
							TBA-d9 (IS)	200 ug/mL
.VOA8260INTSUR_00019	01/31/22		Restek, Lot A0124021		(Purchased Reagent)		1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5	250 ug/mL
							Fluorobenzene (IS)	250 ug/mL
							TBA-d9 (IS)	5000 ug/mL
voaWI/SHP5_00014	11/16/19	10/16/19	Methanol, Lot 3167194	25 mL	VOA8260INTSUR_00019	1 mL	1,2-Dichloroethane-d4 (Surr)	10 ug/mL
							4-Bromofluorobenzene (Surr)	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibromofluoromethane (Surr)	10 ug/mL
							Toluene-d8 (Surr)	10 ug/mL
.VOA8260INTSUR_00019	01/31/22		Restek, Lot A0124021		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	250 ug/mL
							4-Bromofluorobenzene (Surr)	250 ug/mL
							Dibromofluoromethane (Surr)	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL
voaKetmix1st_00019	11/08/19	10/08/19	Methanol, Lot 3167194	50 mL	VOA8260KET1ST_00133	0.1 mL	2-Butanone (MEK)	25 ug/mL
							2-Hexanone	25 ug/mL
							4-Methyl-2-pentanone (MIBK)	25 ug/mL
							Acetone	25 ug/mL
.VOA8260KET1ST_00133	12/31/21		Restek, Lot A0143988		(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

Reagent

VOA8260GAS1ST_00279



CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 569722 Lot No.: A0146651

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 : March 31, 2022 Storage: 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dichlorodifluoromethane (CFC-12) CAS # 75-71-8 (Lot 00012554) Purity 99%	2,500.2 µg/mL	+/- 19.5056 µg/mL +/- 140.7858 µg/mL +/- 144.0522 µg/mL	Gravimetric Unstressed Stressed	
2	Chloromethane (methyl chloride) CAS # 74-87-3 (Lot SHBJ6334) Purity 99%	2,501.5 µg/mL	+/- 20.4136 µg/mL +/- 140.9867 µg/mL +/- 144.2520 µg/mL	Gravimetric Unstressed Stressed	
3	Vinyl chloride CAS # 75-01-4 (Lot 00012557) Purity 99%	2,502.6 µg/mL	+/- 19.3699 µg/mL +/- 140.9018 µg/mL +/- 144.1719 µg/mL	Gravimetric Unstressed Stressed	
4	1,3-Butadiene CAS # 106-99-0 (Lot SHBK2299) Purity 99%	2,502.4 µg/mL	+/- 21.0409 µg/mL +/- 141.1253 µg/mL +/- 144.3895 µg/mL	Gravimetric Unstressed Stressed	
5	Bromomethane (methyl bromide) CAS # 74-83-9 (Lot 101604) Purity 99%	2,501.9 µg/mL	+/- 18.1039 µg/mL +/- 140.6930 µg/mL +/- 143.9660 µg/mL	Gravimetric Unstressed Stressed	
6	Chloroethane (ethyl chloride) CAS # 75-00-3 (Lot 107-401039114-1) Purity 99%	2,498.4 µg/mL	+/- 18.1959 µg/mL +/- 140.5102 µg/mL +/- 143.7782 µg/mL	Gravimetric Unstressed Stressed	
7	Dichlorofluoromethane (CFC-21) CAS # 75-43-4 (Lot 7978700) Purity 99%	2,500.0 µg/mL	+/- 14.5352 µg/mL +/- 140.1725 µg/mL +/- 143.4524 µg/mL	Gravimetric Unstressed Stressed	

8	Trichlorofluoromethane (CFC-11)	2,505.7 µg/mL	+/-	19.3191	µg/mL	Gravimetric
	CAS # 75-69-4 (Lot SHBH4155V)		+/-	141.0656	µg/mL	Unstressed
	Purity 99%		+/-	144.3399	µg/mL	Stressed

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

Tech Tips:

Raw material may contain trace amounts of tert-Butanol.

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

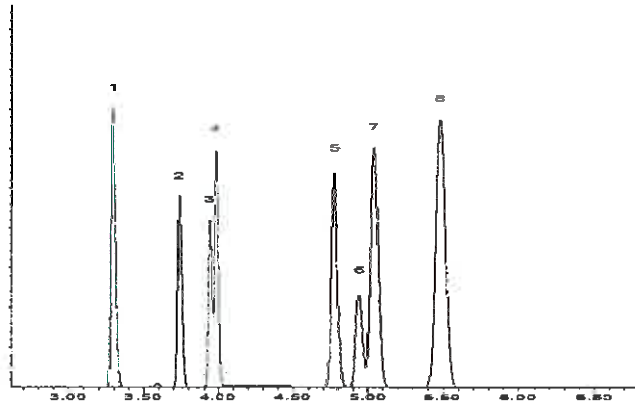
Carrier Gas:
 helium-constant pressure 30 psi

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

Inj. Temp:
 200°C

Det. Temp:
 250°C

Det. Type:
 MSD



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

Tom Suckar
 Tom Suckar - Mix Technician

Date Mixed: 05-Mar-2019 **Balance:** B707717271

John Lidgett
 John Lidgett - AD Chemist

Date Passed: 12-Mar-2019

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, 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:

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

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

VOA8260INTRES_00164



CERTIFIED REFERENCE MATERIAL

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

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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. : 568718 **Lot No.:** A0145169
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, 2024 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
			+/-	µg/mL	Method
1	tert-Butyl-d9-alcohol CAS # 25725-11-5 Purity 98% (Lot CD-107)	5,044.0 µg/mL	+/-	29.3246	Gravimetric
			+/-	107.9918	Unstressed
			+/-	111.1314	Stressed
2	2-Butanone-d5 CAS # 24313-50-6 Purity 99% (Lot M-276)	1,254.2 µg/mL	+/-	7.2922	Gravimetric
			+/-	26.8533	Unstressed
			+/-	27.6340	Stressed
3	Fluorobenzene CAS # 462-06-6 Purity 99% (Lot BCBK8171V)	252.1 µg/mL	+/-	1.4689	Gravimetric
			+/-	5.3977	Unstressed
			+/-	5.5545	Stressed
4	1,4-Dioxane-d8 CAS # 17647-74-4 Purity 99% (Lot I-19942)	5,027.8 µg/mL	+/-	29.2304	Gravimetric
			+/-	107.6448	Unstressed
			+/-	110.7743	Stressed
5	Chlorobenzene-d5 CAS # 3114-55-4 Purity 99% (Lot PR-23926)	250.6 µg/mL	+/-	1.4603	Gravimetric
			+/-	5.3661	Unstressed
			+/-	5.5220	Stressed
6	1,4-Dichlorobenzene-d4 CAS # 3855-82-1 Purity 99% (Lot PR-18488)	251.6 µg/mL	+/-	1.4660	Gravimetric
			+/-	5.3871	Unstressed
			+/-	5.5436	Stressed

Reagent

VOA8260INTSUR_00019



CERTIFIED REFERENCE MATERIAL

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

Certificate of Analysis



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 570812 **Lot No.:** A0124021
Description : 8260 IS/Surrogate Mix (2016)
8260 IS/Surrogate Mix (2016) 250-5000 µg/ml, P&T Methanol, 5 ml/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : January 31, 2022 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	tert-Butyl-d9-alcohol	5,000.4 µg/mL	+/-	29.0728	µg/mL	Gravimetric
	CAS # 25725-11-5 (Lot I-201)		+/-	107.0592	µg/mL	Unstressed
	Purity 99%		+/-	110.1716	µg/mL	Stressed
2	Dibromofluoromethane	250.4 µg/mL	+/-	1.4592	µg/mL	Gravimetric
	CAS # 1868-53-7 (Lot 0012016)		+/-	5.3620	µg/mL	Unstressed
	Purity 99%		+/-	5.5178	µg/mL	Stressed
3	1,2-Dichloroethane-d4	250.4 µg/mL	+/-	1.4592	µg/mL	Gravimetric
	CAS # 17060-07-0 (Lot PR-25433)		+/-	5.3618	µg/mL	Unstressed
	Purity 98%		+/-	5.5176	µg/mL	Stressed
4	1,4-Dioxane-d8	5,000.1 µg/mL	+/-	29.0710	µg/mL	Gravimetric
	CAS # 17647-74-4 (Lot I-19942)		+/-	107.0527	µg/mL	Unstressed
	Purity 99%		+/-	110.1649	µg/mL	Stressed
5	Fluorobenzene	250.5 µg/mL	+/-	1.4598	µg/mL	Gravimetric
	CAS # 462-06-6 (Lot BCBK8171V)		+/-	5.3641	µg/mL	Unstressed
	Purity 99%		+/-	5.5200	µg/mL	Stressed
6	Toluene-d8	250.1 µg/mL	+/-	1.4575	µg/mL	Gravimetric
	CAS # 2037-26-5 (Lot PR-27311)		+/-	5.3556	µg/mL	Unstressed
	Purity 99%		+/-	5.5112	µg/mL	Stressed
7	Chlorobenzene-d5	250.3 µg/mL	+/-	1.4586	µg/mL	Gravimetric
	CAS # 3114-55-4 (Lot PR-23926)		+/-	5.3599	µg/mL	Unstressed
	Purity 99%		+/-	5.5156	µg/mL	Stressed

8	1-Bromo-4-fluorobenzene (BFB) CAS # 460-00-4 Purity 99%	(Lot 20401KOV)	250.7 µg/mL	+/- 1.4610 +/- 5.3684 +/- 5.5244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	1,4-Dichlorobenzene-d4 CAS # 3855-82-1 Purity 99%	(Lot PR-18488)	250.6 µg/mL	+/- 1.4604 +/- 5.3663 +/- 5.5222	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

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

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

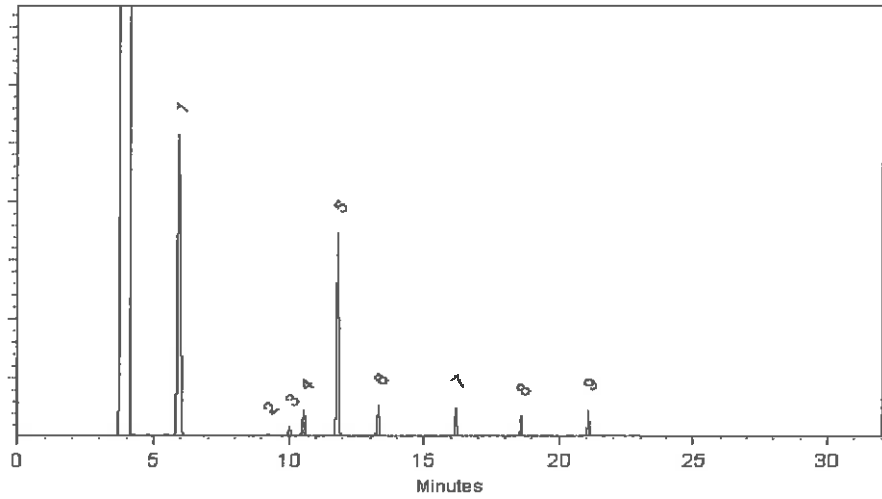
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Michael Maje

Date Mixed: 06-Jan-2017 Balance: 1127510105

Jennifer J. Pollino
Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 09-Jan-2017

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

Reagent

VOA8260KET1ST_00133



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 569721 **Lot No.:** A0143988
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 : December 31, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Acetone	12,500.5 µg/mL	+/-	72.6790	µg/mL	Gravimetric
	CAS # 67-64-1 (Lot SHBJ7699)		+/-	754.2106	µg/mL	Unstressed
	Purity 99%		+/-	756.0012	µg/mL	Stressed
2	2-Butanone (MEK)	12,501.0 µg/mL	+/-	72.6819	µg/mL	Gravimetric
	CAS # 78-93-3 (Lot SHBF2461 V)		+/-	754.2407	µg/mL	Unstressed
	Purity 99%		+/-	756.0314	µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	12,501.5 µg/mL	+/-	72.6848	µg/mL	Gravimetric
	CAS # 108-10-1 (Lot SHBH8930)		+/-	754.2709	µg/mL	Unstressed
	Purity 99%		+/-	756.0617	µg/mL	Stressed
4	2-Hexanone	12,501.8 µg/mL	+/-	72.6863	µg/mL	Gravimetric
	CAS # 591-78-6 (Lot MKCD9048)		+/-	754.2860	µg/mL	Unstressed
	Purity 99%		+/-	756.0768	µg/mL	Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

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

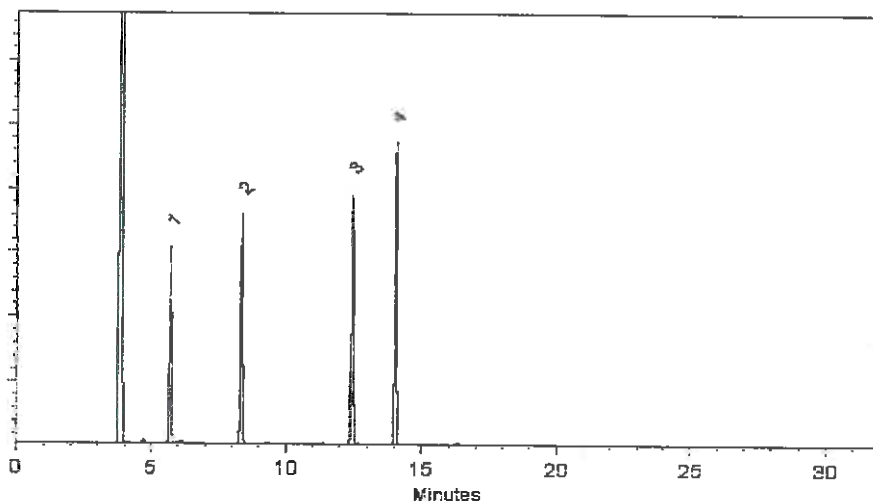
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

F. Joseph Talion - Mix Technician

Date Mixed: 11-Dec-2018 Balance: B251644995

Jennifer 2 Pollino
Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 14-Dec-2018

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

VOA8260MEGA1_00089

RESTEK CERTIFIED REFERENCE MATERIAL

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 Bellefonte, PA 16823-8812
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 Fax: (814)353-1309

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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.: A0143774
 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 : June 30, 2021 Storage: 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Diethyl ether (ethyl ether)	2,500.6 µg/mL (Lot SHBJ5713)	+/-	14.5388	µg/mL	Gravimetric
	CAS # 60-29-7		+/-	150.8738	µg/mL	Unstressed
	Purity 99%		+/-	151.2320	µg/mL	Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113)	2,501.6 µg/mL (Lot 00009482)	+/-	14.5447	µg/mL	Gravimetric
	CAS # 76-13-1		+/-	150.9341	µg/mL	Unstressed
	Purity 99%		+/-	151.2925	µg/mL	Stressed
3	1,1-dichloroethene	2,501.9 µg/mL (Lot SHBG8609V)	+/-	14.5461	µg/mL	Gravimetric
	CAS # 75-35-4		+/-	150.9492	µg/mL	Unstressed
	Purity 99%		+/-	151.3076	µg/mL	Stressed
4	tert-Butanol (TBA)	25,008.1 µg/mL (Lot SHBJ9404)	+/-	145.3918	µg/mL	Gravimetric
	CAS # 75-65-0		+/-	1,508.8503	µg/mL	Unstressed
	Purity 99%		+/-	1,512.4325	µg/mL	Stressed
5	Methyl acetate	5,000.8 µg/mL (Lot SHBG4345V)	+/-	29.0748	µg/mL	Gravimetric
	CAS # 79-20-9		+/-	301.7174	µg/mL	Unstressed
	Purity 99%		+/-	302.4337	µg/mL	Stressed
6	Iodomethane (methyl iodide)	2,500.6 µg/mL (Lot SHBH4362V)	+/-	14.5388	µg/mL	Gravimetric
	CAS # 74-88-4		+/-	150.8738	µg/mL	Unstressed
	Purity 99%		+/-	151.2320	µg/mL	Stressed
7	Allyl chloride (3-chloropropene)	2,502.0 µg/mL (Lot WXBB7852V)	+/-	14.5468	µg/mL	Gravimetric
	CAS # 107-05-1		+/-	150.9567	µg/mL	Unstressed
	Purity 99%		+/-	151.3151	µg/mL	Stressed

8	Methylene chloride (dichloromethane) CAS # 75-09-2 Purity 99%	(Lot SHBK5095)	2,500.8 µg/mL	+/- 14.5396 +/- 150.8813 +/- 151.2395	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	Carbon disulfide CAS # 75-15-0 Purity 99%	(Lot U22D706)	2,501.1 µg/mL	+/- 14.5418 +/- 150.9040 +/- 151.2622	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	Acrylonitrile CAS # 107-13-1 Purity 99%	(Lot R15D047)	25,010.4 µg/mL	+/- 145.4049 +/- 1,508.9860 +/- 1,512.5686	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
11	Methyl-tert-butyl ether (MTBE) CAS # 1634-04-4 Purity 99%	(Lot SHBH9526)	2,500.3 µg/mL	+/- 14.5367 +/- 150.8512 +/- 151.2093	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
12	cis-1,2-Dichloroethene CAS # 156-59-2 Purity 99%	(Lot MKBX5945V)	2,501.3 µg/mL	+/- 14.5425 +/- 150.9115 +/- 151.2698	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
13	n-Hexane (C6) CAS # 110-54-3 Purity 99%	(Lot SHBH8106)	2,500.8 µg/mL	+/- 14.5396 +/- 150.8813 +/- 151.2395	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
14	1,1-Dichloroethane CAS # 75-34-3 Purity 99%	(Lot 462600)	2,500.4 µg/mL	+/- 14.5374 +/- 150.8587 +/- 151.2169	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
15	2,2-Dichloropropane CAS # 594-20-7 Purity 99%	(Lot BCBT5124)	2,500.9 µg/mL	+/- 14.5403 +/- 150.8889 +/- 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
16	trans-1,2-Dichloroethene CAS # 156-60-5 Purity 99%	(Lot MKBH9850V)	2,500.3 µg/mL	+/- 14.5367 +/- 150.8512 +/- 151.2093	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
17	Isobutanol (2-Methyl-1-propanol) CAS # 78-83-1 Purity 99%	(Lot SHBK0551)	62,500.9 µg/mL	+/- 363.3665 +/- 3,770.9529 +/- 3,779.9058	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
18	chloroform CAS # 67-66-3 Purity 99%	(Lot SHBJ9076)	2,500.5 µg/mL	+/- 14.5381 +/- 150.8662 +/- 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
19	Bromochloromethane CAS # 74-97-5 Purity 98%	(Lot 00008541)	2,500.6 µg/mL	+/- 14.5387 +/- 150.8718 +/- 151.2300	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
20	Tetrahydrofuran CAS # 109-99-9 Purity 99%	(Lot SHBJ6179)	5,000.6 µg/mL	+/- 29.0741 +/- 301.7099 +/- 302.4262	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
21	1,1,1-trichloroethane CAS # 71-55-6 Purity 99%	(Lot B15W12061)	2,500.8 µg/mL	+/- 14.5396 +/- 150.8813 +/- 151.2395	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
22	Cyclohexane CAS # 110-82-7 Purity 99%	(Lot MKCC9660)	2,500.9 µg/mL	+/- 14.5403 +/- 150.8889 +/- 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
23	1,1-Dichloropropene CAS # 563-58-6 Purity 99%	(Lot 180531JLM)	2,500.6 µg/mL	+/- 14.5388 +/- 150.8738 +/- 151.2320	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

24	carbon tetrachloride CAS # 56-23-5 Purity 99%	(Lot SHBJ2110)	2,501.1	µg/mL	+/-	14.5418	µg/mL	Gravimetric
					+/-	150.9040	µg/mL	Unstressed
					+/-	151.2622	µg/mL	Stressed
25	n-Heptane (C7) CAS # 142-82-5 Purity 99%	(Lot SHBJ2424)	2,501.6	µg/mL	+/-	14.5447	µg/mL	Gravimetric
					+/-	150.9341	µg/mL	Unstressed
					+/-	151.2925	µg/mL	Stressed
26	1,2-Dichloroethane CAS # 107-06-2 Purity 99%	(Lot SHBJ0707)	2,501.3	µg/mL	+/-	14.5425	µg/mL	Gravimetric
					+/-	150.9115	µg/mL	Unstressed
					+/-	151.2698	µg/mL	Stressed
27	Benzene CAS # 71-43-2 Purity 99%	(Lot SHBJ5344)	2,500.9	µg/mL	+/-	14.5403	µg/mL	Gravimetric
					+/-	150.8889	µg/mL	Unstressed
					+/-	151.2471	µg/mL	Stressed
28	Trichloroethene CAS # 79-01-6 Purity 99%	(Lot SHBH1955V)	2,500.5	µg/mL	+/-	14.5381	µg/mL	Gravimetric
					+/-	150.8662	µg/mL	Unstressed
					+/-	151.2244	µg/mL	Stressed
29	Methylcyclohexane CAS # 108-87-2 Purity 99%	(Lot SHBJ0457)	2,501.6	µg/mL	+/-	14.5447	µg/mL	Gravimetric
					+/-	150.9341	µg/mL	Unstressed
					+/-	151.2925	µg/mL	Stressed
30	1,2-Dichloropropane CAS # 78-87-5 Purity 99%	(Lot BCBR0882V)	2,500.5	µg/mL	+/-	14.5381	µg/mL	Gravimetric
					+/-	150.8662	µg/mL	Unstressed
					+/-	151.2244	µg/mL	Stressed
31	1,4-Dioxane CAS # 123-91-1 Purity 99%	(Lot SHBJ7415)	50,001.1	µg/mL	+/-	290.6957	µg/mL	Gravimetric
					+/-	3,016.7880	µg/mL	Unstressed
					+/-	3,023.9503	µg/mL	Stressed
32	Dibromomethane CAS # 74-95-3 Purity 99%	(Lot 10201030)	2,502.0	µg/mL	+/-	14.5468	µg/mL	Gravimetric
					+/-	150.9567	µg/mL	Unstressed
					+/-	151.3151	µg/mL	Stressed
33	cis-1,3-Dichloropropene CAS # 10061-01-5 Purity 99%	(Lot 25076)	2,501.4	µg/mL	+/-	14.5432	µg/mL	Gravimetric
					+/-	150.9190	µg/mL	Unstressed
					+/-	151.2773	µg/mL	Stressed
34	Toluene CAS # 108-88-3 Purity 99%	(Lot SHBJ5659)	2,500.1	µg/mL	+/-	14.5359	µg/mL	Gravimetric
					+/-	150.8436	µg/mL	Unstressed
					+/-	151.2017	µg/mL	Stressed
35	Ethyl methacrylate CAS # 97-63-2 Purity 99%	(Lot 69796APV)	2,502.8	µg/mL	+/-	14.5512	µg/mL	Gravimetric
					+/-	151.0020	µg/mL	Unstressed
					+/-	151.3605	µg/mL	Stressed
36	trans-1,3-Dichloropropene CAS # 10061-02-6 Purity 98%	(Lot C797620)	2,500.6	µg/mL	+/-	14.5387	µg/mL	Gravimetric
					+/-	150.8718	µg/mL	Unstressed
					+/-	151.2300	µg/mL	Stressed
37	1,1,2-Trichloroethane CAS # 79-00-5 Purity 99%	(Lot FGB01)	2,500.4	µg/mL	+/-	14.5374	µg/mL	Gravimetric
					+/-	150.8587	µg/mL	Unstressed
					+/-	151.2169	µg/mL	Stressed
38	1,3-Dichloropropane CAS # 142-28-9 Purity 99%	(Lot BCBG2162V)	2,500.9	µg/mL	+/-	14.5403	µg/mL	Gravimetric
					+/-	150.8889	µg/mL	Unstressed
					+/-	151.2471	µg/mL	Stressed
39	Tetrachloroethene CAS # 127-18-4 Purity 99%	(Lot SHBH9691)	2,501.0	µg/mL	+/-	14.5410	µg/mL	Gravimetric
					+/-	150.8964	µg/mL	Unstressed
					+/-	151.2547	µg/mL	Stressed

40	dibromochloromethane CAS # 124-48-1 Purity 98%	(Lot MKCC0877)	2,502.4 µg/mL	+/- 14.5493 +/- 150.9827 +/- 151.3411	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
41	1,2-Dibromoethane (EDB) CAS # 106-93-4 Purity 99%	(Lot BCBH3877V)	2,500.4 µg/mL	+/- 14.5374 +/- 150.8587 +/- 151.2169	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
42	Chlorobenzene CAS # 108-90-7 Purity 99%	(Lot SHBH4459V)	2,501.1 µg/mL	+/- 14.5418 +/- 150.9040 +/- 151.2622	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
43	m-Xylene CAS # 108-38-3 Purity 99%	(Lot SHBJ2338)	1,251.5 µg/mL	+/- 7.2763 +/- 75.5085 +/- 75.6878	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
44	p-Xylene CAS # 106-42-3 Purity 99%	(Lot SHBJ0052)	1,250.1 µg/mL	+/- 7.2683 +/- 75.4256 +/- 75.6047	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
45	Ethylbenzene CAS # 100-41-4 Purity 99%	(Lot SHBJ3183)	2,500.0 µg/mL	+/- 14.5352 +/- 150.8361 +/- 151.1942	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
46	1,1,1,2-Tetrachloroethane CAS # 630-20-6 Purity 99%	(Lot MKBS3769V)	2,500.0 µg/mL	+/- 14.5352 +/- 150.8361 +/- 151.1942	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
47	o-Xylene CAS # 95-47-6 Purity 99%	(Lot SHBH7231)	2,500.8 µg/mL	+/- 14.5396 +/- 150.8813 +/- 151.2395	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
48	Styrene CAS # 100-42-5 Purity 99%	(Lot MKCC9766)	2,500.0 µg/mL	+/- 14.5352 +/- 150.8361 +/- 151.1942	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
49	Isopropylbenzene (cumene) CAS # 98-82-8 Purity 99%	(Lot 10185056)	2,500.1 µg/mL	+/- 14.5359 +/- 150.8436 +/- 151.2017	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
50	bromoform CAS # 75-25-2 Purity 99%	(Lot SHBG3138V)	2,501.0 µg/mL	+/- 14.5410 +/- 150.8964 +/- 151.2547	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
51	bromodichloromethane CAS # 75-27-4 Purity 99%	(Lot MKCF8470)	2,501.6 µg/mL	+/- 14.5447 +/- 150.9341 +/- 151.2925	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
52	1,1,2,2-Tetrachloroethane CAS # 79-34-5 Purity 99%	(Lot CFA4D)	2,500.5 µg/mL	+/- 14.5381 +/- 150.8662 +/- 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
53	1,2,3-Trichloropropane CAS # 96-18-4 Purity 99%	(Lot BCBH8722V)	2,501.3 µg/mL	+/- 14.5425 +/- 150.9115 +/- 151.2698	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
54	trans-1,4-dichloro-2-butene CAS # 110-57-6 Purity 94%	(Lot MKBX7788V)	2,500.0 µg/mL	+/- 14.5355 +/- 150.8389 +/- 151.1971	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
55	n-Propylbenzene CAS # 103-65-1 Purity 99%	(Lot WXBC3346V)	2,500.0 µg/mL	+/- 14.5352 +/- 150.8361 +/- 151.1942	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

56	Bromobenzene CAS # 108-86-1 Purity 99%	(Lot WXBC5147V)	2,500.1 µg/mL	+/- 14.5359 +/- 150.8436 +/- 151.2017	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
57	1,3,5-Trimethylbenzene CAS # 108-67-8 Purity 99%	(Lot BCBS7648V)	2,500.5 µg/mL	+/- 14.5381 +/- 150.8662 +/- 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
58	2-Chlorotoluene CAS # 95-49-8 Purity 99%	(Lot MKBW5554V)	2,500.1 µg/mL	+/- 14.5359 +/- 150.8436 +/- 151.2017	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
59	4-Chlorotoluene CAS # 106-43-4 Purity 99%	(Lot MKBL7753V)	2,500.9 µg/mL	+/- 14.5403 +/- 150.8889 +/- 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
60	tert-Butylbenzene CAS # 98-06-6 Purity 99%	(Lot STBD6954V)	2,500.1 µg/mL	+/- 14.5359 +/- 150.8436 +/- 151.2017	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
61	1,2,4-Trimethylbenzene CAS # 95-63-6 Purity 97%	(Lot MKBH5027V)	2,499.9 µg/mL	+/- 14.5348 +/- 150.8320 +/- 151.1901	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
62	sec-Butylbenzene CAS # 135-98-8 Purity 99%	(Lot MKBR9260V)	2,501.1 µg/mL	+/- 14.5418 +/- 150.9040 +/- 151.2622	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
63	p-Isopropyltoluene (p-Cymene) CAS # 99-87-6 Purity 99%	(Lot MKBV3556V)	2,501.1 µg/mL	+/- 14.5418 +/- 150.9040 +/- 151.2622	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
64	1,3-Dichlorobenzene CAS # 541-73-1 Purity 99%	(Lot BCBQ7100V)	2,501.4 µg/mL	+/- 14.5432 +/- 150.9190 +/- 151.2773	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
65	1,4-Dichlorobenzene CAS # 106-46-7 Purity 99%	(Lot MKBS4401V)	2,501.5 µg/mL	+/- 14.5439 +/- 150.9266 +/- 151.2849	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
66	n-Butylbenzene CAS # 104-51-8 Purity 99%	(Lot 09804AE)	2,501.0 µg/mL	+/- 14.5410 +/- 150.8964 +/- 151.2547	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
67	1,2-Dichlorobenzene CAS # 95-50-1 Purity 99%	(Lot SHBG3111V)	2,502.9 µg/mL	+/- 14.5519 +/- 151.0095 +/- 151.3681	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
68	1,2-Dibromo-3-chloropropane CAS # 96-12-8 Purity 99%	(Lot FBL01)	2,502.0 µg/mL	+/- 14.5468 +/- 150.9567 +/- 151.3151	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
69	1,2,4-Trichlorobenzene CAS # 120-82-1 Purity 99%	(Lot SHBJ9215)	2,502.1 µg/mL	+/- 14.5476 +/- 150.9643 +/- 151.3227	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
70	Hexachlorobutadiene CAS # 87-68-3 Purity 99%	(Lot J31X013)	2,501.5 µg/mL	+/- 14.5439 +/- 150.9266 +/- 151.2849	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
71	Naphthalene CAS # 91-20-3 Purity 99%	(Lot MKBZ8680V)	2,502.8 µg/mL	+/- 14.5512 +/- 151.0020 +/- 151.3605	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

72	1,2,3-Trichlorobenzene		2,502.5 µg/mL	+/-	14.5498	µg/mL	Gravimetric
	CAS # 87-61-6	(Lot MKBX7627V)		+/-	150.9869	µg/mL	Unstressed
	Purity 99%			+/-	151.3454	µg/mL	Stressed

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

Column:

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

Carrier Gas:

helium-constant pressure 30 psi

Temp. Program:

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

Inj. Temp:

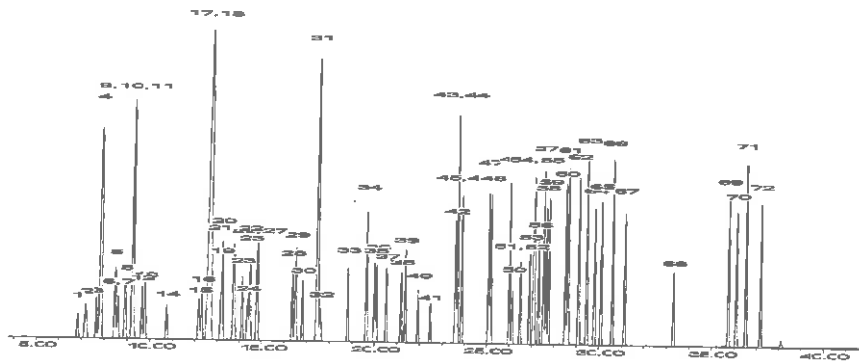
200°C

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.

F. Joseph Tailon
 F. Joseph Tailon - Mix Technician

Date Mixed: 05-Dec-2018

Balance: B251644995

Diane Shaffer
 Diane Shaffer - Operations Tech-ARM QC

Date Passed: 21-Dec-2018

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

Reagent

VOA8260SURRES_00161



CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 567650 **Lot No.:** A0143613

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 : November 30, 2023 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Dibromofluoromethane	2,506.4 µg/mL	+/-	14.5724	µg/mL	Gravimetric
	CAS # 1868-53-7 (Lot 0012017)		+/-	140.5314	µg/mL	Unstressed
	Purity 99%		+/-	143.8196	µg/mL	Stressed
2	1,2-Dichloroethane-d4	2,503.8 µg/mL	+/-	14.5570	µg/mL	Gravimetric
	CAS # 17060-07-0 (Lot PR-29377)		+/-	140.3828	µg/mL	Unstressed
	Purity 99%		+/-	143.6676	µg/mL	Stressed
3	Toluene-d8	2,512.2 µg/mL	+/-	14.6059	µg/mL	Gravimetric
	CAS # 2037-26-5 (Lot PR-27311)		+/-	140.8538	µg/mL	Unstressed
	Purity 99%		+/-	144.1496	µg/mL	Stressed
4	1-Bromo-4-fluorobenzene (BFB)	2,501.8 µg/mL	+/-	14.5457	µg/mL	Gravimetric
	CAS # 460-00-4 (Lot 20401.KO)		+/-	140.2734	µg/mL	Unstressed
	Purity 99%		+/-	143.5557	µg/mL	Stressed

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

Reagent

VOA8260VARES_00122



CERTIFIED REFERENCE MATERIAL

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

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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. : 569724 **Lot No.:** A0152359

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 : February 29, 2020 **Storage:** 0°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Vinyl acetate CAS # 108-05-4 Purity 99% (Lot STBD7333V)	5,041.0 µg/mL	+/- 29.5162 µg/mL Gravimetric +/- 304.1659 µg/mL Unstressed +/- 304.8880 µg/mL Stressed

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

Tech Tips:

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

Column:

105m x 0.53mm x 3.0µm
Rtx-S02.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

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

Inj. Temp:

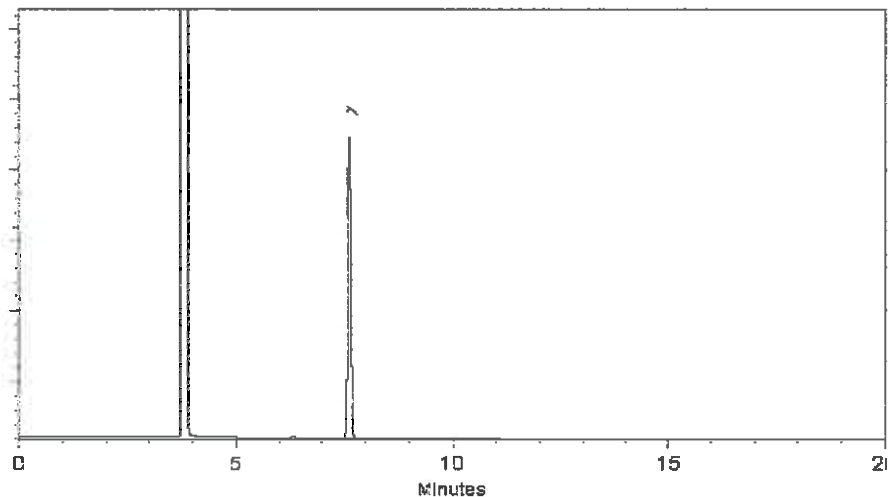
200°C

Det. Temp:

250°C

Det. Type:

FID



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

Tom Sućkar - Mix Technician

Date Mixed: 28-Aug-2019

Balance: B707717271

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 29-Aug-2019

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

VOAACRORES_00148



CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 568720 **Lot No.:** A0147676

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 : October 31, 2019 **Storage:** 0°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Acrolein CAS # 107-02-8 Purity 99% (Lot 0012014-D0218)	19,822.0 µg/mL	+/-	116.0622	µg/mL	Gravimetric
			+/-	635.5556	µg/mL	Unstressed
			+/-	738.7639	µg/mL	Stressed

Solvent: Water
CAS # 7732-18-5
Purity 99%

Reagent

VOABFBRES_00088



CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 30067 **Lot No.:** A0147670

Description : 4-Bromofluorobenzene Standard

4-Bromofluorobenzene Standard 2,500µg/mL, P&T Methanol, 1mL/ampul

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

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

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1-Bromo-4-fluorobenzene (BFB) CAS # 460-00-4 (Lot 20401KO) Purity 99%	2,511.0 µg/mL	+/- 14.7360	µg/mL	Gravimetric
			+/- 140.8035	µg/mL	Unstressed
			+/- 144.0975	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)

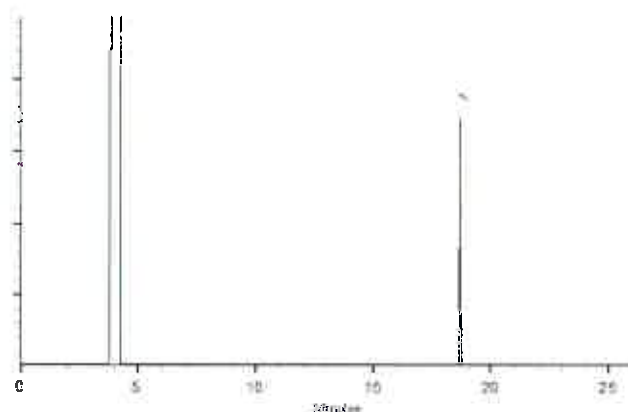
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Dustin J. Lidgett

Dustin Lidgett - Mix Technician

Date Mixed: 01-Apr-2019

Balance: 1127510105

Justin Albertson

Justin Albertson - Operations Tech-ARM GC

Date Passed: 04-Apr-2019

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, 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:

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

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.

Method 8260C Low Level

Volatile Organic Compounds (GC/MS)
by Method 8260C Low Level

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1

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 #
HD-COD-SW-17-0/1-0	180-97133-1	100	113	101	98
HD-MW-6-0/1-0	180-97133-2	104	115	104	100
HD-MW-5-0/1-0	180-97133-3	107	112	104	104
HD-MW-111-0/1-0	180-97133-4	108	112	108	102
HD-MW-79-0/1-0	180-97133-5	105	114	104	102
HD-MW-115-0/1-0	180-97133-6	87	100	116	110
HD-MW-115-0/1-0 DL	180-97133-6 DL	102	114	104	106
HD-MW-88-0/1-0	180-97133-7	115	113	102	101
HD-QC8-0/1-2	180-97133-8	107	114	107	102
	MB 180-295448/6	98	112	111	104
	MB 180-295765/6	95	108	119	107
	LCS 180-295448/4	96	104	110	113
	LCS 180-295765/4	94	103	112	113

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

QC LIMITS

75-147
70-150
78-128
64-123

Column to be used to flag recovery values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 6101904A.D

Lab ID: LCS 180-295448/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Chloromethane	10.0	9.58	96	37-150	
Vinyl chloride	10.0	9.53	95	50-150	
Bromomethane	10.0	9.17	92	35-150	
Chloroethane	10.0	9.63	96	52-150	
1,1-Dichloroethene	10.0	10.8	108	79-132	
Acetone	20.0	21.9	109	37-150	
Carbon disulfide	10.0	9.89	99	66-134	
Methylene Chloride	10.0	9.65	97	72-131	
trans-1,2-Dichloroethene	10.0	10.4	104	81-126	
Methyl tert-butyl ether	10.0	10.0	100	65-125	
1,1-Dichloroethane	10.0	9.73	97	70-127	
cis-1,2-Dichloroethene	10.0	9.89	99	79-119	
Bromochloromethane	10.0	10.1	101	74-124	
2-Butanone (MEK)	20.0	21.7	109	35-150	
Chloroform	10.0	9.67	97	75-126	
1,1,1-Trichloroethane	10.0	10.1	101	63-142	
Carbon tetrachloride	10.0	10.4	104	55-150	
Benzene	10.0	10.1	101	72-127	
1,2-Dichloroethane	10.0	9.83	98	60-138	
Trichloroethene	10.0	9.85	98	81-121	
1,2-Dichloropropane	10.0	10.3	103	67-124	
Bromodichloromethane	10.0	9.59	96	67-131	
cis-1,3-Dichloropropene	10.0	10.4	104	69-122	
4-Methyl-2-pentanone (MIBK)	20.0	22.8	114	19-150	
Toluene	10.0	11.0	110	73-123	
trans-1,3-Dichloropropene	10.0	10.7	107	61-122	
1,1,2-Trichloroethane	10.0	11.1	111	72-120	
Tetrachloroethene	10.0	10.9	109	69-134	
2-Hexanone	20.0	21.7	108	24-150	
Dibromochloromethane	10.0	10.9	109	59-134	
1,2-Dibromoethane (EDB)	10.0	10.3	103	65-129	
Chlorobenzene	10.0	11.1	111	76-119	
1,1,1,2-Tetrachloroethane	10.0	10.8	108	65-132	
Ethylbenzene	10.0	10.4	104	76-118	
Xylenes, Total	20.0	21.3	106	76-116	
Styrene	10.0	11.2	112	74-118	
Bromoform	10.0	9.62	96	50-146	
1,1,2,2-Tetrachloroethane	10.0	10.9	109	57-135	
Acrylonitrile	100	106	106	43-149	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 6102304A.D

Lab ID: LCS 180-295765/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Chloromethane	10.0	13.0	130	37-150	
Vinyl chloride	10.0	11.3	113	50-150	
Bromomethane	10.0	10.7	107	35-150	
Chloroethane	10.0	12.9	129	52-150	
1,1-Dichloroethene	10.0	10.7	107	79-132	
Acetone	20.0	18.5	92	37-150	
Carbon disulfide	10.0	10.7	107	66-134	
Methylene Chloride	10.0	11.1	111	72-131	
trans-1,2-Dichloroethene	10.0	10.3	103	81-126	
Methyl tert-butyl ether	10.0	10.3	103	65-125	
1,1-Dichloroethane	10.0	12.0	120	70-127	
cis-1,2-Dichloroethene	10.0	10.6	106	79-119	
Bromochloromethane	10.0	9.89	99	74-124	
2-Butanone (MEK)	20.0	23.7	119	35-150	
Chloroform	10.0	10.4	104	75-126	
1,1,1-Trichloroethane	10.0	9.82	98	63-142	
Carbon tetrachloride	10.0	9.50	95	55-150	
Benzene	10.0	11.2	112	72-127	
1,2-Dichloroethane	10.0	9.76	98	60-138	
Trichloroethene	10.0	9.86	99	81-121	
1,2-Dichloropropane	10.0	12.1	121	67-124	
Bromodichloromethane	10.0	10.6	106	67-131	
cis-1,3-Dichloropropene	10.0	11.4	114	69-122	
4-Methyl-2-pentanone (MIBK)	20.0	28.2	141	19-150	
Toluene	10.0	11.3	113	73-123	
trans-1,3-Dichloropropene	10.0	10.7	107	61-122	
1,1,2-Trichloroethane	10.0	11.1	111	72-120	
Tetrachloroethene	10.0	10.9	109	69-134	
2-Hexanone	20.0	24.4	122	24-150	
Dibromochloromethane	10.0	9.73	97	59-134	
1,2-Dibromoethane (EDB)	10.0	11.0	110	65-129	
Chlorobenzene	10.0	10.5	105	76-119	
1,1,1,2-Tetrachloroethane	10.0	10.1	101	65-132	
Ethylbenzene	10.0	11.3	113	76-118	
Xylenes, Total	20.0	22.7	113	76-116	
Styrene	10.0	11.1	111	74-118	
Bromoform	10.0	10.3	103	50-146	
1,1,2,2-Tetrachloroethane	10.0	11.5	115	57-135	
Acrylonitrile	100	143	143	43-149	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1
 SDG No.: _____
 Lab File ID: 6101906A.D Lab Sample ID: MB 180-295448/6
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: CHHP6 Date Analyzed: 10/19/2019 15:44
 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 180-295448/4	6101904A.D	10/19/2019 14:25
HD-COD-SW-17-0/1-0	180-97133-1	6101909.D	10/19/2019 17:02
HD-MW-6-0/1-0	180-97133-2	6101910.D	10/19/2019 17:28
HD-MW-5-0/1-0	180-97133-3	6101911.D	10/19/2019 17:54
HD-MW-111-0/1-0	180-97133-4	6101912.D	10/19/2019 18:20
HD-QC8-0/1-2	180-97133-8	6101913.D	10/19/2019 18:46
HD-MW-79-0/1-0	180-97133-5	6101921.D	10/19/2019 22:14
HD-MW-115-0/1-0 DL	180-97133-6 DL	6101922.D	10/19/2019 22:40
HD-MW-88-0/1-0	180-97133-7	6101923.D	10/19/2019 23:06

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1
SDG No.: _____
Lab File ID: 6102306A.D Lab Sample ID: MB 180-295765/6
Matrix: Water Heated Purge: (Y/N) N
Instrument ID: CHHP6 Date Analyzed: 10/23/2019 12:13
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 180-295765/4	6102304A.D	10/23/2019 10:55
HD-MW-115-0/1-0	180-97133-6	6102317.D	10/23/2019 17:01

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

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1

SDG No.: _____

Lab File ID: 6101807A.D BFB Injection Date: 10/18/2019

Instrument ID: CHHP6 BFB Injection Time: 14:05

Analysis Batch No.: 295392

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	24.4
75	30.0 - 60.0 % of mass 95	50.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.4
173	Less than 2.0 % of mass 174	0.1 (0.2) 1
174	50.0 - 120.00 % of mass 95	67.3
175	5.0 - 9.0 % of mass 174	3.5 (5.2) 1
176	95.0 - 101.0 % of mass 174	66.6 (99.0) 1
177	5.0 - 9.0 % of mass 176	4.8 (7.3) 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 180-295392/4	6101810.D	10/18/2019	15:43
	IC 180-295392/5	6101811.D	10/18/2019	16:10
	ICIS 180-295392/6	6101812.D	10/18/2019	16:37
	IC 180-295392/7	6101813.D	10/18/2019	17:02
	IC 180-295392/8	6101814.D	10/18/2019	17:29
	IC 180-295392/9	6101815.D	10/18/2019	17:55
	IC 180-295392/10	6101816.D	10/18/2019	18:21
	IC 180-295392/11	6101817.D	10/18/2019	18:47

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

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1
 SDG No.: _____
 Lab File ID: 6101901D.D BFB Injection Date: 10/19/2019
 Instrument ID: CHHP6 BFB Injection Time: 12:45
 Analysis Batch No.: 295448

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	22.1
75	30.0 - 60.0 % of mass 95	44.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	5.2
173	Less than 2.0 % of mass 174	0.1 (0.1) 1
174	50.0 - 120.00 % of mass 95	63.8
175	5.0 - 9.0 % of mass 174	4.4 (6.9) 1
176	95.0 - 101.0 % of mass 174	62.6 (98.1) 1
177	5.0 - 9.0 % of mass 176	4.5 (7.2) 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 180-295448/2	6101902.D	10/19/2019	13:21
	LCS 180-295448/4	6101904A.D	10/19/2019	14:25
	MB 180-295448/6	6101906A.D	10/19/2019	15:44
HD-COD-SW-17-0/1-0	180-97133-1	6101909.D	10/19/2019	17:02
HD-MW-6-0/1-0	180-97133-2	6101910.D	10/19/2019	17:28
HD-MW-5-0/1-0	180-97133-3	6101911.D	10/19/2019	17:54
HD-MW-111-0/1-0	180-97133-4	6101912.D	10/19/2019	18:20
HD-QC8-0/1-2	180-97133-8	6101913.D	10/19/2019	18:46
HD-MW-79-0/1-0	180-97133-5	6101921.D	10/19/2019	22:14
HD-MW-115-0/1-0 DL	180-97133-6 DL	6101922.D	10/19/2019	22:40
HD-MW-88-0/1-0	180-97133-7	6101923.D	10/19/2019	23:06

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

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1

SDG No.: _____

Lab File ID: 6102301.D BFB Injection Date: 10/23/2019

Instrument ID: CHHP6 BFB Injection Time: 09:16

Analysis Batch No.: 295765

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	27.8
75	30.0 - 60.0 % of mass 95	59.1
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.5
173	Less than 2.0 % of mass 174	0.8 (1.1) 1
174	50.0 - 120.00 % of mass 95	71.0
175	5.0 - 9.0 % of mass 174	4.8 (6.8) 1
176	95.0 - 101.0 % of mass 174	69.2 (97.5) 1
177	5.0 - 9.0 % of mass 176	3.6 (5.2) 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 180-295765/2	6102302.D	10/23/2019	09:50
	LCS 180-295765/4	6102304A.D	10/23/2019	10:55
	MB 180-295765/6	6102306A.D	10/23/2019	12:13
HD-MW-115-0/1-0	180-97133-6	6102317.D	10/23/2019	17:01

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

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1
 SDG No.: _____
 Sample No.: CCVIS 180-295448/2 Date Analyzed: 10/19/2019 13:21
 Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): 6101902.D Heated Purge: (Y/N) N
 Calibration ID: 41783

	TBA _d 9		FB		CBN _{Zd} 5		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	174060	4.43	531349	7.41	125260	10.51	
UPPER LIMIT	348120	4.93	1062698	7.91	250520	11.01	
LOWER LIMIT	87030	3.93	265675	6.91	62630	10.01	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 180-295448/4	183927	4.42	546442	7.41	128292	10.51	
MB 180-295448/6	158066	4.43	466420	7.41	114321	10.51	
180-97133-1	HD-COD-SW-17-0/1-0	140407	4.42	448371	7.41	115210	10.51
180-97133-2	HD-MW-6-0/1-0	137196	4.43	464955	7.41	114363	10.51
180-97133-3	HD-MW-5-0/1-0	132694	4.42	450813	7.41	112459	10.51
180-97133-4	HD-MW-111-0/1-0	136385	4.43	453970	7.41	108835	10.51
180-97133-8	HD-QC8-0/1-2	139880	4.43	458140	7.41	112945	10.50
180-97133-5	HD-MW-79-0/1-0	149616	4.42	423001	7.41	107929	10.51
180-97133-6 DL	HD-MW-115-0/1-0 DL	135892	4.43	444704	7.41	108062	10.51
180-97133-7	HD-MW-88-0/1-0	143802	4.42	415730	7.41	109168	10.51

TBA_d9 = TBA-d9 (IS)
 FB = Fluorobenzene (IS)
 CBN_{Zd}5 = Chlorobenzene-d5

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 TestAmerica, Pittsburgh Job No.: 180-97133-1
 SDG No.: _____
 Sample No.: CCVIS 180-295448/2 Date Analyzed: 10/19/2019 13:21
 Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): 6101902.D Heated Purge: (Y/N) N
 Calibration ID: 41783

		DCBd4					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		190909	12.86				
UPPER LIMIT		381818	13.36				
LOWER LIMIT		95455	12.36				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 180-295448/4		191195	12.85				
MB 180-295448/6		155704	12.85				
180-97133-1	HD-COD-SW-17-0/1-0	153882	12.86				
180-97133-2	HD-MW-6-0/1-0	161706	12.86				
180-97133-3	HD-MW-5-0/1-0	154348	12.85				
180-97133-4	HD-MW-111-0/1-0	163862	12.85				
180-97133-8	HD-QC8-0/1-2	159870	12.86				
180-97133-5	HD-MW-79-0/1-0	147793	12.86				
180-97133-6 DL	HD-MW-115-0/1-0 DL	158359	12.85				
180-97133-7	HD-MW-88-0/1-0	144641	12.85				

DCBd4 = 1,4-Dichlorobenzene-d4

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

Column used to flag values outside QC limits

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

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1
 SDG No.: _____
 Sample No.: CCVIS 180-295765/2 Date Analyzed: 10/23/2019 09:50
 Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): 6102302.D Heated Purge: (Y/N) N
 Calibration ID: 41783

	TBA _d 9		FB		CBN _{Zd} 5		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	184774	4.44	538429	7.41	122643	10.51	
UPPER LIMIT	369548	4.94	1076858	7.91	245286	11.01	
LOWER LIMIT	92387	3.94	269215	6.91	61322	10.01	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 180-295765/4	195216	4.44	546743	7.41	130508	10.51	
MB 180-295765/6	146720	4.44	467730	7.40	104769	10.51	
180-97133-6	HD-MW-115-0/1-0	163547	4.42	484568	7.40	109777	10.51

TBA_d9 = TBA-d9 (IS)

FB = Fluorobenzene (IS)

CBN_{Zd}5 = Chlorobenzene-d5

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 TestAmerica, Pittsburgh Job No.: 180-97133-1
 SDG No.: _____
 Sample No.: CCVIS 180-295765/2 Date Analyzed: 10/23/2019 09:50
 Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): 6102302.D Heated Purge: (Y/N) N
 Calibration ID: 41783

	DCBd4		AREA #	RT #	AREA #	RT #
	AREA #	RT #				
12/24 HOUR STD	191029	12.85				
UPPER LIMIT	382058	13.35				
LOWER LIMIT	95515	12.35				
LAB SAMPLE ID	CLIENT SAMPLE ID					
LCS 180-295765/4		194809	12.85			
MB 180-295765/6		161732	12.85			
180-97133-6	HD-MW-115-0/1-0	158983	12.86			

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 TestAmerica, Pittsburgh Job No.: 180-97133-1
 SDG No.: _____
 Client Sample ID: HD-COD-SW-17-0/1-0 Lab Sample ID: 180-97133-1
 Matrix: Water Lab File ID: 6101909.D
 Analysis Method: EPA 8260C Date Collected: 10/09/2019 08:40
 Sample wt/vol: 5 (mL) Date Analyzed: 10/19/2019 17:02
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 295448 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	ND		1.0	0.90
75-01-4	Vinyl chloride	ND		1.0	0.88
74-83-9	Bromomethane	ND		1.0	0.89
75-00-3	Chloroethane	ND		1.0	0.90
75-35-4	1,1-Dichloroethene	ND		1.0	0.55
67-64-1	Acetone	ND		5.0	3.4
75-15-0	Carbon disulfide	ND		1.0	0.88
75-09-2	Methylene Chloride	ND		1.0	0.89
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.67
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.59
75-34-3	1,1-Dichloroethane	ND		1.0	0.63
156-59-2	cis-1,2-Dichloroethene	0.99	J	1.0	0.71
74-97-5	Bromochloromethane	ND		1.0	0.63
78-93-3	2-Butanone (MEK)	ND		5.0	2.6
67-66-3	Chloroform	ND		1.0	0.60
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.60
56-23-5	Carbon tetrachloride	ND		1.0	0.88
71-43-2	Benzene	ND		1.0	0.60
107-06-2	1,2-Dichloroethane	ND		1.0	0.57
79-01-6	Trichloroethene	1.2		1.0	0.69
78-87-5	1,2-Dichloropropane	ND		1.0	0.66
75-27-4	Bromodichloromethane	ND		1.0	0.64
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.59
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	3.1
108-88-3	Toluene	ND		1.0	0.46
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.58
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.45
127-18-4	Tetrachloroethene	3.0		1.0	0.47
591-78-6	2-Hexanone	ND		5.0	3.3
124-48-1	Dibromochloromethane	ND		1.0	0.84
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.50
108-90-7	Chlorobenzene	ND		1.0	0.50
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.57
100-41-4	Ethylbenzene	ND		1.0	0.51
1330-20-7	Xylenes, Total	ND		2.0	0.89
100-42-5	Styrene	ND		1.0	0.47

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1
 SDG No.: _____
 Client Sample ID: HD-COD-SW-17-0/1-0 Lab Sample ID: 180-97133-1
 Matrix: Water Lab File ID: 6101909.D
 Analysis Method: EPA 8260C Date Collected: 10/09/2019 08:40
 Sample wt/vol: 5 (mL) Date Analyzed: 10/19/2019 17:02
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 295448 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	ND		1.0	0.98
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.60
107-13-1	Acrylonitrile	ND		20	7.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	113		70-150
2037-26-5	Toluene-d8 (Surr)	101		78-128
460-00-4	4-Bromofluorobenzene (Surr)	98		64-123
1868-53-7	Dibromofluoromethane (Surr)	100		75-147

Eurofins TestAmerica, Pittsburgh
Target Compound Quantitation Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101909.D
 Lims ID: 180-97133-B-1
 Client ID: HD-COD-SW-17-0/1-0
 Sample Type: Client
 Inject. Date: 19-Oct-2019 17:02:30 ALS Bottle#: 3 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-0029191-009
 Misc. Info.: 180-97133-b-1
 Operator ID: 433269 Instrument ID: CHHP6
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C_D ICAL
 Last Update: 22-Oct-2019 09:42:38 Calib Date: 18-Oct-2019 18:47:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101817.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX0302

First Level Reviewer: bowieh

Date: 22-Oct-2019 09:42:38

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.417	4.429	-0.012	92	140407	1000.0	
* 2 Fluorobenzene (IS)	96	7.410	7.410	0.000	99	448371	50.0	
* 3 Chlorobenzene-d5	119	10.506	10.513	-0.007	88	115210	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.855	12.855	0.000	99	153882	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.680	6.686	-0.006	92	105079	49.9	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	7.057	7.057	0.000	92	182073	56.6	
\$ 7 Toluene-d8 (Surr)	98	9.052	9.053	-0.001	94	422027	50.4	
\$ 8 4-Bromofluorobenzene (Surr	95	11.693	11.693	0.000	0	169820	49.1	
12 Chloromethane	50		1.886				ND	U
13 Vinyl chloride	62		2.008				ND	
15 Bromomethane	94		2.355				ND	U
16 Chloroethane	64		2.495				ND	
22 1,1-Dichloroethene	96		3.468				ND	
24 Acetone	43	3.565	3.584	-0.019	32	7858	6.21	a
26 Carbon disulfide	76		3.766				ND	U
31 Methylene Chloride	84		4.289				ND	U
33 Acrylonitrile	53		4.679				ND	U
34 trans-1,2-Dichloroethene	96		4.709				ND	U
35 Methyl tert-butyl ether	73	4.727	4.715	0.012	40	1474	0.2638	
37 1,1-Dichloroethane	63		5.336				ND	
43 cis-1,2-Dichloroethene	96	6.090	6.078	0.012	31	13249	4.93	
44 2-Butanone (MEK)	43		6.090				ND	U
48 Chlorobromomethane	128		6.358				ND	
50 Chloroform	83	6.497	6.510	-0.013	37	12023	2.58	
51 1,1,1-Trichloroethane	97		6.662				ND	U
53 Carbon tetrachloride	117		6.826				ND	
56 Benzene	78		7.063				ND	U
57 1,2-Dichloroethane	62		7.142				ND	U
61 Trichloroethene	130	7.787	7.793	-0.006	91	17151	5.95	
64 1,2-Dichloropropane	63		8.061				ND	U
68 Dichlorobromomethane	83		8.347				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
71 cis-1,3-Dichloropropene	75		8.797				ND	U
72 4-Methyl-2-pentanone (MIBK)	43		8.955				ND	U
73 Toluene	91		9.126				ND	U
74 trans-1,3-Dichloropropene	75		9.369				ND	U
76 1,1,2-Trichloroethane	97		9.570				ND	U
77 Tetrachloroethene	164	9.630	9.631	-0.001	89	32196	14.8	
79 2-Hexanone	43		9.789				ND	U
81 Chlorodibromomethane	129		9.935				ND	U
82 Ethylene Dibromide	107		10.044				ND	U
84 Chlorobenzene	112		10.537				ND	U
87 Ethylbenzene	106		10.634				ND	U
86 1,1,1,2-Tetrachloroethane	131		10.634				ND	U
88 m-Xylene & p-Xylene	106		10.762				ND	U
89 o-Xylene	106		11.145				ND	U
90 Styrene	104		11.170				ND	U
91 Bromoform	173		11.352				ND	
96 1,1,2,2-Tetrachloroethane	83		11.833				ND	
S 131 Xylenes, Total	106		1.000				ND	

QC Flag Legend

Review Flags

U - Marked Undetected

a - User Assigned ID

Reagents:

voaWI/SHP5_00014

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101909.D

Injection Date: 19-Oct-2019 17:02:30

Instrument ID: CHHP6

Operator ID: 433269

Lims ID: 180-97133-B-1

Lab Sample ID: 180-97133-1

Worklist Smp#: 9

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

Purge Vol: 5.000 mL

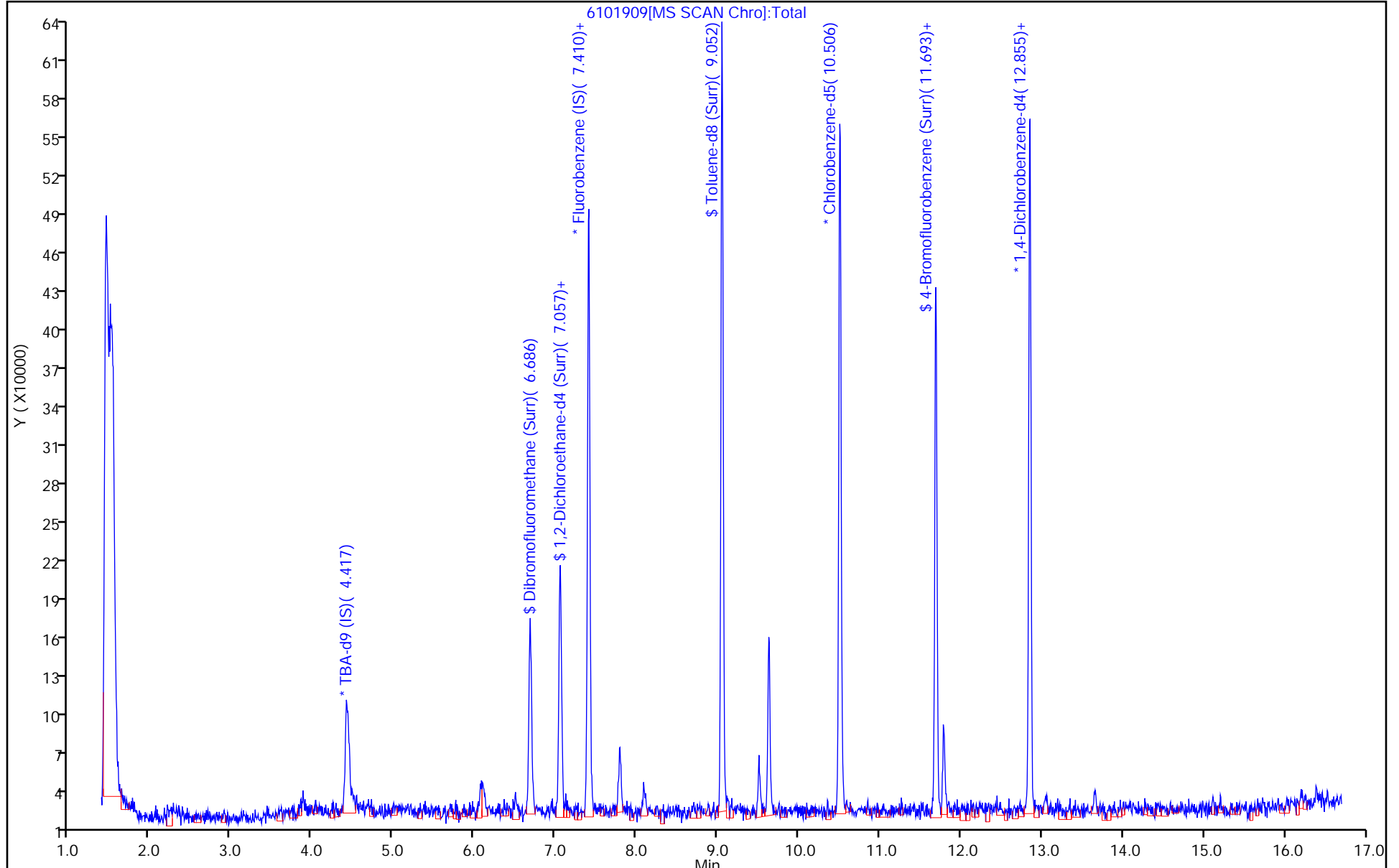
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C_D ICAL

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Pittsburgh
Recovery Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101909.D
 Lims ID: 180-97133-B-1
 Client ID: HD-COD-SW-17-0/1-0
 Sample Type: Client
 Inject. Date: 19-Oct-2019 17:02:30 ALS Bottle#: 3 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-0029191-009
 Misc. Info.: 180-97133-b-1
 Operator ID: 433269 Instrument ID: CHHP6
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C_D ICAL
 Last Update: 22-Oct-2019 09:42:38 Calib Date: 18-Oct-2019 18:47:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101817.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX0302

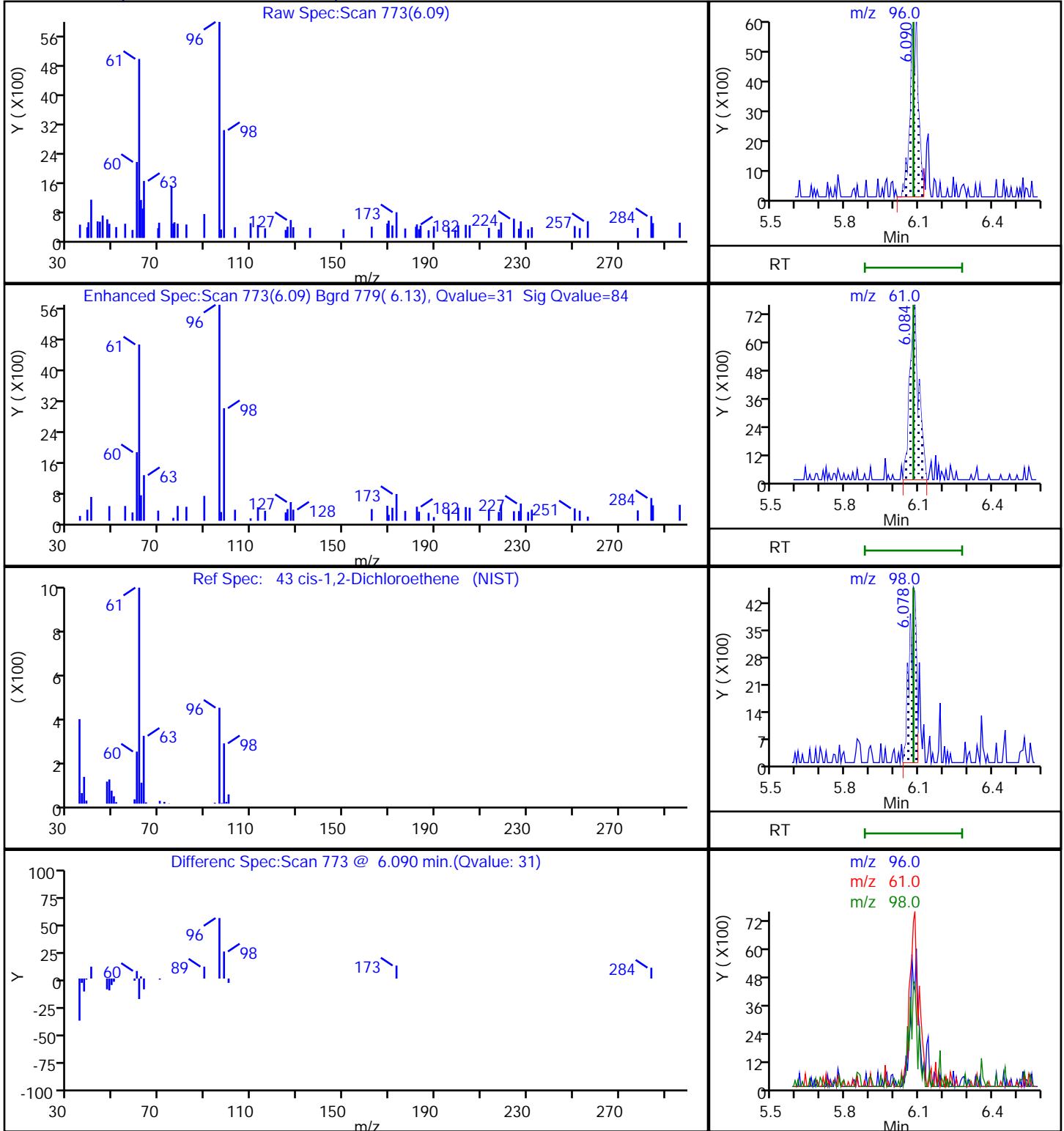
First Level Reviewer: bowieh Date: 22-Oct-2019 09:42:38

Compound	Amount Added	Amount Recovered	% Rec.
\$ 5 Dibromofluoromethane (Surr)	50.0	49.9	99.77
\$ 6 1,2-Dichloroethane-d4 (Surr)	50.0	56.6	113.11
\$ 7 Toluene-d8 (Surr)	50.0	50.4	100.72
\$ 8 4-Bromofluorobenzene (Surr)	50.0	49.1	98.16

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101909.D
Injection Date: 19-Oct-2019 17:02:30 Instrument ID: CHHP6
Lims ID: 180-97133-B-1 Lab Sample ID: 180-97133-1
Client ID: HD-COD-SW-17-0/1-0
Operator ID: 433269 ALS Bottle#: 3 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

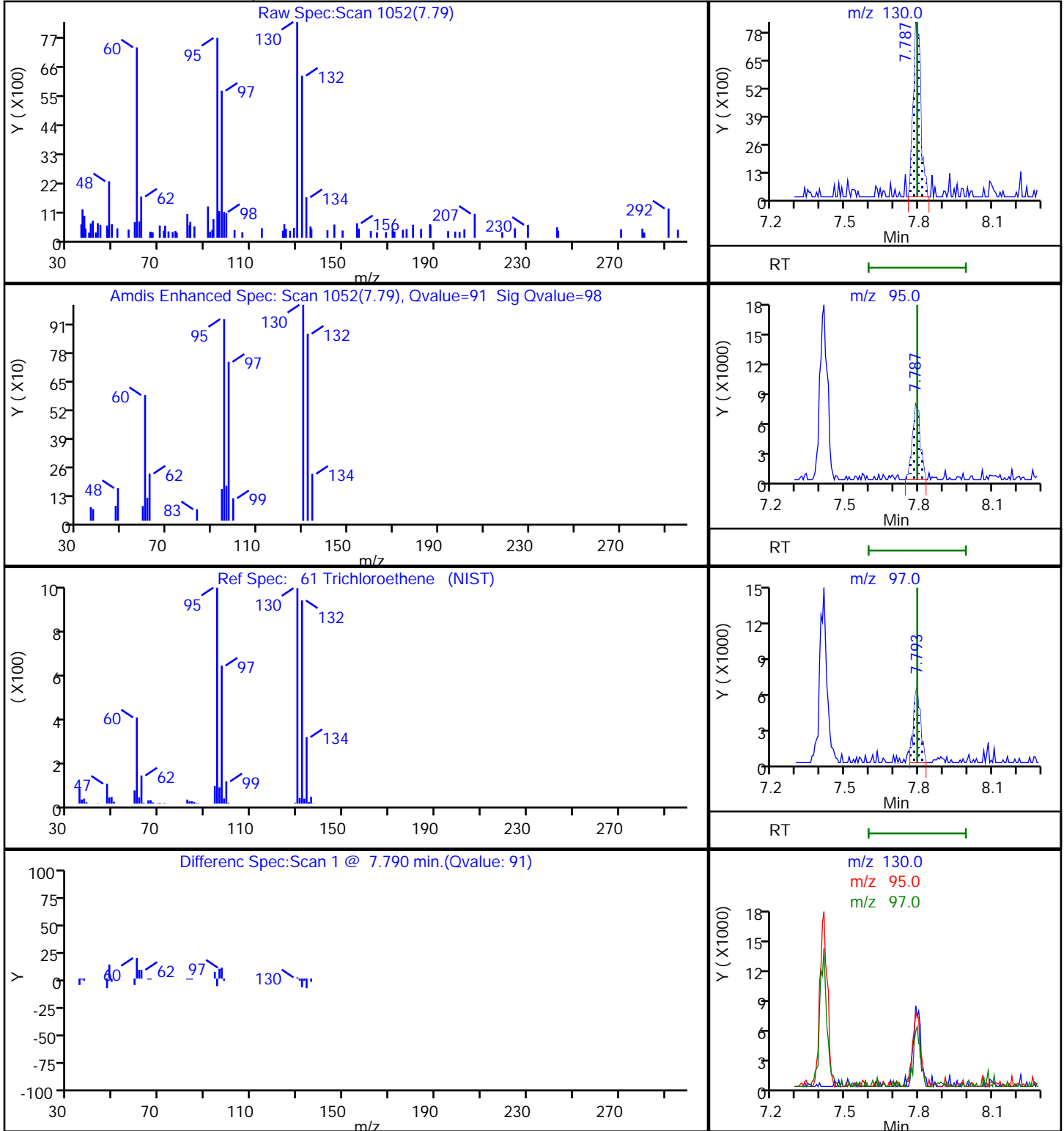
43 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101909.D
Injection Date: 19-Oct-2019 17:02:30 Instrument ID: CHHP6
Lims ID: 180-97133-B-1 Lab Sample ID: 180-97133-1
Client ID: HD-COD-SW-17-0/1-0
Operator ID: 433269 ALS Bottle#: 3 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

61 Trichloroethene, CAS: 79-01-6



Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101909.D

Injection Date: 19-Oct-2019 17:02:30

Instrument ID: CHHP6

Lims ID: 180-97133-B-1

Lab Sample ID: 180-97133-1

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

Operator ID: 433269

ALS Bottle#: 3

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

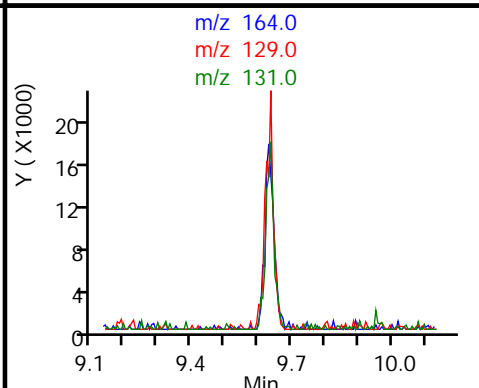
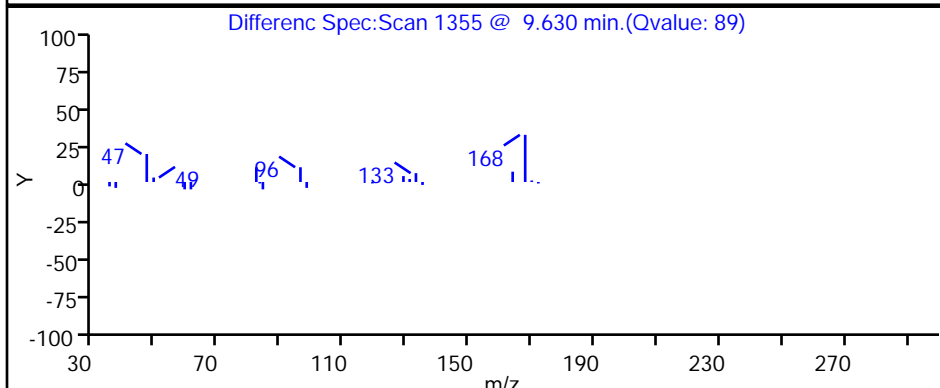
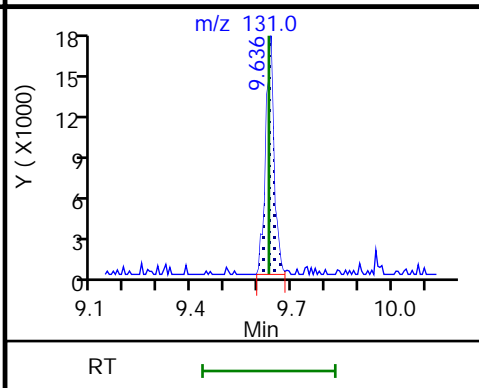
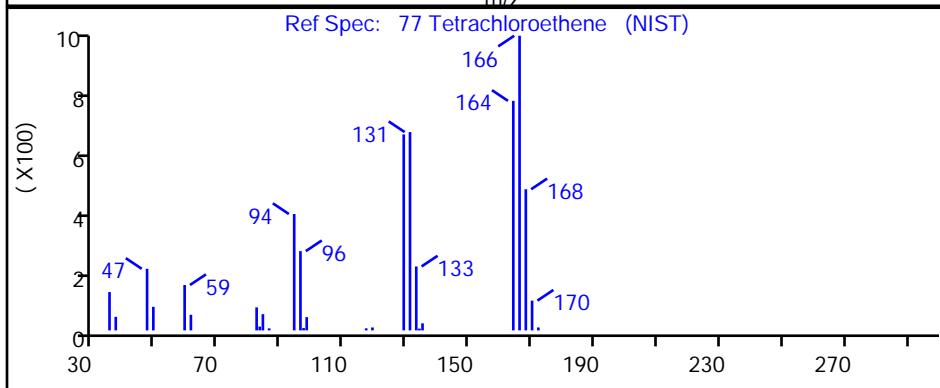
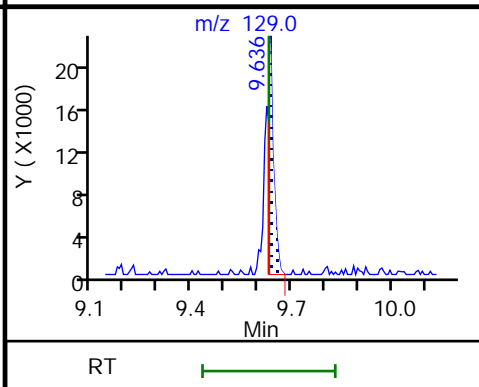
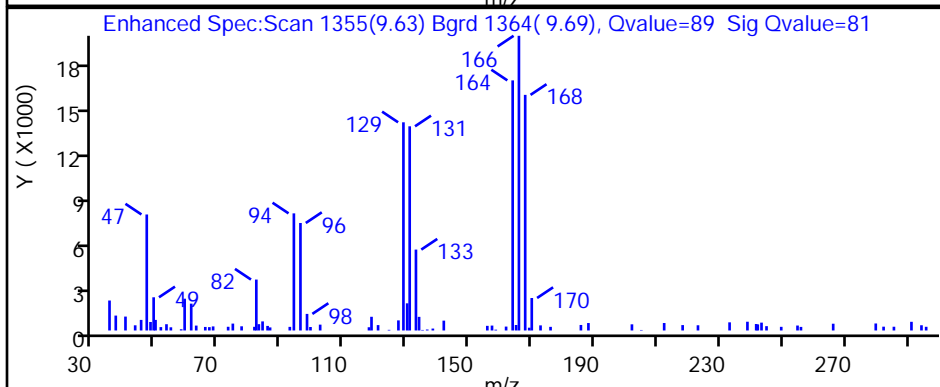
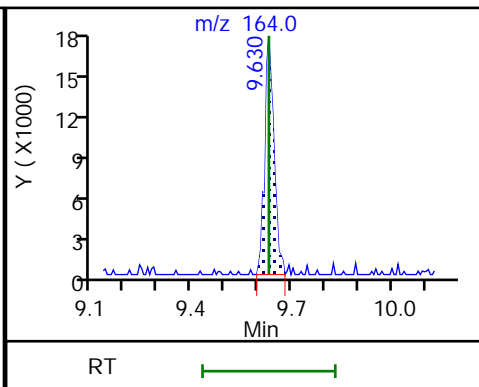
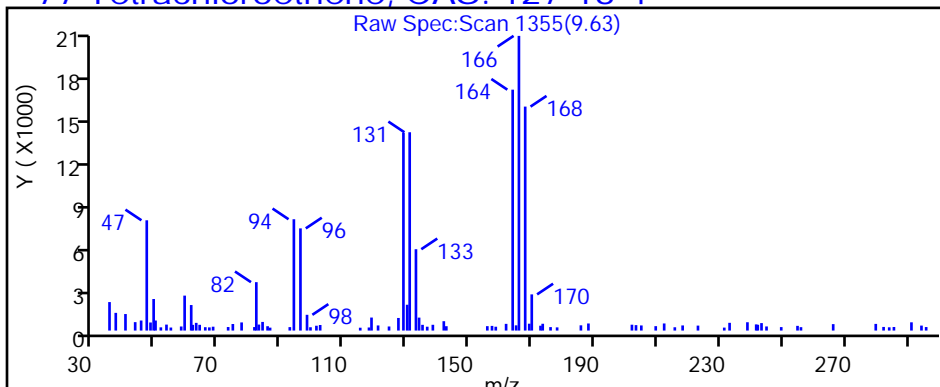
Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C_D ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

77 Tetrachloroethene, CAS: 127-18-4

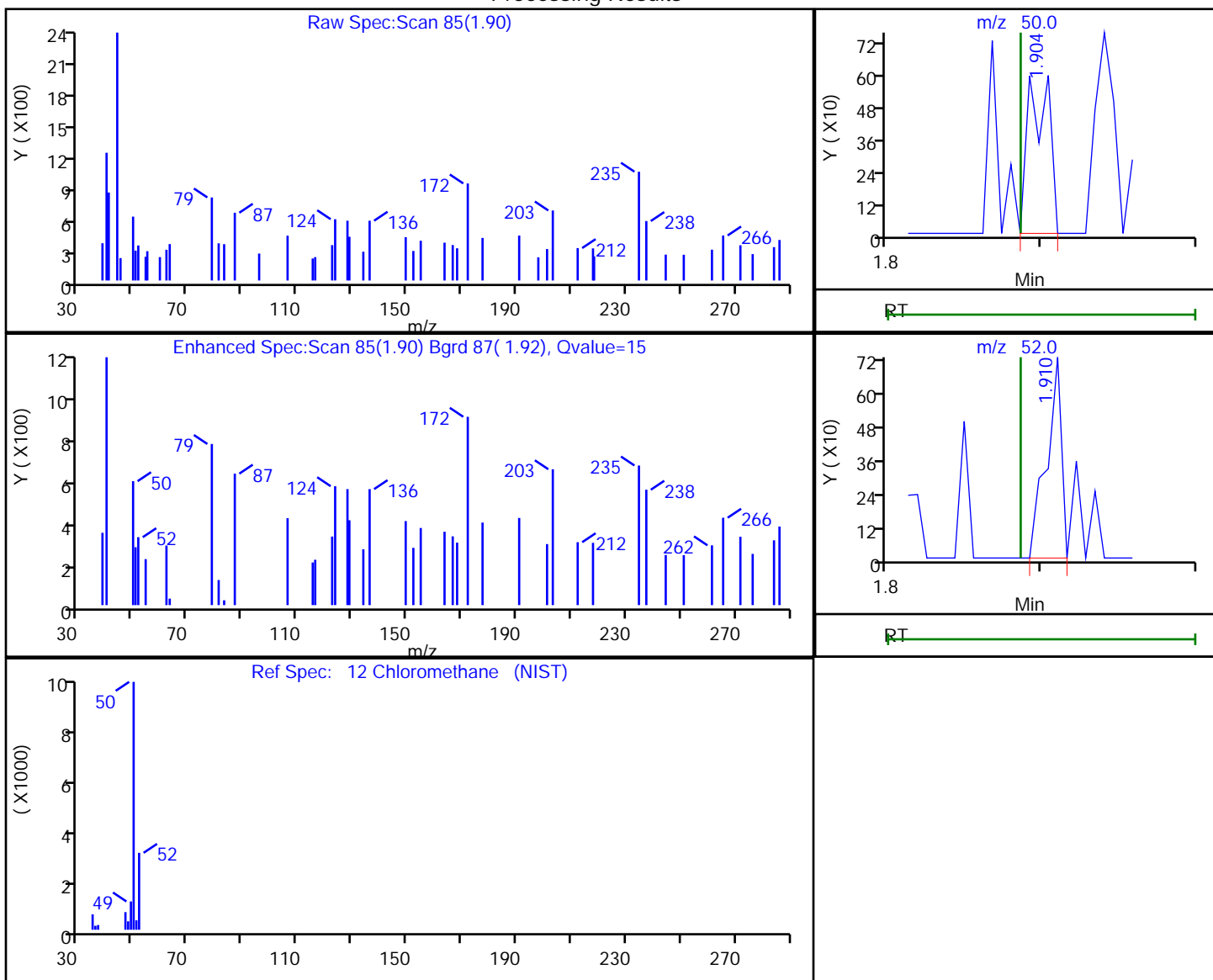


Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101909.D
 Injection Date: 19-Oct-2019 17:02:30 Instrument ID: CHHP6
 Lims ID: 180-97133-B-1 Lab Sample ID: 180-97133-1
 Client ID: HD-COD-SW-17-0/1-0
 Operator ID: 433269 ALS Bottle#: 3 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

12 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
1.90	50.00	556	0.146717
1.91	52.00	491	

Reviewer: bowieh, 22-Oct-2019 09:41:24

Audit Action: Marked Compound Undetected

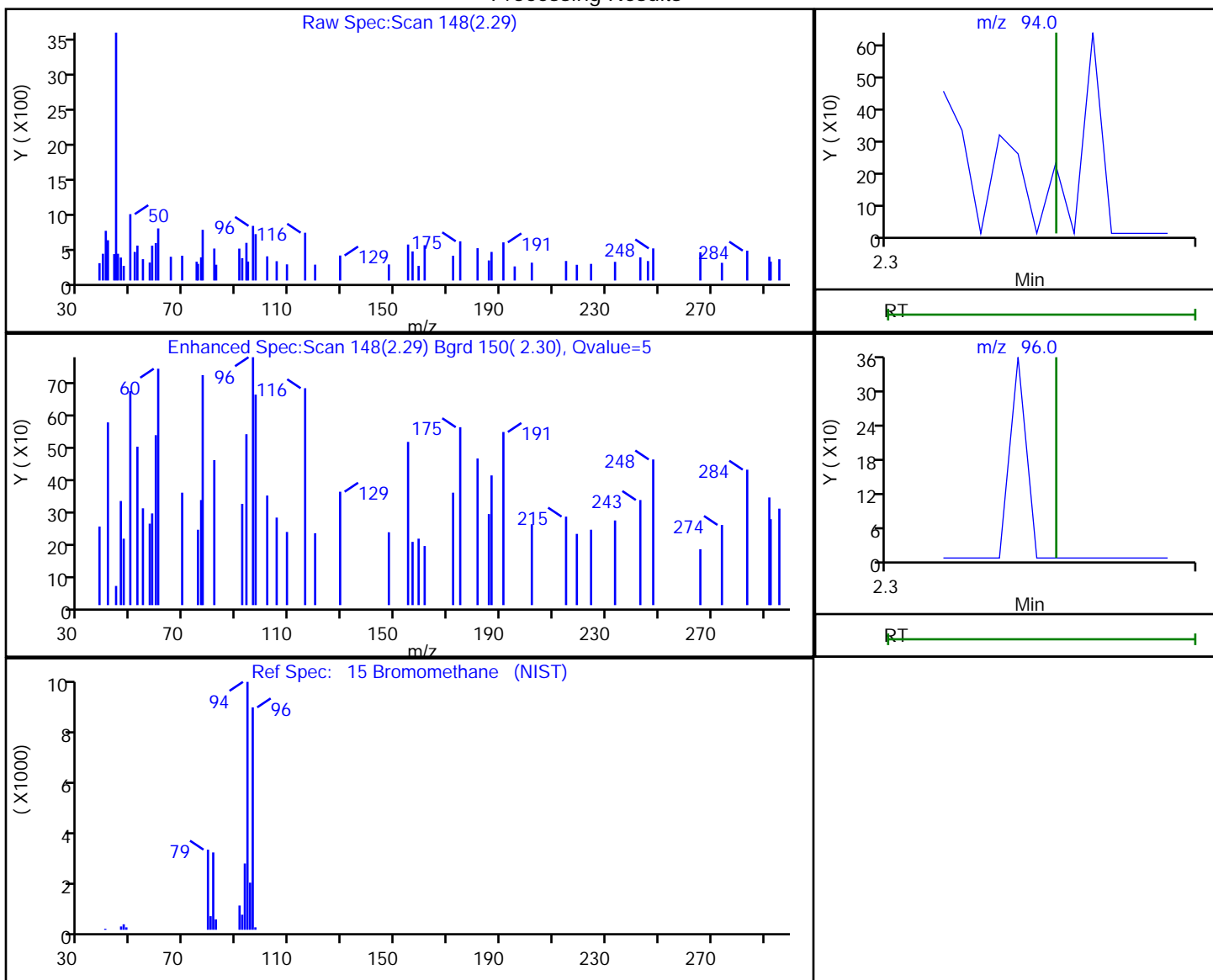
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101909.D
 Injection Date: 19-Oct-2019 17:02:30 Instrument ID: CHHP6
 Lims ID: 180-97133-B-1 Lab Sample ID: 180-97133-1
 Client ID: HD-COD-SW-17-0/1-0
 Operator ID: 433269 ALS Bottle#: 3 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

15 Bromomethane, CAS: 74-83-9

Processing Results



RT	Mass	Response	Amount
2.29	94.00	98	0.072198
2.29	96.00	283	

Reviewer: bowieh, 22-Oct-2019 09:41:26

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

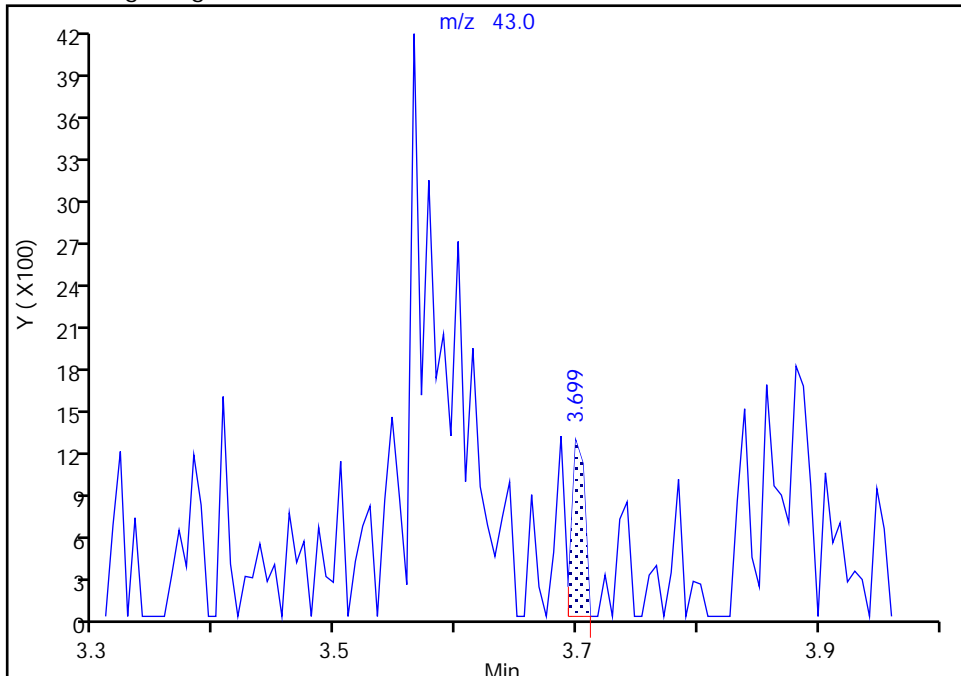
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Injection Date: 19-Oct-2019 17:02:30 Instrument ID: CHHP6
Lims ID: 180-97133-B-1 Lab Sample ID: 180-97133-1
Client ID: HD-COD-SW-17-0/1-0
Operator ID: 433269 ALS Bottle#: 3 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

24 Acetone, CAS: 67-64-1

Signal: 1

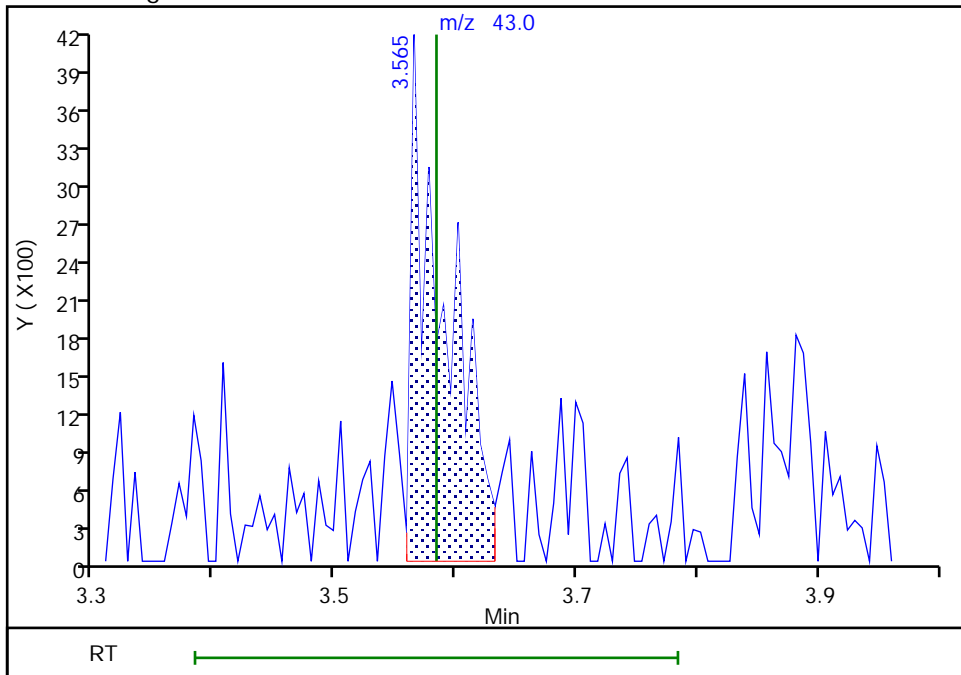
RT: 3.70
Area: 928
Amount: 0.733399
Amount Units: ng

Processing Integration Results



RT: 3.57
Area: 7858
Amount: 6.210181
Amount Units: ng

Manual Integration Results

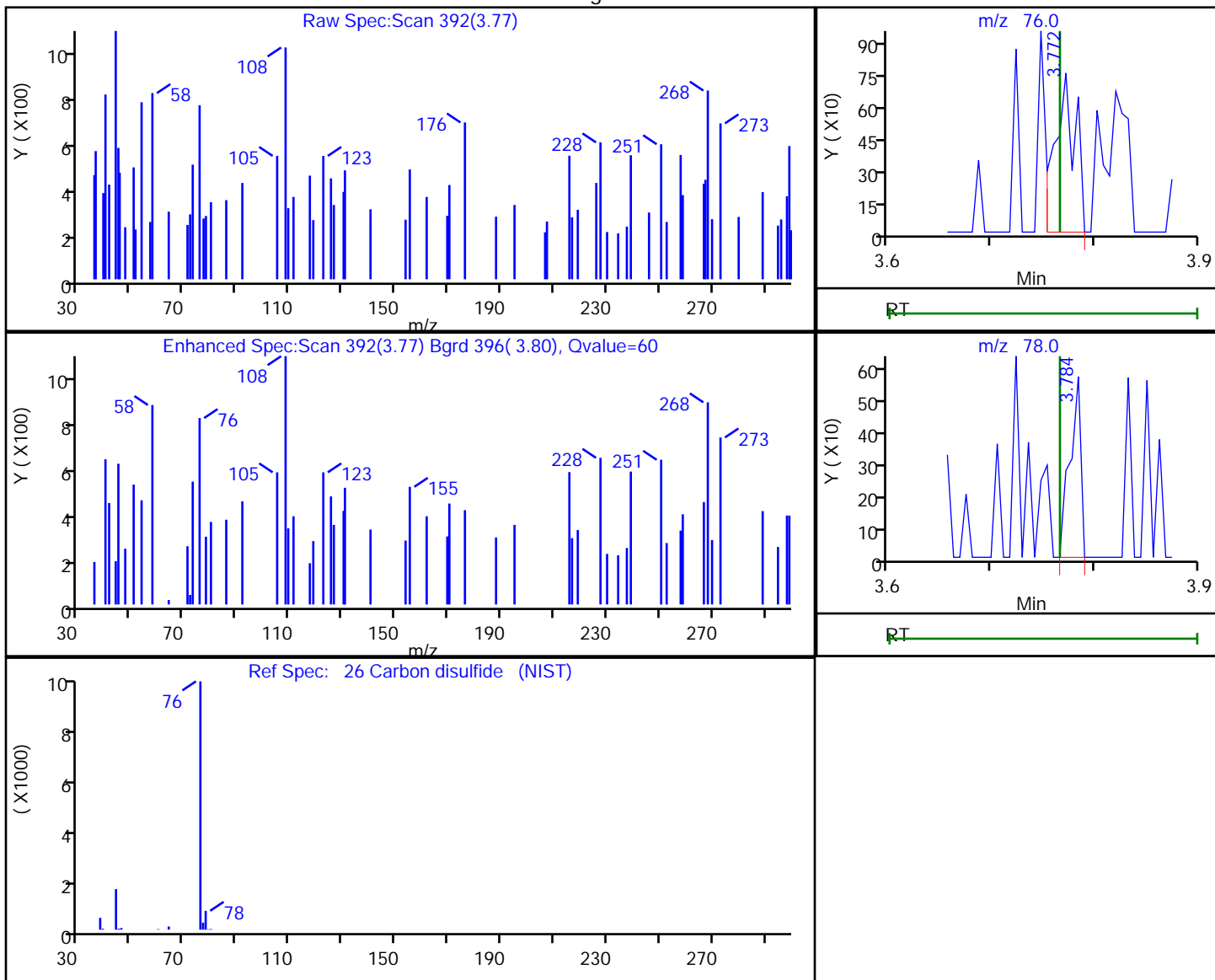


Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101909.D
Injection Date: 19-Oct-2019 17:02:30 Instrument ID: CHHP6
Lims ID: 180-97133-B-1 Lab Sample ID: 180-97133-1
Client ID: HD-COD-SW-17-0/1-0
Operator ID: 433269 ALS Bottle#: 3 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

26 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
3.77	76.00	1046	0.179581
3.78	78.00	425	

Reviewer: bowieh, 22-Oct-2019 09:41:54

Audit Action: Marked Compound Undetected

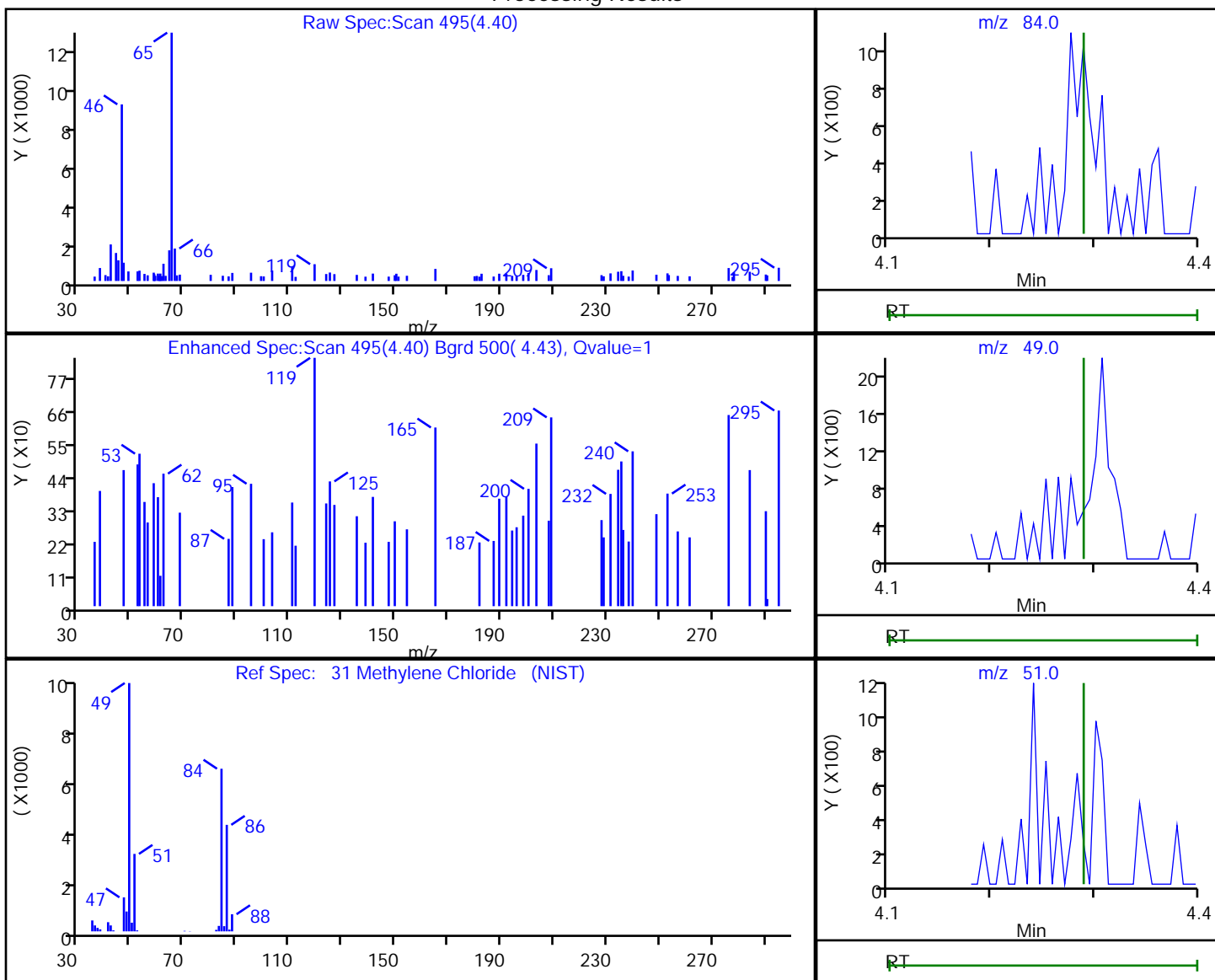
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101909.D
 Injection Date: 19-Oct-2019 17:02:30 Instrument ID: CHHP6
 Lims ID: 180-97133-B-1 Lab Sample ID: 180-97133-1
 Client ID: HD-COD-SW-17-0/1-0
 Operator ID: 433269 ALS Bottle#: 3 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

31 Methylene Chloride, CAS: 75-09-2

Processing Results



RT	Mass	Response	Amount
4.40	84.00	456	-2.803091
4.40	49.00	839	
4.41	51.00	322	

Reviewer: bowieh, 22-Oct-2019 09:41:56

Audit Action: Marked Compound Undetected

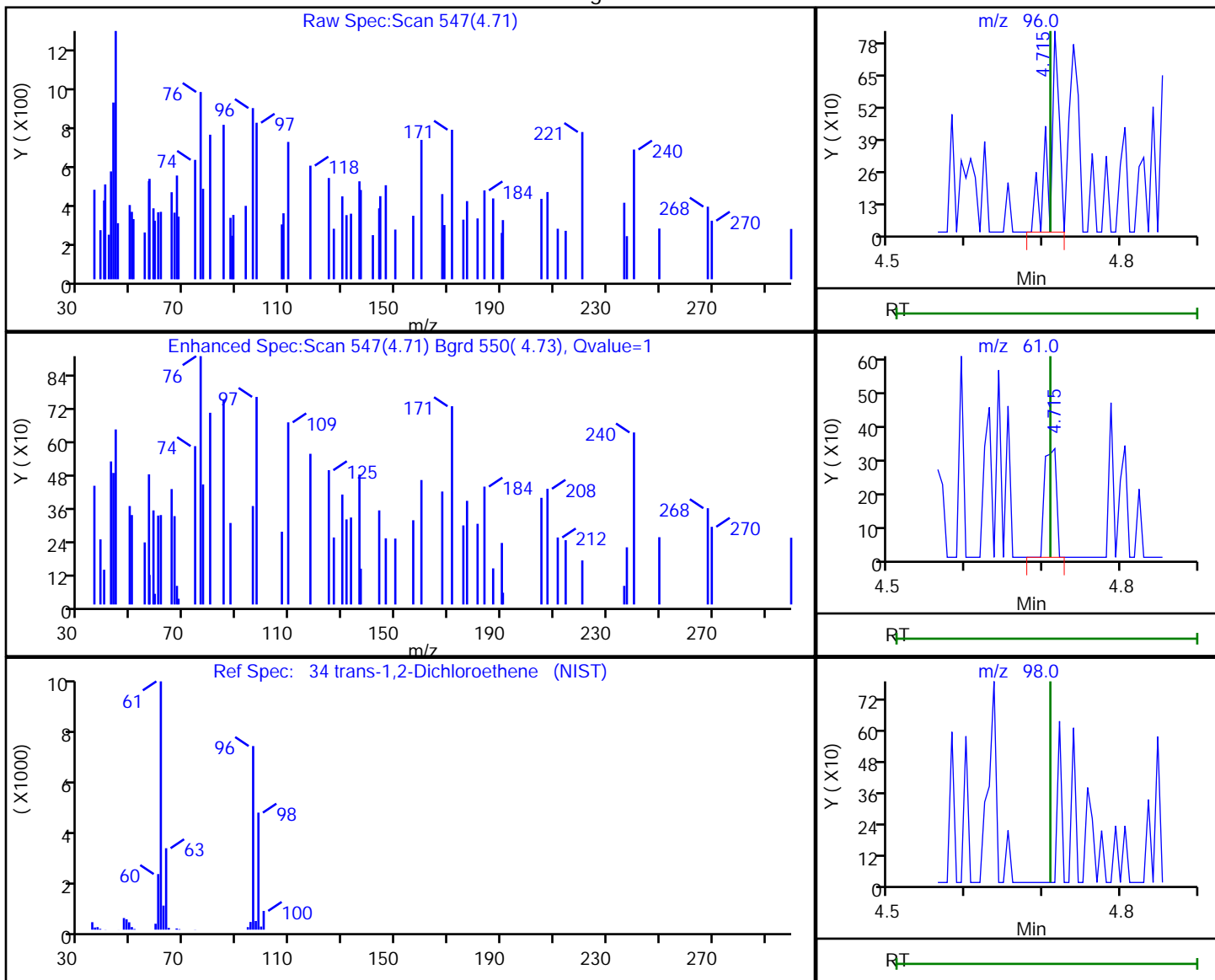
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101909.D
Injection Date: 19-Oct-2019 17:02:30 Instrument ID: CHHP6
Lims ID: 180-97133-B-1 Lab Sample ID: 180-97133-1
Client ID: HD-COD-SW-17-0/1-0
Operator ID: 433269 ALS Bottle#: 3 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

34 trans-1,2-Dichloroethene, CAS: 156-60-5

Processing Results



RT	Mass	Response	Amount
4.71	96.00	721	0.278948
4.71	61.00	344	
4.71	98.00	0	

Reviewer: bowieh, 22-Oct-2019 09:41:58

Audit Action: Marked Compound Undetected

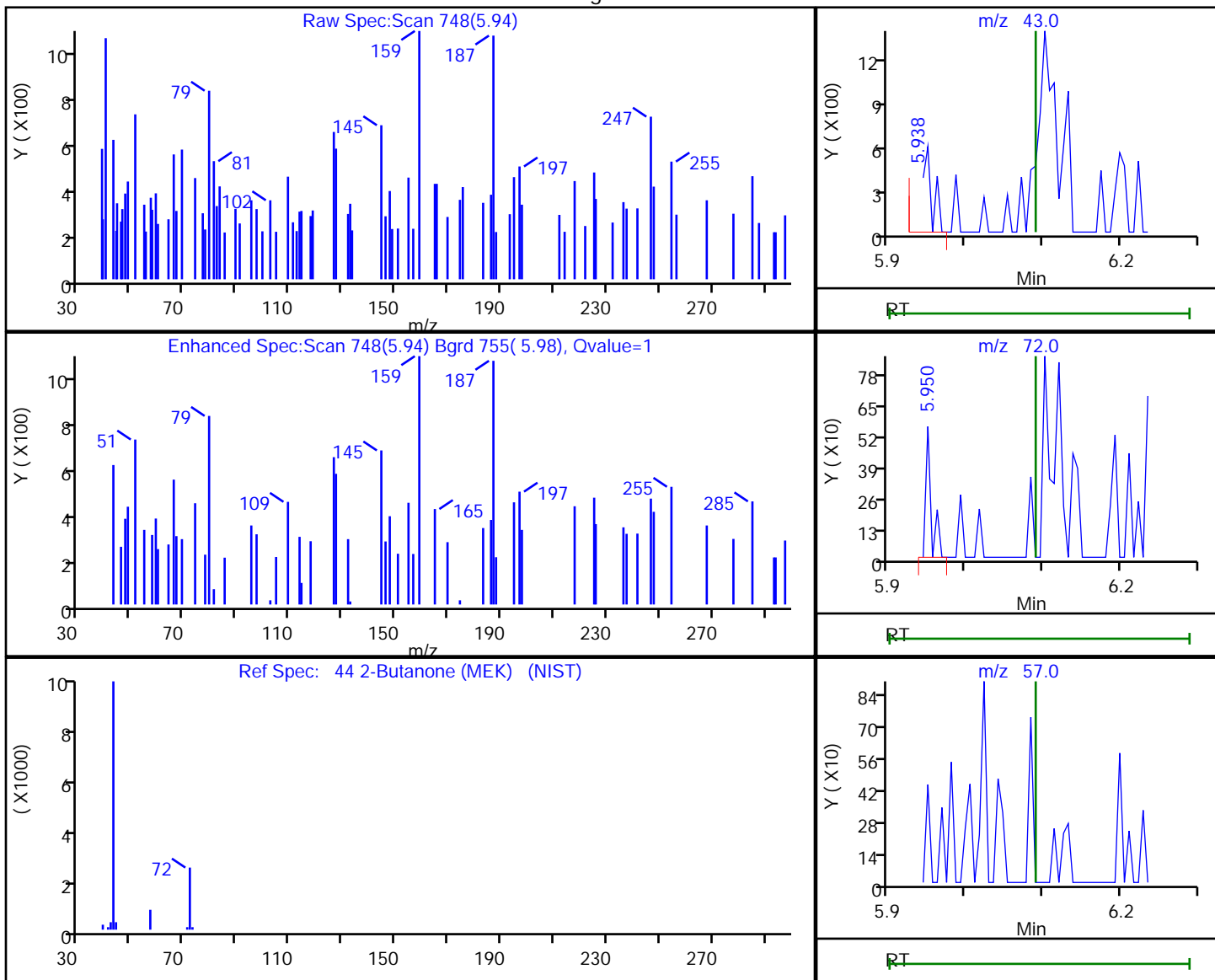
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101909.D
Injection Date: 19-Oct-2019 17:02:30 Instrument ID: CHHP6
Lims ID: 180-97133-B-1 Lab Sample ID: 180-97133-1
Client ID: HD-COD-SW-17-0/1-0
Operator ID: 433269 ALS Bottle#: 3 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

44 2-Butanone (MEK), CAS: 78-93-3

Processing Results



RT	Mass	Response	Amount
5.94	43.00	709	0.559254
5.95	72.00	276	
6.09	57.00	0	

Reviewer: bowieh, 22-Oct-2019 09:42:05

Audit Action: Marked Compound Undetected

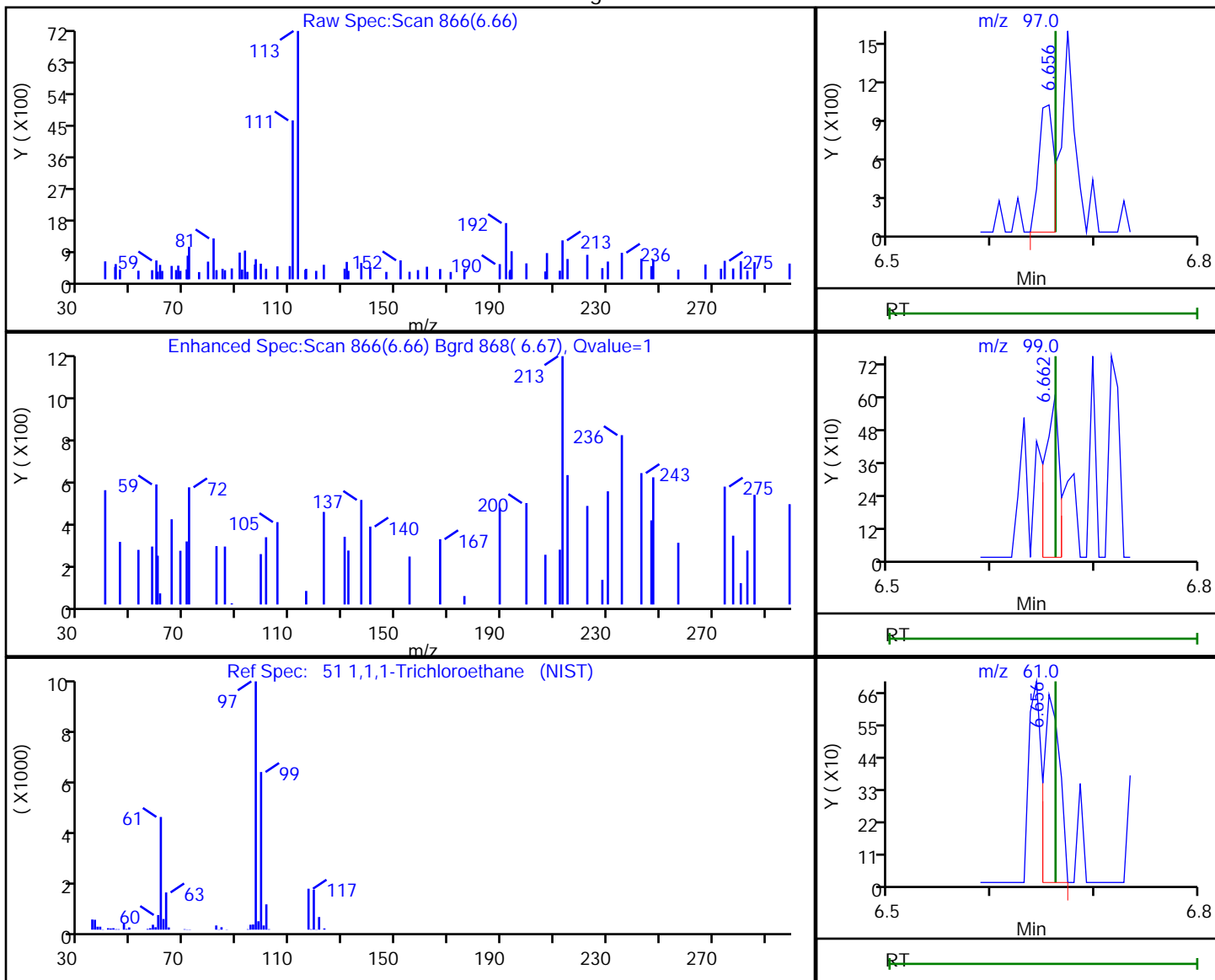
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Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101909.D
Injection Date: 19-Oct-2019 17:02:30 Instrument ID: CHHP6
Lims ID: 180-97133-B-1 Lab Sample ID: 180-97133-1
Client ID: HD-COD-SW-17-0/1-0
Operator ID: 433269 ALS Bottle#: 3 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

51 1,1,1-Trichloroethane, CAS: 71-55-6

Processing Results



RT	Mass	Response	Amount
6.66	97.00	1046	0.264686
6.66	99.00	590	
6.66	61.00	704	

Reviewer: bowieh, 22-Oct-2019 09:42:08

Audit Action: Marked Compound Undetected

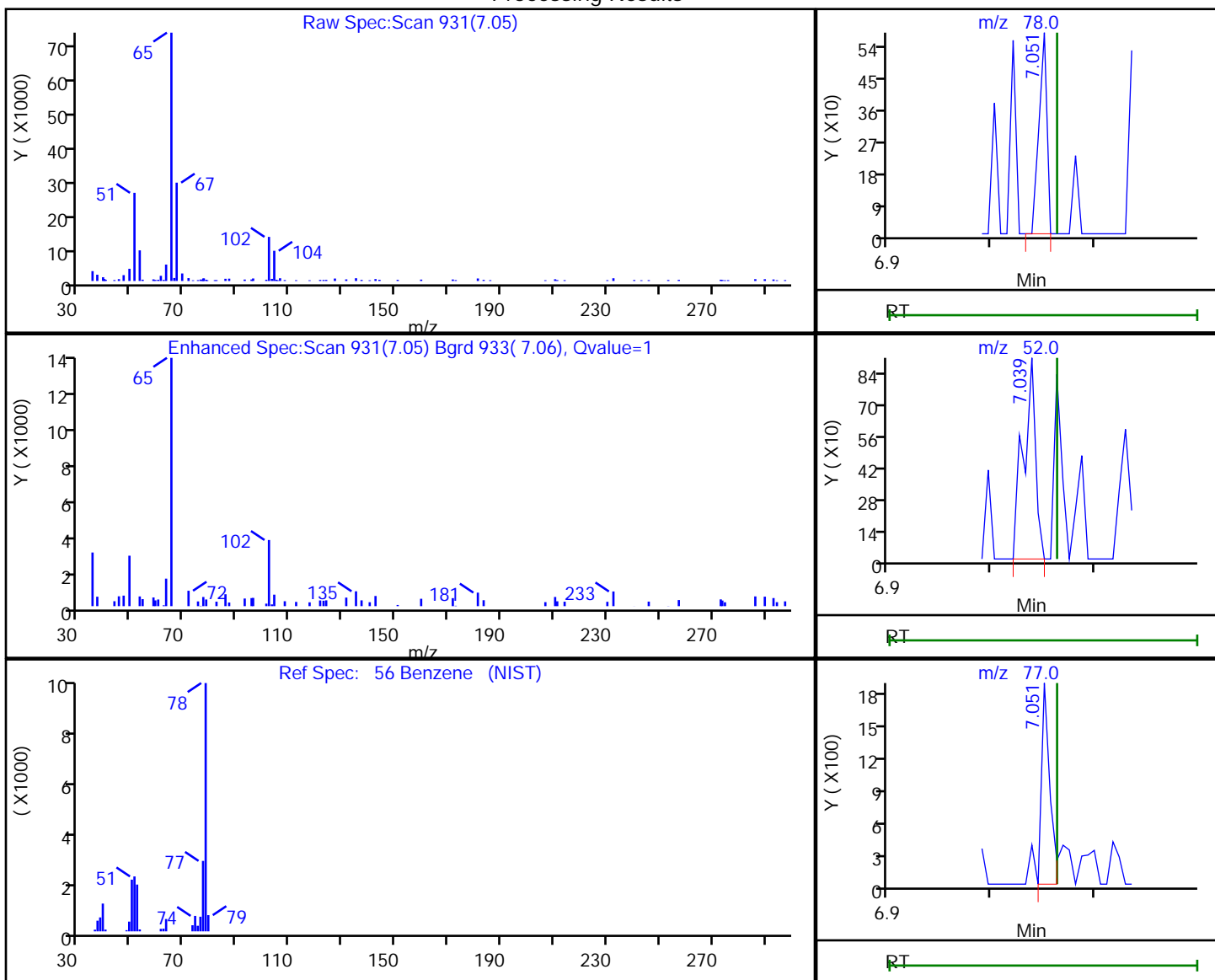
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101909.D
 Injection Date: 19-Oct-2019 17:02:30 Instrument ID: CHHP6
 Lims ID: 180-97133-B-1 Lab Sample ID: 180-97133-1
 Client ID: HD-COD-SW-17-0/1-0
 Operator ID: 433269 ALS Bottle#: 3 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

56 Benzene, CAS: 71-43-2

Processing Results



RT	Mass	Response	Amount
7.05	78.00	310	0.033254
7.04	52.00	752	
7.05	77.00	1027	

Reviewer: bowieh, 22-Oct-2019 09:42:10

Audit Action: Marked Compound Undetected

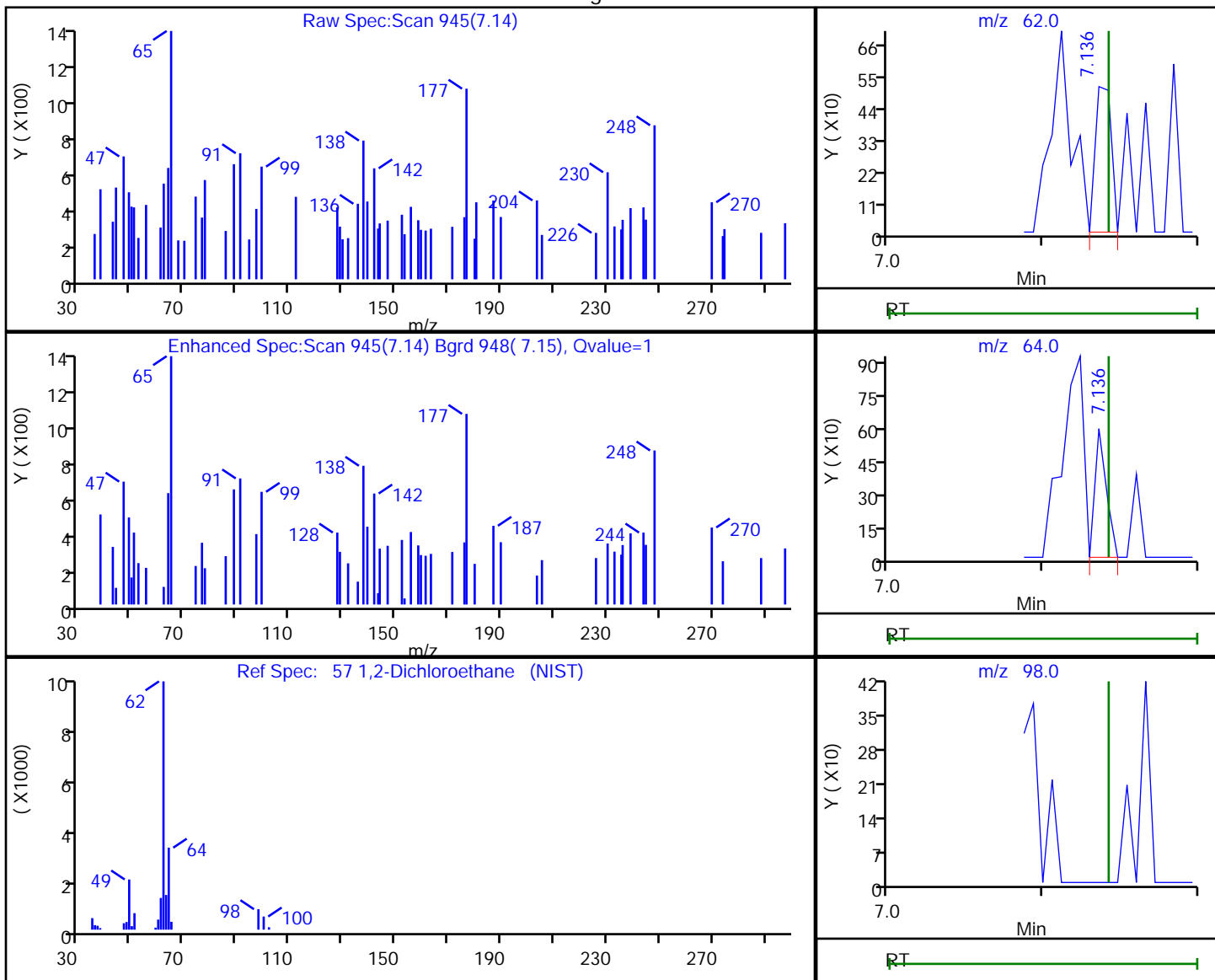
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101909.D
 Injection Date: 19-Oct-2019 17:02:30 Instrument ID: CHHP6
 Lims ID: 180-97133-B-1 Lab Sample ID: 180-97133-1
 Client ID: HD-COD-SW-17-0/1-0
 Operator ID: 433269 ALS Bottle#: 3 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

57 1,2-Dichloroethane, CAS: 107-06-2

Processing Results



RT	Mass	Response	Amount
7.14	62.00	365	0.086413
7.14	64.00	305	
7.14	98.00	0	

Reviewer: bowieh, 22-Oct-2019 09:42:11

Audit Action: Marked Compound Undetected

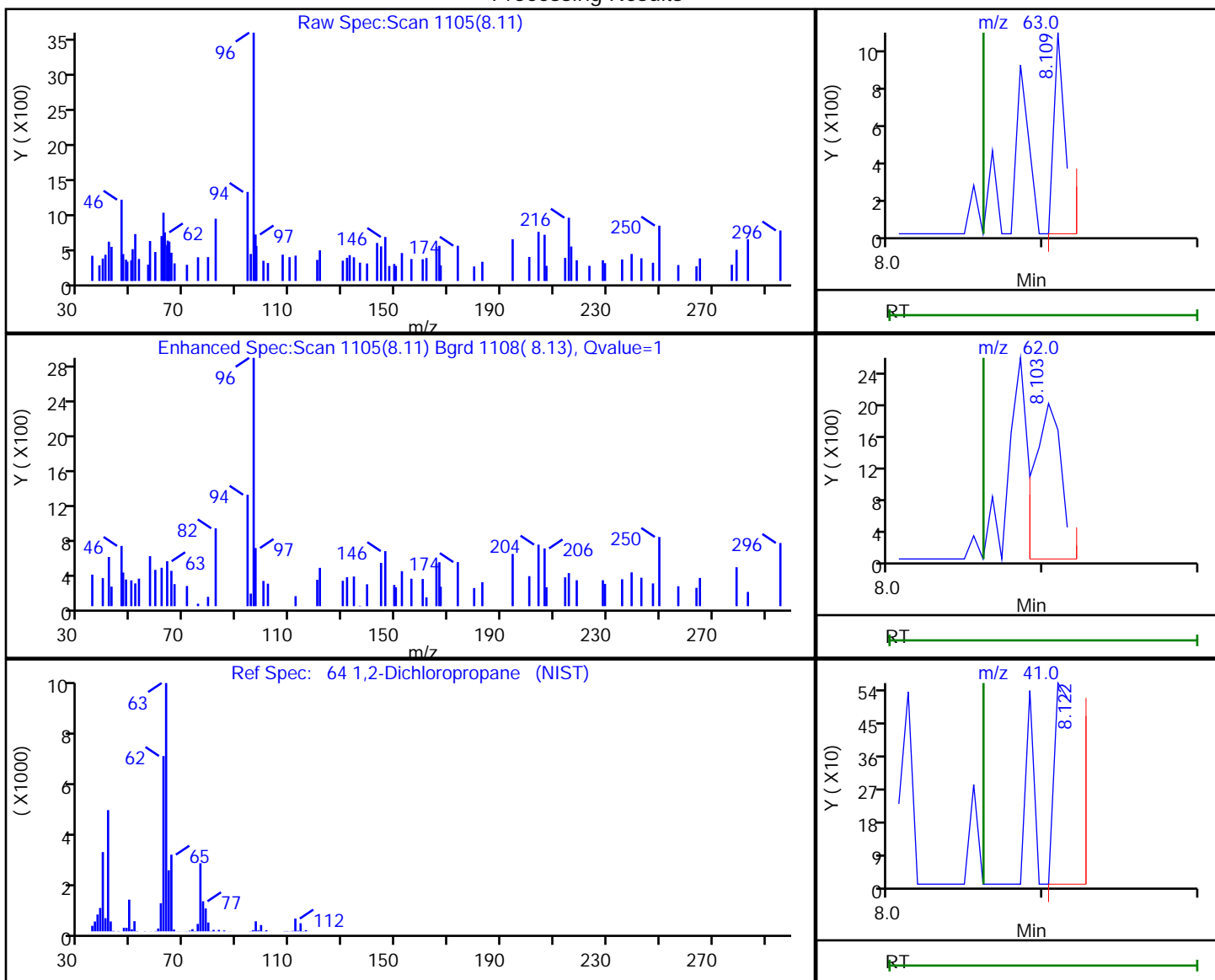
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101909.D
 Injection Date: 19-Oct-2019 17:02:30 Instrument ID: CHHP6
 Lims ID: 180-97133-B-1 Lab Sample ID: 180-97133-1
 Client ID: HD-COD-SW-17-0/1-0
 Operator ID: 433269 ALS Bottle#: 3 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

64 1,2-Dichloropropane, CAS: 78-87-5

Processing Results



RT	Mass	Response	Amount
8.11	63.00	522	0.234639
8.10	62.00	2383	
8.12	41.00	654	

Reviewer: bowieh, 22-Oct-2019 09:42:13

Audit Action: Marked Compound Undetected

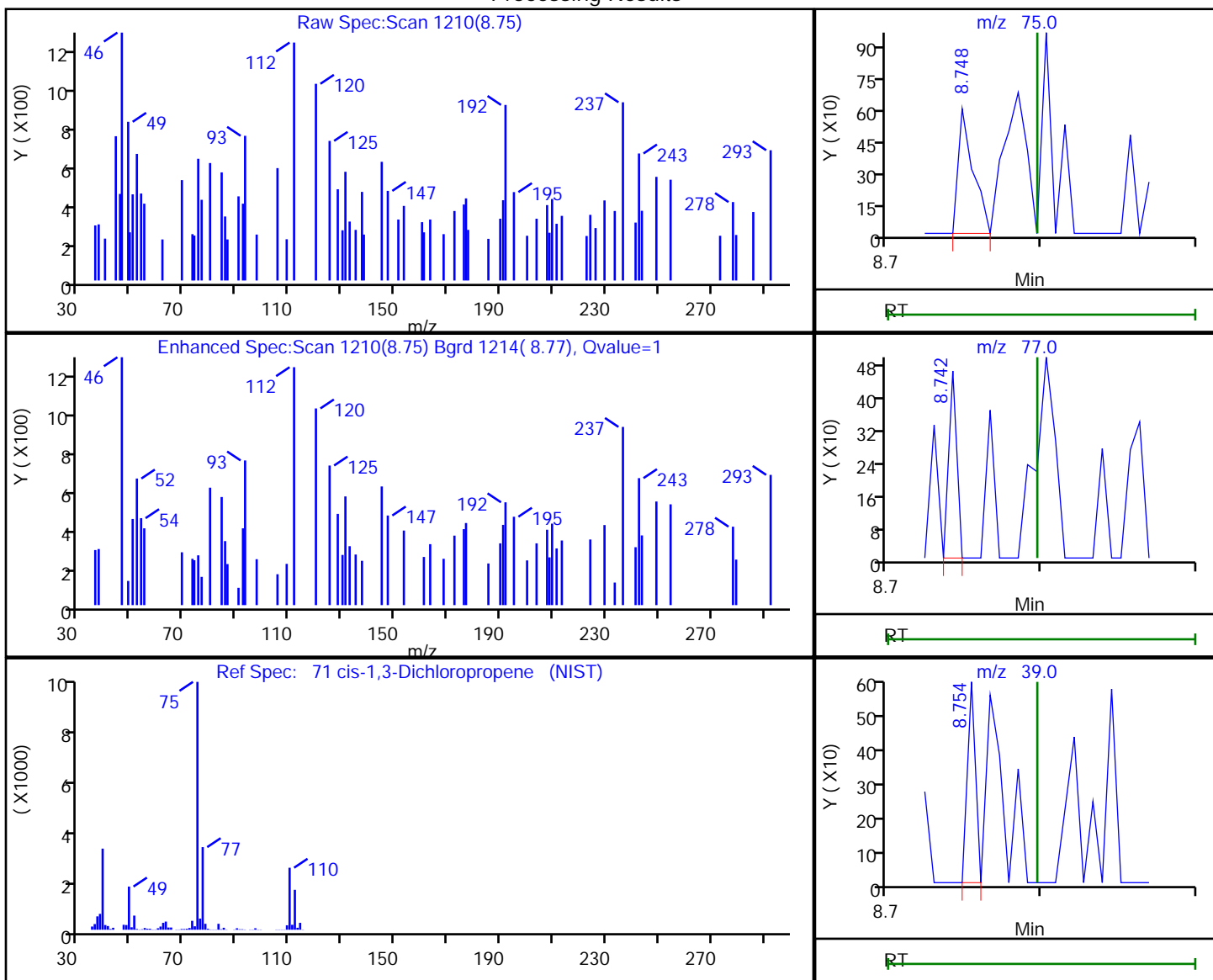
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101909.D
Injection Date: 19-Oct-2019 17:02:30 Instrument ID: CHHP6
Lims ID: 180-97133-B-1 Lab Sample ID: 180-97133-1
Client ID: HD-COD-SW-17-0/1-0
Operator ID: 433269 ALS Bottle#: 3 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

71 cis-1,3-Dichloropropene, CAS: 10061-01-5

Processing Results



RT	Mass	Response	Amount
8.75	75.00	406	0.139840
8.74	77.00	169	
8.75	39.00	216	

Reviewer: bowieh, 22-Oct-2019 09:42:14

Audit Action: Marked Compound Undetected

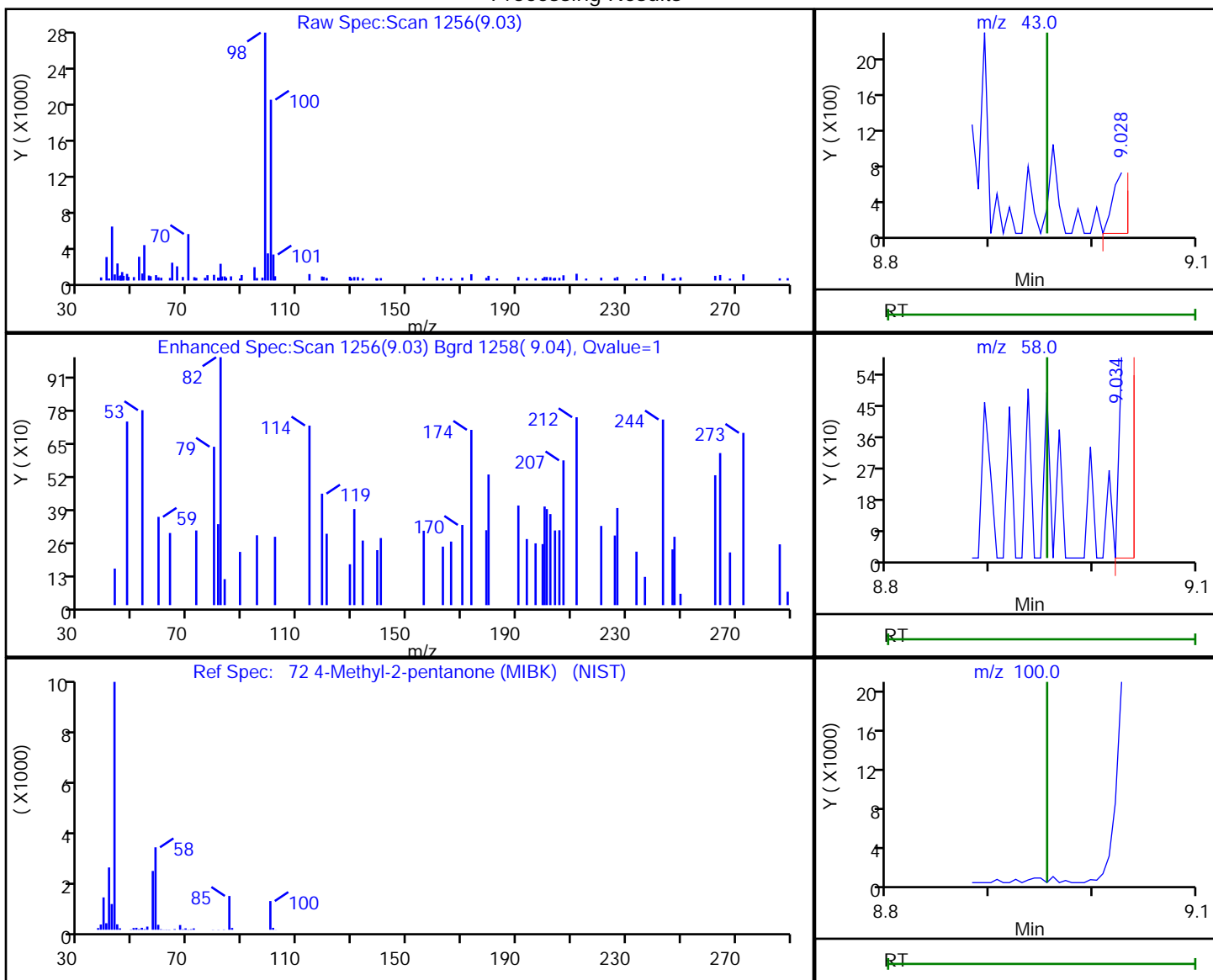
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101909.D
 Injection Date: 19-Oct-2019 17:02:30 Instrument ID: CHHP6
 Lims ID: 180-97133-B-1 Lab Sample ID: 180-97133-1
 Client ID: HD-COD-SW-17-0/1-0
 Operator ID: 433269 ALS Bottle#: 3 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

72 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
9.03	43.00	513	0.262686
9.03	58.00	784	
8.96	100.00	0	

Reviewer: bowieh, 22-Oct-2019 09:42:15

Audit Action: Marked Compound Undetected

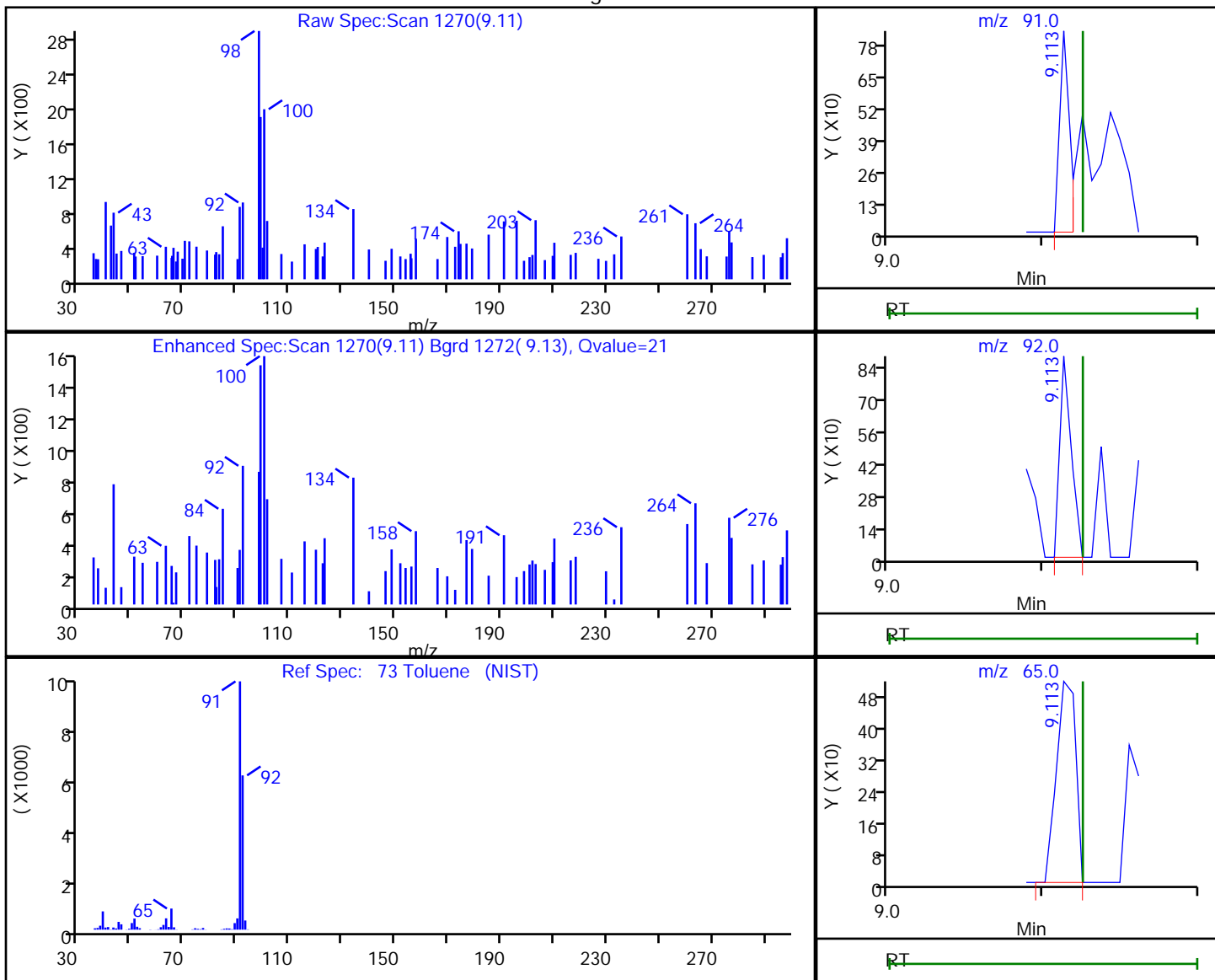
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101909.D
Injection Date: 19-Oct-2019 17:02:30 Instrument ID: CHHP6
Lims ID: 180-97133-B-1 Lab Sample ID: 180-97133-1
Client ID: HD-COD-SW-17-0/1-0
Operator ID: 433269 ALS Bottle#: 3 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

73 Toluene, CAS: 108-88-3

Processing Results



RT	Mass	Response	Amount
9.11	91.00	383	0.036955
9.11	92.00	459	
9.11	65.00	447	

Reviewer: bowieh, 22-Oct-2019 09:42:17

Audit Action: Marked Compound Undetected

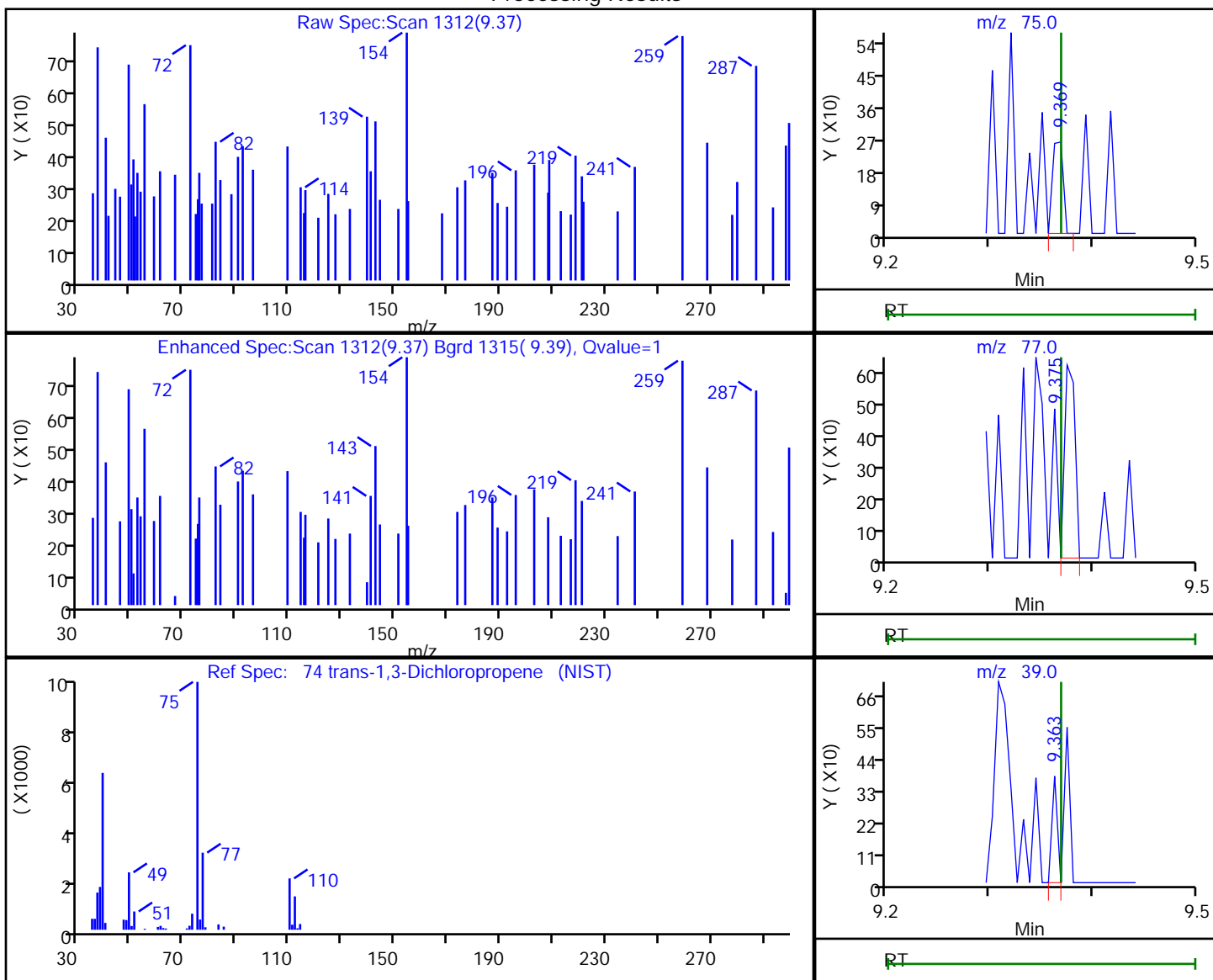
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101909.D
Injection Date: 19-Oct-2019 17:02:30 Instrument ID: CHHP6
Lims ID: 180-97133-B-1 Lab Sample ID: 180-97133-1
Client ID: HD-COD-SW-17-0/1-0
Operator ID: 433269 ALS Bottle#: 3 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

74 trans-1,3-Dichloropropene, CAS: 10061-02-6

Processing Results



RT	Mass	Response	Amount
9.37	75.00	188	1.821070
9.37	77.00	431	
9.36	39.00	137	

Reviewer: bowieh, 22-Oct-2019 09:42:18

Audit Action: Marked Compound Undetected

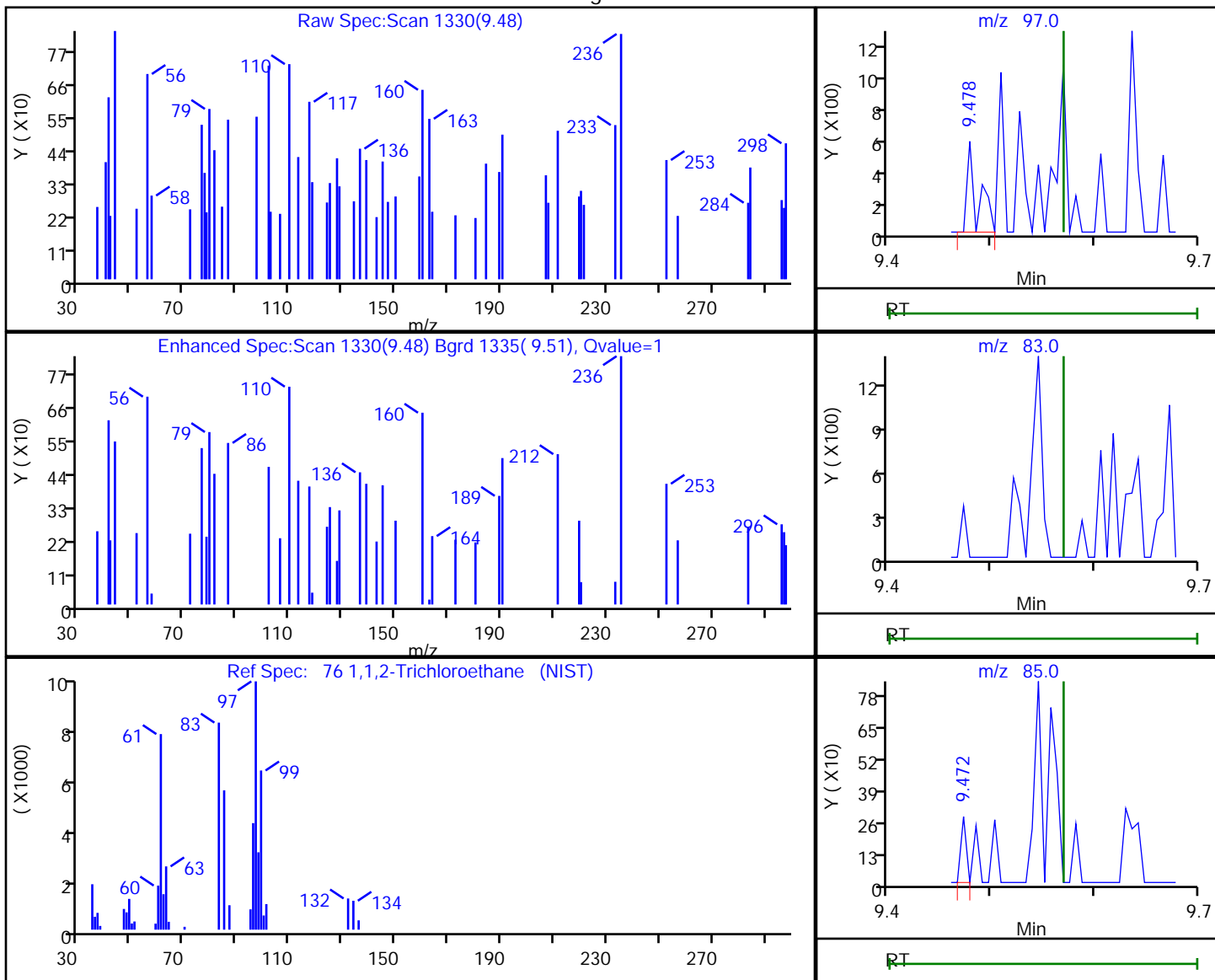
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101909.D
 Injection Date: 19-Oct-2019 17:02:30 Instrument ID: CHHP6
 Lims ID: 180-97133-B-1 Lab Sample ID: 180-97133-1
 Client ID: HD-COD-SW-17-0/1-0
 Operator ID: 433269 ALS Bottle#: 3 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

76 1,1,2-Trichloroethane, CAS: 79-00-5

Processing Results



RT	Mass	Response	Amount
9.48	97.00	379	0.198179
9.57	83.00	0	
9.47	85.00	100	

Reviewer: bowieh, 22-Oct-2019 09:42:19

Audit Action: Marked Compound Undetected

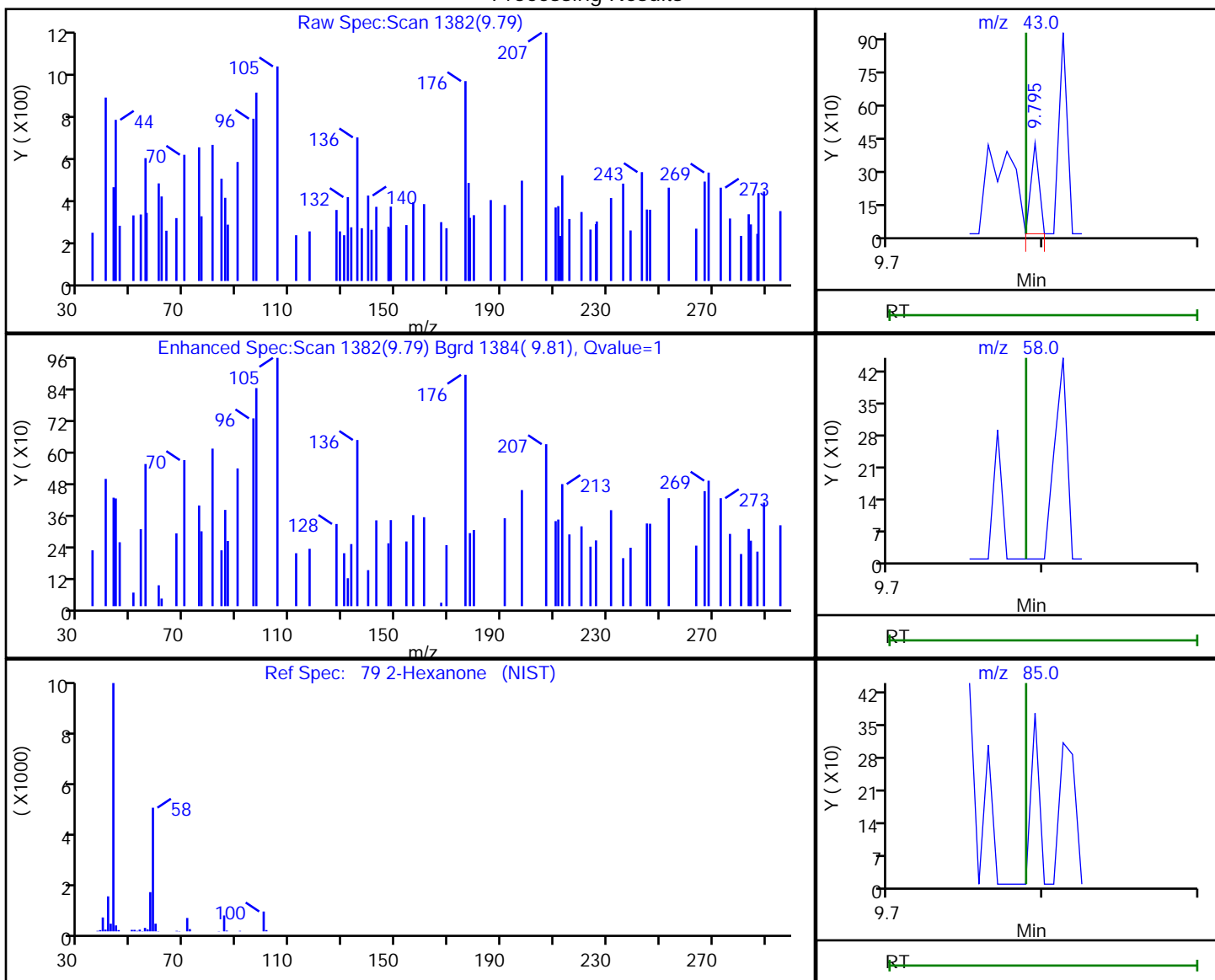
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101909.D
 Injection Date: 19-Oct-2019 17:02:30 Instrument ID: CHHP6
 Lims ID: 180-97133-B-1 Lab Sample ID: 180-97133-1
 Client ID: HD-COD-SW-17-0/1-0
 Operator ID: 433269 ALS Bottle#: 3 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

79 2-Hexanone, CAS: 591-78-6

Processing Results



RT	Mass	Response	Amount
9.79	43.00	152	0.094738
9.79	58.00	0	
9.79	85.00	0	

Reviewer: bowieh, 22-Oct-2019 09:42:21

Audit Action: Marked Compound Undetected

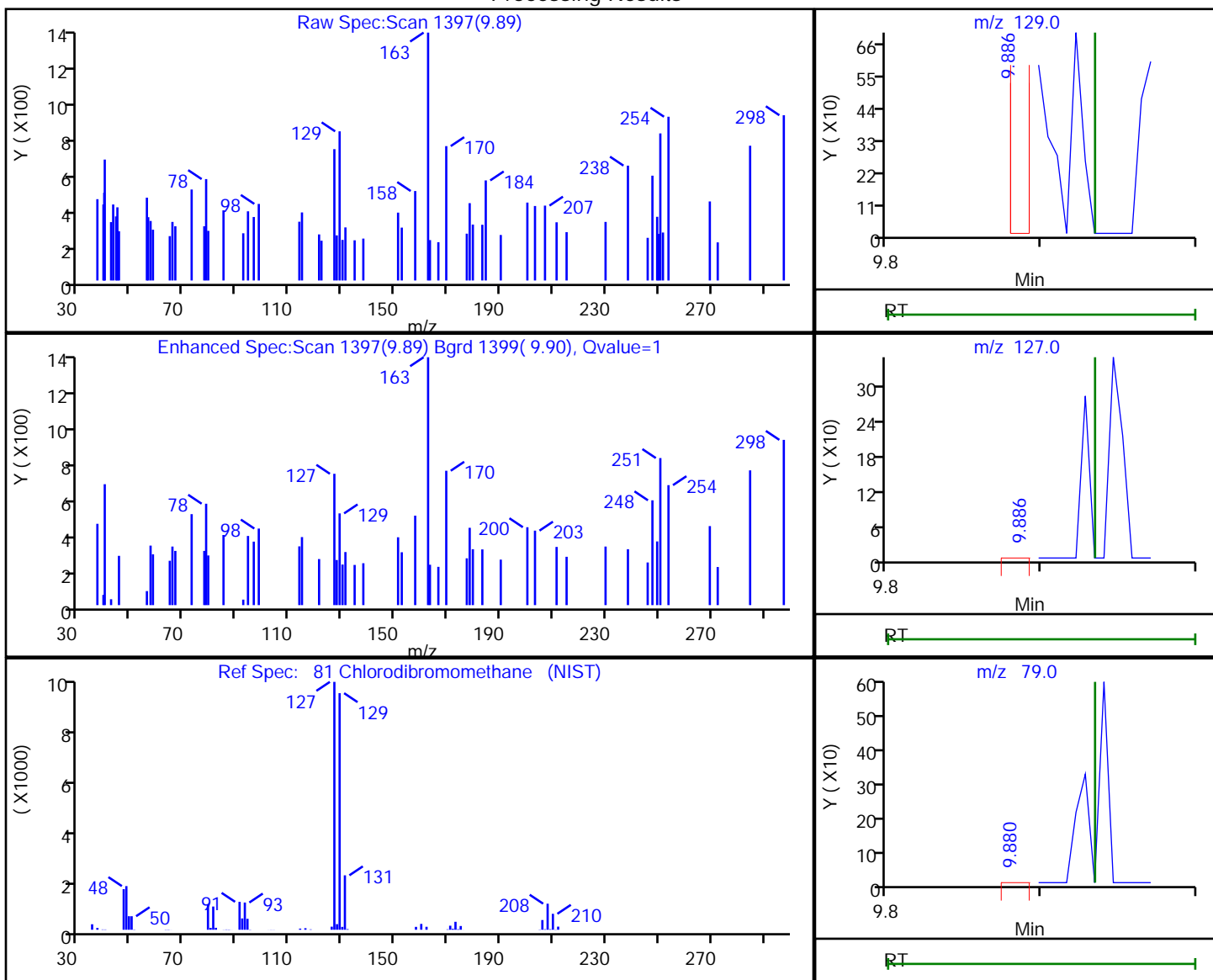
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101909.D
 Injection Date: 19-Oct-2019 17:02:30 Instrument ID: CHHP6
 Lims ID: 180-97133-B-1 Lab Sample ID: 180-97133-1
 Client ID: HD-COD-SW-17-0/1-0
 Operator ID: 433269 ALS Bottle#: 3 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

81 Chlorodibromomethane, CAS: 124-48-1

Processing Results



RT	Mass	Response	Amount
9.89	129.00	287	0.153787
9.89	127.00	354	
9.88	79.00	297	

Reviewer: bowieh, 22-Oct-2019 09:42:23

Audit Action: Marked Compound Undetected

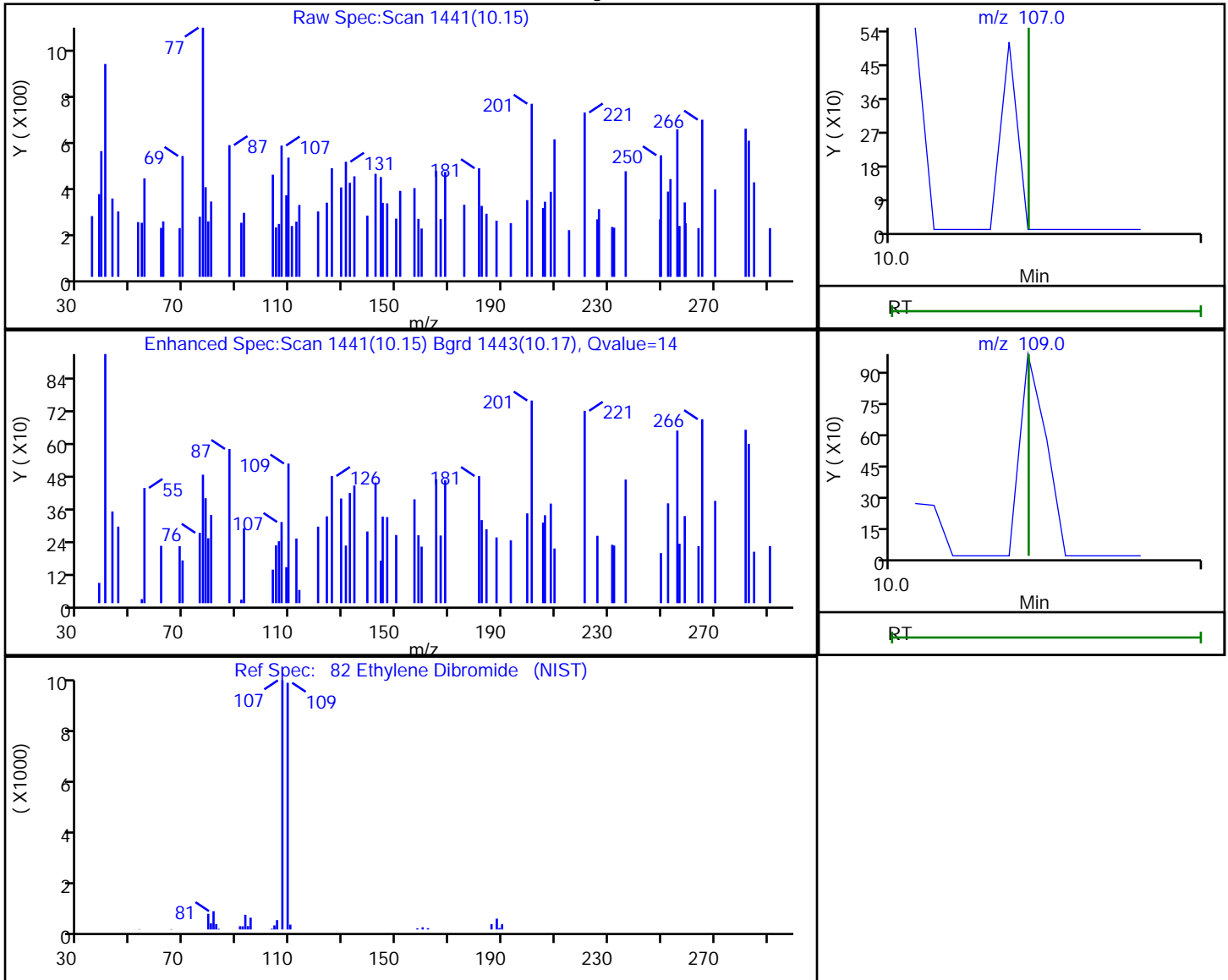
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101909.D
Injection Date: 19-Oct-2019 17:02:30 Instrument ID: CHHP6
Lims ID: 180-97133-B-1 Lab Sample ID: 180-97133-1
Client ID: HD-COD-SW-17-0/1-0
Operator ID: 433269 ALS Bottle#: 3 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

82 Ethylene Dibromide, CAS: 106-93-4

Processing Results



RT	Mass	Response	Amount
10.15	107.00	207	0.106468
10.15	109.00	188	

Reviewer: bowieh, 22-Oct-2019 09:42:25

Audit Action: Marked Compound Undetected

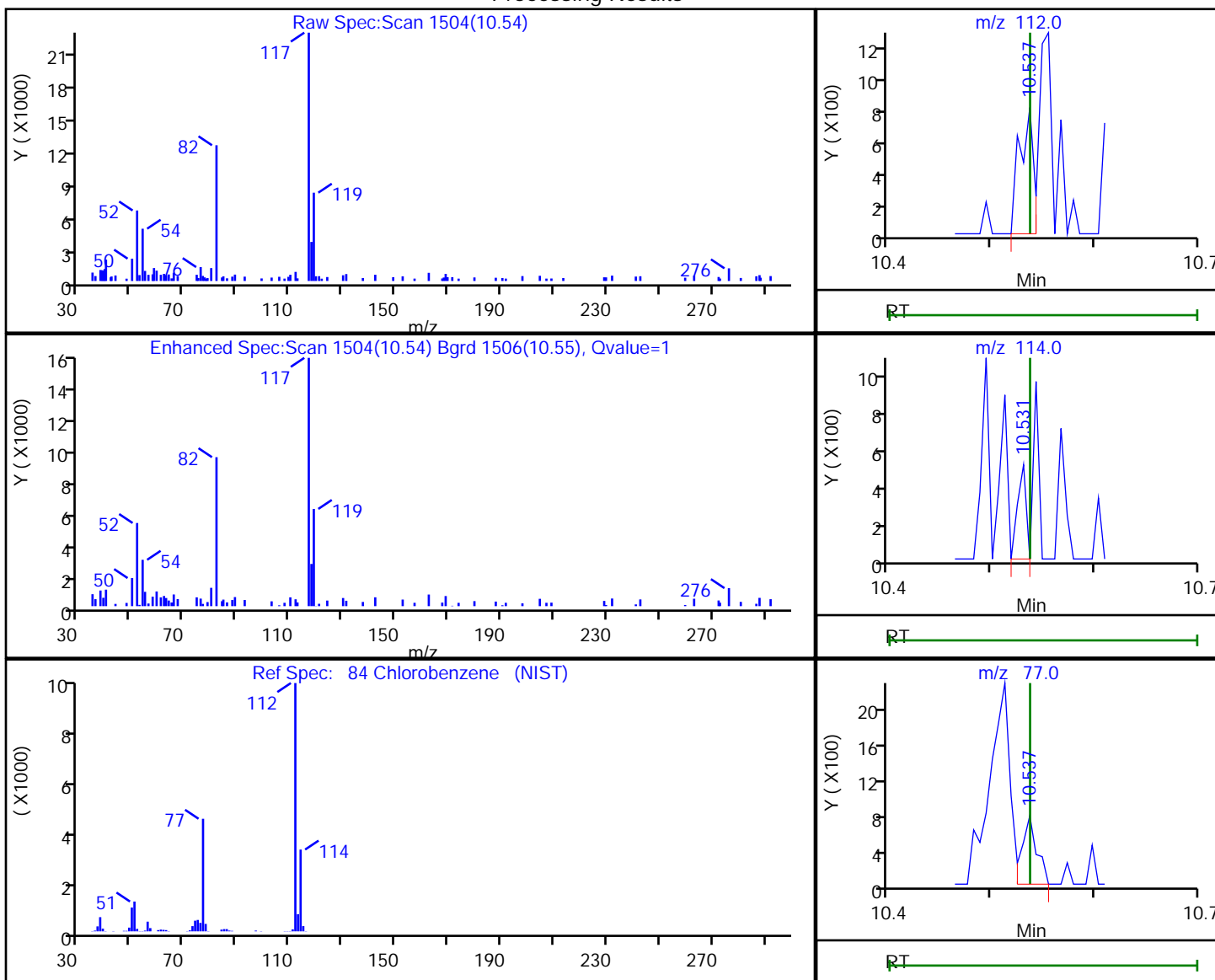
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101909.D
 Injection Date: 19-Oct-2019 17:02:30 Instrument ID: CHHP6
 Lims ID: 180-97133-B-1 Lab Sample ID: 180-97133-1
 Client ID: HD-COD-SW-17-0/1-0
 Operator ID: 433269 ALS Bottle#: 3 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

84 Chlorobenzene, CAS: 108-90-7

Processing Results



RT	Mass	Response	Amount
10.54	112.00	779	0.113225
10.53	114.00	275	
10.54	77.00	773	

Reviewer: bowieh, 22-Oct-2019 09:42:26

Audit Action: Marked Compound Undetected

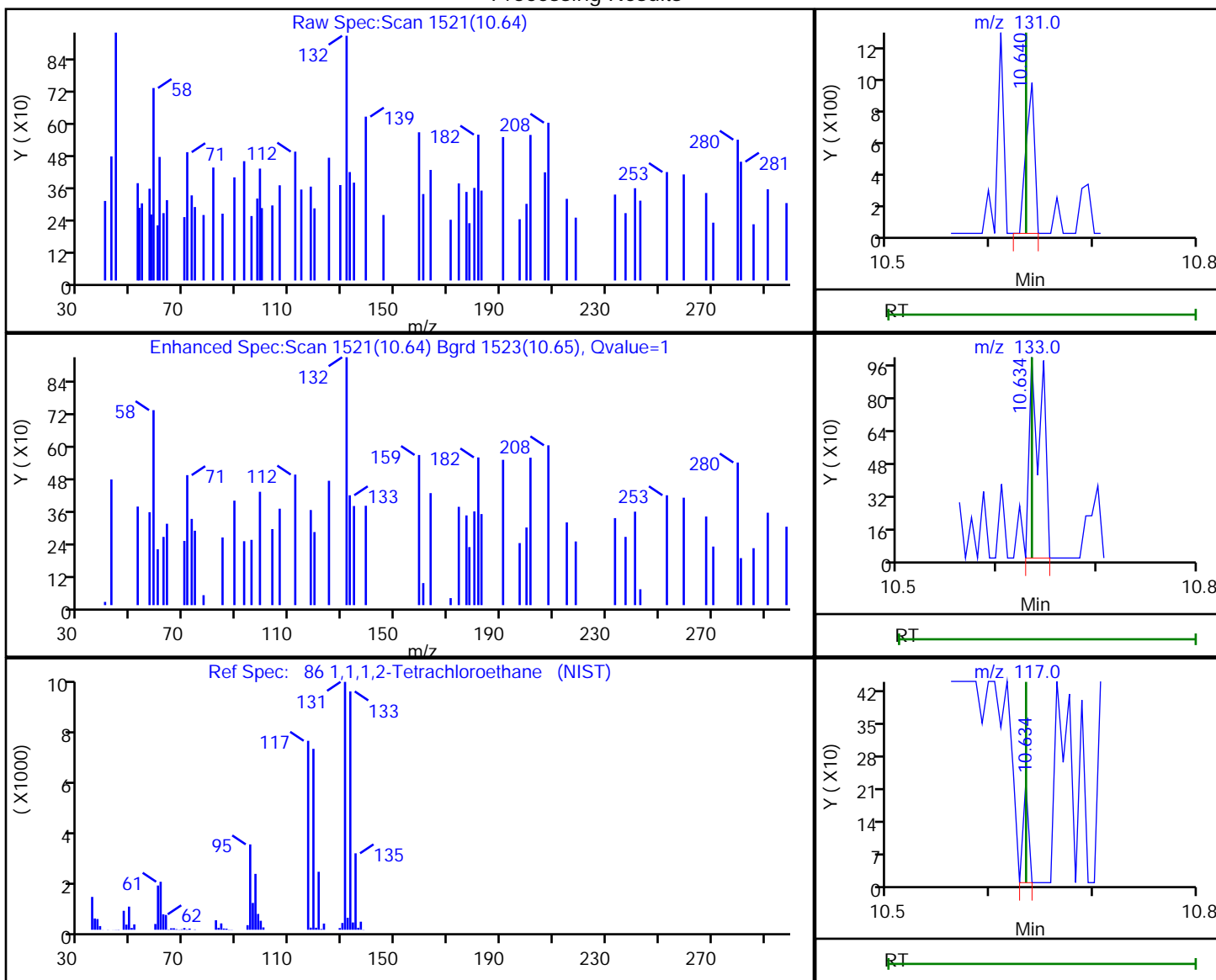
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101909.D
Injection Date: 19-Oct-2019 17:02:30 Instrument ID: CHHP6
Lims ID: 180-97133-B-1 Lab Sample ID: 180-97133-1
Client ID: HD-COD-SW-17-0/1-0
Operator ID: 433269 ALS Bottle#: 3 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

86 1,1,1,2-Tetrachloroethane, CAS: 630-20-6

Processing Results



RT	Mass	Response	Amount
10.64	131.00	526	0.238806
10.63	133.00	867	
10.63	117.00	79	

Reviewer: bowieh, 22-Oct-2019 09:42:29

Audit Action: Marked Compound Undetected

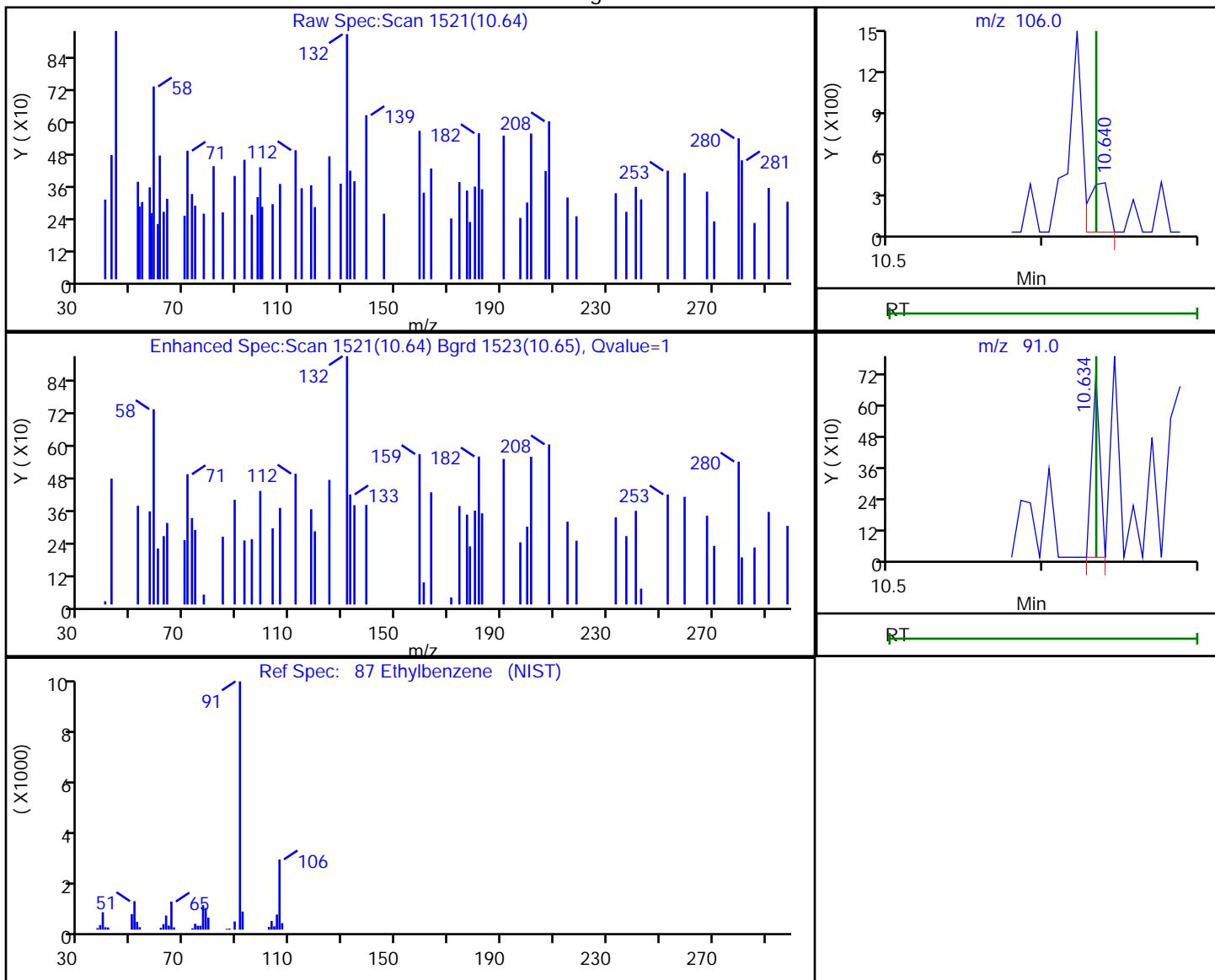
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101909.D
Injection Date: 19-Oct-2019 17:02:30 Instrument ID: CHHP6
Lims ID: 180-97133-B-1 Lab Sample ID: 180-97133-1
Client ID: HD-COD-SW-17-0/1-0
Operator ID: 433269 ALS Bottle#: 3 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

87 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
10.64	106.00	331	0.082082
10.63	91.00	262	

Reviewer: bowieh, 22-Oct-2019 09:42:28

Audit Action: Marked Compound Undetected

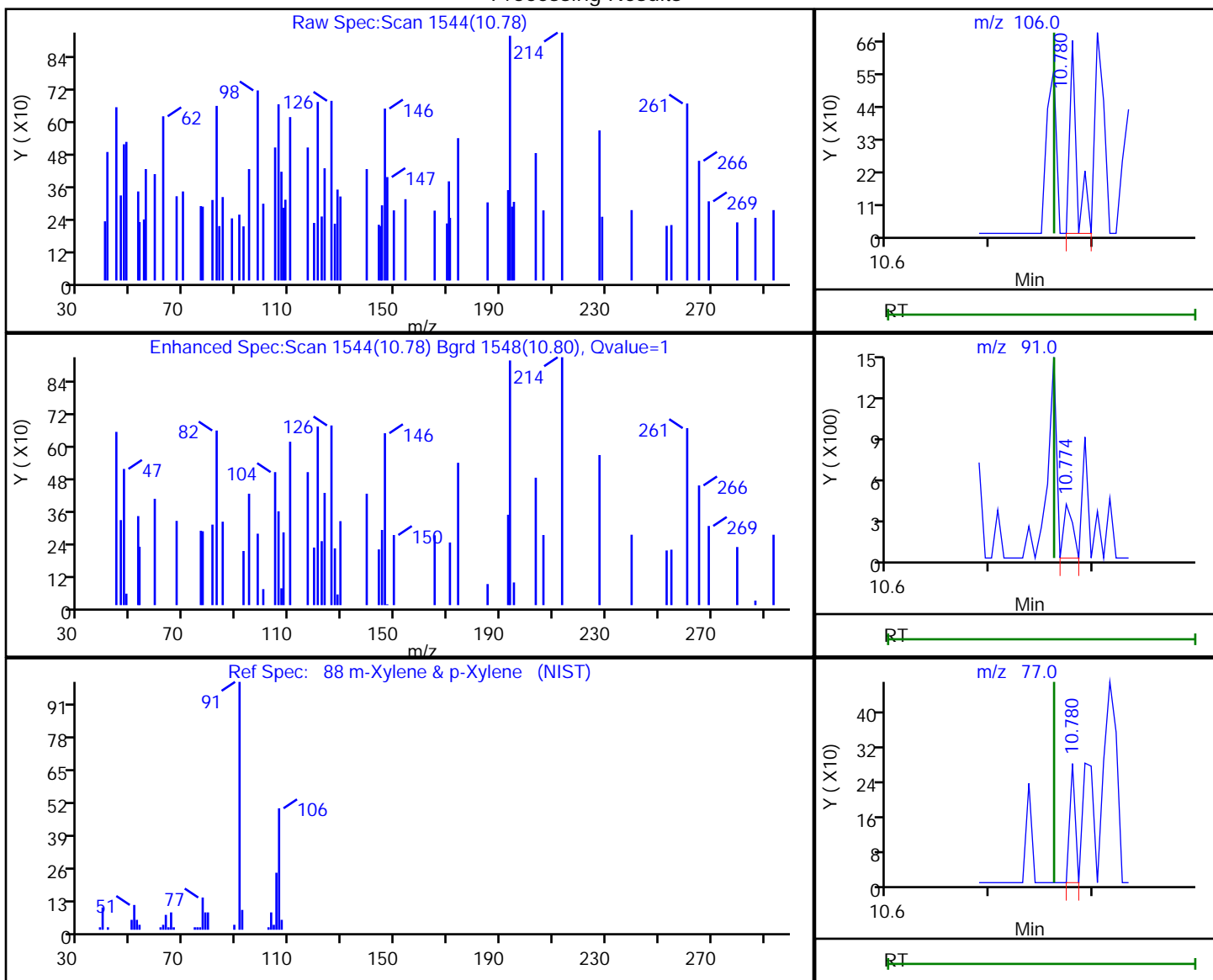
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101909.D
Injection Date: 19-Oct-2019 17:02:30 Instrument ID: CHHP6
Lims ID: 180-97133-B-1 Lab Sample ID: 180-97133-1
Client ID: HD-COD-SW-17-0/1-0
Operator ID: 433269 ALS Bottle#: 3 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

88 m-Xylene & p-Xylene, CAS: 179601-23-1

Processing Results



RT	Mass	Response	Amount
10.78	106.00	320	0.064980
10.77	91.00	228	
10.78	77.00	101	

Reviewer: bowieh, 22-Oct-2019 09:42:30

Audit Action: Marked Compound Undetected

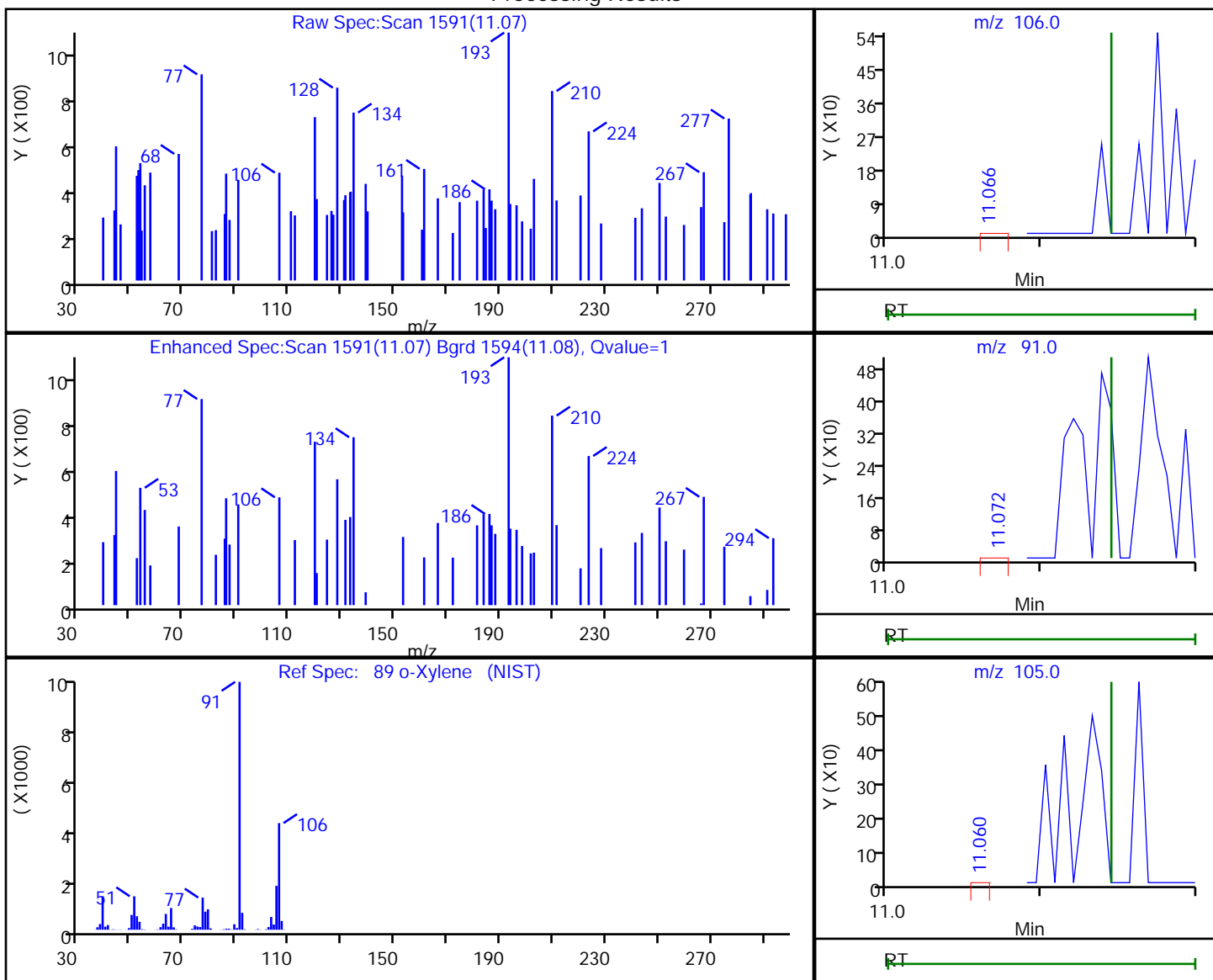
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101909.D
Injection Date: 19-Oct-2019 17:02:30 Instrument ID: CHHP6
Lims ID: 180-97133-B-1 Lab Sample ID: 180-97133-1
Client ID: HD-COD-SW-17-0/1-0
Operator ID: 433269 ALS Bottle#: 3 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

89 o-Xylene, CAS: 95-47-6

Processing Results



RT	Mass	Response	Amount
11.07	106.00	242	0.051084
11.07	91.00	89	
11.06	105.00	180	

Reviewer: bowieh, 22-Oct-2019 09:42:31

Audit Action: Marked Compound Undetected

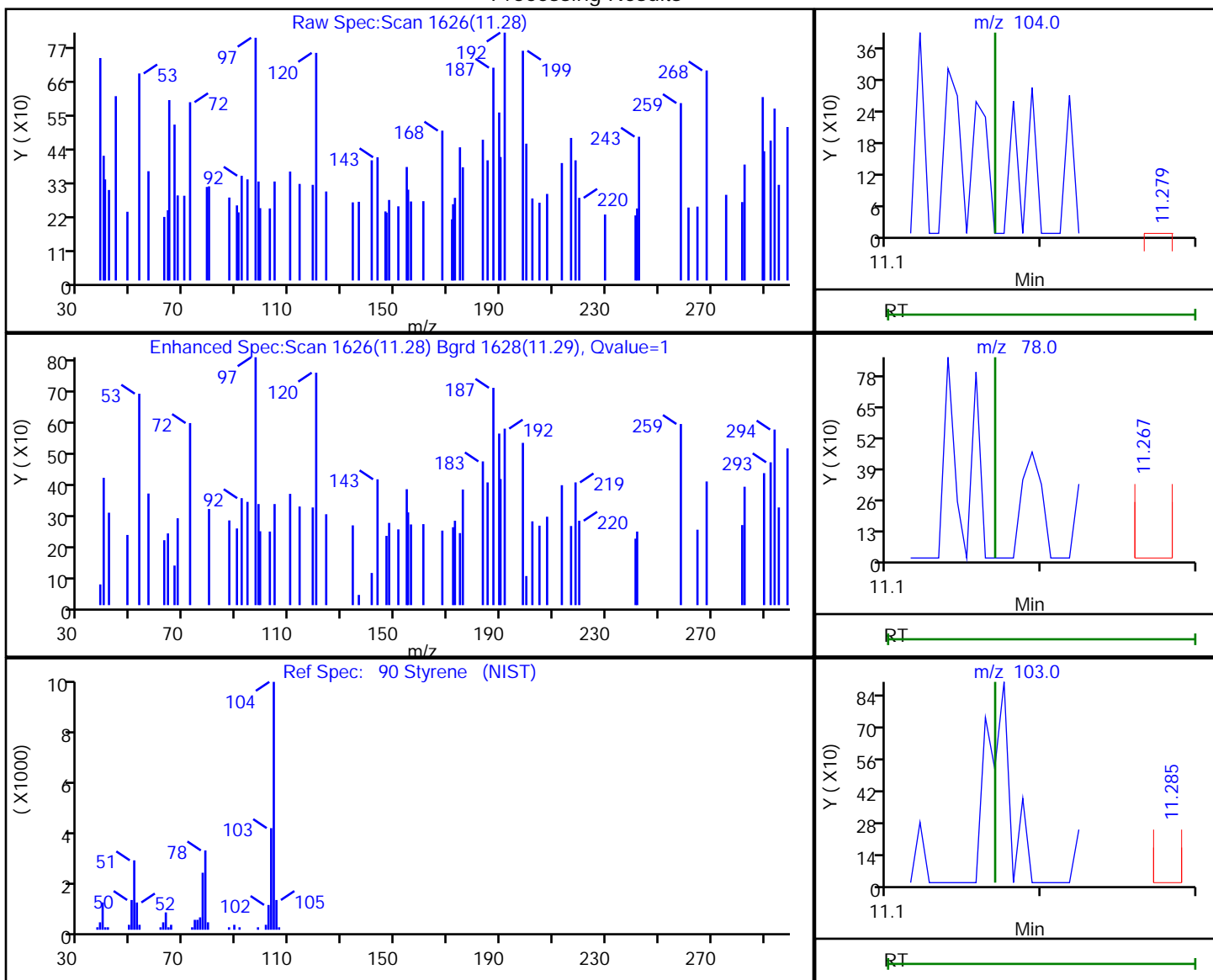
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101909.D
Injection Date: 19-Oct-2019 17:02:30 Instrument ID: CHHP6
Lims ID: 180-97133-B-1 Lab Sample ID: 180-97133-1
Client ID: HD-COD-SW-17-0/1-0
Operator ID: 433269 ALS Bottle#: 3 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

90 Styrene, CAS: 100-42-5

Processing Results



RT	Mass	Response	Amount
11.28	104.00	209	0.027764
11.27	78.00	328	
11.29	103.00	137	

Reviewer: bowieh, 22-Oct-2019 09:42:33

Audit Action: Marked Compound Undetected

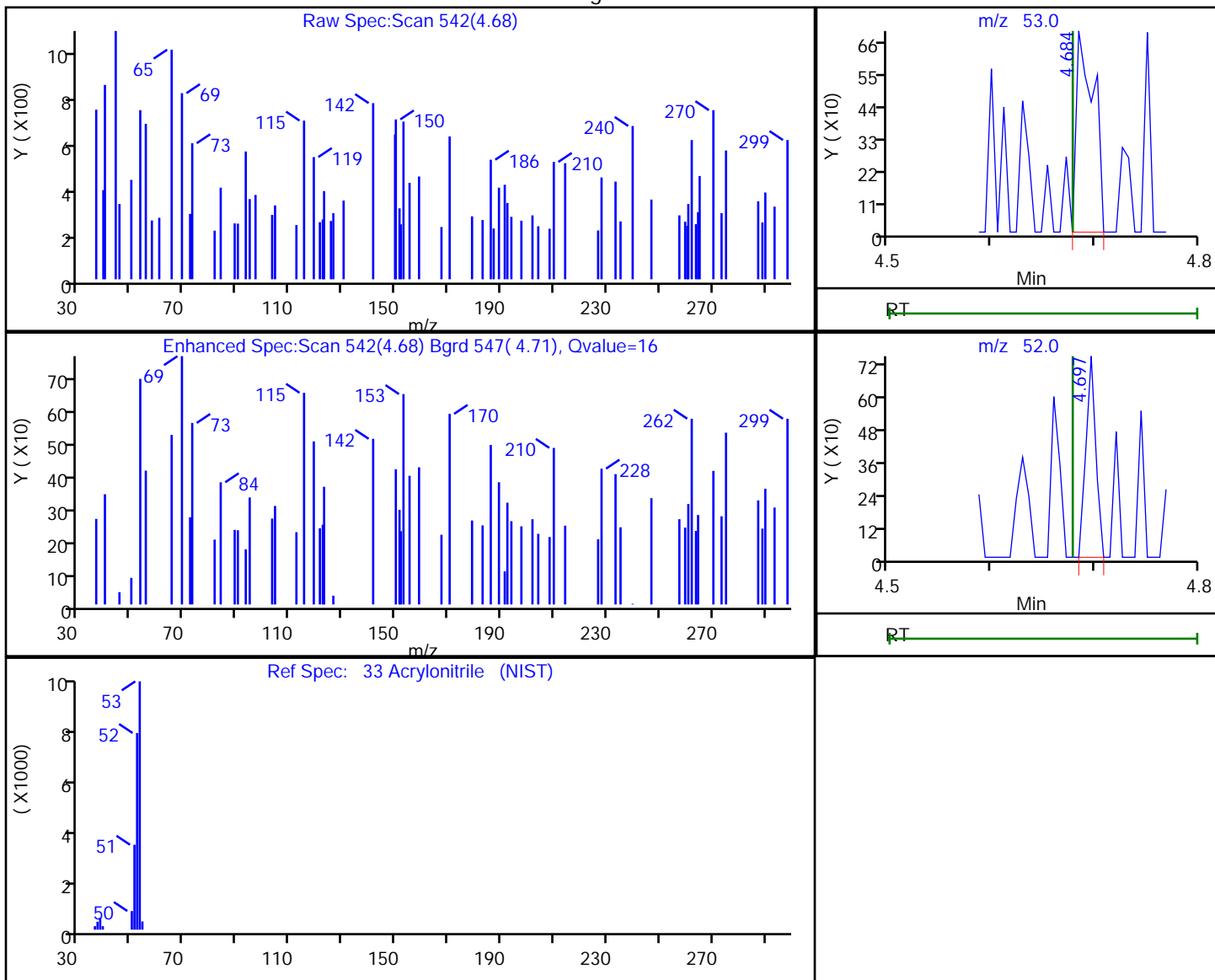
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101909.D
Injection Date: 19-Oct-2019 17:02:30 Instrument ID: CHHP6
Lims ID: 180-97133-B-1 Lab Sample ID: 180-97133-1
Client ID: HD-COD-SW-17-0/1-0
Operator ID: 433269 ALS Bottle#: 3 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

33 Acrylonitrile, CAS: 107-13-1

Processing Results



RT	Mass	Response	Amount
4.68	53.00	815	0.950396
4.70	52.00	503	

Reviewer: bowieh, 22-Oct-2019 09:41:57

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1
 SDG No.: _____
 Client Sample ID: HD-MW-6-0/1-0 Lab Sample ID: 180-97133-2
 Matrix: Water Lab File ID: 6101910.D
 Analysis Method: EPA 8260C Date Collected: 10/09/2019 13:25
 Sample wt/vol: 5 (mL) Date Analyzed: 10/19/2019 17:28
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 295448 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	ND		1.0	0.90
75-01-4	Vinyl chloride	ND		1.0	0.88
74-83-9	Bromomethane	ND		1.0	0.89
75-00-3	Chloroethane	ND		1.0	0.90
75-35-4	1,1-Dichloroethene	ND		1.0	0.55
67-64-1	Acetone	ND		5.0	3.4
75-15-0	Carbon disulfide	ND		1.0	0.88
75-09-2	Methylene Chloride	ND		1.0	0.89
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.67
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.59
75-34-3	1,1-Dichloroethane	ND		1.0	0.63
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.71
74-97-5	Bromochloromethane	ND		1.0	0.63
78-93-3	2-Butanone (MEK)	ND		5.0	2.6
67-66-3	Chloroform	ND		1.0	0.60
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.60
56-23-5	Carbon tetrachloride	ND		1.0	0.88
71-43-2	Benzene	ND		1.0	0.60
107-06-2	1,2-Dichloroethane	ND		1.0	0.57
79-01-6	Trichloroethene	ND		1.0	0.69
78-87-5	1,2-Dichloropropane	ND		1.0	0.66
75-27-4	Bromodichloromethane	ND		1.0	0.64
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.59
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	3.1
108-88-3	Toluene	ND		1.0	0.46
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.58
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.45
127-18-4	Tetrachloroethene	ND		1.0	0.47
591-78-6	2-Hexanone	ND		5.0	3.3
124-48-1	Dibromochloromethane	ND		1.0	0.84
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.50
108-90-7	Chlorobenzene	ND		1.0	0.50
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.57
100-41-4	Ethylbenzene	ND		1.0	0.51
1330-20-7	Xylenes, Total	ND		2.0	0.89
100-42-5	Styrene	ND		1.0	0.47

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1
 SDG No.: _____
 Client Sample ID: HD-MW-6-0/1-0 Lab Sample ID: 180-97133-2
 Matrix: Water Lab File ID: 6101910.D
 Analysis Method: EPA 8260C Date Collected: 10/09/2019 13:25
 Sample wt/vol: 5 (mL) Date Analyzed: 10/19/2019 17:28
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 295448 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	ND		1.0	0.98
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.60
107-13-1	Acrylonitrile	ND		20	7.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	115		70-150
2037-26-5	Toluene-d8 (Surr)	104		78-128
460-00-4	4-Bromofluorobenzene (Surr)	100		64-123
1868-53-7	Dibromofluoromethane (Surr)	104		75-147

Eurofins TestAmerica, Pittsburgh
Target Compound Quantitation Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101910.D
 Lims ID: 180-97133-A-2
 Client ID: HD-MW-6-0/1-0
 Sample Type: Client
 Inject. Date: 19-Oct-2019 17:28:30 ALS Bottle#: 4 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-0029191-010
 Misc. Info.: 180-97133-a-2
 Operator ID: 433269 Instrument ID: CHHP6
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C_D ICAL
 Last Update: 22-Oct-2019 09:44:30 Calib Date: 18-Oct-2019 18:47:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101817.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX0302

First Level Reviewer: bowieh

Date: 22-Oct-2019 09:44:30

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.430	4.429	0.001	89	137196	1000.0	
* 2 Fluorobenzene (IS)	96	7.405	7.410	-0.005	98	464955	50.0	
* 3 Chlorobenzene-d5	119	10.507	10.513	-0.006	88	114363	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.855	12.855	0.000	98	161706	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.693	6.686	0.007	93	114023	52.2	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	7.058	7.057	0.001	92	191419	57.3	
\$ 7 Toluene-d8 (Surr)	98	9.053	9.053	0.000	94	432279	52.0	
\$ 8 4-Bromofluorobenzene (Surr	95	11.693	11.693	0.000	0	171715	50.0	
12 Chloromethane	50		1.886				ND	U
13 Vinyl chloride	62		2.008				ND	U
15 Bromomethane	94		2.355				ND	U
16 Chloroethane	64		2.495				ND	
22 1,1-Dichloroethene	96		3.468				ND	
24 Acetone	43		3.584				ND	U
26 Carbon disulfide	76		3.766				ND	U
31 Methylene Chloride	84		4.289				ND	
33 Acrylonitrile	53		4.679				ND	U
34 trans-1,2-Dichloroethene	96		4.709				ND	U
35 Methyl tert-butyl ether	73		4.715				ND	U
37 1,1-Dichloroethane	63		5.336				ND	
43 cis-1,2-Dichloroethene	96		6.078				ND	U
44 2-Butanone (MEK)	43		6.090				ND	U
48 Chlorobromomethane	128		6.358				ND	
50 Chloroform	83	6.516	6.510	0.006	21	1957	0.4048	
51 1,1,1-Trichloroethane	97		6.662				ND	
53 Carbon tetrachloride	117		6.826				ND	
56 Benzene	78		7.063				ND	U
57 1,2-Dichloroethane	62		7.142				ND	U
61 Trichloroethene	130	7.794	7.793	0.001	38	4715	1.58	M
64 1,2-Dichloropropane	63		8.061				ND	U
68 Dichlorobromomethane	83		8.347				ND	U

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
71 cis-1,3-Dichloropropene	75		8.797				ND	U
72 4-Methyl-2-pentanone (MIBK)	43		8.955				ND	U
73 Toluene	91		9.126				ND	U
74 trans-1,3-Dichloropropene	75		9.369				ND	U
76 1,1,2-Trichloroethane	97		9.570				ND	U
77 Tetrachloroethene	164		9.631				ND	U
79 2-Hexanone	43		9.789				ND	U
81 Chlorodibromomethane	129		9.935				ND	U
82 Ethylene Dibromide	107		10.044				ND	U
84 Chlorobenzene	112		10.537				ND	U
87 Ethylbenzene	106		10.634				ND	U
86 1,1,1,2-Tetrachloroethane	131		10.634				ND	U
88 m-Xylene & p-Xylene	106		10.762				ND	U
89 o-Xylene	106		11.145				ND	U
90 Styrene	104		11.170				ND	U
91 Bromoform	173		11.352				ND	U
96 1,1,2,2-Tetrachloroethane	83		11.833				ND	U
S 131 Xylenes, Total	106		1.000				ND	

QC Flag Legend

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

voaWI/SHP5_00014

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101910.D

Injection Date: 19-Oct-2019 17:28:30

Instrument ID: CHHP6

Operator ID: 433269

Lims ID: 180-97133-A-2

Lab Sample ID: 180-97133-2

Worklist Smp#: 10

Client ID: HD-MW-6-0/1-0

Purge Vol: 5.000 mL

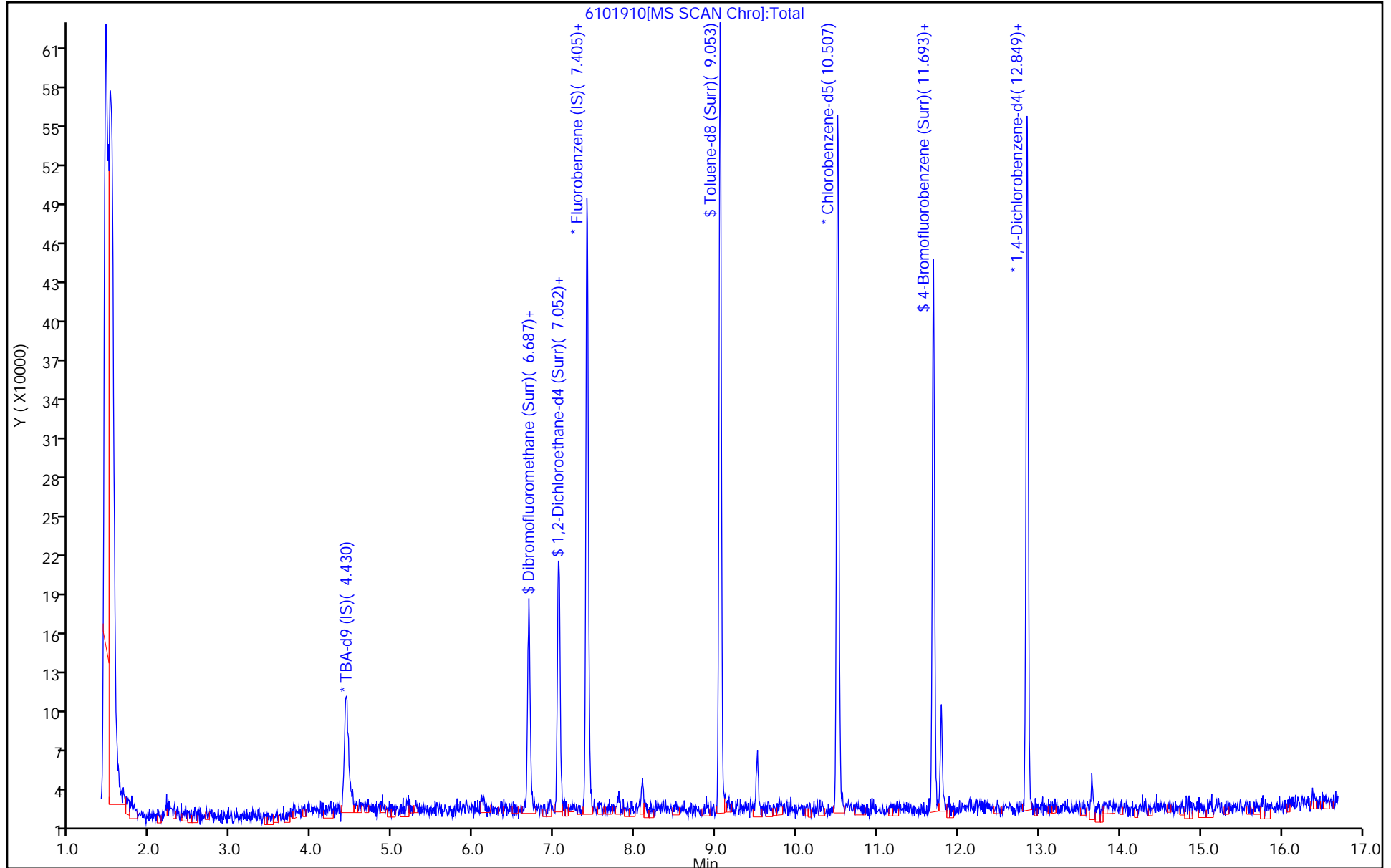
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C_D ICAL

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Pittsburgh
Recovery Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101910.D
 Lims ID: 180-97133-A-2
 Client ID: HD-MW-6-0/1-0
 Sample Type: Client
 Inject. Date: 19-Oct-2019 17:28:30 ALS Bottle#: 4 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-0029191-010
 Misc. Info.: 180-97133-a-2
 Operator ID: 433269 Instrument ID: CHHP6
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C_D ICAL
 Last Update: 22-Oct-2019 09:44:30 Calib Date: 18-Oct-2019 18:47:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101817.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX0302

First Level Reviewer: bowieh Date: 22-Oct-2019 09:44:30

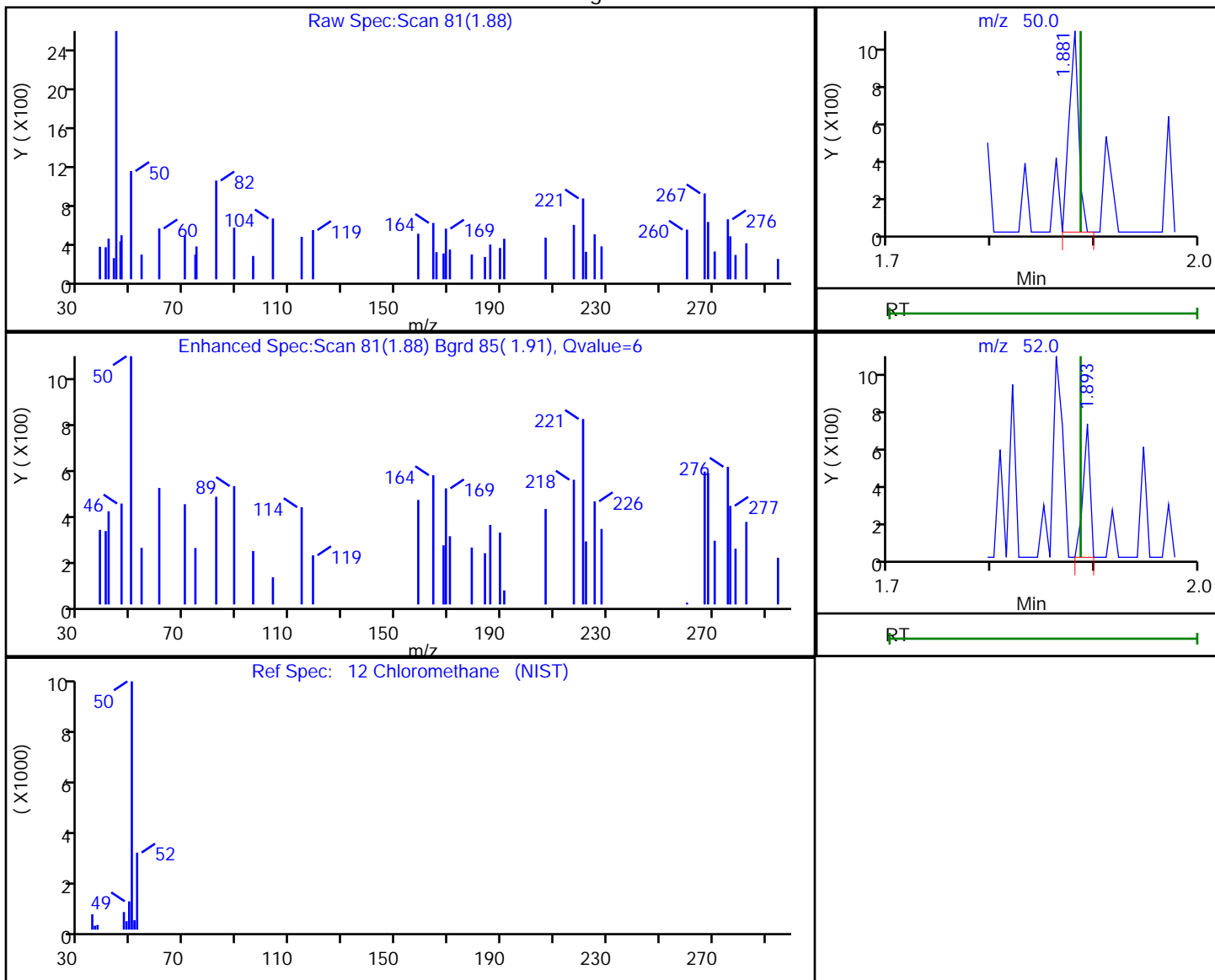
Compound	Amount Added	Amount Recovered	% Rec.
\$ 5 Dibromofluoromethane (Surr)	50.0	52.2	104.40
\$ 6 1,2-Dichloroethane-d4 (Surr)	50.0	57.3	114.67
\$ 7 Toluene-d8 (Surr)	50.0	52.0	103.93
\$ 8 4-Bromofluorobenzene (Surr)	50.0	50.0	99.99

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101910.D
Injection Date: 19-Oct-2019 17:28:30 Instrument ID: CHHP6
Lims ID: 180-97133-A-2 Lab Sample ID: 180-97133-2
Client ID: HD-MW-6-0/1-0
Operator ID: 433269 ALS Bottle#: 4 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

12 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
1.88	50.00	699	0.177873
1.89	52.00	338	

Reviewer: bowieh, 22-Oct-2019 09:42:48

Audit Action: Marked Compound Undetected

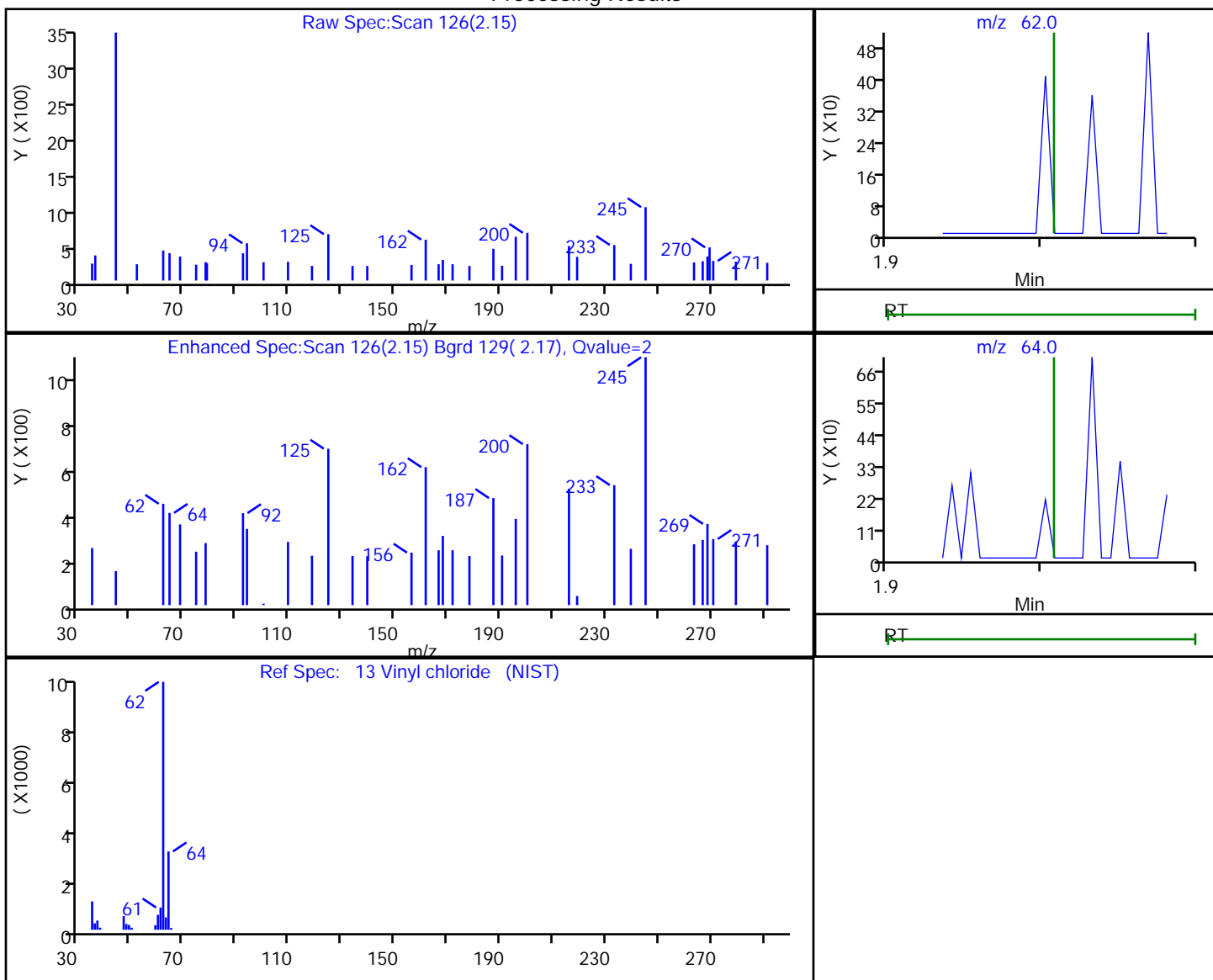
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101910.D
 Injection Date: 19-Oct-2019 17:28:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-2 Lab Sample ID: 180-97133-2
 Client ID: HD-MW-6-0/1-0
 Operator ID: 433269 ALS Bottle#: 4 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

13 Vinyl chloride, CAS: 75-01-4

Processing Results



RT	Mass	Response	Amount
2.15	62.00	235	0.070452
2.15	64.00	359	

Reviewer: bowieh, 22-Oct-2019 09:43:22

Audit Action: Marked Compound Undetected

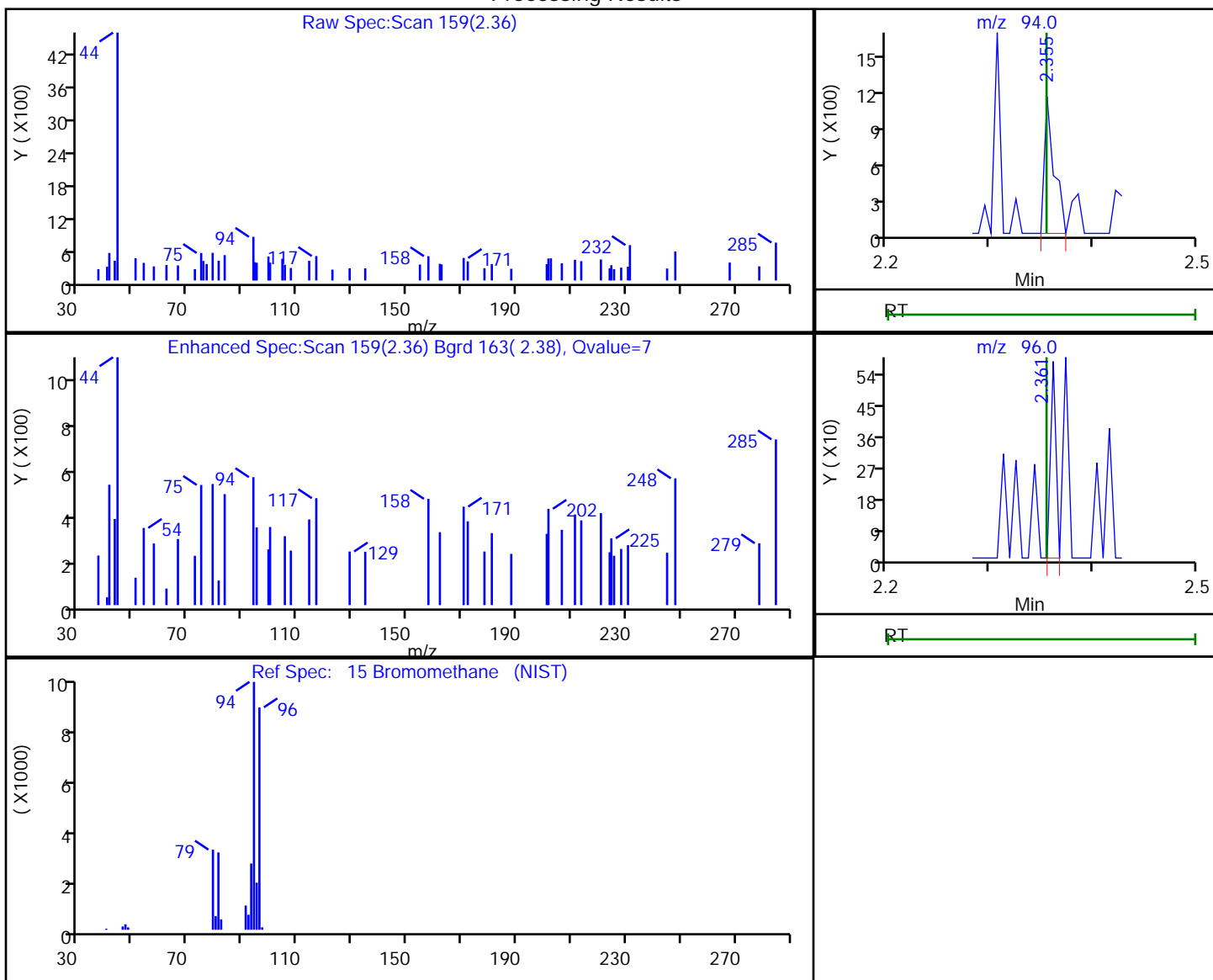
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101910.D
Injection Date: 19-Oct-2019 17:28:30 Instrument ID: CHHP6
Lims ID: 180-97133-A-2 Lab Sample ID: 180-97133-2
Client ID: HD-MW-6-0/1-0
Operator ID: 433269 ALS Bottle#: 4 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

15 Bromomethane, CAS: 74-83-9

Processing Results



RT	Mass	Response	Amount
2.36	94.00	757	0.537799
2.36	96.00	210	

Reviewer: bowieh, 22-Oct-2019 09:43:23

Audit Action: Marked Compound Undetected

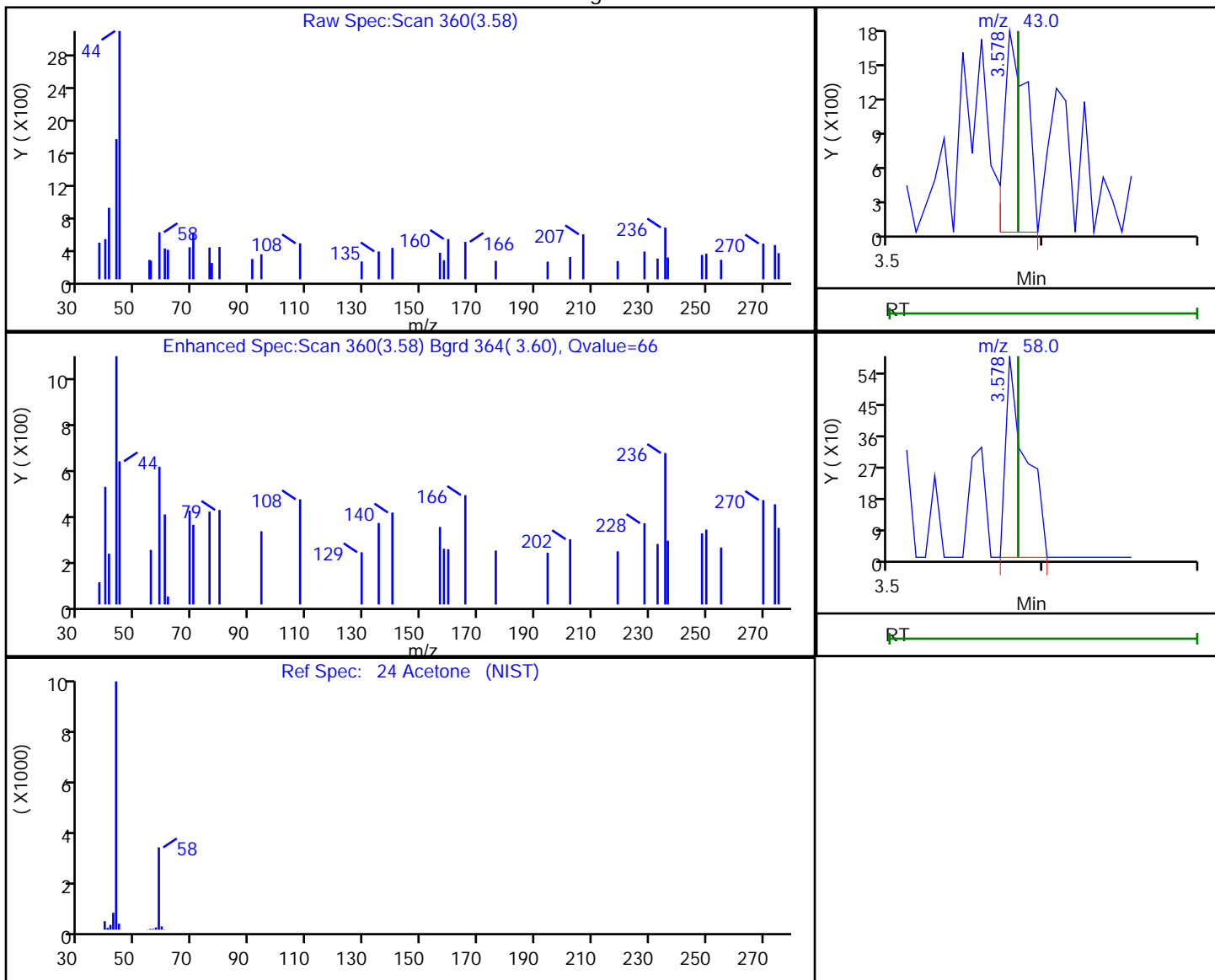
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101910.D
Injection Date: 19-Oct-2019 17:28:30 Instrument ID: CHHP6
Lims ID: 180-97133-A-2 Lab Sample ID: 180-97133-2
Client ID: HD-MW-6-0/1-0
Operator ID: 433269 ALS Bottle#: 4 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

24 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
3.58	43.00	1715	1.307022
3.58	58.00	520	

Reviewer: bowieh, 22-Oct-2019 09:43:30

Audit Action: Marked Compound Undetected

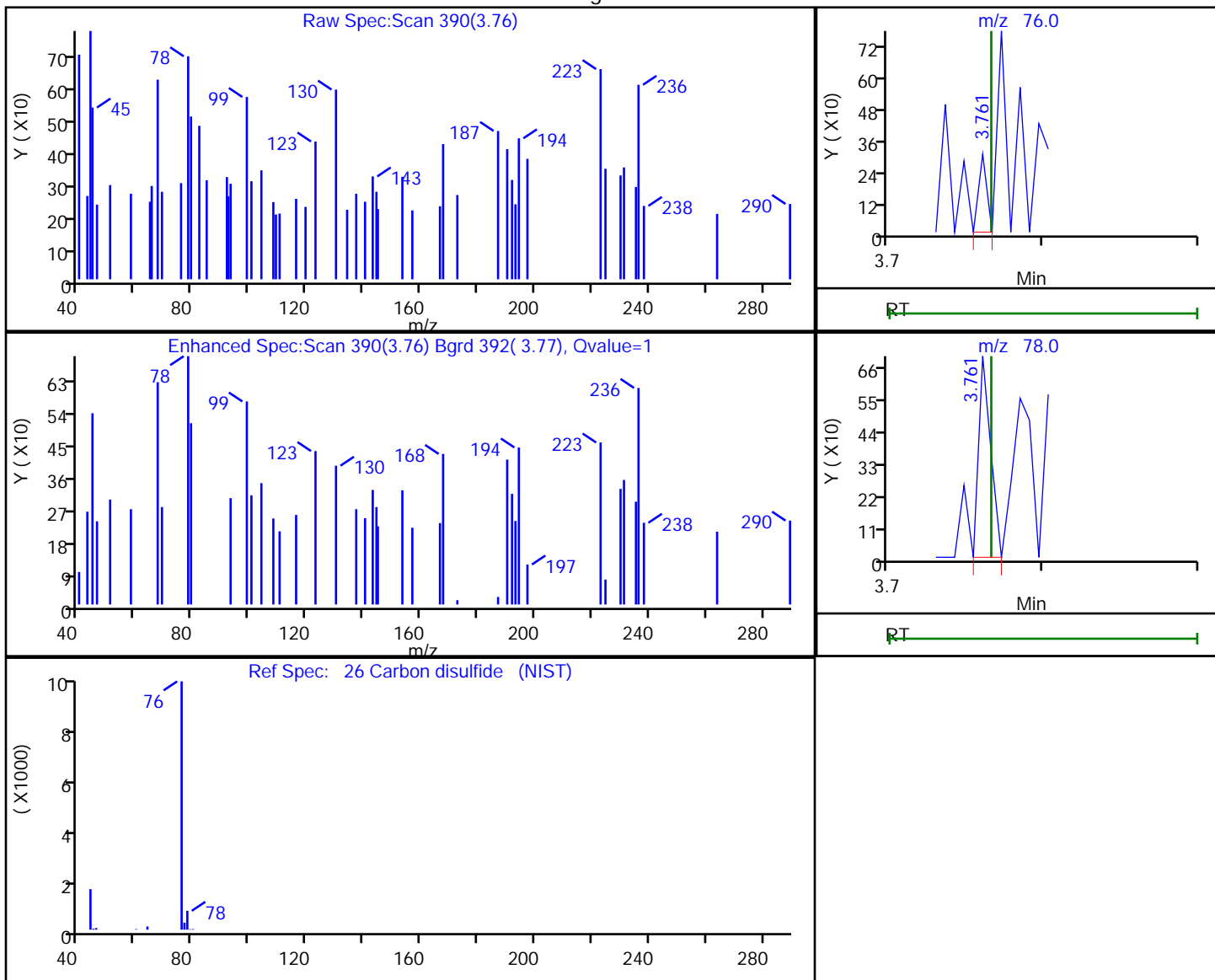
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101910.D
Injection Date: 19-Oct-2019 17:28:30 Instrument ID: CHHP6
Lims ID: 180-97133-A-2 Lab Sample ID: 180-97133-2
Client ID: HD-MW-6-0/1-0
Operator ID: 433269 ALS Bottle#: 4 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

26 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
3.76	76.00	110	0.018212
3.76	78.00	373	

Reviewer: bowieh, 22-Oct-2019 09:43:32

Audit Action: Marked Compound Undetected

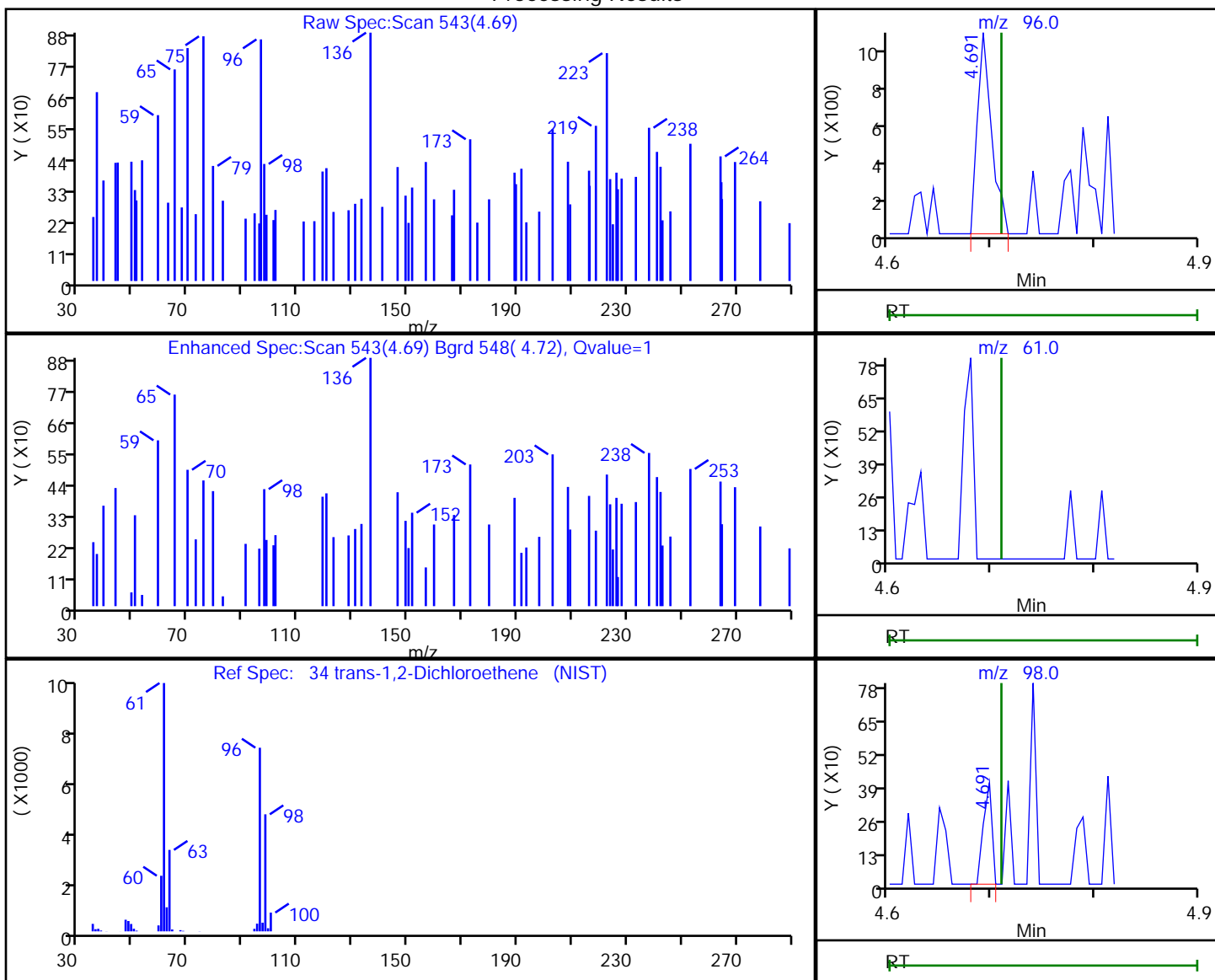
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101910.D
 Injection Date: 19-Oct-2019 17:28:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-2 Lab Sample ID: 180-97133-2
 Client ID: HD-MW-6-0/1-0
 Operator ID: 433269 ALS Bottle#: 4 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

34 trans-1,2-Dichloroethene, CAS: 156-60-5

Processing Results



RT	Mass	Response	Amount
4.69	96.00	1023	0.381671
4.71	61.00	0	
4.69	98.00	232	

Reviewer: bowieh, 22-Oct-2019 09:43:41

Audit Action: Marked Compound Undetected

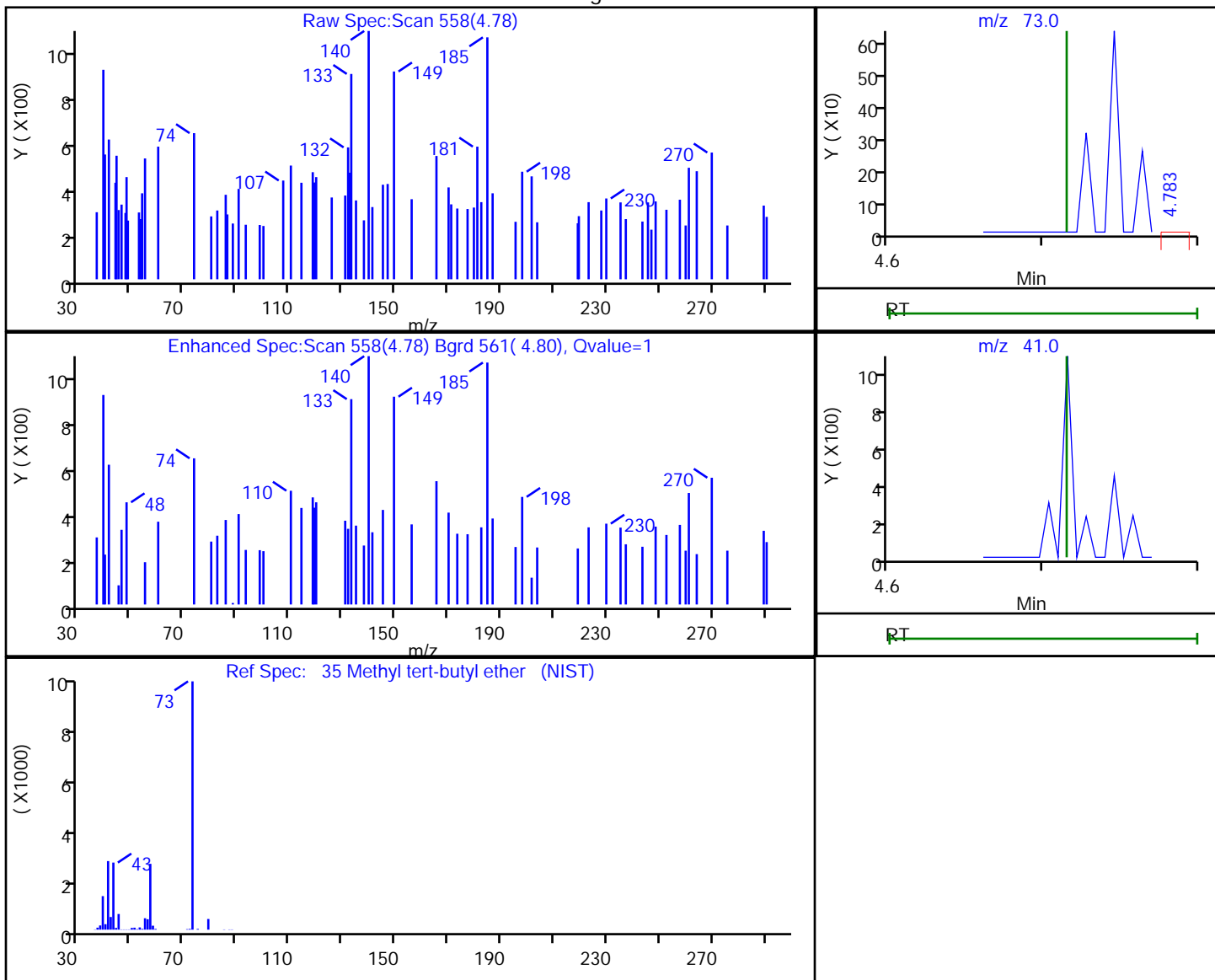
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101910.D
Injection Date: 19-Oct-2019 17:28:30 Instrument ID: CHHP6
Lims ID: 180-97133-A-2 Lab Sample ID: 180-97133-2
Client ID: HD-MW-6-0/1-0
Operator ID: 433269 ALS Bottle#: 4 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

35 Methyl tert-butyl ether, CAS: 1634-04-4

Processing Results



RT	Mass	Response	Amount
4.78	73.00	406	0.070070
4.78	41.00	301	

Reviewer: bowieh, 22-Oct-2019 09:43:42

Audit Action: Marked Compound Undetected

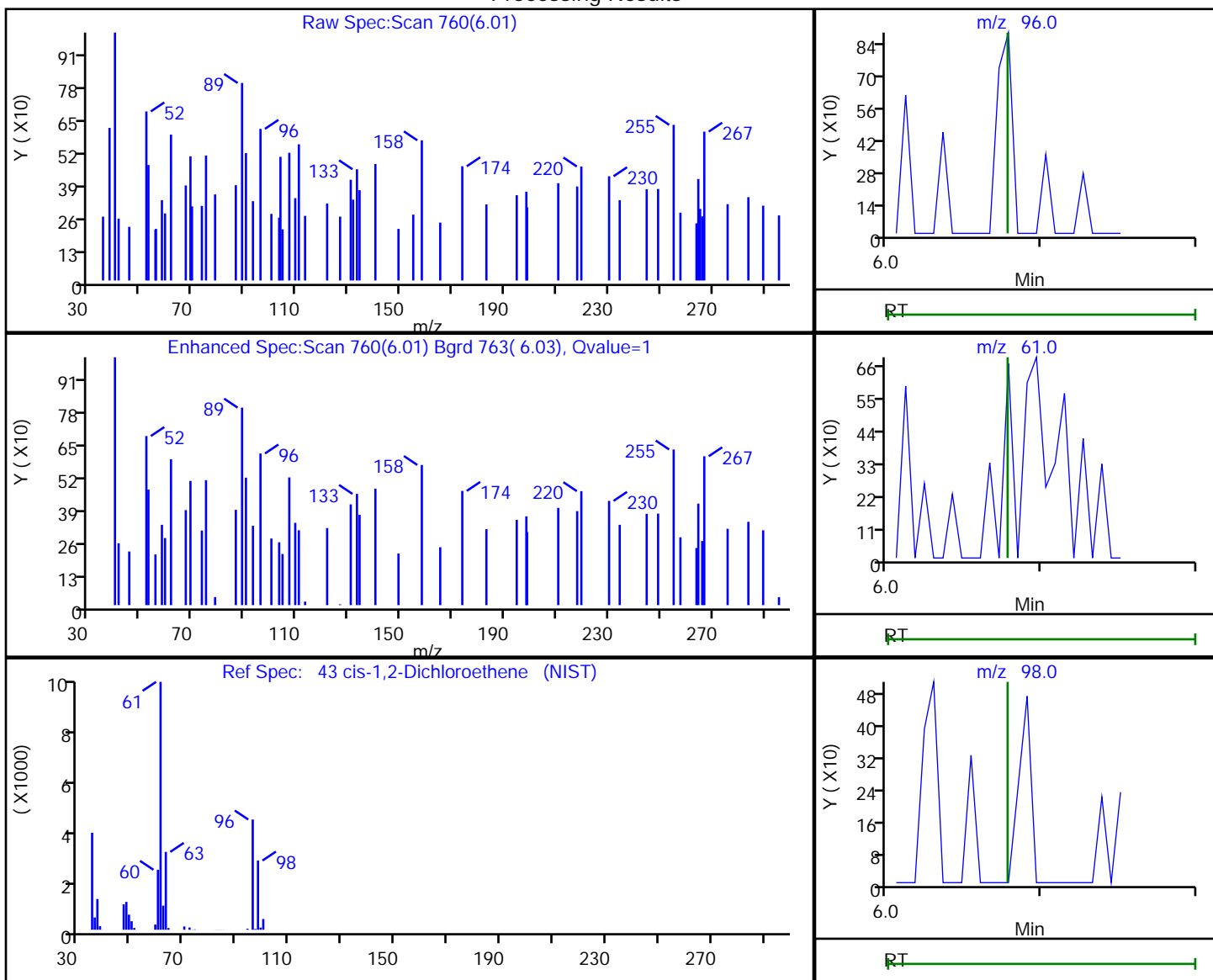
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101910.D
 Injection Date: 19-Oct-2019 17:28:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-2 Lab Sample ID: 180-97133-2
 Client ID: HD-MW-6-0/1-0
 Operator ID: 433269 ALS Bottle#: 4 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

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

Processing Results



RT	Mass	Response	Amount
6.01	96.00	222	0.079644
6.01	61.00	306	
6.00	98.00	89	

Reviewer: bowieh, 22-Oct-2019 09:43:44

Audit Action: Marked Compound Undetected

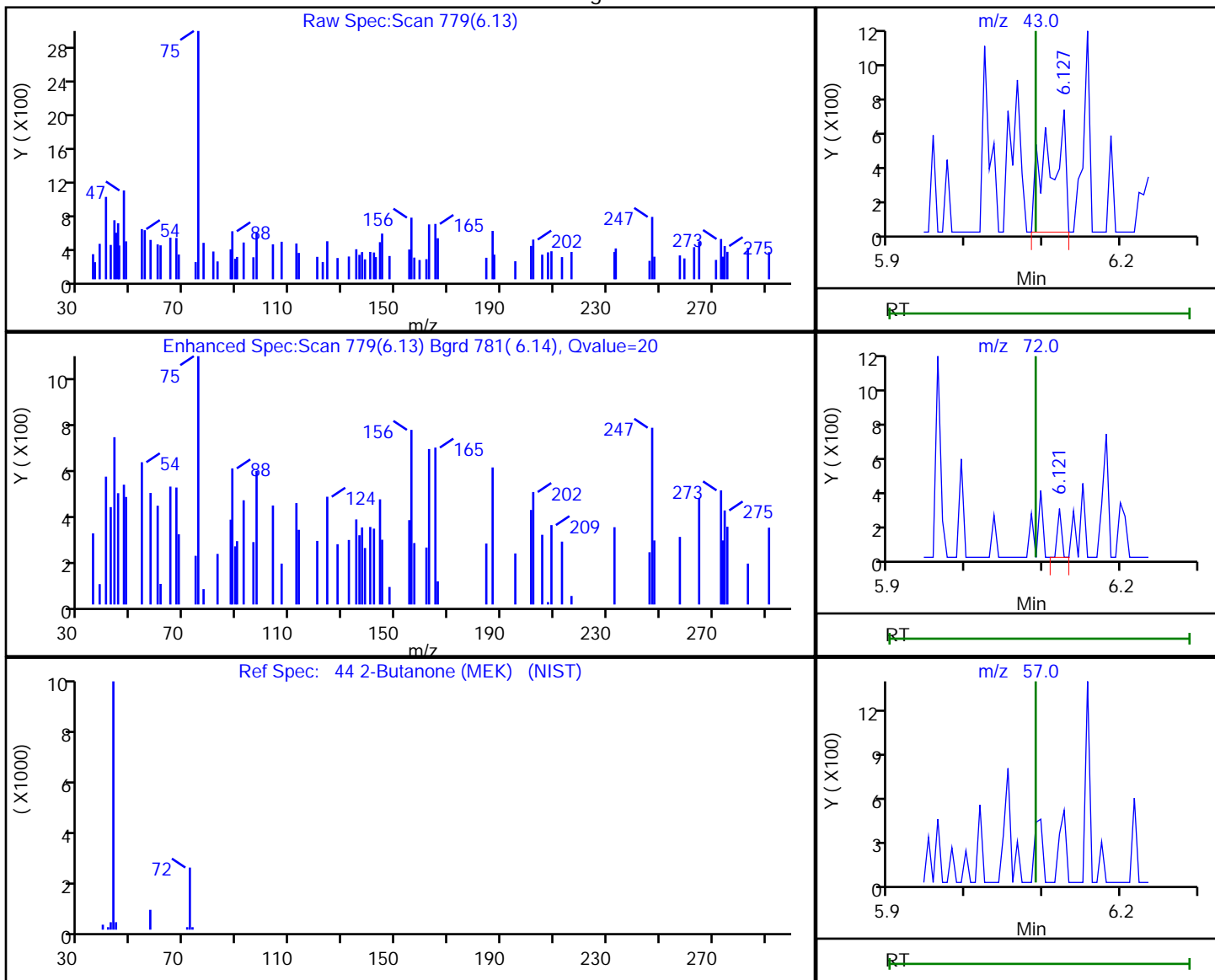
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101910.D
 Injection Date: 19-Oct-2019 17:28:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-2 Lab Sample ID: 180-97133-2
 Client ID: HD-MW-6-0/1-0
 Operator ID: 433269 ALS Bottle#: 4 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

44 2-Butanone (MEK), CAS: 78-93-3

Processing Results



RT	Mass	Response	Amount
6.13	43.00	1107	0.842049
6.12	72.00	98	
6.09	57.00	0	

Reviewer: bowieh, 22-Oct-2019 09:43:45

Audit Action: Marked Compound Undetected

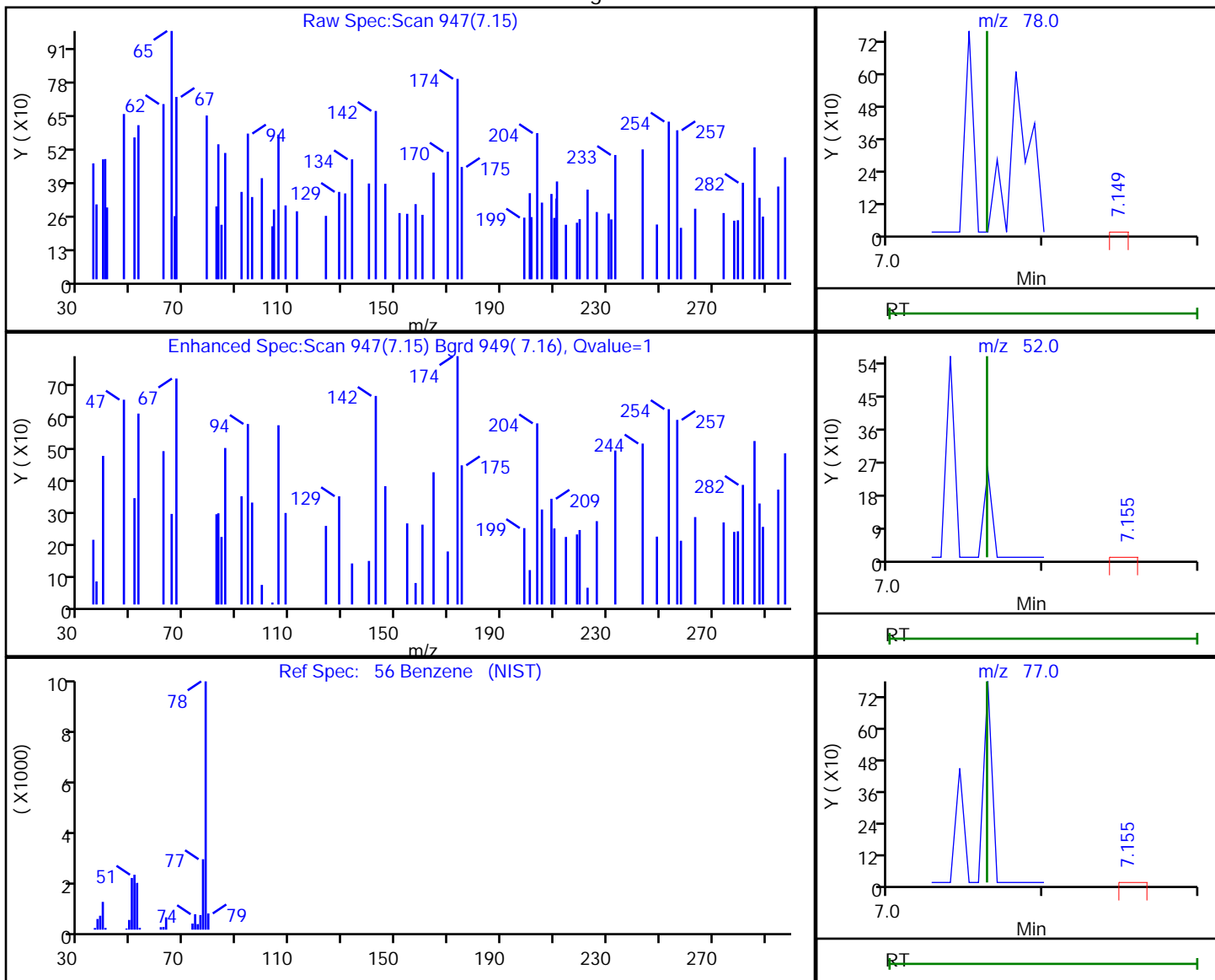
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101910.D
Injection Date: 19-Oct-2019 17:28:30 Instrument ID: CHHP6
Lims ID: 180-97133-A-2 Lab Sample ID: 180-97133-2
Client ID: HD-MW-6-0/1-0
Operator ID: 433269 ALS Bottle#: 4 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

56 Benzene, CAS: 71-43-2

Processing Results



RT	Mass	Response	Amount
7.15	78.00	234	0.024206
7.16	52.00	539	
7.16	77.00	240	

Reviewer: bowieh, 22-Oct-2019 09:43:51

Audit Action: Marked Compound Undetected

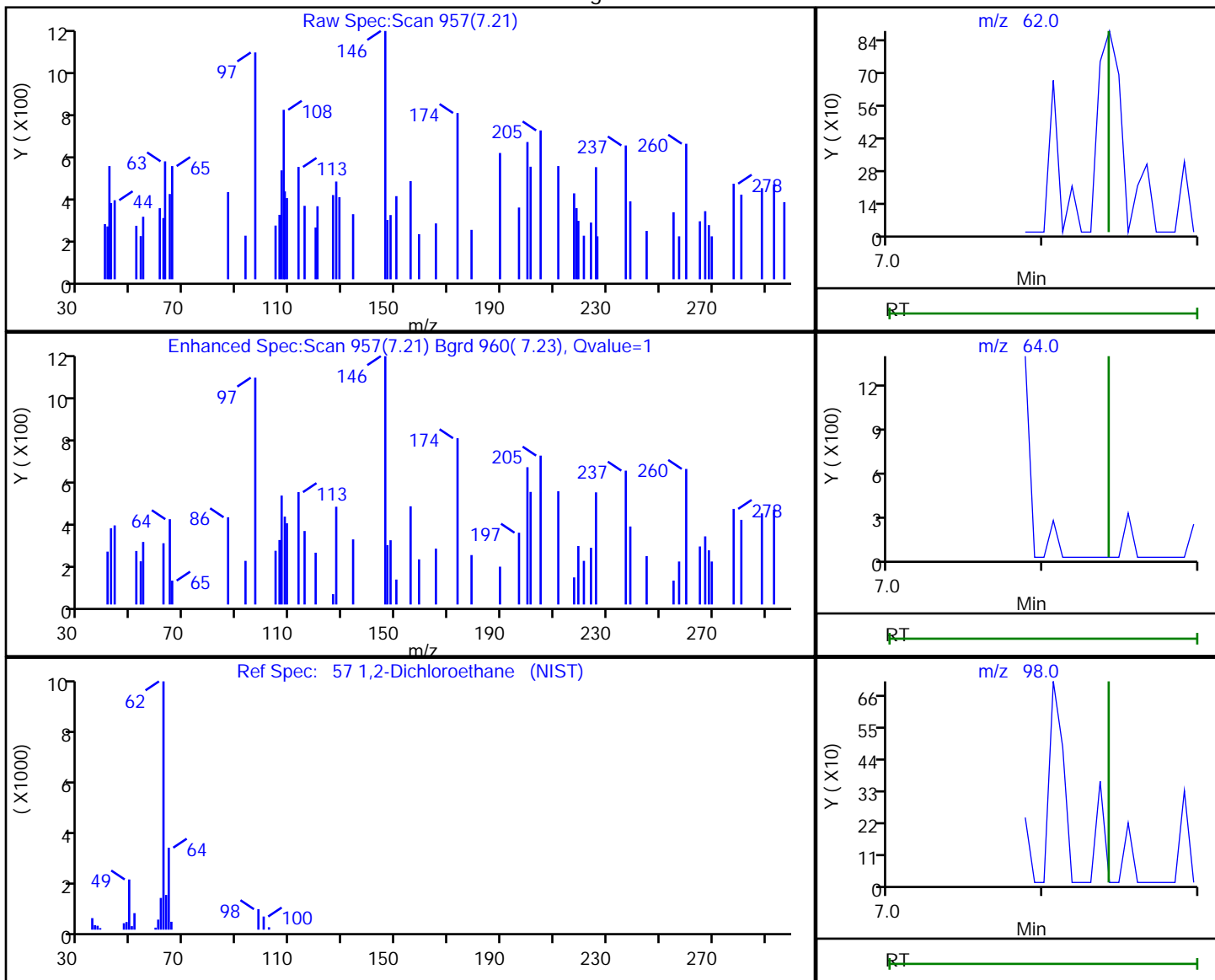
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101910.D
 Injection Date: 19-Oct-2019 17:28:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-2 Lab Sample ID: 180-97133-2
 Client ID: HD-MW-6-0/1-0
 Operator ID: 433269 ALS Bottle#: 4 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

57 1,2-Dichloroethane, CAS: 107-06-2

Processing Results



RT	Mass	Response	Amount
7.21	62.00	445	0.101595
7.21	64.00	145	
7.22	98.00	221	

Reviewer: bowieh, 22-Oct-2019 09:43:52

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

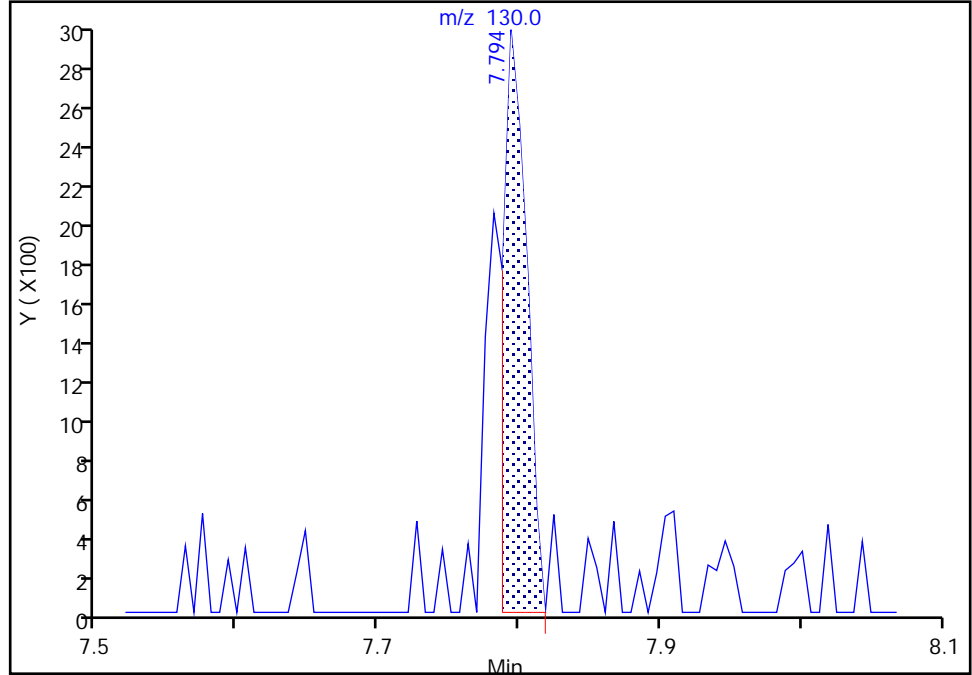
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Injection Date: 19-Oct-2019 17:28:30 Instrument ID: CHHP6
Lims ID: 180-97133-A-2 Lab Sample ID: 180-97133-2
Client ID: HD-MW-6-0/1-0
Operator ID: 433269 ALS Bottle#: 4 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

61 Trichloroethene, CAS: 79-01-6

Signal: 1

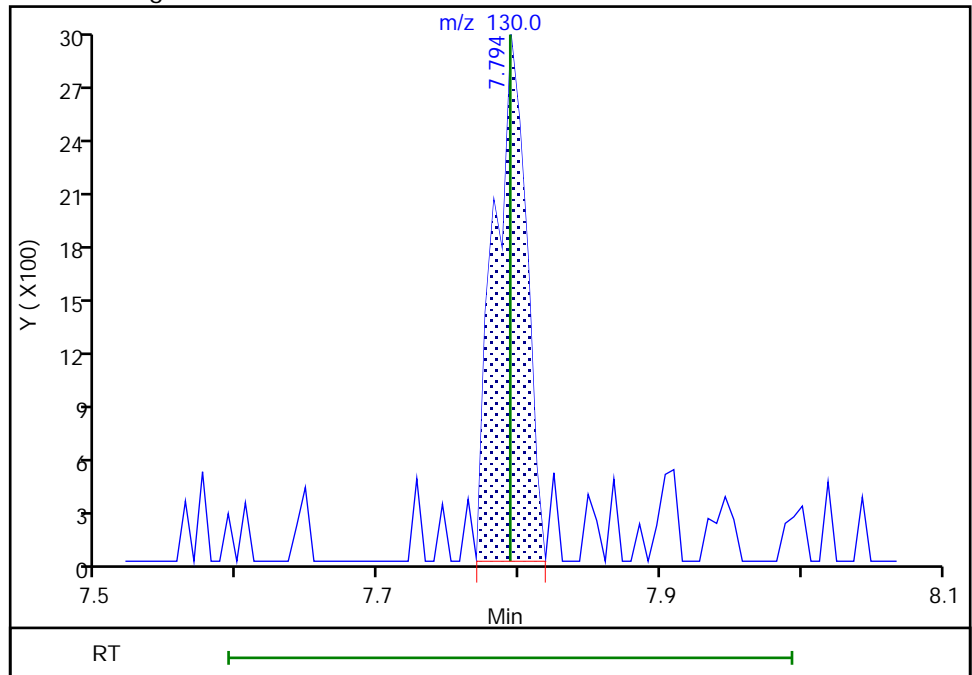
RT: 7.79
Area: 3454
Amount: 1.155183
Amount Units: ng

Processing Integration Results



RT: 7.79
Area: 4715
Amount: 1.576922
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 22-Oct-2019 09:44:02
Audit Action: Manually Integrated

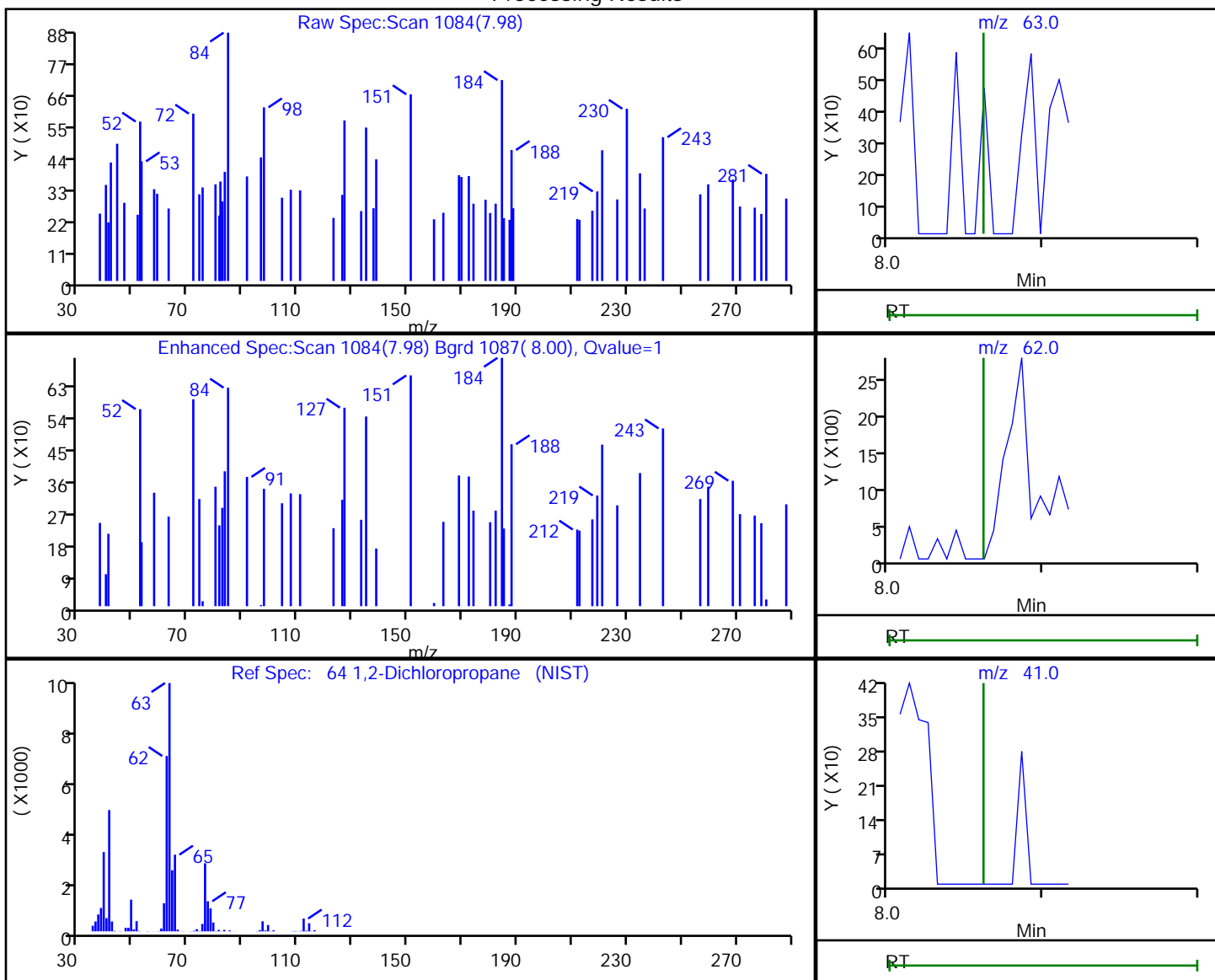
Audit Reason: Incomplete Integration
Page 155 of 638

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101910.D
 Injection Date: 19-Oct-2019 17:28:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-2 Lab Sample ID: 180-97133-2
 Client ID: HD-MW-6-0/1-0
 Operator ID: 433269 ALS Bottle#: 4 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

64 1,2-Dichloropropane, CAS: 78-87-5

Processing Results



RT	Mass	Response	Amount
7.98	63.00	168	0.072823
7.99	62.00	259	
7.98	41.00	303	

Reviewer: bowieh, 22-Oct-2019 09:44:04

Audit Action: Marked Compound Undetected

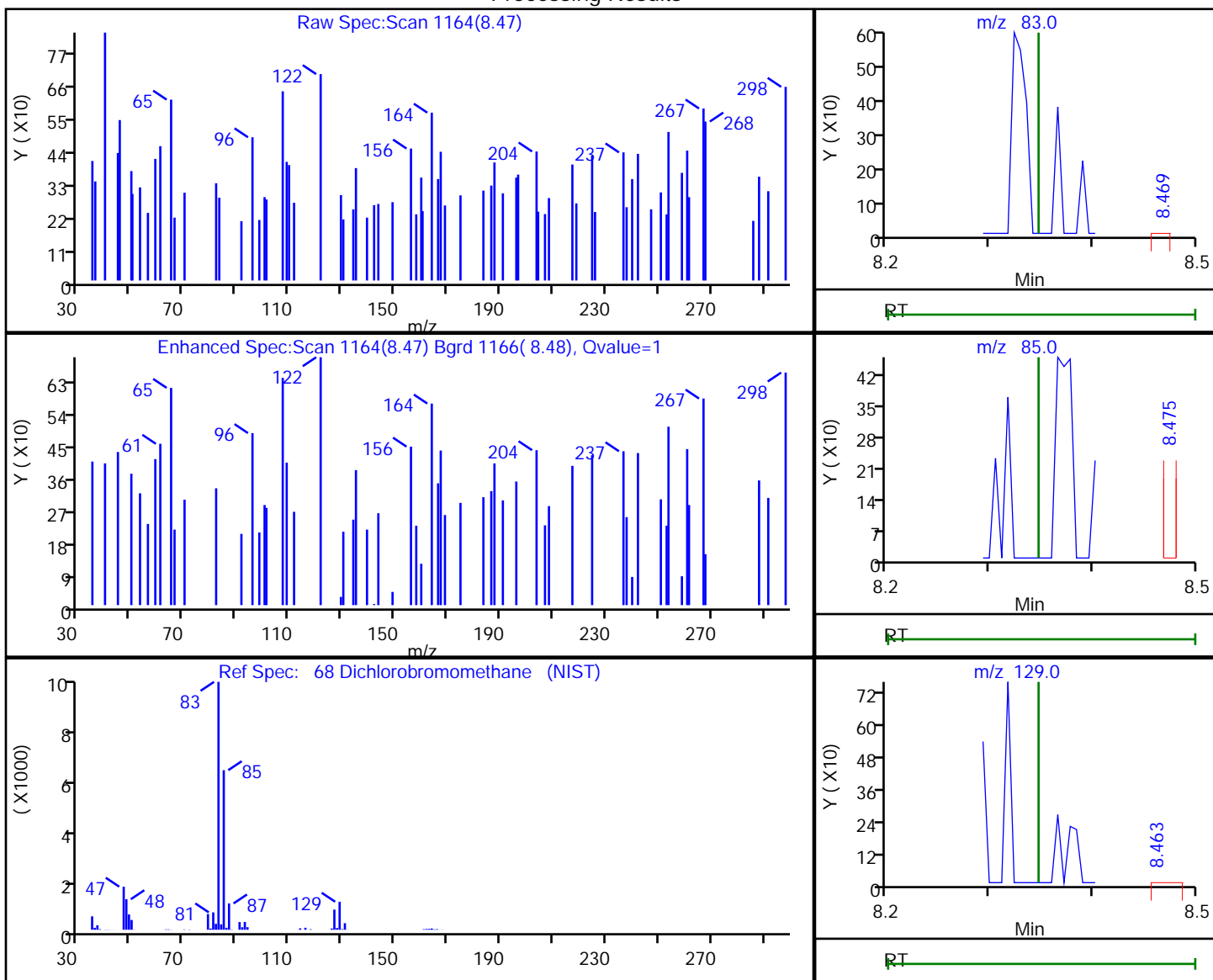
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101910.D
 Injection Date: 19-Oct-2019 17:28:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-2 Lab Sample ID: 180-97133-2
 Client ID: HD-MW-6-0/1-0
 Operator ID: 433269 ALS Bottle#: 4 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

68 Dichlorobromomethane, CAS: 75-27-4

Processing Results



RT	Mass	Response	Amount
8.47	83.00	102	0.034970
8.48	85.00	101	
8.46	129.00	557	

Reviewer: bowieh, 22-Oct-2019 09:44:05

Audit Action: Marked Compound Undetected

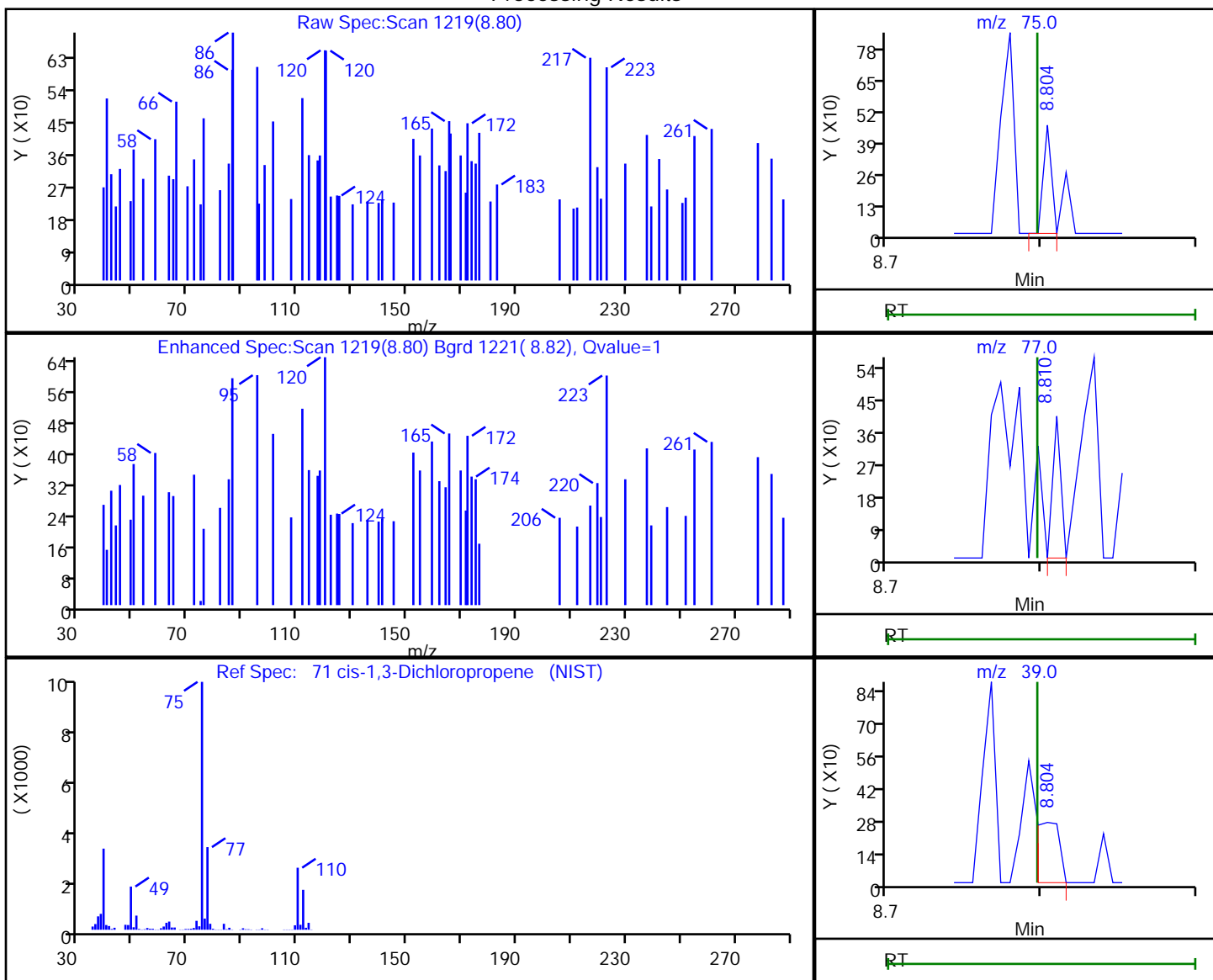
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101910.D
 Injection Date: 19-Oct-2019 17:28:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-2 Lab Sample ID: 180-97133-2
 Client ID: HD-MW-6-0/1-0
 Operator ID: 433269 ALS Bottle#: 4 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

71 cis-1,3-Dichloropropene, CAS: 10061-01-5

Processing Results



RT	Mass	Response	Amount
8.80	75.00	167	0.055469
8.81	77.00	145	
8.80	39.00	281	

Reviewer: bowieh, 22-Oct-2019 09:44:06

Audit Action: Marked Compound Undetected

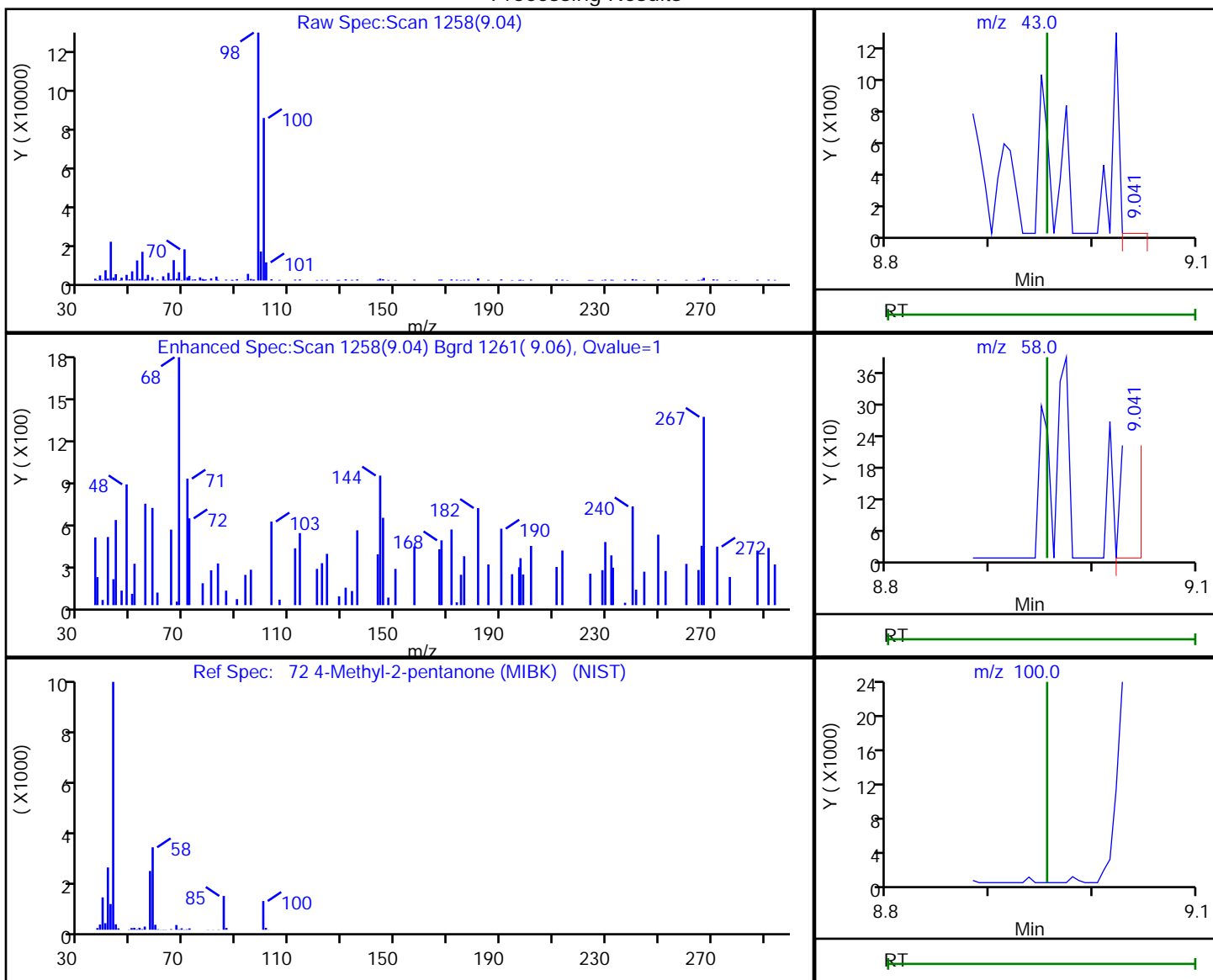
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101910.D
 Injection Date: 19-Oct-2019 17:28:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-2 Lab Sample ID: 180-97133-2
 Client ID: HD-MW-6-0/1-0
 Operator ID: 433269 ALS Bottle#: 4 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

72 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
9.04	43.00	1027	0.529778
9.04	58.00	1490	
9.05	100.00	285994	

Reviewer: bowieh, 22-Oct-2019 09:44:08

Audit Action: Marked Compound Undetected

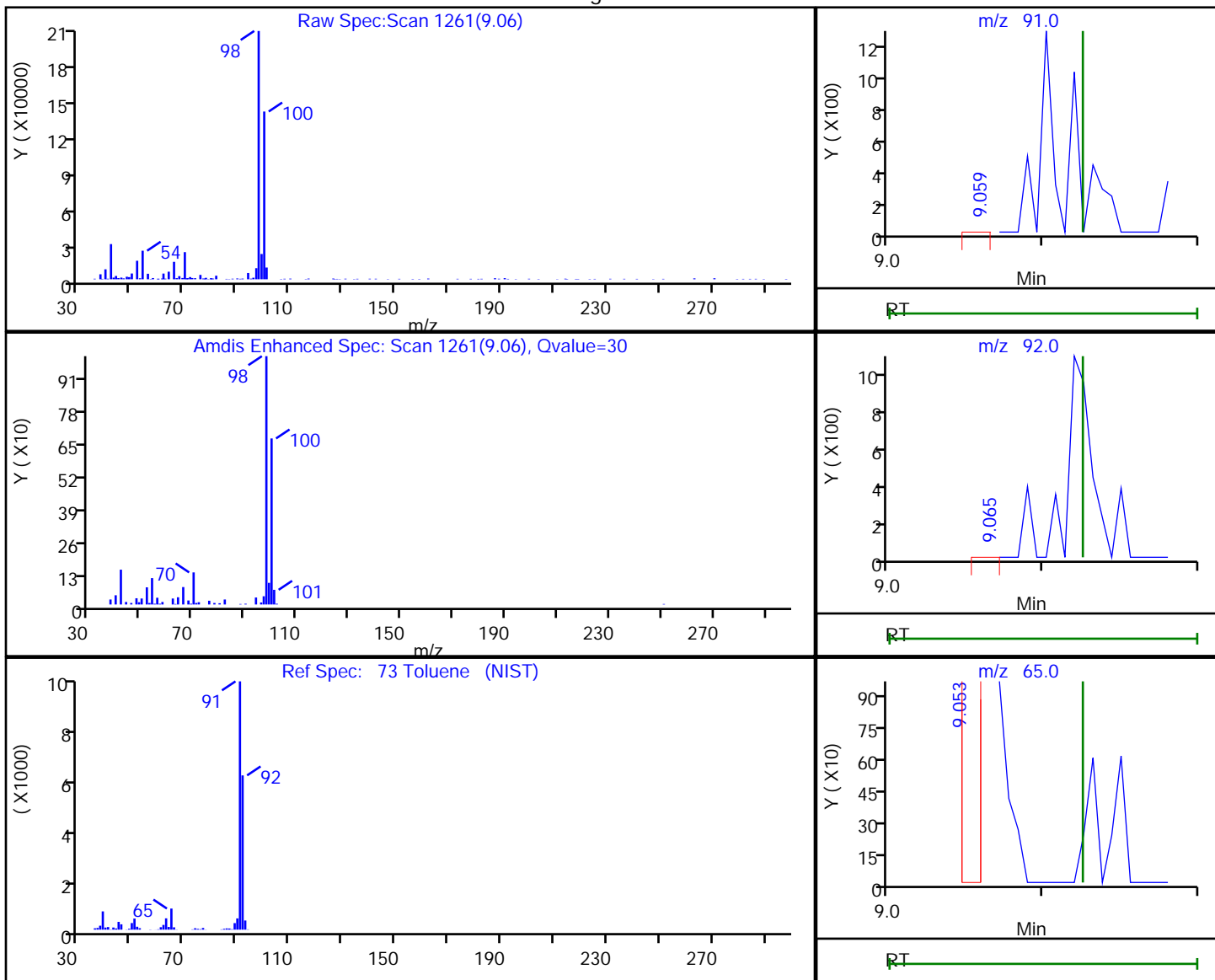
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101910.D
 Injection Date: 19-Oct-2019 17:28:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-2 Lab Sample ID: 180-97133-2
 Client ID: HD-MW-6-0/1-0
 Operator ID: 433269 ALS Bottle#: 4 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

73 Toluene, CAS: 108-88-3

Processing Results



RT	Mass	Response	Amount
9.06	91.00	227	0.022065
9.07	92.00	405	
9.05	65.00	335	

Reviewer: bowieh, 22-Oct-2019 09:44:09

Audit Action: Marked Compound Undetected

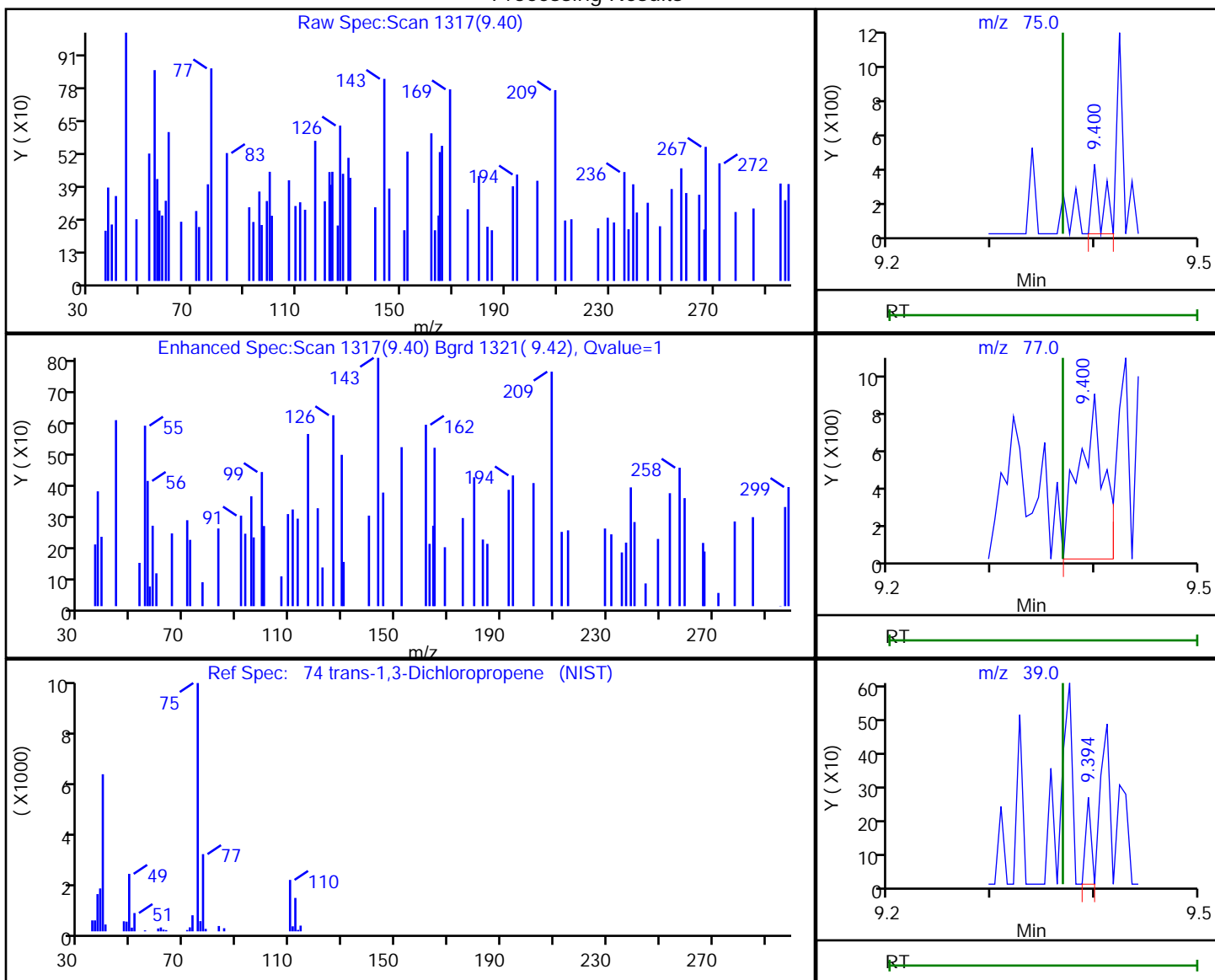
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101910.D
 Injection Date: 19-Oct-2019 17:28:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-2 Lab Sample ID: 180-97133-2
 Client ID: HD-MW-6-0/1-0
 Operator ID: 433269 ALS Bottle#: 4 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

74 trans-1,3-Dichloropropene, CAS: 10061-02-6

Processing Results



RT	Mass	Response	Amount
9.40	75.00	248	1.842432
9.40	77.00	1406	
9.39	39.00	95	

Reviewer: bowieh, 22-Oct-2019 09:44:10

Audit Action: Marked Compound Undetected

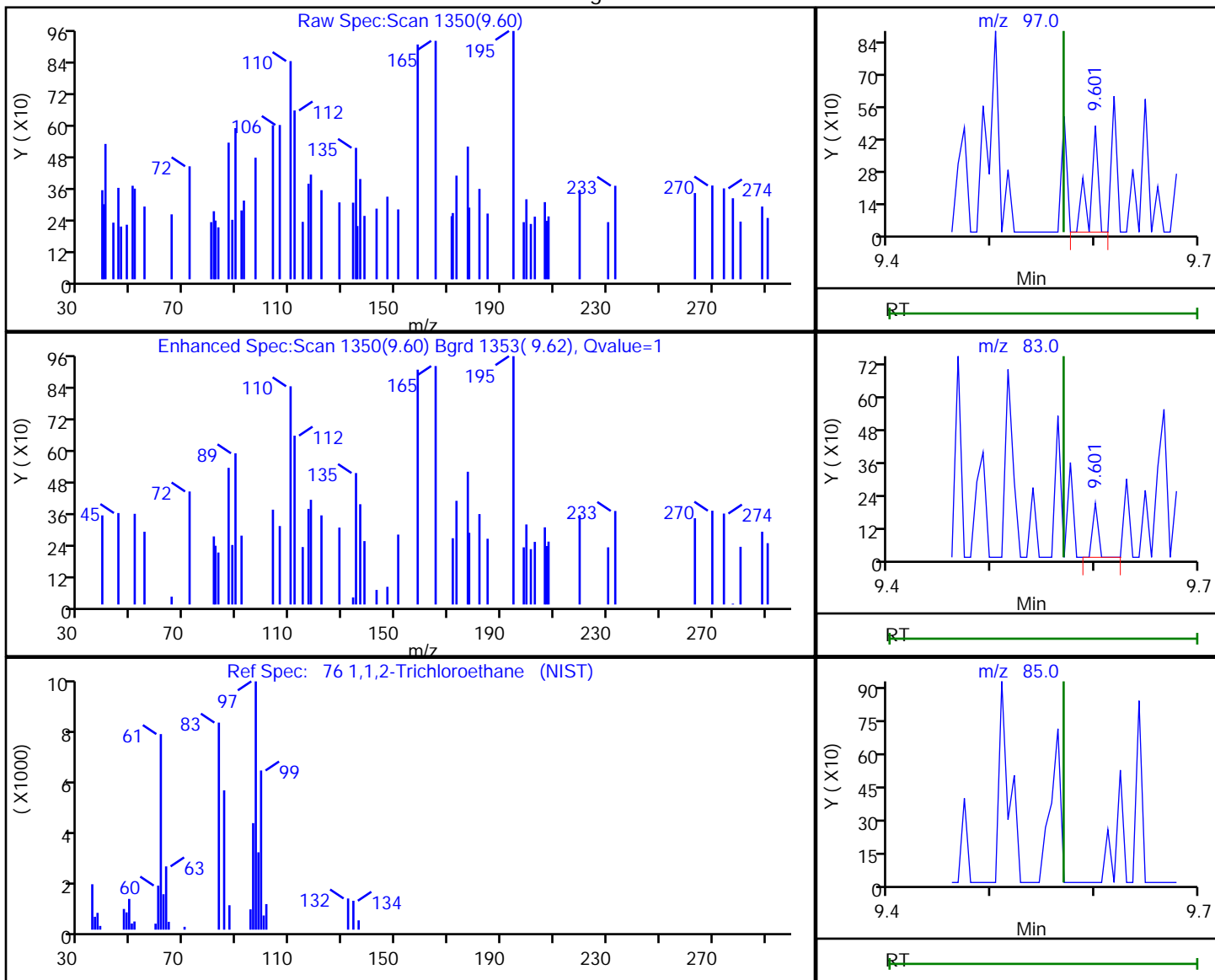
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101910.D
Injection Date: 19-Oct-2019 17:28:30 Instrument ID: CHHP6
Lims ID: 180-97133-A-2 Lab Sample ID: 180-97133-2
Client ID: HD-MW-6-0/1-0
Operator ID: 433269 ALS Bottle#: 4 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

76 1,1,2-Trichloroethane, CAS: 79-00-5

Processing Results



RT	Mass	Response	Amount
9.60	97.00	258	0.135907
9.60	83.00	73	
9.57	85.00	0	

Reviewer: bowieh, 22-Oct-2019 09:44:11

Audit Action: Marked Compound Undetected

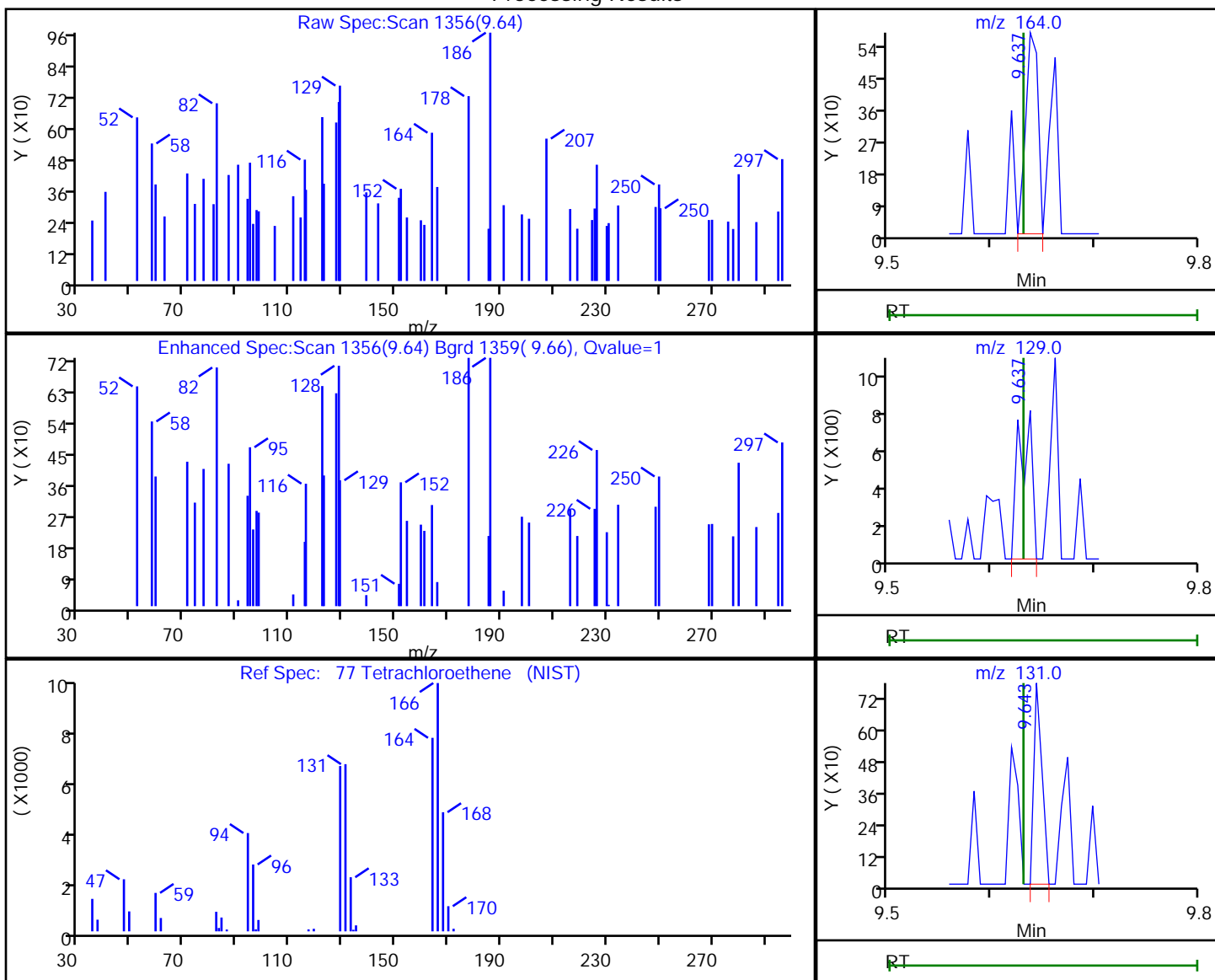
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101910.D
 Injection Date: 19-Oct-2019 17:28:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-2 Lab Sample ID: 180-97133-2
 Client ID: HD-MW-6-0/1-0
 Operator ID: 433269 ALS Bottle#: 4 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

77 Tetrachloroethene, CAS: 127-18-4

Processing Results



RT	Mass	Response	Amount
9.64	164.00	486	0.224620
9.64	129.00	673	
9.64	131.00	429	

Reviewer: bowieh, 22-Oct-2019 09:44:12

Audit Action: Marked Compound Undetected

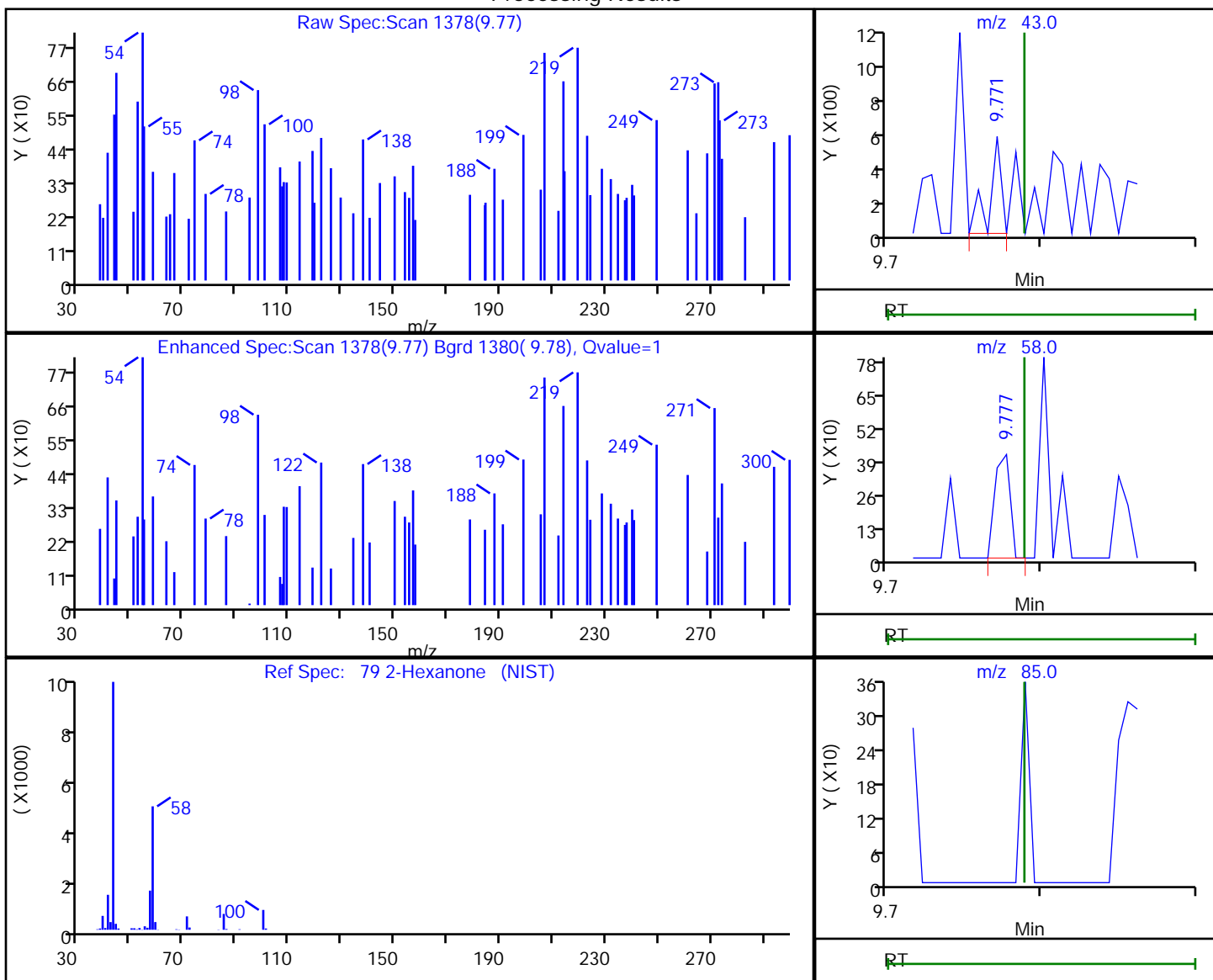
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101910.D
 Injection Date: 19-Oct-2019 17:28:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-2 Lab Sample ID: 180-97133-2
 Client ID: HD-MW-6-0/1-0
 Operator ID: 433269 ALS Bottle#: 4 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

79 2-Hexanone, CAS: 591-78-6

Processing Results



RT	Mass	Response	Amount
9.77	43.00	290	0.182088
9.78	58.00	281	
9.79	85.00	0	

Reviewer: bowieh, 22-Oct-2019 09:44:13

Audit Action: Marked Compound Undetected

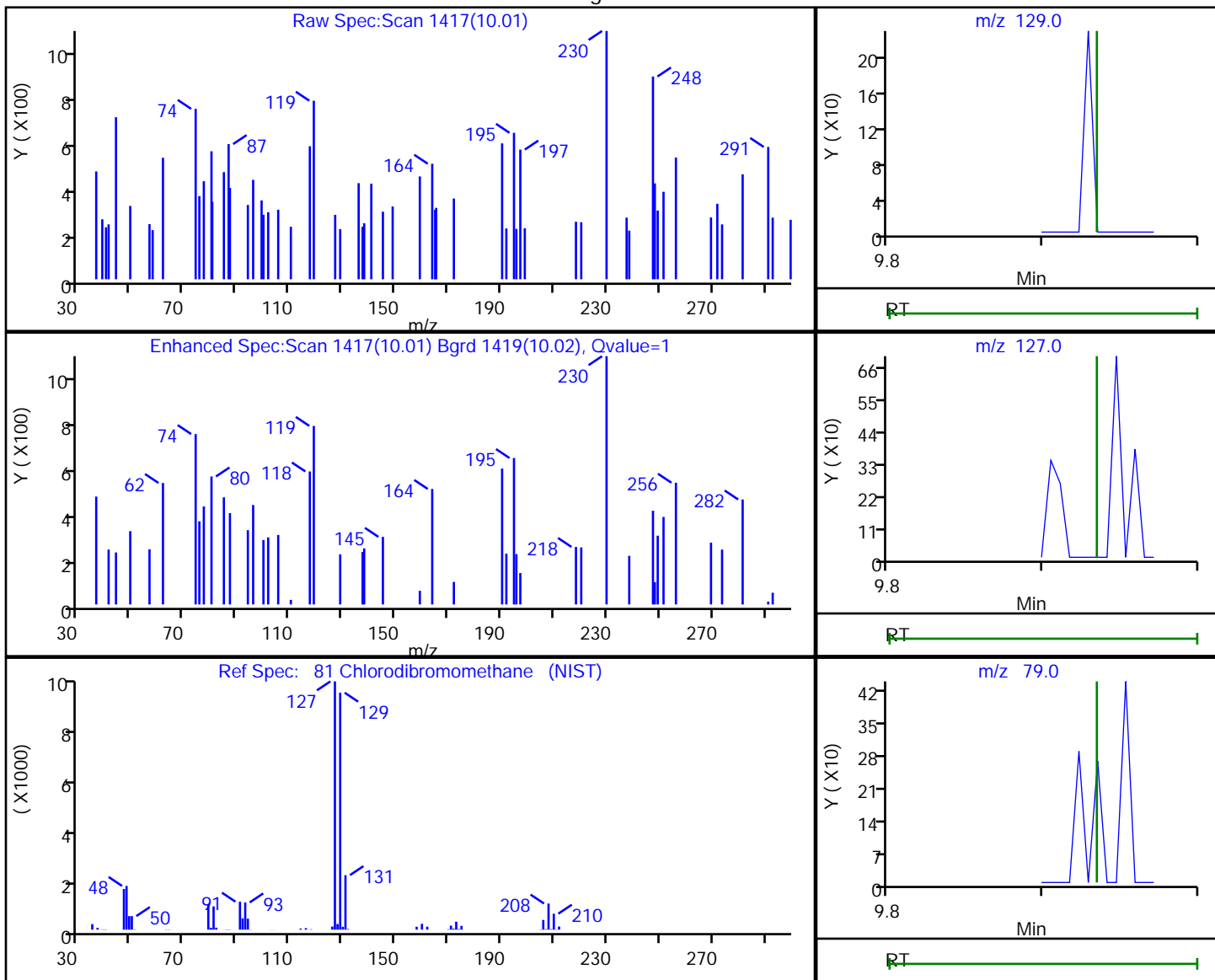
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101910.D
 Injection Date: 19-Oct-2019 17:28:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-2 Lab Sample ID: 180-97133-2
 Client ID: HD-MW-6-0/1-0
 Operator ID: 433269 ALS Bottle#: 4 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

81 Chlorodibromomethane, CAS: 124-48-1

Processing Results



RT	Mass	Response	Amount
10.01	129.00	76	0.041026
10.01	127.00	98	
10.00	79.00	88	

Reviewer: bowieh, 22-Oct-2019 09:44:14

Audit Action: Marked Compound Undetected

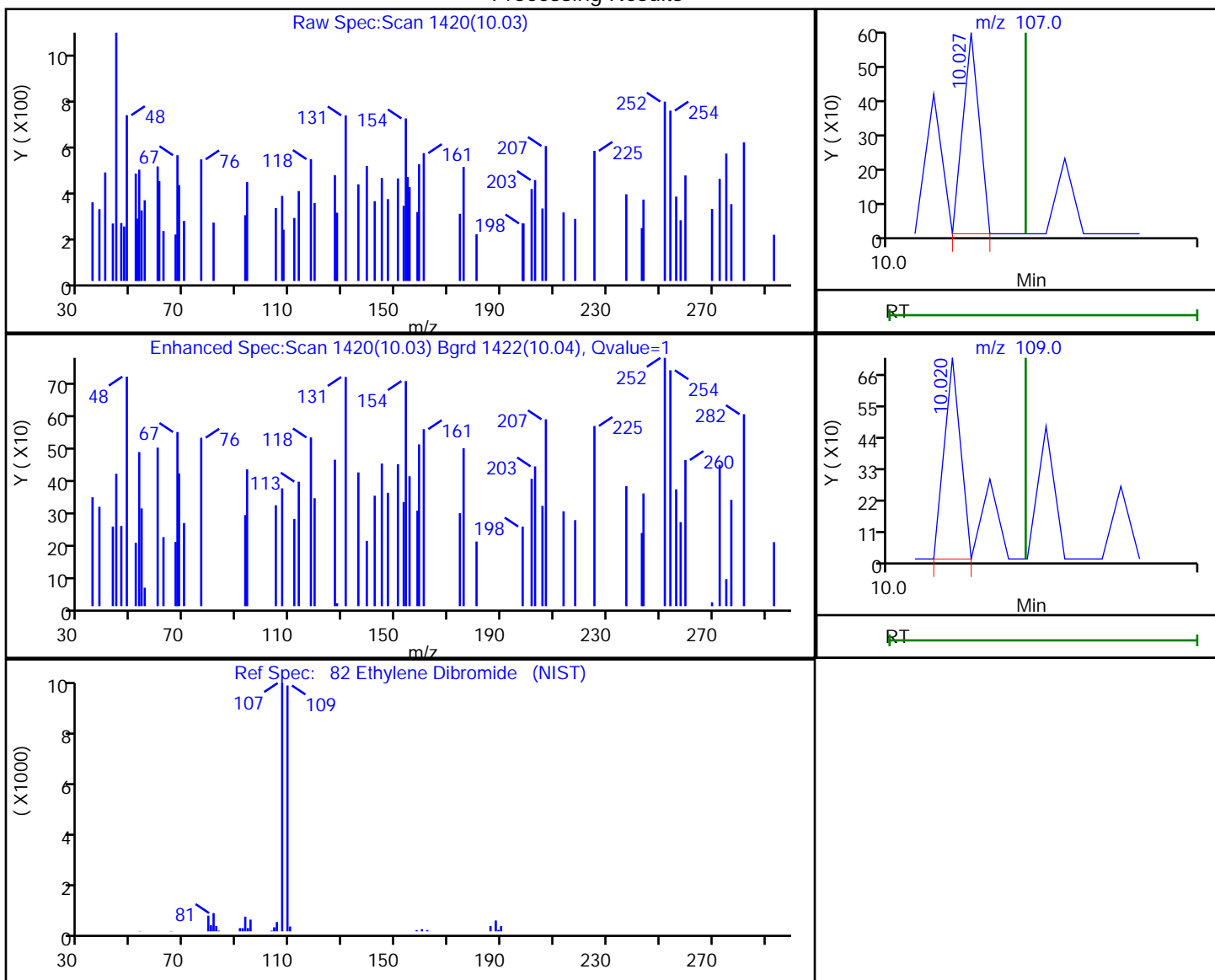
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101910.D
 Injection Date: 19-Oct-2019 17:28:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-2 Lab Sample ID: 180-97133-2
 Client ID: HD-MW-6-0/1-0
 Operator ID: 433269 ALS Bottle#: 4 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

82 Ethylene Dibromide, CAS: 106-93-4

Processing Results



RT	Mass	Response	Amount
10.03	107.00	216	0.111919
10.02	109.00	261	

Reviewer: bowieh, 22-Oct-2019 09:44:16

Audit Action: Marked Compound Undetected

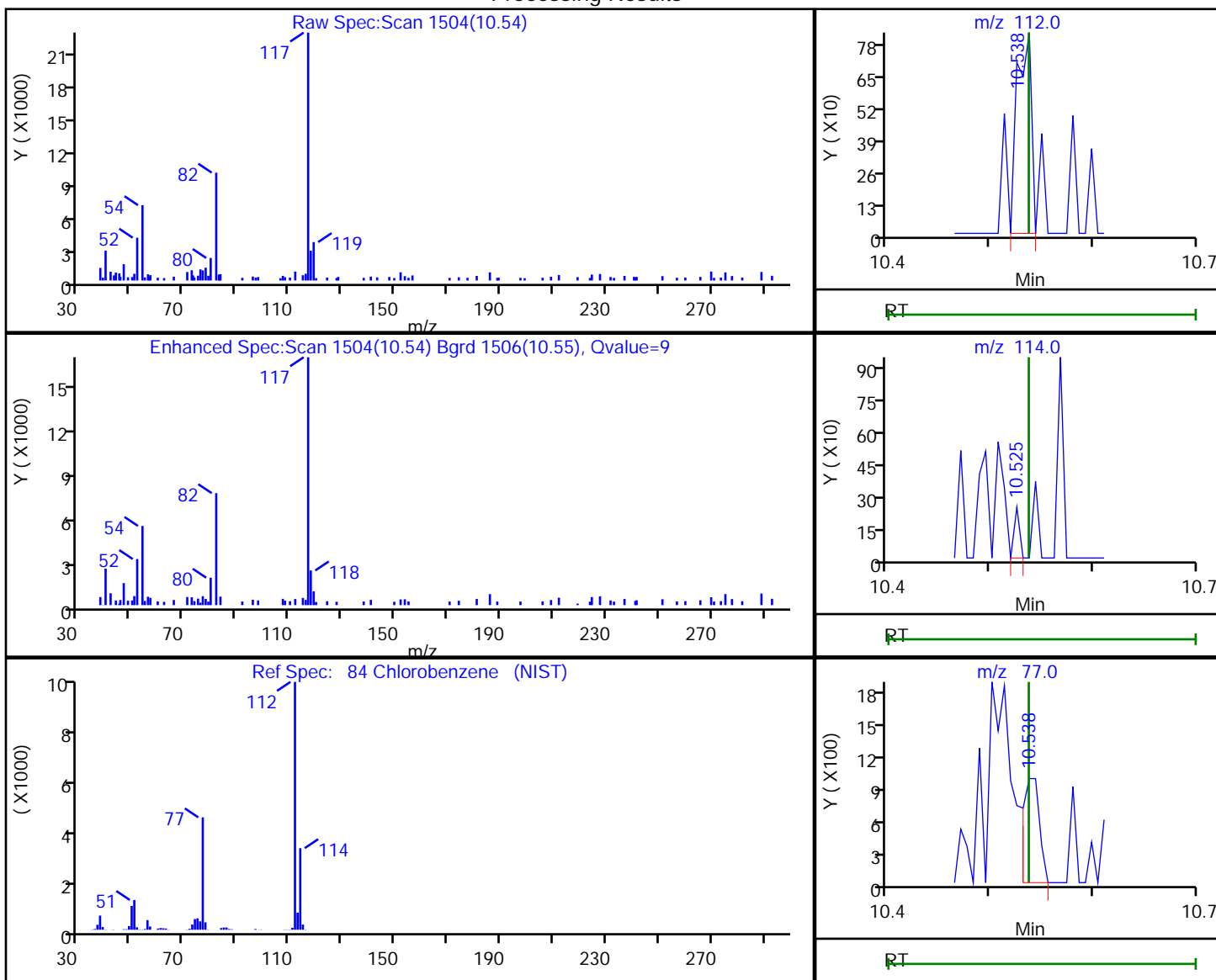
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101910.D
 Injection Date: 19-Oct-2019 17:28:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-2 Lab Sample ID: 180-97133-2
 Client ID: HD-MW-6-0/1-0
 Operator ID: 433269 ALS Bottle#: 4 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

84 Chlorobenzene, CAS: 108-90-7

Processing Results



RT	Mass	Response	Amount
10.54	112.00	792	0.115967
10.53	114.00	88	
10.54	77.00	1046	

Reviewer: bowieh, 22-Oct-2019 09:44:17

Audit Action: Marked Compound Undetected

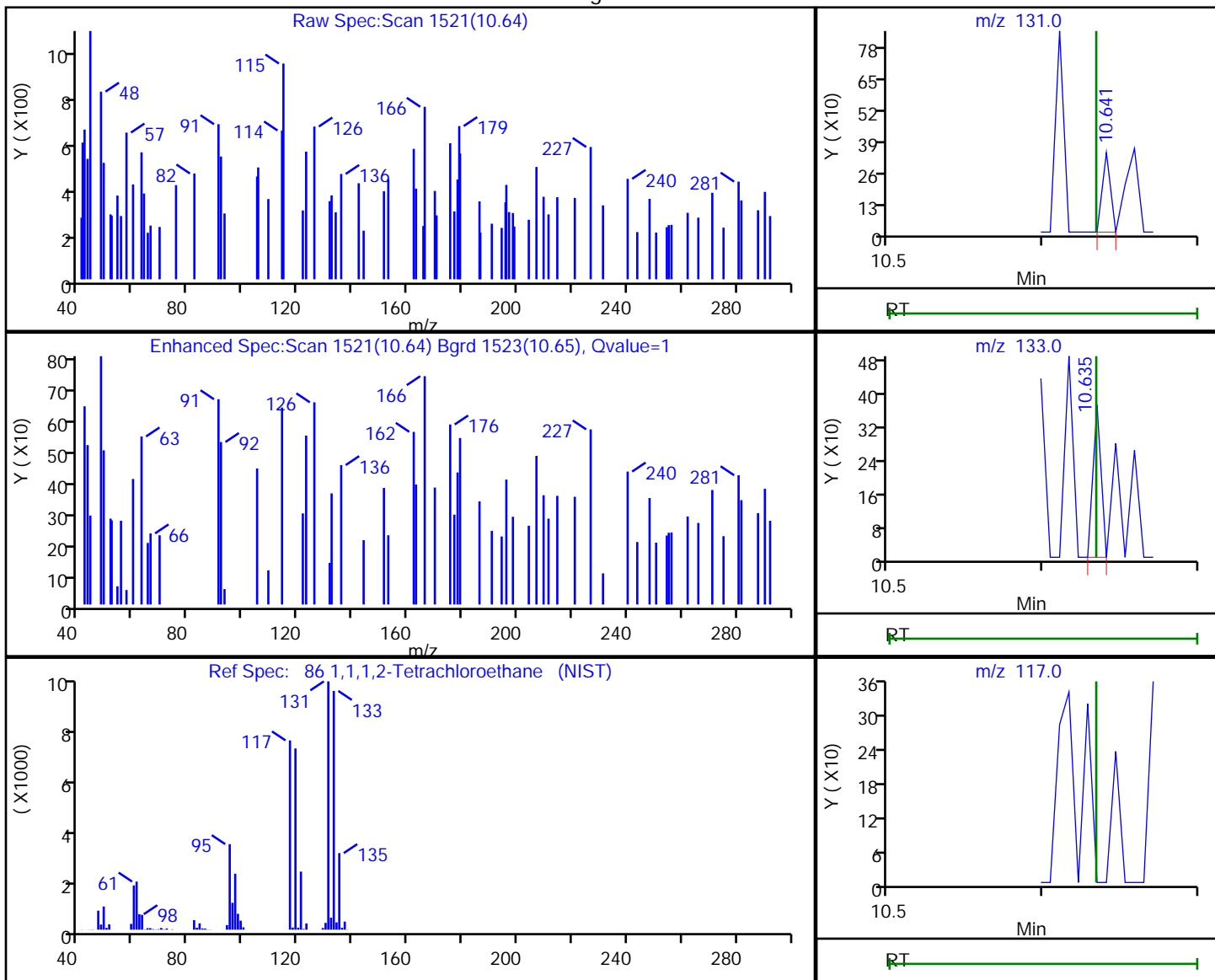
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101910.D
 Injection Date: 19-Oct-2019 17:28:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-2 Lab Sample ID: 180-97133-2
 Client ID: HD-MW-6-0/1-0
 Operator ID: 433269 ALS Bottle#: 4 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

86 1,1,1,2-Tetrachloroethane, CAS: 630-20-6

Processing Results



RT	Mass	Response	Amount
10.64	131.00	123	0.056256
10.63	133.00	135	
10.63	117.00	0	

Reviewer: bowieh, 22-Oct-2019 09:44:19

Audit Action: Marked Compound Undetected

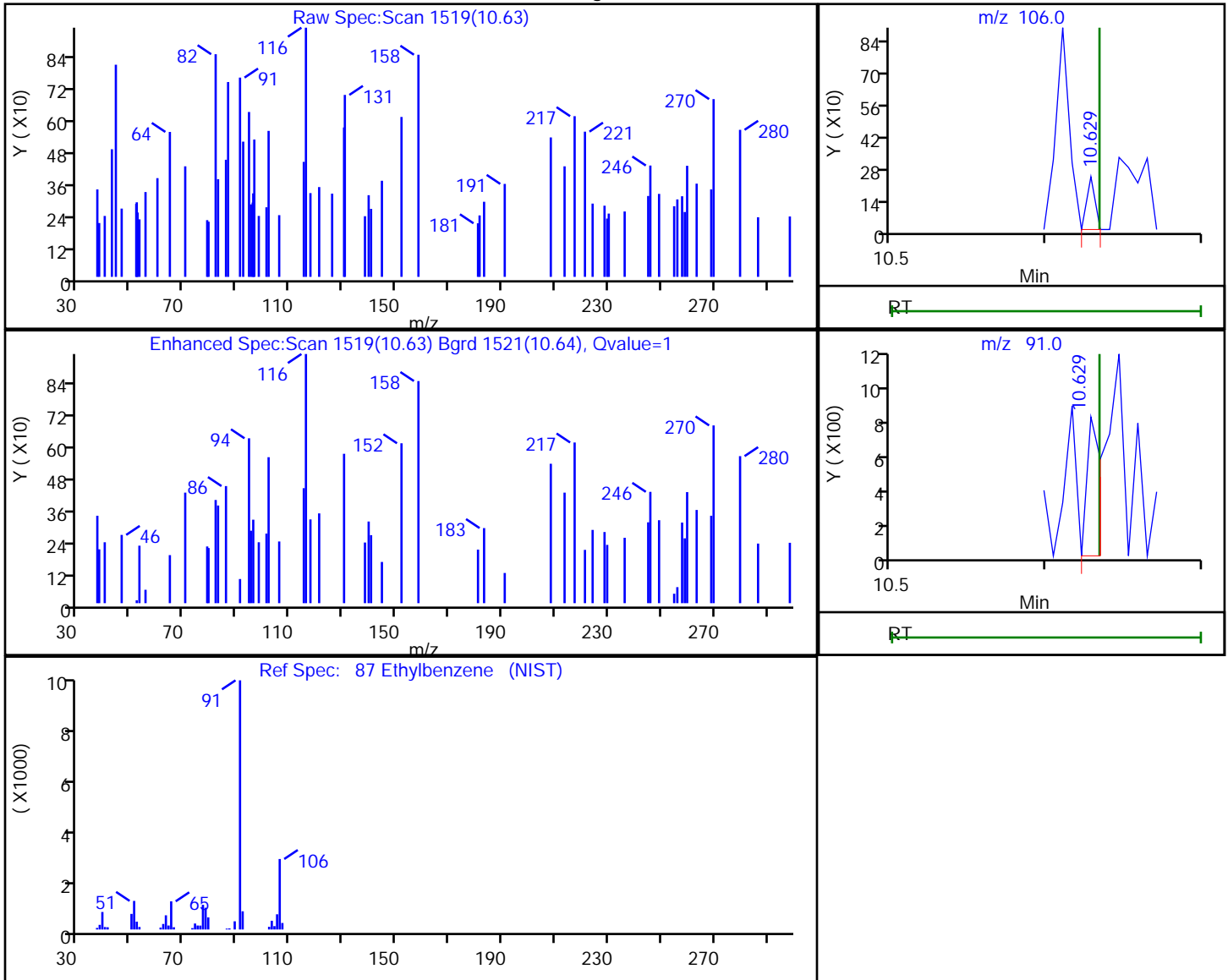
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101910.D
Injection Date: 19-Oct-2019 17:28:30 Instrument ID: CHHP6
Lims ID: 180-97133-A-2 Lab Sample ID: 180-97133-2
Client ID: HD-MW-6-0/1-0
Operator ID: 433269 ALS Bottle#: 4 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

87 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
10.63	106.00	86	0.021484
10.63	91.00	470	

Reviewer: bowieh, 22-Oct-2019 09:44:18

Audit Action: Marked Compound Undetected

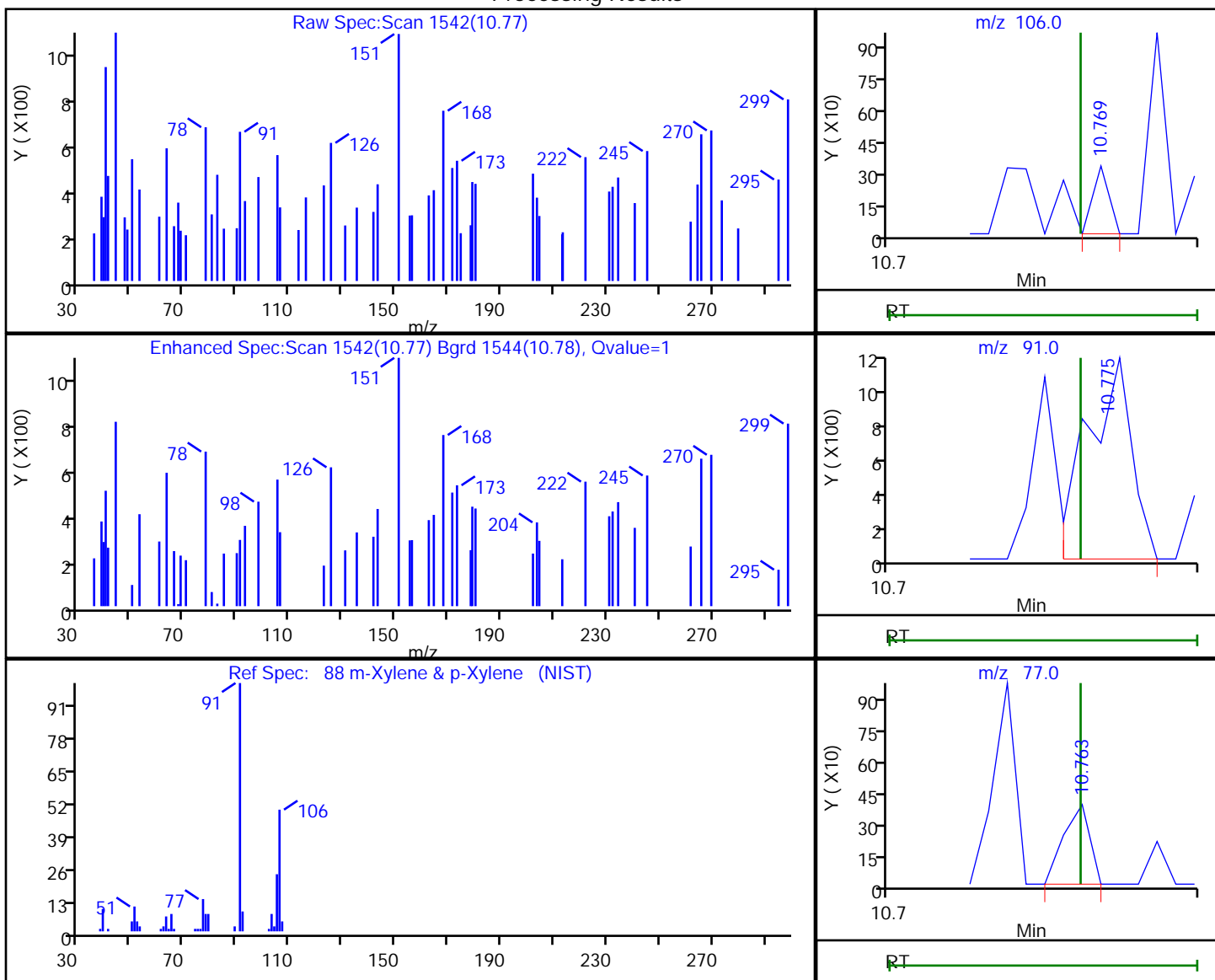
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101910.D
 Injection Date: 19-Oct-2019 17:28:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-2 Lab Sample ID: 180-97133-2
 Client ID: HD-MW-6-0/1-0
 Operator ID: 433269 ALS Bottle#: 4 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

88 m-Xylene & p-Xylene, CAS: 179601-23-1

Processing Results



RT	Mass	Response	Amount
10.77	106.00	119	0.024344
10.77	91.00	1161	
10.76	77.00	228	

Reviewer: bowieh, 22-Oct-2019 09:44:20

Audit Action: Marked Compound Undetected

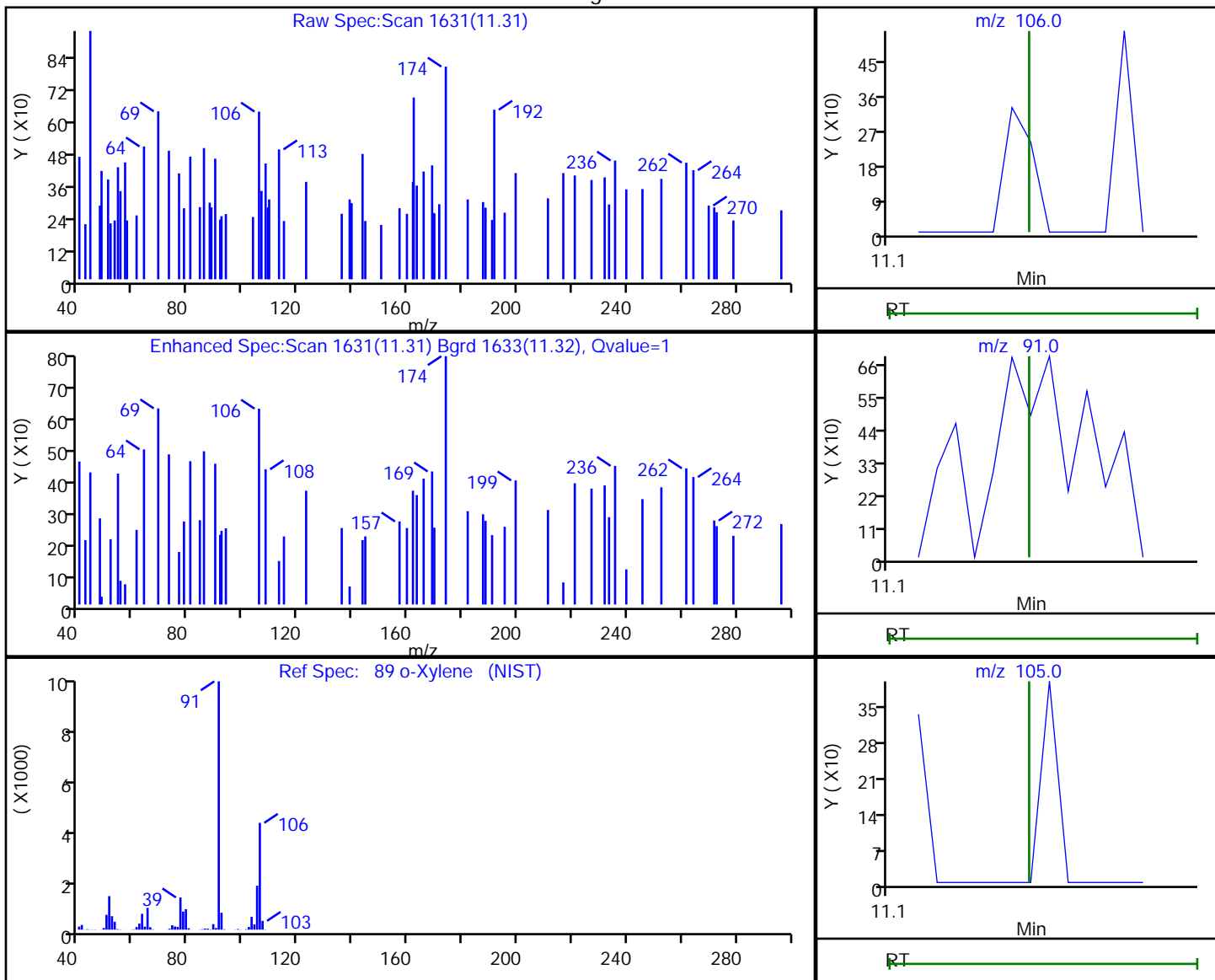
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101910.D
 Injection Date: 19-Oct-2019 17:28:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-2 Lab Sample ID: 180-97133-2
 Client ID: HD-MW-6-0/1-0
 Operator ID: 433269 ALS Bottle#: 4 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

89 o-Xylene, CAS: 95-47-6

Processing Results



RT	Mass	Response	Amount
11.31	106.00	351	0.074641
11.30	91.00	172	
11.32	105.00	166	

Reviewer: bowieh, 22-Oct-2019 09:44:21

Audit Action: Marked Compound Undetected

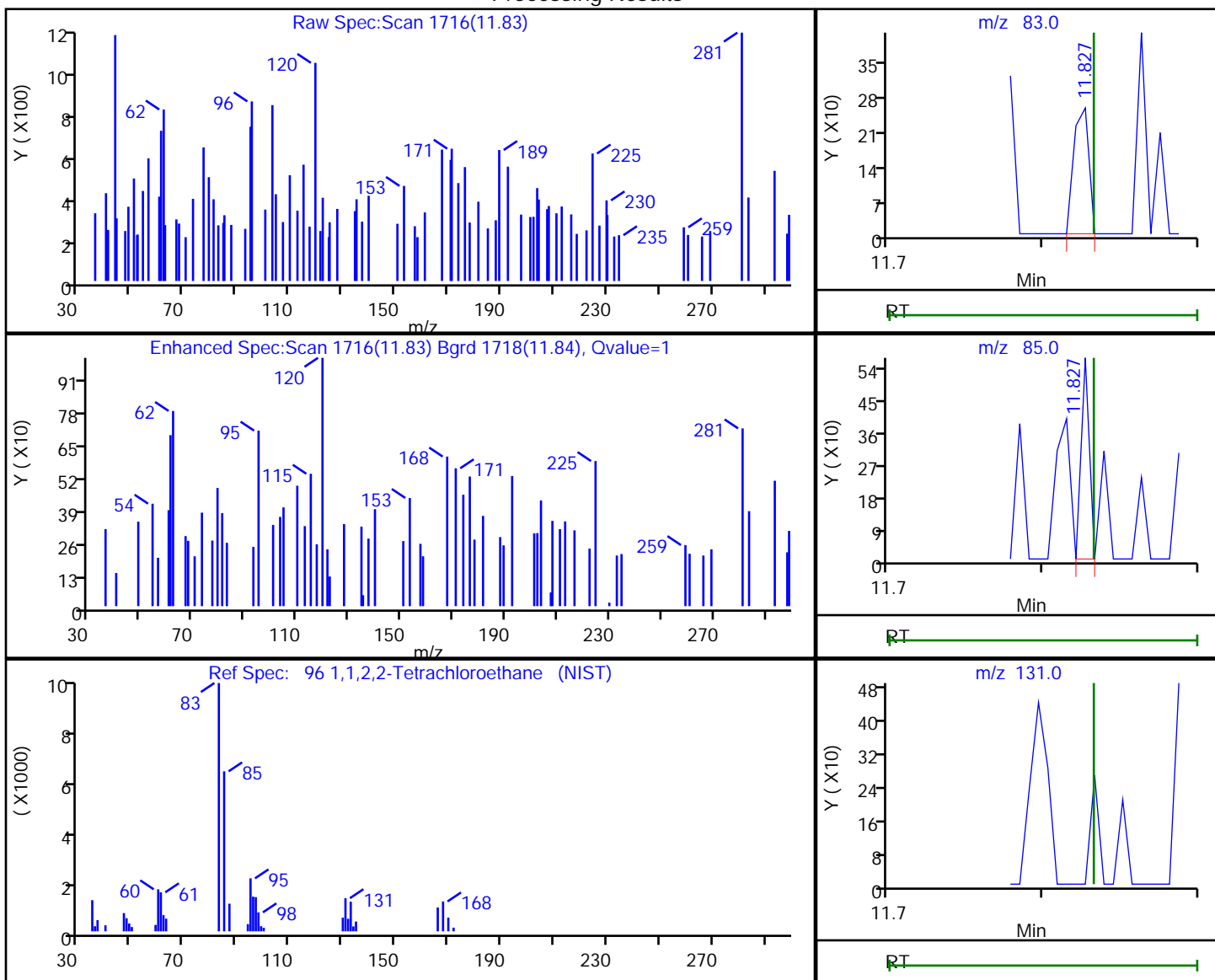
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101910.D
Injection Date: 19-Oct-2019 17:28:30 Instrument ID: CHHP6
Lims ID: 180-97133-A-2 Lab Sample ID: 180-97133-2
Client ID: HD-MW-6-0/1-0
Operator ID: 433269 ALS Bottle#: 4 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

96 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Processing Results



RT	Mass	Response	Amount
11.83	83.00	172	0.085375
11.83	85.00	206	
11.83	131.00	0	

Reviewer: bowieh, 22-Oct-2019 09:44:25

Audit Action: Marked Compound Undetected

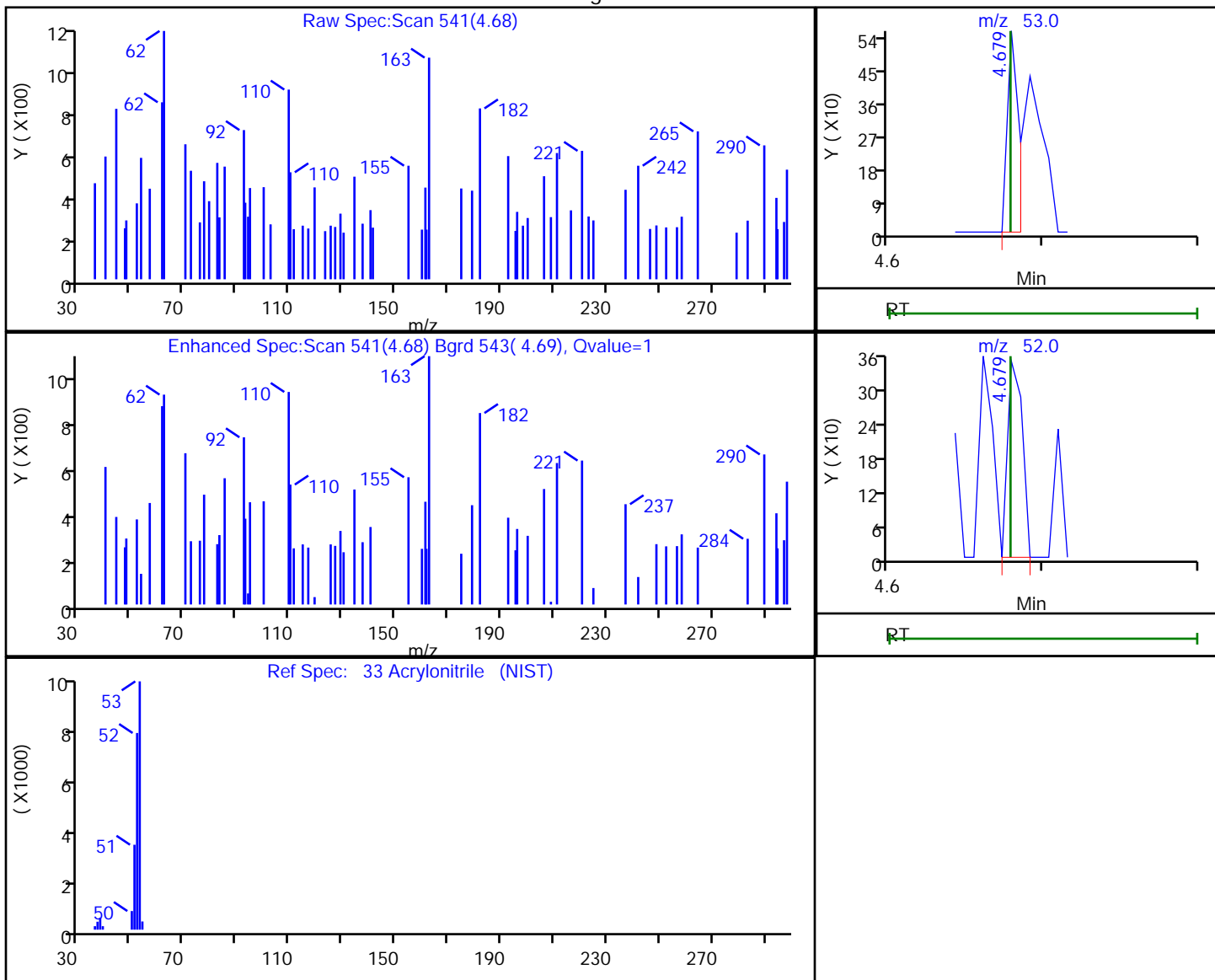
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101910.D
Injection Date: 19-Oct-2019 17:28:30 Instrument ID: CHHP6
Lims ID: 180-97133-A-2 Lab Sample ID: 180-97133-2
Client ID: HD-MW-6-0/1-0
Operator ID: 433269 ALS Bottle#: 4 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

33 Acrylonitrile, CAS: 107-13-1

Processing Results



RT	Mass	Response	Amount
4.68	53.00	293	0.329489
4.68	52.00	230	

Reviewer: bowieh, 22-Oct-2019 09:43:40

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1
 SDG No.: _____
 Client Sample ID: HD-MW-5-0/1-0 Lab Sample ID: 180-97133-3
 Matrix: Water Lab File ID: 6101911.D
 Analysis Method: EPA 8260C Date Collected: 10/09/2019 11:50
 Sample wt/vol: 5 (mL) Date Analyzed: 10/19/2019 17:54
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 295448 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	ND		1.0	0.90
75-01-4	Vinyl chloride	ND		1.0	0.88
74-83-9	Bromomethane	ND		1.0	0.89
75-00-3	Chloroethane	ND		1.0	0.90
75-35-4	1,1-Dichloroethene	ND		1.0	0.55
67-64-1	Acetone	ND		5.0	3.4
75-15-0	Carbon disulfide	ND		1.0	0.88
75-09-2	Methylene Chloride	ND		1.0	0.89
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.67
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.59
75-34-3	1,1-Dichloroethane	ND		1.0	0.63
156-59-2	cis-1,2-Dichloroethene	3.4		1.0	0.71
74-97-5	Bromochloromethane	ND		1.0	0.63
78-93-3	2-Butanone (MEK)	ND		5.0	2.6
67-66-3	Chloroform	ND		1.0	0.60
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.60
56-23-5	Carbon tetrachloride	ND		1.0	0.88
71-43-2	Benzene	ND		1.0	0.60
107-06-2	1,2-Dichloroethane	ND		1.0	0.57
79-01-6	Trichloroethene	ND		1.0	0.69
78-87-5	1,2-Dichloropropane	ND		1.0	0.66
75-27-4	Bromodichloromethane	ND		1.0	0.64
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.59
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	3.1
108-88-3	Toluene	ND		1.0	0.46
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.58
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.45
127-18-4	Tetrachloroethene	ND		1.0	0.47
591-78-6	2-Hexanone	ND		5.0	3.3
124-48-1	Dibromochloromethane	ND		1.0	0.84
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.50
108-90-7	Chlorobenzene	ND		1.0	0.50
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.57
100-41-4	Ethylbenzene	ND		1.0	0.51
1330-20-7	Xylenes, Total	ND		2.0	0.89
100-42-5	Styrene	ND		1.0	0.47

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1
 SDG No.: _____
 Client Sample ID: HD-MW-5-0/1-0 Lab Sample ID: 180-97133-3
 Matrix: Water Lab File ID: 6101911.D
 Analysis Method: EPA 8260C Date Collected: 10/09/2019 11:50
 Sample wt/vol: 5 (mL) Date Analyzed: 10/19/2019 17:54
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 295448 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	ND		1.0	0.98
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.60
107-13-1	Acrylonitrile	ND		20	7.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	112		70-150
2037-26-5	Toluene-d8 (Surr)	104		78-128
460-00-4	4-Bromofluorobenzene (Surr)	104		64-123
1868-53-7	Dibromofluoromethane (Surr)	107		75-147

Eurofins TestAmerica, Pittsburgh
Target Compound Quantitation Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101911.D
 Lims ID: 180-97133-A-3
 Client ID: HD-MW-5-0/1-0
 Sample Type: Client
 Inject. Date: 19-Oct-2019 17:54:30 ALS Bottle#: 5 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-0029191-011
 Misc. Info.: 180-97133-a-3
 Operator ID: 433269 Instrument ID: CHHP6
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C_D ICAL
 Last Update: 22-Oct-2019 09:46:37 Calib Date: 18-Oct-2019 18:47:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101817.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX0302

First Level Reviewer: bowieh

Date: 22-Oct-2019 09:46:37

Compound	Sig	RT (min.)	Exp RT (min.)	Diff RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.417	4.429	-0.012	92	132694	1000.0	
* 2 Fluorobenzene (IS)	96	7.410	7.410	0.000	98	450813	50.0	
* 3 Chlorobenzene-d5	119	10.506	10.513	-0.007	89	112459	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.854	12.855	-0.001	98	154348	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.692	6.686	0.006	93	113568	53.6	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	7.057	7.057	0.000	92	181915	56.2	
\$ 7 Toluene-d8 (Surr)	98	9.052	9.053	-0.001	92	424967	52.0	
\$ 8 4-Bromofluorobenzene (Surr	95	11.692	11.693	-0.001	0	175920	52.1	
12 Chloromethane	50		1.886				ND	U
13 Vinyl chloride	62		2.008				ND	U
15 Bromomethane	94		2.355				ND	U
16 Chloroethane	64		2.495				ND	U
22 1,1-Dichloroethene	96		3.468				ND	U
24 Acetone	43		3.584				ND	U
26 Carbon disulfide	76		3.766				ND	U
31 Methylene Chloride	84		4.289				ND	U
33 Acrylonitrile	53		4.679				ND	U
34 trans-1,2-Dichloroethene	96	4.697	4.709	-0.013	16	2531	0.9739	
35 Methyl tert-butyl ether	73		4.715				ND	U
37 1,1-Dichloroethane	63		5.336				ND	Ua
43 cis-1,2-Dichloroethene	96	6.084	6.078	0.006	85	45363	16.8	
44 2-Butanone (MEK)	43		6.090				ND	U
48 Chlorobromomethane	128		6.358				ND	
50 Chloroform	83	6.515	6.510	0.005	1	1214	0.2590	
51 1,1,1-Trichloroethane	97		6.662				ND	U
53 Carbon tetrachloride	117		6.826				ND	
56 Benzene	78		7.063				ND	
57 1,2-Dichloroethane	62		7.142				ND	U
61 Trichloroethene	130	7.787	7.793	-0.006	50	6098	2.10	
64 1,2-Dichloropropane	63		8.061				ND	
68 Dichlorobromomethane	83		8.347				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
71 cis-1,3-Dichloropropene	75		8.797				ND	U
72 4-Methyl-2-pentanone (MIBK)	43		8.955				ND	U
73 Toluene	91		9.126				ND	U
74 trans-1,3-Dichloropropene	75		9.369				ND	U
76 1,1,2-Trichloroethane	97		9.570				ND	U
77 Tetrachloroethene	164		9.631				ND	U
79 2-Hexanone	43		9.789				ND	U
81 Chlorodibromomethane	129		9.935				ND	U
82 Ethylene Dibromide	107		10.044				ND	U
84 Chlorobenzene	112		10.537				ND	U
87 Ethylbenzene	106		10.634				ND	U
86 1,1,1,2-Tetrachloroethane	131		10.634				ND	U
88 m-Xylene & p-Xylene	106		10.762				ND	U
89 o-Xylene	106		11.145				ND	U
90 Styrene	104		11.170				ND	U
91 Bromoform	173		11.352				ND	U
96 1,1,2,2-Tetrachloroethane	83		11.833				ND	U
S 131 Xylenes, Total	106		1.000				ND	

QC Flag Legend

Review Flags

U - Marked Undetected

a - User Assigned ID

Reagents:

voaWI/SHP5_00014

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101911.D

Injection Date: 19-Oct-2019 17:54:30

Instrument ID: CHHP6

Operator ID: 433269

Lims ID: 180-97133-A-3

Lab Sample ID: 180-97133-3

Worklist Smp#: 11

Client ID: HD-MW-5-0/1-0

Purge Vol: 5.000 mL

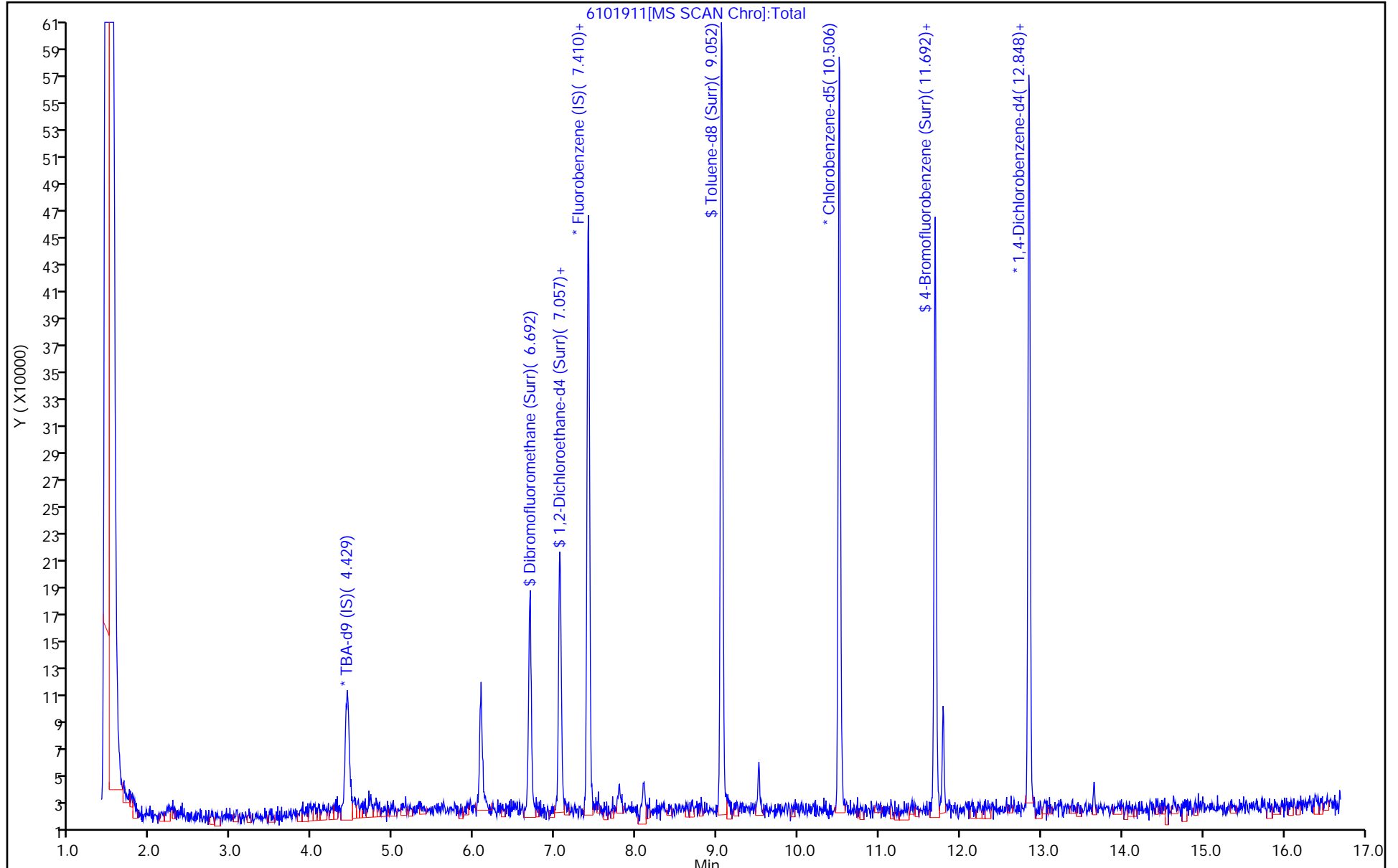
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C_D ICAL

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Pittsburgh
Recovery Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101911.D
 Lims ID: 180-97133-A-3
 Client ID: HD-MW-5-0/1-0
 Sample Type: Client
 Inject. Date: 19-Oct-2019 17:54:30 ALS Bottle#: 5 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-0029191-011
 Misc. Info.: 180-97133-a-3
 Operator ID: 433269 Instrument ID: CHHP6
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C_D ICAL
 Last Update: 22-Oct-2019 09:46:37 Calib Date: 18-Oct-2019 18:47:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101817.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX0302

First Level Reviewer: bowieh

Date: 22-Oct-2019 09:46:37

Compound	Amount Added	Amount Recovered	% Rec.
\$ 5 Dibromofluoromethane (Surr)	50.0	53.6	107.24
\$ 6 1,2-Dichloroethane-d4 (Surr)	50.0	56.2	112.40
\$ 7 Toluene-d8 (Surr)	50.0	52.0	103.91
\$ 8 4-Bromofluorobenzene (Surr)	50.0	52.1	104.18

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101911.D

Injection Date: 19-Oct-2019 17:54:30

Instrument ID: CHHP6

Lims ID: 180-97133-A-3

Lab Sample ID: 180-97133-3

Client ID: HD-MW-5-0/1-0

Operator ID: 433269

ALS Bottle#: 5

Worklist Smp#: 11

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

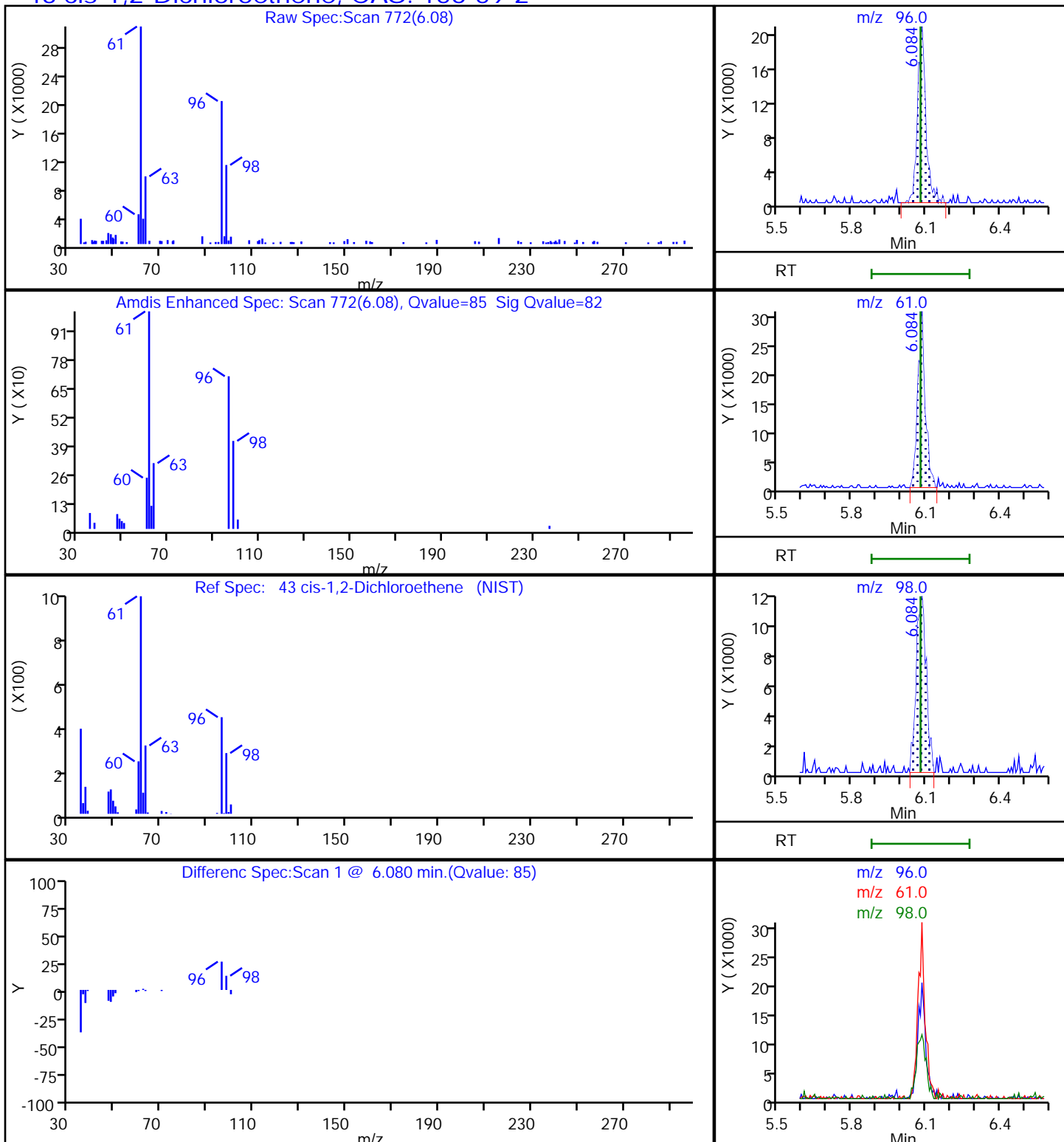
Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C_D ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

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

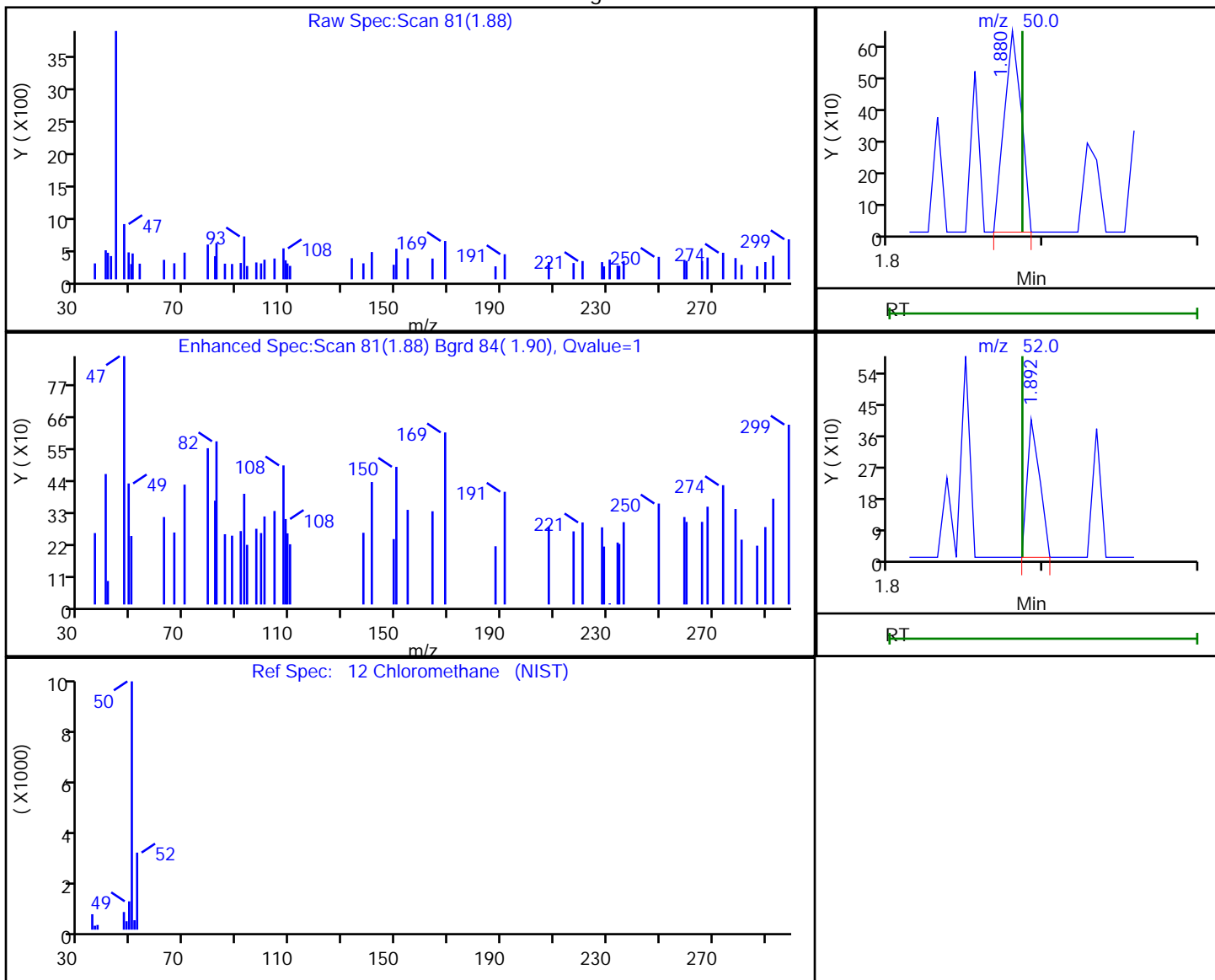


Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101911.D
 Injection Date: 19-Oct-2019 17:54:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-3 Lab Sample ID: 180-97133-3
 Client ID: HD-MW-5-0/1-0
 Operator ID: 433269 ALS Bottle#: 5 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

12 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
1.88	50.00	493	0.129388
1.89	52.00	227	

Reviewer: bowieh, 22-Oct-2019 09:45:31

Audit Action: Marked Compound Undetected

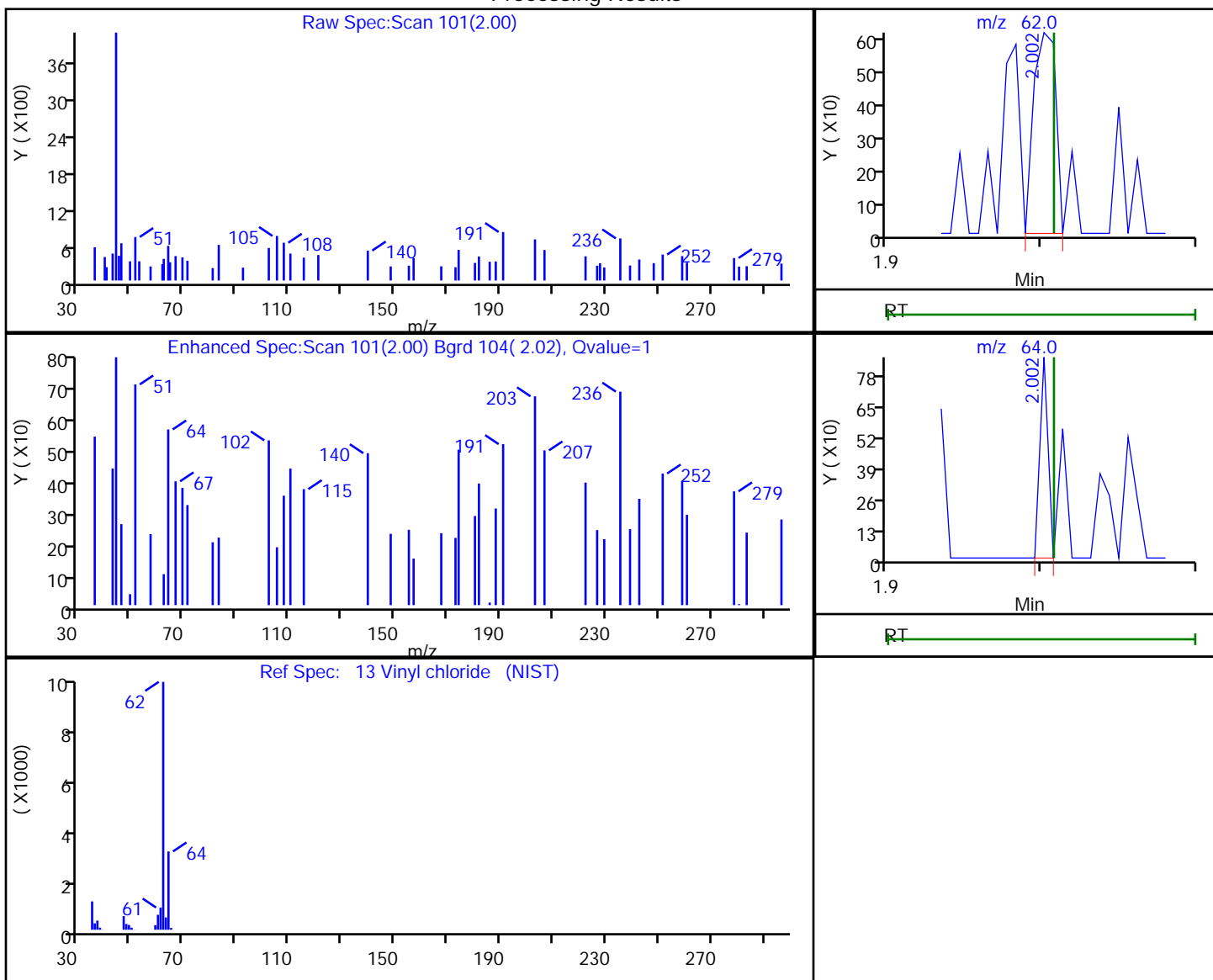
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101911.D
 Injection Date: 19-Oct-2019 17:54:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-3 Lab Sample ID: 180-97133-3
 Client ID: HD-MW-5-0/1-0
 Operator ID: 433269 ALS Bottle#: 5 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

13 Vinyl chloride, CAS: 75-01-4

Processing Results



RT	Mass	Response	Amount
2.00	62.00	614	0.189850
2.00	64.00	313	

Reviewer: bowieh, 22-Oct-2019 09:45:32

Audit Action: Marked Compound Undetected

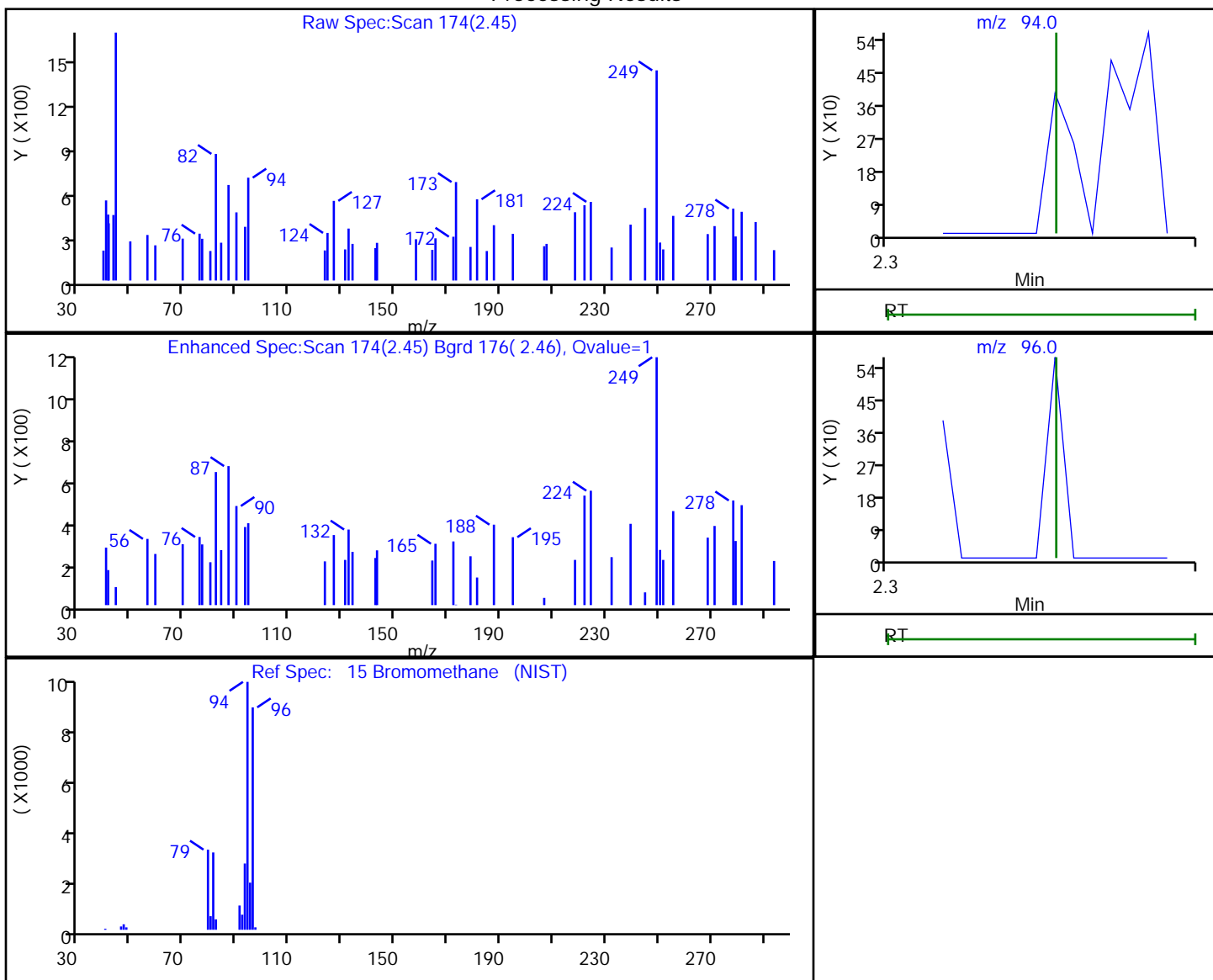
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101911.D
 Injection Date: 19-Oct-2019 17:54:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-3 Lab Sample ID: 180-97133-3
 Client ID: HD-MW-5-0/1-0
 Operator ID: 433269 ALS Bottle#: 5 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

15 Bromomethane, CAS: 74-83-9

Processing Results



RT	Mass	Response	Amount
2.45	94.00	257	0.188309
2.45	96.00	326	

Reviewer: bowieh, 22-Oct-2019 09:45:33

Audit Action: Marked Compound Undetected

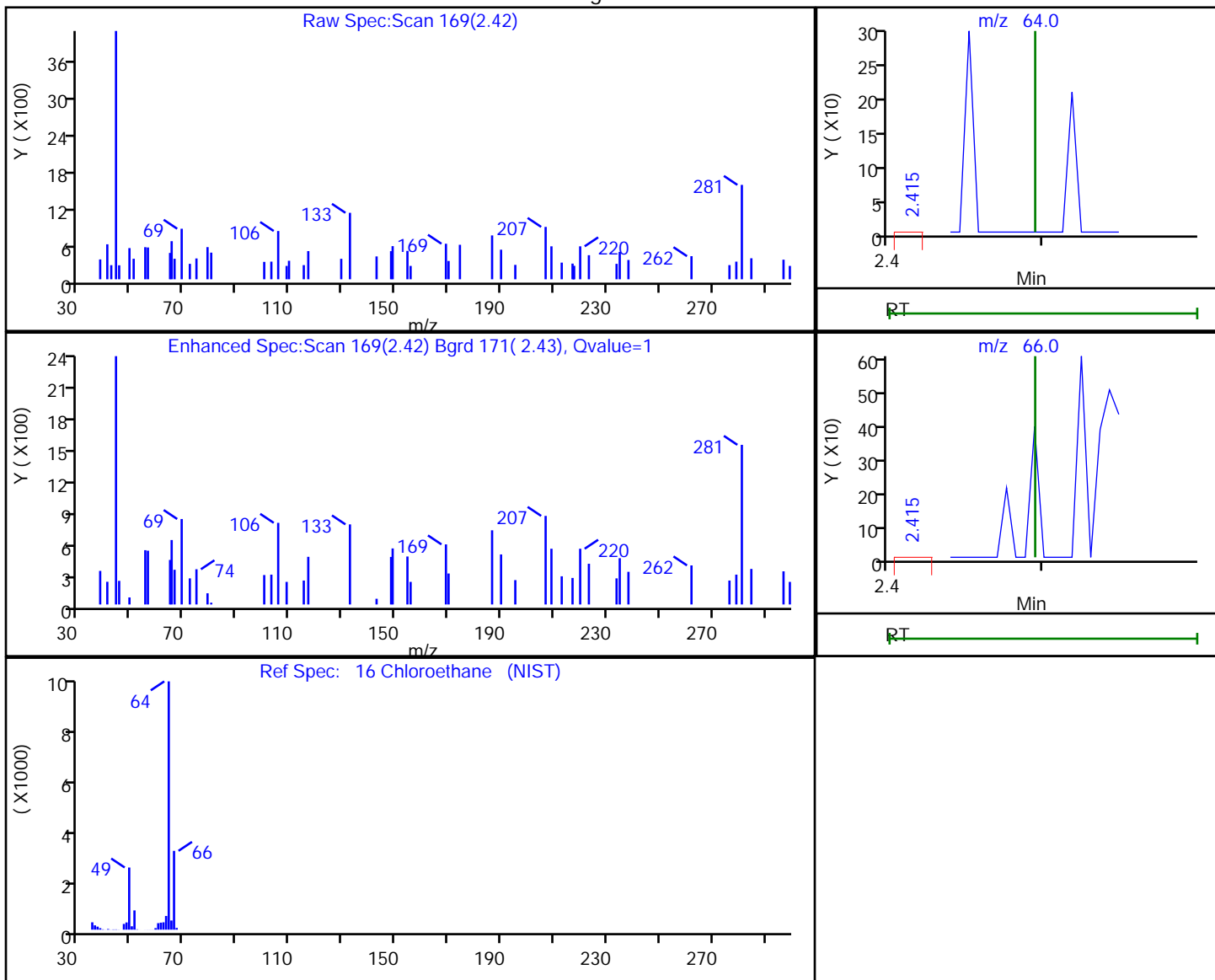
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101911.D
Injection Date: 19-Oct-2019 17:54:30 Instrument ID: CHHP6
Lims ID: 180-97133-A-3 Lab Sample ID: 180-97133-3
Client ID: HD-MW-5-0/1-0
Operator ID: 433269 ALS Bottle#: 5 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

16 Chloroethane, CAS: 75-00-3

Processing Results



RT	Mass	Response	Amount
2.42	64.00	279	-2.612966
2.42	66.00	306	

Reviewer: bowieh, 22-Oct-2019 09:45:34

Audit Action: Marked Compound Undetected

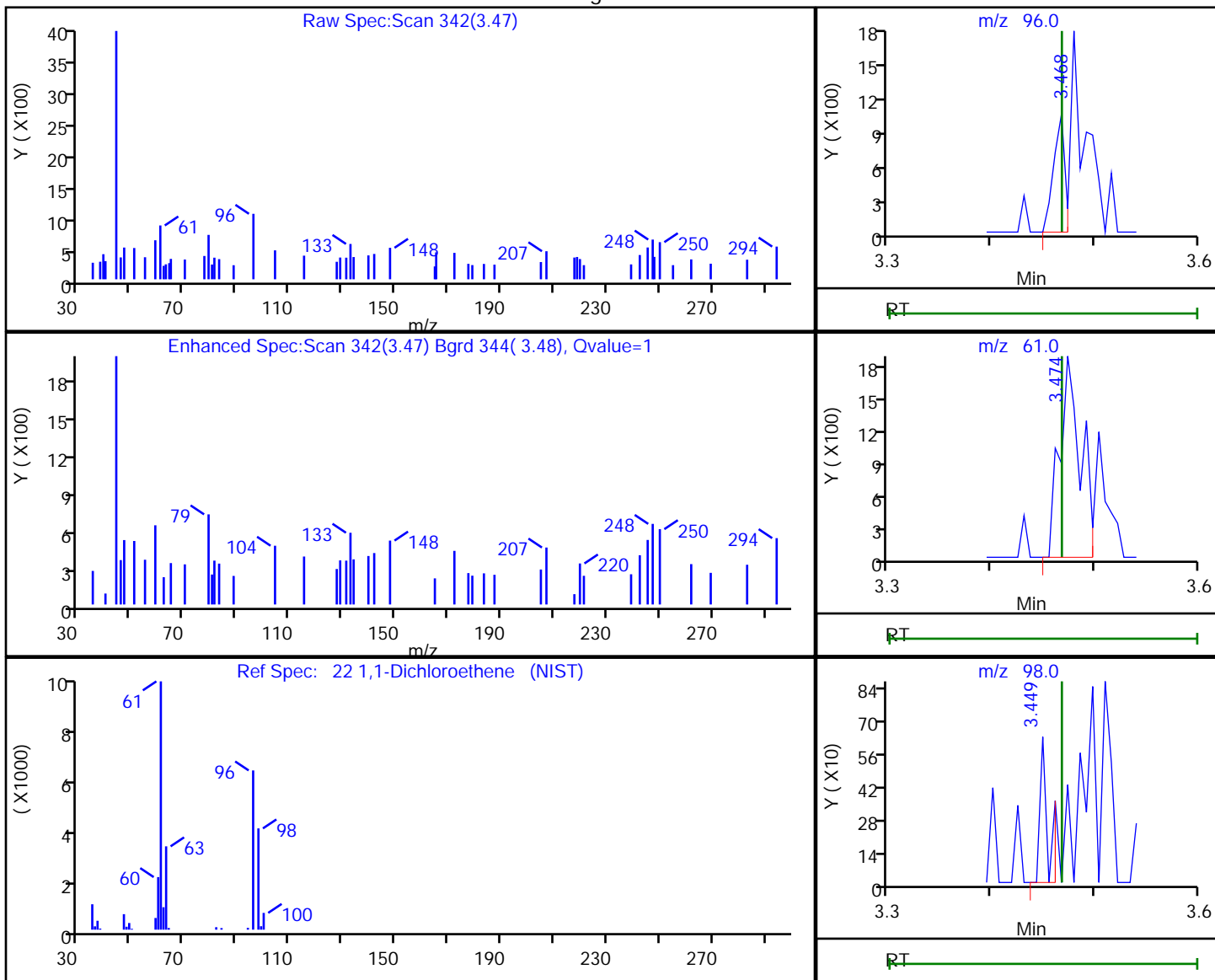
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101911.D
 Injection Date: 19-Oct-2019 17:54:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-3 Lab Sample ID: 180-97133-3
 Client ID: HD-MW-5-0/1-0
 Operator ID: 433269 ALS Bottle#: 5 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

22 1,1-Dichloroethene, CAS: 75-35-4

Processing Results



RT	Mass	Response	Amount
3.47	96.00	800	0.370737
3.47	61.00	2599	
3.45	98.00	357	

Reviewer: bowieh, 22-Oct-2019 09:45:37

Audit Action: Marked Compound Undetected

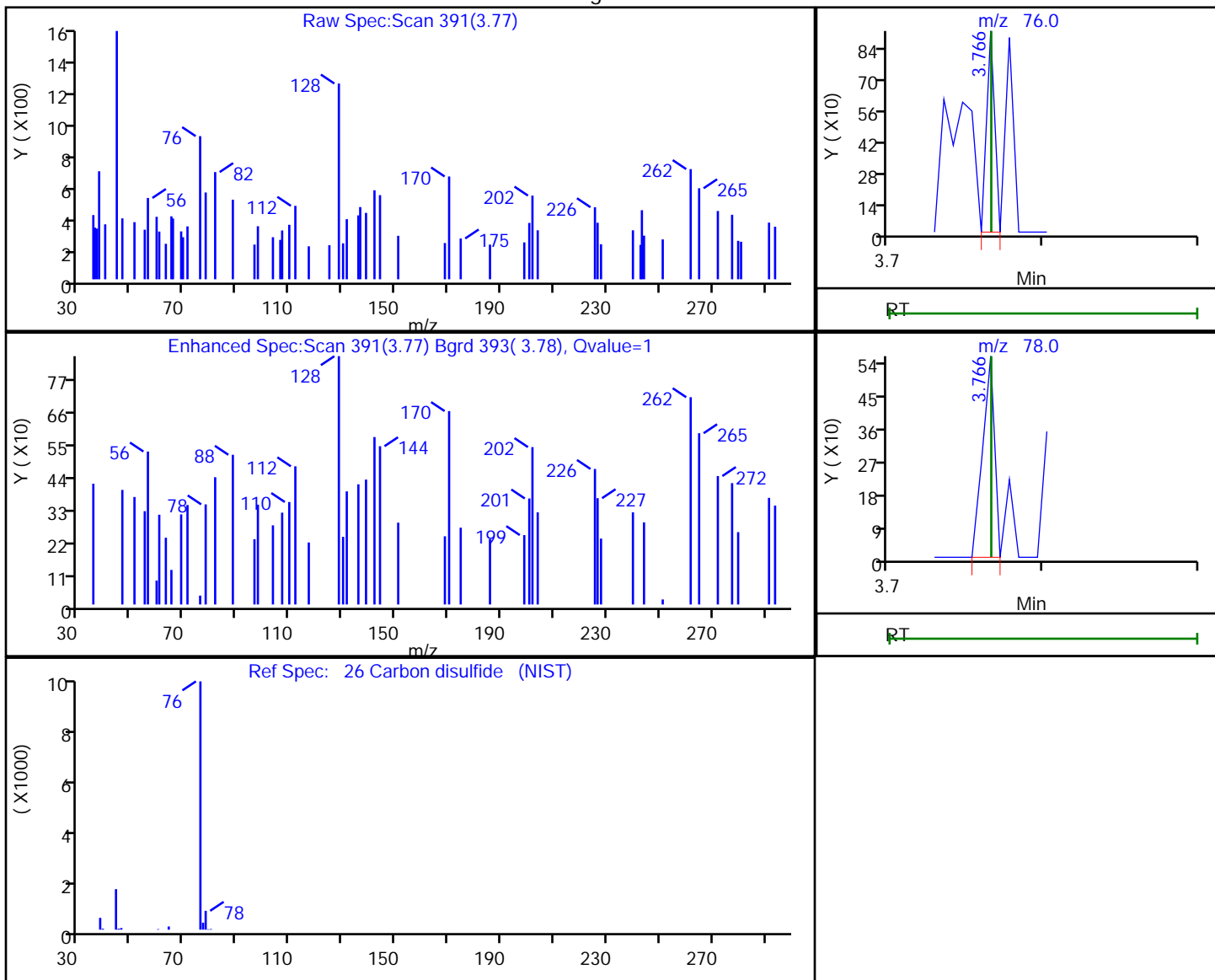
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101911.D
 Injection Date: 19-Oct-2019 17:54:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-3 Lab Sample ID: 180-97133-3
 Client ID: HD-MW-5-0/1-0
 Operator ID: 433269 ALS Bottle#: 5 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

26 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
3.77	76.00	333	0.056861
3.77	78.00	296	

Reviewer: bowieh, 22-Oct-2019 09:45:39

Audit Action: Marked Compound Undetected

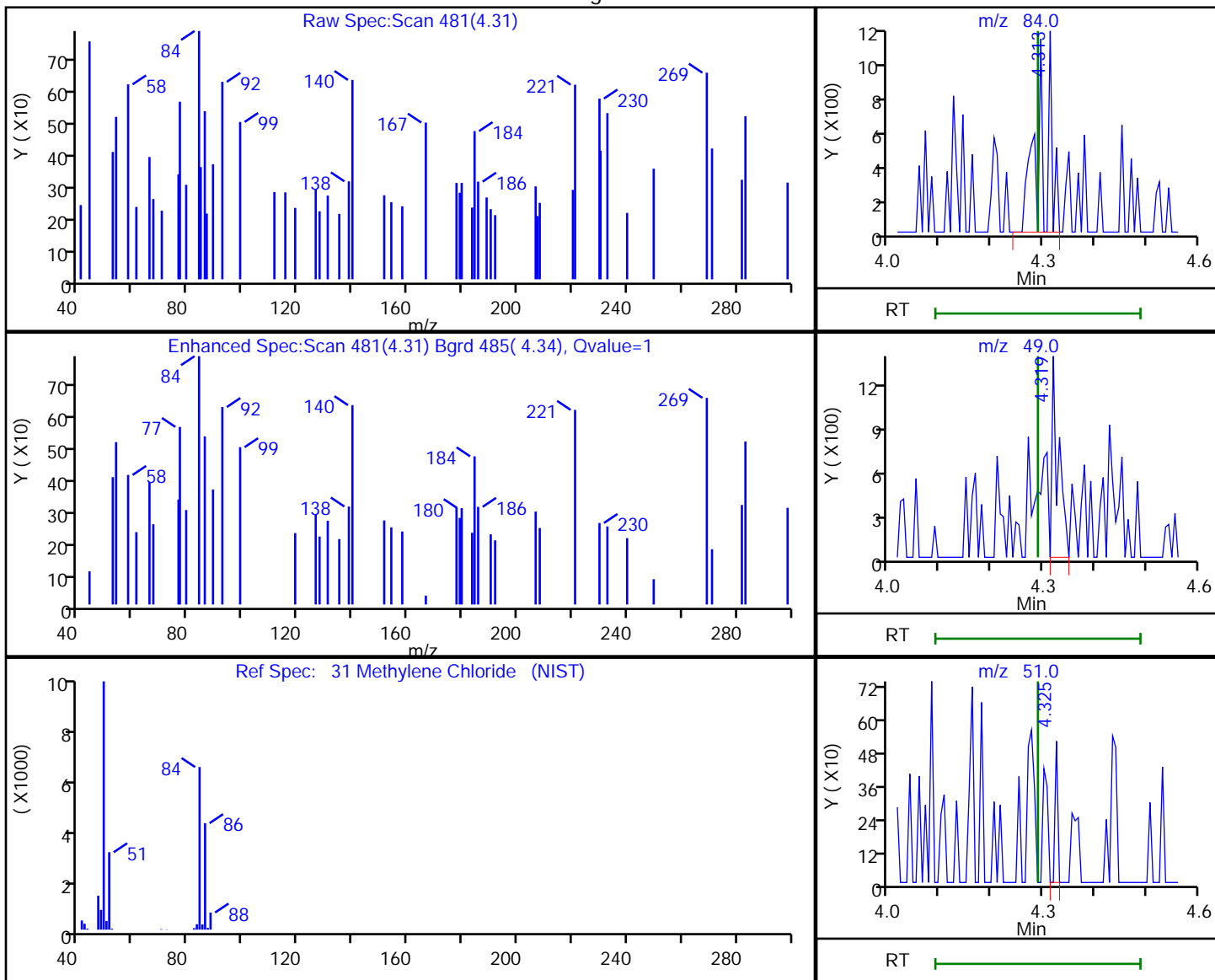
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101911.D
Injection Date: 19-Oct-2019 17:54:30 Instrument ID: CHHP6
Lims ID: 180-97133-A-3 Lab Sample ID: 180-97133-3
Client ID: HD-MW-5-0/1-0
Operator ID: 433269 ALS Bottle#: 5 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

31 Methylene Chloride, CAS: 75-09-2

Processing Results



RT	Mass	Response	Amount
4.31	84.00	1626	-2.324202
4.32	49.00	1152	
4.33	51.00	189	

Reviewer: bowieh, 22-Oct-2019 09:45:42

Audit Action: Marked Compound Undetected

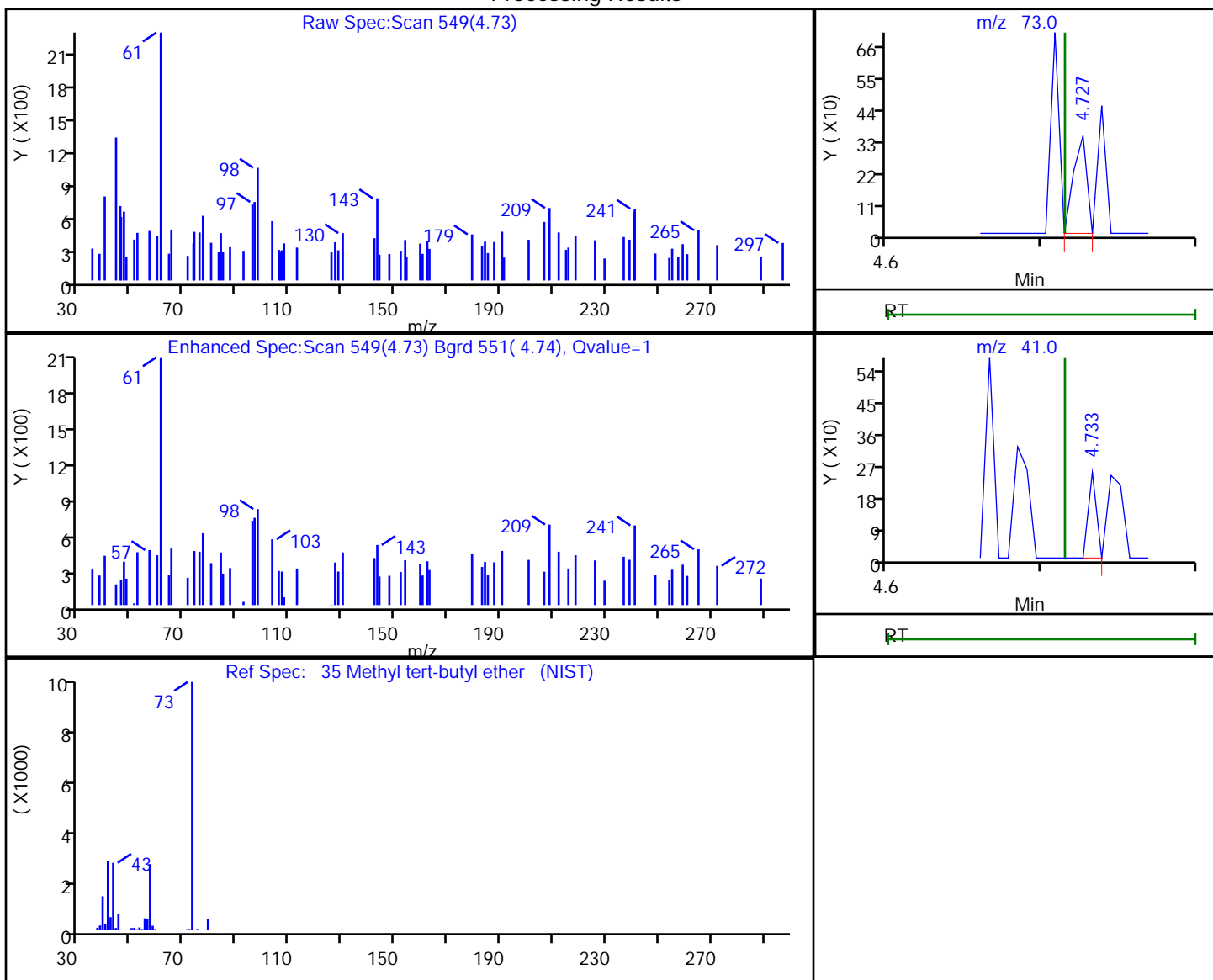
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101911.D
 Injection Date: 19-Oct-2019 17:54:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-3 Lab Sample ID: 180-97133-3
 Client ID: HD-MW-5-0/1-0
 Operator ID: 433269 ALS Bottle#: 5 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

35 Methyl tert-butyl ether, CAS: 1634-04-4

Processing Results



RT	Mass	Response	Amount
4.73	73.00	205	0.036490
4.73	41.00	89	

Reviewer: bowieh, 22-Oct-2019 09:45:46

Audit Action: Marked Compound Undetected

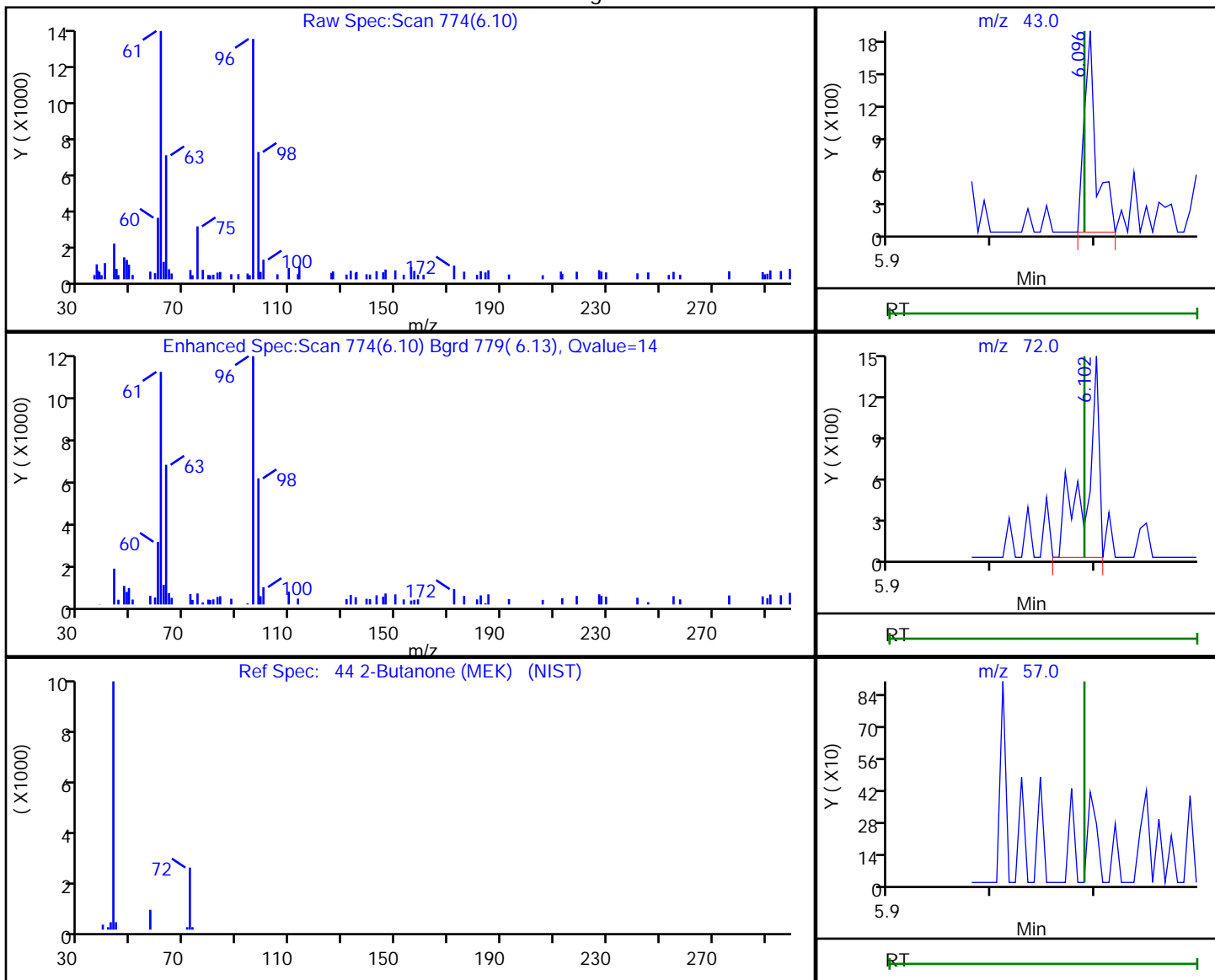
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Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101911.D
 Injection Date: 19-Oct-2019 17:54:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-3 Lab Sample ID: 180-97133-3
 Client ID: HD-MW-5-0/1-0
 Operator ID: 433269 ALS Bottle#: 5 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

44 2-Butanone (MEK), CAS: 78-93-3

Processing Results



RT	Mass	Response	Amount
6.10	43.00	1532	1.201885
6.10	72.00	1328	
6.09	57.00	0	

Reviewer: bowieh, 22-Oct-2019 09:46:01

Audit Action: Marked Compound Undetected

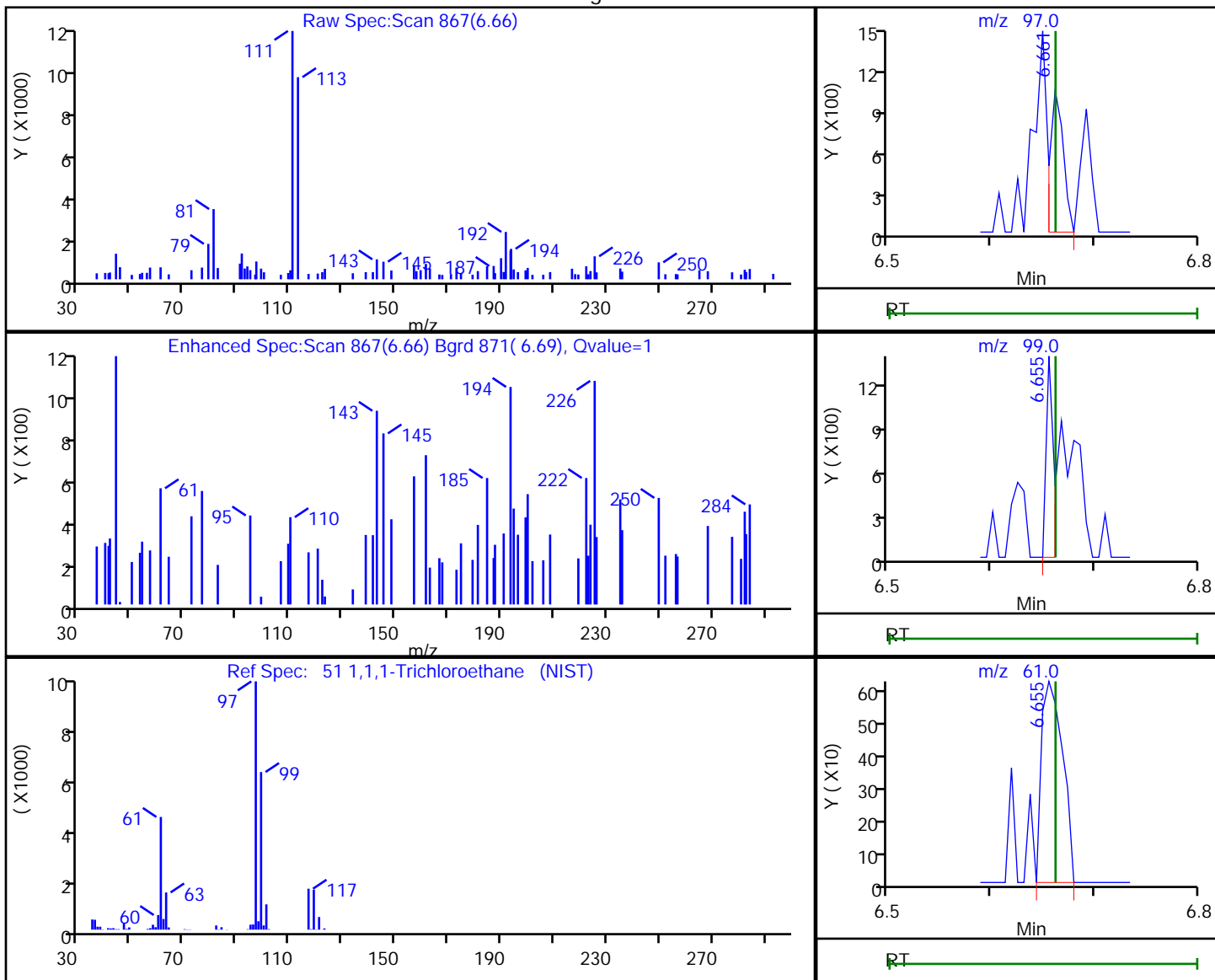
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101911.D
 Injection Date: 19-Oct-2019 17:54:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-3 Lab Sample ID: 180-97133-3
 Client ID: HD-MW-5-0/1-0
 Operator ID: 433269 ALS Bottle#: 5 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

51 1,1,1-Trichloroethane, CAS: 71-55-6

Processing Results



RT	Mass	Response	Amount
6.66	97.00	936	0.235568
6.66	99.00	689	
6.66	61.00	886	

Reviewer: bowieh, 22-Oct-2019 09:46:07

Audit Action: Marked Compound Undetected

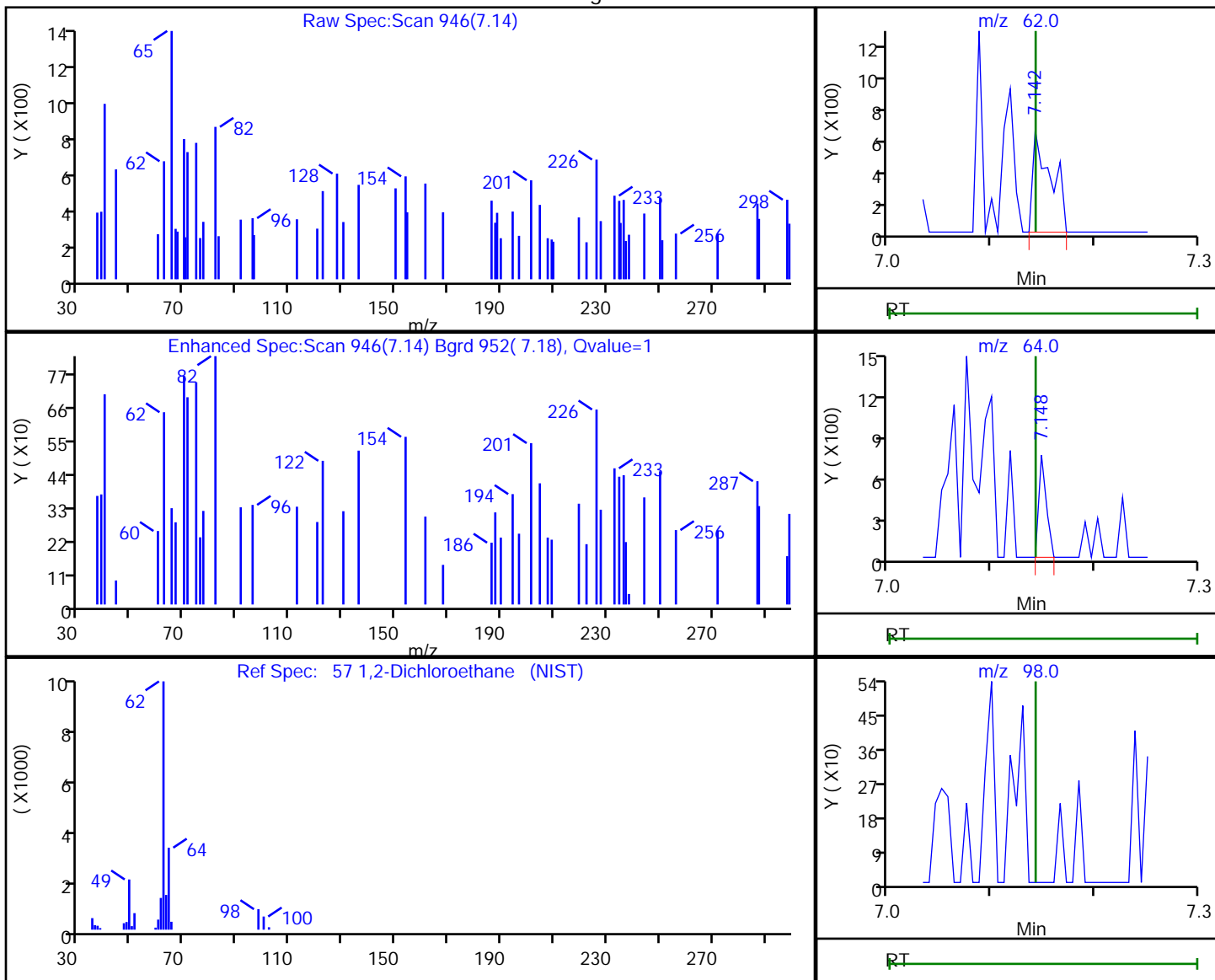
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101911.D
 Injection Date: 19-Oct-2019 17:54:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-3 Lab Sample ID: 180-97133-3
 Client ID: HD-MW-5-0/1-0
 Operator ID: 433269 ALS Bottle#: 5 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

57 1,2-Dichloroethane, CAS: 107-06-2

Processing Results



RT	Mass	Response	Amount
7.14	62.00	780	0.183663
7.15	64.00	366	
7.14	98.00	0	

Reviewer: bowieh, 22-Oct-2019 09:46:09

Audit Action: Marked Compound Undetected

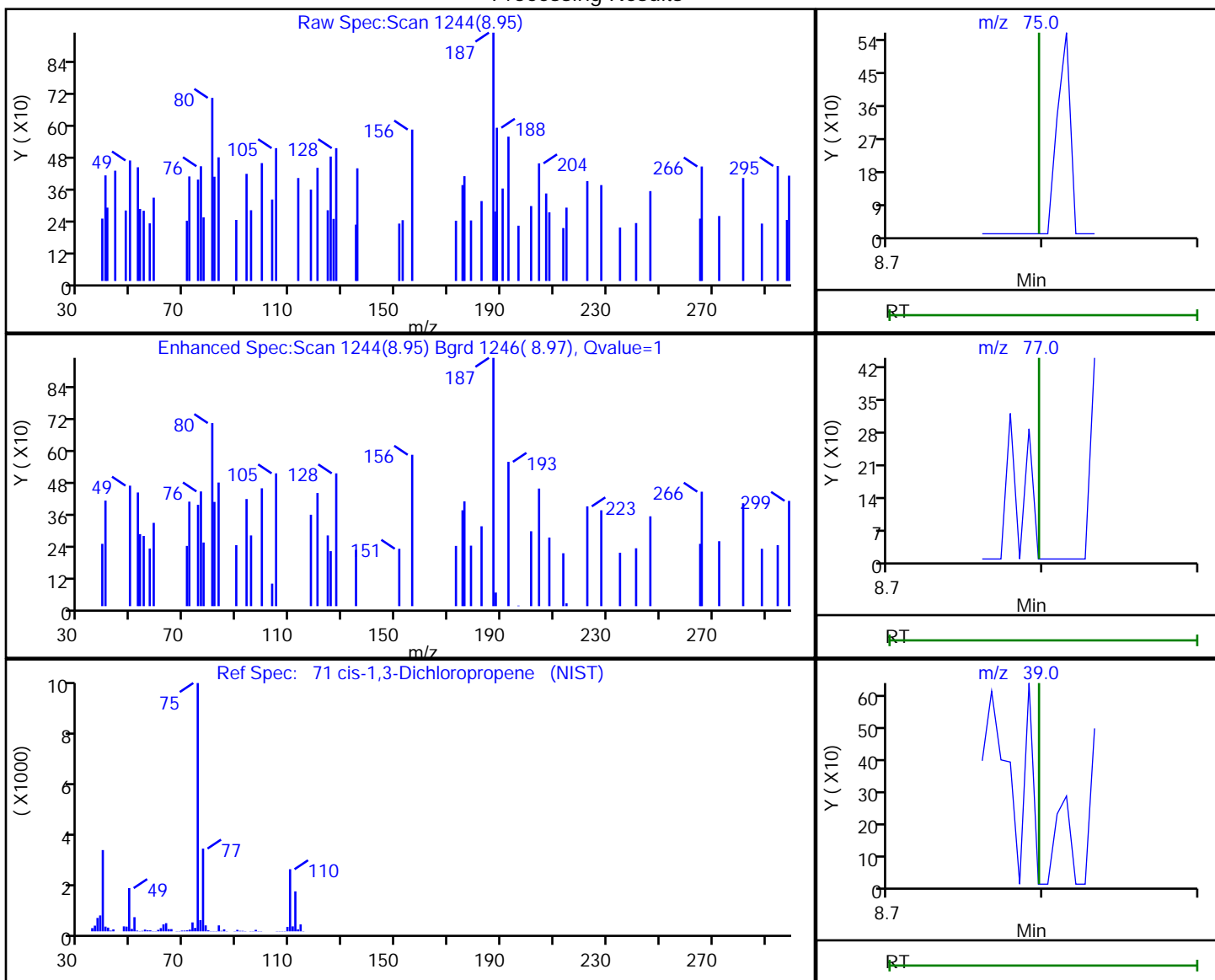
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Eurofins TestAmerica, Pittsburgh

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 Injection Date: 19-Oct-2019 17:54:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-3 Lab Sample ID: 180-97133-3
 Client ID: HD-MW-5-0/1-0
 Operator ID: 433269 ALS Bottle#: 5 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

71 cis-1,3-Dichloropropene, CAS: 10061-01-5

Processing Results



RT	Mass	Response	Amount
8.95	75.00	141	0.048302
8.96	77.00	209	
8.96	39.00	324	

Reviewer: bowieh, 22-Oct-2019 09:46:12

Audit Action: Marked Compound Undetected

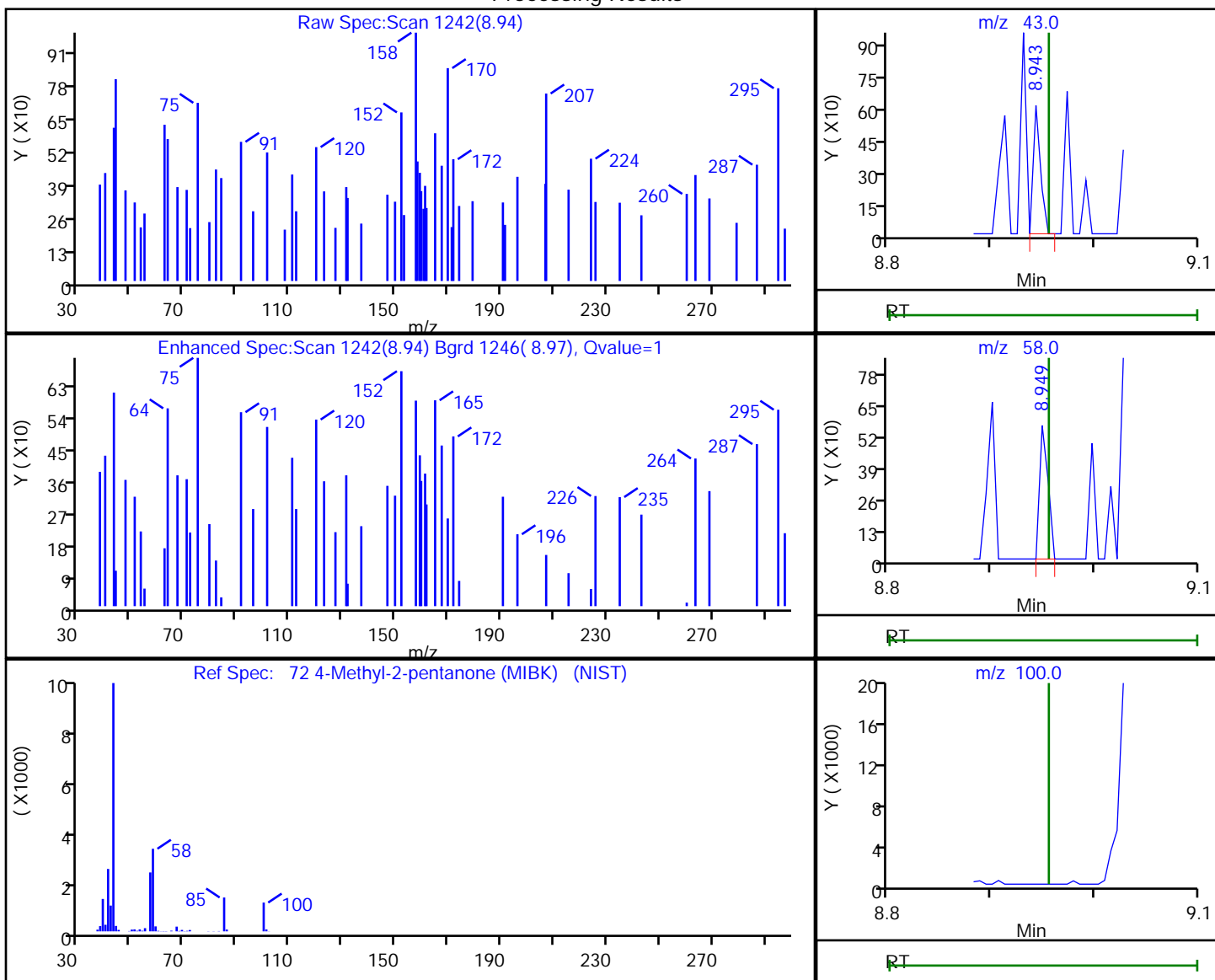
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101911.D
 Injection Date: 19-Oct-2019 17:54:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-3 Lab Sample ID: 180-97133-3
 Client ID: HD-MW-5-0/1-0
 Operator ID: 433269 ALS Bottle#: 5 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

72 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
8.94	43.00	298	0.156326
8.95	58.00	322	
8.96	100.00	0	

Reviewer: bowieh, 22-Oct-2019 09:46:13

Audit Action: Marked Compound Undetected

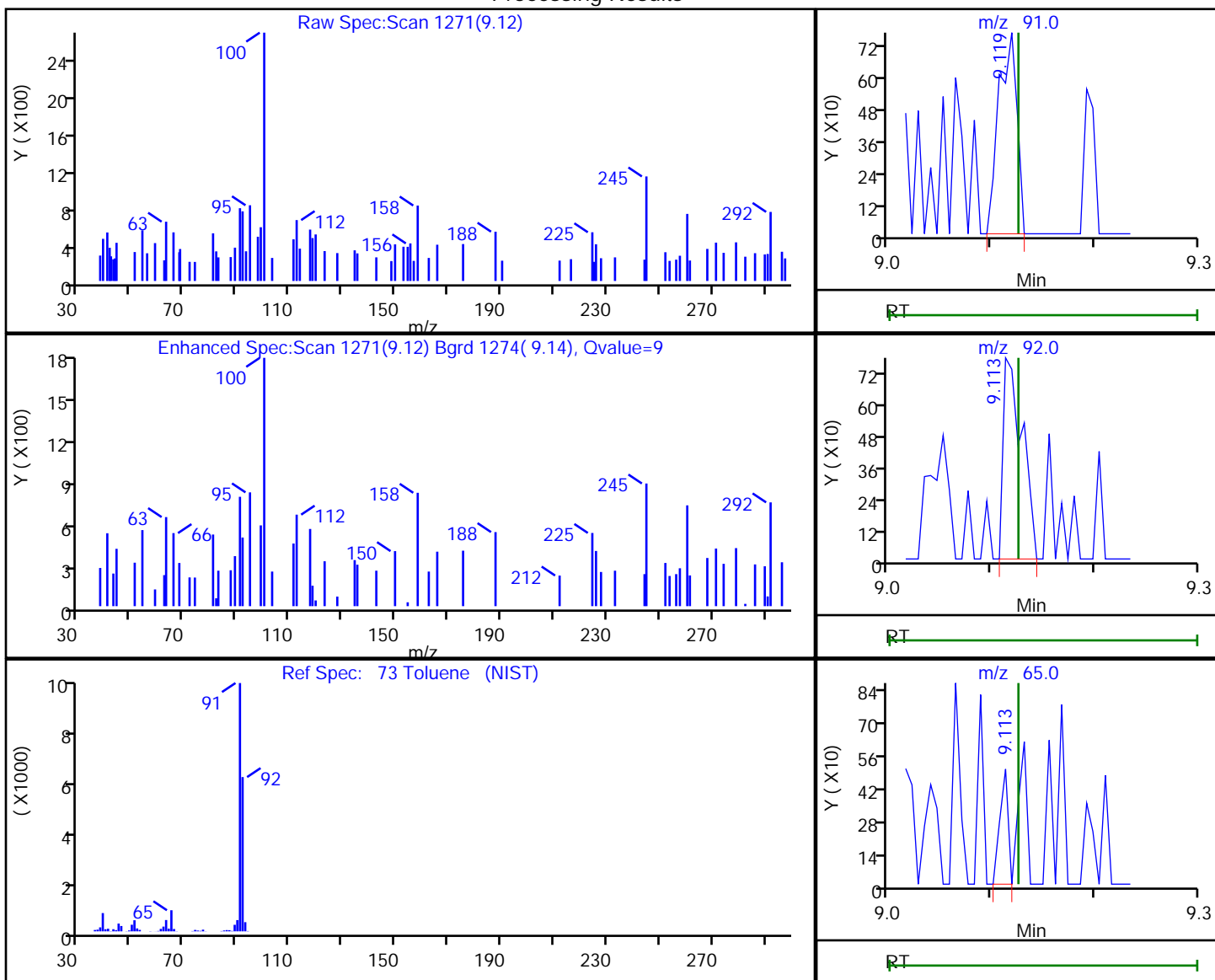
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101911.D
 Injection Date: 19-Oct-2019 17:54:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-3 Lab Sample ID: 180-97133-3
 Client ID: HD-MW-5-0/1-0
 Operator ID: 433269 ALS Bottle#: 5 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

73 Toluene, CAS: 108-88-3

Processing Results



RT	Mass	Response	Amount
9.12	91.00	940	0.092919
9.11	92.00	995	
9.11	65.00	277	

Reviewer: bowieh, 22-Oct-2019 09:46:15

Audit Action: Marked Compound Undetected

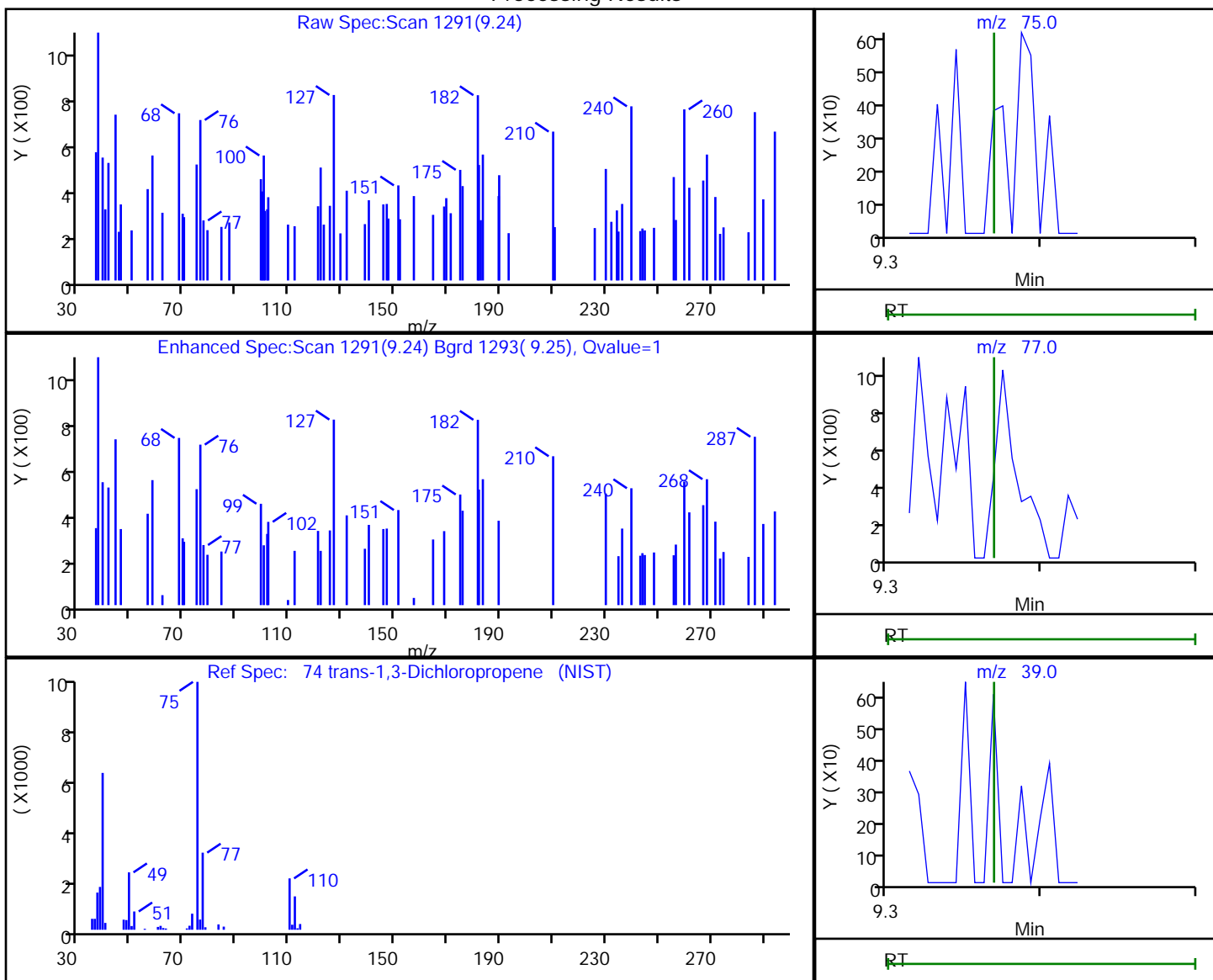
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101911.D
 Injection Date: 19-Oct-2019 17:54:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-3 Lab Sample ID: 180-97133-3
 Client ID: HD-MW-5-0/1-0
 Operator ID: 433269 ALS Bottle#: 5 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

74 trans-1,3-Dichloropropene, CAS: 10061-02-6

Processing Results



RT	Mass	Response	Amount
9.24	75.00	326	1.871497
9.24	77.00	243	
9.24	39.00	269	

Reviewer: bowieh, 22-Oct-2019 09:46:16

Audit Action: Marked Compound Undetected

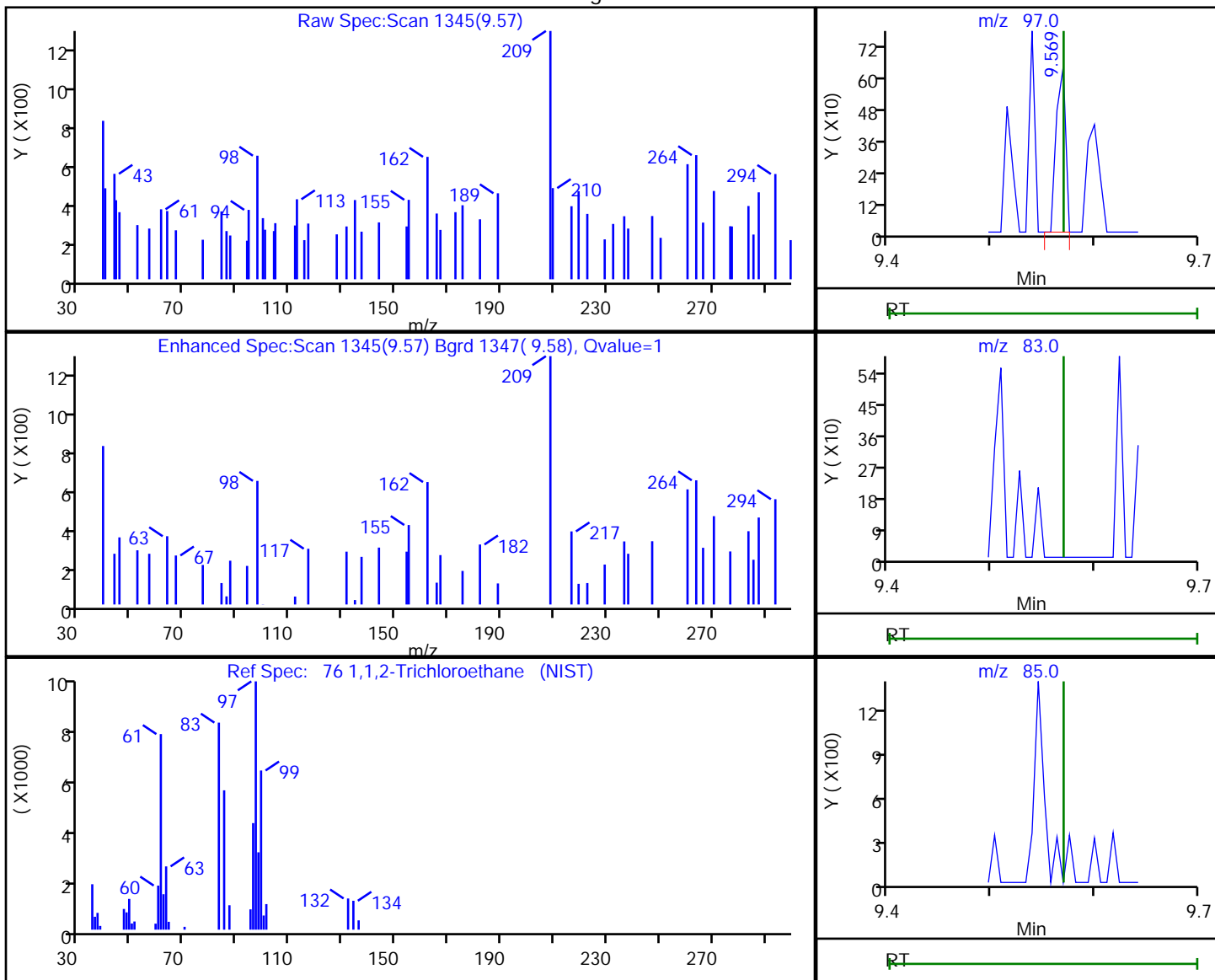
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101911.D
Injection Date: 19-Oct-2019 17:54:30 Instrument ID: CHHP6
Lims ID: 180-97133-A-3 Lab Sample ID: 180-97133-3
Client ID: HD-MW-5-0/1-0
Operator ID: 433269 ALS Bottle#: 5 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

76 1,1,2-Trichloroethane, CAS: 79-00-5

Processing Results



RT	Mass	Response	Amount
9.57	97.00	407	0.218026
9.57	83.00	0	
9.57	85.00	0	

Reviewer: bowieh, 22-Oct-2019 09:46:18

Audit Action: Marked Compound Undetected

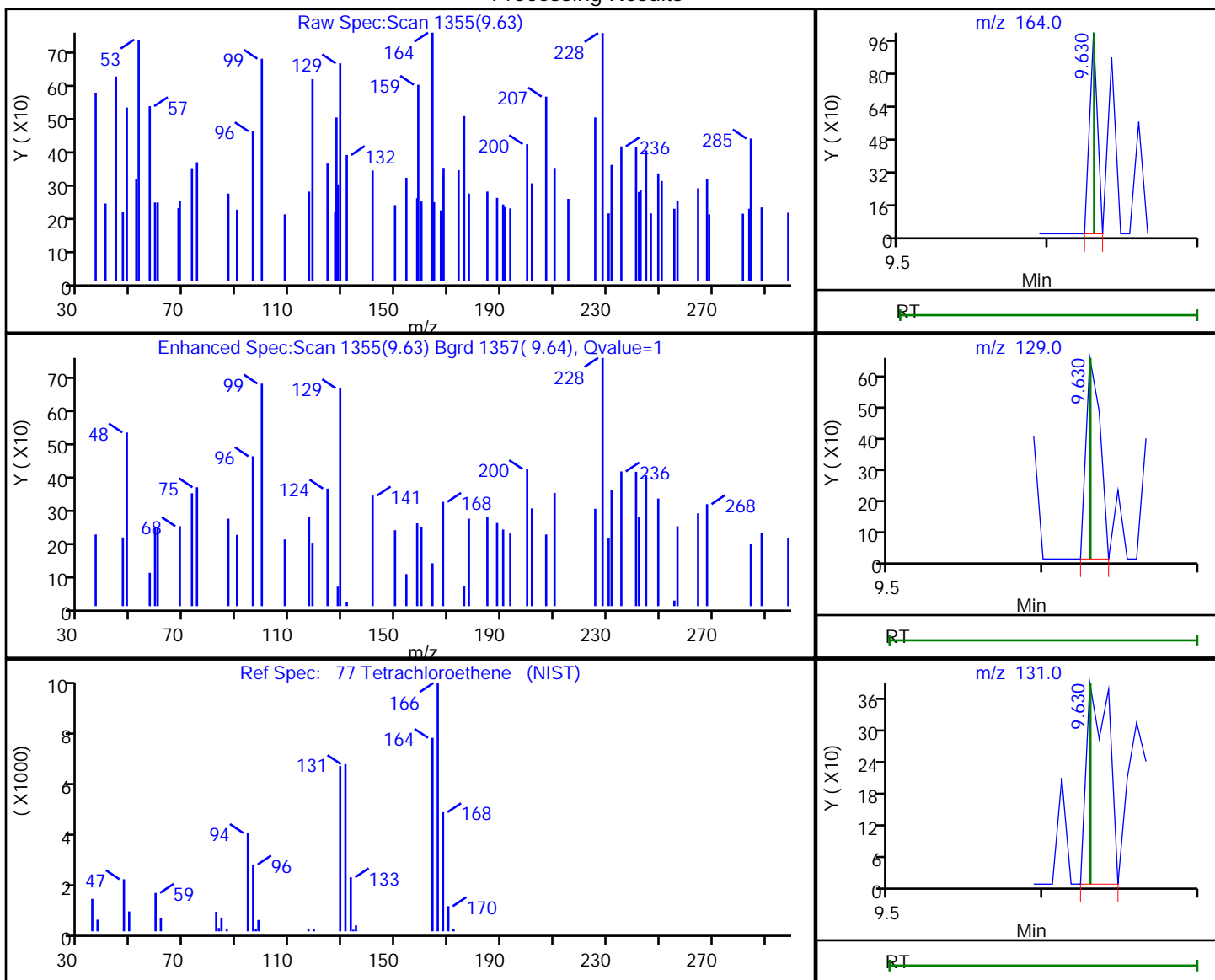
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101911.D
 Injection Date: 19-Oct-2019 17:54:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-3 Lab Sample ID: 180-97133-3
 Client ID: HD-MW-5-0/1-0
 Operator ID: 433269 ALS Bottle#: 5 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

77 Tetrachloroethene, CAS: 127-18-4

Processing Results



RT	Mass	Response	Amount
9.63	164.00	362	0.170142
9.63	129.00	418	
9.63	131.00	375	

Reviewer: bowieh, 22-Oct-2019 09:46:19

Audit Action: Marked Compound Undetected

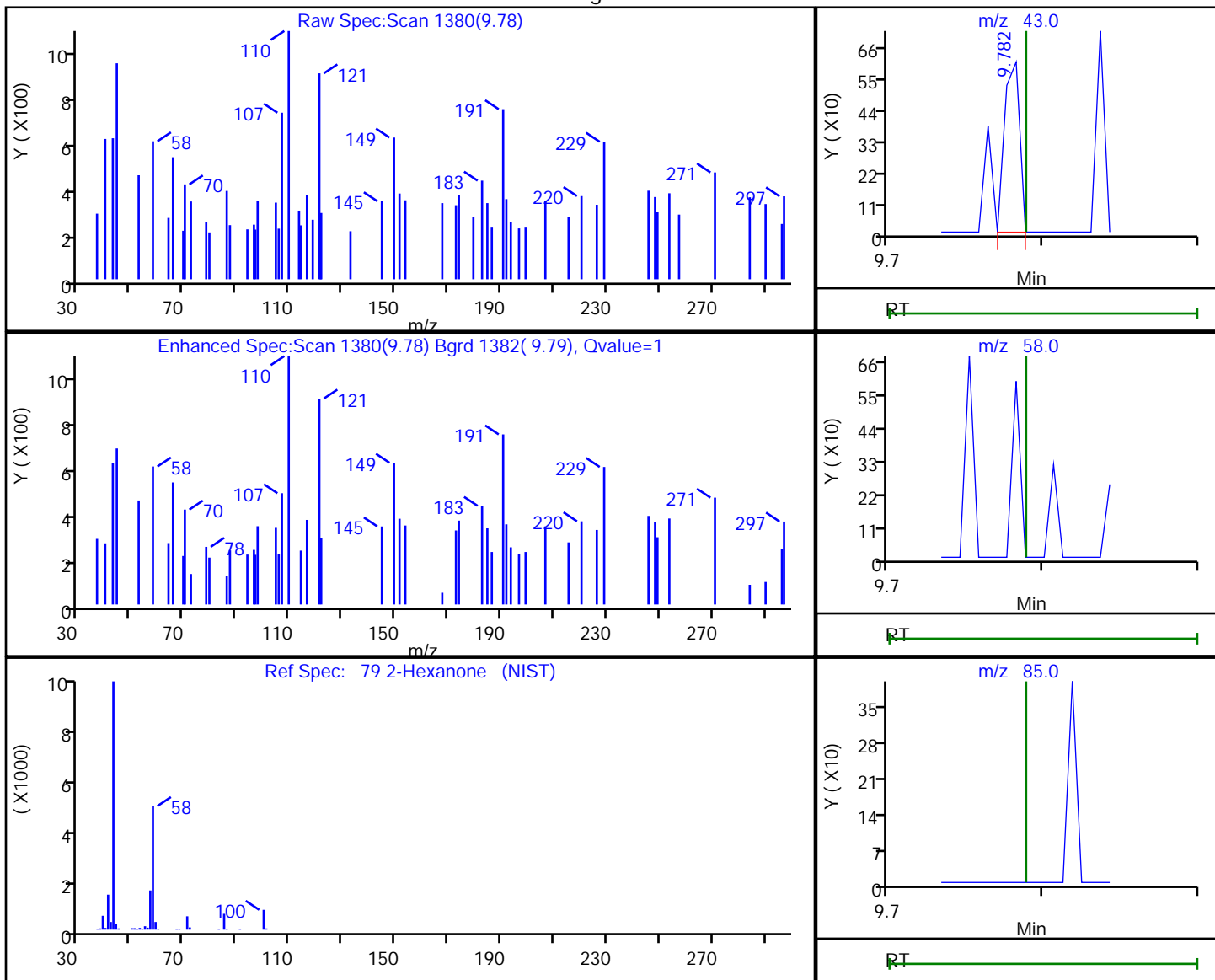
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101911.D
 Injection Date: 19-Oct-2019 17:54:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-3 Lab Sample ID: 180-97133-3
 Client ID: HD-MW-5-0/1-0
 Operator ID: 433269 ALS Bottle#: 5 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

79 2-Hexanone, CAS: 591-78-6

Processing Results



RT	Mass	Response	Amount
9.78	43.00	409	0.261155
9.79	58.00	0	
9.79	85.00	0	

Reviewer: bowieh, 22-Oct-2019 09:46:21

Audit Action: Marked Compound Undetected

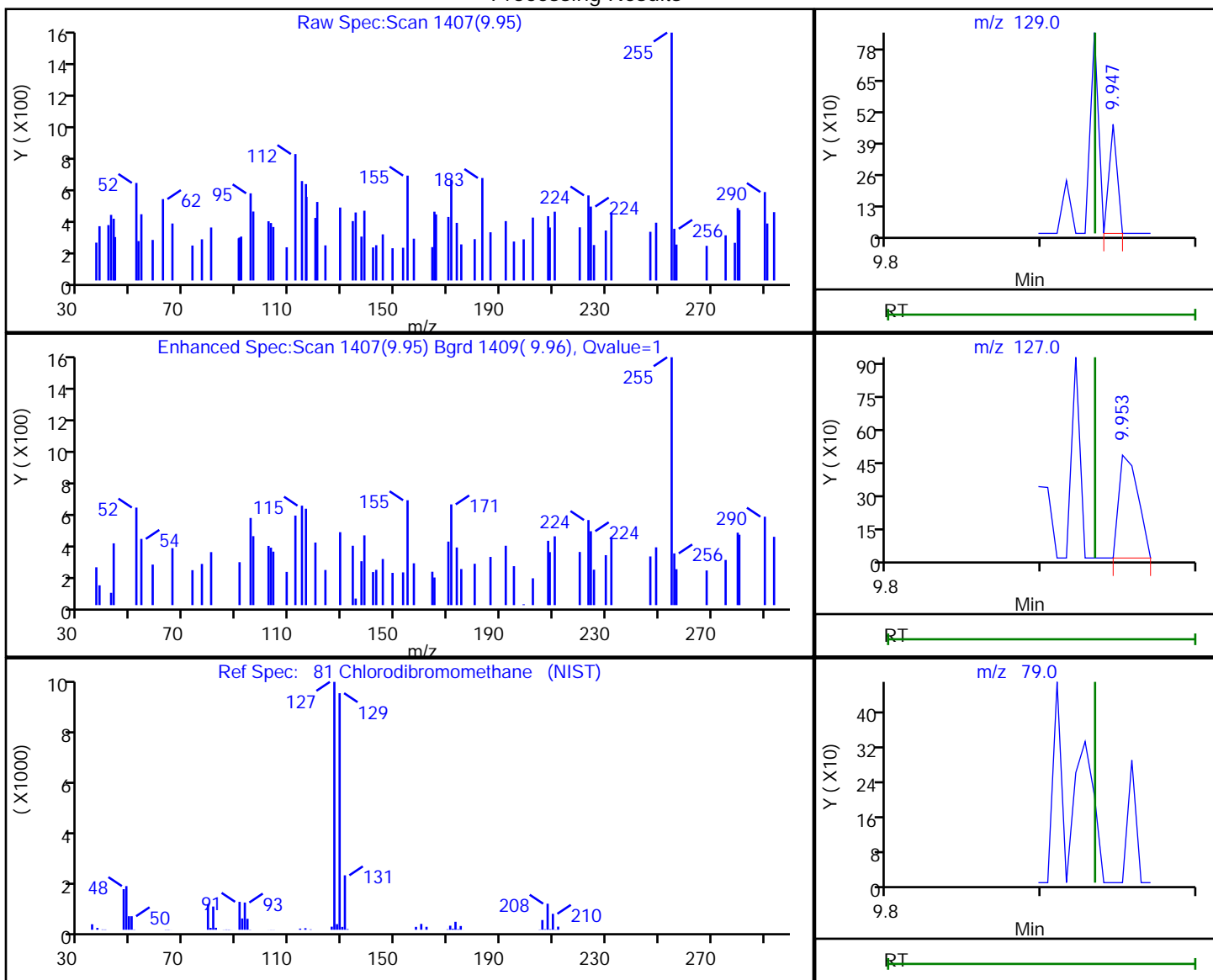
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101911.D
 Injection Date: 19-Oct-2019 17:54:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-3 Lab Sample ID: 180-97133-3
 Client ID: HD-MW-5-0/1-0
 Operator ID: 433269 ALS Bottle#: 5 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

81 Chlorodibromomethane, CAS: 124-48-1

Processing Results



RT	Mass	Response	Amount
9.95	129.00	167	0.091675
9.95	127.00	409	
9.93	79.00	0	

Reviewer: bowieh, 22-Oct-2019 09:46:22

Audit Action: Marked Compound Undetected

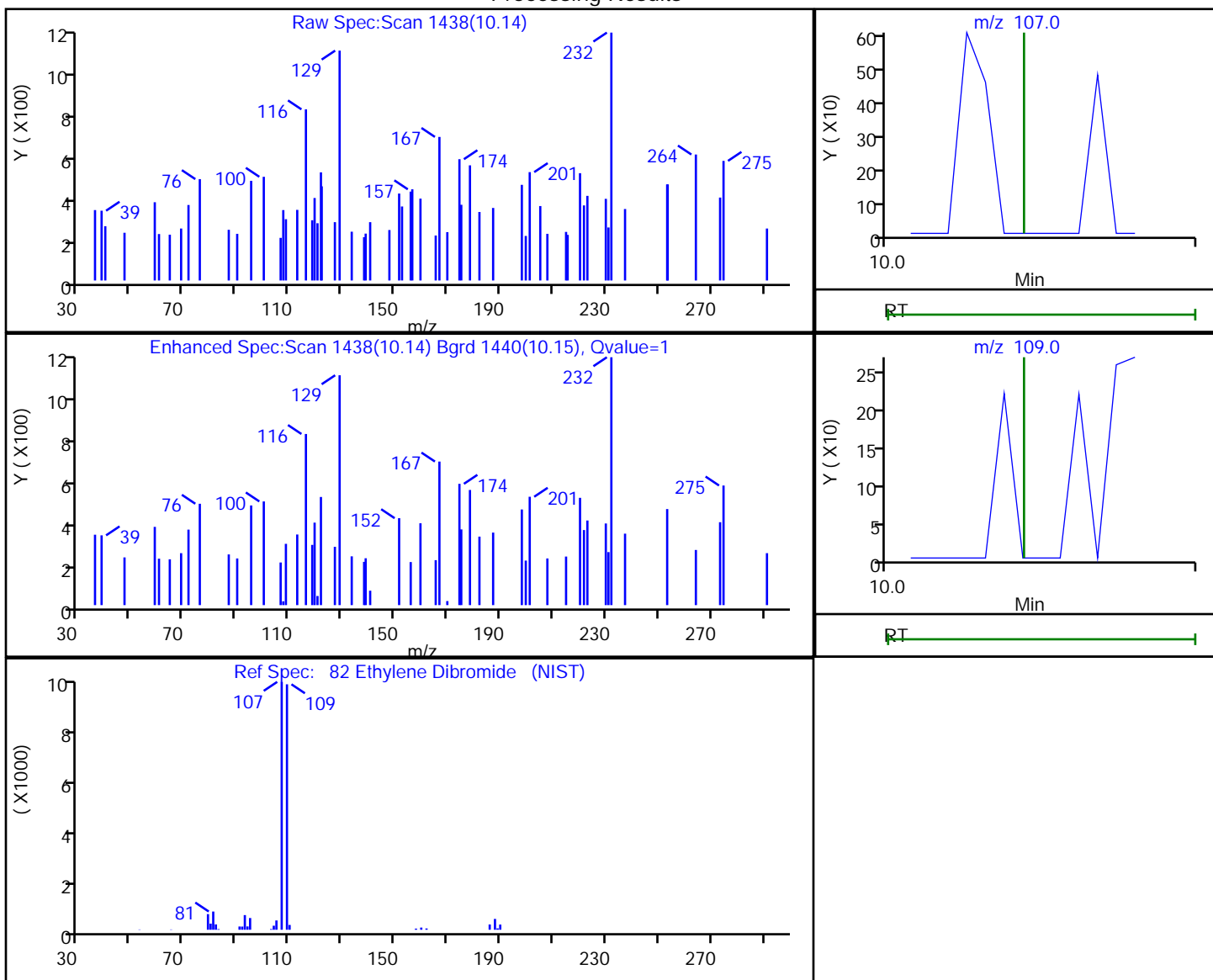
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101911.D
Injection Date: 19-Oct-2019 17:54:30 Instrument ID: CHHP6
Lims ID: 180-97133-A-3 Lab Sample ID: 180-97133-3
Client ID: HD-MW-5-0/1-0
Operator ID: 433269 ALS Bottle#: 5 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

82 Ethylene Dibromide, CAS: 106-93-4

Processing Results



RT	Mass	Response	Amount
10.14	107.00	121	0.063757
10.14	109.00	217	

Reviewer: bowieh, 22-Oct-2019 09:46:23

Audit Action: Marked Compound Undetected

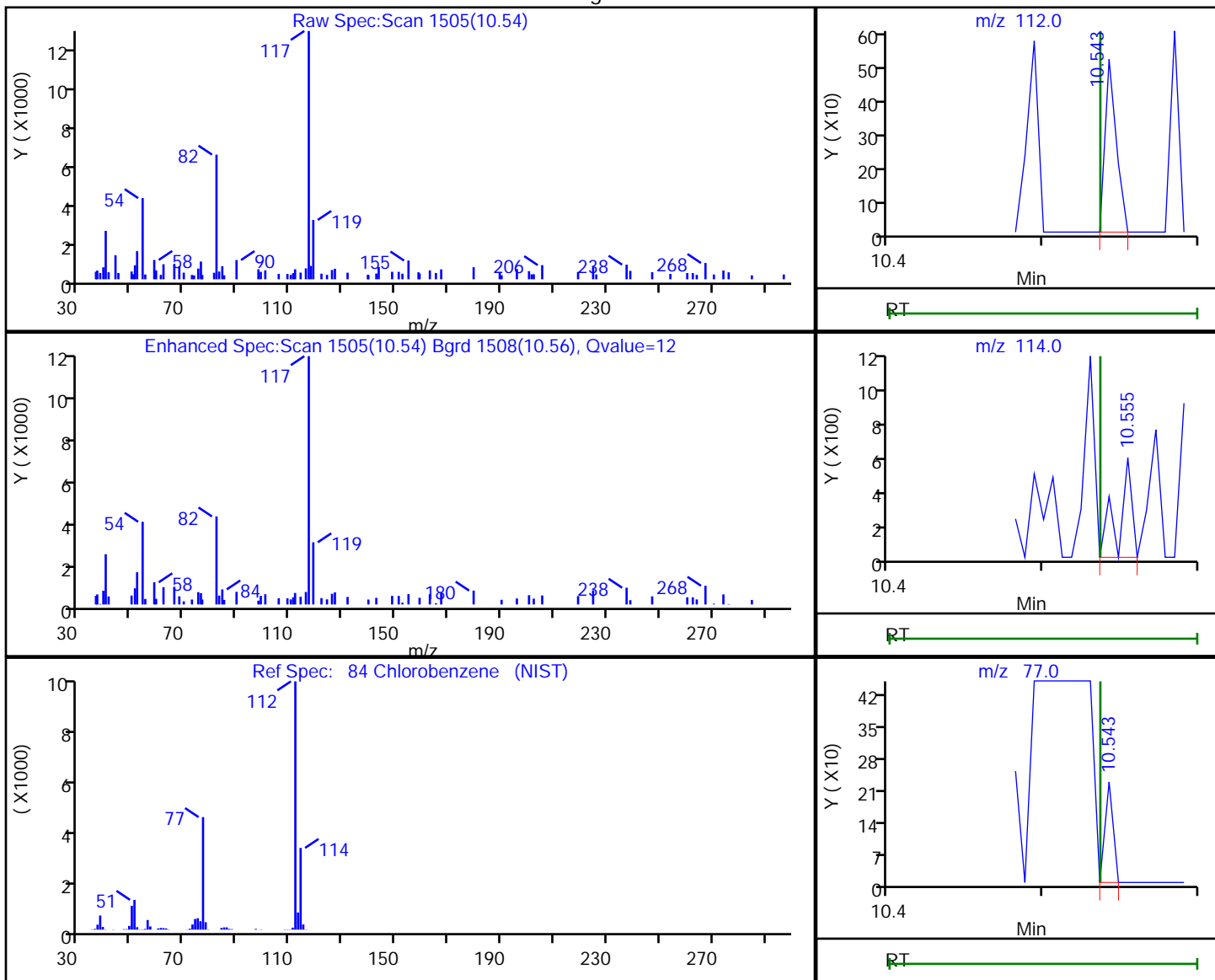
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101911.D
 Injection Date: 19-Oct-2019 17:54:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-3 Lab Sample ID: 180-97133-3
 Client ID: HD-MW-5-0/1-0
 Operator ID: 433269 ALS Bottle#: 5 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

84 Chlorobenzene, CAS: 108-90-7

Processing Results



RT	Mass	Response	Amount
10.54	112.00	263	0.039161
10.55	114.00	332	
10.54	77.00	81	

Reviewer: bowieh, 22-Oct-2019 09:46:25

Audit Action: Marked Compound Undetected

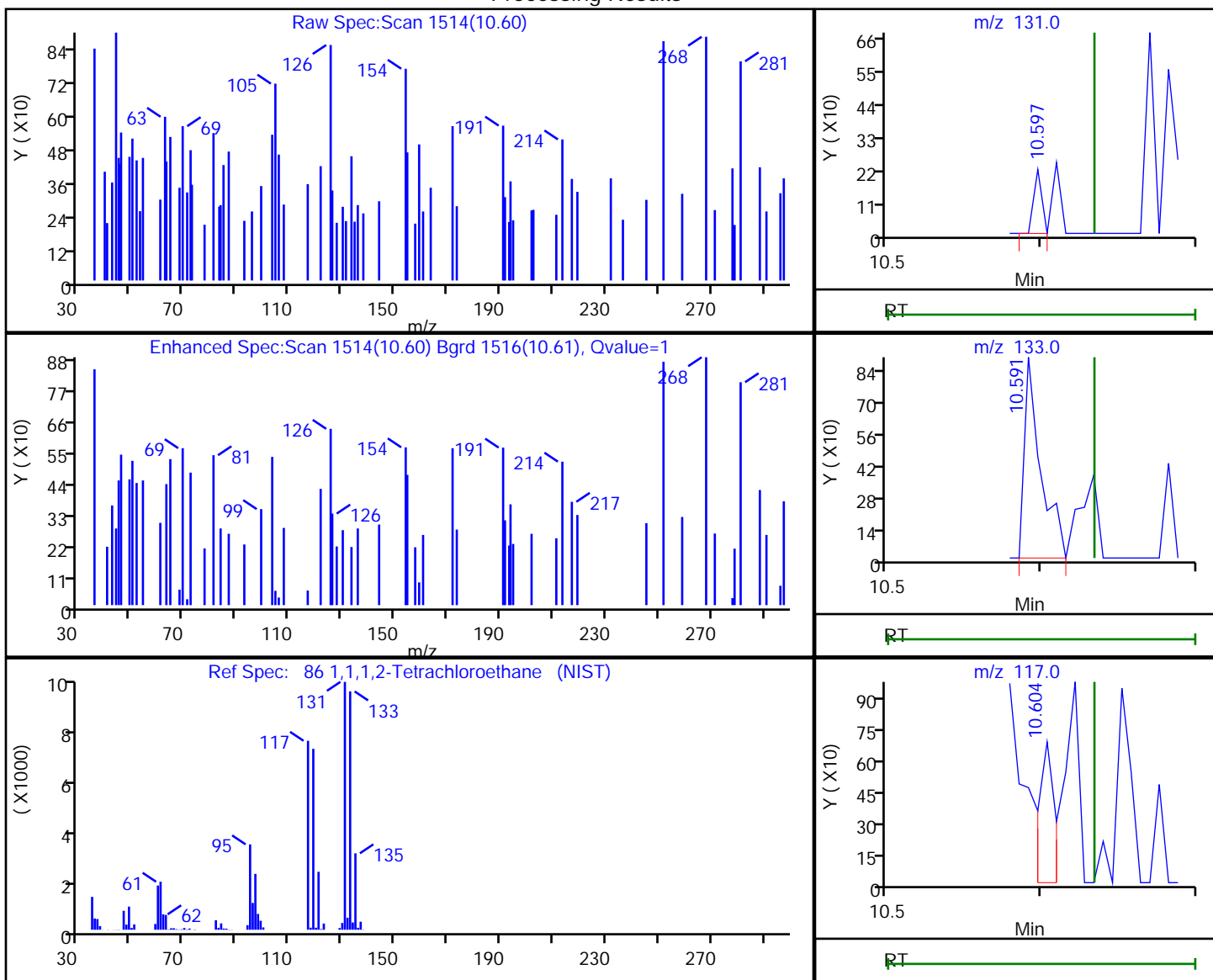
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101911.D
 Injection Date: 19-Oct-2019 17:54:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-3 Lab Sample ID: 180-97133-3
 Client ID: HD-MW-5-0/1-0
 Operator ID: 433269 ALS Bottle#: 5 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

86 1,1,1,2-Tetrachloroethane, CAS: 630-20-6

Processing Results



RT	Mass	Response	Amount
10.60	131.00	78	0.036279
10.59	133.00	655	
10.60	117.00	485	

Reviewer: bowieh, 22-Oct-2019 09:46:27

Audit Action: Marked Compound Undetected

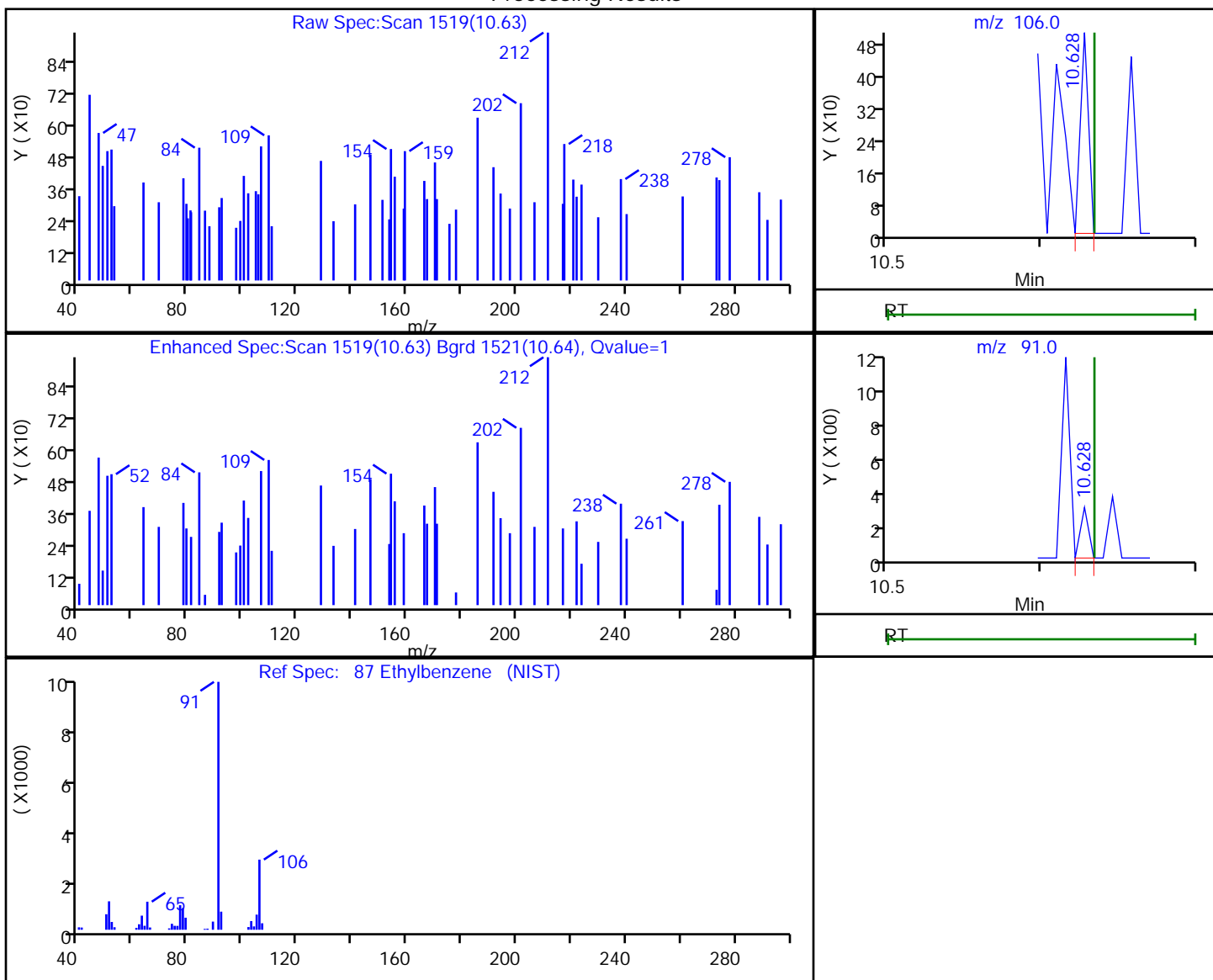
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101911.D
 Injection Date: 19-Oct-2019 17:54:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-3 Lab Sample ID: 180-97133-3
 Client ID: HD-MW-5-0/1-0
 Operator ID: 433269 ALS Bottle#: 5 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

87 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
10.63	106.00	186	0.047253
10.63	91.00	101	

Reviewer: bowieh, 22-Oct-2019 09:46:26

Audit Action: Marked Compound Undetected

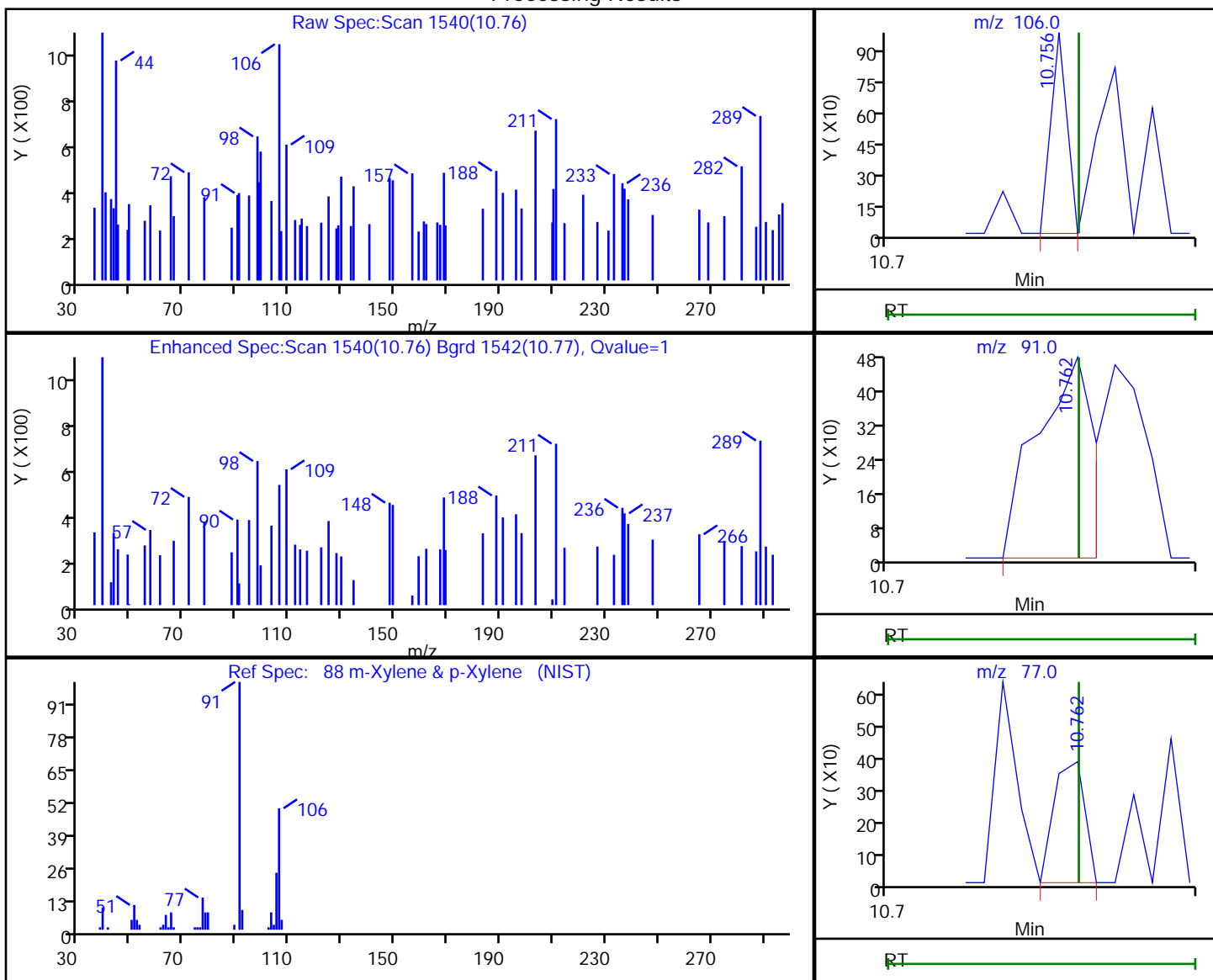
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101911.D
 Injection Date: 19-Oct-2019 17:54:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-3 Lab Sample ID: 180-97133-3
 Client ID: HD-MW-5-0/1-0
 Operator ID: 433269 ALS Bottle#: 5 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

88 m-Xylene & p-Xylene, CAS: 179601-23-1

Processing Results



RT	Mass	Response	Amount
10.76	106.00	358	0.074475
10.76	91.00	612	
10.76	77.00	266	

Reviewer: bowieh, 22-Oct-2019 09:46:29

Audit Action: Marked Compound Undetected

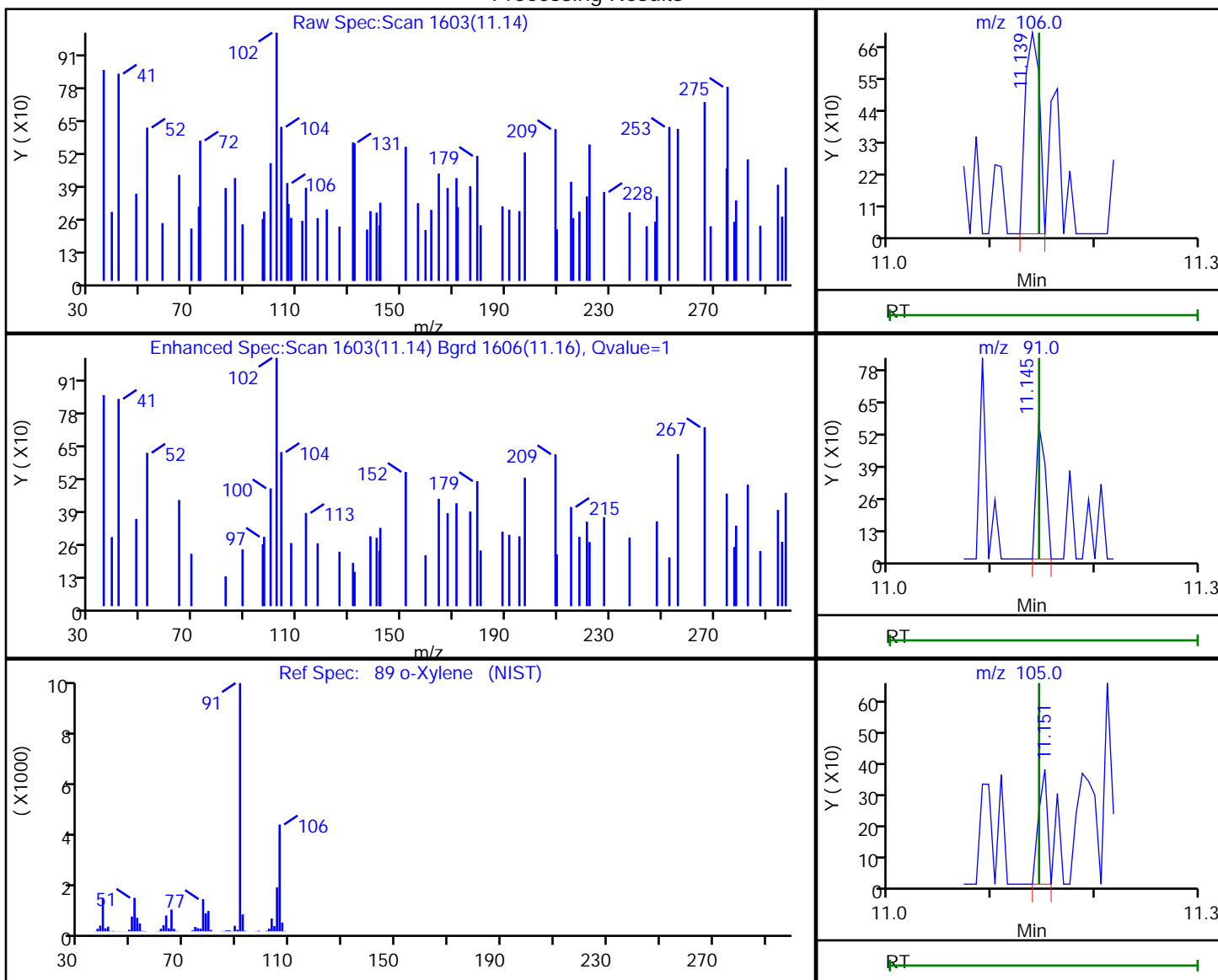
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101911.D
 Injection Date: 19-Oct-2019 17:54:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-3 Lab Sample ID: 180-97133-3
 Client ID: HD-MW-5-0/1-0
 Operator ID: 433269 ALS Bottle#: 5 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

89 o-Xylene, CAS: 95-47-6

Processing Results



RT	Mass	Response	Amount
11.14	106.00	670	0.144890
11.14	91.00	345	
11.15	105.00	220	

Reviewer: bowieh, 22-Oct-2019 09:46:31

Audit Action: Marked Compound Undetected

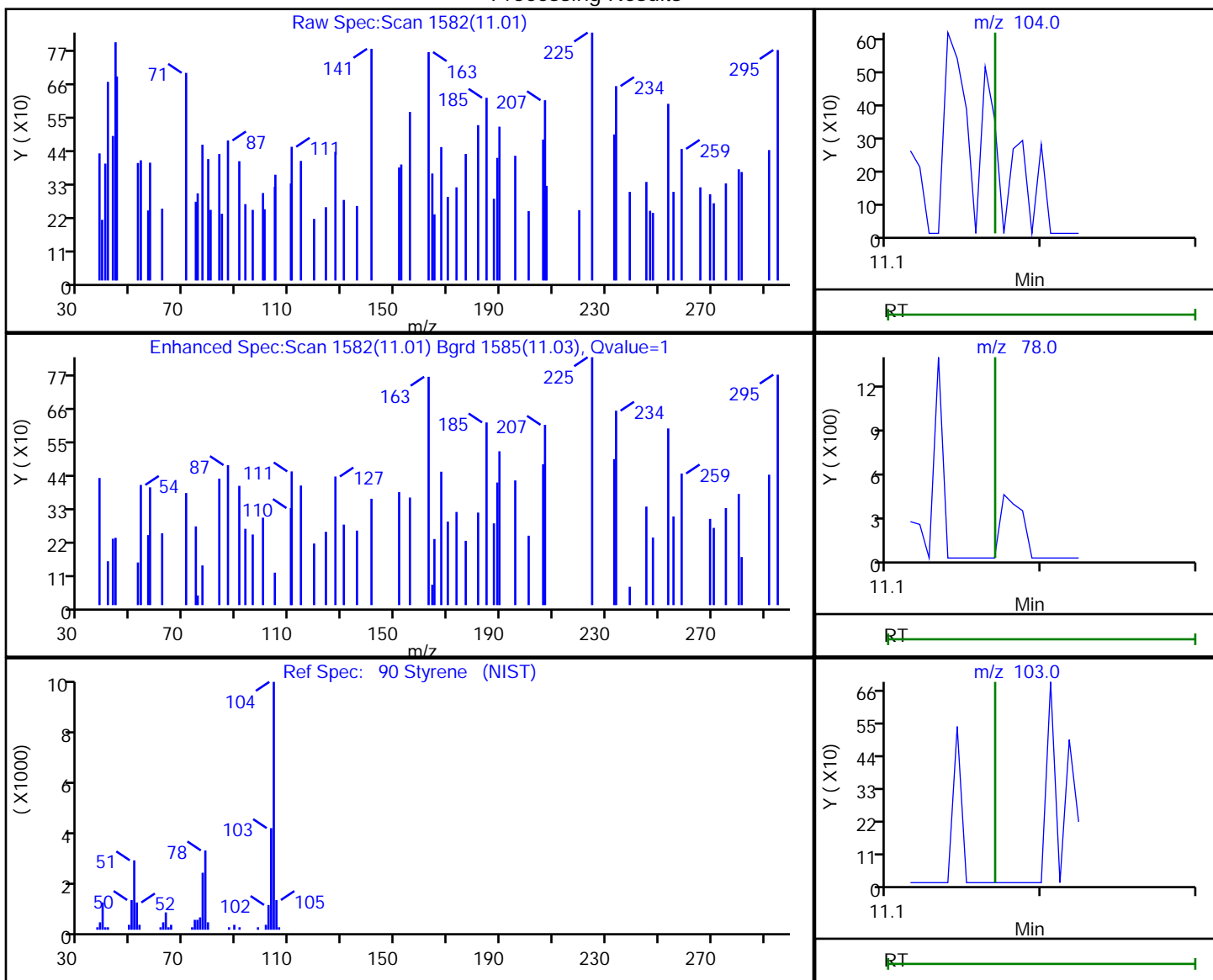
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101911.D
 Injection Date: 19-Oct-2019 17:54:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-3 Lab Sample ID: 180-97133-3
 Client ID: HD-MW-5-0/1-0
 Operator ID: 433269 ALS Bottle#: 5 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

90 Styrene, CAS: 100-42-5

Processing Results



RT	Mass	Response	Amount
11.01	104.00	343	0.046679
11.01	78.00	239	
11.01	103.00	272	

Reviewer: bowieh, 22-Oct-2019 09:46:32

Audit Action: Marked Compound Undetected

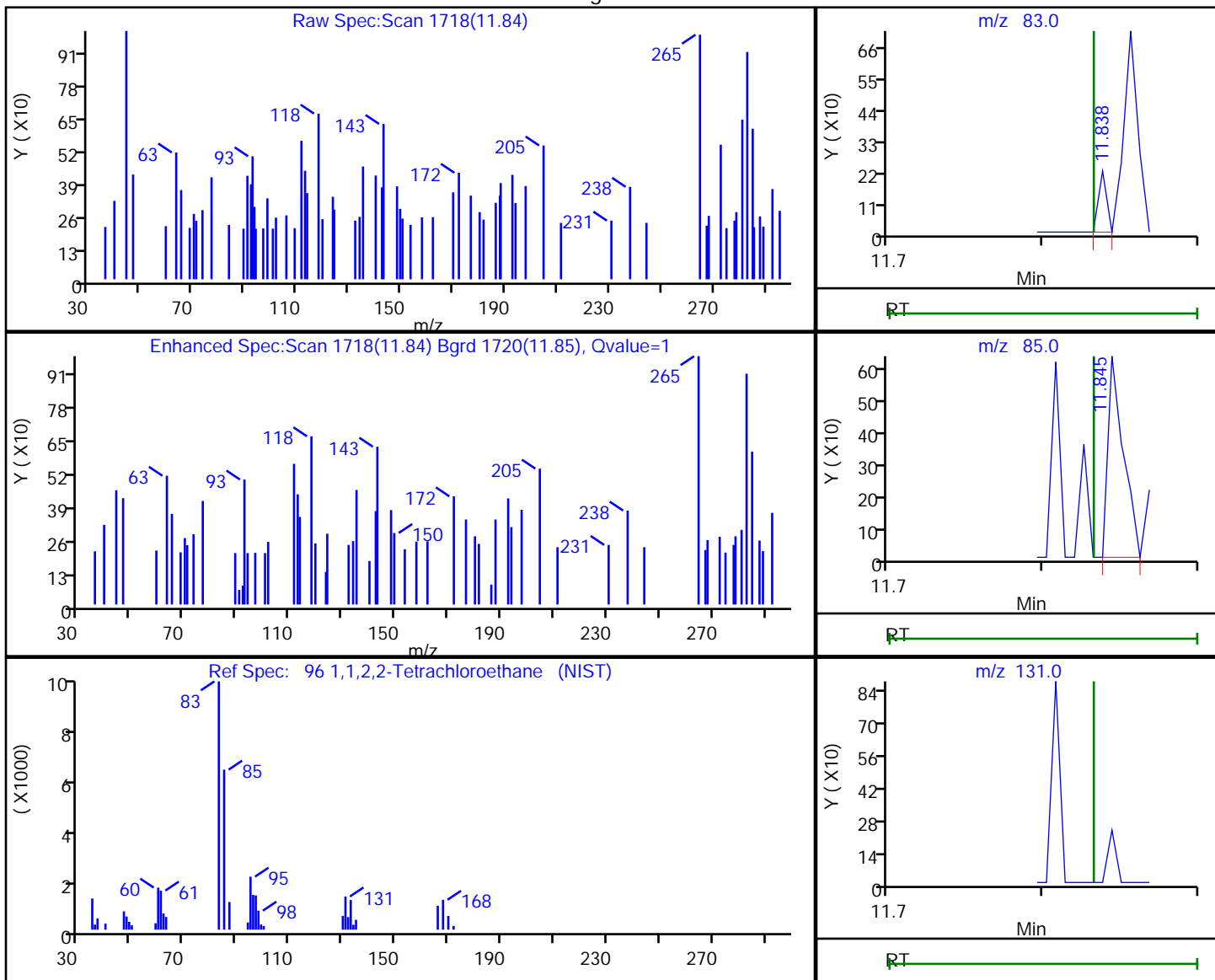
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101911.D
Injection Date: 19-Oct-2019 17:54:30 Instrument ID: CHHP6
Lims ID: 180-97133-A-3 Lab Sample ID: 180-97133-3
Client ID: HD-MW-5-0/1-0
Operator ID: 433269 ALS Bottle#: 5 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

96 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Processing Results



RT	Mass	Response	Amount
11.84	83.00	79	0.039877
11.84	85.00	438	
11.83	131.00	0	

Reviewer: bowieh, 22-Oct-2019 09:46:34

Audit Action: Marked Compound Undetected

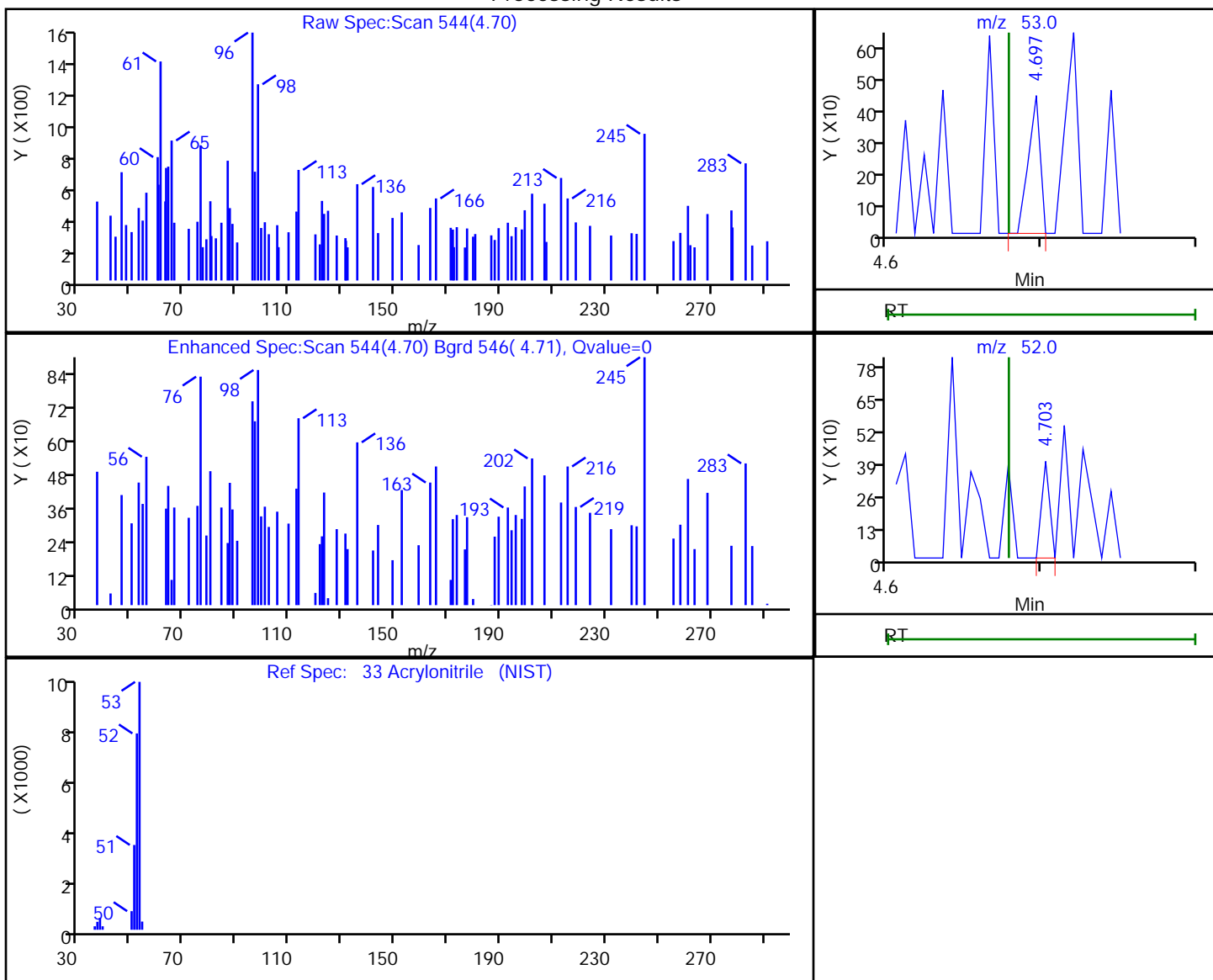
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101911.D
 Injection Date: 19-Oct-2019 17:54:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-3 Lab Sample ID: 180-97133-3
 Client ID: HD-MW-5-0/1-0
 Operator ID: 433269 ALS Bottle#: 5 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

33 Acrylonitrile, CAS: 107-13-1

Processing Results



RT	Mass	Response	Amount
4.70	53.00	235	0.272556
4.70	52.00	143	

Reviewer: bowieh, 22-Oct-2019 09:45:44

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1
 SDG No.: _____
 Client Sample ID: HD-MW-111-0/1-0 Lab Sample ID: 180-97133-4
 Matrix: Water Lab File ID: 6101912.D
 Analysis Method: EPA 8260C Date Collected: 10/09/2019 14:05
 Sample wt/vol: 5 (mL) Date Analyzed: 10/19/2019 18:20
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 295448 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	ND		1.0	0.90
75-01-4	Vinyl chloride	ND		1.0	0.88
74-83-9	Bromomethane	ND		1.0	0.89
75-00-3	Chloroethane	ND		1.0	0.90
75-35-4	1,1-Dichloroethene	ND		1.0	0.55
67-64-1	Acetone	ND		5.0	3.4
75-15-0	Carbon disulfide	ND		1.0	0.88
75-09-2	Methylene Chloride	ND		1.0	0.89
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.67
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.59
75-34-3	1,1-Dichloroethane	ND		1.0	0.63
156-59-2	cis-1,2-Dichloroethene	2.7		1.0	0.71
74-97-5	Bromochloromethane	ND		1.0	0.63
78-93-3	2-Butanone (MEK)	ND		5.0	2.6
67-66-3	Chloroform	ND		1.0	0.60
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.60
56-23-5	Carbon tetrachloride	ND		1.0	0.88
71-43-2	Benzene	ND		1.0	0.60
107-06-2	1,2-Dichloroethane	ND		1.0	0.57
79-01-6	Trichloroethene	ND		1.0	0.69
78-87-5	1,2-Dichloropropane	ND		1.0	0.66
75-27-4	Bromodichloromethane	ND		1.0	0.64
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.59
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	3.1
108-88-3	Toluene	ND		1.0	0.46
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.58
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.45
127-18-4	Tetrachloroethene	ND		1.0	0.47
591-78-6	2-Hexanone	ND		5.0	3.3
124-48-1	Dibromochloromethane	ND		1.0	0.84
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.50
108-90-7	Chlorobenzene	ND		1.0	0.50
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.57
100-41-4	Ethylbenzene	ND		1.0	0.51
1330-20-7	Xylenes, Total	ND		2.0	0.89
100-42-5	Styrene	ND		1.0	0.47

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1
 SDG No.: _____
 Client Sample ID: HD-MW-111-0/1-0 Lab Sample ID: 180-97133-4
 Matrix: Water Lab File ID: 6101912.D
 Analysis Method: EPA 8260C Date Collected: 10/09/2019 14:05
 Sample wt/vol: 5 (mL) Date Analyzed: 10/19/2019 18:20
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 295448 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	ND		1.0	0.98
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.60
107-13-1	Acrylonitrile	ND		20	7.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	112		70-150
2037-26-5	Toluene-d8 (Surr)	108		78-128
460-00-4	4-Bromofluorobenzene (Surr)	102		64-123
1868-53-7	Dibromofluoromethane (Surr)	108		75-147

Eurofins TestAmerica, Pittsburgh
Target Compound Quantitation Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101912.D
 Lims ID: 180-97133-C-4
 Client ID: HD-MW-111-0/1-0
 Sample Type: Client
 Inject. Date: 19-Oct-2019 18:20:30 ALS Bottle#: 6 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-0029191-012
 Misc. Info.: 180-97133-c-4
 Operator ID: 433269 Instrument ID: CHHP6
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C_D ICAL
 Last Update: 22-Oct-2019 09:49:27 Calib Date: 18-Oct-2019 18:47:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101817.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX0302

First Level Reviewer: bowieh

Date: 22-Oct-2019 09:49:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.428	4.429	-0.001	92	136385	1000.0	
* 2 Fluorobenzene (IS)	96	7.409	7.410	-0.001	98	453970	50.0	
* 3 Chlorobenzene-d5	119	10.512	10.513	-0.001	89	108835	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.848	12.855	-0.007	98	163862	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.685	6.686	-0.001	91	114980	53.9	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	7.056	7.057	-0.001	92	182663	56.0	
\$ 7 Toluene-d8 (Surr)	98	9.052	9.053	-0.001	95	425947	53.8	
\$ 8 4-Bromofluorobenzene (Surr	95	11.692	11.693	-0.001	0	166351	50.9	
12 Chloromethane	50		1.886				ND	U
13 Vinyl chloride	62		2.008				ND	U
15 Bromomethane	94		2.355				ND	U
16 Chloroethane	64		2.495				ND	U
22 1,1-Dichloroethene	96	3.479	3.468	0.011	33	2595	1.19	
24 Acetone	43		3.584				ND	U
26 Carbon disulfide	76		3.766				ND	U
31 Methylene Chloride	84		4.289				ND	U
33 Acrylonitrile	53		4.679				ND	U
34 trans-1,2-Dichloroethene	96		4.709				ND	U
35 Methyl tert-butyl ether	73		4.715				ND	U
37 1,1-Dichloroethane	63		5.336				ND	
43 cis-1,2-Dichloroethene	96	6.077	6.078	-0.001	84	36337	13.4	
44 2-Butanone (MEK)	43		6.090				ND	U
48 Chlorobromomethane	128		6.358				ND	
50 Chloroform	83		6.510				ND	U
51 1,1,1-Trichloroethane	97		6.662				ND	U
53 Carbon tetrachloride	117		6.826				ND	U
56 Benzene	78		7.063				ND	U
57 1,2-Dichloroethane	62		7.142				ND	U
61 Trichloroethene	130	7.780	7.793	-0.013	22	7011	2.40	
64 1,2-Dichloropropane	63		8.061				ND	U
68 Dichlorobromomethane	83		8.347				ND	U

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101912.D

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
71 cis-1,3-Dichloropropene	75		8.797				ND	U
72 4-Methyl-2-pentanone (MIBK)	43		8.955				ND	U
73 Toluene	91	9.119	9.126	-0.007	51	2649	0.2706	
74 trans-1,3-Dichloropropene	75		9.369				ND	
76 1,1,2-Trichloroethane	97		9.570				ND	U
77 Tetrachloroethene	164		9.631				ND	U
79 2-Hexanone	43		9.789				ND	U
81 Chlorodibromomethane	129		9.935				ND	U
82 Ethylene Dibromide	107		10.044				ND	U
84 Chlorobenzene	112		10.537				ND	U
87 Ethylbenzene	106		10.634				ND	U
86 1,1,1,2-Tetrachloroethane	131		10.634				ND	U
88 m-Xylene & p-Xylene	106	10.767	10.762	0.005	1	1326	0.2850	
89 o-Xylene	106		11.145				ND	U
90 Styrene	104		11.170				ND	
91 Bromoform	173		11.352				ND	
96 1,1,2,2-Tetrachloroethane	83		11.833				ND	U
S 131 Xylenes, Total	106				0		0.2850	

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

voaWI/SHP5_00014

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101912.D

Injection Date: 19-Oct-2019 18:20:30

Instrument ID: CHHP6

Operator ID: 433269

Lims ID: 180-97133-C-4

Lab Sample ID: 180-97133-4

Worklist Smp#: 12

Client ID: HD-MW-111-0/1-0

Purge Vol: 5.000 mL

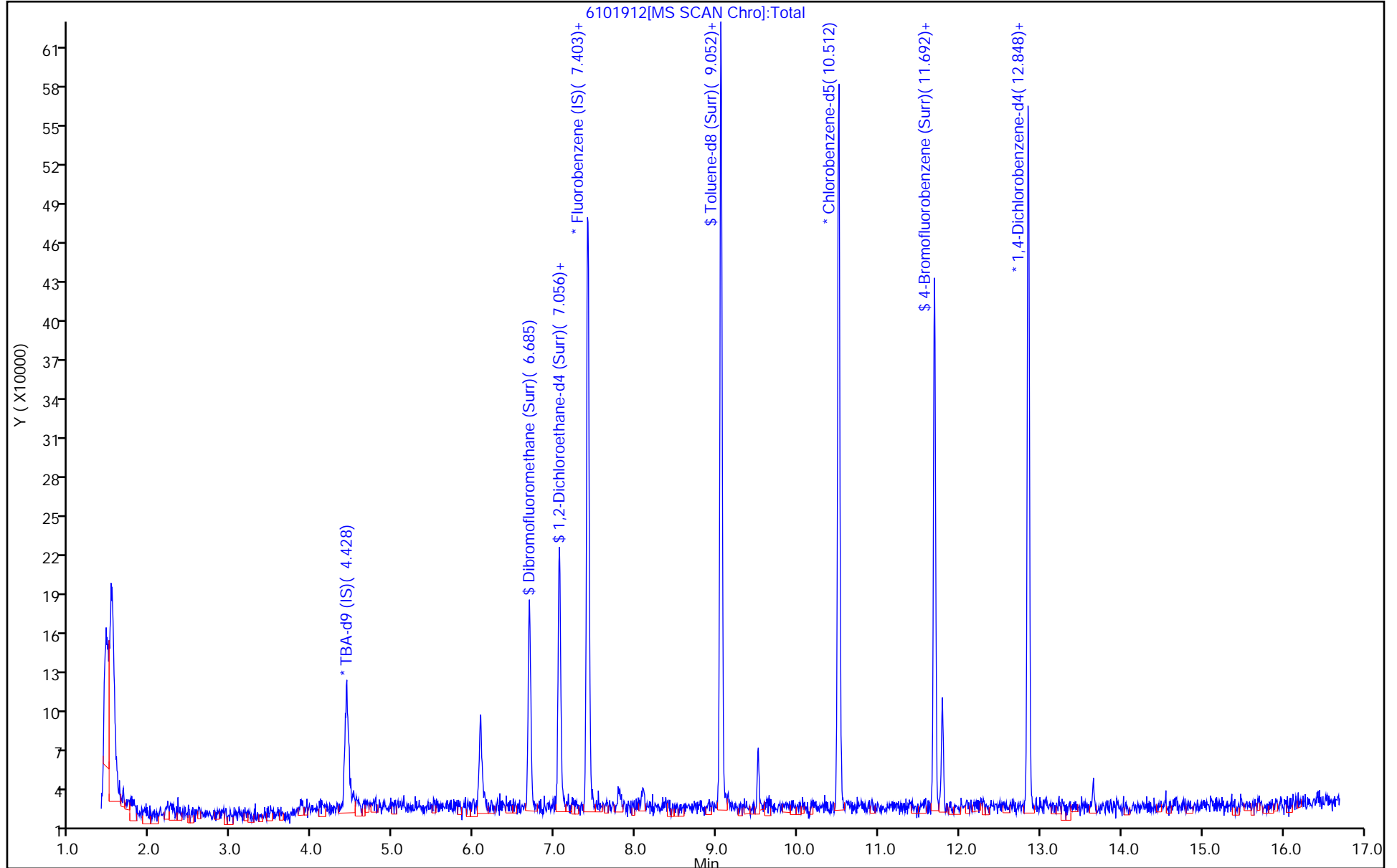
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C_D ICAL

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Pittsburgh
Recovery Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101912.D
 Lims ID: 180-97133-C-4
 Client ID: HD-MW-111-0/1-0
 Sample Type: Client
 Inject. Date: 19-Oct-2019 18:20:30 ALS Bottle#: 6 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-0029191-012
 Misc. Info.: 180-97133-c-4
 Operator ID: 433269 Instrument ID: CHHP6
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C_D ICAL
 Last Update: 22-Oct-2019 09:49:27 Calib Date: 18-Oct-2019 18:47:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101817.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX0302

First Level Reviewer: bowieh Date: 22-Oct-2019 09:49:27

Compound	Amount Added	Amount Recovered	% Rec.
\$ 5 Dibromofluoromethane (Surr)	50.0	53.9	107.82
\$ 6 1,2-Dichloroethane-d4 (Surr)	50.0	56.0	112.07
\$ 7 Toluene-d8 (Surr)	50.0	53.8	107.61
\$ 8 4-Bromofluorobenzene (Surr)	50.0	50.9	101.79

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101912.D

Injection Date: 19-Oct-2019 18:20:30

Instrument ID: CHHP6

Lims ID: 180-97133-C-4

Lab Sample ID: 180-97133-4

Client ID: HD-MW-111-0/1-0

Operator ID: 433269

ALS Bottle#: 6

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

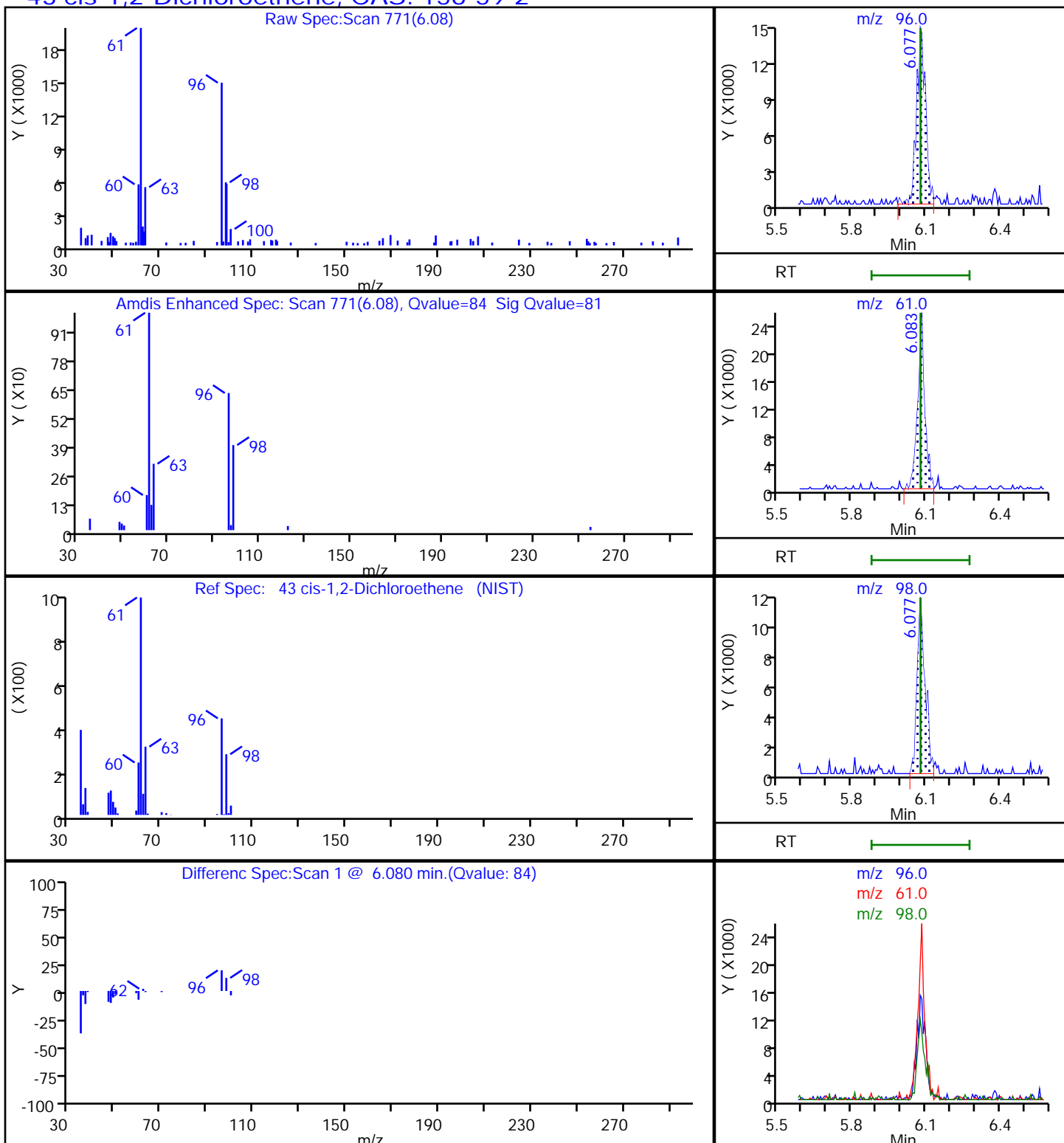
Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C_D ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

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

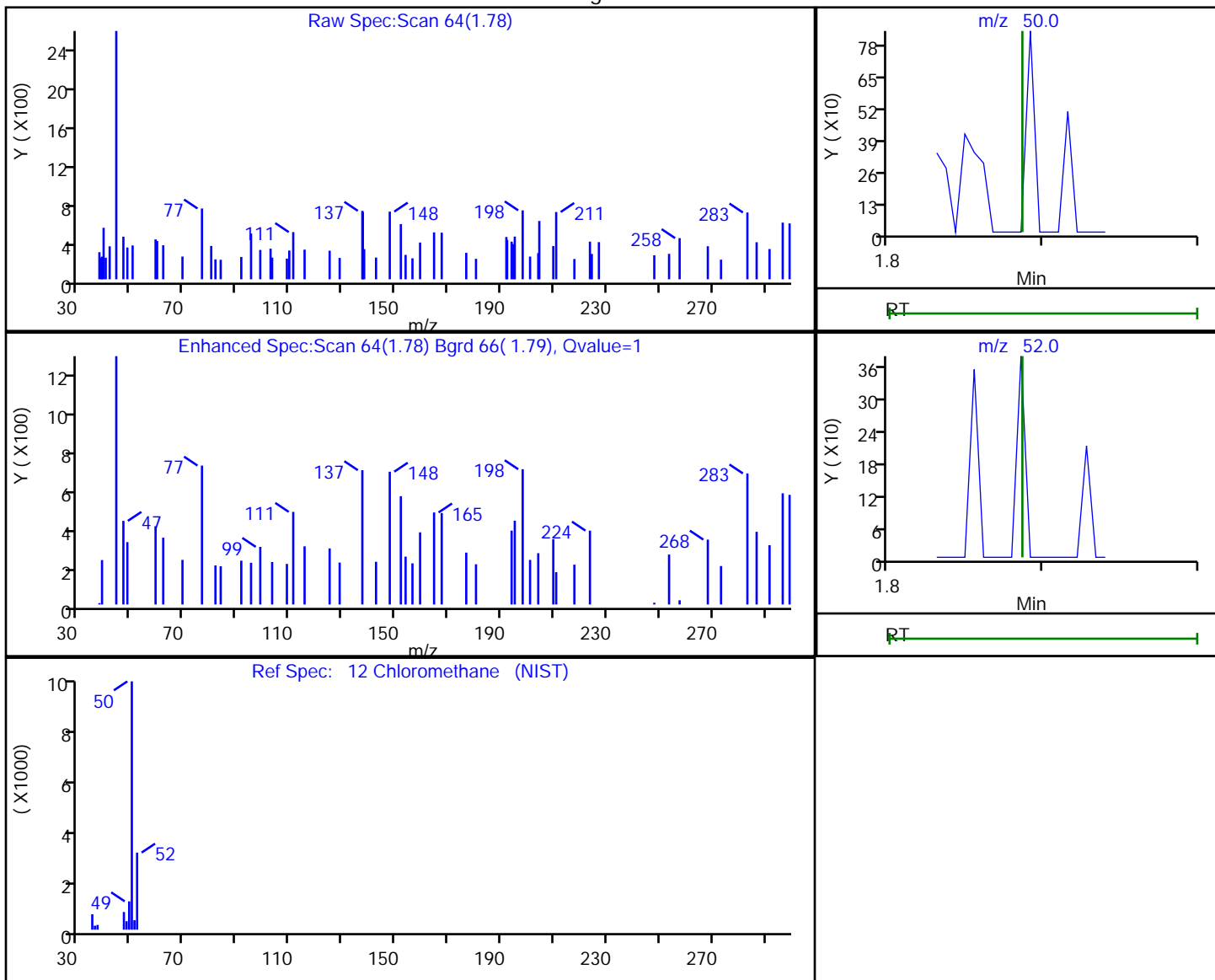


Eurofins TestAmerica, Pittsburgh

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Injection Date: 19-Oct-2019 18:20:30 Instrument ID: CHHP6
Lims ID: 180-97133-C-4 Lab Sample ID: 180-97133-4
Client ID: HD-MW-111-0/1-0
Operator ID: 433269 ALS Bottle#: 6 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

12 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
1.78	50.00	127	0.033099
1.76	52.00	308	

Reviewer: bowieh, 22-Oct-2019 09:48:24

Audit Action: Marked Compound Undetected

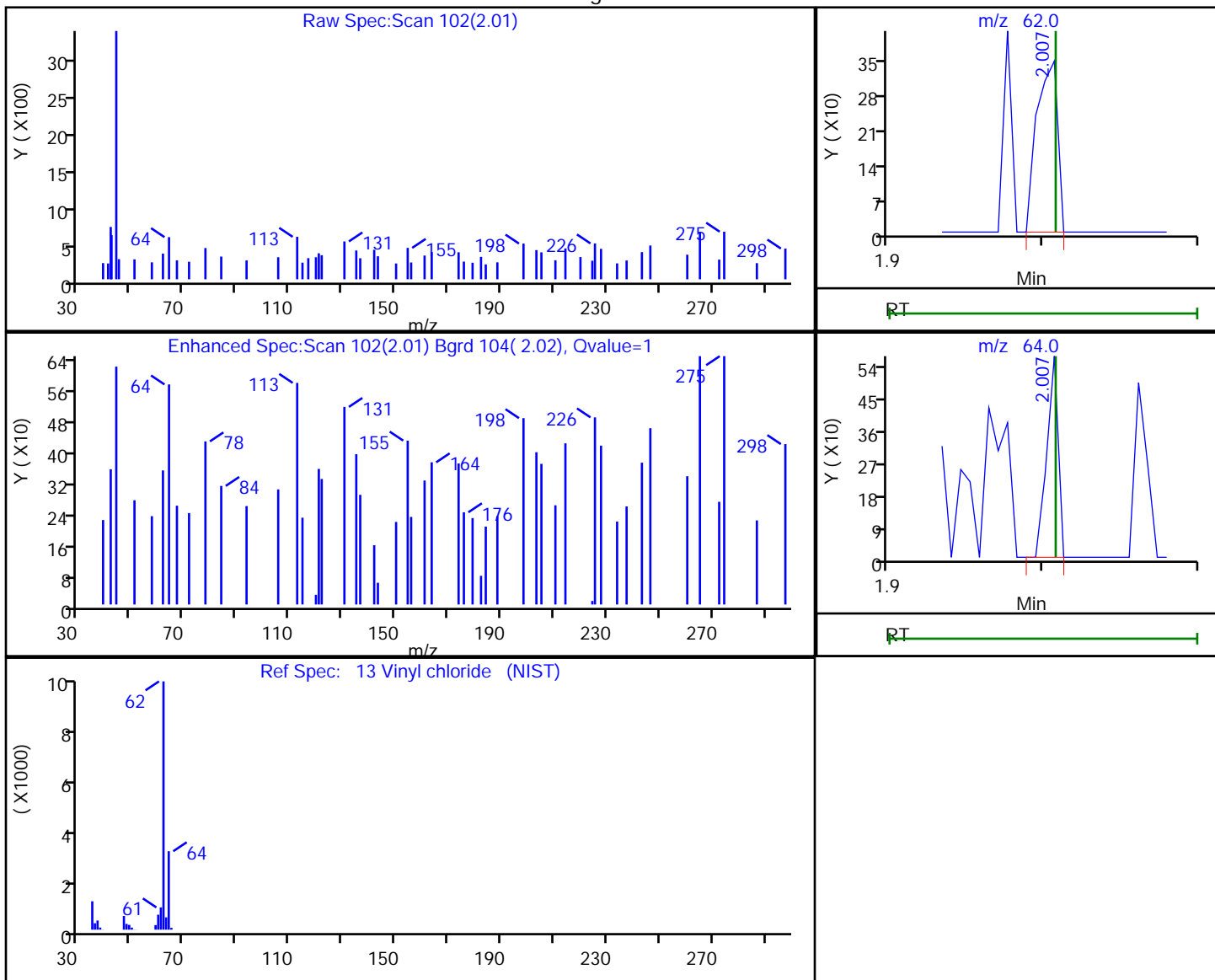
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Client ID: HD-MW-111-0/1-0
 Operator ID: 433269 ALS Bottle#: 6 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

13 Vinyl chloride, CAS: 75-01-4

Processing Results



RT	Mass	Response	Amount
2.01	62.00	324	0.099485
2.01	64.00	292	

Reviewer: bowieh, 22-Oct-2019 09:48:25

Audit Action: Marked Compound Undetected

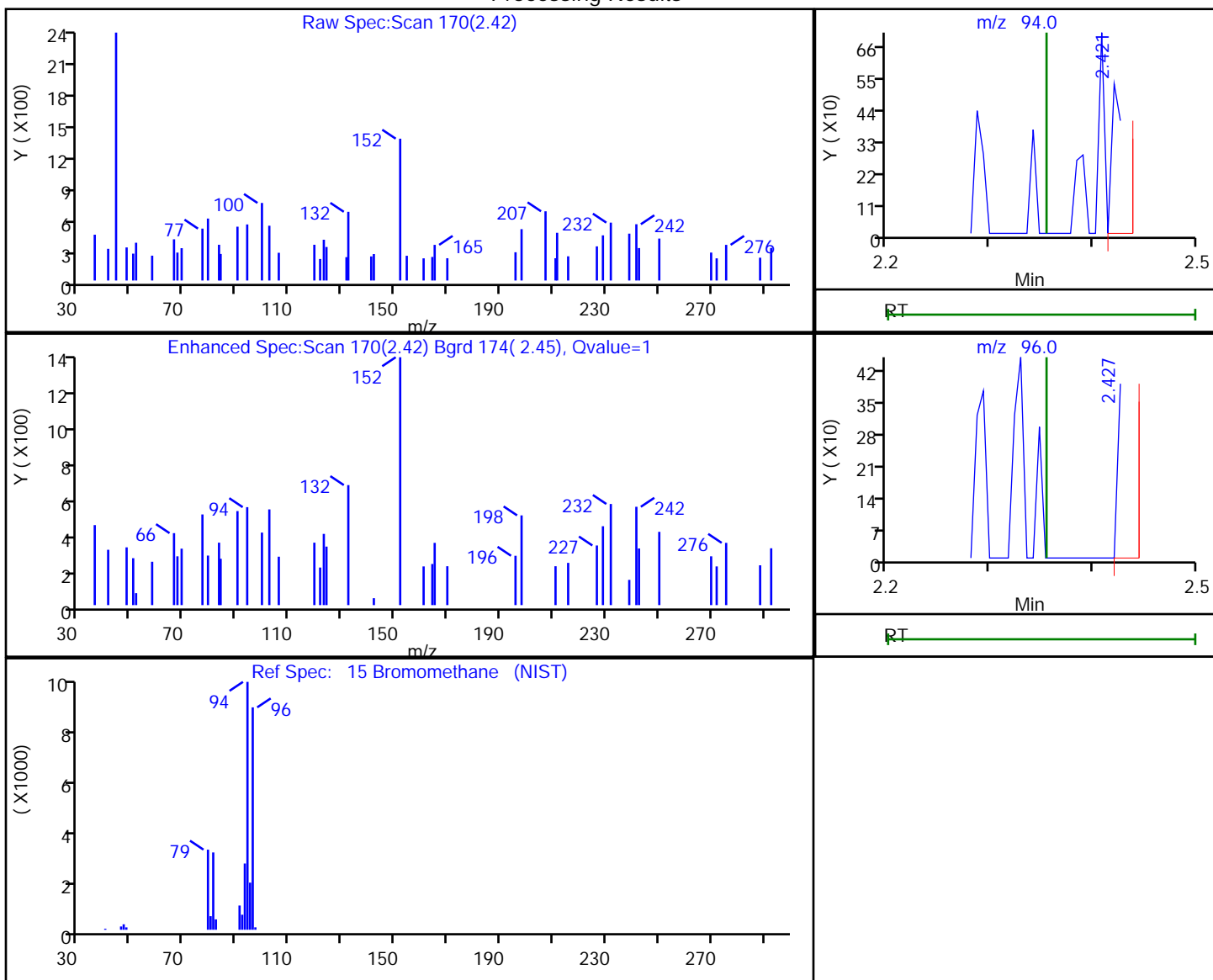
Audit Reason: Invalid Compound ID

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 Lims ID: 180-97133-C-4 Lab Sample ID: 180-97133-4
 Client ID: HD-MW-111-0/1-0
 Operator ID: 433269 ALS Bottle#: 6 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

15 Bromomethane, CAS: 74-83-9

Processing Results



RT	Mass	Response	Amount
2.42	94.00	495	0.360174
2.43	96.00	366	

Reviewer: bowieh, 22-Oct-2019 09:48:26

Audit Action: Marked Compound Undetected

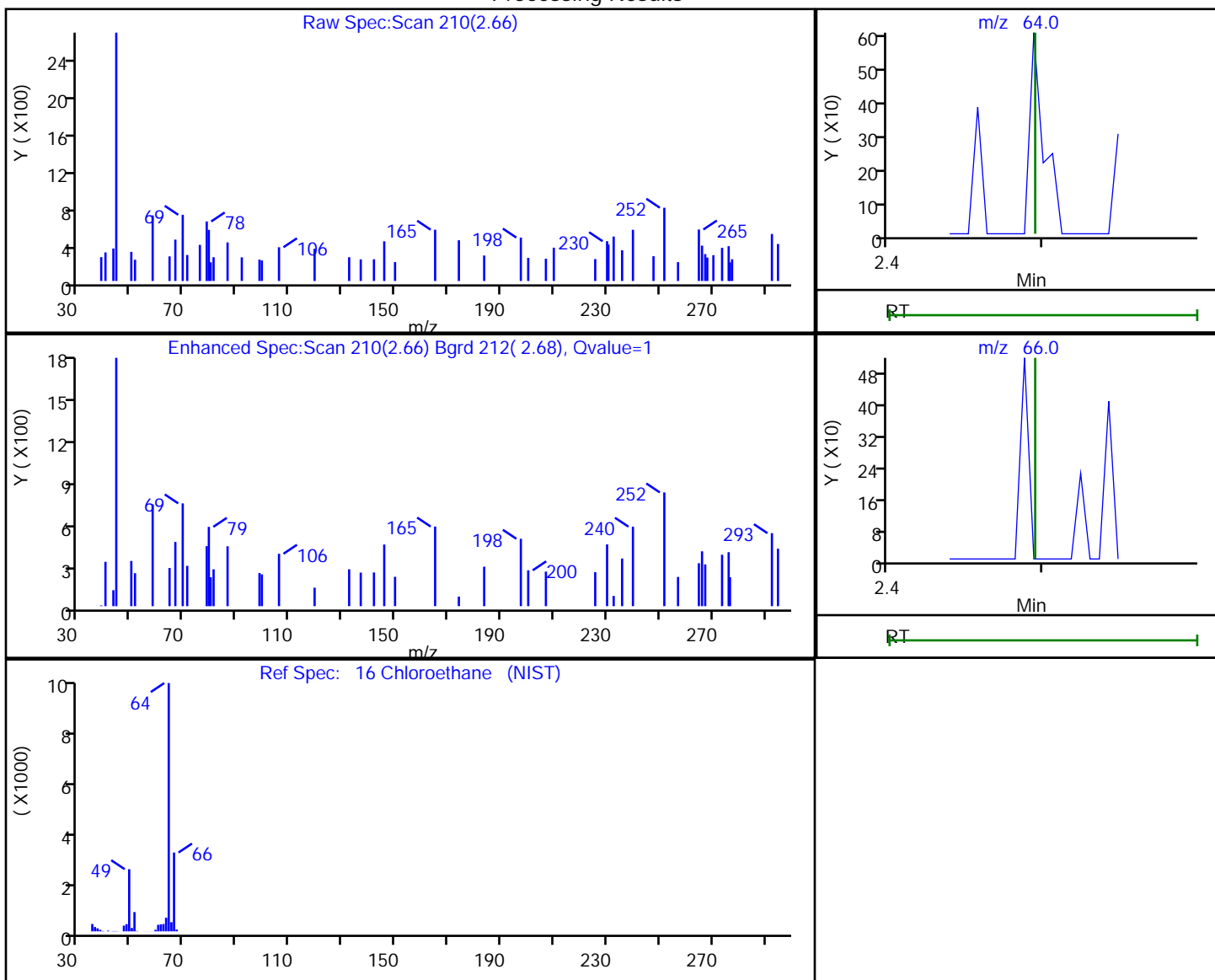
Audit Reason: Invalid Compound ID

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 Lims ID: 180-97133-C-4 Lab Sample ID: 180-97133-4
 Client ID: HD-MW-111-0/1-0
 Operator ID: 433269 ALS Bottle#: 6 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

16 Chloroethane, CAS: 75-00-3

Processing Results



RT	Mass	Response	Amount
2.66	64.00	187	-2.675407
2.66	66.00	508	

Reviewer: bowieh, 22-Oct-2019 09:48:27

Audit Action: Marked Compound Undetected

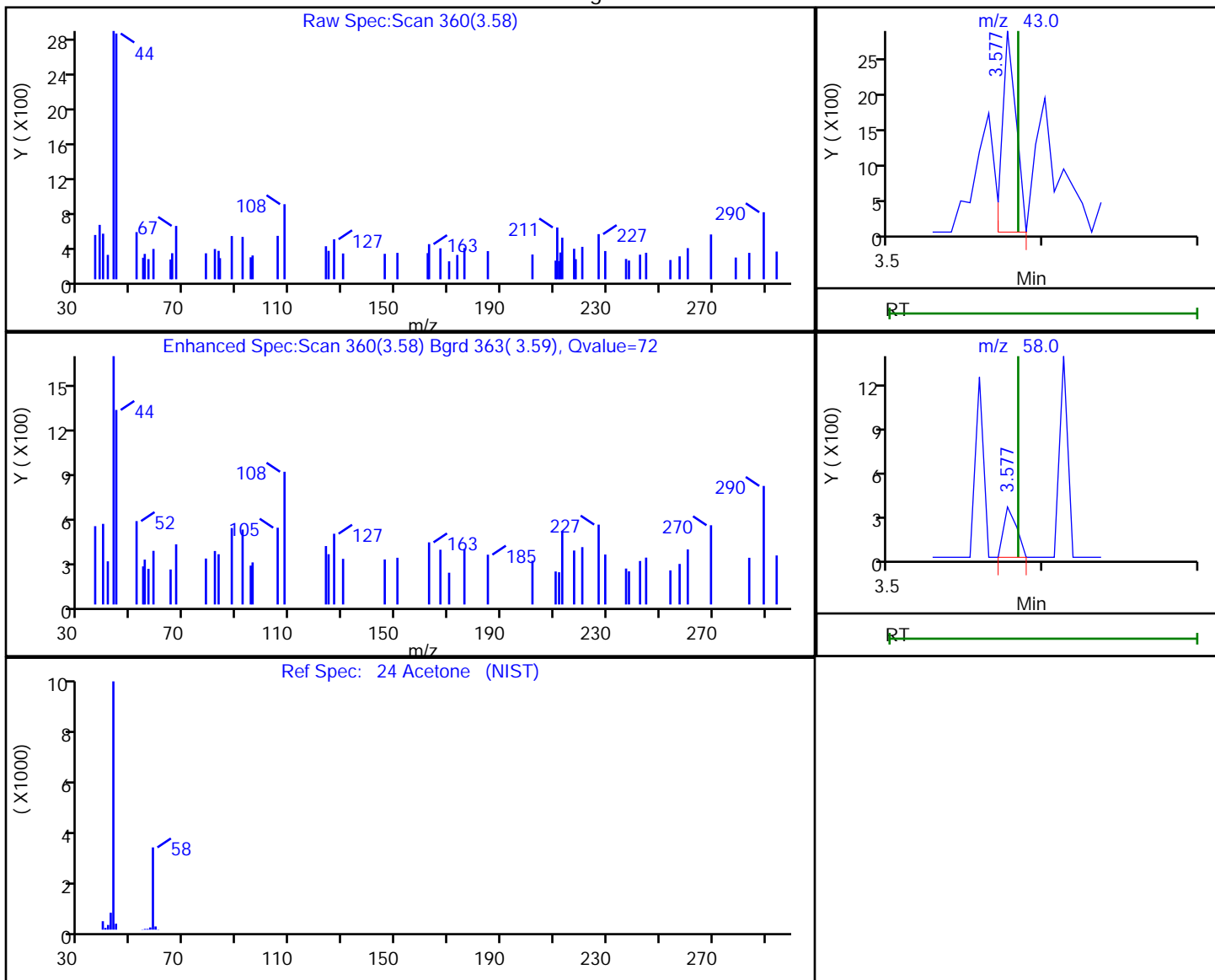
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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Lims ID: 180-97133-C-4 Lab Sample ID: 180-97133-4
Client ID: HD-MW-111-0/1-0
Operator ID: 433269 ALS Bottle#: 6 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

24 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
3.58	43.00	1746	1.362846
3.58	58.00	203	

Reviewer: bowieh, 22-Oct-2019 09:48:35

Audit Action: Marked Compound Undetected

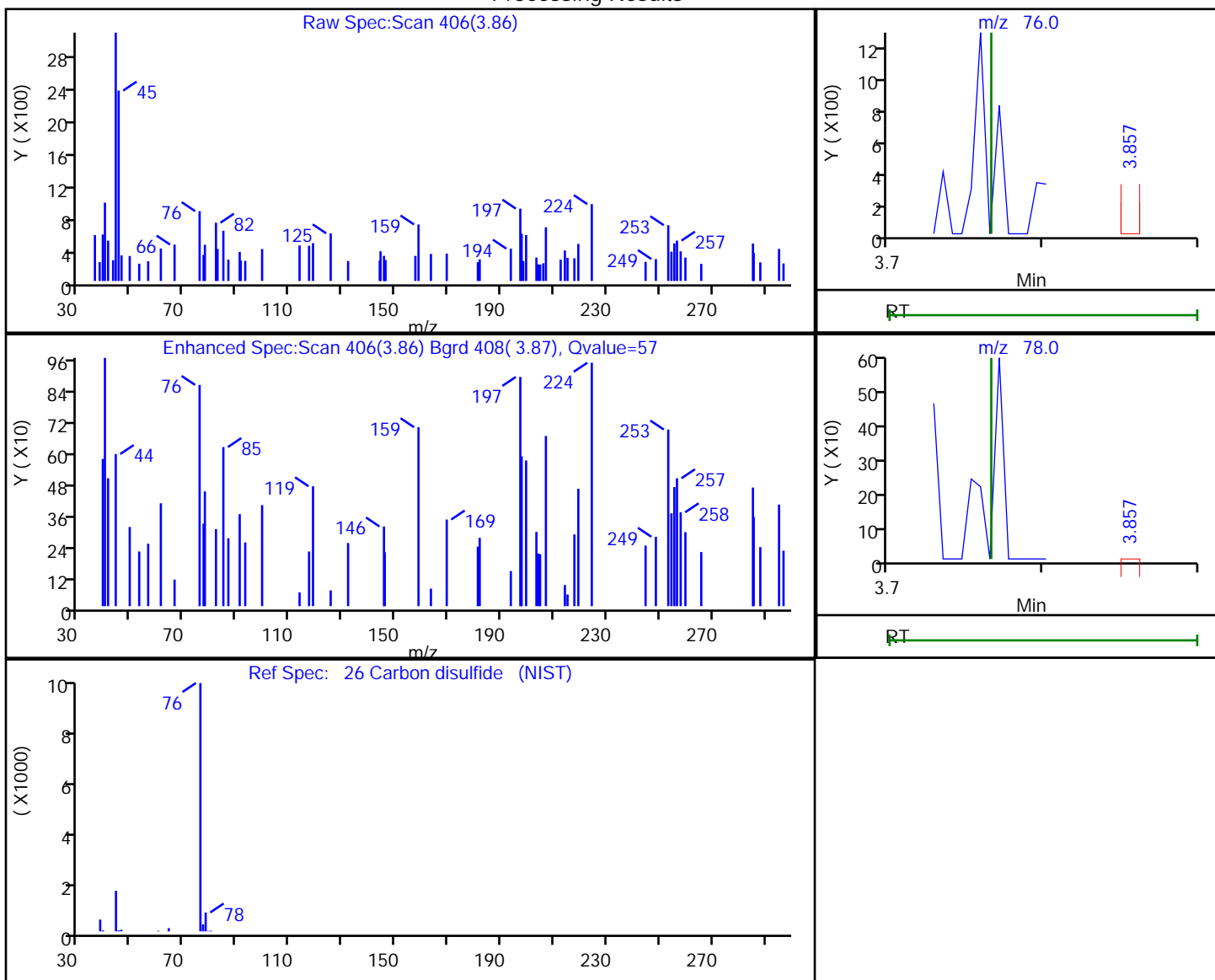
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Lims ID: 180-97133-C-4 Lab Sample ID: 180-97133-4
Client ID: HD-MW-111-0/1-0
Operator ID: 433269 ALS Bottle#: 6 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

26 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
3.86	76.00	313	0.053074
3.86	78.00	162	

Reviewer: bowieh, 22-Oct-2019 09:48:36

Audit Action: Marked Compound Undetected

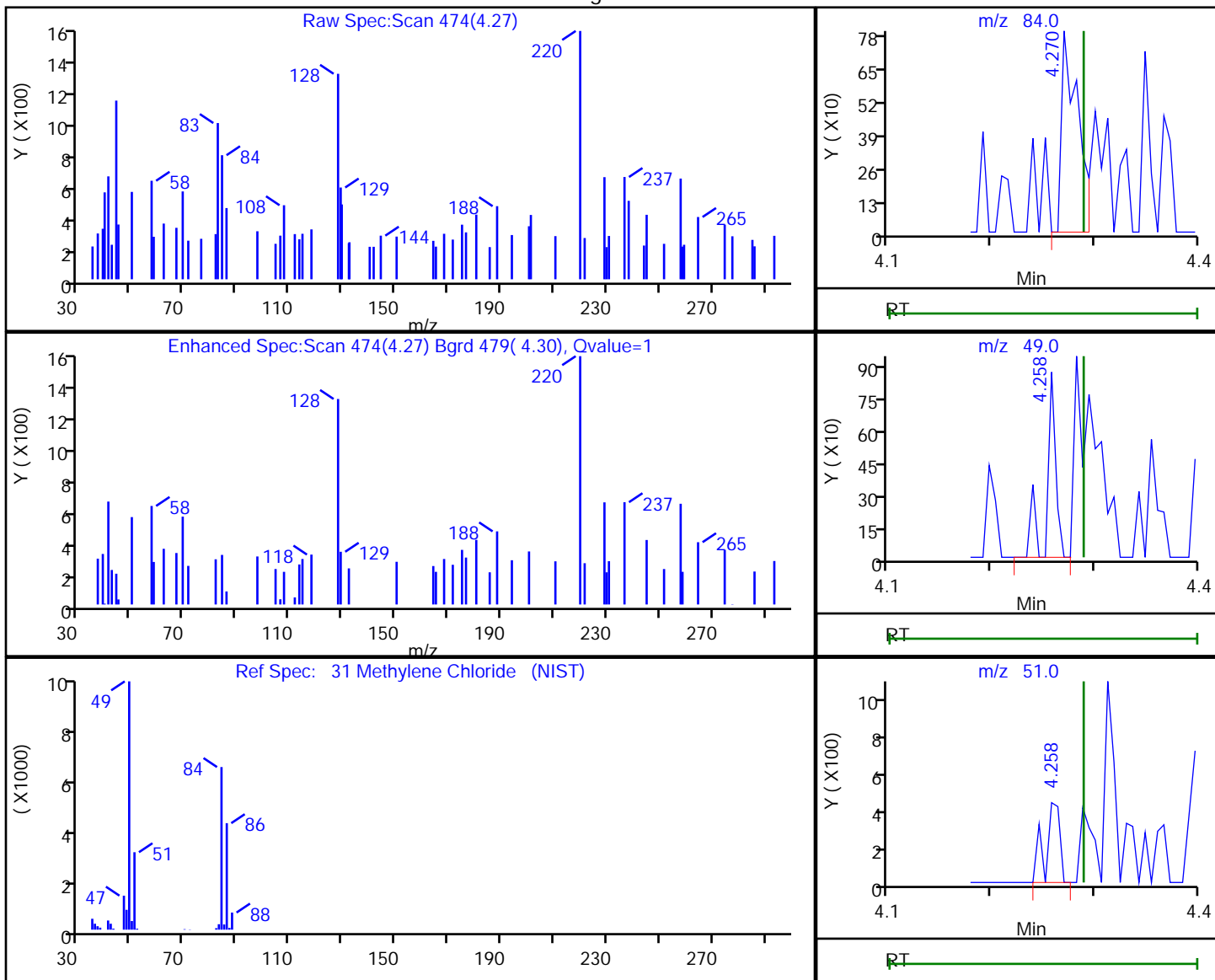
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Lims ID: 180-97133-C-4 Lab Sample ID: 180-97133-4
 Client ID: HD-MW-111-0/1-0
 Operator ID: 433269 ALS Bottle#: 6 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

31 Methylene Chloride, CAS: 75-09-2

Processing Results



RT	Mass	Response	Amount
4.27	84.00	881	-2.632297
4.26	49.00	527	
4.26	51.00	421	

Reviewer: bowieh, 22-Oct-2019 09:48:45

Audit Action: Marked Compound Undetected

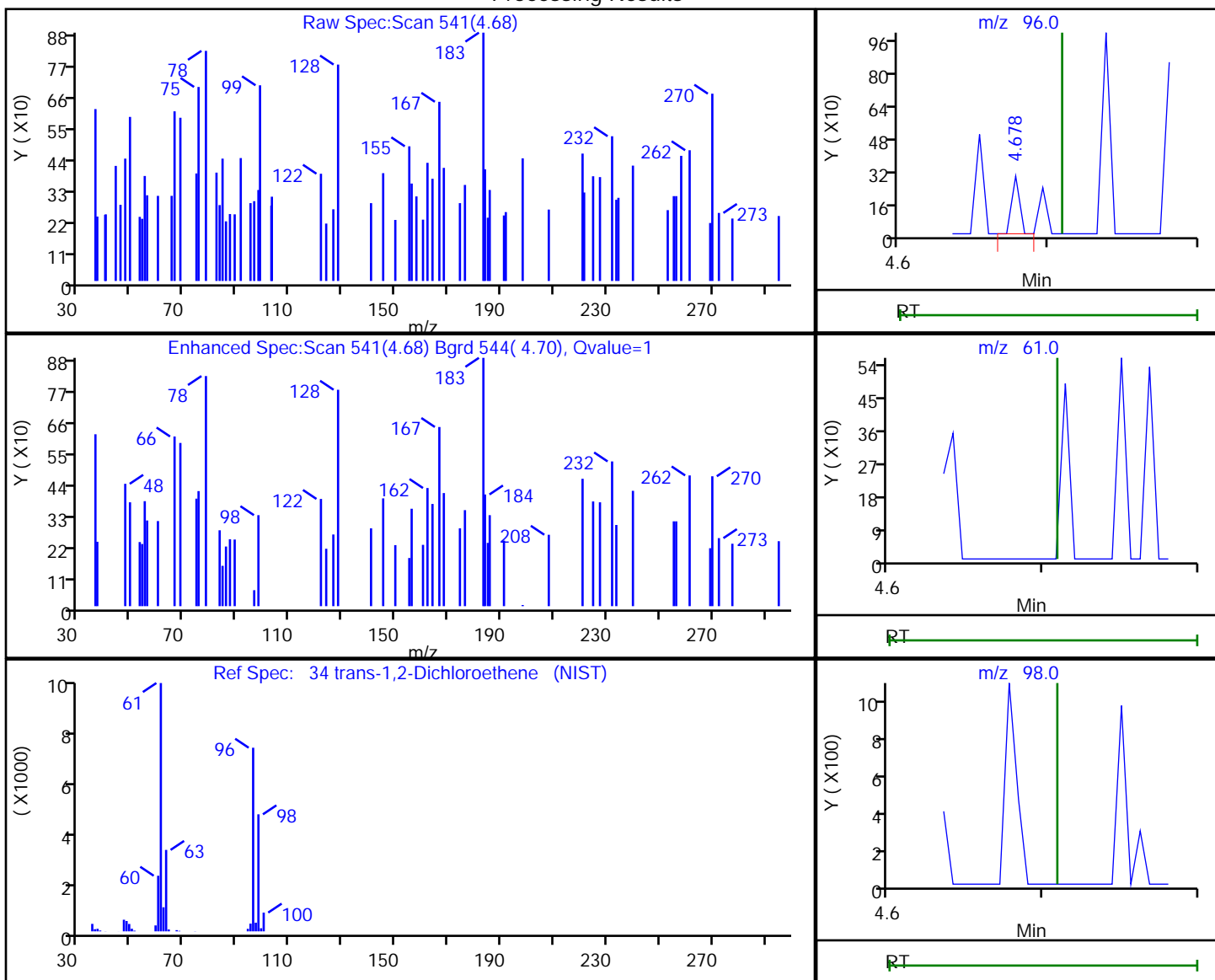
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Lims ID: 180-97133-C-4 Lab Sample ID: 180-97133-4
 Client ID: HD-MW-111-0/1-0
 Operator ID: 433269 ALS Bottle#: 6 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

34 trans-1,2-Dichloroethene, CAS: 156-60-5

Processing Results



RT	Mass	Response	Amount
4.68	96.00	104	0.039740
4.71	61.00	0	
4.71	98.00	0	

Reviewer: bowieh, 22-Oct-2019 09:48:48

Audit Action: Marked Compound Undetected

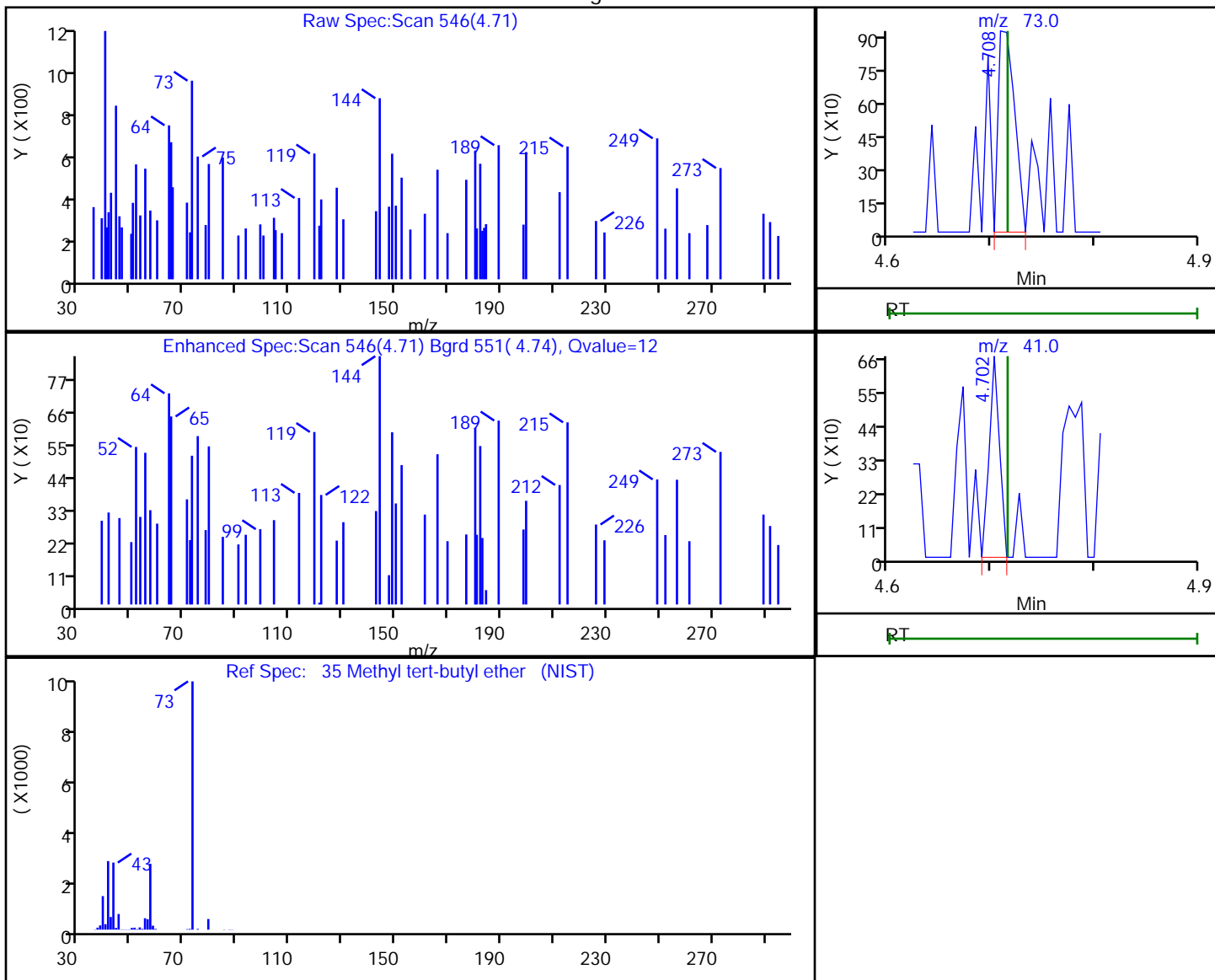
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Client ID: HD-MW-111-0/1-0
 Operator ID: 433269 ALS Bottle#: 6 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

35 Methyl tert-butyl ether, CAS: 1634-04-4

Processing Results



RT	Mass	Response	Amount
4.71	73.00	1034	0.182773
4.70	41.00	458	

Reviewer: bowieh, 22-Oct-2019 09:48:49

Audit Action: Marked Compound Undetected

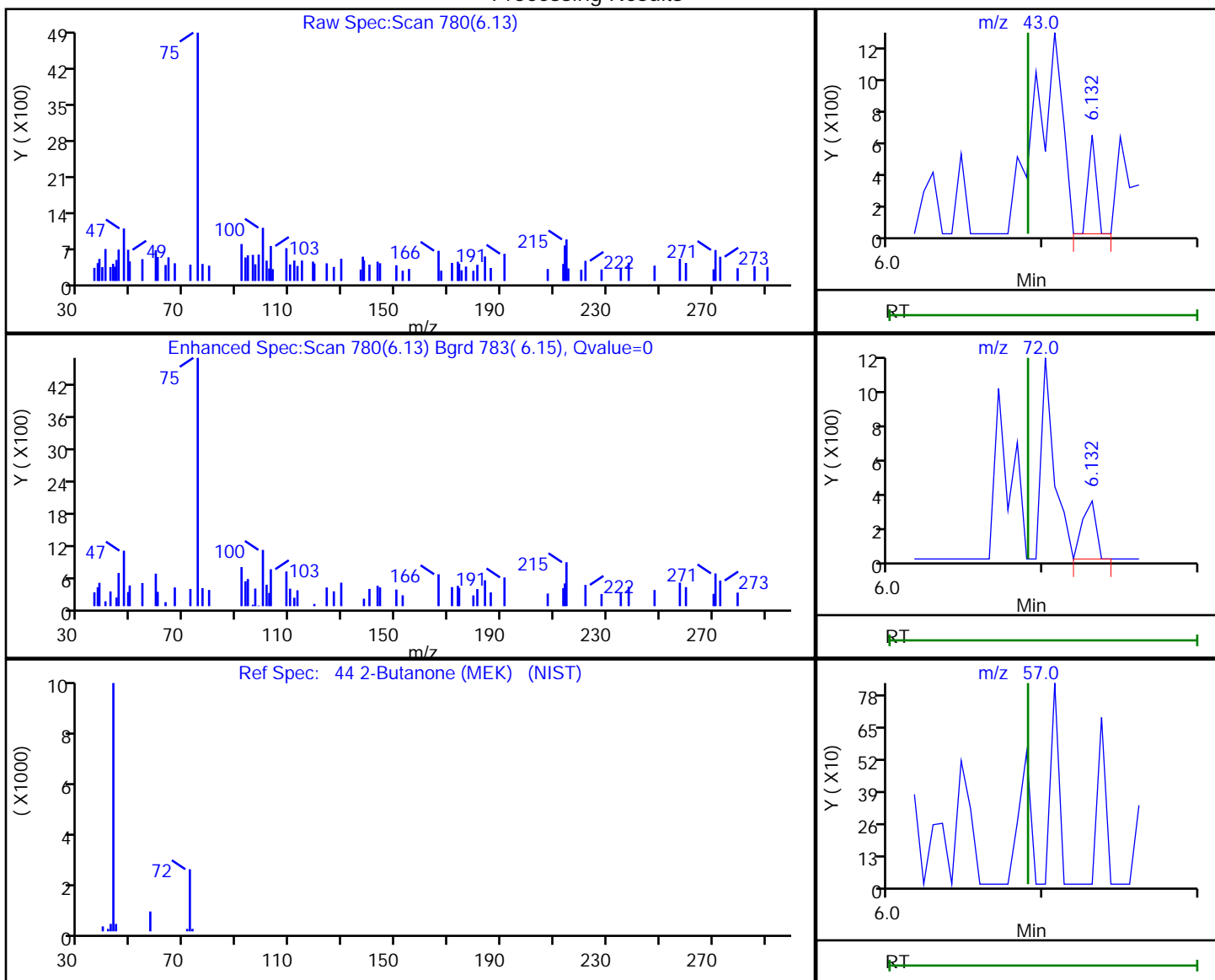
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Eurofins TestAmerica, Pittsburgh

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 Lims ID: 180-97133-C-4 Lab Sample ID: 180-97133-4
 Client ID: HD-MW-111-0/1-0
 Operator ID: 433269 ALS Bottle#: 6 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

44 2-Butanone (MEK), CAS: 78-93-3

Processing Results



RT	Mass	Response	Amount
6.13	43.00	226	0.176069
6.13	72.00	197	
6.09	57.00	0	

Reviewer: bowieh, 22-Oct-2019 09:48:52

Audit Action: Marked Compound Undetected

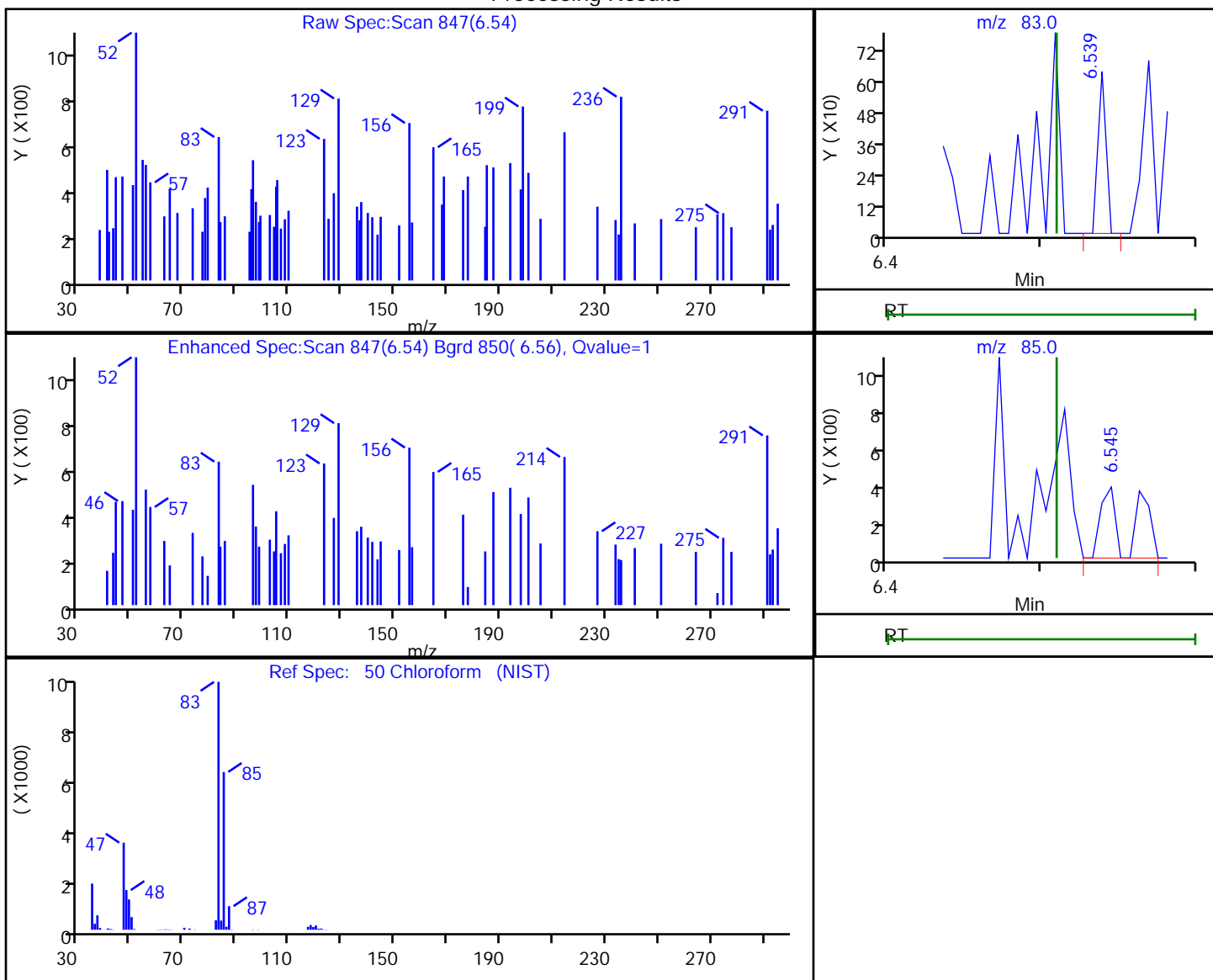
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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Injection Date: 19-Oct-2019 18:20:30 Instrument ID: CHHP6
Lims ID: 180-97133-C-4 Lab Sample ID: 180-97133-4
Client ID: HD-MW-111-0/1-0
Operator ID: 433269 ALS Bottle#: 6 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

50 Chloroform, CAS: 67-66-3

Processing Results



RT	Mass	Response	Amount
6.54	83.00	231	0.048943
6.55	85.00	459	

Reviewer: bowieh, 22-Oct-2019 09:48:54

Audit Action: Marked Compound Undetected

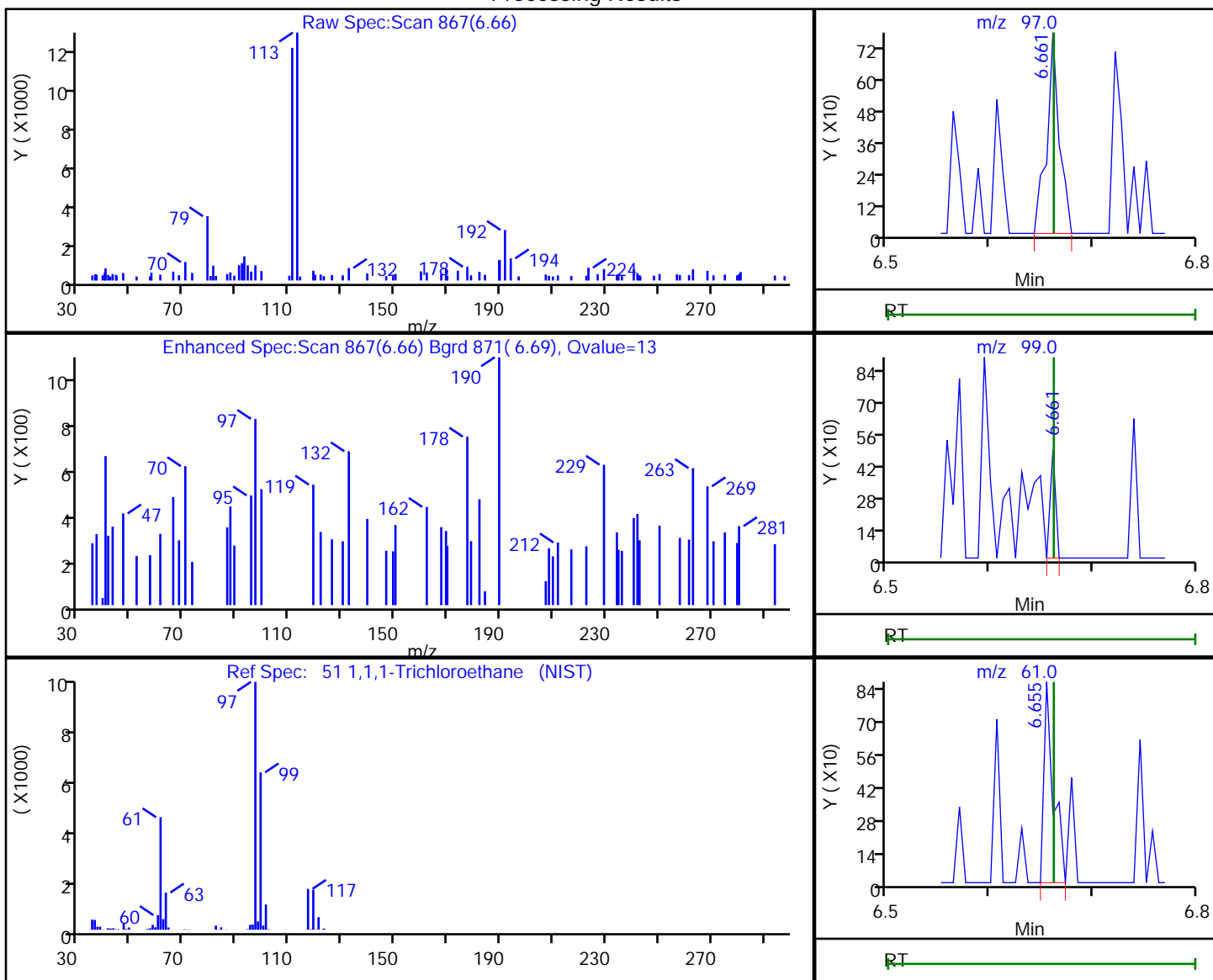
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Injection Date: 19-Oct-2019 18:20:30 Instrument ID: CHHP6
 Lims ID: 180-97133-C-4 Lab Sample ID: 180-97133-4
 Client ID: HD-MW-111-0/1-0
 Operator ID: 433269 ALS Bottle#: 6 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

51 1,1,1-Trichloroethane, CAS: 71-55-6

Processing Results



RT	Mass	Response	Amount
6.66	97.00	661	0.165200
6.66	99.00	177	
6.65	61.00	551	

Reviewer: bowieh, 22-Oct-2019 09:48:55

Audit Action: Marked Compound Undetected

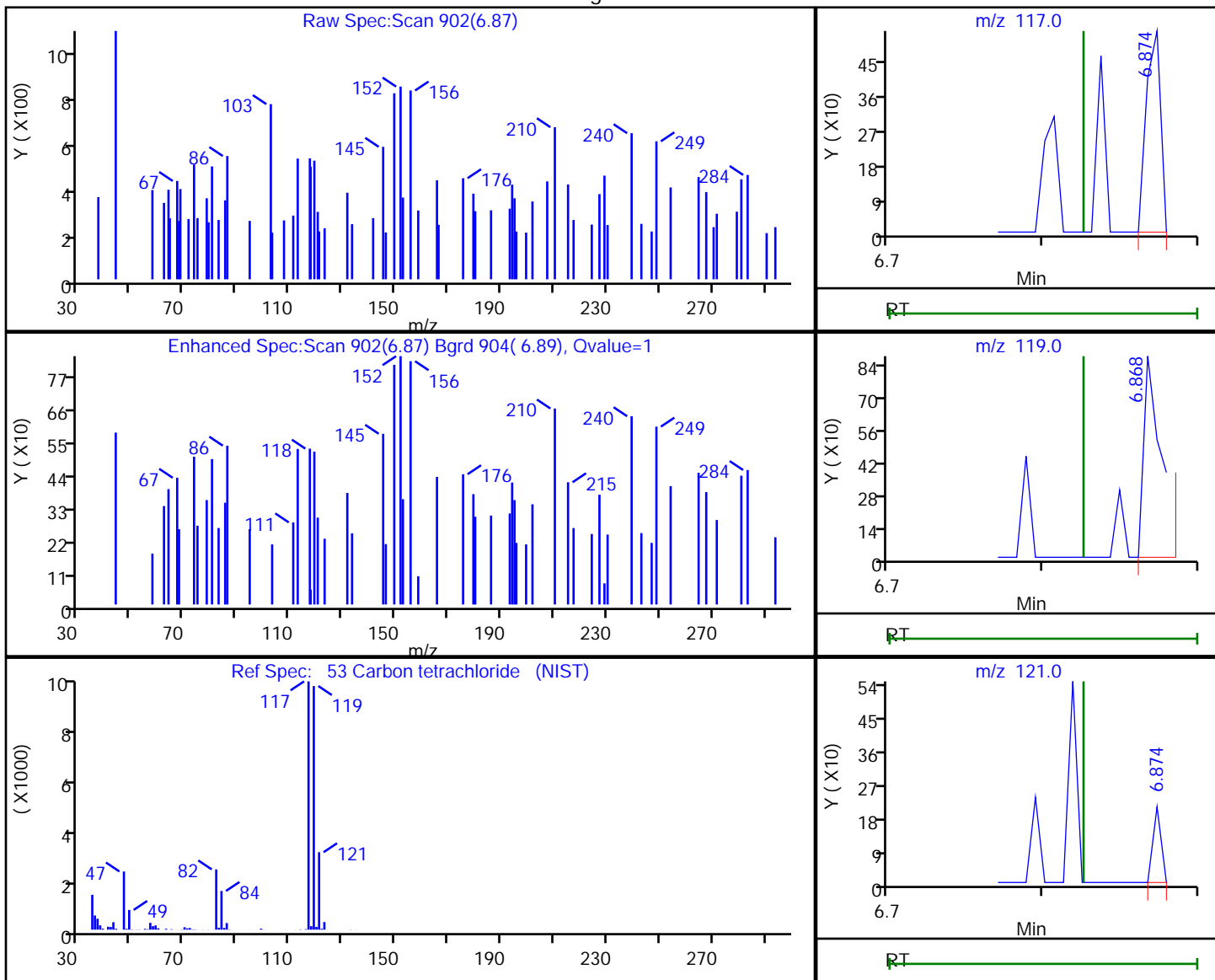
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101912.D
Injection Date: 19-Oct-2019 18:20:30 Instrument ID: CHHP6
Lims ID: 180-97133-C-4 Lab Sample ID: 180-97133-4
Client ID: HD-MW-111-0/1-0
Operator ID: 433269 ALS Bottle#: 6 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

53 Carbon tetrachloride, CAS: 56-23-5

Processing Results



RT	Mass	Response	Amount
6.87	117.00	338	0.099792
6.87	119.00	644	
6.87	121.00	75	

Reviewer: bowieh, 22-Oct-2019 09:48:56

Audit Action: Marked Compound Undetected

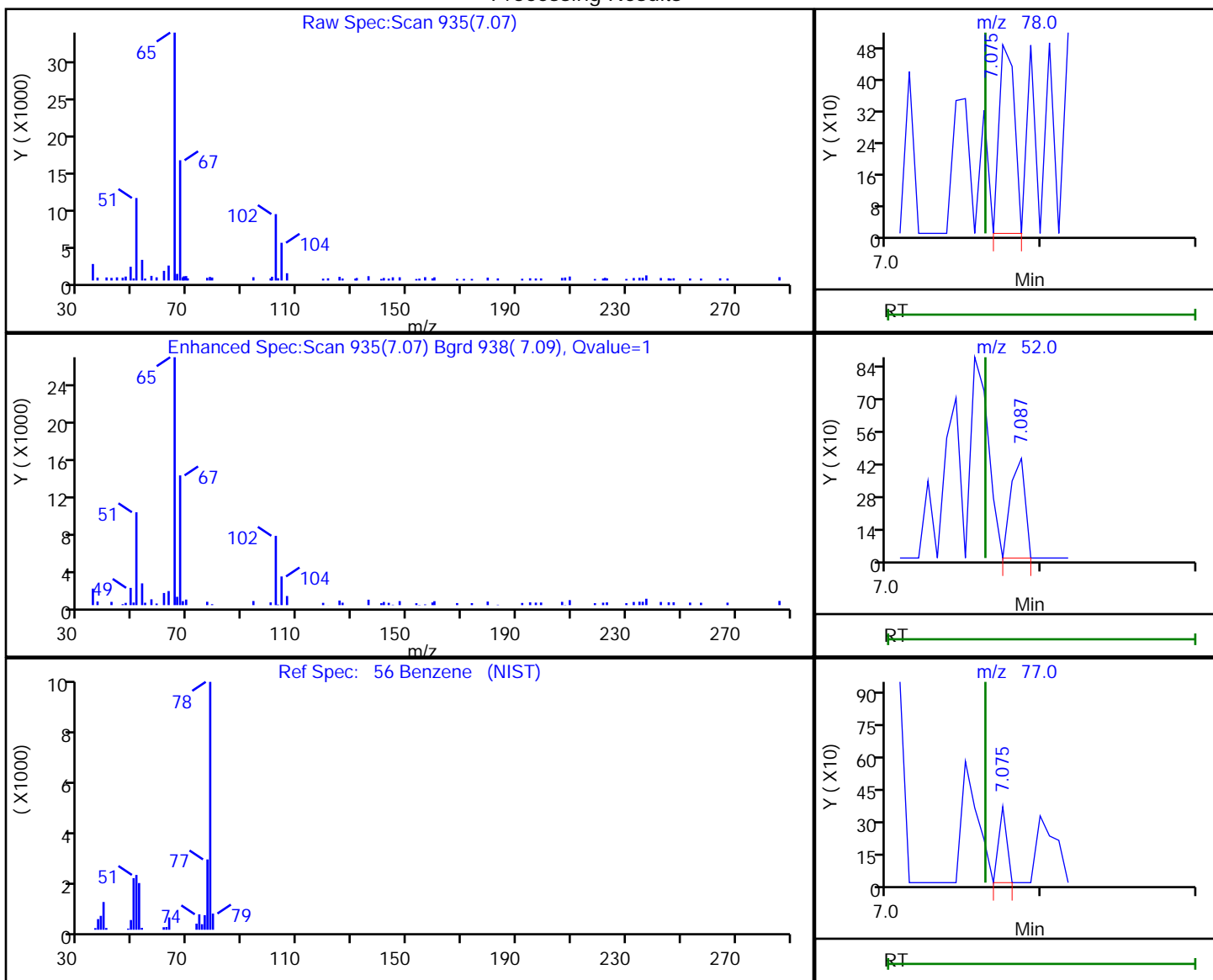
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Injection Date: 19-Oct-2019 18:20:30 Instrument ID: CHHP6
 Lims ID: 180-97133-C-4 Lab Sample ID: 180-97133-4
 Client ID: HD-MW-111-0/1-0
 Operator ID: 433269 ALS Bottle#: 6 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

56 Benzene, CAS: 71-43-2

Processing Results



RT	Mass	Response	Amount
7.07	78.00	330	0.034963
7.09	52.00	282	
7.07	77.00	131	

Reviewer: bowieh, 22-Oct-2019 09:48:57

Audit Action: Marked Compound Undetected

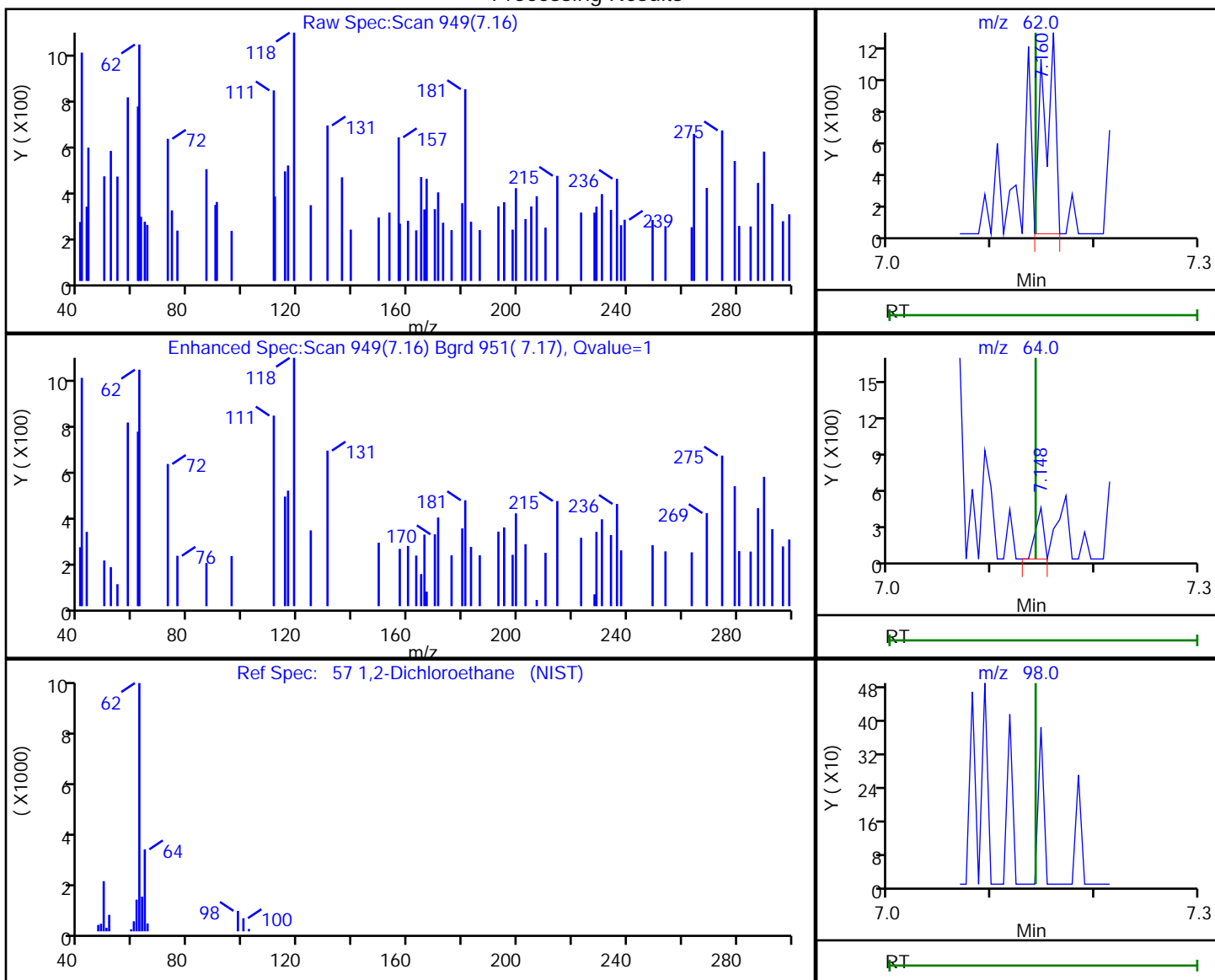
Audit Reason: Invalid Compound ID

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 Lims ID: 180-97133-C-4 Lab Sample ID: 180-97133-4
 Client ID: HD-MW-111-0/1-0
 Operator ID: 433269 ALS Bottle#: 6 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

57 1,2-Dichloroethane, CAS: 107-06-2

Processing Results



RT	Mass	Response	Amount
7.16	62.00	978	0.228684
7.15	64.00	223	
7.14	98.00	0	

Reviewer: bowieh, 22-Oct-2019 09:48:59

Audit Action: Marked Compound Undetected

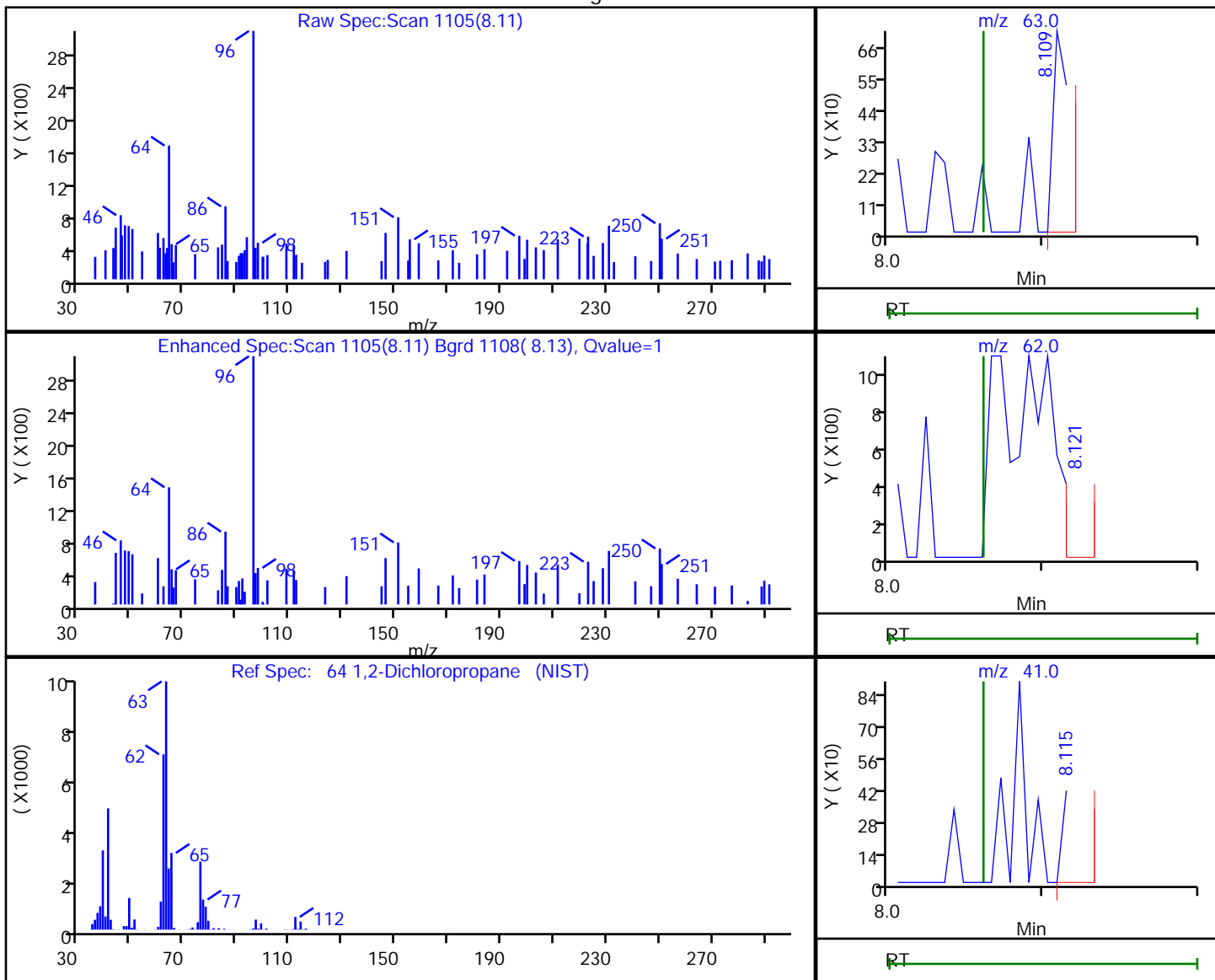
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Lims ID: 180-97133-C-4 Lab Sample ID: 180-97133-4
 Client ID: HD-MW-111-0/1-0
 Operator ID: 433269 ALS Bottle#: 6 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

64 1,2-Dichloropropane, CAS: 78-87-5

Processing Results



RT	Mass	Response	Amount
8.11	63.00	450	0.199781
8.12	62.00	424	
8.11	41.00	259	

Reviewer: bowieh, 22-Oct-2019 09:49:01

Audit Action: Marked Compound Undetected

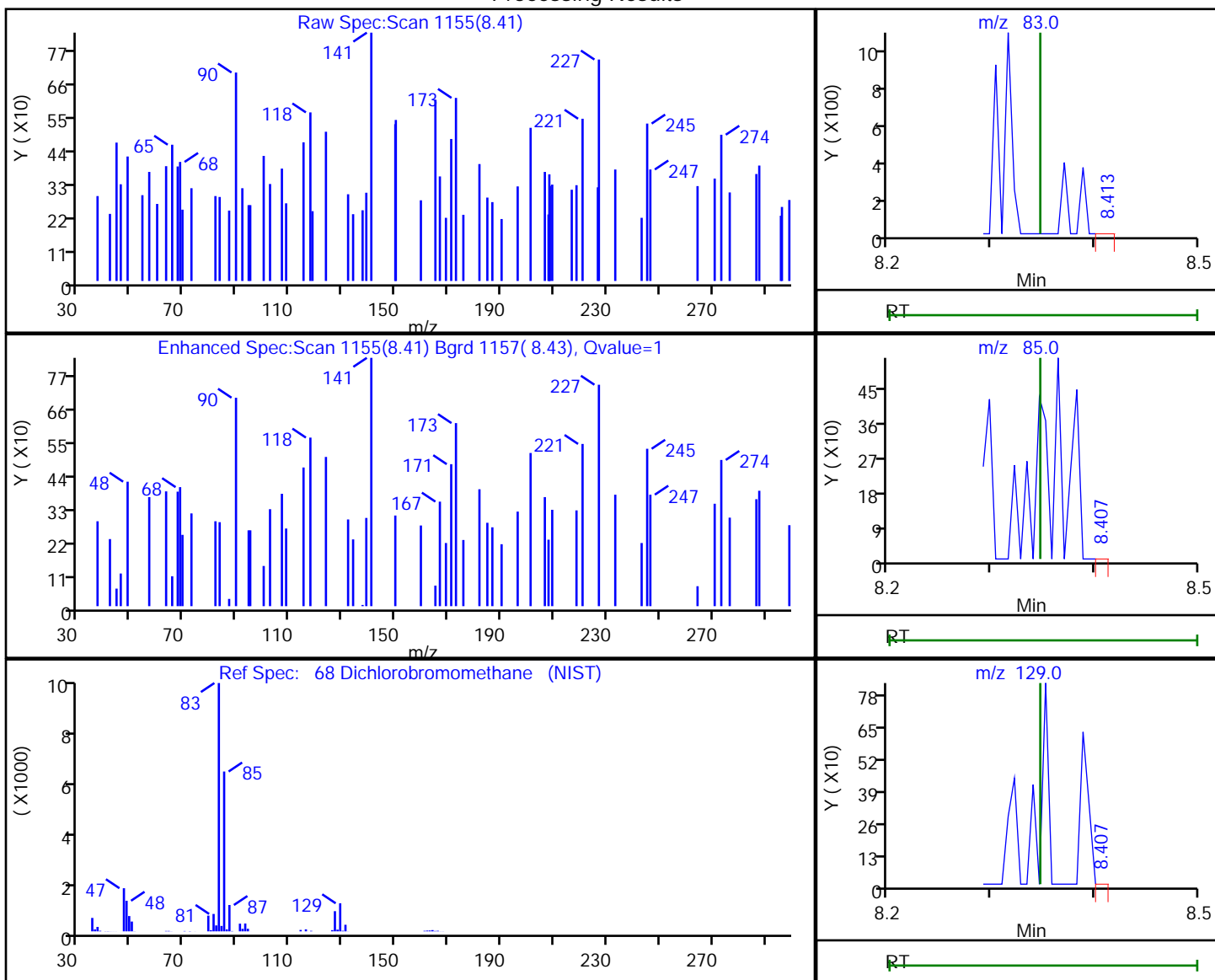
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 Lims ID: 180-97133-C-4 Lab Sample ID: 180-97133-4
 Client ID: HD-MW-111-0/1-0
 Operator ID: 433269 ALS Bottle#: 6 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

68 Dichlorobromomethane, CAS: 75-27-4

Processing Results



RT	Mass	Response	Amount
8.41	83.00	197	0.069175
8.41	85.00	184	
8.41	129.00	171	

Reviewer: bowieh, 22-Oct-2019 09:49:02

Audit Action: Marked Compound Undetected

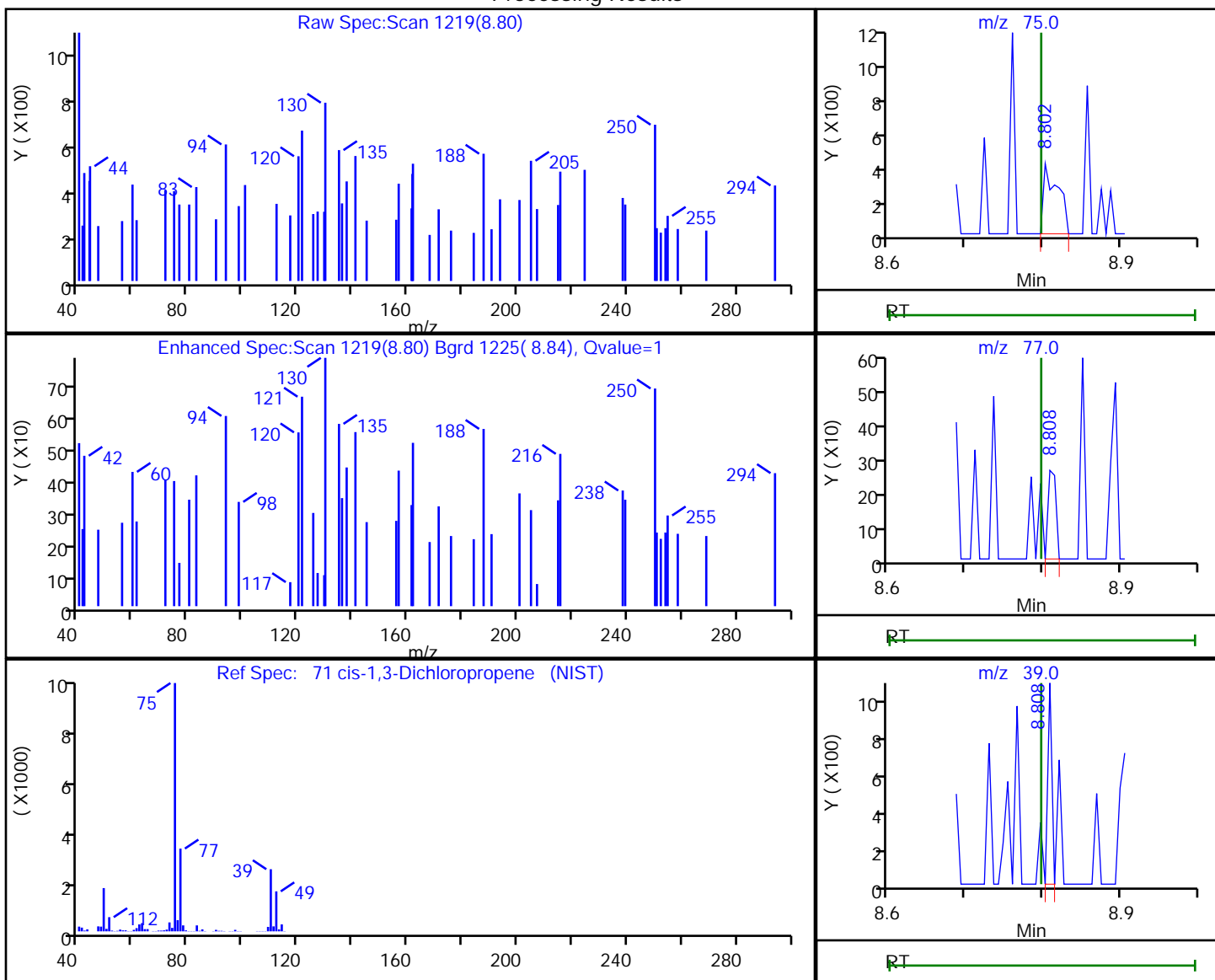
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 Lims ID: 180-97133-C-4 Lab Sample ID: 180-97133-4
 Client ID: HD-MW-111-0/1-0
 Operator ID: 433269 ALS Bottle#: 6 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

71 cis-1,3-Dichloropropene, CAS: 10061-01-5

Processing Results



RT	Mass	Response	Amount
8.80	75.00	512	0.174175
8.81	77.00	187	
8.81	39.00	373	

Reviewer: bowieh, 22-Oct-2019 09:49:03

Audit Action: Marked Compound Undetected

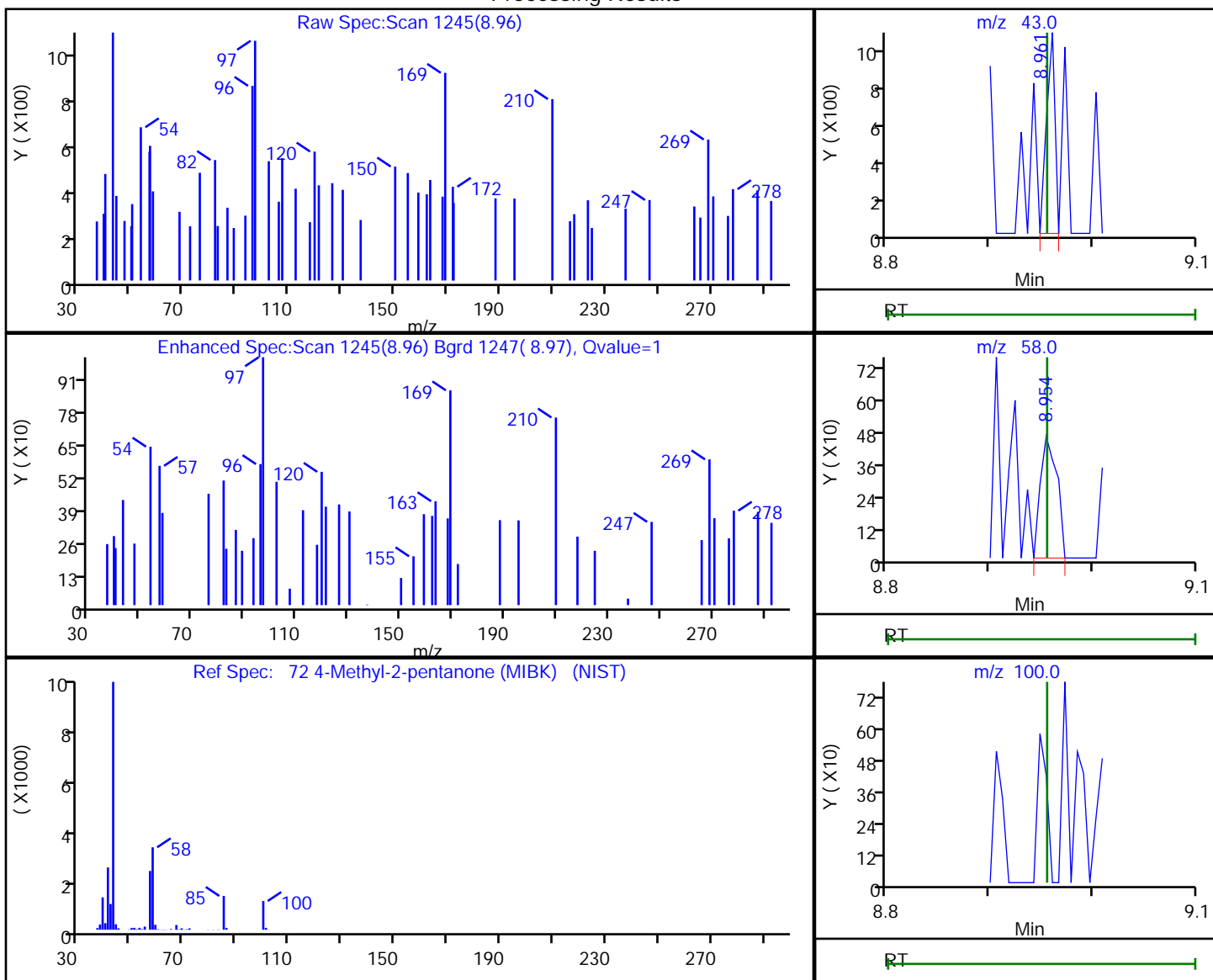
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 Lims ID: 180-97133-C-4 Lab Sample ID: 180-97133-4
 Client ID: HD-MW-111-0/1-0
 Operator ID: 433269 ALS Bottle#: 6 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

72 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
8.96	43.00	585	0.317100
8.95	58.00	514	
8.96	100.00	0	

Reviewer: bowieh, 22-Oct-2019 09:49:04

Audit Action: Marked Compound Undetected

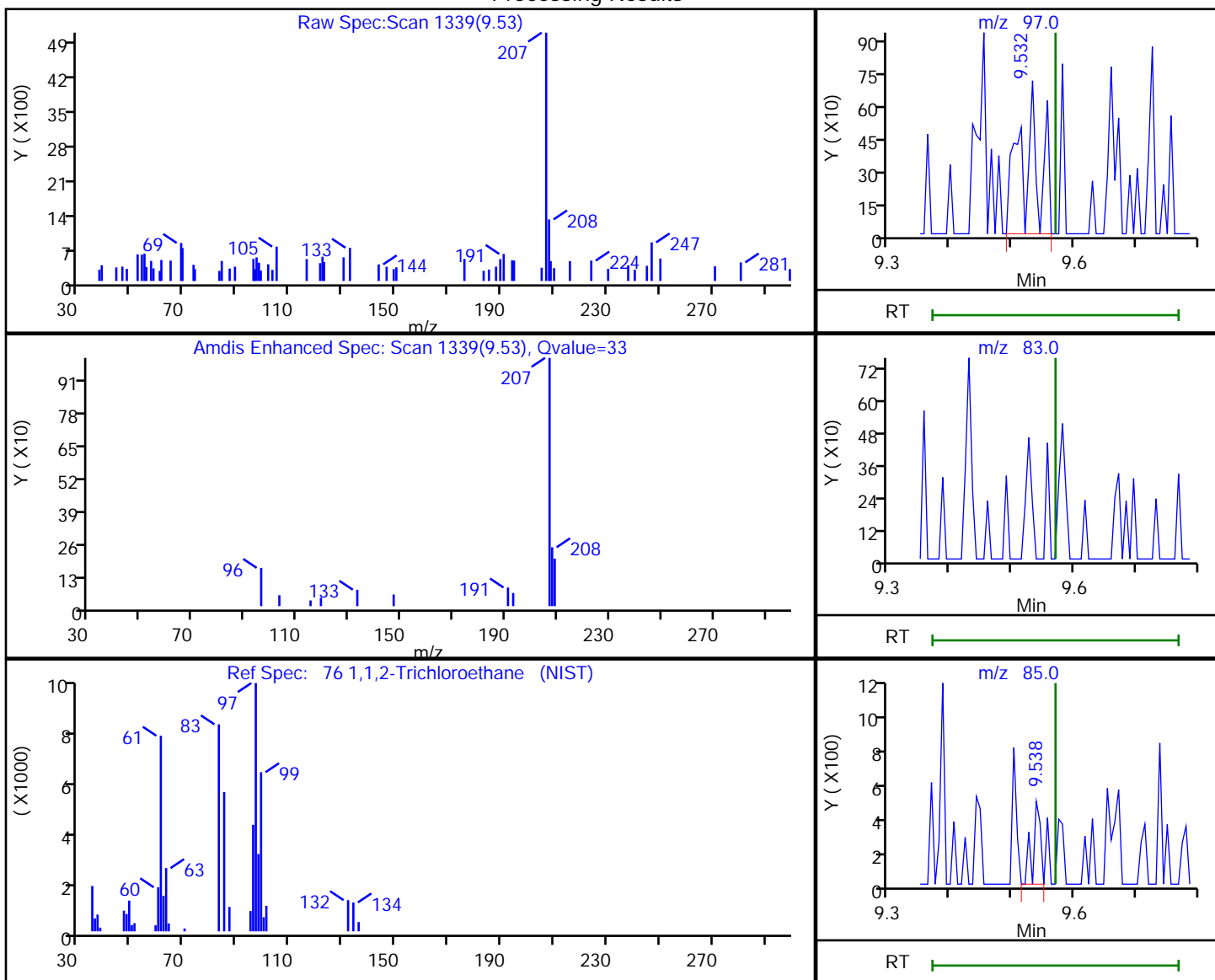
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Eurofins TestAmerica, Pittsburgh

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 Injection Date: 19-Oct-2019 18:20:30 Instrument ID: CHHP6
 Lims ID: 180-97133-C-4 Lab Sample ID: 180-97133-4
 Client ID: HD-MW-111-0/1-0
 Operator ID: 433269 ALS Bottle#: 6 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

76 1,1,2-Trichloroethane, CAS: 79-00-5

Processing Results



RT	Mass	Response	Amount
9.53	97.00	1424	0.788224
9.57	83.00	0	
9.54	85.00	415	

Reviewer: bowieh, 22-Oct-2019 09:49:08

Audit Action: Marked Compound Undetected

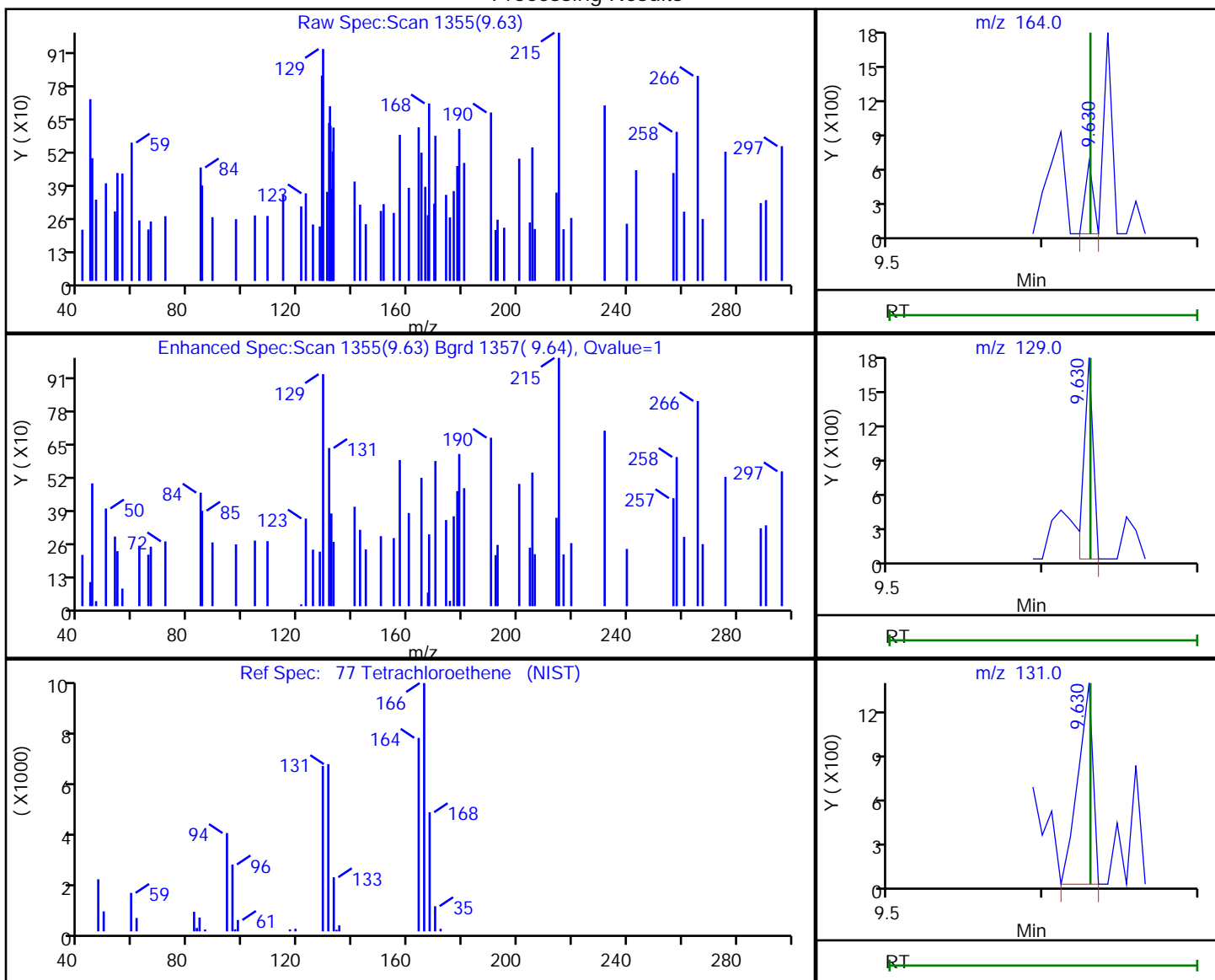
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 Client ID: HD-MW-111-0/1-0
 Operator ID: 433269 ALS Bottle#: 6 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

77 Tetrachloroethene, CAS: 127-18-4

Processing Results



RT	Mass	Response	Amount
9.63	164.00	223	0.108301
9.63	129.00	722	
9.63	131.00	889	

Reviewer: bowieh, 22-Oct-2019 09:49:10

Audit Action: Marked Compound Undetected

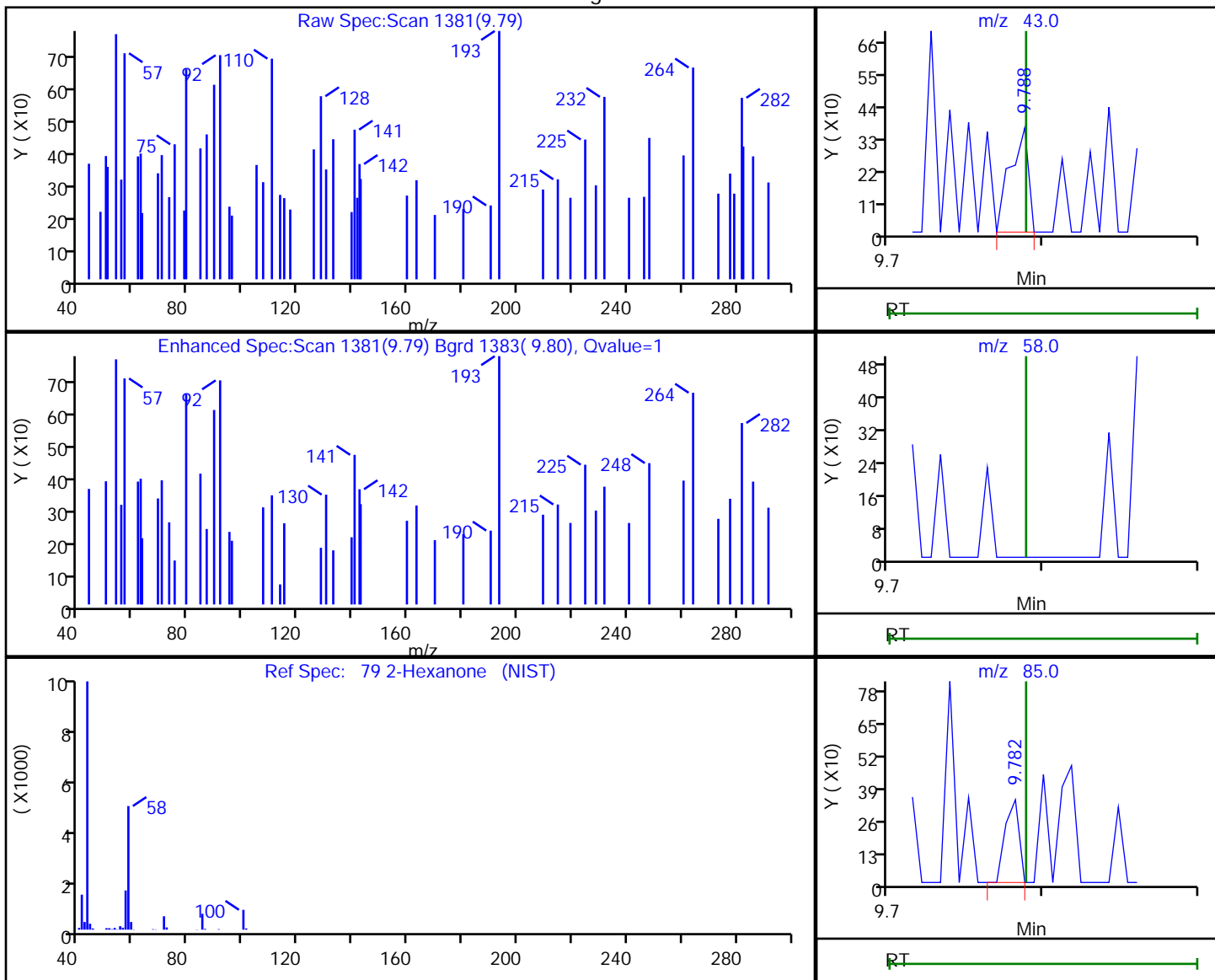
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101912.D
 Injection Date: 19-Oct-2019 18:20:30 Instrument ID: CHHP6
 Lims ID: 180-97133-C-4 Lab Sample ID: 180-97133-4
 Client ID: HD-MW-111-0/1-0
 Operator ID: 433269 ALS Bottle#: 6 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

79 2-Hexanone, CAS: 591-78-6

Processing Results



RT	Mass	Response	Amount
9.79	43.00	298	0.196615
9.79	58.00	0	
9.78	85.00	211	

Reviewer: bowieh, 22-Oct-2019 09:49:11

Audit Action: Marked Compound Undetected

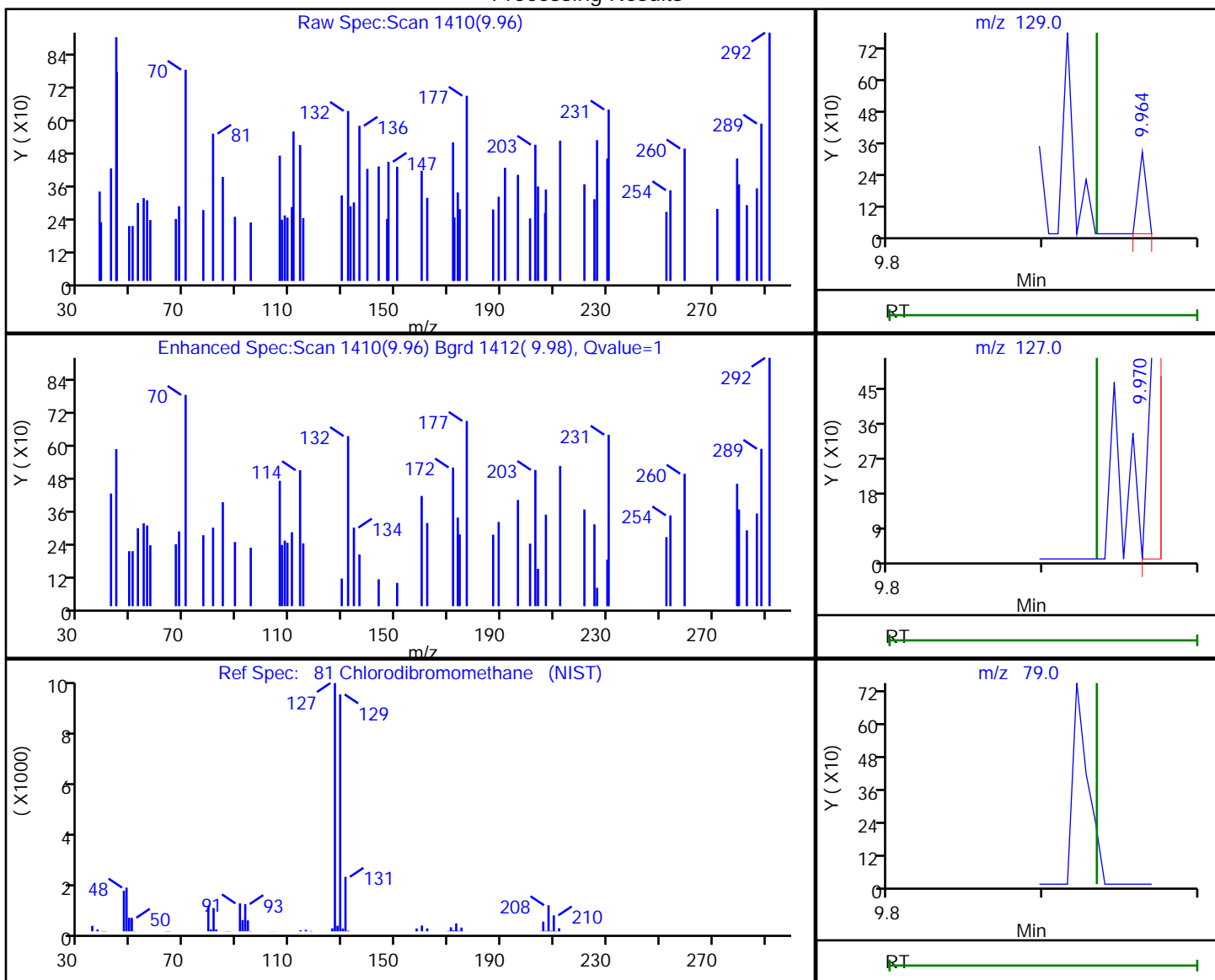
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101912.D
 Injection Date: 19-Oct-2019 18:20:30 Instrument ID: CHHP6
 Lims ID: 180-97133-C-4 Lab Sample ID: 180-97133-4
 Client ID: HD-MW-111-0/1-0
 Operator ID: 433269 ALS Bottle#: 6 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

81 Chlorodibromomethane, CAS: 124-48-1

Processing Results



RT	Mass	Response	Amount
9.96	129.00	115	0.065232
9.97	127.00	191	
9.93	79.00	0	

Reviewer: bowieh, 22-Oct-2019 09:49:12

Audit Action: Marked Compound Undetected

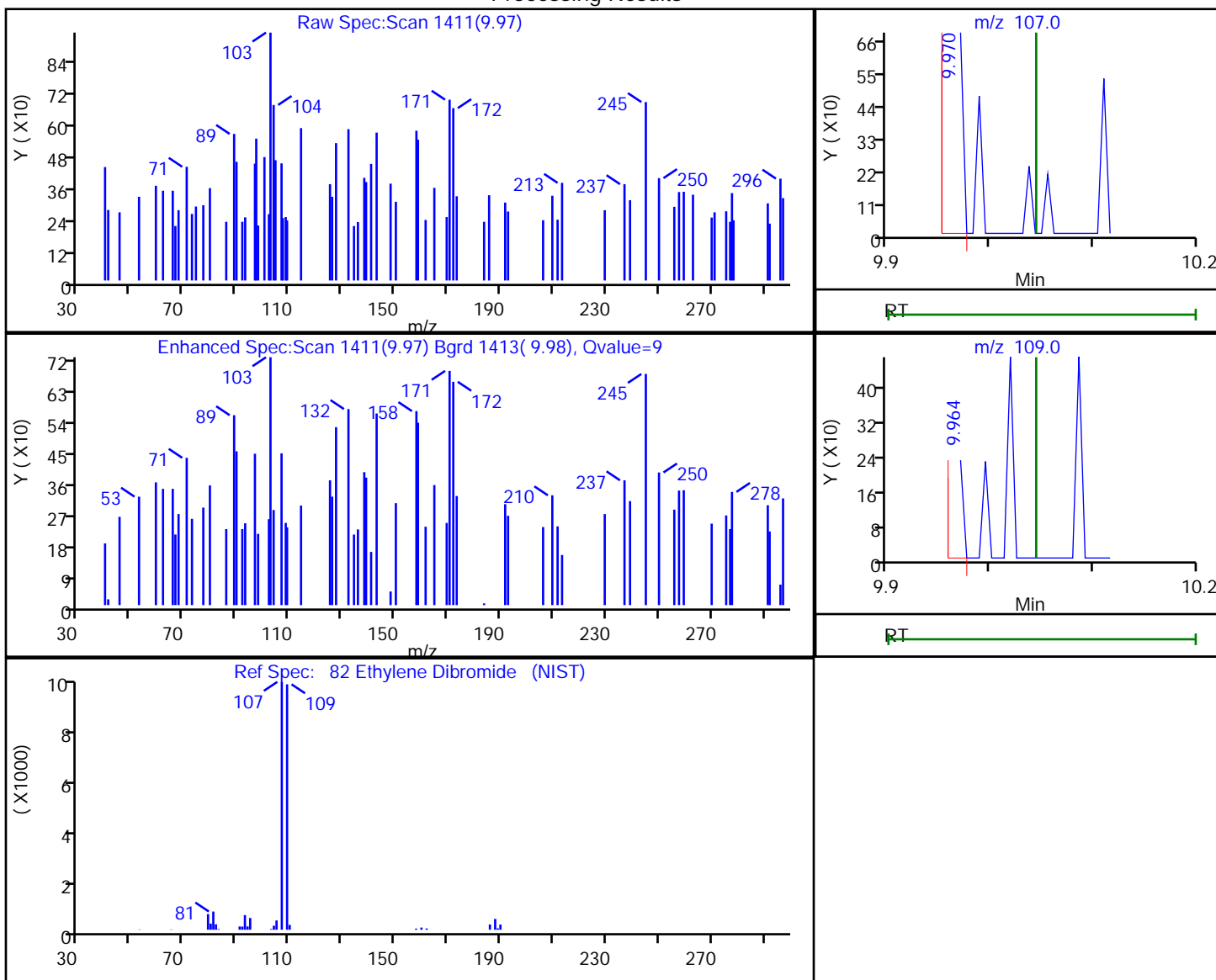
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101912.D
 Injection Date: 19-Oct-2019 18:20:30 Instrument ID: CHHP6
 Lims ID: 180-97133-C-4 Lab Sample ID: 180-97133-4
 Client ID: HD-MW-111-0/1-0
 Operator ID: 433269 ALS Bottle#: 6 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

82 Ethylene Dibromide, CAS: 106-93-4

Processing Results



RT	Mass	Response	Amount
9.97	107.00	450	0.245009
9.96	109.00	169	

Reviewer: bowieh, 22-Oct-2019 09:49:13

Audit Action: Marked Compound Undetected

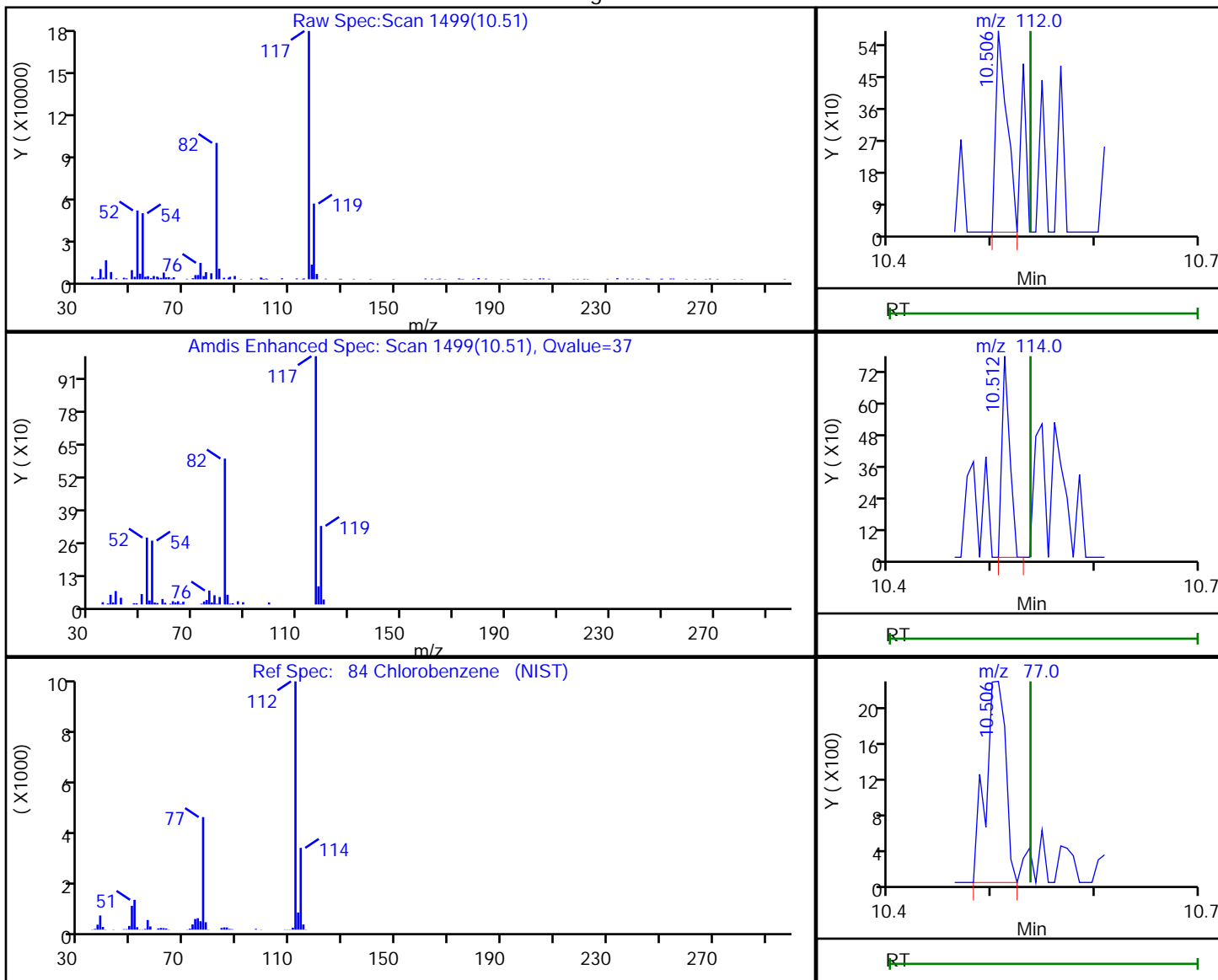
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101912.D
Injection Date: 19-Oct-2019 18:20:30 Instrument ID: CHHP6
Lims ID: 180-97133-C-4 Lab Sample ID: 180-97133-4
Client ID: HD-MW-111-0/1-0
Operator ID: 433269 ALS Bottle#: 6 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

84 Chlorobenzene, CAS: 108-90-7

Processing Results



RT	Mass	Response	Amount
10.51	112.00	433	0.066621
10.51	114.00	406	
10.51	77.00	2993	

Reviewer: bowieh, 22-Oct-2019 09:49:14

Audit Action: Marked Compound Undetected

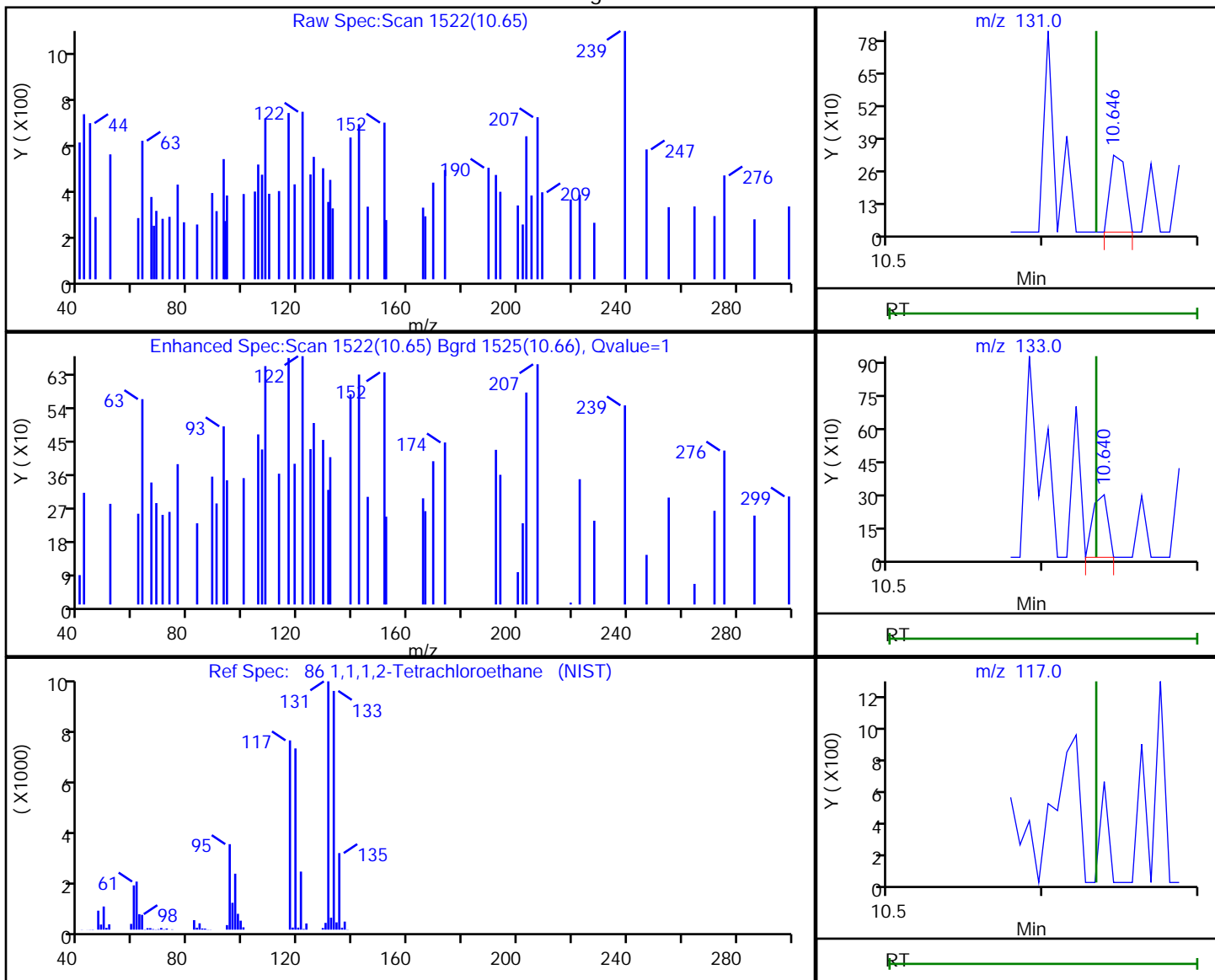
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101912.D
 Injection Date: 19-Oct-2019 18:20:30 Instrument ID: CHHP6
 Lims ID: 180-97133-C-4 Lab Sample ID: 180-97133-4
 Client ID: HD-MW-111-0/1-0
 Operator ID: 433269 ALS Bottle#: 6 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

86 1,1,1,2-Tetrachloroethane, CAS: 630-20-6

Processing Results



RT	Mass	Response	Amount
10.65	131.00	218	0.104770
10.64	133.00	196	
10.63	117.00	0	

Reviewer: bowieh, 22-Oct-2019 09:49:17

Audit Action: Marked Compound Undetected

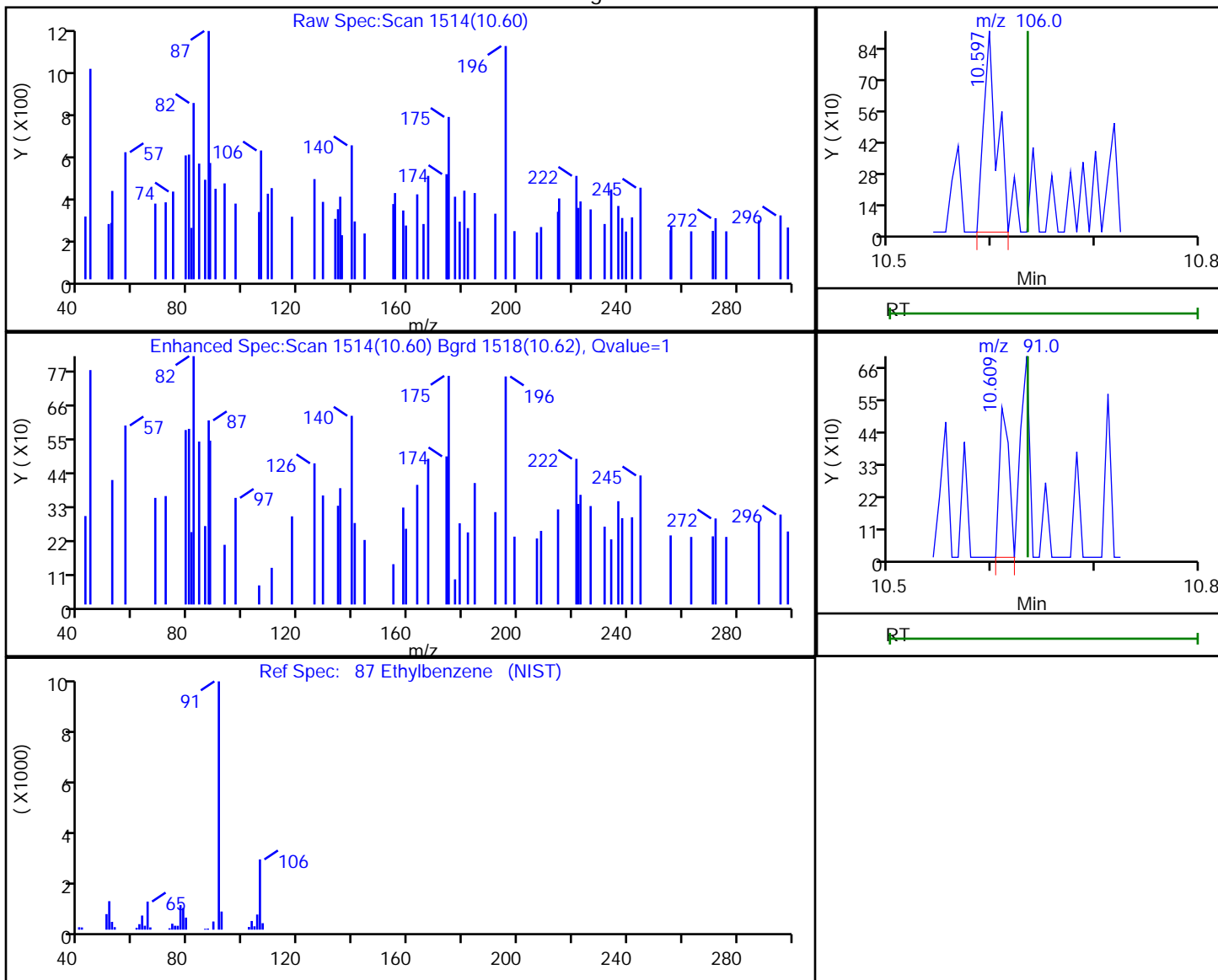
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101912.D
 Injection Date: 19-Oct-2019 18:20:30 Instrument ID: CHHP6
 Lims ID: 180-97133-C-4 Lab Sample ID: 180-97133-4
 Client ID: HD-MW-111-0/1-0
 Operator ID: 433269 ALS Bottle#: 6 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

87 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
10.60	106.00	810	0.212631
10.61	91.00	334	

Reviewer: bowieh, 22-Oct-2019 09:49:15

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

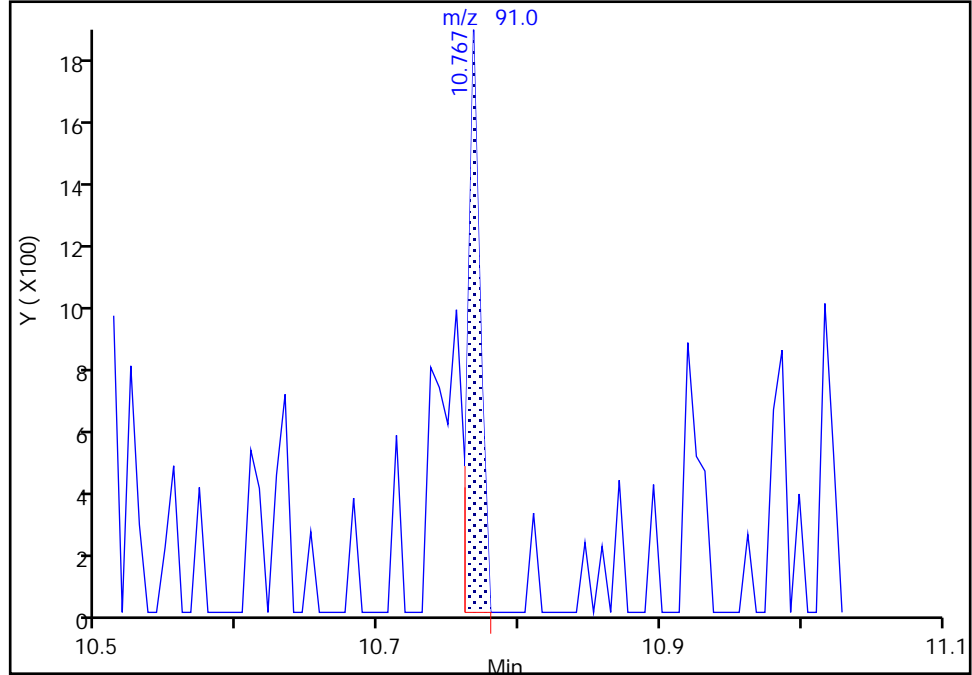
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Injection Date: 19-Oct-2019 18:20:30 Instrument ID: CHHP6
Lims ID: 180-97133-C-4 Lab Sample ID: 180-97133-4
Client ID: HD-MW-111-0/1-0
Operator ID: 433269 ALS Bottle#: 6 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

88 m-Xylene & p-Xylene, CAS: 179601-23-1

Signal: 2

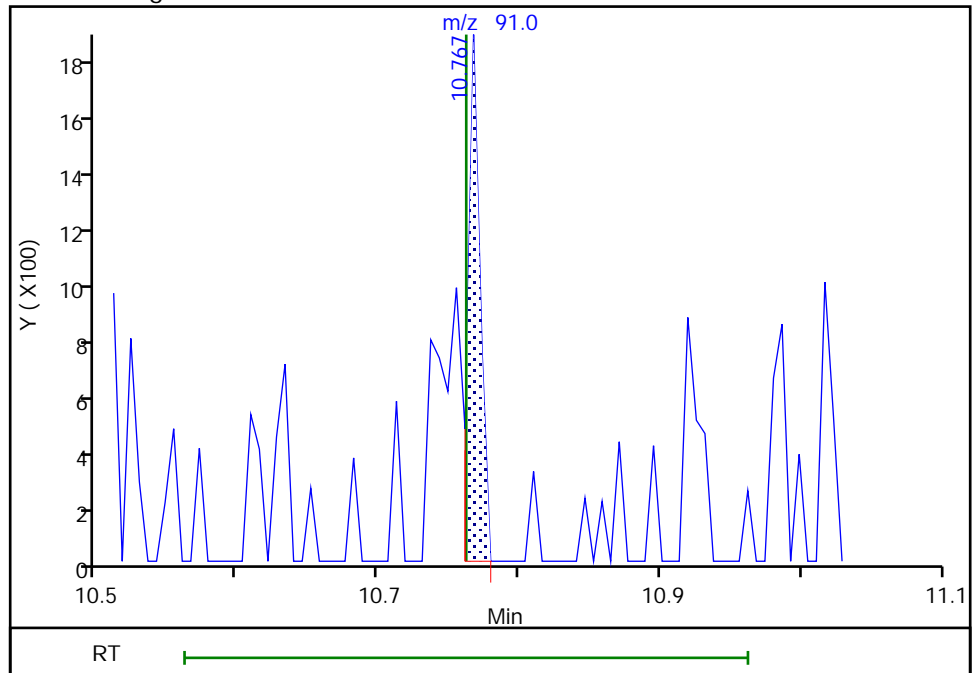
RT: 10.77
Area: 1119
Amount: 0.285034
Amount Units: ng

Processing Integration Results



RT: 10.77
Area: 1119
Amount: 0.285034
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 22-Oct-2019 09:49:18
Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

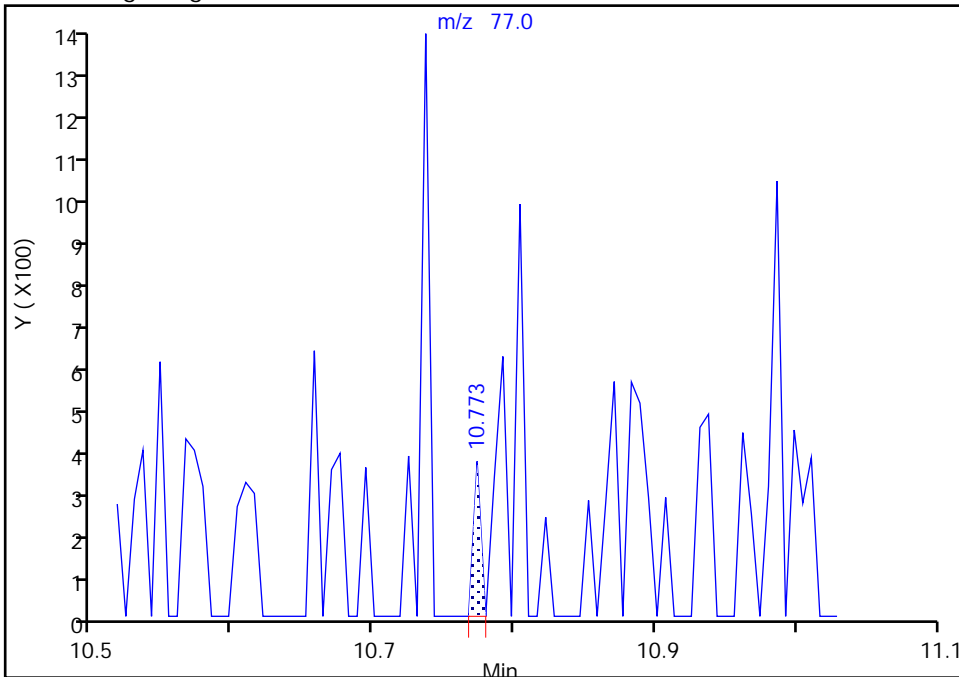
Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101912.D
Injection Date: 19-Oct-2019 18:20:30 Instrument ID: CHHP6
Lims ID: 180-97133-C-4 Lab Sample ID: 180-97133-4
Client ID: HD-MW-111-0/1-0
Operator ID: 433269 ALS Bottle#: 6 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

88 m-Xylene & p-Xylene, CAS: 179601-23-1

Signal: 3

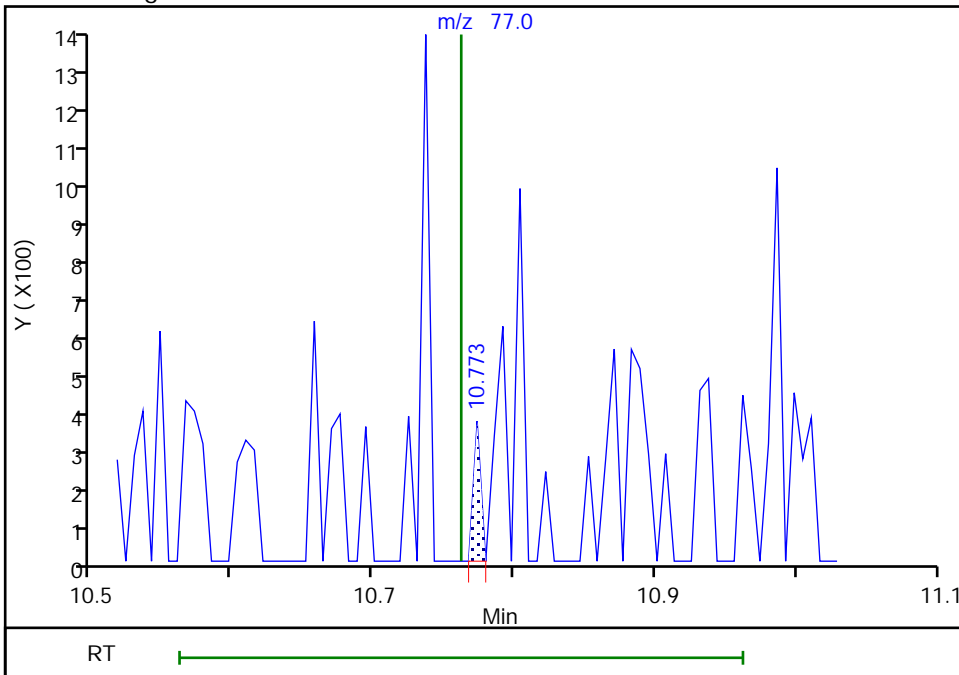
RT: 10.77
Area: 128
Amount: 0.285034
Amount Units: ng

Processing Integration Results



RT: 10.77
Area: 128
Amount: 0.285034
Amount Units: ng

Manual Integration Results



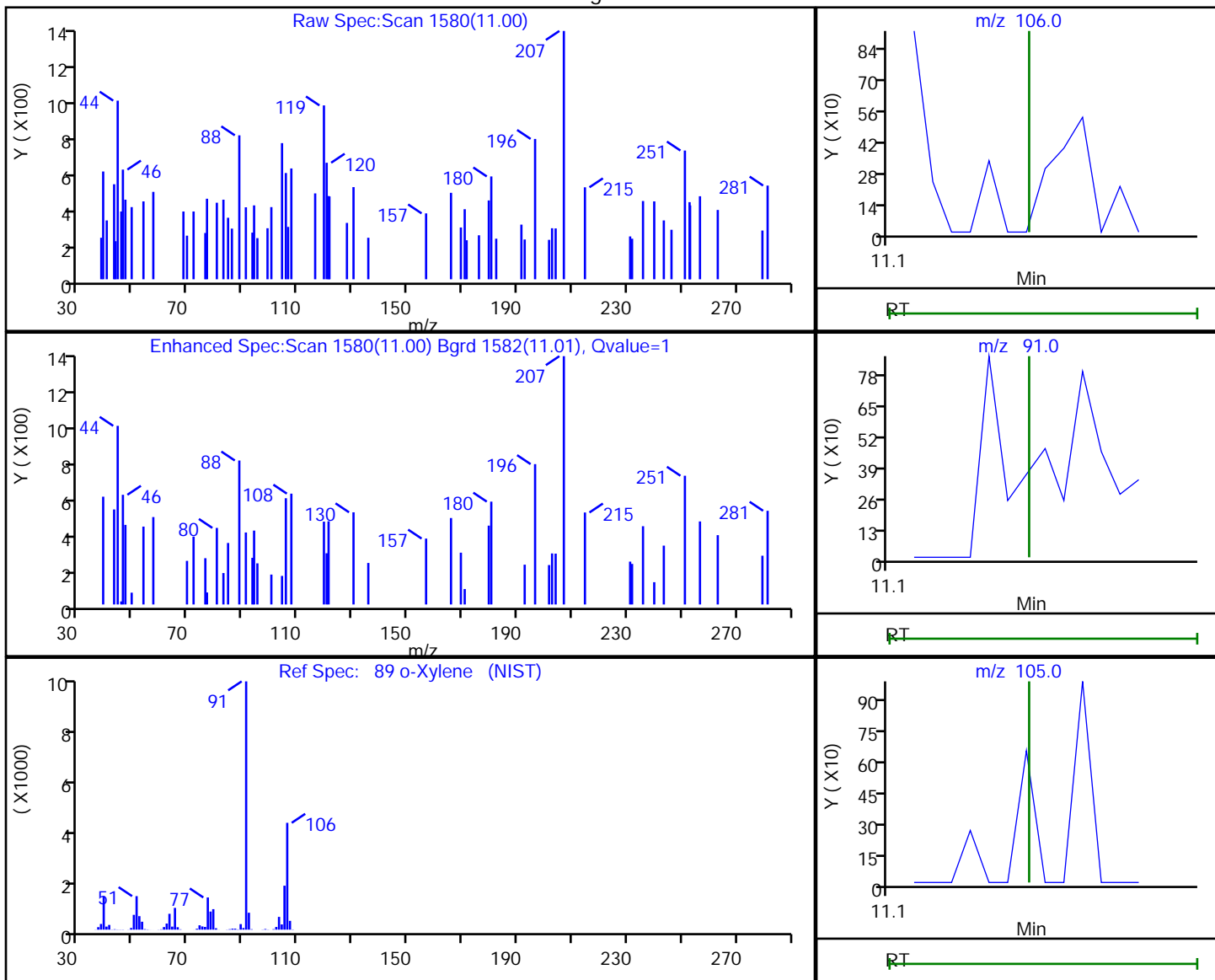
Reviewer: bowieh, 22-Oct-2019 09:49:18
Audit Action: Marked Compound Undetected

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101912.D
Injection Date: 19-Oct-2019 18:20:30 Instrument ID: CHHP6
Lims ID: 180-97133-C-4 Lab Sample ID: 180-97133-4
Client ID: HD-MW-111-0/1-0
Operator ID: 433269 ALS Bottle#: 6 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

89 o-Xylene, CAS: 95-47-6

Processing Results



RT	Mass	Response	Amount
11.00	106.00	100	0.022345
11.00	91.00	138	
11.00	105.00	369	

Reviewer: bowieh, 22-Oct-2019 09:49:21

Audit Action: Marked Compound Undetected

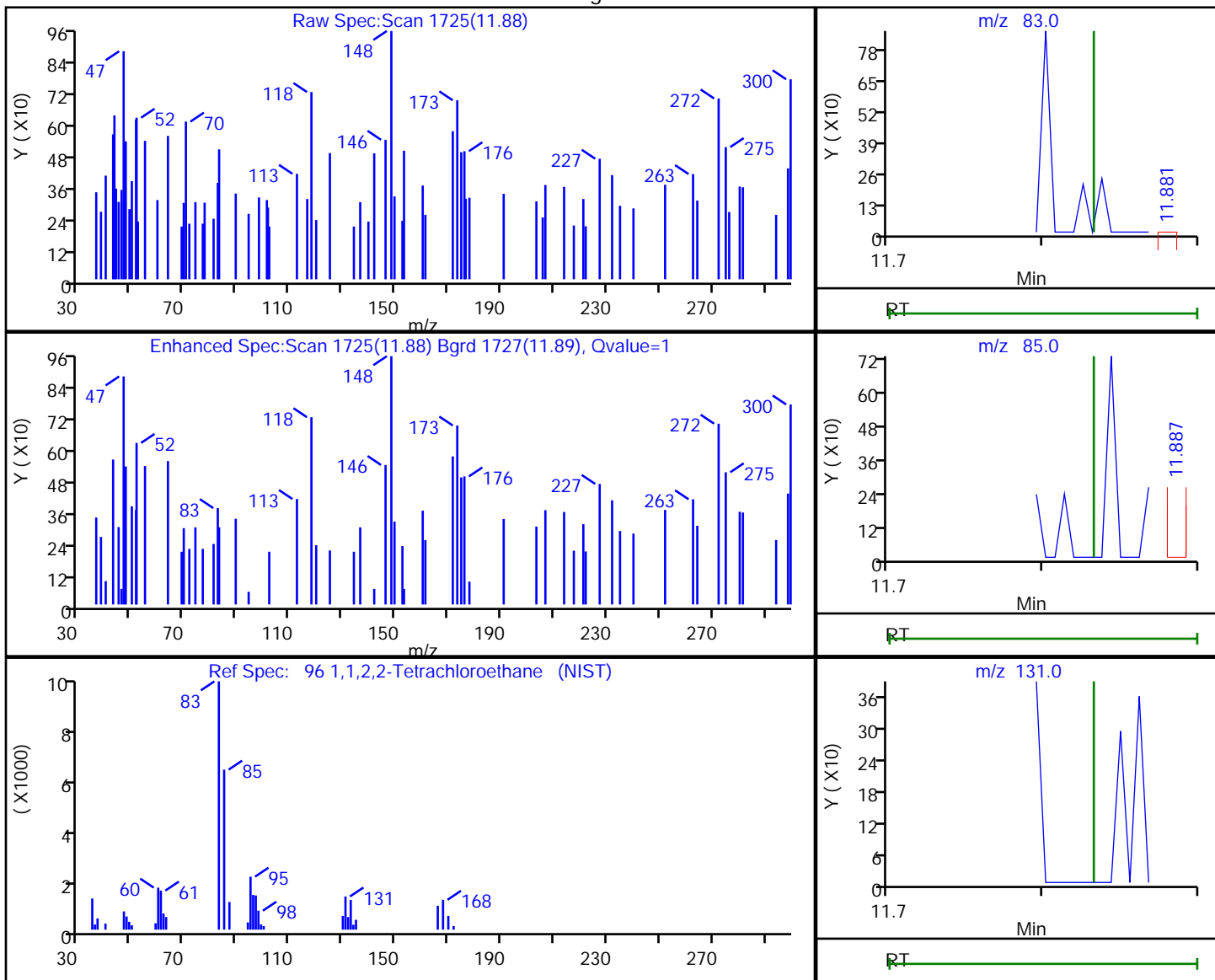
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101912.D
Injection Date: 19-Oct-2019 18:20:30 Instrument ID: CHHP6
Lims ID: 180-97133-C-4 Lab Sample ID: 180-97133-4
Client ID: HD-MW-111-0/1-0
Operator ID: 433269 ALS Bottle#: 6 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

96 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Processing Results



RT	Mass	Response	Amount
11.88	83.00	183	0.095449
11.89	85.00	122	
11.83	131.00	0	

Reviewer: bowieh, 22-Oct-2019 09:49:23

Audit Action: Marked Compound Undetected

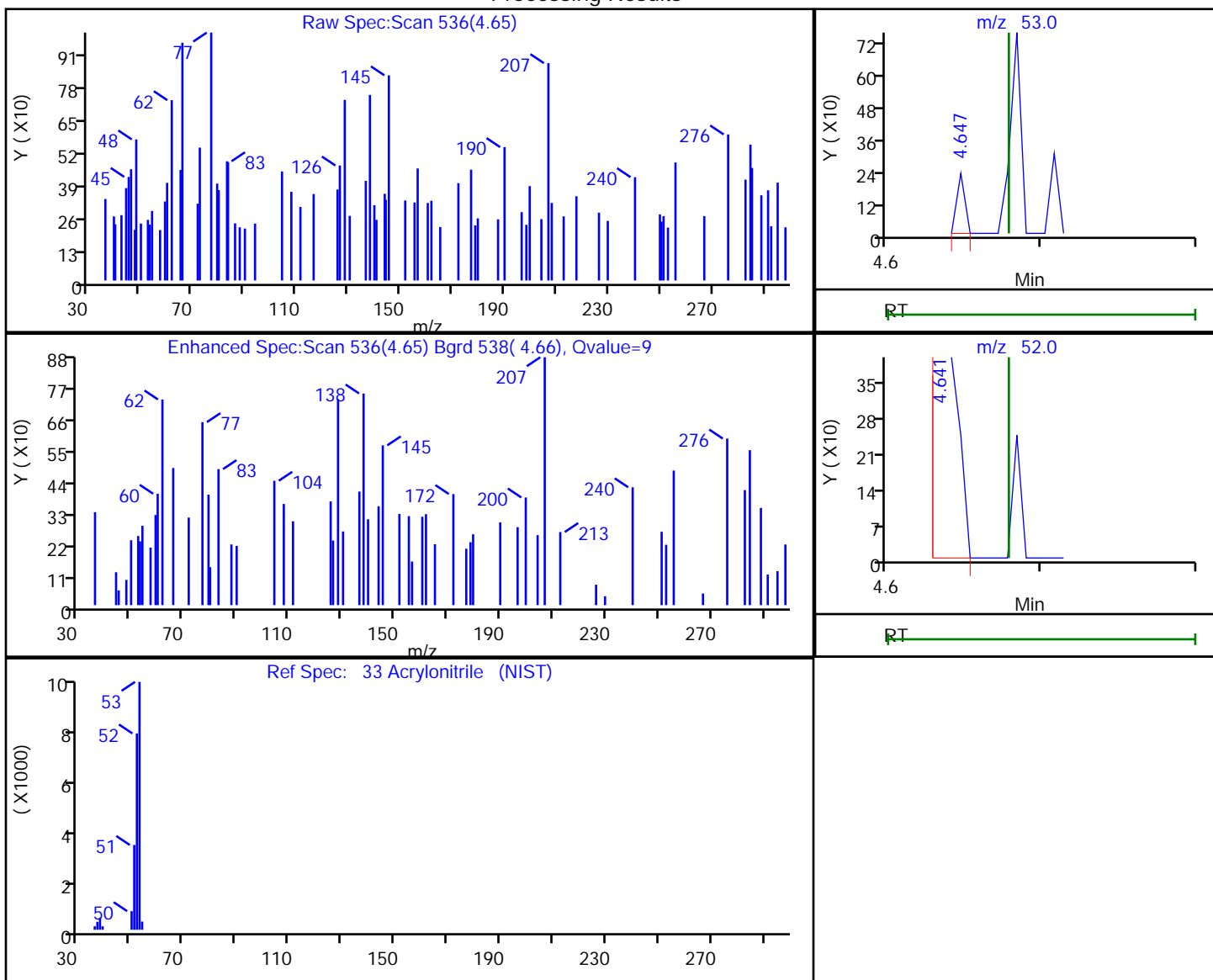
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101912.D
 Injection Date: 19-Oct-2019 18:20:30 Instrument ID: CHHP6
 Lims ID: 180-97133-C-4 Lab Sample ID: 180-97133-4
 Client ID: HD-MW-111-0/1-0
 Operator ID: 433269 ALS Bottle#: 6 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

33 Acrylonitrile, CAS: 107-13-1

Processing Results



RT	Mass	Response	Amount
4.65	53.00	82	0.094443
4.64	52.00	359	

Reviewer: bowieh, 22-Oct-2019 09:48:46

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1
 SDG No.: _____
 Client Sample ID: HD-MW-79-0/1-0 Lab Sample ID: 180-97133-5
 Matrix: Water Lab File ID: 6101921.D
 Analysis Method: EPA 8260C Date Collected: 10/10/2019 10:58
 Sample wt/vol: 5 (mL) Date Analyzed: 10/19/2019 22:14
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 295448 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	ND		1.0	0.90
75-01-4	Vinyl chloride	ND		1.0	0.88
74-83-9	Bromomethane	ND		1.0	0.89
75-00-3	Chloroethane	ND		1.0	0.90
75-35-4	1,1-Dichloroethene	ND		1.0	0.55
67-64-1	Acetone	ND		5.0	3.4
75-15-0	Carbon disulfide	ND		1.0	0.88
75-09-2	Methylene Chloride	ND		1.0	0.89
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.67
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.59
75-34-3	1,1-Dichloroethane	2.9		1.0	0.63
156-59-2	cis-1,2-Dichloroethene	6.2		1.0	0.71
74-97-5	Bromochloromethane	ND		1.0	0.63
78-93-3	2-Butanone (MEK)	ND		5.0	2.6
67-66-3	Chloroform	ND		1.0	0.60
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.60
56-23-5	Carbon tetrachloride	ND		1.0	0.88
71-43-2	Benzene	ND		1.0	0.60
107-06-2	1,2-Dichloroethane	ND		1.0	0.57
79-01-6	Trichloroethene	ND		1.0	0.69
78-87-5	1,2-Dichloropropane	ND		1.0	0.66
75-27-4	Bromodichloromethane	ND		1.0	0.64
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.59
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	3.1
108-88-3	Toluene	ND		1.0	0.46
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.58
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.45
127-18-4	Tetrachloroethene	ND		1.0	0.47
591-78-6	2-Hexanone	ND		5.0	3.3
124-48-1	Dibromochloromethane	ND		1.0	0.84
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.50
108-90-7	Chlorobenzene	ND		1.0	0.50
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.57
100-41-4	Ethylbenzene	ND		1.0	0.51
1330-20-7	Xylenes, Total	ND		2.0	0.89
100-42-5	Styrene	ND		1.0	0.47

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1
 SDG No.: _____
 Client Sample ID: HD-MW-79-0/1-0 Lab Sample ID: 180-97133-5
 Matrix: Water Lab File ID: 6101921.D
 Analysis Method: EPA 8260C Date Collected: 10/10/2019 10:58
 Sample wt/vol: 5 (mL) Date Analyzed: 10/19/2019 22:14
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 295448 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	ND		1.0	0.98
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.60
107-13-1	Acrylonitrile	ND		20	7.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	114		70-150
2037-26-5	Toluene-d8 (Surr)	104		78-128
460-00-4	4-Bromofluorobenzene (Surr)	102		64-123
1868-53-7	Dibromofluoromethane (Surr)	105		75-147

Eurofins TestAmerica, Pittsburgh
Target Compound Quantitation Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101921.D
 Lims ID: 180-97133-A-5
 Client ID: HD-MW-79-0/1-0
 Sample Type: Client
 Inject. Date: 19-Oct-2019 22:14:30 ALS Bottle#: 15 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-0029191-021
 Misc. Info.: 180-97133-a-5
 Operator ID: 433269 Instrument ID: CHHP6
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C_D ICAL
 Last Update: 22-Oct-2019 09:57:23 Calib Date: 18-Oct-2019 18:47:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101817.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX0302

First Level Reviewer: bowieh

Date: 22-Oct-2019 09:57:23

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.423	4.429	-0.006	92	149616	1000.0	
* 2 Fluorobenzene (IS)	96	7.410	7.410	0.000	98	423001	50.0	
* 3 Chlorobenzene-d5	119	10.513	10.513	0.000	89	107929	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.855	12.855	0.000	98	147793	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.686	6.686	0.000	91	104708	52.7	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	7.057	7.057	0.000	91	173163	57.0	
\$ 7 Toluene-d8 (Surr)	98	9.053	9.053	0.000	95	406929	51.8	
\$ 8 4-Bromofluorobenzene (Surr	95	11.693	11.693	0.000	0	164716	50.8	
12 Chloromethane	50		1.886				ND	U
13 Vinyl chloride	62	1.996	2.008	-0.012	47	10881	3.59	M
15 Bromomethane	94		2.355				ND	U
16 Chloroethane	64		2.495				ND	U
22 1,1-Dichloroethene	96		3.468				ND	
24 Acetone	43		3.584				ND	U
26 Carbon disulfide	76		3.766				ND	U
31 Methylene Chloride	84		4.289				ND	
33 Acrylonitrile	53		4.679				ND	U
34 trans-1,2-Dichloroethene	96		4.709				ND	U
35 Methyl tert-butyl ether	73		4.715				ND	U
37 1,1-Dichloroethane	63	5.348	5.336	0.012	95	62259	14.6	
43 cis-1,2-Dichloroethene	96	6.072	6.078	-0.006	86	78886	31.1	
44 2-Butanone (MEK)	43		6.090				ND	U
48 Chlorobromomethane	128		6.358				ND	
50 Chloroform	83		6.510				ND	U
51 1,1,1-Trichloroethane	97		6.662				ND	U
53 Carbon tetrachloride	117		6.826				ND	
56 Benzene	78		7.063				ND	U
57 1,2-Dichloroethane	62		7.142				ND	U
61 Trichloroethene	130	7.800	7.793	0.007	66	6449	2.37	M
64 1,2-Dichloropropane	63		8.061				ND	U
68 Dichlorobromomethane	83		8.347				ND	U

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
71 cis-1,3-Dichloropropene	75		8.797				ND	U
72 4-Methyl-2-pentanone (MIBK)	43		8.955				ND	U
73 Toluene	91		9.126				ND	U
74 trans-1,3-Dichloropropene	75		9.369				ND	U
76 1,1,2-Trichloroethane	97		9.570				ND	U
77 Tetrachloroethene	164		9.631				ND	U
79 2-Hexanone	43		9.789				ND	U
81 Chlorodibromomethane	129		9.935				ND	U
82 Ethylene Dibromide	107		10.044				ND	U
84 Chlorobenzene	112		10.537				ND	U
87 Ethylbenzene	106		10.634				ND	U
86 1,1,1,2-Tetrachloroethane	131		10.634				ND	U
88 m-Xylene & p-Xylene	106		10.762				ND	U
89 o-Xylene	106		11.145				ND	U
90 Styrene	104	11.170	11.170	0.000	19	4299	0.6096	
91 Bromoform	173		11.352				ND	
96 1,1,2,2-Tetrachloroethane	83		11.833				ND	U
S 131 Xylenes, Total	106		1.000				ND	

QC Flag Legend

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

voaWI/SHP5_00014

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101921.D

Injection Date: 19-Oct-2019 22:14:30

Instrument ID: CHHP6

Operator ID: 433269

Lims ID: 180-97133-A-5

Lab Sample ID: 180-97133-5

Worklist Smp#: 21

Client ID: HD-MW-79-0/1-0

Purge Vol: 5.000 mL

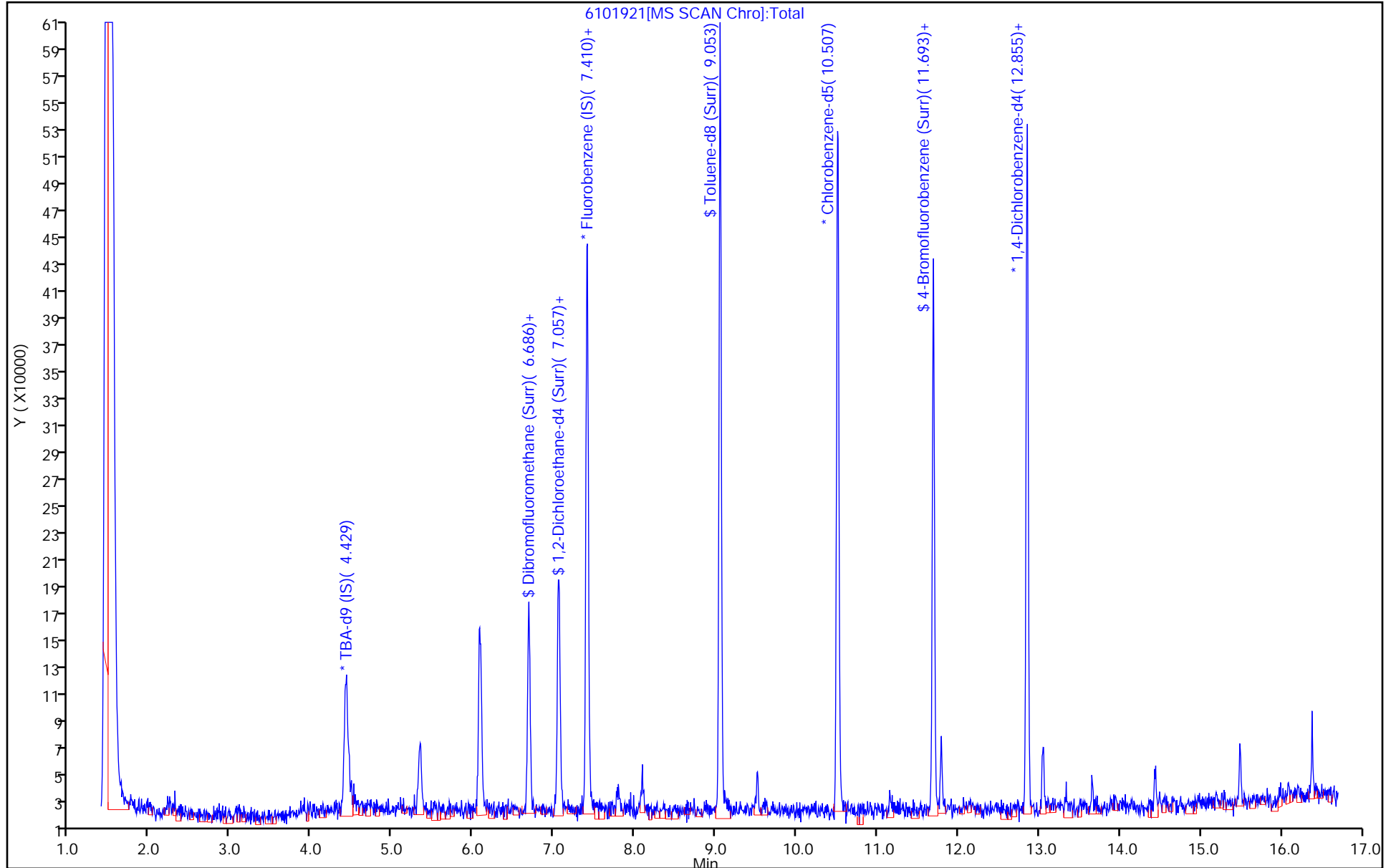
Dil. Factor: 1.0000

ALS Bottle#: 15

Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C_D ICAL

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Pittsburgh
Recovery Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101921.D
 Lims ID: 180-97133-A-5
 Client ID: HD-MW-79-0/1-0
 Sample Type: Client
 Inject. Date: 19-Oct-2019 22:14:30 ALS Bottle#: 15 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-0029191-021
 Misc. Info.: 180-97133-a-5
 Operator ID: 433269 Instrument ID: CHHP6
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C_D ICAL
 Last Update: 22-Oct-2019 09:57:23 Calib Date: 18-Oct-2019 18:47:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101817.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX0302

First Level Reviewer: bowieh

Date: 22-Oct-2019 09:57:23

Compound	Amount Added	Amount Recovered	% Rec.
\$ 5 Dibromofluoromethane (Surr)	50.0	52.7	105.38
\$ 6 1,2-Dichloroethane-d4 (Surr)	50.0	57.0	114.02
\$ 7 Toluene-d8 (Surr)	50.0	51.8	103.67
\$ 8 4-Bromofluorobenzene (Surr)	50.0	50.8	101.64

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101921.D

Injection Date: 19-Oct-2019 22:14:30

Instrument ID: CHHP6

Lims ID: 180-97133-A-5

Lab Sample ID: 180-97133-5

Client ID: HD-MW-79-0/1-0

Operator ID: 433269

ALS Bottle#: 15 Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

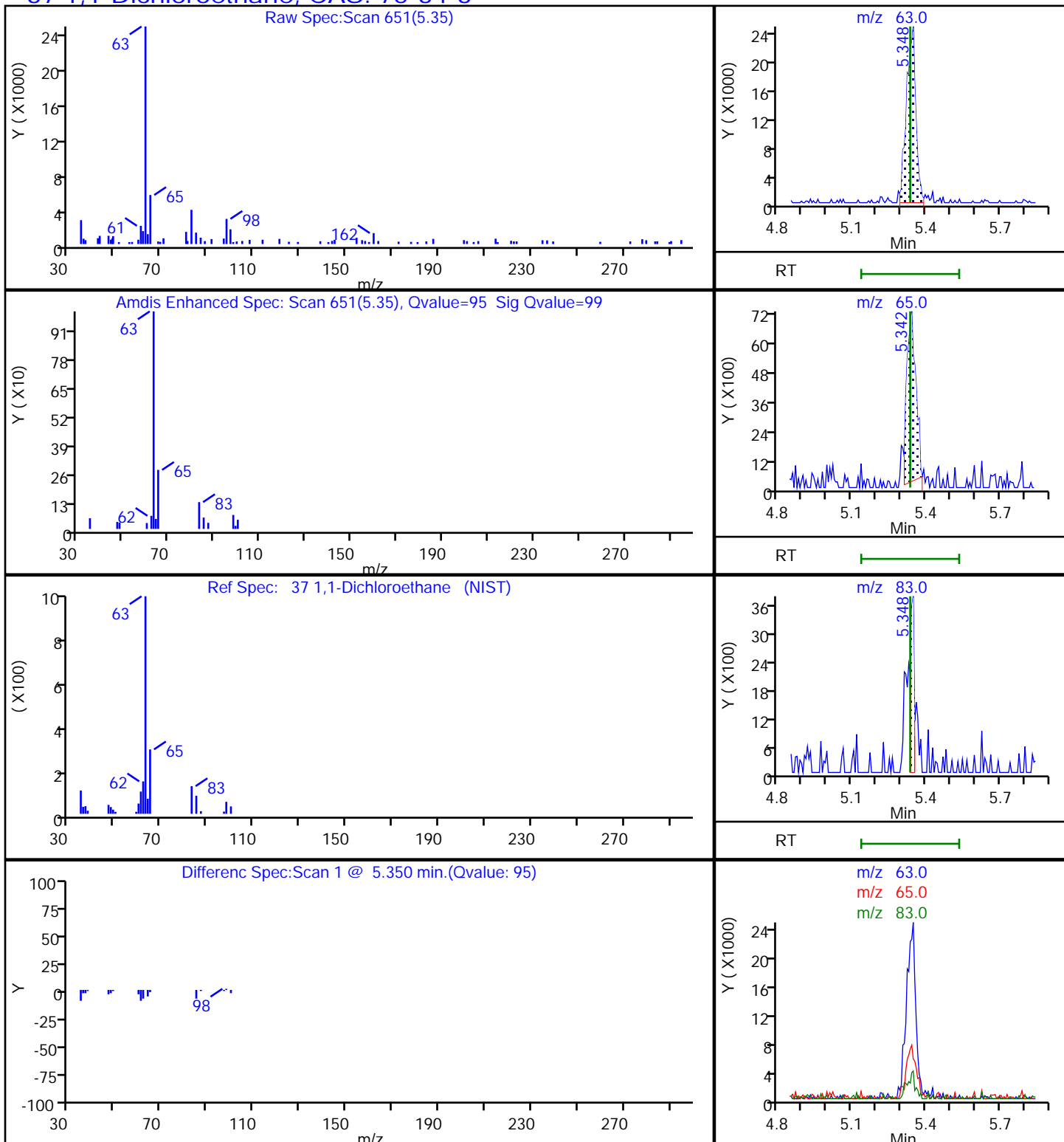
Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C_D ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

37 1,1-Dichloroethane, CAS: 75-34-3



Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101921.D

Injection Date: 19-Oct-2019 22:14:30

Instrument ID: CHHP6

Lims ID: 180-97133-A-5

Lab Sample ID: 180-97133-5

Client ID: HD-MW-79-0/1-0

Operator ID: 433269

ALS Bottle#: 15 Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

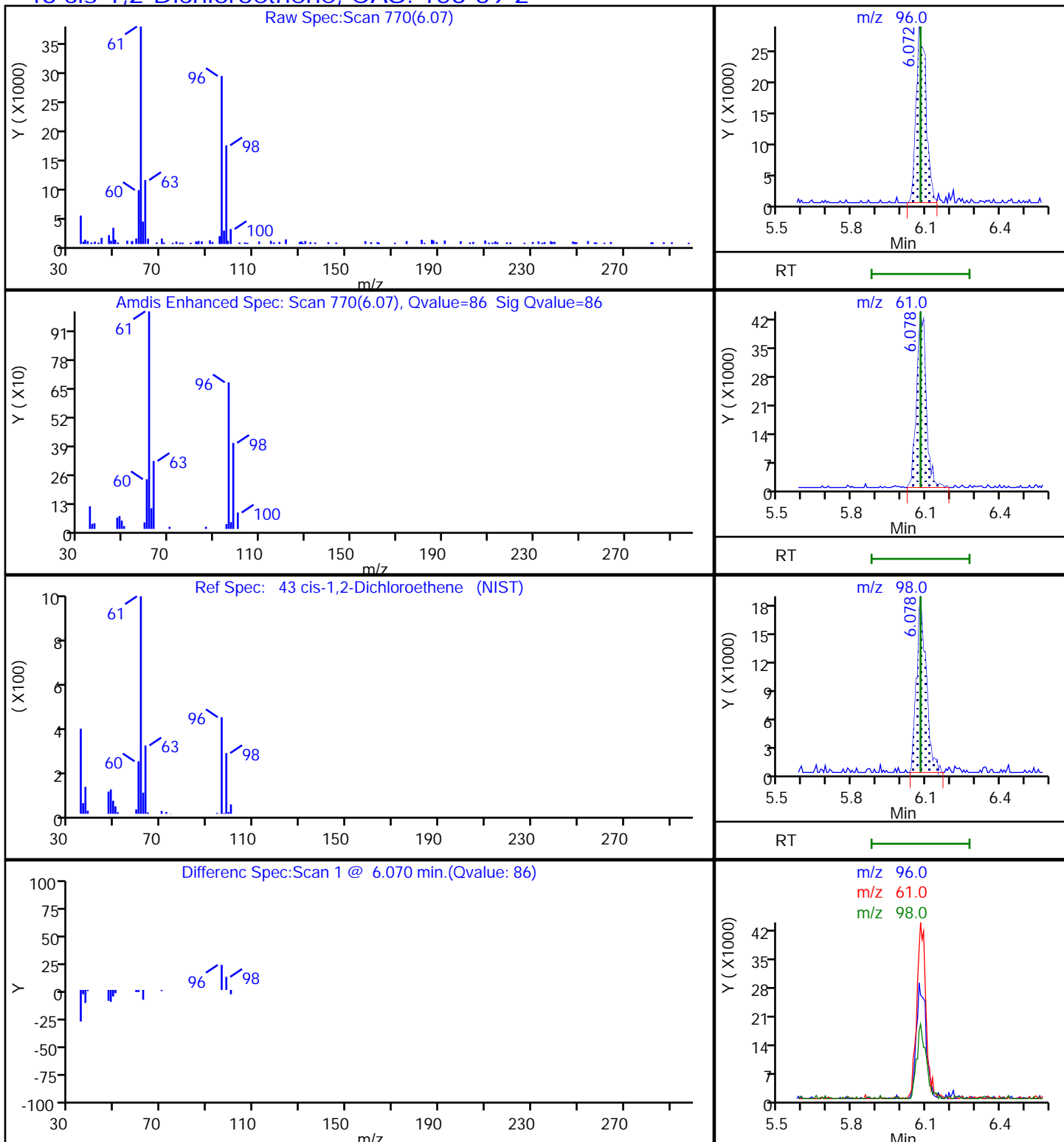
Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C_D ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

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

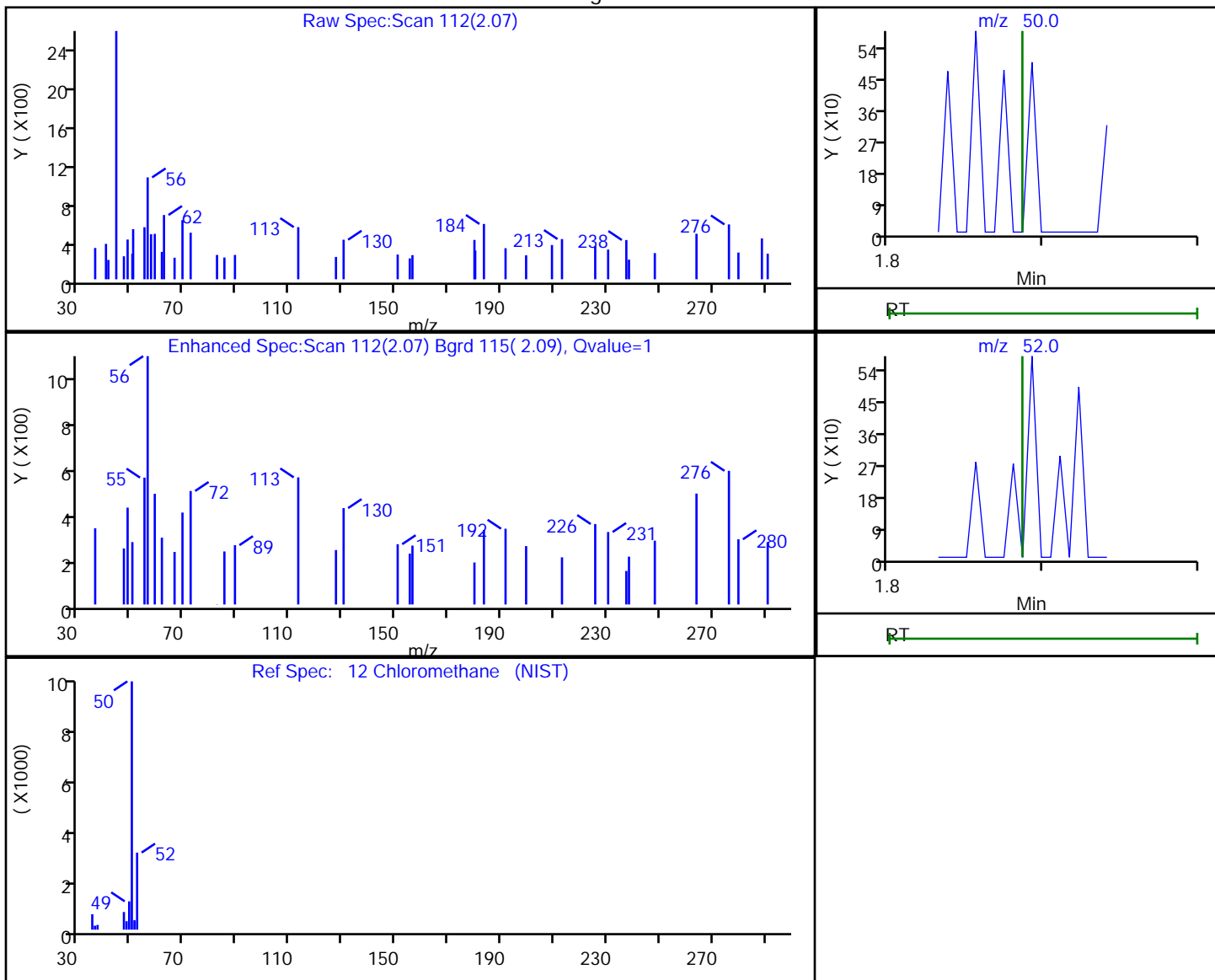


Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101921.D
 Injection Date: 19-Oct-2019 22:14:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-5 Lab Sample ID: 180-97133-5
 Client ID: HD-MW-79-0/1-0
 Operator ID: 433269 ALS Bottle#: 15 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

12 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
2.07	50.00	401	0.112162
2.08	52.00	290	

Reviewer: bowieh, 22-Oct-2019 09:56:07

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

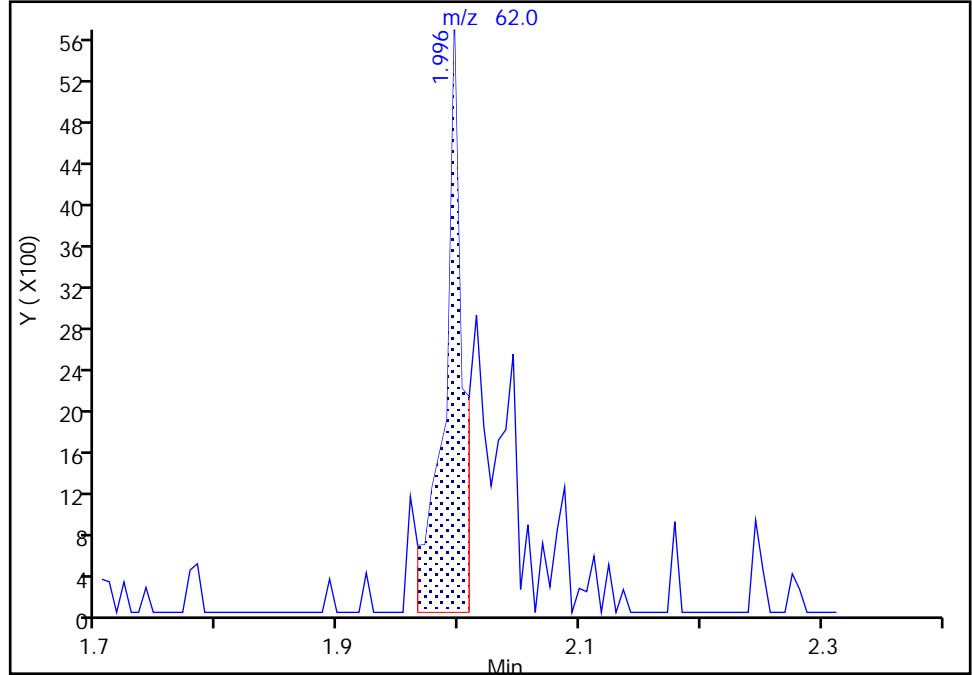
Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101921.D
Injection Date: 19-Oct-2019 22:14:30 Instrument ID: CHHP6
Lims ID: 180-97133-A-5 Lab Sample ID: 180-97133-5
Client ID: HD-MW-79-0/1-0
Operator ID: 433269 ALS Bottle#: 15 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

13 Vinyl chloride, CAS: 75-01-4

Signal: 1

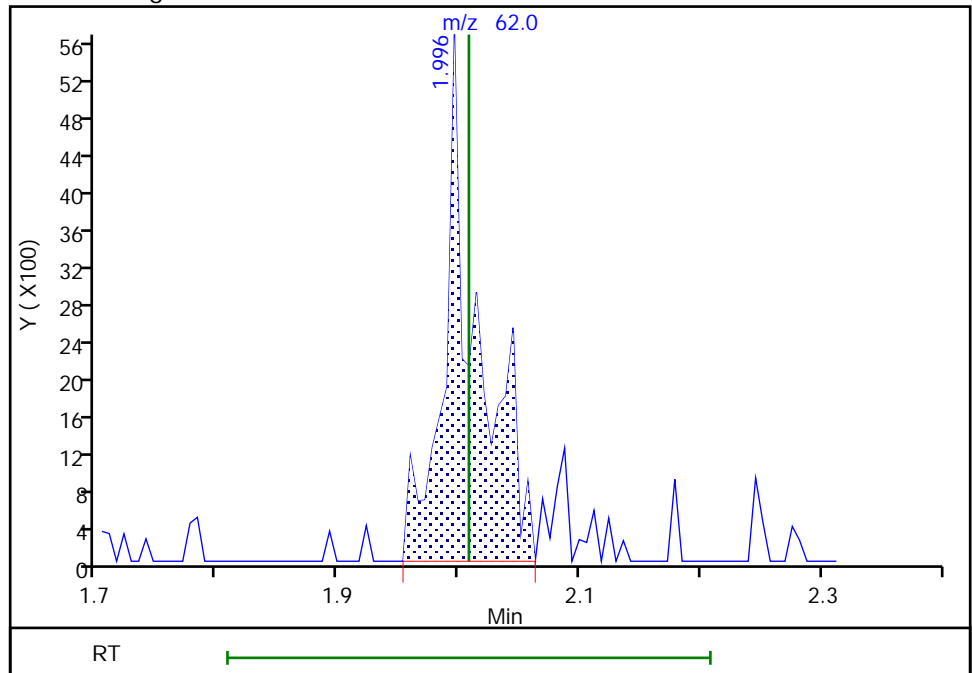
RT: 2.00
Area: 5768
Amount: 1.900742
Amount Units: ng

Processing Integration Results



RT: 2.00
Area: 10881
Amount: 3.585640
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 22-Oct-2019 09:56:17
Audit Action: Manually Integrated

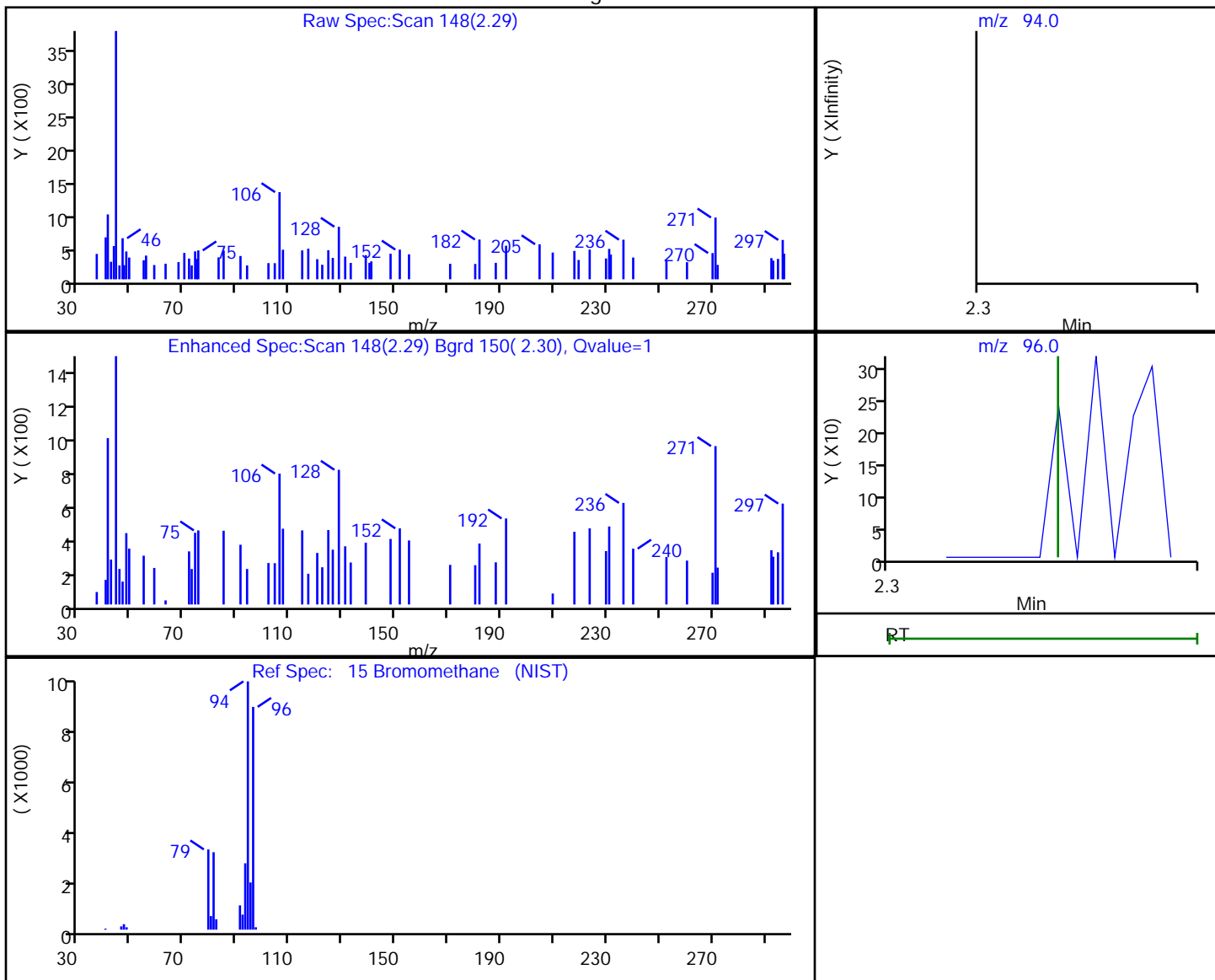
Audit Reason: Poor chromatography
Page 258 of 638

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101921.D
Injection Date: 19-Oct-2019 22:14:30 Instrument ID: CHHP6
Lims ID: 180-97133-A-5 Lab Sample ID: 180-97133-5
Client ID: HD-MW-79-0/1-0
Operator ID: 433269 ALS Bottle#: 15 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

15 Bromomethane, CAS: 74-83-9

Processing Results



RT	Mass	Response	Amount
2.29	94.00	76	0.059348
2.28	96.00	244	

Reviewer: bowieh, 22-Oct-2019 09:56:19

Audit Action: Marked Compound Undetected

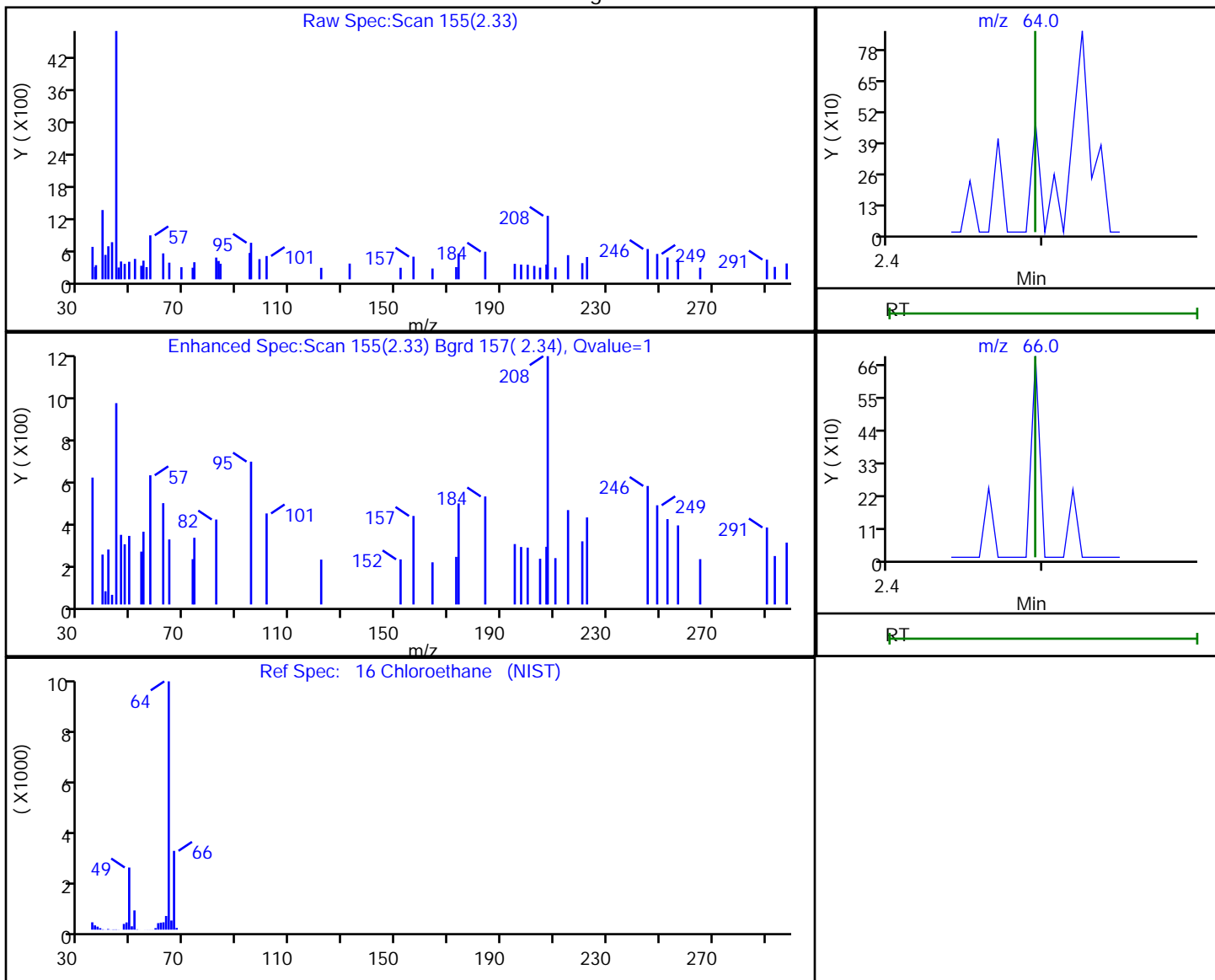
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101921.D
Injection Date: 19-Oct-2019 22:14:30 Instrument ID: CHHP6
Lims ID: 180-97133-A-5 Lab Sample ID: 180-97133-5
Client ID: HD-MW-79-0/1-0
Operator ID: 433269 ALS Bottle#: 15 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

16 Chloroethane, CAS: 75-00-3

Processing Results



RT	Mass	Response	Amount
2.33	64.00	204	-2.654183
2.32	66.00	177	

Reviewer: bowieh, 22-Oct-2019 09:56:20

Audit Action: Marked Compound Undetected

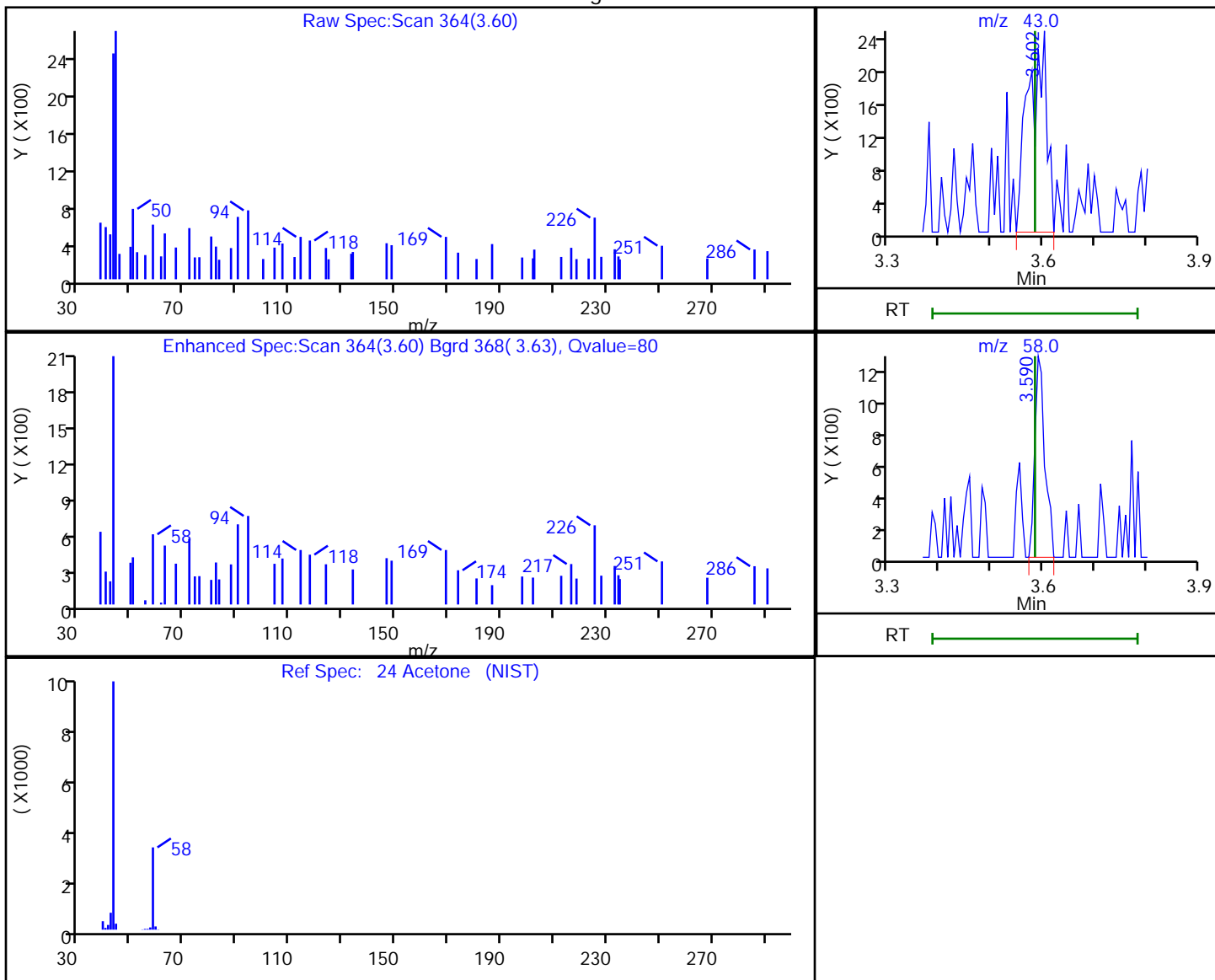
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101921.D
Injection Date: 19-Oct-2019 22:14:30 Instrument ID: CHHP6
Lims ID: 180-97133-A-5 Lab Sample ID: 180-97133-5
Client ID: HD-MW-79-0/1-0
Operator ID: 433269 ALS Bottle#: 15 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

24 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
3.60	43.00	5964	4.996041
3.59	58.00	1764	

Reviewer: bowieh, 22-Oct-2019 09:56:21

Audit Action: Marked Compound Undetected

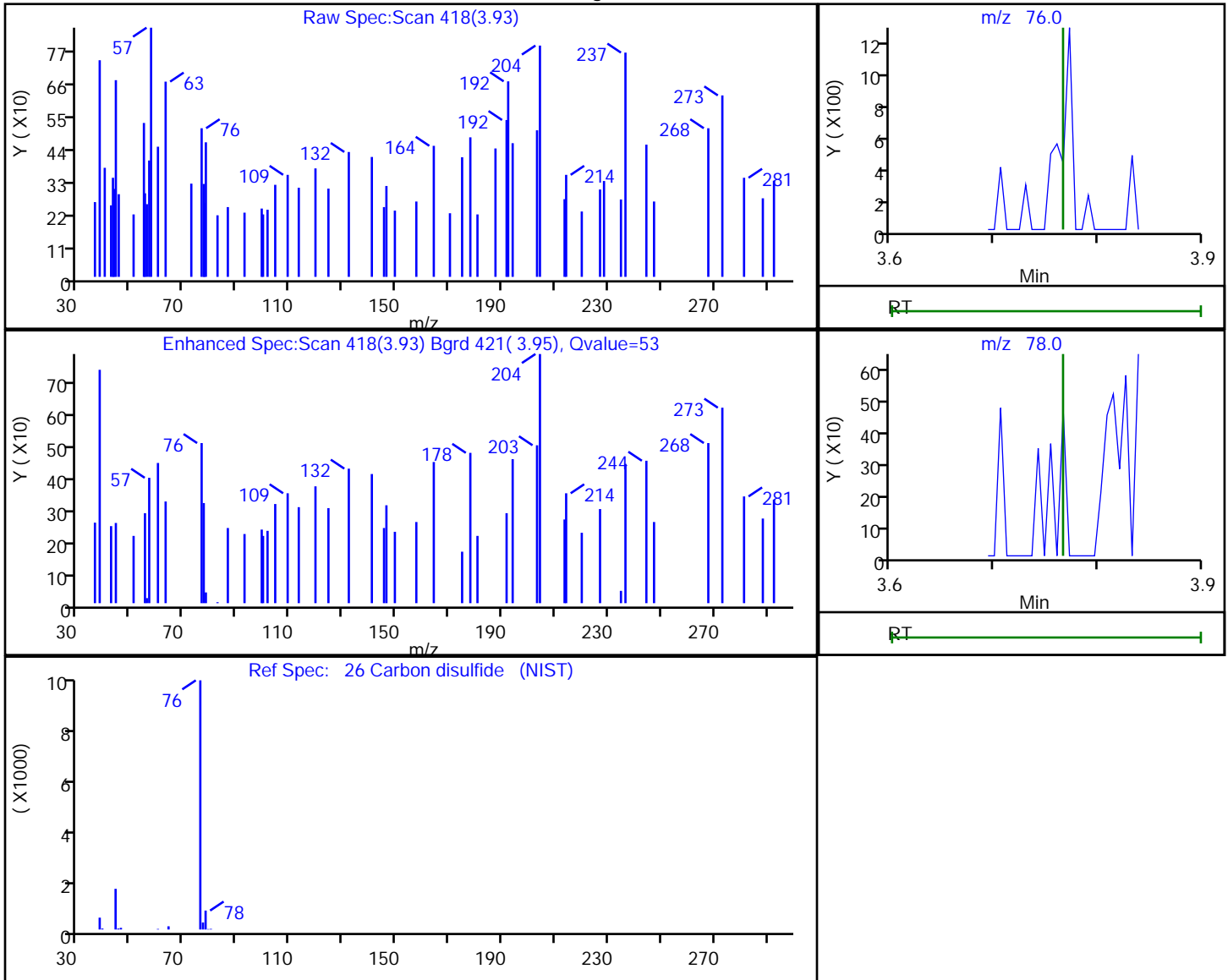
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101921.D
Injection Date: 19-Oct-2019 22:14:30 Instrument ID: CHHP6
Lims ID: 180-97133-A-5 Lab Sample ID: 180-97133-5
Client ID: HD-MW-79-0/1-0
Operator ID: 433269 ALS Bottle#: 15 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

26 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
3.93	76.00	418	0.076068
3.93	78.00	241	

Reviewer: bowieh, 22-Oct-2019 09:56:31

Audit Action: Marked Compound Undetected

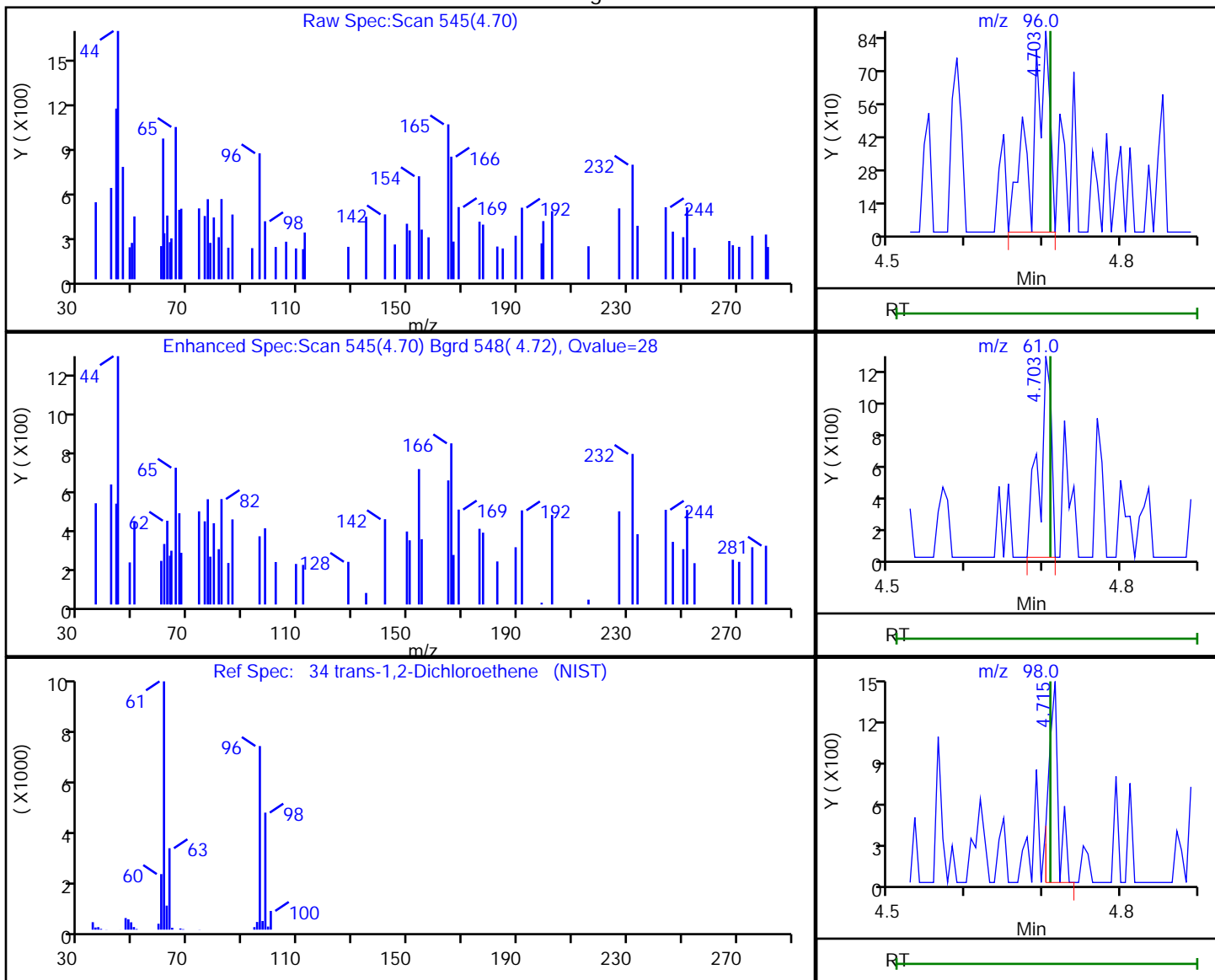
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101921.D
 Injection Date: 19-Oct-2019 22:14:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-5 Lab Sample ID: 180-97133-5
 Client ID: HD-MW-79-0/1-0
 Operator ID: 433269 ALS Bottle#: 15 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

34 trans-1,2-Dichloroethene, CAS: 156-60-5

Processing Results



RT	Mass	Response	Amount
4.70	96.00	1388	0.569211
4.70	61.00	1374	
4.72	98.00	1220	

Reviewer: bowieh, 22-Oct-2019 09:56:34

Audit Action: Marked Compound Undetected

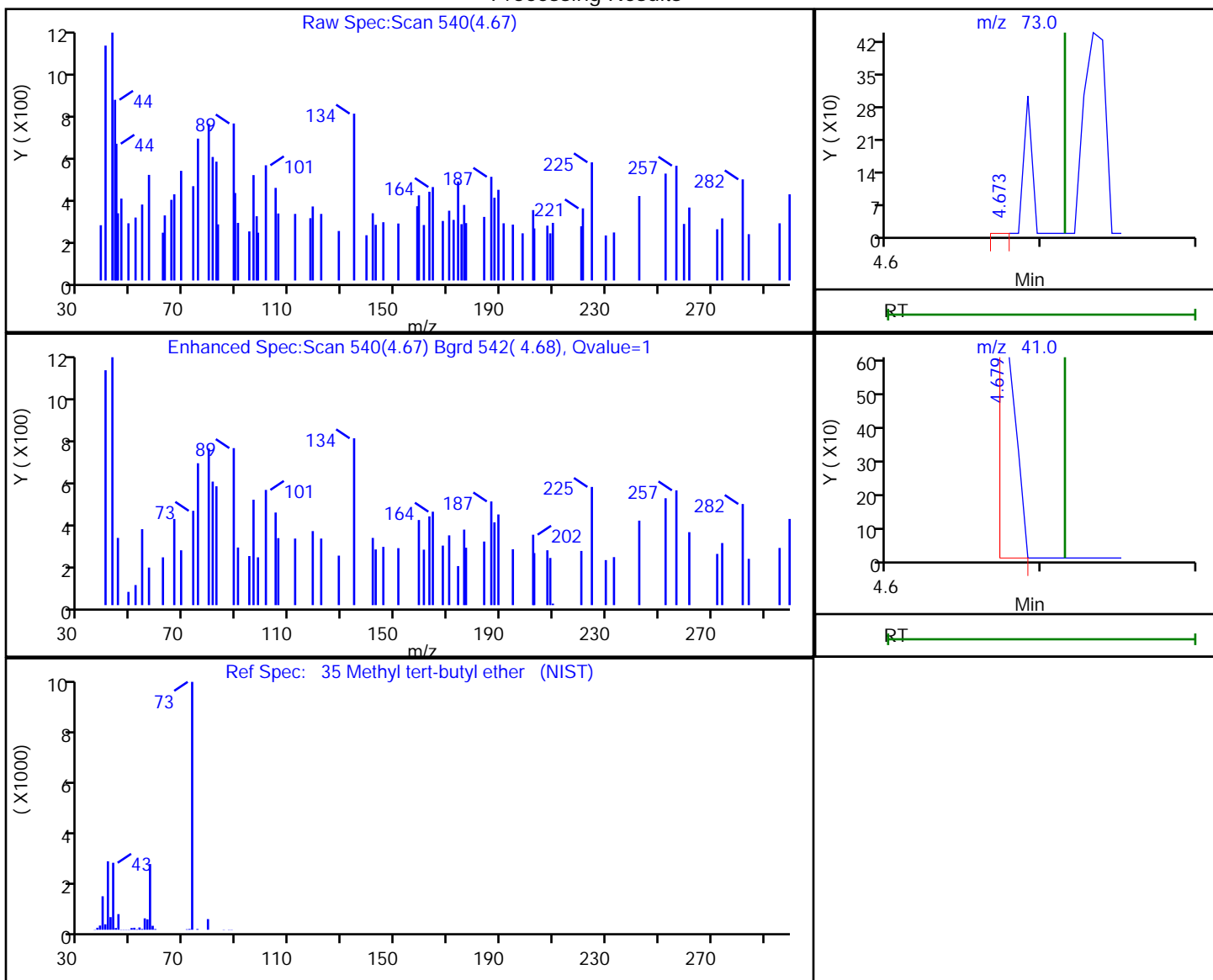
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101921.D
 Injection Date: 19-Oct-2019 22:14:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-5 Lab Sample ID: 180-97133-5
 Client ID: HD-MW-79-0/1-0
 Operator ID: 433269 ALS Bottle#: 15 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

35 Methyl tert-butyl ether, CAS: 1634-04-4

Processing Results



RT	Mass	Response	Amount
4.67	73.00	161	0.030542
4.68	41.00	339	

Reviewer: bowieh, 22-Oct-2019 09:56:38

Audit Action: Marked Compound Undetected

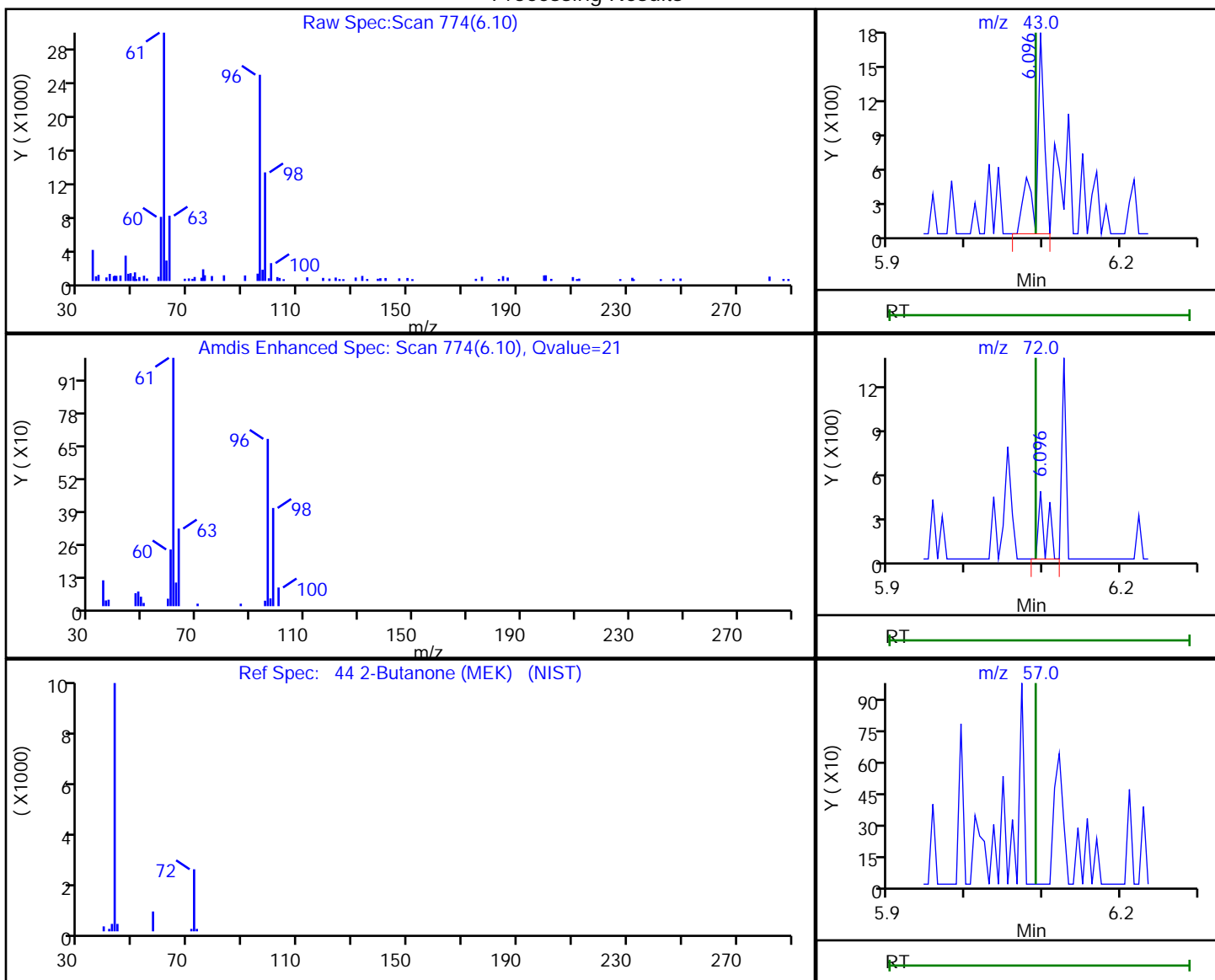
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101921.D
 Injection Date: 19-Oct-2019 22:14:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-5 Lab Sample ID: 180-97133-5
 Client ID: HD-MW-79-0/1-0
 Operator ID: 433269 ALS Bottle#: 15 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

44 2-Butanone (MEK), CAS: 78-93-3

Processing Results



RT	Mass	Response	Amount
6.10	43.00	1315	1.099474
6.10	72.00	312	
6.09	57.00	0	

Reviewer: bowieh, 22-Oct-2019 09:56:41

Audit Action: Marked Compound Undetected

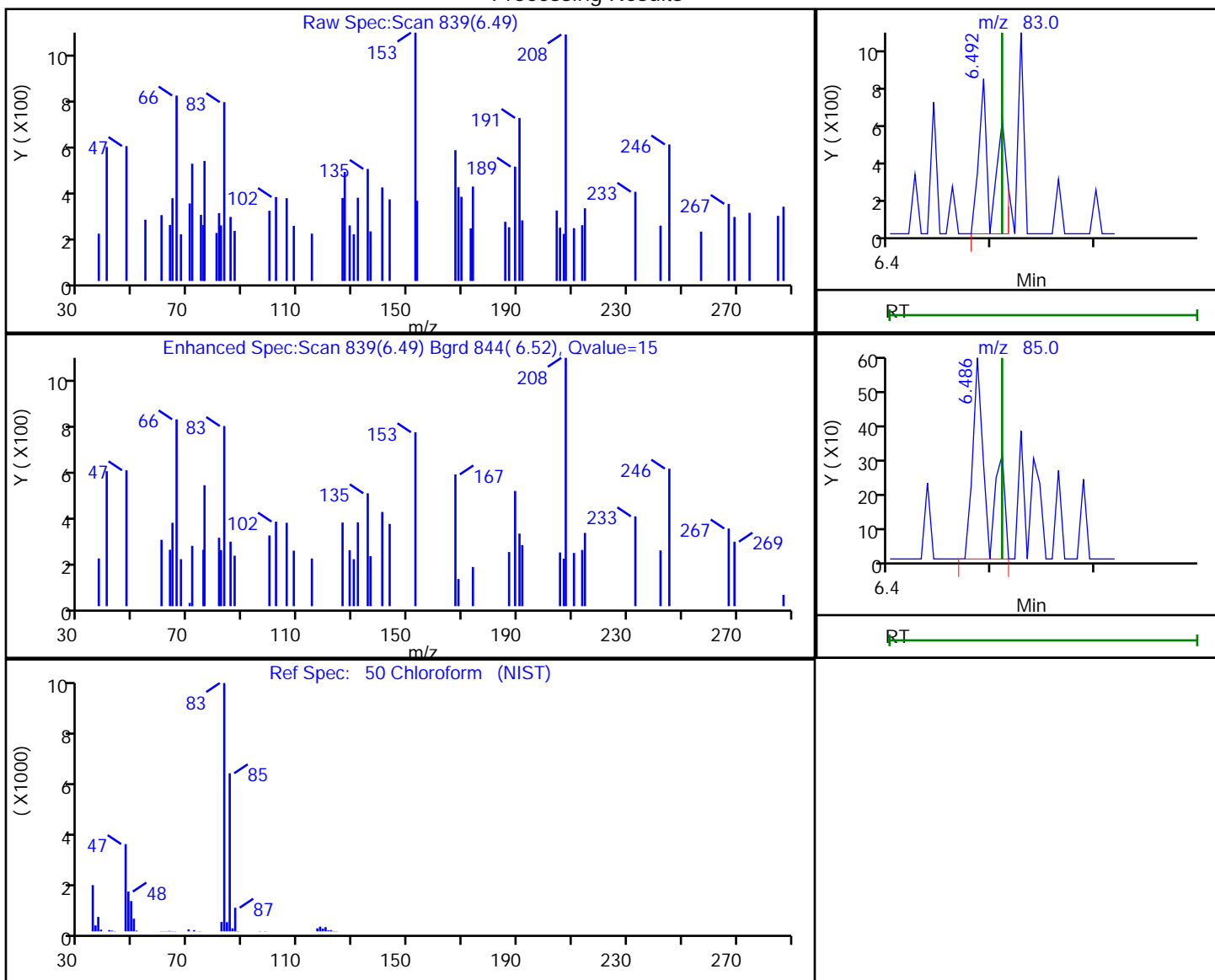
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101921.D
 Injection Date: 19-Oct-2019 22:14:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-5 Lab Sample ID: 180-97133-5
 Client ID: HD-MW-79-0/1-0
 Operator ID: 433269 ALS Bottle#: 15 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

50 Chloroform, CAS: 67-66-3

Processing Results



RT	Mass	Response	Amount
6.49	83.00	798	0.181453
6.49	85.00	602	

Reviewer: bowieh, 22-Oct-2019 09:56:42

Audit Action: Marked Compound Undetected

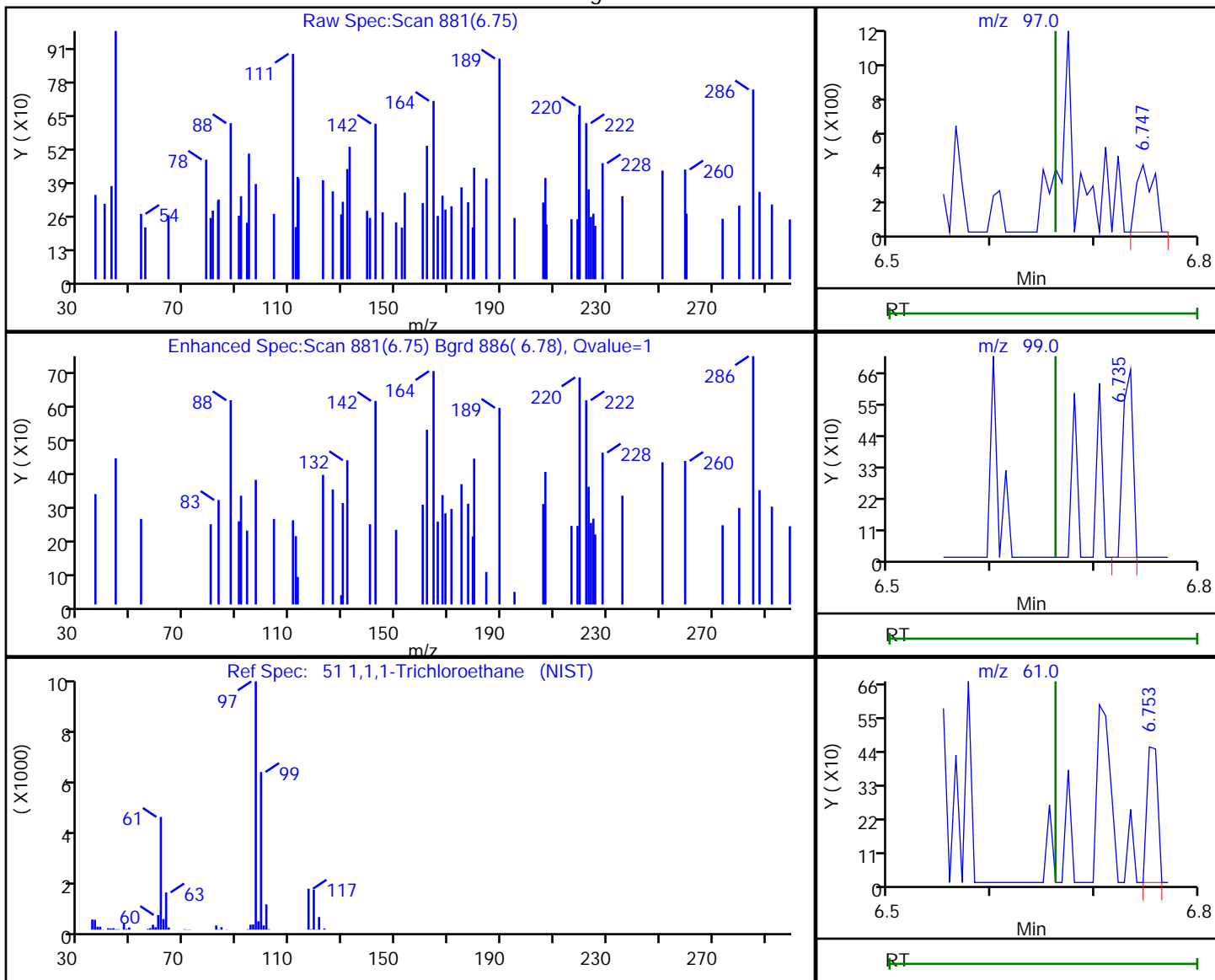
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101921.D
 Injection Date: 19-Oct-2019 22:14:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-5 Lab Sample ID: 180-97133-5
 Client ID: HD-MW-79-0/1-0
 Operator ID: 433269 ALS Bottle#: 15 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

51 1,1,1-Trichloroethane, CAS: 71-55-6

Processing Results



RT	Mass	Response	Amount
6.75	97.00	439	0.117750
6.74	99.00	445	
6.75	61.00	327	

Reviewer: bowieh, 22-Oct-2019 09:56:44

Audit Action: Marked Compound Undetected

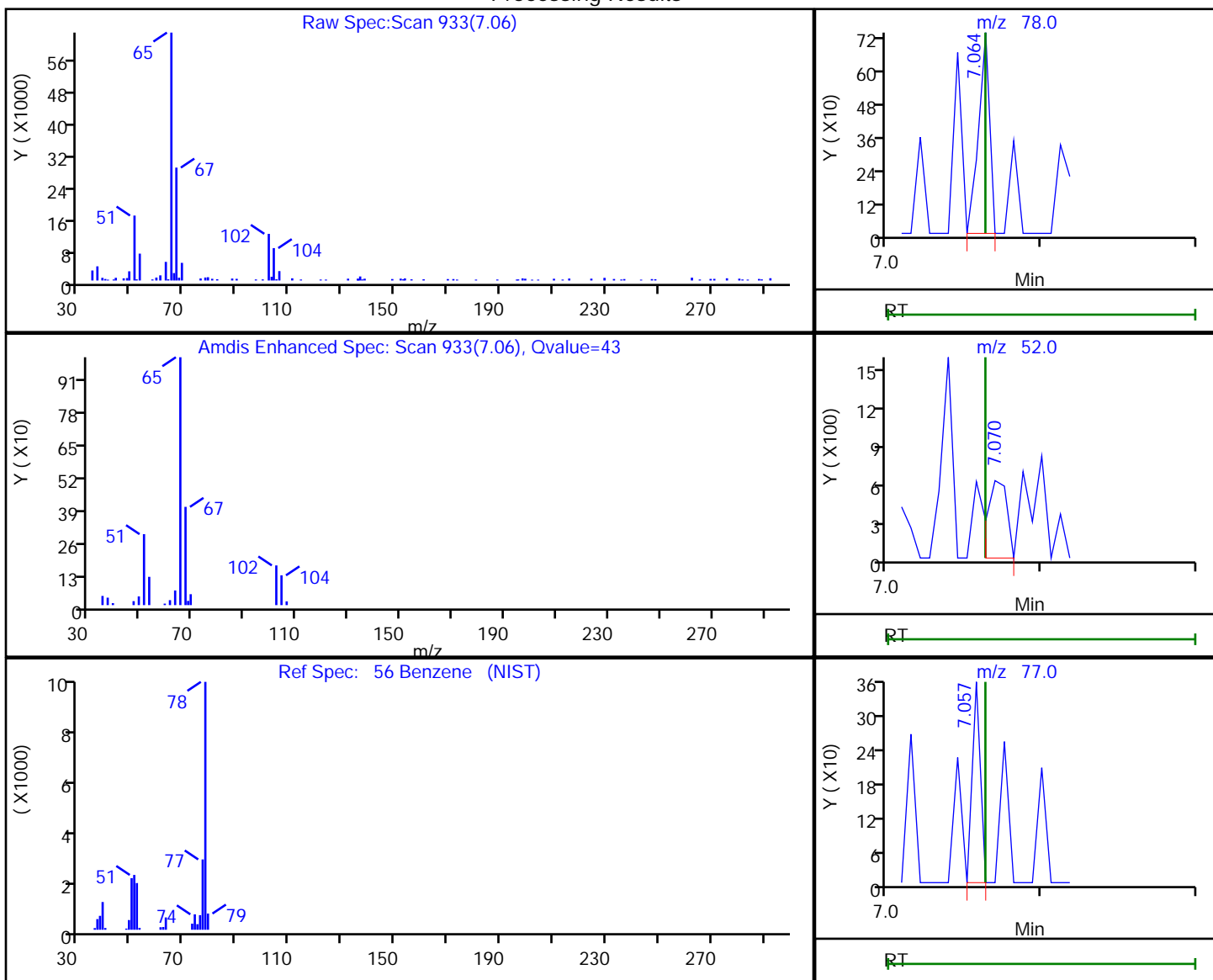
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101921.D
 Injection Date: 19-Oct-2019 22:14:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-5 Lab Sample ID: 180-97133-5
 Client ID: HD-MW-79-0/1-0
 Operator ID: 433269 ALS Bottle#: 15 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

56 Benzene, CAS: 71-43-2

Processing Results



RT	Mass	Response	Amount
7.06	78.00	367	0.041729
7.07	52.00	519	
7.06	77.00	129	

Reviewer: bowieh, 22-Oct-2019 09:56:46

Audit Action: Marked Compound Undetected

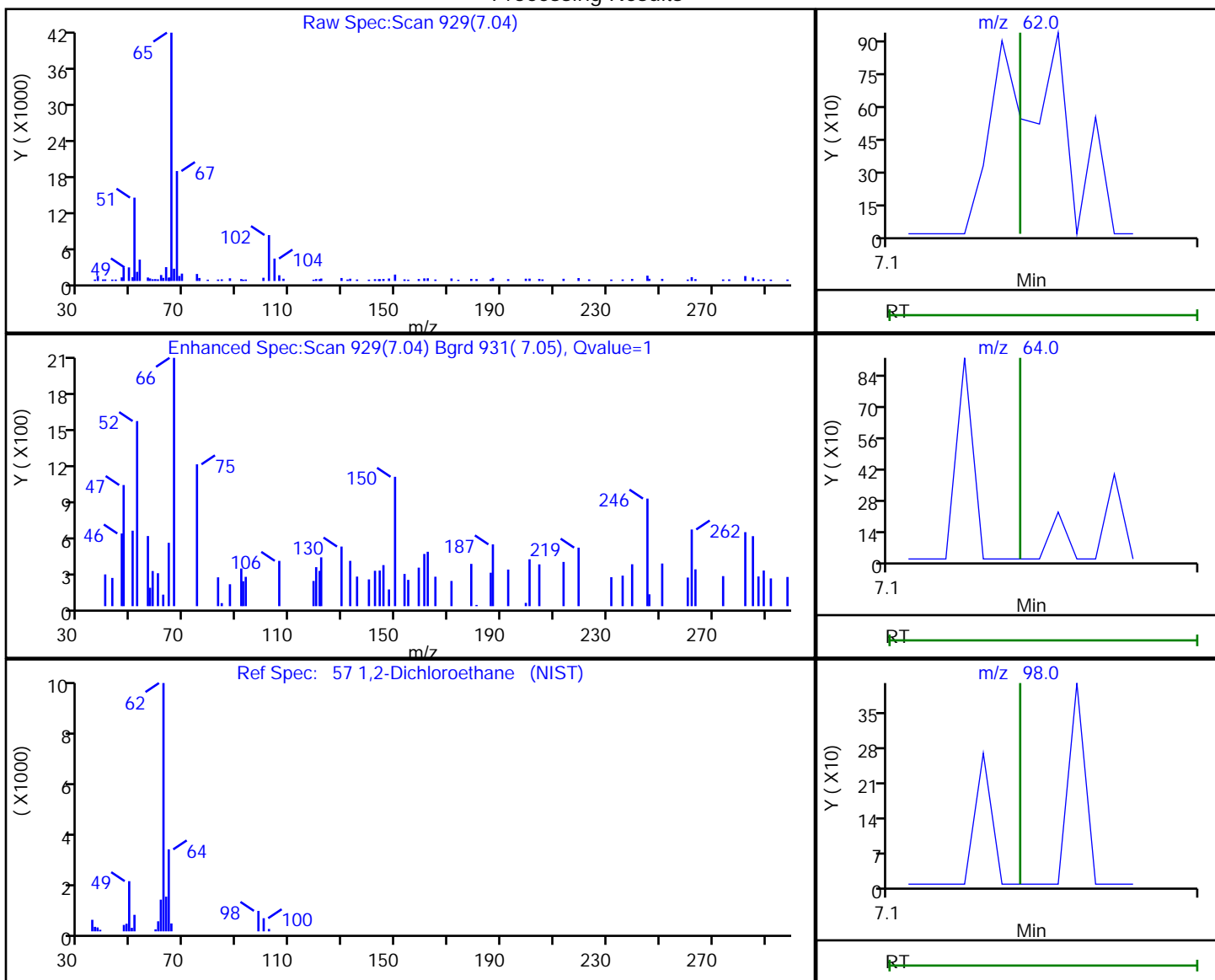
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101921.D
 Injection Date: 19-Oct-2019 22:14:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-5 Lab Sample ID: 180-97133-5
 Client ID: HD-MW-79-0/1-0
 Operator ID: 433269 ALS Bottle#: 15 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

57 1,2-Dichloroethane, CAS: 107-06-2

Processing Results



RT	Mass	Response	Amount
7.04	62.00	188	0.047178
7.04	64.00	649	
7.14	98.00	0	

Reviewer: bowieh, 22-Oct-2019 09:56:47

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

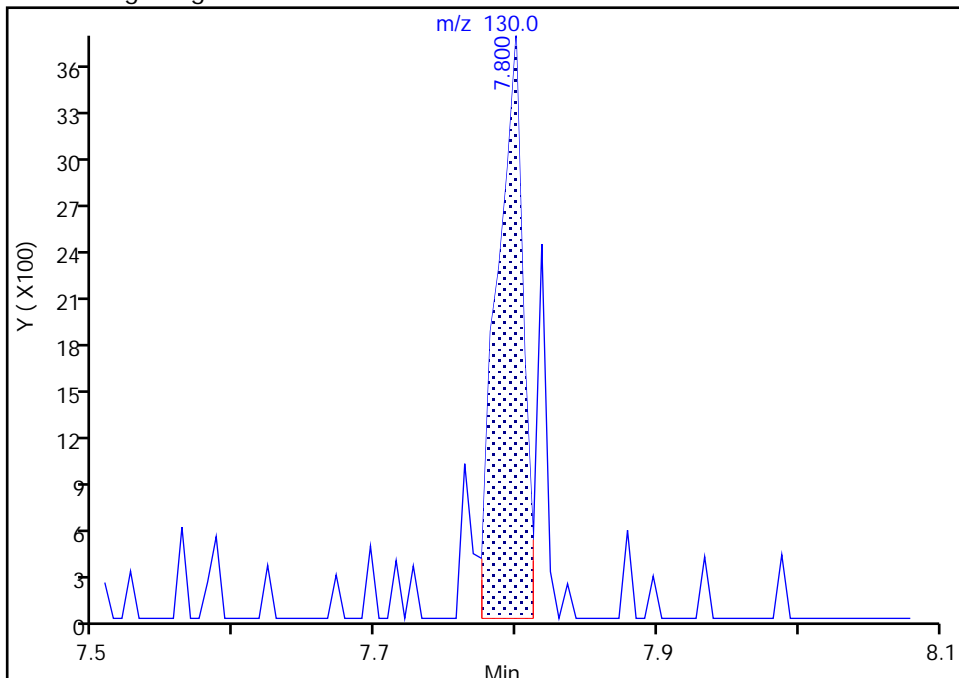
Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101921.D
Injection Date: 19-Oct-2019 22:14:30 Instrument ID: CHHP6
Lims ID: 180-97133-A-5 Lab Sample ID: 180-97133-5
Client ID: HD-MW-79-0/1-0
Operator ID: 433269 ALS Bottle#: 15 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

61 Trichloroethene, CAS: 79-01-6

Signal: 1

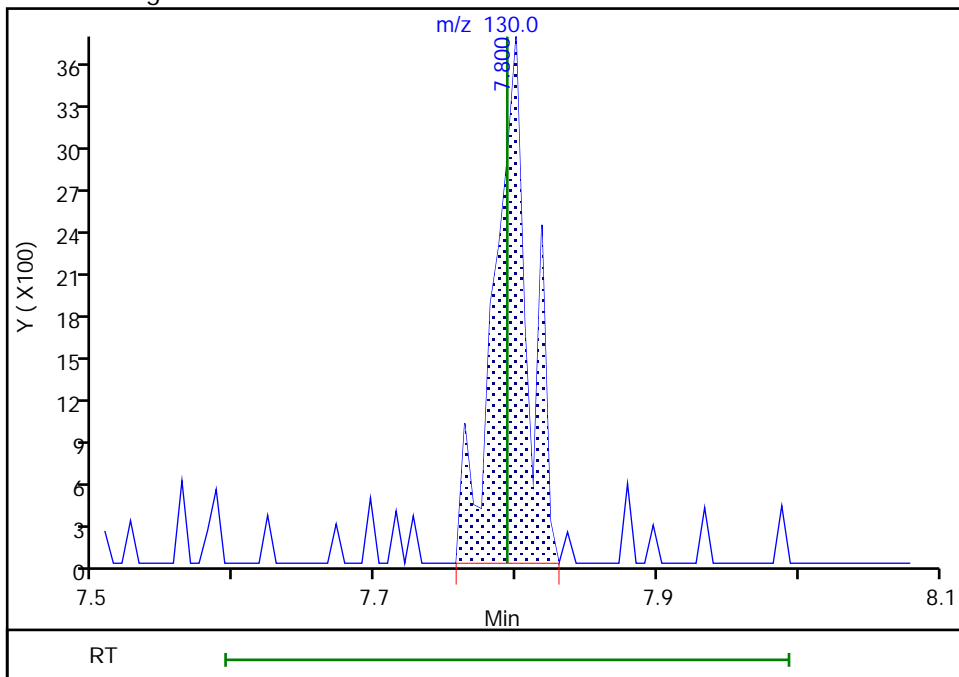
RT: 7.80
Area: 4928
Amount: 1.811627
Amount Units: ng

Processing Integration Results



RT: 7.80
Area: 6449
Amount: 2.370776
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 22-Oct-2019 09:56:52
Audit Action: Manually Integrated

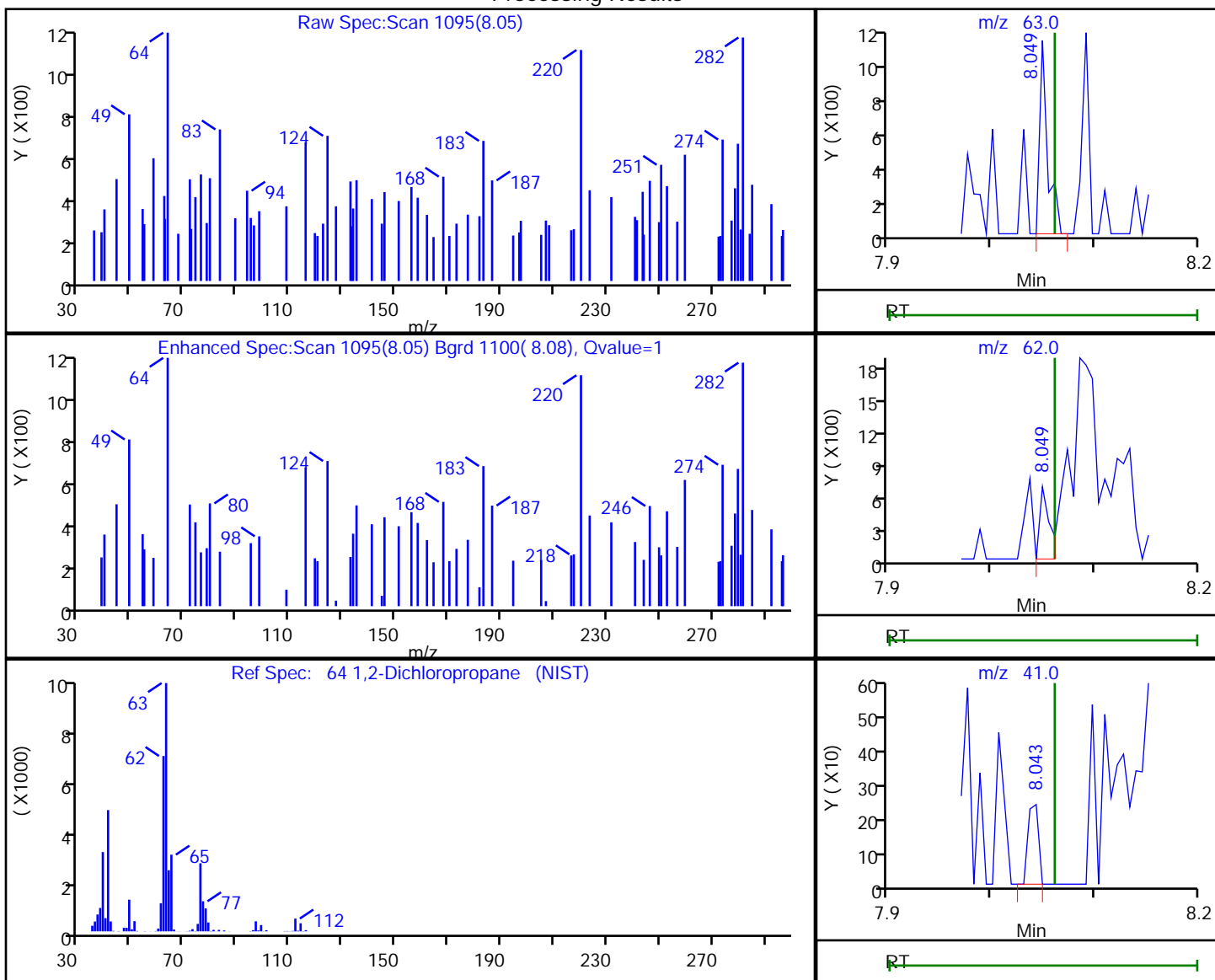
Audit Reason: Poor chromatography
Page 270 of 638

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101921.D
 Injection Date: 19-Oct-2019 22:14:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-5 Lab Sample ID: 180-97133-5
 Client ID: HD-MW-79-0/1-0
 Operator ID: 433269 ALS Bottle#: 15 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

64 1,2-Dichloropropane, CAS: 78-87-5

Processing Results



RT	Mass	Response	Amount
8.05	63.00	610	0.290641
8.05	62.00	447	
8.04	41.00	166	

Reviewer: bowieh, 22-Oct-2019 09:56:53

Audit Action: Marked Compound Undetected

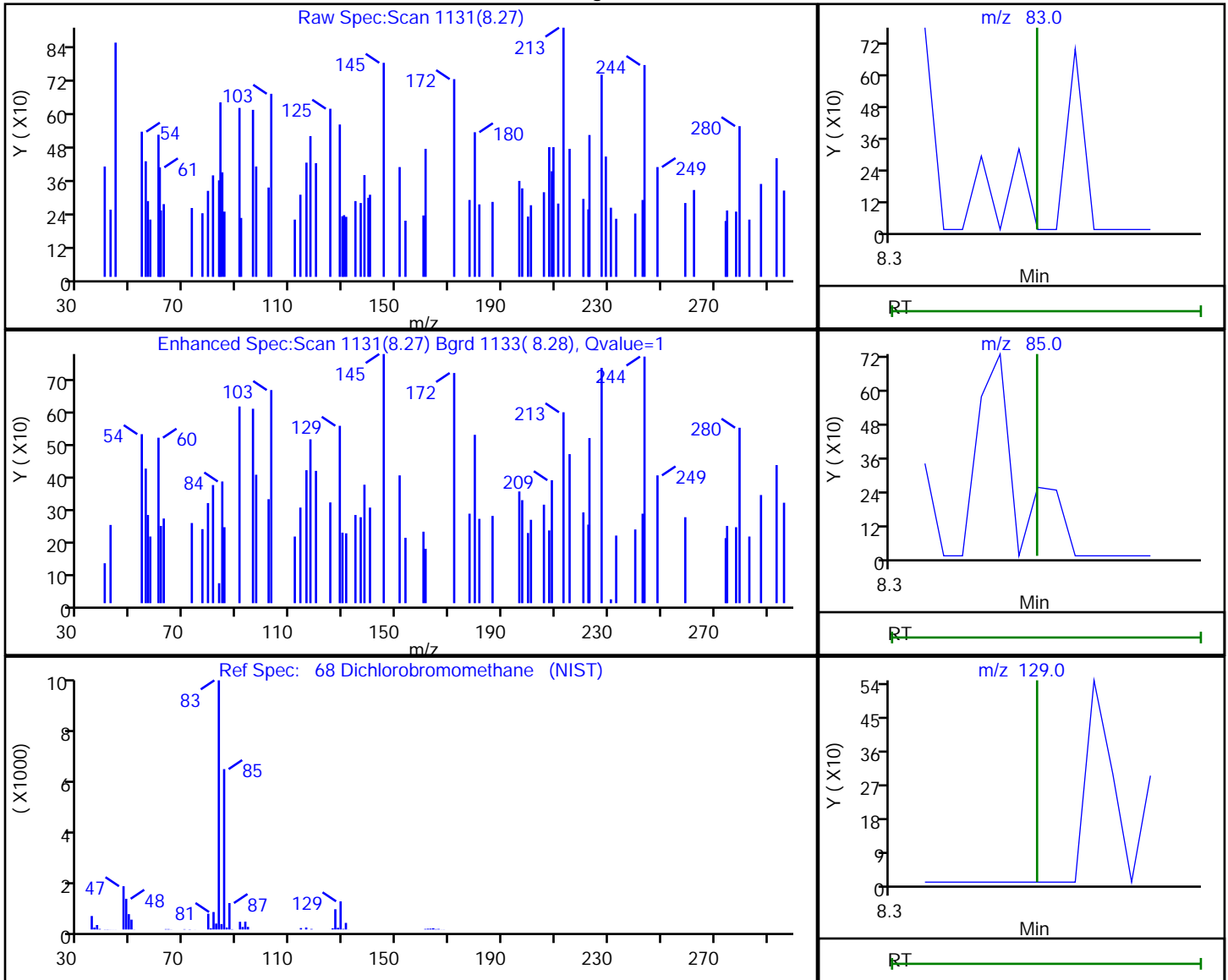
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101921.D
 Injection Date: 19-Oct-2019 22:14:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-5 Lab Sample ID: 180-97133-5
 Client ID: HD-MW-79-0/1-0
 Operator ID: 433269 ALS Bottle#: 15 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

68 Dichlorobromomethane, CAS: 75-27-4

Processing Results



RT	Mass	Response	Amount
8.27	83.00	358	0.134912
8.27	85.00	365	
8.27	129.00	279	

Reviewer: bowieh, 22-Oct-2019 09:56:54

Audit Action: Marked Compound Undetected

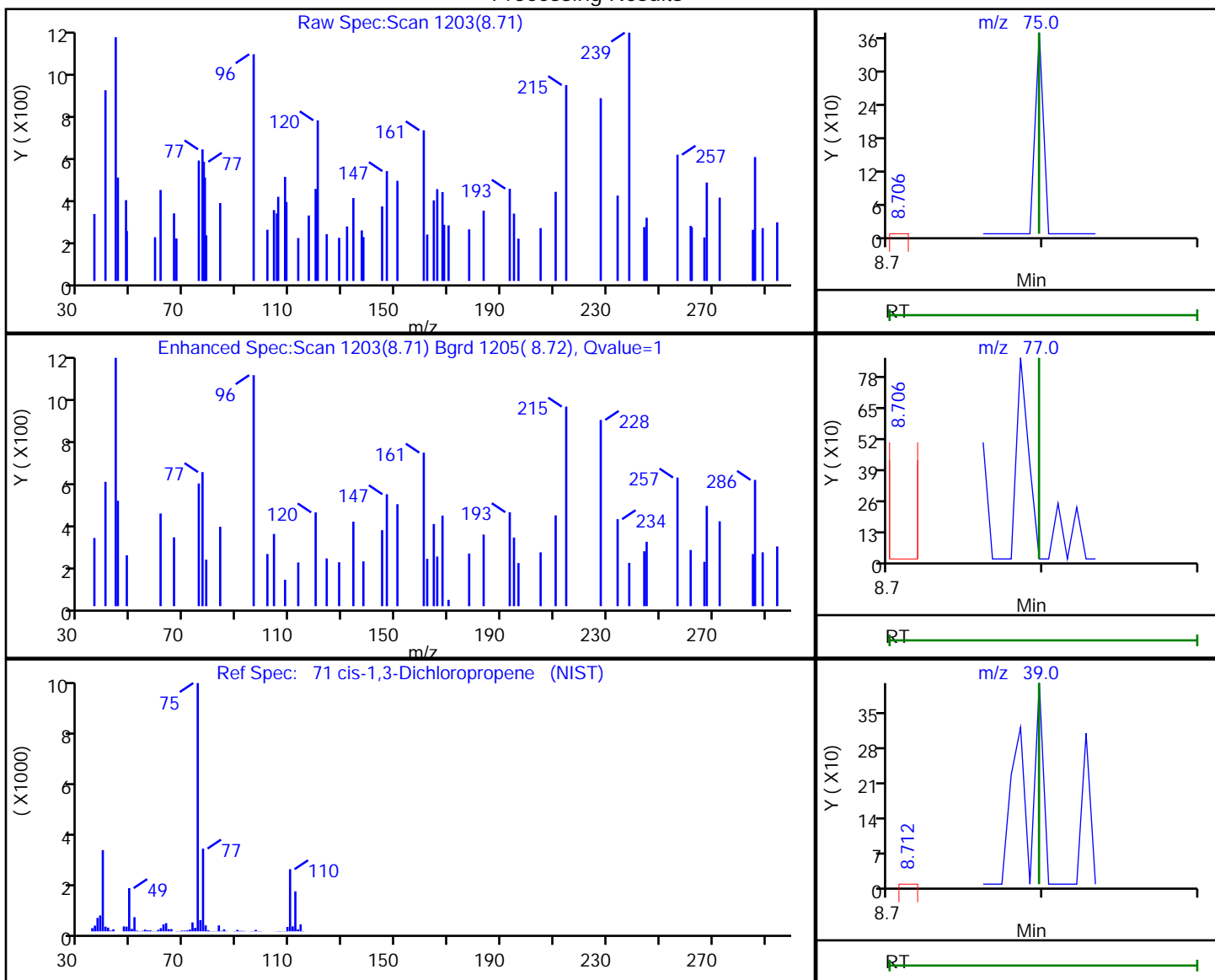
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101921.D
 Injection Date: 19-Oct-2019 22:14:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-5 Lab Sample ID: 180-97133-5
 Client ID: HD-MW-79-0/1-0
 Operator ID: 433269 ALS Bottle#: 15 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

71 cis-1,3-Dichloropropene, CAS: 10061-01-5

Processing Results



RT	Mass	Response	Amount
8.71	75.00	290	0.105876
8.71	77.00	518	
8.71	39.00	104	

Reviewer: bowieh, 22-Oct-2019 09:56:55

Audit Action: Marked Compound Undetected

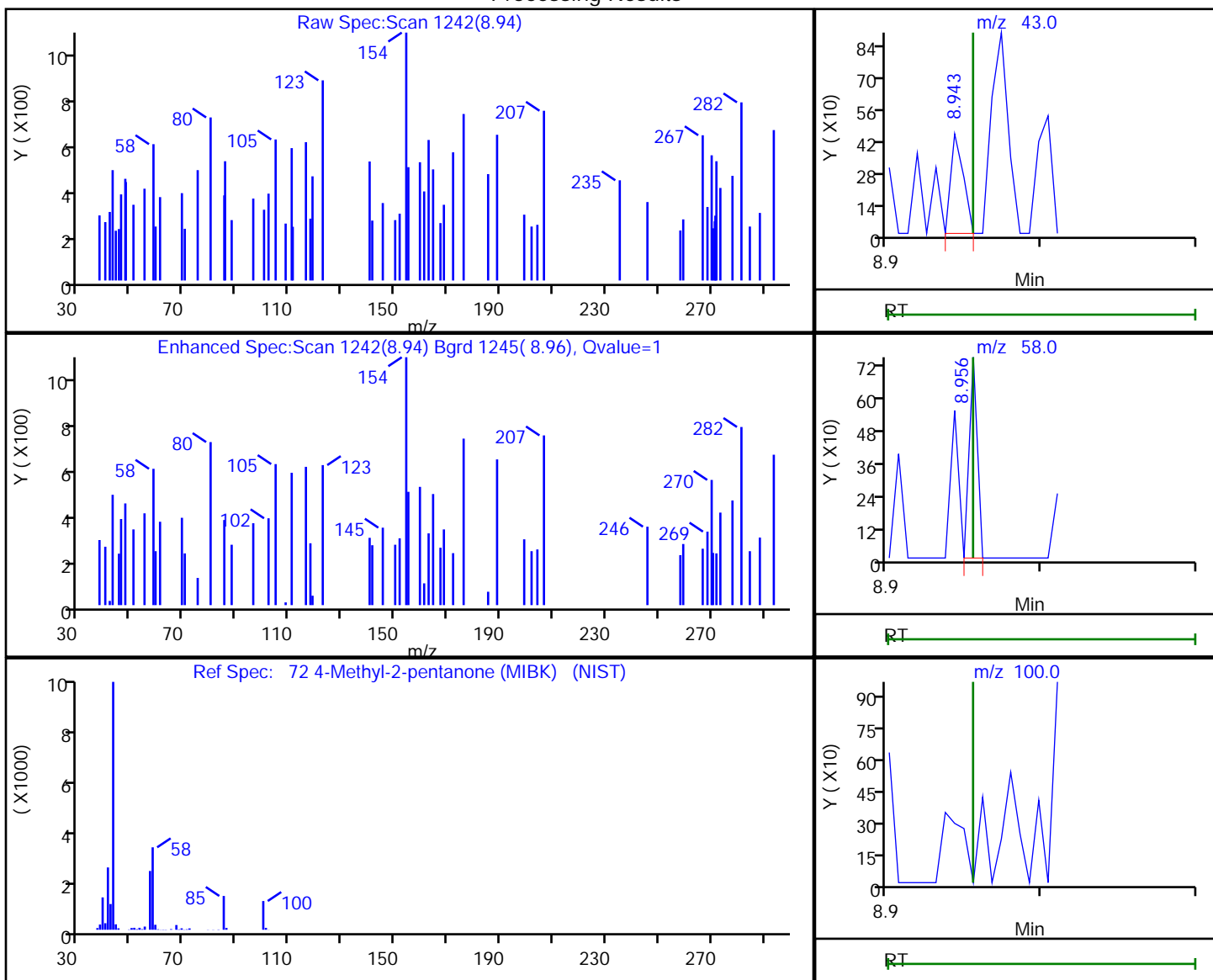
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101921.D
 Injection Date: 19-Oct-2019 22:14:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-5 Lab Sample ID: 180-97133-5
 Client ID: HD-MW-79-0/1-0
 Operator ID: 433269 ALS Bottle#: 15 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

72 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
8.94	43.00	254	0.138837
8.96	58.00	274	
8.96	100.00	0	

Reviewer: bowieh, 22-Oct-2019 09:56:57

Audit Action: Marked Compound Undetected

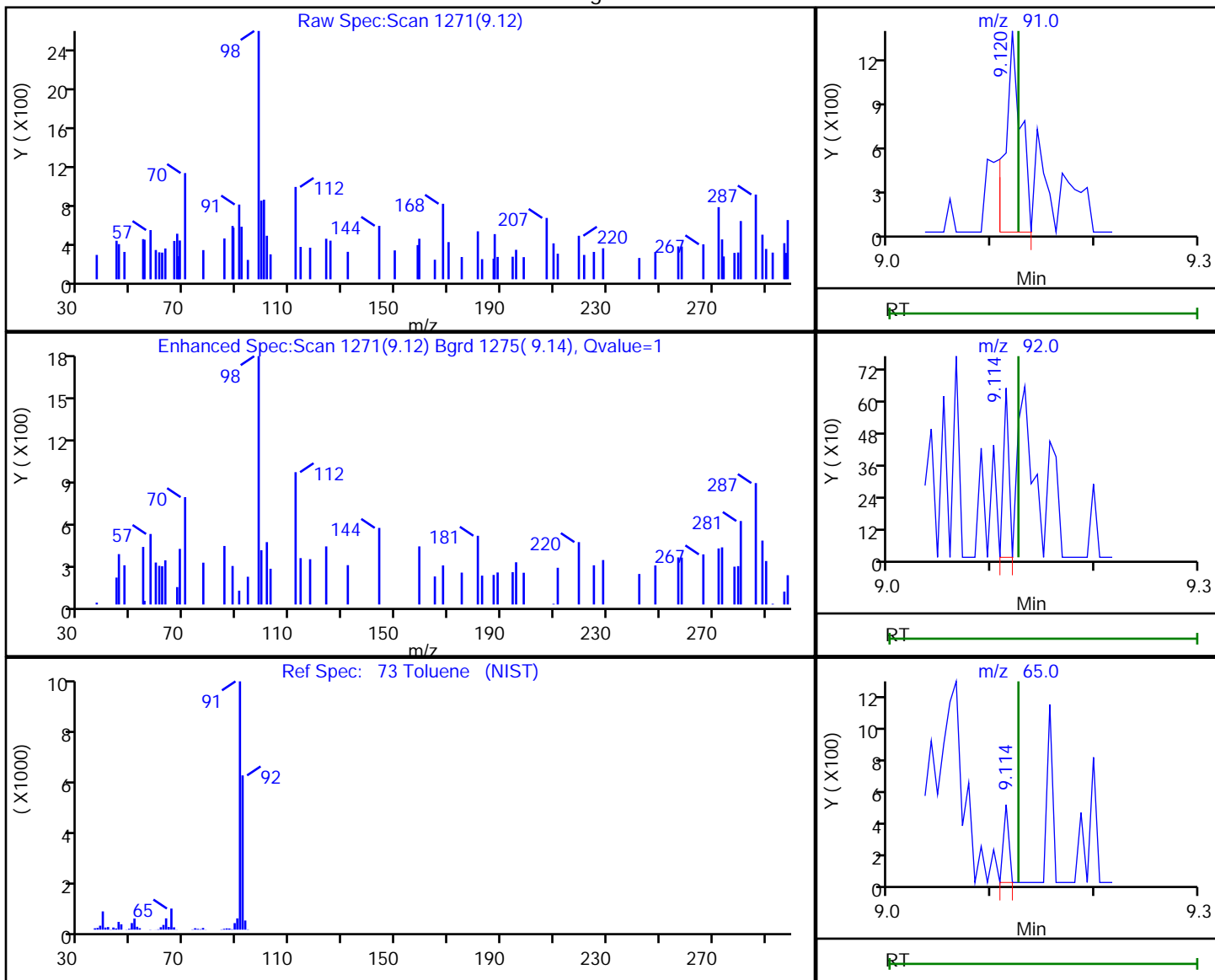
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101921.D
Injection Date: 19-Oct-2019 22:14:30 Instrument ID: CHHP6
Lims ID: 180-97133-A-5 Lab Sample ID: 180-97133-5
Client ID: HD-MW-79-0/1-0
Operator ID: 433269 ALS Bottle#: 15 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

73 Toluene, CAS: 108-88-3

Processing Results



RT	Mass	Response	Amount
9.12	91.00	1358	0.139872
9.11	92.00	234	
9.11	65.00	181	

Reviewer: bowieh, 22-Oct-2019 09:57:00

Audit Action: Marked Compound Undetected

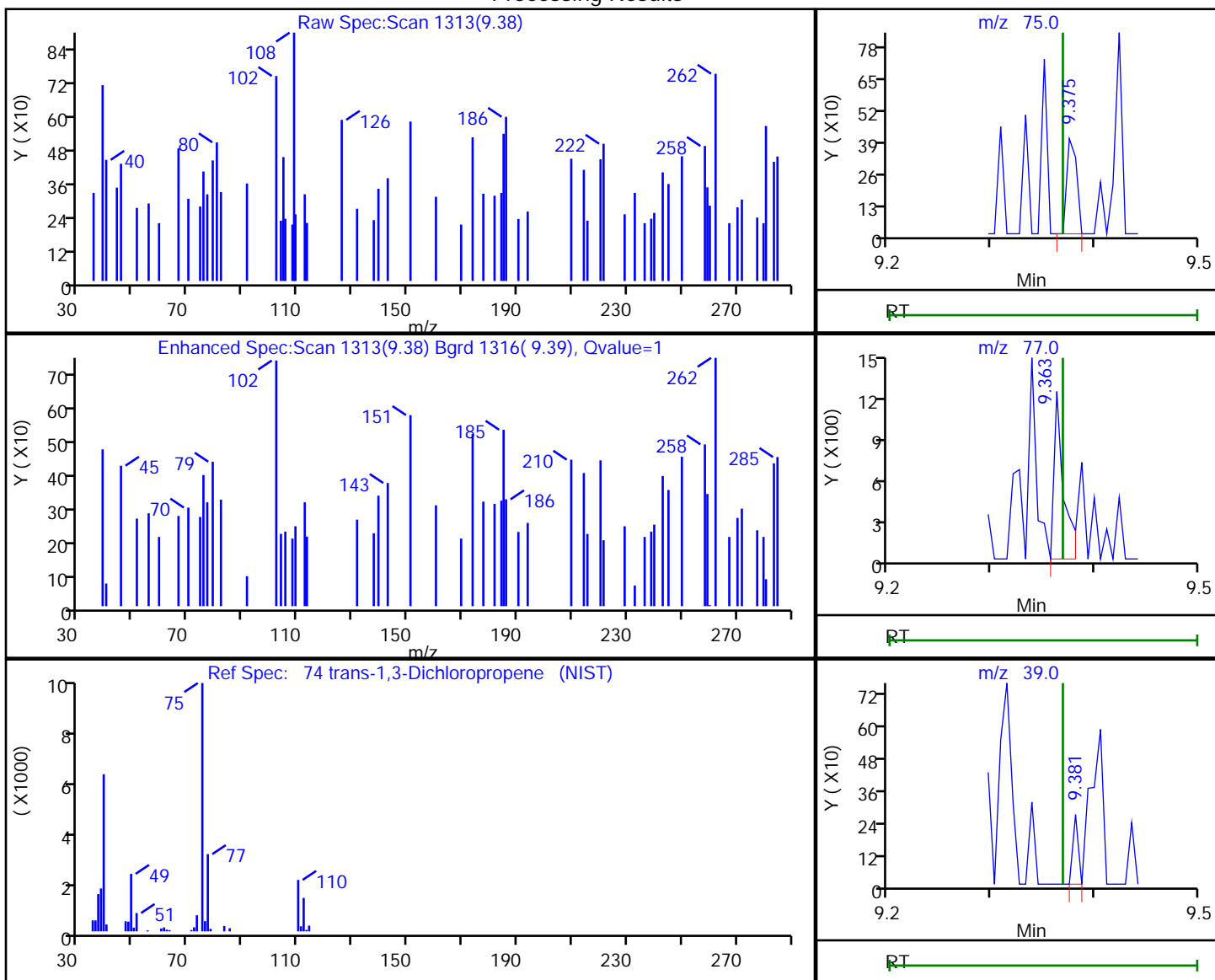
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101921.D
 Injection Date: 19-Oct-2019 22:14:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-5 Lab Sample ID: 180-97133-5
 Client ID: HD-MW-79-0/1-0
 Operator ID: 433269 ALS Bottle#: 15 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

74 trans-1,3-Dichloropropene, CAS: 10061-02-6

Processing Results



RT	Mass	Response	Amount
9.38	75.00	260	1.852002
9.36	77.00	803	
9.38	39.00	95	

Reviewer: bowieh, 22-Oct-2019 09:57:02

Audit Action: Marked Compound Undetected

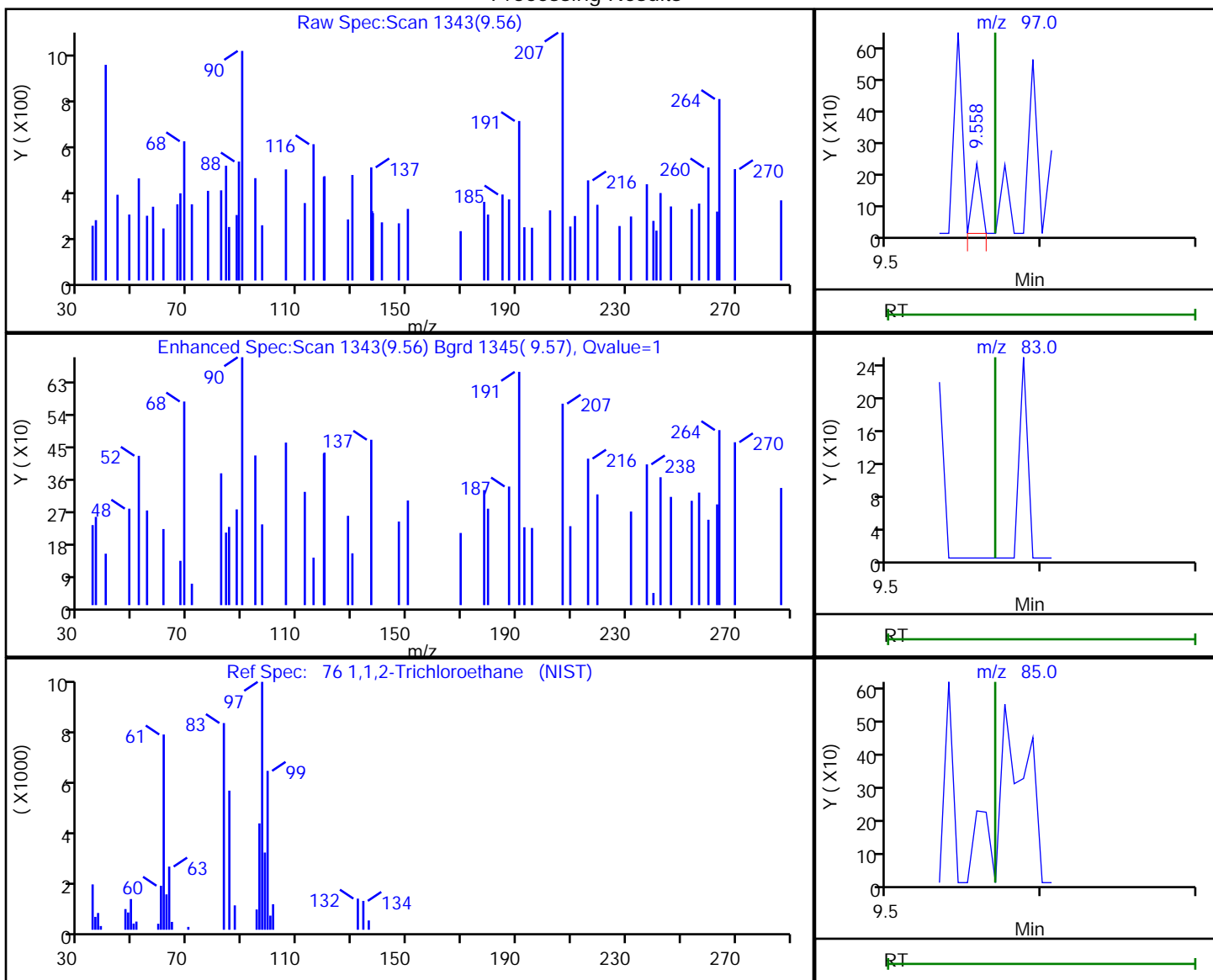
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101921.D
 Injection Date: 19-Oct-2019 22:14:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-5 Lab Sample ID: 180-97133-5
 Client ID: HD-MW-79-0/1-0
 Operator ID: 433269 ALS Bottle#: 15 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

76 1,1,2-Trichloroethane, CAS: 79-00-5

Processing Results



RT	Mass	Response	Amount
9.56	97.00	82	0.045770
9.57	83.00	0	
9.57	85.00	0	

Reviewer: bowieh, 22-Oct-2019 09:57:03

Audit Action: Marked Compound Undetected

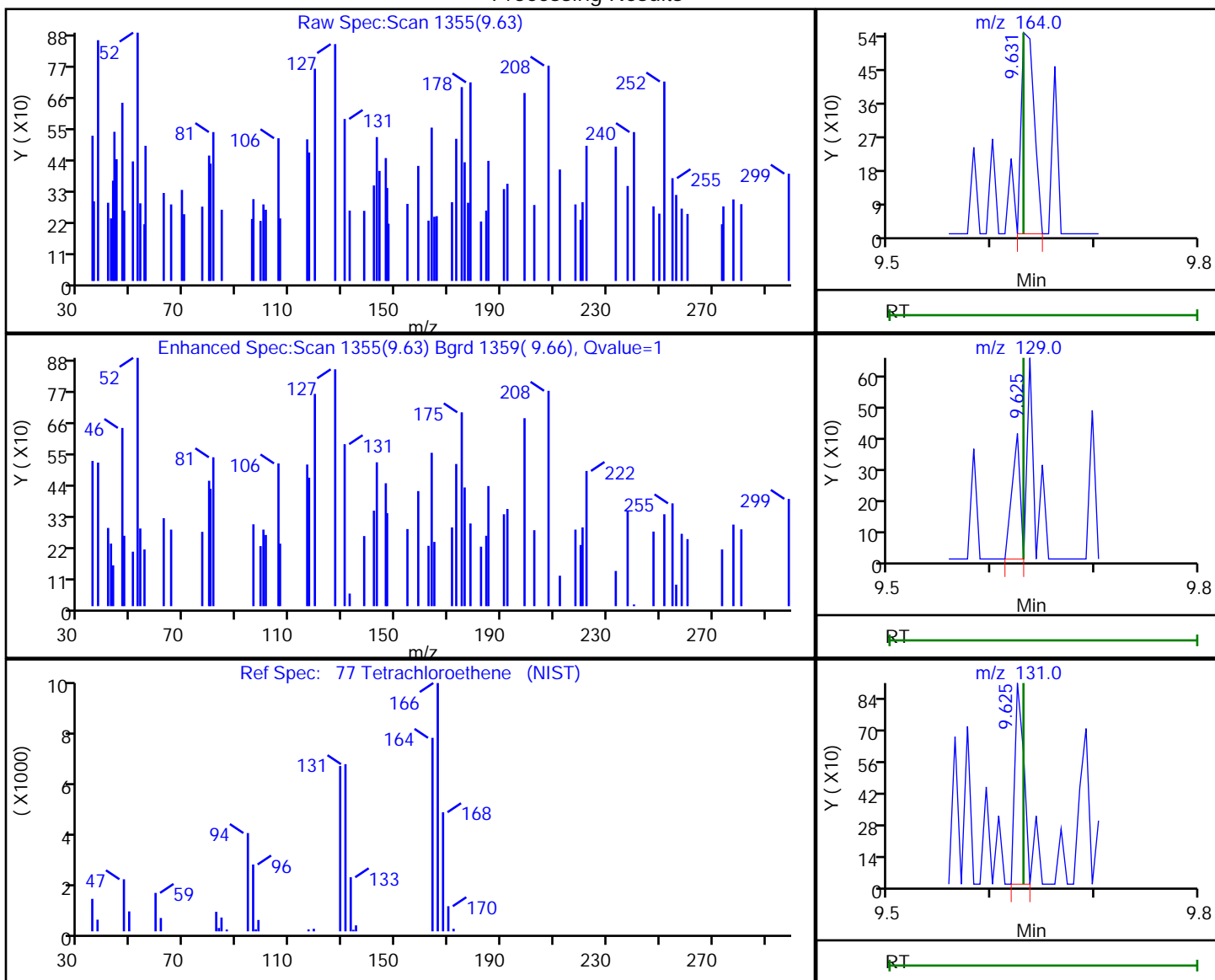
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101921.D
 Injection Date: 19-Oct-2019 22:14:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-5 Lab Sample ID: 180-97133-5
 Client ID: HD-MW-79-0/1-0
 Operator ID: 433269 ALS Bottle#: 15 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

77 Tetrachloroethene, CAS: 127-18-4

Processing Results



RT	Mass	Response	Amount
9.63	164.00	481	0.235562
9.62	129.00	225	
9.62	131.00	541	

Reviewer: bowieh, 22-Oct-2019 09:57:05

Audit Action: Marked Compound Undetected

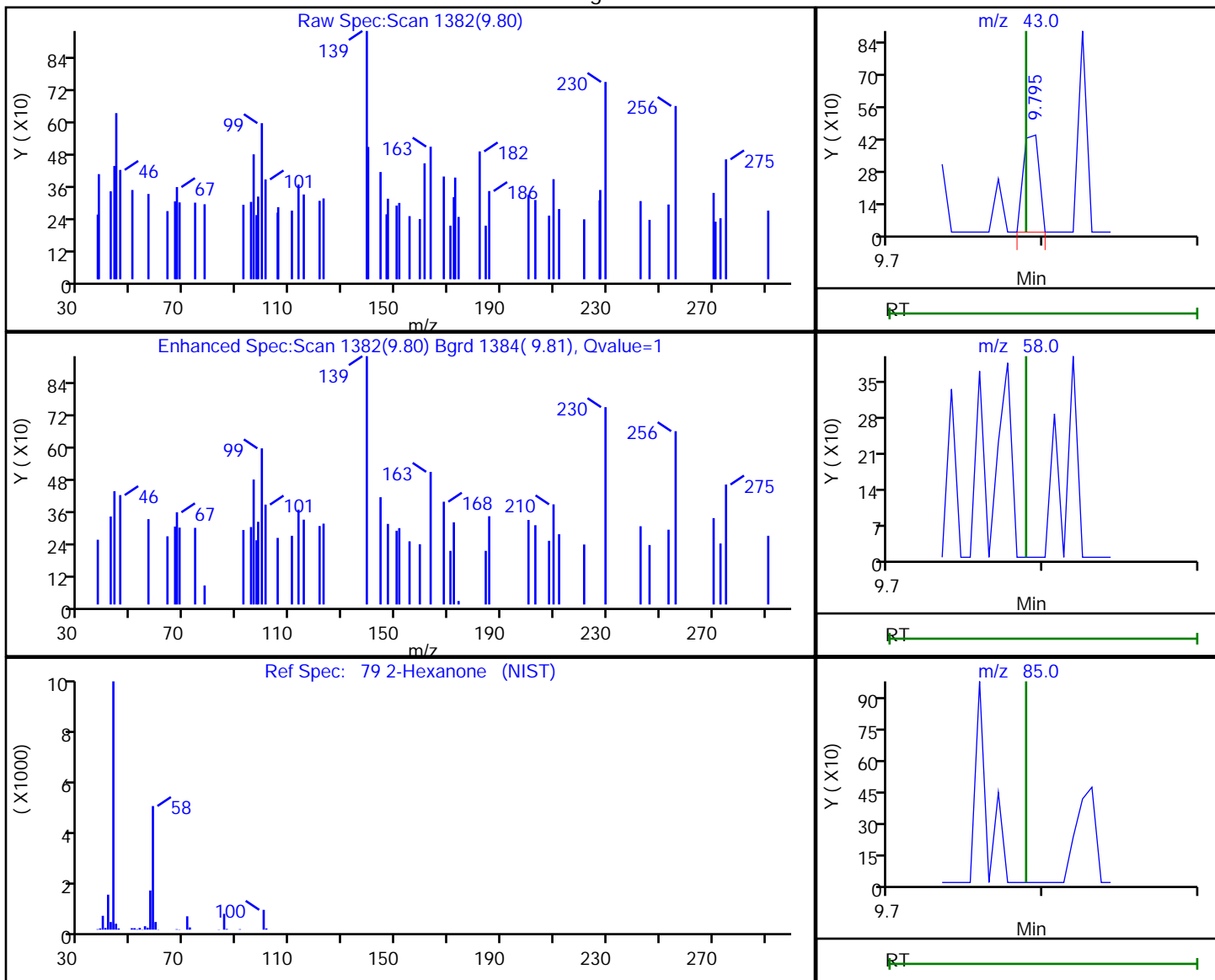
Audit Reason: Invalid Compound ID

Euofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101921.D
 Injection Date: 19-Oct-2019 22:14:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-5 Lab Sample ID: 180-97133-5
 Client ID: HD-MW-79-0/1-0
 Operator ID: 433269 ALS Bottle#: 15 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

79 2-Hexanone, CAS: 591-78-6

Processing Results



RT	Mass	Response	Amount
9.80	43.00	308	0.204919
9.79	58.00	0	
9.79	85.00	0	

Reviewer: bowieh, 22-Oct-2019 09:57:06

Audit Action: Marked Compound Undetected

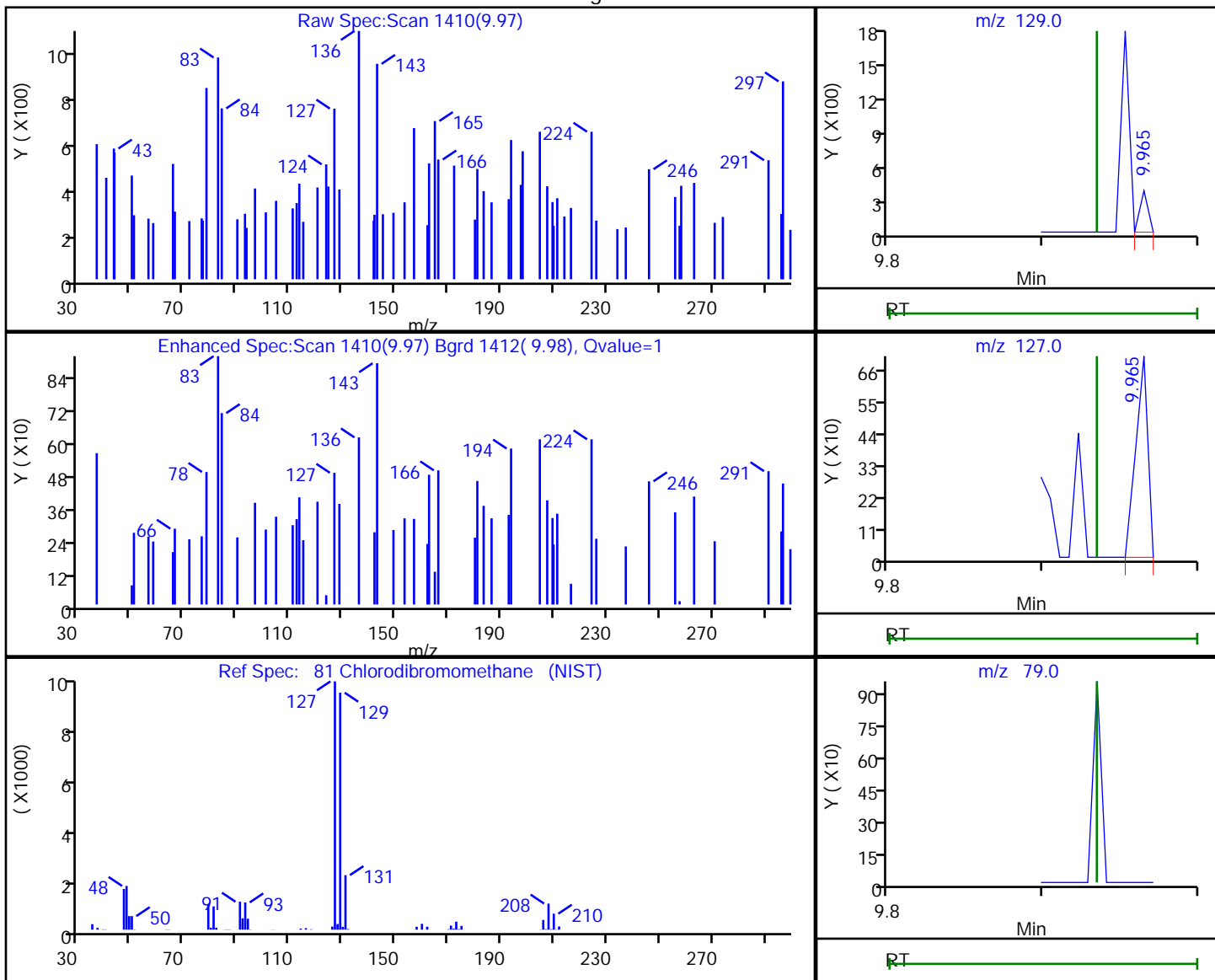
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101921.D
 Injection Date: 19-Oct-2019 22:14:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-5 Lab Sample ID: 180-97133-5
 Client ID: HD-MW-79-0/1-0
 Operator ID: 433269 ALS Bottle#: 15 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

81 Chlorodibromomethane, CAS: 124-48-1

Processing Results



RT	Mass	Response	Amount
9.97	129.00	135	0.077219
9.97	127.00	379	
9.93	79.00	0	

Reviewer: bowieh, 22-Oct-2019 09:57:07

Audit Action: Marked Compound Undetected

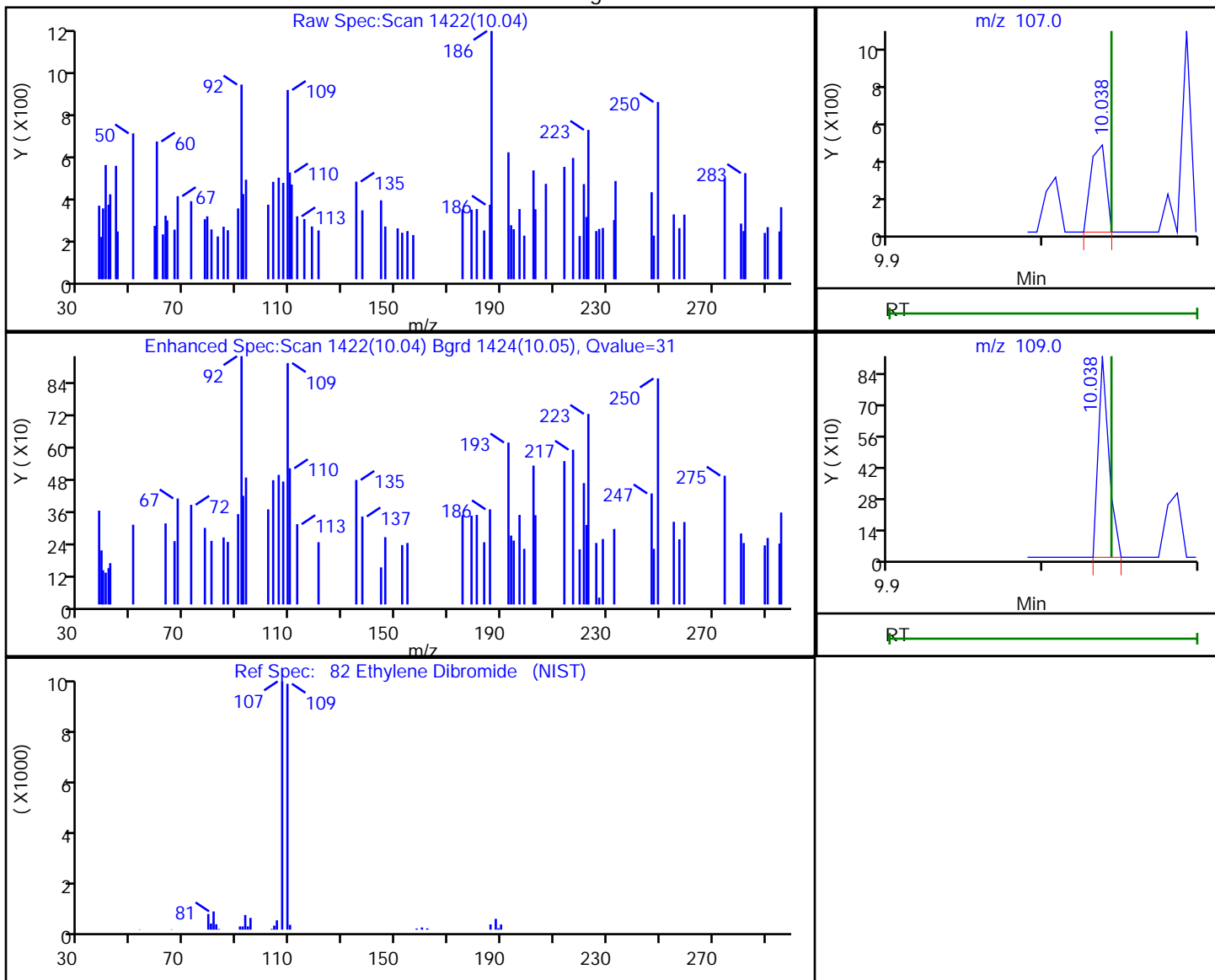
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101921.D
Injection Date: 19-Oct-2019 22:14:30 Instrument ID: CHHP6
Lims ID: 180-97133-A-5 Lab Sample ID: 180-97133-5
Client ID: HD-MW-79-0/1-0
Operator ID: 433269 ALS Bottle#: 15 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

82 Ethylene Dibromide, CAS: 106-93-4

Processing Results



RT	Mass	Response	Amount
10.04	107.00	316	0.173495
10.04	109.00	430	

Reviewer: bowieh, 22-Oct-2019 09:57:08

Audit Action: Marked Compound Undetected

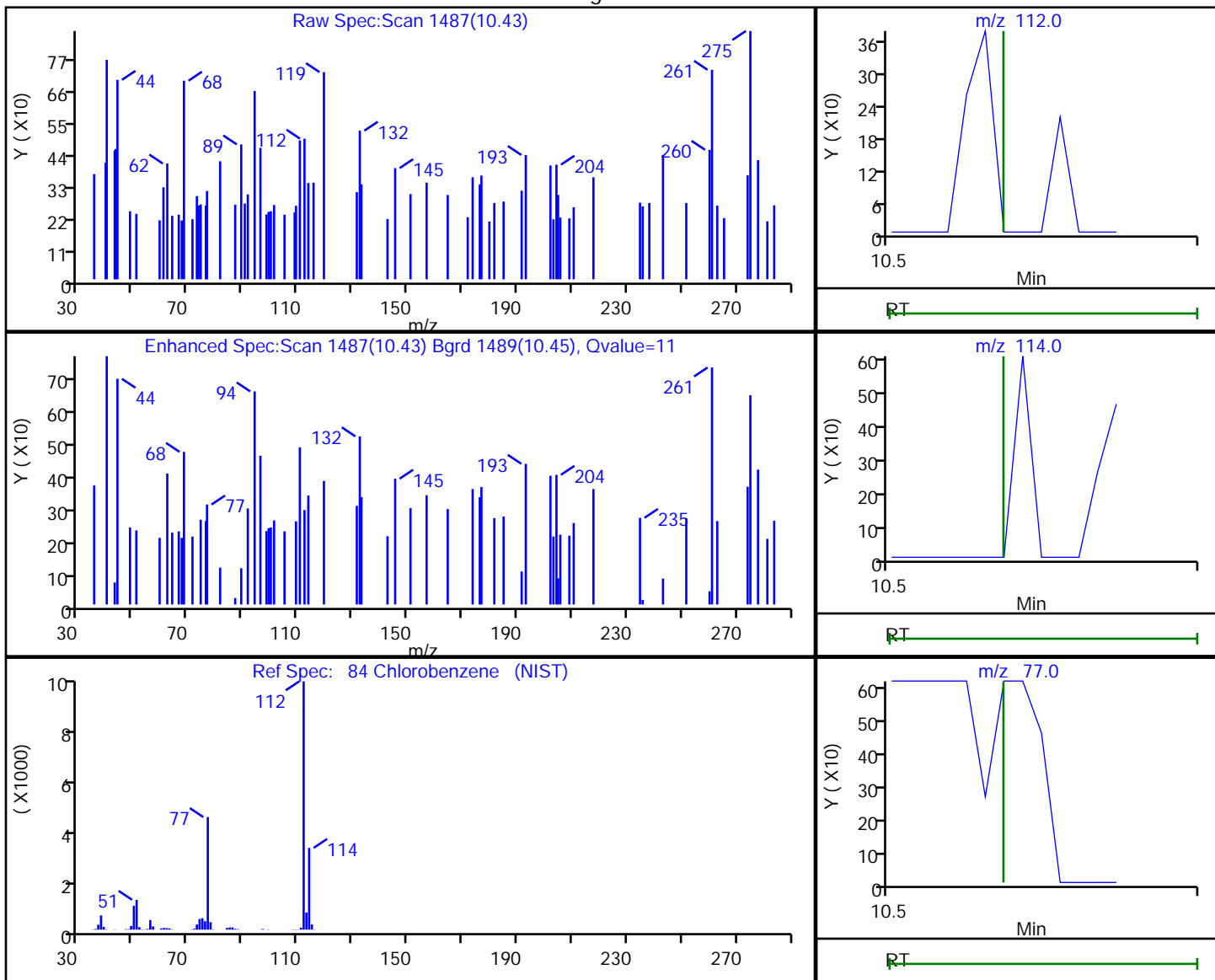
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101921.D
Injection Date: 19-Oct-2019 22:14:30 Instrument ID: CHHP6
Lims ID: 180-97133-A-5 Lab Sample ID: 180-97133-5
Client ID: HD-MW-79-0/1-0
Operator ID: 433269 ALS Bottle#: 15 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

84 Chlorobenzene, CAS: 108-90-7

Processing Results



RT	Mass	Response	Amount
10.43	112.00	180	0.027927
10.43	114.00	374	
10.43	77.00	192	

Reviewer: bowieh, 22-Oct-2019 09:57:10

Audit Action: Marked Compound Undetected

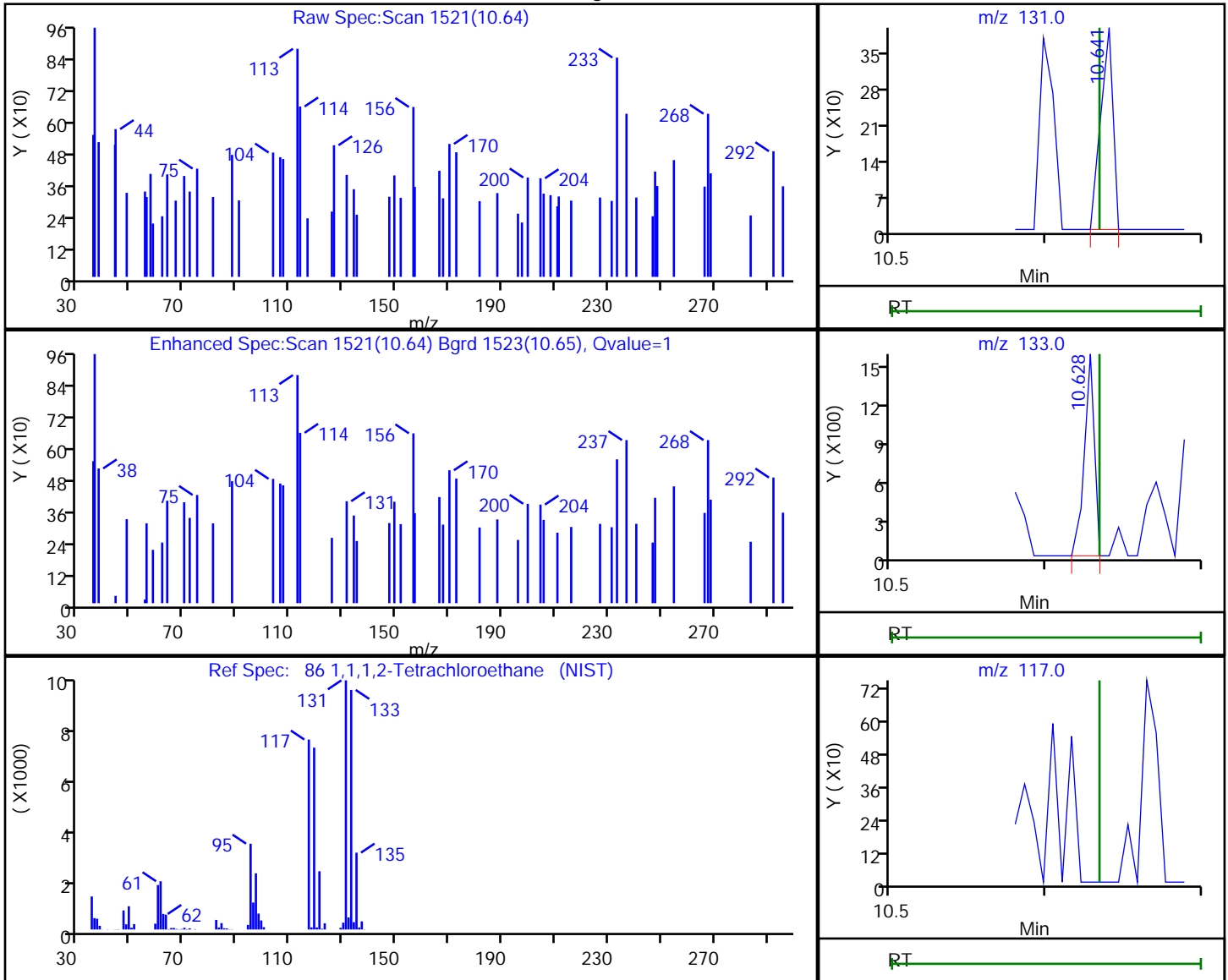
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101921.D
 Injection Date: 19-Oct-2019 22:14:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-5 Lab Sample ID: 180-97133-5
 Client ID: HD-MW-79-0/1-0
 Operator ID: 433269 ALS Bottle#: 15 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

86 1,1,1,2-Tetrachloroethane, CAS: 630-20-6

Processing Results



RT	Mass	Response	Amount
10.64	131.00	217	0.105165
10.63	133.00	679	
10.63	117.00	0	

Reviewer: bowieh, 22-Oct-2019 09:57:12

Audit Action: Marked Compound Undetected

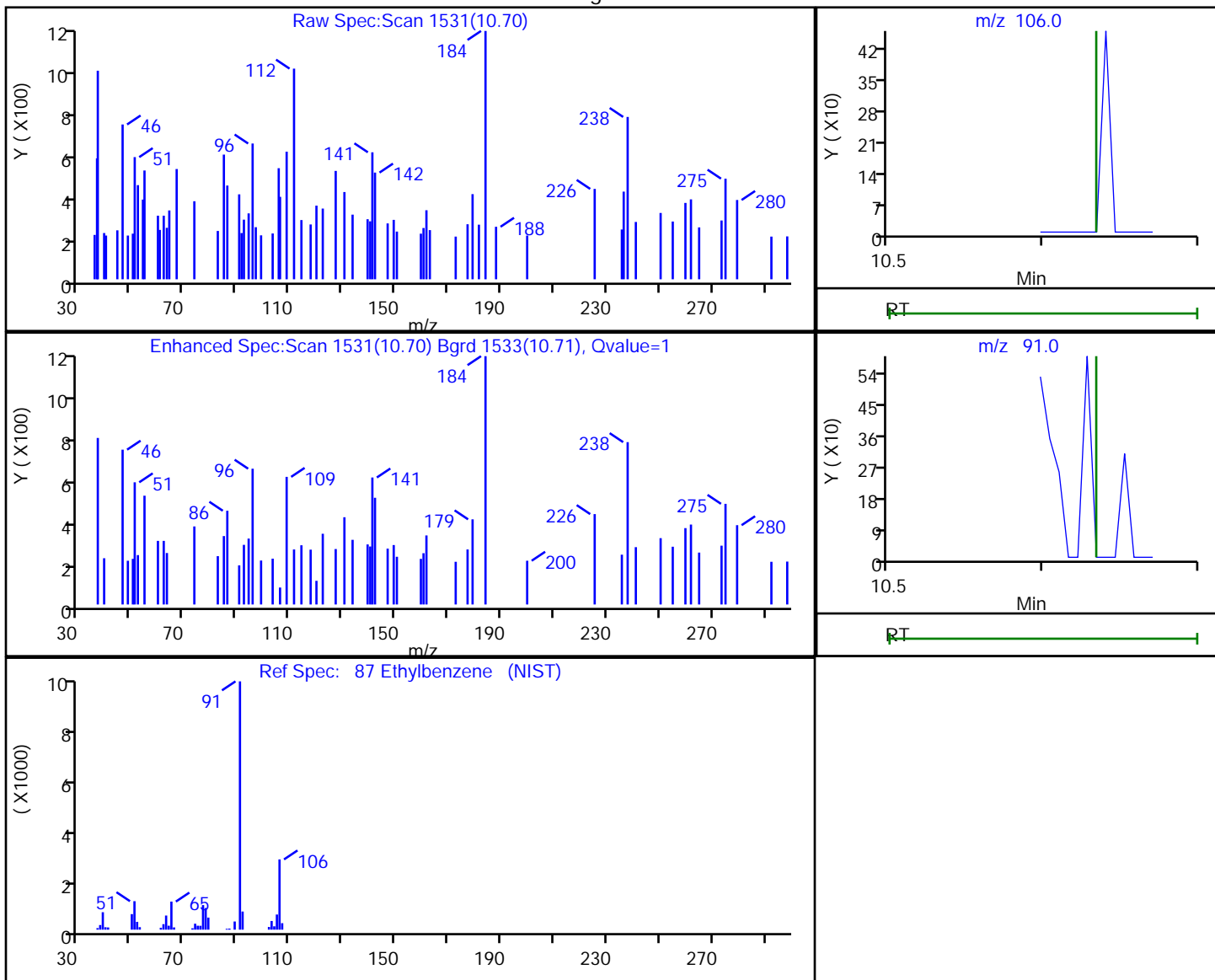
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101921.D
Injection Date: 19-Oct-2019 22:14:30 Instrument ID: CHHP6
Lims ID: 180-97133-A-5 Lab Sample ID: 180-97133-5
Client ID: HD-MW-79-0/1-0
Operator ID: 433269 ALS Bottle#: 15 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

87 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
10.70	106.00	338	0.089472
10.70	91.00	229	

Reviewer: bowieh, 22-Oct-2019 09:57:11

Audit Action: Marked Compound Undetected

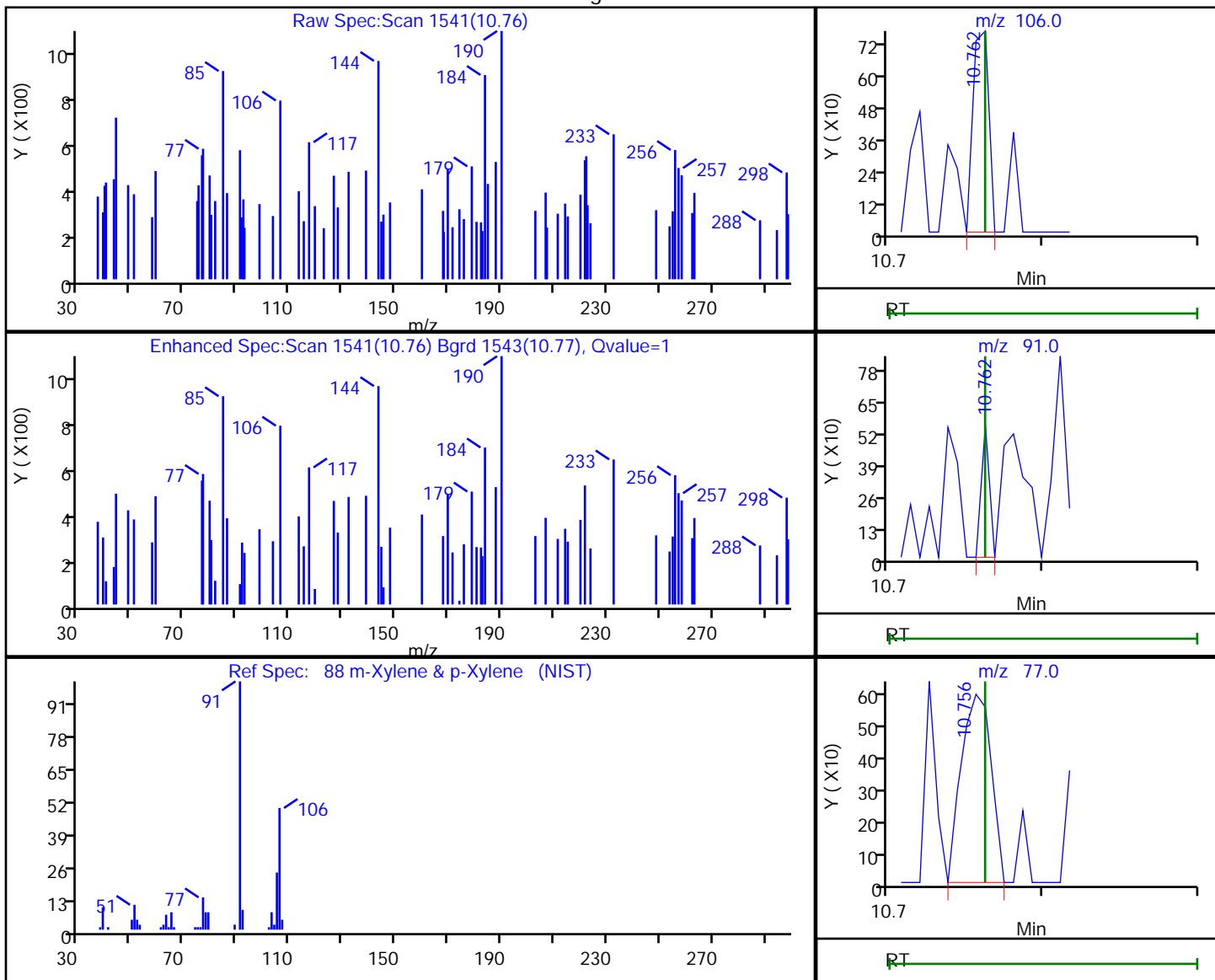
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101921.D
 Injection Date: 19-Oct-2019 22:14:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-5 Lab Sample ID: 180-97133-5
 Client ID: HD-MW-79-0/1-0
 Operator ID: 433269 ALS Bottle#: 15 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

88 m-Xylene & p-Xylene, CAS: 179601-23-1

Processing Results



RT	Mass	Response	Amount
10.76	106.00	544	0.117919
10.76	91.00	201	
10.76	77.00	808	

Reviewer: bowieh, 22-Oct-2019 09:57:13

Audit Action: Marked Compound Undetected

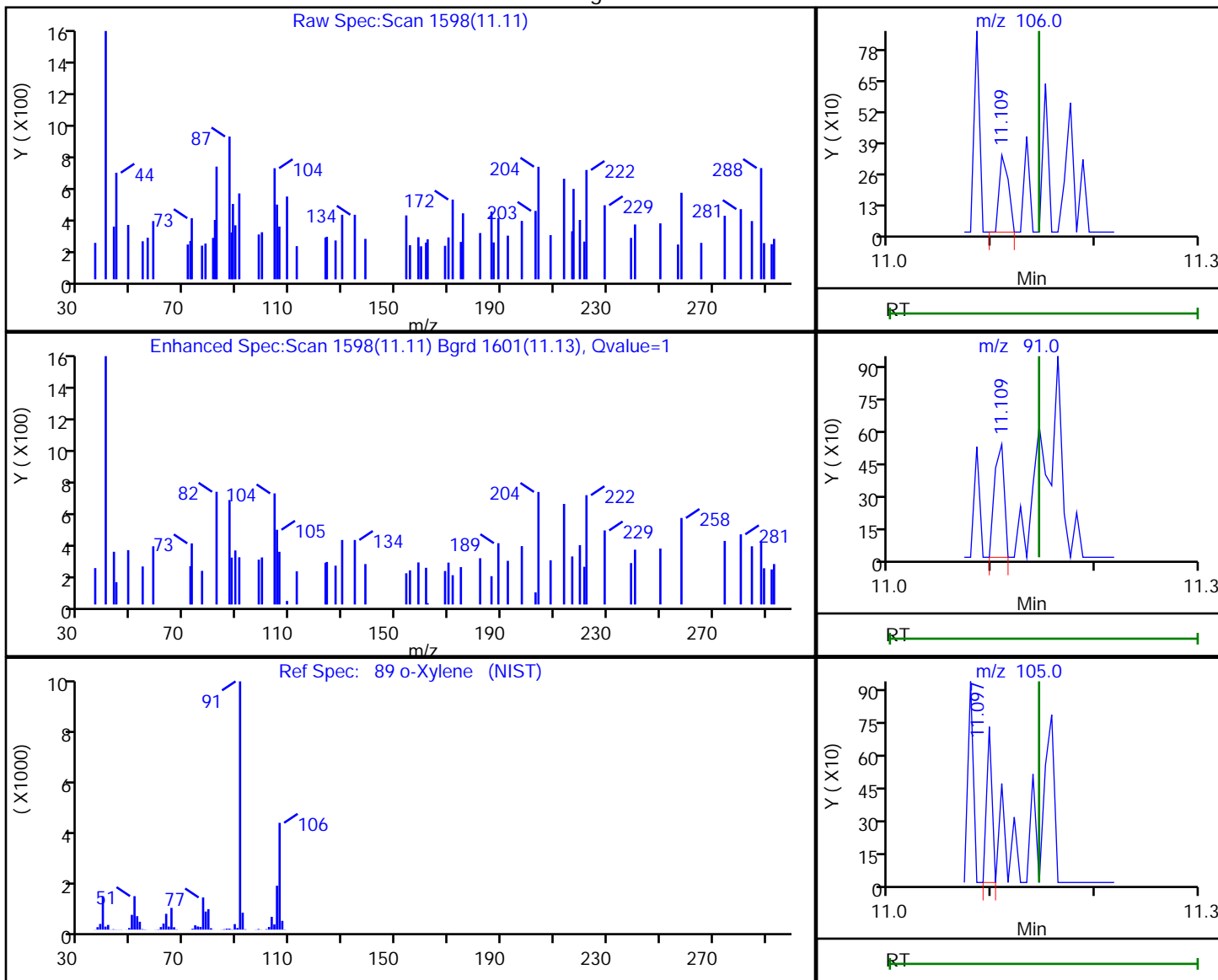
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101921.D
Injection Date: 19-Oct-2019 22:14:30 Instrument ID: CHHP6
Lims ID: 180-97133-A-5 Lab Sample ID: 180-97133-5
Client ID: HD-MW-79-0/1-0
Operator ID: 433269 ALS Bottle#: 15 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

89 o-Xylene, CAS: 95-47-6

Processing Results



RT	Mass	Response	Amount
11.11	106.00	201	0.045291
11.11	91.00	347	
11.10	105.00	265	

Reviewer: bowieh, 22-Oct-2019 09:57:15

Audit Action: Marked Compound Undetected

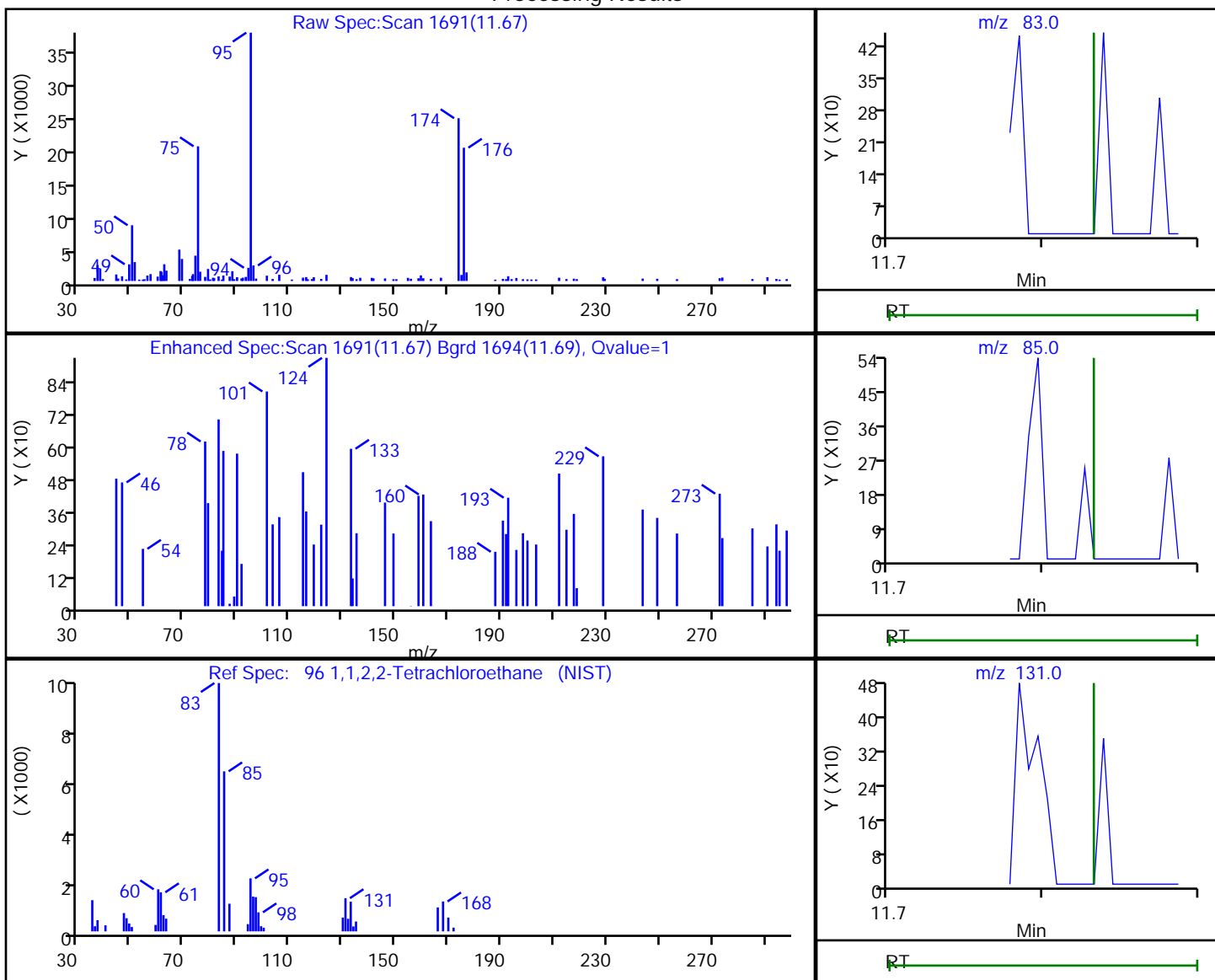
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101921.D
 Injection Date: 19-Oct-2019 22:14:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-5 Lab Sample ID: 180-97133-5
 Client ID: HD-MW-79-0/1-0
 Operator ID: 433269 ALS Bottle#: 15 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

96 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Processing Results



RT	Mass	Response	Amount
11.67	83.00	363	0.190922
11.67	85.00	755	
11.83	131.00	0	

Reviewer: bowieh, 22-Oct-2019 09:57:19

Audit Action: Marked Compound Undetected

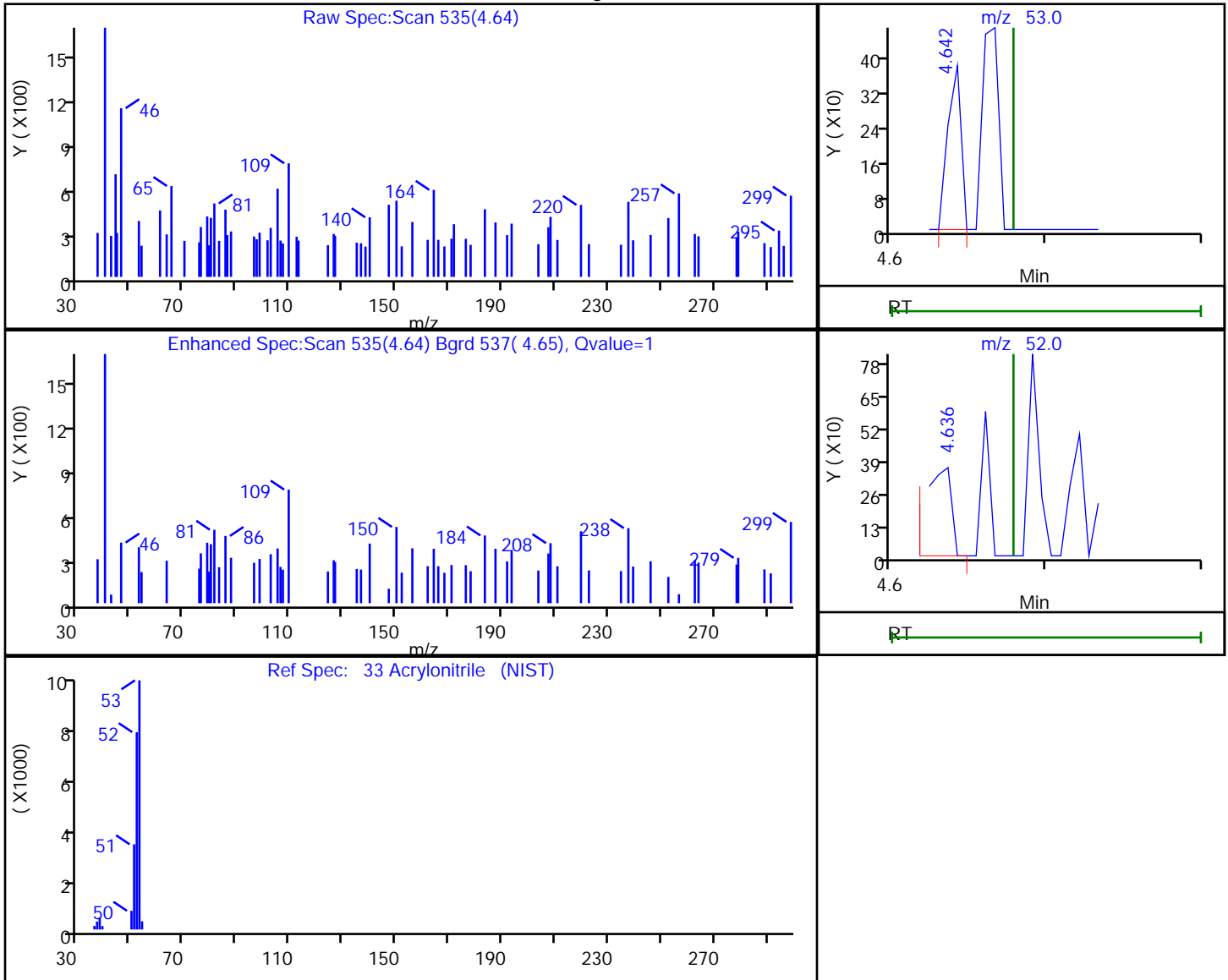
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101921.D
 Injection Date: 19-Oct-2019 22:14:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-5 Lab Sample ID: 180-97133-5
 Client ID: HD-MW-79-0/1-0
 Operator ID: 433269 ALS Bottle#: 15 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

33 Acrylonitrile, CAS: 107-13-1

Processing Results



RT	Mass	Response	Amount
4.64	53.00	227	0.280588
4.64	52.00	351	

Reviewer: bowieh, 22-Oct-2019 09:56:32

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1
 SDG No.: _____
 Client Sample ID: HD-MW-115-0/1-0 Lab Sample ID: 180-97133-6
 Matrix: Water Lab File ID: 6102317.D
 Analysis Method: EPA 8260C Date Collected: 10/10/2019 11:45
 Sample wt/vol: 5 (mL) Date Analyzed: 10/23/2019 17:01
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 295765 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	ND	^c	1.0	0.90
75-01-4	Vinyl chloride	99	E	1.0	0.88
74-83-9	Bromomethane	ND		1.0	0.89
75-00-3	Chloroethane	ND	^c	1.0	0.90
75-35-4	1,1-Dichloroethene	3.1		1.0	0.55
67-64-1	Acetone	4.2	J	5.0	3.4
75-15-0	Carbon disulfide	ND		1.0	0.88
75-09-2	Methylene Chloride	ND		1.0	0.89
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.67
1634-04-4	Methyl tert-butyl ether	28		1.0	0.59
75-34-3	1,1-Dichloroethane	20		1.0	0.63
156-59-2	cis-1,2-Dichloroethene	160	E	1.0	0.71
74-97-5	Bromochloromethane	ND		1.0	0.63
78-93-3	2-Butanone (MEK)	ND		5.0	2.6
67-66-3	Chloroform	ND		1.0	0.60
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.60
56-23-5	Carbon tetrachloride	ND		1.0	0.88
71-43-2	Benzene	9.3		1.0	0.60
107-06-2	1,2-Dichloroethane	1.5		1.0	0.57
79-01-6	Trichloroethene	ND		1.0	0.69
78-87-5	1,2-Dichloropropane	ND		1.0	0.66
75-27-4	Bromodichloromethane	ND		1.0	0.64
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.59
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	^c	5.0	3.1
108-88-3	Toluene	ND		1.0	0.46
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.58
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.45
127-18-4	Tetrachloroethene	ND		1.0	0.47
591-78-6	2-Hexanone	ND	^c	5.0	3.3
124-48-1	Dibromochloromethane	ND		1.0	0.84
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.50
108-90-7	Chlorobenzene	ND		1.0	0.50
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.57
100-41-4	Ethylbenzene	ND		1.0	0.51
1330-20-7	Xylenes, Total	ND		2.0	0.89
100-42-5	Styrene	ND		1.0	0.47

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1
 SDG No.: _____
 Client Sample ID: HD-MW-115-0/1-0 Lab Sample ID: 180-97133-6
 Matrix: Water Lab File ID: 6102317.D
 Analysis Method: EPA 8260C Date Collected: 10/10/2019 11:45
 Sample wt/vol: 5 (mL) Date Analyzed: 10/23/2019 17:01
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 295765 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	ND		1.0	0.98
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.60
107-13-1	Acrylonitrile	ND	^c	20	7.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		70-150
2037-26-5	Toluene-d8 (Surr)	116		78-128
460-00-4	4-Bromofluorobenzene (Surr)	110		64-123
1868-53-7	Dibromofluoromethane (Surr)	87		75-147

Eurofins TestAmerica, Pittsburgh
Target Compound Quantitation Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\6102317.D
 Lims ID: 180-97133-A-6
 Client ID: HD-MW-115-0/1-0
 Sample Type: Client
 Inject. Date: 23-Oct-2019 17:01:30 ALS Bottle#: 11 Worklist Smp#: 17
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-0029242-017
 Misc. Info.: 180-97133-A-6
 Operator ID: 433269 Instrument ID: CHHP6
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C_D ICAL
 Last Update: 24-Oct-2019 09:38:07 Calib Date: 18-Oct-2019 18:47:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101817.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX0337

First Level Reviewer: bowieh

Date: 24-Oct-2019 09:38:07

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.423	4.435	-0.012	89	163547	1000.0	
* 2 Fluorobenzene (IS)	96	7.404	7.410	-0.006	98	484568	50.0	
* 3 Chlorobenzene-d5	119	10.507	10.512	-0.005	92	109777	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.855	12.854	0.001	98	158983	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.680	6.686	-0.006	90	99386	43.7	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	7.051	7.051	0.000	66	174632	50.2	
\$ 7 Toluene-d8 (Surr)	98	9.053	9.052	0.001	96	463878	58.1	
\$ 8 4-Bromofluorobenzene (Surr	95	11.693	11.693	0.001	0	180595	54.8	
12 Chloromethane	50		1.874				ND	U
13 Vinyl chloride	62	2.002	2.002	0.000	98	1723244	495.7	E
15 Bromomethane	94		2.342				ND	
16 Chloroethane	64	2.489	2.488	0.001	46	11165	4.15	Ma
22 1,1-Dichloroethene	96	3.480	3.468	0.012	92	35808	15.4	
24 Acetone	43	3.566	3.583	-0.017	49	28689	21.0	Ma
26 Carbon disulfide	76		3.754				ND	U
31 Methylene Chloride	84		4.295				ND	
33 Acrylonitrile	53		4.678				ND	Ua
34 trans-1,2-Dichloroethene	96		4.703				ND	U
35 Methyl tert-butyl ether	73	4.715	4.709	0.006	86	853656	141.4	
37 1,1-Dichloroethane	63	5.342	5.335	0.007	97	479310	98.2	
43 cis-1,2-Dichloroethene	96	6.078	6.077	0.001	83	2256077	776.6	E
44 2-Butanone (MEK)	43		6.090				ND	
48 Chlorobromomethane	128		6.363				ND	
50 Chloroform	83		6.503				ND	U
51 1,1,1-Trichloroethane	97		6.661				ND	U
53 Carbon tetrachloride	117		6.826				ND	
56 Benzene	78	7.064	7.063	0.001	96	466869	46.3	
57 1,2-Dichloroethane	62	7.137	7.136	0.001	95	35372	7.75	
61 Trichloroethene	130	7.788	7.793	-0.005	86	7127	2.29	
64 1,2-Dichloropropane	63		8.067				ND	U
68 Dichlorobromomethane	83		8.347				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
71 cis-1,3-Dichloropropene	75		8.791				ND	U
72 4-Methyl-2-pentanone (MIBK)	43		8.949				ND	U
73 Toluene	91	9.126	9.119	0.007	48	7150	0.7240	
74 trans-1,3-Dichloropropene	75		9.369				ND	U
76 1,1,2-Trichloroethane	97		9.563				ND	U
77 Tetrachloroethene	164	9.631	9.636	-0.005	9	1538	0.7405	
79 2-Hexanone	43		9.782				ND	U
81 Chlorodibromomethane	129		9.934				ND	
82 Ethylene Dibromide	107		10.044				ND	U
84 Chlorobenzene	112		10.537				ND	
86 1,1,1,2-Tetrachloroethane	131		10.634				ND	
87 Ethylbenzene	106	10.635	10.634	0.001	1	1166	0.3035	
88 m-Xylene & p-Xylene	106	10.775	10.768	0.007	39	2331	0.4968	
89 o-Xylene	106		11.151				ND	U
90 Styrene	104		11.169				ND	
91 Bromoform	173		11.352				ND	
96 1,1,2,2-Tetrachloroethane	83		11.832				ND	U
S 131 Xylenes, Total	106				0		0.4968	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

voaWI/SHP5_00014

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\6102317.D

Injection Date: 23-Oct-2019 17:01:30

Instrument ID: CHHP6

Operator ID: 433269

Lims ID: 180-97133-A-6

Lab Sample ID: 180-97133-6

Worklist Smp#: 17

Client ID: HD-MW-115-0/1-0

Purge Vol: 5.000 mL

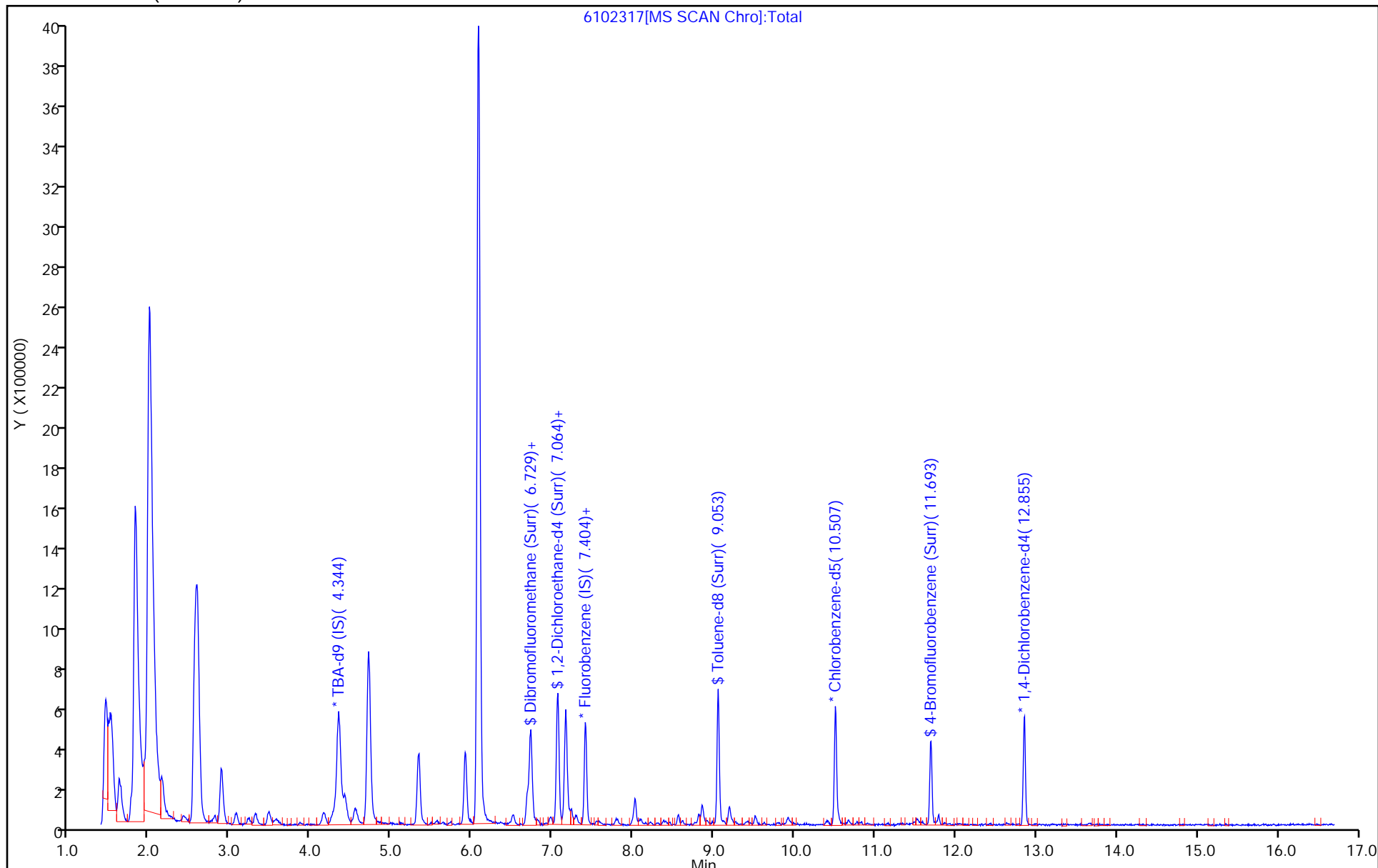
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C_D ICAL

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Pittsburgh
Recovery Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\6102317.D
 Lims ID: 180-97133-A-6
 Client ID: HD-MW-115-0/1-0
 Sample Type: Client
 Inject. Date: 23-Oct-2019 17:01:30 ALS Bottle#: 11 Worklist Smp#: 17
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-0029242-017
 Misc. Info.: 180-97133-A-6
 Operator ID: 433269 Instrument ID: CHHP6
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C_D ICAL
 Last Update: 24-Oct-2019 09:38:07 Calib Date: 18-Oct-2019 18:47:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101817.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX0337

First Level Reviewer: bowieh Date: 24-Oct-2019 09:38:07

Compound	Amount Added	Amount Recovered	% Rec.
\$ 5 Dibromofluoromethane (Surr)	50.0	43.7	87.31
\$ 6 1,2-Dichloroethane-d4 (Surr)	50.0	50.2	100.38
\$ 7 Toluene-d8 (Surr)	50.0	58.1	116.19
\$ 8 4-Bromofluorobenzene (Surr)	50.0	54.8	109.56

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\6102317.D

Injection Date: 23-Oct-2019 17:01:30

Instrument ID: CHHP6

Lims ID: 180-97133-A-6

Lab Sample ID: 180-97133-6

Client ID: HD-MW-115-0/1-0

Operator ID: 433269

ALS Bottle#: 11 Worklist Smp#: 17

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

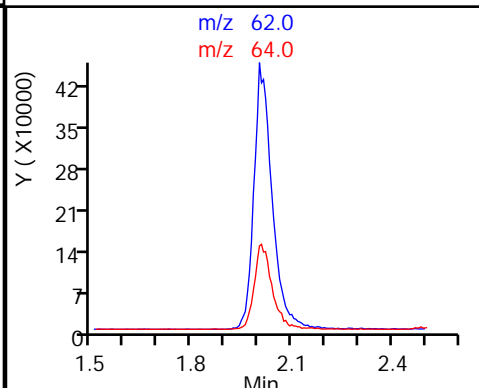
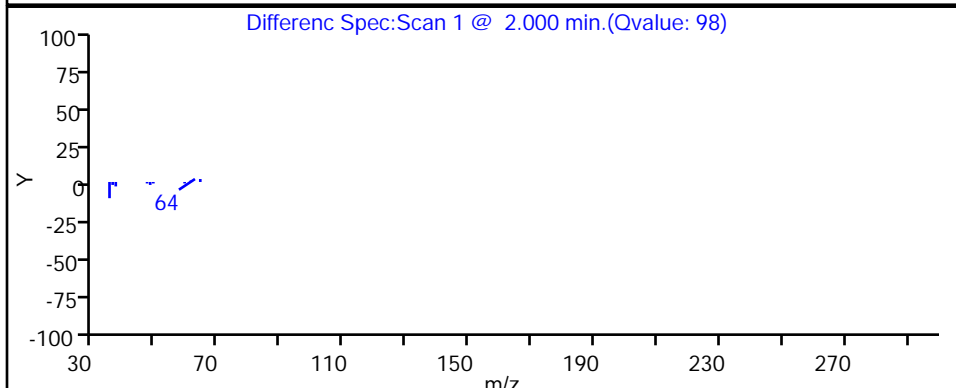
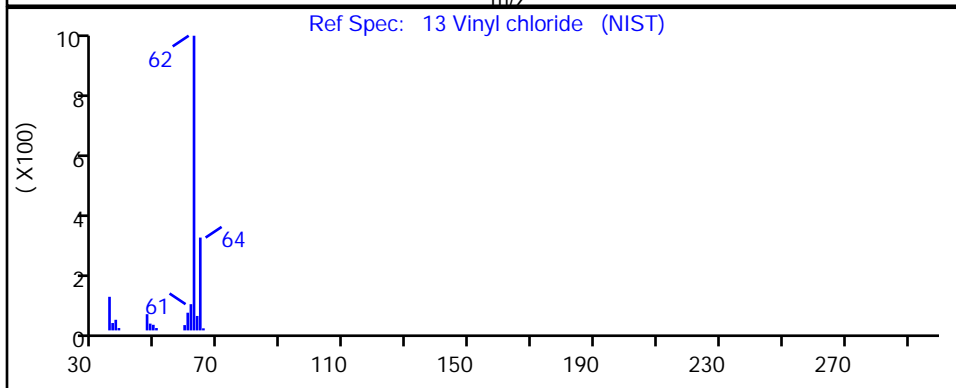
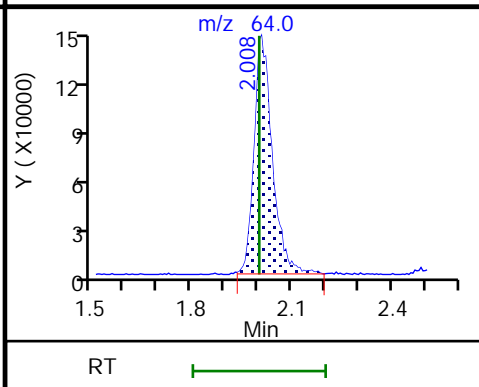
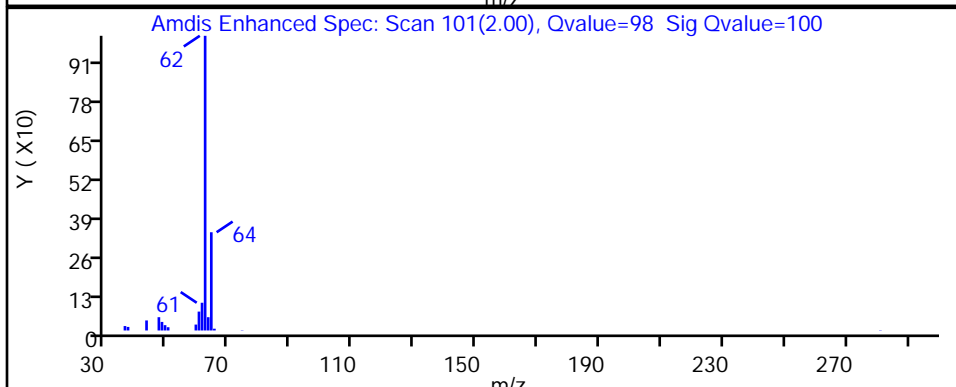
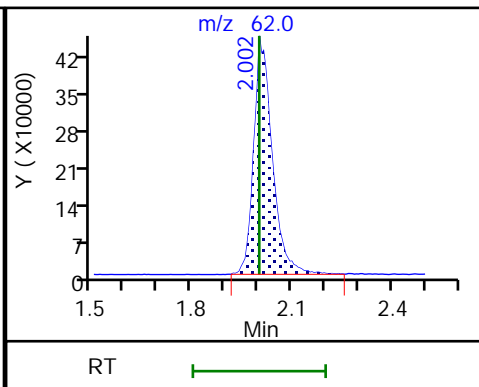
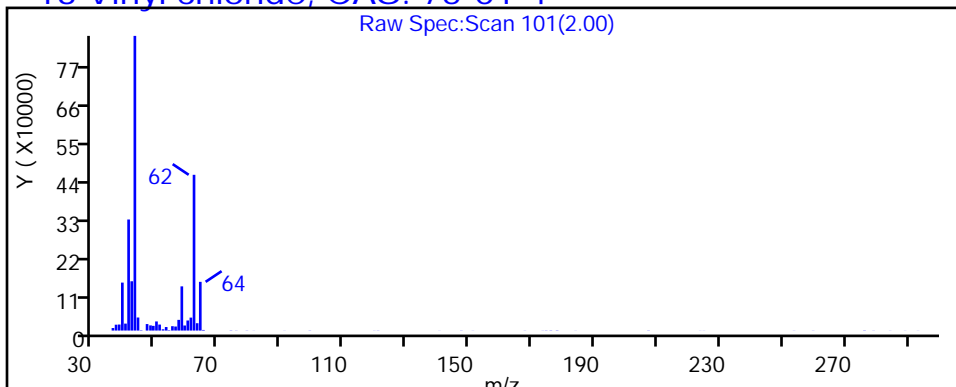
Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C_D ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

13 Vinyl chloride, CAS: 75-01-4



Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\6102317.D

Injection Date: 23-Oct-2019 17:01:30

Instrument ID: CHHP6

Lims ID: 180-97133-A-6

Lab Sample ID: 180-97133-6

Client ID: HD-MW-115-0/1-0

Operator ID: 433269

ALS Bottle#: 11 Worklist Smp#: 17

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

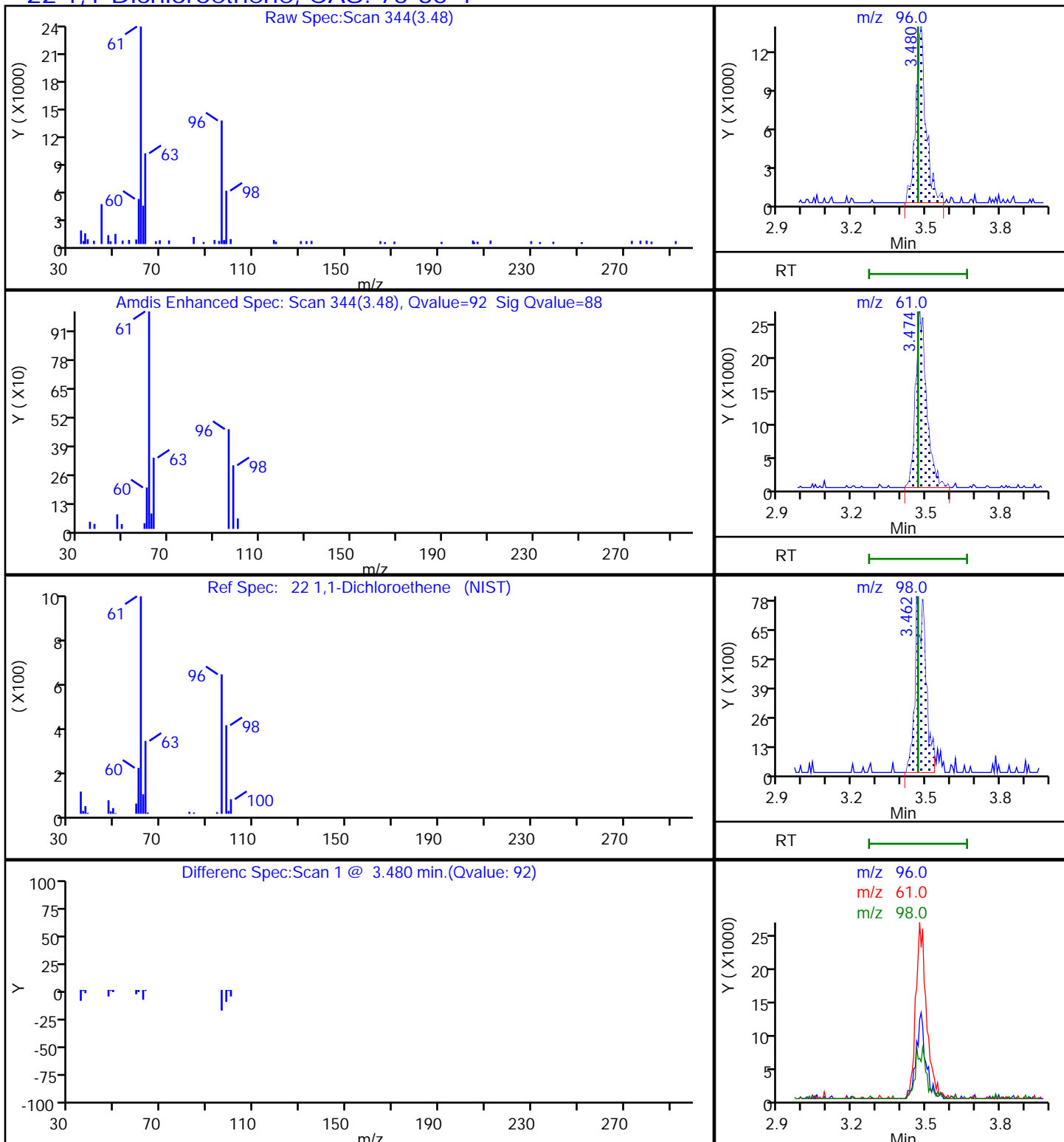
Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C_D ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

22 1,1-Dichloroethene, CAS: 75-35-4



Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\6102317.D

Injection Date: 23-Oct-2019 17:01:30

Instrument ID: CHHP6

Lims ID: 180-97133-A-6

Lab Sample ID: 180-97133-6

Client ID: HD-MW-115-0/1-0

Operator ID: 433269

ALS Bottle#: 11 Worklist Smp#: 17

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

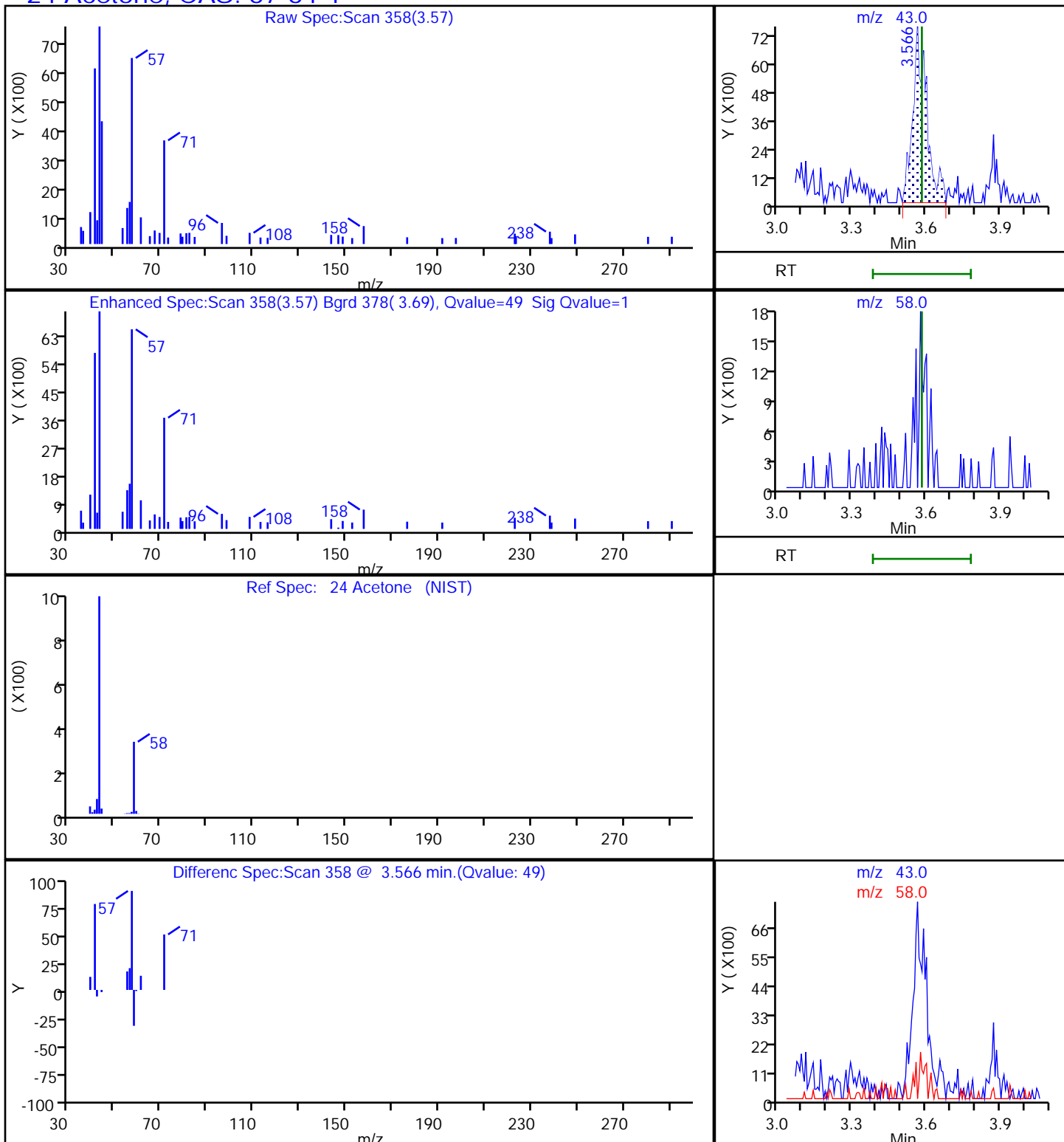
Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C_D ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

24 Acetone, CAS: 67-64-1



Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\6102317.D

Injection Date: 23-Oct-2019 17:01:30

Instrument ID: CHHP6

Lims ID: 180-97133-A-6

Lab Sample ID: 180-97133-6

Client ID: HD-MW-115-0/1-0

Operator ID: 433269

ALS Bottle#: 11 Worklist Smp#: 17

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

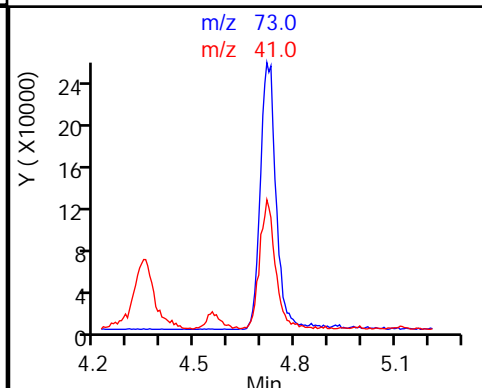
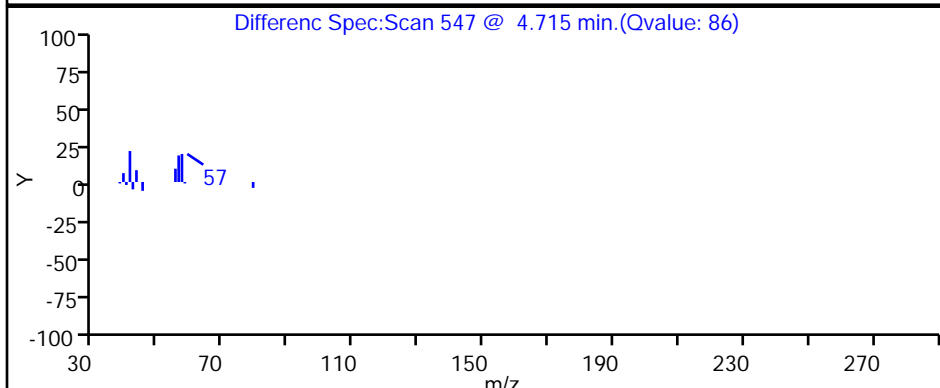
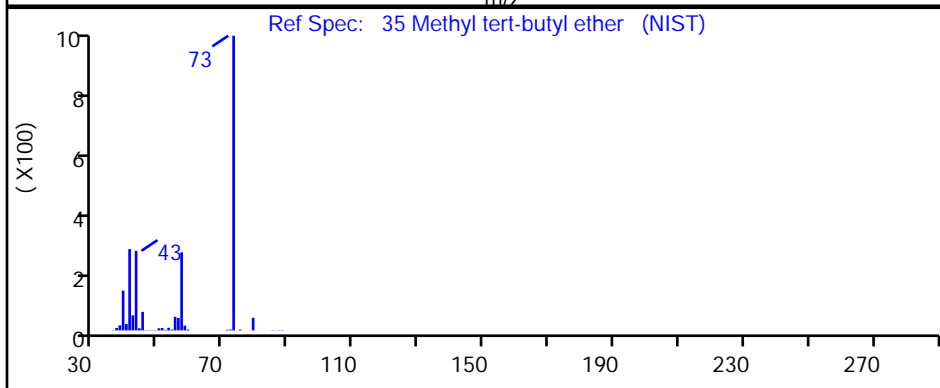
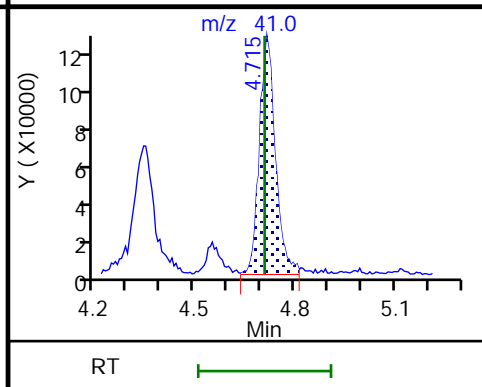
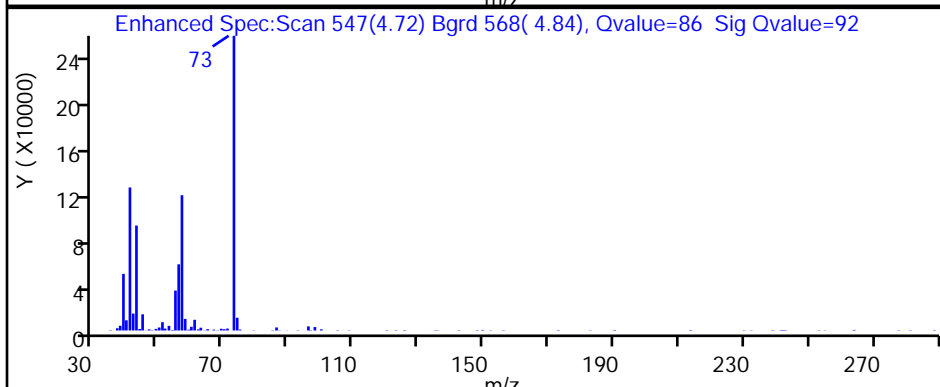
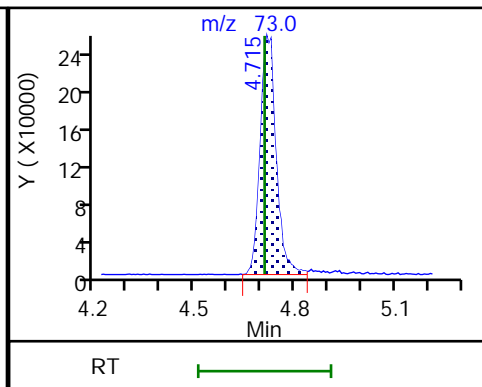
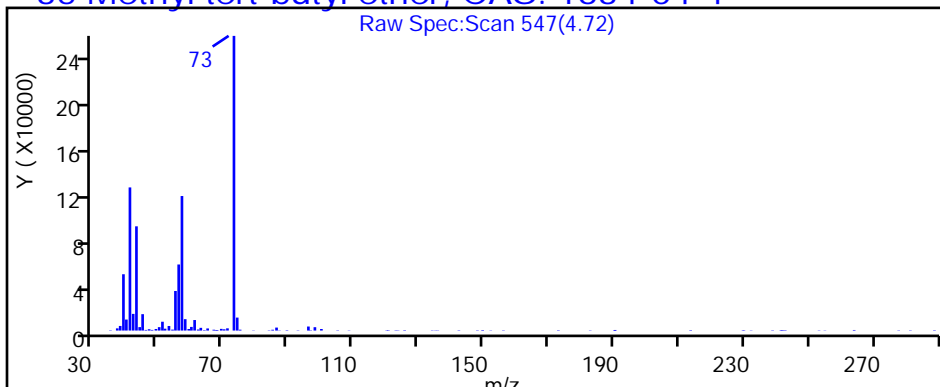
Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C_D ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

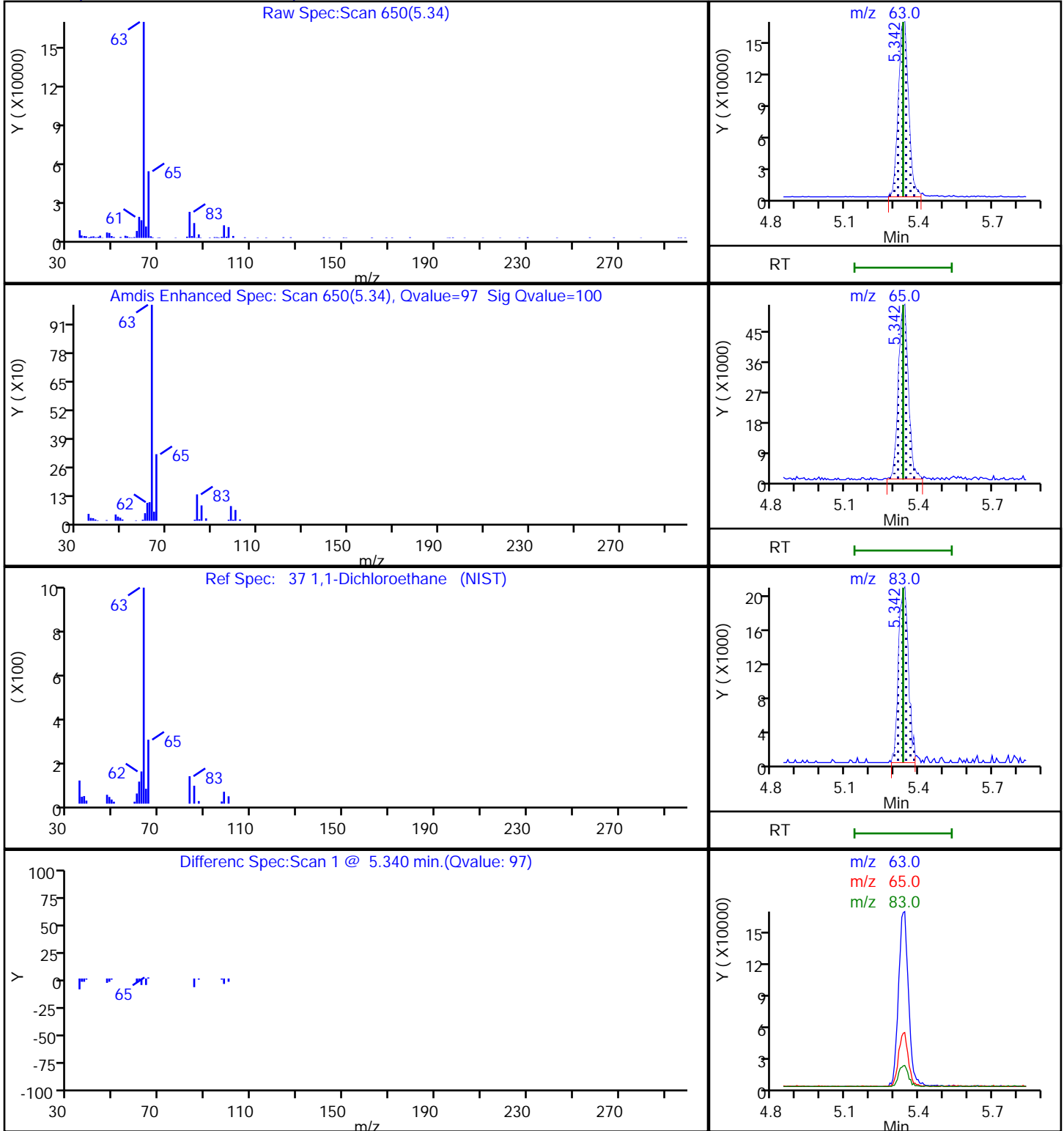
35 Methyl tert-butyl ether, CAS: 1634-04-4



Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\6102317.D
Injection Date: 23-Oct-2019 17:01:30 Instrument ID: CHHP6
Lims ID: 180-97133-A-6 Lab Sample ID: 180-97133-6
Client ID: HD-MW-115-0/1-0
Operator ID: 433269 ALS Bottle#: 11 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

37 1,1-Dichloroethane, CAS: 75-34-3



Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\6102317.D

Injection Date: 23-Oct-2019 17:01:30

Instrument ID: CHHP6

Lims ID: 180-97133-A-6

Lab Sample ID: 180-97133-6

Client ID: HD-MW-115-0/1-0

Operator ID: 433269

ALS Bottle#: 11 Worklist Smp#: 17

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

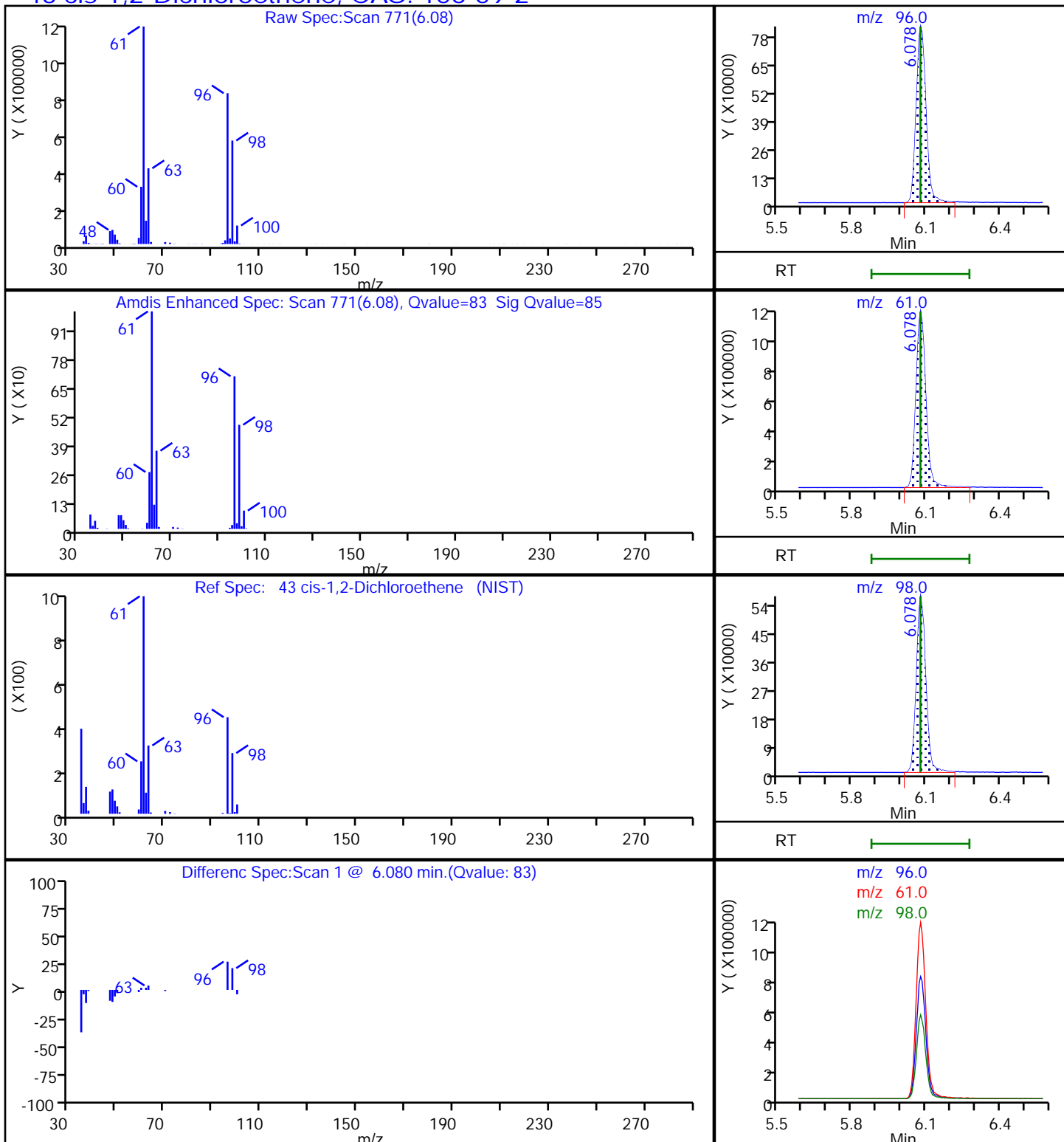
Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C_D ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

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



Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\6102317.D

Injection Date: 23-Oct-2019 17:01:30

Instrument ID: CHHP6

Lims ID: 180-97133-A-6

Lab Sample ID: 180-97133-6

Client ID: HD-MW-115-0/1-0

Operator ID: 433269

ALS Bottle#: 11 Worklist Smp#: 17

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

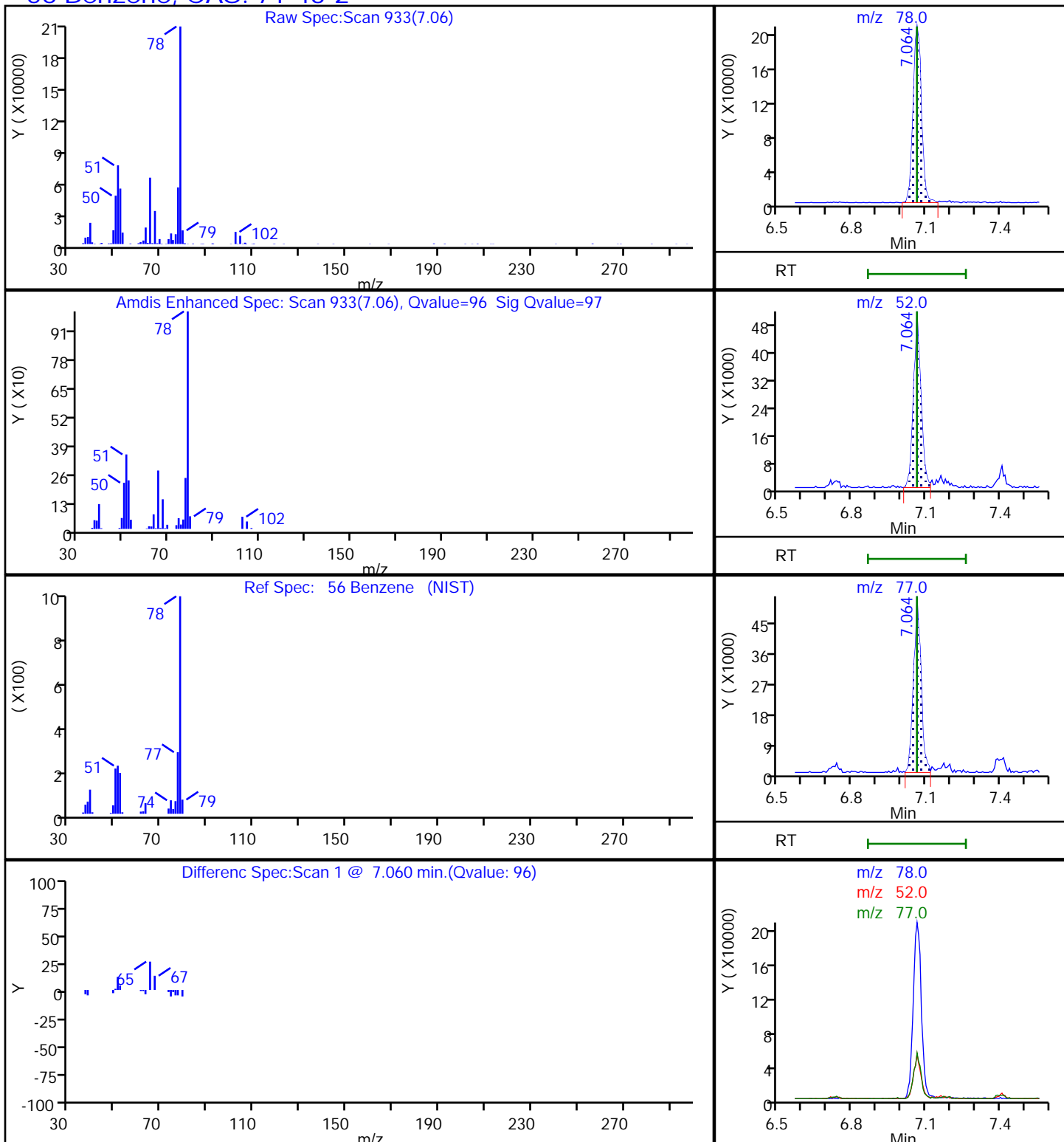
Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C_D ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

56 Benzene, CAS: 71-43-2



Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\6102317.D

Injection Date: 23-Oct-2019 17:01:30

Instrument ID: CHHP6

Lims ID: 180-97133-A-6

Lab Sample ID: 180-97133-6

Client ID: HD-MW-115-0/1-0

Operator ID: 433269

ALS Bottle#: 11 Worklist Smp#: 17

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

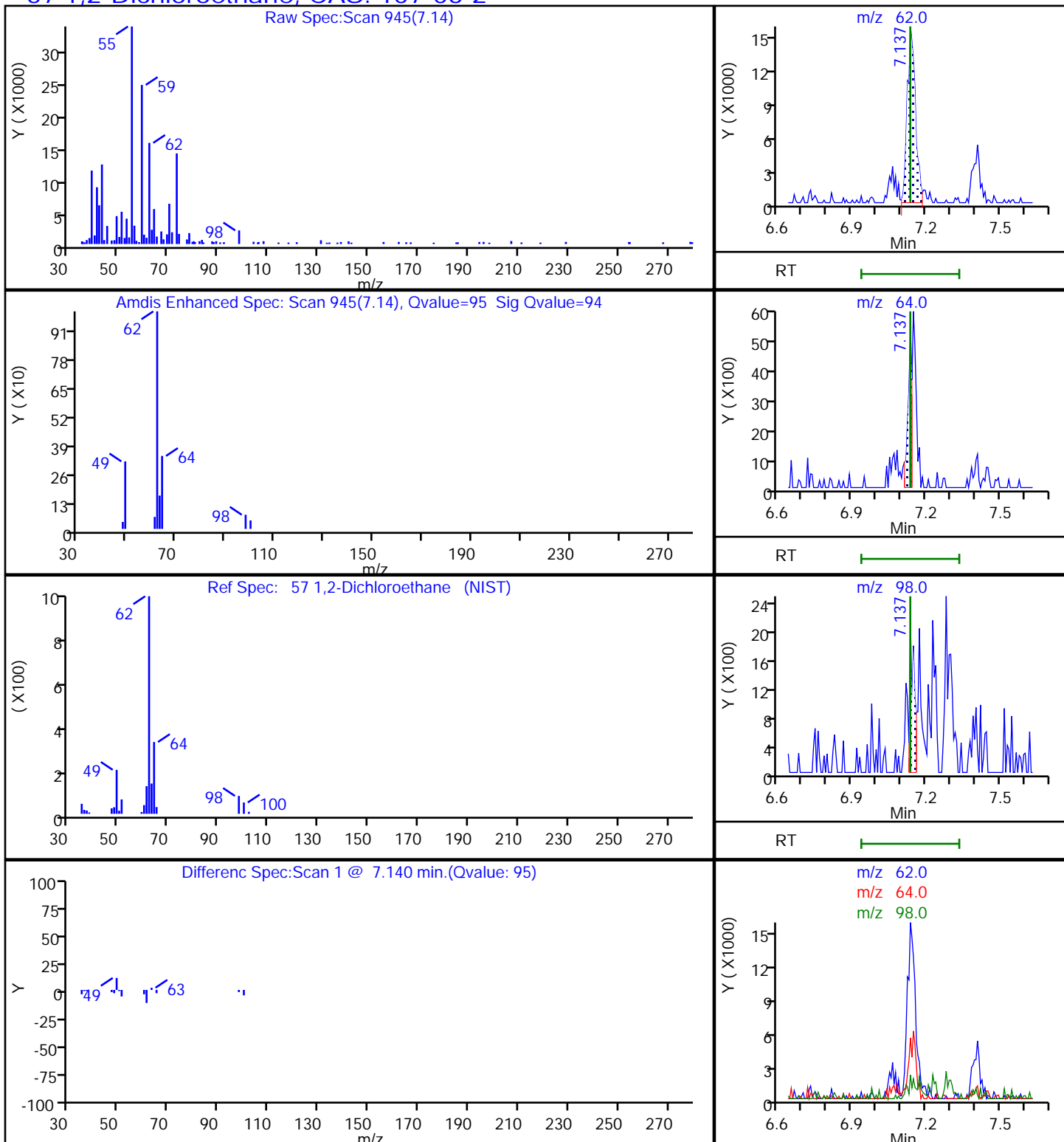
Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C_D ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

57 1,2-Dichloroethane, CAS: 107-06-2

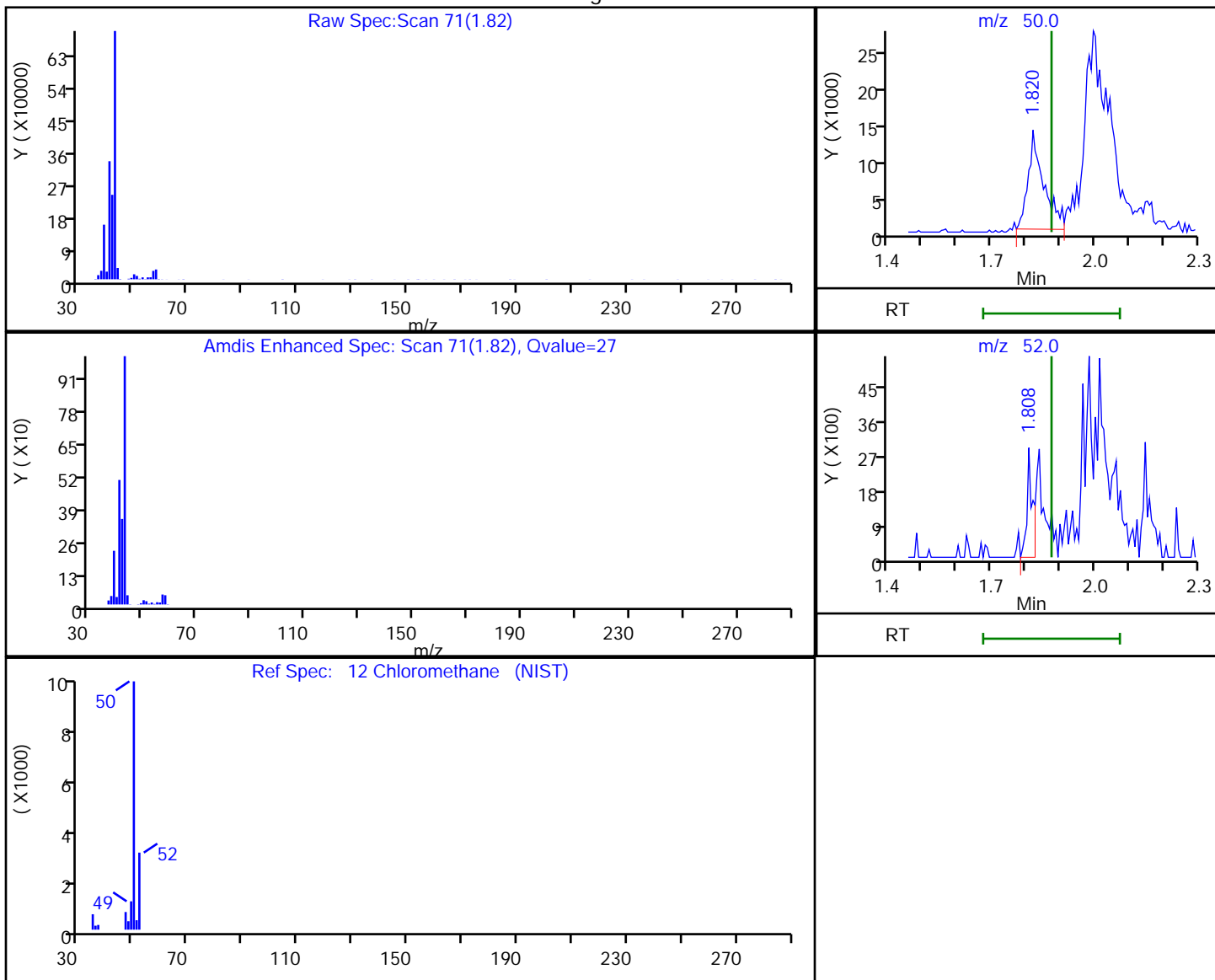


Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\6102317.D
Injection Date: 23-Oct-2019 17:01:30 Instrument ID: CHHP6
Lims ID: 180-97133-A-6 Lab Sample ID: 180-97133-6
Client ID: HD-MW-115-0/1-0
Operator ID: 433269 ALS Bottle#: 11 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

12 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
1.82	50.00	42444	10.363490
1.81	52.00	3119	

Reviewer: bowieh, 24-Oct-2019 09:35:41

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

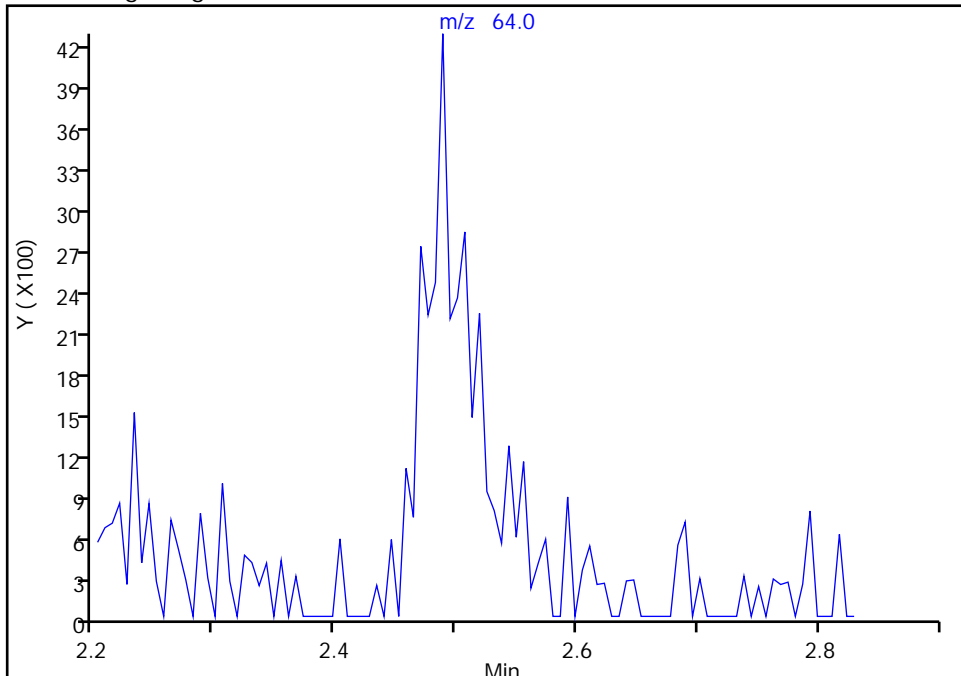
Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\6102317.D
Injection Date: 23-Oct-2019 17:01:30 Instrument ID: CHHP6
Lims ID: 180-97133-A-6 Lab Sample ID: 180-97133-6
Client ID: HD-MW-115-0/1-0
Operator ID: 433269 ALS Bottle#: 11 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

16 Chloroethane, CAS: 75-00-3

Signal: 1

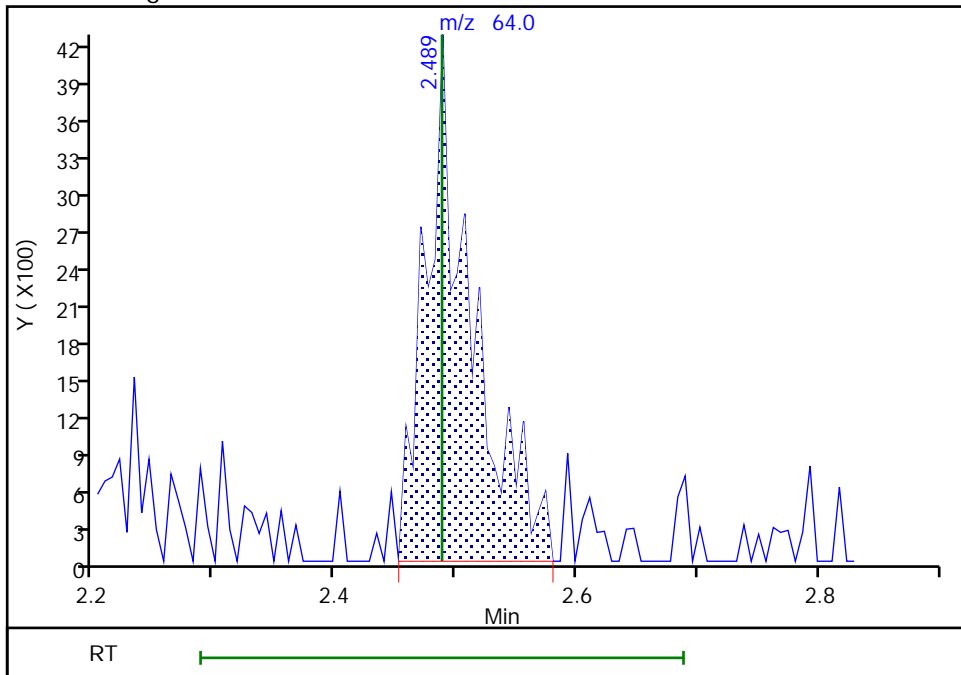
Not Detected
Expected RT: 2.49

Processing Integration Results



Manual Integration Results

RT: 2.49
Area: 11165
Amount: 4.151995
Amount Units: ng



Reviewer: bowieh, 24-Oct-2019 09:35:57
Audit Action: Manually Integrated

Audit Reason: Poor chromatography
Page 304 of 638

Eurofins TestAmerica, Pittsburgh

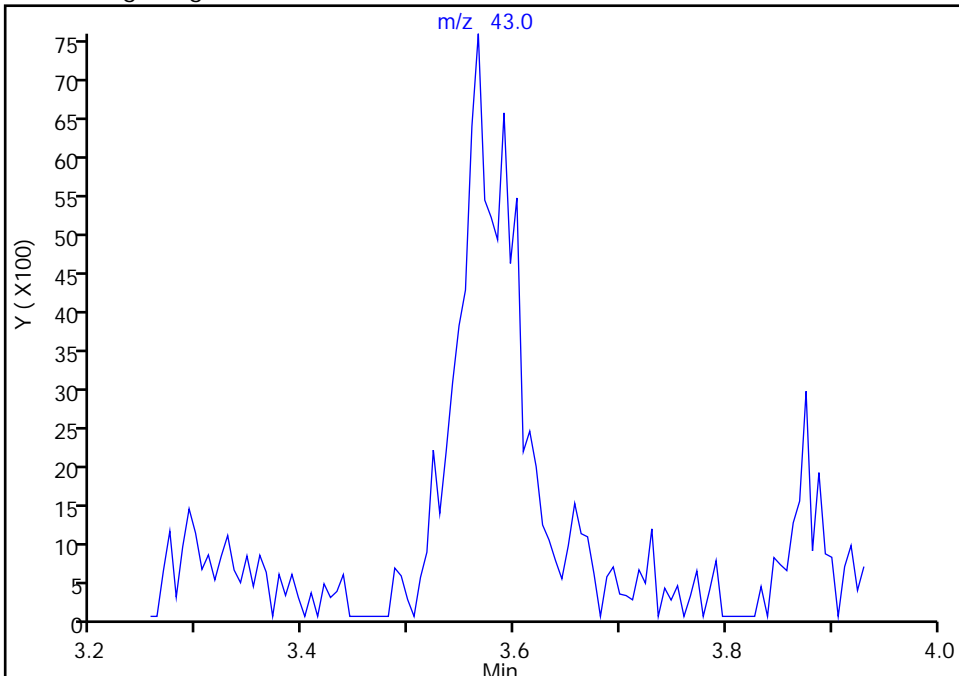
Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\6102317.D
Injection Date: 23-Oct-2019 17:01:30 Instrument ID: CHHP6
Lims ID: 180-97133-A-6 Lab Sample ID: 180-97133-6
Client ID: HD-MW-115-0/1-0
Operator ID: 433269 ALS Bottle#: 11 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

24 Acetone, CAS: 67-64-1

Signal: 1

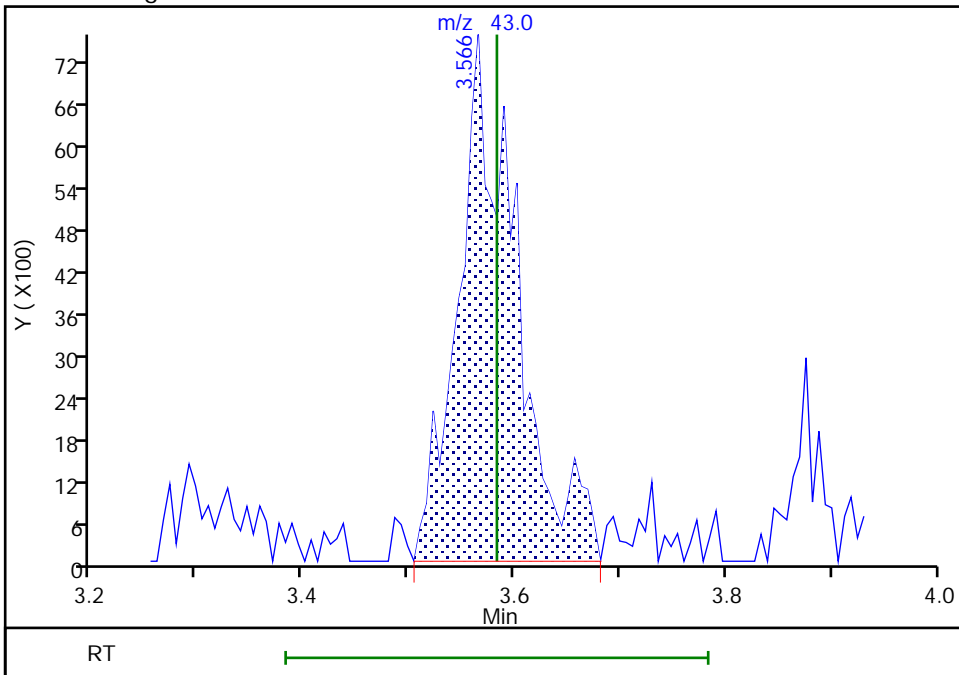
Not Detected
Expected RT: 3.58

Processing Integration Results



Manual Integration Results

RT: 3.57
Area: 28689
Amount: 20.979273
Amount Units: ng



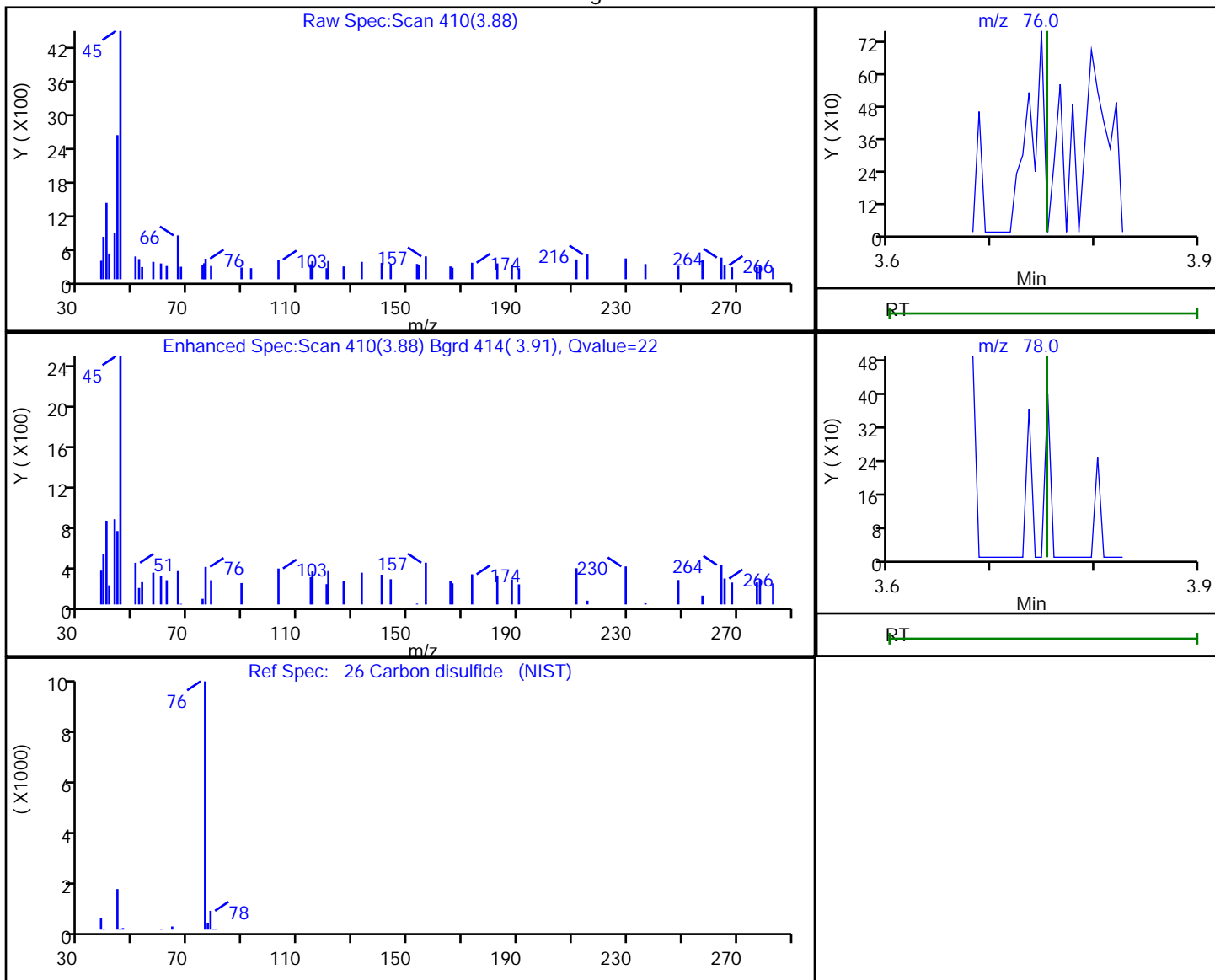
Reviewer: bowieh, 24-Oct-2019 09:36:11
Audit Action: Manually Integrated

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\6102317.D
Injection Date: 23-Oct-2019 17:01:30 Instrument ID: CHHP6
Lims ID: 180-97133-A-6 Lab Sample ID: 180-97133-6
Client ID: HD-MW-115-0/1-0
Operator ID: 433269 ALS Bottle#: 11 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

26 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
3.88	76.00	599	0.095157
3.89	78.00	354	

Reviewer: bowieh, 24-Oct-2019 09:36:32

Audit Action: Marked Compound Undetected

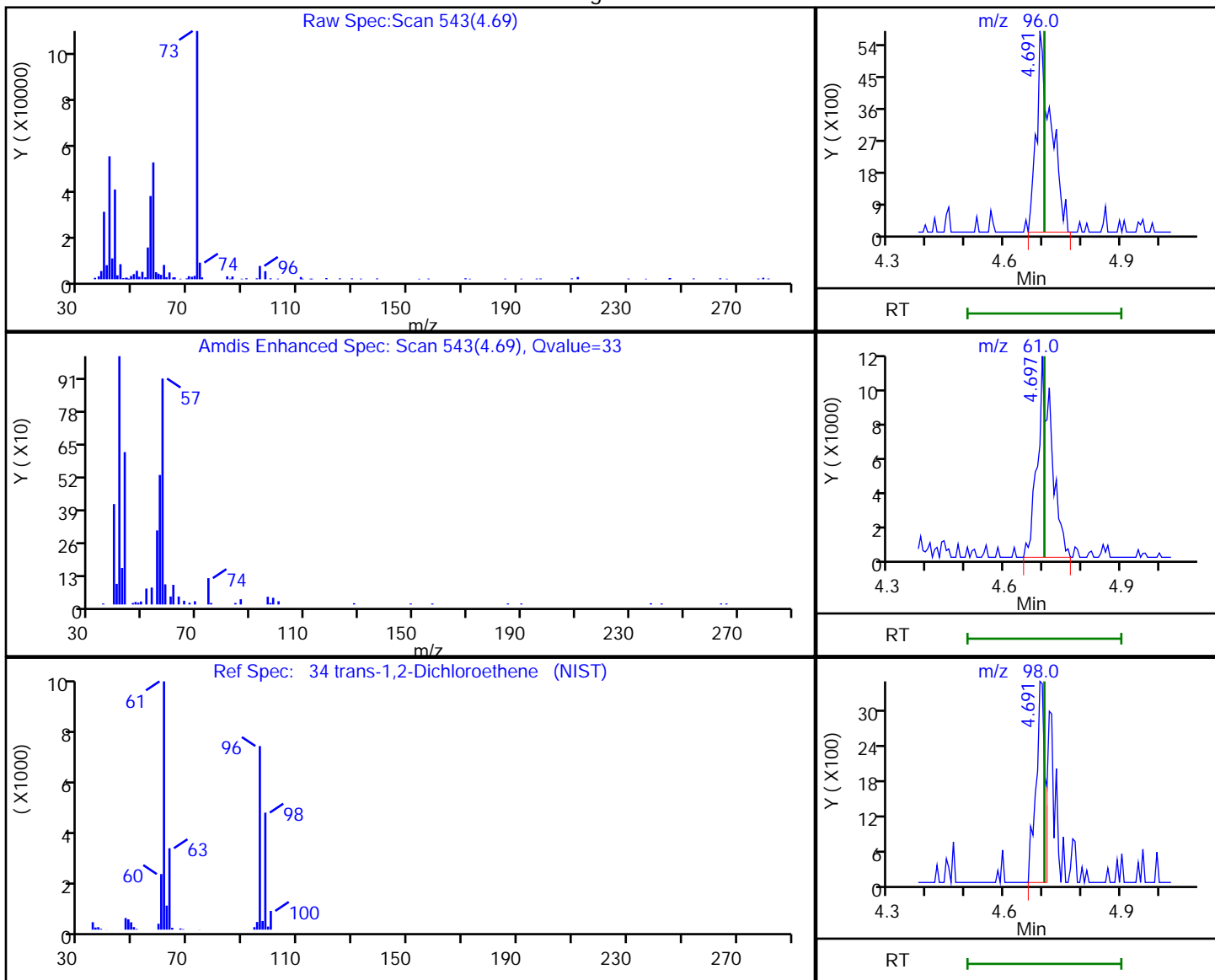
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\6102317.D
 Injection Date: 23-Oct-2019 17:01:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-6 Lab Sample ID: 180-97133-6
 Client ID: HD-MW-115-0/1-0
 Operator ID: 433269 ALS Bottle#: 11 Worklist Smp#: 17
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

34 trans-1,2-Dichloroethene, CAS: 156-60-5

Processing Results



RT	Mass	Response	Amount
4.69	96.00	14994	5.367693
4.70	61.00	28003	
4.69	98.00	5717	

Reviewer: bowieh, 24-Oct-2019 09:36:44

Audit Action: Marked Compound Undetected

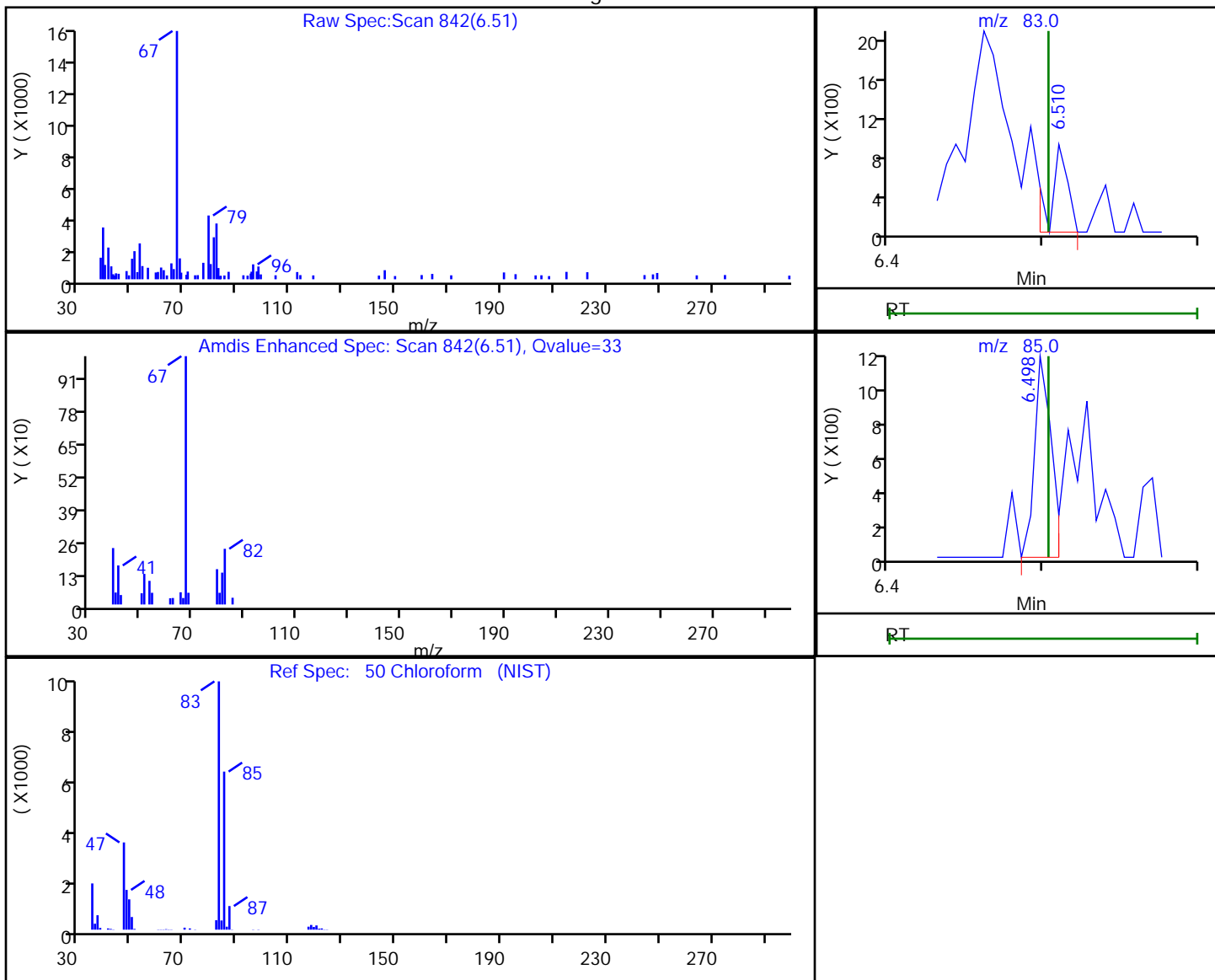
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\6102317.D
 Injection Date: 23-Oct-2019 17:01:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-6 Lab Sample ID: 180-97133-6
 Client ID: HD-MW-115-0/1-0
 Operator ID: 433269 ALS Bottle#: 11 Worklist Smp#: 17
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

50 Chloroform, CAS: 67-66-3

Processing Results



RT	Mass	Response	Amount
6.51	83.00	689	0.136763
6.50	85.00	875	

Reviewer: bowieh, 24-Oct-2019 09:36:52

Audit Action: Marked Compound Undetected

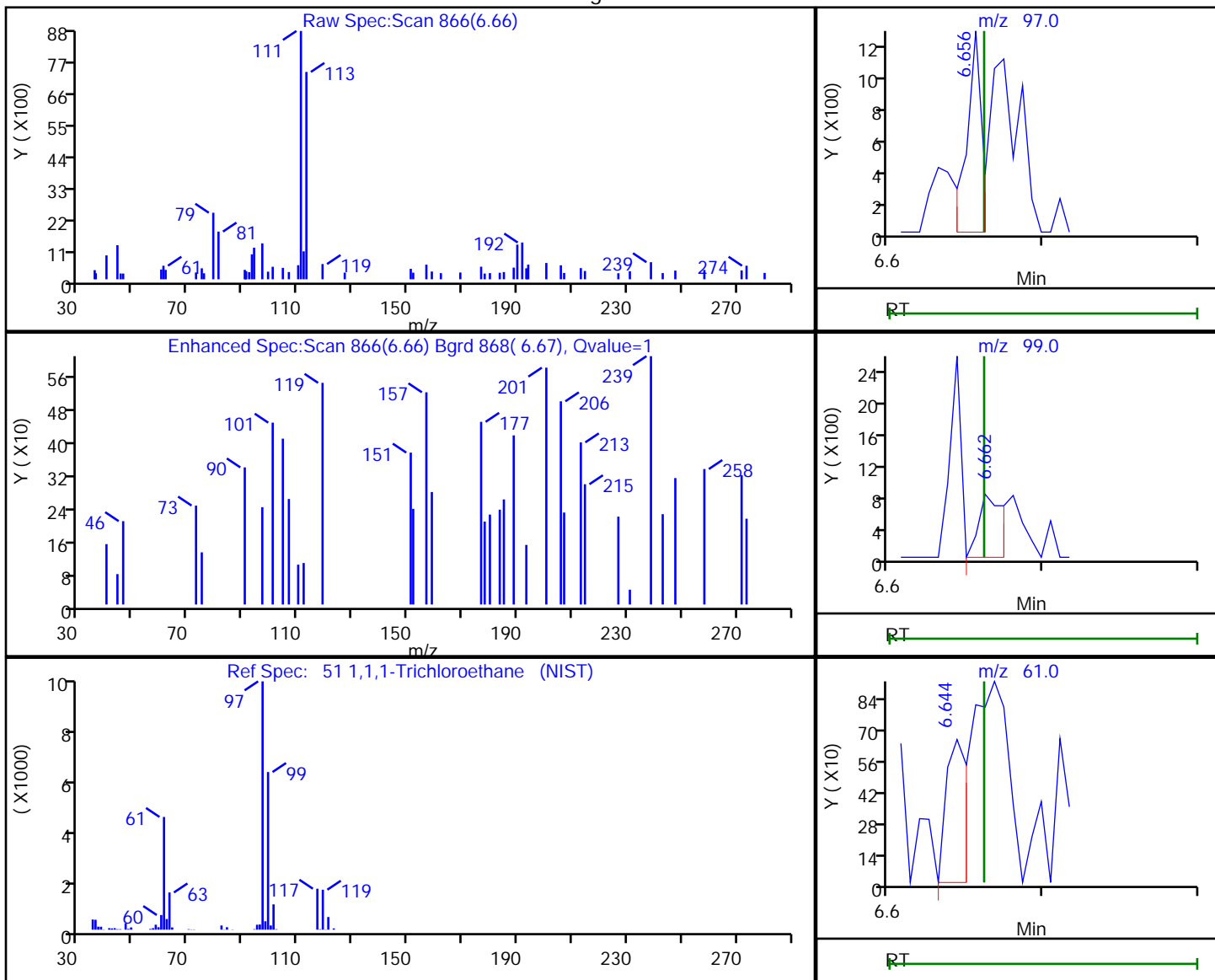
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\6102317.D
 Injection Date: 23-Oct-2019 17:01:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-6 Lab Sample ID: 180-97133-6
 Client ID: HD-MW-115-0/1-0
 Operator ID: 433269 ALS Bottle#: 11 Worklist Smp#: 17
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

51 1,1,1-Trichloroethane, CAS: 71-55-6

Processing Results



RT	Mass	Response	Amount
6.66	97.00	879	0.205812
6.66	99.00	855	
6.64	61.00	627	

Reviewer: bowieh, 24-Oct-2019 09:36:54

Audit Action: Marked Compound Undetected

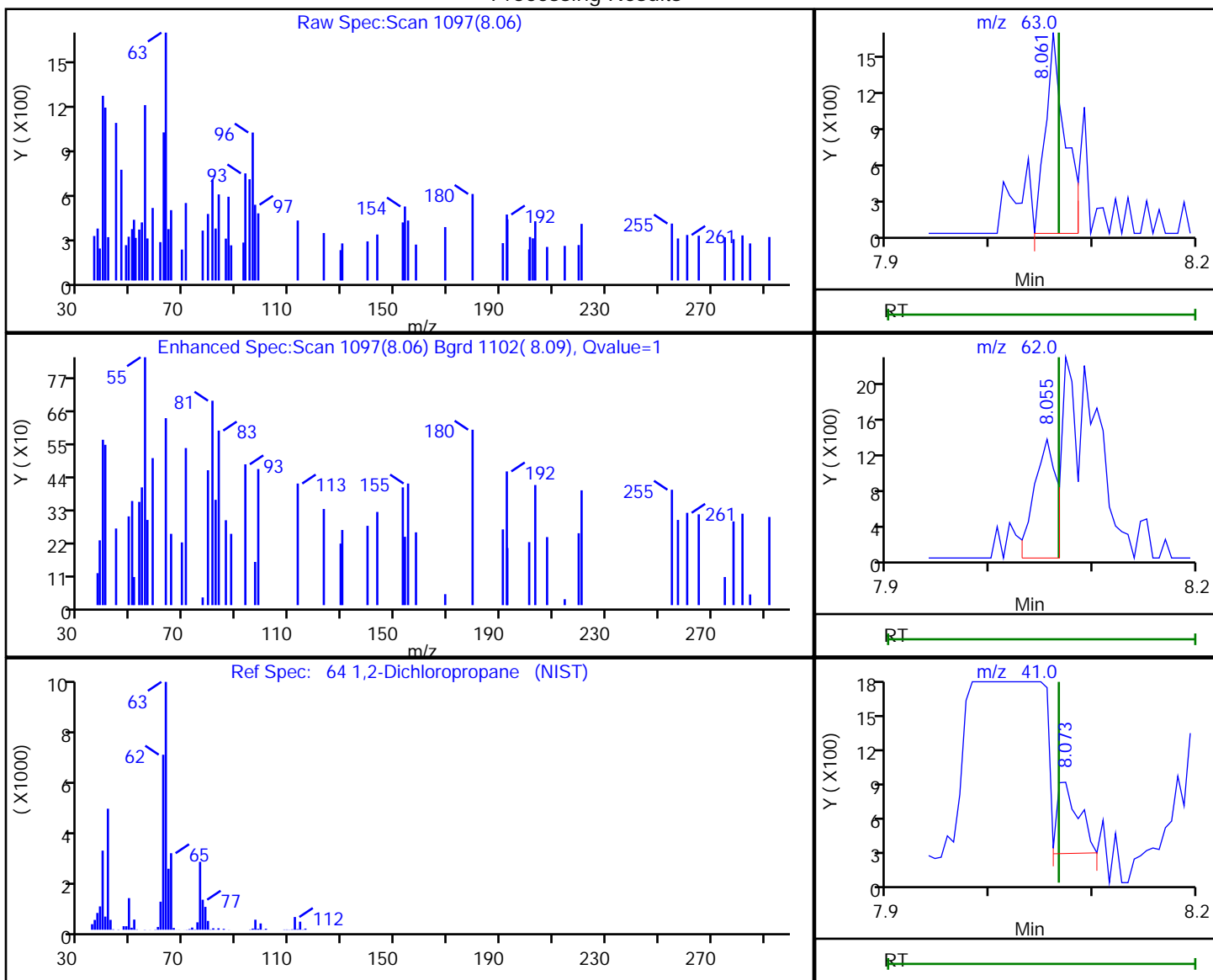
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\6102317.D
 Injection Date: 23-Oct-2019 17:01:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-6 Lab Sample ID: 180-97133-6
 Client ID: HD-MW-115-0/1-0
 Operator ID: 433269 ALS Bottle#: 11 Worklist Smp#: 17
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

64 1,2-Dichloropropane, CAS: 78-87-5

Processing Results



RT	Mass	Response	Amount
8.06	63.00	2267	0.942898
8.06	62.00	2074	
8.07	41.00	889	

Reviewer: bowieh, 24-Oct-2019 09:37:00

Audit Action: Marked Compound Undetected

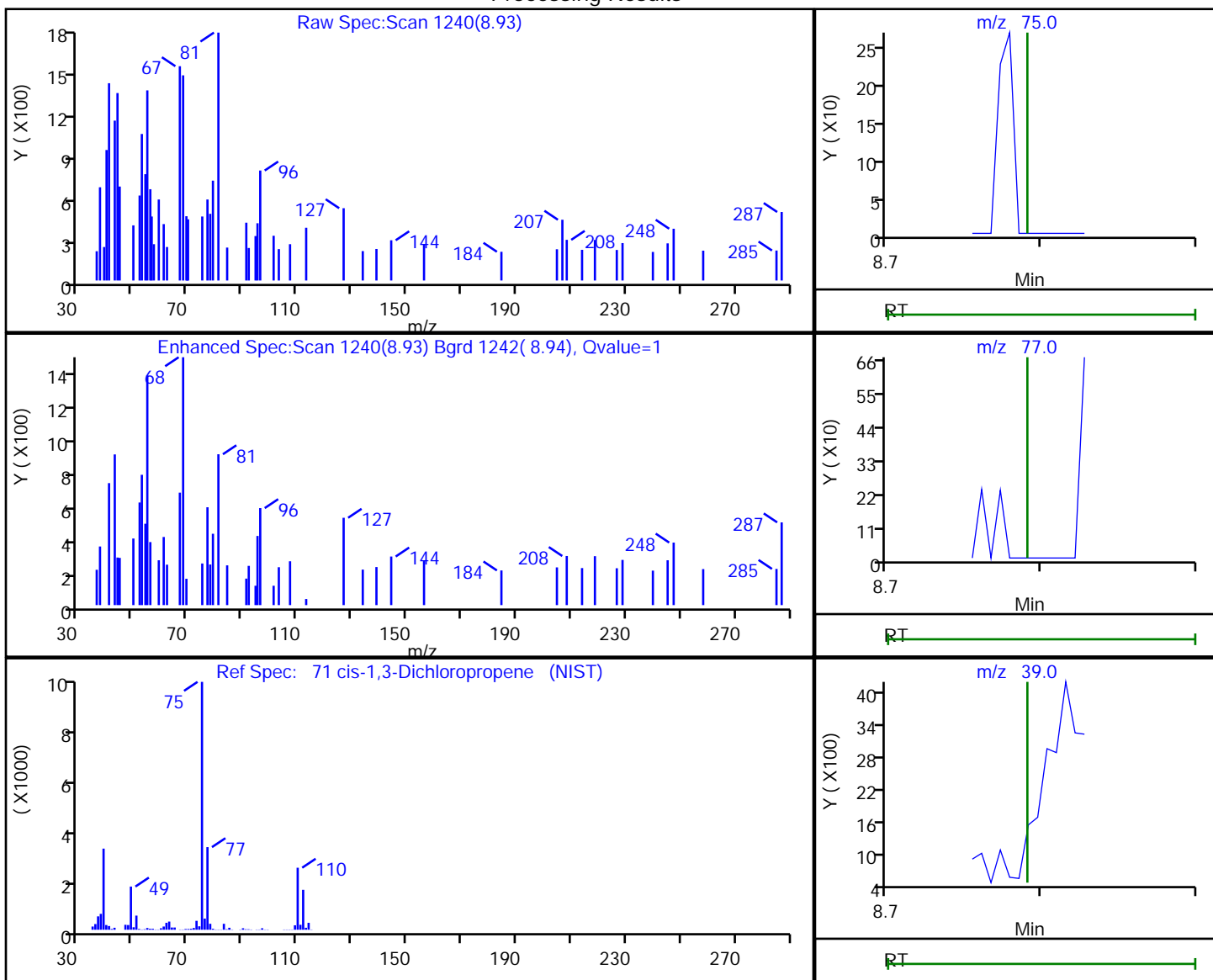
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\6102317.D
 Injection Date: 23-Oct-2019 17:01:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-6 Lab Sample ID: 180-97133-6
 Client ID: HD-MW-115-0/1-0
 Operator ID: 433269 ALS Bottle#: 11 Worklist Smp#: 17
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

71 cis-1,3-Dichloropropene, CAS: 10061-01-5

Processing Results



RT	Mass	Response	Amount
8.93	75.00	166	0.052905
8.93	77.00	475	
8.94	39.00	980	

Reviewer: bowieh, 24-Oct-2019 09:37:01

Audit Action: Marked Compound Undetected

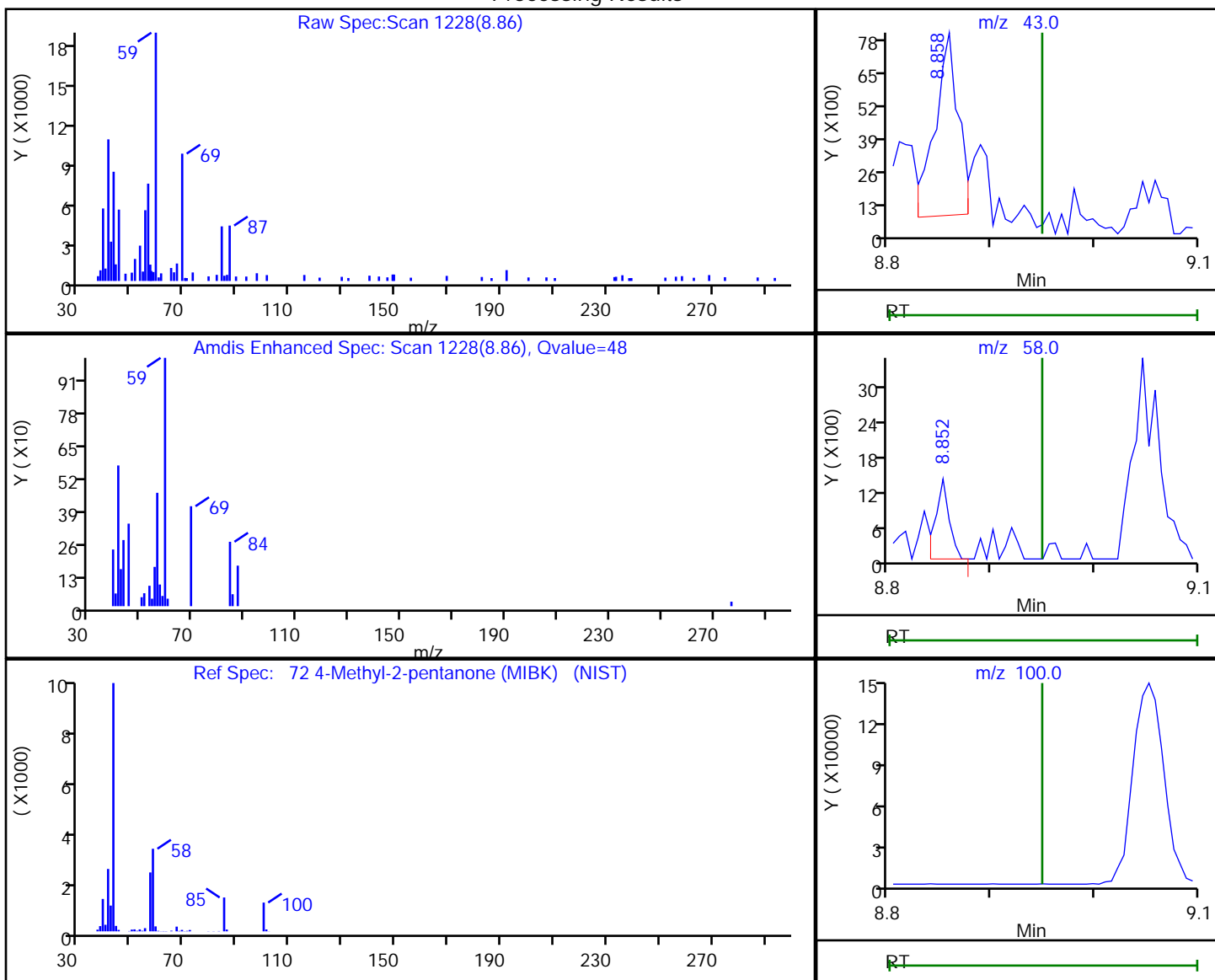
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\6102317.D
 Injection Date: 23-Oct-2019 17:01:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-6 Lab Sample ID: 180-97133-6
 Client ID: HD-MW-115-0/1-0
 Operator ID: 433269 ALS Bottle#: 11 Worklist Smp#: 17
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

72 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
8.86	43.00	11722	6.299403
8.85	58.00	1261	
8.95	100.00	0	

Reviewer: bowieh, 24-Oct-2019 09:37:03

Audit Action: Marked Compound Undetected

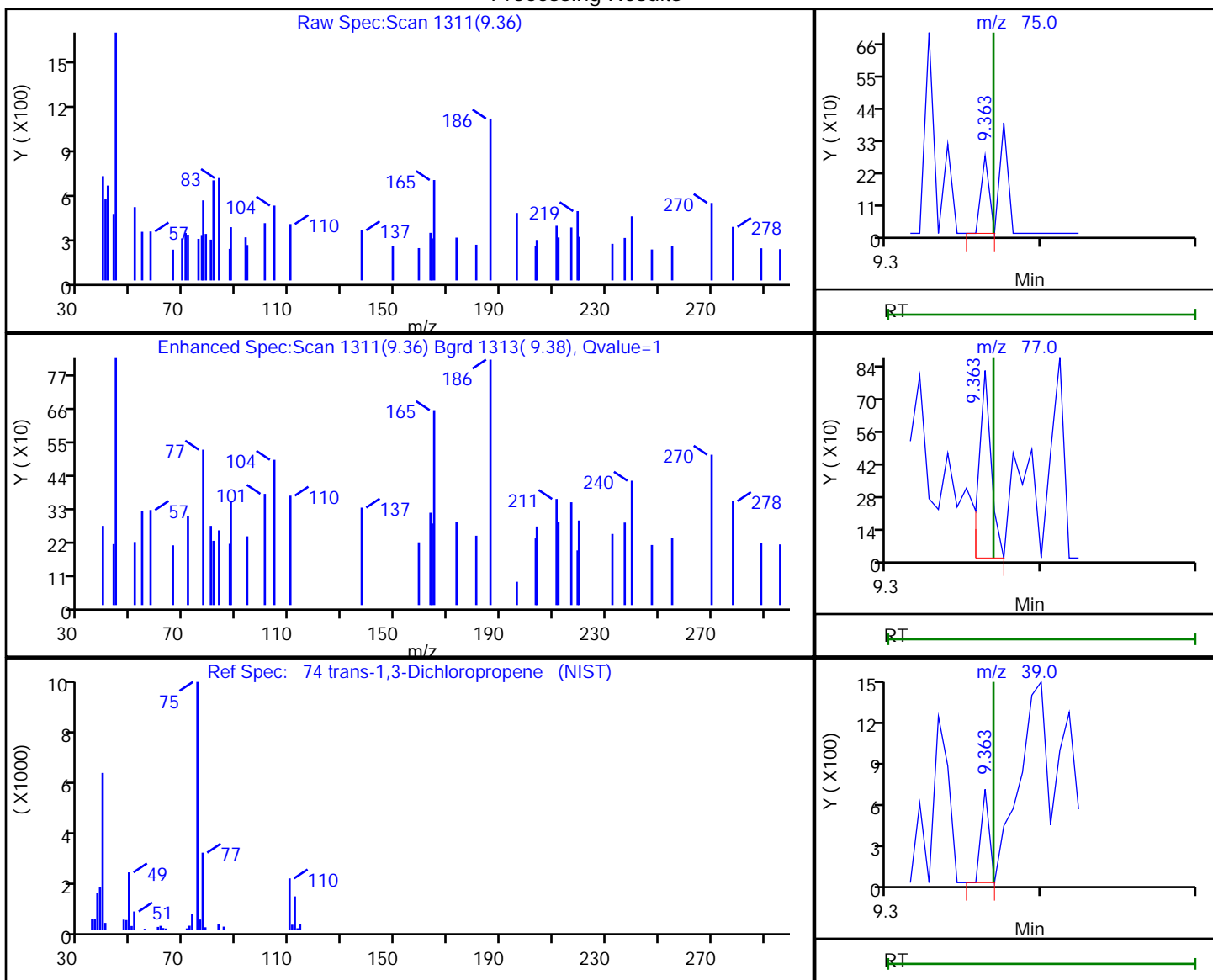
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\6102317.D
 Injection Date: 23-Oct-2019 17:01:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-6 Lab Sample ID: 180-97133-6
 Client ID: HD-MW-115-0/1-0
 Operator ID: 433269 ALS Bottle#: 11 Worklist Smp#: 17
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

74 trans-1,3-Dichloropropene, CAS: 10061-02-6

Processing Results



RT	Mass	Response	Amount
9.36	75.00	99	1.792017
9.36	77.00	445	
9.36	39.00	247	

Reviewer: bowieh, 24-Oct-2019 09:37:05

Audit Action: Marked Compound Undetected

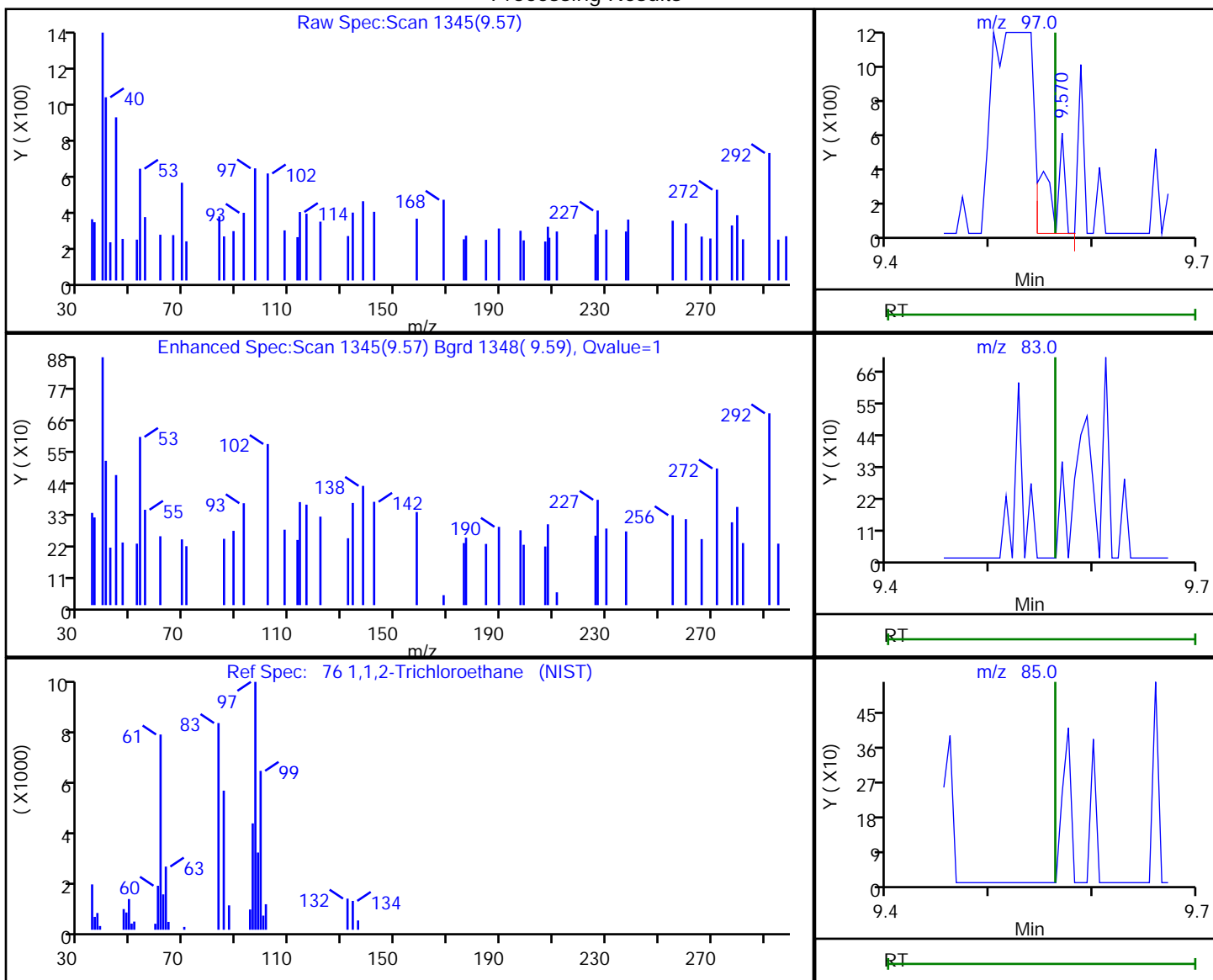
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\6102317.D
 Injection Date: 23-Oct-2019 17:01:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-6 Lab Sample ID: 180-97133-6
 Client ID: HD-MW-115-0/1-0
 Operator ID: 433269 ALS Bottle#: 11 Worklist Smp#: 17
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

76 1,1,2-Trichloroethane, CAS: 79-00-5

Processing Results



RT	Mass	Response	Amount
9.57	97.00	568	0.311706
9.56	83.00	0	
9.56	85.00	0	

Reviewer: bowieh, 24-Oct-2019 09:37:07

Audit Action: Marked Compound Undetected

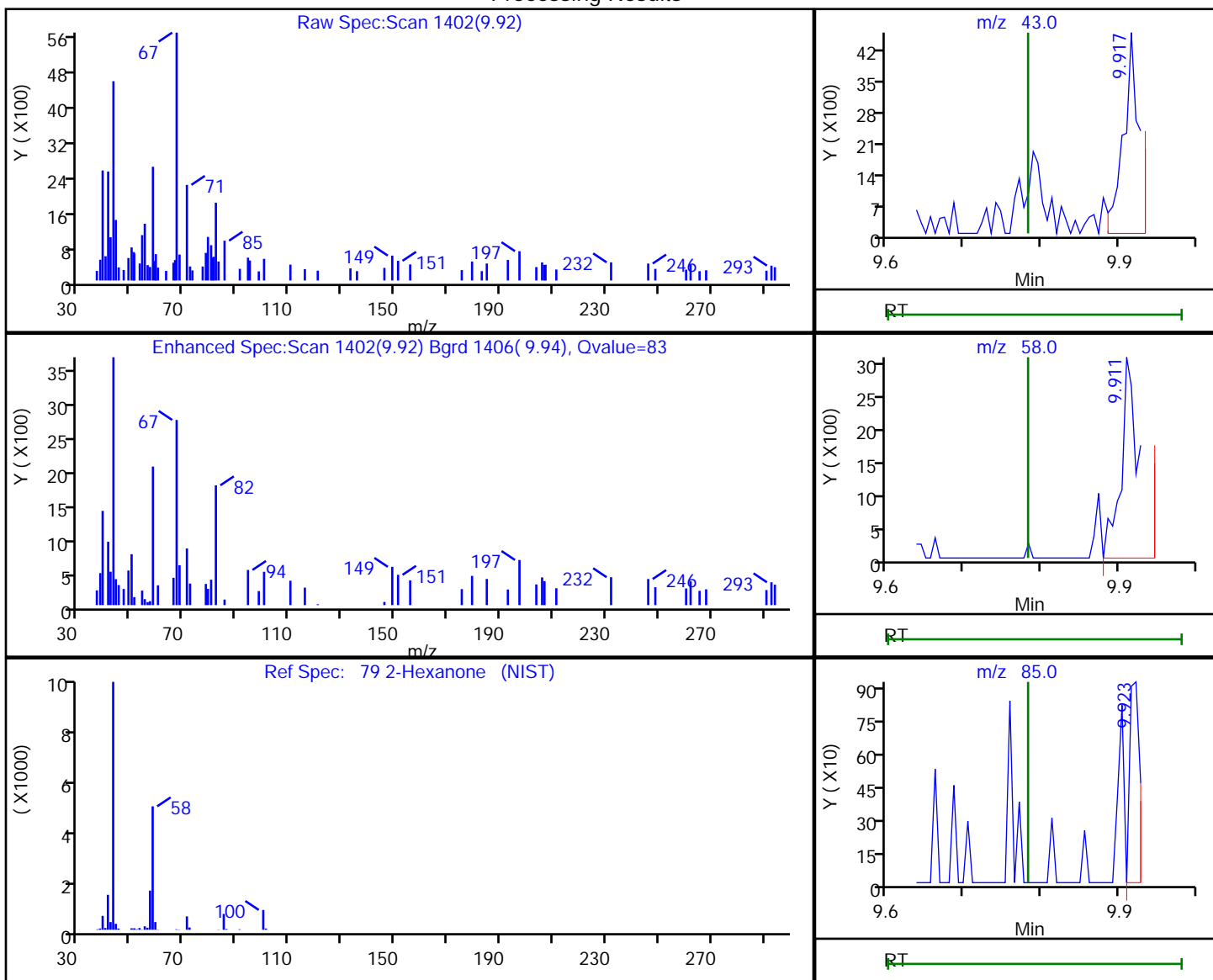
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\6102317.D
 Injection Date: 23-Oct-2019 17:01:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-6 Lab Sample ID: 180-97133-6
 Client ID: HD-MW-115-0/1-0
 Operator ID: 433269 ALS Bottle#: 11 Worklist Smp#: 17
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

79 2-Hexanone, CAS: 591-78-6

Processing Results



RT	Mass	Response	Amount
9.92	43.00	5973	3.907064
9.91	58.00	5022	
9.92	85.00	834	

Reviewer: bowieh, 24-Oct-2019 09:37:10

Audit Action: Marked Compound Undetected

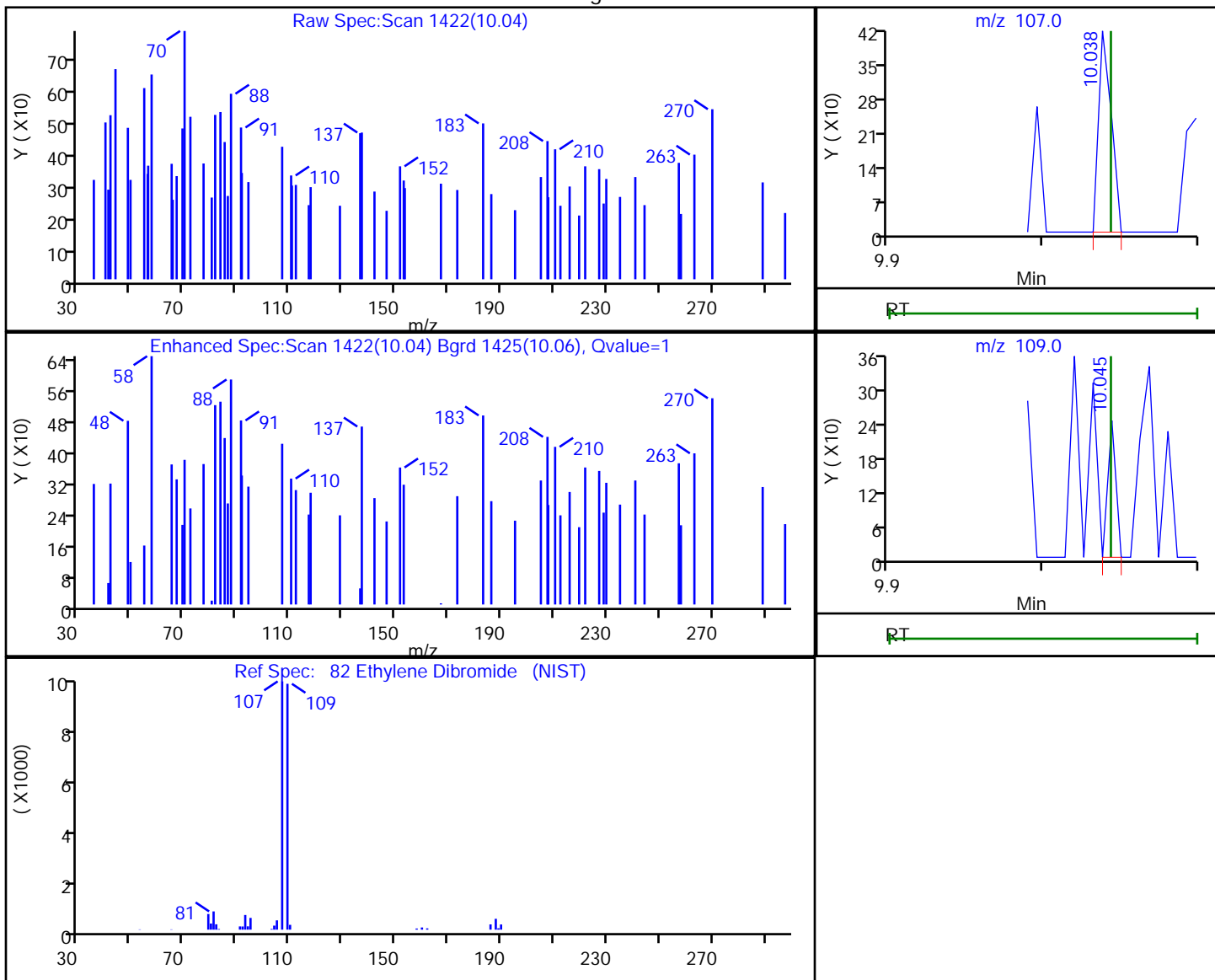
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Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\6102317.D
Injection Date: 23-Oct-2019 17:01:30 Instrument ID: CHHP6
Lims ID: 180-97133-A-6 Lab Sample ID: 180-97133-6
Client ID: HD-MW-115-0/1-0
Operator ID: 433269 ALS Bottle#: 11 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

82 Ethylene Dibromide, CAS: 106-93-4

Processing Results



RT	Mass	Response	Amount
10.04	107.00	239	0.129010
10.04	109.00	88	

Reviewer: bowieh, 24-Oct-2019 09:37:13

Audit Action: Marked Compound Undetected

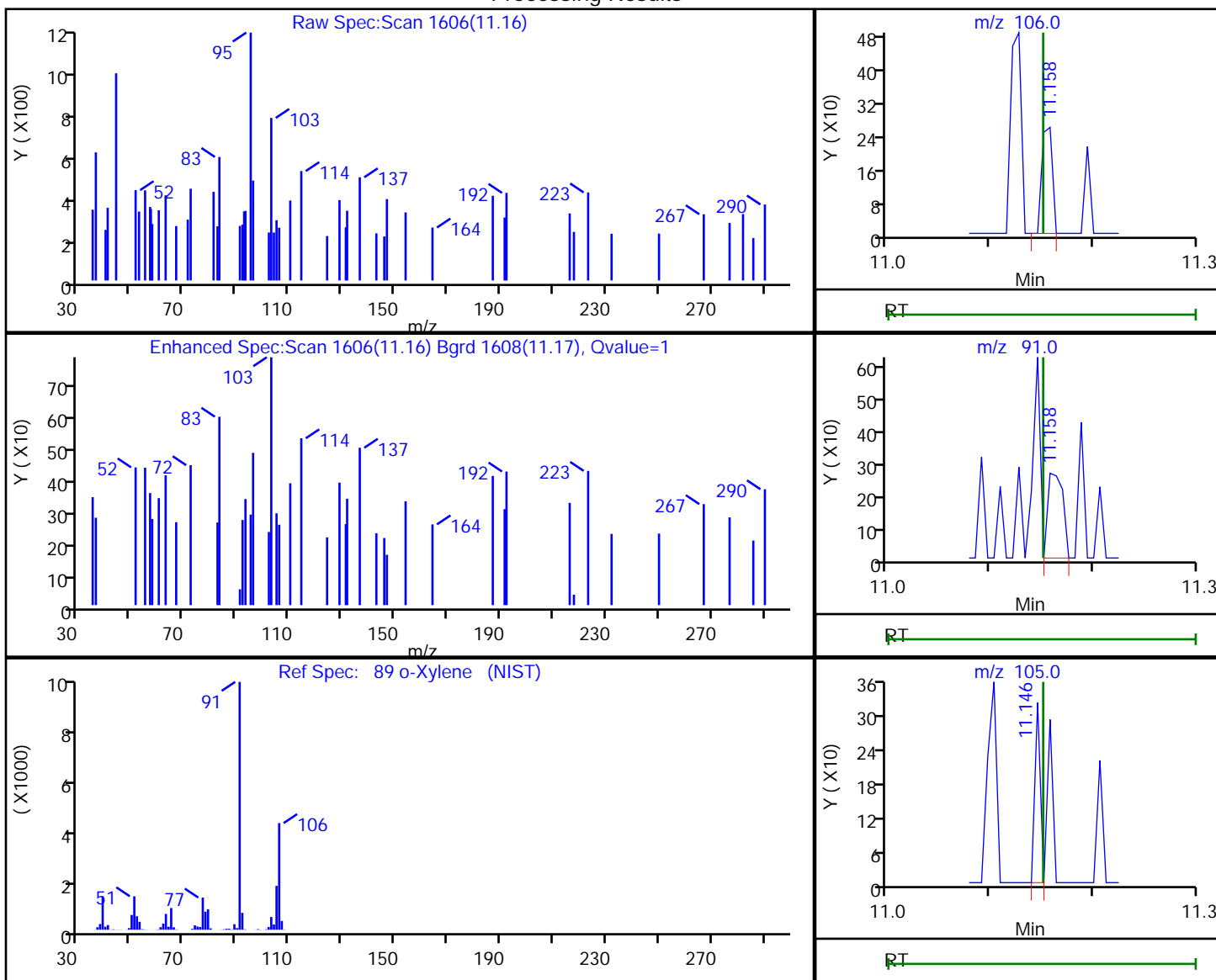
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\6102317.D
 Injection Date: 23-Oct-2019 17:01:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-6 Lab Sample ID: 180-97133-6
 Client ID: HD-MW-115-0/1-0
 Operator ID: 433269 ALS Bottle#: 11 Worklist Smp#: 17
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

89 o-Xylene, CAS: 95-47-6

Processing Results



RT	Mass	Response	Amount
11.16	106.00	181	0.040098
11.16	91.00	267	
11.15	105.00	117	

Reviewer: bowieh, 24-Oct-2019 09:37:55

Audit Action: Marked Compound Undetected

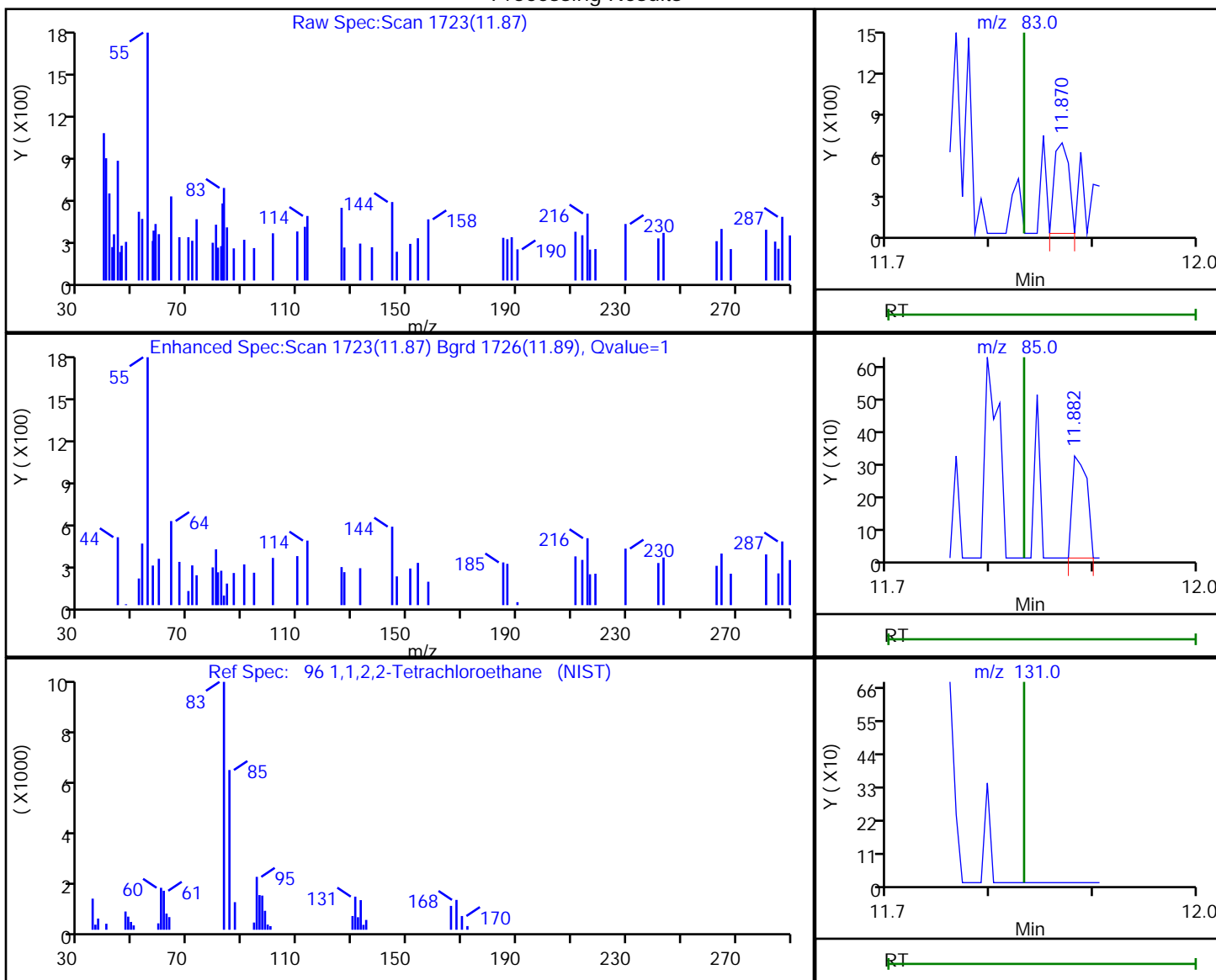
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\6102317.D
 Injection Date: 23-Oct-2019 17:01:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-6 Lab Sample ID: 180-97133-6
 Client ID: HD-MW-115-0/1-0
 Operator ID: 433269 ALS Bottle#: 11 Worklist Smp#: 17
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

96 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Processing Results



RT	Mass	Response	Amount
11.87	83.00	644	0.333014
11.88	85.00	310	
11.83	131.00	0	

Reviewer: bowieh, 24-Oct-2019 09:38:00

Audit Action: Marked Compound Undetected

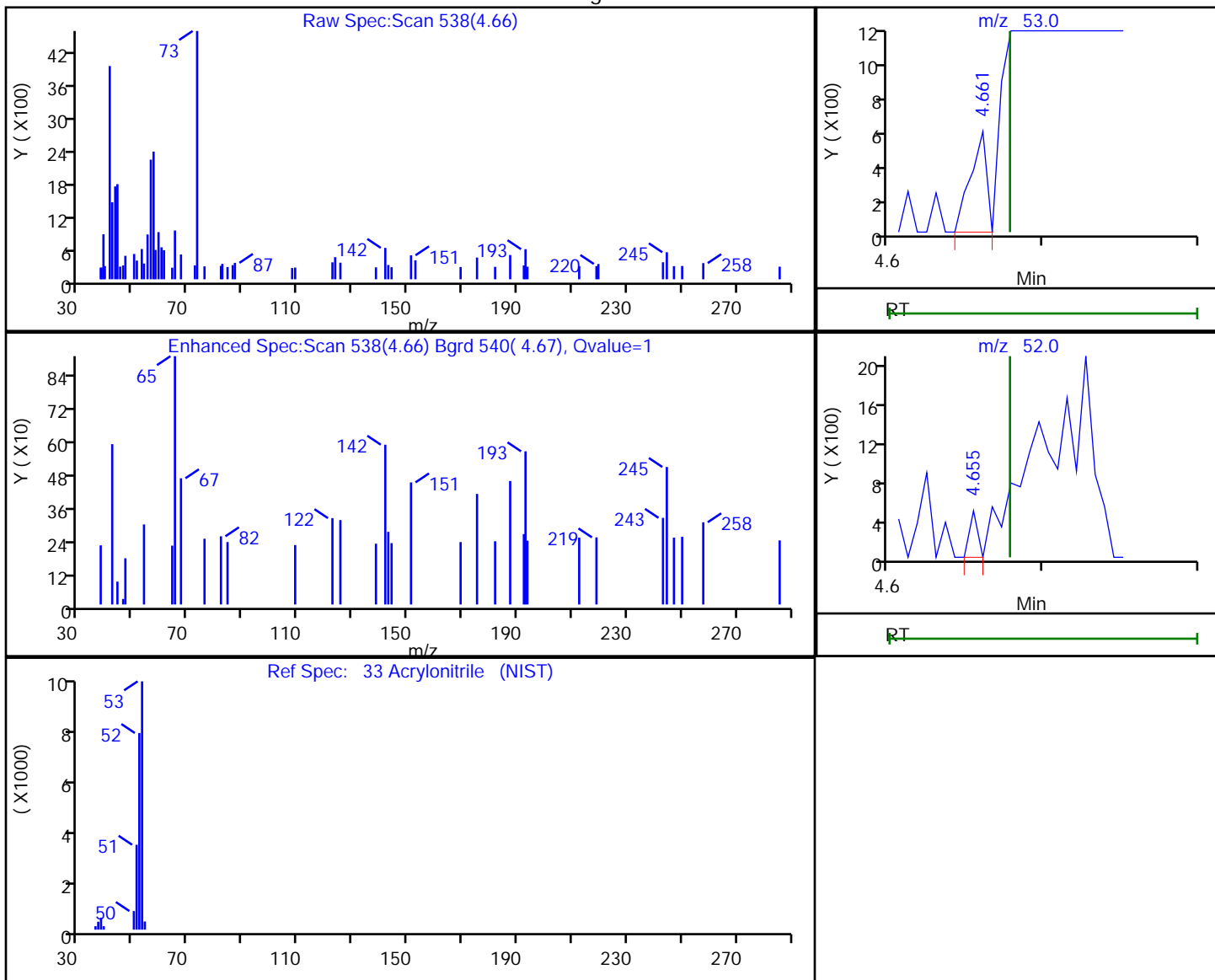
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\6102317.D
 Injection Date: 23-Oct-2019 17:01:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-6 Lab Sample ID: 180-97133-6
 Client ID: HD-MW-115-0/1-0
 Operator ID: 433269 ALS Bottle#: 11 Worklist Smp#: 17
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

33 Acrylonitrile, CAS: 107-13-1

Processing Results



RT	Mass	Response	Amount
4.66	53.00	411	0.443477
4.65	52.00	175	

Reviewer: bowieh, 24-Oct-2019 09:36:41

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1
 SDG No.: _____
 Client Sample ID: HD-MW-115-0/1-0 DL Lab Sample ID: 180-97133-6 DL
 Matrix: Water Lab File ID: 6101922.D
 Analysis Method: EPA 8260C Date Collected: 10/10/2019 11:45
 Sample wt/vol: 5 (mL) Date Analyzed: 10/19/2019 22:40
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 295448 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	ND		10	9.0
75-01-4	Vinyl chloride	67		10	8.8
74-83-9	Bromomethane	ND		10	8.9
75-00-3	Chloroethane	ND		10	9.0
75-35-4	1,1-Dichloroethene	ND		10	5.5
67-64-1	Acetone	ND		50	34
75-15-0	Carbon disulfide	ND		10	8.8
75-09-2	Methylene Chloride	ND		10	8.9
156-60-5	trans-1,2-Dichloroethene	ND		10	6.7
1634-04-4	Methyl tert-butyl ether	26		10	5.9
75-34-3	1,1-Dichloroethane	13		10	6.3
156-59-2	cis-1,2-Dichloroethene	150		10	7.1
74-97-5	Bromochloromethane	ND		10	6.3
78-93-3	2-Butanone (MEK)	ND		50	26
67-66-3	Chloroform	ND		10	6.0
71-55-6	1,1,1-Trichloroethane	ND		10	6.0
56-23-5	Carbon tetrachloride	ND		10	8.8
71-43-2	Benzene	7.7	J	10	6.0
107-06-2	1,2-Dichloroethane	ND		10	5.7
79-01-6	Trichloroethene	ND		10	6.9
78-87-5	1,2-Dichloropropane	ND		10	6.6
75-27-4	Bromodichloromethane	ND		10	6.4
10061-01-5	cis-1,3-Dichloropropene	ND		10	5.9
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		50	31
108-88-3	Toluene	ND		10	4.6
10061-02-6	trans-1,3-Dichloropropene	ND		10	5.8
79-00-5	1,1,2-Trichloroethane	ND		10	4.5
127-18-4	Tetrachloroethene	ND		10	4.7
591-78-6	2-Hexanone	ND		50	33
124-48-1	Dibromochloromethane	ND		10	8.4
106-93-4	1,2-Dibromoethane (EDB)	ND		10	5.0
108-90-7	Chlorobenzene	ND		10	5.0
630-20-6	1,1,1,2-Tetrachloroethane	ND		10	5.7
100-41-4	Ethylbenzene	ND		10	5.1
1330-20-7	Xylenes, Total	ND		20	8.9
100-42-5	Styrene	ND		10	4.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1
 SDG No.: _____
 Client Sample ID: HD-MW-115-0/1-0 DL Lab Sample ID: 180-97133-6 DL
 Matrix: Water Lab File ID: 6101922.D
 Analysis Method: EPA 8260C Date Collected: 10/10/2019 11:45
 Sample wt/vol: 5 (mL) Date Analyzed: 10/19/2019 22:40
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 295448 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	ND		10	9.8
79-34-5	1,1,2,2-Tetrachloroethane	ND		10	6.0
107-13-1	Acrylonitrile	ND		200	78

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	114		70-150
2037-26-5	Toluene-d8 (Surr)	104		78-128
460-00-4	4-Bromofluorobenzene (Surr)	106		64-123
1868-53-7	Dibromofluoromethane (Surr)	102		75-147

Eurofins TestAmerica, Pittsburgh
Target Compound Quantitation Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101922.D
 Lims ID: 180-97133-C-6
 Client ID: HD-MW-115-0/1-0
 Sample Type: Client
 Inject. Date: 19-Oct-2019 22:40:30 ALS Bottle#: 16 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 10.0000
 Sample Info: 180-0029191-022
 Misc. Info.: 180-97133-c-6
 Operator ID: 433269 Instrument ID: CHHP6
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C_D ICAL
 Last Update: 22-Oct-2019 10:03:18 Calib Date: 18-Oct-2019 18:47:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101817.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX0302

First Level Reviewer: bowieh

Date: 22-Oct-2019 10:03:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.433	4.429	0.004	87	135892	1000.0	
* 2 Fluorobenzene (IS)	96	7.407	7.410	-0.003	98	444704	50.0	
* 3 Chlorobenzene-d5	119	10.510	10.513	-0.003	89	108062	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.852	12.855	-0.003	98	158359	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.690	6.686	0.004	93	106824	51.1	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	7.055	7.057	-0.002	92	181351	56.8	
\$ 7 Toluene-d8 (Surr)	98	9.050	9.053	-0.003	94	410031	52.2	
\$ 8 4-Bromofluorobenzene (Surr	95	11.696	11.693	0.003	0	171453	52.8	
12 Chloromethane	50		1.886				ND	U
13 Vinyl chloride	62	1.993	2.008	-0.015	87	106345	33.3	
15 Bromomethane	94		2.355				ND	U
16 Chloroethane	64		2.495				ND	
22 1,1-Dichloroethene	96	3.478	3.468	0.010	38	3115	1.46	
24 Acetone	43		3.584				ND	
26 Carbon disulfide	76		3.766				ND	U
31 Methylene Chloride	84	4.305	4.289	0.016	47	9001	0.7516	a
33 Acrylonitrile	53		4.679				ND	U
34 trans-1,2-Dichloroethene	96		4.709				ND	U
35 Methyl tert-butyl ether	73	4.725	4.715	0.010	96	71263	12.9	
37 1,1-Dichloroethane	63	5.339	5.336	0.003	94	29888	6.67	Ma
43 cis-1,2-Dichloroethene	96	6.081	6.078	0.003	82	194802	73.1	
44 2-Butanone (MEK)	43		6.090				ND	
48 Chlorobromomethane	128		6.358				ND	U
50 Chloroform	83	6.501	6.510	-0.009	71	6288	1.36	a
51 1,1,1-Trichloroethane	97		6.662				ND	U
53 Carbon tetrachloride	117		6.826				ND	
56 Benzene	78	7.067	7.063	0.004	48	35568	3.85	M
57 1,2-Dichloroethane	62		7.142				ND	U
61 Trichloroethene	130	7.809	7.793	0.016	8	953	0.3332	
64 1,2-Dichloropropane	63		8.061				ND	U
68 Dichlorobromomethane	83		8.347				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
71 cis-1,3-Dichloropropene	75		8.797				ND	U
72 4-Methyl-2-pentanone (MIBK)	43		8.955				ND	U
73 Toluene	91	9.111	9.126	-0.015	1	1929	0.1984	
74 trans-1,3-Dichloropropene	75		9.369				ND	U
76 1,1,2-Trichloroethane	97		9.570				ND	U
77 Tetrachloroethene	164		9.631				ND	U
79 2-Hexanone	43		9.789				ND	U
81 Chlorodibromomethane	129		9.935				ND	U
82 Ethylene Dibromide	107	10.042	10.044	-0.002	24	844	0.4628	
84 Chlorobenzene	112		10.537				ND	U
87 Ethylbenzene	106		10.634				ND	U
86 1,1,1,2-Tetrachloroethane	131		10.634				ND	
88 m-Xylene & p-Xylene	106		10.762				ND	U
89 o-Xylene	106		11.145				ND	U
90 Styrene	104		11.170				ND	U
91 Bromoform	173		11.352				ND	
96 1,1,2,2-Tetrachloroethane	83		11.833				ND	U
S 131 Xylenes, Total	106		1.000				ND	

QC Flag Legend

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

voaWI/SHP5_00014

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101922.D

Injection Date: 19-Oct-2019 22:40:30

Instrument ID: CHHP6

Operator ID: 433269

Lims ID: 180-97133-C-6

Lab Sample ID: 180-97133-6

Worklist Smp#: 22

Client ID: HD-MW-115-0/1-0

Purge Vol: 5.000 mL

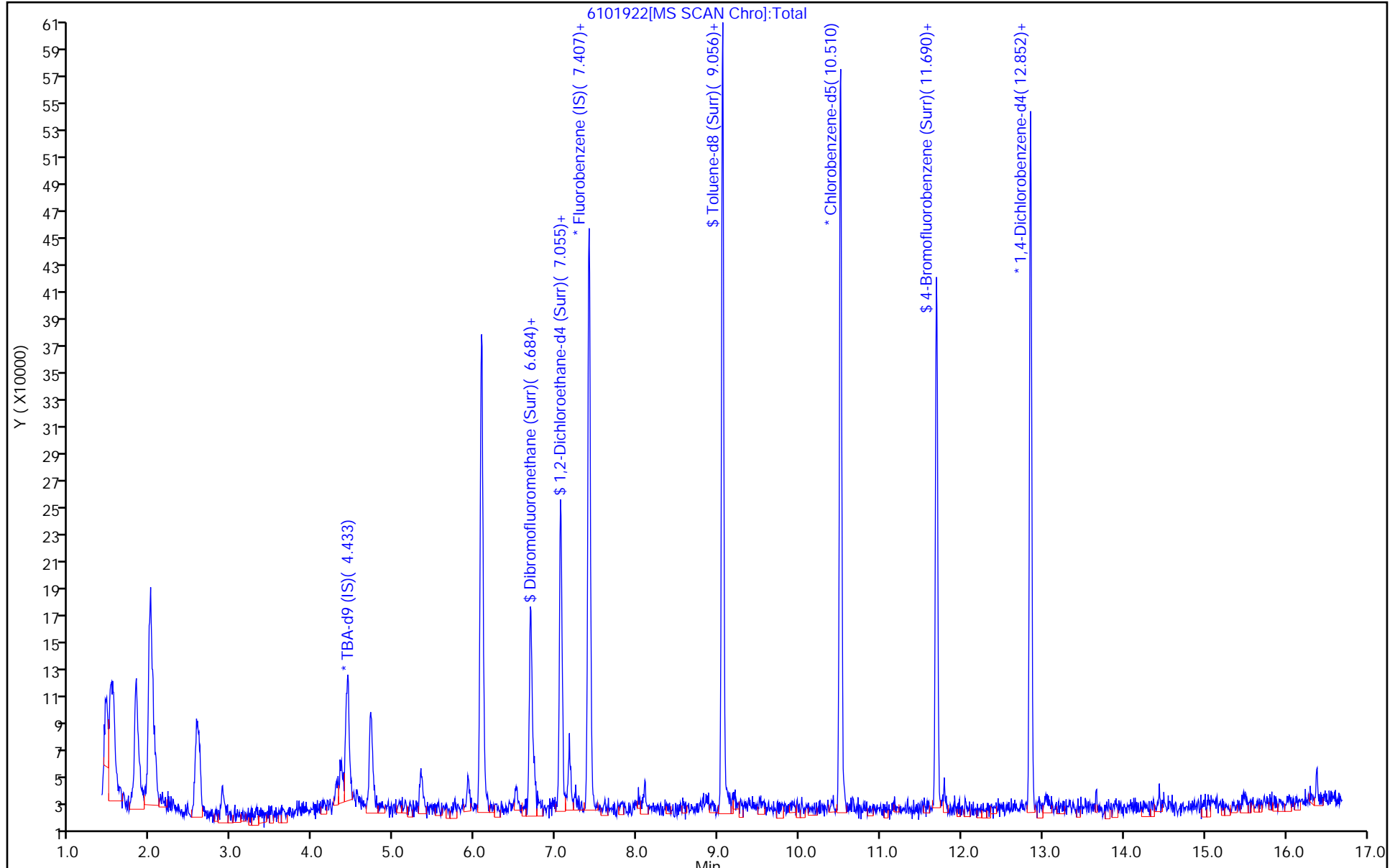
Dil. Factor: 10.0000

ALS Bottle#: 16

Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C_D ICAL

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Pittsburgh
Recovery Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101922.D
 Lims ID: 180-97133-C-6
 Client ID: HD-MW-115-0/1-0
 Sample Type: Client
 Inject. Date: 19-Oct-2019 22:40:30 ALS Bottle#: 16 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 10.0000
 Sample Info: 180-0029191-022
 Misc. Info.: 180-97133-c-6
 Operator ID: 433269 Instrument ID: CHHP6
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C_D ICAL
 Last Update: 22-Oct-2019 10:03:18 Calib Date: 18-Oct-2019 18:47:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101817.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX0302

First Level Reviewer: bowieh

Date: 22-Oct-2019 10:03:18

Compound	Amount Added	Amount Recovered	% Rec.
\$ 5 Dibromofluoromethane (Surr)	50.0	51.1	102.26
\$ 6 1,2-Dichloroethane-d4 (Surr)	50.0	56.8	113.59
\$ 7 Toluene-d8 (Surr)	50.0	52.2	104.33
\$ 8 4-Bromofluorobenzene (Surr)	50.0	52.8	105.66

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101922.D

Injection Date: 19-Oct-2019 22:40:30

Instrument ID: CHHP6

Lims ID: 180-97133-C-6

Lab Sample ID: 180-97133-6

Client ID: HD-MW-115-0/1-0

Operator ID: 433269

ALS Bottle#: 16

Worklist Smp#: 22

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

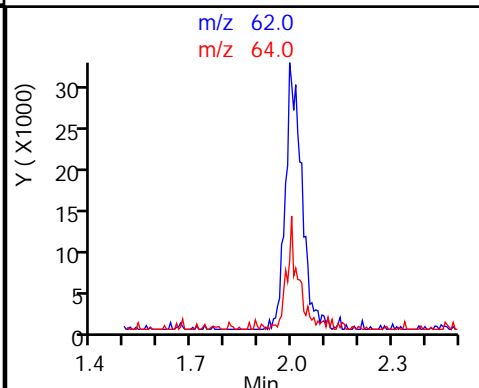
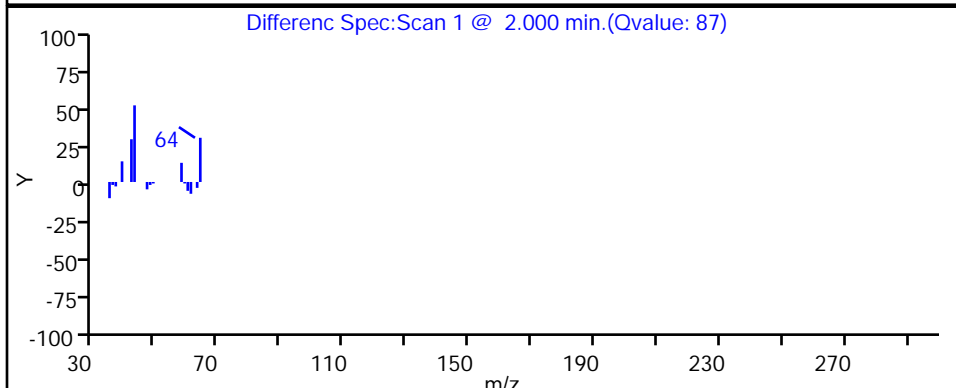
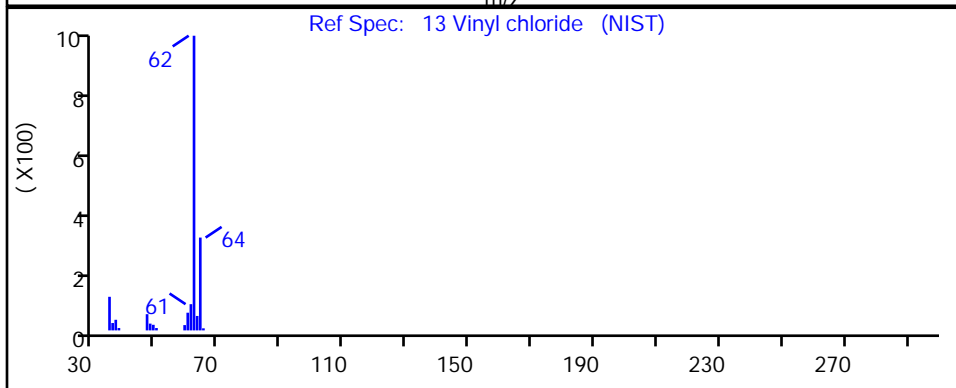
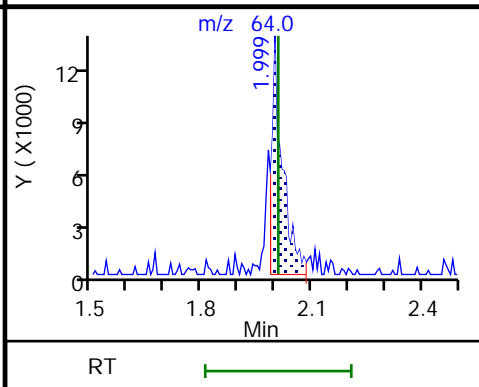
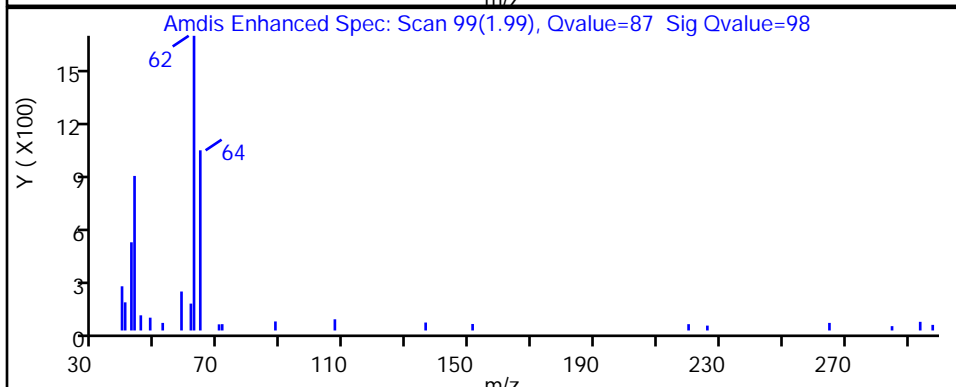
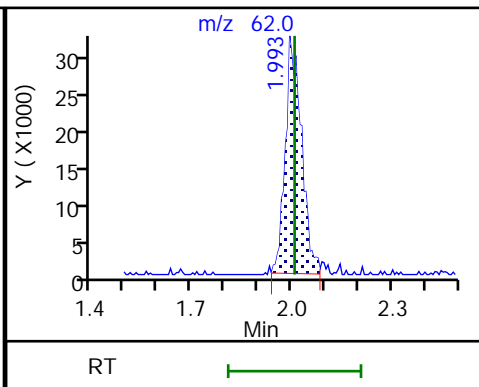
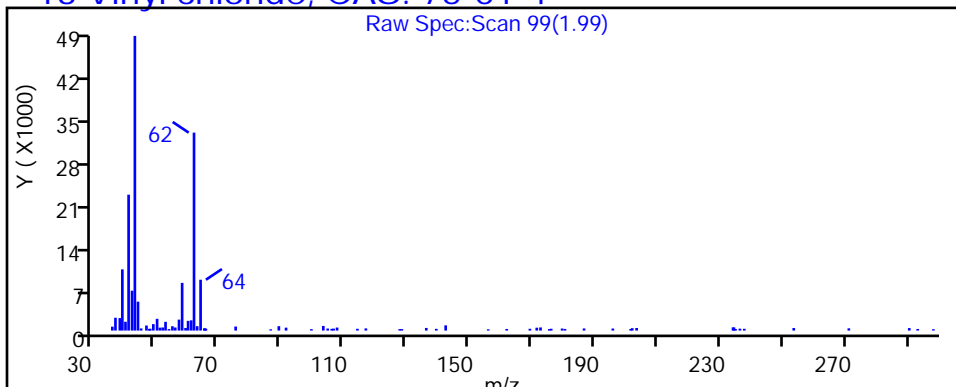
Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C_D ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

13 Vinyl chloride, CAS: 75-01-4



Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101922.D

Injection Date: 19-Oct-2019 22:40:30

Instrument ID: CHHP6

Lims ID: 180-97133-C-6

Lab Sample ID: 180-97133-6

Client ID: HD-MW-115-0/1-0

Operator ID: 433269

ALS Bottle#: 16

Worklist Smp#: 22

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

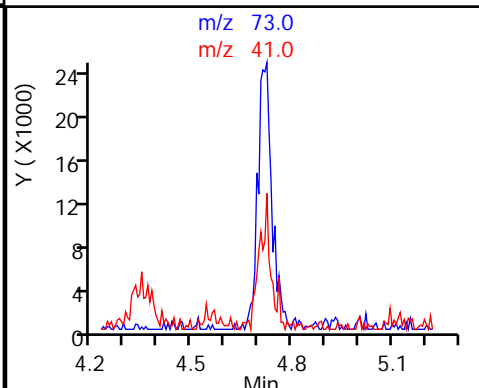
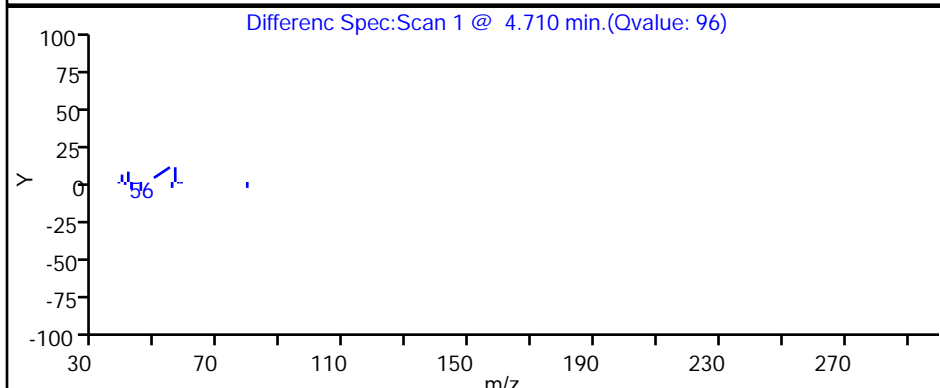
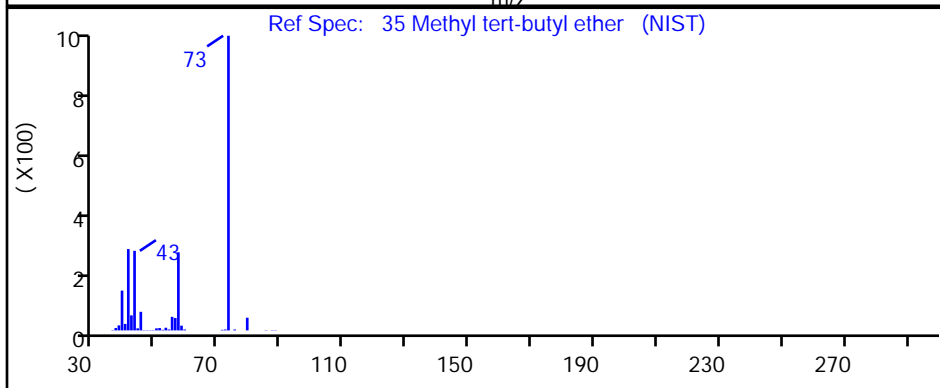
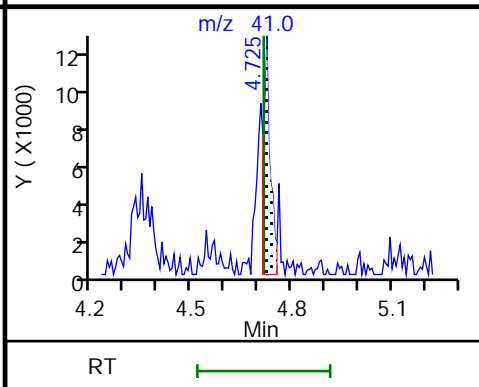
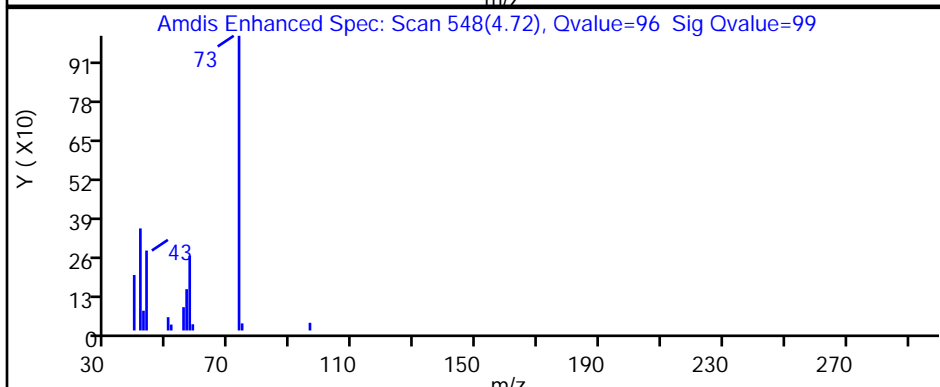
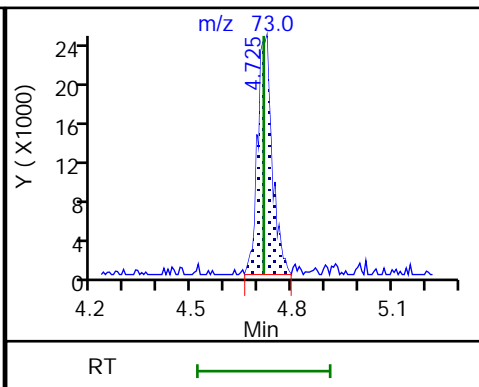
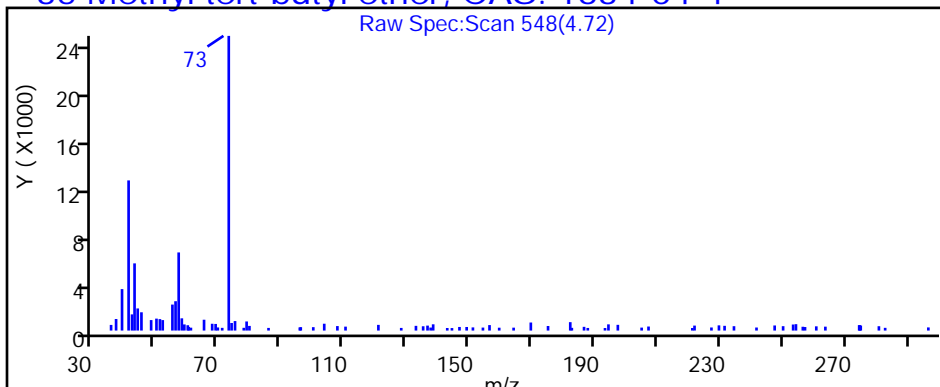
Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C_D ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

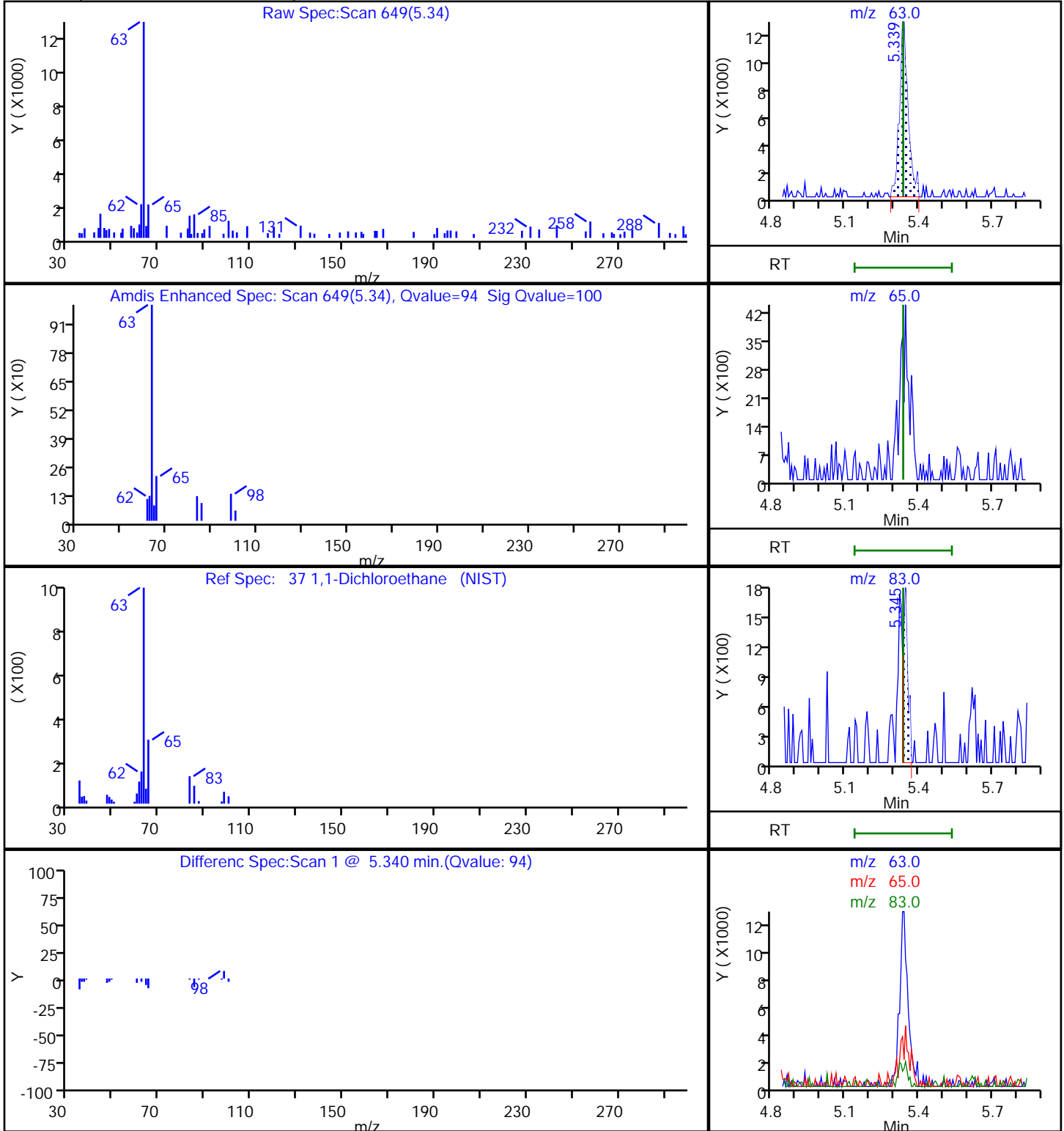
35 Methyl tert-butyl ether, CAS: 1634-04-4



Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101922.D
Injection Date: 19-Oct-2019 22:40:30 Instrument ID: CHHP6
Lims ID: 180-97133-C-6 Lab Sample ID: 180-97133-6
Client ID: HD-MW-115-0/1-0
Operator ID: 433269 ALS Bottle#: 16 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 10.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

37 1,1-Dichloroethane, CAS: 75-34-3



Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101922.D

Injection Date: 19-Oct-2019 22:40:30

Instrument ID: CHHP6

Lims ID: 180-97133-C-6

Lab Sample ID: 180-97133-6

Client ID: HD-MW-115-0/1-0

Operator ID: 433269

ALS Bottle#: 16

Worklist Smp#: 22

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

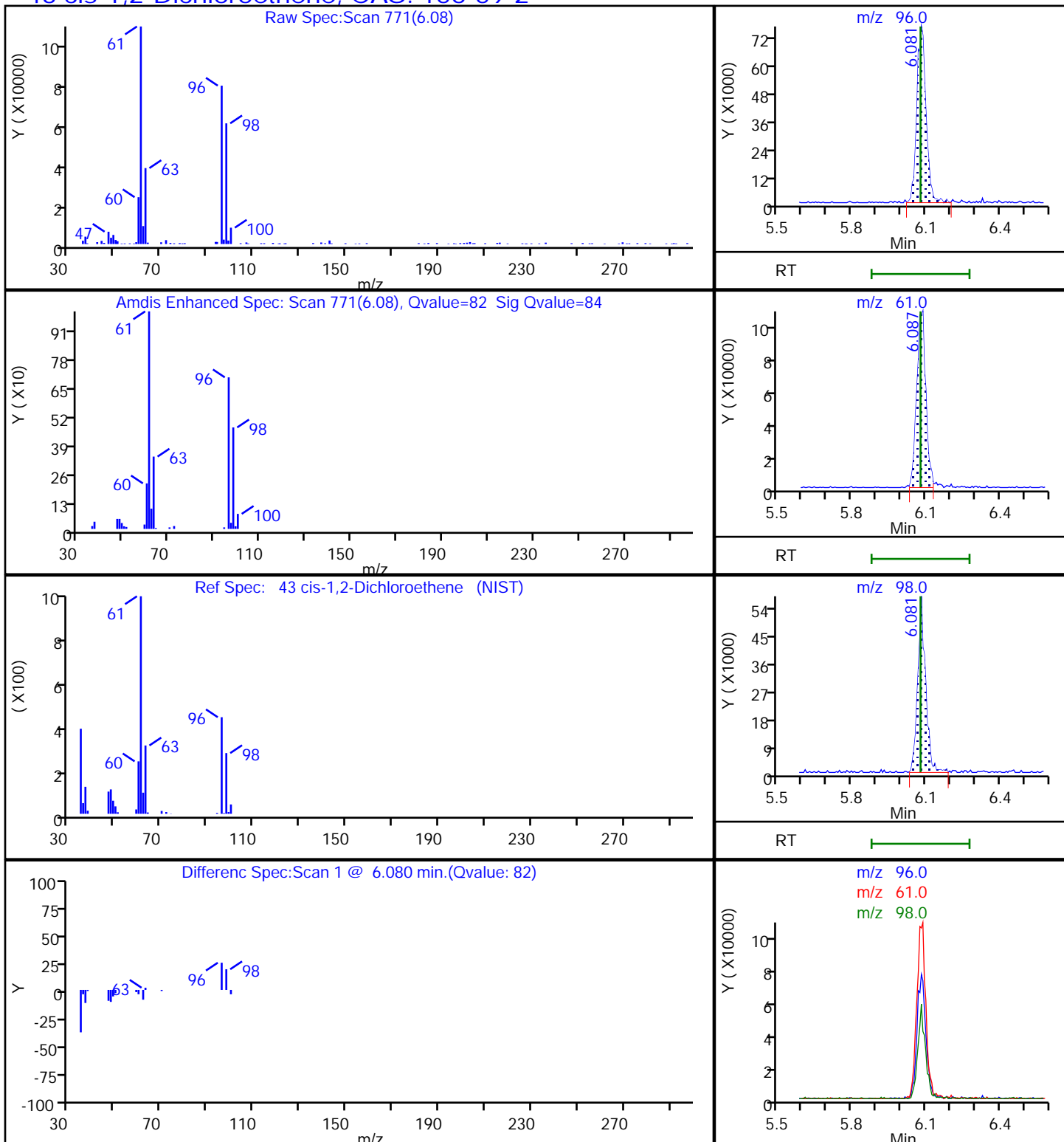
Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C_D ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

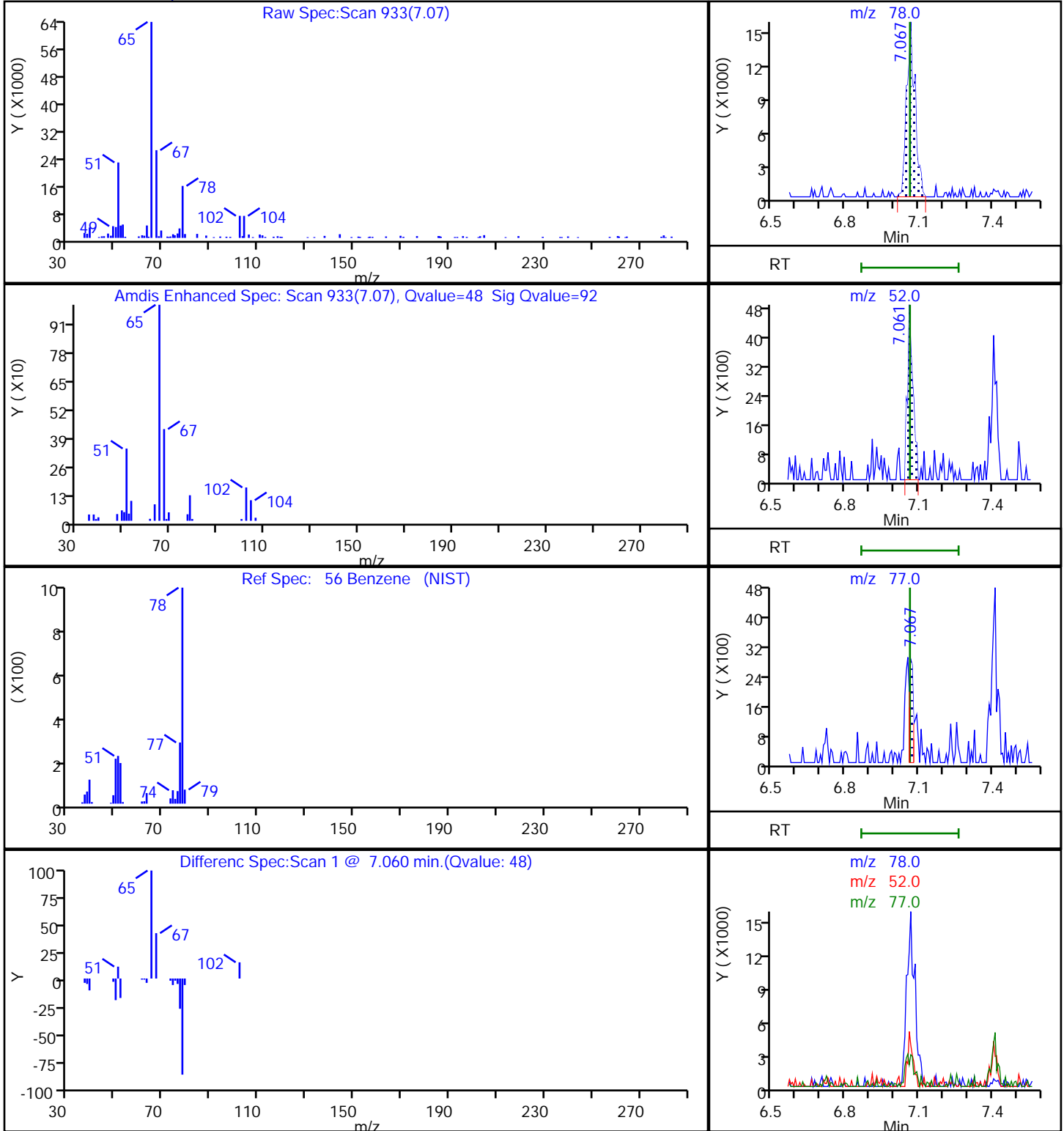
43 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101922.D
Injection Date: 19-Oct-2019 22:40:30 Instrument ID: CHHP6
Lims ID: 180-97133-C-6 Lab Sample ID: 180-97133-6
Client ID: HD-MW-115-0/1-0
Operator ID: 433269 ALS Bottle#: 16 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 10.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

56 Benzene, CAS: 71-43-2

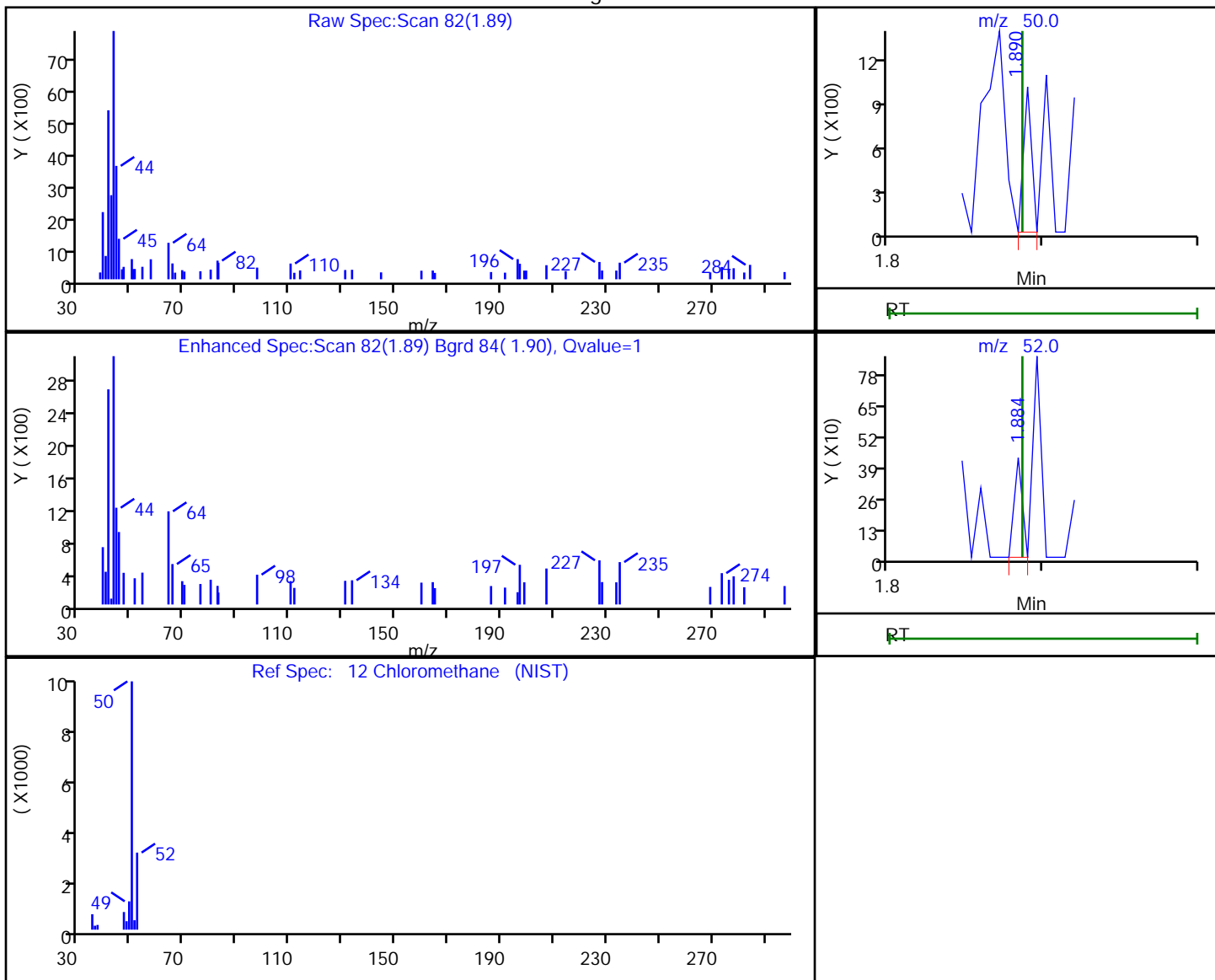


Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101922.D
 Injection Date: 19-Oct-2019 22:40:30 Instrument ID: CHHP6
 Lims ID: 180-97133-C-6 Lab Sample ID: 180-97133-6
 Client ID: HD-MW-115-0/1-0
 Operator ID: 433269 ALS Bottle#: 16 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 10.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

12 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
1.89	50.00	349	0.092854
1.88	52.00	155	

Reviewer: bowieh, 22-Oct-2019 09:59:09

Audit Action: Marked Compound Undetected

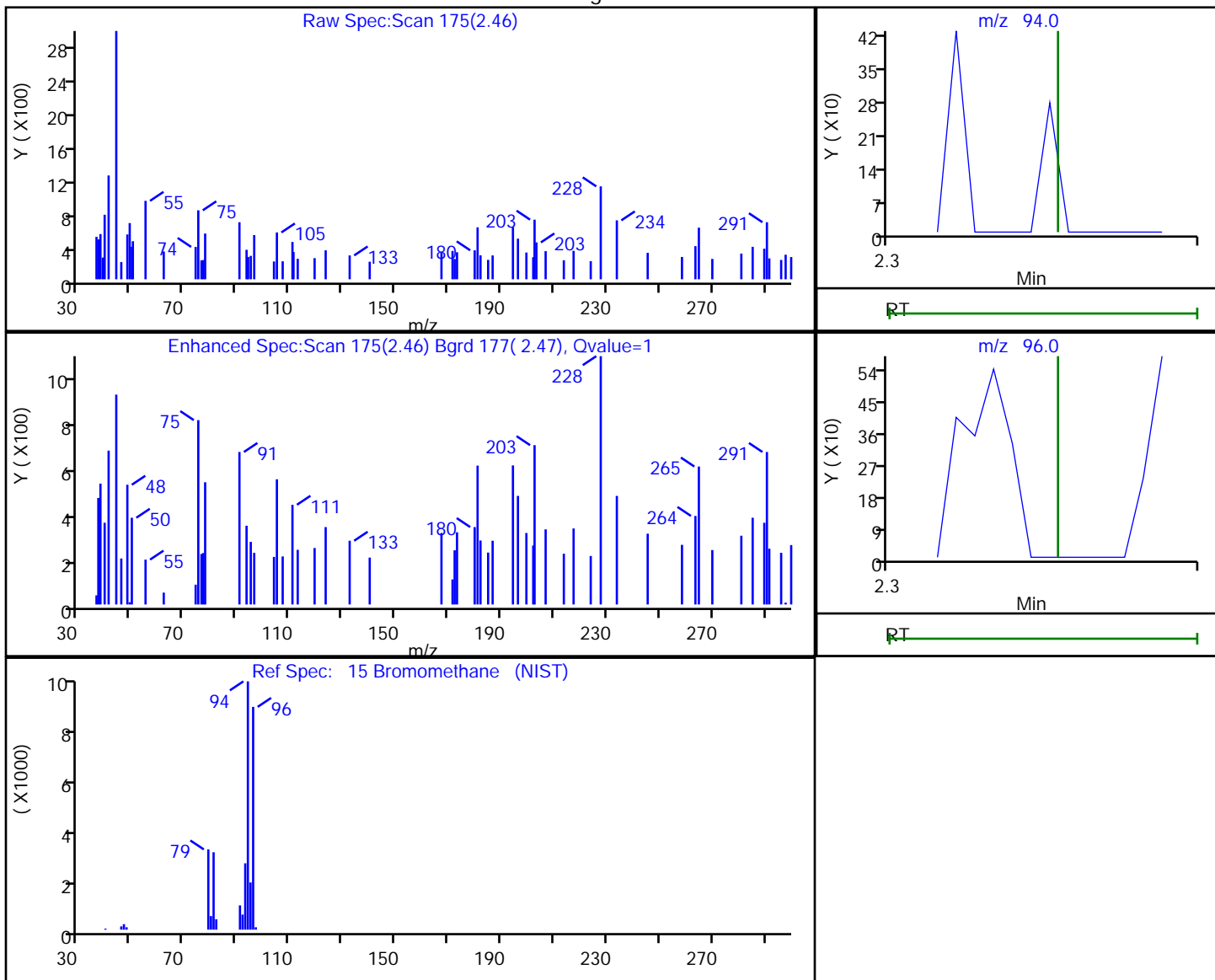
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101922.D
Injection Date: 19-Oct-2019 22:40:30 Instrument ID: CHHP6
Lims ID: 180-97133-C-6 Lab Sample ID: 180-97133-6
Client ID: HD-MW-115-0/1-0
Operator ID: 433269 ALS Bottle#: 16 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 10.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

15 Bromomethane, CAS: 74-83-9

Processing Results



RT	Mass	Response	Amount
2.46	94.00	96	0.071307
2.46	96.00	190	

Reviewer: bowieh, 22-Oct-2019 09:59:11

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

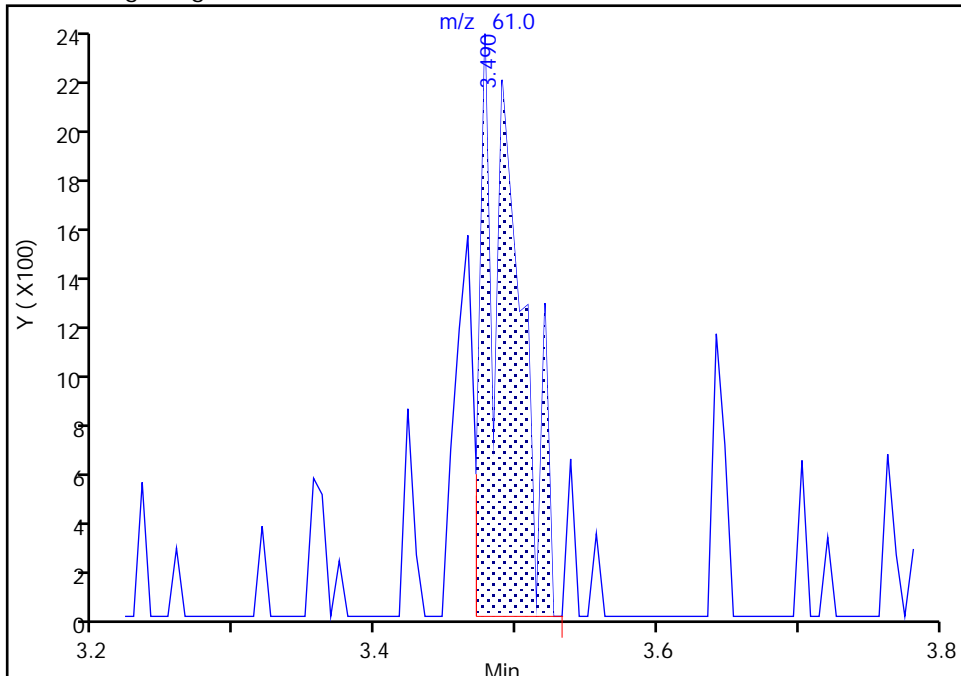
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Injection Date: 19-Oct-2019 22:40:30 Instrument ID: CHHP6
Lims ID: 180-97133-C-6 Lab Sample ID: 180-97133-6
Client ID: HD-MW-115-0/1-0
Operator ID: 433269 ALS Bottle#: 16 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 10.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

22 1,1-Dichloroethene, CAS: 75-35-4

Signal: 2

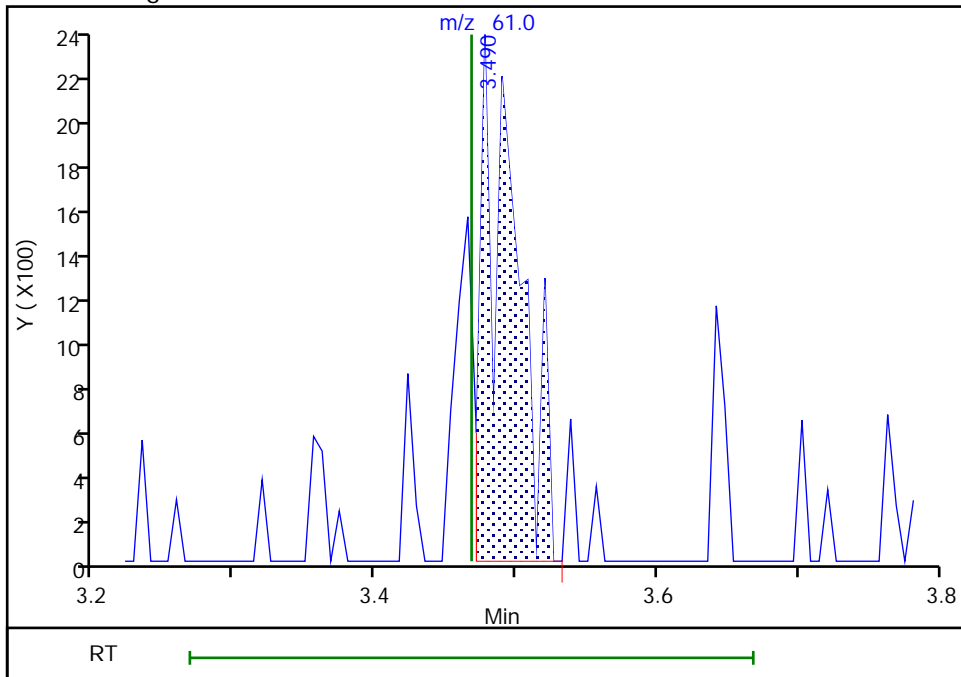
RT: 3.49
Area: 4028
Amount: 1.463388
Amount Units: ng

Processing Integration Results



RT: 3.49
Area: 4028
Amount: 1.463388
Amount Units: ng

Manual Integration Results



Eurofins TestAmerica, Pittsburgh

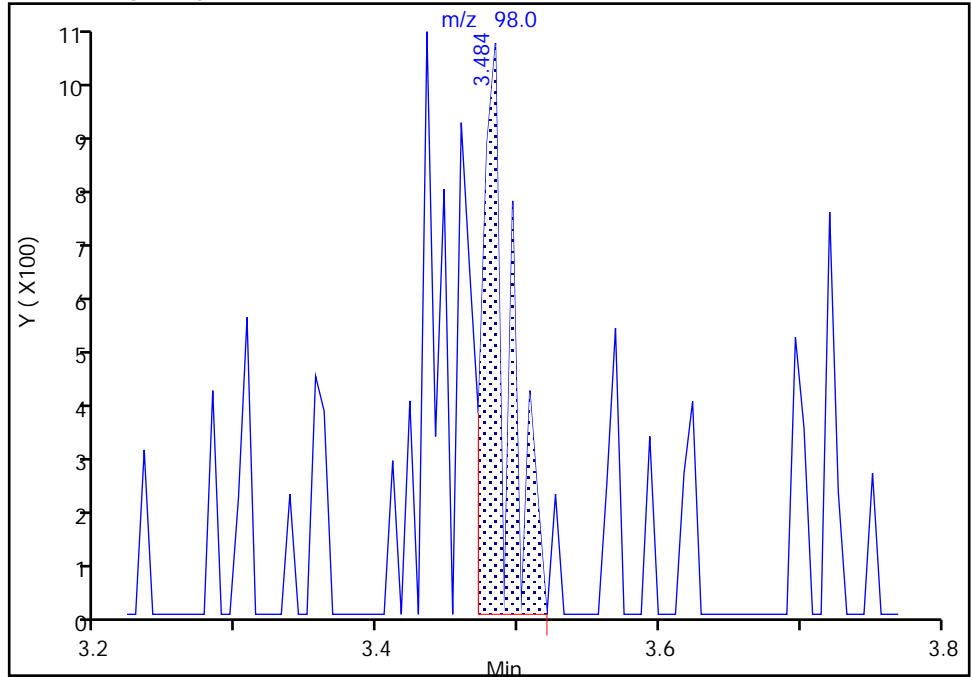
Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101922.D
Injection Date: 19-Oct-2019 22:40:30 Instrument ID: CHHP6
Lims ID: 180-97133-C-6 Lab Sample ID: 180-97133-6
Client ID: HD-MW-115-0/1-0
Operator ID: 433269 ALS Bottle#: 16 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 10.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

22 1,1-Dichloroethene, CAS: 75-35-4

Signal: 3

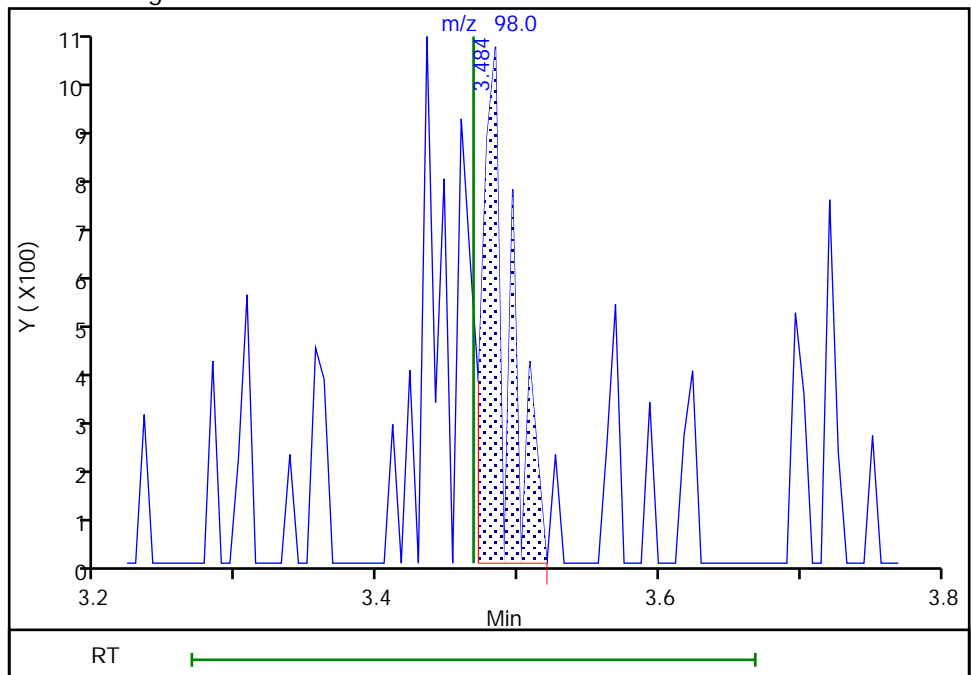
RT: 3.48
Area: 1347
Amount: 1.463388
Amount Units: ng

Processing Integration Results



Manual Integration Results

RT: 3.48
Area: 1347
Amount: 1.463388
Amount Units: ng

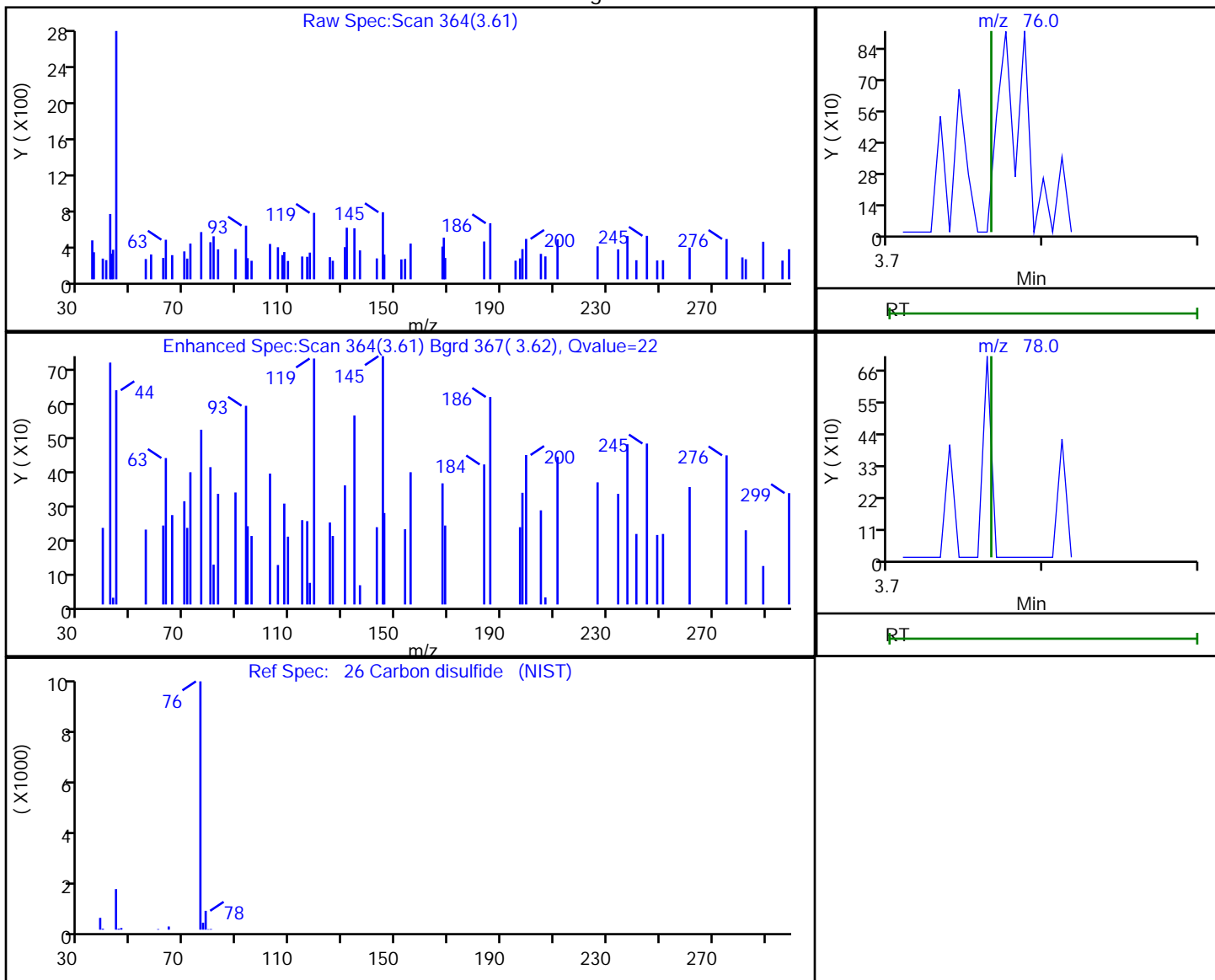


Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101922.D
Injection Date: 19-Oct-2019 22:40:30 Instrument ID: CHHP6
Lims ID: 180-97133-C-6 Lab Sample ID: 180-97133-6
Client ID: HD-MW-115-0/1-0
Operator ID: 433269 ALS Bottle#: 16 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 10.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

26 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
3.61	76.00	346	0.059893
3.61	78.00	335	

Reviewer: bowieh, 22-Oct-2019 09:59:22

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

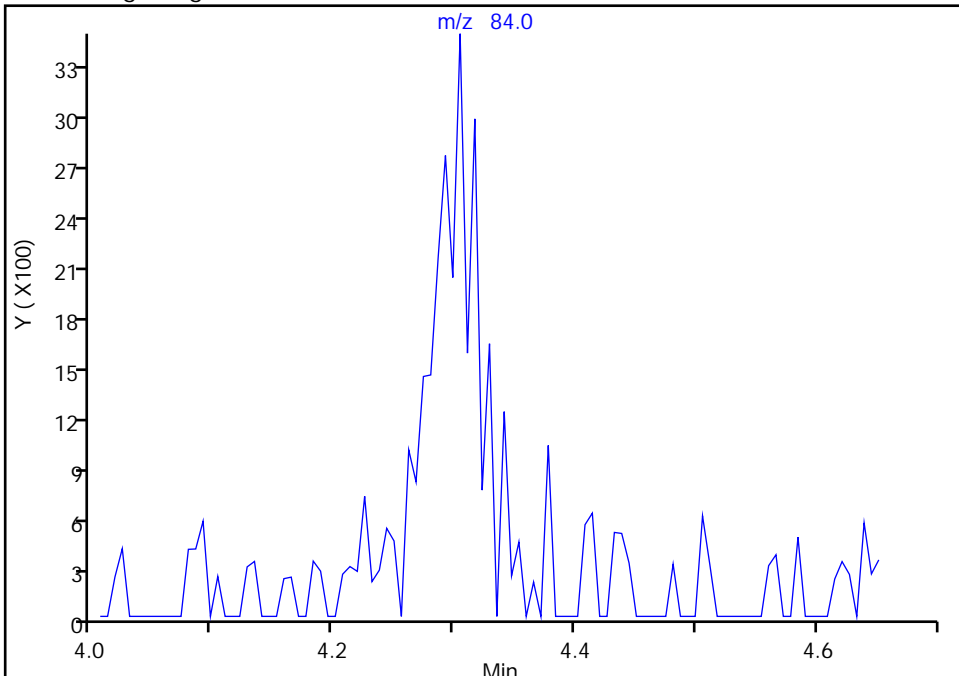
Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101922.D
Injection Date: 19-Oct-2019 22:40:30 Instrument ID: CHHP6
Lims ID: 180-97133-C-6 Lab Sample ID: 180-97133-6
Client ID: HD-MW-115-0/1-0
Operator ID: 433269 ALS Bottle#: 16 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 10.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

31 Methylene Chloride, CAS: 75-09-2

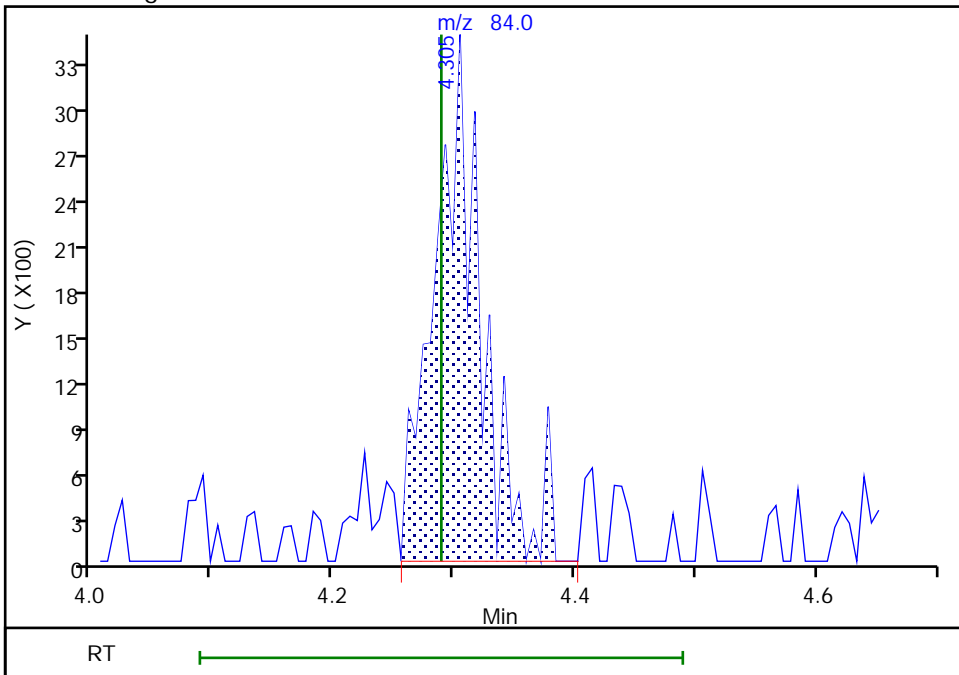
Signal: 1

Not Detected
Expected RT: 4.29

Processing Integration Results



Manual Integration Results



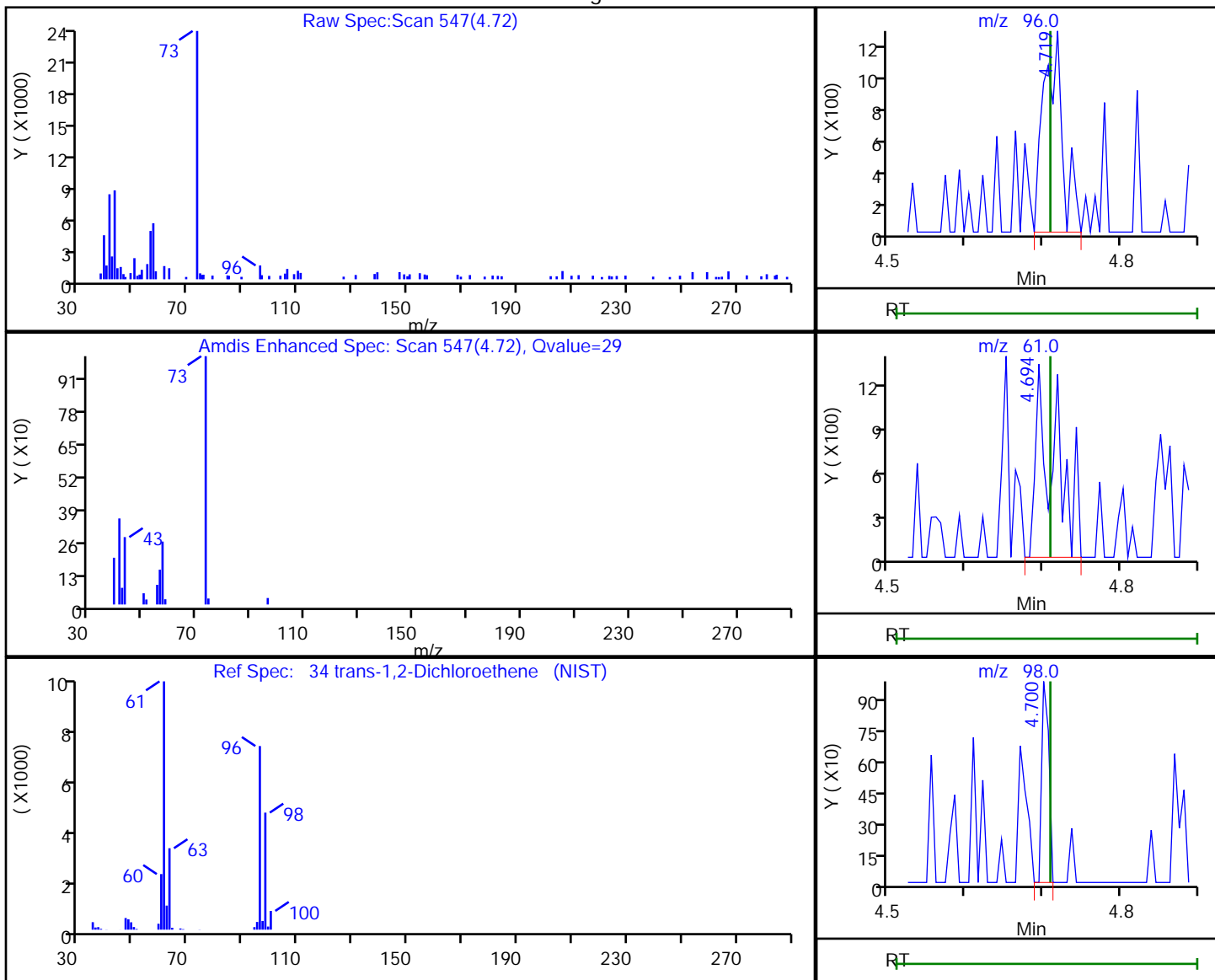
RT: 4.30
Area: 9001
Amount: 0.751576
Amount Units: ng

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101922.D
 Injection Date: 19-Oct-2019 22:40:30 Instrument ID: CHHP6
 Lims ID: 180-97133-C-6 Lab Sample ID: 180-97133-6
 Client ID: HD-MW-115-0/1-0
 Operator ID: 433269 ALS Bottle#: 16 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 10.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

34 trans-1,2-Dichloroethene, CAS: 156-60-5

Processing Results



RT	Mass	Response	Amount
4.72	96.00	2213	0.863247
4.69	61.00	2331	
4.70	98.00	630	

Reviewer: bowieh, 22-Oct-2019 10:01:07

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

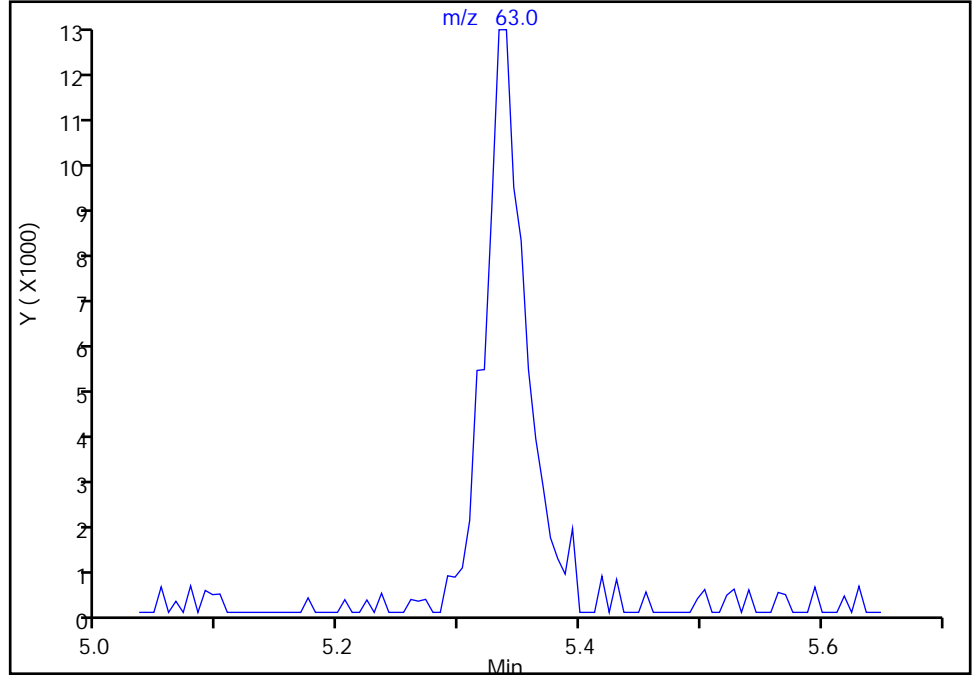
Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101922.D
Injection Date: 19-Oct-2019 22:40:30 Instrument ID: CHHP6
Lims ID: 180-97133-C-6 Lab Sample ID: 180-97133-6
Client ID: HD-MW-115-0/1-0
Operator ID: 433269 ALS Bottle#: 16 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 10.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

37 1,1-Dichloroethane, CAS: 75-34-3

Signal: 1

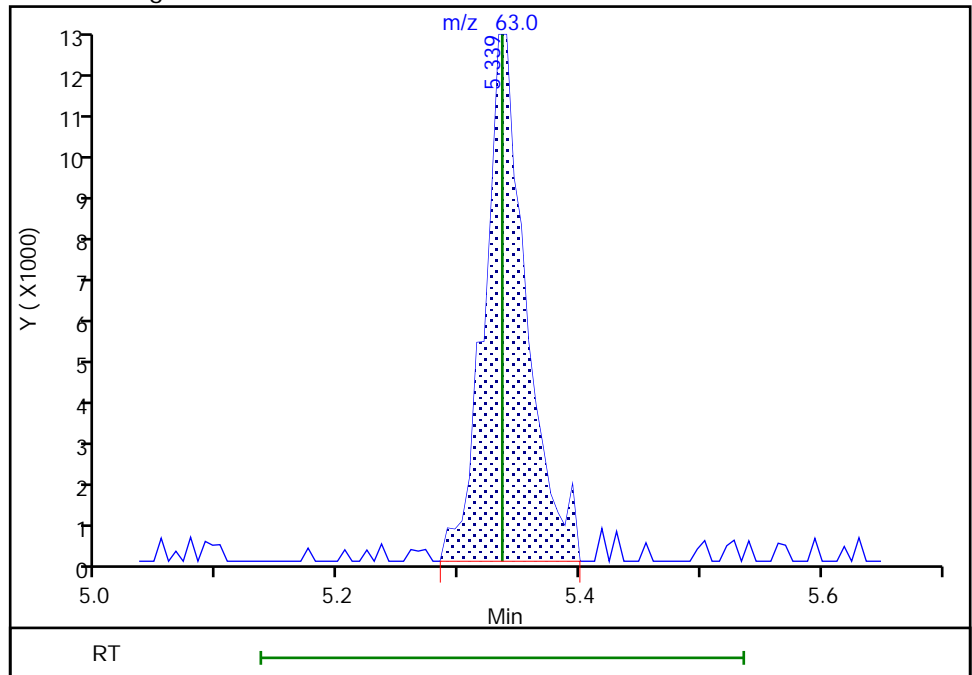
Not Detected
Expected RT: 5.34

Processing Integration Results



Manual Integration Results

RT: 5.34
Area: 29888
Amount: 6.672973
Amount Units: ng



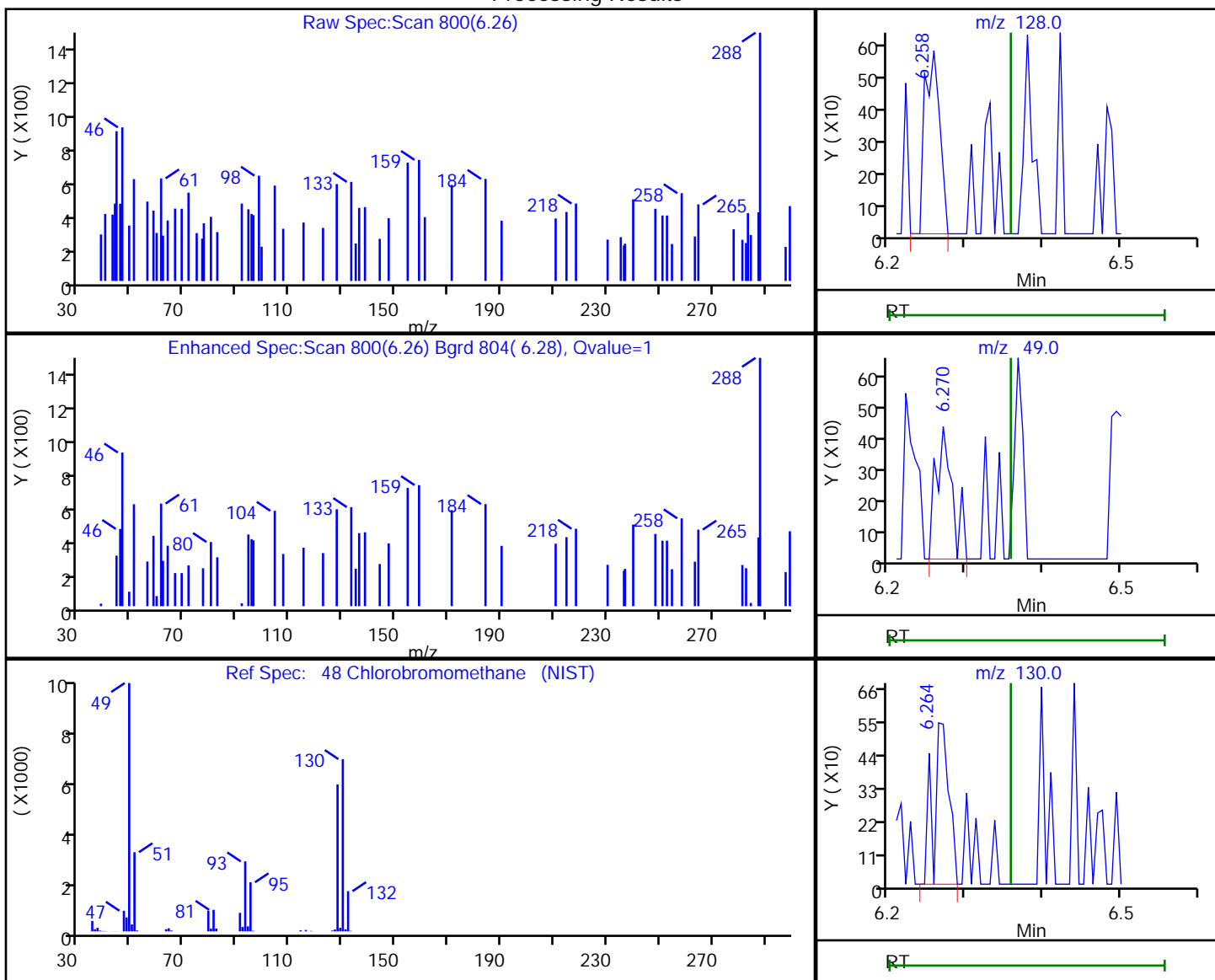
Reviewer: bowieh, 22-Oct-2019 10:01:20
Audit Action: Manually Integrated

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101922.D
 Injection Date: 19-Oct-2019 22:40:30 Instrument ID: CHHP6
 Lims ID: 180-97133-C-6 Lab Sample ID: 180-97133-6
 Client ID: HD-MW-115-0/1-0
 Operator ID: 433269 ALS Bottle#: 16 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 10.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

48 Chlorobromomethane, CAS: 74-97-5

Processing Results



RT	Mass	Response	Amount
6.26	128.00	774	0.637102
6.27	49.00	642	
6.26	130.00	752	

Reviewer: bowieh, 22-Oct-2019 10:01:29

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Euofins TestAmerica, Pittsburgh

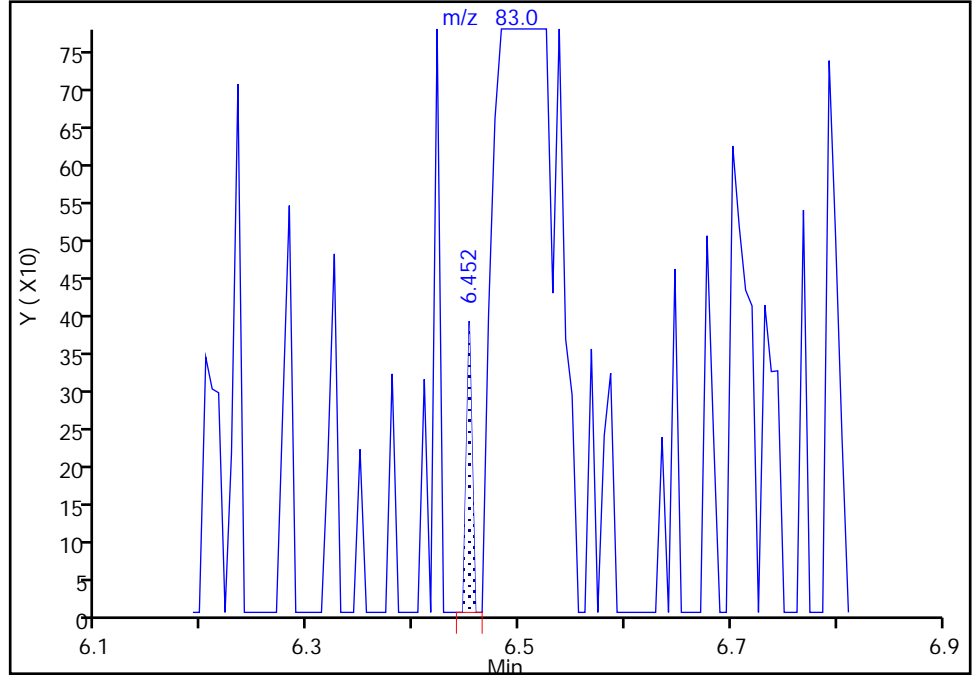
Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101922.D
Injection Date: 19-Oct-2019 22:40:30 Instrument ID: CHHP6
Lims ID: 180-97133-C-6 Lab Sample ID: 180-97133-6
Client ID: HD-MW-115-0/1-0
Operator ID: 433269 ALS Bottle#: 16 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 10.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

50 Chloroform, CAS: 67-66-3

Signal: 1

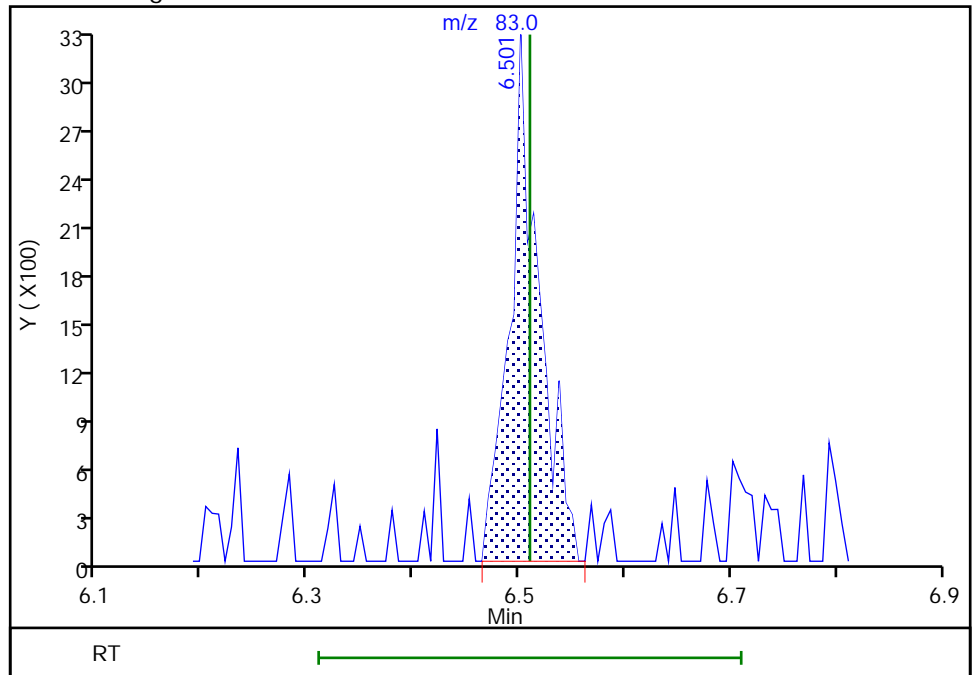
RT: 6.45
Area: 141
Amount: 0.030497
Amount Units: ng

Processing Integration Results



RT: 6.50
Area: 6288
Amount: 1.360019
Amount Units: ng

Manual Integration Results

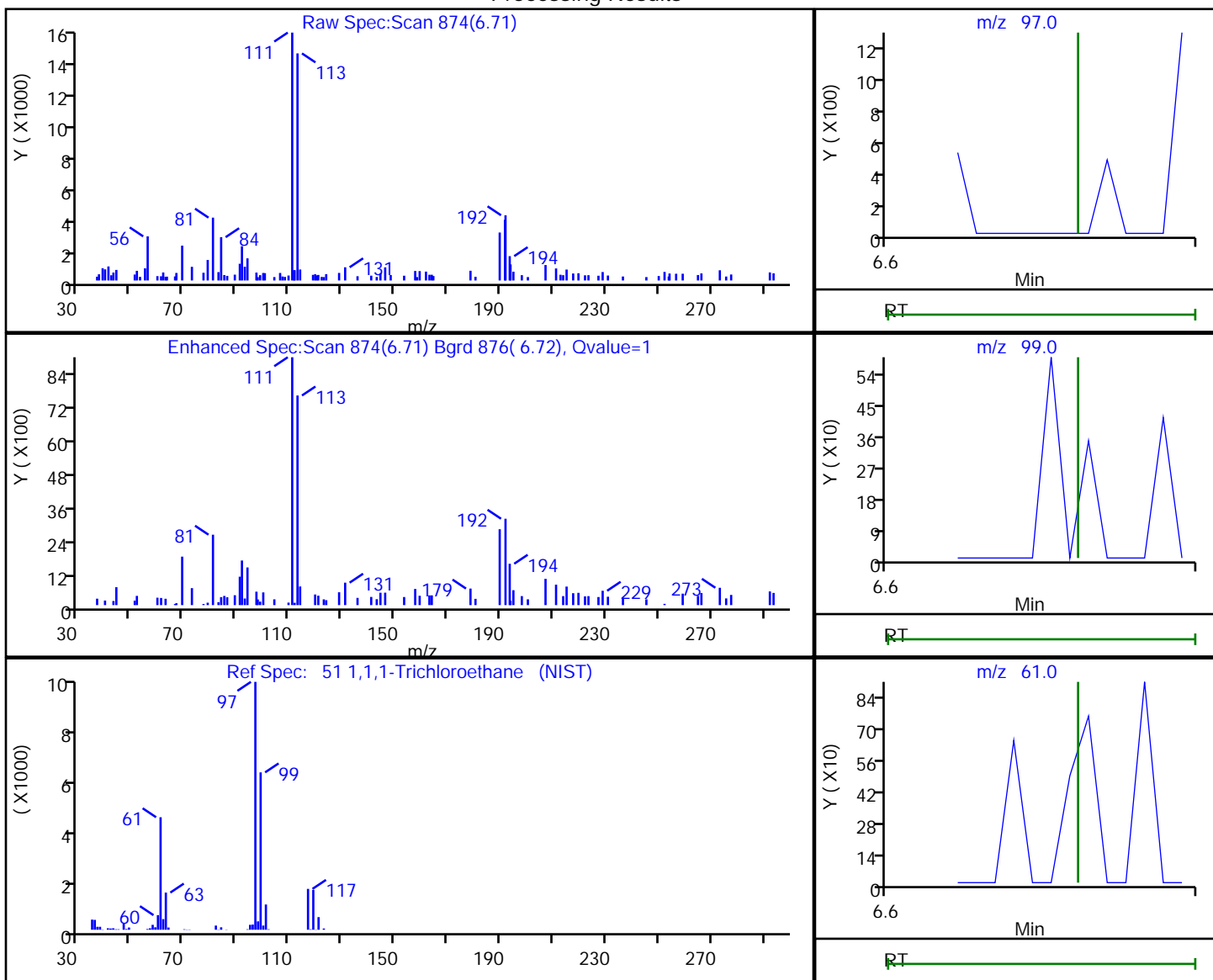


Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101922.D
 Injection Date: 19-Oct-2019 22:40:30 Instrument ID: CHHP6
 Lims ID: 180-97133-C-6 Lab Sample ID: 180-97133-6
 Client ID: HD-MW-115-0/1-0
 Operator ID: 433269 ALS Bottle#: 16 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 10.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

51 1,1,1-Trichloroethane, CAS: 71-55-6

Processing Results



RT	Mass	Response	Amount
6.71	97.00	177	0.045158
6.70	99.00	287	
6.71	61.00	312	

Reviewer: bowieh, 22-Oct-2019 10:01:36

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

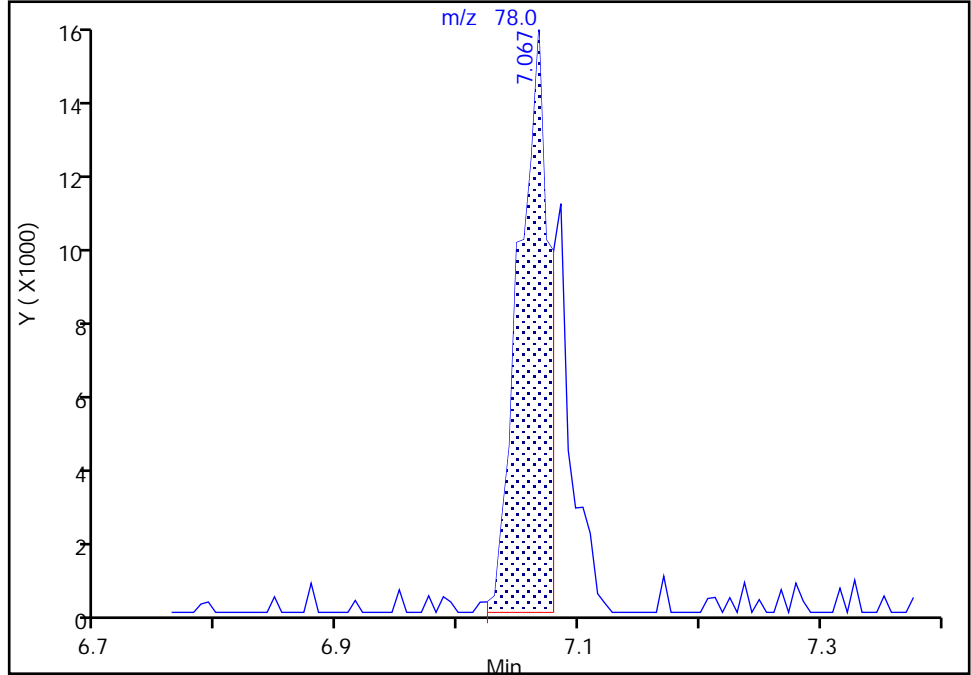
Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101922.D
Injection Date: 19-Oct-2019 22:40:30 Instrument ID: CHHP6
Lims ID: 180-97133-C-6 Lab Sample ID: 180-97133-6
Client ID: HD-MW-115-0/1-0
Operator ID: 433269 ALS Bottle#: 16 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 10.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

56 Benzene, CAS: 71-43-2

Signal: 1

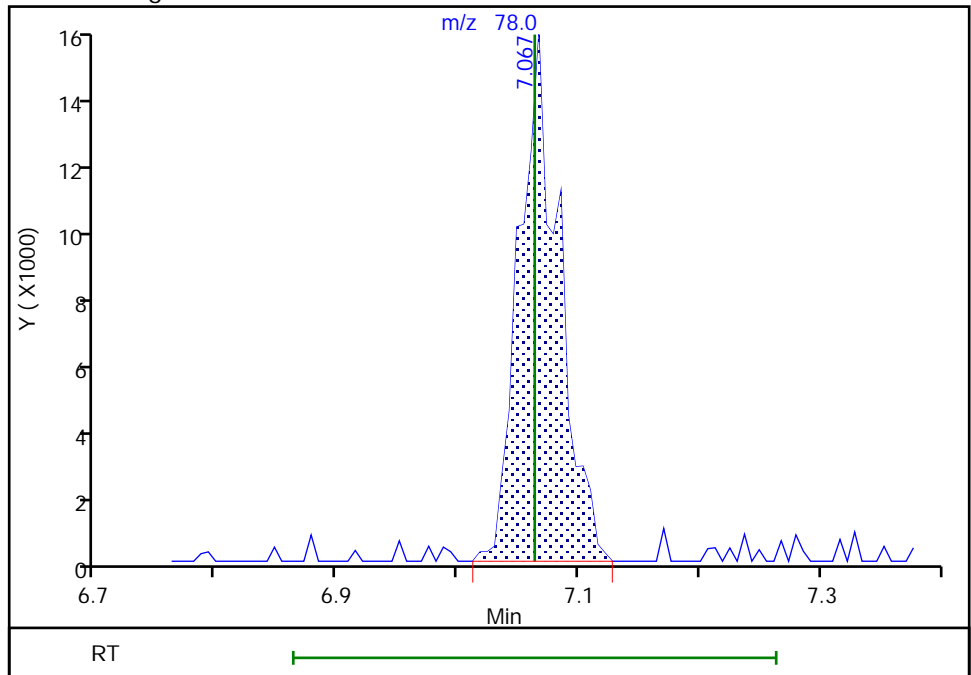
RT: 7.07
Area: 26945
Amount: 2.914235
Amount Units: ng

Processing Integration Results



RT: 7.07
Area: 35568
Amount: 3.846855
Amount Units: ng

Manual Integration Results

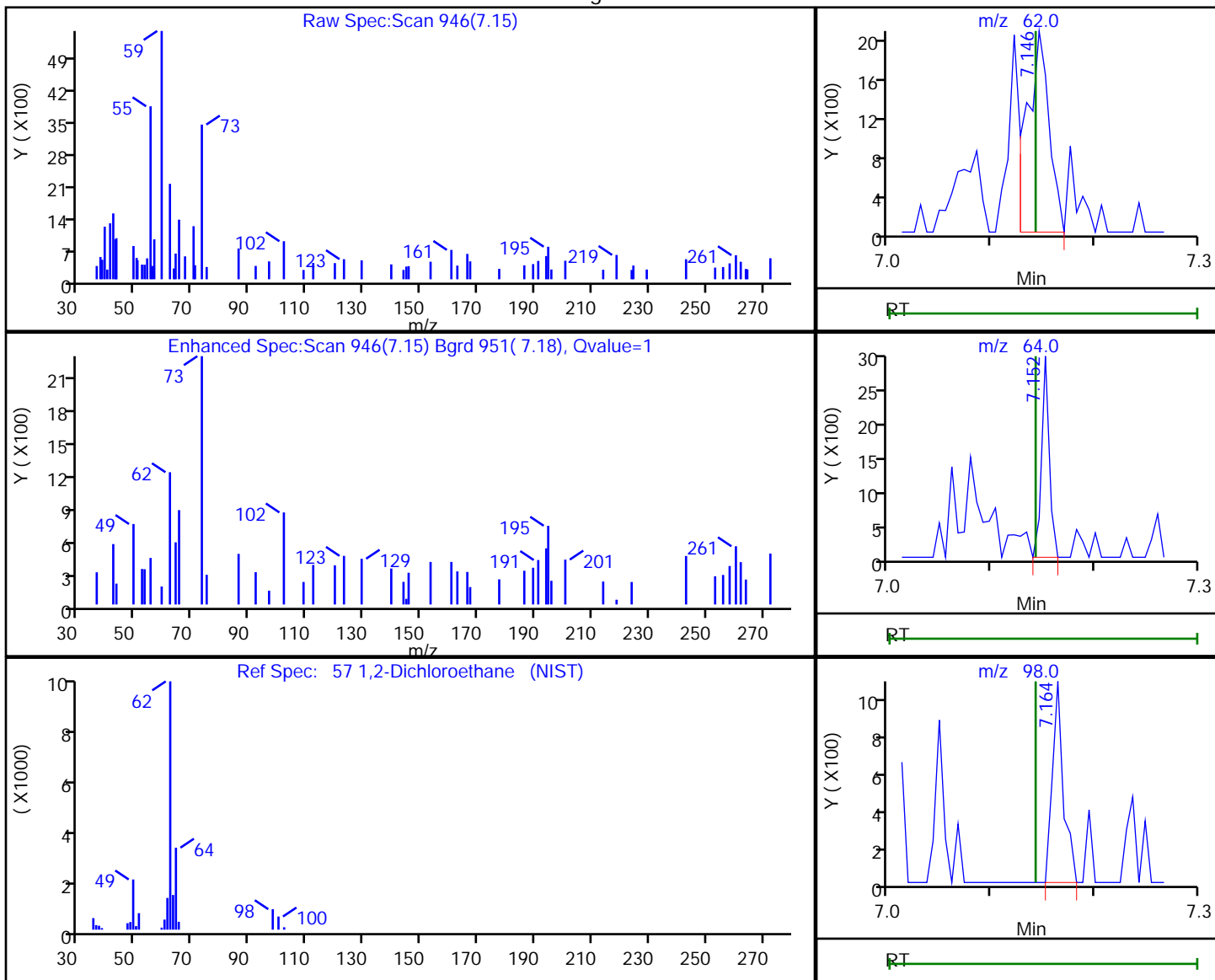


Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101922.D
 Injection Date: 19-Oct-2019 22:40:30 Instrument ID: CHHP6
 Lims ID: 180-97133-C-6 Lab Sample ID: 180-97133-6
 Client ID: HD-MW-115-0/1-0
 Operator ID: 433269 ALS Bottle#: 16 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 10.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

57 1,2-Dichloroethane, CAS: 107-06-2

Processing Results



RT	Mass	Response	Amount
7.15	62.00	3129	0.746893
7.15	64.00	1525	
7.16	98.00	772	

Reviewer: bowieh, 22-Oct-2019 10:02:13

Audit Action: Marked Compound Undetected

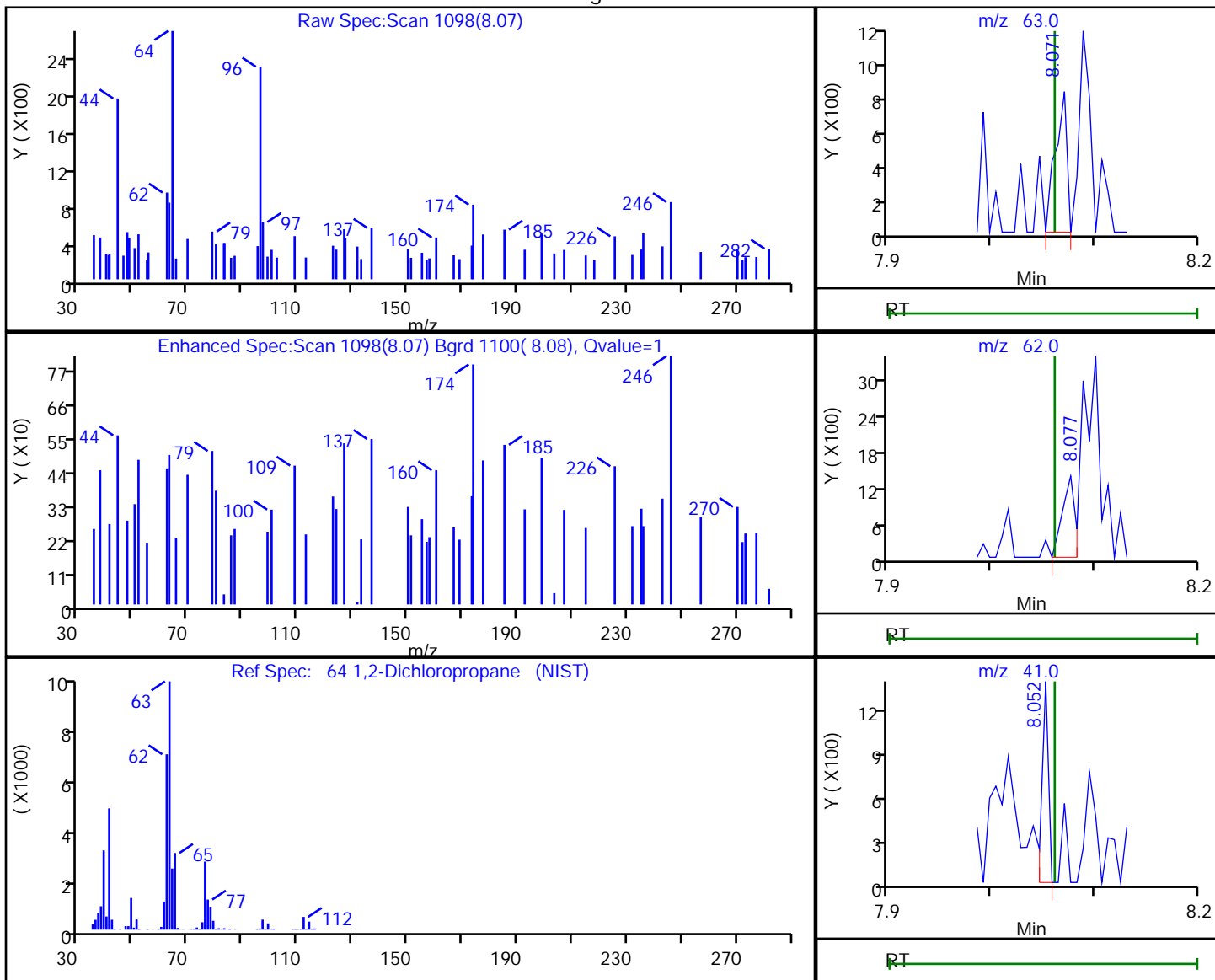
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101922.D
 Injection Date: 19-Oct-2019 22:40:30 Instrument ID: CHHP6
 Lims ID: 180-97133-C-6 Lab Sample ID: 180-97133-6
 Client ID: HD-MW-115-0/1-0
 Operator ID: 433269 ALS Bottle#: 16 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 10.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

64 1,2-Dichloropropane, CAS: 78-87-5

Processing Results



RT	Mass	Response	Amount
8.07	63.00	627	0.284161
8.08	62.00	1153	
8.05	41.00	559	

Reviewer: bowieh, 22-Oct-2019 10:02:23

Audit Action: Marked Compound Undetected

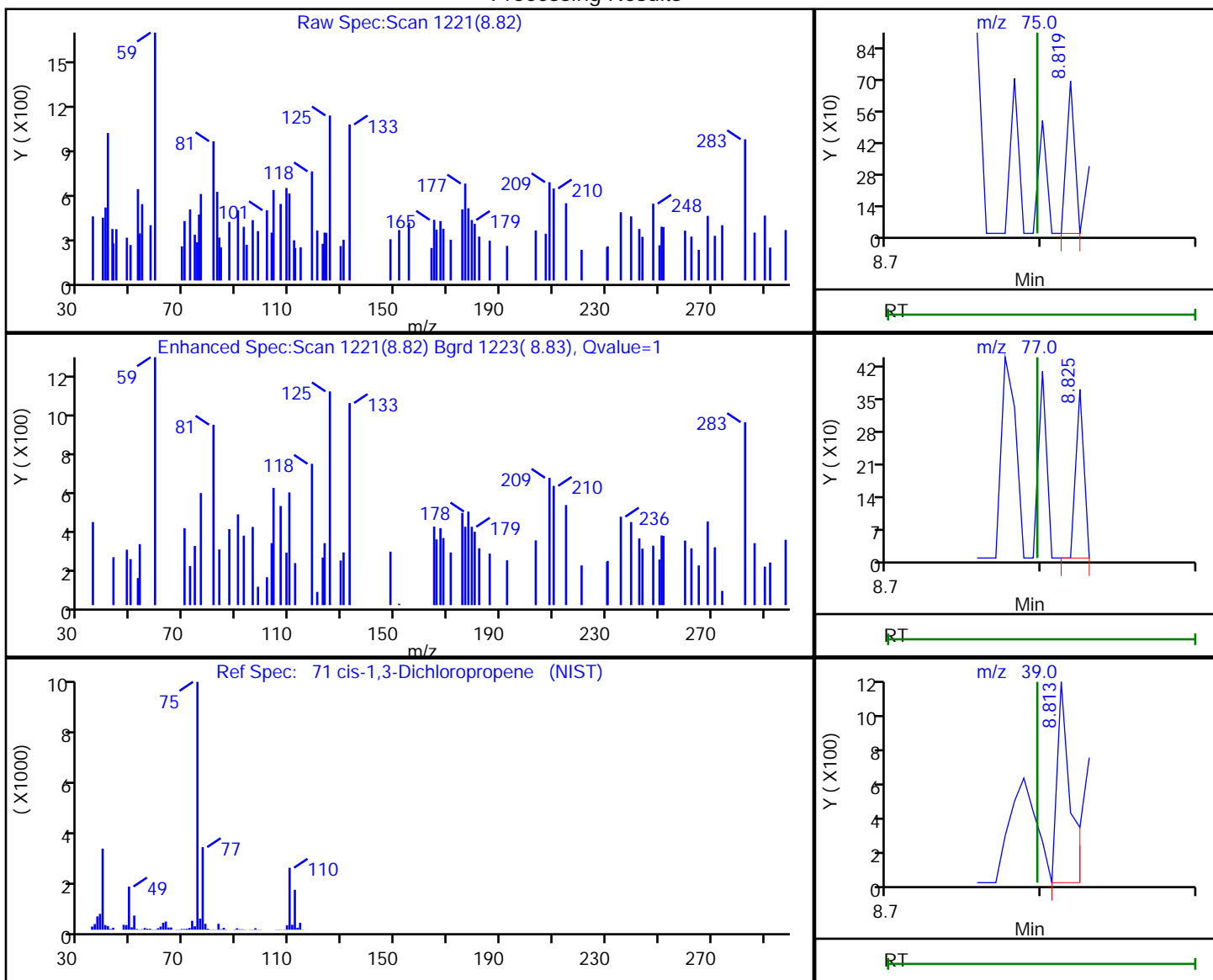
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101922.D
 Injection Date: 19-Oct-2019 22:40:30 Instrument ID: CHHP6
 Lims ID: 180-97133-C-6 Lab Sample ID: 180-97133-6
 Client ID: HD-MW-115-0/1-0
 Operator ID: 433269 ALS Bottle#: 16 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 10.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

71 cis-1,3-Dichloropropene, CAS: 10061-01-5

Processing Results



RT	Mass	Response	Amount
8.82	75.00	250	0.086818
8.82	77.00	132	
8.81	39.00	703	

Reviewer: bowieh, 22-Oct-2019 10:02:26

Audit Action: Marked Compound Undetected

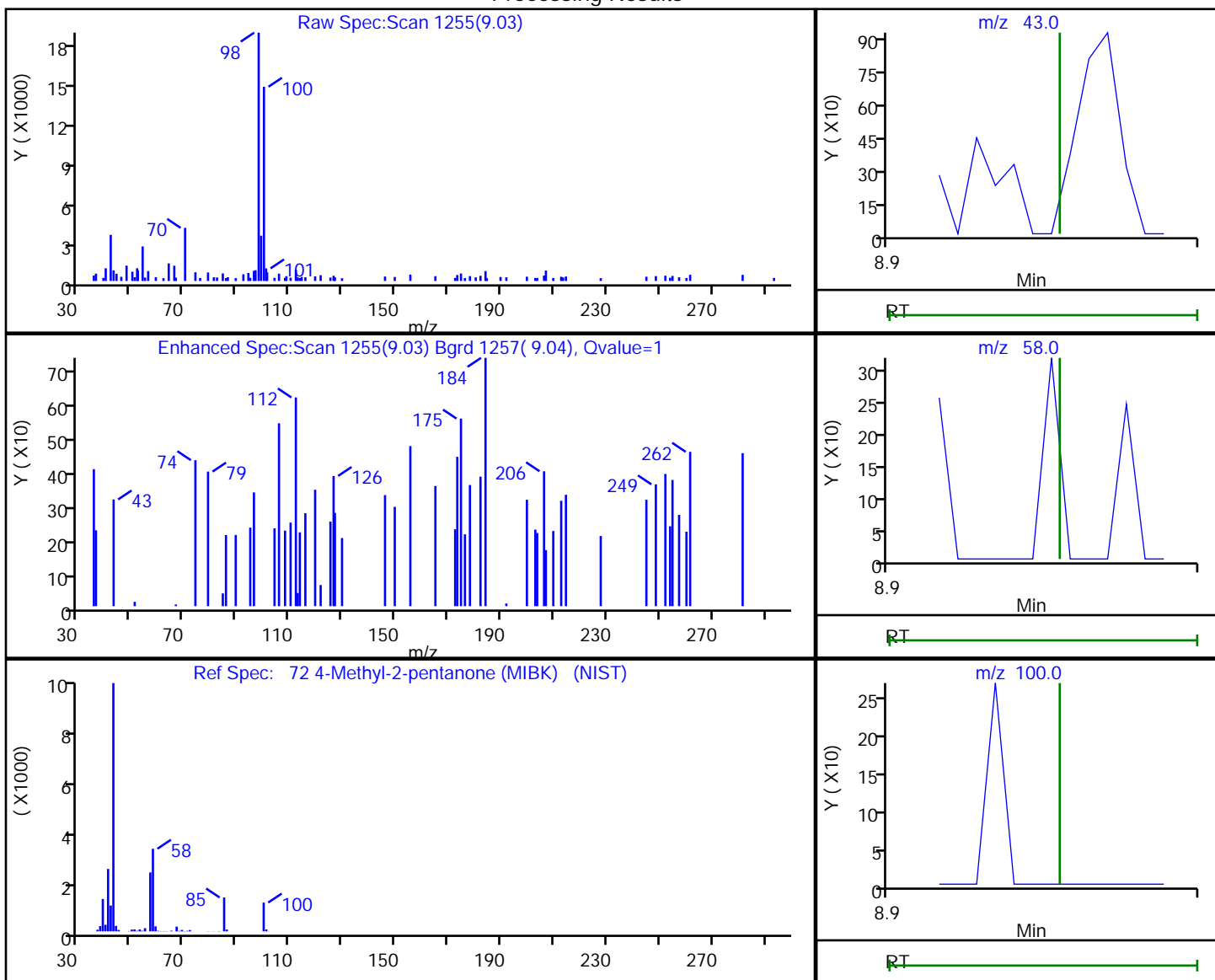
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101922.D
 Injection Date: 19-Oct-2019 22:40:30 Instrument ID: CHHP6
 Lims ID: 180-97133-C-6 Lab Sample ID: 180-97133-6
 Client ID: HD-MW-115-0/1-0
 Operator ID: 433269 ALS Bottle#: 16 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 10.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

72 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
9.03	43.00	289	0.157773
9.02	58.00	478	
8.96	100.00	0	

Reviewer: bowieh, 22-Oct-2019 10:02:32

Audit Action: Marked Compound Undetected

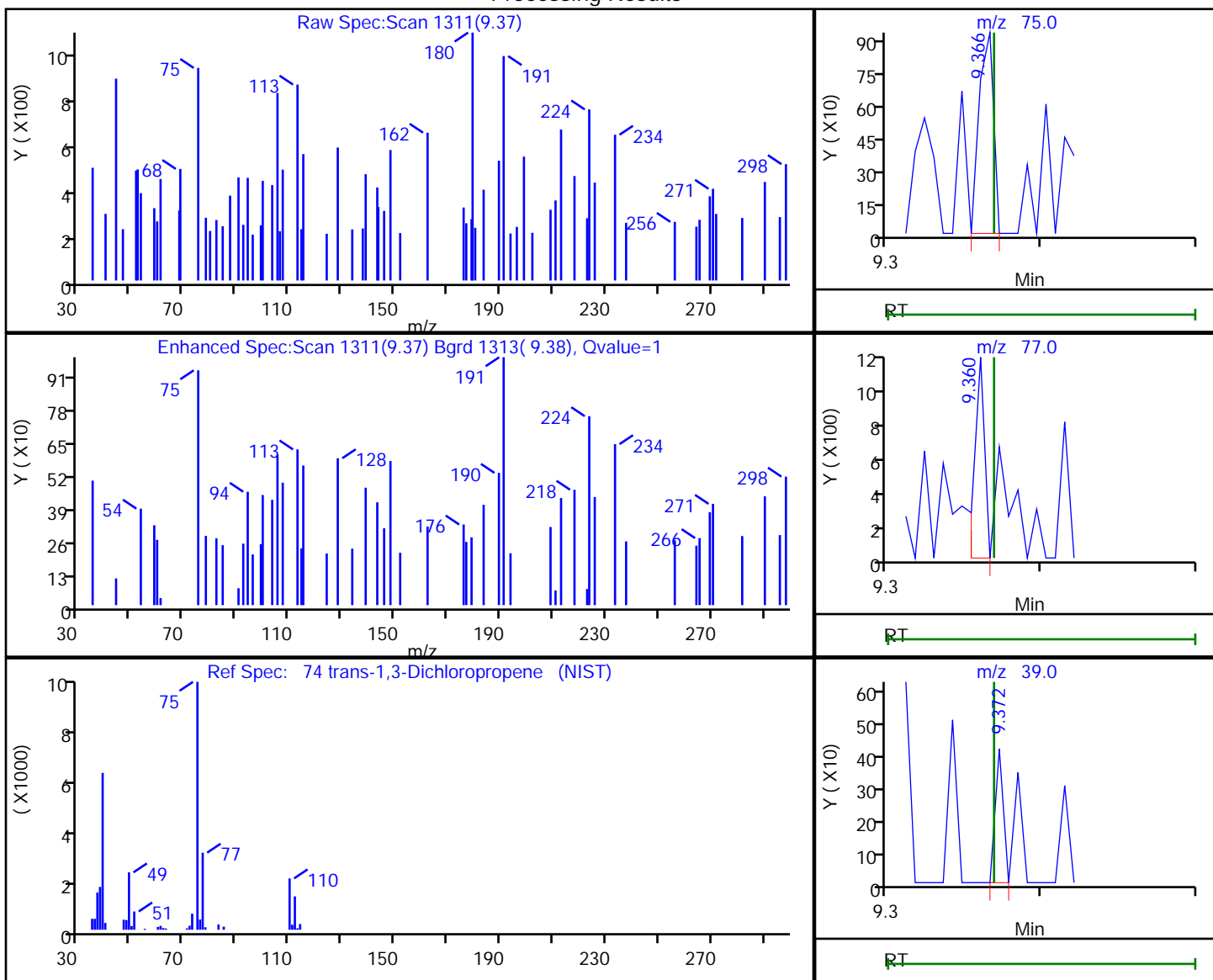
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101922.D
 Injection Date: 19-Oct-2019 22:40:30 Instrument ID: CHHP6
 Lims ID: 180-97133-C-6 Lab Sample ID: 180-97133-6
 Client ID: HD-MW-115-0/1-0
 Operator ID: 433269 ALS Bottle#: 16 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 10.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

74 trans-1,3-Dichloropropene, CAS: 10061-02-6

Processing Results



RT	Mass	Response	Amount
9.37	75.00	602	1.977843
9.36	77.00	494	
9.37	39.00	153	

Reviewer: bowieh, 22-Oct-2019 10:02:39

Audit Action: Marked Compound Undetected

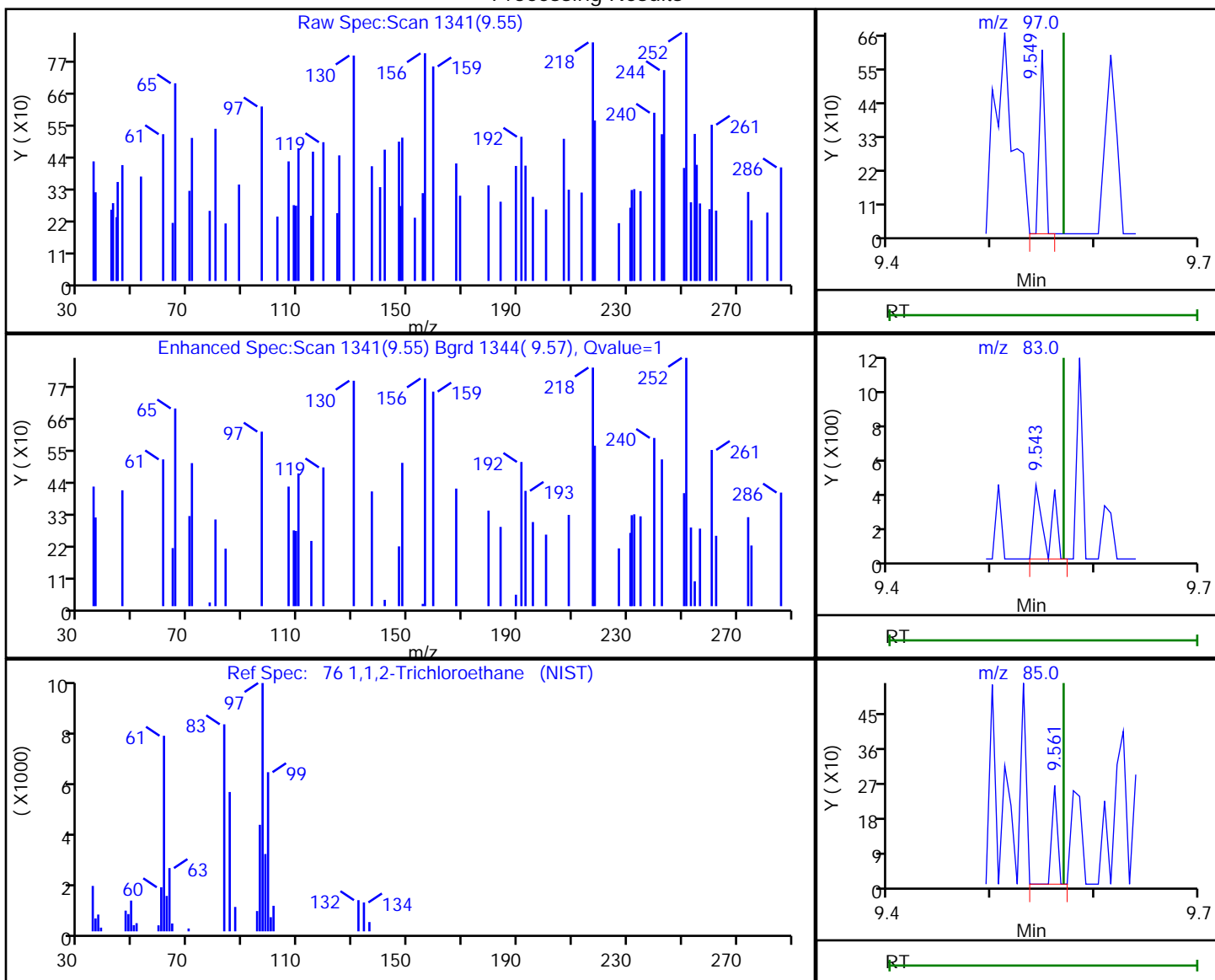
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101922.D
 Injection Date: 19-Oct-2019 22:40:30 Instrument ID: CHHP6
 Lims ID: 180-97133-C-6 Lab Sample ID: 180-97133-6
 Client ID: HD-MW-115-0/1-0
 Operator ID: 433269 ALS Bottle#: 16 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 10.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

76 1,1,2-Trichloroethane, CAS: 79-00-5

Processing Results



RT	Mass	Response	Amount
9.55	97.00	223	0.124320
9.54	83.00	371	
9.56	85.00	94	

Reviewer: bowieh, 22-Oct-2019 10:02:41

Audit Action: Marked Compound Undetected

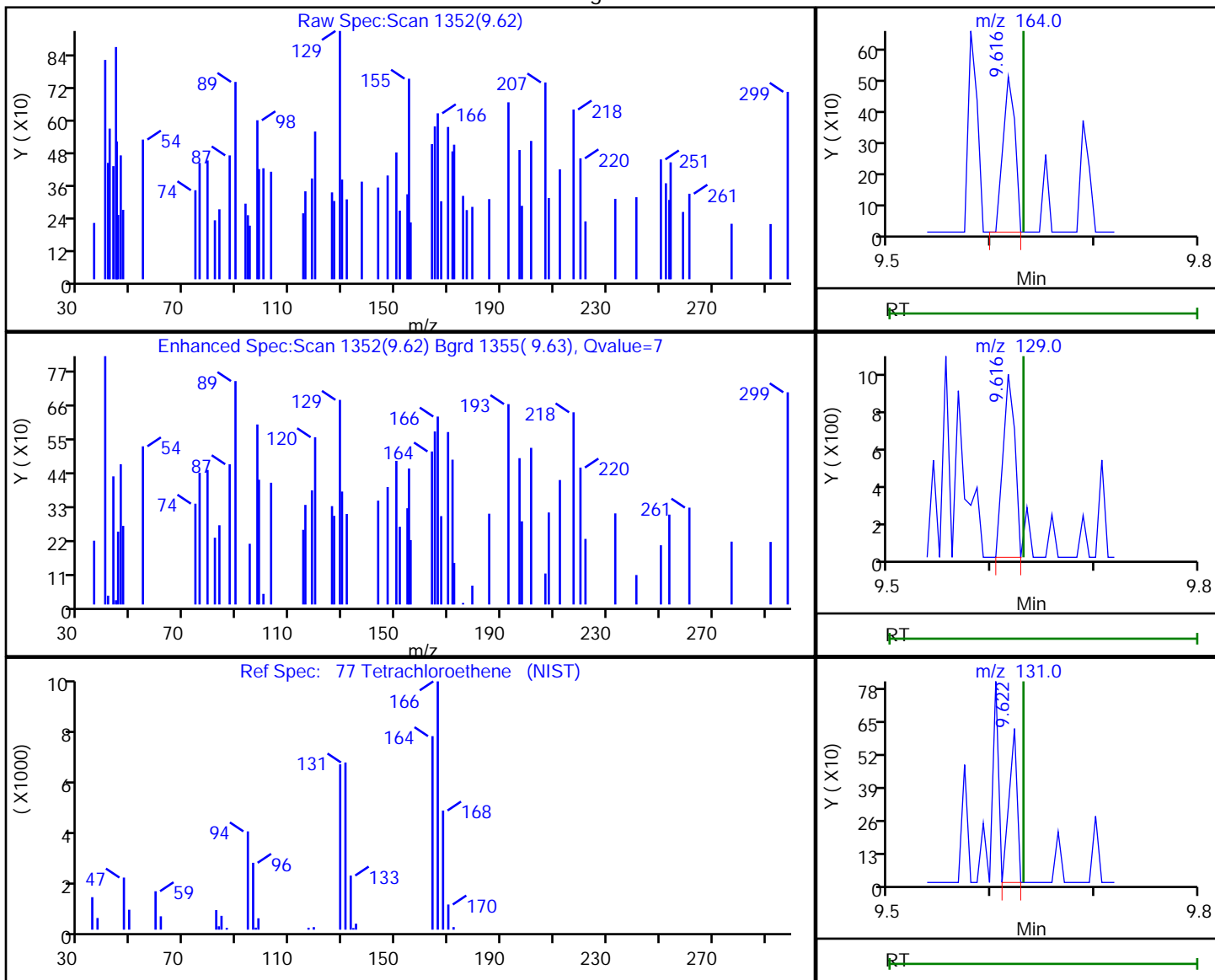
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101922.D
 Injection Date: 19-Oct-2019 22:40:30 Instrument ID: CHHP6
 Lims ID: 180-97133-C-6 Lab Sample ID: 180-97133-6
 Client ID: HD-MW-115-0/1-0
 Operator ID: 433269 ALS Bottle#: 16 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 10.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

77 Tetrachloroethene, CAS: 127-18-4

Processing Results



RT	Mass	Response	Amount
9.62	164.00	408	0.199565
9.62	129.00	738	
9.62	131.00	333	

Reviewer: bowieh, 22-Oct-2019 10:02:42

Audit Action: Marked Compound Undetected

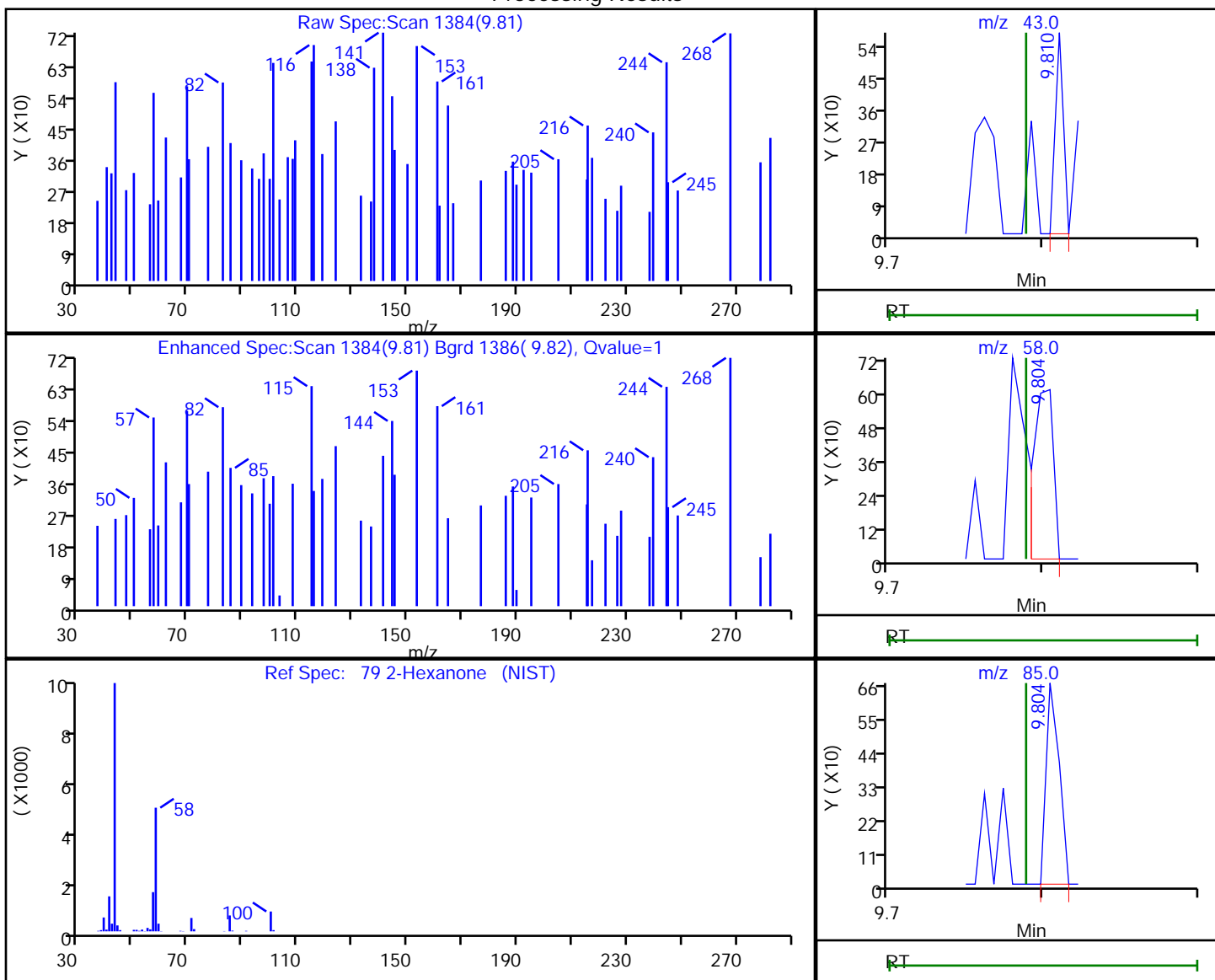
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101922.D
 Injection Date: 19-Oct-2019 22:40:30 Instrument ID: CHHP6
 Lims ID: 180-97133-C-6 Lab Sample ID: 180-97133-6
 Client ID: HD-MW-115-0/1-0
 Operator ID: 433269 ALS Bottle#: 16 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 10.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

79 2-Hexanone, CAS: 591-78-6

Processing Results



RT	Mass	Response	Amount
9.81	43.00	211	0.140210
9.80	58.00	561	
9.80	85.00	389	

Reviewer: bowieh, 22-Oct-2019 10:02:43

Audit Action: Marked Compound Undetected

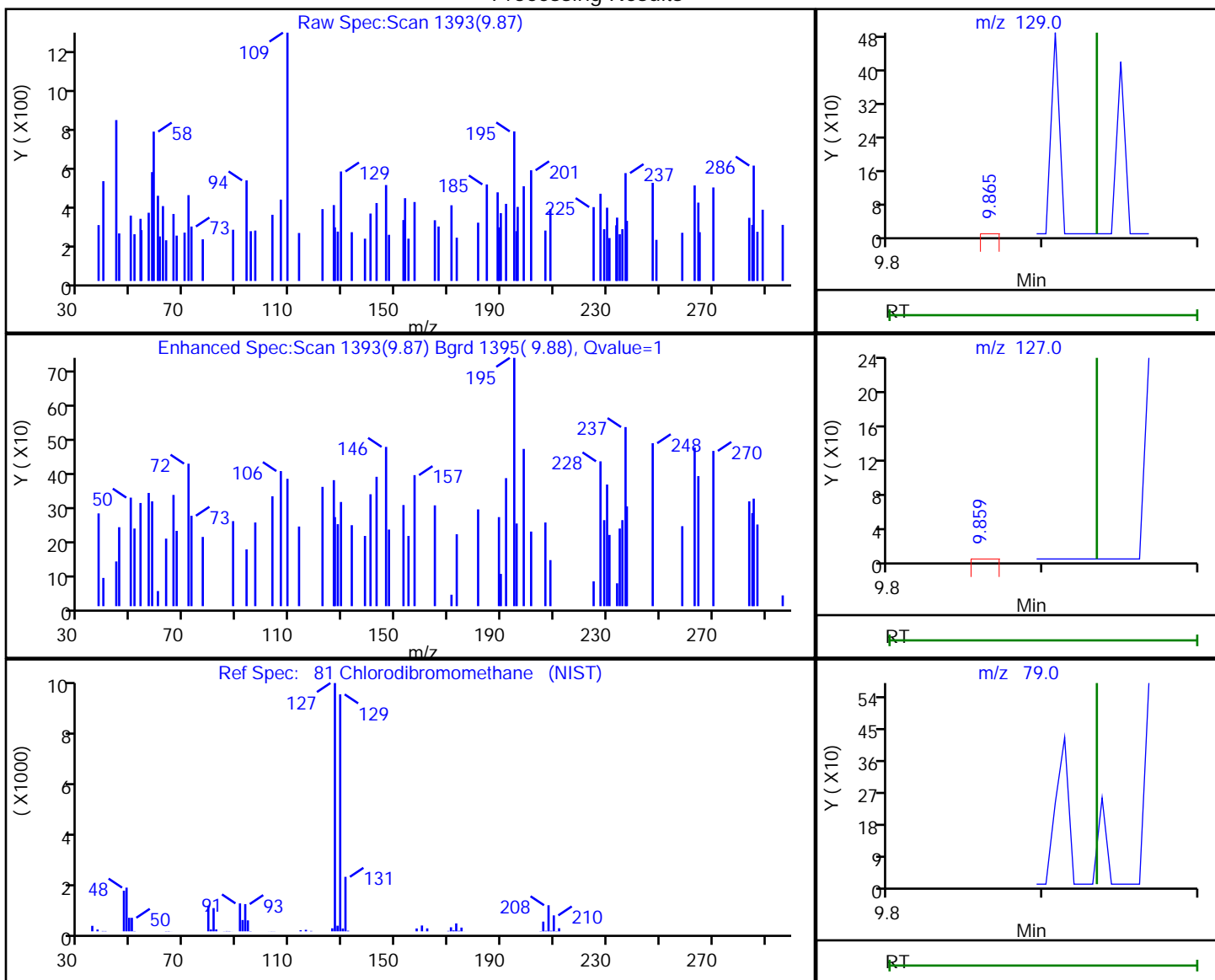
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101922.D
 Injection Date: 19-Oct-2019 22:40:30 Instrument ID: CHHP6
 Lims ID: 180-97133-C-6 Lab Sample ID: 180-97133-6
 Client ID: HD-MW-115-0/1-0
 Operator ID: 433269 ALS Bottle#: 16 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 10.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

81 Chlorodibromomethane, CAS: 124-48-1

Processing Results



RT	Mass	Response	Amount
9.87	129.00	197	0.112544
9.86	127.00	299	
9.93	79.00	0	

Reviewer: bowieh, 22-Oct-2019 10:02:45

Audit Action: Marked Compound Undetected

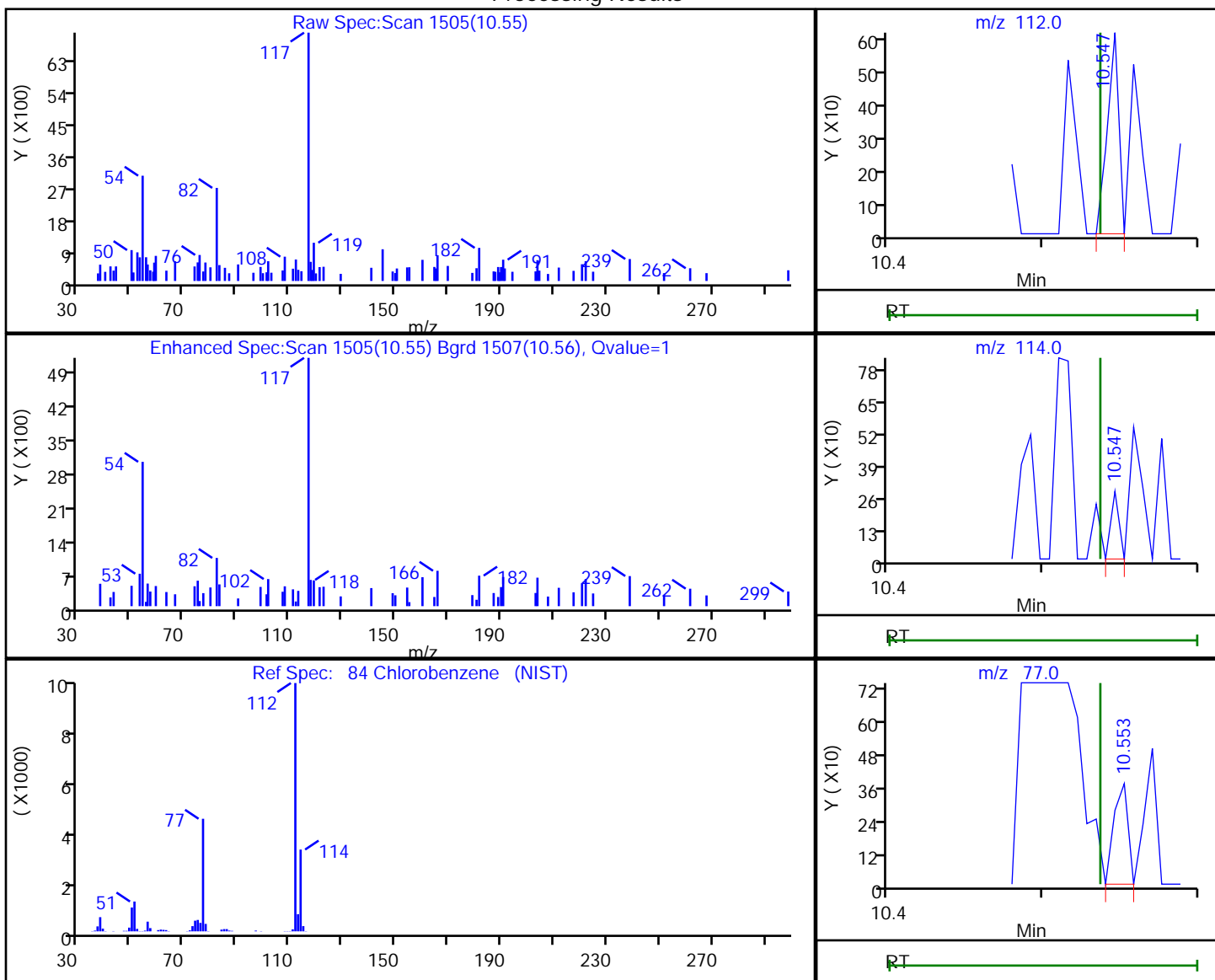
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101922.D
 Injection Date: 19-Oct-2019 22:40:30 Instrument ID: CHHP6
 Lims ID: 180-97133-C-6 Lab Sample ID: 180-97133-6
 Client ID: HD-MW-115-0/1-0
 Operator ID: 433269 ALS Bottle#: 16 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 10.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

84 Chlorobenzene, CAS: 108-90-7

Processing Results



RT	Mass	Response	Amount
10.55	112.00	317	0.049122
10.55	114.00	101	
10.55	77.00	234	

Reviewer: bowieh, 22-Oct-2019 10:02:50

Audit Action: Marked Compound Undetected

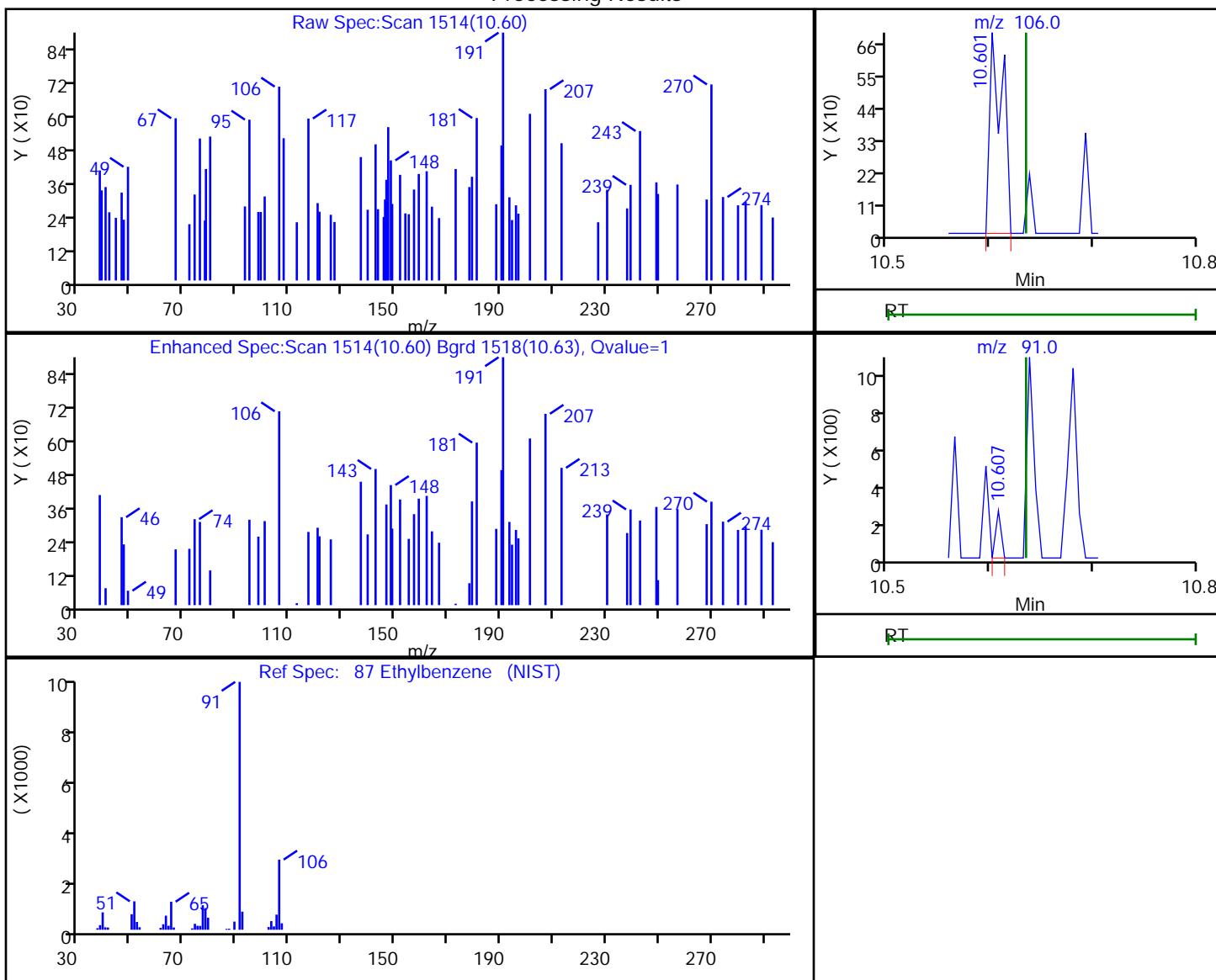
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101922.D
 Injection Date: 19-Oct-2019 22:40:30 Instrument ID: CHHP6
 Lims ID: 180-97133-C-6 Lab Sample ID: 180-97133-6
 Client ID: HD-MW-115-0/1-0
 Operator ID: 433269 ALS Bottle#: 16 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 10.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

87 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
10.60	106.00	609	0.161010
10.61	91.00	91	

Reviewer: bowieh, 22-Oct-2019 10:02:51

Audit Action: Marked Compound Undetected

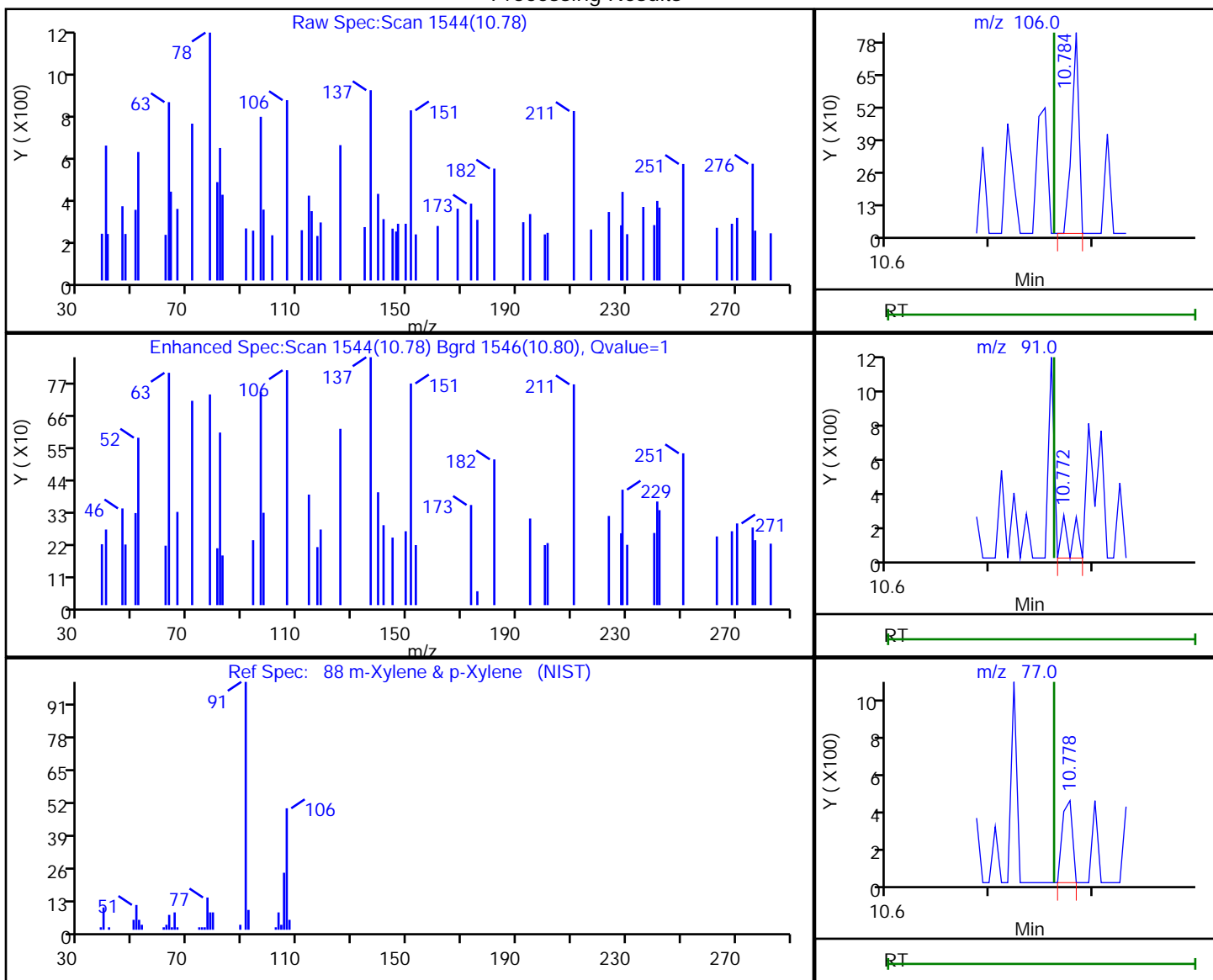
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101922.D
Injection Date: 19-Oct-2019 22:40:30 Instrument ID: CHHP6
Lims ID: 180-97133-C-6 Lab Sample ID: 180-97133-6
Client ID: HD-MW-115-0/1-0
Operator ID: 433269 ALS Bottle#: 16 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 10.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

88 m-Xylene & p-Xylene, CAS: 179601-23-1

Processing Results



RT	Mass	Response	Amount
10.78	106.00	396	0.085732
10.77	91.00	176	
10.78	77.00	289	

Reviewer: bowieh, 22-Oct-2019 10:02:57

Audit Action: Marked Compound Undetected

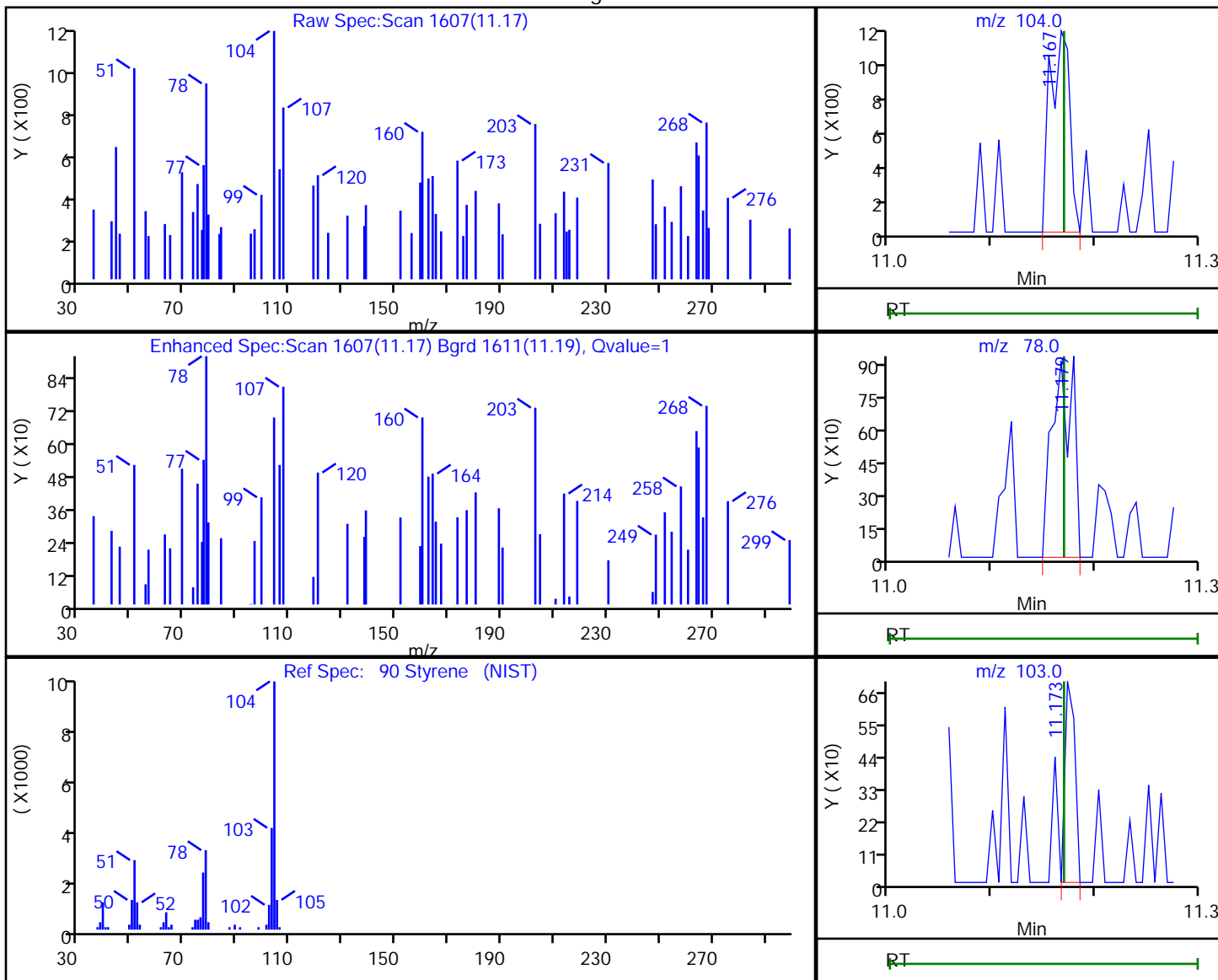
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101922.D
Injection Date: 19-Oct-2019 22:40:30 Instrument ID: CHHP6
Lims ID: 180-97133-C-6 Lab Sample ID: 180-97133-6
Client ID: HD-MW-115-0/1-0
Operator ID: 433269 ALS Bottle#: 16 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 10.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

90 Styrene, CAS: 100-42-5

Processing Results



RT	Mass	Response	Amount
11.17	104.00	1518	0.214993
11.18	78.00	1282	
11.17	103.00	464	

Reviewer: bowieh, 22-Oct-2019 10:03:00

Audit Action: Marked Compound Undetected

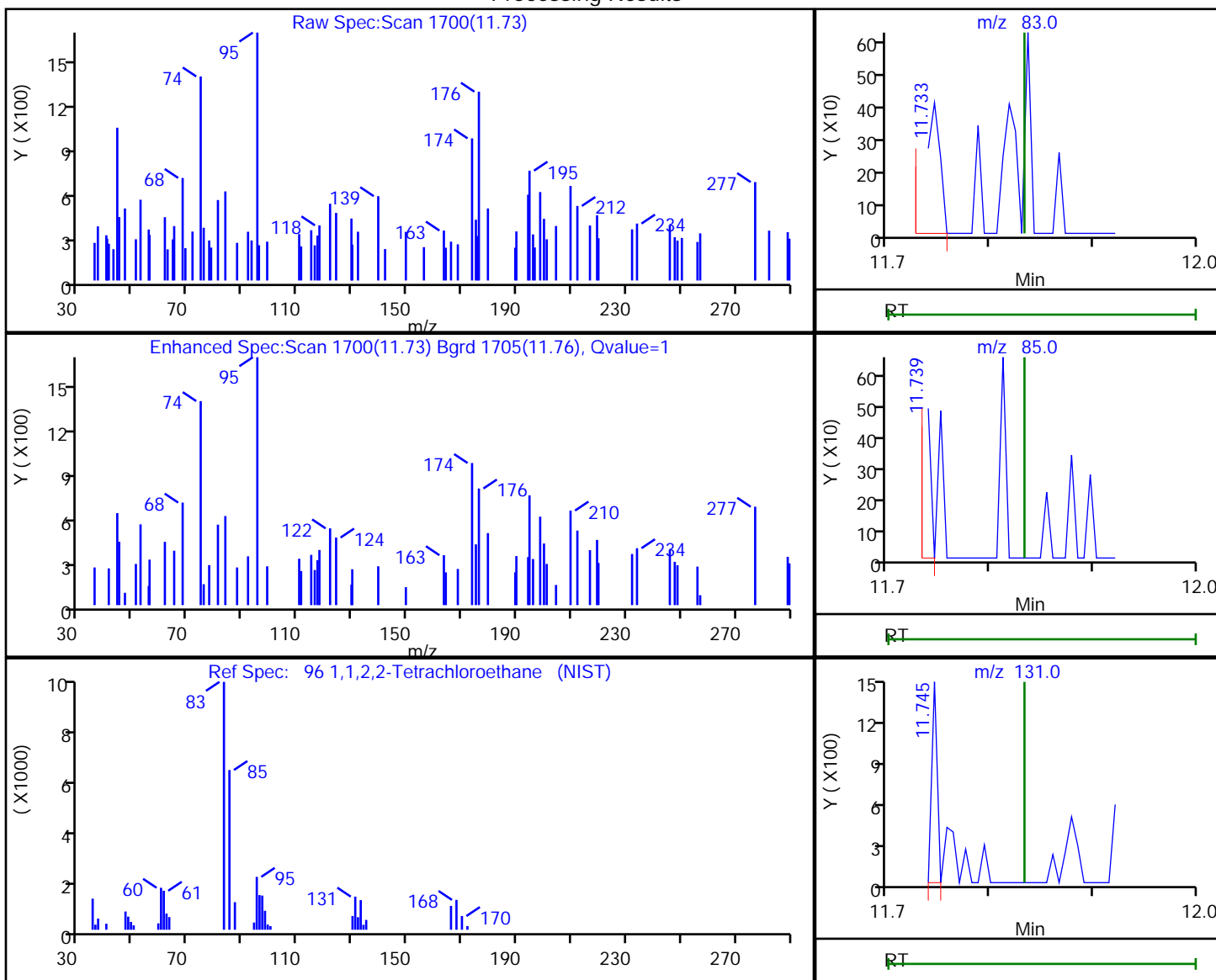
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101922.D
 Injection Date: 19-Oct-2019 22:40:30 Instrument ID: CHHP6
 Lims ID: 180-97133-C-6 Lab Sample ID: 180-97133-6
 Client ID: HD-MW-115-0/1-0
 Operator ID: 433269 ALS Bottle#: 16 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 10.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

96 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Processing Results



RT	Mass	Response	Amount
11.73	83.00	549	0.288394
11.74	85.00	179	
11.74	131.00	530	

Reviewer: bowieh, 22-Oct-2019 10:03:02

Audit Action: Marked Compound Undetected

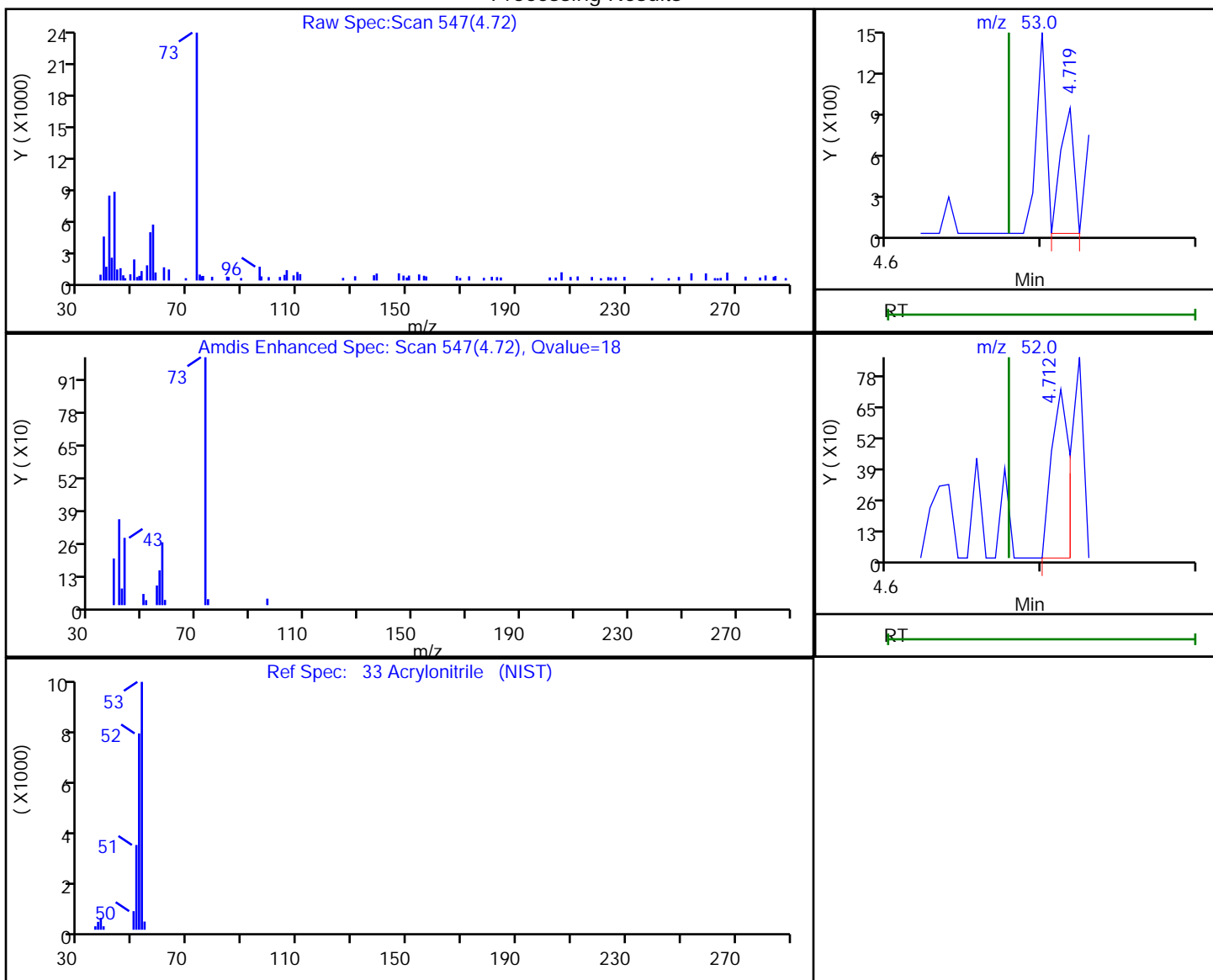
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101922.D
 Injection Date: 19-Oct-2019 22:40:30 Instrument ID: CHHP6
 Lims ID: 180-97133-C-6 Lab Sample ID: 180-97133-6
 Client ID: HD-MW-115-0/1-0
 Operator ID: 433269 ALS Bottle#: 16 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 10.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

33 Acrylonitrile, CAS: 107-13-1

Processing Results



RT	Mass	Response	Amount
4.72	53.00	539	0.633727
4.71	52.00	587	

Reviewer: bowieh, 22-Oct-2019 10:01:06

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1
 SDG No.: _____
 Client Sample ID: HD-MW-88-0/1-0 Lab Sample ID: 180-97133-7
 Matrix: Water Lab File ID: 6101923.D
 Analysis Method: EPA 8260C Date Collected: 10/10/2019 13:40
 Sample wt/vol: 5 (mL) Date Analyzed: 10/19/2019 23:06
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 295448 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	ND		1.0	0.90
75-01-4	Vinyl chloride	ND		1.0	0.88
74-83-9	Bromomethane	ND		1.0	0.89
75-00-3	Chloroethane	ND		1.0	0.90
75-35-4	1,1-Dichloroethene	ND		1.0	0.55
67-64-1	Acetone	ND		5.0	3.4
75-15-0	Carbon disulfide	ND		1.0	0.88
75-09-2	Methylene Chloride	ND		1.0	0.89
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.67
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.59
75-34-3	1,1-Dichloroethane	ND		1.0	0.63
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.71
74-97-5	Bromochloromethane	ND		1.0	0.63
78-93-3	2-Butanone (MEK)	ND		5.0	2.6
67-66-3	Chloroform	ND		1.0	0.60
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.60
56-23-5	Carbon tetrachloride	ND		1.0	0.88
71-43-2	Benzene	ND		1.0	0.60
107-06-2	1,2-Dichloroethane	ND		1.0	0.57
79-01-6	Trichloroethene	ND		1.0	0.69
78-87-5	1,2-Dichloropropane	ND		1.0	0.66
75-27-4	Bromodichloromethane	ND		1.0	0.64
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.59
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	3.1
108-88-3	Toluene	ND		1.0	0.46
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.58
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.45
127-18-4	Tetrachloroethene	1.0		1.0	0.47
591-78-6	2-Hexanone	ND		5.0	3.3
124-48-1	Dibromochloromethane	ND		1.0	0.84
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.50
108-90-7	Chlorobenzene	ND		1.0	0.50
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.57
100-41-4	Ethylbenzene	ND		1.0	0.51
1330-20-7	Xylenes, Total	ND		2.0	0.89
100-42-5	Styrene	ND		1.0	0.47

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1
 SDG No.: _____
 Client Sample ID: HD-MW-88-0/1-0 Lab Sample ID: 180-97133-7
 Matrix: Water Lab File ID: 6101923.D
 Analysis Method: EPA 8260C Date Collected: 10/10/2019 13:40
 Sample wt/vol: 5 (mL) Date Analyzed: 10/19/2019 23:06
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 295448 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	ND		1.0	0.98
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.60
107-13-1	Acrylonitrile	ND		20	7.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	113		70-150
2037-26-5	Toluene-d8 (Surr)	102		78-128
460-00-4	4-Bromofluorobenzene (Surr)	101		64-123
1868-53-7	Dibromofluoromethane (Surr)	115		75-147

Eurofins TestAmerica, Pittsburgh
Target Compound Quantitation Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101923.D
 Lims ID: 180-97133-B-7
 Client ID: HD-MW-88-0/1-0
 Sample Type: Client
 Inject. Date: 19-Oct-2019 23:06:30 ALS Bottle#: 17 Worklist Smp#: 23
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-0029191-023
 Misc. Info.: 180-97133-b-7
 Operator ID: 433269 Instrument ID: CHHP6
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C_D ICAL
 Last Update: 22-Oct-2019 10:09:36 Calib Date: 18-Oct-2019 18:47:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101817.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX0302

First Level Reviewer: bowieh

Date: 22-Oct-2019 10:09:36

Compound	Sig	RT (min.)	Exp RT (min.)	Diff RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.423	4.429	-0.006	88	143802	1000.0	
* 2 Fluorobenzene (IS)	96	7.410	7.410	0.000	98	415730	50.0	
* 3 Chlorobenzene-d5	119	10.506	10.513	-0.007	89	109168	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.848	12.855	-0.007	98	144641	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.692	6.686	0.006	93	111902	57.3	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	7.057	7.057	0.000	94	169145	56.7	
\$ 7 Toluene-d8 (Surr)	98	9.052	9.053	-0.001	94	406703	51.2	
\$ 8 4-Bromofluorobenzene (Surr	95	11.693	11.693	0.000	0	165909	50.6	
12 Chloromethane	50		1.886				ND	U
13 Vinyl chloride	62		2.008				ND	U
15 Bromomethane	94		2.355				ND	U
16 Chloroethane	64		2.495				ND	U
22 1,1-Dichloroethene	96		3.468				ND	U
24 Acetone	43		3.584				ND	U
26 Carbon disulfide	76		3.766				ND	U
31 Methylene Chloride	84		4.289				ND	
33 Acrylonitrile	53		4.679				ND	U
34 trans-1,2-Dichloroethene	96		4.709				ND	U
35 Methyl tert-butyl ether	73		4.715				ND	U
37 1,1-Dichloroethane	63		5.336				ND	
43 cis-1,2-Dichloroethene	96	6.084	6.078	0.006	10	3463	1.39	
44 2-Butanone (MEK)	43		6.090				ND	U
48 Chlorobromomethane	128		6.358				ND	U
50 Chloroform	83		6.510				ND	
51 1,1,1-Trichloroethane	97		6.662				ND	
53 Carbon tetrachloride	117		6.826				ND	U
56 Benzene	78		7.063				ND	U
57 1,2-Dichloroethane	62		7.142				ND	U
61 Trichloroethene	130	7.805	7.793	0.012	56	8249	3.09	M
64 1,2-Dichloropropane	63		8.061				ND	U
68 Dichlorobromomethane	83		8.347				ND	U

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101923.D

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
71 cis-1,3-Dichloropropene	75		8.797				ND	
72 4-Methyl-2-pentanone (MIBK)	43		8.955				ND	U
73 Toluene	91		9.126				ND	U
74 trans-1,3-Dichloropropene	75		9.369				ND	U
76 1,1,2-Trichloroethane	97		9.570				ND	U
77 Tetrachloroethene	164	9.642	9.631	0.011	83	10707	5.18	M
79 2-Hexanone	43		9.789				ND	U
81 Chlorodibromomethane	129		9.935				ND	U
82 Ethylene Dibromide	107		10.044				ND	U
84 Chlorobenzene	112		10.537				ND	U
87 Ethylbenzene	106		10.634				ND	U
86 1,1,1,2-Tetrachloroethane	131		10.634				ND	U
88 m-Xylene & p-Xylene	106		10.762				ND	
89 o-Xylene	106		11.145				ND	
90 Styrene	104		11.170				ND	U
91 Bromoform	173		11.352				ND	
96 1,1,2,2-Tetrachloroethane	83		11.833				ND	U
S 131 Xylenes, Total	106		1.000				ND	

QC Flag Legend

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

voaWI/SHP5_00014

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101923.D

Injection Date: 19-Oct-2019 23:06:30

Instrument ID: CHHP6

Operator ID: 433269

Lims ID: 180-97133-B-7

Lab Sample ID: 180-97133-7

Worklist Smp#: 23

Client ID: HD-MW-88-0/1-0

Purge Vol: 5.000 mL

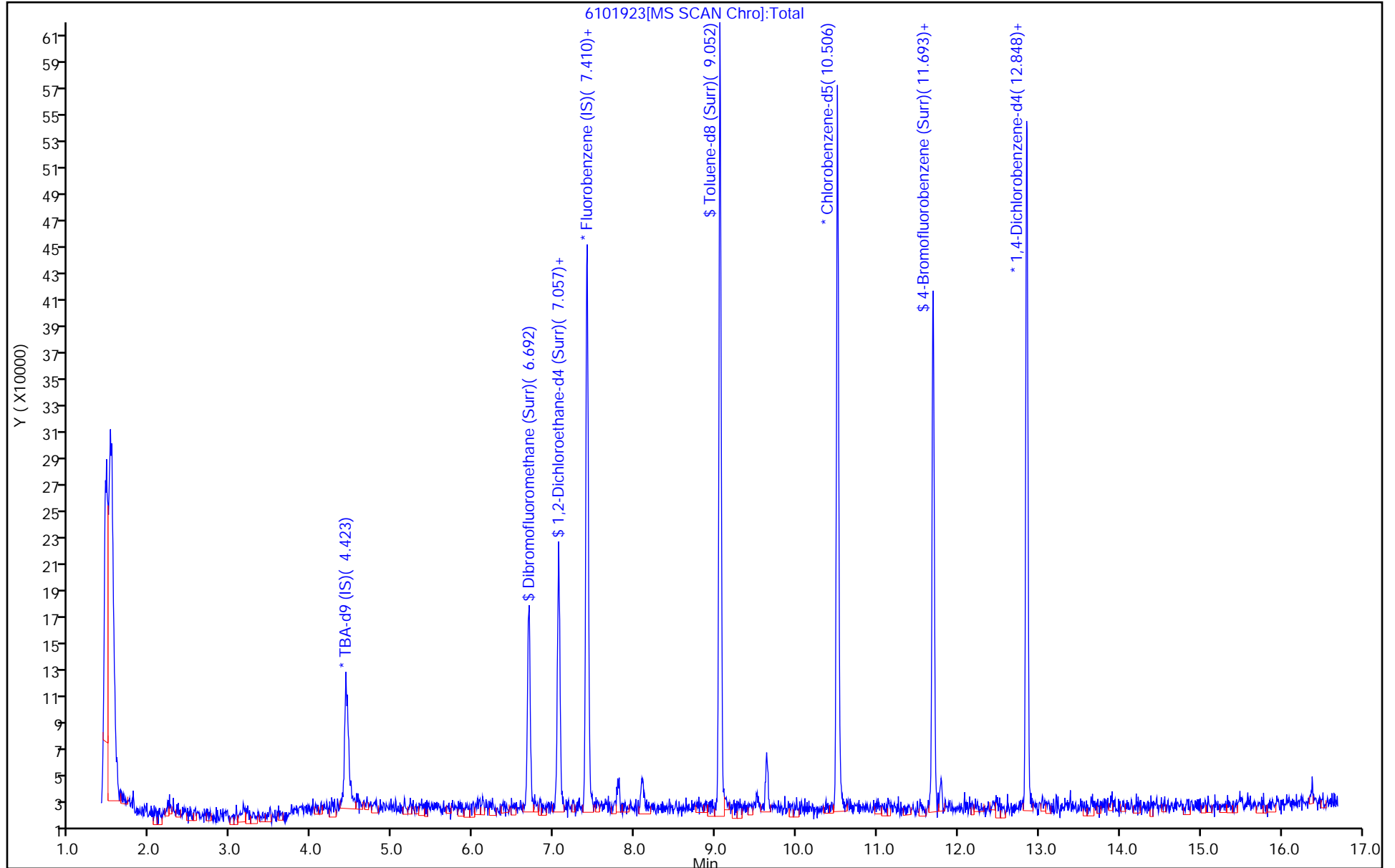
Dil. Factor: 1.0000

ALS Bottle#: 17

Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C_D ICAL

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Pittsburgh
Recovery Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101923.D
 Lims ID: 180-97133-B-7
 Client ID: HD-MW-88-0/1-0
 Sample Type: Client
 Inject. Date: 19-Oct-2019 23:06:30 ALS Bottle#: 17 Worklist Smp#: 23
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-0029191-023
 Misc. Info.: 180-97133-b-7
 Operator ID: 433269 Instrument ID: CHHP6
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C_D ICAL
 Last Update: 22-Oct-2019 10:09:36 Calib Date: 18-Oct-2019 18:47:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101817.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX0302

First Level Reviewer: bowieh Date: 22-Oct-2019 10:09:36

Compound	Amount Added	Amount Recovered	% Rec.
\$ 5 Dibromofluoromethane (Surr)	50.0	57.3	114.59
\$ 6 1,2-Dichloroethane-d4 (Surr)	50.0	56.7	113.33
\$ 7 Toluene-d8 (Surr)	50.0	51.2	102.44
\$ 8 4-Bromofluorobenzene (Surr)	50.0	50.6	101.21

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101923.D

Injection Date: 19-Oct-2019 23:06:30

Instrument ID: CHHP6

Lims ID: 180-97133-B-7

Lab Sample ID: 180-97133-7

Client ID: HD-MW-88-0/1-0

Operator ID: 433269

ALS Bottle#: 17 Worklist Smp#: 23

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

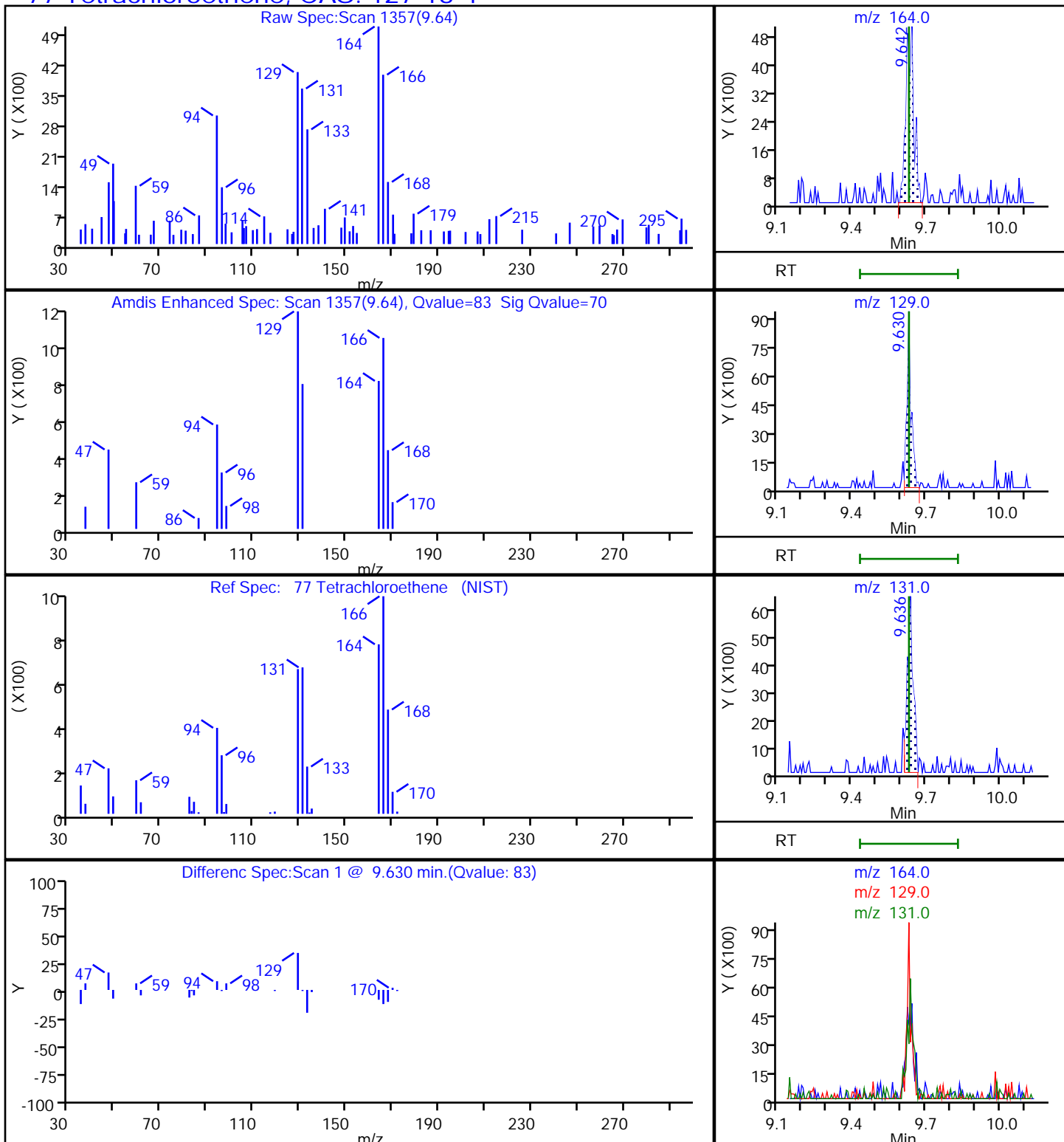
Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C_D ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

77 Tetrachloroethene, CAS: 127-18-4

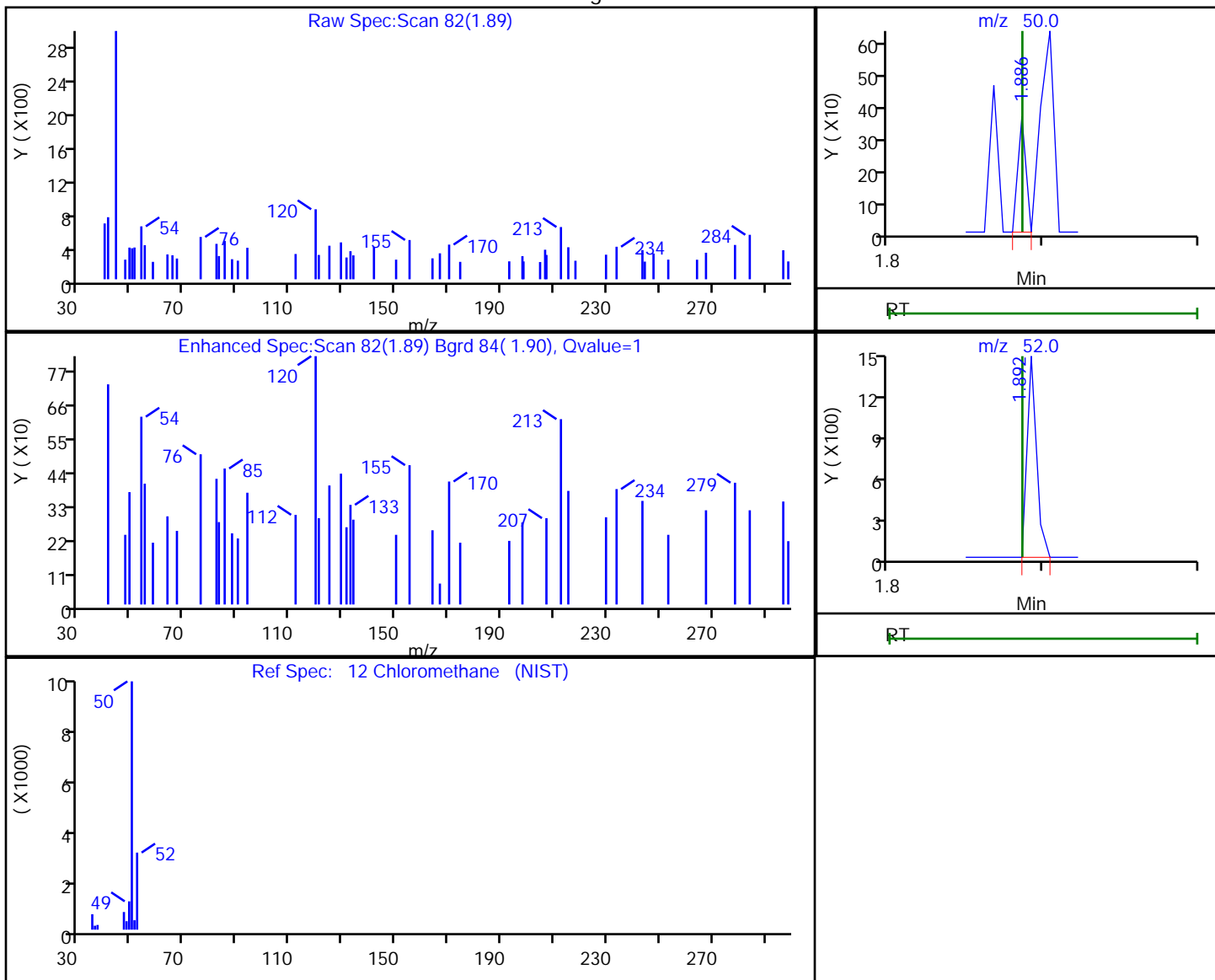


Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101923.D
 Injection Date: 19-Oct-2019 23:06:30 Instrument ID: CHHP6
 Lims ID: 180-97133-B-7 Lab Sample ID: 180-97133-7
 Client ID: HD-MW-88-0/1-0
 Operator ID: 433269 ALS Bottle#: 17 Worklist Smp#: 23
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

12 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
1.89	50.00	132	0.037567
1.89	52.00	614	

Reviewer: bowieh, 22-Oct-2019 10:04:24

Audit Action: Marked Compound Undetected

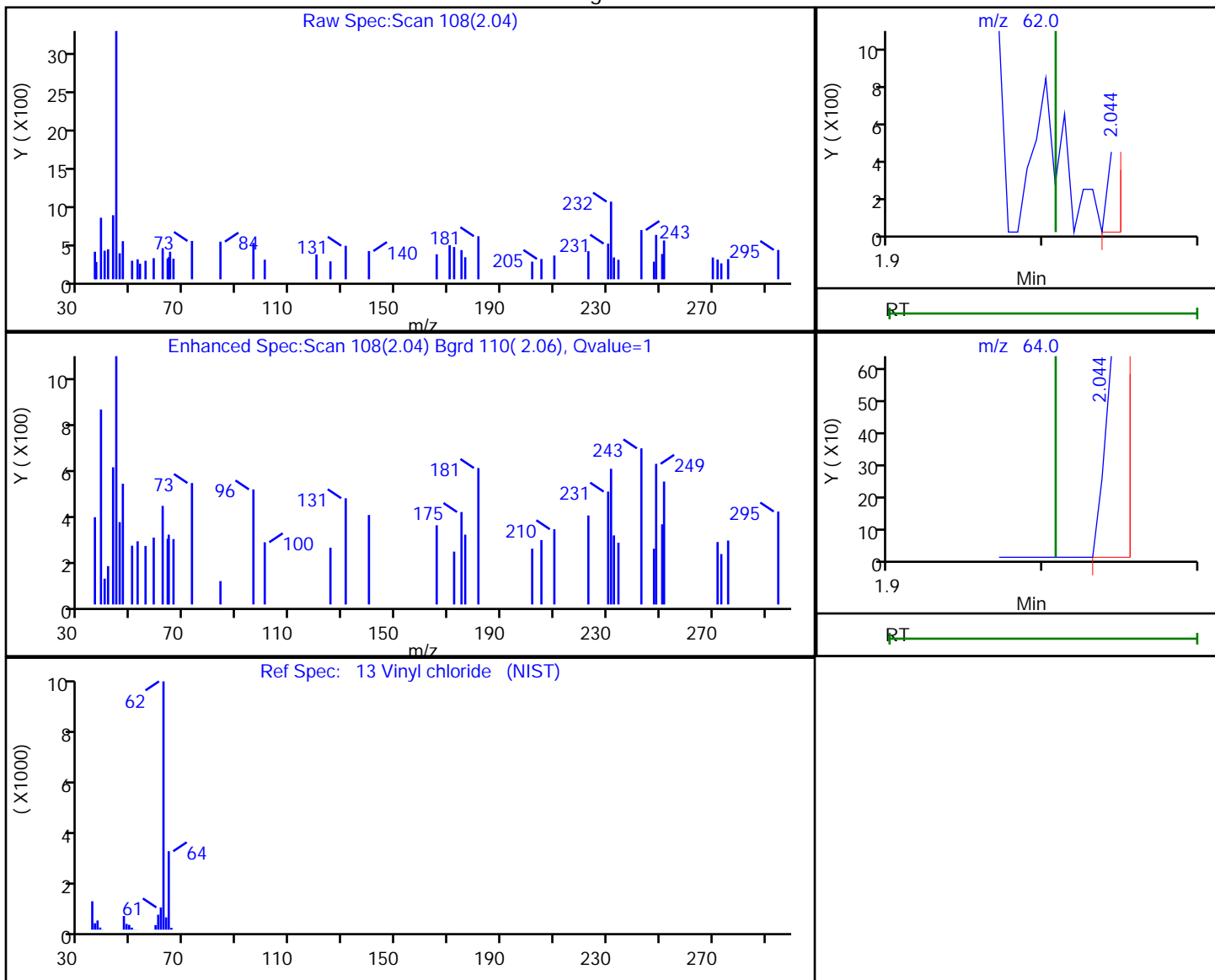
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Injection Date: 19-Oct-2019 23:06:30 Instrument ID: CHHP6
 Lims ID: 180-97133-B-7 Lab Sample ID: 180-97133-7
 Client ID: HD-MW-88-0/1-0
 Operator ID: 433269 ALS Bottle#: 17 Worklist Smp#: 23
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

13 Vinyl chloride, CAS: 75-01-4

Processing Results



RT	Mass	Response	Amount
2.04	62.00	146	0.048953
2.04	64.00	409	

Reviewer: bowieh, 22-Oct-2019 10:08:13

Audit Action: Marked Compound Undetected

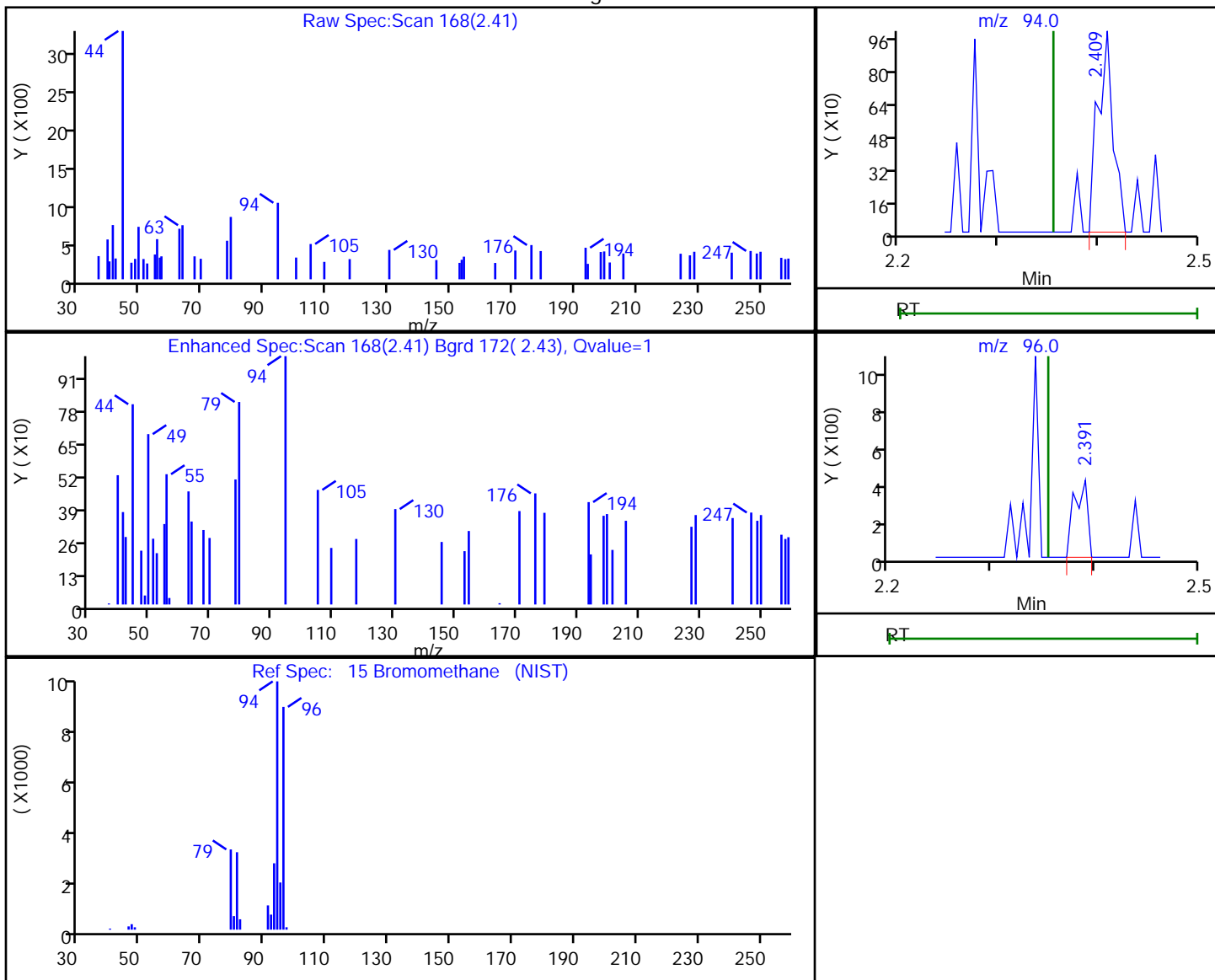
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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Injection Date: 19-Oct-2019 23:06:30 Instrument ID: CHHP6
Lims ID: 180-97133-B-7 Lab Sample ID: 180-97133-7
Client ID: HD-MW-88-0/1-0
Operator ID: 433269 ALS Bottle#: 17 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

15 Bromomethane, CAS: 74-83-9

Processing Results



RT	Mass	Response	Amount
2.41	94.00	1069	0.849378
2.39	96.00	366	

Reviewer: bowieh, 22-Oct-2019 10:08:14

Audit Action: Marked Compound Undetected

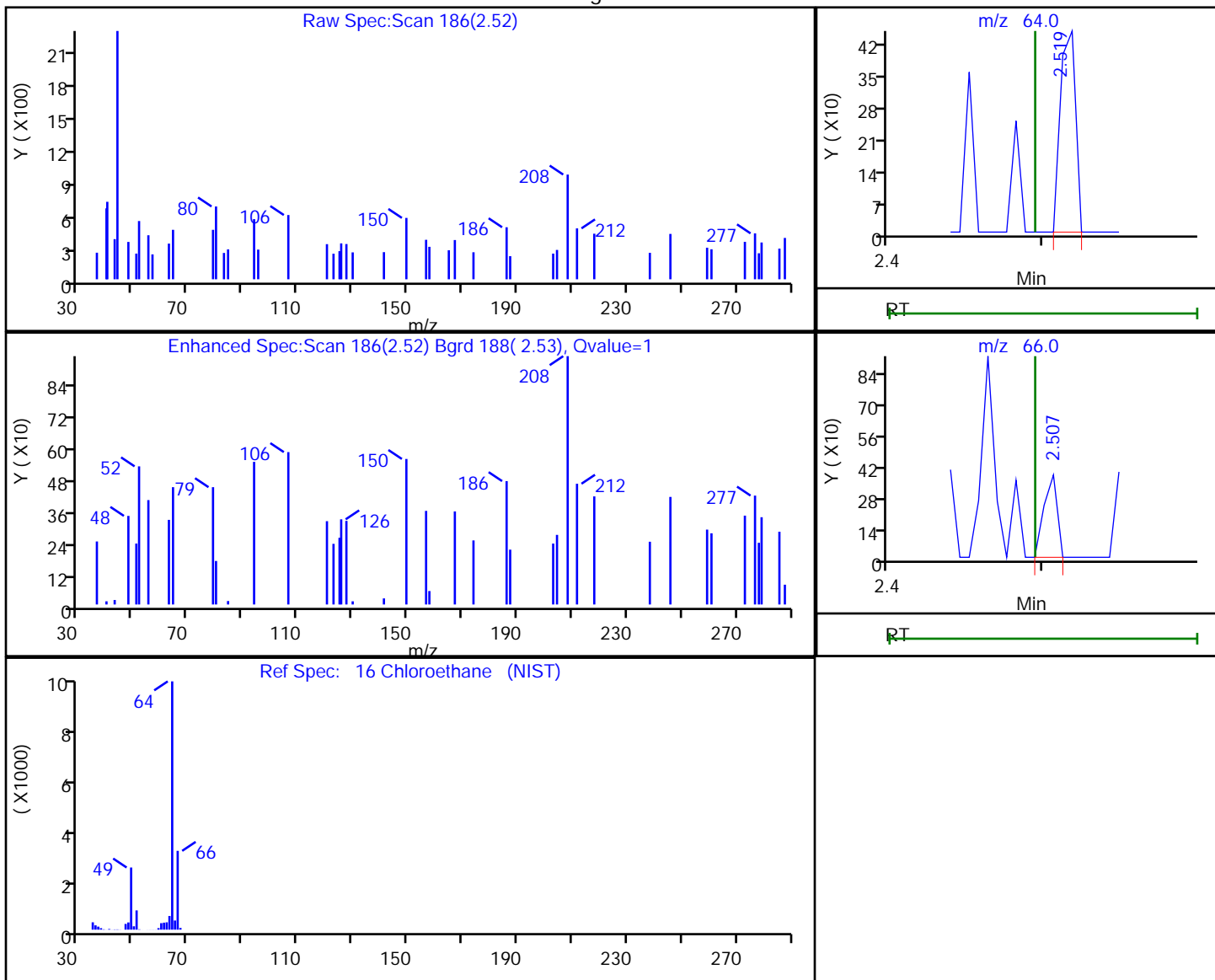
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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Injection Date: 19-Oct-2019 23:06:30 Instrument ID: CHHP6
Lims ID: 180-97133-B-7 Lab Sample ID: 180-97133-7
Client ID: HD-MW-88-0/1-0
Operator ID: 433269 ALS Bottle#: 17 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

16 Chloroethane, CAS: 75-00-3

Processing Results



RT	Mass	Response	Amount
2.52	64.00	306	-2.577614
2.51	66.00	223	

Reviewer: bowieh, 22-Oct-2019 10:08:15

Audit Action: Marked Compound Undetected

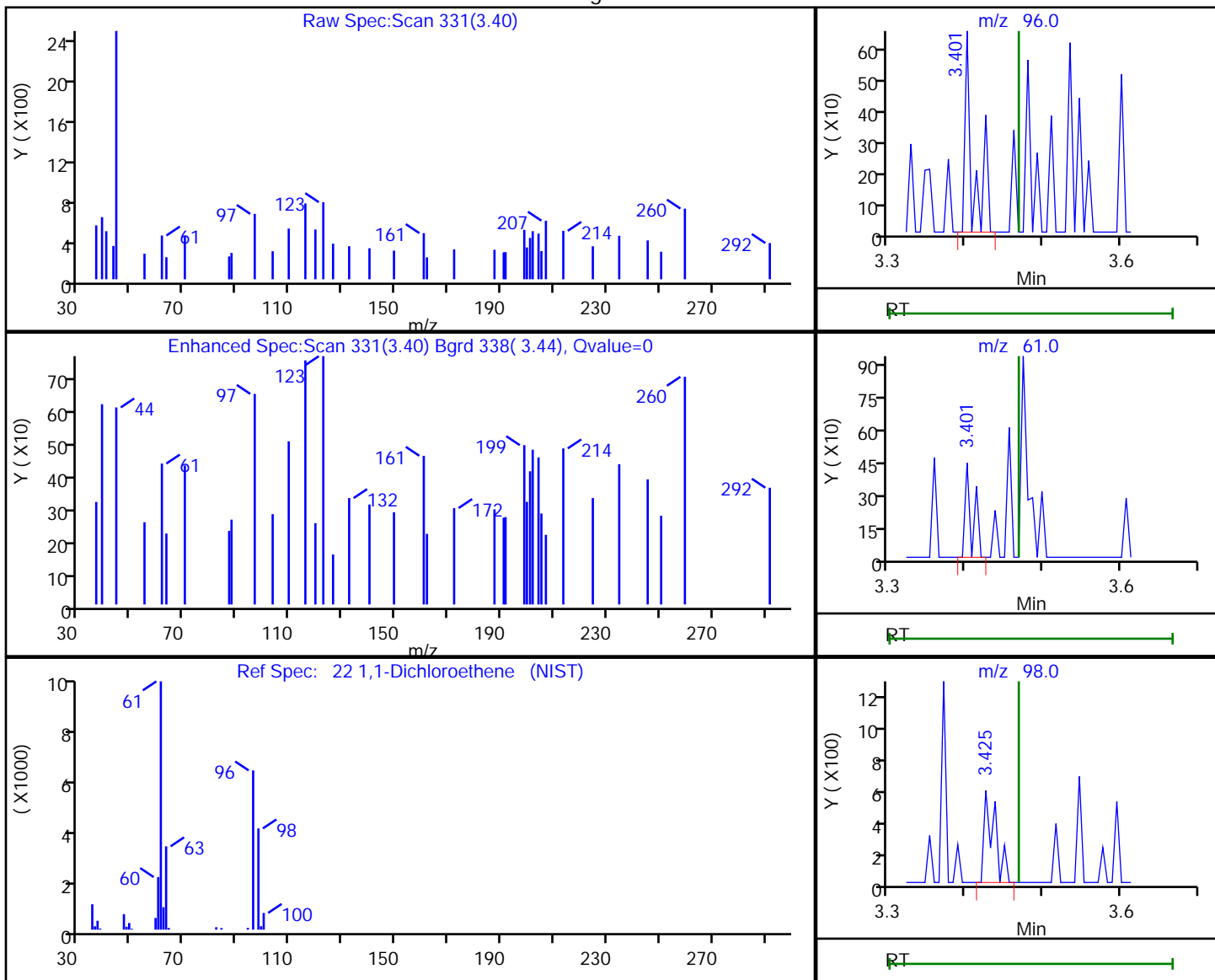
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101923.D
 Injection Date: 19-Oct-2019 23:06:30 Instrument ID: CHHP6
 Lims ID: 180-97133-B-7 Lab Sample ID: 180-97133-7
 Client ID: HD-MW-88-0/1-0
 Operator ID: 433269 ALS Bottle#: 17 Worklist Smp#: 23
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

22 1,1-Dichloroethene, CAS: 75-35-4

Processing Results



RT	Mass	Response	Amount
3.40	96.00	450	0.226138
3.40	61.00	280	
3.43	98.00	571	

Reviewer: bowieh, 22-Oct-2019 10:08:16

Audit Action: Marked Compound Undetected

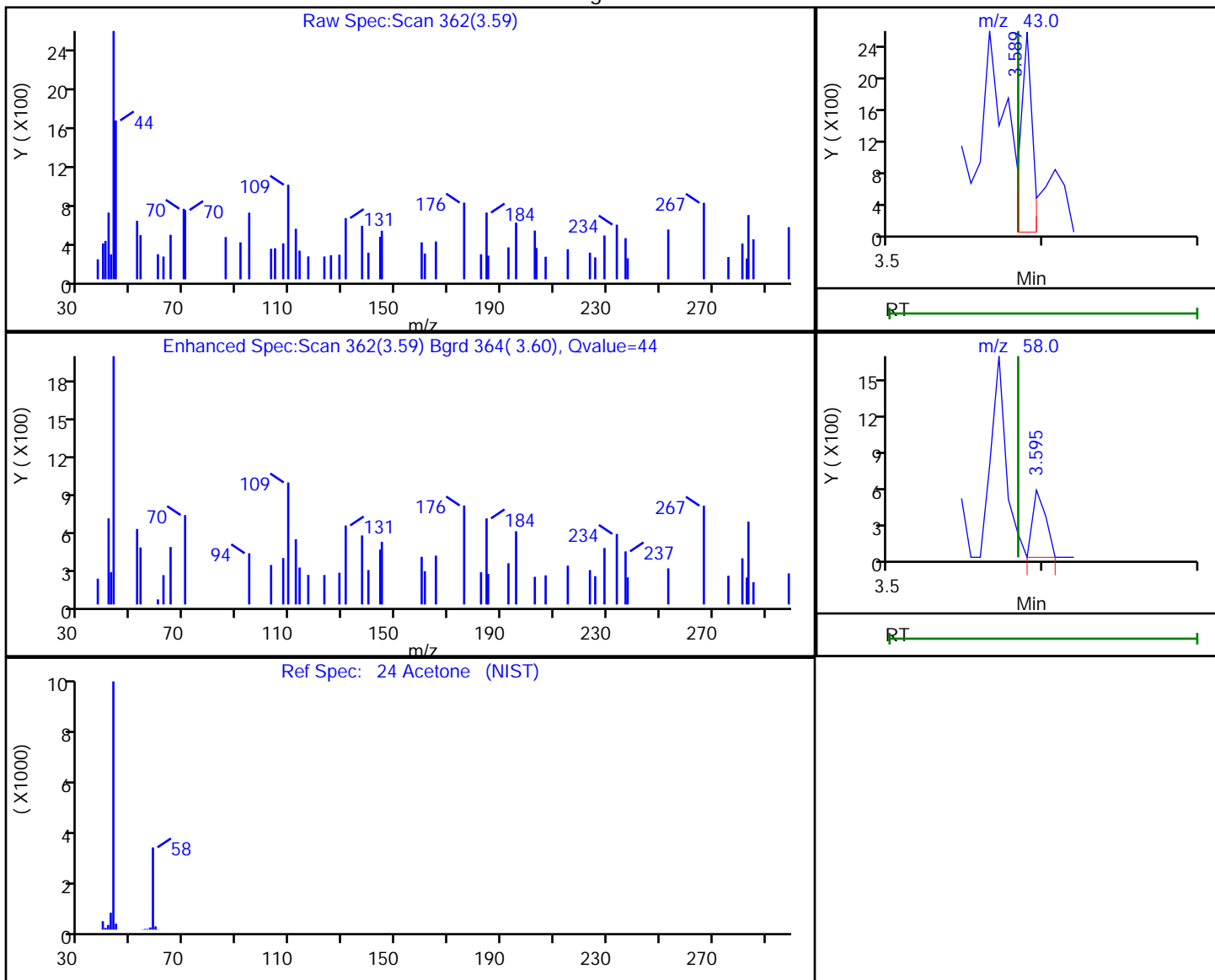
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Injection Date: 19-Oct-2019 23:06:30 Instrument ID: CHHP6
 Lims ID: 180-97133-B-7 Lab Sample ID: 180-97133-7
 Client ID: HD-MW-88-0/1-0
 Operator ID: 433269 ALS Bottle#: 17 Worklist Smp#: 23
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

24 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
3.59	43.00	1367	1.165164
3.60	58.00	326	

Reviewer: bowieh, 22-Oct-2019 10:08:18

Audit Action: Marked Compound Undetected

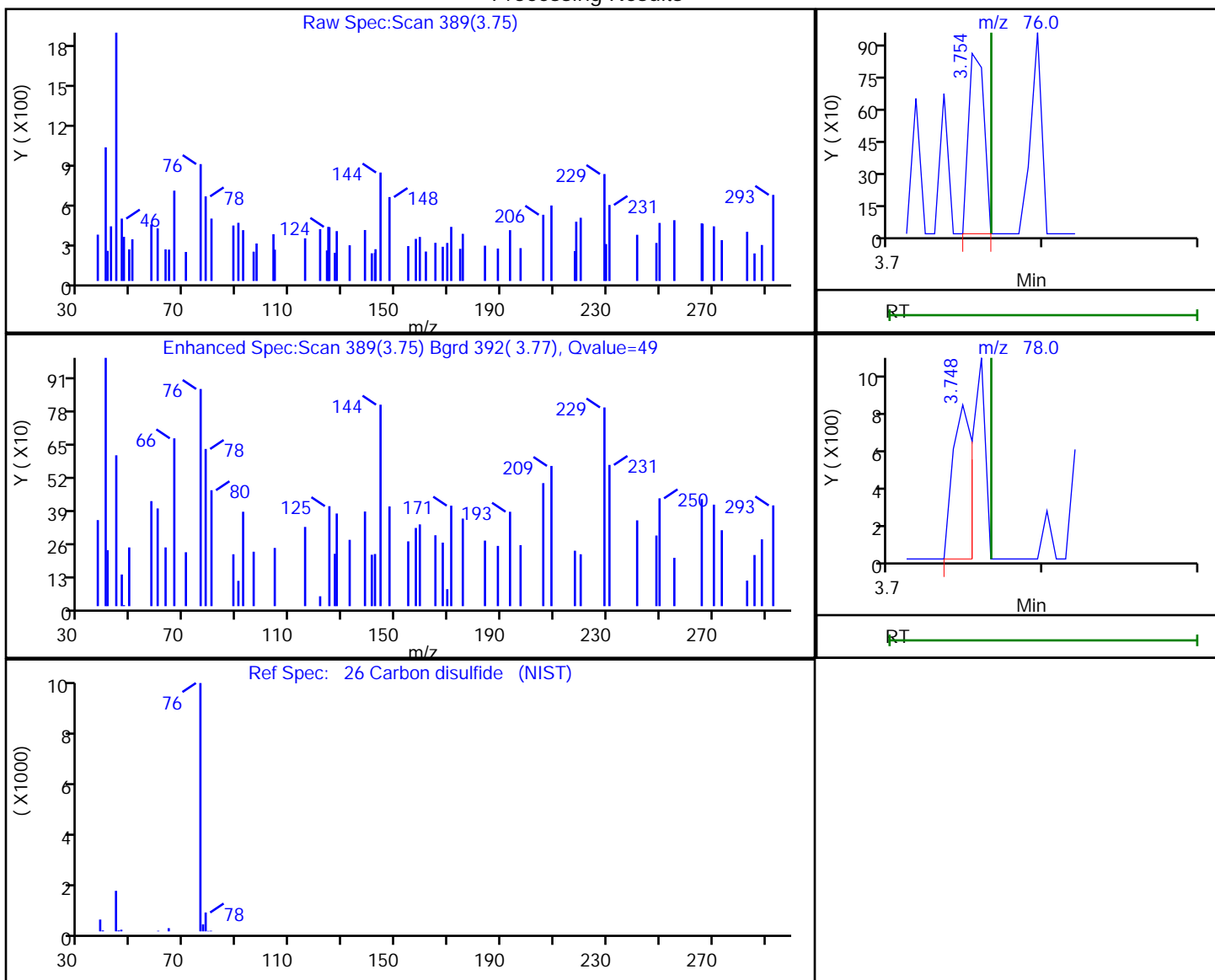
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101923.D
 Injection Date: 19-Oct-2019 23:06:30 Instrument ID: CHHP6
 Lims ID: 180-97133-B-7 Lab Sample ID: 180-97133-7
 Client ID: HD-MW-88-0/1-0
 Operator ID: 433269 ALS Bottle#: 17 Worklist Smp#: 23
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

26 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
3.75	76.00	602	0.111469
3.75	78.00	737	

Reviewer: bowieh, 22-Oct-2019 10:08:28

Audit Action: Marked Compound Undetected

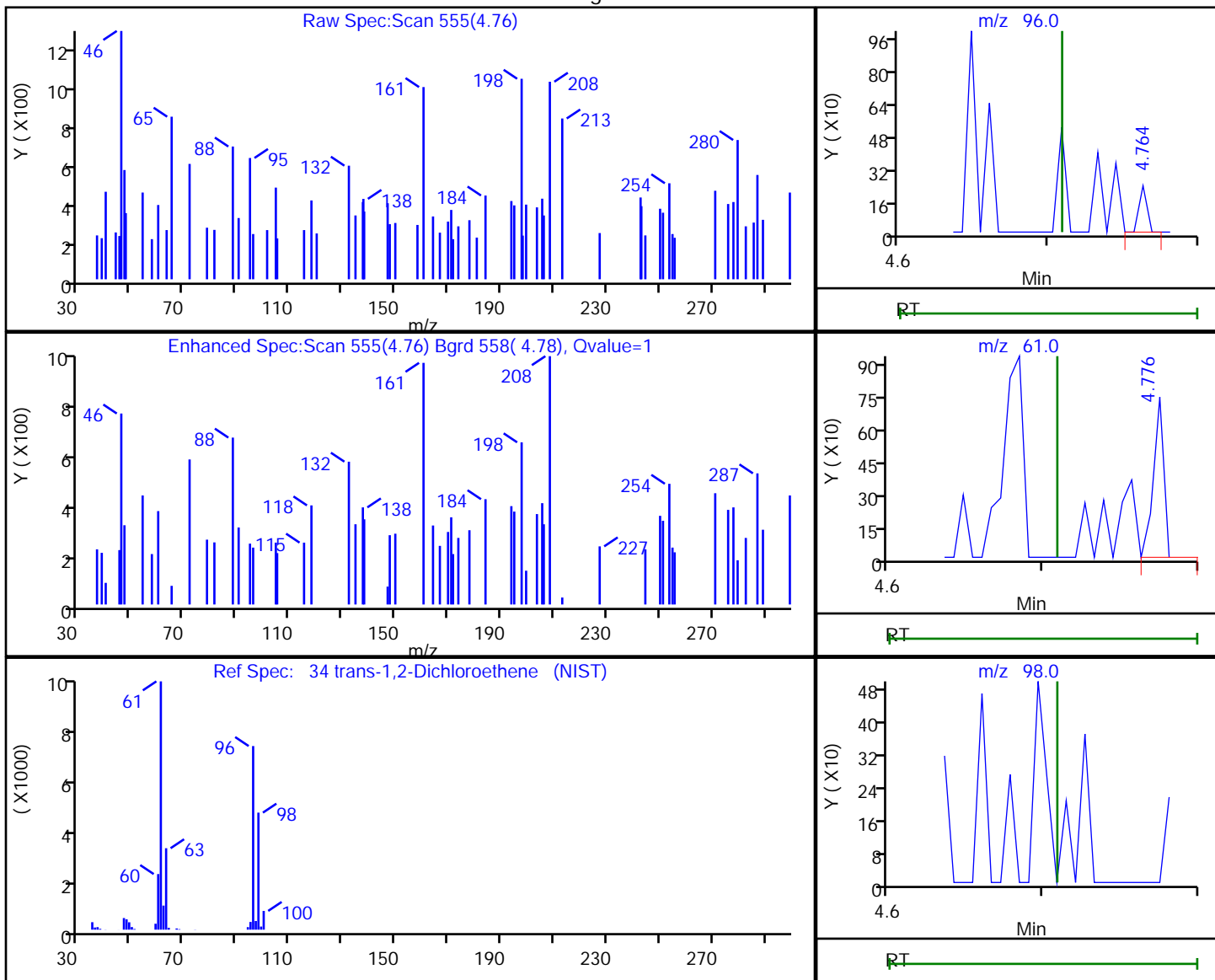
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101923.D
Injection Date: 19-Oct-2019 23:06:30 Instrument ID: CHHP6
Lims ID: 180-97133-B-7 Lab Sample ID: 180-97133-7
Client ID: HD-MW-88-0/1-0
Operator ID: 433269 ALS Bottle#: 17 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

34 trans-1,2-Dichloroethene, CAS: 156-60-5

Processing Results



RT	Mass	Response	Amount
4.76	96.00	84	0.035050
4.78	61.00	546	
4.71	98.00	0	

Reviewer: bowieh, 22-Oct-2019 10:08:31

Audit Action: Marked Compound Undetected

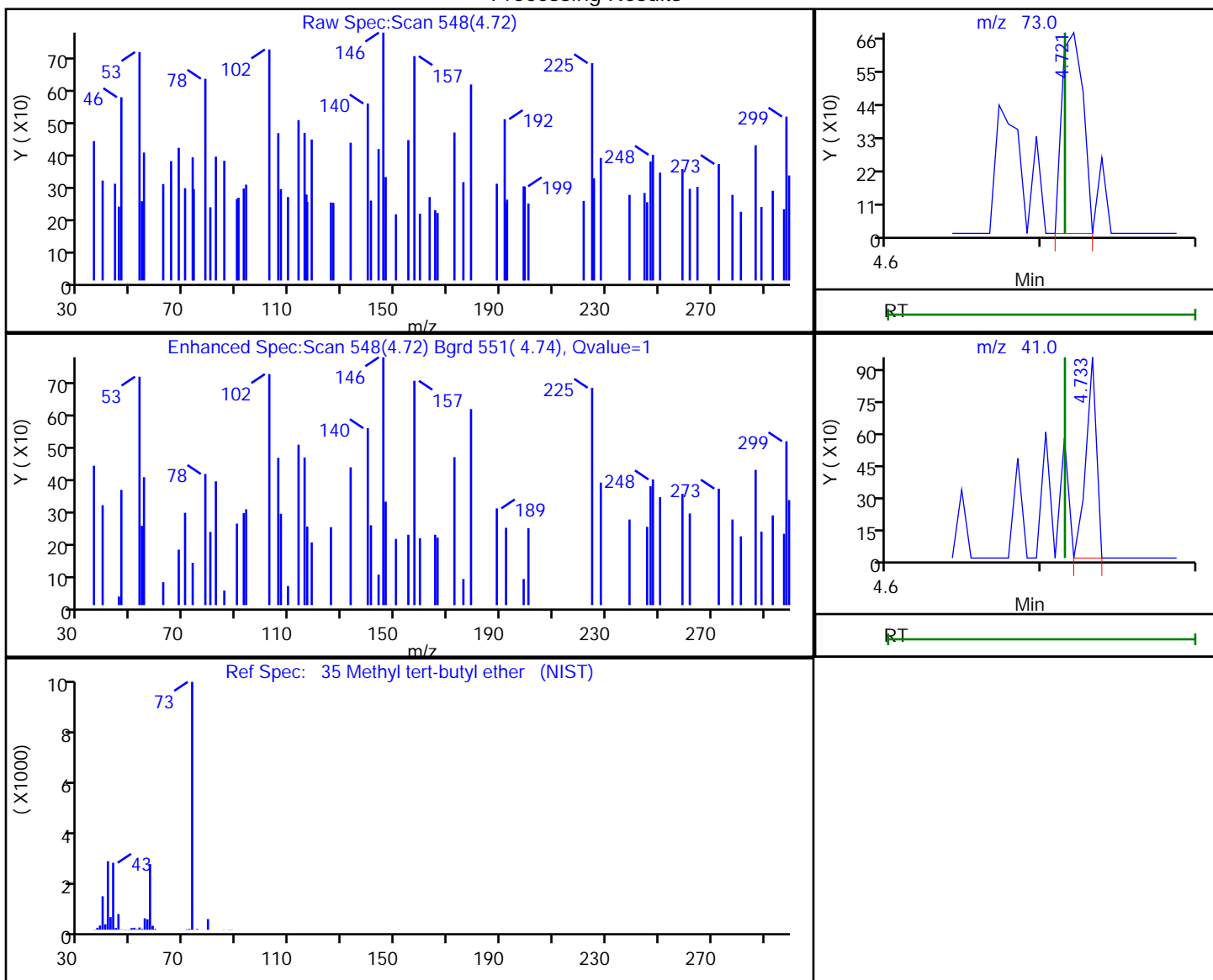
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101923.D
 Injection Date: 19-Oct-2019 23:06:30 Instrument ID: CHHP6
 Lims ID: 180-97133-B-7 Lab Sample ID: 180-97133-7
 Client ID: HD-MW-88-0/1-0
 Operator ID: 433269 ALS Bottle#: 17 Worklist Smp#: 23
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

35 Methyl tert-butyl ether, CAS: 1634-04-4

Processing Results



RT	Mass	Response	Amount
4.72	73.00	646	0.124692
4.73	41.00	451	

Reviewer: bowieh, 22-Oct-2019 10:08:38

Audit Action: Marked Compound Undetected

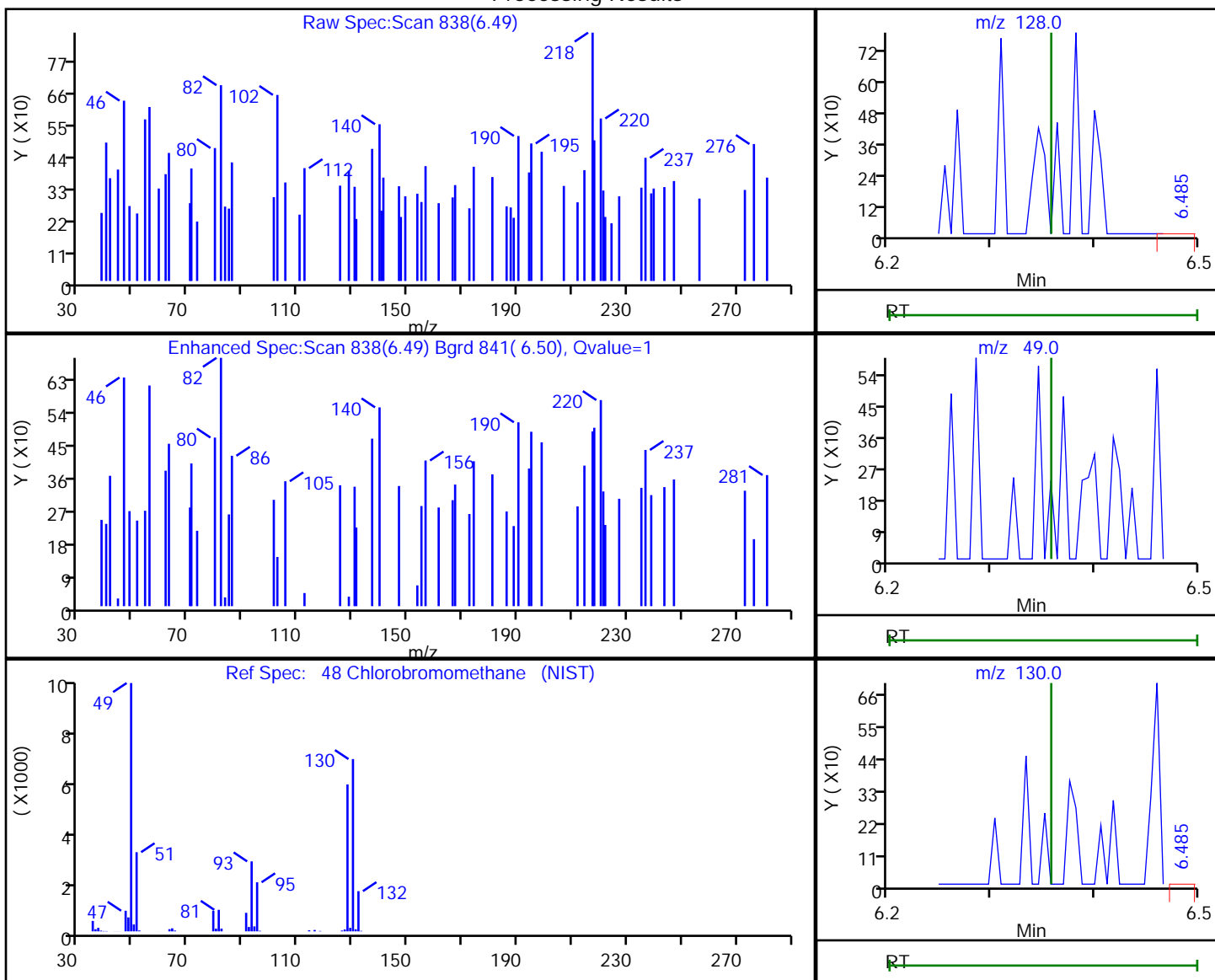
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101923.D
 Injection Date: 19-Oct-2019 23:06:30 Instrument ID: CHHP6
 Lims ID: 180-97133-B-7 Lab Sample ID: 180-97133-7
 Client ID: HD-MW-88-0/1-0
 Operator ID: 433269 ALS Bottle#: 17 Worklist Smp#: 23
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

48 Chlorobromomethane, CAS: 74-97-5

Processing Results



RT	Mass	Response	Amount
6.49	128.00	392	0.345155
6.50	49.00	821	
6.49	130.00	366	

Reviewer: bowieh, 22-Oct-2019 10:08:43

Audit Action: Marked Compound Undetected

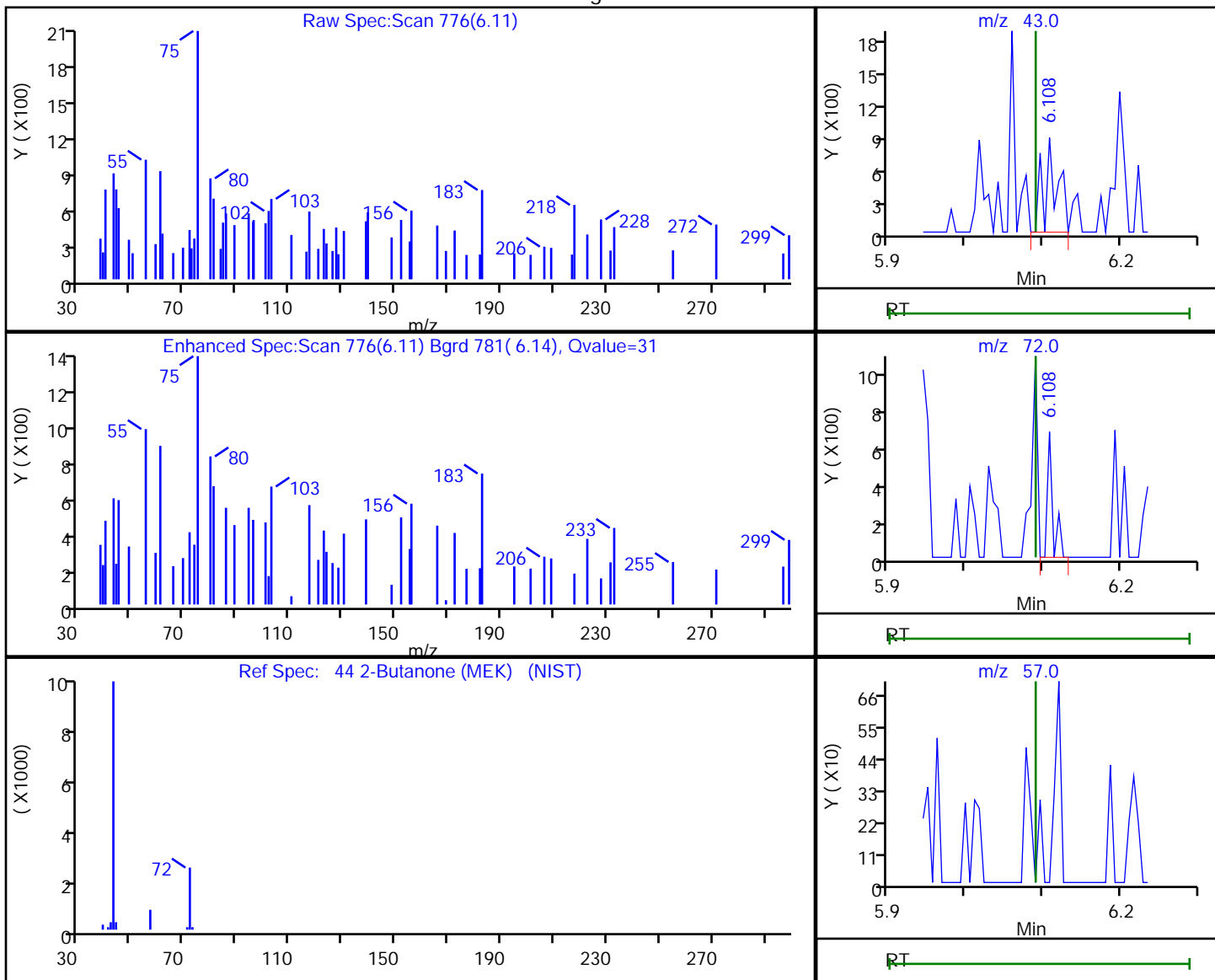
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101923.D
 Injection Date: 19-Oct-2019 23:06:30 Instrument ID: CHHP6
 Lims ID: 180-97133-B-7 Lab Sample ID: 180-97133-7
 Client ID: HD-MW-88-0/1-0
 Operator ID: 433269 ALS Bottle#: 17 Worklist Smp#: 23
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

44 2-Butanone (MEK), CAS: 78-93-3

Processing Results



RT	Mass	Response	Amount
6.11	43.00	1041	0.885605
6.11	72.00	325	
6.09	57.00	0	

Reviewer: bowieh, 22-Oct-2019 10:08:42

Audit Action: Marked Compound Undetected

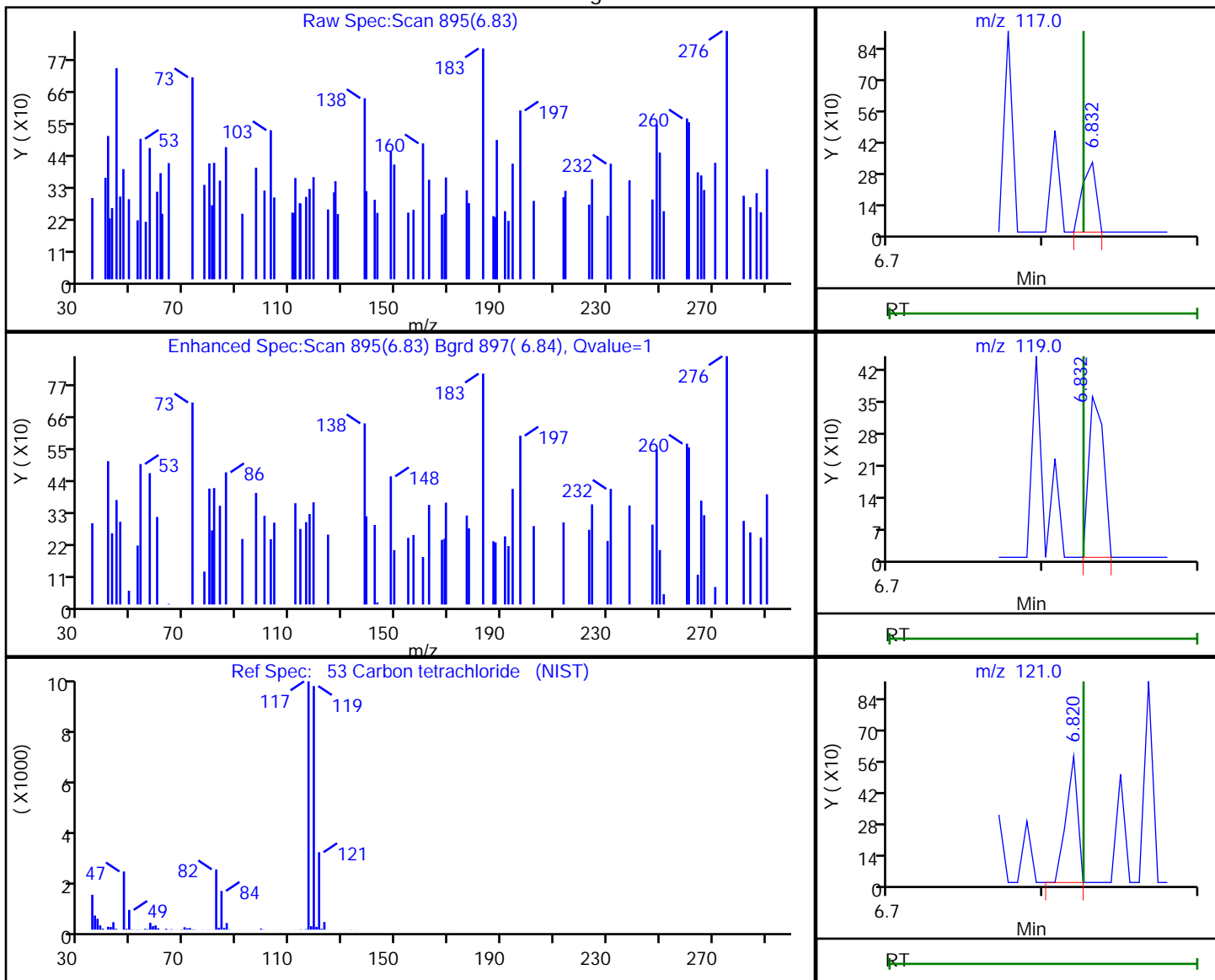
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101923.D
 Injection Date: 19-Oct-2019 23:06:30 Instrument ID: CHHP6
 Lims ID: 180-97133-B-7 Lab Sample ID: 180-97133-7
 Client ID: HD-MW-88-0/1-0
 Operator ID: 433269 ALS Bottle#: 17 Worklist Smp#: 23
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

53 Carbon tetrachloride, CAS: 56-23-5

Processing Results



RT	Mass	Response	Amount
6.83	117.00	196	0.063191
6.83	119.00	238	
6.82	121.00	299	

Reviewer: bowieh, 22-Oct-2019 10:08:45

Audit Action: Marked Compound Undetected

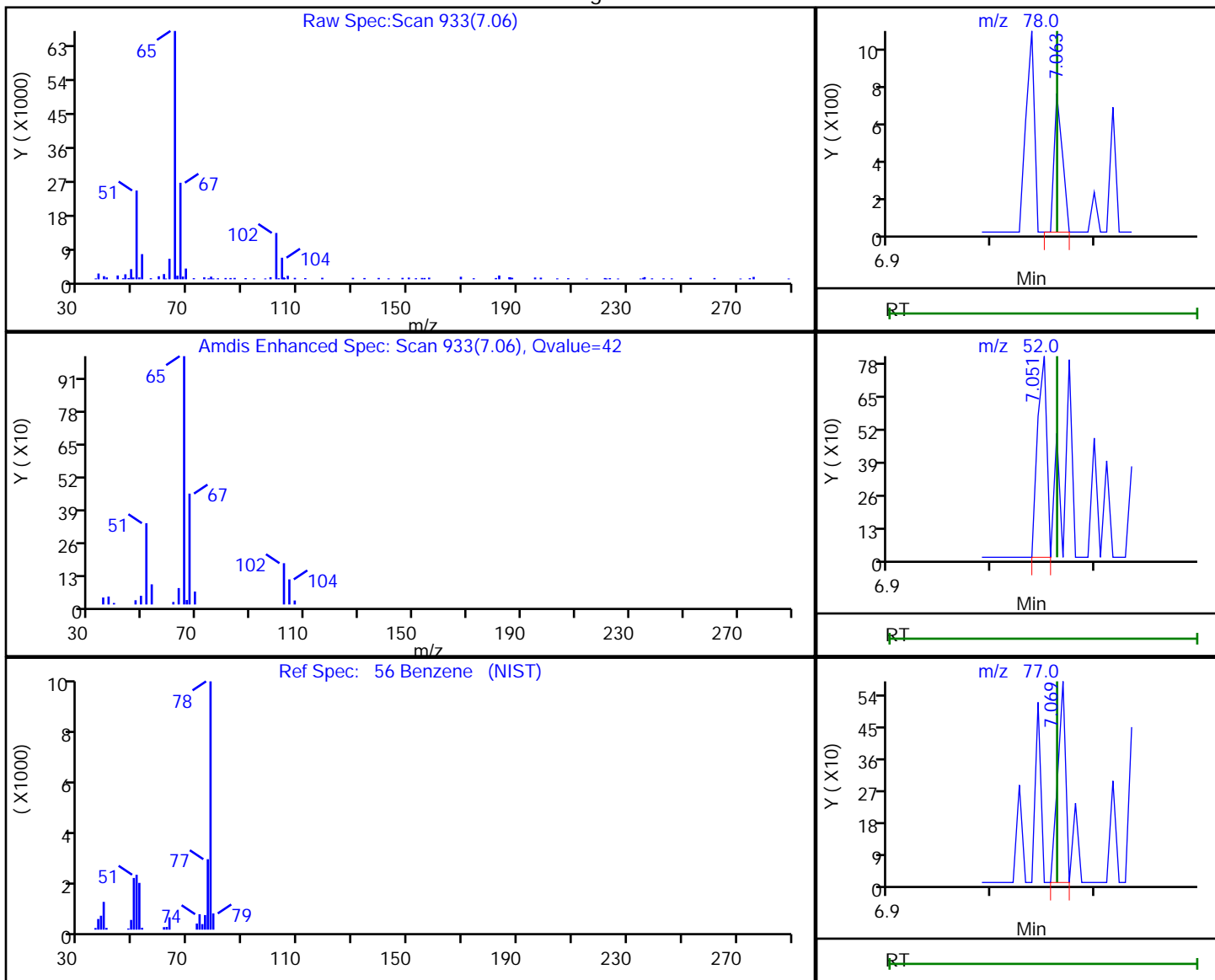
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101923.D
 Injection Date: 19-Oct-2019 23:06:30 Instrument ID: CHHP6
 Lims ID: 180-97133-B-7 Lab Sample ID: 180-97133-7
 Client ID: HD-MW-88-0/1-0
 Operator ID: 433269 ALS Bottle#: 17 Worklist Smp#: 23
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

56 Benzene, CAS: 71-43-2

Processing Results



RT	Mass	Response	Amount
7.06	78.00	391	0.045236
7.05	52.00	499	
7.07	77.00	306	

Reviewer: bowieh, 22-Oct-2019 10:08:46

Audit Action: Marked Compound Undetected

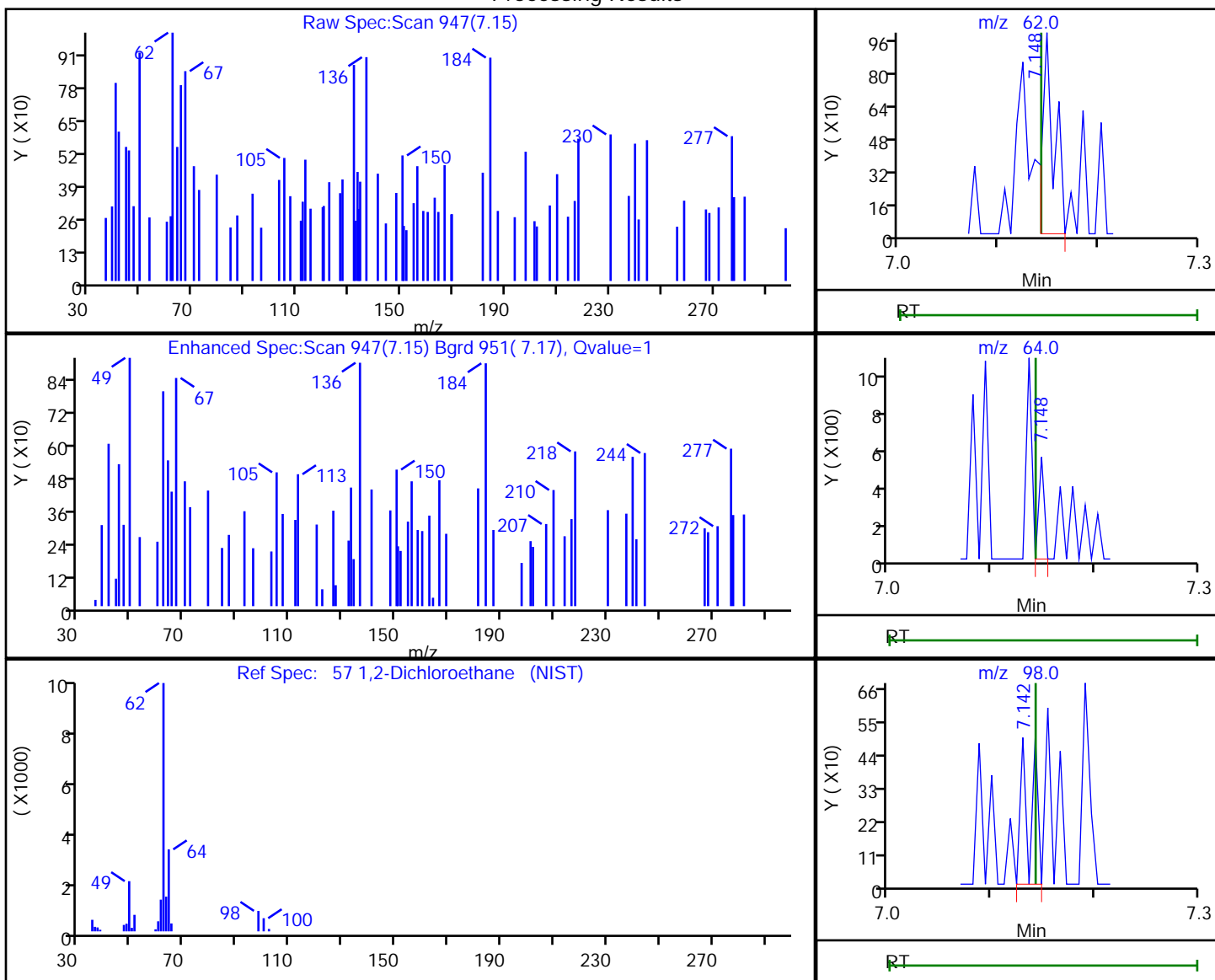
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101923.D
 Injection Date: 19-Oct-2019 23:06:30 Instrument ID: CHHP6
 Lims ID: 180-97133-B-7 Lab Sample ID: 180-97133-7
 Client ID: HD-MW-88-0/1-0
 Operator ID: 433269 ALS Bottle#: 17 Worklist Smp#: 23
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

57 1,2-Dichloroethane, CAS: 107-06-2

Processing Results



RT	Mass	Response	Amount
7.15	62.00	805	0.205546
7.15	64.00	196	
7.14	98.00	361	

Reviewer: bowieh, 22-Oct-2019 10:08:47

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

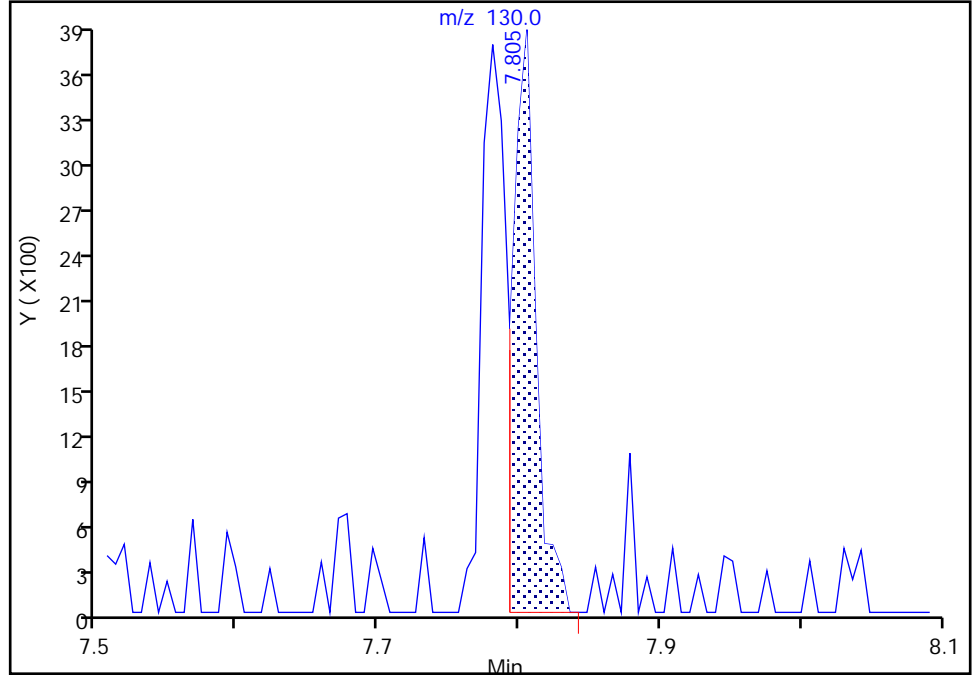
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Injection Date: 19-Oct-2019 23:06:30 Instrument ID: CHHP6
Lims ID: 180-97133-B-7 Lab Sample ID: 180-97133-7
Client ID: HD-MW-88-0/1-0
Operator ID: 433269 ALS Bottle#: 17 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

61 Trichloroethene, CAS: 79-01-6

Signal: 1

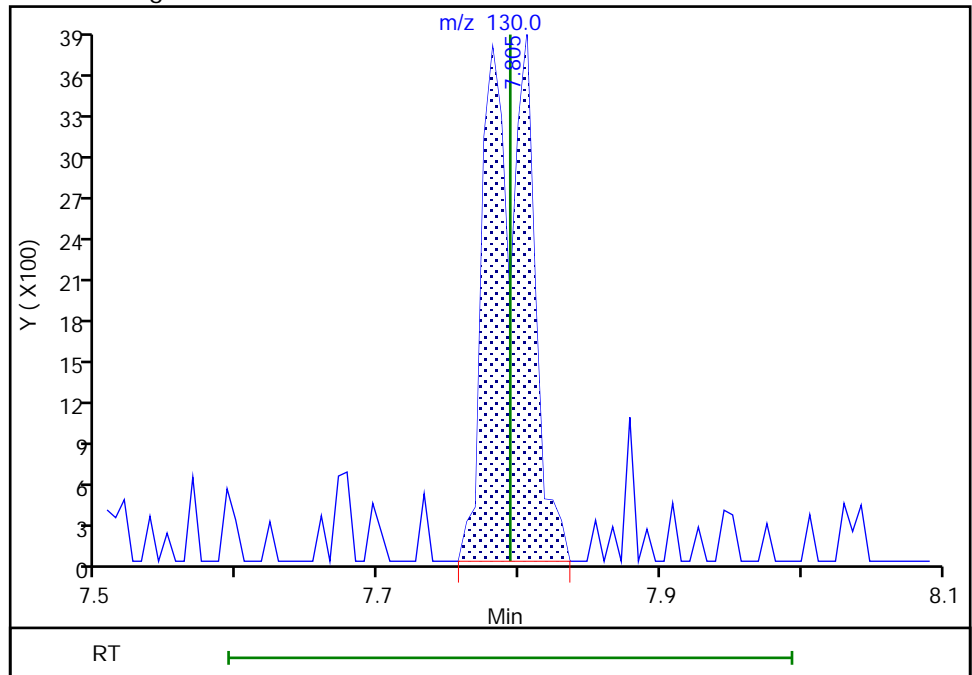
RT: 7.81
Area: 4354
Amount: 1.628608
Amount Units: ng

Processing Integration Results



RT: 7.81
Area: 8249
Amount: 3.085528
Amount Units: ng

Manual Integration Results



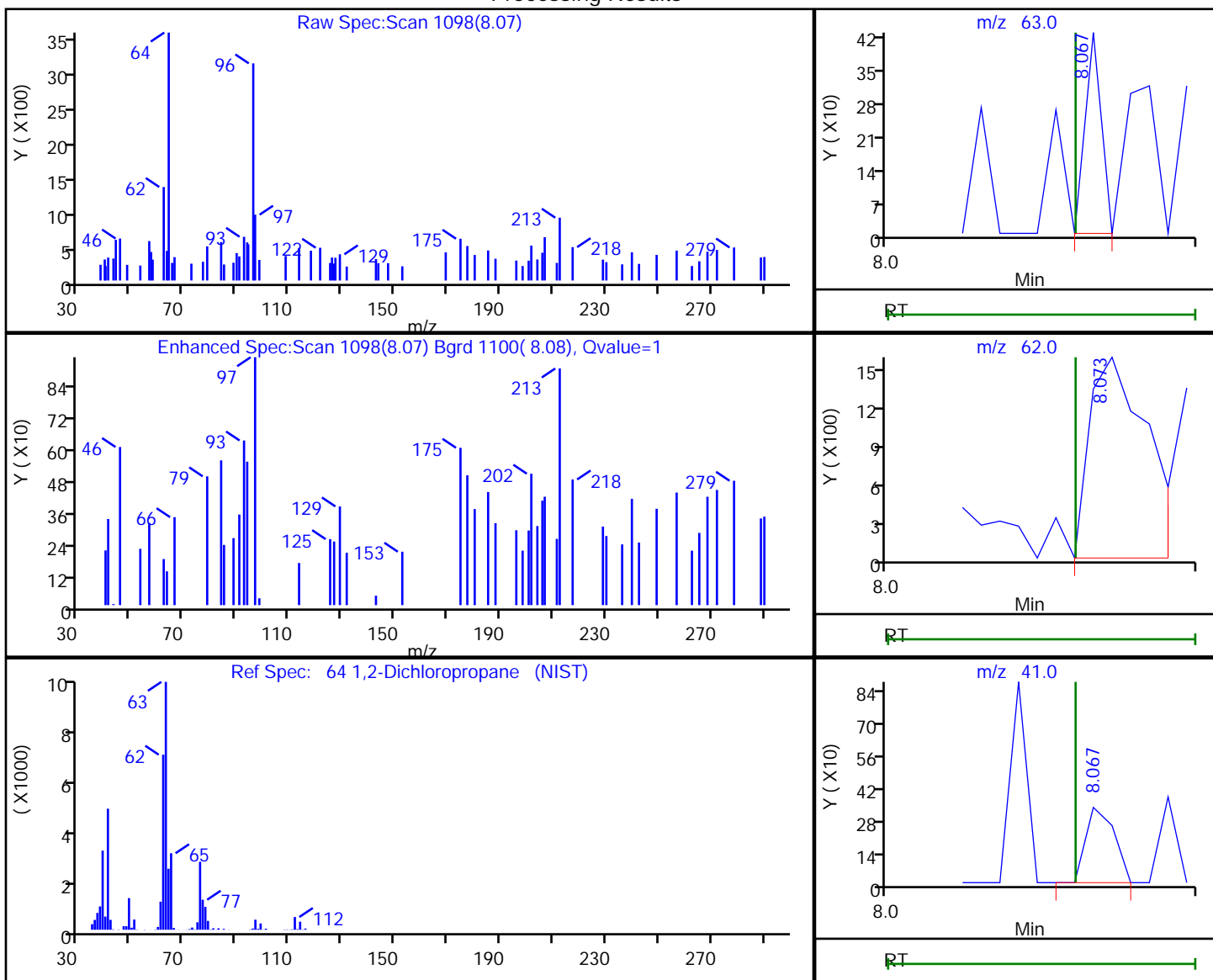
Reviewer: bowieh, 22-Oct-2019 10:08:55
Audit Action: Manually Integrated

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101923.D
 Injection Date: 19-Oct-2019 23:06:30 Instrument ID: CHHP6
 Lims ID: 180-97133-B-7 Lab Sample ID: 180-97133-7
 Client ID: HD-MW-88-0/1-0
 Operator ID: 433269 ALS Bottle#: 17 Worklist Smp#: 23
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

64 1,2-Dichloropropane, CAS: 78-87-5

Processing Results



RT	Mass	Response	Amount
8.07	63.00	155	0.075143
8.07	62.00	2098	
8.07	41.00	211	

Reviewer: bowieh, 22-Oct-2019 10:08:56

Audit Action: Marked Compound Undetected

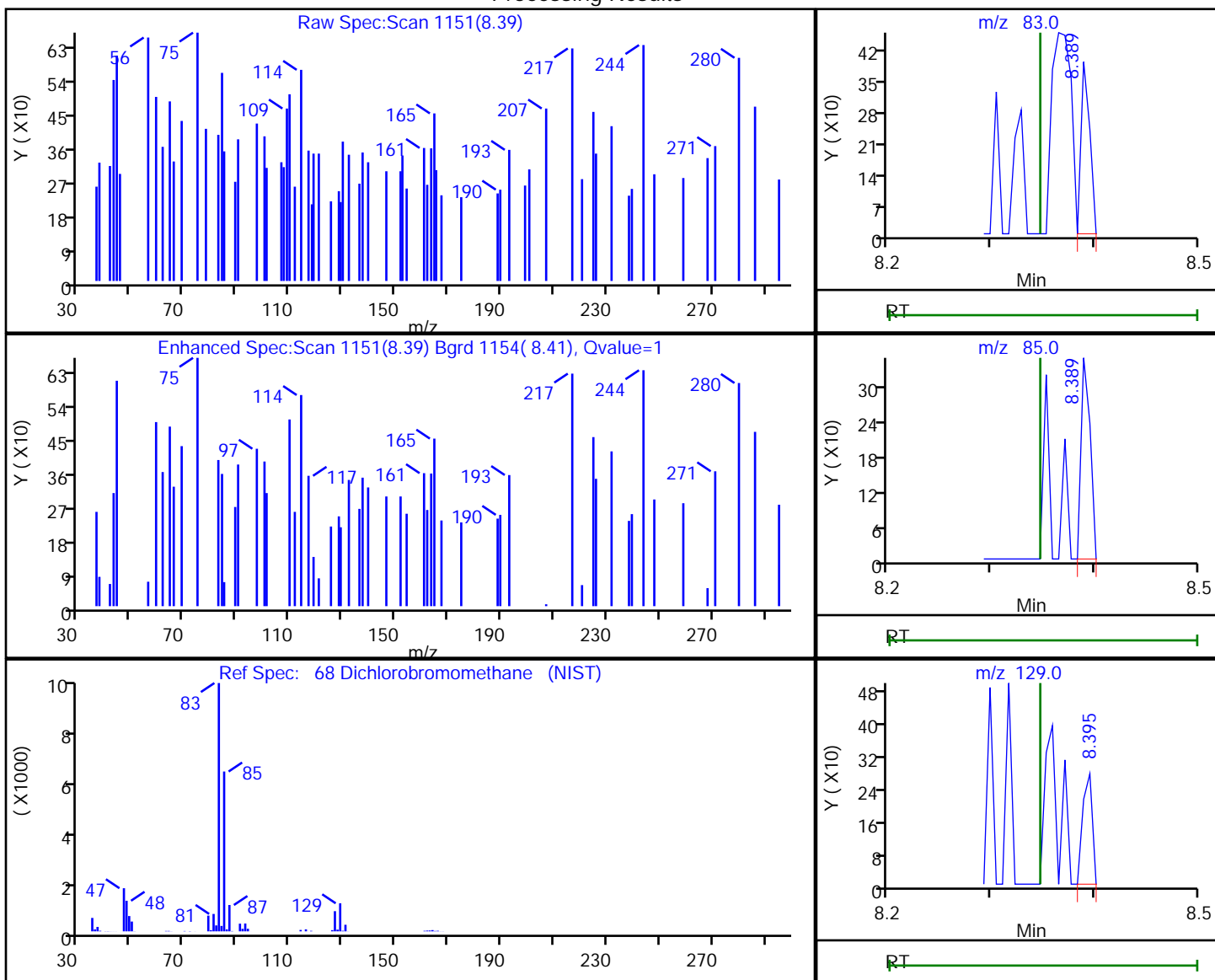
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Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101923.D
Injection Date: 19-Oct-2019 23:06:30 Instrument ID: CHHP6
Lims ID: 180-97133-B-7 Lab Sample ID: 180-97133-7
Client ID: HD-MW-88-0/1-0
Operator ID: 433269 ALS Bottle#: 17 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

68 Dichlorobromomethane, CAS: 75-27-4

Processing Results



RT	Mass	Response	Amount
8.39	83.00	228	0.087424
8.39	85.00	211	
8.40	129.00	176	

Reviewer: bowieh, 22-Oct-2019 10:08:57

Audit Action: Marked Compound Undetected

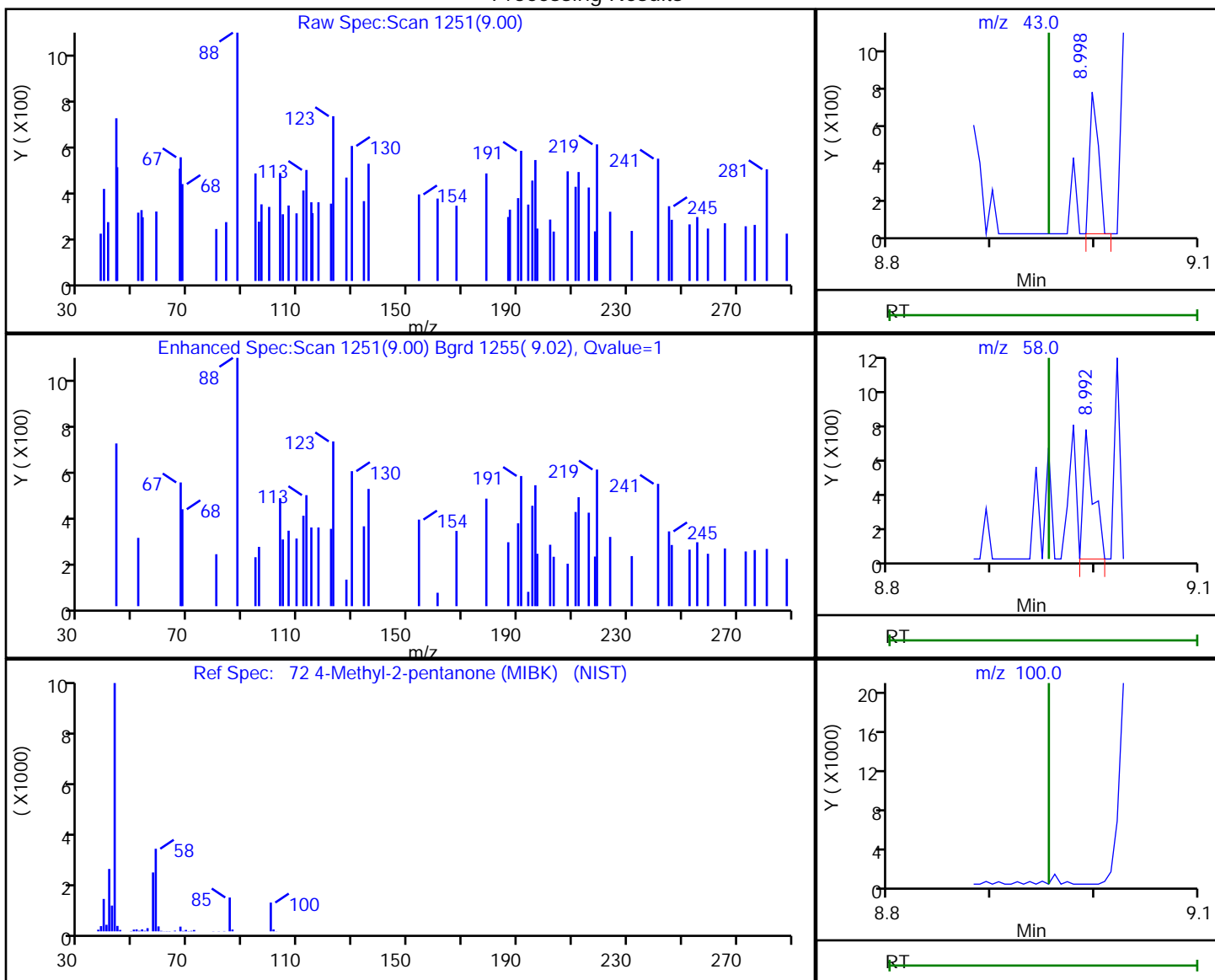
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101923.D
Injection Date: 19-Oct-2019 23:06:30 Instrument ID: CHHP6
Lims ID: 180-97133-B-7 Lab Sample ID: 180-97133-7
Client ID: HD-MW-88-0/1-0
Operator ID: 433269 ALS Bottle#: 17 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

72 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
9.00	43.00	417	0.225346
8.99	58.00	487	
8.96	100.00	0	

Reviewer: bowieh, 22-Oct-2019 10:08:59

Audit Action: Marked Compound Undetected

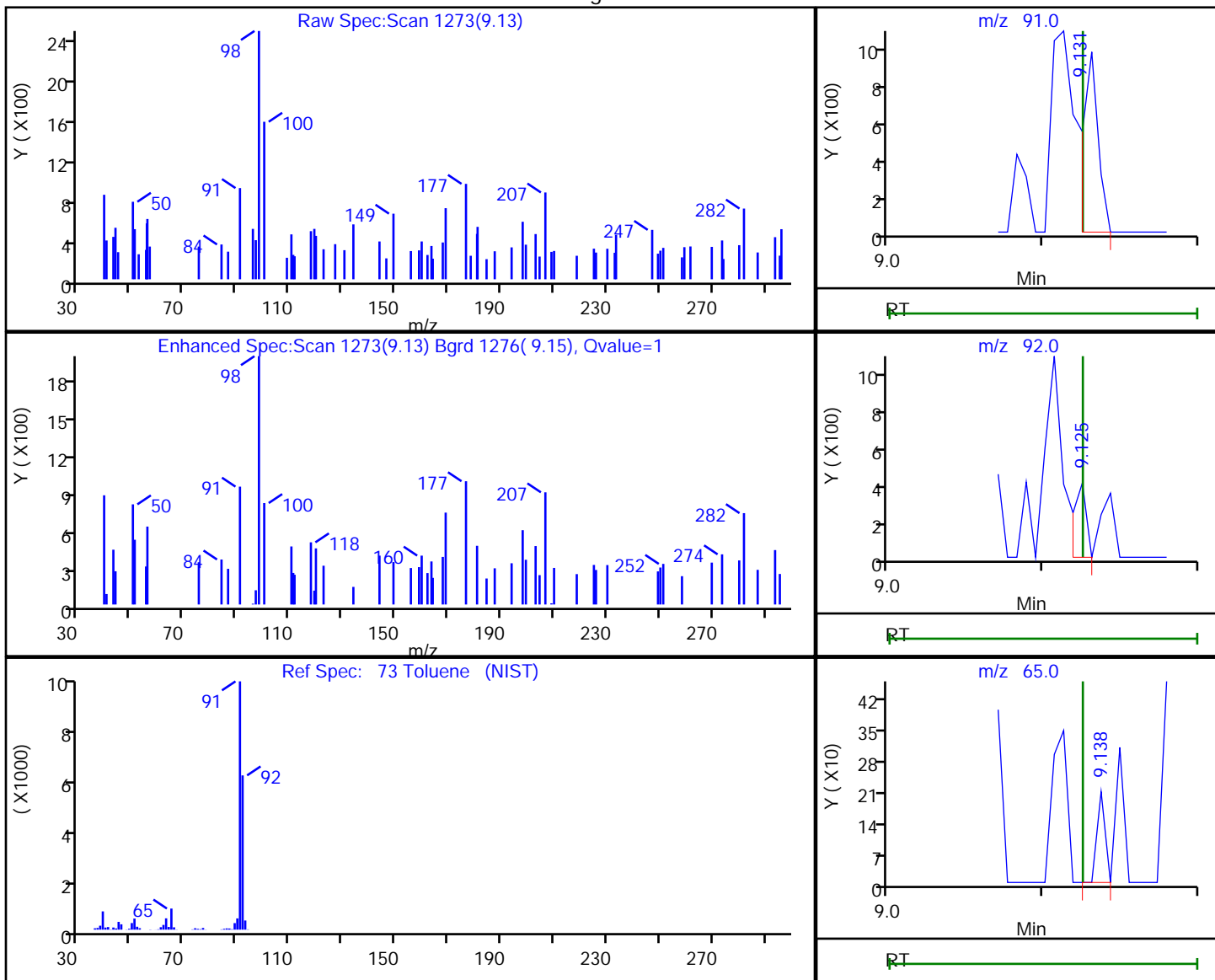
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101923.D
Injection Date: 19-Oct-2019 23:06:30 Instrument ID: CHHP6
Lims ID: 180-97133-B-7 Lab Sample ID: 180-97133-7
Client ID: HD-MW-88-0/1-0
Operator ID: 433269 ALS Bottle#: 17 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

73 Toluene, CAS: 108-88-3

Processing Results



RT	Mass	Response	Amount
9.13	91.00	625	0.063644
9.13	92.00	238	
9.14	65.00	75	

Reviewer: bowieh, 22-Oct-2019 10:09:00

Audit Action: Marked Compound Undetected

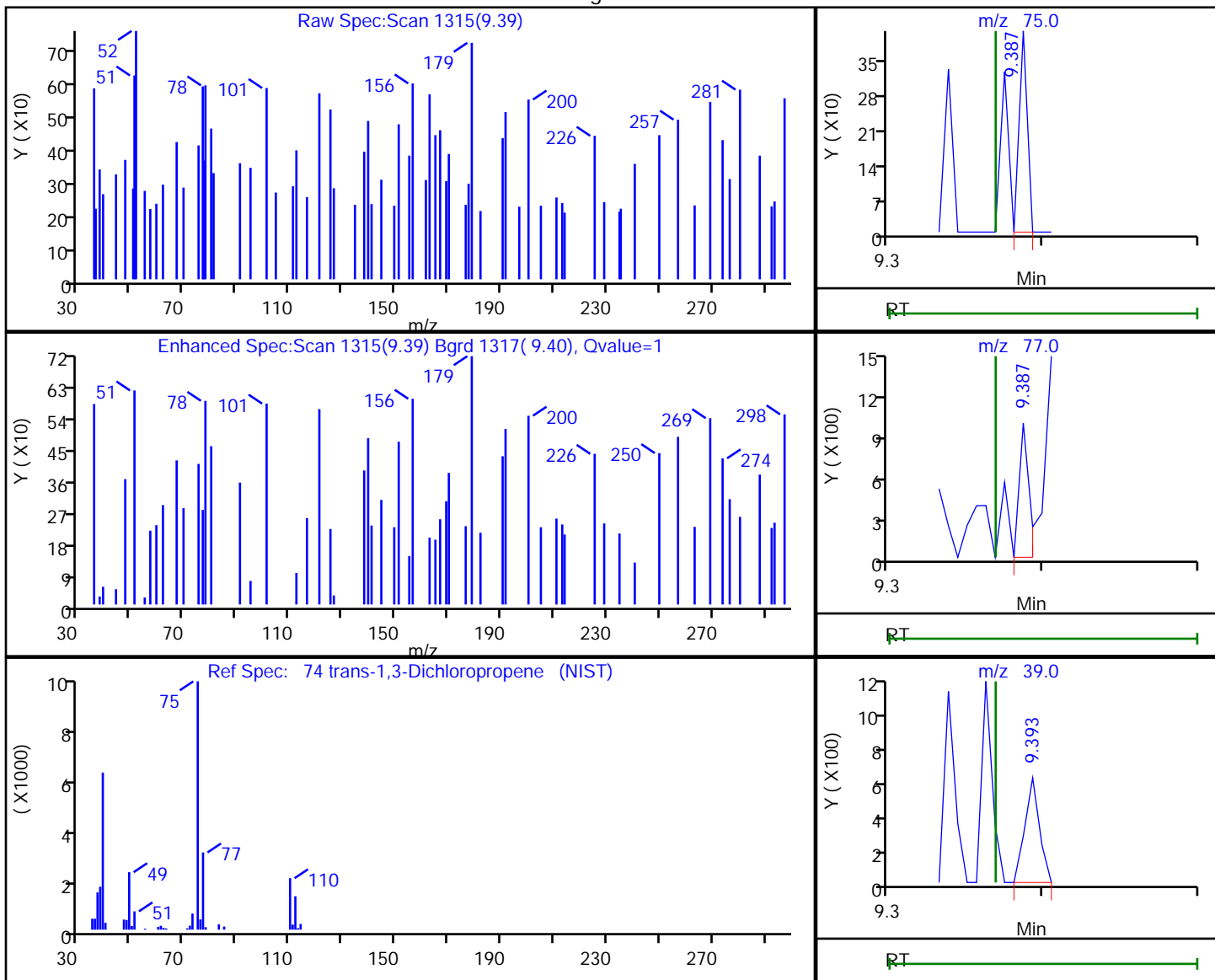
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101923.D
 Injection Date: 19-Oct-2019 23:06:30 Instrument ID: CHHP6
 Lims ID: 180-97133-B-7 Lab Sample ID: 180-97133-7
 Client ID: HD-MW-88-0/1-0
 Operator ID: 433269 ALS Bottle#: 17 Worklist Smp#: 23
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

74 trans-1,3-Dichloropropene, CAS: 10061-02-6

Processing Results



RT	Mass	Response	Amount
9.39	75.00	148	1.810082
9.39	77.00	423	
9.39	39.00	382	

Reviewer: bowieh, 22-Oct-2019 10:09:02

Audit Action: Marked Compound Undetected

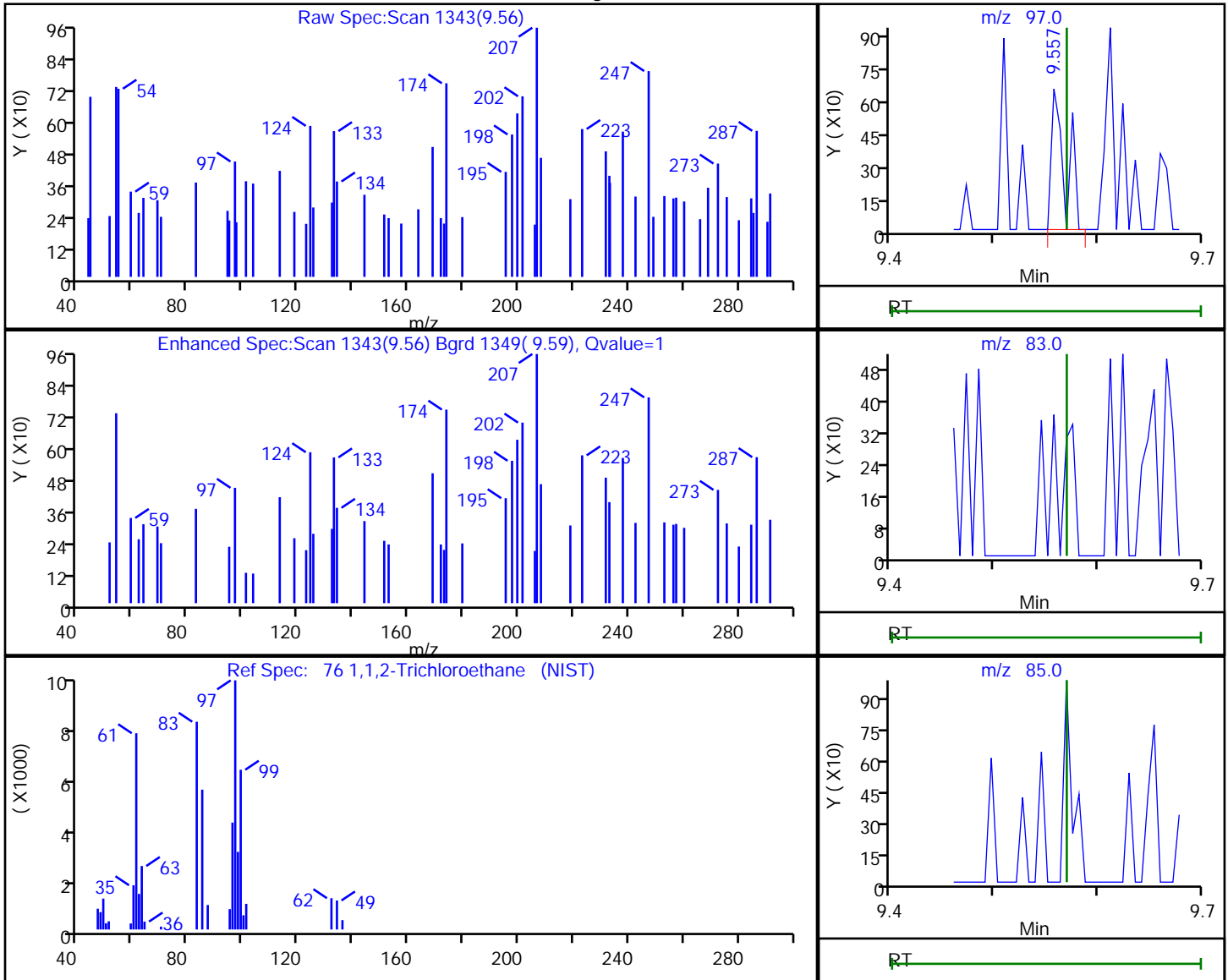
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101923.D
Injection Date: 19-Oct-2019 23:06:30 Instrument ID: CHHP6
Lims ID: 180-97133-B-7 Lab Sample ID: 180-97133-7
Client ID: HD-MW-88-0/1-0
Operator ID: 433269 ALS Bottle#: 17 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

76 1,1,2-Trichloroethane, CAS: 79-00-5

Processing Results



RT	Mass	Response	Amount
9.56	97.00	607	0.334967
9.57	83.00	0	
9.57	85.00	0	

Reviewer: bowieh, 22-Oct-2019 10:09:03

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

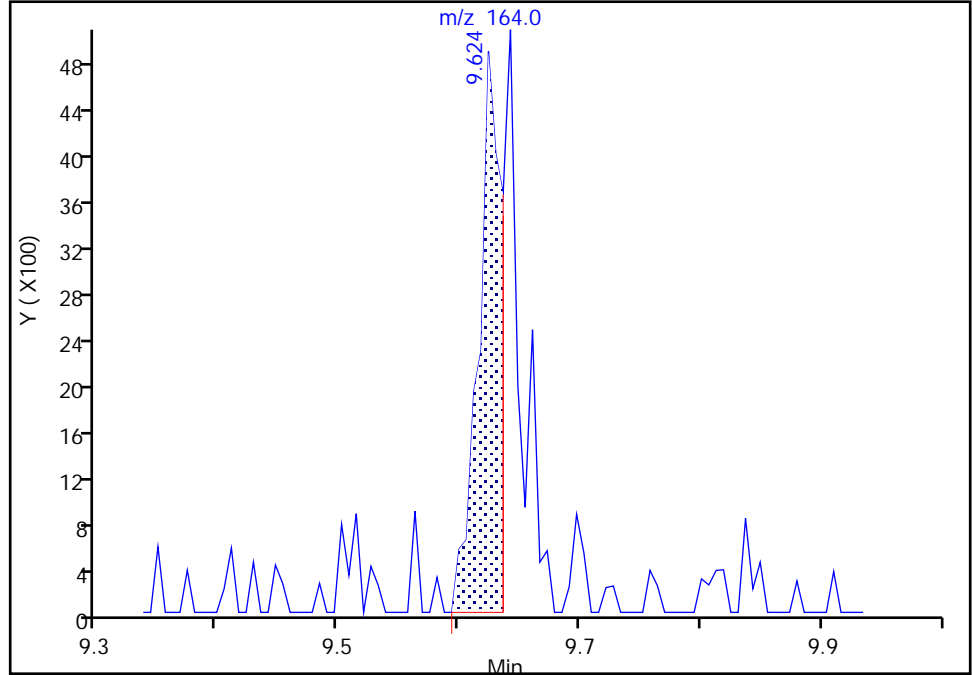
Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101923.D
Injection Date: 19-Oct-2019 23:06:30 Instrument ID: CHHP6
Lims ID: 180-97133-B-7 Lab Sample ID: 180-97133-7
Client ID: HD-MW-88-0/1-0
Operator ID: 433269 ALS Bottle#: 17 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

77 Tetrachloroethene, CAS: 127-18-4

Signal: 1

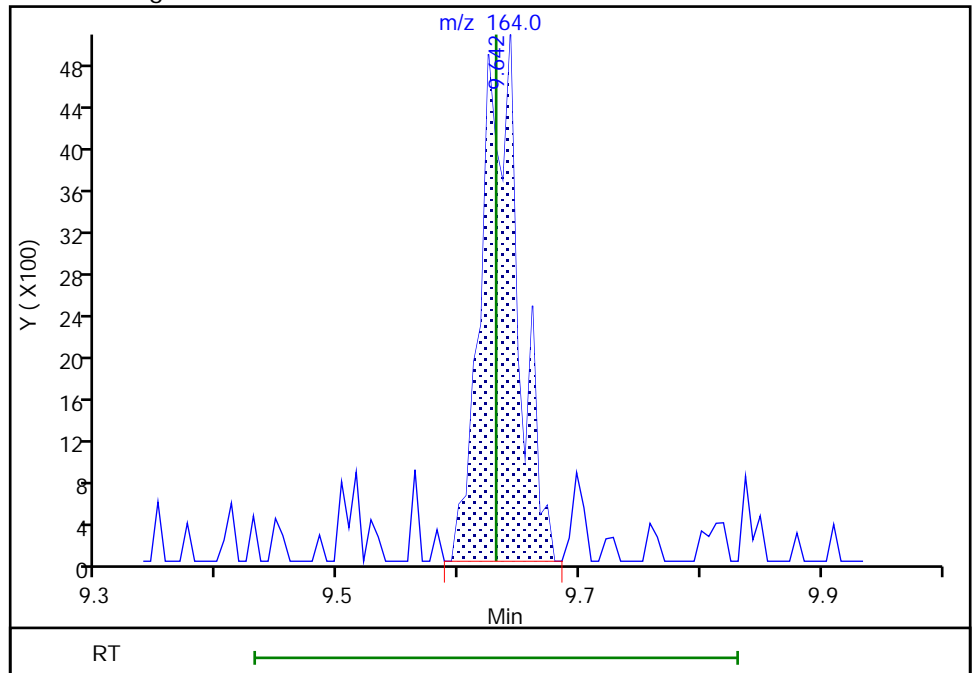
RT: 9.62
Area: 6540
Amount: 3.166506
Amount Units: ng

Processing Integration Results



RT: 9.64
Area: 10707
Amount: 5.184064
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 22-Oct-2019 10:09:09
Audit Action: Manually Integrated

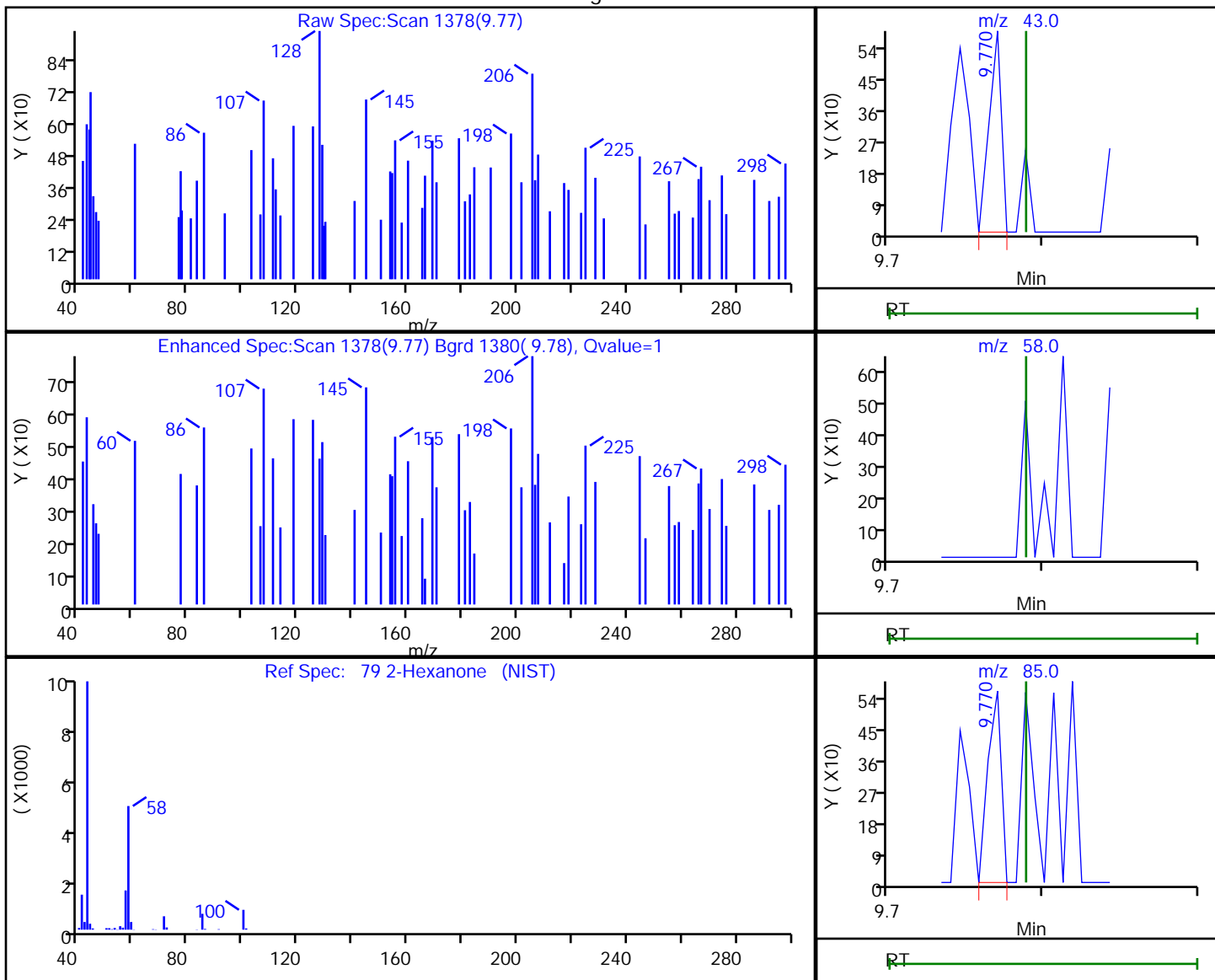
Audit Reason: Poor chromatography
Page 386 of 638

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101923.D
 Injection Date: 19-Oct-2019 23:06:30 Instrument ID: CHHP6
 Lims ID: 180-97133-B-7 Lab Sample ID: 180-97133-7
 Client ID: HD-MW-88-0/1-0
 Operator ID: 433269 ALS Bottle#: 17 Worklist Smp#: 23
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

79 2-Hexanone, CAS: 591-78-6

Processing Results



RT	Mass	Response	Amount
9.77	43.00	322	0.211802
9.79	58.00	0	
9.77	85.00	334	

Reviewer: bowieh, 22-Oct-2019 10:09:10

Audit Action: Marked Compound Undetected

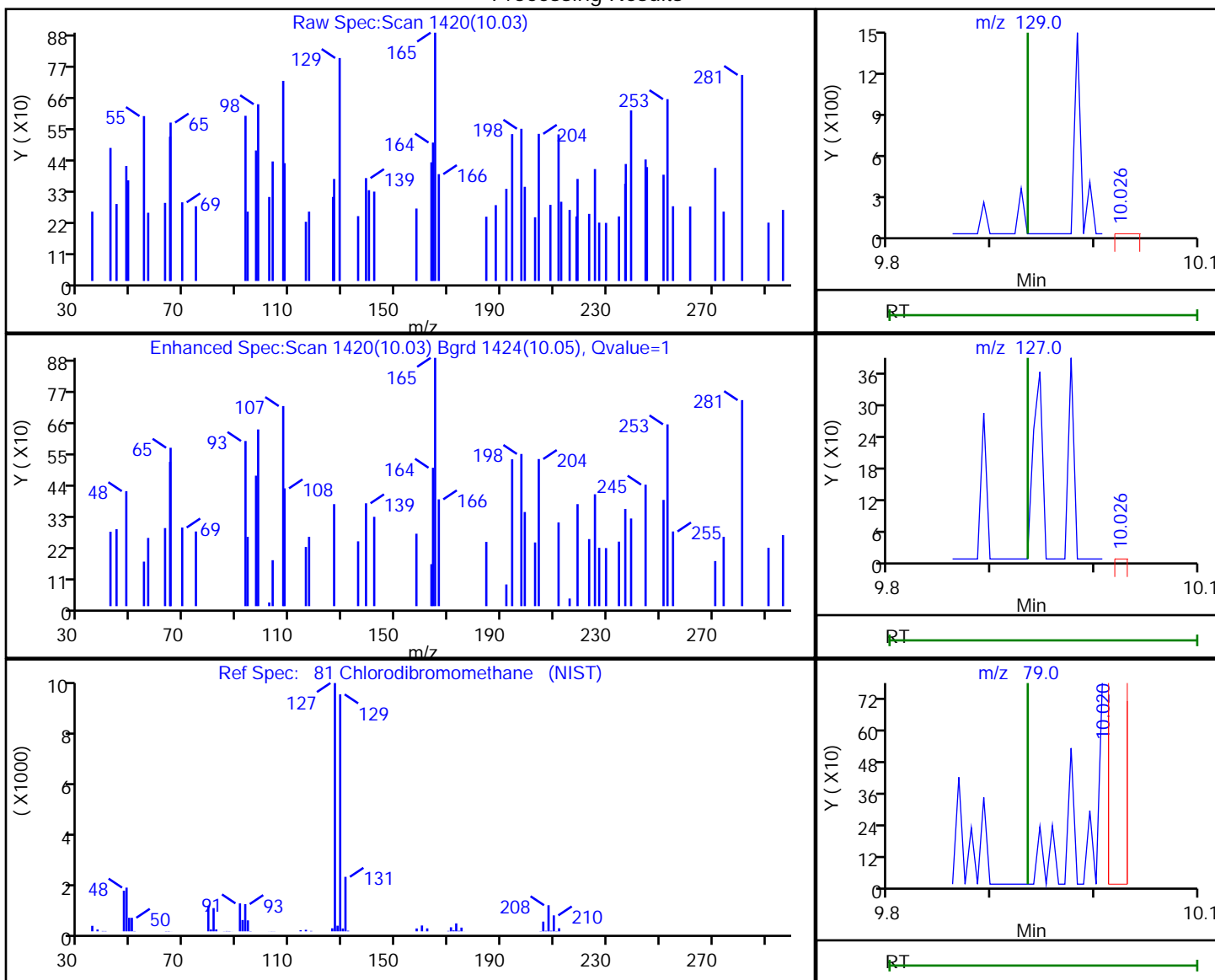
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101923.D
 Injection Date: 19-Oct-2019 23:06:30 Instrument ID: CHHP6
 Lims ID: 180-97133-B-7 Lab Sample ID: 180-97133-7
 Client ID: HD-MW-88-0/1-0
 Operator ID: 433269 ALS Bottle#: 17 Worklist Smp#: 23
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

81 Chlorodibromomethane, CAS: 124-48-1

Processing Results



RT	Mass	Response	Amount
10.03	129.00	527	0.298019
10.03	127.00	132	
10.02	79.00	97	

Reviewer: bowieh, 22-Oct-2019 10:09:12

Audit Action: Marked Compound Undetected

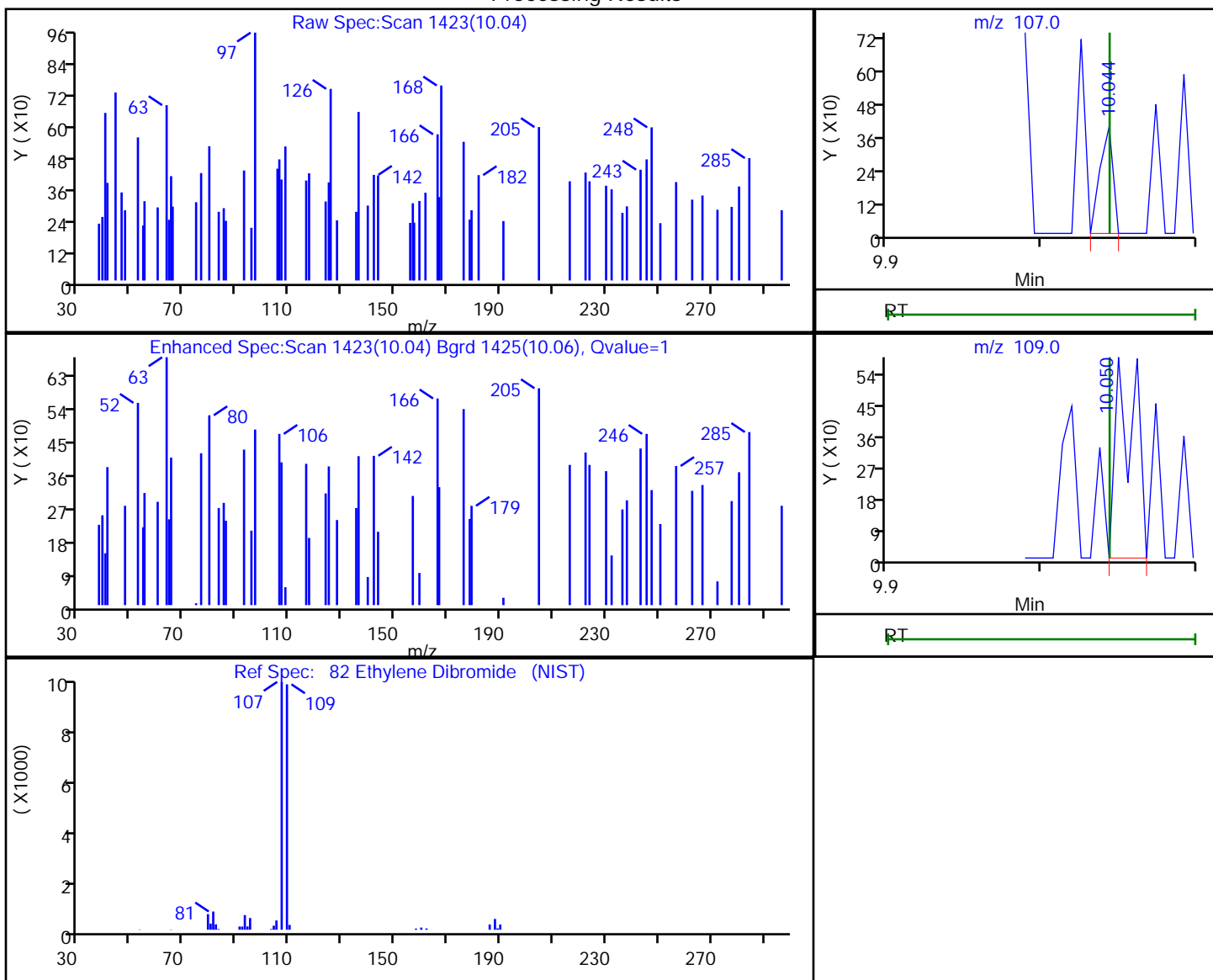
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101923.D
Injection Date: 19-Oct-2019 23:06:30 Instrument ID: CHHP6
Lims ID: 180-97133-B-7 Lab Sample ID: 180-97133-7
Client ID: HD-MW-88-0/1-0
Operator ID: 433269 ALS Bottle#: 17 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

82 Ethylene Dibromide, CAS: 106-93-4

Processing Results



RT	Mass	Response	Amount
10.04	107.00	229	0.124302
10.05	109.00	510	

Reviewer: bowieh, 22-Oct-2019 10:09:13

Audit Action: Marked Compound Undetected

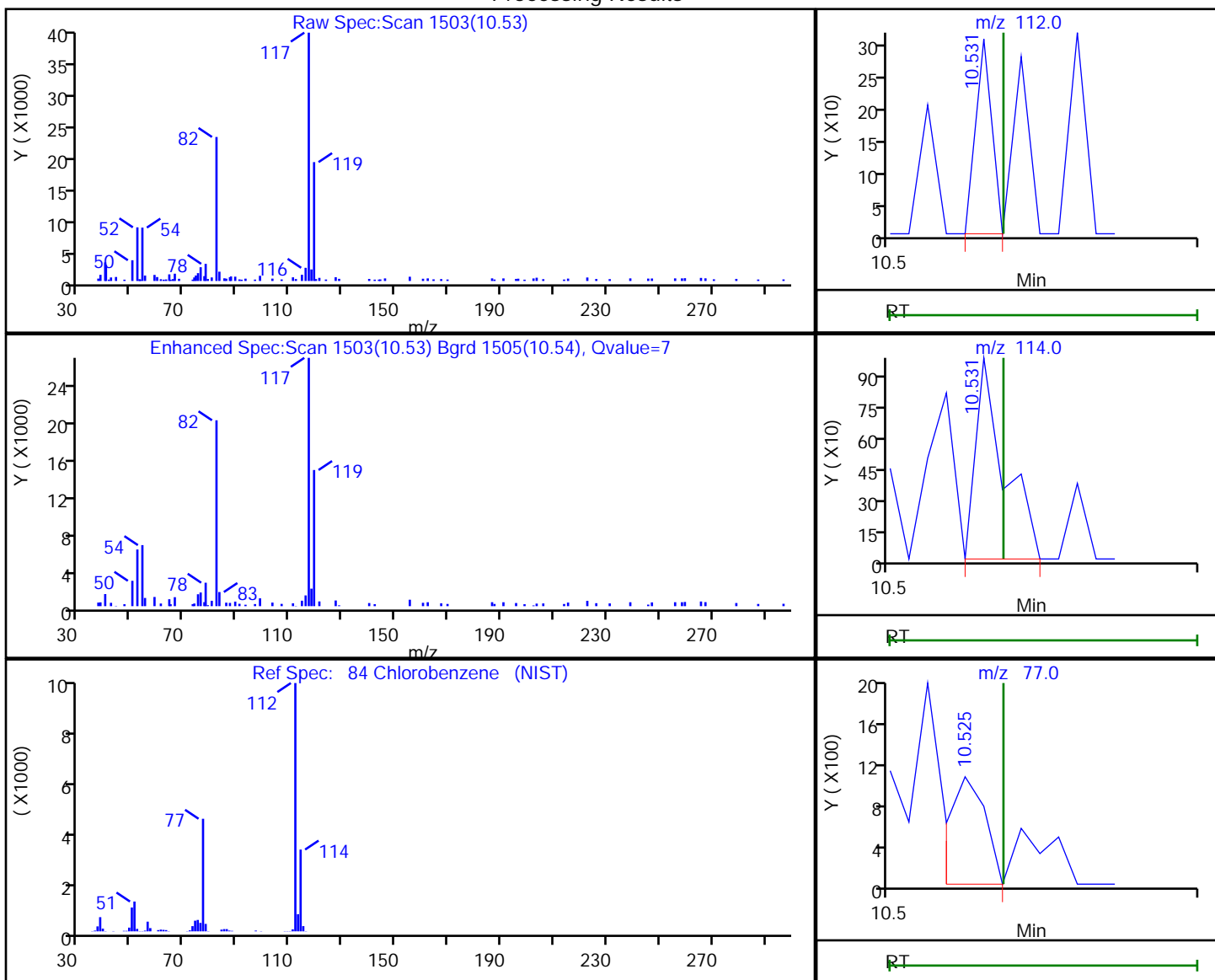
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101923.D
 Injection Date: 19-Oct-2019 23:06:30 Instrument ID: CHHP6
 Lims ID: 180-97133-B-7 Lab Sample ID: 180-97133-7
 Client ID: HD-MW-88-0/1-0
 Operator ID: 433269 ALS Bottle#: 17 Worklist Smp#: 23
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

84 Chlorobenzene, CAS: 108-90-7

Processing Results



RT	Mass	Response	Amount
10.53	112.00	112	0.017180
10.53	114.00	638	
10.52	77.00	894	

Reviewer: bowieh, 22-Oct-2019 10:09:14

Audit Action: Marked Compound Undetected

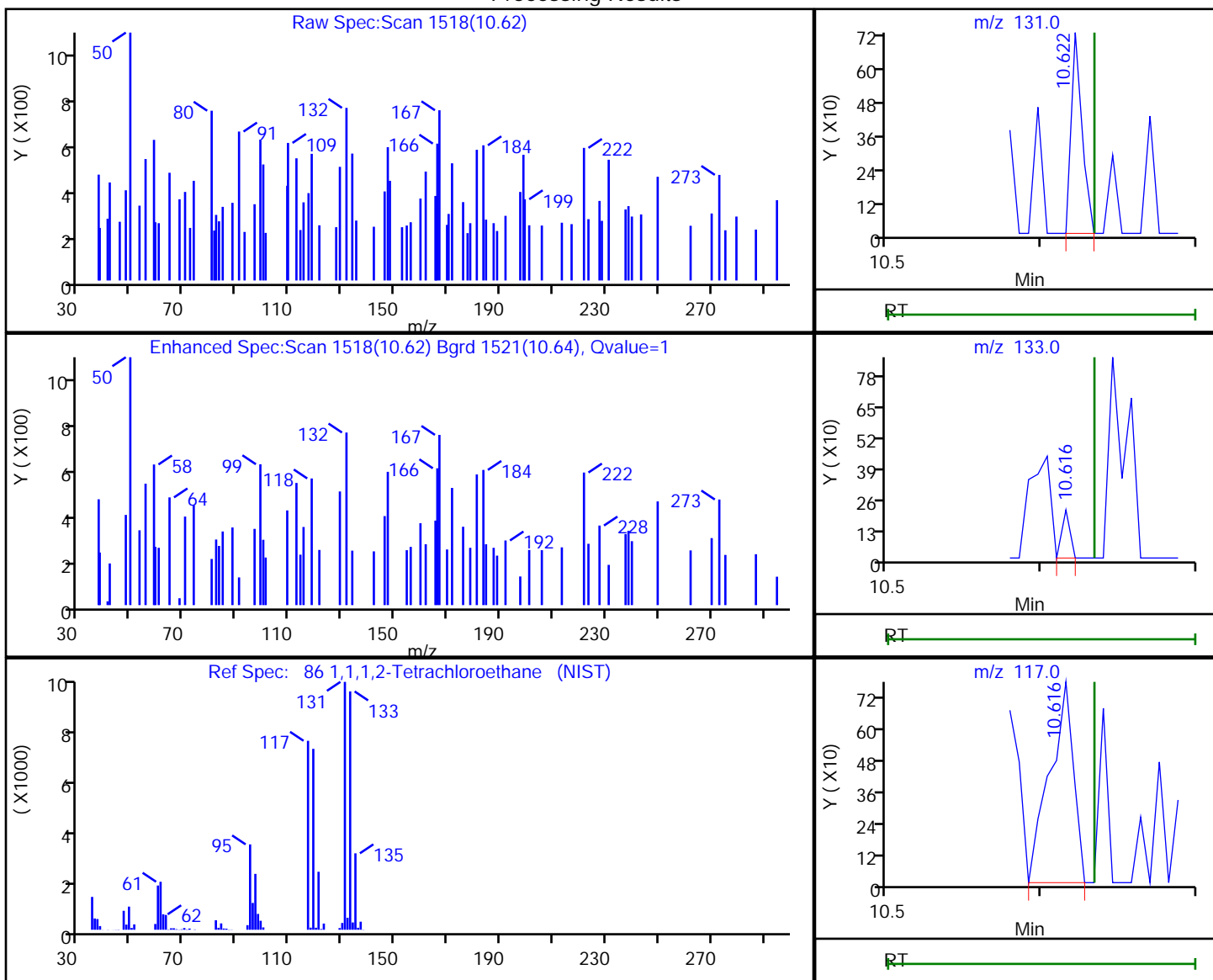
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101923.D
 Injection Date: 19-Oct-2019 23:06:30 Instrument ID: CHHP6
 Lims ID: 180-97133-B-7 Lab Sample ID: 180-97133-7
 Client ID: HD-MW-88-0/1-0
 Operator ID: 433269 ALS Bottle#: 17 Worklist Smp#: 23
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

86 1,1,1,2-Tetrachloroethane, CAS: 630-20-6

Processing Results



RT	Mass	Response	Amount
10.62	131.00	358	0.171529
10.62	133.00	75	
10.62	117.00	831	

Reviewer: bowieh, 22-Oct-2019 10:09:17

Audit Action: Marked Compound Undetected

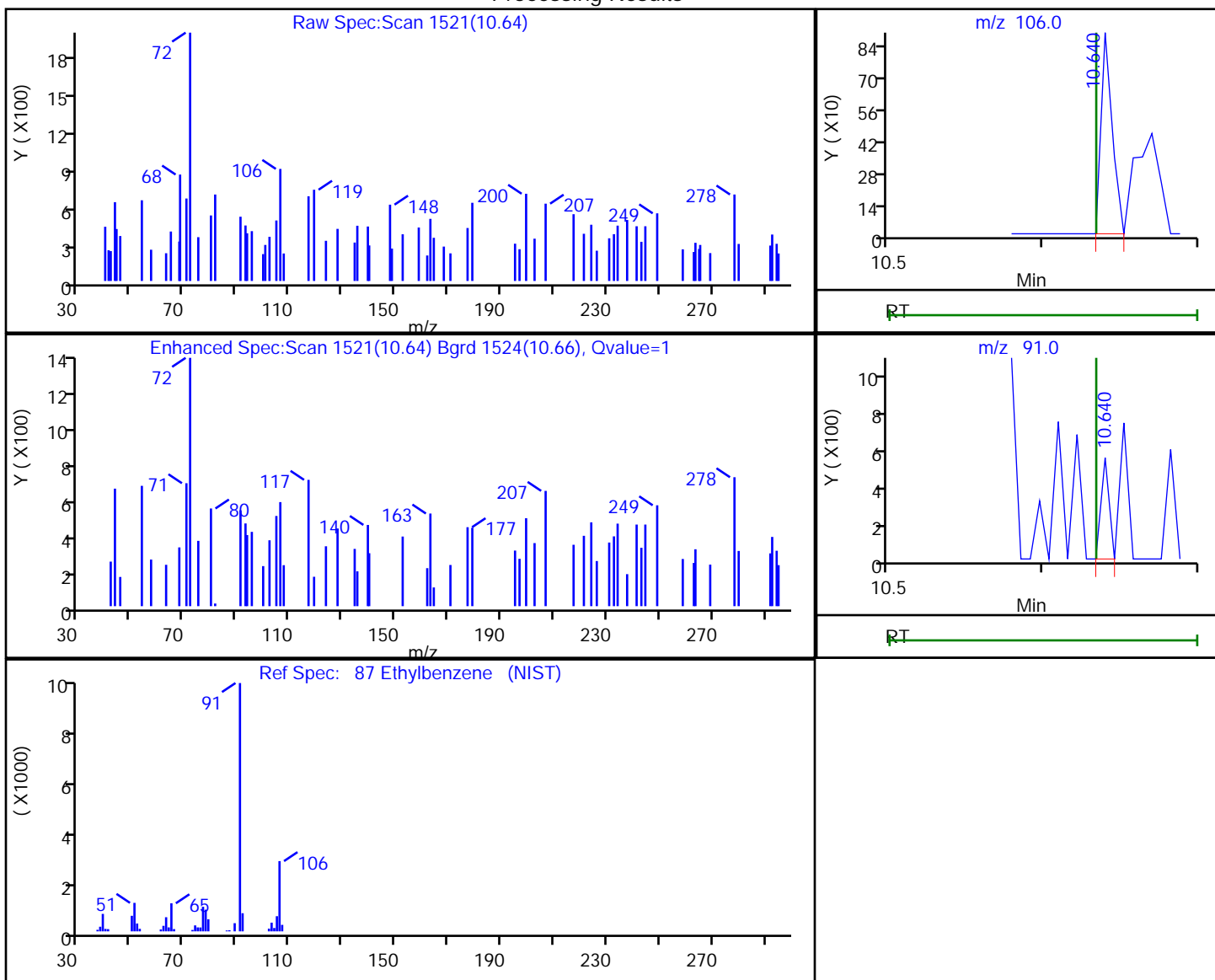
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101923.D
 Injection Date: 19-Oct-2019 23:06:30 Instrument ID: CHHP6
 Lims ID: 180-97133-B-7 Lab Sample ID: 180-97133-7
 Client ID: HD-MW-88-0/1-0
 Operator ID: 433269 ALS Bottle#: 17 Worklist Smp#: 23
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

87 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
10.64	106.00	450	0.117768
10.64	91.00	187	

Reviewer: bowieh, 22-Oct-2019 10:09:15

Audit Action: Marked Compound Undetected

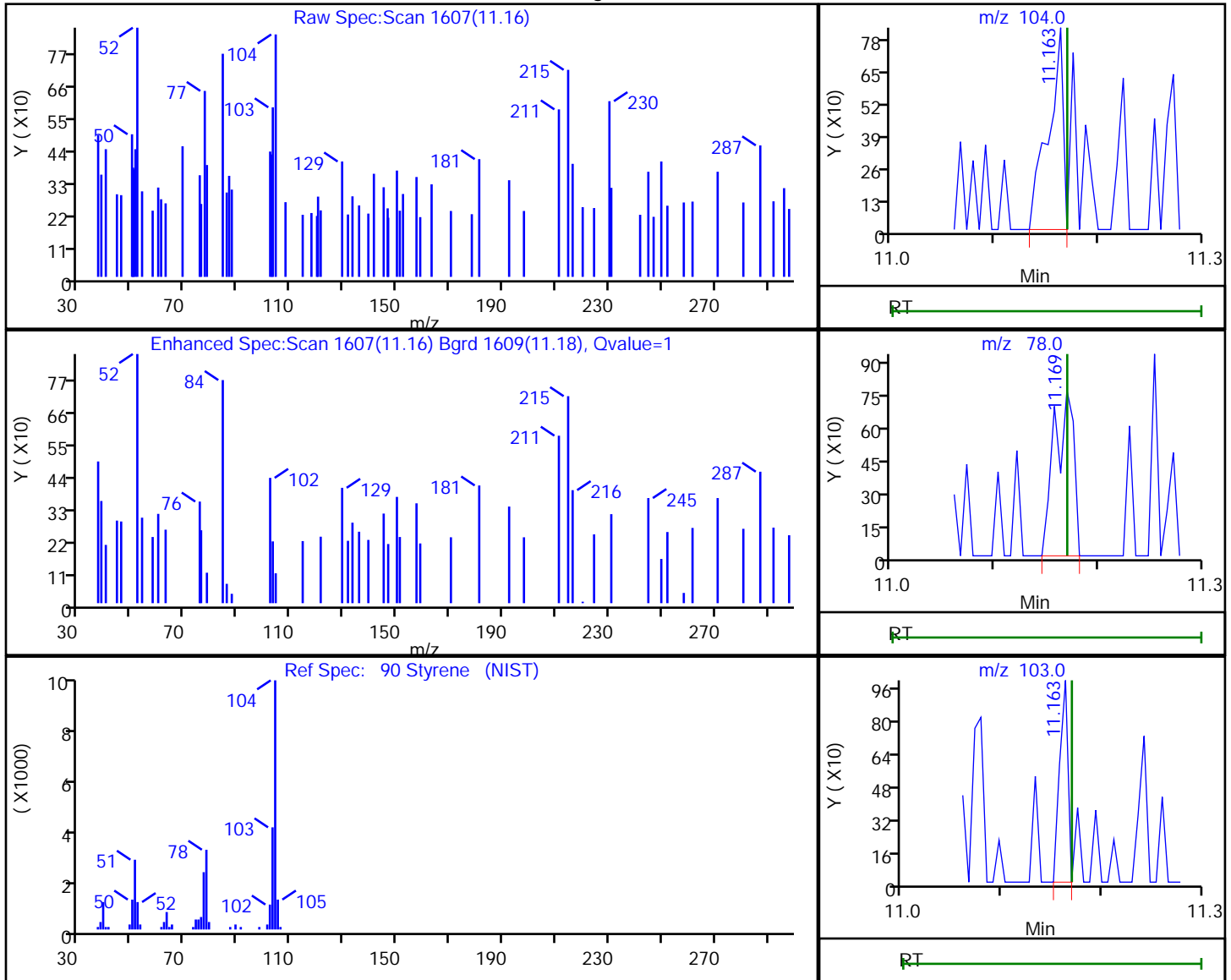
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101923.D
 Injection Date: 19-Oct-2019 23:06:30 Instrument ID: CHHP6
 Lims ID: 180-97133-B-7 Lab Sample ID: 180-97133-7
 Client ID: HD-MW-88-0/1-0
 Operator ID: 433269 ALS Bottle#: 17 Worklist Smp#: 23
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

90 Styrene, CAS: 100-42-5

Processing Results



RT	Mass	Response	Amount
11.16	104.00	823	0.115380
11.17	78.00	994	
11.16	103.00	575	

Reviewer: bowieh, 22-Oct-2019 10:09:29

Audit Action: Marked Compound Undetected

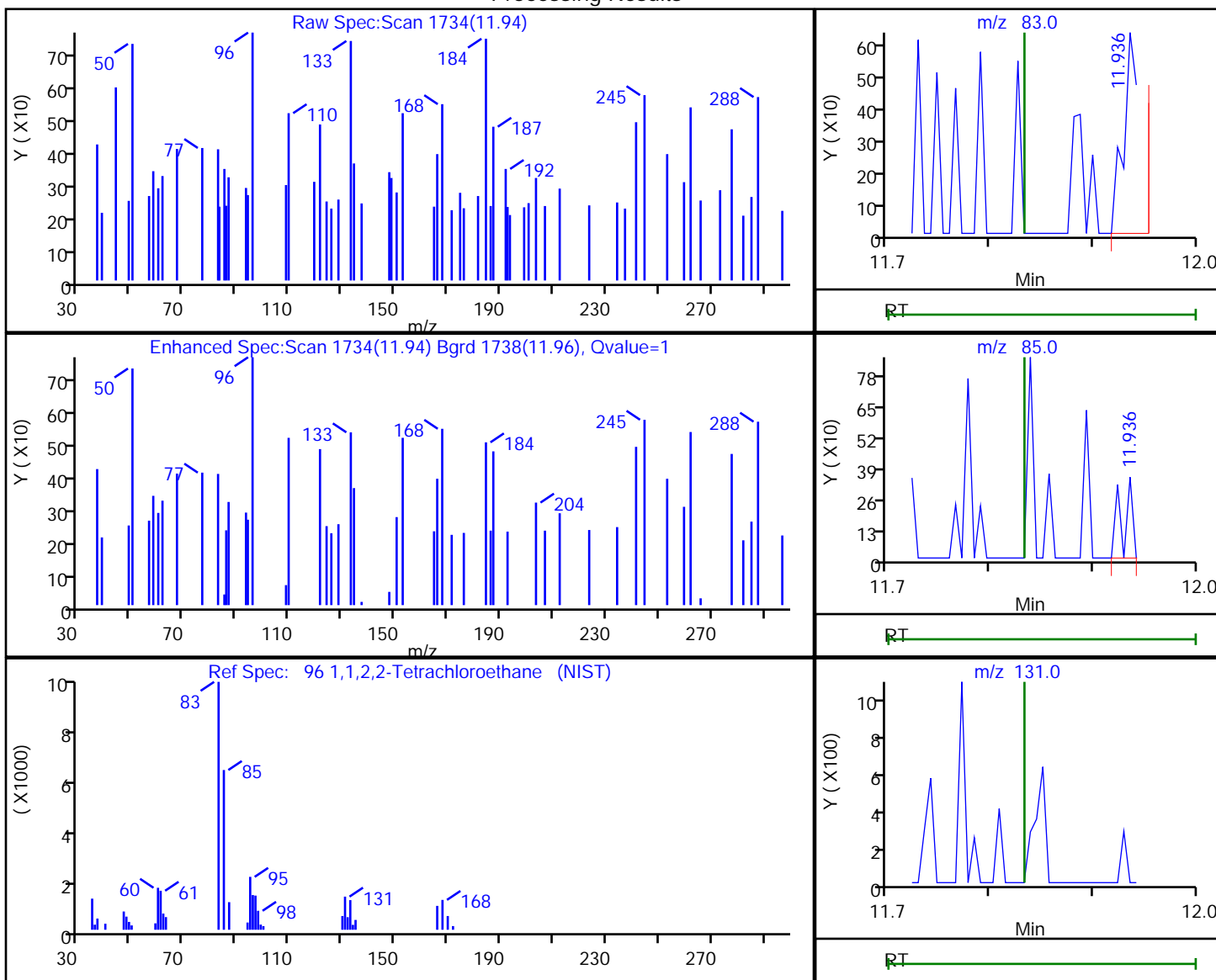
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101923.D
 Injection Date: 19-Oct-2019 23:06:30 Instrument ID: CHHP6
 Lims ID: 180-97133-B-7 Lab Sample ID: 180-97133-7
 Client ID: HD-MW-88-0/1-0
 Operator ID: 433269 ALS Bottle#: 17 Worklist Smp#: 23
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

96 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Processing Results



RT	Mass	Response	Amount
11.94	83.00	687	0.357231
11.94	85.00	241	
11.83	131.00	0	

Reviewer: bowieh, 22-Oct-2019 10:09:30

Audit Action: Marked Compound Undetected

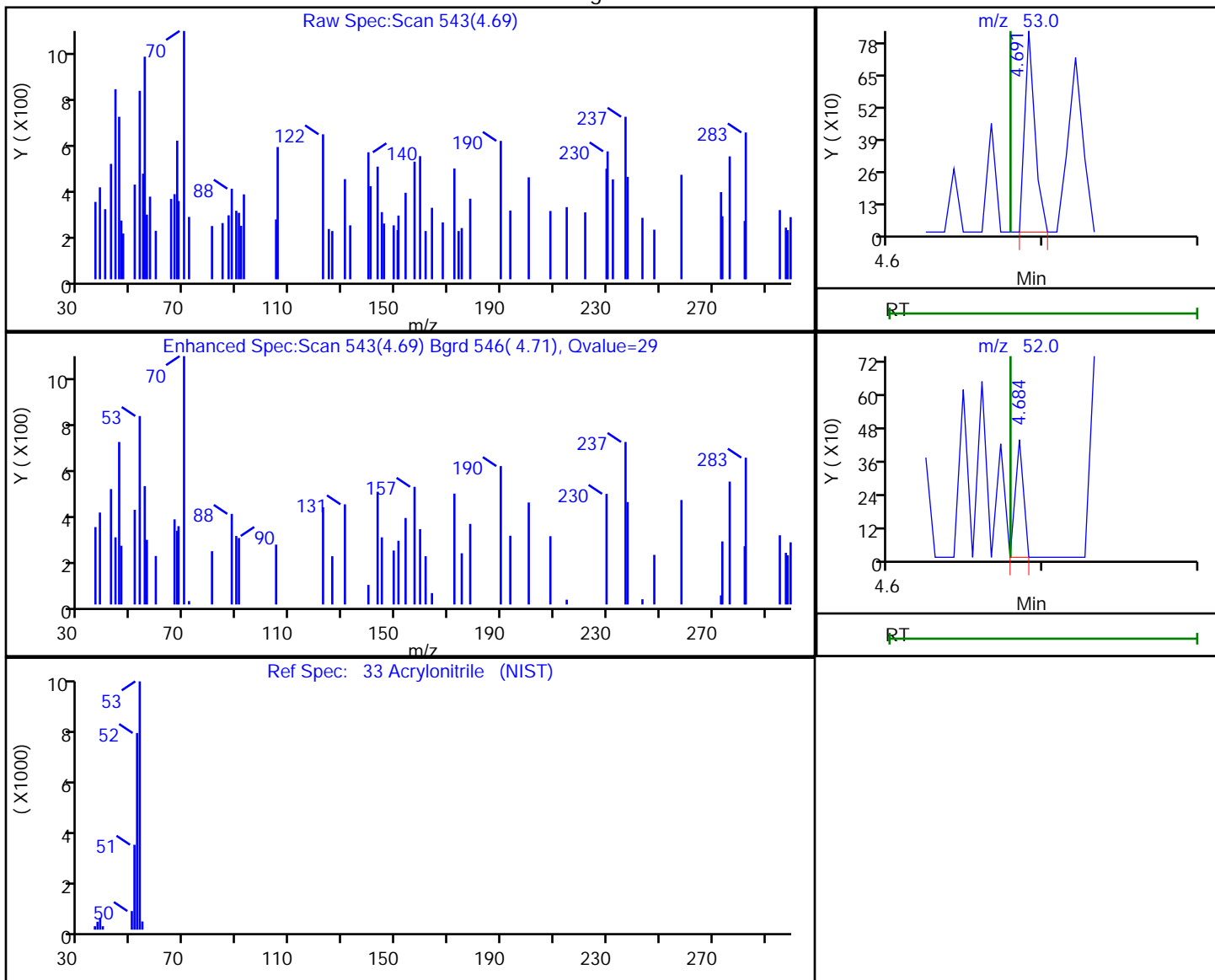
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101923.D
 Injection Date: 19-Oct-2019 23:06:30 Instrument ID: CHHP6
 Lims ID: 180-97133-B-7 Lab Sample ID: 180-97133-7
 Client ID: HD-MW-88-0/1-0
 Operator ID: 433269 ALS Bottle#: 17 Worklist Smp#: 23
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

33 Acrylonitrile, CAS: 107-13-1

Processing Results



RT	Mass	Response	Amount
4.69	53.00	380	0.477921
4.68	52.00	156	

Reviewer: bowieh, 22-Oct-2019 10:08:29

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1
 SDG No.: _____
 Client Sample ID: HD-QC8-0/1-2 Lab Sample ID: 180-97133-8
 Matrix: Water Lab File ID: 6101913.D
 Analysis Method: EPA 8260C Date Collected: 10/09/2019 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 10/19/2019 18:46
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 295448 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	ND		1.0	0.90
75-01-4	Vinyl chloride	ND		1.0	0.88
74-83-9	Bromomethane	ND		1.0	0.89
75-00-3	Chloroethane	ND		1.0	0.90
75-35-4	1,1-Dichloroethene	ND		1.0	0.55
67-64-1	Acetone	ND		5.0	3.4
75-15-0	Carbon disulfide	ND		1.0	0.88
75-09-2	Methylene Chloride	ND		1.0	0.89
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.67
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.59
75-34-3	1,1-Dichloroethane	ND		1.0	0.63
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.71
74-97-5	Bromochloromethane	ND		1.0	0.63
78-93-3	2-Butanone (MEK)	ND		5.0	2.6
67-66-3	Chloroform	ND		1.0	0.60
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.60
56-23-5	Carbon tetrachloride	ND		1.0	0.88
71-43-2	Benzene	ND		1.0	0.60
107-06-2	1,2-Dichloroethane	ND		1.0	0.57
79-01-6	Trichloroethene	ND		1.0	0.69
78-87-5	1,2-Dichloropropane	ND		1.0	0.66
75-27-4	Bromodichloromethane	ND		1.0	0.64
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.59
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	3.1
108-88-3	Toluene	ND		1.0	0.46
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.58
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.45
127-18-4	Tetrachloroethene	ND		1.0	0.47
591-78-6	2-Hexanone	ND		5.0	3.3
124-48-1	Dibromochloromethane	ND		1.0	0.84
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.50
108-90-7	Chlorobenzene	ND		1.0	0.50
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.57
100-41-4	Ethylbenzene	ND		1.0	0.51
1330-20-7	Xylenes, Total	ND		2.0	0.89
100-42-5	Styrene	ND		1.0	0.47

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1
 SDG No.: _____
 Client Sample ID: HD-QC8-0/1-2 Lab Sample ID: 180-97133-8
 Matrix: Water Lab File ID: 6101913.D
 Analysis Method: EPA 8260C Date Collected: 10/09/2019 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 10/19/2019 18:46
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 295448 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	ND		1.0	0.98
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.60
107-13-1	Acrylonitrile	ND		20	7.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	114		70-150
2037-26-5	Toluene-d8 (Surr)	107		78-128
460-00-4	4-Bromofluorobenzene (Surr)	102		64-123
1868-53-7	Dibromofluoromethane (Surr)	107		75-147

Eurofins TestAmerica, Pittsburgh
Target Compound Quantitation Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101913.D
 Lims ID: 180-97133-A-8
 Client ID: HD-QC8-0/1-2
 Sample Type: Client
 Inject. Date: 19-Oct-2019 18:46:30 ALS Bottle#: 7 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-0029191-013
 Misc. Info.: 180-97133-a-8
 Operator ID: 433269 Instrument ID: CHHP6
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C_D ICAL
 Last Update: 22-Oct-2019 09:51:06 Calib Date: 18-Oct-2019 18:47:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101817.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX0302

First Level Reviewer: bowieh Date: 22-Oct-2019 09:51:06

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.432	4.429	0.003	92	139880	1000.0	
* 2 Fluorobenzene (IS)	96	7.407	7.410	-0.003	98	458140	50.0	
* 3 Chlorobenzene-d5	119	10.503	10.513	-0.010	89	112945	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.857	12.855	0.002	98	159870	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.689	6.686	0.003	93	115511	53.7	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	7.054	7.057	-0.003	94	187036	56.9	
\$ 7 Toluene-d8 (Surr)	98	9.055	9.053	0.002	94	439707	53.5	
\$ 8 4-Bromofluorobenzene (Surr	95	11.695	11.693	0.002	0	172887	51.0	
12 Chloromethane	50		1.886				ND	U
13 Vinyl chloride	62		2.008				ND	U
15 Bromomethane	94		2.355				ND	U
16 Chloroethane	64		2.495				ND	U
22 1,1-Dichloroethene	96		3.468				ND	
24 Acetone	43		3.584				ND	MUa
26 Carbon disulfide	76		3.766				ND	U
31 Methylene Chloride	84		4.289				ND	U
33 Acrylonitrile	53		4.679				ND	U
34 trans-1,2-Dichloroethene	96		4.709				ND	U
35 Methyl tert-butyl ether	73		4.715				ND	U
37 1,1-Dichloroethane	63		5.336				ND	U
43 cis-1,2-Dichloroethene	96		6.078				ND	U
44 2-Butanone (MEK)	43		6.090				ND	U
48 Chlorobromomethane	128		6.358				ND	
50 Chloroform	83		6.510				ND	U
51 1,1,1-Trichloroethane	97		6.662				ND	U
53 Carbon tetrachloride	117		6.826				ND	U
56 Benzene	78		7.063				ND	U
57 1,2-Dichloroethane	62		7.142				ND	U
61 Trichloroethene	130		7.793				ND	
64 1,2-Dichloropropane	63		8.061				ND	U
68 Dichlorobromomethane	83		8.347				ND	U

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
71 cis-1,3-Dichloropropene	75		8.797				ND	U
72 4-Methyl-2-pentanone (MIBK)	43		8.955				ND	U
73 Toluene	91		9.126				ND	U
74 trans-1,3-Dichloropropene	75		9.369				ND	U
76 1,1,2-Trichloroethane	97		9.570				ND	U
77 Tetrachloroethene	164		9.631				ND	
79 2-Hexanone	43		9.789				ND	U
81 Chlorodibromomethane	129		9.935				ND	U
82 Ethylene Dibromide	107		10.044				ND	U
84 Chlorobenzene	112		10.537				ND	U
87 Ethylbenzene	106		10.634				ND	U
86 1,1,1,2-Tetrachloroethane	131		10.634				ND	U
88 m-Xylene & p-Xylene	106		10.762				ND	U
89 o-Xylene	106		11.145				ND	U
90 Styrene	104		11.170				ND	U
91 Bromoform	173		11.352				ND	U
96 1,1,2,2-Tetrachloroethane	83		11.833				ND	U
S 131 Xylenes, Total	106		1.000				ND	

QC Flag Legend

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

voaWI/SHP5_00014

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101913.D

Injection Date: 19-Oct-2019 18:46:30

Instrument ID: CHHP6

Operator ID: 433269

Lims ID: 180-97133-A-8

Lab Sample ID: 180-97133-8

Worklist Smp#: 13

Client ID: HD-QC8-0/1-2

Purge Vol: 5.000 mL

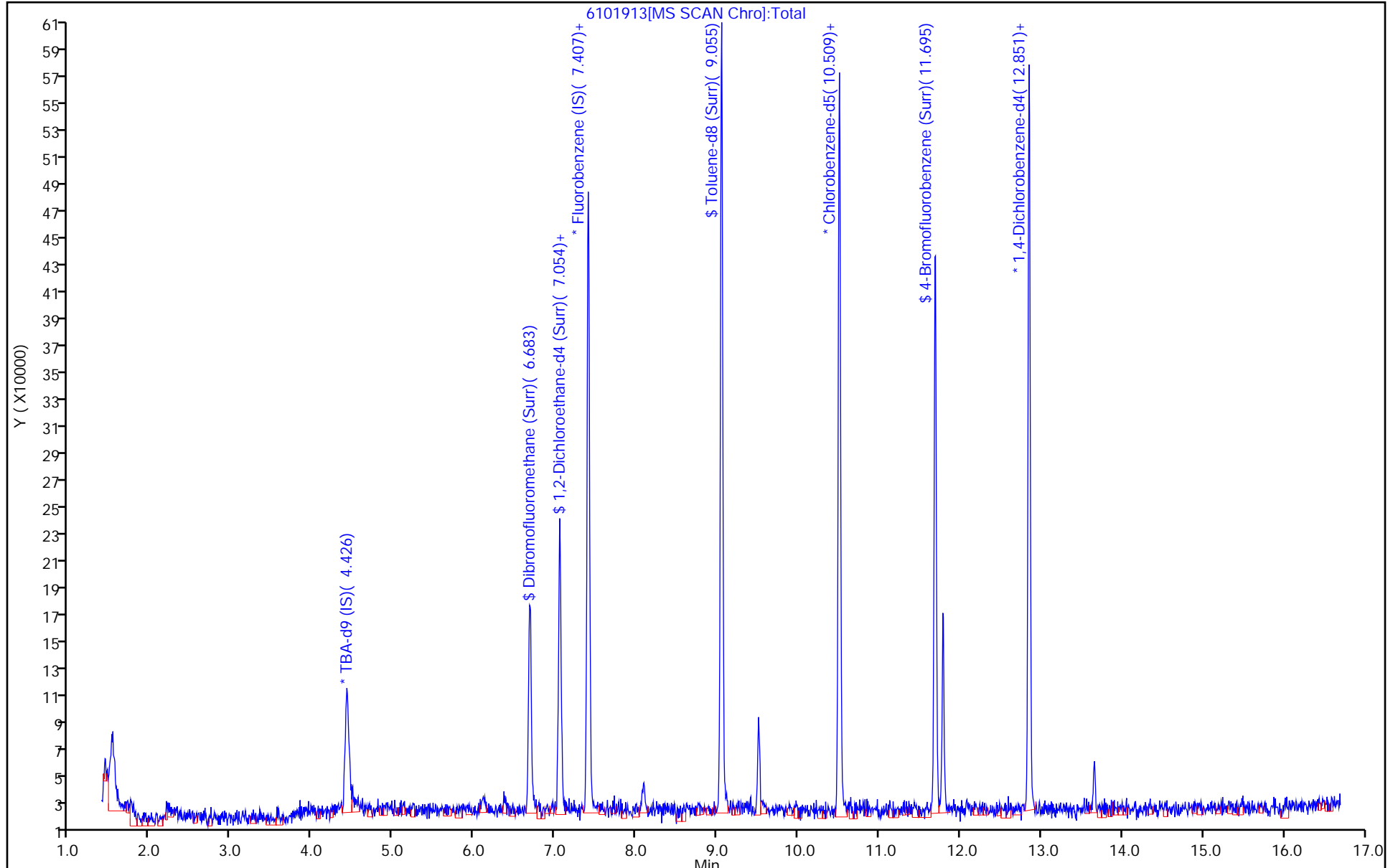
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C_D ICAL

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Pittsburgh
Recovery Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101913.D
 Lims ID: 180-97133-A-8
 Client ID: HD-QC8-0/1-2
 Sample Type: Client
 Inject. Date: 19-Oct-2019 18:46:30 ALS Bottle#: 7 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-0029191-013
 Misc. Info.: 180-97133-a-8
 Operator ID: 433269 Instrument ID: CHHP6
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C_D ICAL
 Last Update: 22-Oct-2019 09:51:06 Calib Date: 18-Oct-2019 18:47:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101817.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX0302

First Level Reviewer: bowieh Date: 22-Oct-2019 09:51:06

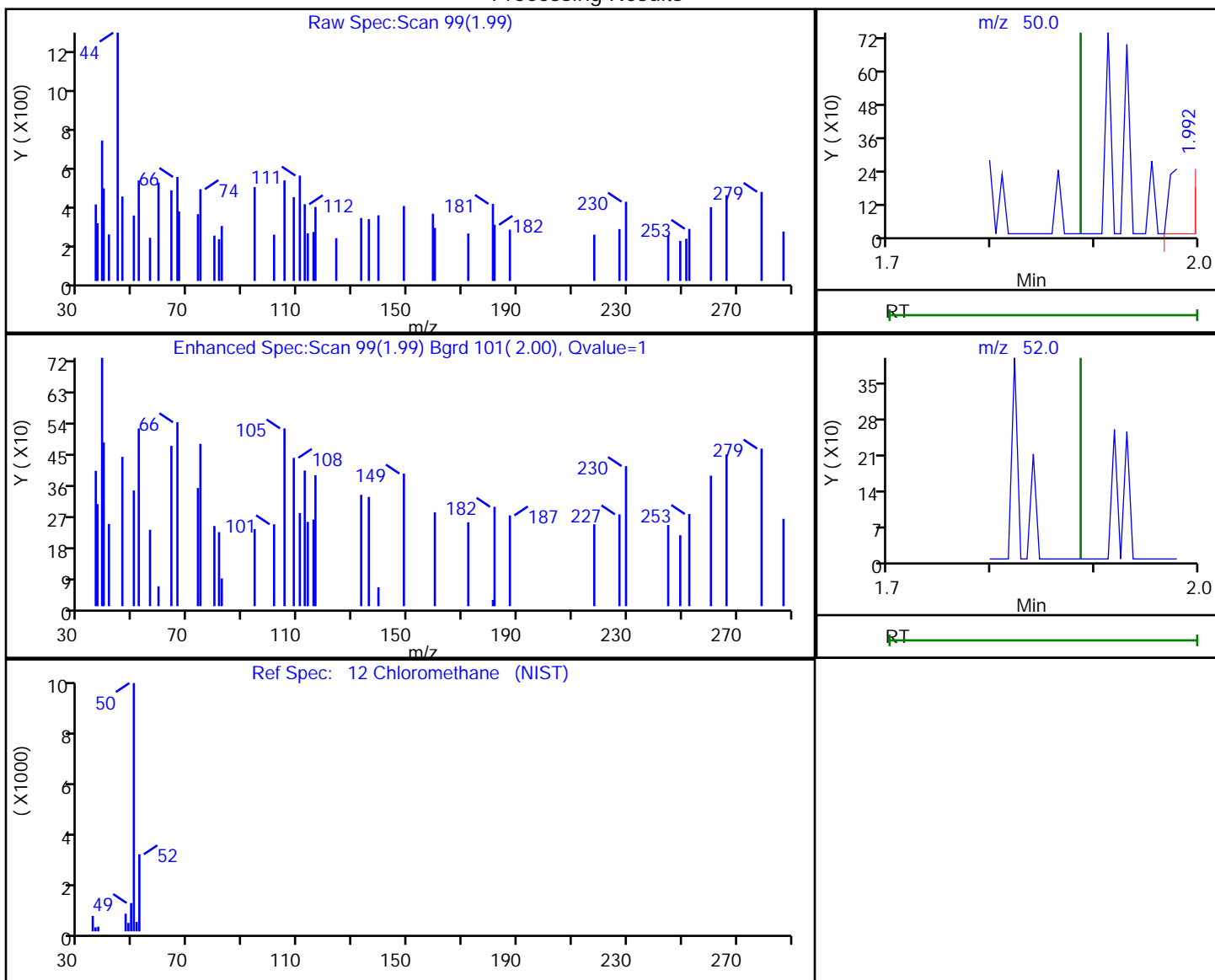
Compound	Amount Added	Amount Recovered	% Rec.
\$ 5 Dibromofluoromethane (Surr)	50.0	53.7	107.33
\$ 6 1,2-Dichloroethane-d4 (Surr)	50.0	56.9	113.71
\$ 7 Toluene-d8 (Surr)	50.0	53.5	107.05
\$ 8 4-Bromofluorobenzene (Surr)	50.0	51.0	101.94

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101913.D
 Injection Date: 19-Oct-2019 18:46:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-8 Lab Sample ID: 180-97133-8
 Client ID: HD-QC8-0/1-2
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

12 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
1.99	50.00	409	0.105626
1.99	52.00	344	

Reviewer: bowieh, 22-Oct-2019 09:49:38

Audit Action: Marked Compound Undetected

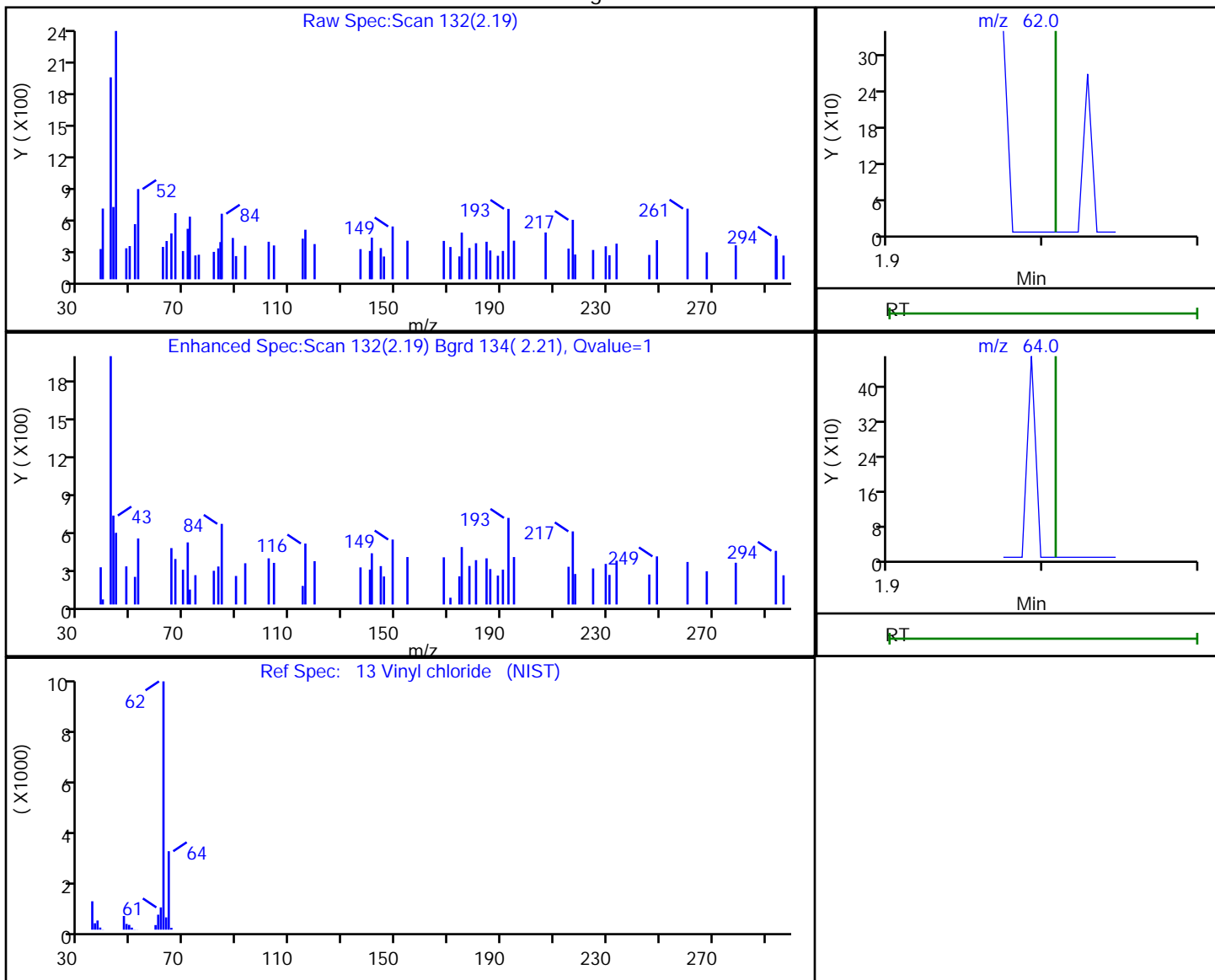
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Injection Date: 19-Oct-2019 18:46:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-8 Lab Sample ID: 180-97133-8
 Client ID: HD-QC8-0/1-2
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

13 Vinyl chloride, CAS: 75-01-4

Processing Results



RT	Mass	Response	Amount
2.19	62.00	112	0.034077
2.19	64.00	133	

Reviewer: bowieh, 22-Oct-2019 09:49:39

Audit Action: Marked Compound Undetected

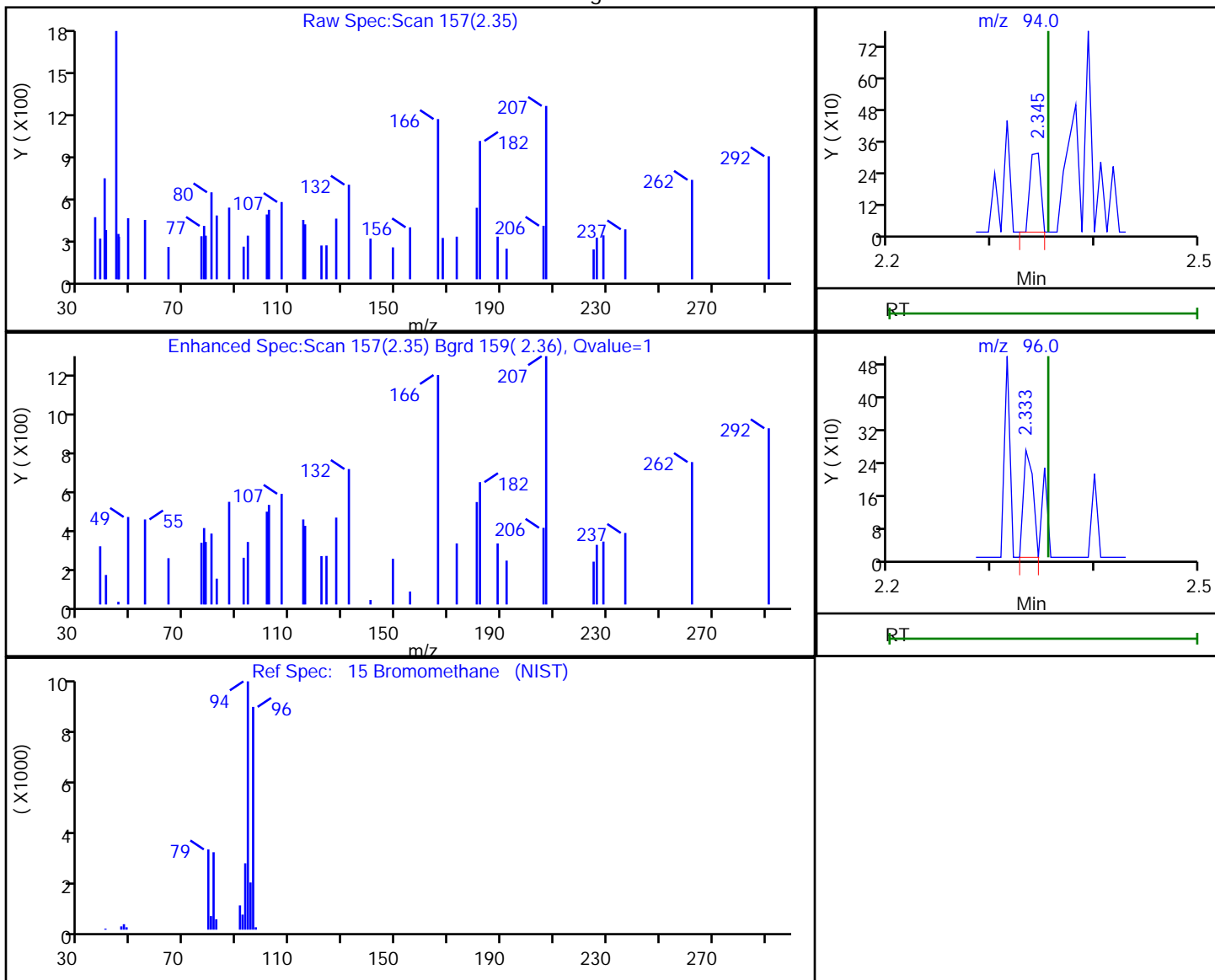
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Eurofins TestAmerica, Pittsburgh

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 Injection Date: 19-Oct-2019 18:46:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-8 Lab Sample ID: 180-97133-8
 Client ID: HD-QC8-0/1-2
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

15 Bromomethane, CAS: 74-83-9

Processing Results



RT	Mass	Response	Amount
2.35	94.00	221	0.159341
2.33	96.00	171	

Reviewer: bowieh, 22-Oct-2019 09:49:39

Audit Action: Marked Compound Undetected

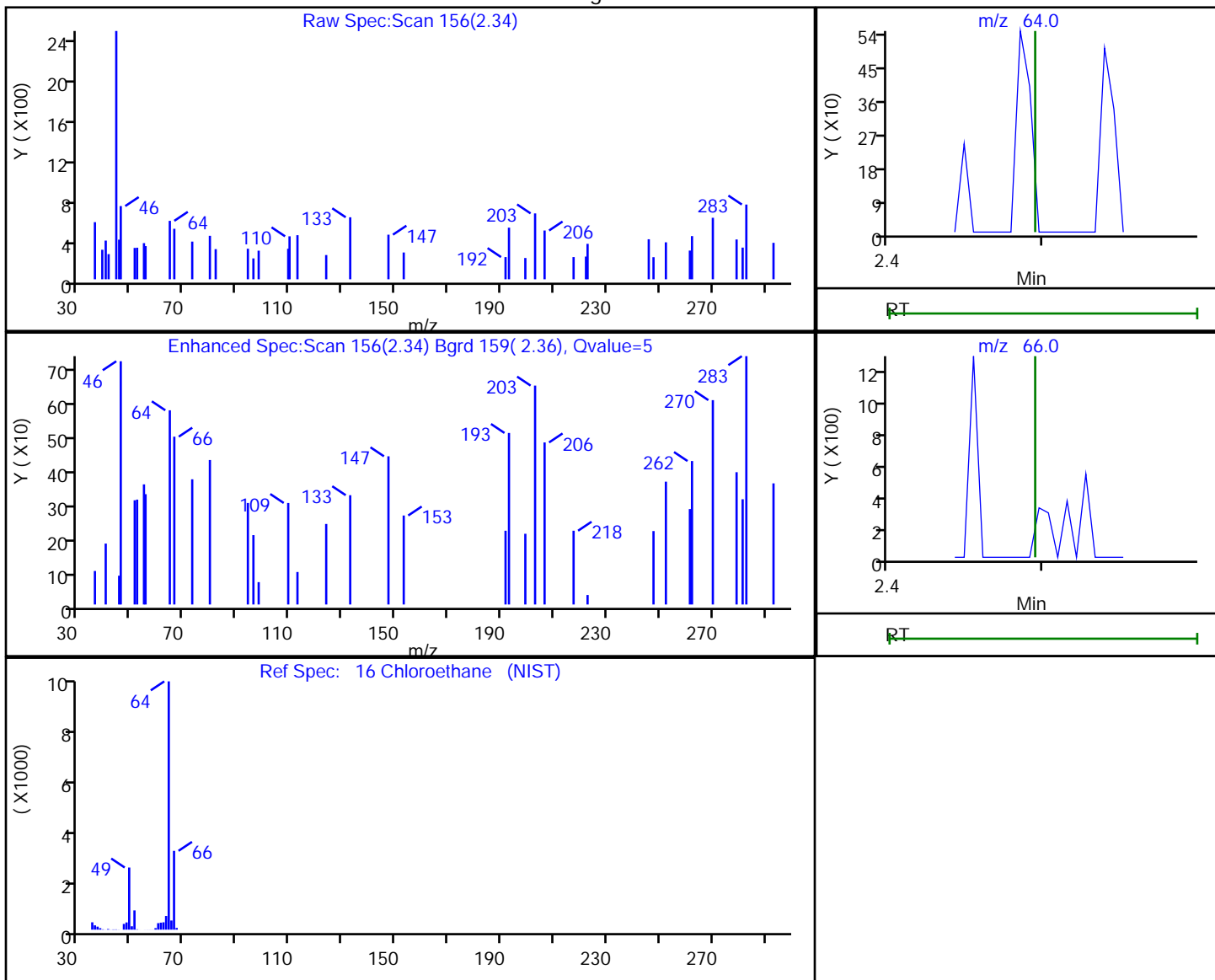
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Injection Date: 19-Oct-2019 18:46:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-8 Lab Sample ID: 180-97133-8
 Client ID: HD-QC8-0/1-2
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

16 Chloroethane, CAS: 75-00-3

Processing Results



RT	Mass	Response	Amount
2.34	64.00	393	-2.540878
2.34	66.00	181	

Reviewer: bowieh, 22-Oct-2019 09:49:40

Audit Action: Marked Compound Undetected

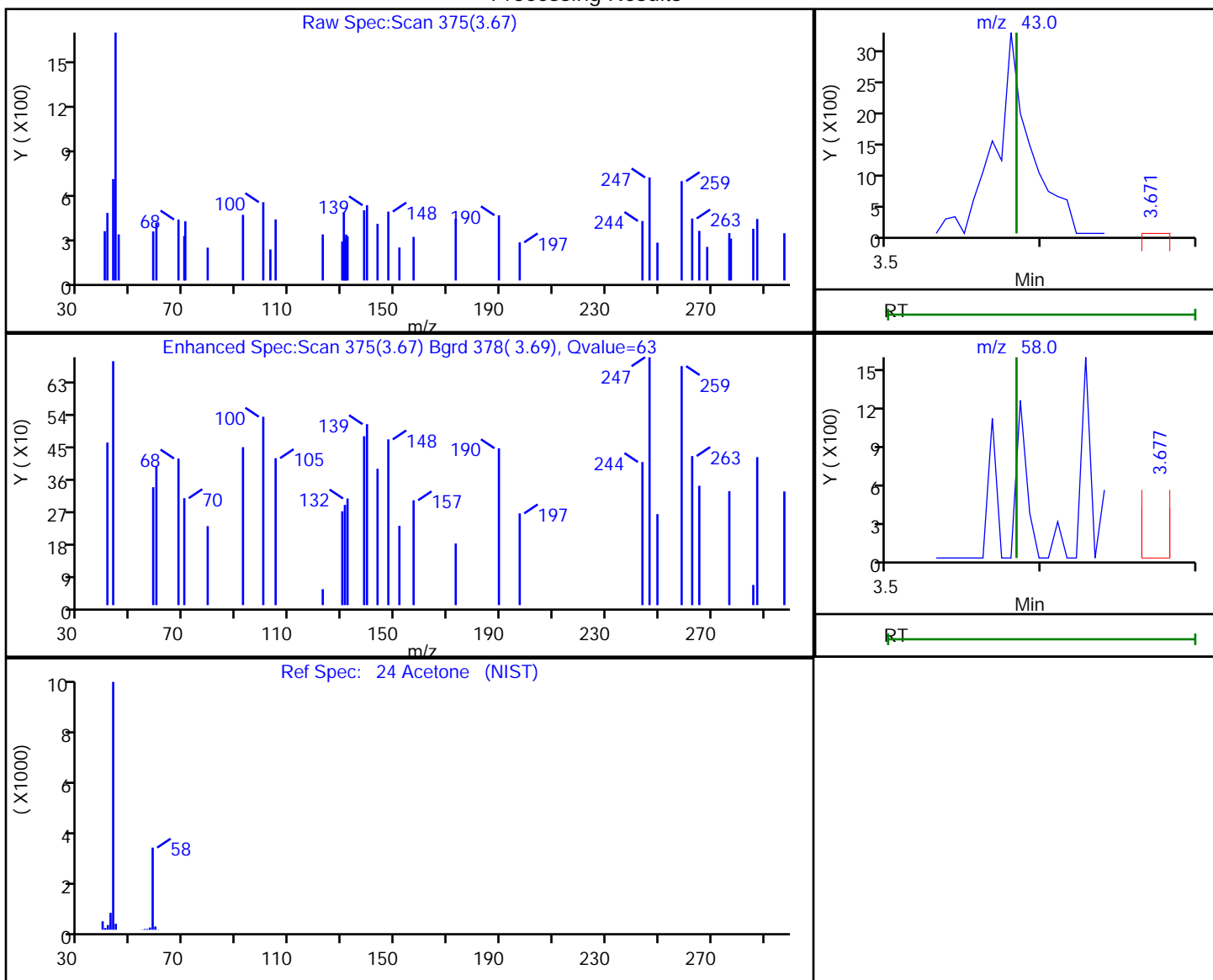
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Injection Date: 19-Oct-2019 18:46:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-8 Lab Sample ID: 180-97133-8
 Client ID: HD-QC8-0/1-2
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

24 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
3.67	43.00	365	0.282309
3.68	58.00	251	

Reviewer: bowieh, 22-Oct-2019 09:50:03

Audit Action: Marked Compound Undetected

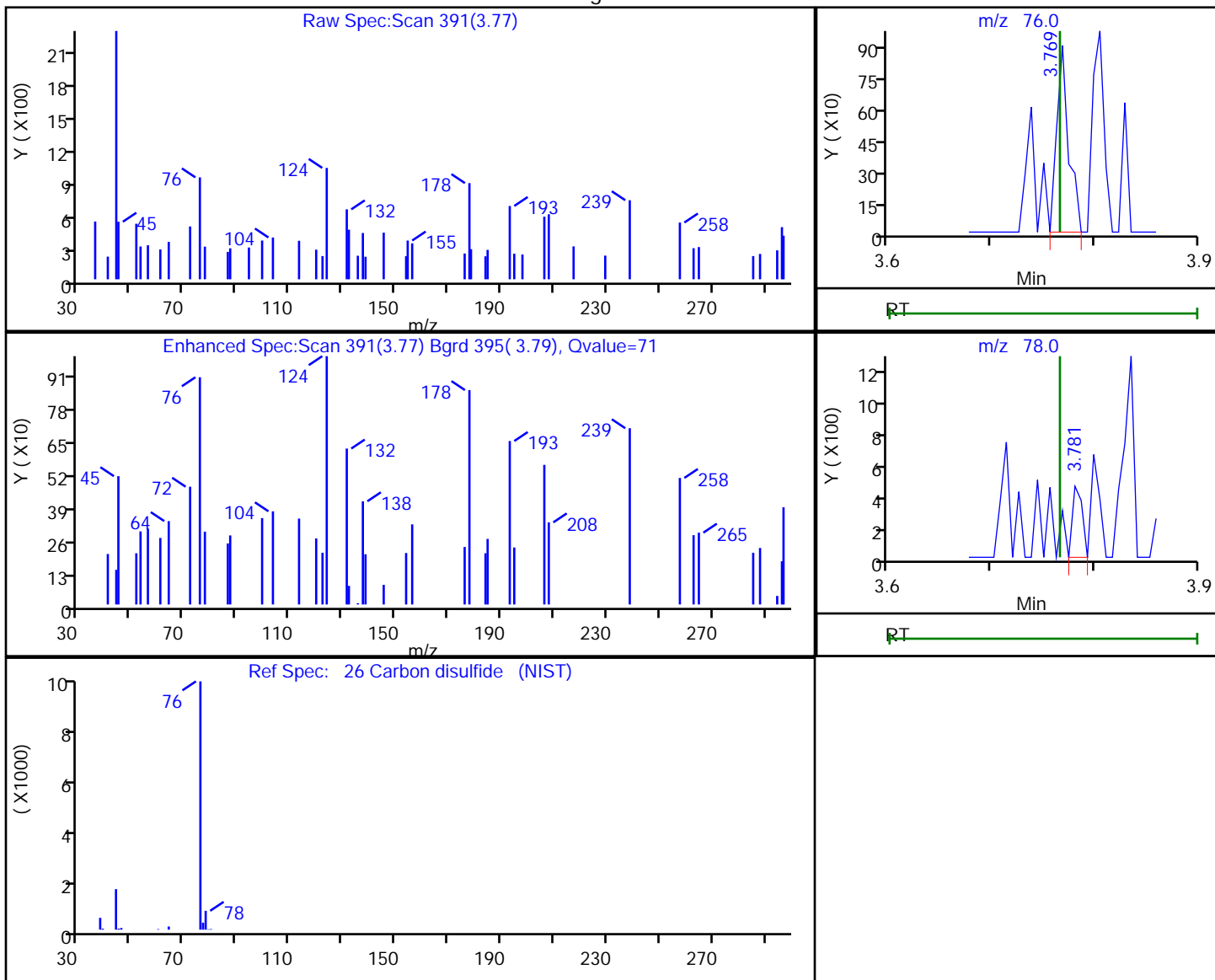
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Lims ID: 180-97133-A-8 Lab Sample ID: 180-97133-8
 Client ID: HD-QC8-0/1-2
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

26 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
3.77	76.00	730	0.122657
3.78	78.00	291	

Reviewer: bowieh, 22-Oct-2019 09:50:04

Audit Action: Marked Compound Undetected

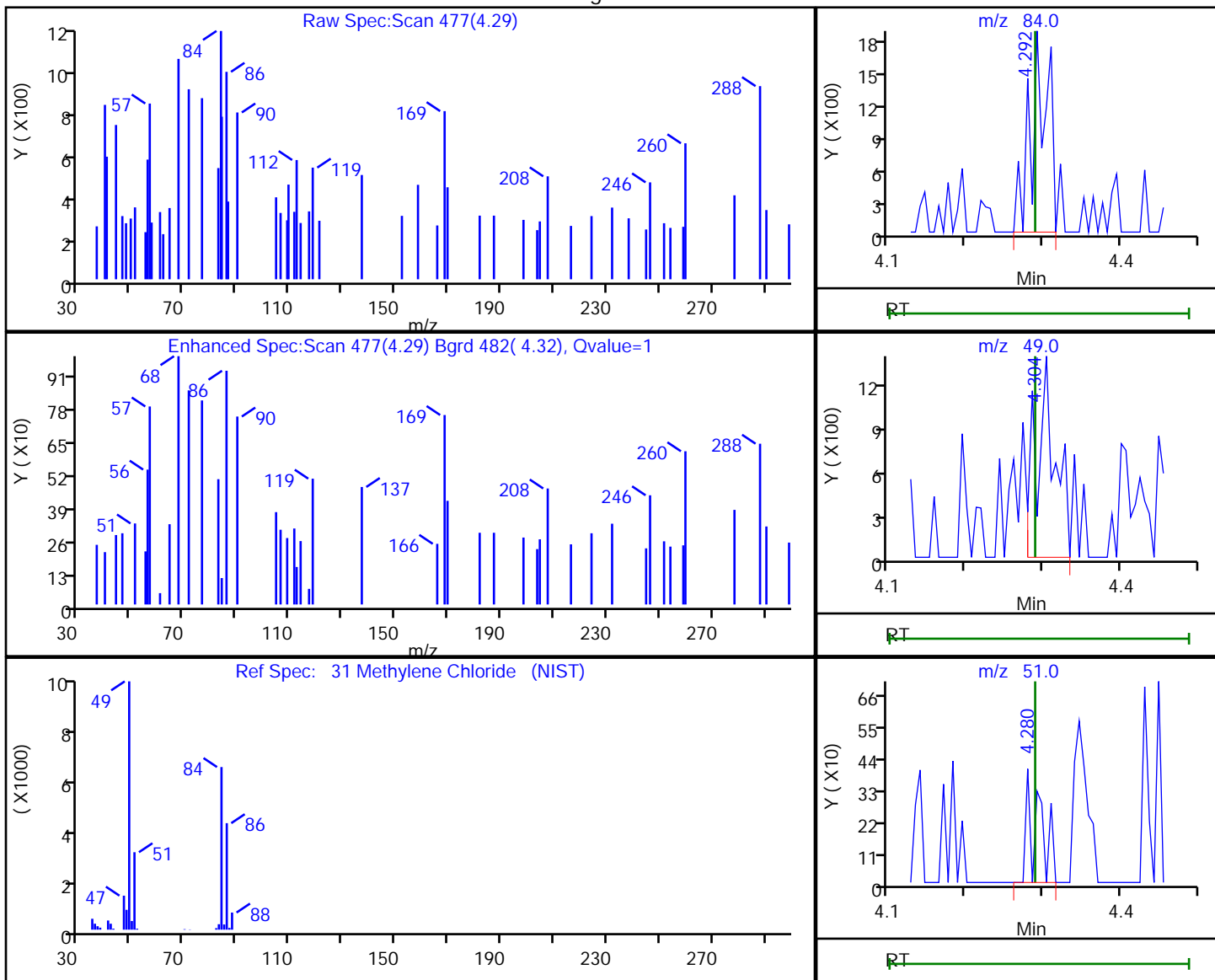
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Lims ID: 180-97133-A-8 Lab Sample ID: 180-97133-8
 Client ID: HD-QC8-0/1-2
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

31 Methylene Chloride, CAS: 75-09-2

Processing Results



RT	Mass	Response	Amount
4.29	84.00	2832	-1.848105
4.30	49.00	2277	
4.28	51.00	468	

Reviewer: bowieh, 22-Oct-2019 09:50:14

Audit Action: Marked Compound Undetected

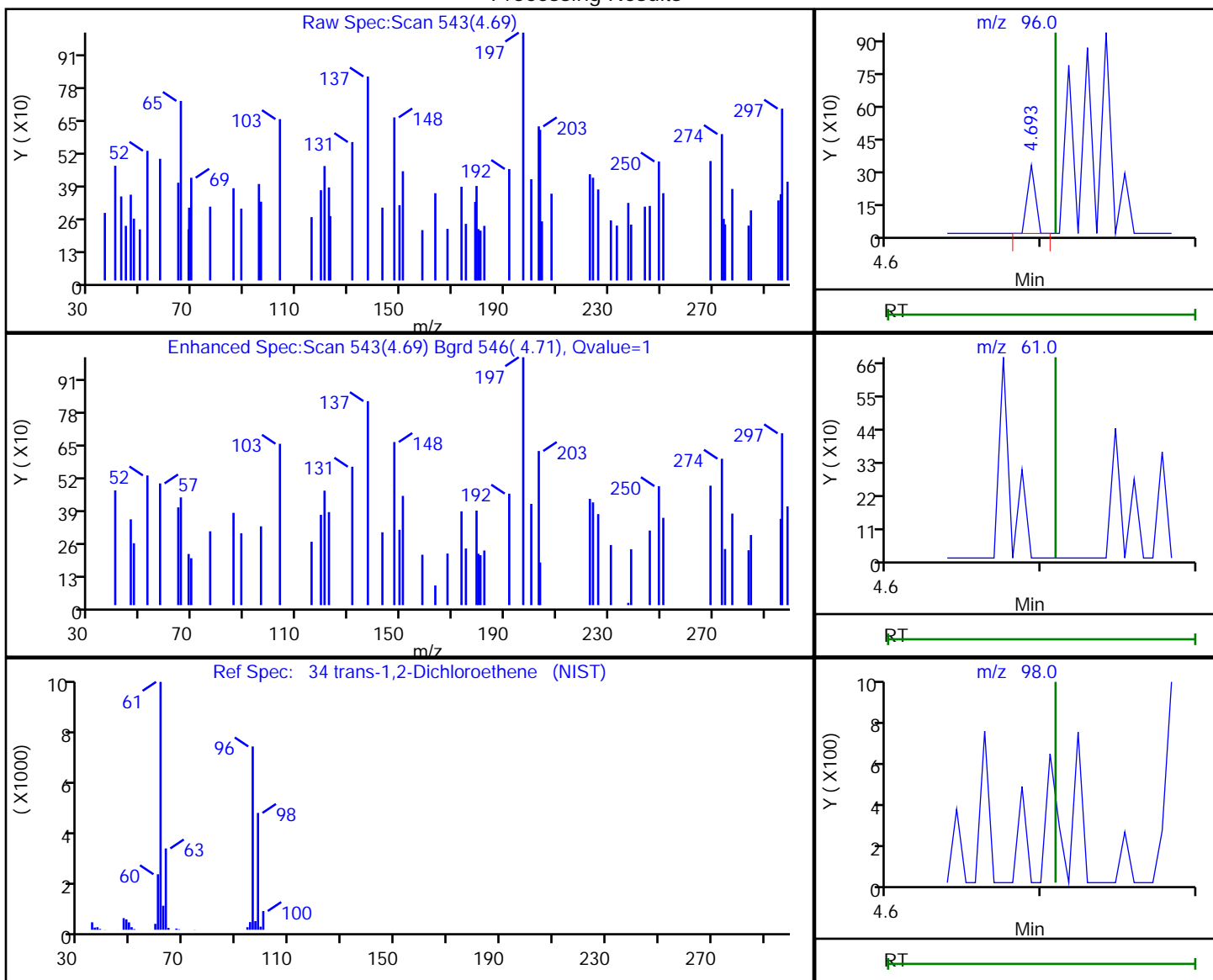
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Injection Date: 19-Oct-2019 18:46:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-8 Lab Sample ID: 180-97133-8
 Client ID: HD-QC8-0/1-2
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

34 trans-1,2-Dichloroethene, CAS: 156-60-5

Processing Results



RT	Mass	Response	Amount
4.69	96.00	115	0.043544
4.71	61.00	0	
4.71	98.00	0	

Reviewer: bowieh, 22-Oct-2019 09:50:16

Audit Action: Marked Compound Undetected

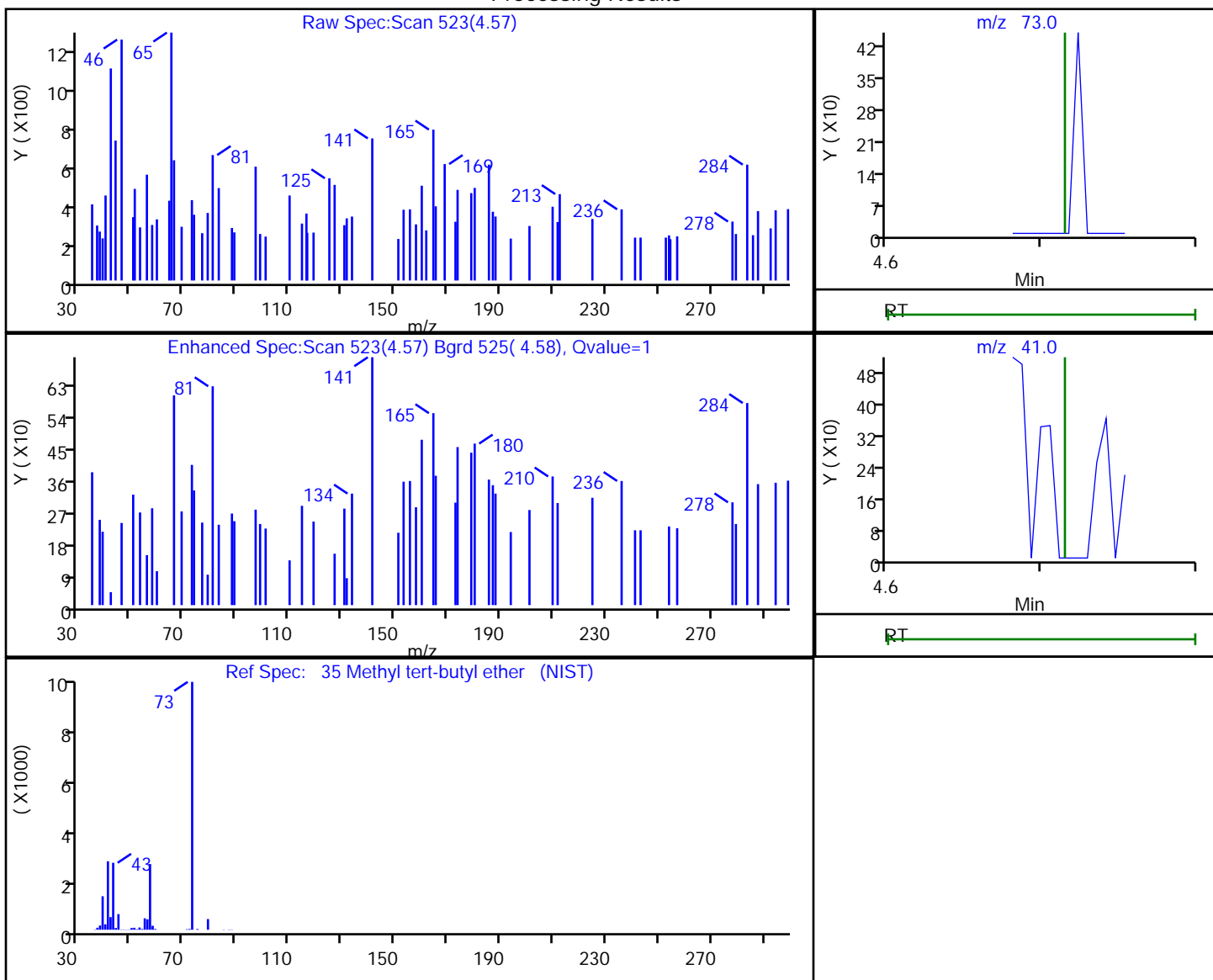
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Injection Date: 19-Oct-2019 18:46:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-8 Lab Sample ID: 180-97133-8
 Client ID: HD-QC8-0/1-2
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

35 Methyl tert-butyl ether, CAS: 1634-04-4

Processing Results



RT	Mass	Response	Amount
4.57	73.00	146	0.025573
4.58	41.00	191	

Reviewer: bowieh, 22-Oct-2019 09:50:17

Audit Action: Marked Compound Undetected

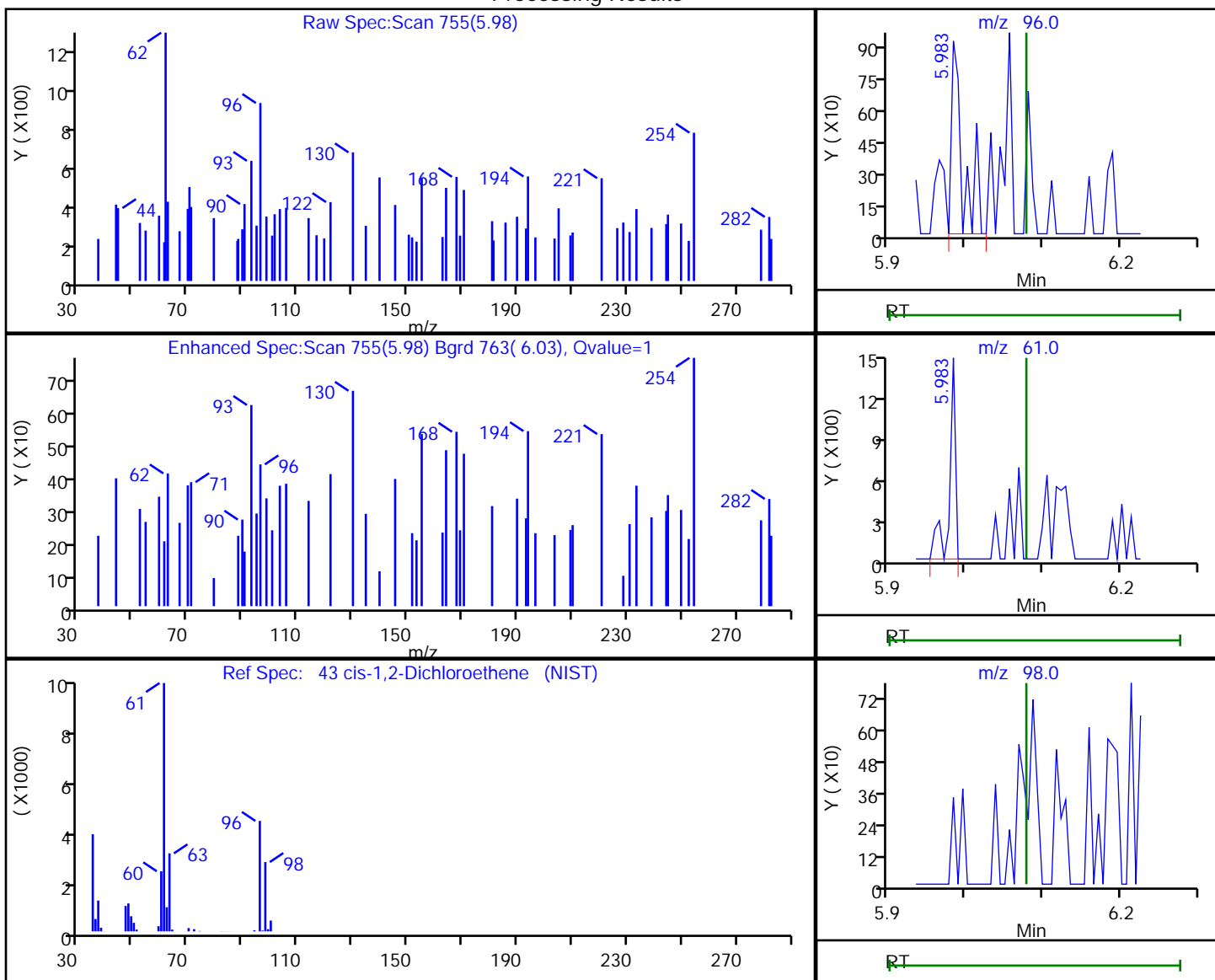
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101913.D
 Injection Date: 19-Oct-2019 18:46:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-8 Lab Sample ID: 180-97133-8
 Client ID: HD-QC8-0/1-2
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

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

Processing Results



RT	Mass	Response	Amount
5.98	96.00	919	0.334603
5.98	61.00	810	
6.08	98.00	0	

Reviewer: bowieh, 22-Oct-2019 09:50:22

Audit Action: Marked Compound Undetected

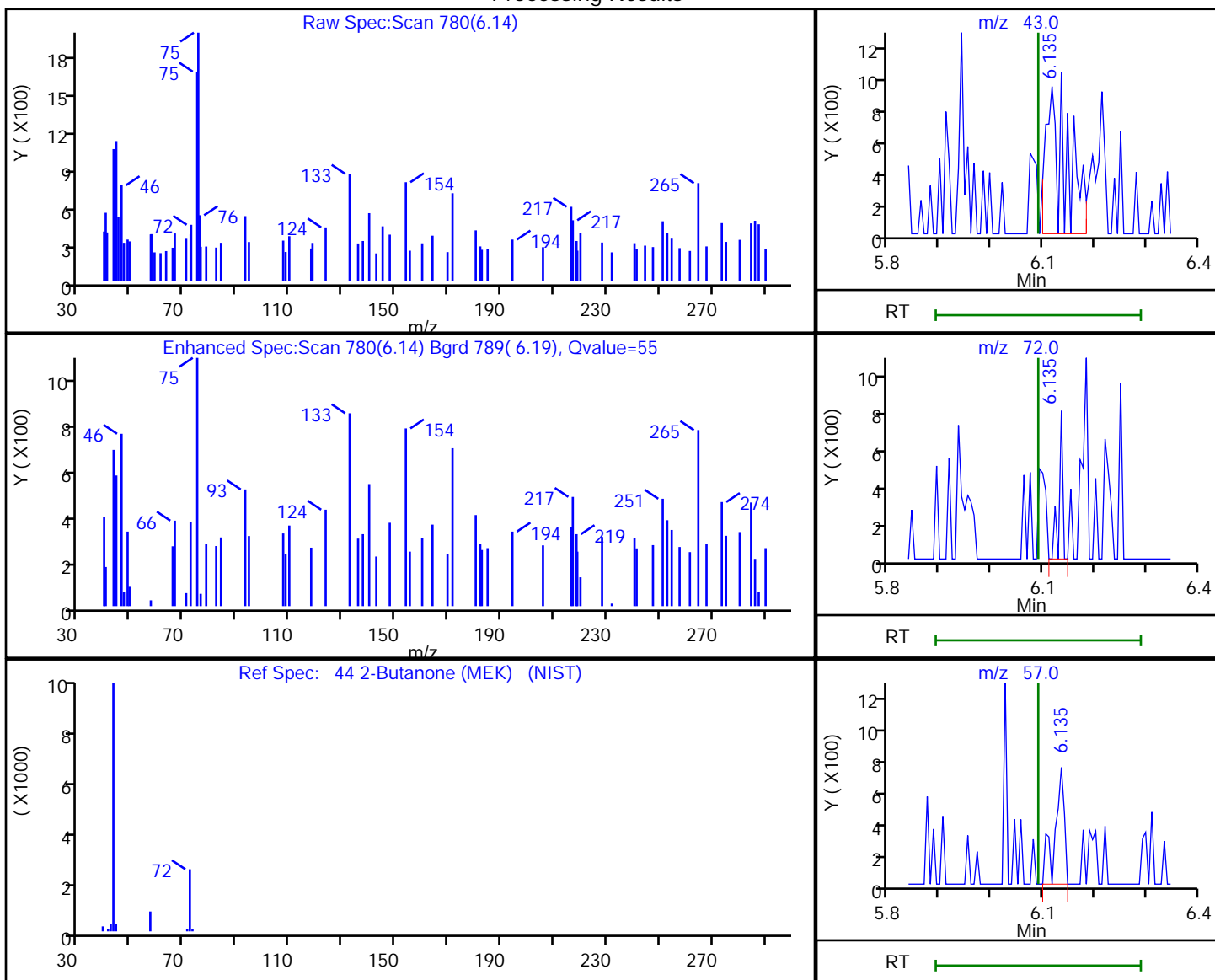
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Lims ID: 180-97133-A-8 Lab Sample ID: 180-97133-8
 Client ID: HD-QC8-0/1-2
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

44 2-Butanone (MEK), CAS: 78-93-3

Processing Results



RT	Mass	Response	Amount
6.14	43.00	2584	1.994780
6.14	72.00	395	
6.14	57.00	936	

Reviewer: bowieh, 22-Oct-2019 09:50:23

Audit Action: Marked Compound Undetected

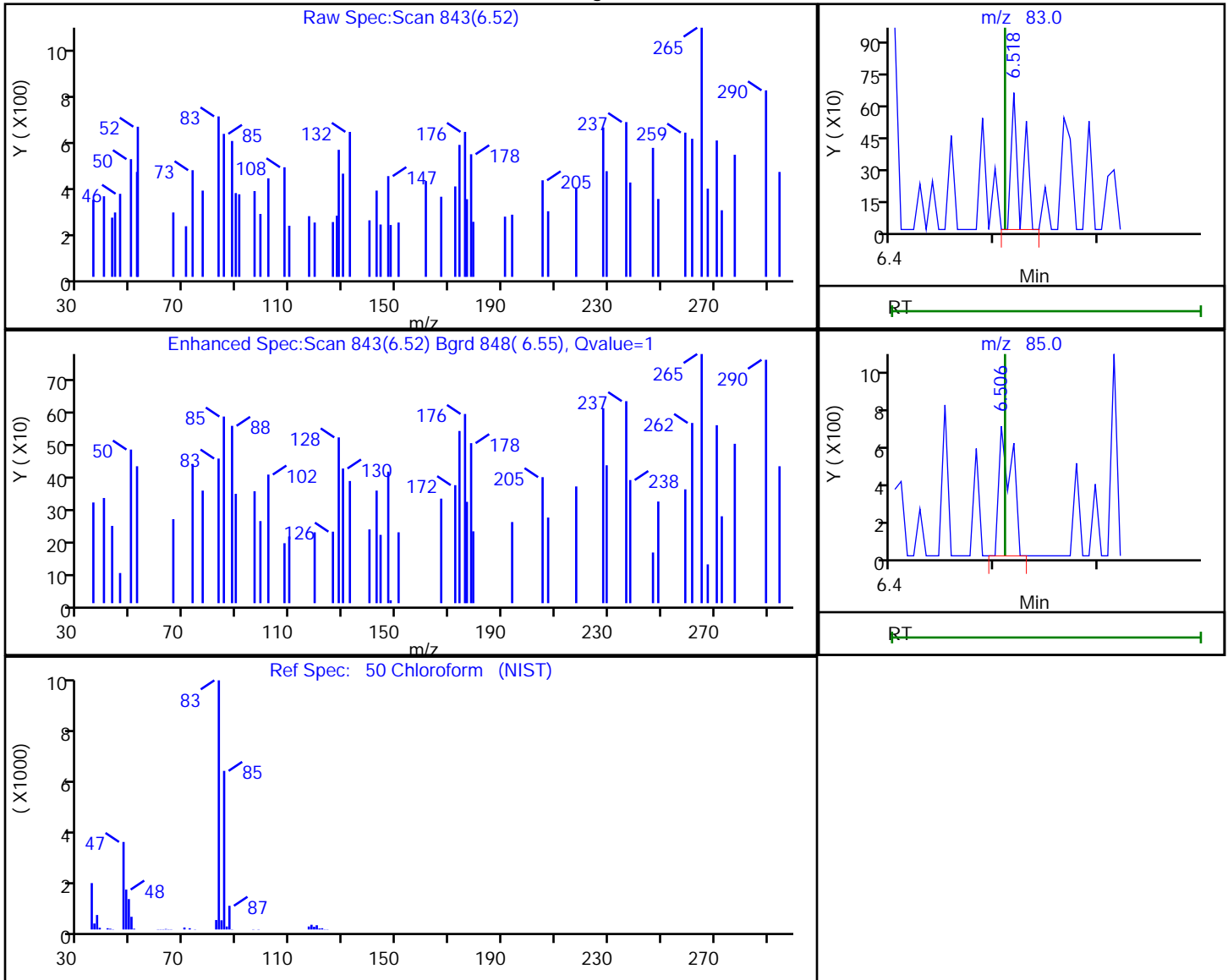
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Injection Date: 19-Oct-2019 18:46:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-8 Lab Sample ID: 180-97133-8
 Client ID: HD-QC8-0/1-2
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

50 Chloroform, CAS: 67-66-3

Processing Results



RT	Mass	Response	Amount
6.52	83.00	427	0.089646
6.51	85.00	580	

Reviewer: bowieh, 22-Oct-2019 09:50:25

Audit Action: Marked Compound Undetected

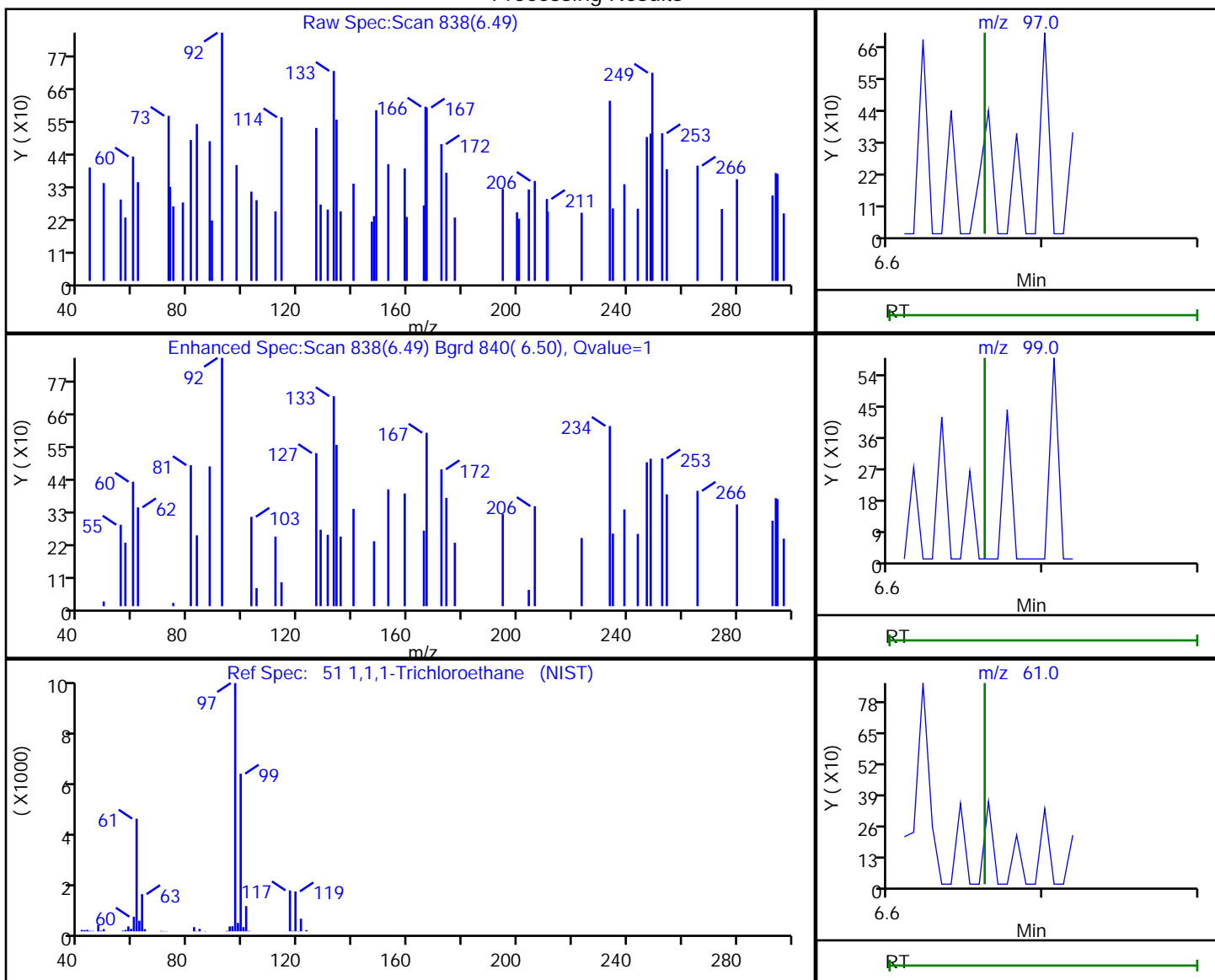
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Injection Date: 19-Oct-2019 18:46:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-8 Lab Sample ID: 180-97133-8
 Client ID: HD-QC8-0/1-2
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

51 1,1,1-Trichloroethane, CAS: 71-55-6

Processing Results



RT	Mass	Response	Amount
6.49	97.00	241	0.059684
6.48	99.00	166	
6.49	61.00	122	

Reviewer: bowieh, 22-Oct-2019 09:50:26

Audit Action: Marked Compound Undetected

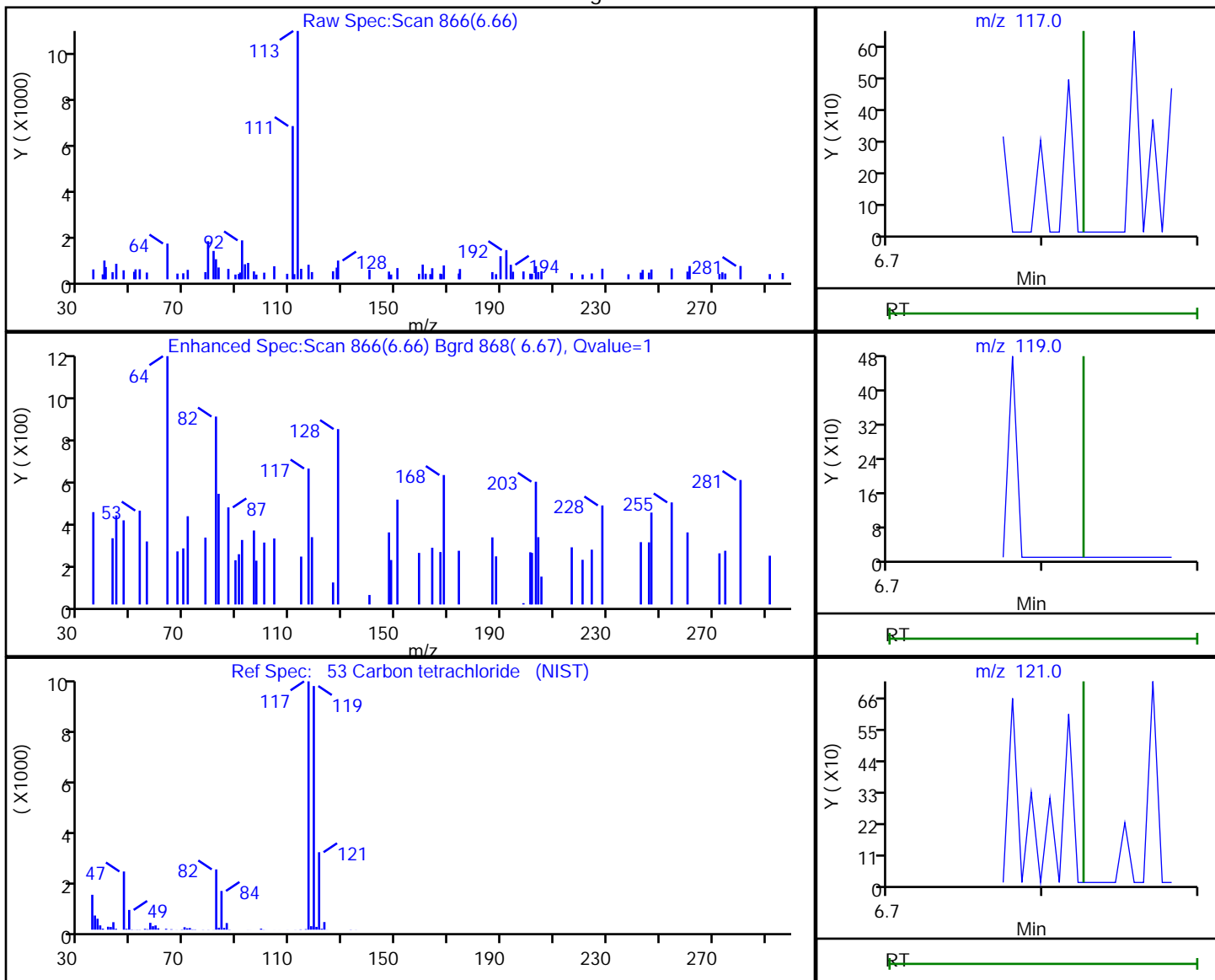
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Injection Date: 19-Oct-2019 18:46:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-8 Lab Sample ID: 180-97133-8
 Client ID: HD-QC8-0/1-2
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

53 Carbon tetrachloride, CAS: 56-23-5

Processing Results



RT	Mass	Response	Amount
6.66	117.00	457	0.133698
6.66	119.00	82	
6.65	121.00	364	

Reviewer: bowieh, 22-Oct-2019 09:50:27

Audit Action: Marked Compound Undetected

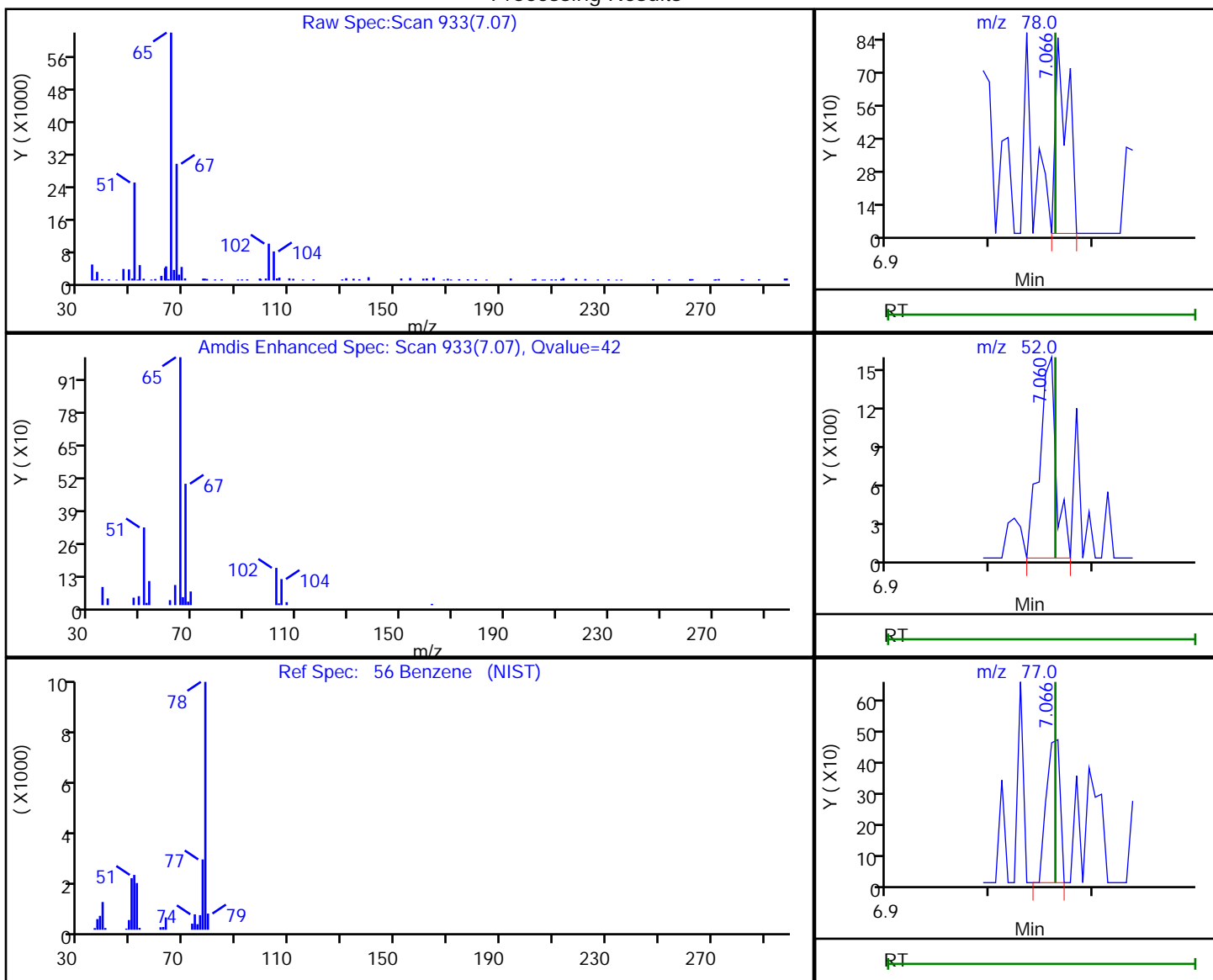
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Eurofins TestAmerica, Pittsburgh

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Injection Date: 19-Oct-2019 18:46:30 Instrument ID: CHHP6
Lims ID: 180-97133-A-8 Lab Sample ID: 180-97133-8
Client ID: HD-QC8-0/1-2
Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

56 Benzene, CAS: 71-43-2

Processing Results



RT	Mass	Response	Amount
7.07	78.00	709	0.074433
7.06	52.00	1721	
7.07	77.00	432	

Reviewer: bowieh, 22-Oct-2019 09:50:28

Audit Action: Marked Compound Undetected

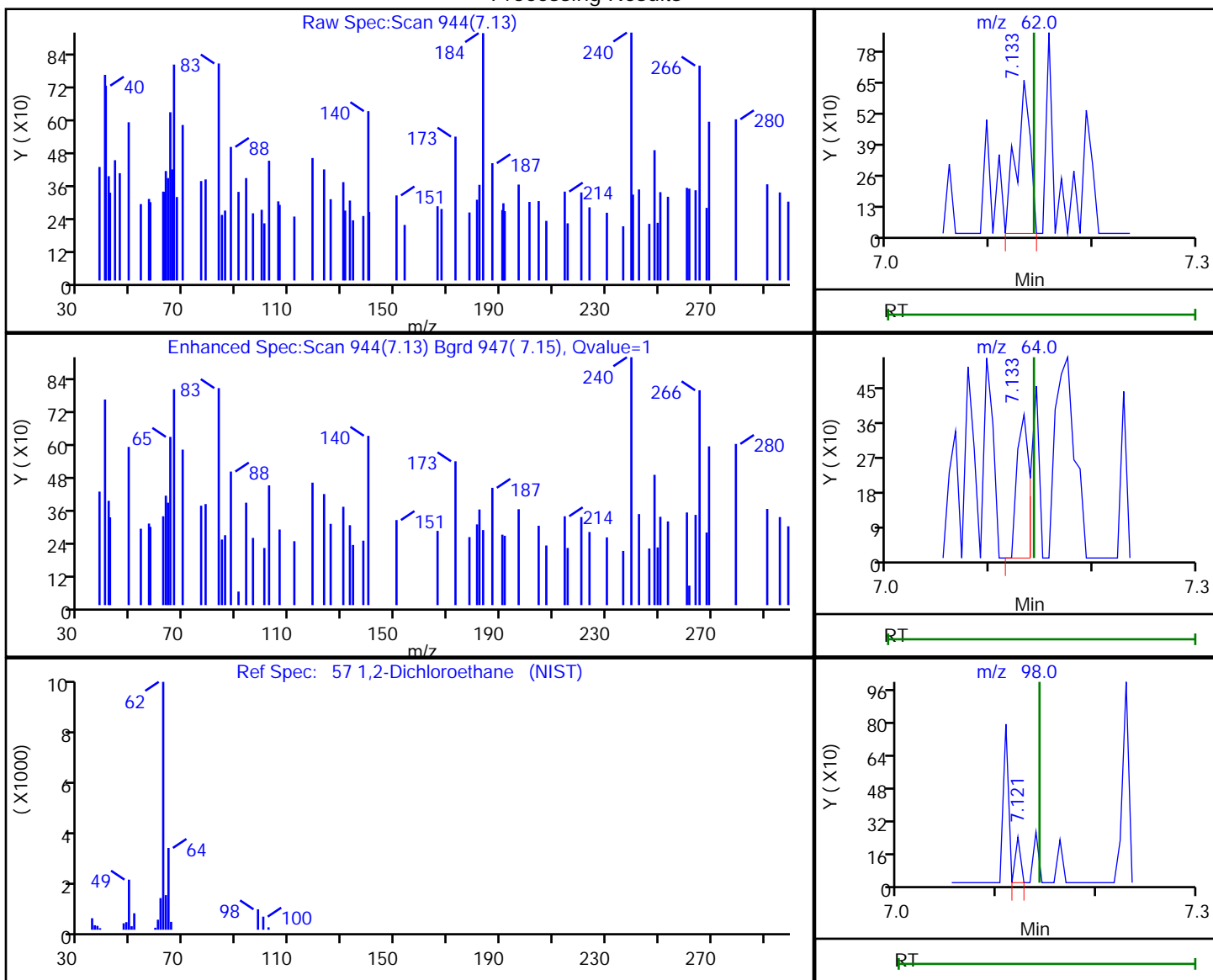
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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Injection Date: 19-Oct-2019 18:46:30 Instrument ID: CHHP6
Lims ID: 180-97133-A-8 Lab Sample ID: 180-97133-8
Client ID: HD-QC8-0/1-2
Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

57 1,2-Dichloroethane, CAS: 107-06-2

Processing Results



RT	Mass	Response	Amount
7.13	62.00	606	0.140410
7.13	64.00	319	
7.12	98.00	82	

Reviewer: bowieh, 22-Oct-2019 09:50:30

Audit Action: Marked Compound Undetected

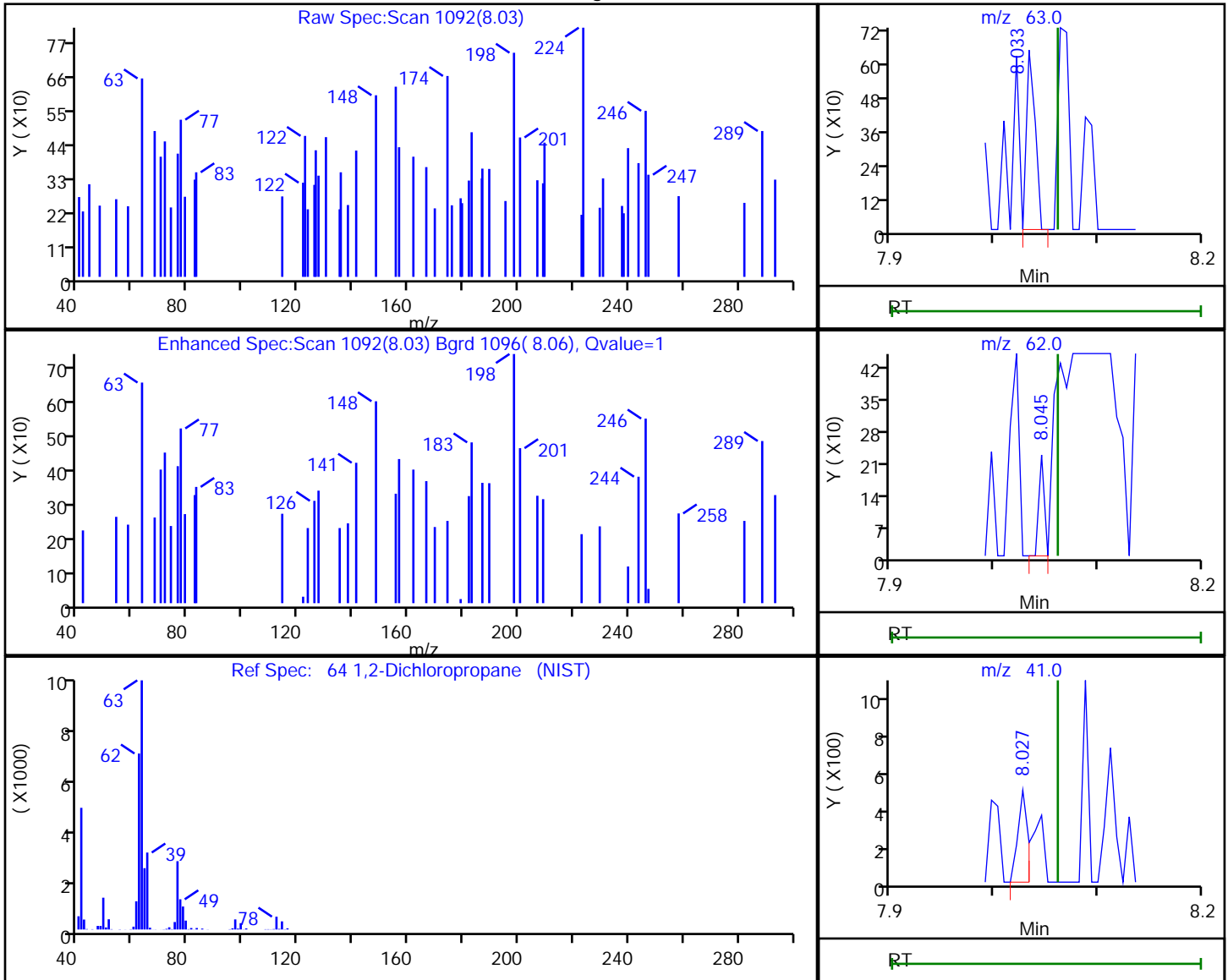
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Eurofins TestAmerica, Pittsburgh

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 Injection Date: 19-Oct-2019 18:46:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-8 Lab Sample ID: 180-97133-8
 Client ID: HD-QC8-0/1-2
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

64 1,2-Dichloropropane, CAS: 78-87-5

Processing Results



RT	Mass	Response	Amount
8.03	63.00	378	0.166288
8.05	62.00	81	
8.03	41.00	334	

Reviewer: bowieh, 22-Oct-2019 09:50:31

Audit Action: Marked Compound Undetected

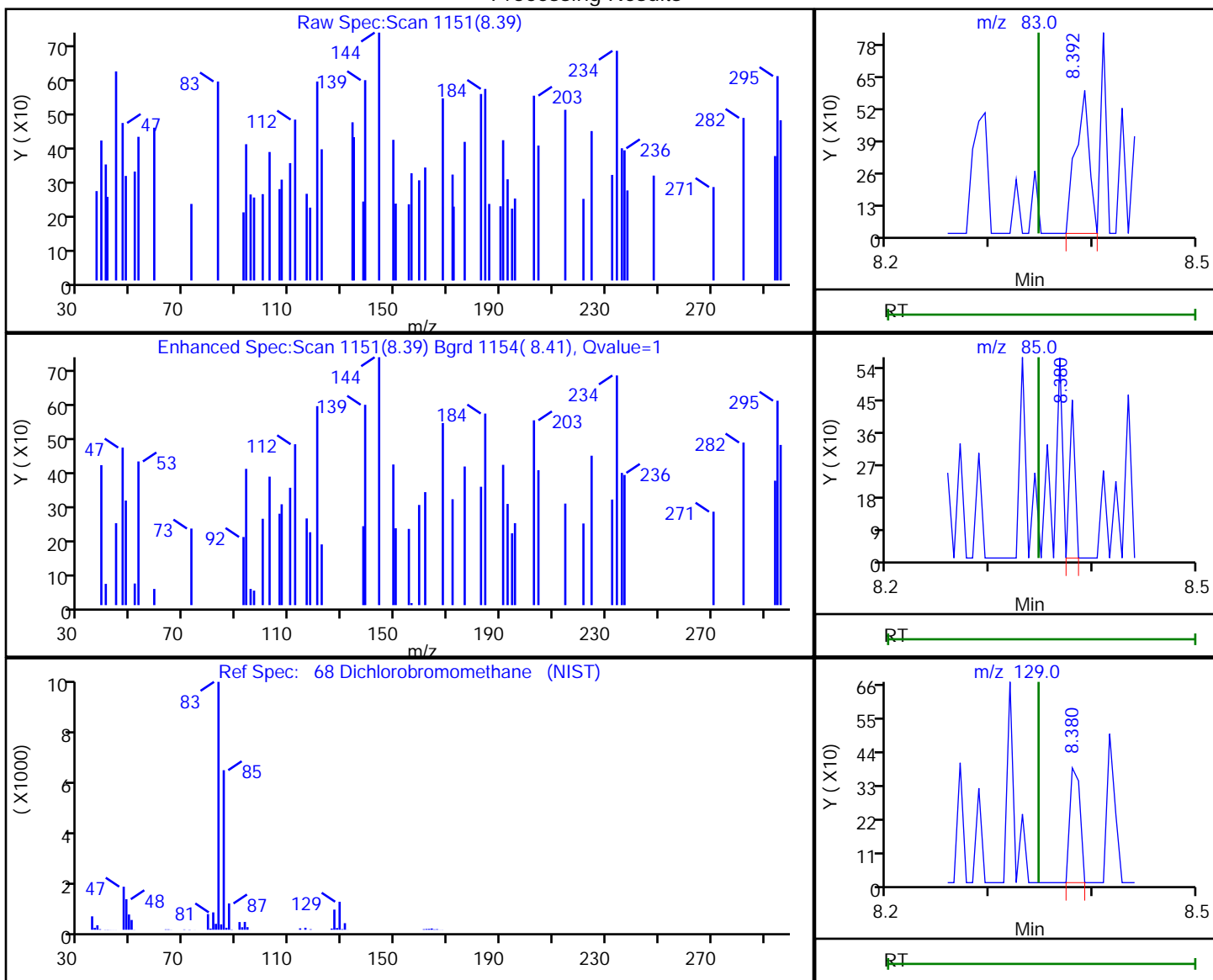
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 Injection Date: 19-Oct-2019 18:46:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-8 Lab Sample ID: 180-97133-8
 Client ID: HD-QC8-0/1-2
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

68 Dichlorobromomethane, CAS: 75-27-4

Processing Results



RT	Mass	Response	Amount
8.39	83.00	547	0.190326
8.38	85.00	163	
8.38	129.00	262	

Reviewer: bowieh, 22-Oct-2019 09:50:32

Audit Action: Marked Compound Undetected

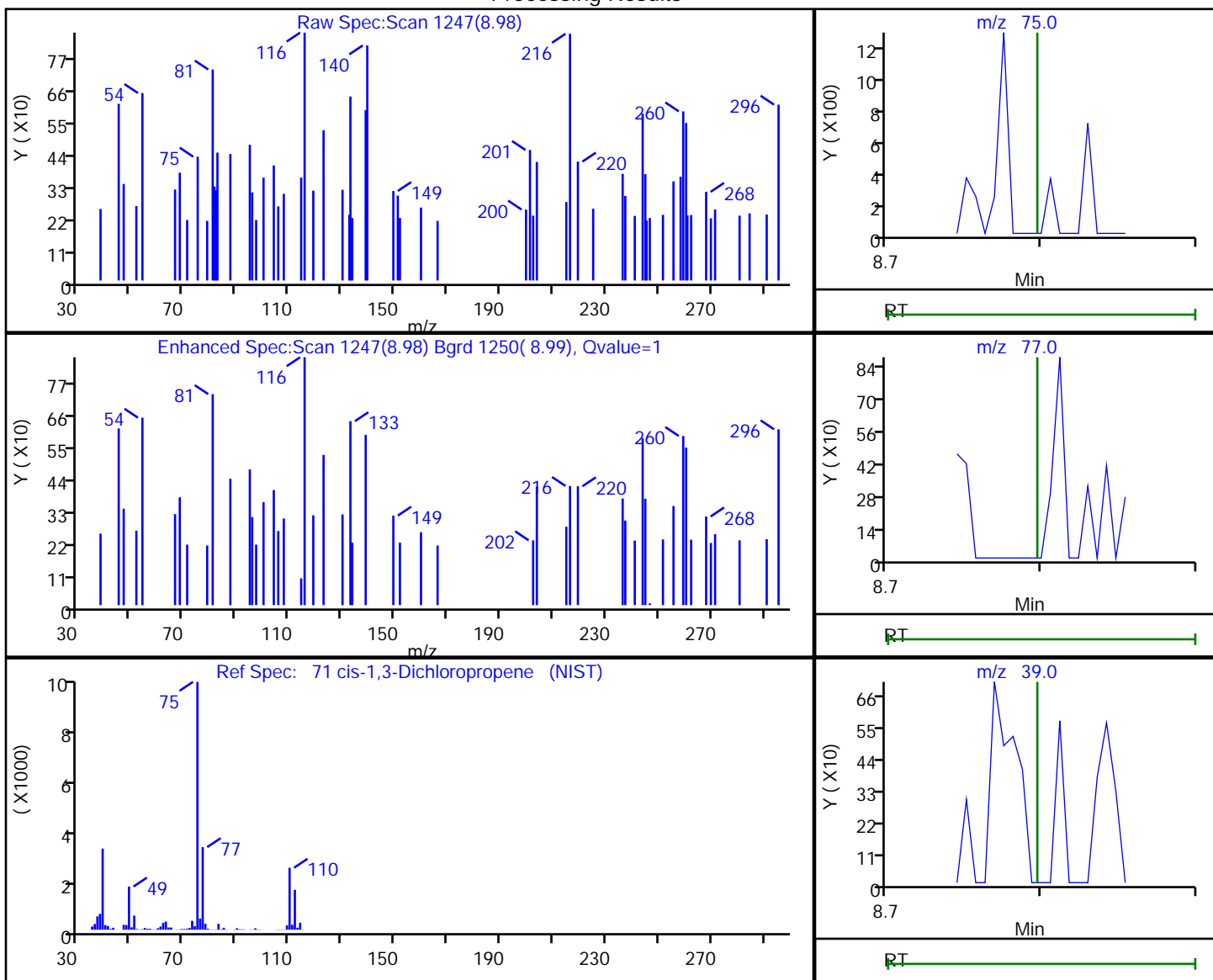
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 Lims ID: 180-97133-A-8 Lab Sample ID: 180-97133-8
 Client ID: HD-QC8-0/1-2
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

71 cis-1,3-Dichloropropene, CAS: 10061-01-5

Processing Results



RT	Mass	Response	Amount
8.98	75.00	239	0.080564
8.98	77.00	200	
8.98	39.00	385	

Reviewer: bowieh, 22-Oct-2019 09:50:34

Audit Action: Marked Compound Undetected

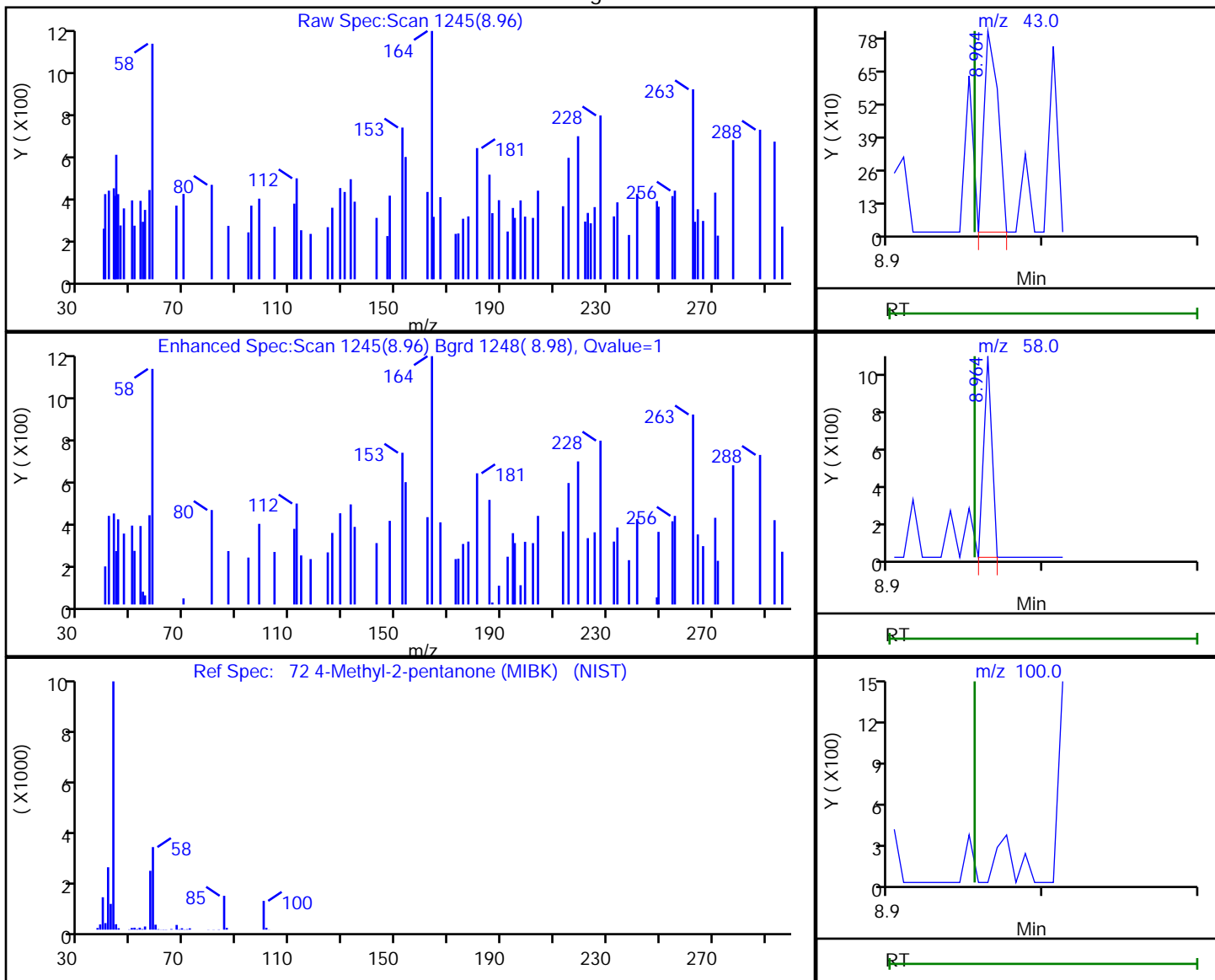
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 Lims ID: 180-97133-A-8 Lab Sample ID: 180-97133-8
 Client ID: HD-QC8-0/1-2
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

72 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
8.96	43.00	506	0.264297
8.96	58.00	398	
8.96	100.00	0	

Reviewer: bowieh, 22-Oct-2019 09:50:35

Audit Action: Marked Compound Undetected

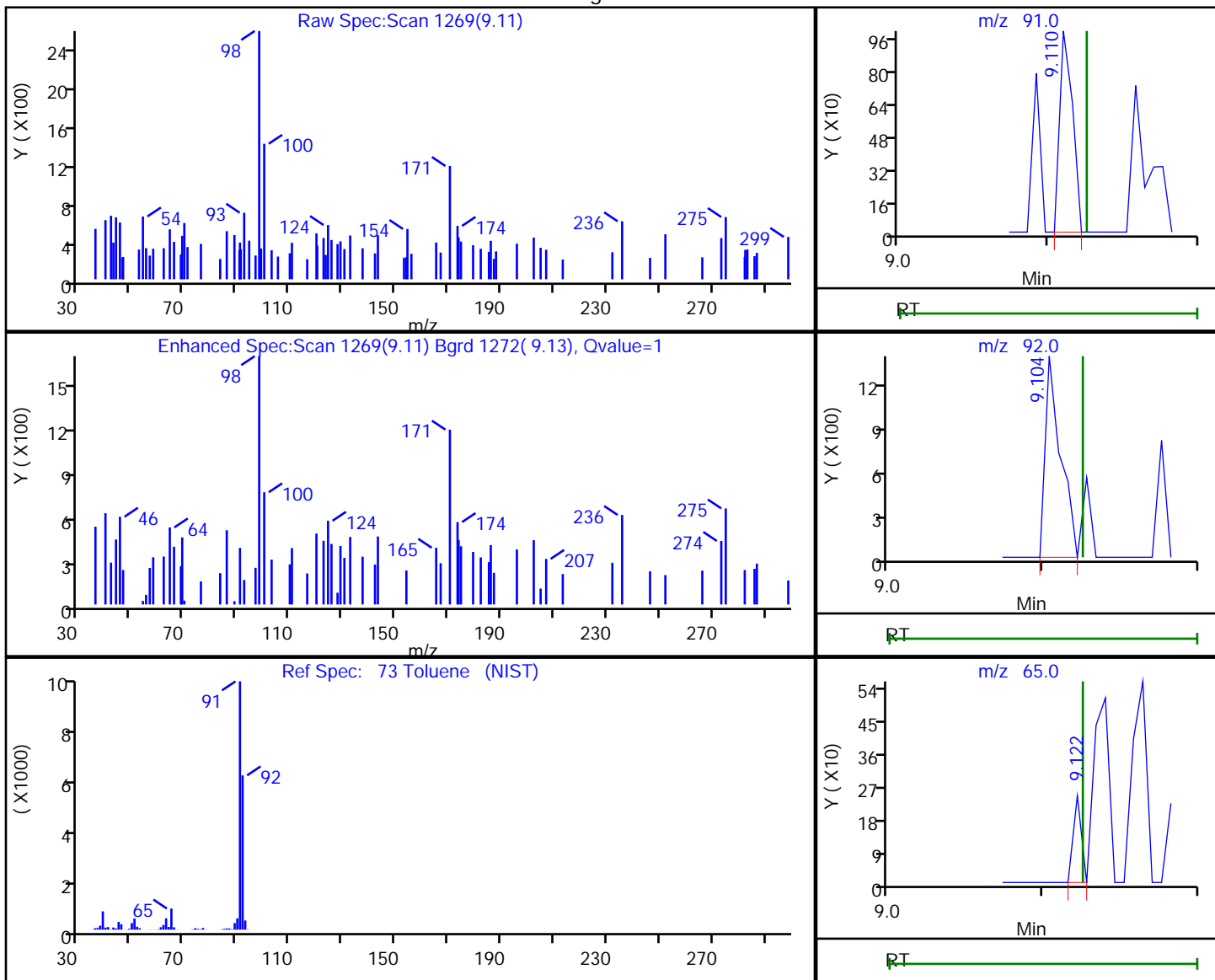
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Injection Date: 19-Oct-2019 18:46:30 Instrument ID: CHHP6
Lims ID: 180-97133-A-8 Lab Sample ID: 180-97133-8
Client ID: HD-QC8-0/1-2
Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

73 Toluene, CAS: 108-88-3

Processing Results



RT	Mass	Response	Amount
9.11	91.00	596	0.058661
9.10	92.00	921	
9.12	65.00	88	

Reviewer: bowieh, 22-Oct-2019 09:50:36

Audit Action: Marked Compound Undetected

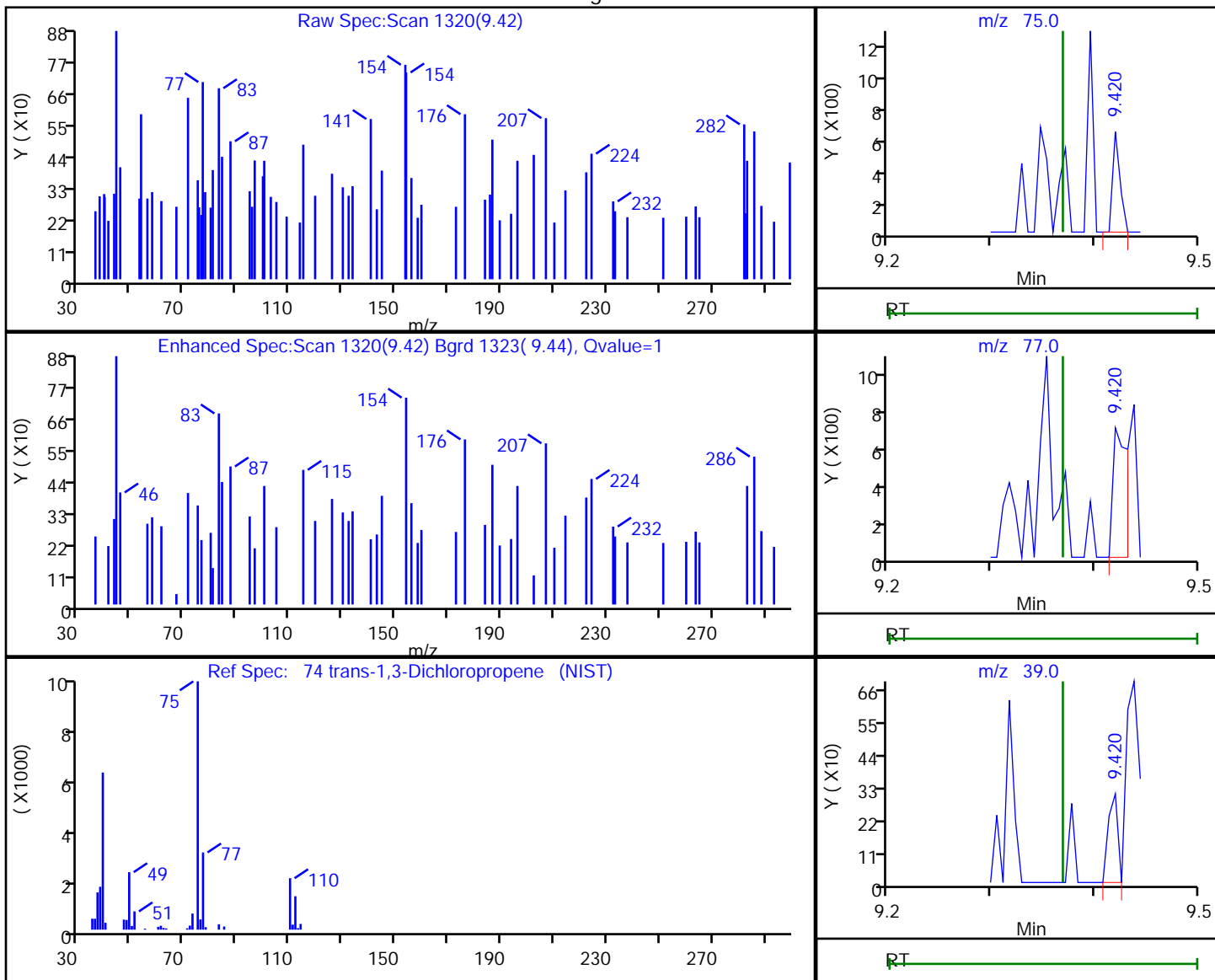
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Injection Date: 19-Oct-2019 18:46:30 Instrument ID: CHHP6
Lims ID: 180-97133-A-8 Lab Sample ID: 180-97133-8
Client ID: HD-QC8-0/1-2
Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

74 trans-1,3-Dichloropropene, CAS: 10061-02-6

Processing Results



RT	Mass	Response	Amount
9.42	75.00	304	1.863248
9.42	77.00	685	
9.42	39.00	193	

Reviewer: bowieh, 22-Oct-2019 09:50:37

Audit Action: Marked Compound Undetected

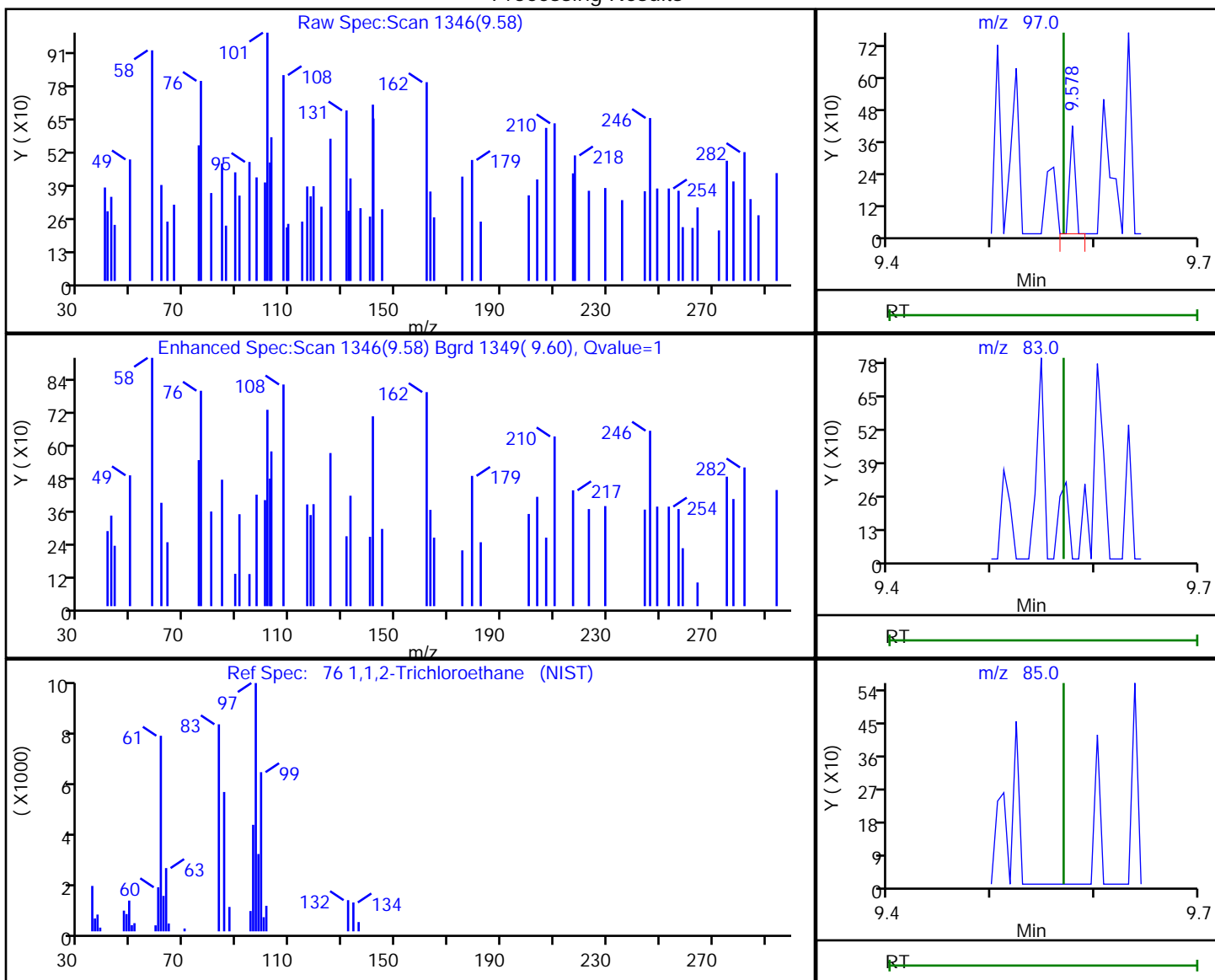
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101913.D
 Injection Date: 19-Oct-2019 18:46:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-8 Lab Sample ID: 180-97133-8
 Client ID: HD-QC8-0/1-2
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

76 1,1,2-Trichloroethane, CAS: 79-00-5

Processing Results



RT	Mass	Response	Amount
9.58	97.00	150	0.080008
9.57	83.00	0	
9.57	85.00	0	

Reviewer: bowieh, 22-Oct-2019 09:50:39

Audit Action: Marked Compound Undetected

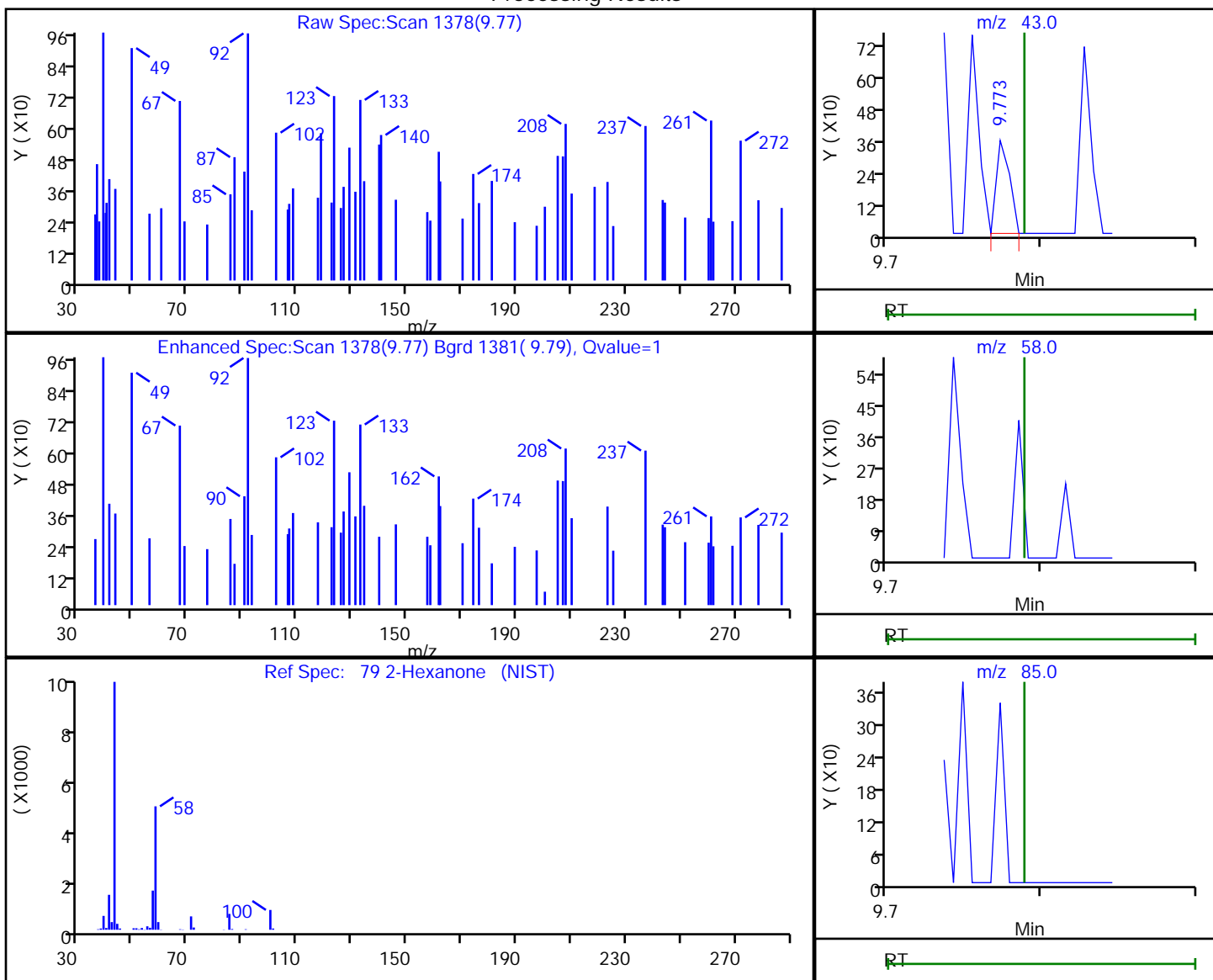
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101913.D
 Injection Date: 19-Oct-2019 18:46:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-8 Lab Sample ID: 180-97133-8
 Client ID: HD-QC8-0/1-2
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

79 2-Hexanone, CAS: 591-78-6

Processing Results



RT	Mass	Response	Amount
9.77	43.00	212	0.134784
9.79	58.00	0	
9.79	85.00	0	

Reviewer: bowieh, 22-Oct-2019 09:50:41

Audit Action: Marked Compound Undetected

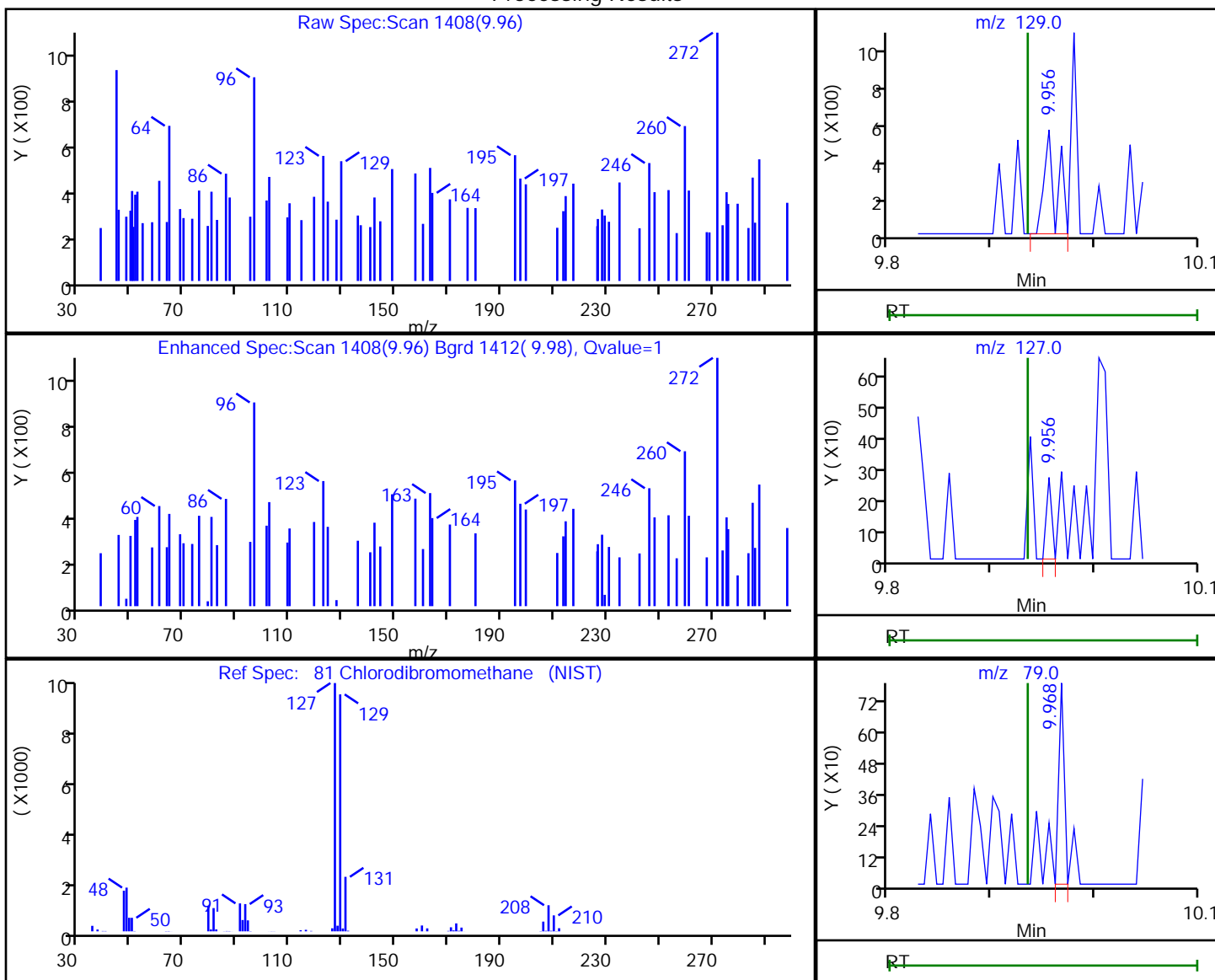
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101913.D
 Injection Date: 19-Oct-2019 18:46:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-8 Lab Sample ID: 180-97133-8
 Client ID: HD-QC8-0/1-2
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

81 Chlorodibromomethane, CAS: 124-48-1

Processing Results



RT	Mass	Response	Amount
9.96	129.00	427	0.233394
9.96	127.00	97	
9.97	79.00	286	

Reviewer: bowieh, 22-Oct-2019 09:50:42

Audit Action: Marked Compound Undetected

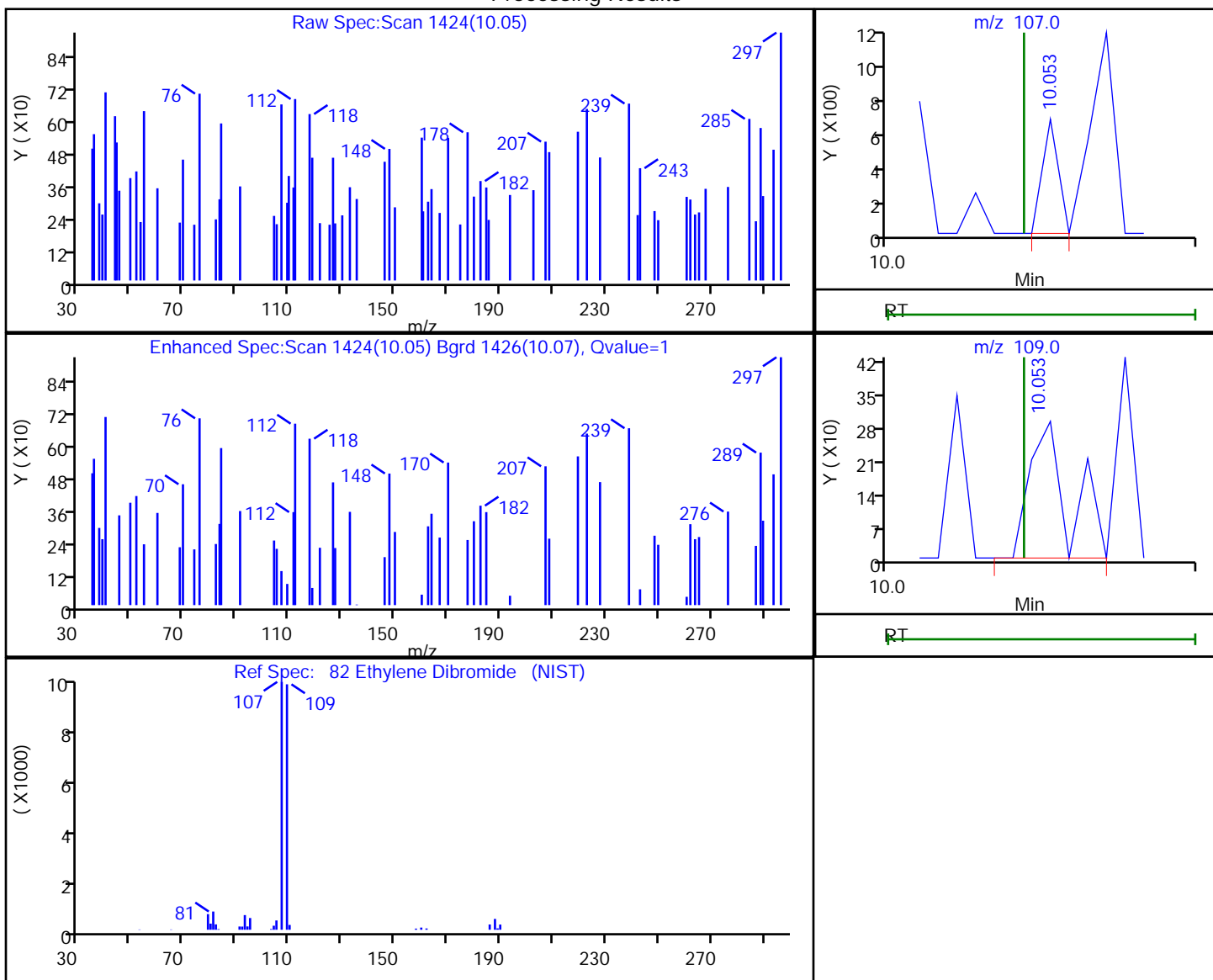
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101913.D
Injection Date: 19-Oct-2019 18:46:30 Instrument ID: CHHP6
Lims ID: 180-97133-A-8 Lab Sample ID: 180-97133-8
Client ID: HD-QC8-0/1-2
Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

82 Ethylene Dibromide, CAS: 106-93-4

Processing Results



RT	Mass	Response	Amount
10.05	107.00	240	0.125916
10.05	109.00	259	

Reviewer: bowieh, 22-Oct-2019 09:50:43

Audit Action: Marked Compound Undetected

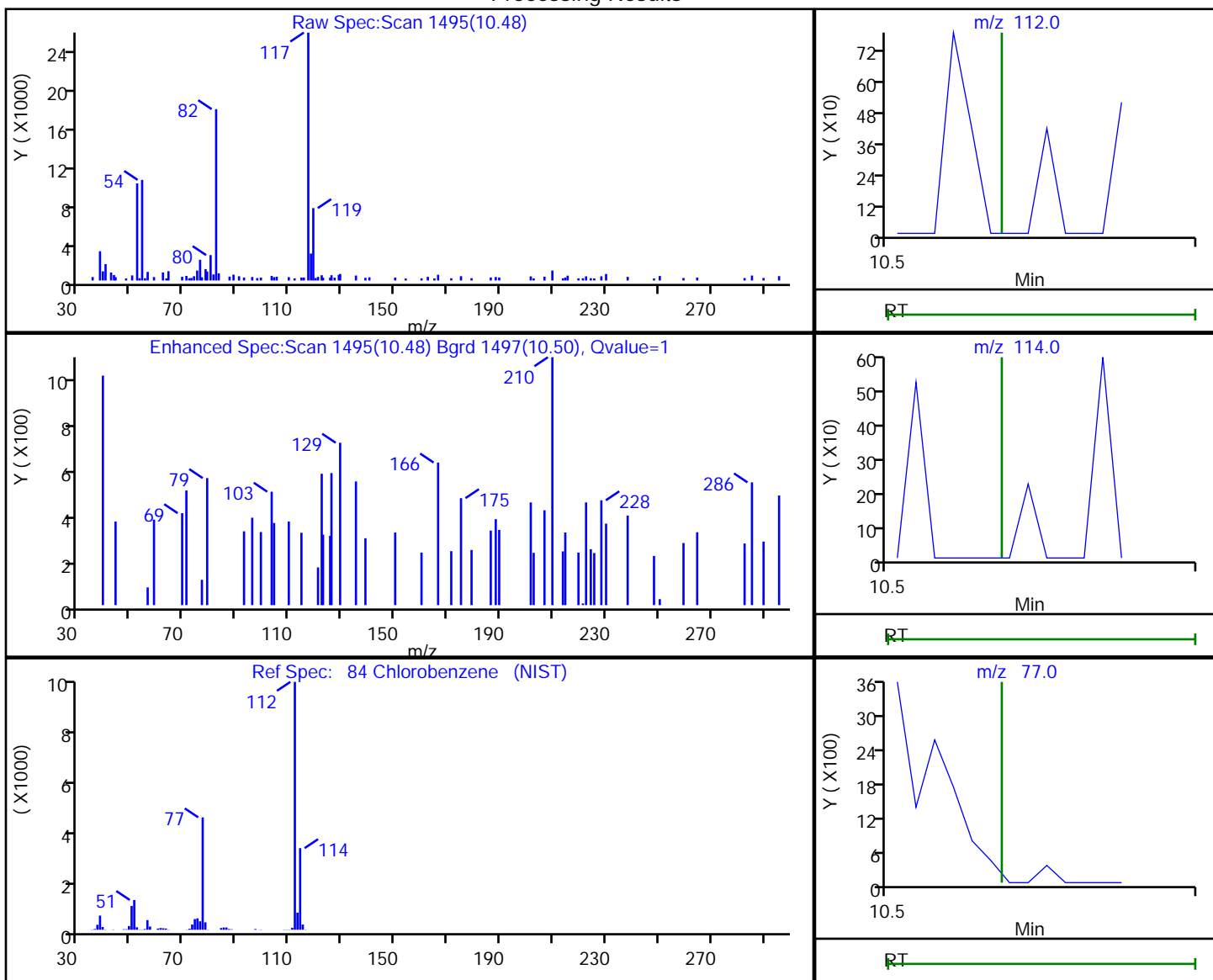
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101913.D
 Injection Date: 19-Oct-2019 18:46:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-8 Lab Sample ID: 180-97133-8
 Client ID: HD-QC8-0/1-2
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

84 Chlorobenzene, CAS: 108-90-7

Processing Results



RT	Mass	Response	Amount
10.48	112.00	80	0.011861
10.49	114.00	249	
10.49	77.00	648	

Reviewer: bowieh, 22-Oct-2019 09:50:51

Audit Action: Marked Compound Undetected

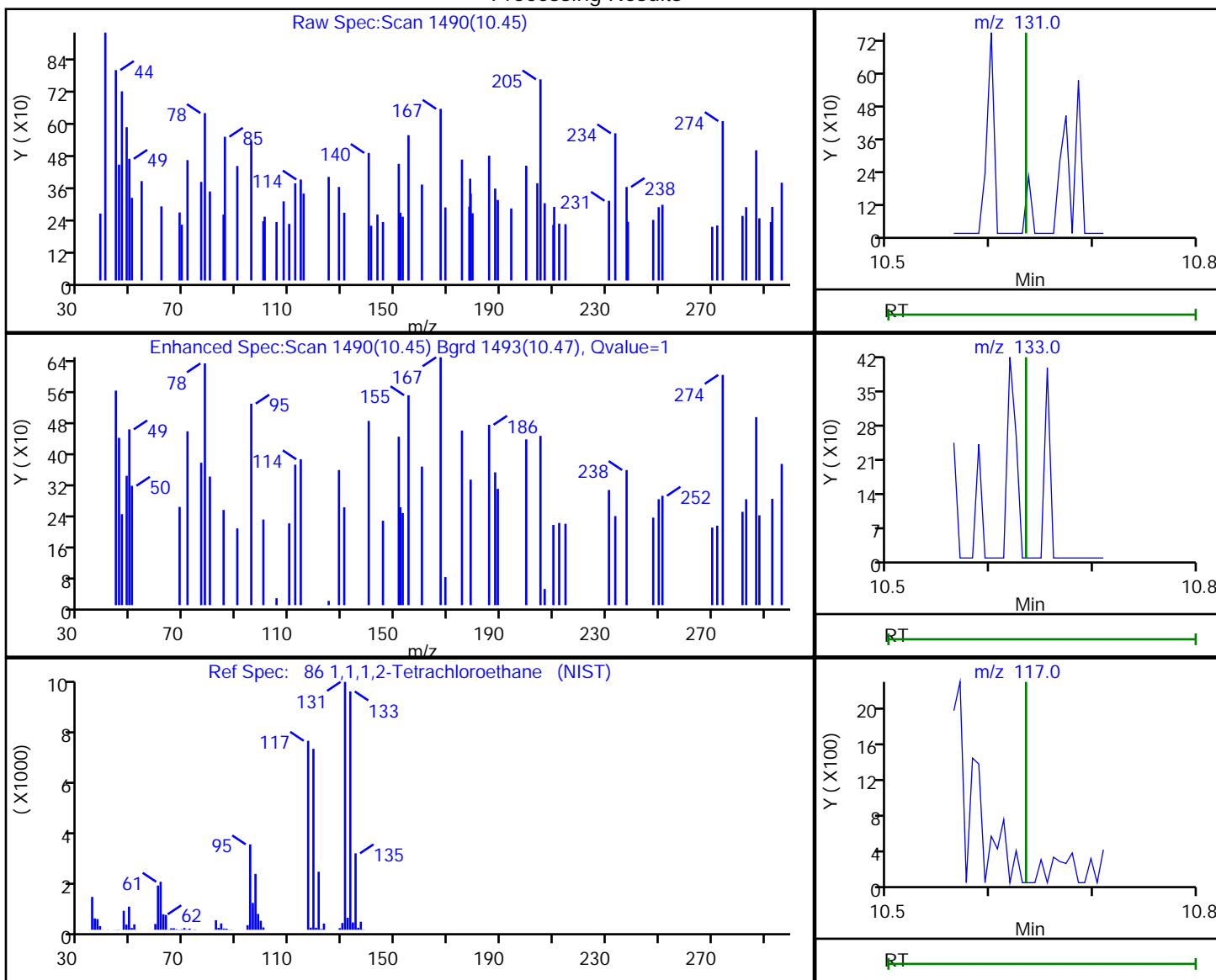
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101913.D
 Injection Date: 19-Oct-2019 18:46:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-8 Lab Sample ID: 180-97133-8
 Client ID: HD-QC8-0/1-2
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

86 1,1,1,2-Tetrachloroethane, CAS: 630-20-6

Processing Results



RT	Mass	Response	Amount
10.45	131.00	182	0.084286
10.45	133.00	196	
10.63	117.00	0	

Reviewer: bowieh, 22-Oct-2019 09:50:54

Audit Action: Marked Compound Undetected

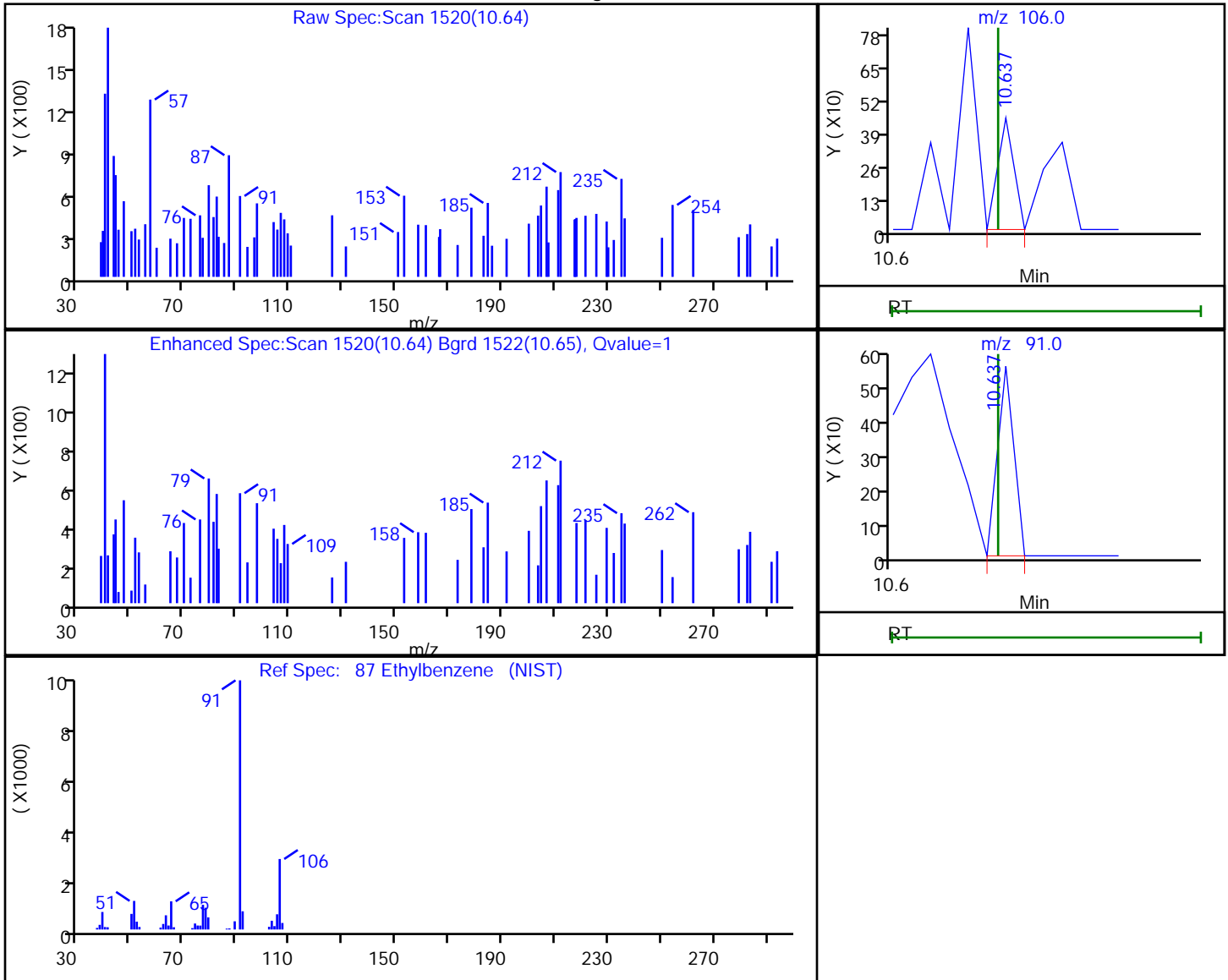
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101913.D
Injection Date: 19-Oct-2019 18:46:30 Instrument ID: CHHP6
Lims ID: 180-97133-A-8 Lab Sample ID: 180-97133-8
Client ID: HD-QC8-0/1-2
Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

87 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
10.64	106.00	162	0.040979
10.64	91.00	205	

Reviewer: bowieh, 22-Oct-2019 09:50:52

Audit Action: Marked Compound Undetected

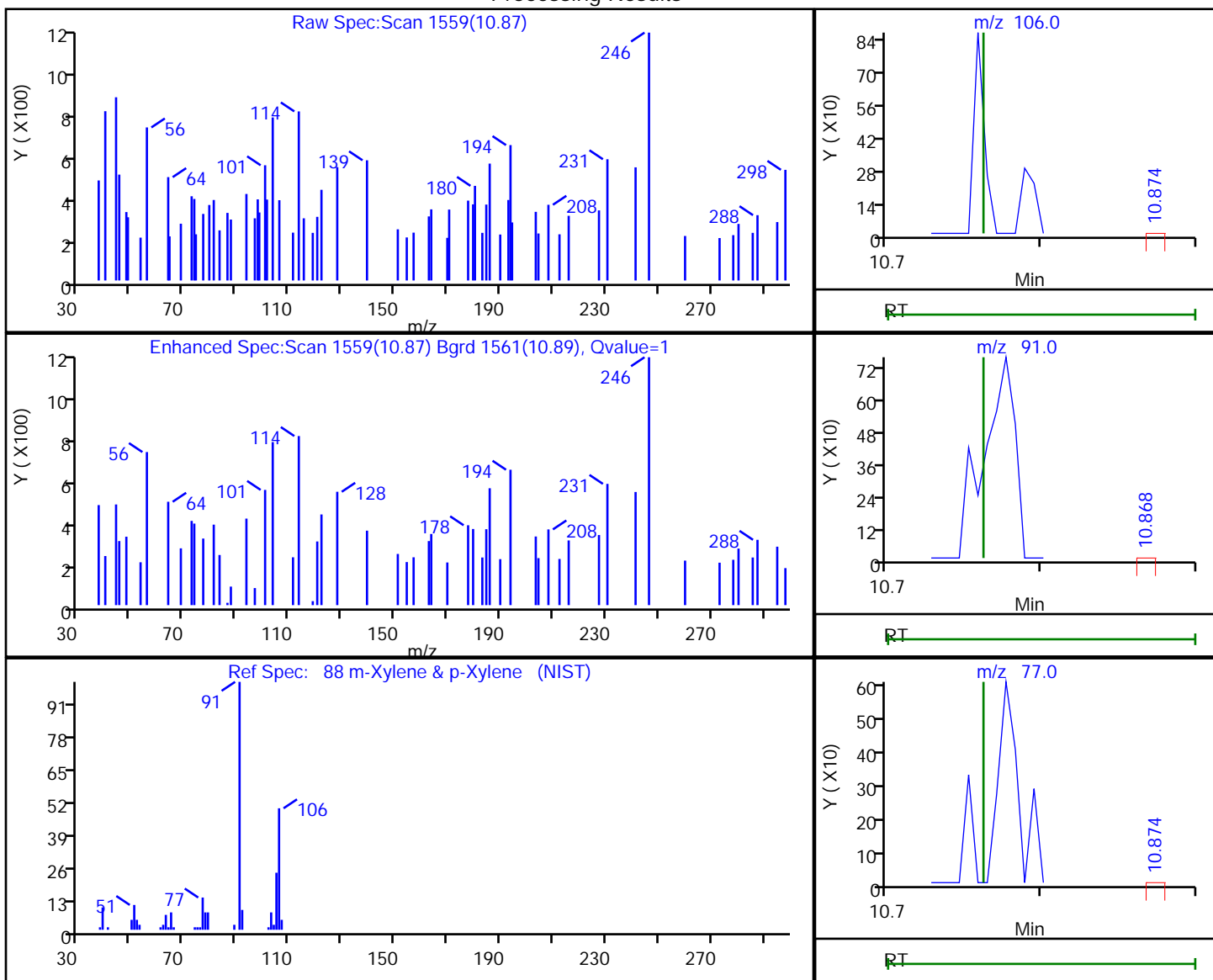
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101913.D
 Injection Date: 19-Oct-2019 18:46:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-8 Lab Sample ID: 180-97133-8
 Client ID: HD-QC8-0/1-2
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

88 m-Xylene & p-Xylene, CAS: 179601-23-1

Processing Results



RT	Mass	Response	Amount
10.87	106.00	141	0.029206
10.87	91.00	297	
10.87	77.00	117	

Reviewer: bowieh, 22-Oct-2019 09:50:55

Audit Action: Marked Compound Undetected

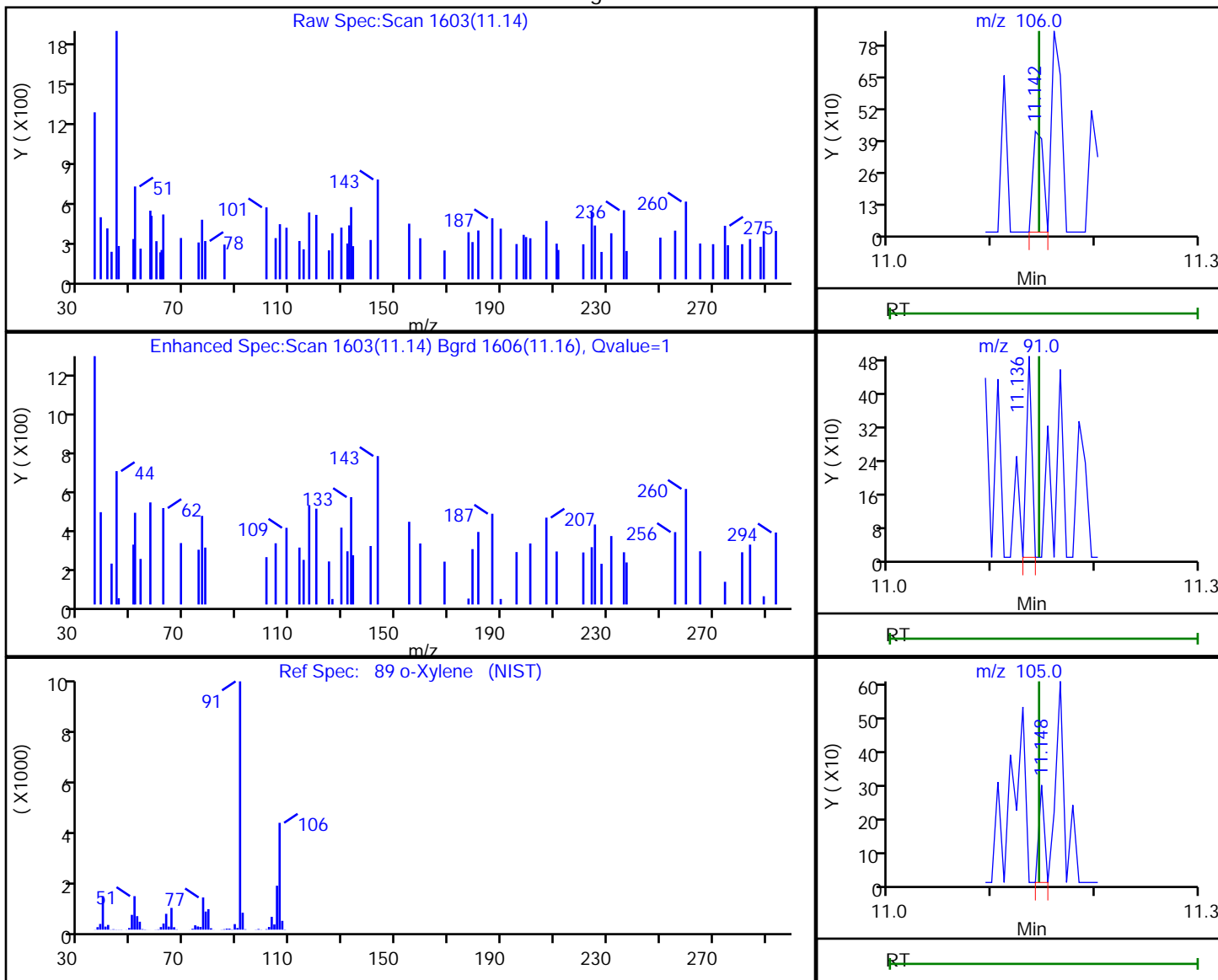
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101913.D
 Injection Date: 19-Oct-2019 18:46:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-8 Lab Sample ID: 180-97133-8
 Client ID: HD-QC8-0/1-2
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

89 o-Xylene, CAS: 95-47-6

Processing Results



RT	Mass	Response	Amount
11.14	106.00	294	0.063305
11.14	91.00	176	
11.15	105.00	107	

Reviewer: bowieh, 22-Oct-2019 09:50:56

Audit Action: Marked Compound Undetected

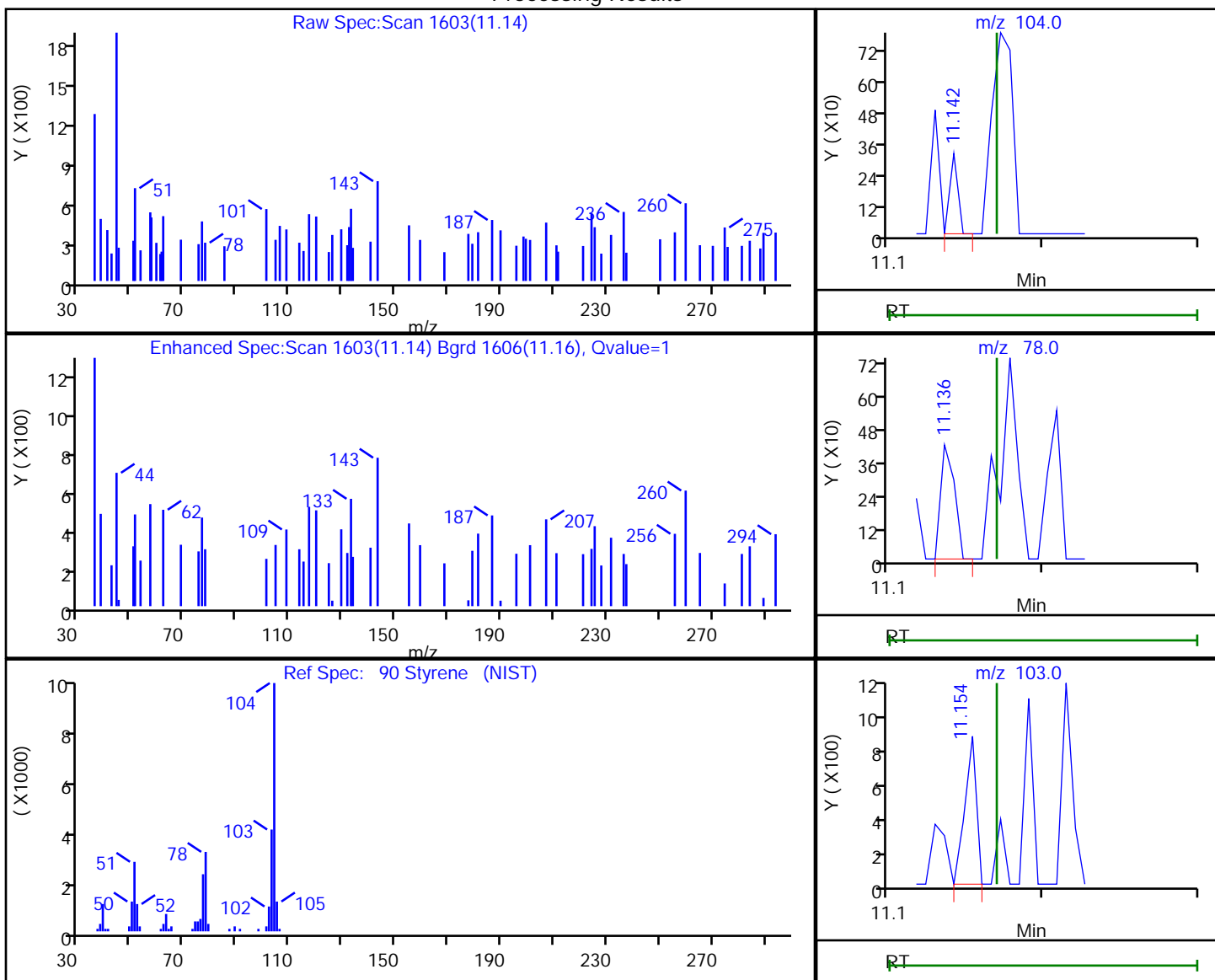
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101913.D
 Injection Date: 19-Oct-2019 18:46:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-8 Lab Sample ID: 180-97133-8
 Client ID: HD-QC8-0/1-2
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

90 Styrene, CAS: 100-42-5

Processing Results



RT	Mass	Response	Amount
11.14	104.00	114	0.015448
11.14	78.00	259	
11.15	103.00	449	

Reviewer: bowieh, 22-Oct-2019 09:50:57

Audit Action: Marked Compound Undetected

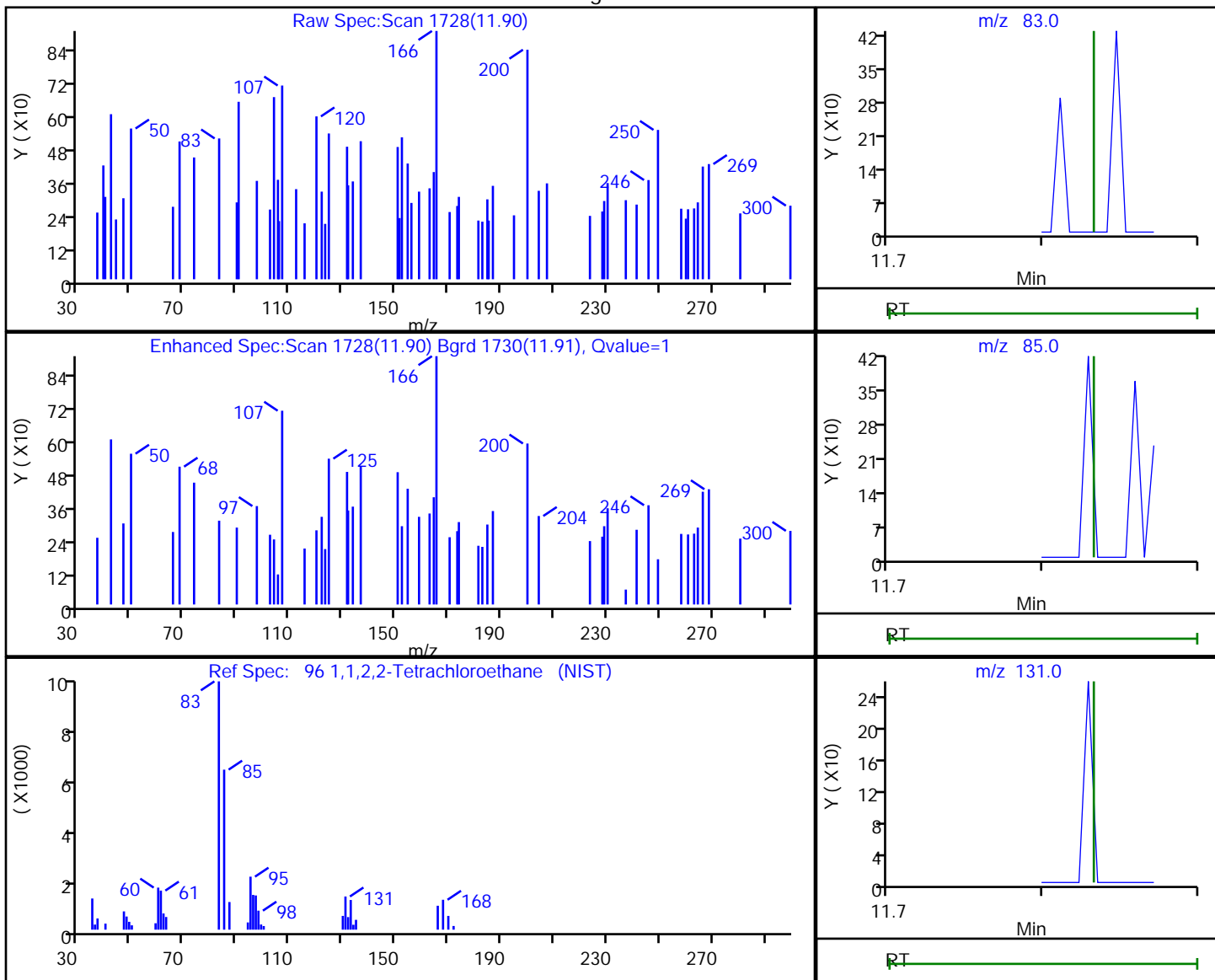
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101913.D
 Injection Date: 19-Oct-2019 18:46:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-8 Lab Sample ID: 180-97133-8
 Client ID: HD-QC8-0/1-2
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

96 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Processing Results



RT	Mass	Response	Amount
11.90	83.00	187	0.093986
11.90	85.00	348	
11.90	131.00	266	

Reviewer: bowieh, 22-Oct-2019 09:51:01

Audit Action: Marked Compound Undetected

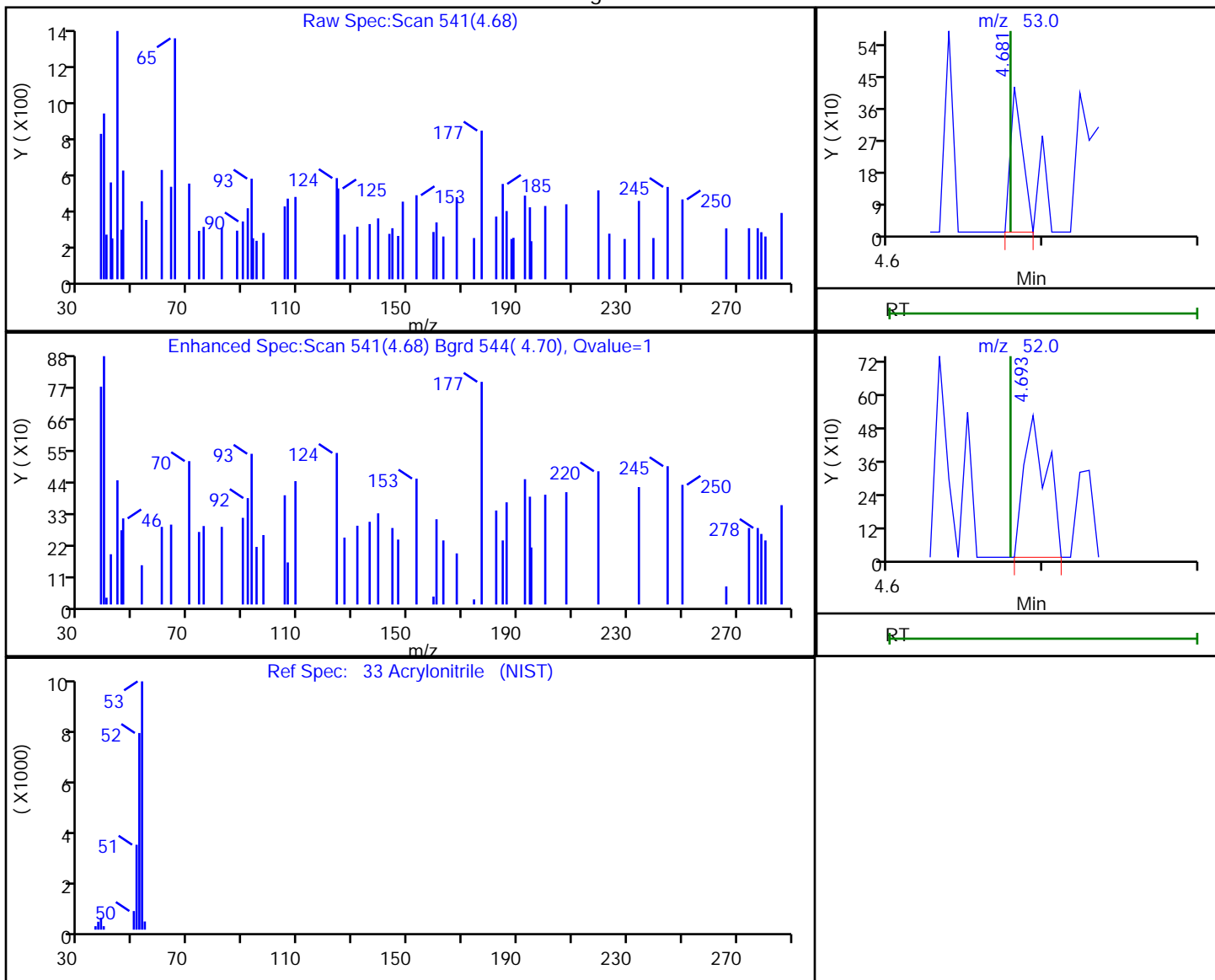
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101913.D
 Injection Date: 19-Oct-2019 18:46:30 Instrument ID: CHHP6
 Lims ID: 180-97133-A-8 Lab Sample ID: 180-97133-8
 Client ID: HD-QC8-0/1-2
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

33 Acrylonitrile, CAS: 107-13-1

Processing Results



RT	Mass	Response	Amount
4.68	53.00	227	0.259067
4.69	52.00	547	

Reviewer: bowieh, 22-Oct-2019 09:50:15

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

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

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1 Analy Batch No.: 295392

SDG No.: _____

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/18/2019 15:43 Calibration End Date: 10/18/2019 18:47 Calibration ID: 41783

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-295392/4	6101810.D
Level 2	IC 180-295392/5	6101811.D
Level 3	ICIS 180-295392/6	6101812.D
Level 4	IC 180-295392/7	6101813.D
Level 5	IC 180-295392/8	6101814.D
Level 6	IC 180-295392/9	6101815.D
Level 7	IC 180-295392/10	6101816.D
Level 8	IC 180-295392/11	6101817.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
Dichlorodifluoromethane	0.6192 0.4881	0.4886 0.4808	0.4375 0.5014	0.5226	0.5151	Ave		0.5067		0.1000	10.3		20.0				
Chloromethane	0.4307 0.4238	0.4218 0.4269	0.3767 0.4442	0.4188	0.4379	Ave		0.4226		0.1000	4.8		20.0				
Vinyl chloride	0.3726 0.3453	0.3550 0.3652	0.3122 0.3798	0.3679	0.3716	Ave		0.3587		0.1000	6.0		20.0				
1,3-Butadiene	0.4745 0.3890	0.4153 0.3935	0.3638 0.4131	0.4117	0.4052	Ave		0.4083		0.0100	7.8		20.0				
Bromomethane	0.1808 0.1399	0.1530 0.1468	0.1334 0.1444	0.1546	0.1579	Ave		0.1514		0.0500	9.5		20.0				
Chloroethane	0.2593 0.1661	0.1857 0.1711	0.1574 0.1725	0.1795	0.1725	Lin2	0.4640	0.1657		0.0500				0.9970		0.9900	
Dichlorofluoromethane	0.5425 0.4771	0.5387 0.4814	0.4386 0.4908	0.5172	0.5248	Ave		0.5014		0.0100	7.1		20.0				
Trichlorofluoromethane	0.6643 0.5503	0.5975 0.5448	0.5036 0.5658	0.5605	0.5917	Ave		0.5723		0.1000	8.3		20.0				
Ethyl ether	0.2230 0.2260	0.2311 0.2230	0.2000 0.2256	0.2235	0.2255	Ave		0.2222		0.0100	4.2		20.0				
Acrolein	0.0315 0.0340	0.0308 0.0319	0.0297 0.0320	0.0337	0.0299	Ave		0.0317		0.0100	5.0		20.0				
1,1-Dichloroethene	0.2269 0.2381	0.2495 0.2474	0.2122 0.2528	0.2446	0.2431	Ave		0.2393		0.1000	5.7		20.0				
1,1,2-Trichloro-1,2,2-trifluoroethane	0.3258 0.2811	0.2875 0.2863	0.2761 0.2919	0.2914	0.3022	Ave		0.2928		0.1000	5.3		20.0				
Acetone	0.1362 0.1358	0.1771 +++++	0.1367 +++++	0.1333	0.1274	Ave		0.1411		0.0500	12.7		20.0				
Iodomethane	0.4319 0.3612	0.3578 0.3852	0.3847 0.3947	0.3779	0.4056	Ave		0.3874		0.0100	6.2		20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1 Analy Batch No.: 295392

SDG No.: _____

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/18/2019 15:43 Calibration End Date: 10/18/2019 18:47 Calibration ID: 41783

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
Carbon disulfide	0.5556 0.6521	0.6282 0.6917	0.5639 0.7485	0.6502	0.7062	Ave		0.6495			0.1000	10.3	20.0				
Allyl chloride	0.1346 0.1394	0.1245 0.1479	0.1102 0.1627	0.1520	0.1546	Ave		0.1407			0.0100	12.3	20.0				
Methyl acetate	0.1960 0.1937	0.1814 0.1876	0.1760 0.1922	0.1893	0.1955	Ave		0.1890			0.1000	3.8	20.0				
Methylene Chloride	0.4327 0.2693	0.3087 0.2752	0.2596 0.2793	0.2844	0.2952	Lin2	0.8088	0.2704			0.1000			0.9970		0.9900	
tert-Butyl alcohol	0.9789 0.9853	0.8702 1.0644	0.8744 1.2831	1.0591	1.1632	Ave		1.0348			0.0100	13.6	20.0				
Acrylonitrile	0.1045 0.0956	0.0908 0.0943	0.0927 0.0936	0.0942	0.0992	Ave		0.0956			0.0100	4.5	20.0				
trans-1,2-Dichloroethene	0.3108 0.2706	0.3048 0.2836	0.2587 0.2919	0.2827	0.3027	Ave		0.2882			0.1000	6.2	20.0				
Methyl tert-butyl ether	0.6216 0.6453	0.5781 0.6319	0.6001 0.6525	0.6031	0.6521	Ave		0.6231			0.1000	4.4	20.0				
Hexane	0.5314 0.4856	0.4954 0.4907	0.4426 0.5121	0.5072	0.5289	Ave		0.4992			0.0100	5.7	20.0				
1,1-Dichloroethane	0.5672 0.4938	0.4843 0.4914	0.4553 0.5042	0.5100	0.5224	Ave		0.5036			0.2000	6.5	20.0				
Vinyl acetate	0.4110 0.4479	0.4468 0.4569	0.3763 0.4344	0.4141	0.4151	Ave		0.4253			0.0100	6.2	20.0				
2,2-Dichloropropane	0.0775 0.0603	0.0573 0.0571	0.0465 0.0627	0.0594	0.0592	Ave		0.0600			0.0100	14.2	20.0				
cis-1,2-Dichloroethene	0.3251 0.3041	0.2694 0.2976	0.2795 0.3023	0.3048	0.3152	Ave		0.2997			0.1000	6.0	20.0				
2-Butanone (MEK)	0.1347 0.1425	0.1781 0.1367	0.1429 0.1230	0.1403	0.1328	Ave		0.1414			0.0500	11.4	20.0				
Bromochloromethane	0.1548 0.1364	0.1299 0.1384	0.1257 0.1404	0.1341	0.1331	Ave		0.1366			0.0100	6.4	20.0				
Tetrahydrofuran	0.1052 0.0692	0.0646 0.0721	0.0672 0.0703	0.0649	0.0657	Lin2	0.3804	0.0653			0.0100			0.9940		0.9900	
Chloroform	0.6775 0.4976	0.5117 0.4835	0.4757 0.4892	0.4992	0.5244	Ave		0.5198			0.2000	12.6	20.0				
1,1,1-Trichloroethane	0.4058 0.4514	0.4262 0.4444	0.3974 0.4658	0.4546	0.4799	Ave		0.4407			0.1000	6.5	20.0				
Cyclohexane	0.6216 0.5933	0.5957 0.5902	0.5321 0.6223	0.6181	0.6329	Ave		0.6008			0.1000	5.3	20.0				
Carbon tetrachloride	0.3619 0.3809	0.3630 0.3883	0.3275 0.3980	0.3675	0.3974	Ave		0.3730			0.1000	6.3	20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1 Analy Batch No.: 295392

SDG No.: _____

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/18/2019 15:43 Calibration End Date: 10/18/2019 18:47 Calibration ID: 41783

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
1,1-Dichloropropene	0.4232 0.3882	0.3968 0.3896	0.3709 0.4075	0.4137	0.4167	Ave		0.4008			0.0100	4.4	20.0				
Isobutyl alcohol	0.0053 0.0064	0.0054 0.0066	0.0054 0.0066	0.0056	0.0066	Ave		0.0060		*	0.0100	10.2	20.0				
Benzene	1.2178 0.9842	1.1027 0.9669	0.9481 0.9840	1.0311	1.0817	Ave		1.0396			0.5000	8.7	20.0				
1,2-Dichloroethane	0.5623 0.4659	0.4642 0.4573	0.4296 0.4560	0.4542	0.4787	Ave		0.4710			0.1000	8.4	20.0				
n-Heptane	0.5554 0.4736	0.4705 0.4754	0.4339 0.4925	0.4904	0.5019	Ave		0.4867			0.0100	7.1	20.0				
Trichloroethene	0.3818 0.3097	0.3127 0.3076	0.2822 0.3258	0.3286	0.3238	Ave		0.3215			0.2000	8.8	20.0				
Methylcyclohexane	0.5474 0.5333	0.5235 0.5386	0.4819 0.5434	0.5508	0.5854	Ave		0.5380			0.1000	5.4	20.0				
1,2-Dichloropropane	0.2822 0.2394	0.2431 0.2433	0.2181 0.2576	0.2498	0.2513	Ave		0.2481			0.1000	7.3	20.0				
1,4-Dioxane	0.0035 0.0020	0.0015 0.0020	0.0017 0.0022	0.0020	0.0018	Qua	0.1112	0.0016	0.0000001	*	0.0100			0.9980		0.9900	
Dibromomethane	0.1705 0.1435	0.1284 0.1420	0.1437 0.1551	0.1433	0.1566	Ave		0.1479			0.0100	8.5	20.0				
Bromodichloromethane	0.2797 0.3261	0.3010 0.3273	0.2812 0.3437	0.3150	0.3353	Ave		0.3137			0.2000	7.7	20.0				
cis-1,3-Dichloropropene	0.2598 0.3537	0.2772 0.3575	0.2751 0.3759	0.3356	0.3552	Ave		0.3238			0.2000	14.1	20.0				
4-Methyl-2-pentanone (MIBK)	0.6901 0.9184	0.8990 0.8387	0.7798 0.8845	0.9122	0.8576	Ave		0.8475			0.1000	9.2	20.0				
Toluene	4.7118 4.2532	4.7039 4.1386	4.1724 4.4028	5.0272	4.5725	Ave		4.4978			0.4000	6.9	20.0				
trans-1,3-Dichloropropene	0.8579 1.3043	0.9755 1.2539	1.0921 1.4133	1.2676	1.2283	Lin2	-2.206	1.2563			0.1000			0.9910		0.9900	
Ethyl methacrylate	0.7979 1.1334	1.0258 1.1068	1.0215 1.2528	1.1291	1.1418	Ave		1.0761			0.0100	12.4	20.0				
1,1,2-Trichloroethane	0.8449 0.8110	0.8323 0.8006	0.7309 0.8987	0.8670	0.8544	Ave		0.8300			0.1000	6.1	20.0				
Tetrachloroethene	0.9594 0.9212	0.9464 0.8972	0.8397 1.0015	1.0500	0.9522	Ave		0.9460			0.2000	6.7	20.0				
1,3-Dichloropropane	1.5172 1.3804	1.4890 1.3770	1.3226 1.5225	1.4868	1.4778	Ave		1.4466			0.0100	5.2	20.0				
2-Hexanone	0.5747 0.7792	0.7617 0.6972	0.6443 0.6506	0.7661	0.6967	Ave		0.6963			0.1000	10.2	20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1 Analy Batch No.: 295392

SDG No.: _____

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/18/2019 15:43 Calibration End Date: 10/18/2019 18:47 Calibration ID: 41783

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
Dibromochloromethane	0.7773 0.8834	0.7009 0.8274	0.6645 0.9681	0.8538	0.8040	Ave		0.8099			0.1000	12.1	20.0				
1,2-Dibromoethane (EDB)	0.8276 0.8475	0.7813 0.8257	0.7594 0.9355	0.9113	0.8621	Ave		0.8438			0.1000	7.1	20.0				
Chlorobenzene	2.9725 2.8368	3.2867 2.7596	2.7381 3.0221	3.2235	3.0481	Ave		2.9859			0.5000	6.8	20.0				
1,1,1,2-Tetrachloroethane	0.9448 0.9796	0.9338 0.9284	0.7803 1.0781	1.0343	0.9680	Ave		0.9559			0.0100	9.2	20.0				
Ethylbenzene	1.7693 1.6922	1.7391 1.6742	1.5599 1.8632	1.9468	1.7559	Ave		1.7501			0.1000	6.7	20.0				
m-Xylene & p-Xylene	1.9319 2.1983	2.1285 2.0739	1.8833 2.3166	2.3199	2.2455	Ave		2.1372			0.1000	7.7	20.0				
o-Xylene	2.0963 1.9777	2.1162 1.9558	1.8469 2.1082	2.2491	2.0973	Ave		2.0560			0.3000	6.0	20.0				
Styrene	3.0269 3.2341	3.4311 3.1135	3.0025 3.4061	3.6106	3.3110	Ave		3.2670			0.3000	6.5	20.0				
Bromoform	0.3708 0.4281	0.4121 0.4275	0.3378 0.5259	0.4284	0.4218	Ave		0.4190			0.1000	13.0	20.0				
Isopropylbenzene	5.3025 5.2166	5.9264 4.9414	5.1266 5.3341	6.0788	5.5368	Ave		5.4329			0.1000	7.2	20.0				
Bromobenzene	1.0135 0.7229	0.7328 0.7284	0.7522 0.8044	0.7904	0.7721	Ave		0.7896			0.0100	12.1	20.0				
1,1,2,2-Tetrachloroethane	0.9035 0.8895	0.8464 0.8641	0.7609 0.9760	0.9038	0.9023	Ave		0.8808			0.3000	7.0	20.0				
trans-1,4-Dichloro-2-butene	0.1890 0.2663	0.2341 0.2730	0.2139 0.3018	0.2518	0.2475	Ave		0.2472			0.0100	14.3	20.0				
1,2,3-Trichloropropane	0.2999 0.2504	0.2621 0.2485	0.2588 0.2806	0.2715	0.2428	Ave		0.2643			0.0100	7.2	20.0				
N-Propylbenzene	1.0462 1.0170	1.1071 1.0021	1.0200 1.1366	1.2117	1.1040	Ave		1.0806			0.0100	6.7	20.0				
2-Chlorotoluene	0.8498 0.7936	0.8988 0.8014	0.8332 0.9106	0.9326	0.8444	Ave		0.8581			0.0100	5.9	20.0				
1,3,5-Trimethylbenzene	3.5376 2.8860	3.4836 2.7905	3.0346 3.0253	3.4278	3.1360	Ave		3.1652			0.0100	9.0	20.0				
4-Chlorotoluene	0.9571 0.8454	0.9951 0.8376	0.8671 0.9338	0.8953	0.8769	Ave		0.9011			0.0100	6.2	20.0				
tert-Butylbenzene	3.3321 2.5342	2.8096 2.4611	2.6201 2.6961	2.9710	2.7396	Ave		2.7705			0.0100	10.0	20.0				
1,2,4-Trimethylbenzene	3.4348 2.8382	3.1808 2.8047	3.1130 3.0241	3.4218	3.0870	Ave		3.1131			0.0100	7.5	20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1 Analy Batch No.: 295392

SDG No.: _____

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/18/2019 15:43 Calibration End Date: 10/18/2019 18:47 Calibration ID: 41783

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
sec-Butylbenzene	4.2137 3.5117	4.1064 3.4720	3.7745 3.6377	4.2993	3.9236	Ave		3.8674			0.0100	8.2	20.0				
1,3-Dichlorobenzene	1.7111 1.3501	1.5284 1.3391	1.4412 1.4827	1.5652	1.4400	Ave		1.4822			0.6000	8.2	20.0				
4-Isopropyltoluene	3.7139 3.0736	3.5384 3.0306	3.2432 3.2587	3.7371	3.3939	Ave		3.3737			0.0100	8.0	20.0				
1,4-Dichlorobenzene	1.7511 1.3465	1.4191 1.3454	1.3449 1.5225	1.6012	1.4538	Ave		1.4731			0.5000	9.9	20.0				
n-Butylbenzene	2.9693 2.6458	2.8607 2.6170	2.6945 2.8384	3.1347	2.9514	Ave		2.8390			0.0100	6.3	20.0				
1,2-Dichlorobenzene	1.6206 1.2432	1.3249 1.2286	1.2577 1.3596	1.3954	1.3262	Ave		1.3445			0.4000	9.4	20.0				
1,2-Dibromo-3-Chloropropane	0.0829 0.0913	0.0751 0.0917	0.0804 0.1075	0.0955	0.0925	Ave		0.0896			0.0500	11.2	20.0				
1,2,4-Trichlorobenzene	0.7129 0.6376	0.5770 0.6534	0.6090 0.7218	0.6657	0.6742	Ave		0.6564			0.2000	7.5	20.0				
Hexachlorobutadiene	0.5281 0.3693	0.4173 0.3739	0.3675 0.4320	0.4124	0.3848	Ave		0.4107			0.0100	13.0	20.0				
Naphthalene	1.5002 1.4289	1.1477 1.4496	1.2080 1.6245	1.4415	1.4691	Ave		1.4087			0.0100	11.1	20.0				
1,2,3-Trichlorobenzene	0.5535 0.5198	0.4060 0.5328	0.4648 0.5668	0.5493	0.5219	Ave		0.5144			0.0100	10.4	20.0				
Dibromofluoromethane (Surr)	0.2773 0.2311	0.2269 0.2388	0.2246 0.2205	0.2350	0.2250	Ave		0.2349				7.7	20.0				
1,2-Dichloroethane-d4 (Surr)	0.4004 0.3610	0.3684 0.3593	0.3410 0.3272	0.3667	0.3481	Ave		0.3590				6.1	20.0				
Toluene-d8 (Surr)	4.0108 3.4807	3.6893 3.3884	3.6499 3.3435	4.0027	3.5292	Ave		3.6368				7.1	20.0				
4-Bromofluorobenzene (Surr)	1.4434 1.4904	1.5399 1.4715	1.5300 1.4931	1.5802	1.4640	Ave		1.5016				3.0	20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1 Analy Batch No.: 295392

SDG No.: _____

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/18/2019 15:43 Calibration End Date: 10/18/2019 18:47 Calibration ID: 41783

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-295392/4	6101810.D
Level 2	IC 180-295392/5	6101811.D
Level 3	ICIS 180-295392/6	6101812.D
Level 4	IC 180-295392/7	6101813.D
Level 5	IC 180-295392/8	6101814.D
Level 6	IC 180-295392/9	6101815.D
Level 7	IC 180-295392/10	6101816.D
Level 8	IC 180-295392/11	6101817.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			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
Dichlorodifluoromethane	FB	Ave	34307 872094	140098 1016051	234612 1474474	414157	555567	5.00 175	25.0 200	50.0 250	75.0	100
Chloromethane	FB	Ave	23865 757194	120942 902064	202013 1306123	331904	472361	5.00 175	25.0 200	50.0 250	75.0	100
Vinyl chloride	FB	Ave	20645 617040	101801 771666	167411 1116968	291524	400789	5.00 175	25.0 200	50.0 250	75.0	100
1,3-Butadiene	FB	Ave	26291 695033	119091 831575	195067 1214621	326243	437075	5.00 175	25.0 200	50.0 250	75.0	100
Bromomethane	FB	Ave	10016 250051	43861 310291	71551 424699	122552	170357	5.00 175	25.0 200	50.0 250	75.0	100
Chloroethane	FB	Lin2	14366 296841	53258 361615	84387 507170	142271	186008	5.00 175	25.0 200	50.0 250	75.0	100
Dichlorofluoromethane	FB	Ave	30057 852522	154471 1017236	235204 1443206	409910	566028	5.00 175	25.0 200	50.0 250	75.0	100
Trichlorofluoromethane	FB	Ave	36809 983308	171334 1151348	270020 1663674	444225	638175	5.00 175	25.0 200	50.0 250	75.0	100
Ethyl ether	FB	Ave	12356 403807	66276 471179	107244 663288	177120	243225	5.00 175	25.0 200	50.0 250	75.0	100
Acrolein	FB	Ave	34900 78077	44145 84268	47801 103455	62368	64567	100 225	125 250	150 275	175	200
1,1-Dichloroethene	FB	Ave	12570 425461	71551 522853	113810 743338	193813	262243	5.00 175	25.0 200	50.0 250	75.0	100
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	18054 502248	82432 604934	148050 858289	230963	325928	5.00 175	25.0 200	50.0 250	75.0	100
Acetone	FB	Ave	37727 485416	101582 +++++	146644 +++++	211335	274864	25.0 350	50.0 +++++	100 +++++	150	200
Iodomethane	FB	Ave	23931 645419	102611 814049	206282 1160792	299442	437464	5.00 175	25.0 200	50.0 250	75.0	100
Carbon disulfide	FB	Ave	30784 1165183	180133 1461631	302350 2201157	515270	761660	5.00 175	25.0 200	50.0 250	75.0	100

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

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1 Analy Batch No.: 295392

SDG No.: _____

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/18/2019 15:43 Calibration End Date: 10/18/2019 18:47 Calibration ID: 41783

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			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
Allyl chloride	FB	Ave	7460 249009	35695 312635	59101 478344	120441	166718	5.00 175	25.0 200	50.0 250	75.0	100
Methyl acetate	FB	Ave	21720 692252	104034 792998	188704 1130150	300004	421710	10.0 350	50.0 400	100 500	150	200
Methylene Chloride	FB	Lin2	23973 481167	88522 581522	139180 821296	225378	318354	5.00 175	25.0 200	50.0 250	75.0	100
tert-Butyl alcohol	TBAd 9	Ave	8227 339169	46053 395091	82861 577892	138255	211546	50.0 1750	250 2000	500 2500	750	1000
Acrylonitrile	FB	Ave	57887 1708565	260443 1992878	497335 2753254	746781	1069868	50.0 1750	250 2000	500 2500	750	1000
trans-1,2-Dichloroethene	FB	Ave	17219 483536	87408 599243	138728 858475	224056	326518	5.00 175	25.0 200	50.0 250	75.0	100
Methyl tert-butyl ether	FB	Ave	34440 1153092	165784 1335348	321786 1918775	477945	703318	5.00 175	25.0 200	50.0 250	75.0	100
Hexane	FB	Ave	29443 867750	142056 1036902	237306 1505931	401978	570409	5.00 175	25.0 200	50.0 250	75.0	100
1,1-Dichloroethane	FB	Ave	31431 882317	138880 1038491	244157 1482711	404164	563425	5.00 175	25.0 200	50.0 250	75.0	100
Vinyl acetate	FB	Ave	22776 800345	128131 965587	201805 1277482	328173	447686	5.00 175	25.0 200	50.0 250	75.0	100
2,2-Dichloropropane	FB	Ave	4293 107767	16430 120613	24948 184257	47059	63869	5.00 175	25.0 200	50.0 250	75.0	100
cis-1,2-Dichloroethene	FB	Ave	18013 543293	77250 628953	149857 889023	241568	339965	5.00 175	25.0 200	50.0 250	75.0	100
2-Butanone (MEK)	FB	Ave	37310 509126	102136 577795	153280 723401	222359	286541	25.0 350	50.0 400	100 500	150	200
Bromochloromethane	FB	Ave	8576 243705	37242 292430	67394 412942	106272	143576	5.00 175	25.0 200	50.0 250	75.0	100
Tetrahydrofuran	FB	Lin2	11657 247455	37070 304816	72092 413638	102813	141786	10.0 350	50.0 400	100 500	150	200
Chloroform	FB	Ave	37540 889111	146729 1021655	255065 1438468	395570	565653	5.00 175	25.0 200	50.0 250	75.0	100
1,1,1-Trichloroethane	FB	Ave	22485 806565	122203 939082	213095 1369807	360286	517635	5.00 175	25.0 200	50.0 250	75.0	100
Cyclohexane	FB	Ave	34443 1060030	170832 1247121	285298 1829902	489868	682642	5.00 175	25.0 200	50.0 250	75.0	100
Carbon tetrachloride	FB	Ave	20055 680595	104083 820492	175589 1170241	291231	428605	5.00 175	25.0 200	50.0 250	75.0	100
1,1-Dichloropropene	FB	Ave	23450 693597	113777 823238	198864 1198417	327817	449467	5.00 175	25.0 200	50.0 250	75.0	100
Isobutyl alcohol	FB	Ave	7397 285957	38996 346384	71965 488046	111038	179313	125 4375	625 5000	1250 6250	1875	2500

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

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1 Analy Batch No.: 295392

SDG No.: _____

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/18/2019 15:43 Calibration End Date: 10/18/2019 18:47 Calibration ID: 41783

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			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
Benzene	FB	Ave	67480 1758649	316211 2043213	508418 2893400	817089	1166707	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dichloroethane	FB	Ave	31157 832524	133126 966297	230372 1340884	359947	516267	5.00 175	25.0 200	50.0 250	75.0	100
n-Heptane	FB	Ave	30774 846274	134925 1004649	232673 1448120	388638	541326	5.00 175	25.0 200	50.0 250	75.0	100
Trichloroethene	FB	Ave	21157 553459	89656 650073	151333 958003	260402	349285	5.00 175	25.0 200	50.0 250	75.0	100
Methylcyclohexane	FB	Ave	30330 952974	150129 1138243	258401 1597798	436475	631360	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dichloropropane	FB	Ave	15634 427673	69700 514039	116947 757565	197997	271054	5.00 175	25.0 200	50.0 250	75.0	100
1,4-Dioxane	FB	Qua	3826 70292	8776 86571	18405 126477	32249	38680	100 3500	500 4000	1000 5000	1500	2000
Dibromomethane	FB	Ave	9449 256465	36806 300127	77060 456190	113545	168867	5.00 175	25.0 200	50.0 250	75.0	100
Bromodichloromethane	FB	Ave	15496 582751	86307 691654	150764 1010793	249608	361688	5.00 175	25.0 200	50.0 250	75.0	100
cis-1,3-Dichloropropene	FB	Ave	14398 631972	79485 755498	147534 1105432	265992	383076	5.00 175	25.0 200	50.0 250	75.0	100
4-Methyl-2-pentanone (MIBK)	CBNZ d5	Ave	49818 842393	124911 934002	212432 1265880	335440	483898	25.0 350	50.0 400	100 500	150	200
Toluene	CBNZ d5	Ave	68028 1950594	326793 2304307	568297 3150744	924284	1290061	5.00 175	25.0 200	50.0 250	75.0	100
trans-1,3-Dichloropropene	CBNZ d5	Lin2	12386 598166	67769 698161	148749 1011372	233058	346539	5.00 175	25.0 200	50.0 250	75.0	100
Ethyl methacrylate	CBNZ d5	Ave	11520 519800	71263 616275	139135 896571	207588	322148	5.00 175	25.0 200	50.0 250	75.0	100
1,1,2-Trichloroethane	CBNZ d5	Ave	12198 371940	57821 445787	99554 643117	159396	241056	5.00 175	25.0 200	50.0 250	75.0	100
Tetrachloroethene	CBNZ d5	Ave	13852 422495	65751 499543	114367 716733	193051	268636	5.00 175	25.0 200	50.0 250	75.0	100
1,3-Dichloropropane	CBNZ d5	Ave	21905 633071	103442 766691	180144 1089531	273352	416935	5.00 175	25.0 200	50.0 250	75.0	100
2-Hexanone	CBNZ d5	Ave	41485 714675	105841 776331	175518 931192	281696	393133	25.0 350	50.0 400	100 500	150	200
Dibromochloromethane	CBNZ d5	Ave	11222 405168	48690 460665	90512 692786	156977	226833	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dibromoethane (EDB)	CBNZ d5	Ave	11948 388678	54280 459713	103437 669445	167550	243221	5.00 175	25.0 200	50.0 250	75.0	100
Chlorobenzene	CBNZ d5	Ave	42916 1301026	228335 1536493	372935 2162707	592649	859970	5.00 175	25.0 200	50.0 250	75.0	100

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

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1 Analy Batch No.: 295392

SDG No.: _____

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/18/2019 15:43 Calibration End Date: 10/18/2019 18:47 Calibration ID: 41783

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	13641 449253	64870 516909	106285 771538	190168	273113	5.00 175	25.0 200	50.0 250	75.0	100
Ethylbenzene	CBNZ d5	Ave	25545 776087	120820 932194	212467 1333346	357928	495415	5.00 175	25.0 200	50.0 250	75.0	100
m-Xylene & p-Xylene	CBNZ d5	Ave	27892 1008171	147871 1154701	256508 1657816	426523	633528	5.00 175	25.0 200	50.0 250	75.0	100
o-Xylene	CBNZ d5	Ave	30266 907027	147019 1088974	251554 1508704	413511	591730	5.00 175	25.0 200	50.0 250	75.0	100
Styrene	CBNZ d5	Ave	43701 1483236	238366 1733574	408954 2437483	663824	934145	5.00 175	25.0 200	50.0 250	75.0	100
Bromoform	CBNZ d5	Ave	5354 196334	28628 238036	46008 376323	78756	118994	5.00 175	25.0 200	50.0 250	75.0	100
Isopropylbenzene	CBNZ d5	Ave	76556 2392465	411723 2751304	698262 3817218	1117621	1562124	5.00 175	25.0 200	50.0 250	75.0	100
Bromobenzene	DCBd 4	Ave	19050 524204	76216 624423	146667 877436	223139	332435	5.00 175	25.0 200	50.0 250	75.0	100
1,1,2,2-Tetrachloroethane	CBNZ d5	Ave	13044 407962	58803 481090	103639 698459	166170	254566	5.00 175	25.0 200	50.0 250	75.0	100
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	3553 193094	24350 234016	41700 329138	71074	106571	5.00 175	25.0 200	50.0 250	75.0	100
1,2,3-Trichloropropane	DCBd 4	Ave	5637 181556	27261 213021	50464 306093	76646	104543	5.00 175	25.0 200	50.0 250	75.0	100
N-Propylbenzene	DCBd 4	Ave	19665 737436	115147 859139	198886 1239741	342049	475332	5.00 175	25.0 200	50.0 250	75.0	100
2-Chlorotoluene	DCBd 4	Ave	15973 575478	93485 687006	162457 993196	263284	363547	5.00 175	25.0 200	50.0 250	75.0	100
1,3,5-Trimethylbenzene	DCBd 4	Ave	66493 2092704	362329 2392282	591676 3299791	967651	1350221	5.00 175	25.0 200	50.0 250	75.0	100
4-Chlorotoluene	DCBd 4	Ave	17989 613022	103504 718106	169075 1018561	252752	377541	5.00 175	25.0 200	50.0 250	75.0	100
tert-Butylbenzene	DCBd 4	Ave	62629 1837630	292224 2109938	510871 2940771	838722	1179528	5.00 175	25.0 200	50.0 250	75.0	100
1,2,4-Trimethylbenzene	DCBd 4	Ave	64560 2058065	330832 2404504	606964 3298430	965964	1329123	5.00 175	25.0 200	50.0 250	75.0	100
sec-Butylbenzene	DCBd 4	Ave	79200 2546386	427097 2976548	735949 3967745	1213698	1689295	5.00 175	25.0 200	50.0 250	75.0	100
1,3-Dichlorobenzene	DCBd 4	Ave	32161 979011	158963 1148026	281002 1617235	441862	620001	5.00 175	25.0 200	50.0 250	75.0	100
4-Isopropyltoluene	DCBd 4	Ave	69806 2228754	368019 2598170	632360 3554391	1054964	1461259	5.00 175	25.0 200	50.0 250	75.0	100
1,4-Dichlorobenzene	DCBd 4	Ave	32913 976387	147602 1153408	262231 1660672	452016	625938	5.00 175	25.0 200	50.0 250	75.0	100

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

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1 Analy Batch No.: 295392

SDG No.: _____

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/18/2019 15:43 Calibration End Date: 10/18/2019 18:47 Calibration ID: 41783

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			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
n-Butylbenzene	DCBd 4	Ave	55810 1918550	297534 2243550	525363 3095957	884909	1270720	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dichlorobenzene	DCBd 4	Ave	30460 901486	137798 1053289	245233 1483003	393919	571001	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	1559 66225	7808 78633	15668 117227	26965	39810	5.00 175	25.0 200	50.0 250	75.0	100
1,2,4-Trichlorobenzene	DCBd 4	Ave	13400 462304	60014 560173	118739 787245	187924	290263	5.00 175	25.0 200	50.0 250	75.0	100
Hexachlorobutadiene	DCBd 4	Ave	9926 267779	43403 320584	71651 471236	116416	165684	5.00 175	25.0 200	50.0 250	75.0	100
Naphthalene	DCBd 4	Ave	28197 1036101	119367 1242767	235529 1771901	406921	632522	5.00 175	25.0 200	50.0 250	75.0	100
1,2,3-Trichlorobenzene	DCBd 4	Ave	10403 376943	42232 456739	90627 618255	155056	224716	5.00 175	25.0 200	50.0 250	75.0	100
Dibromofluoromethane (Surr)	FB	Ave	15364 412976	65075 504568	120446 648543	186247	242644	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dichloroethane-d4 (Surr)	FB	Ave	22186 645002	105631 759339	182870 962231	290625	375462	5.00 175	25.0 200	50.0 250	75.0	100
Toluene-d8 (Surr)	CBNZ d5	Ave	57907 1596337	256305 1886619	497127 2392682	735915	995725	5.00 175	25.0 200	50.0 250	75.0	100
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	20840 683547	106981 819325	208395 1068497	290528	413033	5.00 175	25.0 200	50.0 250	75.0	100

Curve Type Legend:

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

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

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1 Analy Batch No.: 295392

SDG No.: _____

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/18/2019 15:43 Calibration End Date: 10/18/2019 18:47 Calibration ID: 41783

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-295392/4	6101810.D
Level 2	IC 180-295392/5	6101811.D
Level 3	ICIS 180-295392/6	6101812.D
Level 4	IC 180-295392/7	6101813.D
Level 5	IC 180-295392/8	6101814.D
Level 6	IC 180-295392/9	6101815.D
Level 7	IC 180-295392/10	6101816.D
Level 8	IC 180-295392/11	6101817.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #					LVL 7	LVL 8				
Dichlorodifluoromethane	22.2	-3.6	-13.6	3.1	1.7	-3.7	50	30	30	30	30	30
	-5.1	-1.0					30	30				
Chloromethane	1.9	-0.2	-10.9	-0.9	3.6	0.3	50	30	30	30	30	30
	1.0	5.1					30	30				
Vinyl chloride	3.9	-1.0	-13.0	2.6	3.6	-3.7	50	30	30	30	30	30
	1.8	5.9					30	30				
1,3-Butadiene	16.2	1.7	-10.9	0.8	-0.7	-4.7	50	30	30	30	30	30
	-3.6	1.2					30	30				
Bromomethane	19.4	1.0	-11.8	2.2	4.3	-7.5	50	30	30	30	30	30
	-3.0	-4.6					30	30				
Chloroethane	0.5	0.9	-10.6	4.6	1.3	-1.4	50	30	30	30	30	30
	1.9	3.0					30	30				
Dichlorofluoromethane	8.2	7.4	-12.5	3.2	4.7	-4.8	50	30	30	30	30	30
	-4.0	-2.1					30	30				
Trichlorofluoromethane	16.1	4.4	-12.0	-2.1	3.4	-3.8	50	30	30	30	30	30
	-4.8	-1.1					30	30				
Ethyl ether	0.4	4.0	-10.0	0.6	1.5	1.7	50	30	30	30	30	30
	0.3	1.5					30	30				
Acrolein	-0.6	-2.8	-6.2	6.4	-5.6	7.2	50	30	30	30	30	30
	0.7	0.9					30	30				
1,1-Dichloroethene	-5.2	4.3	-11.3	2.2	1.6	-0.5	50	30	30	30	30	30
	3.4	5.6					30	30				
1,1,2-Trichloro-1,2,2-trifluoroethane	11.3	-1.8	-5.7	-0.5	3.2	-4.0	50	30	30	30	30	30
	-2.2	-0.3					30	30				
Acetone	-3.5	25.5	-3.1	-5.5	-9.7	-3.7	50	30	30	30	30	30
	++++	++++										
Iodomethane	11.5	-7.6	-0.7	-2.5	4.7	-6.8	50	30	30	30	30	30
	-0.6	1.9					30	30				
Carbon disulfide	-14.5	-3.3	-13.2	0.1	8.7	0.4	50	30	30	30	30	30
	6.5	15.2					30	30				

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

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1 Analy Batch No.: 295392

SDG No.: _____

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/18/2019 15:43 Calibration End Date: 10/18/2019 18:47 Calibration ID: 41783

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #					LVL 7	LVL 8				
Allyl chloride	-4.3	-11.5	-21.7	8.0	9.8	-1.0	50	30	30	30	30	30
	5.1	15.6					30	30				
Methyl acetate	3.7	-4.0	-6.9	0.2	3.5	2.5	50	30	30	30	30	30
	-0.7	1.7					30	30				
Methylene Chloride	0.2	2.2	-10.0	1.2	6.2	-2.1	50	30	30	30	30	30
	0.3	2.1					30	30				
tert-Butyl alcohol	-5.4	-15.9	-15.5	2.3	12.4	-4.8	50	30	30	30	30	30
	2.9	24.0					30	30				
Acrylonitrile	9.2	-5.0	-3.0	-1.5	3.7	0.0	50	30	30	30	30	30
	-1.4	-2.1					30	30				
trans-1,2-Dichloroethene	7.8	5.8	-10.2	-1.9	5.0	-6.1	50	30	30	30	30	30
	-1.6	1.3					30	30				
Methyl tert-butyl ether	-0.2	-7.2	-3.7	-3.2	4.7	3.6	50	30	30	30	30	30
	1.4	4.7					30	30				
Hexane	6.4	-0.8	-11.4	1.6	5.9	-2.7	50	30	30	30	30	30
	-1.7	2.6					30	30				
1,1-Dichloroethane	12.6	-3.8	-9.6	1.3	3.7	-1.9	50	30	30	30	30	30
	-2.4	0.1					30	30				
Vinyl acetate	-3.4	5.1	-11.5	-2.6	-2.4	5.3	50	30	30	30	30	30
	7.4	2.1					30	30				
2,2-Dichloropropane	29.1	-4.5	-22.4	-1.0	-1.3	0.5	50	30	30	30	30	30
	-4.9	4.4					30	30				
cis-1,2-Dichloroethene	8.5	-10.1	-6.8	1.7	5.2	1.4	50	30	30	30	30	30
	-0.7	0.9					30	30				
2-Butanone (MEK)	-4.7	26.0	1.1	-0.8	-6.0	0.8	50	30	30	30	30	30
	-3.3	-13.0					30	30				
Bromochloromethane	13.3	-4.9	-8.0	-1.8	-2.5	-0.1	50	30	30	30	30	30
	1.3	2.8					30	30				
Tetrahydrofuran	2.8	-12.7	-2.9	-4.6	-2.3	4.3	50	30	30	30	30	30
	8.9	6.5					30	30				
Chloroform	30.3	-1.6	-8.5	-4.0	0.9	-4.3	50	30	30	30	30	30
	-7.0	-5.9					30	30				
1,1,1-Trichloroethane	-7.9	-3.3	-9.8	3.2	8.9	2.4	50	30	30	30	30	30
	0.8	5.7					30	30				
Cyclohexane	3.5	-0.8	-11.4	2.9	5.3	-1.3	50	30	30	30	30	30
	-1.8	3.6					30	30				
Carbon tetrachloride	-3.0	-2.7	-12.2	-1.5	6.5	2.1	50	30	30	30	30	30
	4.1	6.7					30	30				
1,1-Dichloropropene	5.6	-1.0	-7.5	3.2	4.0	-3.2	50	30	30	30	30	30
	-2.8	1.7					30	30				
Isobutyl alcohol	-11.0	-9.3	-10.5	-6.6	10.8	6.7	50	30	30	30	30	30
	9.3	10.6					30	30				

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

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1 Analy Batch No.: 295392

SDG No.: _____

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/18/2019 15:43 Calibration End Date: 10/18/2019 18:47 Calibration ID: 41783

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #					LVL 7	LVL 8				
Benzene	17.1 -7.0	6.1 -5.3	-8.8	-0.8	4.1	-5.3	50 30	30 30	30	30	30	30
1,2-Dichloroethane	19.4 -2.9	-1.4 -3.2	-8.8	-3.6	1.6	-1.1	50 30	30 30	30	30	30	30
n-Heptane	14.1 -2.3	-3.3 1.2	-10.8	0.8	3.1	-2.7	50 30	30 30	30	30	30	30
Trichloroethene	18.8 -4.3	-2.8 1.3	-12.2	2.2	0.7	-3.7	50 30	30 30	30	30	30	30
Methylcyclohexane	1.7 0.1	-2.7 1.0	-10.4	2.4	8.8	-0.9	50 30	30 30	30	30	30	30
1,2-Dichloropropane	13.7 -1.9	-2.0 3.8	-12.1	0.7	1.3	-3.5	50 30	30 30	30	30	30	30
1,4-Dioxane	46.8 0.2	-19.4 0.2	-4.6	11.4	-2.9	-1.1	50 30	30 30	30	30	30	30
Dibromomethane	15.3 -4.0	-13.2 4.9	-2.8	-3.1	5.9	-2.9	50 30	30 30	30	30	30	30
Bromodichloromethane	-10.8 4.3	-4.0 9.6	-10.4	0.4	6.9	4.0	50 30	30 30	30	30	30	30
cis-1,3-Dichloropropene	-19.7 10.4	-14.4 16.1	-15.0	3.7	9.7	9.2	50 30	30 30	30	30	30	30
4-Methyl-2-pentanone (MIBK)	-18.6 -1.0	6.1 4.4	-8.0	7.6	1.2	8.4	50 30	30 30	30	30	30	30
Toluene	4.8 -8.0	4.6 -2.1	-7.2	11.8	1.7	-5.4	50 30	30 30	30	30	30	30
trans-1,3-Dichloropropene	3.4 0.7	-15.3 13.2	-9.6	3.2	-0.5	4.8	50 30	30 30	30	30	30	30
Ethyl methacrylate	-25.9 2.9	-4.7 16.4	-5.1	4.9	6.1	5.3	50 30	30 30	30	30	30	30
1,1,2-Trichloroethane	1.8 -3.5	0.3 8.3	-11.9	4.5	2.9	-2.3	50 30	30 30	30	30	30	30
Tetrachloroethene	1.4 -5.2	0.1 5.9	-11.2	11.0	0.7	-2.6	50 30	30 30	30	30	30	30
1,3-Dichloropropane	4.9 -4.8	2.9 5.2	-8.6	2.8	2.2	-4.6	50 30	30 30	30	30	30	30
2-Hexanone	-17.5 0.1	9.4 -6.6	-7.5	10.0	0.1	11.9	50 30	30 30	30	30	30	30
Dibromochloromethane	-4.0 2.2	-13.5 19.5	-18.0	5.4	-0.7	9.1	50 30	30 30	30	30	30	30
1,2-Dibromoethane (EDB)	-1.9 -2.1	-7.4 10.9	-10.0	8.0	2.2	0.4	50 30	30 30	30	30	30	30
Chlorobenzene	-0.4 -7.6	10.1 1.2	-8.3	8.0	2.1	-5.0	50 30	30 30	30	30	30	30

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

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1 Analy Batch No.: 295392

SDG No.: _____

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/18/2019 15:43 Calibration End Date: 10/18/2019 18:47 Calibration ID: 41783

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #					LVL 7	LVL 8				
1,1,1,2-Tetrachloroethane	-1.2	-2.3	-18.4	8.2	1.3	2.5	50	30	30	30	30	30
	-2.9	12.8					30	30				
Ethylbenzene	1.1	-0.6	-10.9	11.2	0.3	-3.3	50	30	30	30	30	30
	-4.3	6.5					30	30				
m-Xylene & p-Xylene	-9.6	-0.4	-11.9	8.5	5.1	2.9	50	30	30	30	30	30
	-3.0	8.4					30	30				
o-Xylene	2.0	2.9	-10.2	9.4	2.0	-3.8	50	30	30	30	30	30
	-4.9	2.5					30	30				
Styrene	-7.3	5.0	-8.1	10.5	1.3	-1.0	50	30	30	30	30	30
	-4.7	4.3					30	30				
Bromoform	-11.5	-1.7	-19.4	2.2	0.7	2.2	50	30	30	30	30	30
	2.0	25.5					30	30				
Isopropylbenzene	-2.4	9.1	-5.6	11.9	1.9	-4.0	50	30	30	30	30	30
	-9.0	-1.8					30	30				
Bromobenzene	28.4	-7.2	-4.7	0.1	-2.2	-8.4	50	30	30	30	30	30
	-7.8	1.9					30	30				
1,1,2,2-Tetrachloroethane	2.6	-3.9	-13.6	2.6	2.4	1.0	50	30	30	30	30	30
	-1.9	10.8					30	30				
trans-1,4-Dichloro-2-butene	-23.5	-5.3	-13.5	1.9	0.1	7.7	50	30	30	30	30	30
	10.4	22.1					30	30				
1,2,3-Trichloropropane	13.5	-0.8	-2.1	2.7	-8.1	-5.3	50	30	30	30	30	30
	-6.0	6.2					30	30				
N-Propylbenzene	-3.2	2.5	-5.6	12.1	2.2	-5.9	50	30	30	30	30	30
	-7.3	5.2					30	30				
2-Chlorotoluene	-1.0	4.8	-2.9	8.7	-1.6	-7.5	50	30	30	30	30	30
	-6.6	6.1					30	30				
1,3,5-Trimethylbenzene	11.8	10.1	-4.1	8.3	-0.9	-8.8	50	30	30	30	30	30
	-11.8	-4.4					30	30				
4-Chlorotoluene	6.2	10.4	-3.8	-0.6	-2.7	-6.2	50	30	30	30	30	30
	-7.0	3.6					30	30				
tert-Butylbenzene	20.3	1.4	-5.4	7.2	-1.1	-8.5	50	30	30	30	30	30
	-11.2	-2.7					30	30				
1,2,4-Trimethylbenzene	10.3	2.2	0.0	9.9	-0.8	-8.8	50	30	30	30	30	30
	-9.9	-2.9					30	30				
sec-Butylbenzene	9.0	6.2	-2.4	11.2	1.5	-9.2	50	30	30	30	30	30
	-10.2	-5.9					30	30				
1,3-Dichlorobenzene	15.4	3.1	-2.8	5.6	-2.8	-8.9	50	30	30	30	30	30
	-9.7	0.0					30	30				
4-Isopropyltoluene	10.1	4.9	-3.9	10.8	0.6	-8.9	50	30	30	30	30	30
	-10.2	-3.4					30	30				
1,4-Dichlorobenzene	18.9	-3.7	-8.7	8.7	-1.3	-8.6	50	30	30	30	30	30
	-8.7	3.4					30	30				

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

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1 Analy Batch No.: 295392

SDG No.: _____

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/18/2019 15:43 Calibration End Date: 10/18/2019 18:47 Calibration ID: 41783

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #					LVL 7	LVL 8				
n-Butylbenzene	4.6	0.8	-5.1	10.4	4.0	-6.8	50	30	30	30	30	30
	-7.8	0.0					30	30				
1,2-Dichlorobenzene	20.5	-1.5	-6.5	3.8	-1.4	-7.5	50	30	30	30	30	30
	-8.6	1.1					30	30				
1,2-Dibromo-3-Chloropropane	-7.4	-16.2	-10.3	6.6	3.2	1.9	50	30	30	30	30	30
	2.4	19.9					30	30				
1,2,4-Trichlorobenzene	8.6	-12.1	-7.2	1.4	2.7	-2.9	50	30	30	30	30	30
	-0.5	10.0					30	30				
Hexachlorobutadiene	28.6	1.6	-10.5	0.4	-6.3	-10.1	50	30	30	30	30	30
	-8.9	5.2					30	30				
Naphthalene	6.5	-18.5	-14.2	2.3	4.3	1.4	50	30	30	30	30	30
	2.9	15.3					30	30				
1,2,3-Trichlorobenzene	7.6	-21.1	-9.6	6.8	1.5	1.1	50	30	30	30	30	30
	3.6	10.2					30	30				
Dibromofluoromethane (Surr)	18.0	-3.4	-4.4	0.0	-4.2	-1.6	50	30	30	30	30	30
	1.6	-6.1					30	30				
1,2-Dichloroethane-d4 (Surr)	11.5	2.6	-5.0	2.1	-3.0	0.5	50	30	30	30	30	30
	0.1	-8.9					30	30				
Toluene-d8 (Surr)	10.3	1.4	0.4	10.1	-3.0	-4.3	50	30	30	30	30	30
	-6.8	-8.1					30	30				
4-Bromofluorobenzene (Surr)	-3.9	2.6	1.9	5.2	-2.5	-0.7	50	30	30	30	30	30
	-2.0	-0.6					30	30				

Eurofins TestAmerica, Pittsburgh
Target Compound Quantitation Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101810.D
 Lims ID: IC VSTD1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 18-Oct-2019 15:43:30 ALS Bottle#: 4 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-0029183-004
 Misc. Info.: ic vstd1
 Operator ID: 433269 Instrument ID: CHHP6
 Sublist: chrom-MSVOA_LL_CHHP6*sub121
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C_D ICAL
 Last Update: 19-Oct-2019 10:15:44 Calib Date: 18-Oct-2019 18:47:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101817.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX0306

First Level Reviewer: bowieh

Date: 18-Oct-2019 17:00:16

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.432	4.428	0.004	92	168079	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.413	7.403	0.010	98	554095	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.510	10.506	0.004	89	144377	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.852	12.854	-0.002	98	187959	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.677	6.685	-0.008	27	15364	5.00	5.90	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	7.066	7.050	0.016	52	22186	5.00	5.58	M
\$ 7 Toluene-d8 (Surr)	98	9.056	9.052	0.004	95	57907	5.00	5.51	
\$ 8 4-Bromofluorobenzene (Surr	95	11.684	11.686	-0.002	0	20840	5.00	4.81	
11 Dichlorodifluoromethane	85	1.664	1.666	-0.002	65	34307	5.00	6.11	
12 Chloromethane	50	1.871	1.885	-0.014	56	23865	5.00	5.10	
13 Vinyl chloride	62	1.999	1.995	0.004	53	20645	5.00	5.19	M
14 Butadiene	39	2.017	2.019	-0.002	91	26291	5.00	5.81	
15 Bromomethane	94	2.358	2.336	0.022	45	10016	5.00	5.97	M
16 Chloroethane	64	2.498	2.482	0.016	52	14366	5.00	5.02	M
17 Dichlorofluoromethane	67	2.790	2.774	0.016	69	30057	5.00	5.41	M
18 Trichlorofluoromethane	101	2.790	2.798	-0.008	49	36809	5.00	5.80	
20 Ethyl ether	59	3.155	3.175	-0.020	73	12356	5.00	5.02	a
21 Acrolein	56	3.368	3.364	0.004	95	34900	100.0	99.4	
22 1,1-Dichloroethene	96	3.471	3.467	0.004	86	12570	5.00	4.74	
23 1,1,2-Trichloro-1,2,2-trif	101	3.550	3.540	0.010	53	18054	5.00	5.56	M
24 Acetone	43	3.587	3.583	0.004	87	37727	25.0	24.1	
25 Iodomethane	142	3.672	3.668	0.004	86	23931	5.00	5.57	
26 Carbon disulfide	76	3.751	3.747	0.004	94	30784	5.00	4.28	
29 3-Chloro-1-propene	76	4.092	4.076	0.016	81	7460	5.00	4.78	M
30 Methyl acetate	43	4.092	4.094	-0.002	87	21720	10.0	10.4	
31 Methylene Chloride	84	4.305	4.301	0.004	97	23973	5.00	5.01	a
32 2-Methyl-2-propanol	59	4.566	4.562	0.004	82	8227	50.0	47.3	
33 Acrylonitrile	53	4.676	4.678	-0.002	94	57887	50.0	54.6	
34 trans-1,2-Dichloroethene	96	4.700	4.696	0.004	84	17219	5.00	5.39	
35 Methyl tert-butyl ether	73	4.724	4.720	0.004	84	34440	5.00	4.99	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	5.114	5.122	-0.008	86	29443	5.00	5.32	
37 1,1-Dichloroethane	63	5.320	5.329	-0.009	91	31431	5.00	5.63	
38 Vinyl acetate	43	5.381	5.383	-0.002	95	22776	5.00	4.83	M
42 2,2-Dichloropropane	97	6.075	6.071	0.004	54	4293	5.00	6.46	
43 cis-1,2-Dichloroethene	96	6.093	6.083	0.010	80	18013	5.00	5.42	a
44 2-Butanone (MEK)	43	6.093	6.095	-0.002	80	37310	25.0	23.8	
48 Chlorobromomethane	128	6.349	6.357	-0.008	61	8576	5.00	5.67	
49 Tetrahydrofuran	42	6.385	6.375	0.010	0	11657	10.0	10.3	
50 Chloroform	83	6.501	6.509	-0.008	96	37540	5.00	6.52	
51 1,1,1-Trichloroethane	97	6.665	6.661	0.004	86	22485	5.00	4.60	M
52 Cyclohexane	56	6.732	6.728	0.004	92	34443	5.00	5.17	
53 Carbon tetrachloride	117	6.829	6.831	-0.002	74	20055	5.00	4.85	
54 1,1-Dichloropropene	75	6.854	6.844	0.010	89	23450	5.00	5.28	
55 Isobutyl alcohol	41	7.048	7.050	-0.002	38	7397	125.0	111.2	
56 Benzene	78	7.066	7.069	-0.003	97	67480	5.00	5.86	
57 1,2-Dichloroethane	62	7.139	7.136	0.003	96	31157	5.00	5.97	M
59 n-Heptane	43	7.413	7.415	-0.002	40	30774	5.00	5.71	
61 Trichloroethene	130	7.796	7.793	0.003	94	21157	5.00	5.94	M
63 Methylcyclohexane	83	8.022	8.024	-0.002	94	30330	5.00	5.09	
64 1,2-Dichloropropane	63	8.058	8.060	-0.002	57	15634	5.00	5.69	
67 Dibromomethane	93	8.168	8.145	0.023	58	9449	5.00	5.77	a
65 1,4-Dioxane	88	8.143	8.151	-0.008	9	3826	100.0	146.8	
68 Dichlorobromomethane	83	8.350	8.346	0.004	91	15496	5.00	4.46	
71 cis-1,3-Dichloropropene	75	8.800	8.790	0.010	84	14398	5.00	4.01	M
72 4-Methyl-2-pentanone (MIBK)	43	8.952	8.954	-0.002	94	49818	25.0	20.4	
73 Toluene	91	9.123	9.119	0.004	98	68028	5.00	5.24	
74 trans-1,3-Dichloropropene	75	9.372	9.368	0.004	51	12386	5.00	5.17	
75 Ethyl methacrylate	69	9.427	9.429	-0.002	93	11520	5.00	3.71	
76 1,1,2-Trichloroethane	97	9.567	9.557	0.010	92	12198	5.00	5.09	
77 Tetrachloroethene	164	9.634	9.630	0.004	90	13852	5.00	5.07	
78 1,3-Dichloropropane	76	9.725	9.721	0.004	92	21905	5.00	5.24	
79 2-Hexanone	43	9.786	9.782	0.004	97	41485	25.0	20.6	
81 Chlorodibromomethane	129	9.932	9.940	-0.008	55	11222	5.00	4.80	
82 Ethylene Dibromide	107	10.047	10.050	-0.003	83	11948	5.00	4.90	
84 Chlorobenzene	112	10.534	10.536	-0.002	88	42916	5.00	4.98	
86 1,1,1,2-Tetrachloroethane	131	10.631	10.627	0.004	41	13641	5.00	4.94	
87 Ethylbenzene	106	10.631	10.634	-0.003	98	25545	5.00	5.05	
88 m-Xylene & p-Xylene	106	10.759	10.767	-0.008	95	27892	5.00	4.52	
89 o-Xylene	106	11.148	11.151	-0.003	96	30266	5.00	5.10	
90 Styrene	104	11.173	11.169	0.004	96	43701	5.00	4.63	
91 Bromoform	173	11.349	11.357	-0.008	26	5354	5.00	4.42	
93 Isopropylbenzene	105	11.513	11.516	-0.003	96	76556	5.00	4.88	
95 Bromobenzene	156	11.830	11.832	-0.002	94	19050	5.00	6.42	
96 1,1,2,2-Tetrachloroethane	83	11.830	11.838	-0.008	60	13044	5.00	5.13	
97 trans-1,4-Dichloro-2-buten	53	11.878	11.875	0.003	56	3553	5.00	3.82	
98 1,2,3-Trichloropropane	110	11.891	11.887	0.004	34	5637	5.00	5.67	
99 N-Propylbenzene	120	11.933	11.929	0.004	99	19665	5.00	4.84	
100 2-Chlorotoluene	126	12.018	12.021	-0.003	93	15973	5.00	4.95	
102 1,3,5-Trimethylbenzene	105	12.116	12.118	-0.002	93	66493	5.00	5.59	
103 4-Chlorotoluene	126	12.152	12.148	0.004	97	17989	5.00	5.31	
104 tert-Butylbenzene	119	12.438	12.428	0.010	91	62629	5.00	6.01	
106 1,2,4-Trimethylbenzene	105	12.493	12.489	0.004	95	64560	5.00	5.52	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
108 sec-Butylbenzene	105	12.651	12.653	-0.002	96	79200	5.00	5.45	
109 1,3-Dichlorobenzene	146	12.767	12.775	-0.008	85	32161	5.00	5.77	M
110 4-Isopropyltoluene	119	12.803	12.811	-0.008	94	69806	5.00	5.50	
111 1,4-Dichlorobenzene	146	12.876	12.878	-0.002	91	32913	5.00	5.94	
116 n-Butylbenzene	91	13.217	13.219	-0.002	98	55810	5.00	5.23	
117 1,2-Dichlorobenzene	146	13.247	13.237	0.010	69	30460	5.00	6.03	
118 1,2-Dibromo-3-Chloropropan	75	14.032	14.028	0.004	1	1559	5.00	4.63	
122 1,2,4-Trichlorobenzene	180	14.853	14.849	0.004	88	13400	5.00	5.43	
123 Hexachlorobutadiene	225	14.987	14.989	-0.002	88	9926	5.00	6.43	
124 Naphthalene	128	15.115	15.117	-0.002	94	28197	5.00	5.32	
125 1,2,3-Trichlorobenzene	180	15.352	15.348	0.004	91	10403	5.00	5.38	
S 131 Xylenes, Total	106				0		10.0	9.62	
S 130 1,2-Dichloroethene, Total	96				0		10.0	10.8	
S 132 1,3-Dichloropropene, Total	1				0		10.0	9.18	
S 154 Total BTEX	1				0		25.0	25.8	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

VOACRPRI_00021	Amount Added: 4.00	Units: uL	
VOAVAPRI_00028	Amount Added: 0.20	Units: uL	
VOA8260VOAPRI_00376	Amount Added: 0.20	Units: uL	
VOA8260SURR_00100	Amount Added: 0.20	Units: uL	
voaWKetmix1st_00019	Amount Added: 0.80	Units: uL	
VOA8260INT_00100	Amount Added: 2.00	Units: uL	Run Reagent

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101810.D

Injection Date: 18-Oct-2019 15:43:30

Instrument ID: CHHP6

Operator ID: 433269

Lims ID: IC VSTD1

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

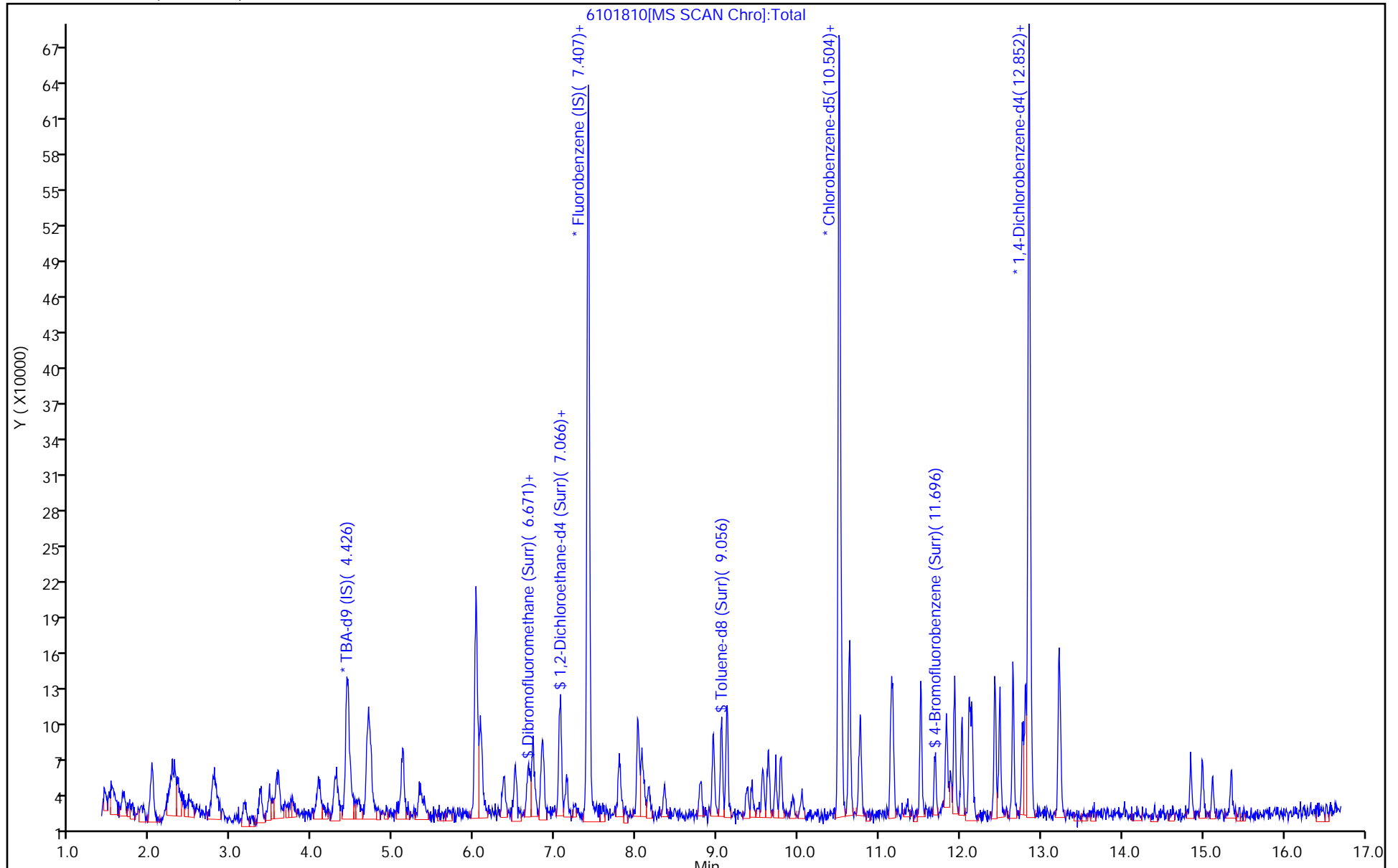
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C_D ICAL

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Pittsburgh

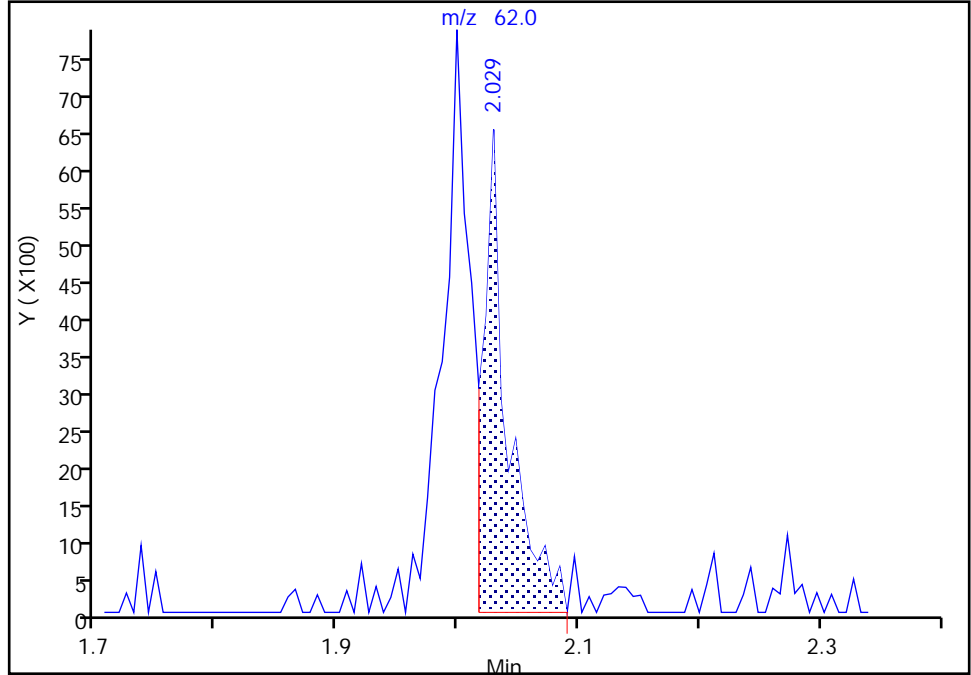
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Injection Date: 18-Oct-2019 15:43:30 Instrument ID: CHHP6
Lims ID: IC VSTD1
Client ID:
Operator ID: 433269 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

13 Vinyl chloride, CAS: 75-01-4

Signal: 1

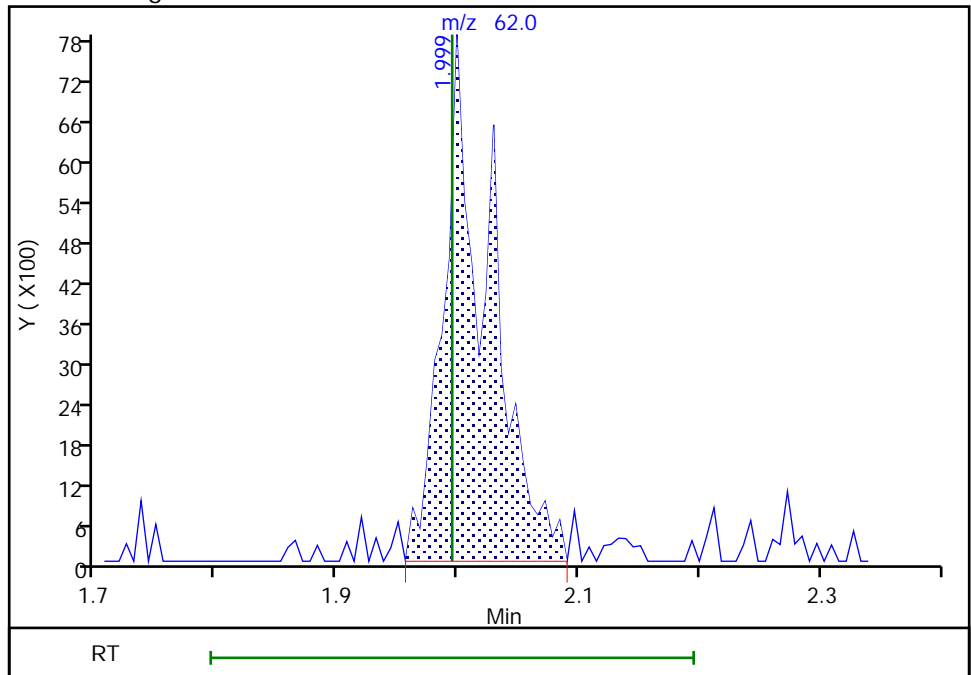
RT: 2.03
Area: 9246
Amount: 2.776621
Amount Units: ng

Processing Integration Results



RT: 2.00
Area: 20645
Amount: 5.193618
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 18-Oct-2019 17:39:42
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins TestAmerica, Pittsburgh

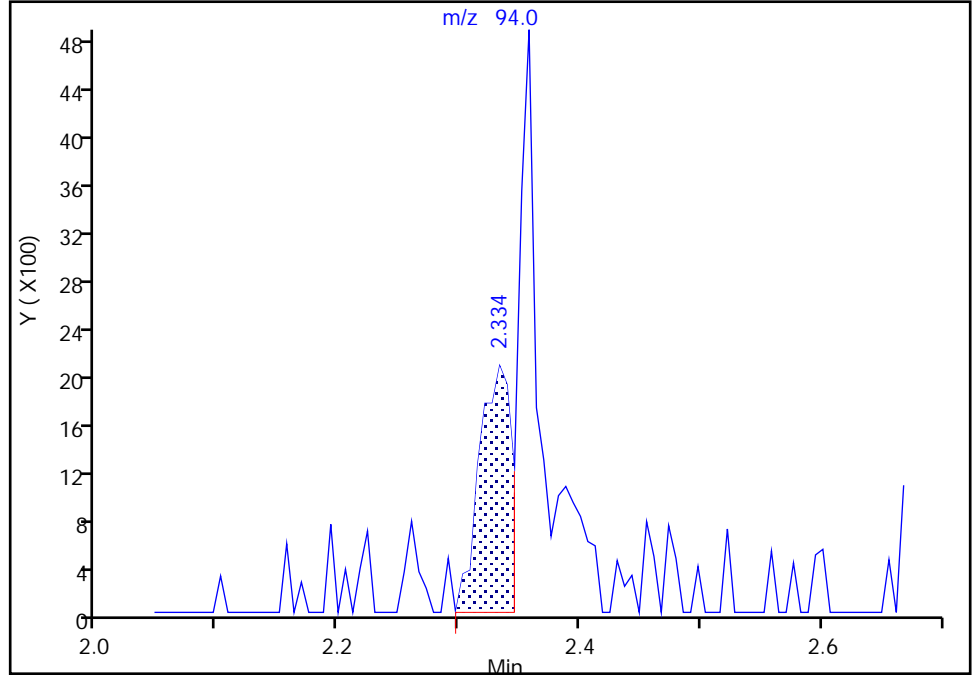
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Injection Date: 18-Oct-2019 15:43:30 Instrument ID: CHHP6
Lims ID: IC VSTD1
Client ID:
Operator ID: 433269 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

15 Bromomethane, CAS: 74-83-9

Signal: 1

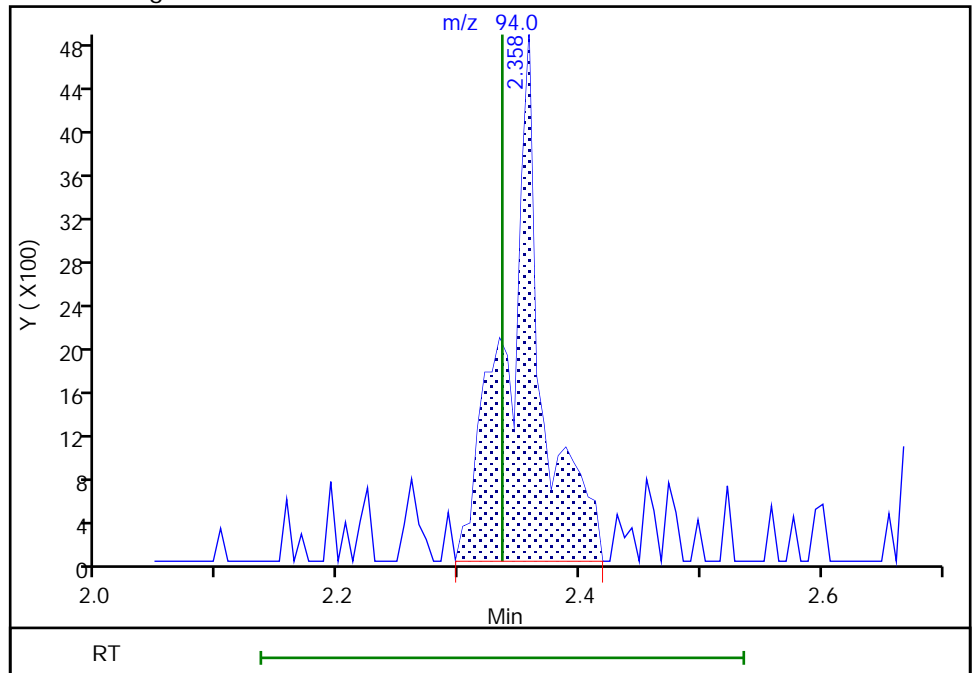
RT: 2.33
Area: 3846
Amount: 2.719610
Amount Units: ng

Processing Integration Results



RT: 2.36
Area: 10016
Amount: 5.970969
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 18-Oct-2019 17:39:37
Audit Action: Manually Integrated

Audit Reason: Poor chromatography
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Eurofins TestAmerica, Pittsburgh

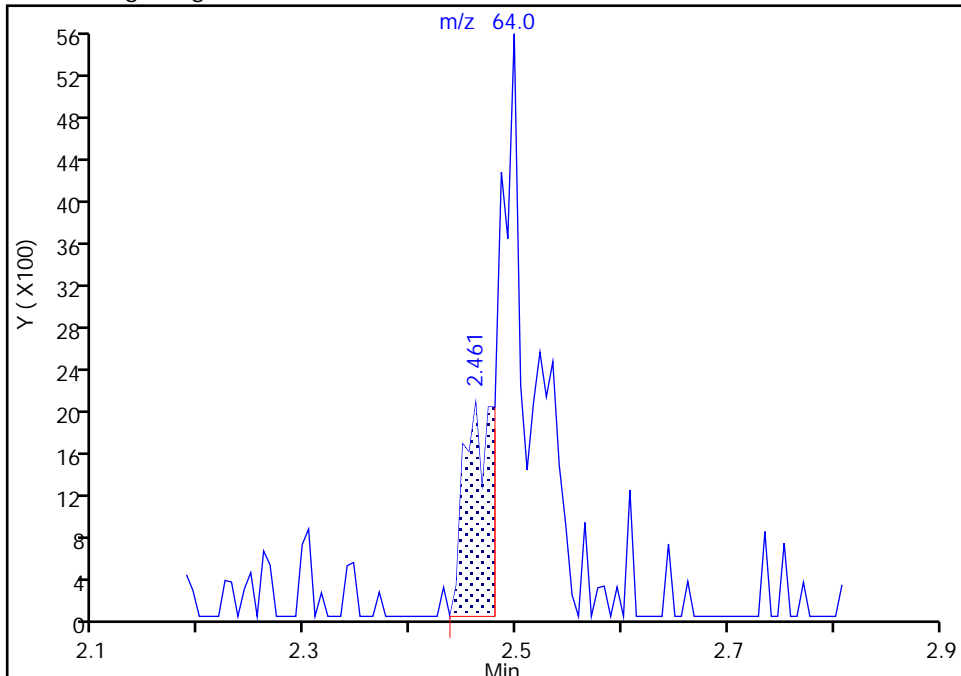
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Injection Date: 18-Oct-2019 15:43:30 Instrument ID: CHHP6
Lims ID: IC VSTD1
Client ID:
Operator ID: 433269 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

16 Chloroethane, CAS: 75-00-3

Signal: 1

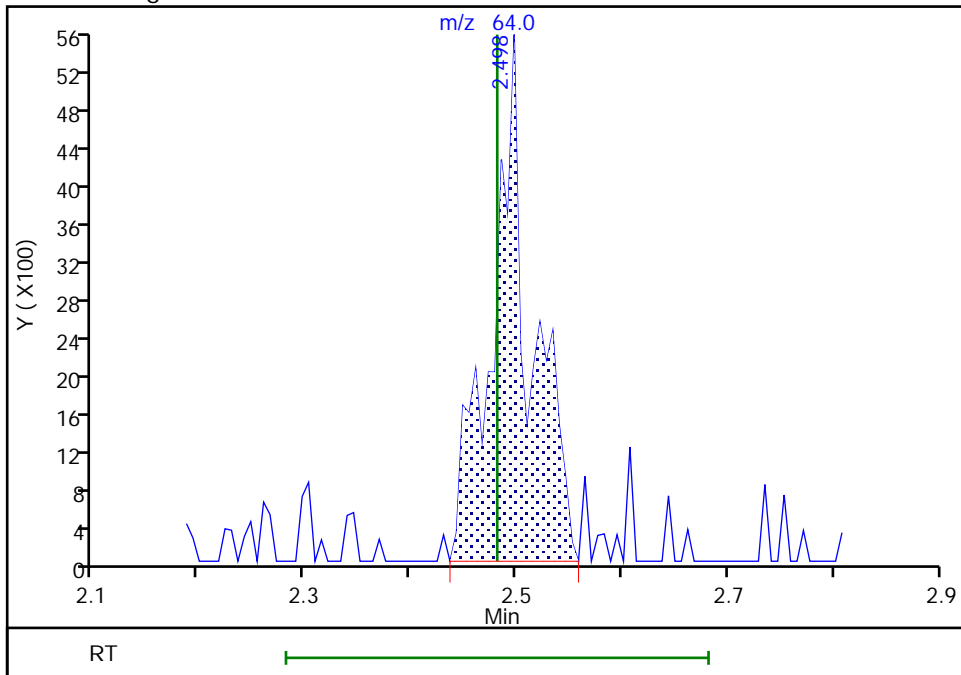
RT: 2.46
Area: 3915
Amount: 2.381869
Amount Units: ng

Processing Integration Results



RT: 2.50
Area: 14366
Amount: 5.022668
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 18-Oct-2019 17:39:30
Audit Action: Manually Integrated

Audit Reason: Poor chromatography
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Eurofins TestAmerica, Pittsburgh

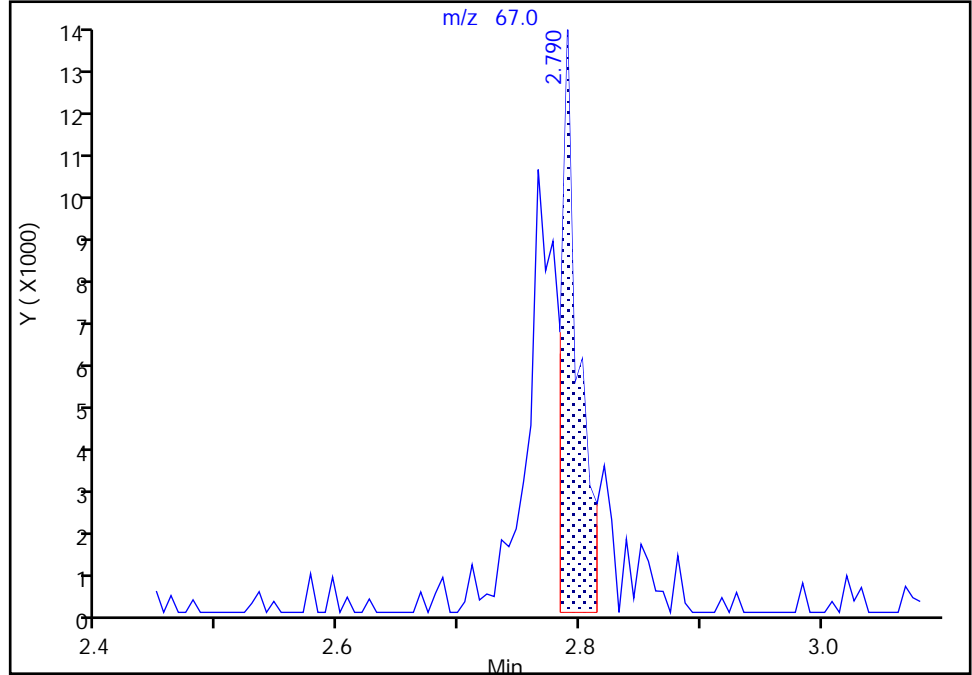
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Injection Date: 18-Oct-2019 15:43:30 Instrument ID: CHHP6
Lims ID: IC VSTD1
Client ID:
Operator ID: 433269 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

17 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

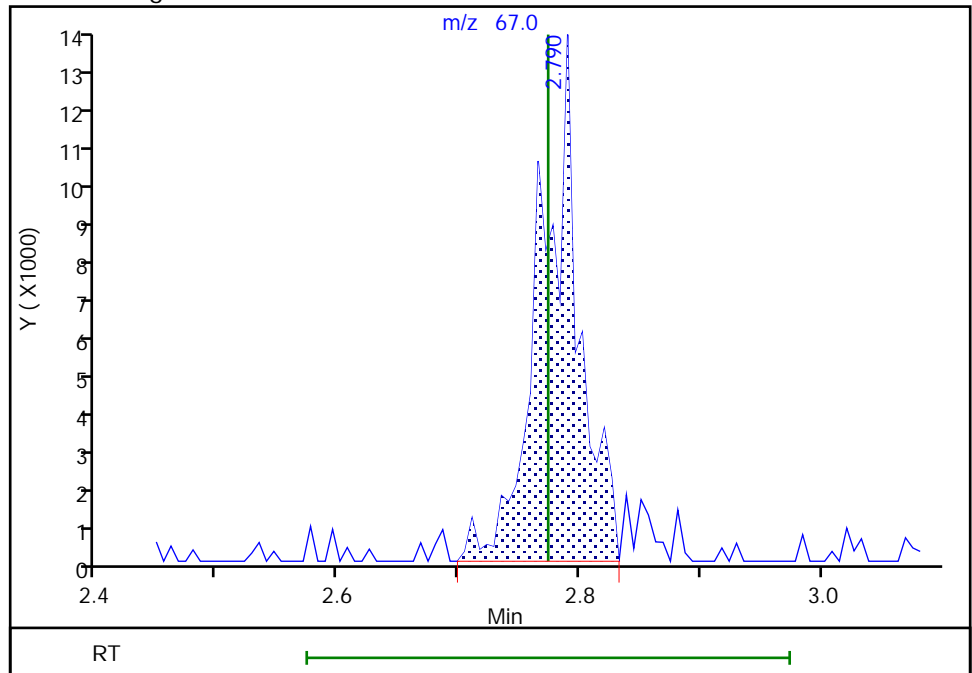
RT: 2.79
Area: 13109
Amount: 2.733264
Amount Units: ng

Processing Integration Results



RT: 2.79
Area: 30057
Amount: 5.409527
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 18-Oct-2019 17:39:23
Audit Action: Manually Integrated

Audit Reason: Poor chromatography
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Eurofins TestAmerica, Pittsburgh

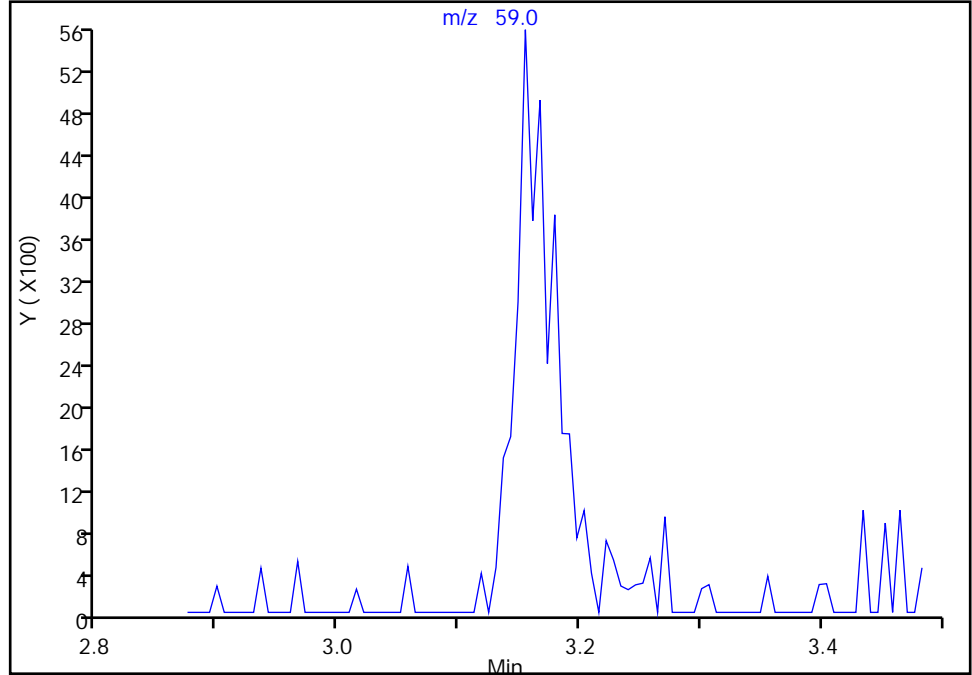
Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101810.D
Injection Date: 18-Oct-2019 15:43:30 Instrument ID: CHHP6
Lims ID: IC VSTD1
Client ID:
Operator ID: 433269 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

20 Ethyl ether, CAS: 60-29-7

Signal: 1

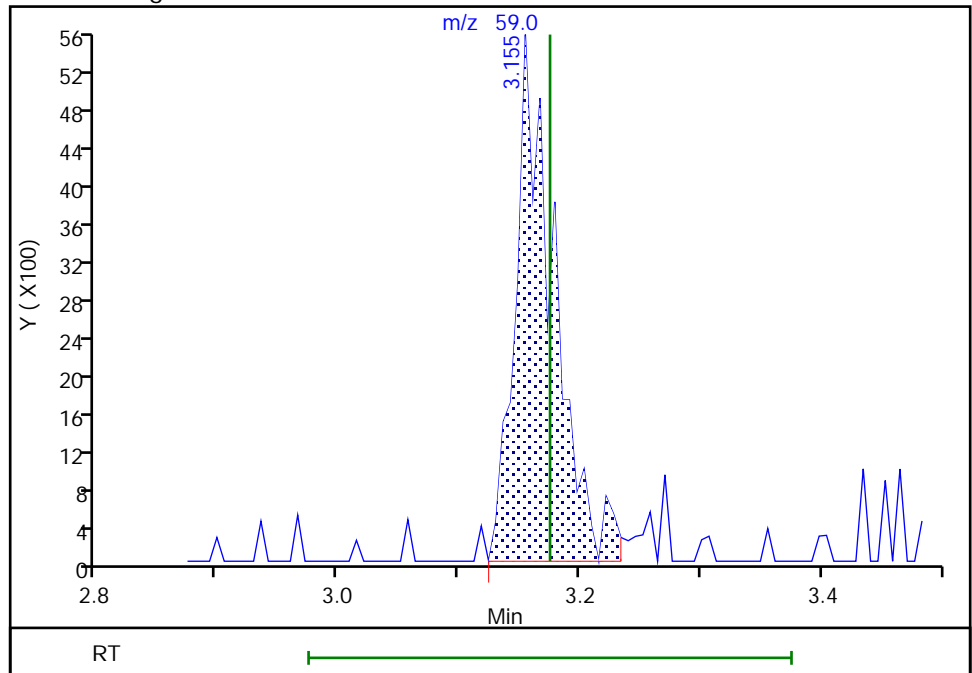
Not Detected
Expected RT: 3.18

Processing Integration Results



Manual Integration Results

RT: 3.15
Area: 12356
Amount: 5.017737
Amount Units: ng



Reviewer: bowieh, 18-Oct-2019 16:50:21
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Pittsburgh

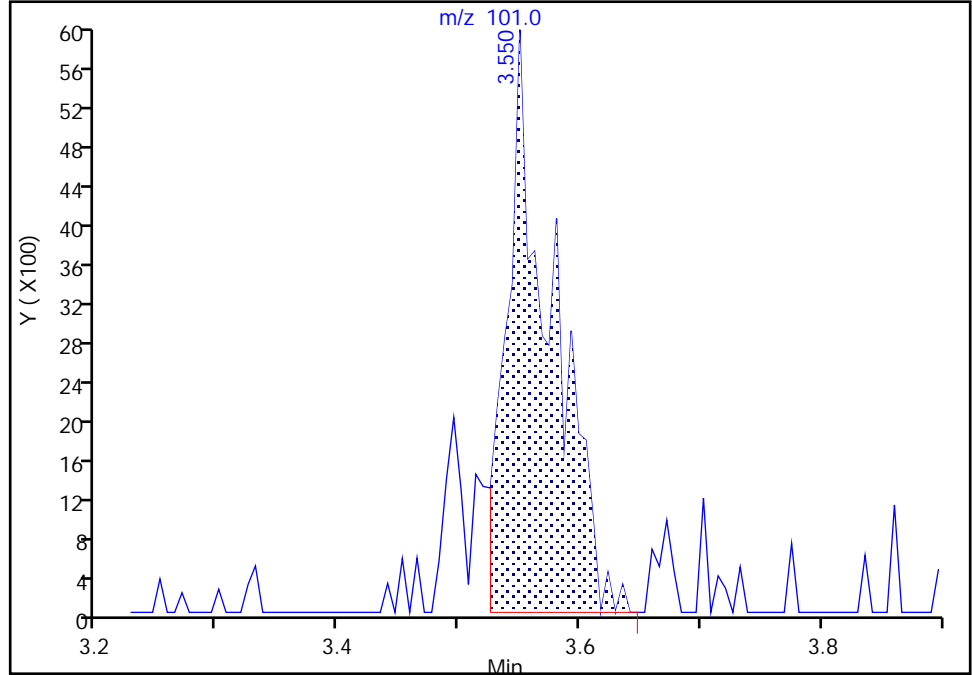
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Injection Date: 18-Oct-2019 15:43:30 Instrument ID: CHHP6
Lims ID: IC VSTD1
Client ID:
Operator ID: 433269 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

23 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

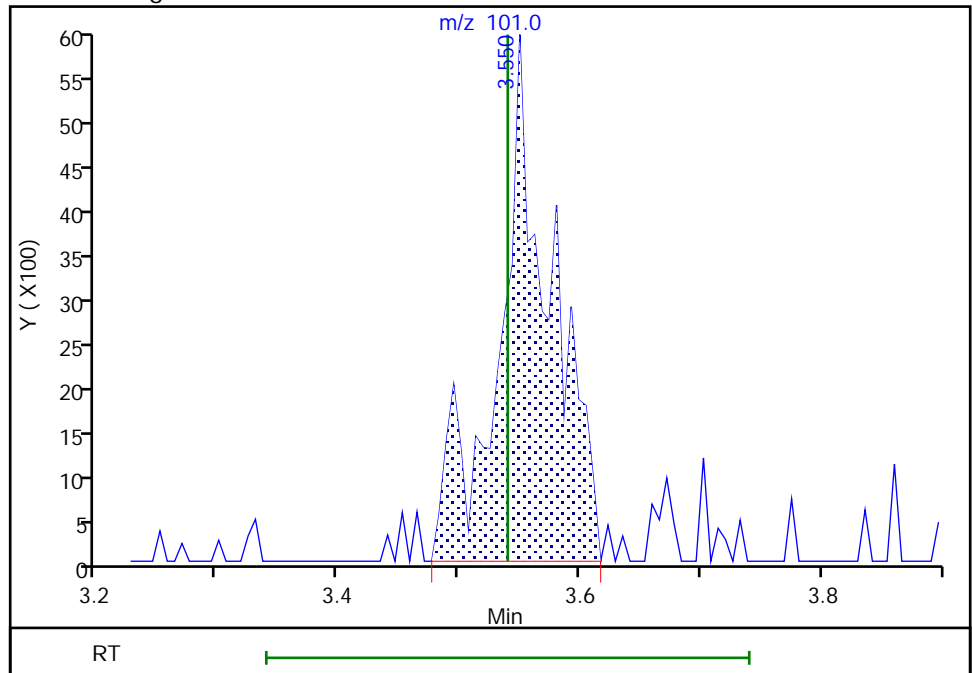
RT: 3.55
Area: 15343
Amount: 4.892670
Amount Units: ng

Processing Integration Results



RT: 3.55
Area: 18054
Amount: 5.564385
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 18-Oct-2019 17:39:16
Audit Action: Manually Integrated

Eurofins TestAmerica, Pittsburgh

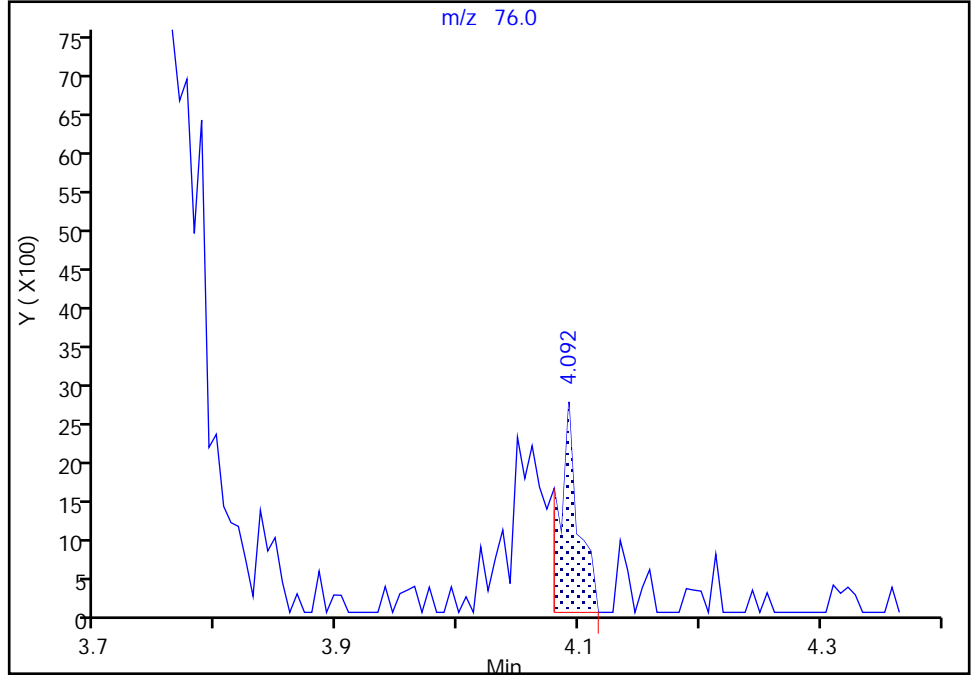
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Injection Date: 18-Oct-2019 15:43:30 Instrument ID: CHHP6
Lims ID: IC VSTD1
Client ID:
Operator ID: 433269 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

29 3-Chloro-1-propene, CAS: 107-05-1

Signal: 1

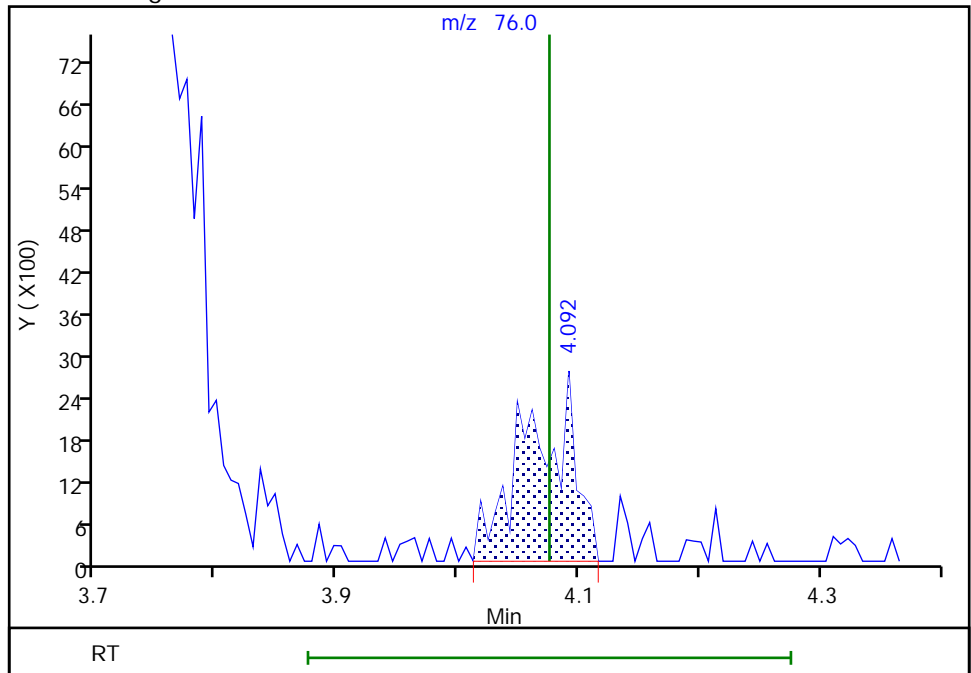
RT: 4.09
Area: 2940
Amount: 2.413251
Amount Units: ng

Processing Integration Results



RT: 4.09
Area: 7460
Amount: 4.783352
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 18-Oct-2019 17:39:08
Audit Action: Manually Integrated

Eurofins TestAmerica, Pittsburgh

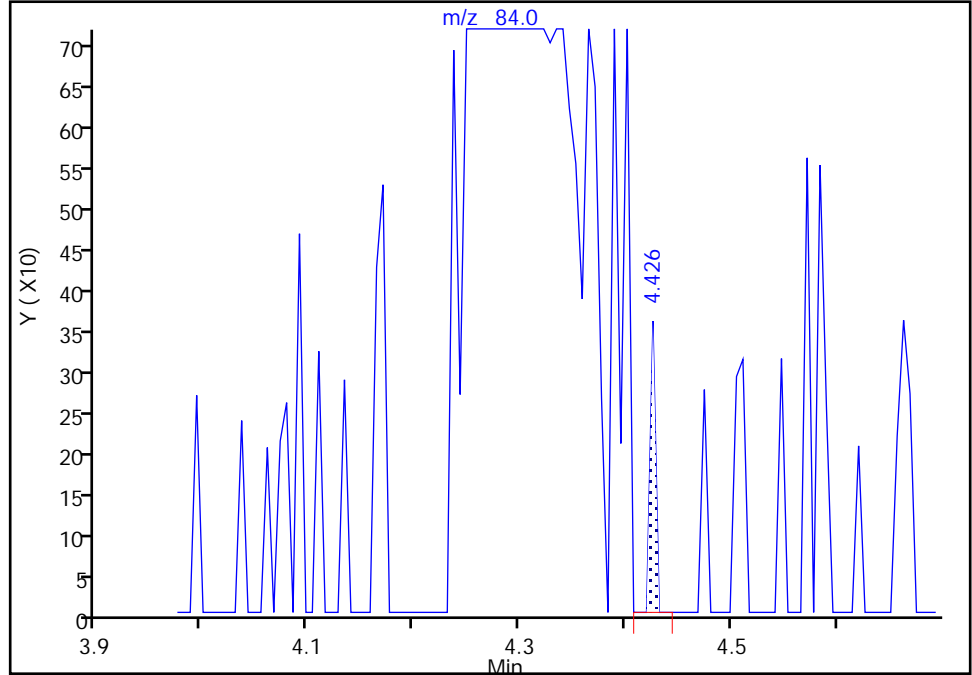
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Injection Date: 18-Oct-2019 15:43:30 Instrument ID: CHHP6
Lims ID: IC VSTD1
Client ID:
Operator ID: 433269 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

31 Methylene Chloride, CAS: 75-09-2

Signal: 1

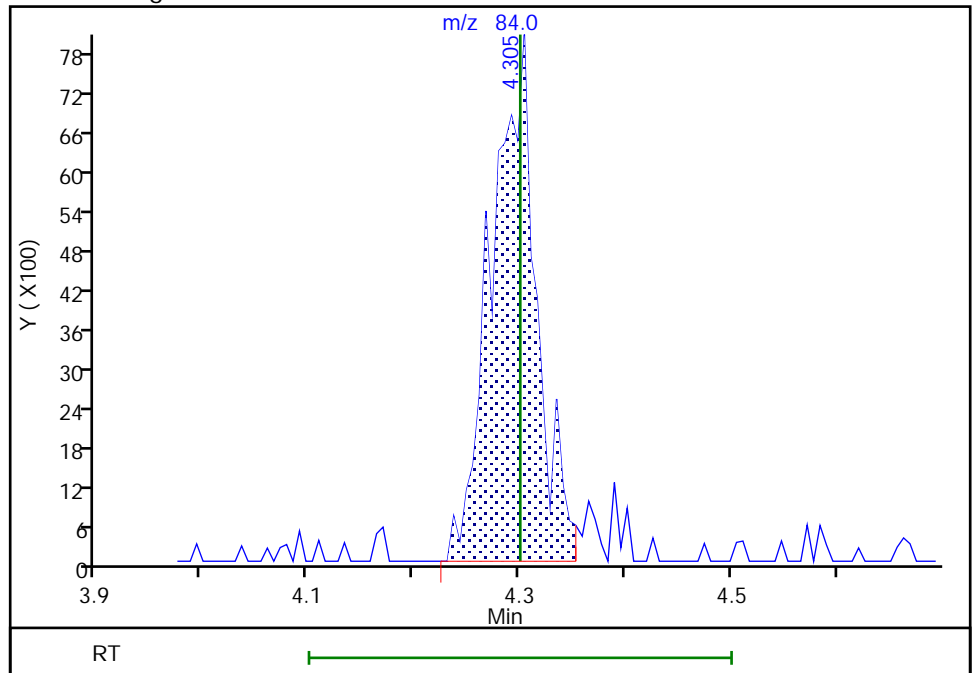
RT: 4.43
Area: 130
Amount: 4.903168
Amount Units: ng

Processing Integration Results



RT: 4.30
Area: 23973
Amount: 5.009153
Amount Units: ng

Manual Integration Results



Eurofins TestAmerica, Pittsburgh

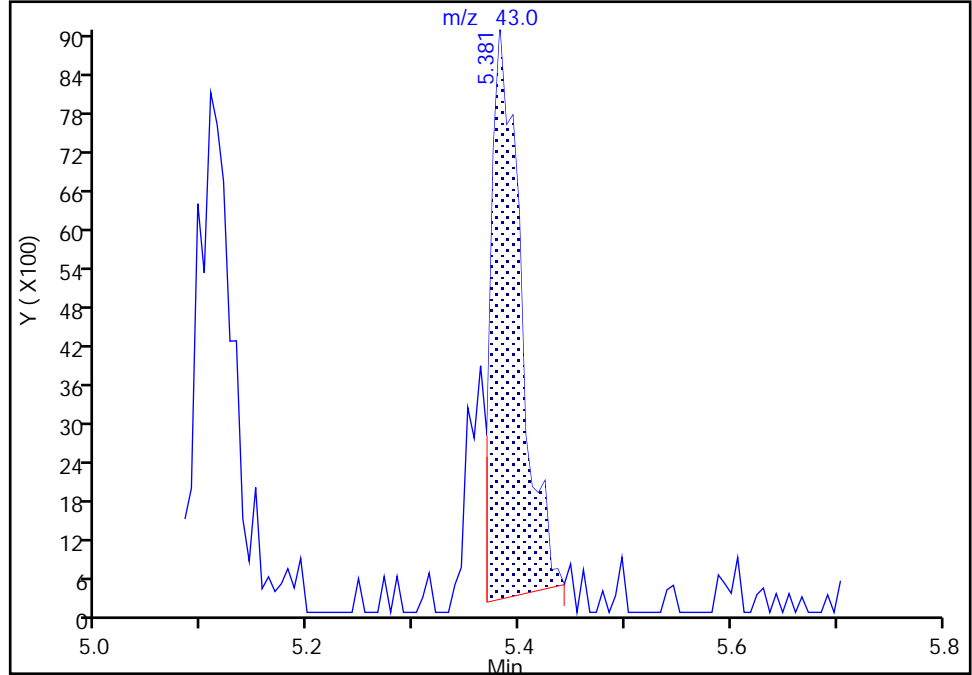
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Injection Date: 18-Oct-2019 15:43:30 Instrument ID: CHHP6
Lims ID: IC VSTD1
Client ID:
Operator ID: 433269 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

38 Vinyl acetate, CAS: 108-05-4

Signal: 1

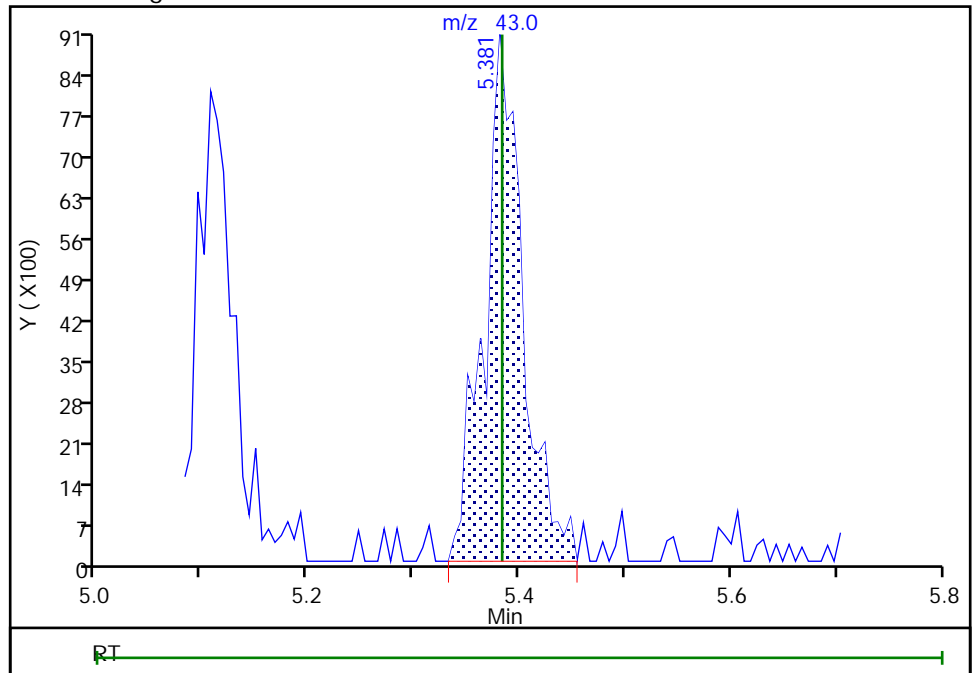
RT: 5.38
Area: 17150
Amount: 4.002000
Amount Units: ng

Processing Integration Results



RT: 5.38
Area: 22776
Amount: 4.832054
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 18-Oct-2019 17:38:50
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins TestAmerica, Pittsburgh

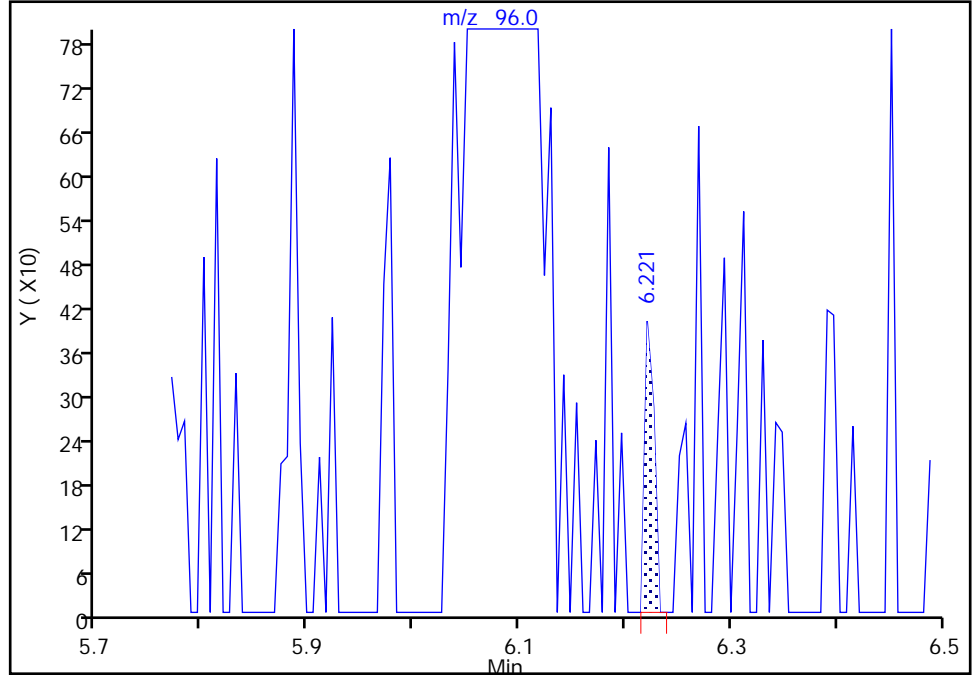
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Injection Date: 18-Oct-2019 15:43:30 Instrument ID: CHHP6
Lims ID: IC VSTD1
Client ID:
Operator ID: 433269 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

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

Signal: 1

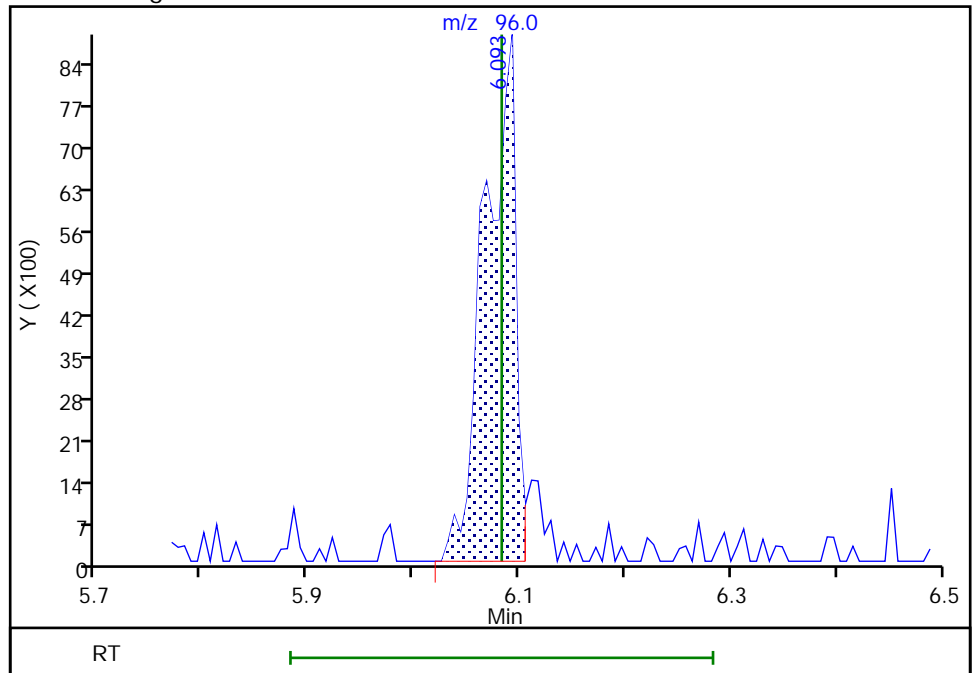
RT: 6.22
Area: 247
Amount: 0.103892
Amount Units: ng

Processing Integration Results



RT: 6.09
Area: 18013
Amount: 5.422691
Amount Units: ng

Manual Integration Results



Eurofins TestAmerica, Pittsburgh

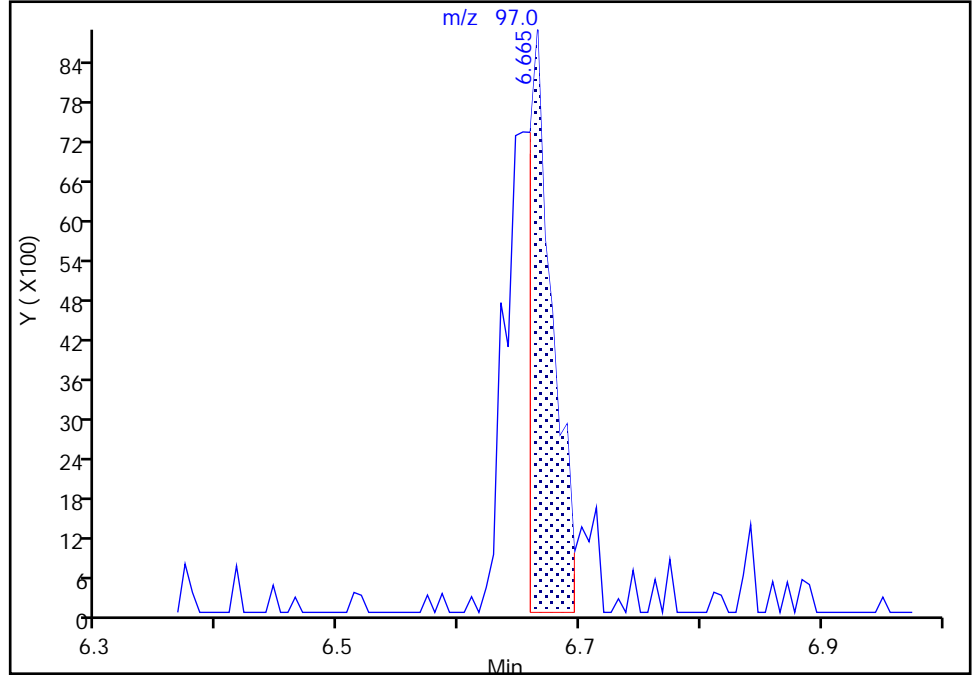
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Injection Date: 18-Oct-2019 15:43:30 Instrument ID: CHHP6
Lims ID: IC VSTD1
Client ID:
Operator ID: 433269 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

51 1,1,1-Trichloroethane, CAS: 71-55-6

Signal: 1

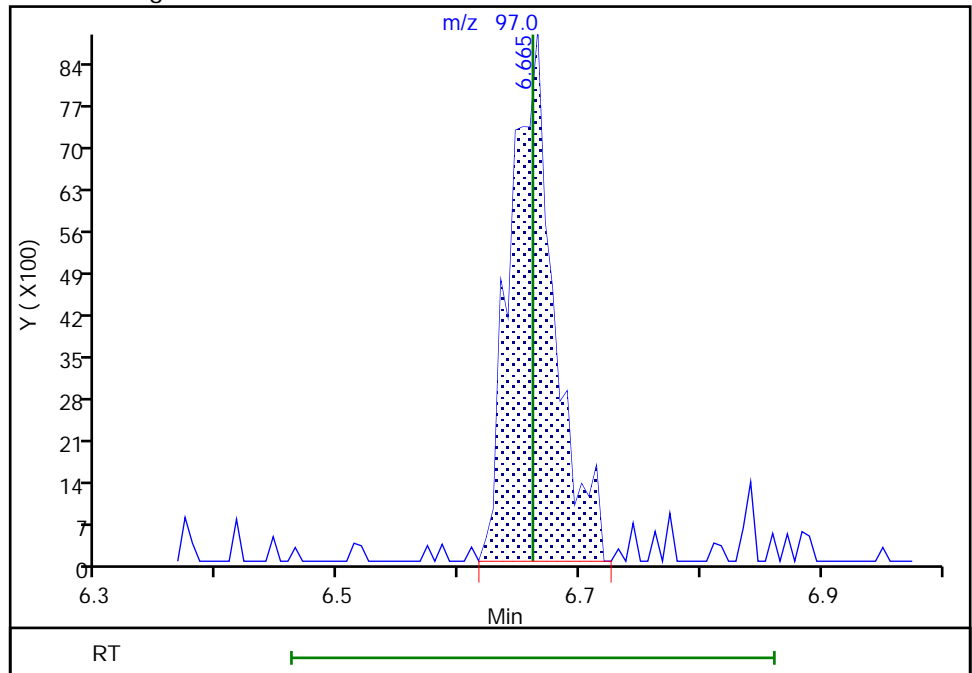
RT: 6.66
Area: 12038
Amount: 2.905567
Amount Units: ng

Processing Integration Results



RT: 6.66
Area: 22485
Amount: 4.604104
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 18-Oct-2019 17:38:37
Audit Action: Manually Integrated

Audit Reason: Poor chromatography
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Eurofins TestAmerica, Pittsburgh

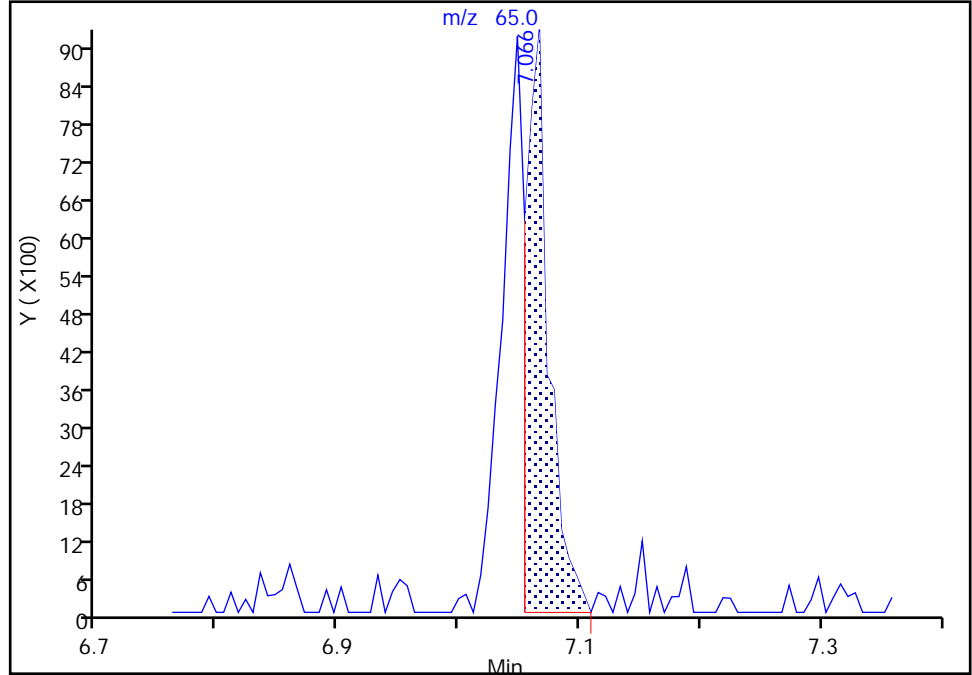
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Injection Date: 18-Oct-2019 15:43:30 Instrument ID: CHHP6
Lims ID: IC VSTD1
Client ID:
Operator ID: 433269 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

\$ 6 1,2-Dichloroethane-d4 (Surr), CAS: 17060-07-0

Signal: 1

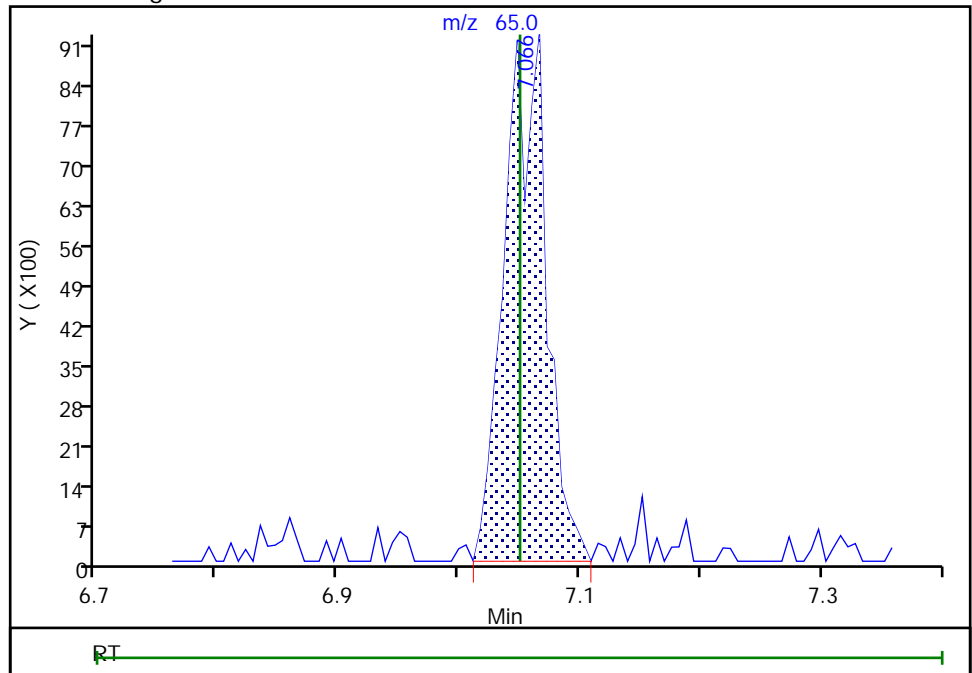
RT: 7.07
Area: 12401
Amount: 3.443356
Amount Units: ng

Processing Integration Results



RT: 7.07
Area: 22186
Amount: 5.576280
Amount Units: ng

Manual Integration Results



Eurofins TestAmerica, Pittsburgh

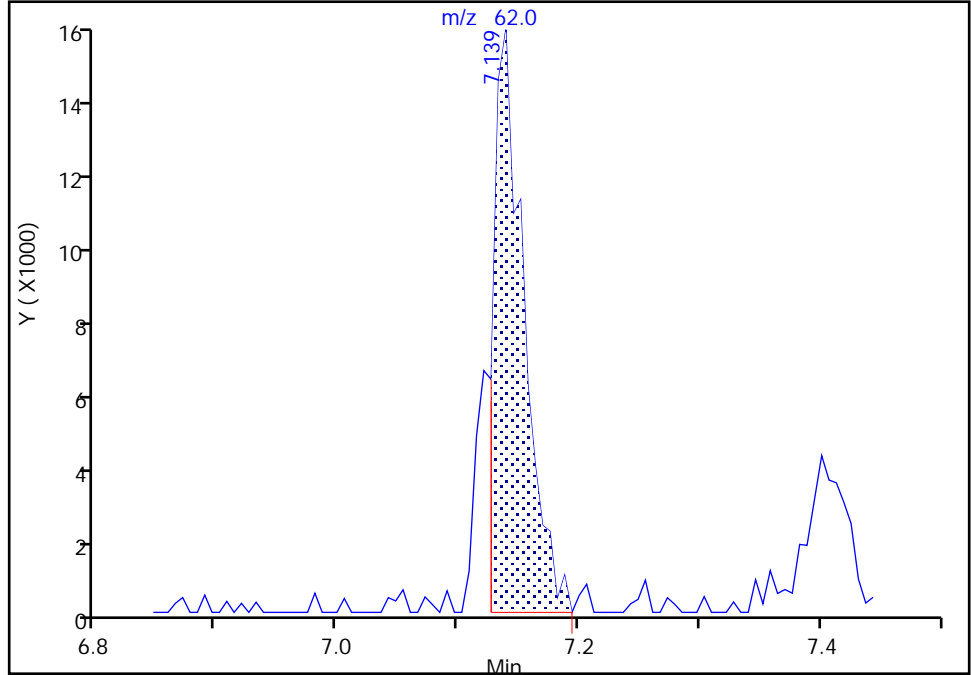
Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101810.D
Injection Date: 18-Oct-2019 15:43:30 Instrument ID: CHHP6
Lims ID: IC VSTD1
Client ID:
Operator ID: 433269 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

57 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

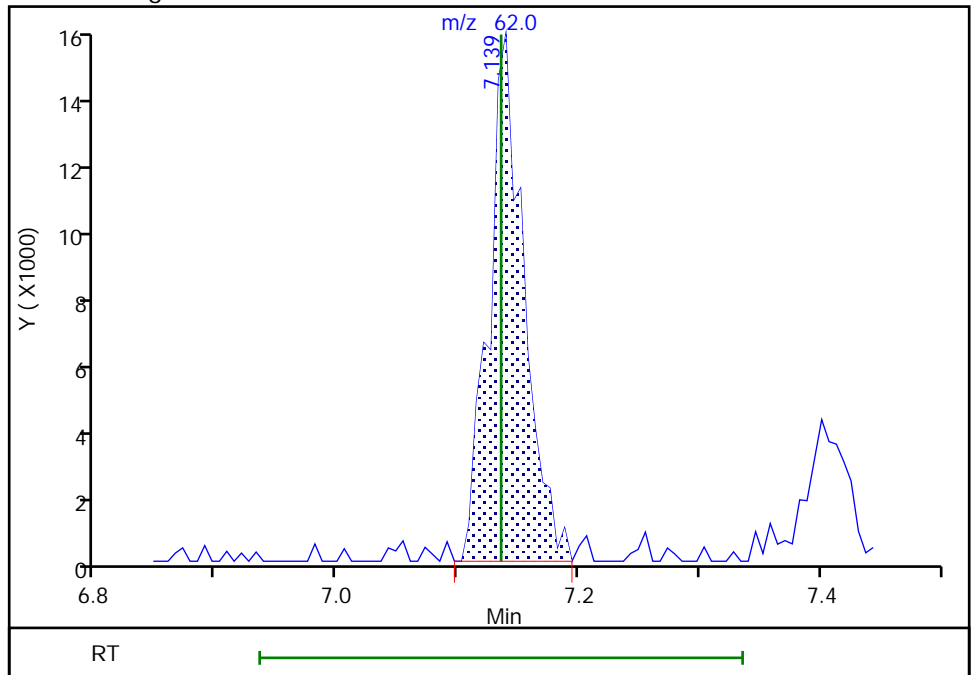
RT: 7.14
Area: 26696
Amount: 5.265908
Amount Units: ng

Processing Integration Results



RT: 7.14
Area: 31157
Amount: 5.968917
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 18-Oct-2019 17:38:30
Audit Action: Manually Integrated

Eurofins TestAmerica, Pittsburgh

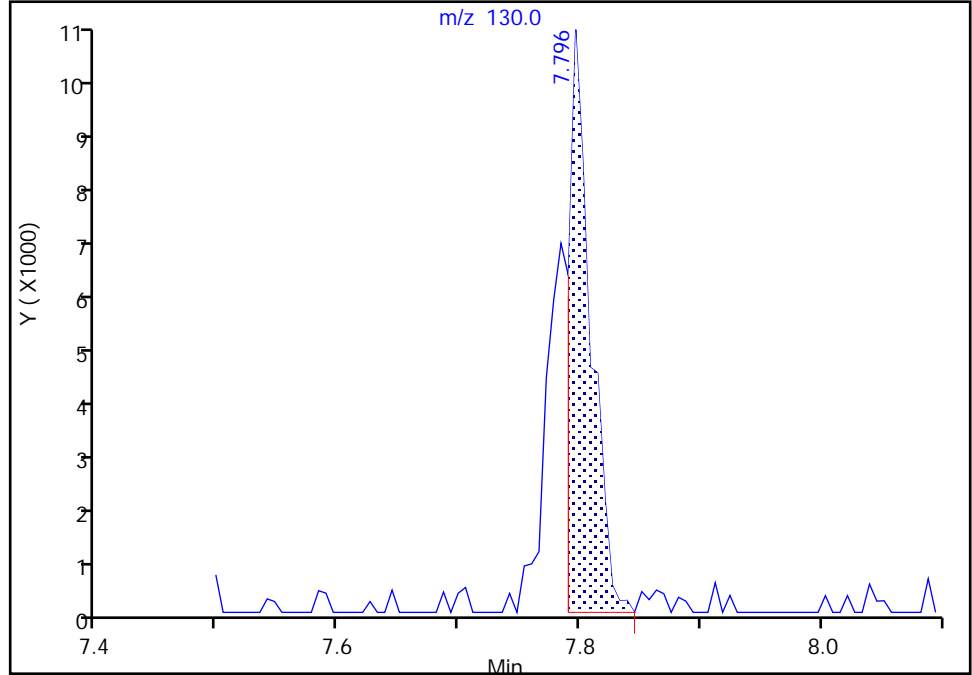
Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101810.D
Injection Date: 18-Oct-2019 15:43:30 Instrument ID: CHHP6
Lims ID: IC VSTD1
Client ID:
Operator ID: 433269 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

61 Trichloroethene, CAS: 79-01-6

Signal: 1

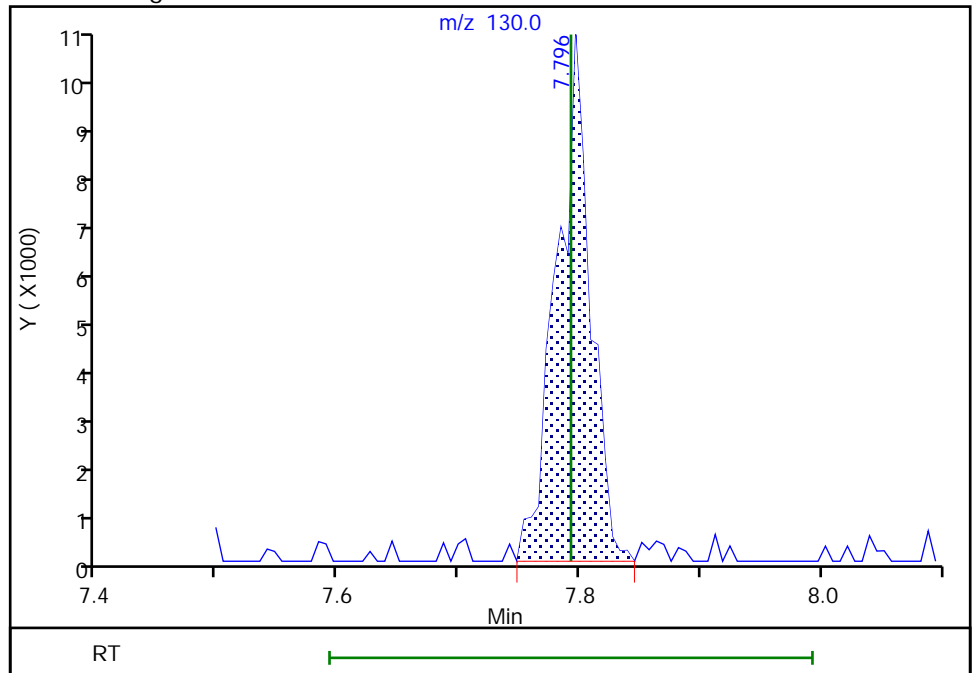
RT: 7.80
Area: 13815
Amount: 4.251830
Amount Units: ng

Processing Integration Results



RT: 7.80
Area: 21157
Amount: 5.937578
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 18-Oct-2019 17:38:25
Audit Action: Manually Integrated

Eurofins TestAmerica, Pittsburgh

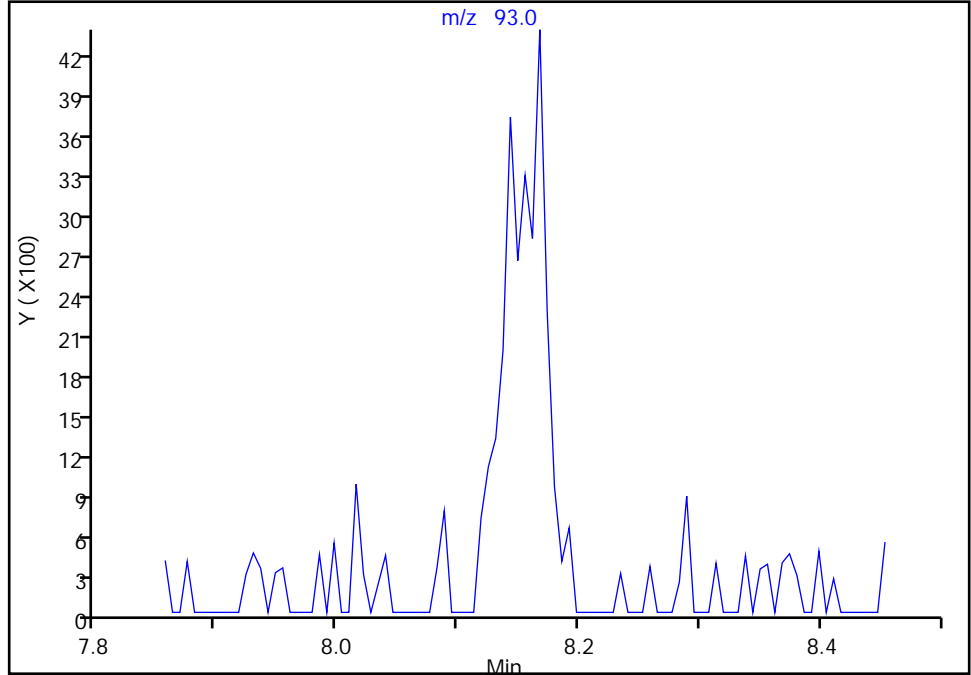
Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101810.D
Injection Date: 18-Oct-2019 15:43:30 Instrument ID: CHHP6
Lims ID: IC VSTD1
Client ID:
Operator ID: 433269 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

67 Dibromomethane, CAS: 74-95-3

Signal: 1

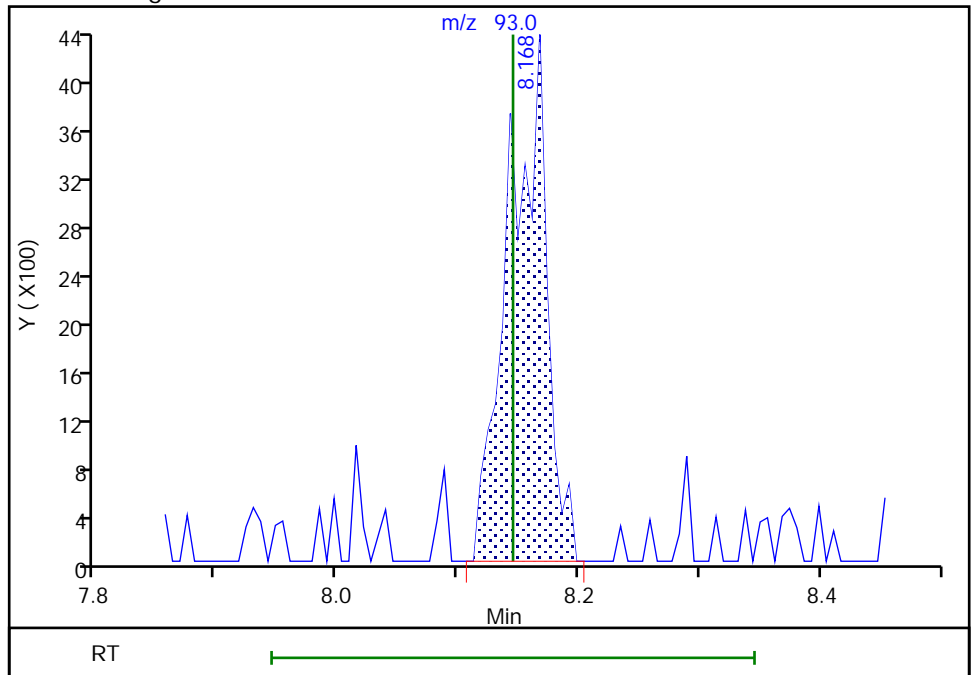
Not Detected
Expected RT: 8.15

Processing Integration Results



Manual Integration Results

RT: 8.17
Area: 9449
Amount: 5.765409
Amount Units: ng



Reviewer: bowieh, 18-Oct-2019 17:38:16
Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography
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Eurofins TestAmerica, Pittsburgh

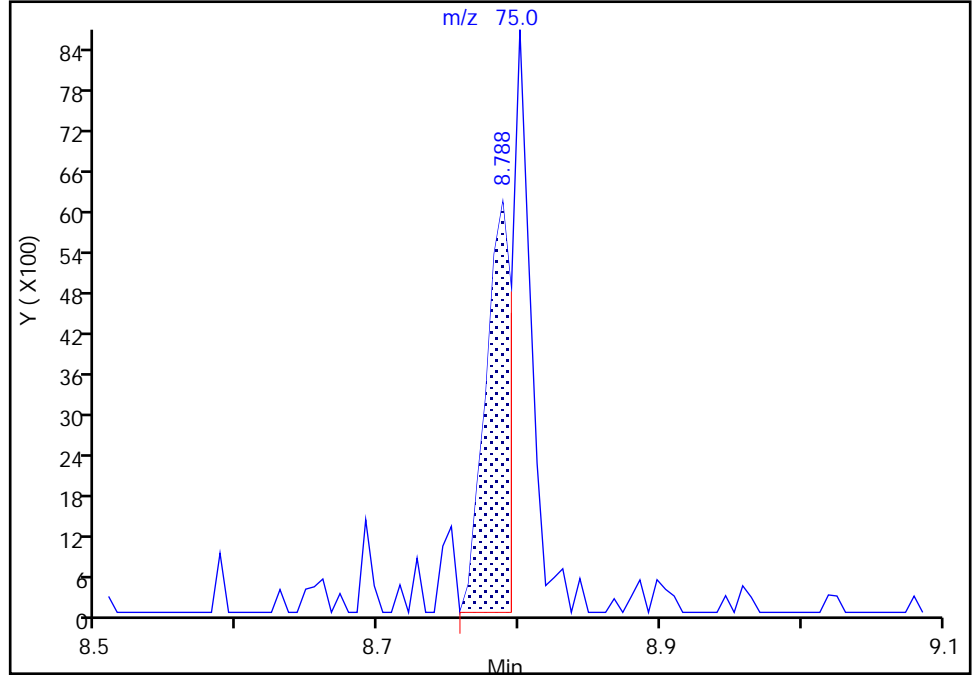
Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101810.D
Injection Date: 18-Oct-2019 15:43:30 Instrument ID: CHHP6
Lims ID: IC VSTD1
Client ID:
Operator ID: 433269 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

71 cis-1,3-Dichloropropene, CAS: 10061-01-5

Signal: 1

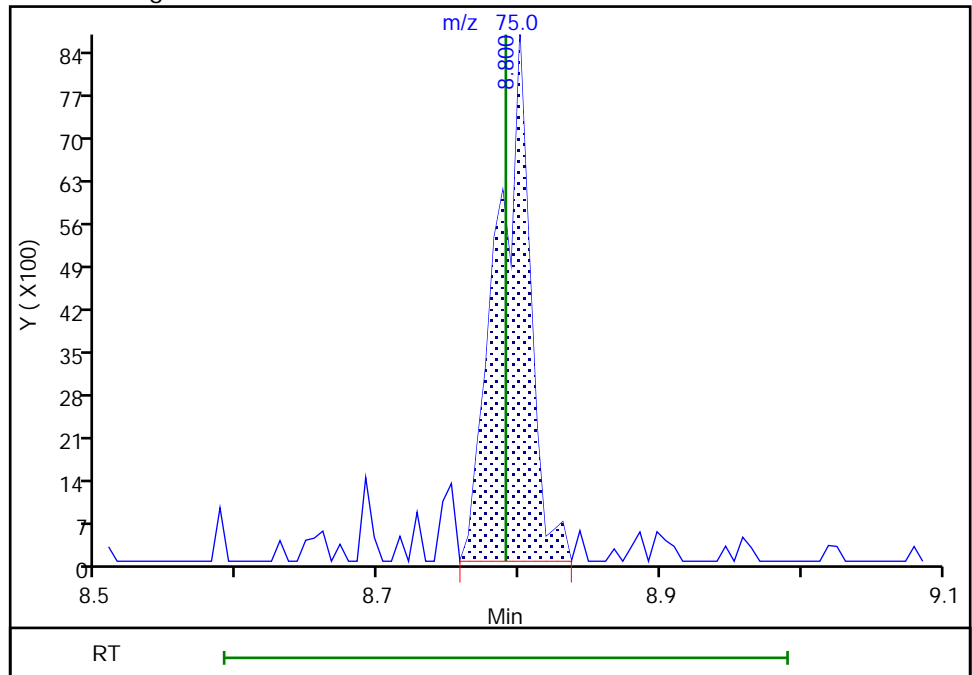
RT: 8.79
Area: 7913
Amount: 2.770913
Amount Units: ng

Processing Integration Results



RT: 8.80
Area: 14398
Amount: 4.012921
Amount Units: ng

Manual Integration Results



Eurofins TestAmerica, Pittsburgh

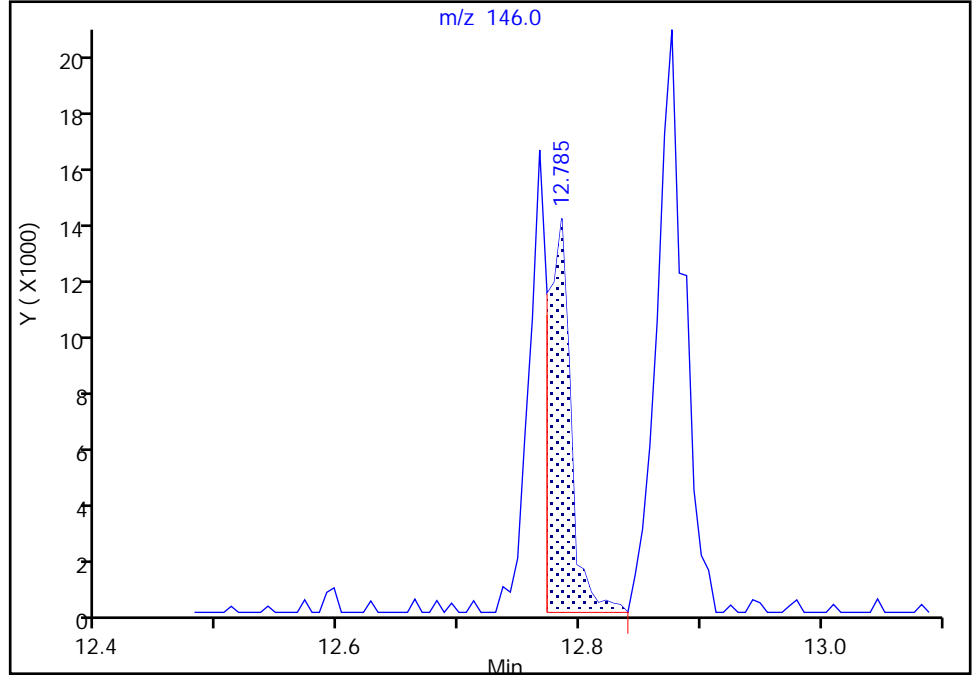
Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101810.D
Injection Date: 18-Oct-2019 15:43:30 Instrument ID: CHHP6
Lims ID: IC VSTD1
Client ID:
Operator ID: 433269 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

109 1,3-Dichlorobenzene, CAS: 541-73-1

Signal: 1

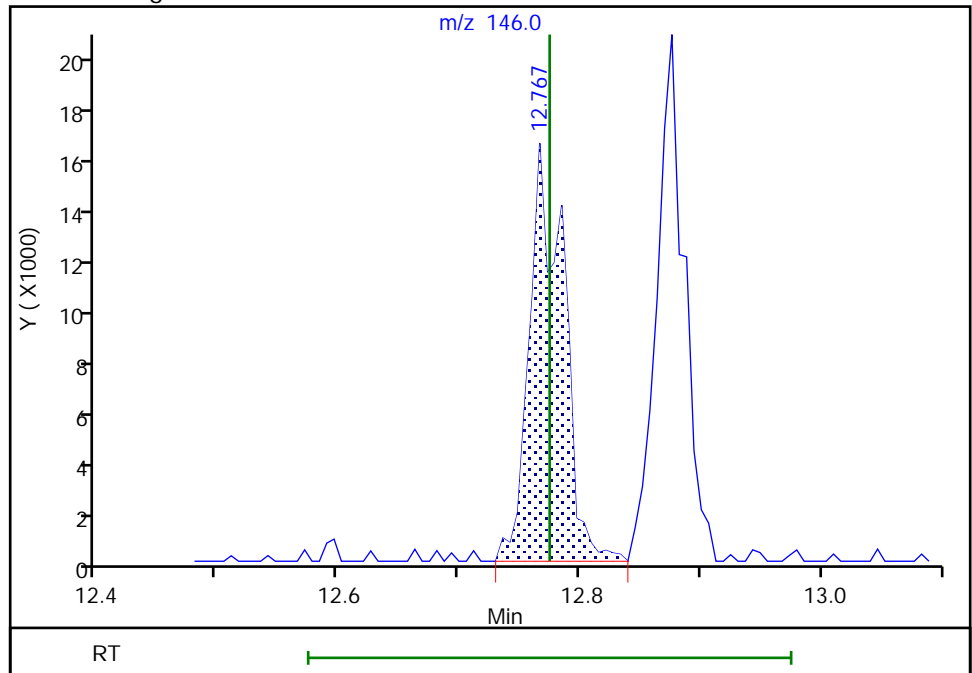
RT: 12.78
Area: 18735
Amount: 3.603906
Amount Units: ng

Processing Integration Results



RT: 12.77
Area: 32161
Amount: 5.771935
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 18-Oct-2019 17:37:57
Audit Action: Manually Integrated

Eurofins TestAmerica, Pittsburgh
Target Compound Quantitation Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101811.D
 Lims ID: IC VSTD5
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 18-Oct-2019 16:10:30 ALS Bottle#: 5 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-0029183-005
 Misc. Info.: ic vstd5
 Operator ID: 433269 Instrument ID: CHHP6
 Sublist: chrom-MSVOA_LL_CHHP6*sub121
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C_D ICAL
 Last Update: 19-Oct-2019 10:16:24 Calib Date: 18-Oct-2019 18:47:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101817.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX0306

First Level Reviewer: bowieh

Date: 18-Oct-2019 17:36:26

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.444	4.428	0.016	90	211682	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.407	7.403	0.004	98	573513	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.510	10.506	0.004	91	138945	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.852	12.854	-0.002	98	208017	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.677	6.685	-0.008	88	65075	25.0	24.2	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	7.060	7.050	0.010	58	105631	25.0	25.7	
\$ 7 Toluene-d8 (Surr)	98	9.056	9.052	0.004	94	256305	25.0	25.4	
\$ 8 4-Bromofluorobenzene (Surr	95	11.690	11.686	0.004	0	106981	25.0	25.6	
11 Dichlorodifluoromethane	85	1.658	1.666	-0.008	99	140098	25.0	24.1	
12 Chloromethane	50	1.877	1.885	-0.008	99	120942	25.0	25.0	
13 Vinyl chloride	62	1.999	1.995	0.004	75	101801	25.0	24.7	
14 Butadiene	39	2.011	2.019	-0.008	90	119091	25.0	25.4	
15 Bromomethane	94	2.321	2.336	-0.015	83	43861	25.0	25.3	M
16 Chloroethane	64	2.473	2.482	-0.009	94	53258	25.0	25.2	M
17 Dichlorofluoromethane	67	2.777	2.774	0.003	96	154471	25.0	26.9	
18 Trichlorofluoromethane	101	2.802	2.798	0.004	76	171334	25.0	26.1	a
20 Ethyl ether	59	3.167	3.175	-0.008	94	66276	25.0	26.0	
21 Acrolein	56	3.362	3.364	-0.002	95	44145	125.0	121.4	
22 1,1-Dichloroethene	96	3.465	3.467	-0.002	96	71551	25.0	26.1	
23 1,1,2-Trichloro-1,2,2-trif	101	3.556	3.540	0.016	90	82432	25.0	24.5	M
24 Acetone	43	3.581	3.583	-0.003	100	101582	50.0	62.8	
25 Iodomethane	142	3.666	3.668	-0.002	96	102611	25.0	23.1	
26 Carbon disulfide	76	3.751	3.747	0.004	100	180133	25.0	24.2	
29 3-Chloro-1-propene	76	4.079	4.076	0.003	83	35695	25.0	22.1	
30 Methyl acetate	43	4.098	4.094	0.004	99	104034	50.0	48.0	
31 Methylene Chloride	84	4.292	4.301	-0.009	99	88522	25.0	25.6	
32 2-Methyl-2-propanol	59	4.572	4.562	0.010	82	46053	250.0	210.2	
33 Acrylonitrile	53	4.682	4.678	0.004	99	260443	250.0	237.4	
34 trans-1,2-Dichloroethene	96	4.700	4.696	0.004	95	87408	25.0	26.4	
35 Methyl tert-butyl ether	73	4.718	4.720	-0.002	98	165784	25.0	23.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	5.114	5.122	-0.008	92	142056	25.0	24.8	
37 1,1-Dichloroethane	63	5.333	5.329	0.004	97	138880	25.0	24.0	
38 Vinyl acetate	43	5.387	5.383	0.004	97	128131	25.0	26.3	
42 2,2-Dichloropropane	97	6.063	6.071	-0.008	69	16430	25.0	23.9	
43 cis-1,2-Dichloroethene	96	6.081	6.083	-0.002	85	77250	25.0	22.5	
44 2-Butanone (MEK)	43	6.099	6.095	0.004	94	102136	50.0	63.0	
48 Chlorobromomethane	128	6.361	6.357	0.004	96	37242	25.0	23.8	
49 Tetrahydrofuran	42	6.367	6.375	-0.008	0	37070	50.0	43.6	
50 Chloroform	83	6.507	6.509	-0.002	96	146729	25.0	24.6	
51 1,1,1-Trichloroethane	97	6.665	6.661	0.004	96	122203	25.0	24.2	
52 Cyclohexane	56	6.732	6.728	0.004	94	170832	25.0	24.8	
53 Carbon tetrachloride	117	6.829	6.831	-0.002	98	104083	25.0	24.3	
54 1,1-Dichloropropene	75	6.841	6.844	-0.003	87	113777	25.0	24.7	
55 Isobutyl alcohol	41	7.054	7.050	0.004	42	38996	625.0	566.6	
56 Benzene	78	7.066	7.069	-0.003	97	316211	25.0	26.5	
57 1,2-Dichloroethane	62	7.139	7.136	0.003	98	133126	25.0	24.6	
59 n-Heptane	43	7.413	7.415	-0.002	87	134925	25.0	24.2	
61 Trichloroethene	130	7.790	7.793	-0.003	95	89656	25.0	24.3	
63 Methylcyclohexane	83	8.021	8.024	-0.003	94	150129	25.0	24.3	
64 1,2-Dichloropropane	63	8.064	8.060	0.004	89	69700	25.0	24.5	
67 Dibromomethane	93	8.149	8.145	0.004	93	36806	25.0	21.7	
65 1,4-Dioxane	88	8.143	8.151	-0.008	41	8776	500.0	403.2	
68 Dichlorobromomethane	83	8.350	8.346	0.004	96	86307	25.0	24.0	
71 cis-1,3-Dichloropropene	75	8.788	8.790	-0.002	87	79485	25.0	21.4	
72 4-Methyl-2-pentanone (MIBK)	43	8.952	8.954	-0.002	98	124911	50.0	53.0	
73 Toluene	91	9.123	9.119	0.004	97	326793	25.0	26.1	
74 trans-1,3-Dichloropropene	75	9.372	9.368	0.004	94	67769	25.0	21.2	
75 Ethyl methacrylate	69	9.427	9.429	-0.002	90	71263	25.0	23.8	
76 1,1,2-Trichloroethane	97	9.561	9.557	0.004	96	57821	25.0	25.1	
77 Tetrachloroethene	164	9.627	9.630	-0.003	92	65751	25.0	25.0	
78 1,3-Dichloropropane	76	9.719	9.721	-0.002	97	103442	25.0	25.7	
79 2-Hexanone	43	9.786	9.782	0.004	91	105841	50.0	54.7	
81 Chlorodibromomethane	129	9.944	9.940	0.004	96	48690	25.0	21.6	
82 Ethylene Dibromide	107	10.047	10.050	-0.003	97	54280	25.0	23.1	
84 Chlorobenzene	112	10.540	10.536	0.004	91	228335	25.0	27.5	
86 1,1,1,2-Tetrachloroethane	131	10.631	10.627	0.004	40	64870	25.0	24.4	
87 Ethylbenzene	106	10.637	10.634	0.003	99	120820	25.0	24.8	
88 m-Xylene & p-Xylene	106	10.765	10.767	-0.002	99	147871	25.0	24.9	
89 o-Xylene	106	11.148	11.151	-0.003	96	147019	25.0	25.7	
90 Styrene	104	11.167	11.169	-0.002	94	238366	25.0	26.3	
91 Bromoform	173	11.355	11.357	-0.002	91	28628	25.0	24.6	
93 Isopropylbenzene	105	11.513	11.516	-0.003	96	411723	25.0	27.3	
95 Bromobenzene	156	11.836	11.832	0.004	95	76216	25.0	23.2	
96 1,1,2,2-Tetrachloroethane	83	11.830	11.838	-0.008	71	58803	25.0	24.0	
97 trans-1,4-Dichloro-2-buten	53	11.866	11.875	-0.009	56	24350	25.0	23.7	
98 1,2,3-Trichloropropane	110	11.884	11.887	-0.003	87	27261	25.0	24.8	
99 N-Propylbenzene	120	11.933	11.929	0.004	98	115147	25.0	25.6	
100 2-Chlorotoluene	126	12.024	12.021	0.003	95	93485	25.0	26.2	
102 1,3,5-Trimethylbenzene	105	12.116	12.118	-0.002	92	362329	25.0	27.5	
103 4-Chlorotoluene	126	12.146	12.148	-0.002	99	103504	25.0	27.6	
104 tert-Butylbenzene	119	12.432	12.428	0.004	93	292224	25.0	25.4	
106 1,2,4-Trimethylbenzene	105	12.493	12.489	0.004	97	330832	25.0	25.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
108 sec-Butylbenzene	105	12.657	12.653	0.004	95	427097	25.0	26.5	
109 1,3-Dichlorobenzene	146	12.773	12.775	-0.002	96	158963	25.0	25.8	
110 4-Isopropyltoluene	119	12.809	12.811	-0.002	97	368019	25.0	26.2	
111 1,4-Dichlorobenzene	146	12.876	12.878	-0.002	87	147602	25.0	24.1	
116 n-Butylbenzene	91	13.217	13.219	-0.002	97	297534	25.0	25.2	
117 1,2-Dichlorobenzene	146	13.241	13.237	0.004	94	137798	25.0	24.6	
118 1,2-Dibromo-3-Chloropropan	75	14.038	14.028	0.010	71	7808	25.0	20.9	
122 1,2,4-Trichlorobenzene	180	14.847	14.849	-0.002	91	60014	25.0	22.0	
123 Hexachlorobutadiene	225	14.987	14.989	-0.002	94	43403	25.0	25.4	
124 Naphthalene	128	15.115	15.117	-0.002	98	119367	25.0	20.4	
125 1,2,3-Trichlorobenzene	180	15.352	15.348	0.004	88	42232	25.0	19.7	
S 131 Xylenes, Total	106				0		50.0	50.6	
S 130 1,2-Dichloroethene, Total	96				0		50.0	48.9	
S 132 1,3-Dichloropropene, Total	1				0		50.0	42.6	
S 154 Total BTEX	1				0		125.0	128.1	

QC Flag Legend

Review Flags

- M - Manually Integrated
- a - User Assigned ID

Reagents:

VOACRPRI_00021	Amount Added: 5.00	Units: uL	
VOAVAPRI_00028	Amount Added: 1.00	Units: uL	
VOA8260VOAPRI_00376	Amount Added: 1.00	Units: uL	
VOA8260SURR_00100	Amount Added: 1.00	Units: uL	
voaWKetmix1st_00019	Amount Added: 1.00	Units: uL	
VOA8260INT_00100	Amount Added: 2.00	Units: uL	Run Reagent

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101811.D

Injection Date: 18-Oct-2019 16:10:30

Instrument ID: CHHP6

Operator ID: 433269

Lims ID: IC VSTD5

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

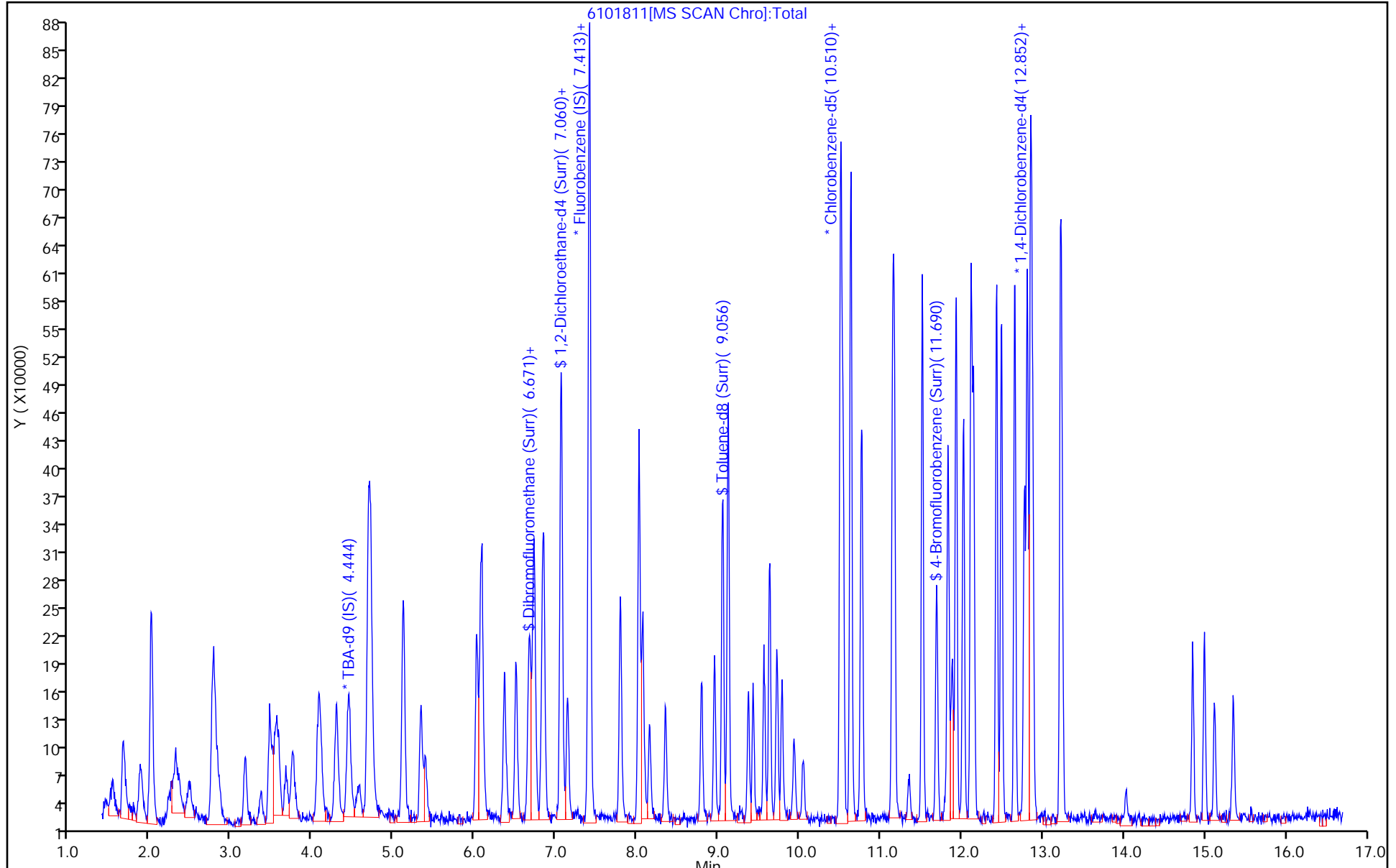
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C_D ICAL

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Pittsburgh

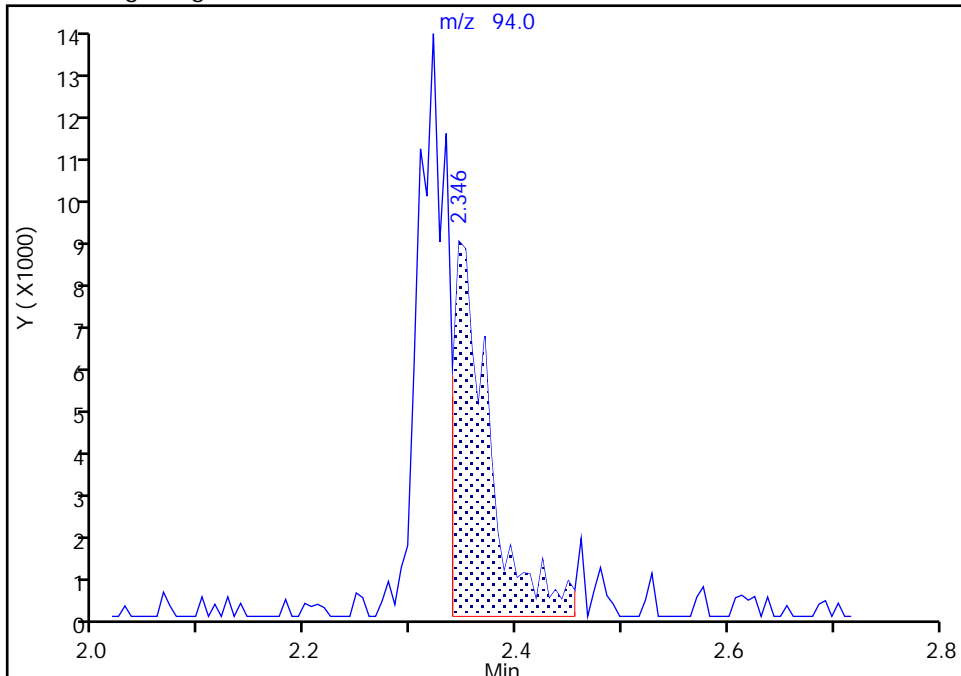
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Injection Date: 18-Oct-2019 16:10:30 Instrument ID: CHHP6
Lims ID: IC VSTD5
Client ID:
Operator ID: 433269 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

15 Bromomethane, CAS: 74-83-9

Signal: 1

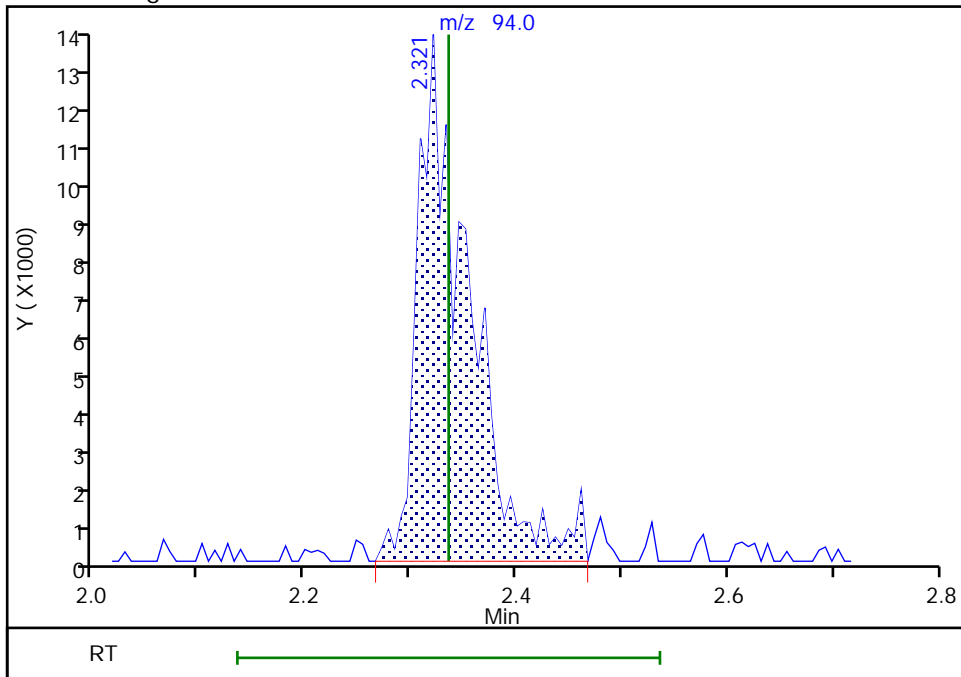
RT: 2.35
Area: 20185
Amount: 16.451065
Amount Units: ng

Processing Integration Results



RT: 2.32
Area: 43861
Amount: 25.262132
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 18-Oct-2019 17:35:30
Audit Action: Manually Integrated

Eurofins TestAmerica, Pittsburgh

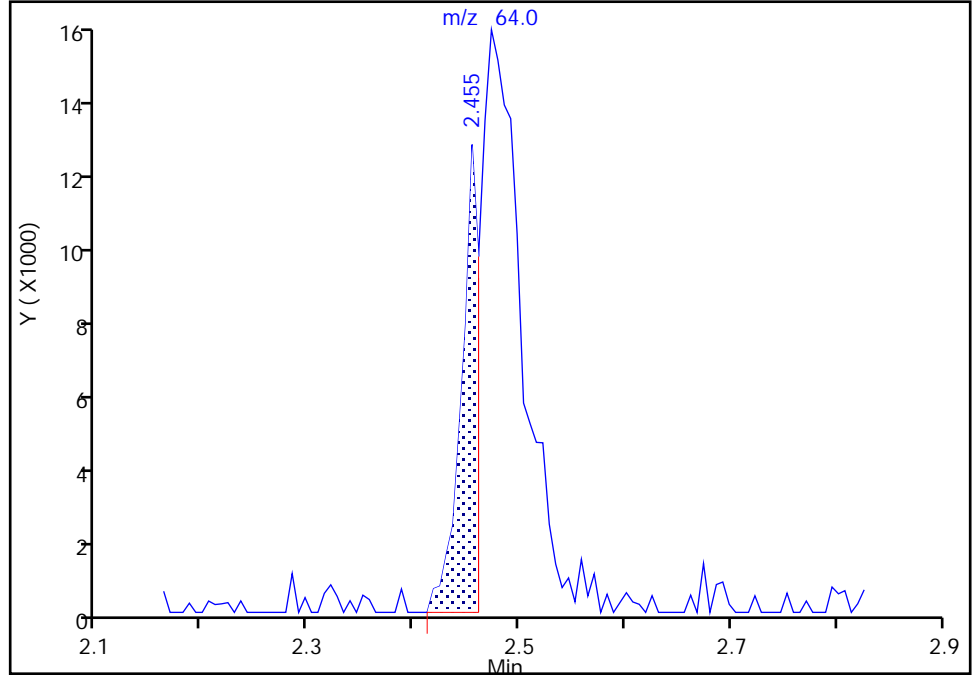
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Injection Date: 18-Oct-2019 16:10:30 Instrument ID: CHHP6
Lims ID: IC VSTD5
Client ID:
Operator ID: 433269 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

16 Chloroethane, CAS: 75-00-3

Signal: 1

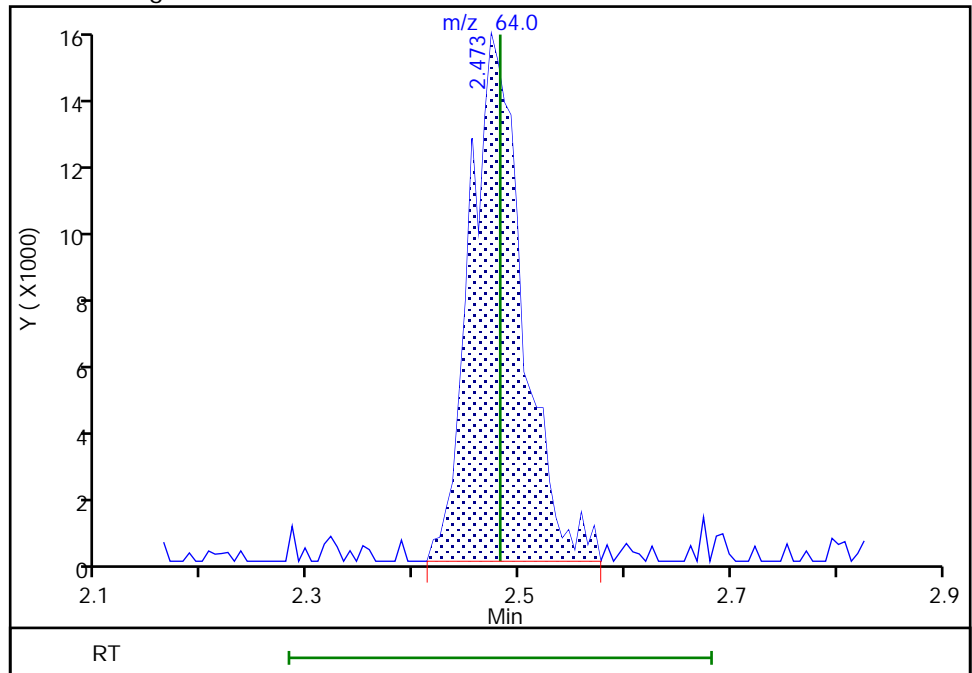
RT: 2.46
Area: 14328
Amount: 10.920993
Amount Units: ng

Processing Integration Results



RT: 2.47
Area: 53258
Amount: 25.217691
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 18-Oct-2019 17:35:37
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins TestAmerica, Pittsburgh

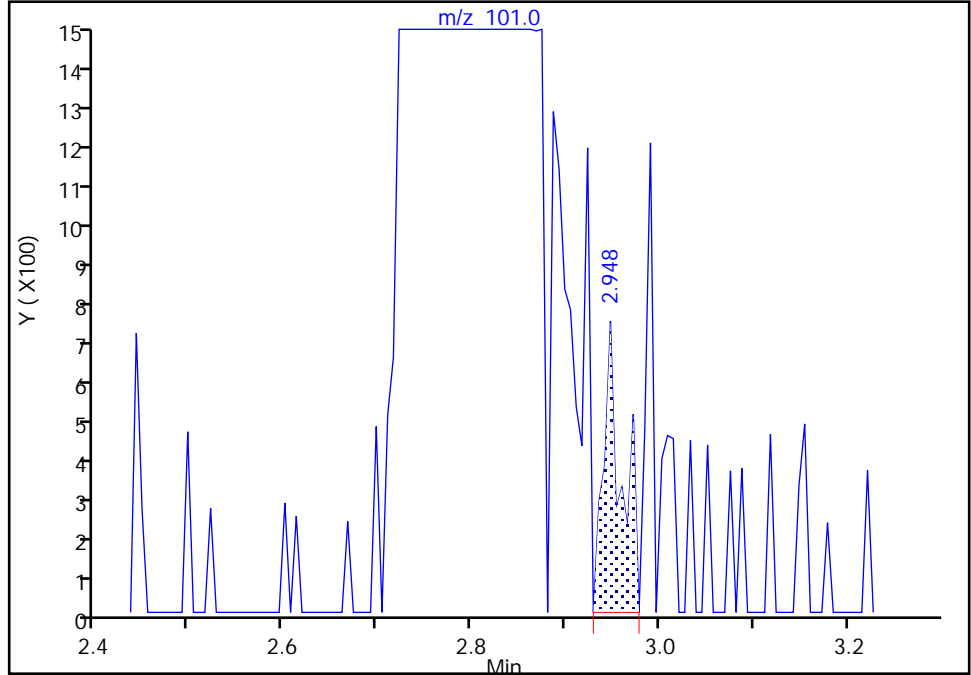
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Injection Date: 18-Oct-2019 16:10:30 Instrument ID: CHHP6
Lims ID: IC VSTD5
Client ID:
Operator ID: 433269 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

18 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

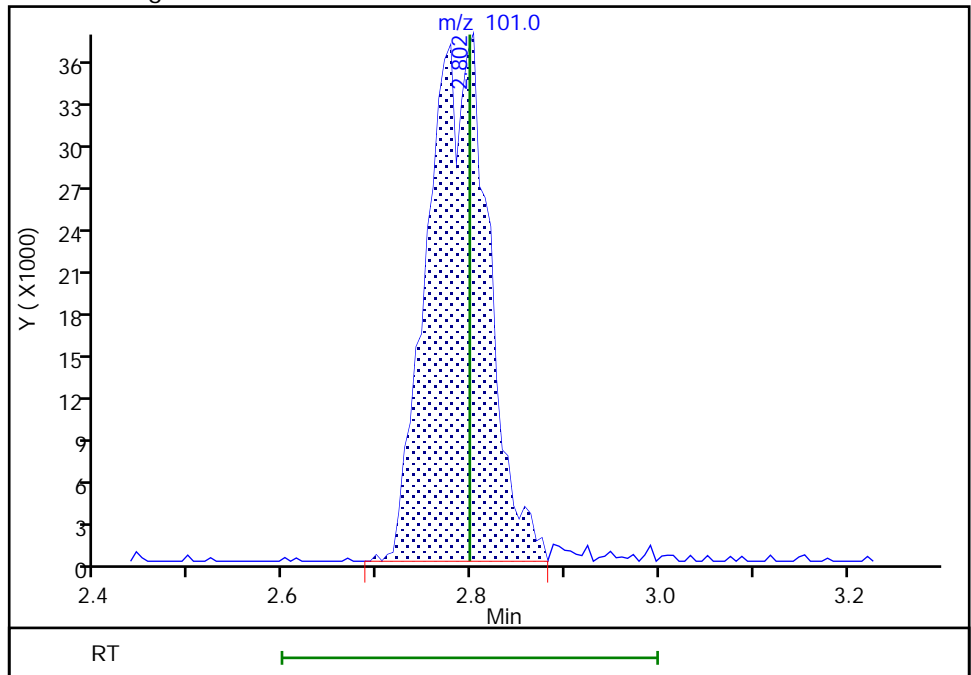
RT: 2.95
Area: 942
Amount: 0.189699
Amount Units: ng

Processing Integration Results



RT: 2.80
Area: 171334
Amount: 26.099778
Amount Units: ng

Manual Integration Results



Eurofins TestAmerica, Pittsburgh

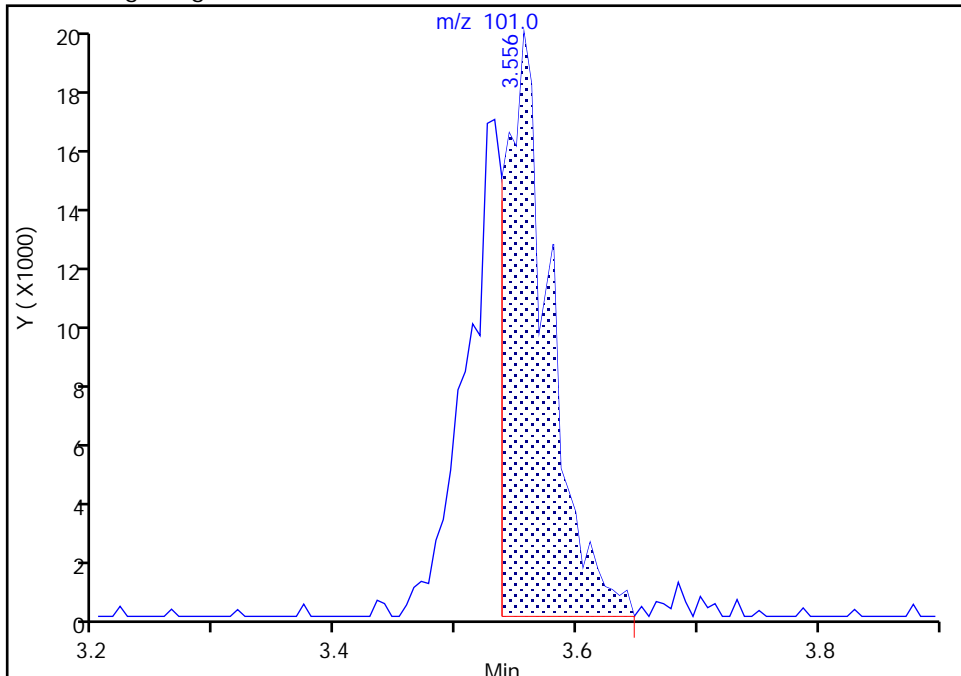
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Injection Date: 18-Oct-2019 16:10:30 Instrument ID: CHHP6
Lims ID: IC VSTD5
Client ID:
Operator ID: 433269 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

23 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

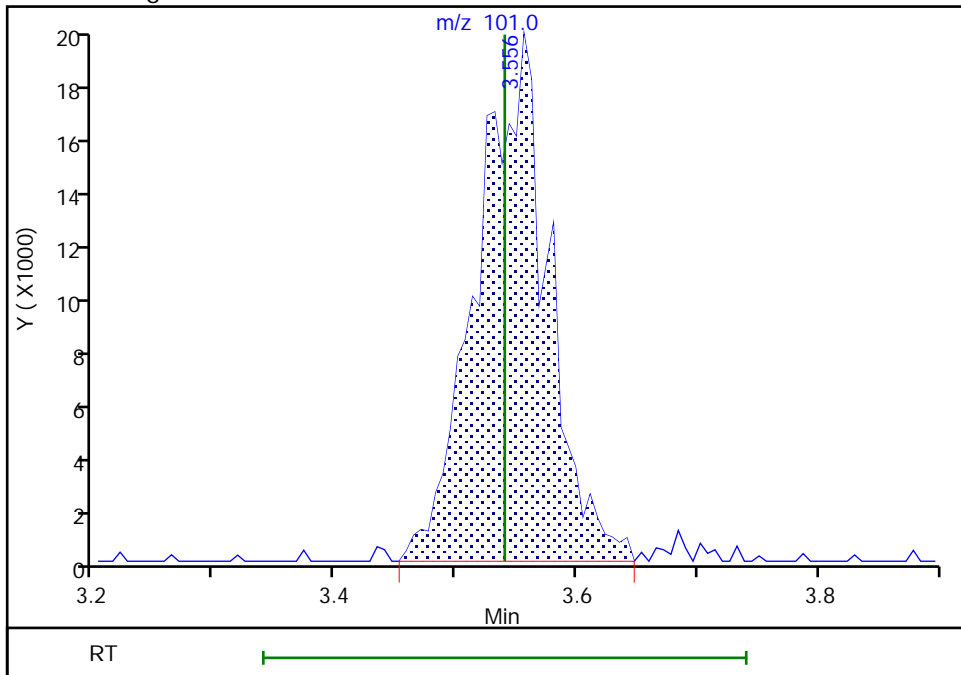
RT: 3.56
Area: 51646
Amount: 17.578909
Amount Units: ng

Processing Integration Results



RT: 3.56
Area: 82432
Amount: 24.545987
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 18-Oct-2019 17:35:53
Audit Action: Manually Integrated

Eurofins TestAmerica, Pittsburgh
Target Compound Quantitation Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101812.D
 Lims ID: ICIS VSTD10
 Client ID:
 Sample Type: ICIS Calib Level: 3
 Inject. Date: 18-Oct-2019 16:37:30 ALS Bottle#: 6 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-0029183-006
 Misc. Info.: icis vstd10
 Operator ID: 433269 Instrument ID: CHHP6
 Sublist: chrom-MSVOA_LL_CHHP6*sub121
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C_D ICAL
 Last Update: 19-Oct-2019 10:16:49 Calib Date: 18-Oct-2019 18:47:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101817.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX0306

First Level Reviewer: bowieh

Date: 18-Oct-2019 17:34:44

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.428	4.428	0.000	93	189520	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.403	7.403	0.000	97	536224	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.506	10.506	0.000	89	136204	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.854	12.854	0.000	97	194978	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.685	6.685	0.000	91	120446	50.0	47.8	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	7.050	7.050	0.000	63	182870	50.0	47.5	
\$ 7 Toluene-d8 (Surr)	98	9.052	9.052	0.000	95	497127	50.0	50.2	
\$ 8 4-Bromofluorobenzene (Surr	95	11.686	11.686	0.000	0	208395	50.0	50.9	
11 Dichlorodifluoromethane	85	1.666	1.666	0.000	98	234612	50.0	43.2	
12 Chloromethane	50	1.885	1.885	0.000	98	202013	50.0	44.6	
13 Vinyl chloride	62	1.995	1.995	0.000	94	167411	50.0	43.5	
14 Butadiene	39	2.019	2.019	0.000	95	195067	50.0	44.6	
15 Bromomethane	94	2.336	2.336	0.000	95	71551	50.0	44.1	
16 Chloroethane	64	2.482	2.482	0.000	98	84387	50.0	44.7	
17 Dichlorofluoromethane	67	2.774	2.774	0.000	96	235204	50.0	43.7	
18 Trichlorofluoromethane	101	2.798	2.798	0.000	91	270020	50.0	44.0	a
20 Ethyl ether	59	3.175	3.175	0.000	94	107244	50.0	45.0	
21 Acrolein	56	3.364	3.364	0.000	95	47801	150.0	140.6	
22 1,1-Dichloroethene	96	3.467	3.467	0.000	92	113810	50.0	44.3	
23 1,1,2-Trichloro-1,2,2-trif	101	3.540	3.540	0.000	95	148050	50.0	47.2	
24 Acetone	43	3.583	3.583	0.000	97	146644	100.0	96.9	
25 Iodomethane	142	3.668	3.668	0.000	97	206282	50.0	49.7	
26 Carbon disulfide	76	3.747	3.747	0.000	100	302350	50.0	43.4	
29 3-Chloro-1-propene	76	4.076	4.076	0.000	82	59101	50.0	39.2	
30 Methyl acetate	43	4.094	4.094	0.000	99	188704	100.0	93.1	
31 Methylene Chloride	84	4.301	4.301	0.000	98	139180	50.0	45.0	
32 2-Methyl-2-propanol	59	4.562	4.562	0.000	93	82861	500.0	422.5	
33 Acrylonitrile	53	4.678	4.678	0.000	100	497335	500.0	484.9	
34 trans-1,2-Dichloroethene	96	4.696	4.696	0.000	95	138728	50.0	44.9	
35 Methyl tert-butyl ether	73	4.720	4.720	0.000	98	321786	50.0	48.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	5.122	5.122	0.000	92	237306	50.0	44.3	a
37 1,1-Dichloroethane	63	5.329	5.329	0.000	97	244157	50.0	45.2	
38 Vinyl acetate	43	5.383	5.383	0.000	98	201805	50.0	44.2	
42 2,2-Dichloropropane	97	6.071	6.071	0.000	60	24948	50.0	38.8	M
43 cis-1,2-Dichloroethene	96	6.083	6.083	0.000	85	149857	50.0	46.6	
44 2-Butanone (MEK)	43	6.095	6.095	0.000	96	153280	100.0	101.1	
48 Chlorobromomethane	128	6.357	6.357	0.000	96	67394	50.0	46.0	
49 Tetrahydrofuran	42	6.375	6.375	0.000	0	72092	100.0	97.1	
50 Chloroform	83	6.509	6.509	0.000	97	255065	50.0	45.8	
51 1,1,1-Trichloroethane	97	6.661	6.661	0.000	97	213095	50.0	45.1	
52 Cyclohexane	56	6.728	6.728	0.000	95	285298	50.0	44.3	
53 Carbon tetrachloride	117	6.831	6.831	0.000	95	175589	50.0	43.9	
54 1,1-Dichloropropene	75	6.844	6.844	0.000	90	198864	50.0	46.3	
55 Isobutyl alcohol	41	7.050	7.050	0.000	47	71965	1250.0	1118.4	
56 Benzene	78	7.069	7.069	0.000	96	508418	50.0	45.6	
57 1,2-Dichloroethane	62	7.136	7.136	0.000	97	230372	50.0	45.6	
59 n-Heptane	43	7.415	7.415	0.000	91	232673	50.0	44.6	
61 Trichloroethene	130	7.793	7.793	0.000	93	151333	50.0	43.9	
63 Methylcyclohexane	83	8.024	8.024	0.000	96	258401	50.0	44.8	
64 1,2-Dichloropropane	63	8.060	8.060	0.000	85	116947	50.0	44.0	
67 Dibromomethane	93	8.145	8.145	0.000	94	77060	50.0	48.6	
65 1,4-Dioxane	88	8.151	8.151	0.000	46	18405	1000.0	954.2	
68 Dichlorobromomethane	83	8.346	8.346	0.000	97	150764	50.0	44.8	
71 cis-1,3-Dichloropropene	75	8.790	8.790	0.000	85	147534	50.0	42.5	
72 4-Methyl-2-pentanone (MIBK)	43	8.954	8.954	0.000	97	212432	100.0	92.0	
73 Toluene	91	9.119	9.119	0.000	98	568297	50.0	46.4	
74 trans-1,3-Dichloropropene	75	9.368	9.368	0.000	98	148749	50.0	45.2	
75 Ethyl methacrylate	69	9.429	9.429	0.000	90	139135	50.0	47.5	
76 1,1,2-Trichloroethane	97	9.557	9.557	0.000	95	99554	50.0	44.0	
77 Tetrachloroethene	164	9.630	9.630	0.000	93	114367	50.0	44.4	
78 1,3-Dichloropropane	76	9.721	9.721	0.000	96	180144	50.0	45.7	
79 2-Hexanone	43	9.782	9.782	0.000	98	175518	100.0	92.5	
81 Chlorodibromomethane	129	9.940	9.940	0.000	91	90512	50.0	41.0	
82 Ethylene Dibromide	107	10.050	10.050	0.000	97	103437	50.0	45.0	
84 Chlorobenzene	112	10.536	10.536	0.000	92	372935	50.0	45.8	
86 1,1,1,2-Tetrachloroethane	131	10.627	10.627	0.000	41	106285	50.0	40.8	
87 Ethylbenzene	106	10.634	10.634	0.000	98	212467	50.0	44.6	
88 m-Xylene & p-Xylene	106	10.767	10.767	0.000	99	256508	50.0	44.1	
89 o-Xylene	106	11.151	11.151	0.000	97	251554	50.0	44.9	
90 Styrene	104	11.169	11.169	0.000	94	408954	50.0	46.0	
91 Bromoform	173	11.357	11.357	0.000	93	46008	50.0	40.3	
93 Isopropylbenzene	105	11.516	11.516	0.000	97	698262	50.0	47.2	
95 Bromobenzene	156	11.832	11.832	0.000	94	146667	50.0	47.6	
96 1,1,2,2-Tetrachloroethane	83	11.838	11.838	0.000	69	103639	50.0	43.2	
97 trans-1,4-Dichloro-2-buten	53	11.875	11.875	0.000	62	41700	50.0	43.3	
98 1,2,3-Trichloropropane	110	11.887	11.887	0.000	89	50464	50.0	49.0	
99 N-Propylbenzene	120	11.929	11.929	0.000	99	198886	50.0	47.2	
100 2-Chlorotoluene	126	12.021	12.021	0.000	96	162457	50.0	48.6	
102 1,3,5-Trimethylbenzene	105	12.118	12.118	0.000	95	591676	50.0	47.9	
103 4-Chlorotoluene	126	12.148	12.148	0.000	99	169075	50.0	48.1	
104 tert-Butylbenzene	119	12.428	12.428	0.000	93	510871	50.0	47.3	
106 1,2,4-Trimethylbenzene	105	12.489	12.489	0.000	98	606964	50.0	50.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
108 sec-Butylbenzene	105	12.653	12.653	0.000	96	735949	50.0	48.8	
109 1,3-Dichlorobenzene	146	12.775	12.775	0.000	95	281002	50.0	48.6	
110 4-Isopropyltoluene	119	12.811	12.811	0.000	96	632360	50.0	48.1	
111 1,4-Dichlorobenzene	146	12.878	12.878	0.000	89	262231	50.0	45.7	
116 n-Butylbenzene	91	13.219	13.219	0.000	97	525363	50.0	47.5	
117 1,2-Dichlorobenzene	146	13.237	13.237	0.000	90	245233	50.0	46.8	
118 1,2-Dibromo-3-Chloropropan	75	14.022	14.028	-0.006	68	15668	50.0	44.8	
122 1,2,4-Trichlorobenzene	180	14.849	14.849	0.000	94	118739	50.0	46.4	
123 Hexachlorobutadiene	225	14.989	14.989	0.000	95	71651	50.0	44.7	
124 Naphthalene	128	15.117	15.117	0.000	97	235529	50.0	42.9	
125 1,2,3-Trichlorobenzene	180	15.348	15.348	0.000	92	90627	50.0	45.2	
S 131 Xylenes, Total	106				0		100.0	89.0	
S 130 1,2-Dichloroethene, Total	96				0		100.0	91.5	
S 132 1,3-Dichloropropene, Total	1				0		100.0	87.7	
S 154 Total BTEX	1				0		250.0	225.5	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

VOACRPRI_00021	Amount Added: 6.00	Units: uL	
VOAVAPRI_00028	Amount Added: 2.00	Units: uL	
VOA8260VOAPRI_00376	Amount Added: 2.00	Units: uL	
VOA8260SURR_00100	Amount Added: 2.00	Units: uL	
voaWKetmix1st_00019	Amount Added: 2.00	Units: uL	
VOA8260INT_00100	Amount Added: 2.00	Units: uL	Run Reagent

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101812.D

Injection Date: 18-Oct-2019 16:37:30

Instrument ID: CHHP6

Operator ID: 433269

Lims ID: ICIS VSTD10

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

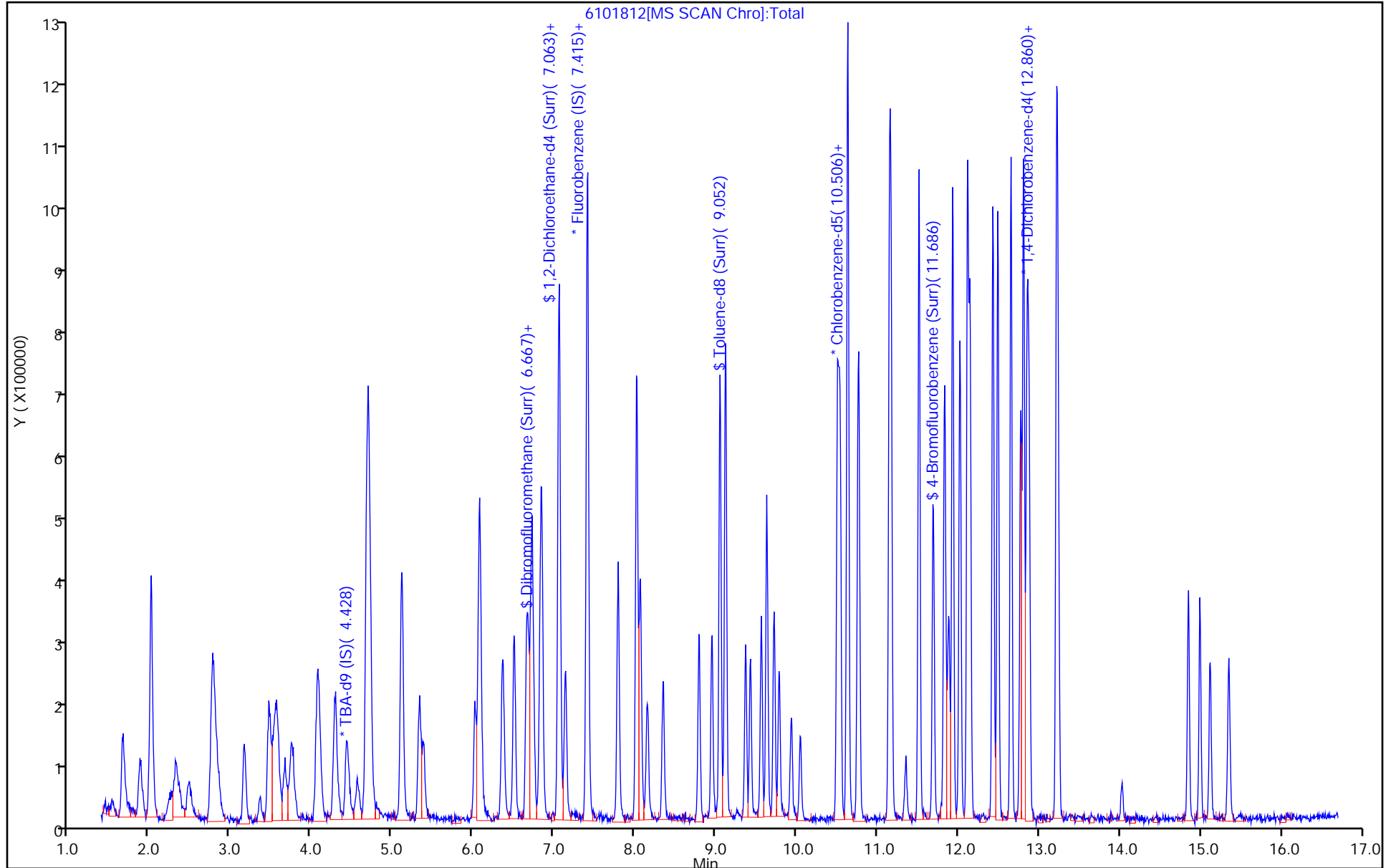
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C_D ICAL

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Pittsburgh

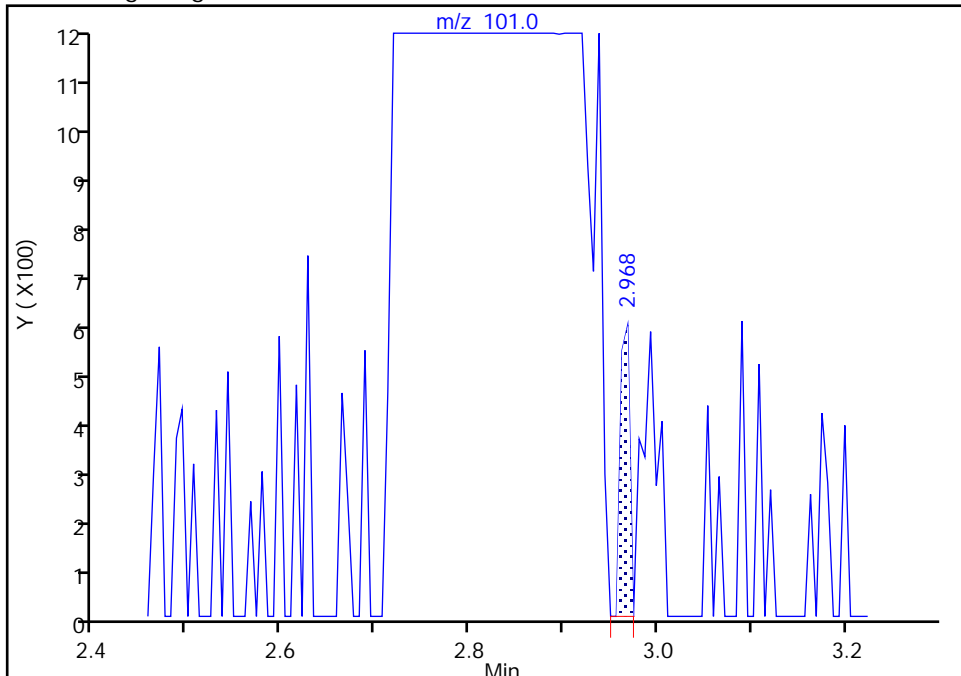
Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101812.D
Injection Date: 18-Oct-2019 16:37:30 Instrument ID: CHHP6
Lims ID: ICIS VSTD10
Client ID:
Operator ID: 433269 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

18 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

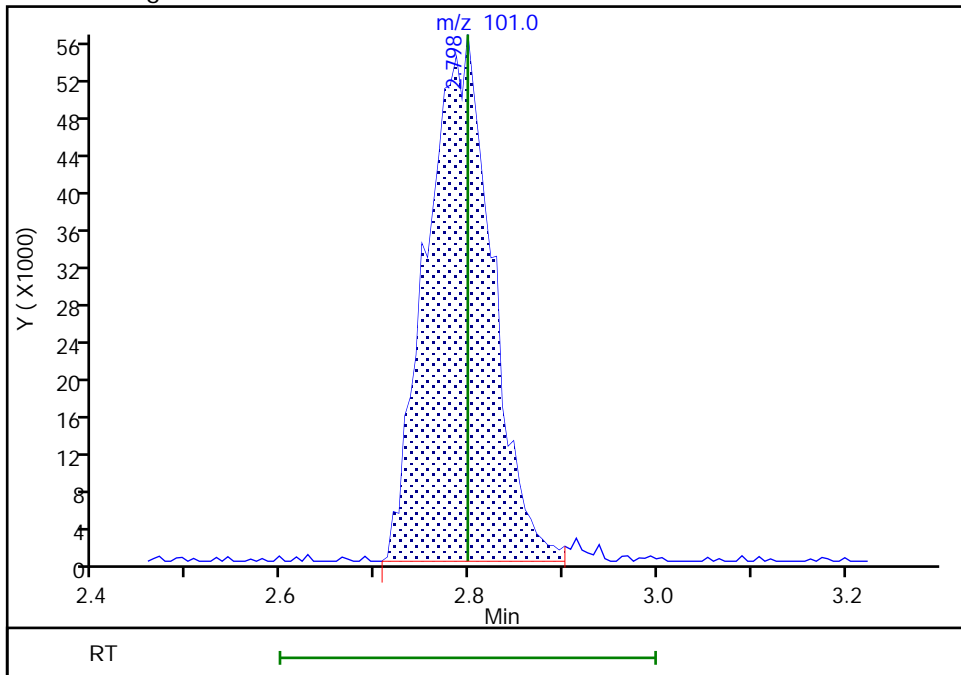
RT: 2.97
Area: 402
Amount: 0.122010
Amount Units: ng

Processing Integration Results



RT: 2.80
Area: 270020
Amount: 43.993266
Amount Units: ng

Manual Integration Results



Eurofins TestAmerica, Pittsburgh

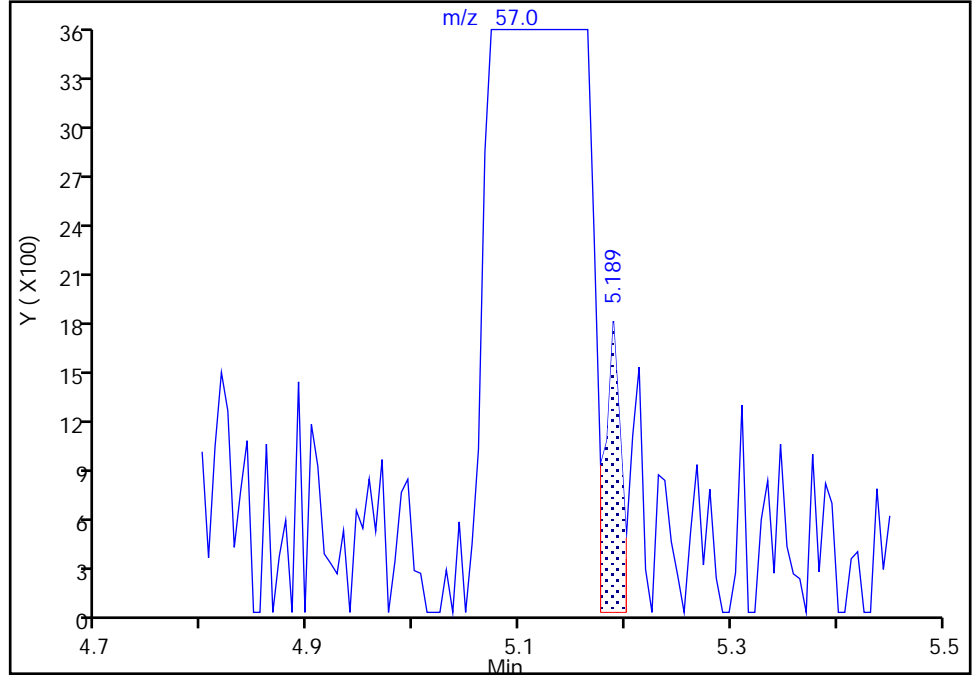
Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101812.D
Injection Date: 18-Oct-2019 16:37:30 Instrument ID: CHHP6
Lims ID: ICIS VSTD10
Client ID:
Operator ID: 433269 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

36 Hexane, CAS: 110-54-3

Signal: 1

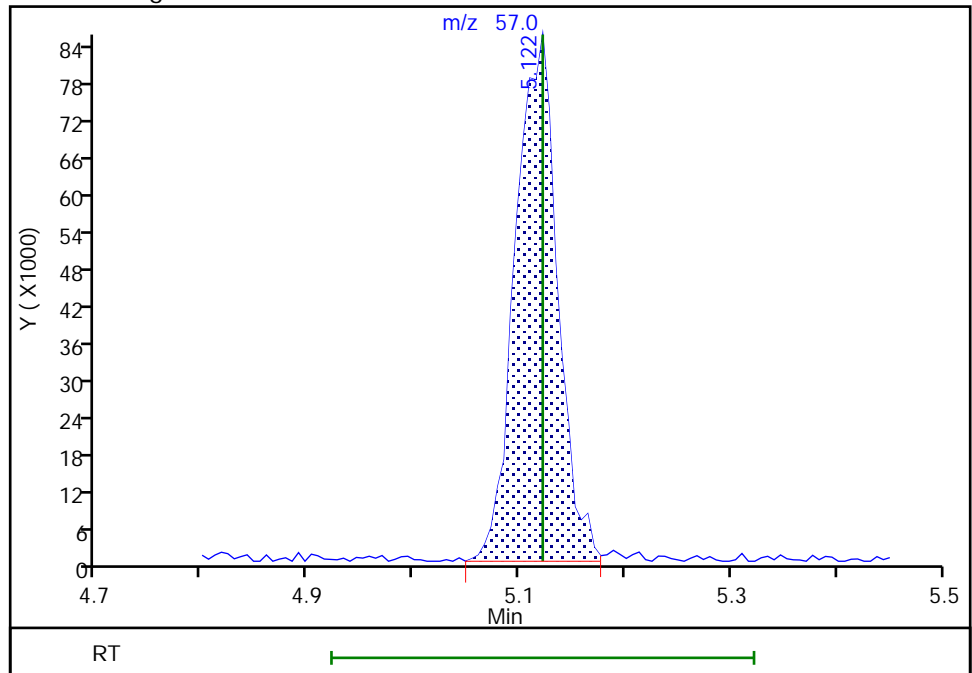
RT: 5.19
Area: 1939
Amount: 0.437464
Amount Units: ng

Processing Integration Results



RT: 5.12
Area: 237306
Amount: 44.323230
Amount Units: ng

Manual Integration Results



Eurofins TestAmerica, Pittsburgh

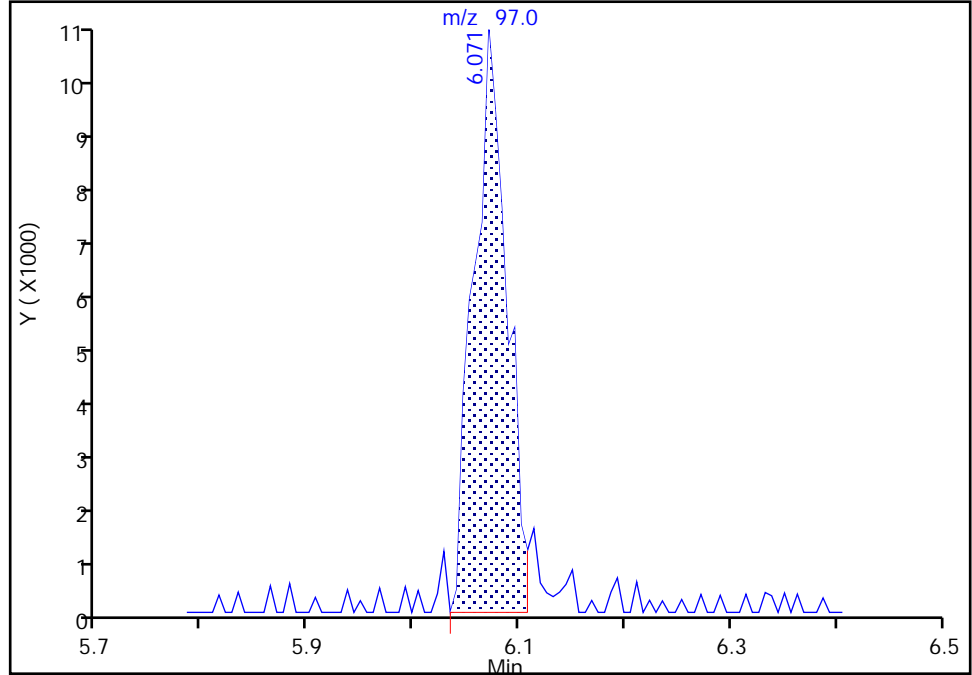
Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101812.D
Injection Date: 18-Oct-2019 16:37:30 Instrument ID: CHHP6
Lims ID: ICIS VSTD10
Client ID:
Operator ID: 433269 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

42 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

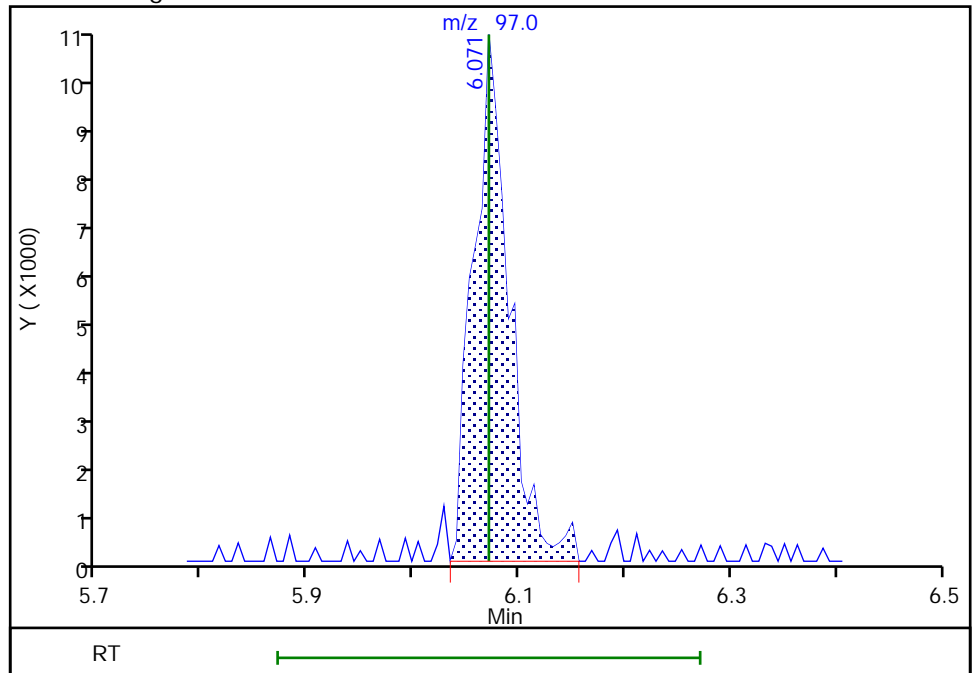
RT: 6.07
Area: 23350
Amount: 36.664524
Amount Units: ng

Processing Integration Results



RT: 6.07
Area: 24948
Amount: 38.775521
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 18-Oct-2019 18:00:31
Audit Action: Manually Integrated

Eurofins TestAmerica, Pittsburgh
Target Compound Quantitation Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101813.D
 Lims ID: IC VSTD15
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 18-Oct-2019 17:02:30 ALS Bottle#: 7 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-0029183-007
 Misc. Info.: ic vstd15
 Operator ID: 433269 Instrument ID: CHHP6
 Sublist: chrom-MSVOA_LL_CHHP6*sub121
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C_D ICAL
 Last Update: 19-Oct-2019 10:17:12 Calib Date: 18-Oct-2019 18:47:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101817.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX0306

First Level Reviewer: bowieh

Date: 18-Oct-2019 17:33:55

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.431	4.431	0.000	96	174059	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.406	7.406	0.000	89	528321	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.508	10.508	0.000	89	122570	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.850	12.850	0.000	95	188199	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.682	6.682	0.000	93	186247	75.0	75.0	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	7.053	7.053	0.000	92	290625	75.0	76.6	
\$ 7 Toluene-d8 (Surr)	98	9.054	9.054	0.000	95	735915	75.0	82.5	
\$ 8 4-Bromofluorobenzene (Surr	95	11.688	11.688	0.000	0	290528	75.0	78.9	
11 Dichlorodifluoromethane	85	1.663	1.663	0.000	98	414157	75.0	77.4	
12 Chloromethane	50	1.870	1.870	0.000	99	331904	75.0	74.3	
13 Vinyl chloride	62	2.003	2.003	0.000	70	291524	75.0	76.9	
14 Butadiene	39	2.016	2.016	0.000	98	326243	75.0	75.6	
15 Bromomethane	94	2.326	2.326	0.000	94	122552	75.0	76.6	
16 Chloroethane	64	2.478	2.478	0.000	97	142271	75.0	78.4	
17 Dichlorofluoromethane	67	2.776	2.776	0.000	96	409910	75.0	77.4	
18 Trichlorofluoromethane	101	2.788	2.788	0.000	95	444225	75.0	73.5	
20 Ethyl ether	59	3.171	3.171	0.000	95	177120	75.0	75.4	
21 Acrolein	56	3.372	3.372	0.000	98	62368	175.0	186.3	
22 1,1-Dichloroethene	96	3.470	3.470	0.000	94	193813	75.0	76.6	
23 1,1,2-Trichloro-1,2,2-trif	101	3.561	3.561	0.000	93	230963	75.0	74.7	
24 Acetone	43	3.585	3.585	0.000	98	211335	150.0	141.7	
25 Iodomethane	142	3.670	3.670	0.000	99	299442	75.0	73.2	
26 Carbon disulfide	76	3.755	3.755	0.000	100	515270	75.0	75.1	
29 3-Chloro-1-propene	76	4.078	4.078	0.000	87	120441	75.0	81.0	
30 Methyl acetate	43	4.096	4.096	0.000	98	300004	150.0	150.3	
31 Methylene Chloride	84	4.291	4.291	0.000	97	225378	75.0	75.9	
32 2-Methyl-2-propanol	59	4.565	4.565	0.000	94	138255	750.0	767.6	
33 Acrylonitrile	53	4.680	4.680	0.000	97	746781	750.0	739.1	
34 trans-1,2-Dichloroethene	96	4.692	4.692	0.000	67	224056	75.0	73.6	
35 Methyl tert-butyl ether	73	4.717	4.717	0.000	97	477945	75.0	72.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	5.112	5.112	0.000	94	401978	75.0	76.2	
37 1,1-Dichloroethane	63	5.331	5.331	0.000	97	404164	75.0	76.0	
38 Vinyl acetate	43	5.386	5.386	0.000	98	328173	75.0	73.0	
42 2,2-Dichloropropane	97	6.079	6.079	0.000	64	47059	75.0	74.2	
43 cis-1,2-Dichloroethene	96	6.085	6.085	0.000	86	241568	75.0	76.3	
44 2-Butanone (MEK)	43	6.092	6.092	0.000	87	222359	150.0	148.9	
48 Chlorobromomethane	128	6.359	6.359	0.000	95	106272	75.0	73.6	
49 Tetrahydrofuran	42	6.371	6.371	0.000	0	102813	150.0	143.1	
50 Chloroform	83	6.505	6.505	0.000	98	395570	75.0	72.0	
51 1,1,1-Trichloroethane	97	6.663	6.663	0.000	97	360286	75.0	77.4	
52 Cyclohexane	56	6.724	6.724	0.000	94	489868	75.0	77.2	
53 Carbon tetrachloride	117	6.828	6.828	0.000	92	291231	75.0	73.9	
54 1,1-Dichloropropene	75	6.846	6.846	0.000	89	327817	75.0	77.4	
55 Isobutyl alcohol	41	7.059	7.059	0.000	55	111038	1875.0	1751.5	
56 Benzene	78	7.065	7.065	0.000	97	817089	75.0	74.4	
57 1,2-Dichloroethane	62	7.144	7.144	0.000	98	359947	75.0	72.3	
59 n-Heptane	43	7.418	7.418	0.000	91	388638	75.0	75.6	
61 Trichloroethene	130	7.789	7.789	0.000	94	260402	75.0	76.6	
63 Methylcyclohexane	83	8.026	8.026	0.000	95	436475	75.0	76.8	
64 1,2-Dichloropropane	63	8.063	8.063	0.000	85	197997	75.0	75.5	
67 Dibromomethane	93	8.154	8.154	0.000	93	113545	75.0	72.7	
65 1,4-Dioxane	88	8.148	8.148	0.000	43	32249	1500.0	1670.7	
68 Dichlorobromomethane	83	8.348	8.348	0.000	96	249608	75.0	75.3	
71 cis-1,3-Dichloropropene	75	8.793	8.793	0.000	88	265992	75.0	77.8	
72 4-Methyl-2-pentanone (MIBK)	43	8.951	8.951	0.000	95	335440	150.0	161.5	
73 Toluene	91	9.121	9.121	0.000	98	924284	75.0	83.8	
74 trans-1,3-Dichloropropene	75	9.370	9.370	0.000	97	233058	75.0	77.4	
75 Ethyl methacrylate	69	9.431	9.431	0.000	92	207588	75.0	78.7	
76 1,1,2-Trichloroethane	97	9.565	9.565	0.000	94	159396	75.0	78.3	
77 Tetrachloroethene	164	9.632	9.632	0.000	93	193051	75.0	83.3	
78 1,3-Dichloropropane	76	9.723	9.723	0.000	94	273352	75.0	77.1	
79 2-Hexanone	43	9.784	9.784	0.000	97	281696	150.0	165.0	
81 Chlorodibromomethane	129	9.936	9.936	0.000	91	156977	75.0	79.1	
82 Ethylene Dibromide	107	10.046	10.046	0.000	95	167550	75.0	81.0	
84 Chlorobenzene	112	10.539	10.539	0.000	91	592649	75.0	81.0	
86 1,1,1,2-Tetrachloroethane	131	10.630	10.630	0.000	83	190168	75.0	81.2	
87 Ethylbenzene	106	10.636	10.636	0.000	98	357928	75.0	83.4	
88 m-Xylene & p-Xylene	106	10.770	10.770	0.000	100	426523	75.0	81.4	
89 o-Xylene	106	11.147	11.147	0.000	97	413511	75.0	82.0	
90 Styrene	104	11.171	11.171	0.000	94	663824	75.0	82.9	
91 Bromoform	173	11.354	11.354	0.000	95	78756	75.0	76.7	
93 Isopropylbenzene	105	11.518	11.518	0.000	97	1117621	75.0	83.9	
95 Bromobenzene	156	11.834	11.834	0.000	98	223139	75.0	75.1	
96 1,1,2,2-Tetrachloroethane	83	11.834	11.834	0.000	68	166170	75.0	77.0	
97 trans-1,4-Dichloro-2-buten	53	11.871	11.871	0.000	69	71074	75.0	76.4	
98 1,2,3-Trichloropropane	110	11.889	11.889	0.000	87	76646	75.0	77.0	
99 N-Propylbenzene	120	11.932	11.932	0.000	98	342049	75.0	84.1	
100 2-Chlorotoluene	126	12.023	12.023	0.000	95	263284	75.0	81.5	
102 1,3,5-Trimethylbenzene	105	12.114	12.114	0.000	93	967651	75.0	81.2	
103 4-Chlorotoluene	126	12.145	12.145	0.000	99	252752	75.0	74.5	
104 tert-Butylbenzene	119	12.430	12.430	0.000	93	838722	75.0	80.4	
106 1,2,4-Trimethylbenzene	105	12.491	12.491	0.000	98	965964	75.0	82.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
108 sec-Butylbenzene	105	12.649	12.649	0.000	96	1213698	75.0	83.4	
109 1,3-Dichlorobenzene	146	12.771	12.771	0.000	96	441862	75.0	79.2	
110 4-Isopropyltoluene	119	12.808	12.808	0.000	97	1054964	75.0	83.1	
111 1,4-Dichlorobenzene	146	12.875	12.875	0.000	91	452016	75.0	81.5	
116 n-Butylbenzene	91	13.215	13.215	0.000	97	884909	75.0	82.8	
117 1,2-Dichlorobenzene	146	13.240	13.240	0.000	92	393919	75.0	77.8	
118 1,2-Dibromo-3-Chloropropan	75	14.024	14.030	-0.006	67	26965	75.0	79.9	
122 1,2,4-Trichlorobenzene	180	14.852	14.852	0.000	94	187924	75.0	76.1	
123 Hexachlorobutadiene	225	14.998	14.998	0.000	97	116416	75.0	75.3	
124 Naphthalene	128	15.113	15.113	0.000	98	406921	75.0	76.7	
125 1,2,3-Trichlorobenzene	180	15.357	15.357	0.000	94	155056	75.0	80.1	
S 131 Xylenes, Total	106				0		150.0	163.5	
S 130 1,2-Dichloroethene, Total	96				0		150.0	149.8	
S 132 1,3-Dichloropropene, Total	1				0		150.0	155.2	
S 154 Total BTEX	1				0		375.0	405.1	

Reagents:

VOAACRPRI_00021	Amount Added: 7.00	Units: uL	
VOAVAPRI_00028	Amount Added: 3.00	Units: uL	
VOA8260VOAPRI_00376	Amount Added: 3.00	Units: uL	
VOA8260SURR_00100	Amount Added: 3.00	Units: uL	
voaWKetmix1st_00019	Amount Added: 3.00	Units: uL	
VOA8260INT_00100	Amount Added: 2.00	Units: uL	Run Reagent

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101813.D

Injection Date: 18-Oct-2019 17:02:30

Instrument ID: CHHP6

Operator ID: 433269

Lims ID: IC VSTD15

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

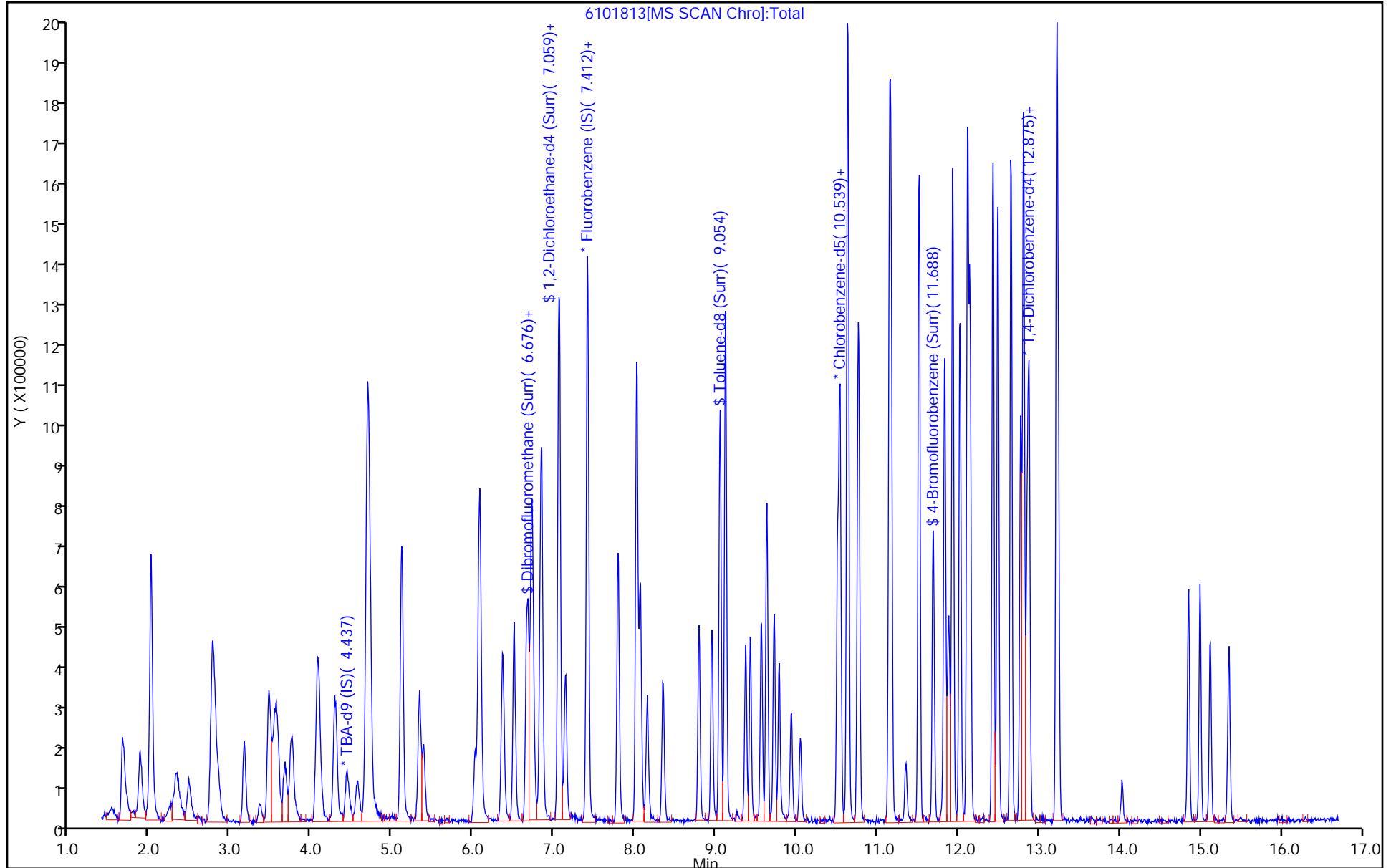
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C_D ICAL

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Pittsburgh
Target Compound Quantitation Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101814.D
 Lims ID: IC VSTD20
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 18-Oct-2019 17:29:30 ALS Bottle#: 8 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-0029183-008
 Misc. Info.: ic vstd20
 Operator ID: 433269 Instrument ID: CHHP6
 Sublist: chrom-MSVOA_LL_CHHP6*sub121
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C_D ICAL
 Last Update: 19-Oct-2019 10:17:27 Calib Date: 18-Oct-2019 18:47:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101817.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX0306

First Level Reviewer: bowieh

Date: 18-Oct-2019 17:59:05

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.441	4.431	0.010	92	181873	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.404	7.406	-0.002	97	539289	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.506	10.508	-0.002	89	141068	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.848	12.850	-0.002	96	215276	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.686	6.682	0.004	92	242644	100.0	95.8	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	7.051	7.053	-0.002	91	375462	100.0	97.0	
\$ 7 Toluene-d8 (Surr)	98	9.052	9.054	-0.002	95	995725	100.0	97.0	
\$ 8 4-Bromofluorobenzene (Surr	95	11.686	11.688	-0.002	0	413033	100.0	97.5	
11 Dichlorodifluoromethane	85	1.661	1.663	-0.002	99	555567	100.0	101.7	
12 Chloromethane	50	1.868	1.870	-0.002	98	472361	100.0	103.6	
13 Vinyl chloride	62	2.002	2.003	-0.001	78	400789	100.0	103.6	
14 Butadiene	39	2.008	2.016	-0.008	90	437075	100.0	99.3	
15 Bromomethane	94	2.324	2.326	-0.002	94	170357	100.0	104.3	
16 Chloroethane	64	2.470	2.478	-0.008	95	186008	100.0	101.3	
17 Dichlorofluoromethane	67	2.774	2.776	-0.002	97	566028	100.0	104.7	
18 Trichlorofluoromethane	101	2.786	2.788	-0.002	98	638175	100.0	103.4	
20 Ethyl ether	59	3.164	3.171	-0.007	95	243225	100.0	101.5	
21 Acrolein	56	3.358	3.372	-0.014	99	64567	200.0	188.9	
22 1,1-Dichloroethene	96	3.462	3.470	-0.008	92	262243	100.0	101.6	
23 1,1,2-Trichloro-1,2,2-trif	101	3.547	3.561	-0.014	94	325928	100.0	103.2	
24 Acetone	43	3.583	3.585	-0.002	96	274864	200.0	180.6	
25 Iodomethane	142	3.675	3.670	0.005	98	437464	100.0	104.7	
26 Carbon disulfide	76	3.754	3.755	-0.001	100	761660	100.0	108.7	
29 3-Chloro-1-propene	76	4.070	4.078	-0.008	85	166718	100.0	109.8	
30 Methyl acetate	43	4.094	4.096	-0.002	98	421710	200.0	206.9	
31 Methylene Chloride	84	4.289	4.291	-0.002	98	318354	100.0	106.2	
32 2-Methyl-2-propanol	59	4.569	4.565	0.004	94	211546	1000.0	1124.0	
33 Acrylonitrile	53	4.678	4.680	-0.002	98	1069868	1000.0	1037.3	
34 trans-1,2-Dichloroethene	96	4.697	4.692	0.005	71	326518	100.0	105.0	
35 Methyl tert-butyl ether	73	4.721	4.717	0.004	98	703318	100.0	104.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	5.110	5.112	-0.002	92	570409	100.0	105.9	
37 1,1-Dichloroethane	63	5.329	5.331	-0.002	97	563425	100.0	103.7	
38 Vinyl acetate	43	5.384	5.386	-0.002	98	447686	100.0	97.6	
42 2,2-Dichloropropane	97	6.078	6.079	-0.001	63	63869	100.0	98.7	
43 cis-1,2-Dichloroethene	96	6.078	6.085	-0.007	85	339965	100.0	105.2	
44 2-Butanone (MEK)	43	6.090	6.092	-0.002	99	286541	200.0	187.9	
48 Chlorobromomethane	128	6.357	6.359	-0.002	94	143576	100.0	97.5	
49 Tetrahydrofuran	42	6.370	6.371	-0.001	0	141786	200.0	195.4	
50 Chloroform	83	6.503	6.505	-0.002	98	565653	100.0	100.9	
51 1,1,1-Trichloroethane	97	6.662	6.663	-0.001	98	517635	100.0	108.9	
52 Cyclohexane	56	6.728	6.724	0.004	93	682642	100.0	105.3	
53 Carbon tetrachloride	117	6.832	6.828	0.004	95	428605	100.0	106.5	
54 1,1-Dichloropropene	75	6.850	6.846	0.004	87	449467	100.0	104.0	
55 Isobutyl alcohol	41	7.057	7.059	-0.002	71	179313	2500.0	2770.9	
56 Benzene	78	7.063	7.065	-0.002	97	1166707	100.0	104.1	
57 1,2-Dichloroethane	62	7.136	7.144	-0.008	98	516267	100.0	101.6	
59 n-Heptane	43	7.416	7.418	-0.002	90	541326	100.0	103.1	
61 Trichloroethene	130	7.787	7.789	-0.002	95	349285	100.0	100.7	
63 Methylcyclohexane	83	8.024	8.026	-0.002	91	631360	100.0	108.8	
64 1,2-Dichloropropane	63	8.061	8.063	-0.002	90	271054	100.0	101.3	
65 1,4-Dioxane	88	8.146	8.148	-0.002	44	38680	2000.0	1941.5	
67 Dibromomethane	93	8.152	8.154	-0.002	95	168867	100.0	105.9	
68 Dichlorobromomethane	83	8.347	8.348	-0.001	98	361688	100.0	106.9	
71 cis-1,3-Dichloropropene	75	8.791	8.793	-0.002	88	383076	100.0	109.7	
72 4-Methyl-2-pentanone (MIBK)	43	8.949	8.951	-0.002	96	483898	200.0	202.4	
73 Toluene	91	9.119	9.121	-0.002	98	1290061	100.0	101.7	
74 trans-1,3-Dichloropropene	75	9.369	9.370	-0.001	98	346539	100.0	99.5	
75 Ethyl methacrylate	69	9.423	9.431	-0.008	90	322148	100.0	106.1	
76 1,1,2-Trichloroethane	97	9.563	9.565	-0.002	95	241056	100.0	102.9	
77 Tetrachloroethene	164	9.630	9.632	-0.002	91	268636	100.0	100.7	
78 1,3-Dichloropropane	76	9.728	9.723	0.005	96	416935	100.0	102.2	
79 2-Hexanone	43	9.782	9.784	-0.002	98	393133	200.0	200.1	
81 Chlorodibromomethane	129	9.934	9.936	-0.002	90	226833	100.0	99.3	
82 Ethylene Dibromide	107	10.044	10.046	-0.002	99	243221	100.0	102.2	
84 Chlorobenzene	112	10.537	10.539	-0.002	91	859970	100.0	102.1	
86 1,1,1,2-Tetrachloroethane	131	10.628	10.630	-0.002	89	273113	100.0	101.3	
87 Ethylbenzene	106	10.634	10.636	-0.002	99	495415	100.0	100.3	
88 m-Xylene & p-Xylene	106	10.768	10.770	-0.002	98	633528	100.0	105.1	
89 o-Xylene	106	11.145	11.147	-0.002	97	591730	100.0	102.0	
90 Styrene	104	11.169	11.171	-0.002	94	934145	100.0	101.3	
91 Bromoform	173	11.352	11.354	-0.002	94	118994	100.0	100.7	
93 Isopropylbenzene	105	11.516	11.518	-0.002	97	1562124	100.0	101.9	
95 Bromobenzene	156	11.832	11.834	-0.002	94	332435	100.0	97.8	
96 1,1,2,2-Tetrachloroethane	83	11.832	11.834	-0.002	70	254566	100.0	102.4	
97 trans-1,4-Dichloro-2-buten	53	11.869	11.871	-0.002	71	106571	100.0	100.1	
98 1,2,3-Trichloropropane	110	11.893	11.889	0.004	87	104543	100.0	91.9	
99 N-Propylbenzene	120	11.930	11.932	-0.002	97	475332	100.0	102.2	
100 2-Chlorotoluene	126	12.021	12.023	-0.002	95	363547	100.0	98.4	
102 1,3,5-Trimethylbenzene	105	12.118	12.114	0.004	95	1350221	100.0	99.1	
103 4-Chlorotoluene	126	12.149	12.145	0.004	99	377541	100.0	97.3	
104 tert-Butylbenzene	119	12.429	12.430	-0.001	93	1179528	100.0	98.9	
106 1,2,4-Trimethylbenzene	105	12.489	12.491	-0.002	98	1329123	100.0	99.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
108 sec-Butylbenzene	105	12.654	12.649	0.005	96	1689295	100.0	101.5	
109 1,3-Dichlorobenzene	146	12.775	12.771	0.004	94	620001	100.0	97.2	
110 4-Isopropyltoluene	119	12.806	12.808	-0.002	96	1461259	100.0	100.6	
111 1,4-Dichlorobenzene	146	12.873	12.875	-0.002	88	625938	100.0	98.7	
116 n-Butylbenzene	91	13.220	13.215	0.005	97	1270720	100.0	104.0	
117 1,2-Dichlorobenzene	146	13.238	13.240	-0.002	93	571001	100.0	98.6	
118 1,2-Dibromo-3-Chloropropan	75	14.023	14.030	-0.007	72	39810	100.0	103.2	
122 1,2,4-Trichlorobenzene	180	14.850	14.852	-0.002	92	290263	100.0	102.7	
123 Hexachlorobutadiene	225	14.996	14.998	-0.002	96	165684	100.0	93.7	
124 Naphthalene	128	15.118	15.113	0.005	98	632522	100.0	104.3	
125 1,2,3-Trichlorobenzene	180	15.349	15.357	-0.008	93	224716	100.0	101.5	
S 131 Xylenes, Total	106				0		200.0	207.1	
S 130 1,2-Dichloroethene, Total	96				0		200.0	210.2	
S 132 1,3-Dichloropropene, Total	1				0		200.0	209.2	
S 154 Total BTEX	1				0		500.0	513.1	

Reagents:

VOAACRPRI_00021	Amount Added: 8.00	Units: uL	
VOAVAPRI_00028	Amount Added: 4.00	Units: uL	
VOA8260VOAPRI_00376	Amount Added: 4.00	Units: uL	
VOA8260SURR_00100	Amount Added: 4.00	Units: uL	
voaWKetmix1st_00019	Amount Added: 4.00	Units: uL	
VOA8260INT_00100	Amount Added: 2.00	Units: uL	Run Reagent

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101814.D

Injection Date: 18-Oct-2019 17:29:30

Instrument ID: CHHP6

Operator ID: 433269

Lims ID: IC VSTD20

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

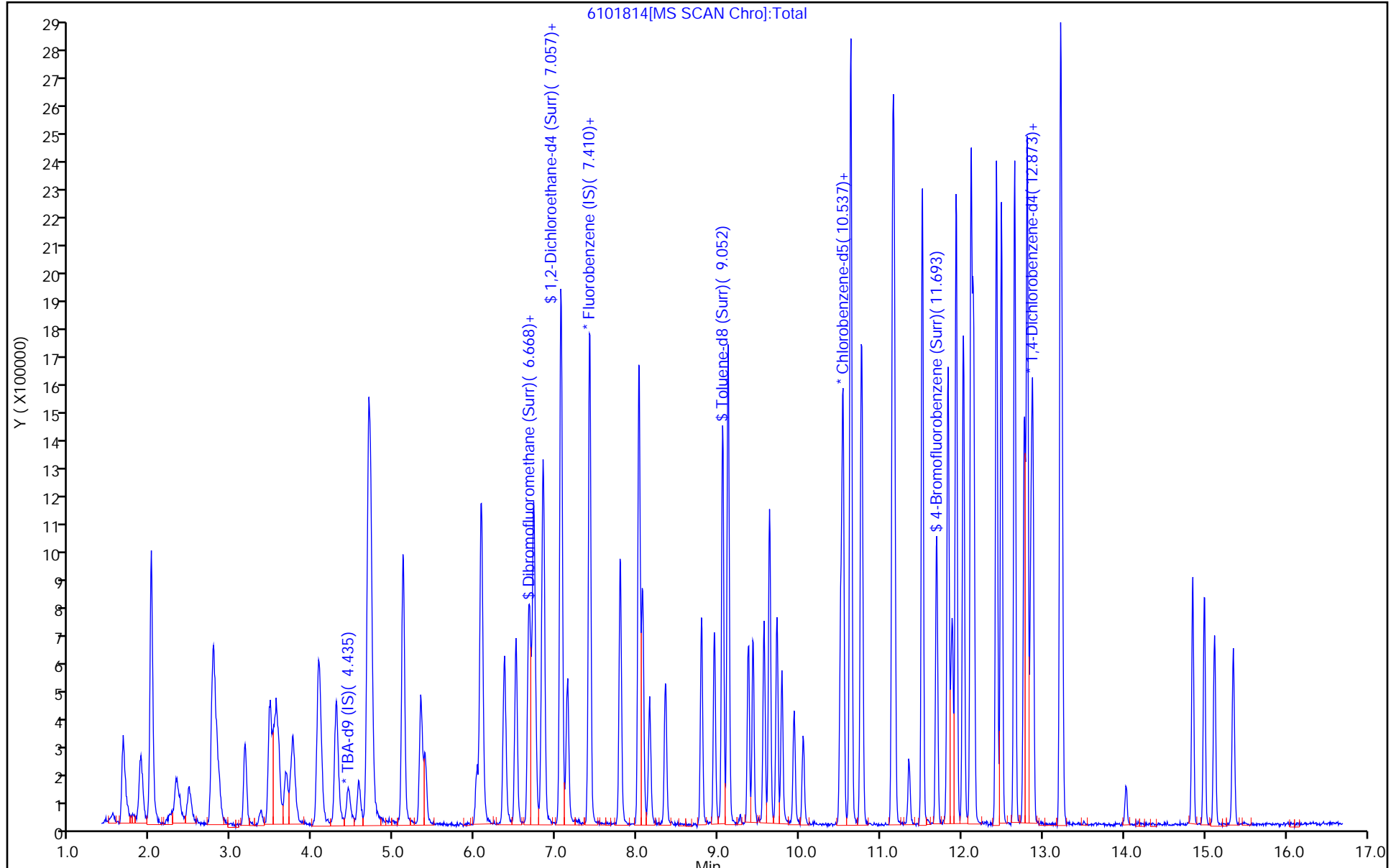
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C_D ICAL

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Pittsburgh
Target Compound Quantitation Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101815.D
 Lims ID: IC VSTD35
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 18-Oct-2019 17:55:30 ALS Bottle#: 9 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-0029183-009
 Misc. Info.: ic vstd35
 Operator ID: 433269 Instrument ID: CHHP6
 Sublist: chrom-MSVOA_LL_CHHP6*sub121
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C_D ICAL
 Last Update: 19-Oct-2019 10:17:38 Calib Date: 18-Oct-2019 18:47:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101817.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX0306

First Level Reviewer: bowieh

Date: 19-Oct-2019 09:41:51

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.447	4.431	0.016	92	196693	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.403	7.406	-0.003	97	510516	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.512	10.508	0.004	89	131035	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.848	12.850	-0.002	95	207178	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.685	6.682	0.003	93	412976	175.0	172.2	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	7.057	7.053	0.004	94	645002	175.0	176.0	
\$ 7 Toluene-d8 (Surr)	98	9.052	9.054	-0.002	95	1596337	175.0	167.5	
\$ 8 4-Bromofluorobenzene (Surr	95	11.686	11.688	-0.002	0	683547	175.0	173.7	
11 Dichlorodifluoromethane	85	1.667	1.663	0.004	99	872094	175.0	168.6	
12 Chloromethane	50	1.873	1.870	0.003	99	757194	175.0	175.5	
13 Vinyl chloride	62	1.995	2.003	-0.008	78	617040	175.0	168.5	
14 Butadiene	39	2.007	2.016	-0.009	95	695033	175.0	166.7	
15 Bromomethane	94	2.324	2.326	-0.002	92	250051	175.0	161.8	
16 Chloroethane	64	2.464	2.478	-0.014	97	296841	175.0	172.6	
17 Dichlorofluoromethane	67	2.768	2.776	-0.008	94	852522	175.0	166.5	
18 Trichlorofluoromethane	101	2.780	2.788	-0.008	85	983308	175.0	168.3	
20 Ethyl ether	59	3.163	3.171	-0.008	94	403807	175.0	178.0	
21 Acrolein	56	3.352	3.372	-0.020	96	78077	225.0	241.3	
22 1,1-Dichloroethene	96	3.461	3.470	-0.009	93	425461	175.0	174.1	
23 1,1,2-Trichloro-1,2,2-trif	101	3.540	3.561	-0.021	96	502248	175.0	168.0	
24 Acetone	43	3.583	3.585	-0.002	98	485416	350.0	336.9	
25 Iodomethane	142	3.668	3.670	-0.002	97	645419	175.0	163.2	
26 Carbon disulfide	76	3.753	3.755	-0.002	99	1165183	175.0	175.7	
29 3-Chloro-1-propene	76	4.070	4.078	-0.008	84	249009	175.0	173.3	
30 Methyl acetate	43	4.100	4.096	0.004	98	692252	350.0	358.8	
31 Methylene Chloride	84	4.289	4.291	-0.002	98	481167	175.0	171.3	
32 2-Methyl-2-propanol	59	4.568	4.565	0.003	93	339169	1750.0	1666.3	
33 Acrylonitrile	53	4.684	4.680	0.004	98	1708565	1750.0	1749.9	
34 trans-1,2-Dichloroethene	96	4.696	4.692	0.004	95	483536	175.0	164.3	
35 Methyl tert-butyl ether	73	4.714	4.717	-0.003	98	1153092	175.0	181.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	5.110	5.112	-0.002	92	867750	175.0	170.2	
37 1,1-Dichloroethane	63	5.335	5.331	0.004	97	882317	175.0	171.6	
38 Vinyl acetate	43	5.384	5.386	-0.002	98	800345	175.0	184.3	
42 2,2-Dichloropropane	97	6.083	6.079	0.004	66	107767	175.0	175.9	
43 cis-1,2-Dichloroethene	96	6.077	6.085	-0.008	85	543293	175.0	177.5	
44 2-Butanone (MEK)	43	6.089	6.092	-0.003	99	509126	350.0	352.7	
48 Chlorobromomethane	128	6.357	6.359	-0.002	96	243705	175.0	174.7	
49 Tetrahydrofuran	42	6.375	6.371	0.004	0	247455	350.0	365.1	
50 Chloroform	83	6.503	6.505	-0.002	98	889111	175.0	167.5	
51 1,1,1-Trichloroethane	97	6.661	6.663	-0.002	97	806565	175.0	179.3	
52 Cyclohexane	56	6.722	6.724	-0.002	94	1060030	175.0	172.8	
53 Carbon tetrachloride	117	6.831	6.828	0.003	97	680595	175.0	178.7	
54 1,1-Dichloropropene	75	6.844	6.846	-0.002	87	693597	175.0	169.5	
55 Isobutyl alcohol	41	7.057	7.059	-0.002	79	285957	4375.0	4667.9	
56 Benzene	78	7.063	7.065	-0.002	98	1758649	175.0	165.7	
57 1,2-Dichloroethane	62	7.142	7.144	-0.002	99	832524	175.0	173.1	
59 n-Heptane	43	7.416	7.418	-0.002	91	846274	175.0	170.3	
61 Trichloroethene	130	7.793	7.789	0.004	96	553459	175.0	168.6	
63 Methylcyclohexane	83	8.024	8.026	-0.002	95	952974	175.0	173.5	
64 1,2-Dichloropropane	63	8.066	8.063	0.003	91	427673	175.0	168.8	
65 1,4-Dioxane	88	8.139	8.148	-0.009	54	70292	3500.0	3462.8	
67 Dibromomethane	93	8.152	8.154	-0.002	95	256465	175.0	169.8	
68 Dichlorobromomethane	83	8.346	8.348	-0.002	97	582751	175.0	182.0	
71 cis-1,3-Dichloropropene	75	8.790	8.793	-0.003	88	631972	175.0	191.2	
72 4-Methyl-2-pentanone (MIBK)	43	8.955	8.951	0.004	97	842393	350.0	379.3	
73 Toluene	91	9.119	9.121	-0.002	97	1950594	175.0	165.5	
74 trans-1,3-Dichloropropene	75	9.368	9.370	-0.002	98	598166	175.0	183.4	
75 Ethyl methacrylate	69	9.429	9.431	-0.002	92	519800	175.0	184.3	
76 1,1,2-Trichloroethane	97	9.557	9.565	-0.008	96	371940	175.0	171.0	
77 Tetrachloroethene	164	9.630	9.632	-0.002	92	422495	175.0	170.4	
78 1,3-Dichloropropane	76	9.721	9.723	-0.002	96	633071	175.0	167.0	
79 2-Hexanone	43	9.782	9.784	-0.002	97	714675	350.0	391.6	
81 Chlorodibromomethane	129	9.934	9.936	-0.002	90	405168	175.0	190.9	
82 Ethylene Dibromide	107	10.044	10.046	-0.002	99	388678	175.0	175.8	
84 Chlorobenzene	112	10.536	10.539	-0.003	90	1301026	175.0	166.3	
86 1,1,1,2-Tetrachloroethane	131	10.628	10.630	-0.002	87	449253	175.0	179.3	
87 Ethylbenzene	106	10.634	10.636	-0.002	98	776087	175.0	169.2	
88 m-Xylene & p-Xylene	106	10.767	10.770	-0.003	98	1008171	175.0	180.0	
89 o-Xylene	106	11.151	11.147	0.004	96	907027	175.0	168.3	
90 Styrene	104	11.169	11.171	-0.002	92	1483236	175.0	173.2	
91 Bromoform	173	11.352	11.354	-0.002	93	196334	175.0	178.8	
93 Isopropylbenzene	105	11.516	11.518	-0.002	98	2392465	175.0	168.0	
96 1,1,2,2-Tetrachloroethane	83	11.832	11.834	-0.002	70	407962	175.0	176.7	
95 Bromobenzene	156	11.832	11.834	-0.002	95	524204	175.0	160.2	
97 trans-1,4-Dichloro-2-buten	53	11.869	11.871	-0.002	75	193094	175.0	188.5	
98 1,2,3-Trichloropropane	110	11.887	11.889	-0.002	89	181556	175.0	165.8	
99 N-Propylbenzene	120	11.936	11.932	0.004	96	737436	175.0	164.7	
100 2-Chlorotoluene	126	12.021	12.023	-0.002	95	575478	175.0	161.9	
102 1,3,5-Trimethylbenzene	105	12.118	12.114	0.004	94	2092704	175.0	159.6	
103 4-Chlorotoluene	126	12.148	12.145	0.003	98	613022	175.0	164.2	
104 tert-Butylbenzene	119	12.428	12.430	-0.002	93	1837630	175.0	160.1	
106 1,2,4-Trimethylbenzene	105	12.489	12.491	-0.002	99	2058065	175.0	159.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
108 sec-Butylbenzene	105	12.653	12.649	0.004	96	2546386	175.0	158.9	
109 1,3-Dichlorobenzene	146	12.775	12.771	0.004	94	979011	175.0	159.4	
110 4-Isopropyltoluene	119	12.805	12.808	-0.003	97	2228754	175.0	159.4	
111 1,4-Dichlorobenzene	146	12.878	12.875	0.003	89	976387	175.0	160.0	
116 n-Butylbenzene	91	13.219	13.215	0.004	96	1918550	175.0	163.1	
117 1,2-Dichlorobenzene	146	13.237	13.240	-0.003	92	901486	175.0	161.8	
118 1,2-Dibromo-3-Chloropropan	75	14.022	14.030	-0.008	75	66225	175.0	178.4	
122 1,2,4-Trichlorobenzene	180	14.850	14.852	-0.002	94	462304	175.0	170.0	
123 Hexachlorobutadiene	225	14.996	14.998	-0.002	96	267779	175.0	157.4	
124 Naphthalene	128	15.117	15.113	0.004	98	1036101	175.0	177.5	
125 1,2,3-Trichlorobenzene	180	15.348	15.357	-0.009	94	376943	175.0	176.9	
S 131 Xylenes, Total	106				0		350.0	348.3	
S 130 1,2-Dichloroethene, Total	96				0		350.0	341.8	
S 132 1,3-Dichloropropene, Total	1				0		350.0	374.6	
S 154 Total BTEX	1				0		875.0	848.7	

Reagents:

VOAACRPRI_00021	Amount Added: 9.00	Units: uL	
VOAVAPRI_00028	Amount Added: 7.00	Units: uL	
VOA8260VOAPRI_00376	Amount Added: 7.00	Units: uL	
VOA8260SURR_00100	Amount Added: 7.00	Units: uL	
voaWKetmix1st_00019	Amount Added: 7.00	Units: uL	
VOA8260INT_00100	Amount Added: 2.00	Units: uL	Run Reagent

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101815.D

Injection Date: 18-Oct-2019 17:55:30

Instrument ID: CHHP6

Operator ID: 433269

Lims ID: IC VSTD35

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

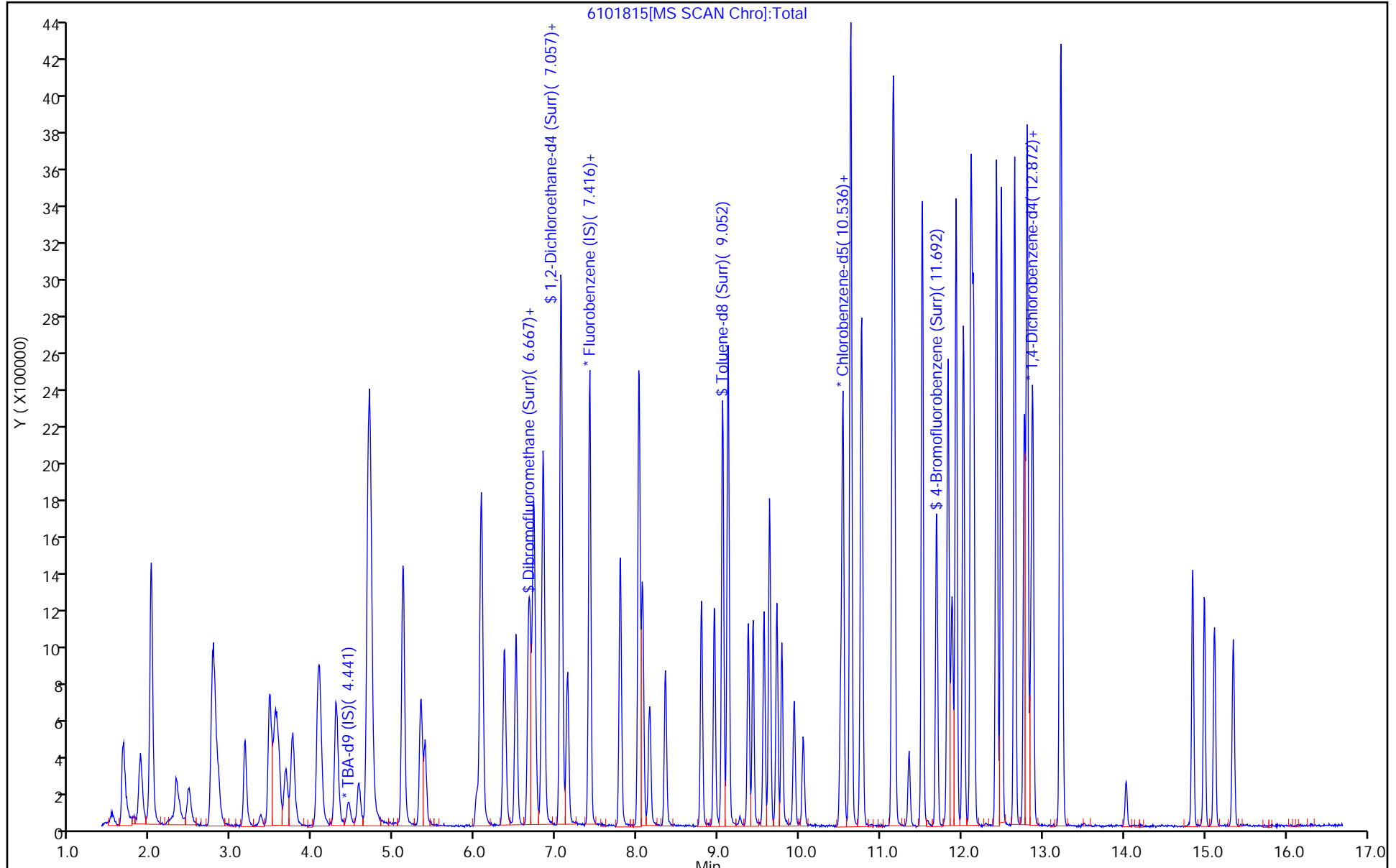
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C_D ICAL

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Pittsburgh
Target Compound Quantitation Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101816.D
 Lims ID: IC VSTD40
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 18-Oct-2019 18:21:30 ALS Bottle#: 10 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-0029183-010
 Misc. Info.: ic vstd40
 Operator ID: 433269 Instrument ID: CHHP6
 Sublist: chrom-MSVOA_LL_CHHP6*sub121
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C_D ICAL
 Last Update: 19-Oct-2019 10:17:49 Calib Date: 18-Oct-2019 18:47:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101817.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX0306

First Level Reviewer: bowieh

Date: 19-Oct-2019 09:42:38

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.441	4.431	0.010	92	185591	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.404	7.406	-0.002	73	528300	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.506	10.508	-0.002	88	139196	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.848	12.850	-0.002	94	214326	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.680	6.682	-0.002	93	504568	200.0	203.3	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	7.051	7.053	-0.002	95	759339	200.0	200.2	
\$ 7 Toluene-d8 (Surr)	98	9.052	9.054	-0.002	95	1886619	200.0	186.3	
\$ 8 4-Bromofluorobenzene (Surr	95	11.693	11.688	0.005	0	819325	200.0	196.0	
11 Dichlorodifluoromethane	85	1.667	1.663	0.004	99	1016051	200.0	189.8	
12 Chloromethane	50	1.874	1.870	0.004	99	902064	200.0	202.0	
13 Vinyl chloride	62	2.002	2.003	-0.001	63	771666	200.0	203.6	
14 Butadiene	39	2.008	2.016	-0.008	91	831575	200.0	192.8	
15 Bromomethane	94	2.318	2.326	-0.008	94	310291	200.0	194.0	
16 Chloroethane	64	2.482	2.478	0.004	96	361615	200.0	203.7	
17 Dichlorofluoromethane	67	2.774	2.776	-0.002	94	1017236	200.0	192.0	
18 Trichlorofluoromethane	101	2.792	2.788	0.004	96	1151348	200.0	190.4	
20 Ethyl ether	59	3.157	3.171	-0.014	96	471179	200.0	200.7	
21 Acrolein	56	3.358	3.372	-0.014	96	84268	250.0	251.7	
22 1,1-Dichloroethene	96	3.468	3.470	-0.002	97	522853	200.0	206.8	
23 1,1,2-Trichloro-1,2,2-trif	101	3.541	3.561	-0.020	94	604934	200.0	195.5	
24 Acetone	43	3.583	3.585	-0.002	98	522047	400.0	350.2	
25 Iodomethane	142	3.669	3.670	-0.002	99	814049	200.0	198.9	
26 Carbon disulfide	76	3.748	3.755	-0.007	99	1461631	200.0	213.0	
29 3-Chloro-1-propene	76	4.058	4.078	-0.020	84	312635	200.0	210.2	
30 Methyl acetate	43	4.094	4.096	-0.002	99	792998	400.0	397.2	
31 Methylene Chloride	84	4.295	4.291	0.004	97	581522	200.0	200.6	
32 2-Methyl-2-propanol	59	4.563	4.565	-0.002	95	395091	2000.0	2057.2	
33 Acrylonitrile	53	4.684	4.680	0.004	97	1992878	2000.0	1972.4	
34 trans-1,2-Dichloroethene	96	4.703	4.692	0.011	98	599243	200.0	196.8	
35 Methyl tert-butyl ether	73	4.715	4.717	-0.002	99	1335348	200.0	202.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	5.116	5.112	0.004	94	1036902	200.0	196.6	
37 1,1-Dichloroethane	63	5.329	5.331	-0.002	97	1038491	200.0	195.2	
38 Vinyl acetate	43	5.378	5.386	-0.008	98	965587	200.0	214.9	
42 2,2-Dichloropropane	97	6.078	6.079	-0.001	64	120613	200.0	190.3	
43 cis-1,2-Dichloroethene	96	6.078	6.085	-0.007	84	628953	200.0	198.6	
44 2-Butanone (MEK)	43	6.096	6.092	0.004	99	577795	400.0	386.8	
48 Chlorobromomethane	128	6.357	6.359	-0.002	96	292430	200.0	202.6	
49 Tetrahydrofuran	42	6.370	6.371	-0.001	0	304816	400.0	435.8	
50 Chloroform	83	6.503	6.505	-0.002	97	1021655	200.0	186.0	
51 1,1,1-Trichloroethane	97	6.655	6.663	-0.008	97	939082	200.0	201.7	
52 Cyclohexane	56	6.722	6.724	-0.002	94	1247121	200.0	196.5	
53 Carbon tetrachloride	117	6.826	6.828	-0.002	96	820492	200.0	208.2	
54 1,1-Dichloropropene	75	6.850	6.846	0.004	86	823238	200.0	194.4	
55 Isobutyl alcohol	41	7.057	7.059	-0.002	58	346384	5000.0	5463.9	
56 Benzene	78	7.063	7.065	-0.002	99	2043213	200.0	186.0	
57 1,2-Dichloroethane	62	7.136	7.144	-0.008	98	966297	200.0	194.2	
59 n-Heptane	43	7.416	7.418	-0.002	90	1004649	200.0	195.4	
61 Trichloroethene	130	7.793	7.789	0.004	95	650073	200.0	191.3	
63 Methylcyclohexane	83	8.018	8.026	-0.008	95	1138243	200.0	200.2	
64 1,2-Dichloropropane	63	8.067	8.063	0.004	90	514039	200.0	196.1	
65 1,4-Dioxane	88	8.140	8.148	-0.008	53	86571	4000.0	4009.5	
67 Dibromomethane	93	8.152	8.154	-0.002	95	300127	200.0	192.1	
68 Dichlorobromomethane	83	8.347	8.348	-0.001	97	691654	200.0	208.7	
71 cis-1,3-Dichloropropene	75	8.797	8.793	0.004	88	755498	200.0	220.8	
72 4-Methyl-2-pentanone (MIBK)	43	8.949	8.951	-0.002	95	934002	400.0	395.8	
73 Toluene	91	9.119	9.121	-0.002	97	2304307	200.0	184.0	
74 trans-1,3-Dichloropropene	75	9.369	9.370	-0.001	98	698161	200.0	201.4	
75 Ethyl methacrylate	69	9.423	9.431	-0.008	90	616275	200.0	205.7	
76 1,1,2-Trichloroethane	97	9.563	9.565	-0.002	96	445787	200.0	192.9	
77 Tetrachloroethene	164	9.630	9.632	-0.002	91	499543	200.0	189.7	
78 1,3-Dichloropropane	76	9.722	9.723	-0.001	97	766691	200.0	190.4	
79 2-Hexanone	43	9.782	9.784	-0.002	96	776331	400.0	400.5	
81 Chlorodibromomethane	129	9.934	9.936	-0.002	91	460665	200.0	204.3	
82 Ethylene Dibromide	107	10.044	10.046	-0.002	99	459713	200.0	195.7	
84 Chlorobenzene	112	10.537	10.539	-0.002	89	1536493	200.0	184.8	
86 1,1,1,2-Tetrachloroethane	131	10.628	10.630	-0.002	91	516909	200.0	194.2	
87 Ethylbenzene	106	10.634	10.636	-0.002	97	932194	200.0	191.3	
88 m-Xylene & p-Xylene	106	10.768	10.770	-0.002	97	1154701	200.0	194.1	
89 o-Xylene	106	11.145	11.147	-0.002	97	1088974	200.0	190.3	
90 Styrene	104	11.169	11.171	-0.002	93	1733574	200.0	190.6	
91 Bromoform	173	11.352	11.354	-0.002	94	238036	200.0	204.0	
93 Isopropylbenzene	105	11.516	11.518	-0.002	98	2751304	200.0	181.9	
95 Bromobenzene	156	11.826	11.834	-0.008	95	624423	200.0	184.5	
96 1,1,2,2-Tetrachloroethane	83	11.833	11.834	-0.002	95	481090	200.0	196.2	
97 trans-1,4-Dichloro-2-buten	53	11.863	11.871	-0.008	80	234016	200.0	220.9	
98 1,2,3-Trichloropropane	110	11.887	11.889	-0.002	89	213021	200.0	188.0	
99 N-Propylbenzene	120	11.930	11.932	-0.002	96	859139	200.0	185.5	
100 2-Chlorotoluene	126	12.021	12.023	-0.002	95	687006	200.0	186.8	
102 1,3,5-Trimethylbenzene	105	12.112	12.114	-0.002	95	2392282	200.0	176.3	
103 4-Chlorotoluene	126	12.149	12.145	0.004	98	718106	200.0	185.9	
104 tert-Butylbenzene	119	12.429	12.430	-0.001	92	2109938	200.0	177.7	
106 1,2,4-Trimethylbenzene	105	12.490	12.491	-0.001	98	2404504	200.0	180.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
108 sec-Butylbenzene	105	12.654	12.649	0.005	97	2976548	200.0	179.6	
109 1,3-Dichlorobenzene	146	12.775	12.771	0.004	93	1148026	200.0	180.7	
110 4-Isopropyltoluene	119	12.806	12.808	-0.002	95	2598170	200.0	179.7	
111 1,4-Dichlorobenzene	146	12.879	12.875	0.004	91	1153408	200.0	182.7	
116 n-Butylbenzene	91	13.220	13.215	0.005	96	2243550	200.0	184.4	
117 1,2-Dichlorobenzene	146	13.238	13.240	-0.002	92	1053289	200.0	182.8	
118 1,2-Dibromo-3-Chloropropan	75	14.029	14.030	-0.001	87	78633	200.0	204.7	
122 1,2,4-Trichlorobenzene	180	14.844	14.852	-0.008	94	560173	200.0	199.1	
123 Hexachlorobutadiene	225	14.990	14.998	-0.008	97	320584	200.0	182.1	
124 Naphthalene	128	15.118	15.113	0.005	98	1242767	200.0	205.8	
125 1,2,3-Trichlorobenzene	180	15.349	15.357	-0.008	95	456739	200.0	207.2	
S 131 Xylenes, Total	106				0		400.0	384.3	
S 130 1,2-Dichloroethene, Total	96				0		400.0	395.4	
S 132 1,3-Dichloropropene, Total	1				0		400.0	422.2	
S 154 Total BTEX	1				0		1000.0	945.7	

Reagents:

VOAACRPRI_00021	Amount Added: 10.00	Units: uL	
VOAVAPRI_00028	Amount Added: 8.00	Units: uL	
VOA8260VOAPRI_00376	Amount Added: 8.00	Units: uL	
VOA8260SURR_00100	Amount Added: 8.00	Units: uL	
voaWKetmix1st_00019	Amount Added: 8.00	Units: uL	
VOA8260INT_00100	Amount Added: 2.00	Units: uL	Run Reagent

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101816.D

Injection Date: 18-Oct-2019 18:21:30

Instrument ID: CHHP6

Operator ID: 433269

Lims ID: IC VSTD40

Worklist Smp#: 10

Client ID:

Purge Vol: 5.000 mL

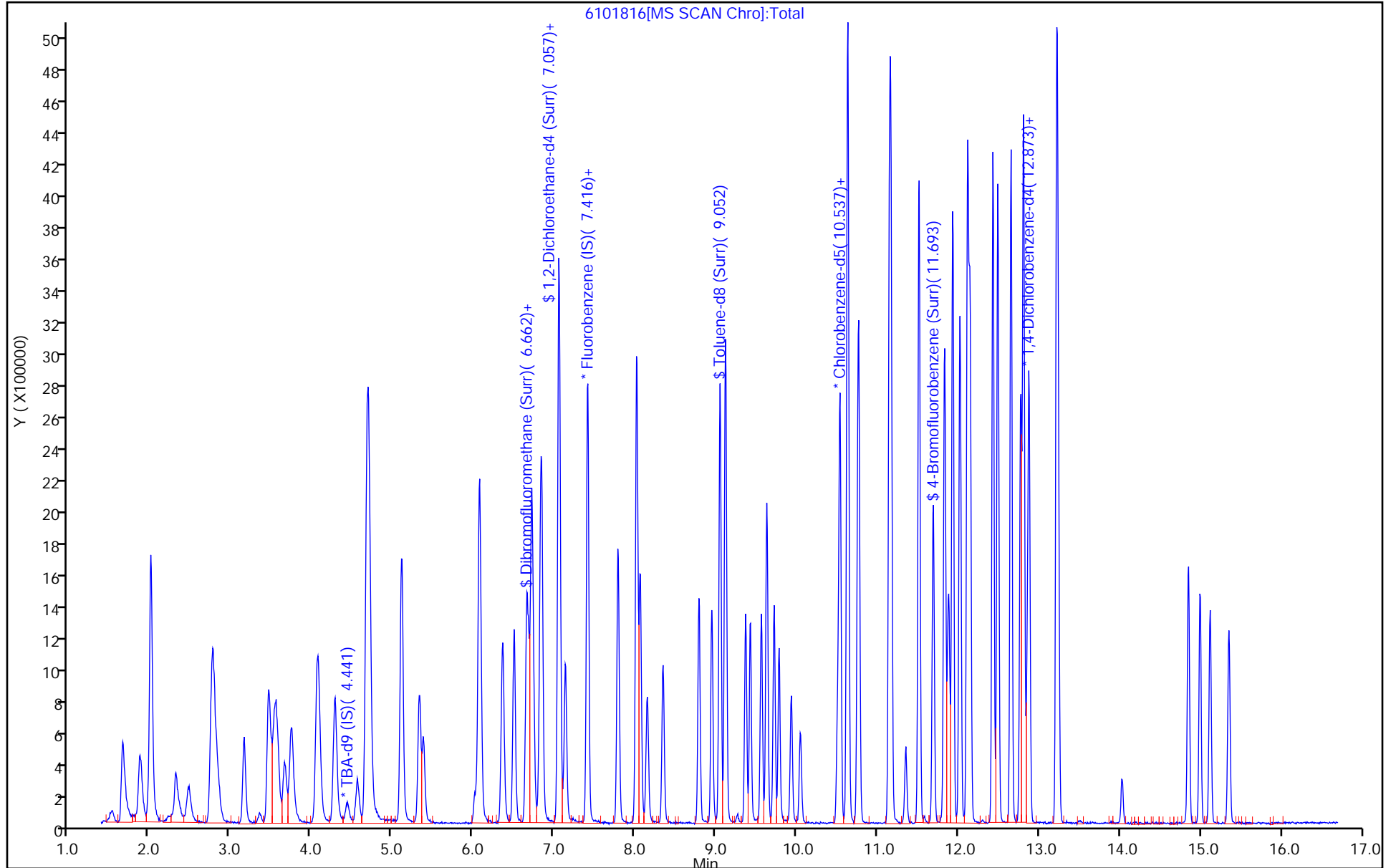
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C_D ICAL

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Pittsburgh
Target Compound Quantitation Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101817.D
 Lims ID: IC VSTD50
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 18-Oct-2019 18:47:30 ALS Bottle#: 11 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-0029183-011
 Misc. Info.: ic vstd50
 Operator ID: 433269 Instrument ID: CHHP6
 Sublist: chrom-MSVOA_LL_CHHP6*sub121
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C_D ICAL
 Last Update: 19-Oct-2019 10:18:08 Calib Date: 18-Oct-2019 18:47:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101817.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX0306

First Level Reviewer: bowieh

Date: 19-Oct-2019 09:50:11

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.426	4.431	-0.005	94	180161	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.407	7.406	0.001	98	588117	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.509	10.508	0.001	87	143126	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.852	12.850	0.002	94	218146	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.683	6.682	0.001	93	648543	250.0	234.7	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	7.054	7.053	0.001	92	962231	250.0	227.9	
\$ 7 Toluene-d8 (Surr)	98	9.049	9.054	-0.005	94	2392682	250.0	229.8	
\$ 8 4-Bromofluorobenzene (Surr	95	11.690	11.688	0.002	0	1068497	250.0	248.6	
11 Dichlorodifluoromethane	85	1.658	1.663	-0.005	98	1474474	250.0	247.4	
12 Chloromethane	50	1.877	1.870	0.007	99	1306123	250.0	262.8	
13 Vinyl chloride	62	1.999	2.003	-0.004	61	1116968	250.0	264.7	
14 Butadiene	39	2.005	2.016	-0.011	90	1214621	250.0	252.9	
15 Bromomethane	94	2.321	2.326	-0.005	92	424699	250.0	238.5	
16 Chloroethane	64	2.455	2.478	-0.023	97	507170	250.0	257.4	
17 Dichlorofluoromethane	67	2.765	2.776	-0.011	94	1443206	250.0	244.7	
18 Trichlorofluoromethane	101	2.783	2.788	-0.005	84	1663674	250.0	247.1	
20 Ethyl ether	59	3.161	3.171	-0.010	96	663288	250.0	253.8	
21 Acrolein	56	3.355	3.372	-0.017	97	103455	275.0	277.5	
22 1,1-Dichloroethene	96	3.465	3.470	-0.005	95	743338	250.0	264.1	
23 1,1,2-Trichloro-1,2,2-trif	101	3.532	3.561	-0.029	95	858289	250.0	249.2	
24 Acetone	43	3.574	3.585	-0.011	97	627953	500.0	378.3	
25 Iodomethane	142	3.666	3.670	-0.004	98	1160792	250.0	254.8	
26 Carbon disulfide	76	3.745	3.755	-0.010	99	2201157	250.0	288.1	
29 3-Chloro-1-propene	76	4.067	4.078	-0.011	85	478344	250.0	289.0	
30 Methyl acetate	43	4.091	4.096	-0.005	99	1130150	500.0	508.5	
31 Methylene Chloride	84	4.286	4.291	-0.005	98	821296	250.0	255.2	
32 2-Methyl-2-propanol	59	4.566	4.565	0.001	94	577892	2500.0	3099.7	
33 Acrylonitrile	53	4.682	4.680	0.002	98	2753254	2500.0	2447.7	
34 trans-1,2-Dichloroethene	96	4.700	4.692	0.008	97	858475	250.0	253.2	
35 Methyl tert-butyl ether	73	4.718	4.717	0.001	98	1918775	250.0	261.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	5.113	5.112	0.001	93	1505931	250.0	256.5	
37 1,1-Dichloroethane	63	5.332	5.331	0.001	96	1482711	250.0	250.3	
38 Vinyl acetate	43	5.381	5.386	-0.005	98	1277482	250.0	255.3	
42 2,2-Dichloropropane	97	6.069	6.079	-0.010	89	184257	250.0	261.1	
43 cis-1,2-Dichloroethene	96	6.075	6.085	-0.010	85	889023	250.0	252.2	
44 2-Butanone (MEK)	43	6.093	6.092	0.001	100	723401	500.0	435.0	
48 Chlorobromomethane	128	6.361	6.359	0.002	97	412942	250.0	257.0	
49 Tetrahydrofuran	42	6.367	6.371	-0.004	0	413638	500.0	532.5	
50 Chloroform	83	6.500	6.505	-0.005	97	1438468	250.0	235.3	
51 1,1,1-Trichloroethane	97	6.659	6.663	-0.004	96	1369807	250.0	264.3	
52 Cyclohexane	56	6.726	6.724	0.002	94	1829902	250.0	259.0	
53 Carbon tetrachloride	117	6.823	6.828	-0.005	95	1170241	250.0	266.7	
54 1,1-Dichloropropene	75	6.841	6.846	-0.005	88	1198417	250.0	254.2	
55 Isobutyl alcohol	41	7.060	7.059	0.001	56	488046	6250.0	6915.5	
56 Benzene	78	7.060	7.065	-0.005	96	2893400	250.0	236.6	
57 1,2-Dichloroethane	62	7.139	7.144	-0.005	98	1340884	250.0	242.0	
59 n-Heptane	43	7.419	7.418	0.001	92	1448120	250.0	253.0	
61 Trichloroethene	130	7.790	7.789	0.001	95	958003	250.0	253.3	
63 Methylcyclohexane	83	8.021	8.026	-0.005	94	1597798	250.0	252.5	
64 1,2-Dichloropropane	63	8.064	8.063	0.001	88	757565	250.0	259.6	
65 1,4-Dioxane	88	8.143	8.148	-0.005	50	126477	5000.0	5008.2	
67 Dibromomethane	93	8.155	8.154	0.001	94	456190	250.0	262.2	
68 Dichlorobromomethane	83	8.344	8.348	-0.004	97	1010793	250.0	274.0	
71 cis-1,3-Dichloropropene	75	8.788	8.793	-0.005	89	1105432	250.0	290.3	
72 4-Methyl-2-pentanone (MIBK)	43	8.952	8.951	0.001	94	1265880	500.0	521.8	
73 Toluene	91	9.122	9.121	0.001	95	3150744	250.0	244.7	
74 trans-1,3-Dichloropropene	75	9.372	9.370	0.002	95	1011372	250.0	283.0	
75 Ethyl methacrylate	69	9.427	9.431	-0.004	92	896571	250.0	291.0	
76 1,1,2-Trichloroethane	97	9.567	9.565	0.002	94	643117	250.0	270.7	
77 Tetrachloroethene	164	9.633	9.632	0.001	92	716733	250.0	264.7	
78 1,3-Dichloropropane	76	9.725	9.723	0.002	97	1089531	250.0	263.1	
79 2-Hexanone	43	9.779	9.784	-0.005	95	931192	500.0	467.2	
81 Chlorodibromomethane	129	9.932	9.936	-0.004	90	692786	250.0	298.8	
82 Ethylene Dibromide	107	10.047	10.046	0.001	98	669445	250.0	277.2	
84 Chlorobenzene	112	10.534	10.539	-0.005	89	2162707	250.0	253.0	
86 1,1,1,2-Tetrachloroethane	131	10.631	10.630	0.001	91	771538	250.0	282.0	
87 Ethylbenzene	106	10.637	10.636	0.001	97	1333346	250.0	266.2	
88 m-Xylene & p-Xylene	106	10.765	10.770	-0.005	97	1657816	250.0	271.0	
89 o-Xylene	106	11.148	11.147	0.001	97	1508704	250.0	256.4	
90 Styrene	104	11.166	11.171	-0.005	93	2437483	250.0	260.6	
91 Bromoform	173	11.349	11.354	-0.005	94	376323	250.0	313.7	
93 Isopropylbenzene	105	11.513	11.518	-0.005	98	3817218	250.0	245.5	
96 1,1,2,2-Tetrachloroethane	83	11.836	11.834	0.002	96	698459	250.0	277.0	
95 Bromobenzene	156	11.836	11.834	0.002	95	877436	250.0	254.7	
97 trans-1,4-Dichloro-2-buten	53	11.872	11.871	0.001	75	329138	250.0	305.2	
98 1,2,3-Trichloropropane	110	11.890	11.889	0.001	88	306093	250.0	265.4	
99 N-Propylbenzene	120	11.933	11.932	0.001	95	1239741	250.0	263.0	
100 2-Chlorotoluene	126	12.024	12.023	0.001	95	993196	250.0	265.3	
102 1,3,5-Trimethylbenzene	105	12.116	12.114	0.002	95	3299791	250.0	239.0	
103 4-Chlorotoluene	126	12.146	12.145	0.001	98	1018561	250.0	259.1	
104 tert-Butylbenzene	119	12.432	12.430	0.002	92	2940771	250.0	243.3	
106 1,2,4-Trimethylbenzene	105	12.493	12.491	0.002	98	3298430	250.0	242.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
108 sec-Butylbenzene	105	12.657	12.649	0.008	96	3967745	250.0	235.2	
109 1,3-Dichlorobenzene	146	12.773	12.771	0.002	93	1617235	250.0	250.1	
110 4-Isopropyltoluene	119	12.809	12.808	0.001	94	3554391	250.0	241.5	
111 1,4-Dichlorobenzene	146	12.876	12.875	0.001	88	1660672	250.0	258.4	
116 n-Butylbenzene	91	13.217	13.215	0.002	95	3095957	250.0	250.0	
117 1,2-Dichlorobenzene	146	13.235	13.240	-0.005	90	1483003	250.0	252.8	
118 1,2-Dibromo-3-Chloropropan	75	14.026	14.030	-0.004	74	117227	250.0	299.8	
122 1,2,4-Trichlorobenzene	180	14.847	14.852	-0.005	94	787245	250.0	274.9	
123 Hexachlorobutadiene	225	14.993	14.998	-0.005	97	471236	250.0	263.0	
124 Naphthalene	128	15.121	15.113	0.008	98	1771901	250.0	288.3	
125 1,2,3-Trichlorobenzene	180	15.352	15.357	-0.005	94	618255	250.0	275.5	
S 131 Xylenes, Total	106				0		500.0	527.3	
S 130 1,2-Dichloroethene, Total	96				0		500.0	505.4	
S 132 1,3-Dichloropropene, Total	1				0		500.0	573.3	
S 154 Total BTEX	1				0		1250.0	1274.8	

Reagents:

VOAACRPRI_00021	Amount Added: 11.00	Units: uL	
VOAVAPRI_00028	Amount Added: 10.00	Units: uL	
VOA8260VOAPRI_00376	Amount Added: 10.00	Units: uL	
VOA8260SURR_00100	Amount Added: 10.00	Units: uL	
voaWKetmix1st_00019	Amount Added: 10.00	Units: uL	
VOA8260INT_00100	Amount Added: 2.00	Units: uL	Run Reagent

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101817.D

Injection Date: 18-Oct-2019 18:47:30

Instrument ID: CHHP6

Operator ID: 433269

Lims ID: IC VSTD50

Worklist Smp#: 11

Client ID:

Purge Vol: 5.000 mL

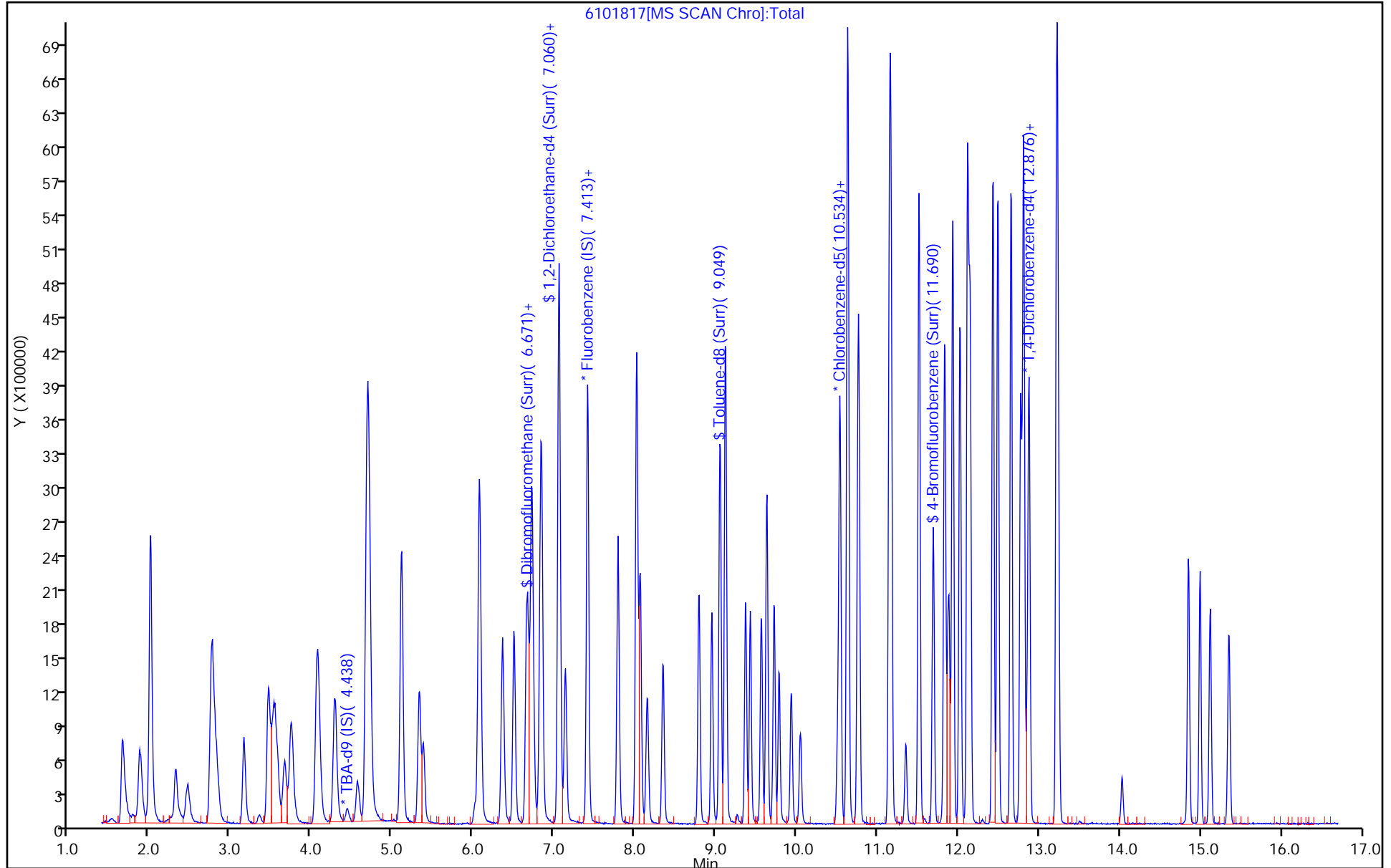
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C_D ICAL

Column: DB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1
 SDG No.: _____
 Lab Sample ID: CCVIS 180-295448/2 Calibration Date: 10/19/2019 13:21
 Instrument ID: CHHP6 Calib Start Date: 06/14/2019 10:47
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 06/14/2019 14:02
 Lab File ID: 6101902.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chloroethyl vinyl ether	Ave	0.1768	0.1363	0.0100	15.4	20.0	-22.9*	20.0

Eurofins TestAmerica, Pittsburgh
Target Compound Quantitation Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101902.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 19-Oct-2019 13:21:30 ALS Bottle#: 2 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-0029191-002
 Misc. Info.: CCVIS
 Operator ID: 433269 Instrument ID: CHHP6
 Sublist: chrom-MSVOA_LL_CHHP6*sub127

Method: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C_D ICAL
 Last Update: 22-Oct-2019 09:13:31 Calib Date: 18-Oct-2019 18:47:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101817.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX0302

First Level Reviewer: bowieh

Date: 22-Oct-2019 09:13:31

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.429	4.429	0.000	88	174060	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.410	7.410	0.000	98	531349	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.513	10.513	0.000	88	125260	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.855	12.855	0.000	96	190909	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.686	6.686	0.000	90	135456	50.0	54.3	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	7.057	7.057	0.000	60	209552	50.0	54.9	
\$ 7 Toluene-d8 (Surr)	98	9.053	9.053	0.000	94	509734	50.0	55.9	
\$ 8 4-Bromofluorobenzene (Surr	95	11.693	11.693	0.000	0	220241	50.0	58.5	
11 Dichlorodifluoromethane	85	1.661	1.661	0.000	95	236350	50.0	43.9	
12 Chloromethane	50	1.886	1.886	0.000	99	228724	50.0	50.9	
13 Vinyl chloride	62	2.008	2.008	0.000	61	181956	50.0	47.7	
14 Butadiene	39	2.020	2.020	0.000	96	207935	50.0	47.9	
15 Bromomethane	94	2.355	2.355	0.000	92	85060	50.0	52.9	M
16 Chloroethane	64	2.495	2.495	0.000	96	86827	50.0	46.5	
17 Dichlorofluoromethane	67	2.775	2.775	0.000	95	262252	50.0	49.2	
18 Trichlorofluoromethane	101	2.793	2.793	0.000	93	301775	50.0	49.6	
20 Ethyl ether	59	3.164	3.164	0.000	94	111272	50.0	47.1	
22 1,1-Dichloroethene	96	3.468	3.468	0.000	93	130631	50.0	51.4	
23 1,1,2-Trichloro-1,2,2-trif	101	3.541	3.541	0.000	93	167219	50.0	53.7	
24 Acetone	43	3.584	3.584	0.000	90	163079	100.0	108.8	M
25 Iodomethane	142	3.675	3.675	0.000	96	207360	50.0	50.4	
26 Carbon disulfide	76	3.766	3.766	0.000	100	345028	50.0	50.0	
29 3-Chloro-1-propene	76	4.082	4.082	0.000	83	75809	50.0	50.7	
30 Methyl acetate	43	4.101	4.101	0.000	99	207071	100.0	103.1	
31 Methylene Chloride	84	4.289	4.289	0.000	99	145058	50.0	47.5	
32 2-Methyl-2-propanol	59	4.557	4.557	0.000	93	83852	500.0	465.5	
33 Acrylonitrile	53	4.679	4.679	0.000	99	515776	500.0	507.5	
34 trans-1,2-Dichloroethene	96	4.709	4.709	0.000	84	149665	50.0	48.9	
35 Methyl tert-butyl ether	73	4.715	4.715	0.000	98	309938	50.0	46.8	
36 Hexane	57	5.117	5.117	0.000	93	269345	50.0	50.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
37 1,1-Dichloroethane	63	5.336	5.336	0.000	97	256751	50.0	48.0	
38 Vinyl acetate	43	5.384	5.384	0.000	98	193077	50.0	42.7	
43 cis-1,2-Dichloroethene	96	6.078	6.078	0.000	85	156677	50.0	49.2	
42 2,2-Dichloropropane	97	6.078	6.078	0.000	57	31015	50.0	48.6	
44 2-Butanone (MEK)	43	6.090	6.090	0.000	73	144077	100.0	95.9	
48 Chlorobromomethane	128	6.358	6.358	0.000	96	68771	50.0	47.4	
49 Tetrahydrofuran	42	6.370	6.370	0.000	0	78223	100.0	106.8	
50 Chloroform	83	6.510	6.510	0.000	95	248339	50.0	45.0	
51 1,1,1-Trichloroethane	97	6.662	6.662	0.000	96	232202	50.0	49.6	
52 Cyclohexane	56	6.723	6.723	0.000	91	311902	50.0	48.9	
53 Carbon tetrachloride	117	6.826	6.826	0.000	96	193692	50.0	48.9	
54 1,1-Dichloropropene	75	6.850	6.850	0.000	90	214072	50.0	50.3	
55 Isobutyl alcohol	41	7.063	7.063	0.000	43	79973	1250.0	1254.3	
56 Benzene	78	7.063	7.063	0.000	96	562117	50.0	50.9	
57 1,2-Dichloroethane	62	7.142	7.142	0.000	99	237406	50.0	47.4	
59 n-Heptane	43	7.416	7.416	0.000	93	259939	50.0	50.3	
61 Trichloroethene	130	7.793	7.793	0.000	94	179300	50.0	52.5	
63 Methylcyclohexane	83	8.018	8.018	0.000	95	296957	50.0	51.9	
64 1,2-Dichloropropane	63	8.061	8.061	0.000	86	127571	50.0	48.4	
65 1,4-Dioxane	88	8.146	8.146	0.000	50	19740	1000.0	1033.0	
67 Dibromomethane	93	8.152	8.152	0.000	97	76579	50.0	48.7	
68 Dichlorobromomethane	83	8.347	8.347	0.000	96	154280	50.0	46.3	
70 2-Chloroethyl vinyl ether	63	8.645	8.645	0.000	96	144878	100.0	77.1	
71 cis-1,3-Dichloropropene	75	8.797	8.797	0.000	87	168219	50.0	48.9	
72 4-Methyl-2-pentanone (MIBK)	43	8.955	8.955	0.000	97	223859	100.0	105.4	
73 Toluene	91	9.126	9.126	0.000	98	611001	50.0	54.2	
74 trans-1,3-Dichloropropene	75	9.369	9.369	0.000	97	156370	50.0	51.4	
75 Ethyl methacrylate	69	9.430	9.430	0.000	88	138914	50.0	51.5	
76 1,1,2-Trichloroethane	97	9.570	9.570	0.000	93	114148	50.0	54.9	
77 Tetrachloroethene	164	9.631	9.631	0.000	95	125277	50.0	52.9	
78 1,3-Dichloropropane	76	9.722	9.722	0.000	97	186018	50.0	51.3	
79 2-Hexanone	43	9.789	9.789	0.000	98	183633	100.0	105.3	
81 Chlorodibromomethane	129	9.935	9.935	0.000	90	109570	50.0	54.0	
82 Ethylene Dibromide	107	10.044	10.044	0.000	99	106949	50.0	50.6	
84 Chlorobenzene	112	10.537	10.537	0.000	92	403551	50.0	53.9	
87 Ethylbenzene	106	10.634	10.634	0.000	99	233363	50.0	53.2	
86 1,1,1,2-Tetrachloroethane	131	10.634	10.634	0.000	42	124604	50.0	52.0	
88 m-Xylene & p-Xylene	106	10.762	10.762	0.000	99	284572	50.0	53.1	
89 o-Xylene	106	11.145	11.145	0.000	97	277542	50.0	53.9	
90 Styrene	104	11.170	11.170	0.000	95	452345	50.0	55.3	
91 Bromoform	173	11.352	11.352	0.000	95	55227	50.0	52.6	
93 Isopropylbenzene	105	11.516	11.516	0.000	97	742295	50.0	54.5	
95 Bromobenzene	156	11.833	11.833	0.000	94	152367	50.0	50.5	
96 1,1,2,2-Tetrachloroethane	83	11.833	11.833	0.000	70	107736	50.0	48.8	
97 trans-1,4-Dichloro-2-buten	53	11.875	11.875	0.000	73	46628	50.0	49.4	
98 1,2,3-Trichloropropane	110	11.894	11.894	0.000	88	52475	50.0	52.0	
99 N-Propylbenzene	120	11.936	11.936	0.000	98	223001	50.0	54.0	
100 2-Chlorotoluene	126	12.021	12.021	0.000	96	173957	50.0	53.1	
102 1,3,5-Trimethylbenzene	105	12.113	12.113	0.000	94	628162	50.0	52.0	
103 4-Chlorotoluene	126	12.149	12.149	0.000	98	172414	50.0	50.1	
104 tert-Butylbenzene	119	12.429	12.429	0.000	93	567097	50.0	53.6	
106 1,2,4-Trimethylbenzene	105	12.490	12.490	0.000	98	627294	50.0	52.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
108 sec-Butylbenzene	105	12.654	12.654	0.000	95	811064	50.0	54.9	
109 1,3-Dichlorobenzene	146	12.770	12.770	0.000	96	281026	50.0	49.7	
110 4-Isopropyltoluene	119	12.812	12.812	0.000	96	698045	50.0	54.2	
111 1,4-Dichlorobenzene	146	12.879	12.879	0.000	91	288621	50.0	51.3	
116 n-Butylbenzene	91	13.220	13.220	0.000	98	578390	50.0	53.4	
117 1,2-Dichlorobenzene	146	13.238	13.238	0.000	91	251125	50.0	48.9	
118 1,2-Dibromo-3-Chloropropan	75	14.035	14.029	0.006	77	15834	50.0	46.3	
122 1,2,4-Trichlorobenzene	180	14.856	14.856	0.000	91	124989	50.0	49.9	
123 Hexachlorobutadiene	225	14.990	14.990	0.000	96	71432	50.0	45.6	
124 Naphthalene	128	15.118	15.118	0.000	96	219047	50.0	40.7	
125 1,2,3-Trichlorobenzene	180	15.349	15.349	0.000	92	88821	50.0	45.2	
S 130 1,2-Dichloroethene, Total	96				0		100.0	98.0	
S 131 Xylenes, Total	106				0		100.0	107.0	
S 154 Total BTEX	1				0		250.0	265.4	
S 132 1,3-Dichloropropene, Total	1				0		100.0	100.3	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

VOA8260VOAPRI_00376

Amount Added: 2.00

Units: uL

voaWKetmix1st_00019

Amount Added: 2.00

Units: uL

VOAVAPRI_00028

Amount Added: 2.00

Units: uL

VOACEVEPRI_00054

Amount Added: 2.00

Units: uL

voaWI/SHP5_00014

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101902.D

Injection Date: 19-Oct-2019 13:21:30

Instrument ID: CHHP6

Operator ID: 433269

Lims ID: CCVIS

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

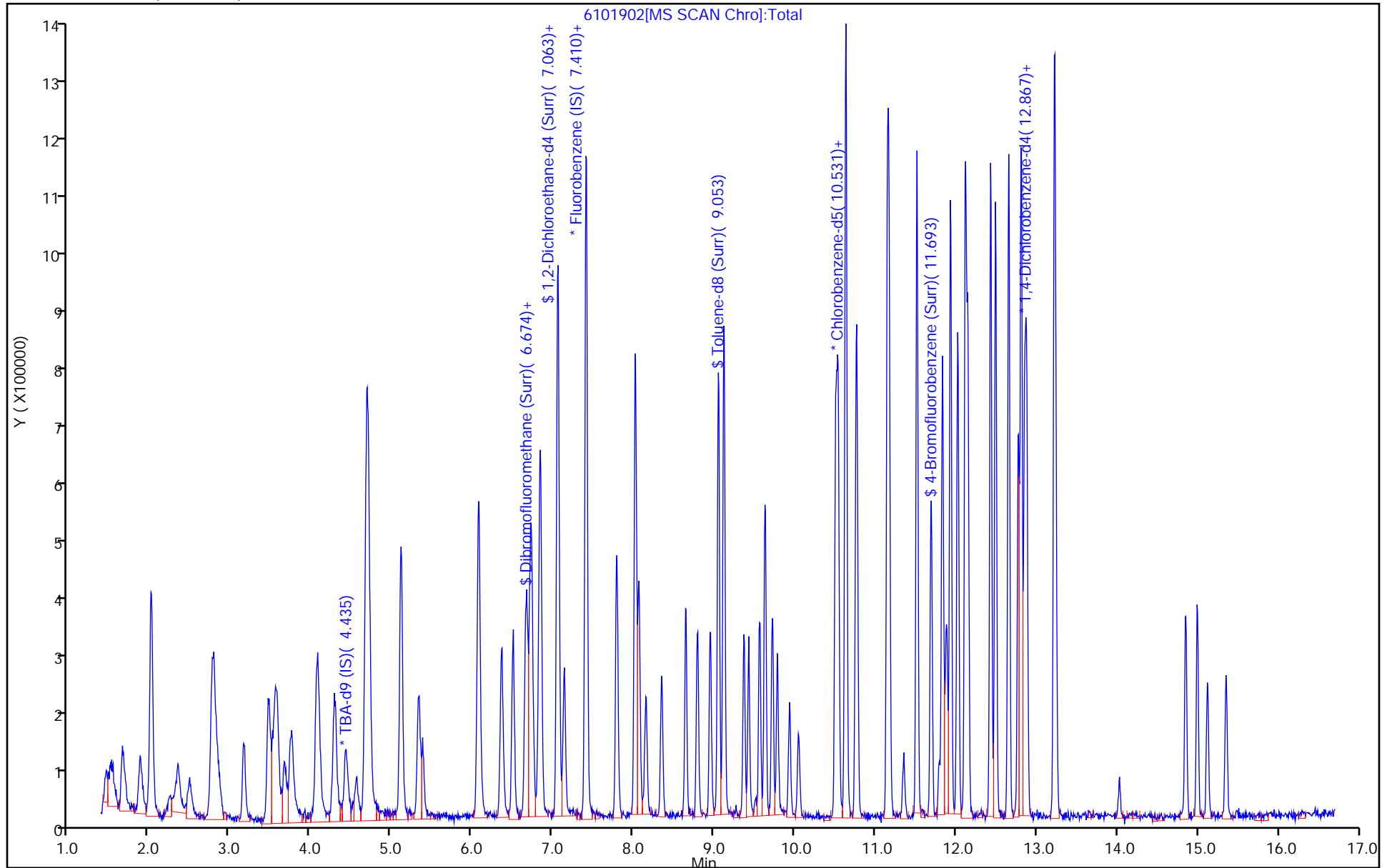
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C_D ICAL

Column: DB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1

SDG No.: _____

Lab Sample ID: CCVIS 180-295448/2 Calibration Date: 10/19/2019 13:21

Instrument ID: CHHP6 Calib Start Date: 10/18/2019 15:43

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 10/18/2019 18:47

Lab File ID: 6101902.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.5067	0.4448	0.1000	8.78	10.0	-12.2	20.0
Chloromethane	Ave	0.4226	0.4305	0.1000	10.2	10.0	1.9	20.0
Vinyl chloride	Ave	0.3587	0.3424	0.1000	9.55	10.0	-4.5	20.0
1,3-Butadiene	Ave	0.4083	0.3913	0.0100	9.59	10.0	-4.1	20.0
Bromomethane	Ave	0.1514	0.1601	0.0500	10.6	10.0	5.8	20.0
Chloroethane	Lin2		0.1634	0.0500	9.30	10.0	-7.0	20.0
Dichlorofluoromethane	Ave	0.5014	0.4936	0.0100	9.84	10.0	-1.6	20.0
Trichlorofluoromethane	Ave	0.5723	0.5679	0.1000	9.92	10.0	-0.8	20.0
Ethyl ether	Ave	0.2222	0.2094	0.0100	9.42	10.0	-5.8	20.0
1,1-Dichloroethene	Ave	0.2393	0.2459	0.1000	10.3	10.0	2.7	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2928	0.3147	0.1000	10.7	10.0	7.5	20.0
Acetone	Ave	0.1411	0.1535	0.0500	21.8	20.0	8.8	20.0
Iodomethane	Ave	0.3874	0.3903	0.0100	10.1	10.0	0.7	20.0
Carbon disulfide	Ave	0.6495	0.6493	0.1000	10.0	10.0	-0.0	20.0
Allyl chloride	Ave	0.1407	0.1427	0.0100	10.1	10.0	1.4	20.0
Methyl acetate	Ave	0.1890	0.1949	0.1000	20.6	20.0	3.1	20.0
Methylene Chloride	Lin2		0.2730	0.1000	9.50	10.0	-5.0	20.0
tert-Butyl alcohol	Ave	1.035	0.9635	0.0100	93.1	100	-6.9	20.0
Acrylonitrile	Ave	0.0956	0.0971	0.0100	102	100	1.5	20.0
trans-1,2-Dichloroethene	Ave	0.2882	0.2817	0.1000	9.77	10.0	-2.3	20.0
Methyl tert-butyl ether	Ave	0.6231	0.5833	0.1000	9.36	10.0	-6.4	20.0
Hexane	Ave	0.4992	0.5069	0.0100	10.2	10.0	1.5	20.0
1,1-Dichloroethane	Ave	0.5036	0.4832	0.2000	9.60	10.0	-4.0	20.0
Vinyl acetate	Ave	0.4253	0.3634	0.0100	8.54	10.0	-14.6	20.0
2,2-Dichloropropane	Ave	0.0600	0.0584	0.0100	9.73	10.0	-2.7	20.0
cis-1,2-Dichloroethene	Ave	0.2997	0.2949	0.1000	9.84	10.0	-1.6	20.0
2-Butanone (MEK)	Ave	0.1414	0.1356	0.0500	19.2	20.0	-4.1	20.0
Bromochloromethane	Ave	0.1366	0.1294	0.0100	9.48	10.0	-5.2	20.0
Tetrahydrofuran	Lin2		0.0736	0.0100	21.4	20.0	6.8	20.0
Chloroform	Ave	0.5198	0.4674	0.2000	8.99	10.0	-10.1	20.0
1,1,1-Trichloroethane	Ave	0.4407	0.4370	0.1000	9.92	10.0	-0.8	20.0
Cyclohexane	Ave	0.6008	0.5870	0.1000	9.77	10.0	-2.3	20.0
Carbon tetrachloride	Ave	0.3730	0.3645	0.1000	9.77	10.0	-2.3	20.0
1,1-Dichloropropene	Ave	0.4008	0.4029	0.0100	10.1	10.0	0.5	20.0
Benzene	Ave	1.040	1.058	0.5000	10.2	10.0	1.8	20.0
Isobutyl alcohol	Ave	0.0060	0.0060*	0.0100	251	250	0.3	20.0
1,2-Dichloroethane	Ave	0.4710	0.4468	0.1000	9.49	10.0	-5.1	20.0
n-Heptane	Ave	0.4867	0.4892	0.0100	10.1	10.0	0.5	20.0
Trichloroethene	Ave	0.3215	0.3374	0.2000	10.5	10.0	4.9	20.0
Methylcyclohexane	Ave	0.5380	0.5589	0.1000	10.4	10.0	3.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1
 SDG No.: _____
 Lab Sample ID: CCVIS 180-295448/2 Calibration Date: 10/19/2019 13:21
 Instrument ID: CHHP6 Calib Start Date: 10/18/2019 15:43
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 10/18/2019 18:47
 Lab File ID: 6101902.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Ave	0.2481	0.2401	0.1000	9.68	10.0	-3.2	20.0
1,4-Dioxane	Qua		0.0019*	0.0100	207	200	3.3	20.0
Dibromomethane	Ave	0.1479	0.1441	0.0100	9.75	10.0	-2.5	20.0
Bromodichloromethane	Ave	0.3137	0.2904	0.2000	9.26	10.0	-7.4	20.0
cis-1,3-Dichloropropene	Ave	0.3238	0.3166	0.2000	9.78	10.0	-2.2	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.8475	0.8936	0.1000	21.1	20.0	5.4	20.0
Toluene	Ave	4.498	4.878	0.4000	10.8	10.0	8.5	20.0
trans-1,3-Dichloropropene	Lin2		1.248	0.1000	10.3	10.0	2.9	20.0
Ethyl methacrylate	Ave	1.076	1.109	0.0100	10.3	10.0	3.1	20.0
1,1,2-Trichloroethane	Ave	0.8300	0.9113	0.1000	11.0	10.0	9.8	20.0
Tetrachloroethene	Ave	0.9460	1.000	0.2000	10.6	10.0	5.7	20.0
1,3-Dichloropropane	Ave	1.447	1.485	0.0100	10.3	10.0	2.7	20.0
2-Hexanone	Ave	0.6963	0.7330	0.1000	21.1	20.0	5.3	20.0
Dibromochloromethane	Ave	0.8099	0.8747	0.1000	10.8	10.0	8.0	20.0
1,2-Dibromoethane (EDB)	Ave	0.8438	0.8538	0.1000	10.1	10.0	1.2	20.0
Chlorobenzene	Ave	2.986	3.222	0.5000	10.8	10.0	7.9	20.0
1,1,1,2-Tetrachloroethane	Ave	0.9559	0.9948	0.0100	10.4	10.0	4.1	20.0
Ethylbenzene	Ave	1.750	1.863	0.1000	10.6	10.0	6.5	20.0
m-Xylene & p-Xylene	Ave	2.137	2.272	0.1000	10.6	10.0	6.3	20.0
o-Xylene	Ave	2.056	2.216	0.3000	10.8	10.0	7.8	20.0
Styrene	Ave	3.267	3.611	0.3000	11.1	10.0	10.5	20.0
Bromoform	Ave	0.4190	0.4409	0.1000	10.5	10.0	5.2	20.0
Isopropylbenzene	Ave	5.433	5.926	0.1000	10.9	10.0	9.1	20.0
1,1,2,2-Tetrachloroethane	Ave	0.8808	0.8601	0.3000	9.76	10.0	-2.4	20.0
Bromobenzene	Ave	0.7896	0.7981	0.0100	10.1	10.0	1.1	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2472	0.2442	0.0100	9.88	10.0	-1.2	20.0
1,2,3-Trichloropropane	Ave	0.2643	0.2749	0.0100	10.4	10.0	4.0	20.0
N-Propylbenzene	Ave	1.081	1.168	0.0100	10.8	10.0	8.1	20.0
2-Chlorotoluene	Ave	0.8581	0.9112	0.0100	10.6	10.0	6.2	20.0
1,3,5-Trimethylbenzene	Ave	3.165	3.290	0.0100	10.4	10.0	4.0	20.0
4-Chlorotoluene	Ave	0.9011	0.9031	0.0100	10.0	10.0	0.2	20.0
tert-Butylbenzene	Ave	2.770	2.971	0.0100	10.7	10.0	7.2	20.0
1,2,4-Trimethylbenzene	Ave	3.113	3.286	0.0100	10.6	10.0	5.6	20.0
sec-Butylbenzene	Ave	3.867	4.248	0.0100	11.0	10.0	9.9	20.0
1,3-Dichlorobenzene	Ave	1.482	1.472	0.6000	9.93	10.0	-0.7	20.0
4-Isopropyltoluene	Ave	3.374	3.656	0.0100	10.8	10.0	8.4	20.0
1,4-Dichlorobenzene	Ave	1.473	1.512	0.5000	10.3	10.0	2.6	20.0
n-Butylbenzene	Ave	2.839	3.030	0.0100	10.7	10.0	6.7	20.0
1,2-Dichlorobenzene	Ave	1.345	1.315	0.4000	9.78	10.0	-2.2	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0896	0.0829	0.0500	9.26	10.0	-7.4	20.0
1,2,4-Trichlorobenzene	Ave	0.6564	0.6547	0.2000	9.97	10.0	-0.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1
 SDG No.: _____
 Lab Sample ID: CCVIS 180-295448/2 Calibration Date: 10/19/2019 13:21
 Instrument ID: CHHP6 Calib Start Date: 10/18/2019 15:43
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 10/18/2019 18:47
 Lab File ID: 6101902.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Hexachlorobutadiene	Ave	0.4107	0.3742	0.0100	9.11	10.0	-8.9	20.0
Naphthalene	Ave	1.409	1.147	0.0100	8.15	10.0	-18.5	20.0
1,2,3-Trichlorobenzene	Ave	0.5144	0.4653	0.0100	9.05	10.0	-9.5	20.0
Dibromofluoromethane (Surr)	Ave	0.2349	0.2549		10.9	10.0	8.5	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3590	0.3944		11.0	10.0	9.8	20.0
Toluene-d8 (Surr)	Ave	3.637	4.069		11.2	10.0	11.9	20.0
4-Bromofluorobenzene (Surr)	Ave	1.502	1.758		11.7	10.0	17.1	20.0

Eurofins TestAmerica, Pittsburgh
Target Compound Quantitation Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101902.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 19-Oct-2019 13:21:30 ALS Bottle#: 2 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-0029191-002
 Misc. Info.: CCVIS
 Operator ID: 433269 Instrument ID: CHHP6
 Sublist: chrom-MSVOA_LL_CHHP6*sub127

Method: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C_D ICAL
 Last Update: 22-Oct-2019 09:13:31 Calib Date: 18-Oct-2019 18:47:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101817.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX0302

First Level Reviewer: bowieh

Date: 22-Oct-2019 09:13:31

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.429	4.429	0.000	88	174060	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.410	7.410	0.000	98	531349	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.513	10.513	0.000	88	125260	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.855	12.855	0.000	96	190909	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.686	6.686	0.000	90	135456	50.0	54.3	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	7.057	7.057	0.000	60	209552	50.0	54.9	
\$ 7 Toluene-d8 (Surr)	98	9.053	9.053	0.000	94	509734	50.0	55.9	
\$ 8 4-Bromofluorobenzene (Surr	95	11.693	11.693	0.000	0	220241	50.0	58.5	
11 Dichlorodifluoromethane	85	1.661	1.661	0.000	95	236350	50.0	43.9	
12 Chloromethane	50	1.886	1.886	0.000	99	228724	50.0	50.9	
13 Vinyl chloride	62	2.008	2.008	0.000	61	181956	50.0	47.7	
14 Butadiene	39	2.020	2.020	0.000	96	207935	50.0	47.9	
15 Bromomethane	94	2.355	2.355	0.000	92	85060	50.0	52.9	M
16 Chloroethane	64	2.495	2.495	0.000	96	86827	50.0	46.5	
17 Dichlorofluoromethane	67	2.775	2.775	0.000	95	262252	50.0	49.2	
18 Trichlorofluoromethane	101	2.793	2.793	0.000	93	301775	50.0	49.6	
20 Ethyl ether	59	3.164	3.164	0.000	94	111272	50.0	47.1	
22 1,1-Dichloroethene	96	3.468	3.468	0.000	93	130631	50.0	51.4	
23 1,1,2-Trichloro-1,2,2-trif	101	3.541	3.541	0.000	93	167219	50.0	53.7	
24 Acetone	43	3.584	3.584	0.000	90	163079	100.0	108.8	M
25 Iodomethane	142	3.675	3.675	0.000	96	207360	50.0	50.4	
26 Carbon disulfide	76	3.766	3.766	0.000	100	345028	50.0	50.0	
29 3-Chloro-1-propene	76	4.082	4.082	0.000	83	75809	50.0	50.7	
30 Methyl acetate	43	4.101	4.101	0.000	99	207071	100.0	103.1	
31 Methylene Chloride	84	4.289	4.289	0.000	99	145058	50.0	47.5	
32 2-Methyl-2-propanol	59	4.557	4.557	0.000	93	83852	500.0	465.5	
33 Acrylonitrile	53	4.679	4.679	0.000	99	515776	500.0	507.5	
34 trans-1,2-Dichloroethene	96	4.709	4.709	0.000	84	149665	50.0	48.9	
35 Methyl tert-butyl ether	73	4.715	4.715	0.000	98	309938	50.0	46.8	
36 Hexane	57	5.117	5.117	0.000	93	269345	50.0	50.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
37 1,1-Dichloroethane	63	5.336	5.336	0.000	97	256751	50.0	48.0	
38 Vinyl acetate	43	5.384	5.384	0.000	98	193077	50.0	42.7	
43 cis-1,2-Dichloroethene	96	6.078	6.078	0.000	85	156677	50.0	49.2	
42 2,2-Dichloropropane	97	6.078	6.078	0.000	57	31015	50.0	48.6	
44 2-Butanone (MEK)	43	6.090	6.090	0.000	73	144077	100.0	95.9	
48 Chlorobromomethane	128	6.358	6.358	0.000	96	68771	50.0	47.4	
49 Tetrahydrofuran	42	6.370	6.370	0.000	0	78223	100.0	106.8	
50 Chloroform	83	6.510	6.510	0.000	95	248339	50.0	45.0	
51 1,1,1-Trichloroethane	97	6.662	6.662	0.000	96	232202	50.0	49.6	
52 Cyclohexane	56	6.723	6.723	0.000	91	311902	50.0	48.9	
53 Carbon tetrachloride	117	6.826	6.826	0.000	96	193692	50.0	48.9	
54 1,1-Dichloropropene	75	6.850	6.850	0.000	90	214072	50.0	50.3	
55 Isobutyl alcohol	41	7.063	7.063	0.000	43	79973	1250.0	1254.3	
56 Benzene	78	7.063	7.063	0.000	96	562117	50.0	50.9	
57 1,2-Dichloroethane	62	7.142	7.142	0.000	99	237406	50.0	47.4	
59 n-Heptane	43	7.416	7.416	0.000	93	259939	50.0	50.3	
61 Trichloroethene	130	7.793	7.793	0.000	94	179300	50.0	52.5	
63 Methylcyclohexane	83	8.018	8.018	0.000	95	296957	50.0	51.9	
64 1,2-Dichloropropane	63	8.061	8.061	0.000	86	127571	50.0	48.4	
65 1,4-Dioxane	88	8.146	8.146	0.000	50	19740	1000.0	1033.0	
67 Dibromomethane	93	8.152	8.152	0.000	97	76579	50.0	48.7	
68 Dichlorobromomethane	83	8.347	8.347	0.000	96	154280	50.0	46.3	
70 2-Chloroethyl vinyl ether	63	8.645	8.645	0.000	96	144878	100.0	77.1	
71 cis-1,3-Dichloropropene	75	8.797	8.797	0.000	87	168219	50.0	48.9	
72 4-Methyl-2-pentanone (MIBK)	43	8.955	8.955	0.000	97	223859	100.0	105.4	
73 Toluene	91	9.126	9.126	0.000	98	611001	50.0	54.2	
74 trans-1,3-Dichloropropene	75	9.369	9.369	0.000	97	156370	50.0	51.4	
75 Ethyl methacrylate	69	9.430	9.430	0.000	88	138914	50.0	51.5	
76 1,1,2-Trichloroethane	97	9.570	9.570	0.000	93	114148	50.0	54.9	
77 Tetrachloroethene	164	9.631	9.631	0.000	95	125277	50.0	52.9	
78 1,3-Dichloropropane	76	9.722	9.722	0.000	97	186018	50.0	51.3	
79 2-Hexanone	43	9.789	9.789	0.000	98	183633	100.0	105.3	
81 Chlorodibromomethane	129	9.935	9.935	0.000	90	109570	50.0	54.0	
82 Ethylene Dibromide	107	10.044	10.044	0.000	99	106949	50.0	50.6	
84 Chlorobenzene	112	10.537	10.537	0.000	92	403551	50.0	53.9	
87 Ethylbenzene	106	10.634	10.634	0.000	99	233363	50.0	53.2	
86 1,1,1,2-Tetrachloroethane	131	10.634	10.634	0.000	42	124604	50.0	52.0	
88 m-Xylene & p-Xylene	106	10.762	10.762	0.000	99	284572	50.0	53.1	
89 o-Xylene	106	11.145	11.145	0.000	97	277542	50.0	53.9	
90 Styrene	104	11.170	11.170	0.000	95	452345	50.0	55.3	
91 Bromoform	173	11.352	11.352	0.000	95	55227	50.0	52.6	
93 Isopropylbenzene	105	11.516	11.516	0.000	97	742295	50.0	54.5	
95 Bromobenzene	156	11.833	11.833	0.000	94	152367	50.0	50.5	
96 1,1,2,2-Tetrachloroethane	83	11.833	11.833	0.000	70	107736	50.0	48.8	
97 trans-1,4-Dichloro-2-buten	53	11.875	11.875	0.000	73	46628	50.0	49.4	
98 1,2,3-Trichloropropane	110	11.894	11.894	0.000	88	52475	50.0	52.0	
99 N-Propylbenzene	120	11.936	11.936	0.000	98	223001	50.0	54.0	
100 2-Chlorotoluene	126	12.021	12.021	0.000	96	173957	50.0	53.1	
102 1,3,5-Trimethylbenzene	105	12.113	12.113	0.000	94	628162	50.0	52.0	
103 4-Chlorotoluene	126	12.149	12.149	0.000	98	172414	50.0	50.1	
104 tert-Butylbenzene	119	12.429	12.429	0.000	93	567097	50.0	53.6	
106 1,2,4-Trimethylbenzene	105	12.490	12.490	0.000	98	627294	50.0	52.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
108 sec-Butylbenzene	105	12.654	12.654	0.000	95	811064	50.0	54.9	
109 1,3-Dichlorobenzene	146	12.770	12.770	0.000	96	281026	50.0	49.7	
110 4-Isopropyltoluene	119	12.812	12.812	0.000	96	698045	50.0	54.2	
111 1,4-Dichlorobenzene	146	12.879	12.879	0.000	91	288621	50.0	51.3	
116 n-Butylbenzene	91	13.220	13.220	0.000	98	578390	50.0	53.4	
117 1,2-Dichlorobenzene	146	13.238	13.238	0.000	91	251125	50.0	48.9	
118 1,2-Dibromo-3-Chloropropan	75	14.035	14.029	0.006	77	15834	50.0	46.3	
122 1,2,4-Trichlorobenzene	180	14.856	14.856	0.000	91	124989	50.0	49.9	
123 Hexachlorobutadiene	225	14.990	14.990	0.000	96	71432	50.0	45.6	
124 Naphthalene	128	15.118	15.118	0.000	96	219047	50.0	40.7	
125 1,2,3-Trichlorobenzene	180	15.349	15.349	0.000	92	88821	50.0	45.2	
S 130 1,2-Dichloroethene, Total	96				0		100.0	98.0	
S 131 Xylenes, Total	106				0		100.0	107.0	
S 154 Total BTEX	1				0		250.0	265.4	
S 132 1,3-Dichloropropene, Total	1				0		100.0	100.3	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

VOA8260VOAPRI_00376

Amount Added: 2.00

Units: uL

voaWKetmix1st_00019

Amount Added: 2.00

Units: uL

VOAVAPRI_00028

Amount Added: 2.00

Units: uL

VOACEVEPRI_00054

Amount Added: 2.00

Units: uL

voaWI/SHP5_00014

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101902.D

Injection Date: 19-Oct-2019 13:21:30

Instrument ID: CHHP6

Operator ID: 433269

Lims ID: CCVIS

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

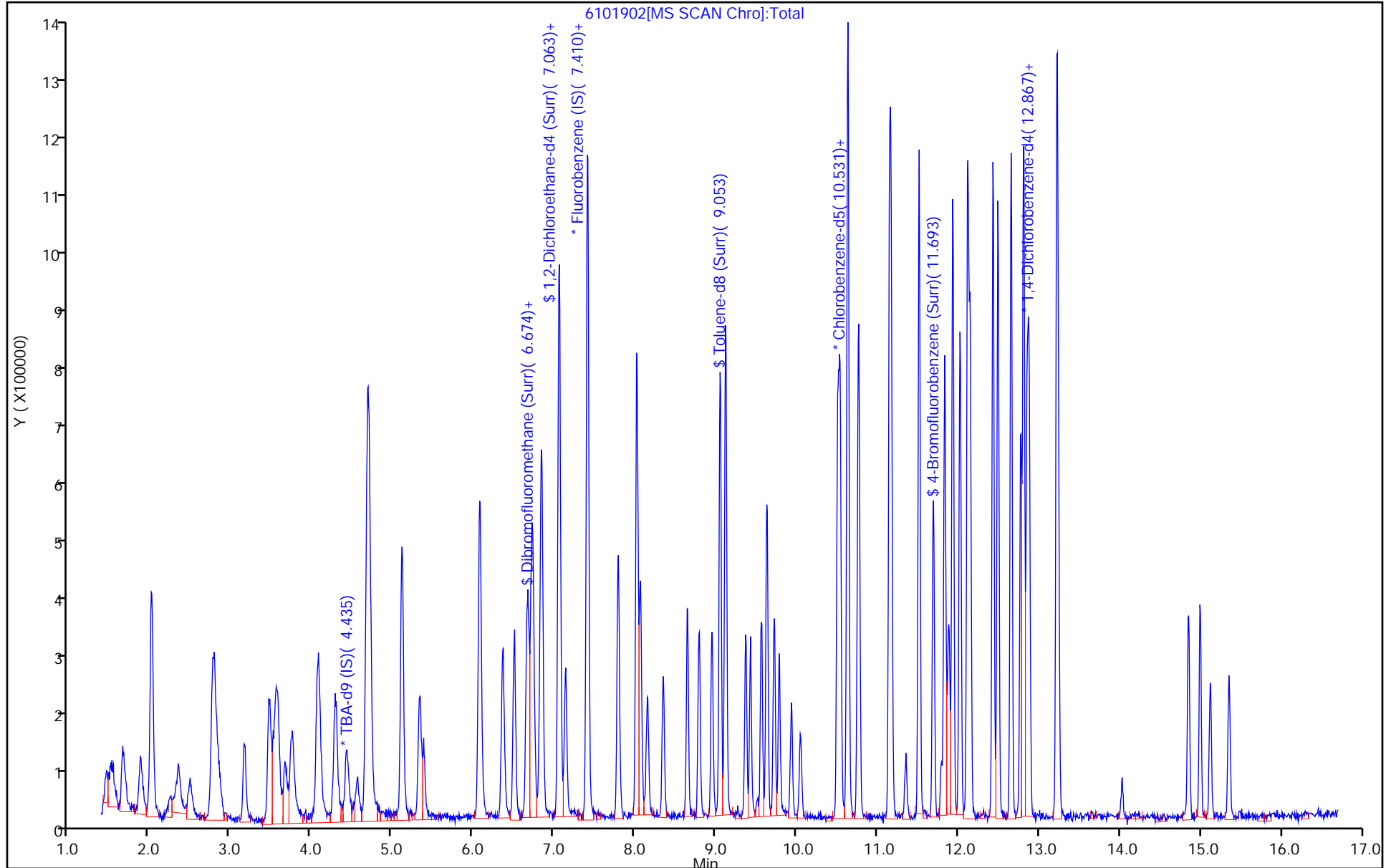
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C_D ICAL

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Pittsburgh

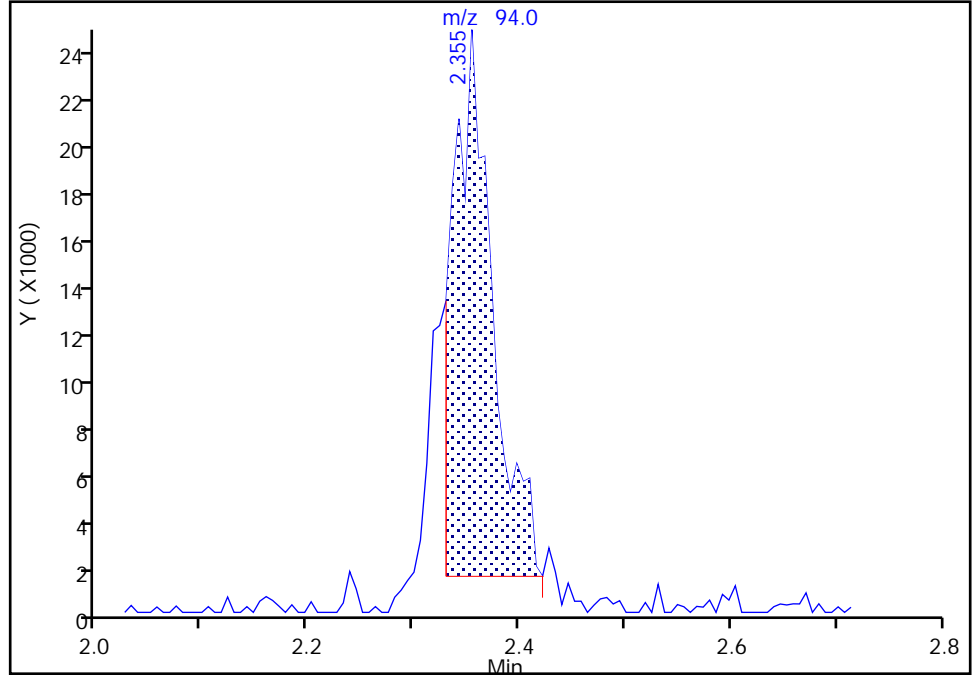
Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101902.D
Injection Date: 19-Oct-2019 13:21:30 Instrument ID: CHHP6
Lims ID: CCVIS
Client ID:
Operator ID: 433269 ALS Bottle#: 2 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

15 Bromomethane, CAS: 74-83-9

Signal: 1

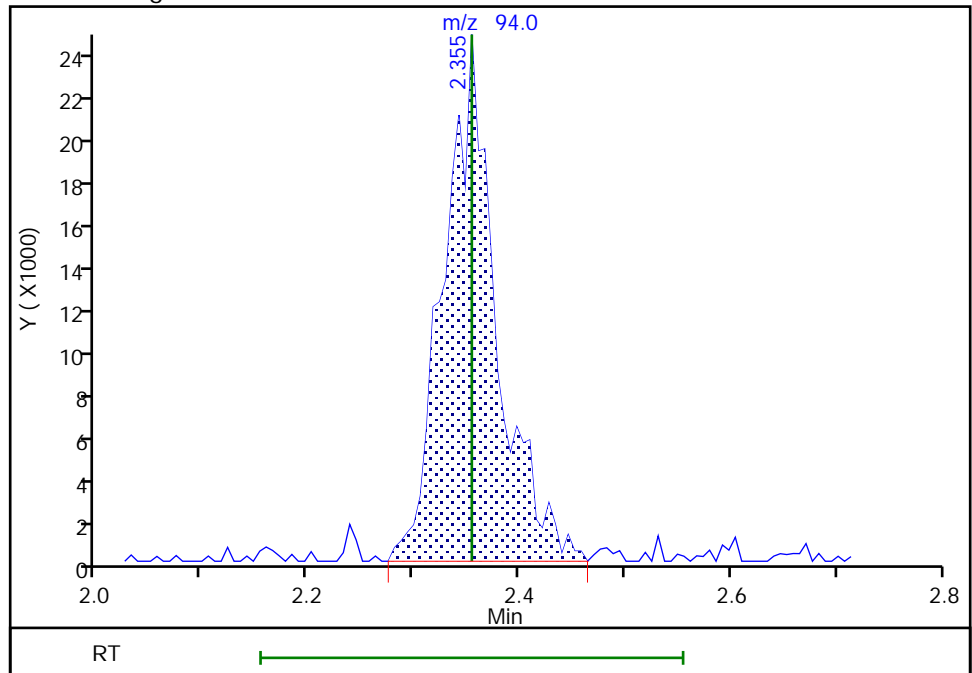
RT: 2.35
Area: 59750
Amount: 37.144351
Amount Units: ng

Processing Integration Results



RT: 2.35
Area: 85060
Amount: 52.878636
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 19-Oct-2019 13:43:17
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Pittsburgh

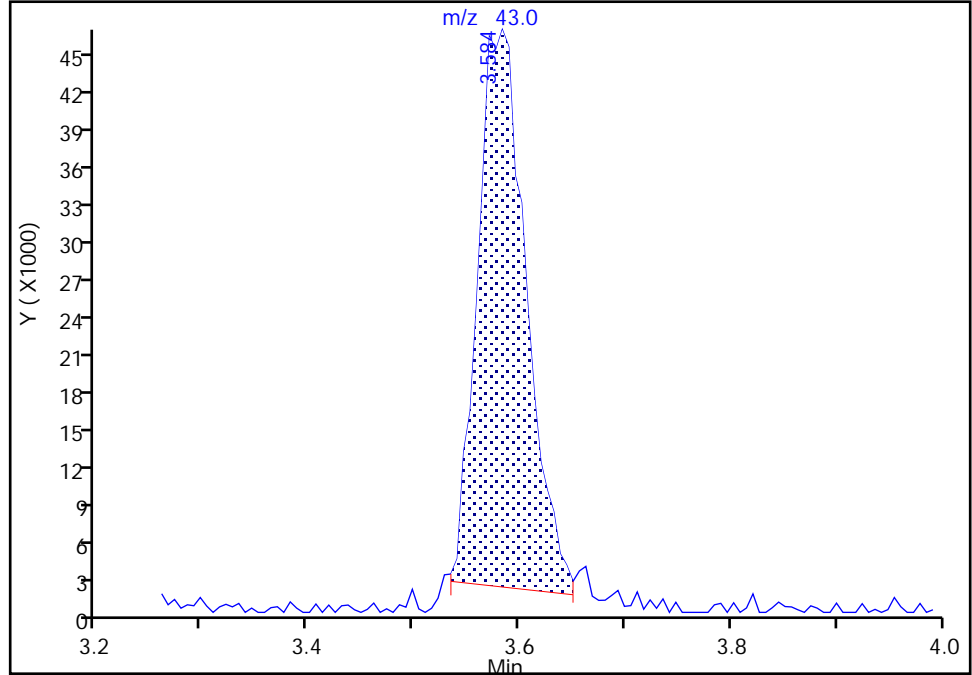
Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101902.D
Injection Date: 19-Oct-2019 13:21:30 Instrument ID: CHHP6
Lims ID: CCVIS
Client ID:
Operator ID: 433269 ALS Bottle#: 2 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

24 Acetone, CAS: 67-64-1

Signal: 1

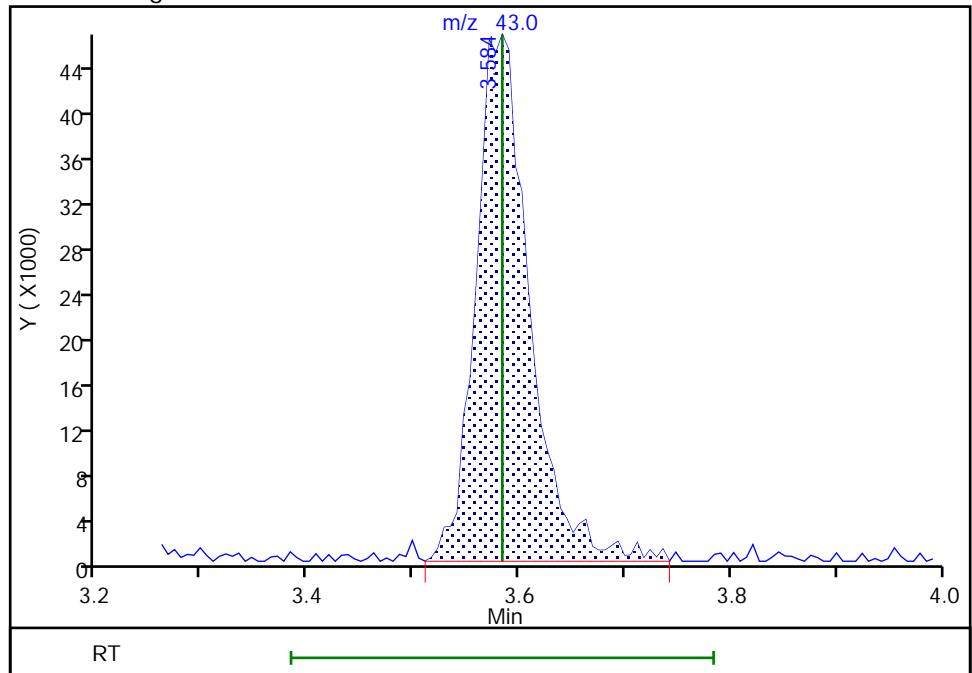
RT: 3.58
Area: 140702
Amount: 93.831825
Amount Units: ng

Processing Integration Results



RT: 3.58
Area: 163079
Amount: 108.7547
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 19-Oct-2019 13:43:42
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1
 SDG No.: _____
 Lab Sample ID: CCVIS 180-295765/2 Calibration Date: 10/23/2019 09:50
 Instrument ID: CHHP6 Calib Start Date: 06/14/2019 10:47
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 06/14/2019 14:02
 Lab File ID: 6102302.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chloroethyl vinyl ether	Ave	0.1768	0.1715	0.0100	19.4	20.0	-3.0	20.0

Eurofins TestAmerica, Pittsburgh
Target Compound Quantitation Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\6102302.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 23-Oct-2019 09:50:30 ALS Bottle#: 2 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-0029242-002
 Misc. Info.: CCVIS
 Operator ID: 433269 Instrument ID: CHHP6
 Sublist: chrom-MSVOA_LL_CHHP6*sub127
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C_D ICAL
 Last Update: 24-Oct-2019 08:47:06 Calib Date: 18-Oct-2019 18:47:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101817.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX0337

First Level Reviewer: bowieh

Date: 24-Oct-2019 08:47:06

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.435	4.435	0.000	88	184774	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.410	7.410	0.000	97	538429	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.512	10.512	0.000	91	122643	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.854	12.854	0.000	97	191029	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.686	6.686	0.000	92	120118	50.0	47.5	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	7.051	7.051	0.000	60	198305	50.0	51.3	
\$ 7 Toluene-d8 (Surr)	98	9.052	9.052	0.000	95	501993	50.0	56.3	
\$ 8 4-Bromofluorobenzene (Surr	95	11.693	11.693	0.000	0	200366	50.0	54.4	
11 Dichlorodifluoromethane	85	1.667	1.667	0.000	98	209287	50.0	38.4	
12 Chloromethane	50	1.874	1.874	0.000	98	275043	50.0	60.4	
13 Vinyl chloride	62	2.002	2.002	0.000	63	208807	50.0	54.1	
14 Butadiene	39	2.008	2.008	0.000	99	249503	50.0	56.8	
15 Bromomethane	94	2.342	2.342	0.000	93	83238	50.0	51.1	
16 Chloroethane	64	2.488	2.488	0.000	98	118400	50.0	63.5	
17 Dichlorofluoromethane	67	2.780	2.780	0.000	95	293819	50.0	54.4	
18 Trichlorofluoromethane	101	2.792	2.792	0.000	96	274555	50.0	44.5	
20 Ethyl ether	59	3.170	3.170	0.000	96	130379	50.0	54.5	
22 1,1-Dichloroethene	96	3.468	3.468	0.000	92	132649	50.0	51.5	
23 1,1,2-Trichloro-1,2,2-trif	101	3.553	3.553	0.000	95	151880	50.0	48.2	
24 Acetone	43	3.583	3.583	0.000	97	146140	100.0	96.2	
25 Iodomethane	142	3.662	3.662	0.000	100	187451	50.0	44.9	
26 Carbon disulfide	76	3.754	3.754	0.000	99	352684	50.0	50.4	
29 3-Chloro-1-propene	76	4.070	4.070	0.000	89	78360	50.0	51.7	
30 Methyl acetate	43	4.100	4.100	0.000	100	285713	100.0	140.4	
31 Methylene Chloride	84	4.295	4.295	0.000	95	170123	50.0	55.4	
32 2-Methyl-2-propanol	59	4.551	4.551	0.000	93	96112	500.0	502.7	
33 Acrylonitrile	53	4.678	4.678	0.000	100	673255	500.0	653.8	
34 trans-1,2-Dichloroethene	96	4.703	4.703	0.000	95	156202	50.0	50.3	
35 Methyl tert-butyl ether	73	4.709	4.709	0.000	98	321040	50.0	47.8	
36 Hexane	57	5.110	5.110	0.000	97	336595	50.0	62.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
37 1,1-Dichloroethane	63	5.335	5.335	0.000	97	300826	50.0	55.5	
38 Vinyl acetate	43	5.384	5.384	0.000	97	234560	50.0	51.2	a
42 2,2-Dichloropropane	97	6.065	6.065	0.000	69	25075	50.0	38.8	
43 cis-1,2-Dichloroethene	96	6.077	6.077	0.000	89	154749	50.0	47.9	
44 2-Butanone (MEK)	43	6.090	6.090	0.000	93	180237	100.0	118.4	
48 Chlorobromomethane	128	6.363	6.363	0.000	88	64711	50.0	44.0	
49 Tetrahydrofuran	42	6.376	6.376	0.000	0	94052	100.0	127.9	
50 Chloroform	83	6.503	6.503	0.000	97	269699	50.0	48.2	
51 1,1,1-Trichloroethane	97	6.661	6.661	0.000	96	222929	50.0	47.0	
52 Cyclohexane	56	6.728	6.728	0.000	95	380765	50.0	58.9	
53 Carbon tetrachloride	117	6.826	6.826	0.000	96	188635	50.0	47.0	
54 1,1-Dichloropropene	75	6.844	6.844	0.000	89	215882	50.0	50.0	
55 Isobutyl alcohol	41	7.057	7.057	0.000	47	100209	1250.0	1551.0	
56 Benzene	78	7.063	7.063	0.000	94	588265	50.0	52.5	
57 1,2-Dichloroethane	62	7.136	7.136	0.000	97	239949	50.0	47.3	
59 n-Heptane	43	7.416	7.416	0.000	96	329132	50.0	62.8	
61 Trichloroethene	130	7.793	7.793	0.000	95	150545	50.0	43.5	
63 Methylcyclohexane	83	8.024	8.024	0.000	96	309838	50.0	53.5	
64 1,2-Dichloropropane	63	8.067	8.067	0.000	90	157180	50.0	58.8	
65 1,4-Dioxane	88	8.146	8.146	0.000	45	22998	1000.0	1185.8	
67 Dibromomethane	93	8.146	8.146	0.000	93	76842	50.0	48.3	
68 Dichlorobromomethane	83	8.347	8.347	0.000	96	168895	50.0	50.0	
70 2-Chloroethyl vinyl ether	63	8.651	8.651	0.000	95	184698	100.0	97.0	
71 cis-1,3-Dichloropropene	75	8.791	8.791	0.000	87	190564	50.0	54.7	
72 4-Methyl-2-pentanone (MIBK)	43	8.949	8.949	0.000	98	303855	100.0	146.2	
73 Toluene	91	9.119	9.119	0.000	97	640091	50.0	58.0	
74 trans-1,3-Dichloropropene	75	9.369	9.369	0.000	98	160858	50.0	54.0	
75 Ethyl methacrylate	69	9.429	9.429	0.000	93	154351	50.0	58.5	
76 1,1,2-Trichloroethane	97	9.563	9.563	0.000	92	118751	50.0	58.3	
77 Tetrachloroethene	164	9.636	9.636	0.000	95	128188	50.0	55.2	
78 1,3-Dichloropropane	76	9.721	9.721	0.000	95	195860	50.0	55.2	
79 2-Hexanone	43	9.782	9.782	0.000	99	233854	100.0	136.9	
81 Chlorodibromomethane	129	9.934	9.934	0.000	90	102940	50.0	51.8	
82 Ethylene Dibromide	107	10.044	10.044	0.000	100	113054	50.0	54.6	
84 Chlorobenzene	112	10.537	10.537	0.000	90	379264	50.0	51.8	
86 1,1,1,2-Tetrachloroethane	131	10.634	10.634	0.000	88	121014	50.0	51.6	
87 Ethylbenzene	106	10.634	10.634	0.000	98	243615	50.0	56.8	
88 m-Xylene & p-Xylene	106	10.768	10.768	0.000	99	290813	50.0	55.5	
89 o-Xylene	106	11.151	11.151	0.000	98	283156	50.0	56.1	
90 Styrene	104	11.169	11.169	0.000	94	460075	50.0	57.4	
91 Bromoform	173	11.352	11.352	0.000	94	56054	50.0	54.5	
93 Isopropylbenzene	105	11.516	11.516	0.000	97	742721	50.0	55.7	
95 Bromobenzene	156	11.832	11.832	0.000	97	146228	50.0	48.5	
96 1,1,2,2-Tetrachloroethane	83	11.832	11.832	0.000	70	121906	50.0	56.4	
97 trans-1,4-Dichloro-2-buten	53	11.869	11.869	0.000	74	49550	50.0	52.5	
98 1,2,3-Trichloropropane	110	11.887	11.887	0.000	86	51580	50.0	51.1	
99 N-Propylbenzene	120	11.936	11.936	0.000	98	204452	50.0	49.5	
100 2-Chlorotoluene	126	12.027	12.027	0.000	95	159761	50.0	48.7	
102 1,3,5-Trimethylbenzene	105	12.118	12.118	0.000	94	625929	50.0	51.8	
103 4-Chlorotoluene	126	12.143	12.143	0.000	99	167409	50.0	48.6	
104 tert-Butylbenzene	119	12.429	12.429	0.000	93	507022	50.0	47.9	
106 1,2,4-Trimethylbenzene	105	12.489	12.489	0.000	98	614764	50.0	51.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
108 sec-Butylbenzene	105	12.654	12.654	0.000	96	788748	50.0	53.4	
109 1,3-Dichlorobenzene	146	12.775	12.775	0.000	96	288610	50.0	51.0	
110 4-Isopropyltoluene	119	12.812	12.812	0.000	96	620683	50.0	48.2	
111 1,4-Dichlorobenzene	146	12.879	12.879	0.000	91	288897	50.0	51.3	
116 n-Butylbenzene	91	13.219	13.219	0.000	97	551960	50.0	50.9	
117 1,2-Dichlorobenzene	146	13.238	13.238	0.000	93	268494	50.0	52.3	
118 1,2-Dibromo-3-Chloropropan	75	14.029	14.035	-0.006	79	17254	50.0	50.4	
122 1,2,4-Trichlorobenzene	180	14.850	14.850	0.000	93	108553	50.0	43.3	
123 Hexachlorobutadiene	225	14.990	14.990	0.000	92	52786	50.0	33.6	
124 Naphthalene	128	15.124	15.124	0.000	98	215756	50.0	40.1	
125 1,2,3-Trichlorobenzene	180	15.355	15.355	0.000	95	82030	50.0	41.7	
S 130 1,2-Dichloroethene, Total	96				0		100.0	98.3	
S 131 Xylenes, Total	106				0		100.0	111.6	
S 154 Total BTEX	1				0		250.0	278.9	
S 132 1,3-Dichloropropene, Total	1				0		100.0	108.6	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

VOA8260VOAPRI_00376	Amount Added: 2.00	Units: uL	
voaWKetmix1st_00019	Amount Added: 2.00	Units: uL	
VOAVAPRI_00028	Amount Added: 2.00	Units: uL	
VOACEVEPRI_00055	Amount Added: 2.00	Units: uL	
voaWI/SHP5_00014	Amount Added: 5.00	Units: uL	Run Reagent

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\6102302.D

Injection Date: 23-Oct-2019 09:50:30

Instrument ID: CHHP6

Operator ID: 433269

Lims ID: CCVIS

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

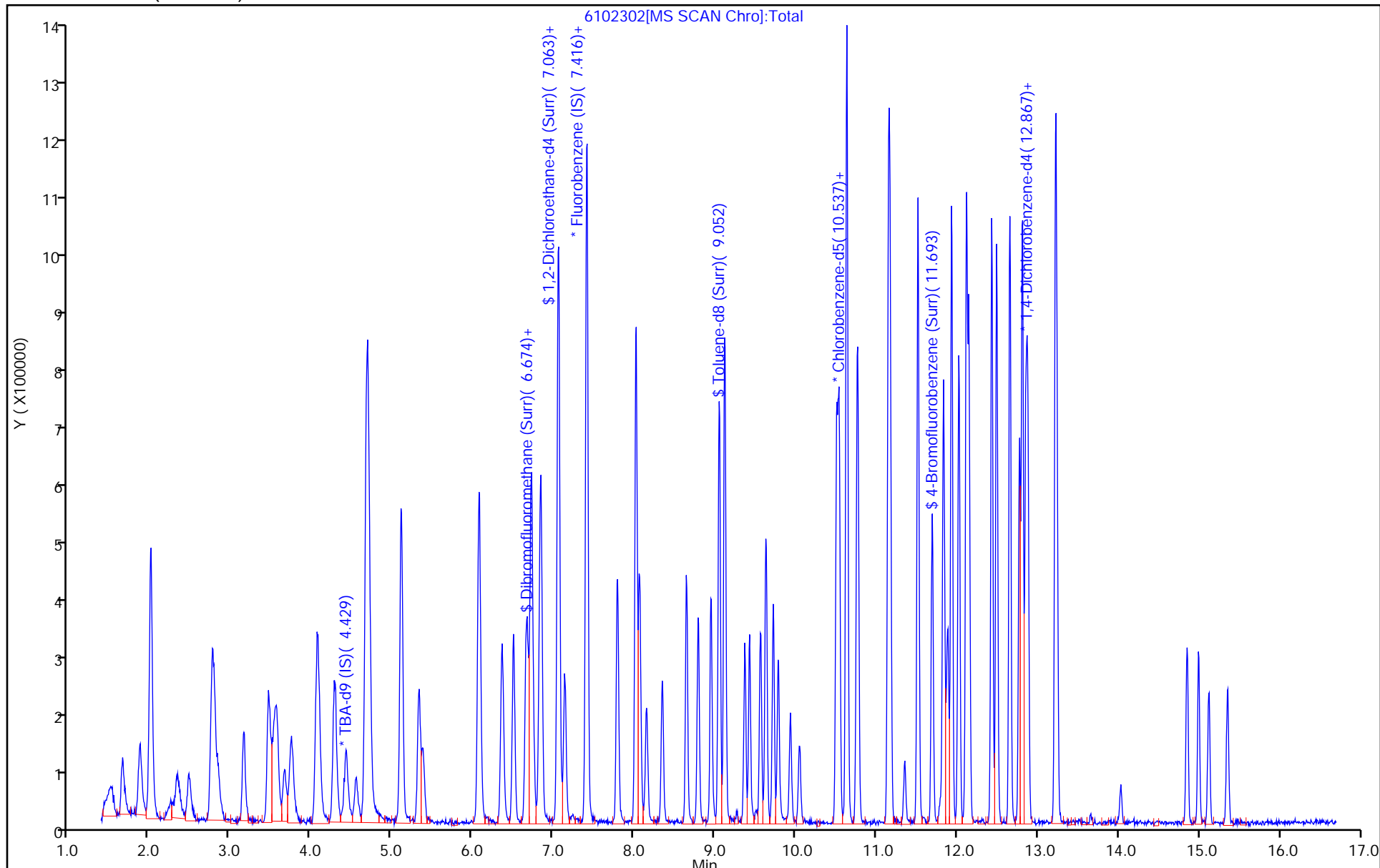
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C_D ICAL

Column: DB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1
 SDG No.: _____
 Lab Sample ID: CCVIS 180-295765/2 Calibration Date: 10/23/2019 09:50
 Instrument ID: CHHP6 Calib Start Date: 10/18/2019 15:43
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 10/18/2019 18:47
 Lab File ID: 6102302.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.5067	0.3887	0.1000	7.67	10.0	-23.3*	20.0
Chloromethane	Ave	0.4226	0.5108	0.1000	12.1	10.0	20.9*	20.0
Vinyl chloride	Ave	0.3587	0.3878	0.1000	10.8	10.0	8.1	20.0
1,3-Butadiene	Ave	0.4083	0.4634	0.0100	11.4	10.0	13.5	20.0
Bromomethane	Ave	0.1514	0.1546	0.0500	10.2	10.0	2.1	20.0
Chloroethane	Lin2		0.2199	0.0500	12.7	10.0	27.1*	20.0
Dichlorofluoromethane	Ave	0.5014	0.5457	0.0100	10.9	10.0	8.8	20.0
Trichlorofluoromethane	Ave	0.5723	0.5099	0.1000	8.91	10.0	-10.9	20.0
Ethyl ether	Ave	0.2222	0.2422	0.0100	10.9	10.0	9.0	20.0
1,1-Dichloroethene	Ave	0.2393	0.2464	0.1000	10.3	10.0	2.9	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2928	0.2821	0.1000	9.63	10.0	-3.7	20.0
Acetone	Ave	0.1411	0.1357	0.0500	19.2	20.0	-3.8	20.0
Iodomethane	Ave	0.3874	0.3481	0.0100	8.99	10.0	-10.1	20.0
Carbon disulfide	Ave	0.6495	0.6550	0.1000	10.1	10.0	0.8	20.0
Allyl chloride	Ave	0.1407	0.1455	0.0100	10.3	10.0	3.4	20.0
Methyl acetate	Ave	0.1890	0.2653	0.1000	28.1	20.0	40.4*	20.0
Methylene Chloride	Lin2		0.3160	0.1000	11.1	10.0	10.9	20.0
tert-Butyl alcohol	Ave	1.035	1.040	0.0100	101	100	0.5	20.0
Acrylonitrile	Ave	0.0956	0.1250	0.0100	131	100	30.8*	20.0
trans-1,2-Dichloroethene	Ave	0.2882	0.2901	0.1000	10.1	10.0	0.6	20.0
Methyl tert-butyl ether	Ave	0.6231	0.5963	0.1000	9.57	10.0	-4.3	20.0
Hexane	Ave	0.4992	0.6251	0.0100	12.5	10.0	25.2*	20.0
1,1-Dichloroethane	Ave	0.5036	0.5587	0.2000	11.1	10.0	10.9	20.0
Vinyl acetate	Ave	0.4253	0.4356	0.0100	10.2	10.0	2.4	20.0
2,2-Dichloropropane	Ave	0.0600	0.0466	0.0100	7.76	10.0	-22.4*	20.0
cis-1,2-Dichloroethene	Ave	0.2997	0.2874	0.1000	9.59	10.0	-4.1	20.0
2-Butanone (MEK)	Ave	0.1414	0.1674	0.0500	23.7	20.0	18.4	20.0
Bromochloromethane	Ave	0.1366	0.1202	0.0100	8.80	10.0	-12.0	20.0
Tetrahydrofuran	Lin2		0.0873	0.0100	25.6	20.0	27.9*	20.0
Chloroform	Ave	0.5198	0.5009	0.2000	9.64	10.0	-3.6	20.0
1,1,1-Trichloroethane	Ave	0.4407	0.4140	0.1000	9.40	10.0	-6.0	20.0
Cyclohexane	Ave	0.6008	0.7072	0.1000	11.8	10.0	17.7	20.0
Carbon tetrachloride	Ave	0.3730	0.3503	0.1000	9.39	10.0	-6.1	20.0
1,1-Dichloropropene	Ave	0.4008	0.4010	0.0100	10.0	10.0	0.0	20.0
Isobutyl alcohol	Ave	0.0060	0.0074*	0.0100	310	250	24.1*	20.0
Benzene	Ave	1.040	1.093	0.5000	10.5	10.0	5.1	20.0
1,2-Dichloroethane	Ave	0.4710	0.4457	0.1000	9.46	10.0	-5.4	20.0
n-Heptane	Ave	0.4867	0.6113	0.0100	12.6	10.0	25.6*	20.0
Trichloroethene	Ave	0.3215	0.2796	0.2000	8.70	10.0	-13.0	20.0
Methylcyclohexane	Ave	0.5380	0.5755	0.1000	10.7	10.0	7.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1

SDG No.: _____

Lab Sample ID: CCVIS 180-295765/2 Calibration Date: 10/23/2019 09:50

Instrument ID: CHHP6 Calib Start Date: 10/18/2019 15:43

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 10/18/2019 18:47

Lab File ID: 6102302.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Ave	0.2481	0.2919	0.1000	11.8	10.0	17.7	20.0
1,4-Dioxane	Qua		0.0021*	0.0100	237	200	18.6	20.0
Dibromomethane	Ave	0.1479	0.1427	0.0100	9.65	10.0	-3.5	20.0
Bromodichloromethane	Ave	0.3137	0.3137	0.2000	10.0	10.0	0.0	20.0
cis-1,3-Dichloropropene	Ave	0.3238	0.3539	0.2000	10.9	10.0	9.3	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.8475	1.239	0.1000	29.2	20.0	46.2*	20.0
Toluene	Ave	4.498	5.219	0.4000	11.6	10.0	16.0	20.0
trans-1,3-Dichloropropene	Lin2		1.312	0.1000	10.8	10.0	7.9	20.0
Ethyl methacrylate	Ave	1.076	1.259	0.0100	11.7	10.0	16.9	20.0
1,1,2-Trichloroethane	Ave	0.8300	0.9683	0.1000	11.7	10.0	16.7	20.0
Tetrachloroethene	Ave	0.9460	1.045	0.2000	11.0	10.0	10.5	20.0
1,3-Dichloropropane	Ave	1.447	1.597	0.0100	11.0	10.0	10.4	20.0
2-Hexanone	Ave	0.6963	0.9534	0.1000	27.4	20.0	36.9*	20.0
Dibromochloromethane	Ave	0.8099	0.8394	0.1000	10.4	10.0	3.6	20.0
1,2-Dibromoethane (EDB)	Ave	0.8438	0.9218	0.1000	10.9	10.0	9.2	20.0
Chlorobenzene	Ave	2.986	3.092	0.5000	10.4	10.0	3.6	20.0
1,1,1,2-Tetrachloroethane	Ave	0.9559	0.9867	0.0100	10.3	10.0	3.2	20.0
Ethylbenzene	Ave	1.750	1.986	0.1000	11.4	10.0	13.5	20.0
m-Xylene & p-Xylene	Ave	2.137	2.371	0.1000	11.1	10.0	10.9	20.0
o-Xylene	Ave	2.056	2.309	0.3000	11.2	10.0	12.3	20.0
Styrene	Ave	3.267	3.751	0.3000	11.5	10.0	14.8	20.0
Bromoform	Ave	0.4190	0.4571	0.1000	10.9	10.0	9.1	20.0
Isopropylbenzene	Ave	5.433	6.056	0.1000	11.1	10.0	11.5	20.0
1,1,2,2-Tetrachloroethane	Ave	0.8808	0.9940	0.3000	11.3	10.0	12.8	20.0
Bromobenzene	Ave	0.7896	0.7655	0.0100	9.69	10.0	-3.1	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2472	0.2594	0.0100	10.5	10.0	4.9	20.0
1,2,3-Trichloropropane	Ave	0.2643	0.2700	0.0100	10.2	10.0	2.1	20.0
N-Propylbenzene	Ave	1.081	1.070	0.0100	9.90	10.0	-1.0	20.0
2-Chlorotoluene	Ave	0.8581	0.8363	0.0100	9.75	10.0	-2.5	20.0
1,3,5-Trimethylbenzene	Ave	3.165	3.277	0.0100	10.4	10.0	3.5	20.0
4-Chlorotoluene	Ave	0.9011	0.8764	0.0100	9.73	10.0	-2.7	20.0
tert-Butylbenzene	Ave	2.770	2.654	0.0100	9.58	10.0	-4.2	20.0
1,2,4-Trimethylbenzene	Ave	3.113	3.218	0.0100	10.3	10.0	3.4	20.0
sec-Butylbenzene	Ave	3.867	4.129	0.0100	10.7	10.0	6.8	20.0
1,3-Dichlorobenzene	Ave	1.482	1.511	0.6000	10.2	10.0	1.9	20.0
4-Isopropyltoluene	Ave	3.374	3.249	0.0100	9.63	10.0	-3.7	20.0
1,4-Dichlorobenzene	Ave	1.473	1.512	0.5000	10.3	10.0	2.7	20.0
n-Butylbenzene	Ave	2.839	2.889	0.0100	10.2	10.0	1.8	20.0
1,2-Dichlorobenzene	Ave	1.345	1.406	0.4000	10.5	10.0	4.5	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0896	0.0903	0.0500	10.1	10.0	0.8	20.0
1,2,4-Trichlorobenzene	Ave	0.6564	0.5683	0.2000	8.66	10.0	-13.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1
 SDG No.: _____
 Lab Sample ID: CCVIS 180-295765/2 Calibration Date: 10/23/2019 09:50
 Instrument ID: CHHP6 Calib Start Date: 10/18/2019 15:43
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 10/18/2019 18:47
 Lab File ID: 6102302.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Hexachlorobutadiene	Ave	0.4107	0.2763	0.0100	6.73	10.0	-32.7*	20.0
Naphthalene	Ave	1.409	1.129	0.0100	8.02	10.0	-19.8	20.0
1,2,3-Trichlorobenzene	Ave	0.5144	0.4294	0.0100	8.35	10.0	-16.5	20.0
Dibromofluoromethane (Surr)	Ave	0.2349	0.2231		9.50	10.0	-5.0	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3590	0.3683		10.3	10.0	2.6	20.0
Toluene-d8 (Surr)	Ave	3.637	4.093		11.3	10.0	12.5	20.0
4-Bromofluorobenzene (Surr)	Ave	1.502	1.634		10.9	10.0	8.8	20.0

Eurofins TestAmerica, Pittsburgh
Target Compound Quantitation Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\6102302.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 23-Oct-2019 09:50:30 ALS Bottle#: 2 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-0029242-002
 Misc. Info.: CCVIS
 Operator ID: 433269 Instrument ID: CHHP6
 Sublist: chrom-MSVOA_LL_CHHP6*sub127

Method: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C_D ICAL
 Last Update: 24-Oct-2019 08:47:06 Calib Date: 18-Oct-2019 18:47:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101817.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX0337

First Level Reviewer: bowieh

Date: 24-Oct-2019 08:47:06

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.435	4.435	0.000	88	184774	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.410	7.410	0.000	97	538429	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.512	10.512	0.000	91	122643	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.854	12.854	0.000	97	191029	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.686	6.686	0.000	92	120118	50.0	47.5	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	7.051	7.051	0.000	60	198305	50.0	51.3	
\$ 7 Toluene-d8 (Surr)	98	9.052	9.052	0.000	95	501993	50.0	56.3	
\$ 8 4-Bromofluorobenzene (Surr	95	11.693	11.693	0.000	0	200366	50.0	54.4	
11 Dichlorodifluoromethane	85	1.667	1.667	0.000	98	209287	50.0	38.4	
12 Chloromethane	50	1.874	1.874	0.000	98	275043	50.0	60.4	
13 Vinyl chloride	62	2.002	2.002	0.000	63	208807	50.0	54.1	
14 Butadiene	39	2.008	2.008	0.000	99	249503	50.0	56.8	
15 Bromomethane	94	2.342	2.342	0.000	93	83238	50.0	51.1	
16 Chloroethane	64	2.488	2.488	0.000	98	118400	50.0	63.5	
17 Dichlorofluoromethane	67	2.780	2.780	0.000	95	293819	50.0	54.4	
18 Trichlorofluoromethane	101	2.792	2.792	0.000	96	274555	50.0	44.5	
20 Ethyl ether	59	3.170	3.170	0.000	96	130379	50.0	54.5	
22 1,1-Dichloroethene	96	3.468	3.468	0.000	92	132649	50.0	51.5	
23 1,1,2-Trichloro-1,2,2-trif	101	3.553	3.553	0.000	95	151880	50.0	48.2	
24 Acetone	43	3.583	3.583	0.000	97	146140	100.0	96.2	
25 Iodomethane	142	3.662	3.662	0.000	100	187451	50.0	44.9	
26 Carbon disulfide	76	3.754	3.754	0.000	99	352684	50.0	50.4	
29 3-Chloro-1-propene	76	4.070	4.070	0.000	89	78360	50.0	51.7	
30 Methyl acetate	43	4.100	4.100	0.000	100	285713	100.0	140.4	
31 Methylene Chloride	84	4.295	4.295	0.000	95	170123	50.0	55.4	
32 2-Methyl-2-propanol	59	4.551	4.551	0.000	93	96112	500.0	502.7	
33 Acrylonitrile	53	4.678	4.678	0.000	100	673255	500.0	653.8	
34 trans-1,2-Dichloroethene	96	4.703	4.703	0.000	95	156202	50.0	50.3	
35 Methyl tert-butyl ether	73	4.709	4.709	0.000	98	321040	50.0	47.8	
36 Hexane	57	5.110	5.110	0.000	97	336595	50.0	62.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
37 1,1-Dichloroethane	63	5.335	5.335	0.000	97	300826	50.0	55.5	
38 Vinyl acetate	43	5.384	5.384	0.000	97	234560	50.0	51.2	a
42 2,2-Dichloropropane	97	6.065	6.065	0.000	69	25075	50.0	38.8	
43 cis-1,2-Dichloroethene	96	6.077	6.077	0.000	89	154749	50.0	47.9	
44 2-Butanone (MEK)	43	6.090	6.090	0.000	93	180237	100.0	118.4	
48 Chlorobromomethane	128	6.363	6.363	0.000	88	64711	50.0	44.0	
49 Tetrahydrofuran	42	6.376	6.376	0.000	0	94052	100.0	127.9	
50 Chloroform	83	6.503	6.503	0.000	97	269699	50.0	48.2	
51 1,1,1-Trichloroethane	97	6.661	6.661	0.000	96	222929	50.0	47.0	
52 Cyclohexane	56	6.728	6.728	0.000	95	380765	50.0	58.9	
53 Carbon tetrachloride	117	6.826	6.826	0.000	96	188635	50.0	47.0	
54 1,1-Dichloropropene	75	6.844	6.844	0.000	89	215882	50.0	50.0	
55 Isobutyl alcohol	41	7.057	7.057	0.000	47	100209	1250.0	1551.0	
56 Benzene	78	7.063	7.063	0.000	94	588265	50.0	52.5	
57 1,2-Dichloroethane	62	7.136	7.136	0.000	97	239949	50.0	47.3	
59 n-Heptane	43	7.416	7.416	0.000	96	329132	50.0	62.8	
61 Trichloroethene	130	7.793	7.793	0.000	95	150545	50.0	43.5	
63 Methylcyclohexane	83	8.024	8.024	0.000	96	309838	50.0	53.5	
64 1,2-Dichloropropane	63	8.067	8.067	0.000	90	157180	50.0	58.8	
65 1,4-Dioxane	88	8.146	8.146	0.000	45	22998	1000.0	1185.8	
67 Dibromomethane	93	8.146	8.146	0.000	93	76842	50.0	48.3	
68 Dichlorobromomethane	83	8.347	8.347	0.000	96	168895	50.0	50.0	
70 2-Chloroethyl vinyl ether	63	8.651	8.651	0.000	95	184698	100.0	97.0	
71 cis-1,3-Dichloropropene	75	8.791	8.791	0.000	87	190564	50.0	54.7	
72 4-Methyl-2-pentanone (MIBK)	43	8.949	8.949	0.000	98	303855	100.0	146.2	
73 Toluene	91	9.119	9.119	0.000	97	640091	50.0	58.0	
74 trans-1,3-Dichloropropene	75	9.369	9.369	0.000	98	160858	50.0	54.0	
75 Ethyl methacrylate	69	9.429	9.429	0.000	93	154351	50.0	58.5	
76 1,1,2-Trichloroethane	97	9.563	9.563	0.000	92	118751	50.0	58.3	
77 Tetrachloroethene	164	9.636	9.636	0.000	95	128188	50.0	55.2	
78 1,3-Dichloropropane	76	9.721	9.721	0.000	95	195860	50.0	55.2	
79 2-Hexanone	43	9.782	9.782	0.000	99	233854	100.0	136.9	
81 Chlorodibromomethane	129	9.934	9.934	0.000	90	102940	50.0	51.8	
82 Ethylene Dibromide	107	10.044	10.044	0.000	100	113054	50.0	54.6	
84 Chlorobenzene	112	10.537	10.537	0.000	90	379264	50.0	51.8	
86 1,1,1,2-Tetrachloroethane	131	10.634	10.634	0.000	88	121014	50.0	51.6	
87 Ethylbenzene	106	10.634	10.634	0.000	98	243615	50.0	56.8	
88 m-Xylene & p-Xylene	106	10.768	10.768	0.000	99	290813	50.0	55.5	
89 o-Xylene	106	11.151	11.151	0.000	98	283156	50.0	56.1	
90 Styrene	104	11.169	11.169	0.000	94	460075	50.0	57.4	
91 Bromoform	173	11.352	11.352	0.000	94	56054	50.0	54.5	
93 Isopropylbenzene	105	11.516	11.516	0.000	97	742721	50.0	55.7	
95 Bromobenzene	156	11.832	11.832	0.000	97	146228	50.0	48.5	
96 1,1,2,2-Tetrachloroethane	83	11.832	11.832	0.000	70	121906	50.0	56.4	
97 trans-1,4-Dichloro-2-buten	53	11.869	11.869	0.000	74	49550	50.0	52.5	
98 1,2,3-Trichloropropane	110	11.887	11.887	0.000	86	51580	50.0	51.1	
99 N-Propylbenzene	120	11.936	11.936	0.000	98	204452	50.0	49.5	
100 2-Chlorotoluene	126	12.027	12.027	0.000	95	159761	50.0	48.7	
102 1,3,5-Trimethylbenzene	105	12.118	12.118	0.000	94	625929	50.0	51.8	
103 4-Chlorotoluene	126	12.143	12.143	0.000	99	167409	50.0	48.6	
104 tert-Butylbenzene	119	12.429	12.429	0.000	93	507022	50.0	47.9	
106 1,2,4-Trimethylbenzene	105	12.489	12.489	0.000	98	614764	50.0	51.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
108 sec-Butylbenzene	105	12.654	12.654	0.000	96	788748	50.0	53.4	
109 1,3-Dichlorobenzene	146	12.775	12.775	0.000	96	288610	50.0	51.0	
110 4-Isopropyltoluene	119	12.812	12.812	0.000	96	620683	50.0	48.2	
111 1,4-Dichlorobenzene	146	12.879	12.879	0.000	91	288897	50.0	51.3	
116 n-Butylbenzene	91	13.219	13.219	0.000	97	551960	50.0	50.9	
117 1,2-Dichlorobenzene	146	13.238	13.238	0.000	93	268494	50.0	52.3	
118 1,2-Dibromo-3-Chloropropan	75	14.029	14.035	-0.006	79	17254	50.0	50.4	
122 1,2,4-Trichlorobenzene	180	14.850	14.850	0.000	93	108553	50.0	43.3	
123 Hexachlorobutadiene	225	14.990	14.990	0.000	92	52786	50.0	33.6	
124 Naphthalene	128	15.124	15.124	0.000	98	215756	50.0	40.1	
125 1,2,3-Trichlorobenzene	180	15.355	15.355	0.000	95	82030	50.0	41.7	
S 130 1,2-Dichloroethene, Total	96				0		100.0	98.3	
S 131 Xylenes, Total	106				0		100.0	111.6	
S 154 Total BTEX	1				0		250.0	278.9	
S 132 1,3-Dichloropropene, Total	1				0		100.0	108.6	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

VOA8260VOAPRI_00376

Amount Added: 2.00

Units: uL

voaWKetmix1st_00019

Amount Added: 2.00

Units: uL

VOAVAPRI_00028

Amount Added: 2.00

Units: uL

VOACEVEPRI_00055

Amount Added: 2.00

Units: uL

voaWI/SHP5_00014

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\6102302.D

Injection Date: 23-Oct-2019 09:50:30

Instrument ID: CHHP6

Operator ID: 433269

Lims ID: CCVIS

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

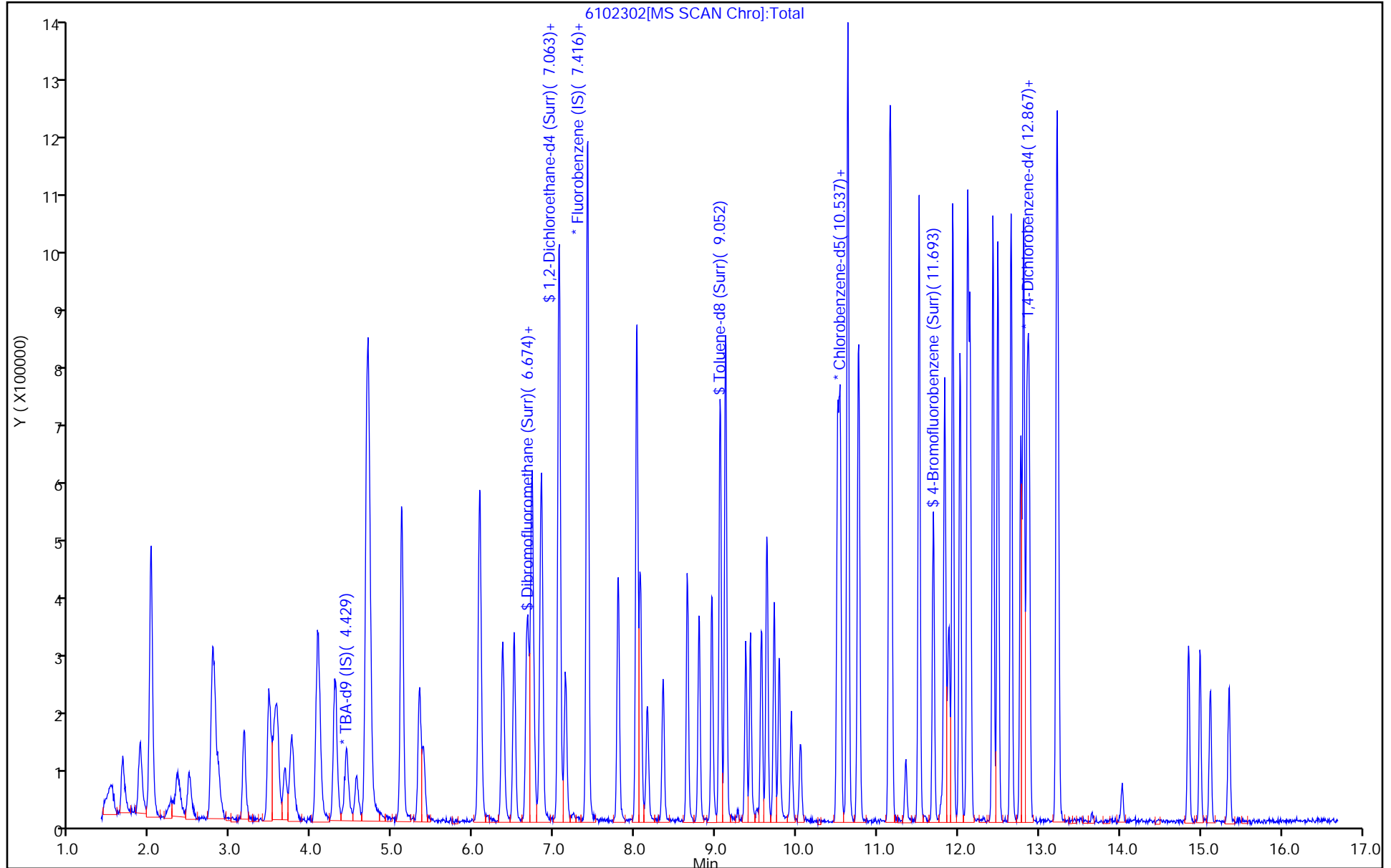
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C_D ICAL

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Pittsburgh

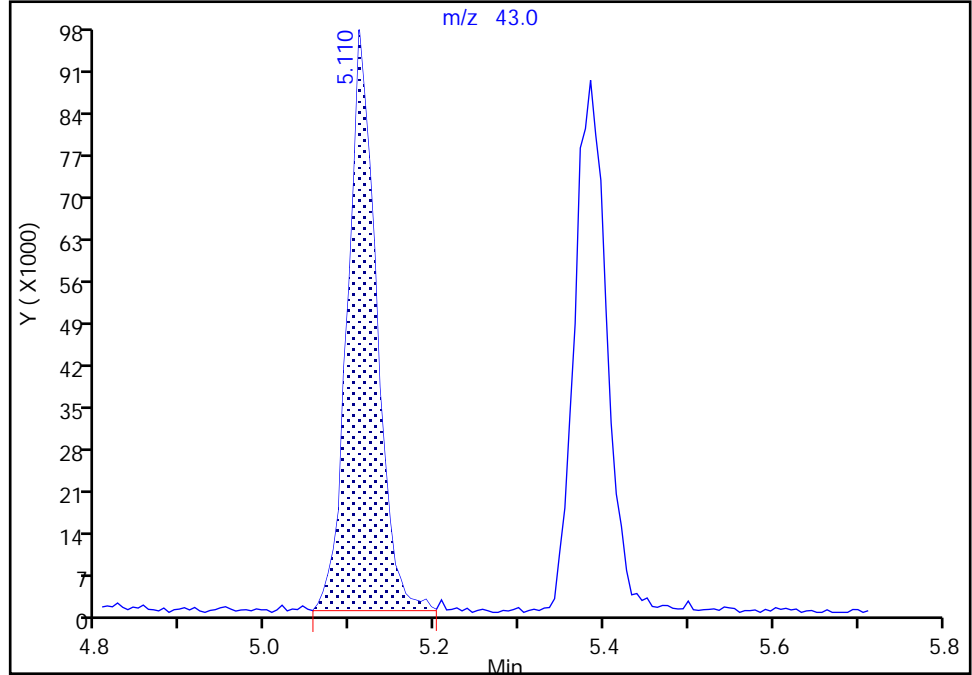
Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\6102302.D
Injection Date: 23-Oct-2019 09:50:30 Instrument ID: CHHP6
Lims ID: CCVIS
Client ID:
Operator ID: 433269 ALS Bottle#: 2 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

38 Vinyl acetate, CAS: 108-05-4

Signal: 1

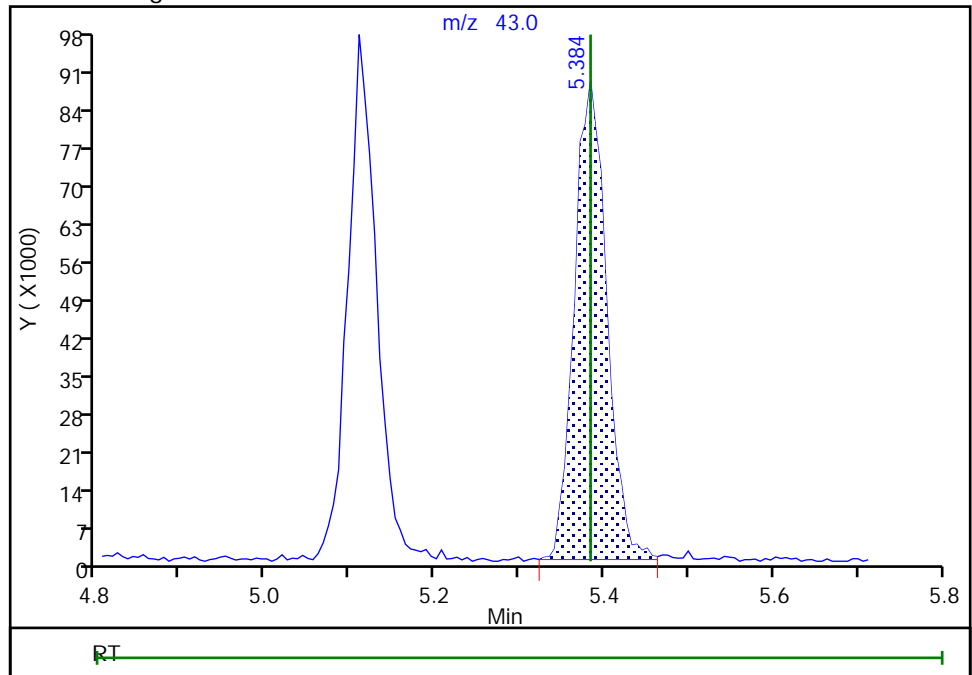
RT: 5.11
Area: 228994
Amount: 49.995884
Amount Units: ng

Processing Integration Results



RT: 5.38
Area: 234560
Amount: 51.211100
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 23-Oct-2019 11:16:38
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Pittsburgh
Target Compound Quantitation Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101807A.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 18-Oct-2019 14:05:30 ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 5.0 mL Dil. Factor: 1.0000
 Sample Info: 180-0029183-001
 Misc. Info.: bfb
 Operator ID: 433269 Instrument ID: CHHP6
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C_D ICAL
 Last Update: 19-Oct-2019 10:18:21 Calib Date: 18-Oct-2019 18:47:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101817.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX0306

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
\$ 10 BFB	95	8.456	8.456	0.000	0	105008	NR	NR	

QC Flag Legend

Processing Flags
 NR - Missing Quant Standard

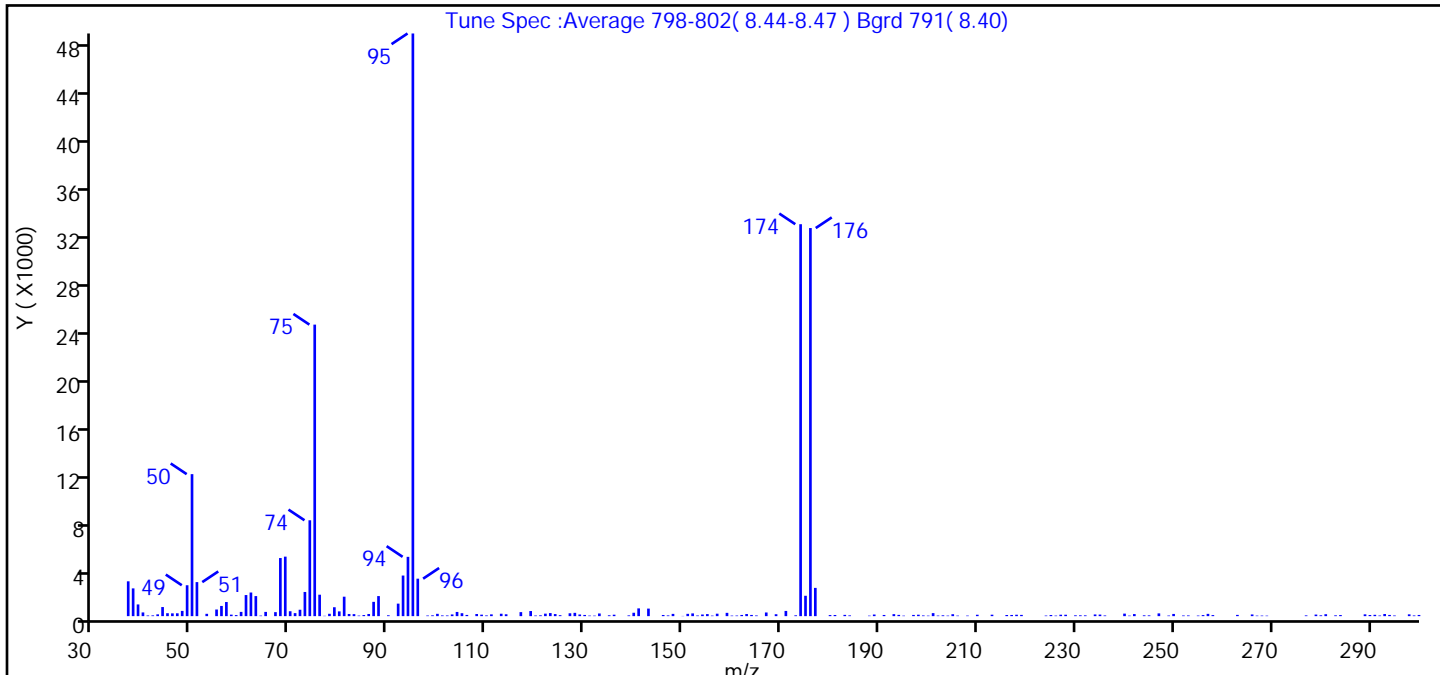
Reagents:

VOABFB25_00119 Amount Added: 1.00 Units: uL

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101807A.D
 Injection Date: 18-Oct-2019 14:05:30 Instrument ID: CHHP6
 Lims ID: BFB
 Client ID:
 Operator ID: 433269 ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 5.0 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Tune Method: BFB Method 8260

\$ 10 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	24.4
75	30 to 60% of m/z 95	50.0
96	5 to 9% of m/z 95	6.4
173	Less than 2% of m/z 174	0.1 (0.2)
174	50 to 120% of m/z 95	67.3
175	5 to 9% of m/z 174	3.5 (5.2)
176	Greater than 95% but less than 101% of m/z 174	66.6 (99.0)
177	5 to 9% of m/z 176	4.8 (7.3)

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101807A.D\MSVOA_LL_CHHP6.rsl\spectr
Injection Date: 18-Oct-2019 14:05:30
Spectrum: Tune Spec :Average 798-802(8.44-8.47) Bgrd 791(8.40)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 190

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	2897	88.00	1669	152.00	228	224.00	48
38.00	2309	90.00	71	153.00	54	225.00	94
39.00	974	92.00	1041	154.00	136	226.00	45
40.00	309	93.00	3377	155.00	171	227.00	118
41.00	55	94.00	4933	156.00	44	228.00	116
42.00	63	95.00	48464	157.00	204	230.00	68
43.00	150	96.00	3116	159.00	274	231.00	68
44.00	756	98.00	52	160.00	45	232.00	65
45.00	244	99.00	67	161.00	50	234.00	140
46.00	232	100.00	193	162.00	99	235.00	130
47.00	237	101.00	59	163.00	176	236.00	57
48.00	436	102.00	56	164.00	100	240.00	209
49.00	2570	103.00	141	165.00	57	241.00	42
50.00	11811	104.00	349	167.00	305	242.00	172
51.00	2831	105.00	244	169.00	160	244.00	67
53.00	194	106.00	101	171.00	433	245.00	64
55.00	552	108.00	177	173.00	68	247.00	229
56.00	848	109.00	124	174.00	32600	249.00	49
57.00	1174	110.00	60	175.00	1694	250.00	183
58.00	125	111.00	147	176.00	32280	252.00	54
59.00	88	113.00	201	177.00	2350	253.00	58
60.00	353	114.00	156	180.00	90	255.00	48
61.00	1754	117.00	334	181.00	95	256.00	88
62.00	1965	119.00	424	183.00	105	257.00	190
63.00	1668	120.00	52	184.00	62	258.00	88
64.00	44	121.00	68	188.00	40	263.00	104
65.00	353	122.00	207	189.00	134	266.00	140
67.00	332	123.00	255	191.00	98	267.00	43
68.00	4833	124.00	173	193.00	166	268.00	46
69.00	4949	125.00	78	194.00	105	269.00	40
70.00	407	127.00	239	195.00	40	277.00	62
71.00	251	128.00	275	197.00	101	279.00	131
72.00	533	129.00	137	198.00	119	280.00	68

Report Date: 19-Oct-2019 10:18:22

Chrom Revision: 2.3 09-Oct-2019 11:13:36

Data File:

\\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101807A.D\MSVOA_LL_CHHP6.rsl\spectr

Injection Date:

18-Oct-2019 14:05:30

Spectrum:

Tune Spec :Average 798-802(8.44-8.47) Bgrd 791(8.40)

Base Peak:

95.00

Minimum % Base Peak: 0

Number of Points:

190

m/z	Y	m/z	Y	m/z	Y	m/z	Y
73.00	2011	130.00	99	199.00	58	281.00	160
74.00	7974	131.00	46	200.00	42	283.00	67
75.00	24248	132.00	42	201.00	251	284.00	90
76.00	1783	133.00	222	202.00	48	289.00	150
77.00	26	135.00	71	203.00	69	290.00	94
78.00	196	136.00	120	204.00	44	291.00	111
79.00	741	139.00	62	205.00	160	292.00	52
80.00	396	140.00	282	206.00	43	293.00	177
81.00	1618	141.00	645	208.00	45	294.00	100
82.00	180	143.00	628	210.00	116	295.00	54
83.00	168	146.00	96	213.00	120	298.00	149
84.00	45	147.00	60	216.00	95	299.00	58
85.00	91	148.00	188	217.00	98	300.00	99
86.00	180	150.00	17	218.00	116		
87.00	1189	151.00	192	219.00	104		

Report Date: 19-Oct-2019 10:18:22

Chrom Revision: 2.3 09-Oct-2019 11:13:36

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101807A.D

Injection Date: 18-Oct-2019 14:05:30

Instrument ID: CHHP6

Operator ID: 433269

Lims ID: BFB

Worklist Smp#: 1

Client ID:

Injection Vol: 5.0 mL

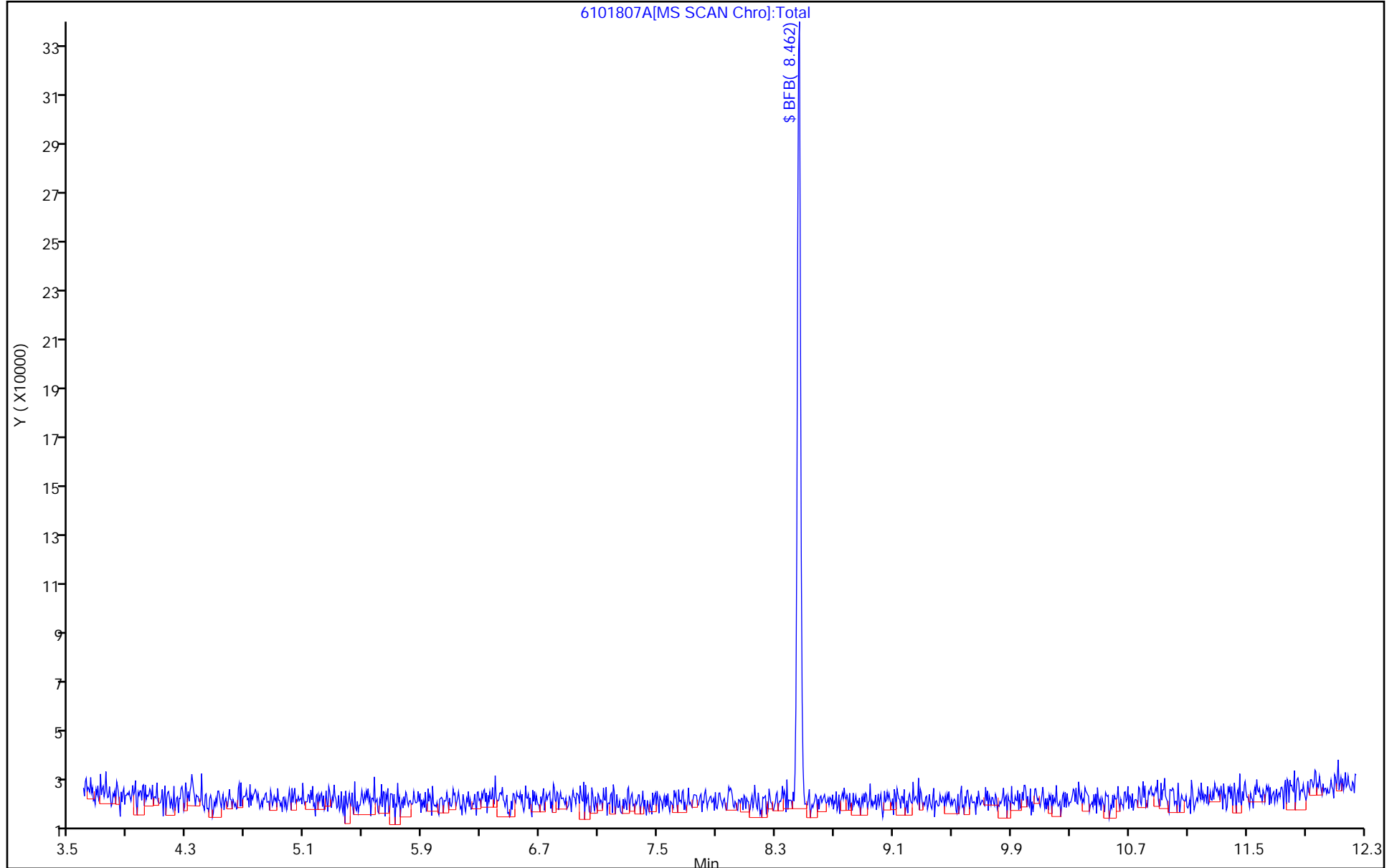
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C_D ICAL

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Pittsburgh
 Target Compound Quantitation Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101901D.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 19-Oct-2019 12:45:30 ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 5.0 mL Dil. Factor: 1.0000
 Sample Info: 180-0029191-001
 Misc. Info.: BFB
 Operator ID: 433269 Instrument ID: CHHP6
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C_D ICAL
 Last Update: 22-Oct-2019 09:13:18 Calib Date: 18-Oct-2019 18:47:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101817.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX0302

First Level Reviewer: bowieh Date: 22-Oct-2019 09:13:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
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\$ 10 BFB	95	8.461	8.461	0.000	0	111214	NR	NR	
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

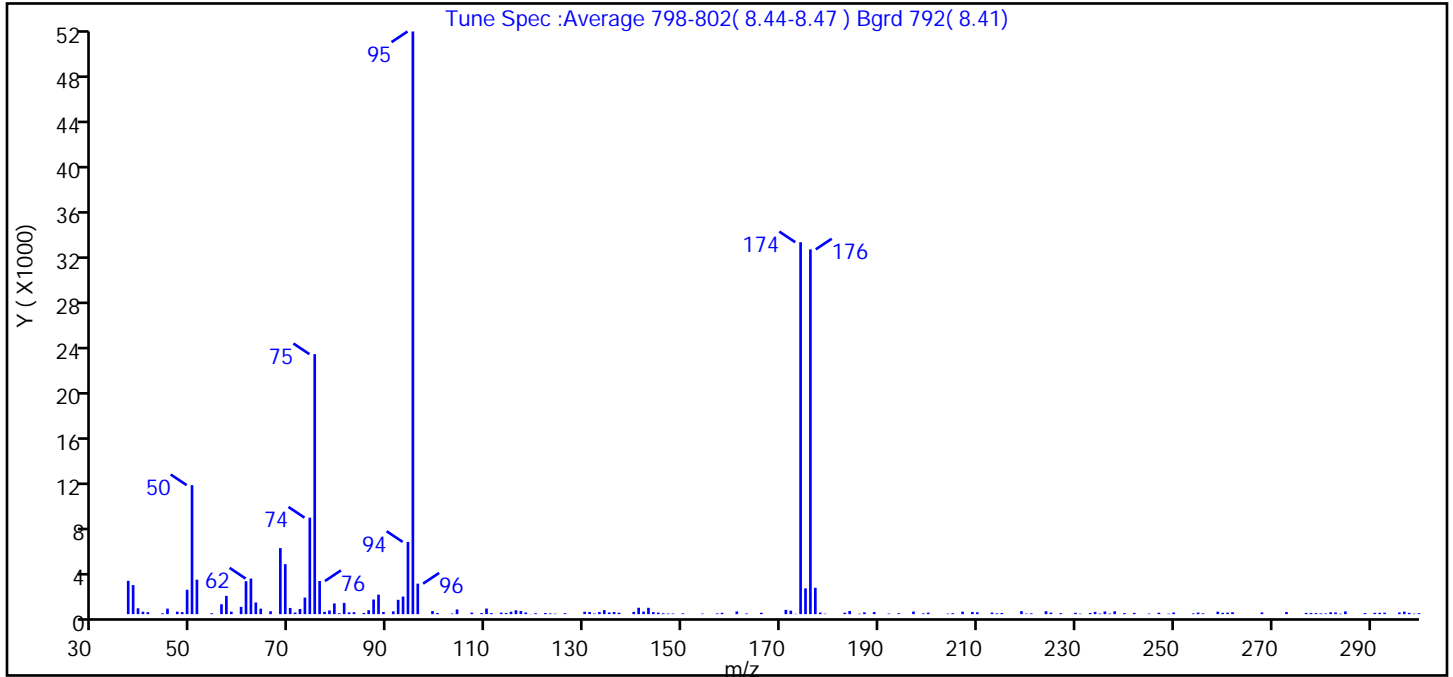
Reagents:

VOABFB25_00119 Amount Added: 1.00 Units: uL

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101901D.D
 Injection Date: 19-Oct-2019 12:45:30 Instrument ID: CHHP6
 Lims ID: BFB
 Client ID:
 Operator ID: 433269 ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 5.0 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Tune Method: BFB Method 8260

\$ 10 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	22.1
75	30 to 60% of m/z 95	44.6
96	5 to 9% of m/z 95	5.2
173	Less than 2% of m/z 174	0.1 (0.1)
174	50 to 120% of m/z 95	63.8
175	5 to 9% of m/z 174	4.4 (6.9)
176	Greater than 95% but less than 101% of m/z 174	62.6 (98.1)
177	5 to 9% of m/z 176	4.5 (7.2)

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101901D.D\MSVOA_LL_CHHP6.rsl\spectr
Injection Date: 19-Oct-2019 12:45:30
Spectrum: Tune Spec :Average 798-802(8.44-8.47) Bgrd 792(8.41)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 167

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	2942	89.00	187	147.00	53	230.00	121
38.00	2571	91.00	248	148.00	52	231.00	42
39.00	519	92.00	1265	150.00	70	233.00	102
40.00	217	93.00	1555	154.00	45	234.00	199
41.00	177	94.00	6381	157.00	63	235.00	51
44.00	74	95.00	51472	158.00	120	236.00	236
45.00	487	96.00	2696	161.00	239	237.00	54
47.00	222	99.00	274	163.00	58	238.00	250
48.00	180	100.00	99	166.00	124	240.00	96
49.00	2155	103.00	53	171.00	378	242.00	112
50.00	11395	104.00	414	172.00	309	245.00	52
51.00	3046	107.00	134	173.00	27	247.00	128
54.00	81	109.00	95	174.00	32856	249.00	43
56.00	873	110.00	494	175.00	2276	250.00	142
57.00	1614	111.00	95	176.00	32224	254.00	66
58.00	219	113.00	131	177.00	2332	255.00	139
60.00	643	114.00	106	178.00	145	256.00	71
61.00	2910	115.00	211	179.00	43	259.00	220
62.00	3144	116.00	342	183.00	129	260.00	113
63.00	1030	117.00	282	184.00	276	261.00	138
64.00	484	118.00	147	186.00	42	262.00	170
66.00	254	119.00	14	187.00	159	268.00	153
68.00	5834	120.00	80	189.00	184	273.00	190
69.00	4417	122.00	103	192.00	50	277.00	113
70.00	547	123.00	63	194.00	81	278.00	105
71.00	140	124.00	41	197.00	231	279.00	88
72.00	457	126.00	81	199.00	70	280.00	66
73.00	1461	130.00	212	200.00	133	281.00	60
74.00	8526	131.00	188	204.00	48	282.00	165
75.00	22968	132.00	56	205.00	84	283.00	150
76.00	2924	133.00	180	207.00	219	284.00	40
77.00	204	134.00	356	209.00	187	285.00	241
78.00	323	135.00	151	210.00	161	289.00	94

Report Date: 22-Oct-2019 09:13:20

Chrom Revision: 2.3 09-Oct-2019 11:13:36

Data File:

\\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101901D.DMSVOA_LL_CHHP6.rsl\spectr

Injection Date:

19-Oct-2019 12:45:30

Spectrum:

Tune Spec :Average 798-802(8.44-8.47) Bgrd 792(8.41)

Base Peak:

95.00

Minimum % Base Peak: 0

Number of Points:

167

m/z	Y	m/z	Y	m/z	Y	m/z	Y
79.00	947	136.00	191	213.00	141	291.00	121
80.00	81	137.00	127	214.00	70	292.00	125
81.00	991	140.00	205	215.00	105	293.00	129
82.00	158	141.00	566	219.00	262	296.00	145
83.00	174	142.00	227	220.00	47	297.00	220
85.00	104	143.00	561	221.00	71	298.00	119
86.00	347	144.00	181	224.00	258	299.00	43
87.00	1292	145.00	141	225.00	134	300.00	84
88.00	1722	146.00	78	227.00	86		

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101901D.D

Injection Date: 19-Oct-2019 12:45:30

Instrument ID: CHHP6

Operator ID: 433269

Lims ID: BFB

Worklist Smp#: 1

Client ID:

Injection Vol: 5.0 mL

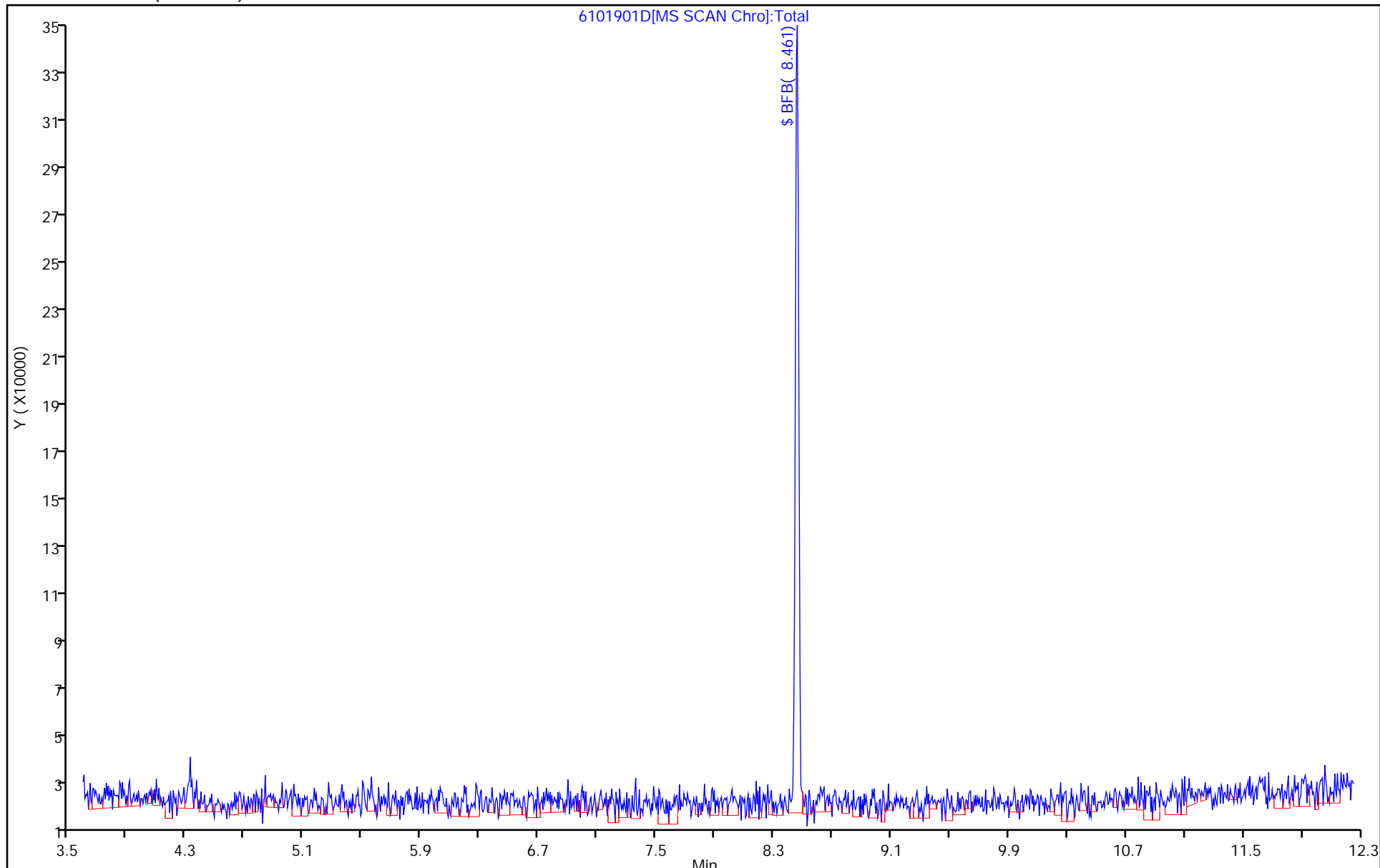
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C_D ICAL

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Pittsburgh
Target Compound Quantitation Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\6102301.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 23-Oct-2019 09:16:30 ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 5.0 mL Dil. Factor: 1.0000
 Sample Info: 180-0029242-001
 Misc. Info.: BFB
 Operator ID: 433269 Instrument ID: CHHP6
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C_D ICAL
 Last Update: 24-Oct-2019 08:46:54 Calib Date: 18-Oct-2019 18:47:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101817.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX0337

First Level Reviewer: bowieh Date: 24-Oct-2019 08:46:54

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
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\$ 10 BFB	95	8.461	8.461	0.000	0	95524	NR	NR	
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

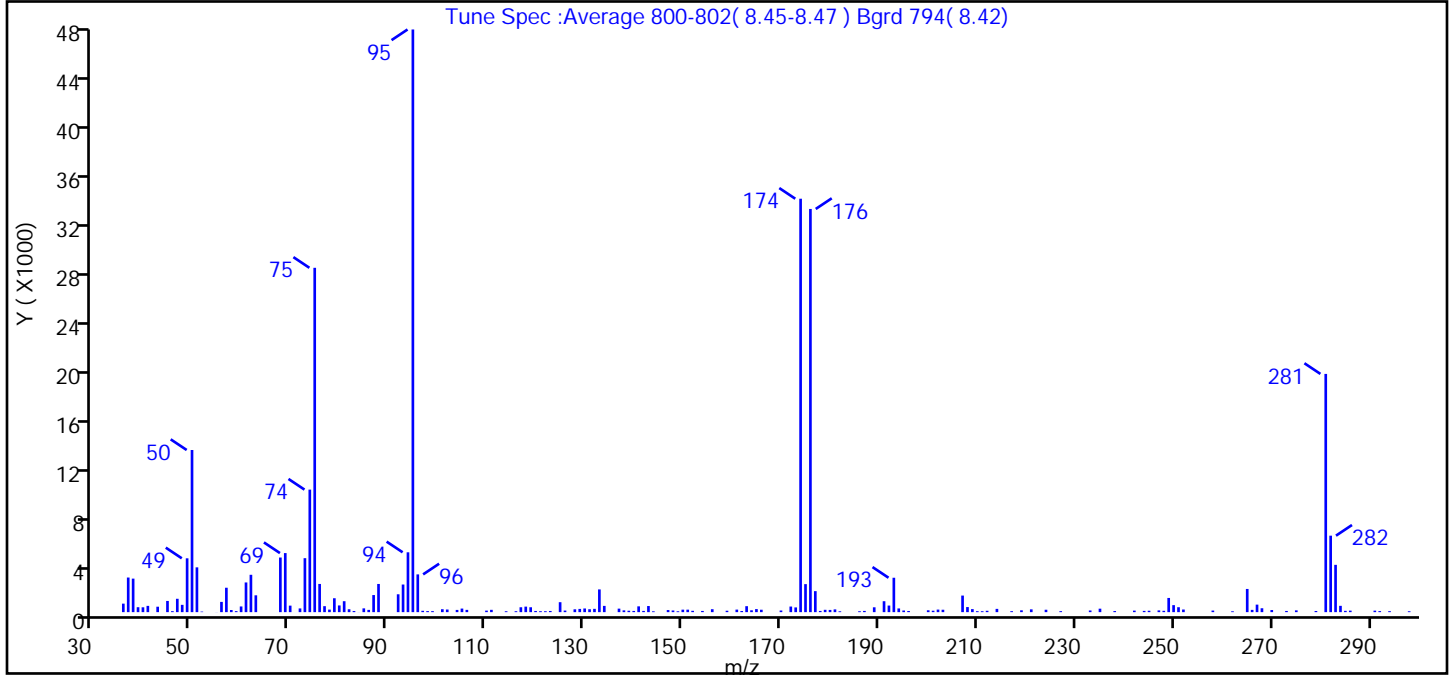
Reagents:

VOABFB25_00119 Amount Added: 1.00 Units: uL

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\6102301.D
 Injection Date: 23-Oct-2019 09:16:30 Instrument ID: CHHP6
 Lims ID: BFB
 Client ID:
 Operator ID: 433269 ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 5.0 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Tune Method: BFB Method 8260

\$ 10 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	27.8
75	30 to 60% of m/z 95	59.1
96	5 to 9% of m/z 95	6.5
173	Less than 2% of m/z 174	0.8 (1.1)
174	50 to 120% of m/z 95	71.0
175	5 to 9% of m/z 174	4.8 (6.8)
176	Greater than 95% but less than 101% of m/z 174	69.2 (97.5)
177	5 to 9% of m/z 176	3.6 (5.2)

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\6102301.D\MSVOA_LL_CHHP6.rslt\spectra
Injection Date: 23-Oct-2019 09:16:30
Spectrum: Tune Spec :Average 800-802(8.45-8.47) Bgrd 794(8.42)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 169

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	699	88.00	2314	148.00	136	211.00	75
37.00	2842	92.00	1467	149.00	71	212.00	112
38.00	2752	93.00	2268	150.00	204	214.00	268
39.00	405	94.00	4914	151.00	204	217.00	79
40.00	398	95.00	47840	152.00	109	219.00	151
41.00	515	96.00	3100	154.00	98	221.00	229
43.00	446	97.00	110	156.00	241	224.00	197
45.00	918	98.00	86	159.00	115	227.00	82
46.00	80	99.00	82	161.00	209	233.00	137
47.00	1097	101.00	240	162.00	92	235.00	284
48.00	599	102.00	215	163.00	490	238.00	88
49.00	4420	104.00	182	164.00	152	242.00	125
50.00	13312	105.00	293	165.00	251	244.00	102
51.00	3678	106.00	186	166.00	198	245.00	115
52.00	45	110.00	126	170.00	135	247.00	144
55.00	6	111.00	190	172.00	460	248.00	109
56.00	841	114.00	73	173.00	388	249.00	1165
57.00	2004	116.00	76	174.00	33944	250.00	575
58.00	175	117.00	401	175.00	2300	251.00	404
59.00	83	118.00	453	176.00	33104	252.00	216
60.00	467	119.00	401	177.00	1724	258.00	130
61.00	2438	120.00	96	178.00	99	262.00	69
62.00	3067	121.00	78	179.00	192	265.00	1904
63.00	1382	122.00	76	180.00	182	266.00	186
68.00	4485	123.00	96	181.00	226	267.00	617
69.00	4849	125.00	817	182.00	69	268.00	320
70.00	535	126.00	129	186.00	74	270.00	173
72.00	305	128.00	233	187.00	100	273.00	97
73.00	4431	129.00	265	189.00	398	275.00	146
74.00	10060	130.00	300	191.00	897	279.00	94
75.00	28272	131.00	240	192.00	541	281.00	19560
76.00	2315	132.00	271	193.00	2824	282.00	6279
77.00	491	133.00	1866	194.00	304	283.00	3883

Report Date: 24-Oct-2019 08:46:54

Chrom Revision: 2.3 09-Oct-2019 11:13:36

Data File:

\\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\6102301.D\MMSVOA_LL_CHHP6.rsl\spectra

Injection Date:

23-Oct-2019 09:16:30

Spectrum:

Tune Spec :Average 800-802(8.45-8.47) Bgrd 794(8.42)

Base Peak:

95.00

Minimum % Base Peak: 0

Number of Points:

169

m/z	Y	m/z	Y	m/z	Y	m/z	Y
78.00	209	134.00	513	195.00	134	284.00	518
79.00	1142	137.00	288	196.00	95	285.00	107
80.00	550	138.00	146	200.00	153	286.00	124
81.00	898	139.00	116	201.00	117	291.00	123
82.00	237	140.00	98	202.00	210	292.00	88
83.00	90	141.00	476	203.00	197	294.00	80
84.00	5	142.00	100	207.00	1361	298.00	72
85.00	310	143.00	502	208.00	417		
86.00	185	144.00	68	209.00	249		
87.00	1403	147.00	172	210.00	78		

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\6102301.D

Injection Date: 23-Oct-2019 09:16:30

Instrument ID: CHHP6

Operator ID: 433269

Lims ID: BFB

Worklist Smp#: 1

Client ID:

Injection Vol: 5.0 mL

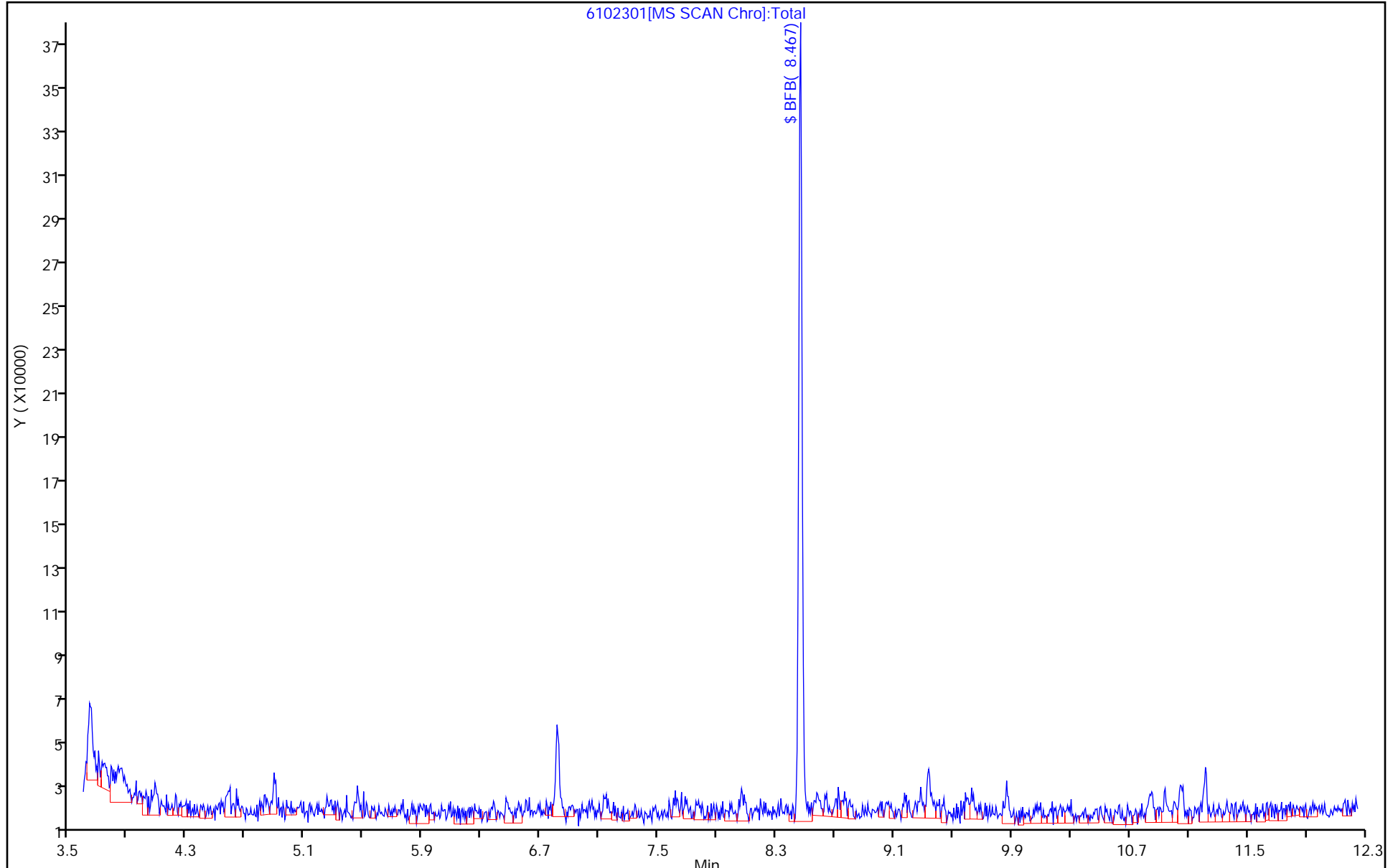
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C_D ICAL

Column: DB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 180-295448/6
 Matrix: Water Lab File ID: 6101906A.D
 Analysis Method: EPA 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 10/19/2019 15:44
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 295448 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	ND		1.0	0.90
75-01-4	Vinyl chloride	ND		1.0	0.88
74-83-9	Bromomethane	ND		1.0	0.89
75-00-3	Chloroethane	ND		1.0	0.90
75-35-4	1,1-Dichloroethene	ND		1.0	0.55
67-64-1	Acetone	ND		5.0	3.4
75-15-0	Carbon disulfide	ND		1.0	0.88
75-09-2	Methylene Chloride	ND		1.0	0.89
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.67
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.59
75-34-3	1,1-Dichloroethane	ND		1.0	0.63
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.71
74-97-5	Bromochloromethane	ND		1.0	0.63
78-93-3	2-Butanone (MEK)	ND		5.0	2.6
67-66-3	Chloroform	ND		1.0	0.60
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.60
56-23-5	Carbon tetrachloride	ND		1.0	0.88
71-43-2	Benzene	ND		1.0	0.60
107-06-2	1,2-Dichloroethane	ND		1.0	0.57
79-01-6	Trichloroethene	ND		1.0	0.69
78-87-5	1,2-Dichloropropane	ND		1.0	0.66
75-27-4	Bromodichloromethane	ND		1.0	0.64
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.59
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	3.1
108-88-3	Toluene	ND		1.0	0.46
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.58
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.45
127-18-4	Tetrachloroethene	ND		1.0	0.47
591-78-6	2-Hexanone	ND		5.0	3.3
124-48-1	Dibromochloromethane	ND		1.0	0.84
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.50
108-90-7	Chlorobenzene	ND		1.0	0.50
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.57
100-41-4	Ethylbenzene	ND		1.0	0.51
1330-20-7	Xylenes, Total	ND		2.0	0.89
100-42-5	Styrene	ND		1.0	0.47

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 180-295448/6
 Matrix: Water Lab File ID: 6101906A.D
 Analysis Method: EPA 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 10/19/2019 15:44
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 295448 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	ND		1.0	0.98
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.60
107-13-1	Acrylonitrile	ND		20	7.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	112		70-150
2037-26-5	Toluene-d8 (Surr)	111		78-128
460-00-4	4-Bromofluorobenzene (Surr)	104		64-123
1868-53-7	Dibromofluoromethane (Surr)	98		75-147

Eurofins TestAmerica, Pittsburgh
Target Compound Quantitation Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101906A.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 19-Oct-2019 15:44:30 ALS Bottle#: 7 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-0029191-006
 Misc. Info.: mb
 Operator ID: 433269 Instrument ID: CHHP6
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C_D ICAL
 Last Update: 22-Oct-2019 09:25:16 Calib Date: 18-Oct-2019 18:47:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101817.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX0302

First Level Reviewer: bowieh Date: 22-Oct-2019 09:25:16

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.431	4.429	0.002	91	158066	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.406	7.410	-0.004	98	466420	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.508	10.513	-0.005	89	114321	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.851	12.855	-0.005	97	155704	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.688	6.686	0.002	92	107607	50.0	49.1	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	7.059	7.057	0.002	92	187755	50.0	56.1	
\$ 7 Toluene-d8 (Surr)	98	9.054	9.053	0.001	95	460117	50.0	55.3	
\$ 8 4-Bromofluorobenzene (Surr	95	11.695	11.693	0.002	0	178515	50.0	52.0	
11 Dichlorodifluoromethane	85		1.661					ND	
12 Chloromethane	50		1.886					ND	U
13 Vinyl chloride	62		2.008					ND	
14 Butadiene	39		2.020					ND	U
15 Bromomethane	94		2.355					ND	U
16 Chloroethane	64		2.495					ND	U
17 Dichlorofluoromethane	67		2.775					ND	U
18 Trichlorofluoromethane	101		2.793					ND	
19 Ethanol	45	2.880	2.853	0.027	0	90			NC
20 Ethyl ether	59		3.164					ND	
21 Acrolein	56		3.372					ND	
22 1,1-Dichloroethene	96		3.468					ND	
23 1,1,2-Trichloro-1,2,2-trif	101		3.541					ND	
24 Acetone	43	3.579	3.584	-0.005	63	2050			1.56
25 Iodomethane	142		3.675					ND	U
26 Carbon disulfide	76		3.766					ND	U
27 Isopropyl alcohol	45		3.876					ND	U
28 Acetonitrile	41		4.034					ND	U
29 3-Chloro-1-propene	76		4.082					ND	U
30 Methyl acetate	43		4.101					ND	U
31 Methylene Chloride	84	4.291	4.289	0.002	58	8939			0.5527
32 2-Methyl-2-propanol	59		4.557					ND	U
33 Acrylonitrile	53		4.679					ND	U

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
34 trans-1,2-Dichloroethene	96		4.709					ND	U
35 Methyl tert-butyl ether	73		4.715					ND	U
36 Hexane	57		5.117					ND	U
37 1,1-Dichloroethane	63		5.336					ND	
38 Vinyl acetate	43		5.384					ND	U
40 Isopropyl ether	45		5.427					ND	U
41 Tert-butyl ethyl ether	59		5.427					ND	U
39 2-Chloro-1,3-butadiene	53		5.427					ND	U
43 cis-1,2-Dichloroethene	96		6.078					ND	U
42 2,2-Dichloropropane	97		6.078					ND	U
44 2-Butanone (MEK)	43		6.090					ND	
46 Ethyl acetate	43		6.164					ND	U
45 Propionitrile	54		6.176					ND	U
47 Methacrylonitrile	41		6.346					ND	U
48 Chlorobromomethane	128		6.358					ND	
49 Tetrahydrofuran	42		6.370					ND	U
50 Chloroform	83	6.512	6.510	0.002	58	8355		1.72	
51 1,1,1-Trichloroethane	97		6.662					ND	U
52 Cyclohexane	56		6.723					ND	U
53 Carbon tetrachloride	117		6.826					ND	
54 1,1-Dichloropropene	75		6.850					ND	U
55 Isobutyl alcohol	41		7.063					ND	U
56 Benzene	78		7.063					ND	
57 1,2-Dichloroethane	62		7.142					ND	U
148 Isooctane	57		7.210					ND	
58 Tert-amyl methyl ether	73		7.234					ND	U
59 n-Heptane	43		7.416					ND	U
60 n-Butanol	56		7.764					ND	U
61 Trichloroethene	130		7.793					ND	U
62 Ethyl acrylate	55		7.910					ND	U
63 Methylcyclohexane	83		8.018					ND	
64 1,2-Dichloropropane	63		8.061					ND	U
65 1,4-Dioxane	88		8.146					ND	U
66 Methyl methacrylate	69		8.147					ND	U
67 Dibromomethane	93		8.152					ND	U
68 Dichlorobromomethane	83		8.347					ND	
70 2-Chloroethyl vinyl ether	63		8.645					ND	U
71 cis-1,3-Dichloropropene	75		8.797					ND	U
72 4-Methyl-2-pentanone (MIBK)	43		8.955					ND	U
73 Toluene	91		9.126					ND	
74 trans-1,3-Dichloropropene	75		9.369					ND	U
75 Ethyl methacrylate	69		9.430					ND	U
76 1,1,2-Trichloroethane	97		9.570					ND	U
77 Tetrachloroethene	164		9.631					ND	U
78 1,3-Dichloropropane	76		9.722					ND	U
79 2-Hexanone	43		9.789					ND	U
80 n-Butyl acetate	43		9.893					ND	U
81 Chlorodibromomethane	129		9.935					ND	U
82 Ethylene Dibromide	107		10.044					ND	U
83 3-Chlorobenzotrifluoride	180		10.180					ND	
85 4-Chlorobenzotrifluoride	180	10.314	10.289	0.025	1	169		NC	
84 Chlorobenzene	112		10.537					ND	U

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
87 Ethylbenzene	106		10.634					ND	U
86 1,1,1,2-Tetrachloroethane	131		10.634					ND	U
88 m-Xylene & p-Xylene	106		10.762					ND	U
92 2-Chlorobenzotrifluoride	180	10.904	11.087	-0.183	1	266		NC	
89 o-Xylene	106		11.145					ND	U
90 Styrene	104	11.171	11.170	0.001	1	1147		0.1536	
91 Bromoform	173		11.352					ND	
93 Isopropylbenzene	105		11.516					ND	
94 Cyclohexanone	55		11.602					ND	U
95 Bromobenzene	156		11.833					ND	U
96 1,1,2,2-Tetrachloroethane	83		11.833					ND	U
97 trans-1,4-Dichloro-2-buten	53		11.875					ND	U
98 1,2,3-Trichloropropane	110		11.894					ND	
99 N-Propylbenzene	120		11.936					ND	U
101 3-Chlorotoluene	126	12.035	11.943	0.092	1	310		NC	
100 2-Chlorotoluene	126		12.021					ND	U
102 1,3,5-Trimethylbenzene	105		12.113					ND	U
103 4-Chlorotoluene	126		12.149					ND	U
107 1,2-dichloro-4-(trifluorom	214		12.194					ND	
104 tert-Butylbenzene	119	12.431	12.429	0.002	1	1192		0.1382	
106 1,2,4-Trimethylbenzene	105		12.490					ND	U
113 2,4-Dichloro-1-(triflourom	214		12.559					ND	
114 2,5-Dichlorobenzotrifluori	214	12.437	12.602	-0.165	1	186		NC	
108 sec-Butylbenzene	105		12.654					ND	
109 1,3-Dichlorobenzene	146		12.770					ND	U
110 4-Isopropyltoluene	119		12.812					ND	U
111 1,4-Dichlorobenzene	146		12.879					ND	U
112 1,2,3-Trimethylbenzene	105		12.892					ND	U
115 Benzyl chloride	91		12.983					ND	
116 n-Butylbenzene	91	13.216	13.220	-0.004	28	2207		0.2496	
117 1,2-Dichlorobenzene	146		13.238					ND	U
119 2,4- & 2,5- & 2,6- Dichlor	125	13.952	13.812	0.140	1	159		NC	
118 1,2-Dibromo-3-Chloropropan	75		14.029					ND	U
120 1,3,5-Trichlorobenzene	180		14.200					ND	U
121 2,3- & 3,4- Dichlorotoluen	125		14.226					ND	
122 1,2,4-Trichlorobenzene	180	14.852	14.856	-0.004	1	2595		1.27	
123 Hexachlorobutadiene	225		14.990					ND	U
124 Naphthalene	128	15.114	15.118	-0.004	36	7587		1.73	M
125 1,2,3-Trichlorobenzene	180	15.357	15.349	0.008	26	4448		2.78	
126 2,4,5-Trichlorotoluene	159	15.685	15.765	-0.080	1	487		NC	
127 2,3,6-Trichlorotoluene	159	16.020	15.874	0.146	1	94		NC	
S 130 1,2-Dichloroethene, Total	96		1.000					ND	
S 131 Xylenes, Total	106		1.000					ND	
S 154 Total BTEX	1		0.000					ND	
S 132 1,3-Dichloropropene, Total	1		0.000					ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

voaWI/SHP5_00014

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101906A.D

Injection Date: 19-Oct-2019 15:44:30

Instrument ID: CHHP6

Operator ID: 433269

Lims ID: MB

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

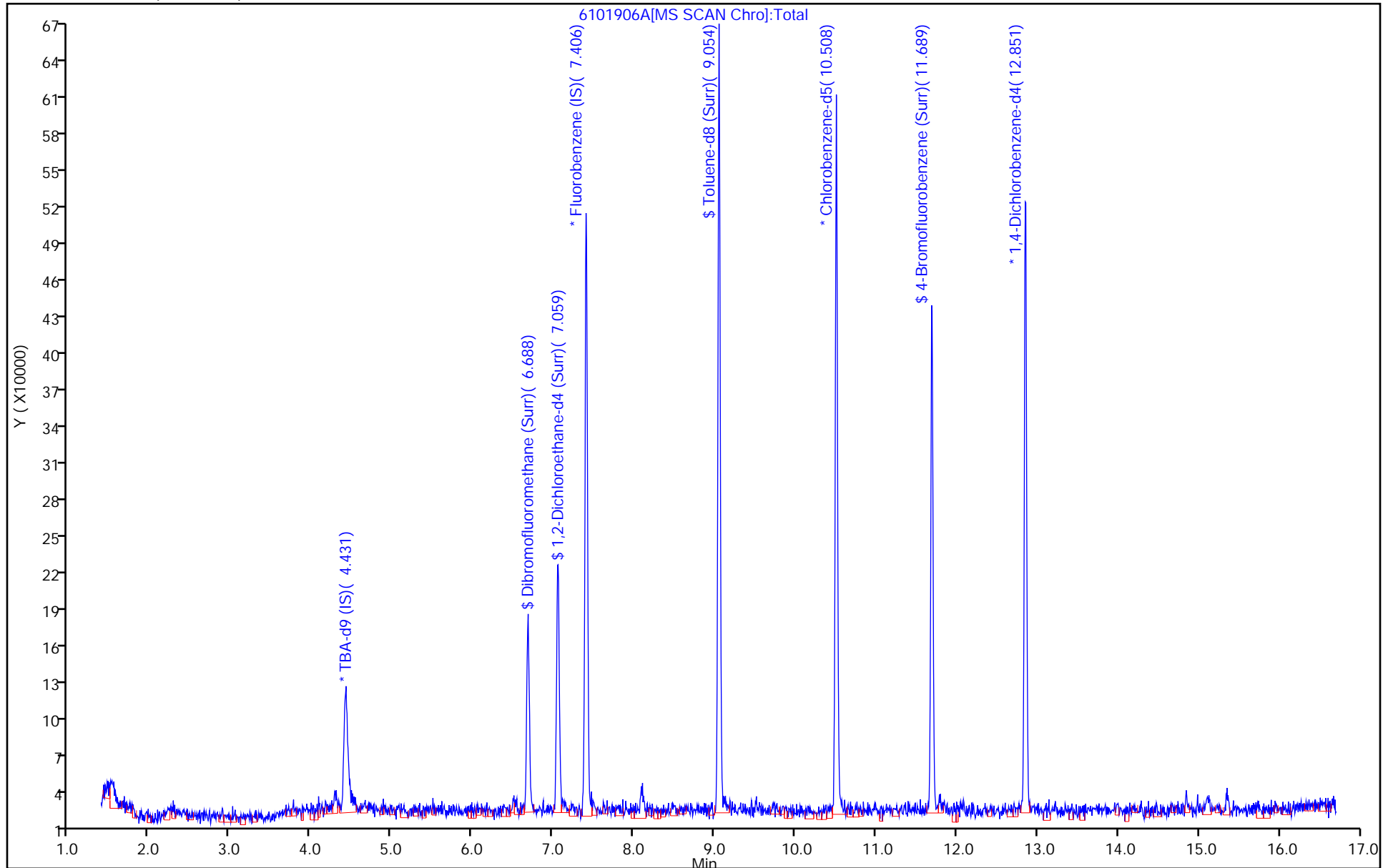
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C_D ICAL

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Pittsburgh
Recovery Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101906A.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 19-Oct-2019 15:44:30 ALS Bottle#: 7 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-0029191-006
 Misc. Info.: mb
 Operator ID: 433269 Instrument ID: CHHP6
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C_D ICAL
 Last Update: 22-Oct-2019 09:25:16 Calib Date: 18-Oct-2019 18:47:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101817.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX0302

First Level Reviewer: bowieh Date: 22-Oct-2019 09:25:16

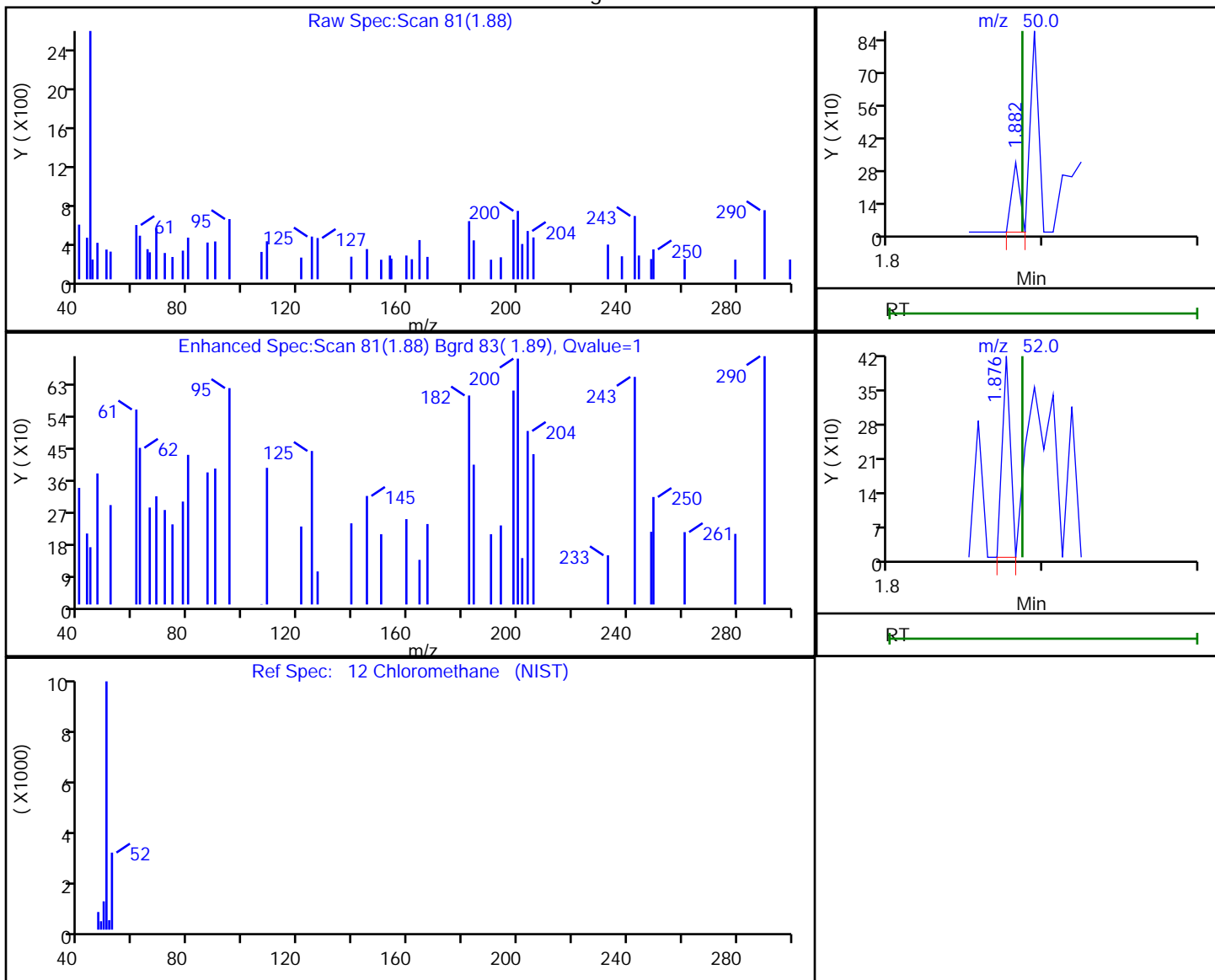
Compound	Amount Added	Amount Recovered	% Rec.
\$ 5 Dibromofluoromethane (Surr)	50.0	49.1	98.21
\$ 6 1,2-Dichloroethane-d4 (Surr)	50.0	56.1	112.12
\$ 7 Toluene-d8 (Surr)	50.0	55.3	110.67
\$ 8 4-Bromofluorobenzene (Surr)	50.0	52.0	103.99

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101906A.D
 Injection Date: 19-Oct-2019 15:44:30 Instrument ID: CHHP6
 Lims ID: MB
 Client ID:
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

12 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
1.88	50.00	111	0.028157
1.88	52.00	151	

Reviewer: bowieh, 22-Oct-2019 09:17:27

Audit Action: Marked Compound Undetected

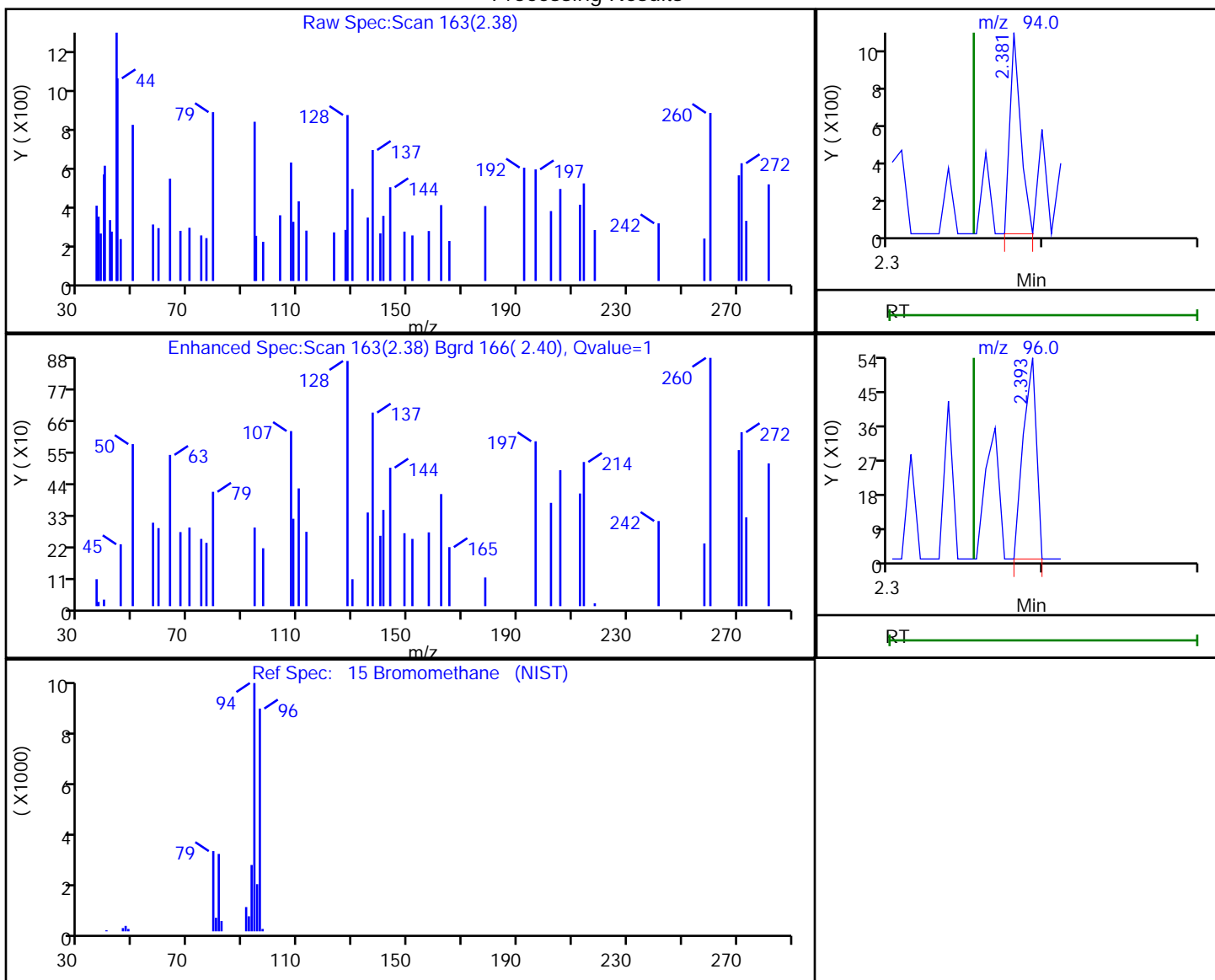
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101906A.D
 Injection Date: 19-Oct-2019 15:44:30 Instrument ID: CHHP6
 Lims ID: MB
 Client ID:
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

15 Bromomethane, CAS: 74-83-9

Processing Results



RT	Mass	Response	Amount
2.38	94.00	516	0.365433
2.39	96.00	316	

Reviewer: bowieh, 22-Oct-2019 09:17:29

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101906A.D

Injection Date: 19-Oct-2019 15:44:30

Instrument ID: CHHP6

Lims ID: MB

Client ID:

Operator ID: 433269

ALS Bottle#: 7

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: MSVOA_LL_CHHP6

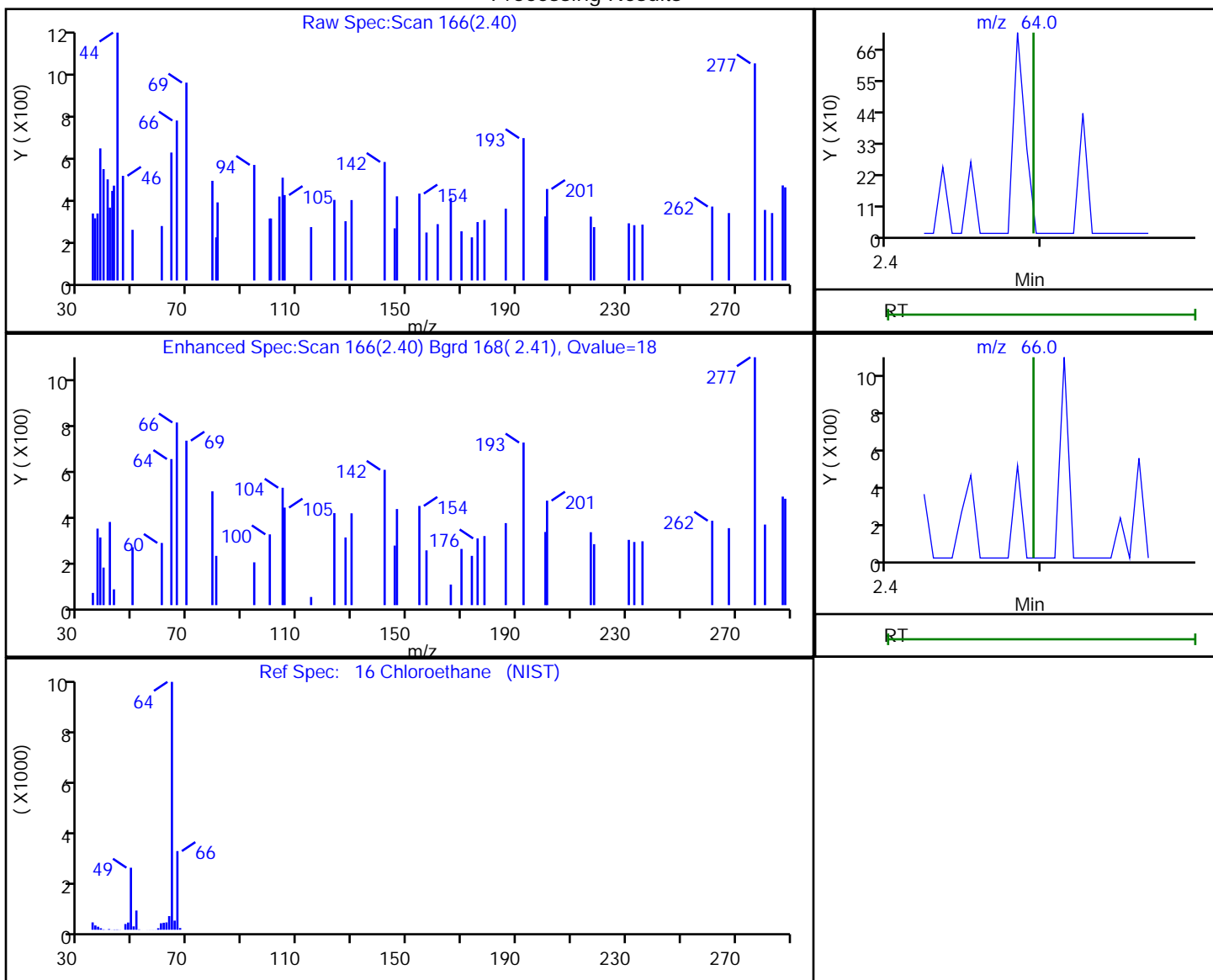
Limit Group: VOA 8260C_D ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

16 Chloroethane, CAS: 75-00-3

Processing Results



RT	Mass	Response	Amount
2.40	64.00	492	-2.481433
2.40	66.00	462	

Reviewer: bowieh, 22-Oct-2019 09:17:31

Audit Action: Marked Compound Undetected

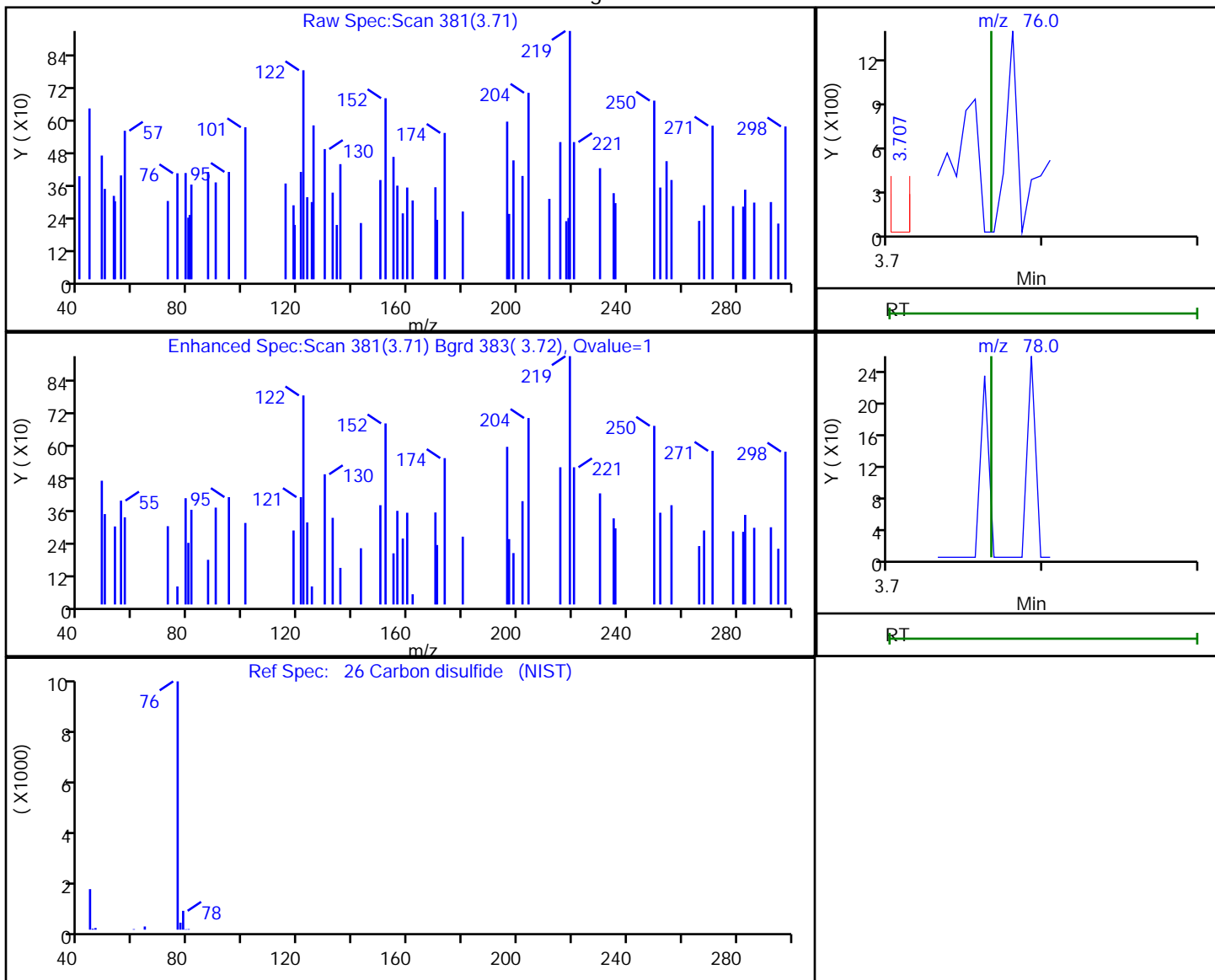
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101906A.D
 Injection Date: 19-Oct-2019 15:44:30 Instrument ID: CHHP6
 Lims ID: MB
 Client ID:
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

26 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
3.71	76.00	144	0.023766
3.70	78.00	105	

Reviewer: bowieh, 22-Oct-2019 09:17:38

Audit Action: Marked Compound Undetected

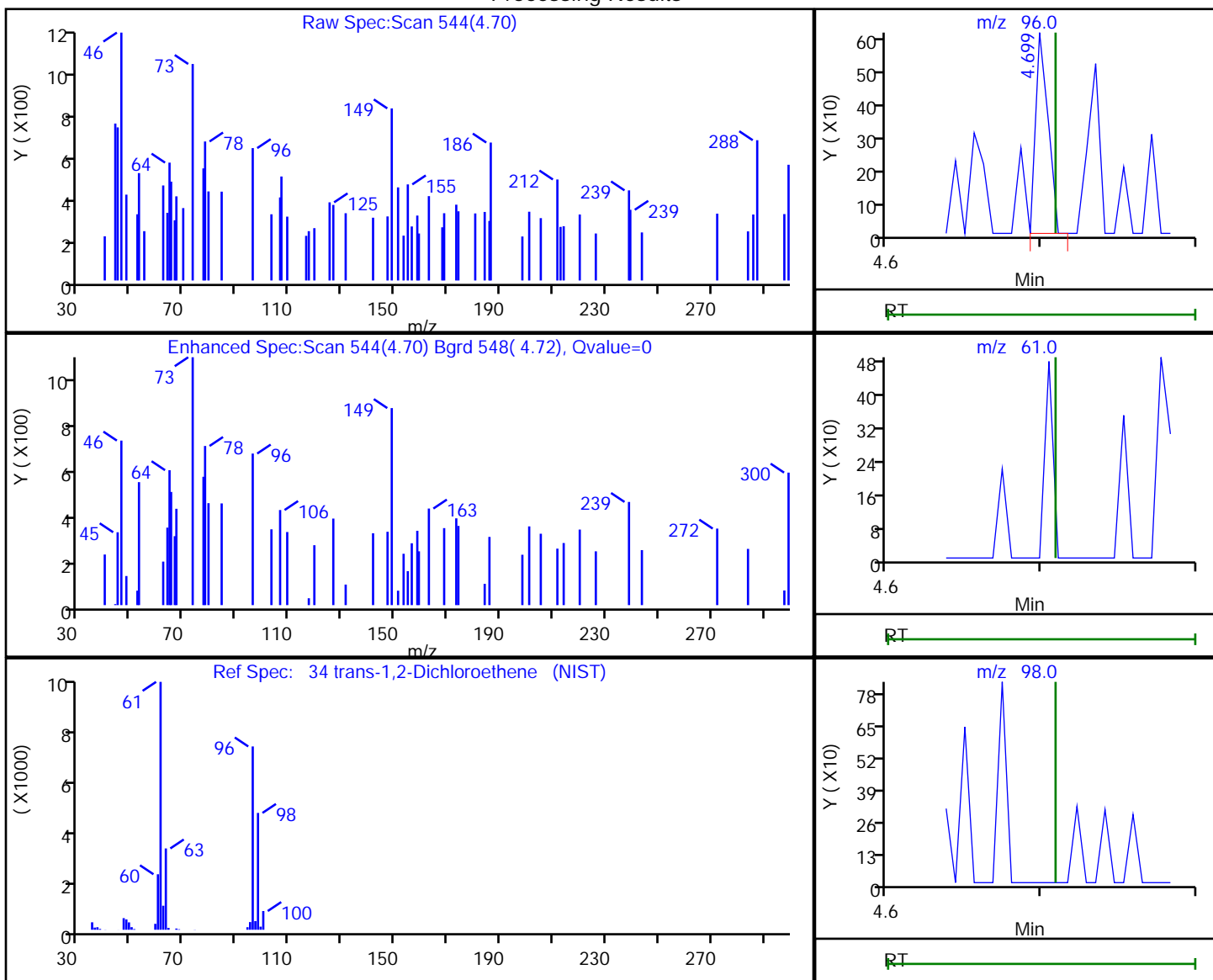
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101906A.D
 Injection Date: 19-Oct-2019 15:44:30 Instrument ID: CHHP6
 Lims ID: MB
 Client ID:
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

34 trans-1,2-Dichloroethene, CAS: 156-60-5

Processing Results



RT	Mass	Response	Amount
4.70	96.00	347	0.129056
4.71	61.00	0	
4.71	98.00	0	

Reviewer: bowieh, 22-Oct-2019 09:17:47

Audit Action: Marked Compound Undetected

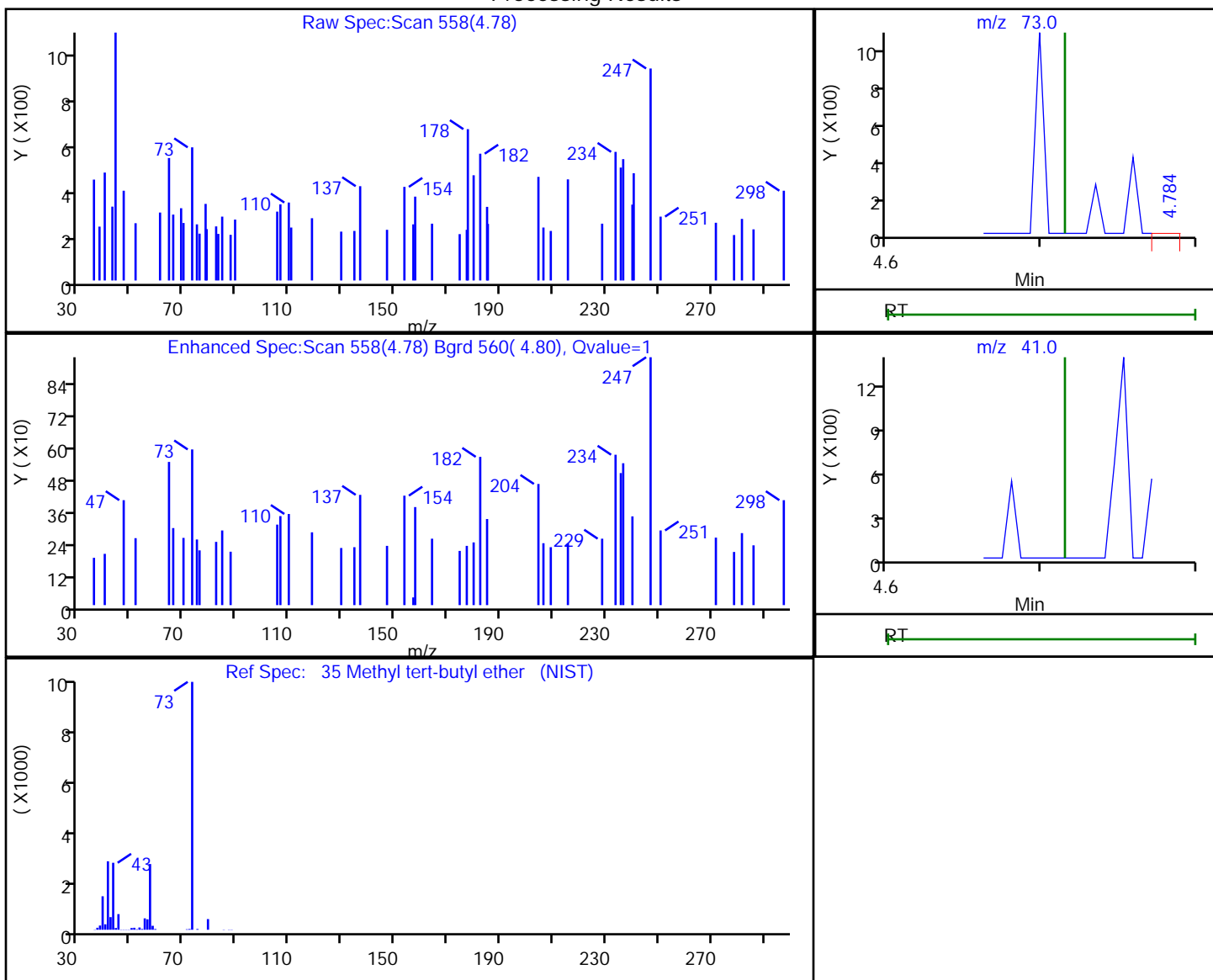
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101906A.D
 Injection Date: 19-Oct-2019 15:44:30 Instrument ID: CHHP6
 Lims ID: MB
 Client ID:
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

35 Methyl tert-butyl ether, CAS: 1634-04-4

Processing Results



RT	Mass	Response	Amount
4.78	73.00	320	0.055054
4.79	41.00	396	

Reviewer: bowieh, 22-Oct-2019 09:17:49

Audit Action: Marked Compound Undetected

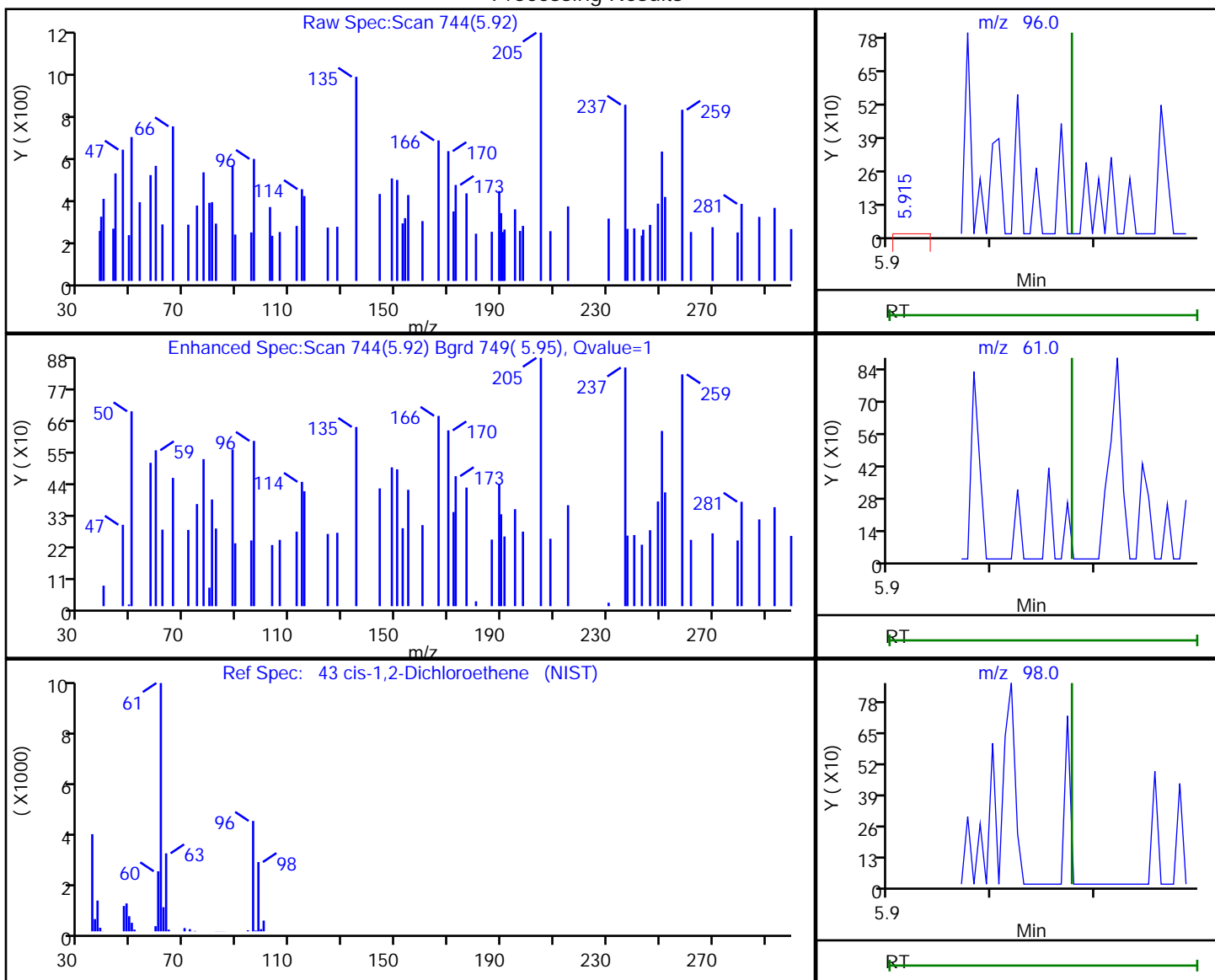
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101906A.D
 Injection Date: 19-Oct-2019 15:44:30 Instrument ID: CHHP6
 Lims ID: MB
 Client ID:
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

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

Processing Results



RT	Mass	Response	Amount
5.92	96.00	554	0.198128
5.92	61.00	98	
6.08	98.00	0	

Reviewer: bowieh, 22-Oct-2019 09:18:04

Audit Action: Marked Compound Undetected

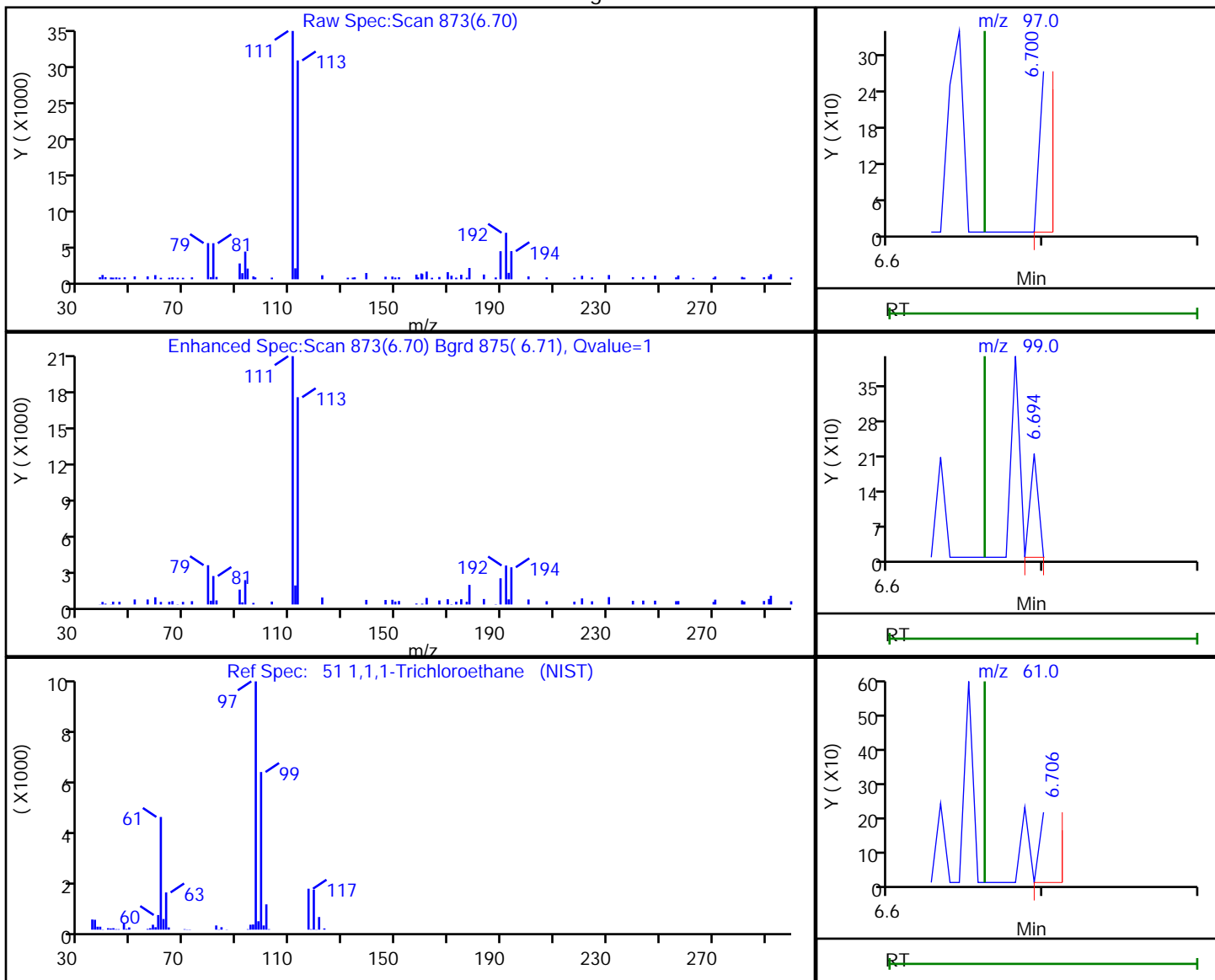
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101906A.D
 Injection Date: 19-Oct-2019 15:44:30 Instrument ID: CHHP6
 Lims ID: MB
 Client ID:
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

51 1,1,1-Trichloroethane, CAS: 71-55-6

Processing Results



RT	Mass	Response	Amount
6.70	97.00	97	0.023596
6.69	99.00	77	
6.71	61.00	168	

Reviewer: bowieh, 22-Oct-2019 09:18:14

Audit Action: Marked Compound Undetected

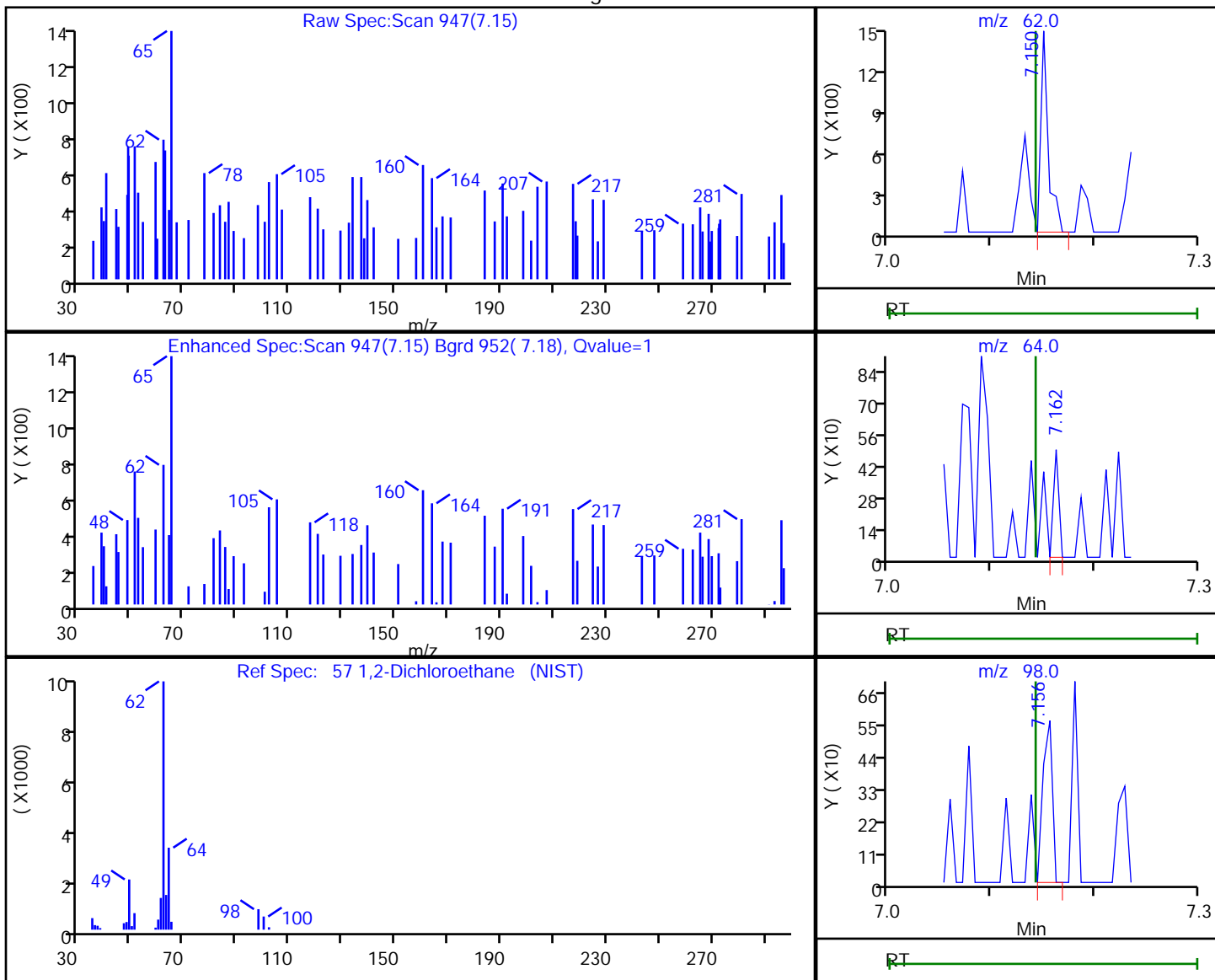
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101906A.D
 Injection Date: 19-Oct-2019 15:44:30 Instrument ID: CHHP6
 Lims ID: MB
 Client ID:
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

57 1,2-Dichloroethane, CAS: 107-06-2

Processing Results



RT	Mass	Response	Amount
7.15	62.00	749	0.170462
7.16	64.00	177	
7.16	98.00	356	

Reviewer: bowieh, 22-Oct-2019 09:18:20

Audit Action: Marked Compound Undetected

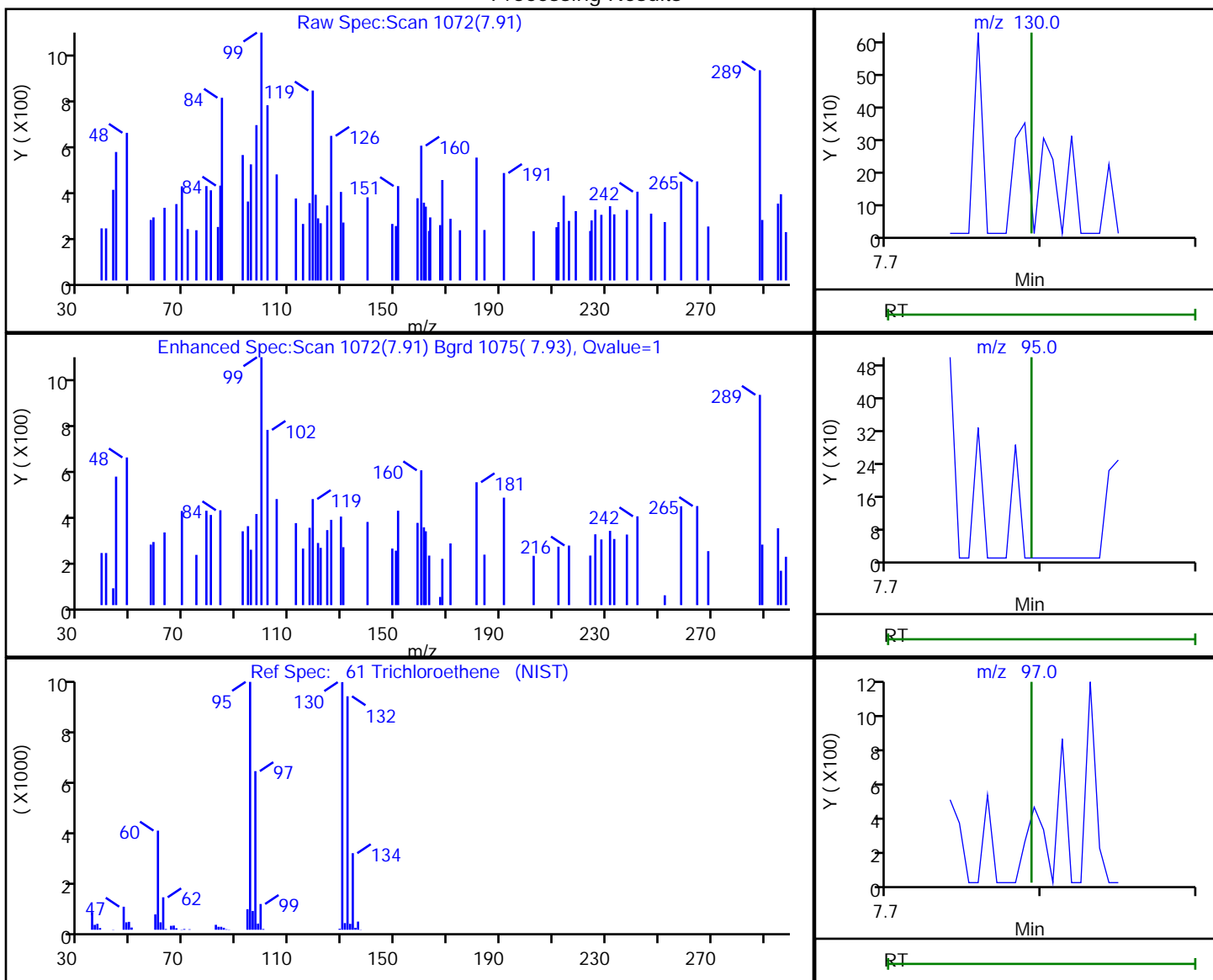
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Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101906A.D
 Injection Date: 19-Oct-2019 15:44:30 Instrument ID: CHHP6
 Lims ID: MB
 Client ID:
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

61 Trichloroethene, CAS: 79-01-6

Processing Results



RT	Mass	Response	Amount
7.91	130.00	168	0.056011
7.91	95.00	260	
7.92	97.00	686	

Reviewer: bowieh, 22-Oct-2019 09:18:27

Audit Action: Marked Compound Undetected

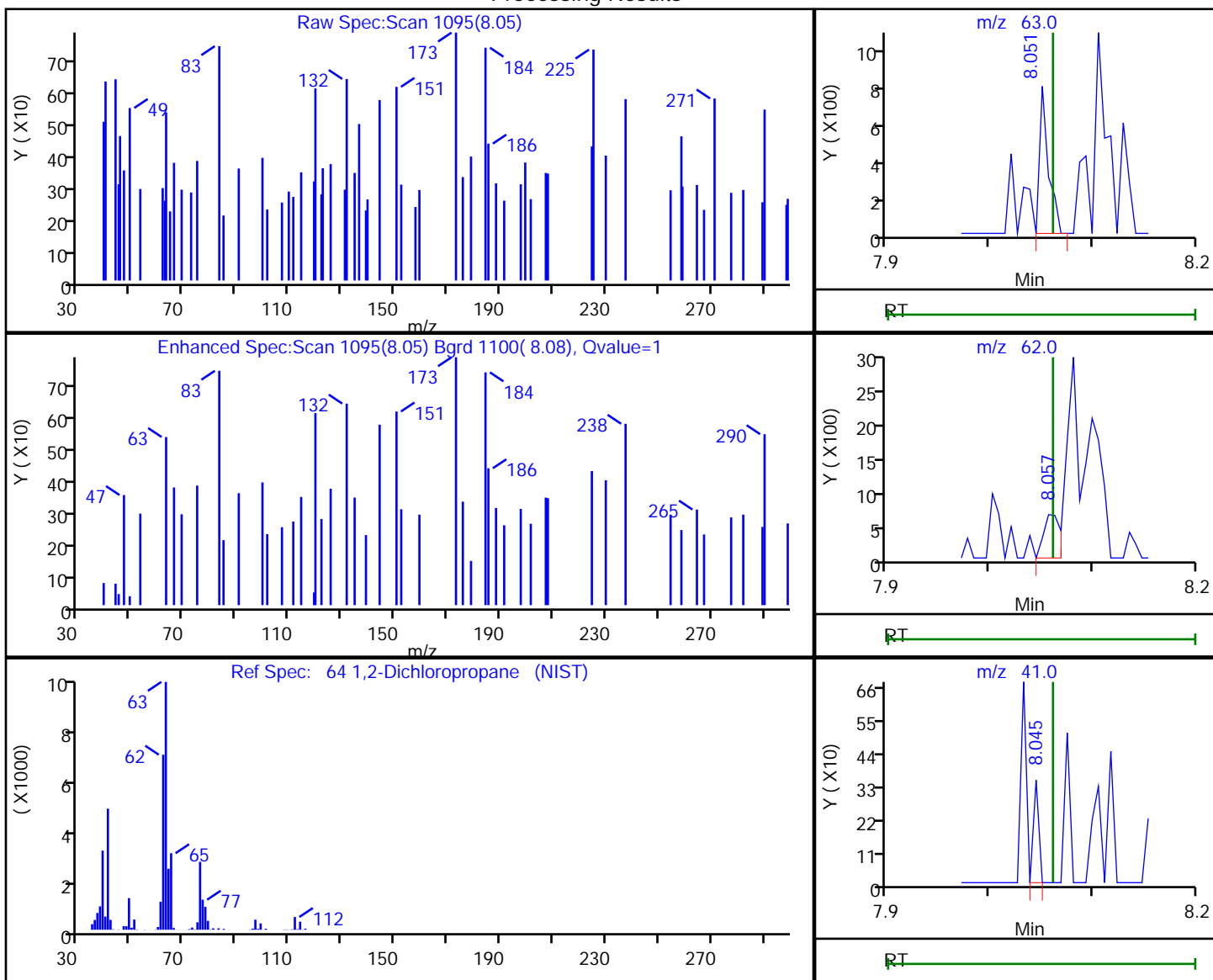
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101906A.D
 Injection Date: 19-Oct-2019 15:44:30 Instrument ID: CHHP6
 Lims ID: MB
 Client ID:
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

64 1,2-Dichloropropane, CAS: 78-87-5

Processing Results



RT	Mass	Response	Amount
8.05	63.00	469	0.202658
8.06	62.00	714	
8.04	41.00	126	

Reviewer: bowieh, 22-Oct-2019 09:18:29

Audit Action: Marked Compound Undetected

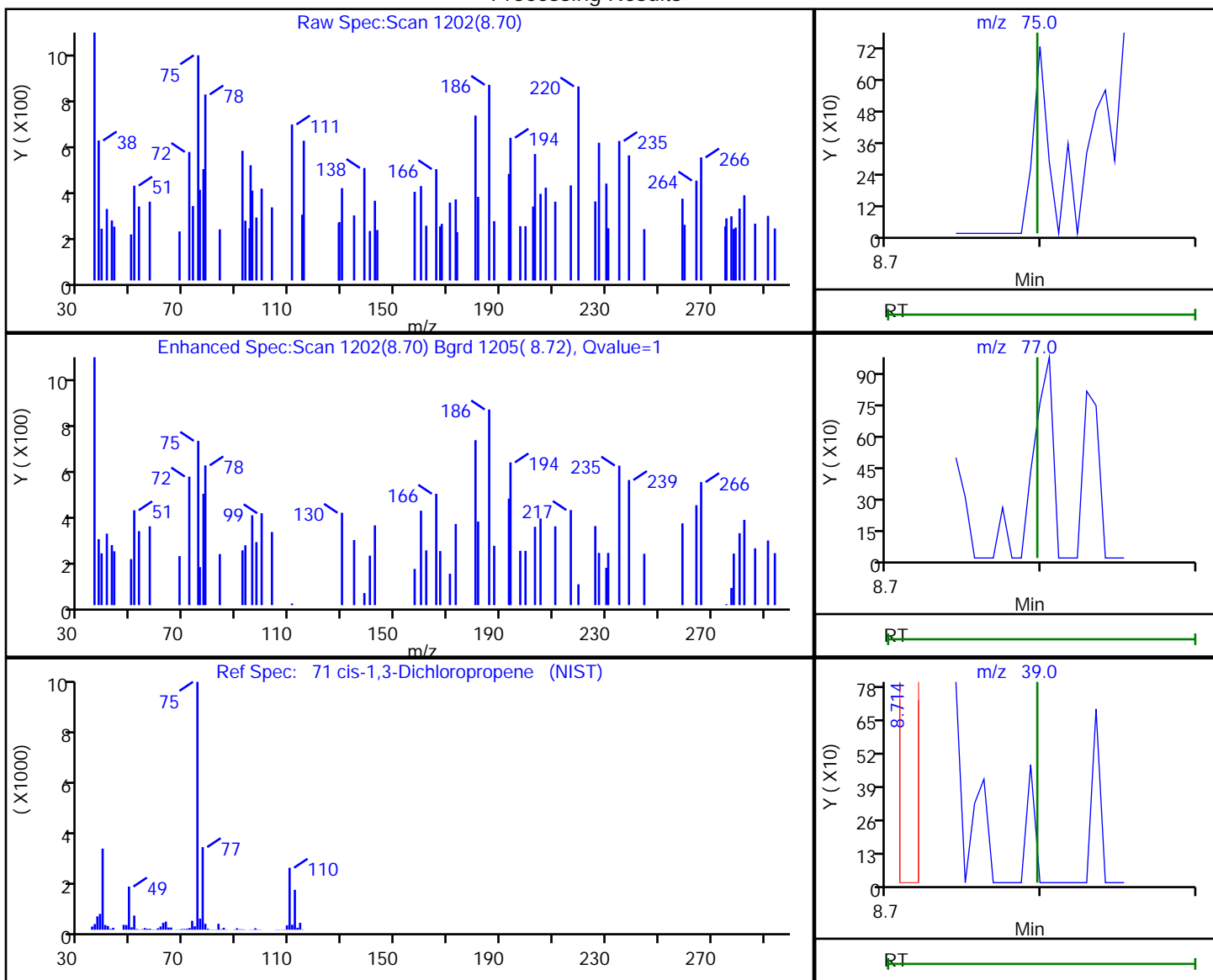
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Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101906A.D
 Injection Date: 19-Oct-2019 15:44:30 Instrument ID: CHHP6
 Lims ID: MB
 Client ID:
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

71 cis-1,3-Dichloropropene, CAS: 10061-01-5

Processing Results



RT	Mass	Response	Amount
8.70	75.00	685	0.226807
8.70	77.00	264	
8.71	39.00	118	

Reviewer: bowieh, 22-Oct-2019 09:22:46

Audit Action: Marked Compound Undetected

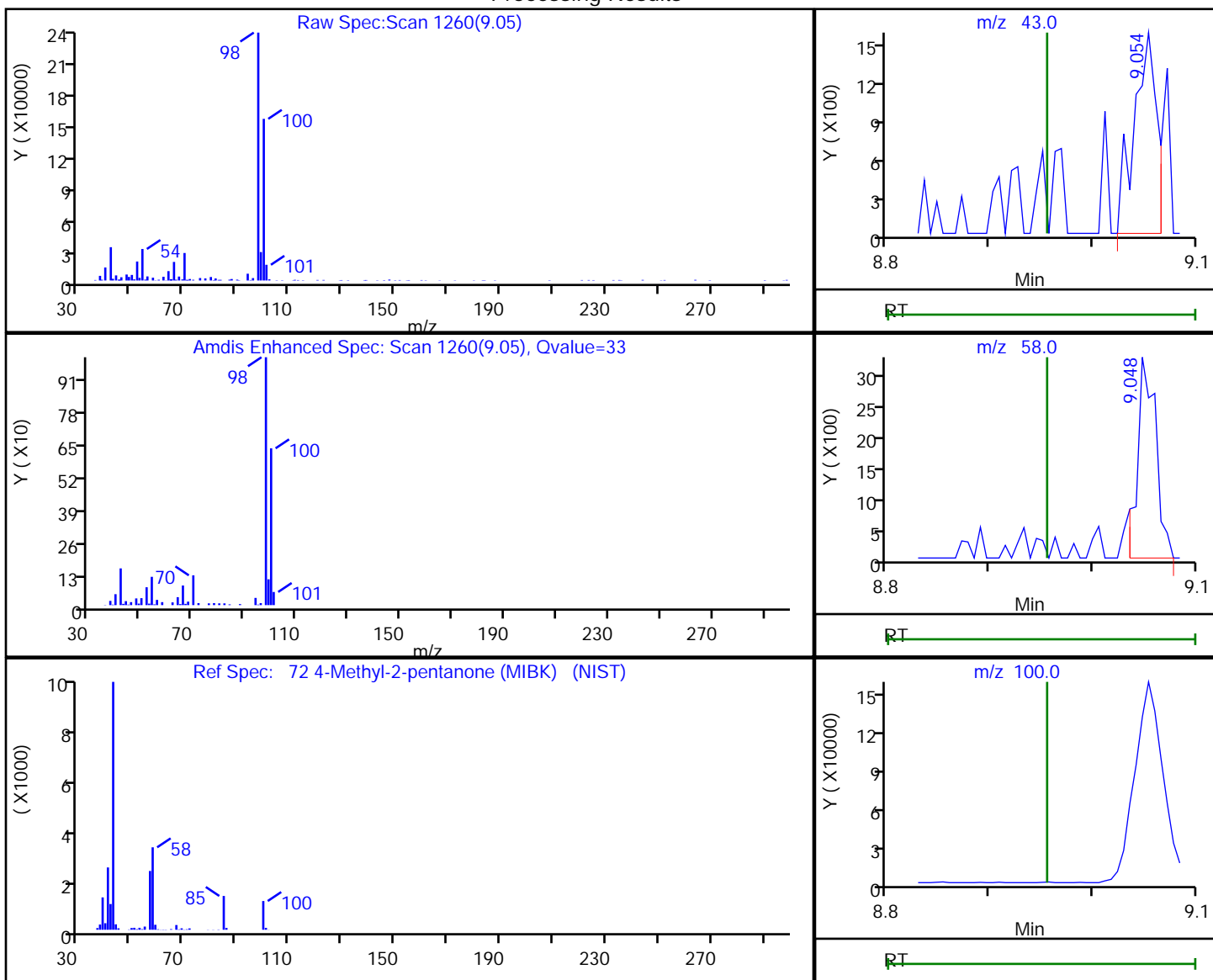
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101906A.D
 Injection Date: 19-Oct-2019 15:44:30 Instrument ID: CHHP6
 Lims ID: MB
 Client ID:
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

72 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
9.05	43.00	2443	1.260685
9.05	58.00	4082	
9.05	100.00	293198	

Reviewer: bowieh, 22-Oct-2019 09:22:47

Audit Action: Marked Compound Undetected

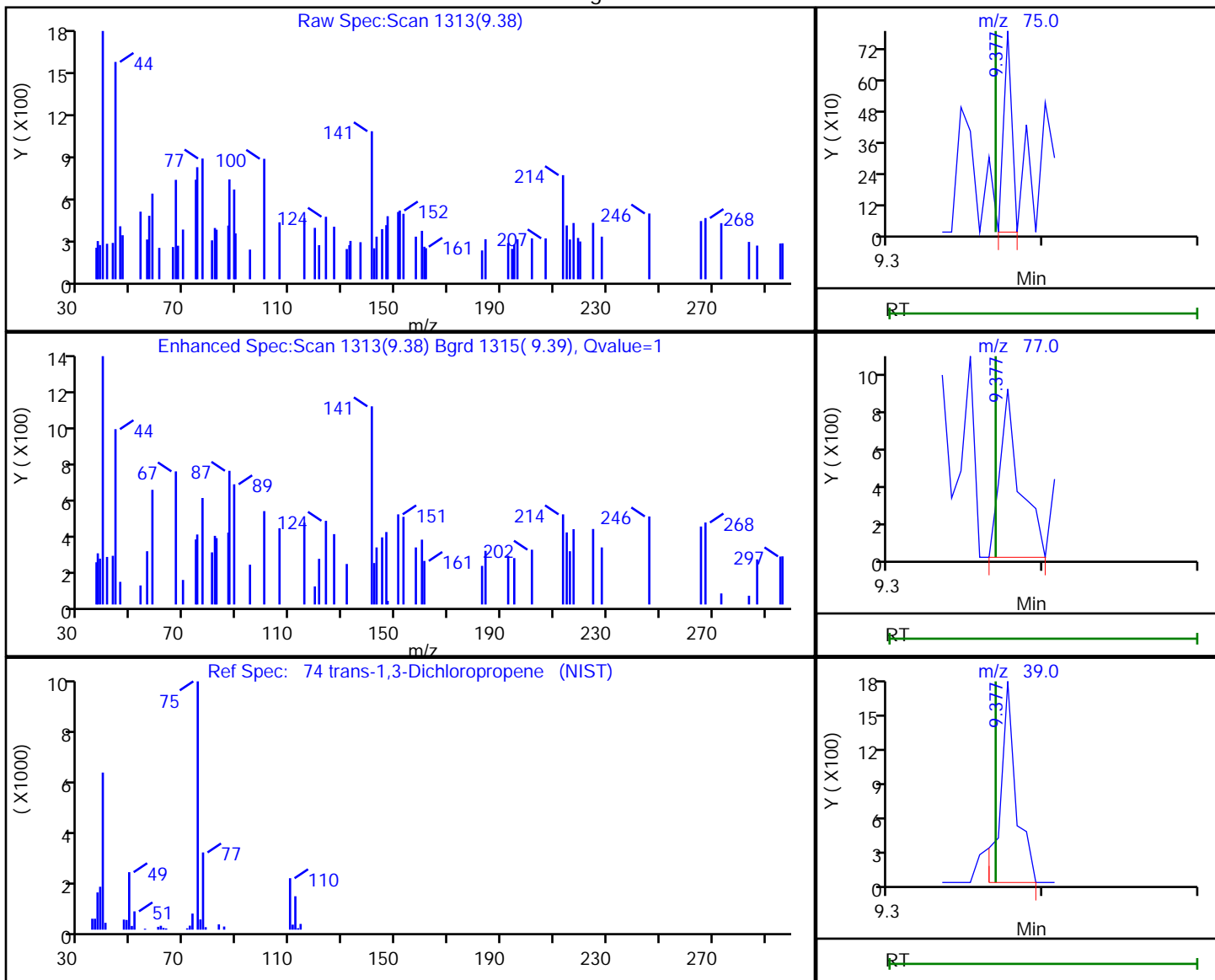
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101906A.D
 Injection Date: 19-Oct-2019 15:44:30 Instrument ID: CHHP6
 Lims ID: MB
 Client ID:
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

74 trans-1,3-Dichloropropene, CAS: 10061-02-6

Processing Results



RT	Mass	Response	Amount
9.38	75.00	288	1.856389
9.38	77.00	763	
9.38	39.00	1230	

Reviewer: bowieh, 22-Oct-2019 09:22:48

Audit Action: Marked Compound Undetected

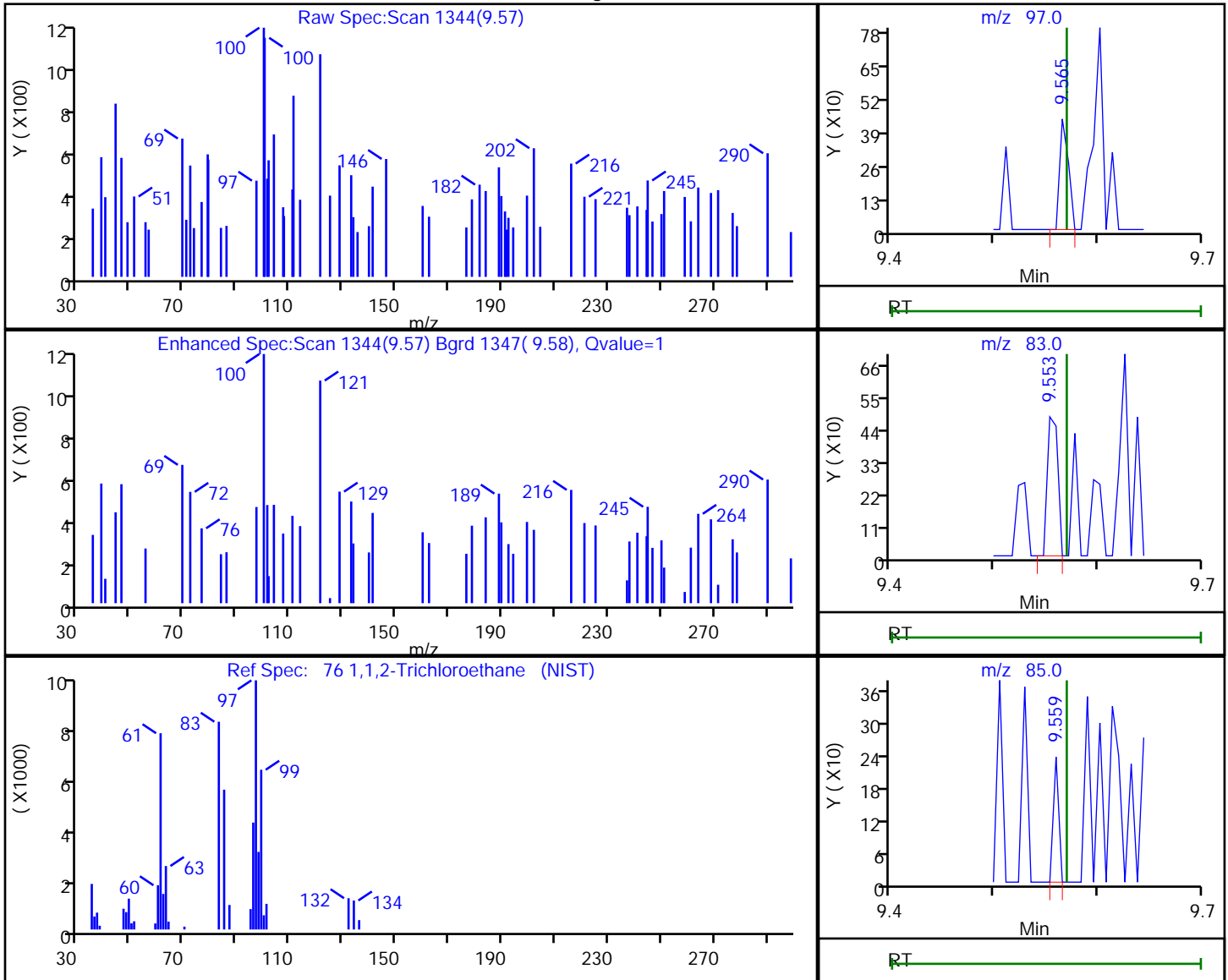
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101906A.D
 Injection Date: 19-Oct-2019 15:44:30 Instrument ID: CHHP6
 Lims ID: MB
 Client ID:
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

76 1,1,2-Trichloroethane, CAS: 79-00-5

Processing Results



RT	Mass	Response	Amount
9.57	97.00	256	0.134903
9.55	83.00	337	
9.56	85.00	85	

Reviewer: bowieh, 22-Oct-2019 09:22:50

Audit Action: Marked Compound Undetected

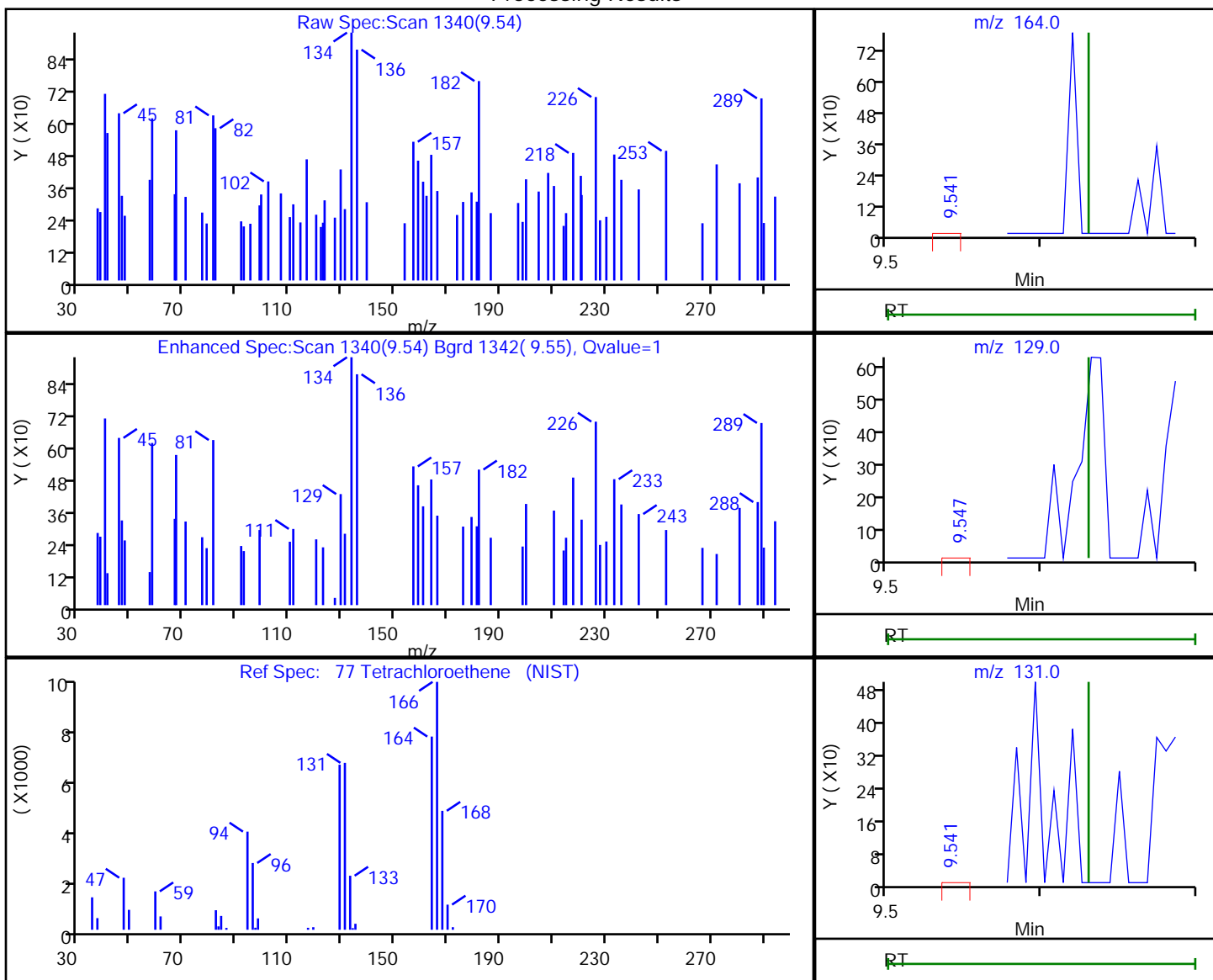
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101906A.D
 Injection Date: 19-Oct-2019 15:44:30 Instrument ID: CHHP6
 Lims ID: MB
 Client ID:
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

77 Tetrachloroethene, CAS: 127-18-4

Processing Results



RT	Mass	Response	Amount
9.54	164.00	317	0.146565
9.55	129.00	368	
9.54	131.00	192	

Reviewer: bowieh, 22-Oct-2019 09:22:51

Audit Action: Marked Compound Undetected

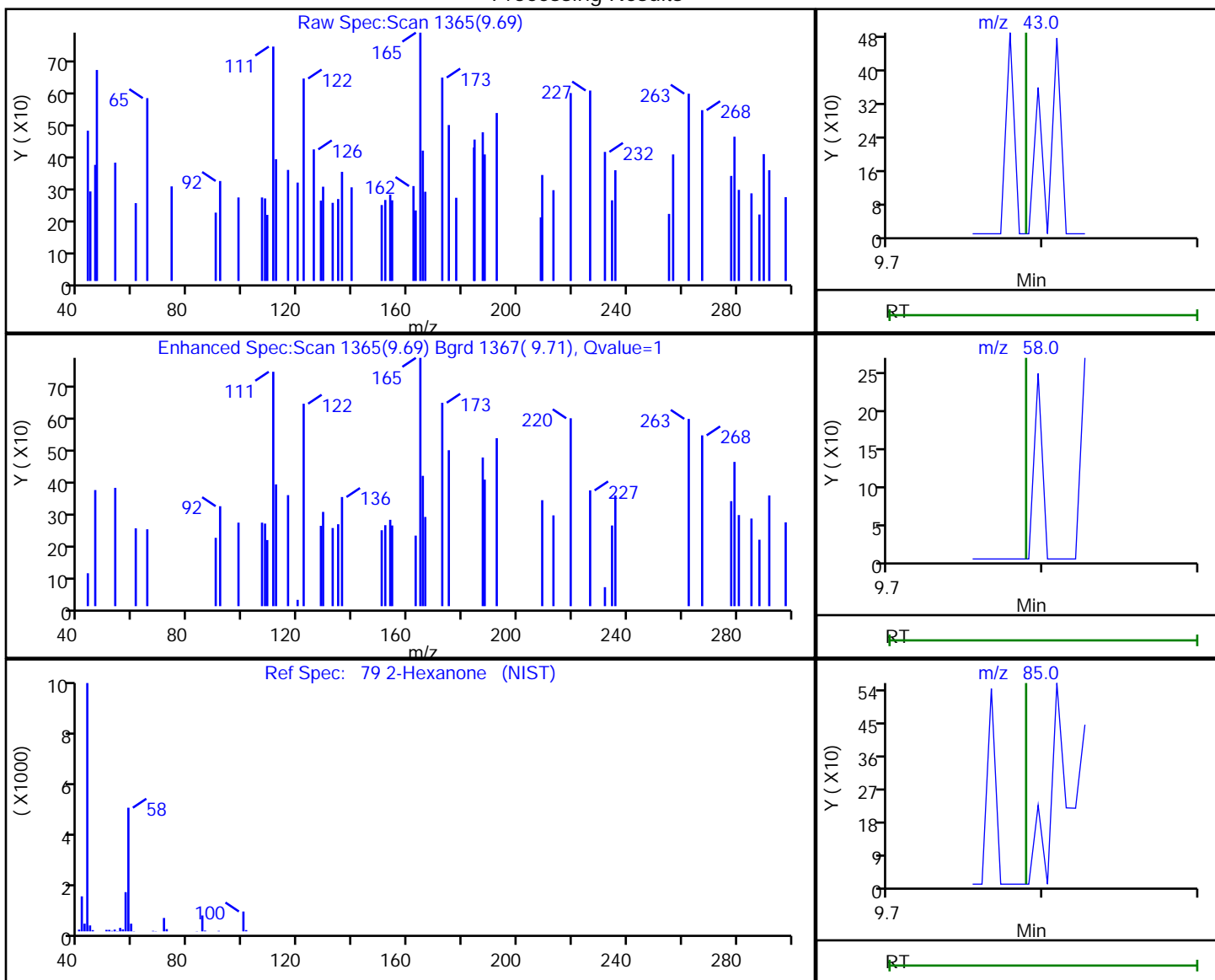
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101906A.D
 Injection Date: 19-Oct-2019 15:44:30 Instrument ID: CHHP6
 Lims ID: MB
 Client ID:
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

79 2-Hexanone, CAS: 591-78-6

Processing Results



RT	Mass	Response	Amount
9.69	43.00	173	0.108665
9.79	58.00	0	
9.79	85.00	0	

Reviewer: bowieh, 22-Oct-2019 09:22:53

Audit Action: Marked Compound Undetected

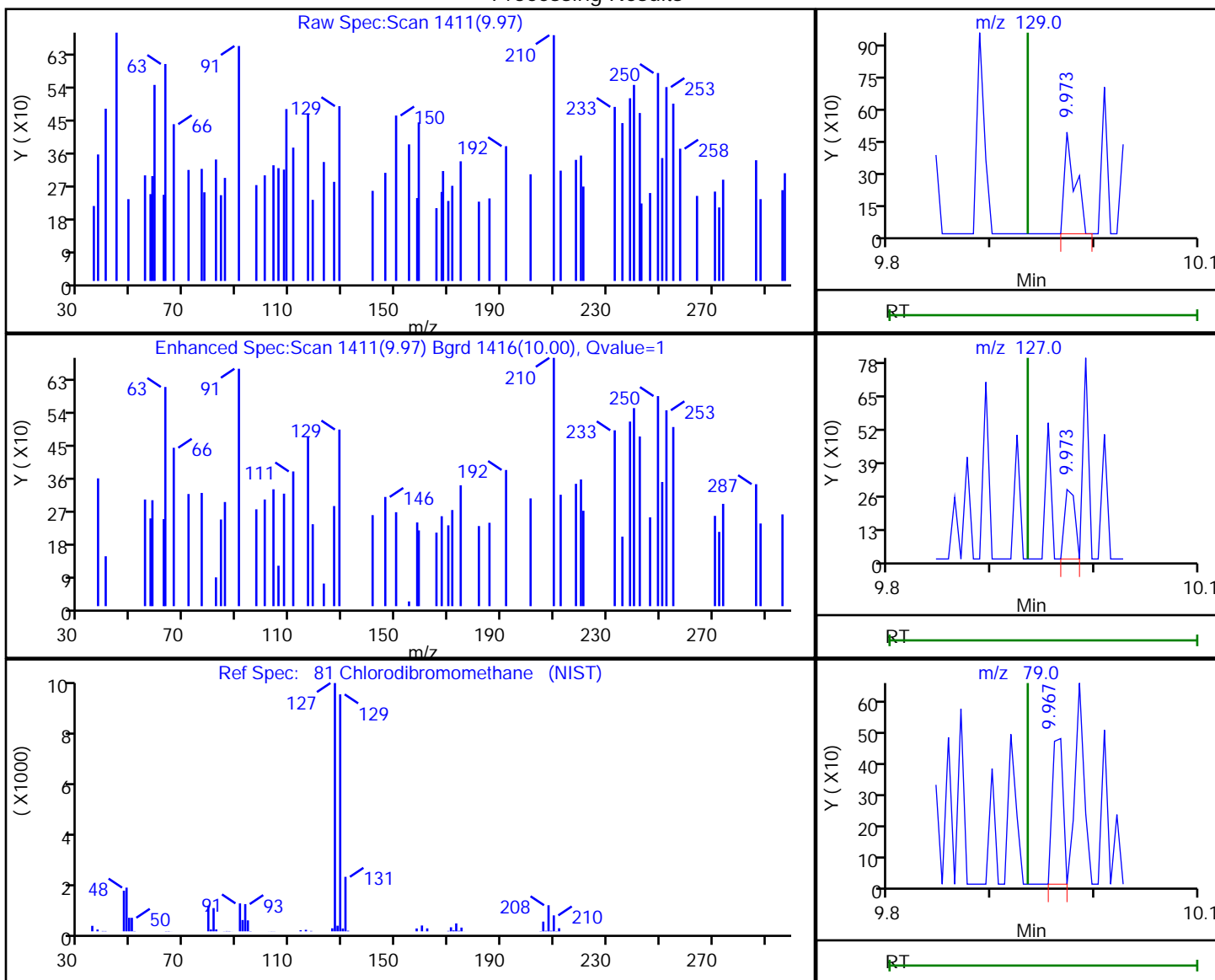
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101906A.D
Injection Date: 19-Oct-2019 15:44:30 Instrument ID: CHHP6
Lims ID: MB
Client ID:
Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

81 Chlorodibromomethane, CAS: 124-48-1

Processing Results



RT	Mass	Response	Amount
9.97	129.00	352	0.190084
9.97	127.00	192	
9.97	79.00	344	

Reviewer: bowieh, 22-Oct-2019 09:22:56

Audit Action: Marked Compound Undetected

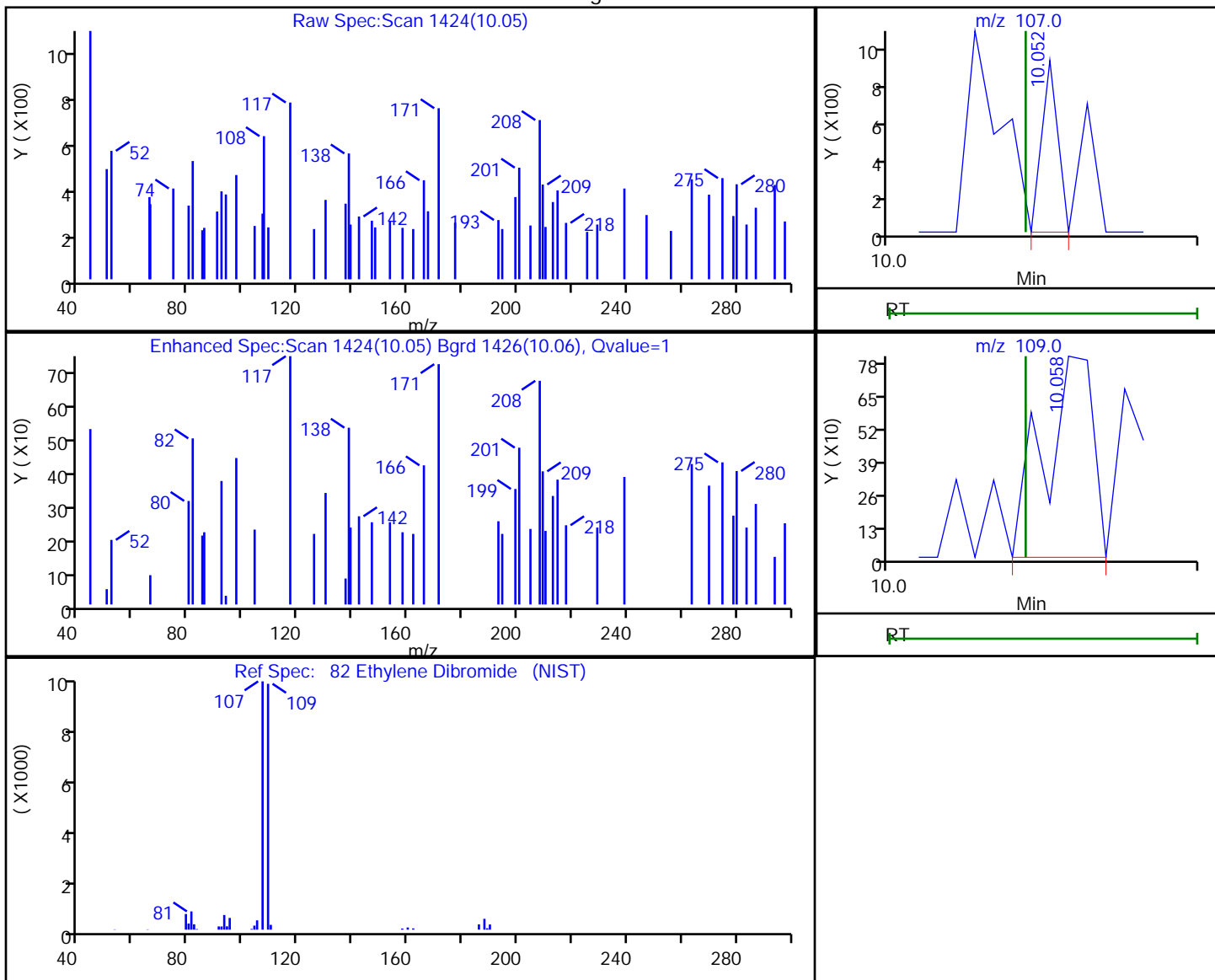
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101906A.D
 Injection Date: 19-Oct-2019 15:44:30 Instrument ID: CHHP6
 Lims ID: MB
 Client ID:
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

82 Ethylene Dibromide, CAS: 106-93-4

Processing Results



RT	Mass	Response	Amount
10.05	107.00	322	0.166904
10.06	109.00	878	

Reviewer: bowieh, 22-Oct-2019 09:22:57

Audit Action: Marked Compound Undetected

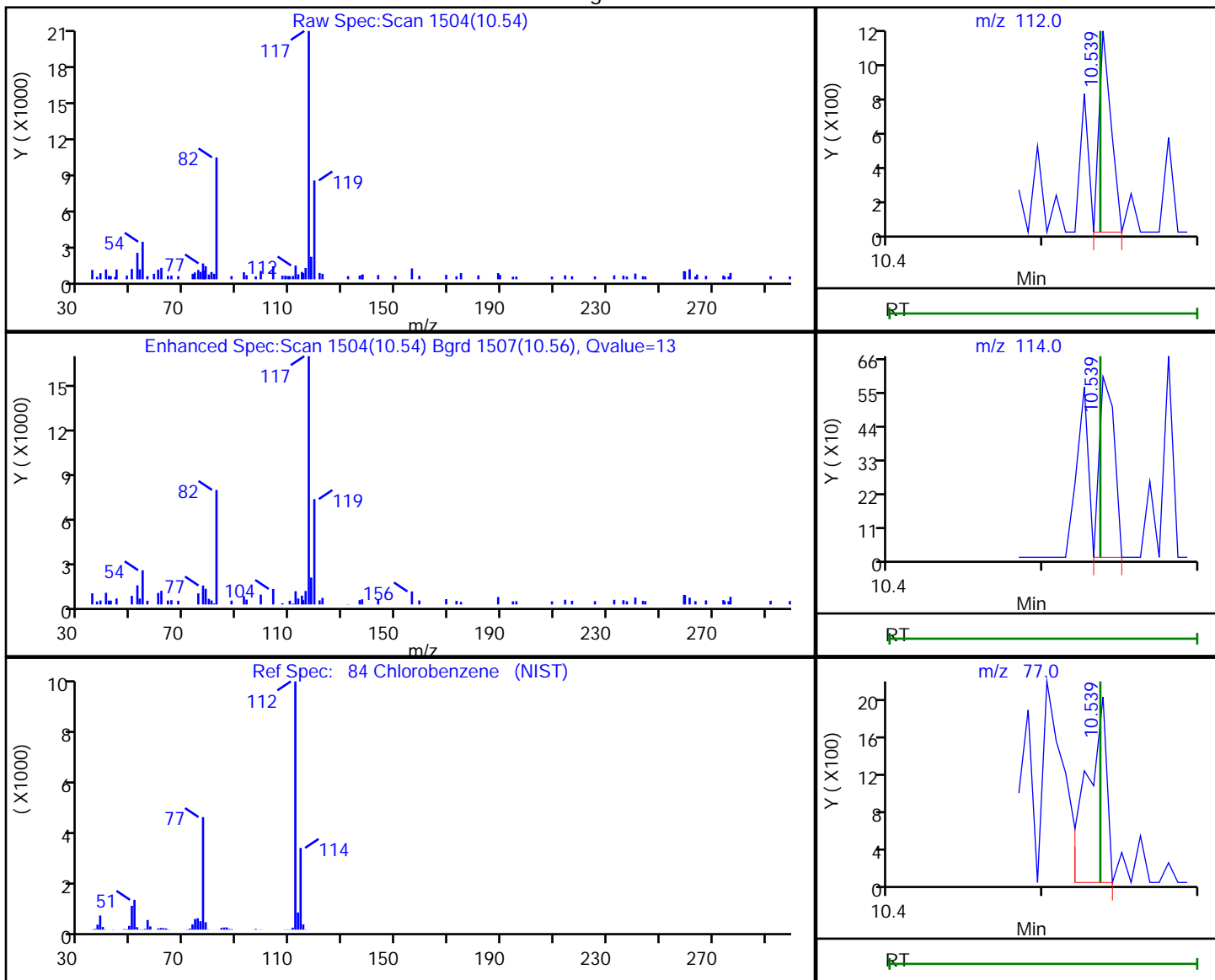
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101906A.D
 Injection Date: 19-Oct-2019 15:44:30 Instrument ID: CHHP6
 Lims ID: MB
 Client ID:
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

84 Chlorobenzene, CAS: 108-90-7

Processing Results



RT	Mass	Response	Amount
10.54	112.00	595	0.087153
10.54	114.00	399	
10.54	77.00	1746	

Reviewer: bowieh, 22-Oct-2019 09:22:58

Audit Action: Marked Compound Undetected

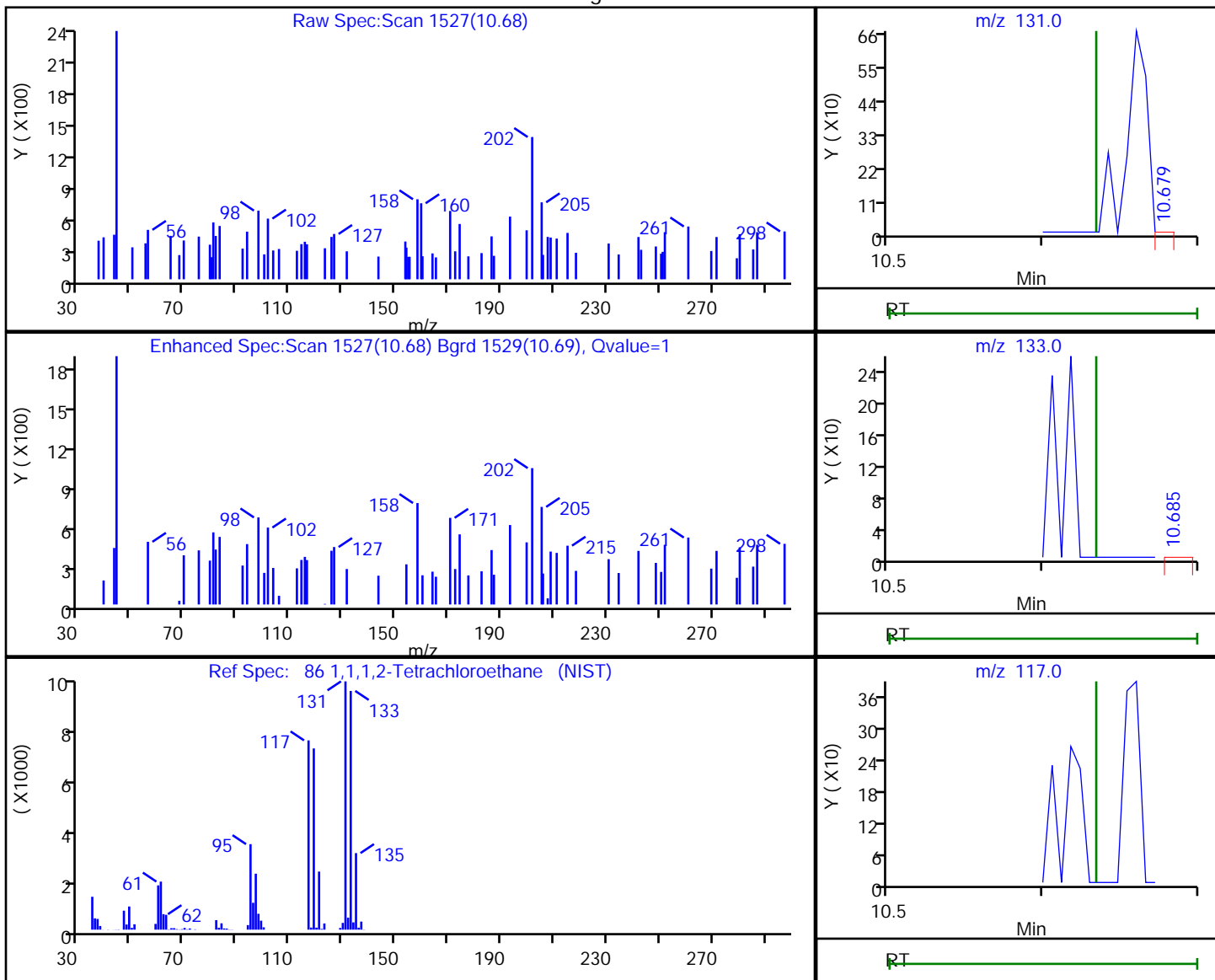
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101906A.D
 Injection Date: 19-Oct-2019 15:44:30 Instrument ID: CHHP6
 Lims ID: MB
 Client ID:
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

86 1,1,1,2-Tetrachloroethane, CAS: 630-20-6

Processing Results



RT	Mass	Response	Amount
10.68	131.00	97	0.044381
10.68	133.00	160	
10.63	117.00	0	

Reviewer: bowieh, 22-Oct-2019 09:23:05

Audit Action: Marked Compound Undetected

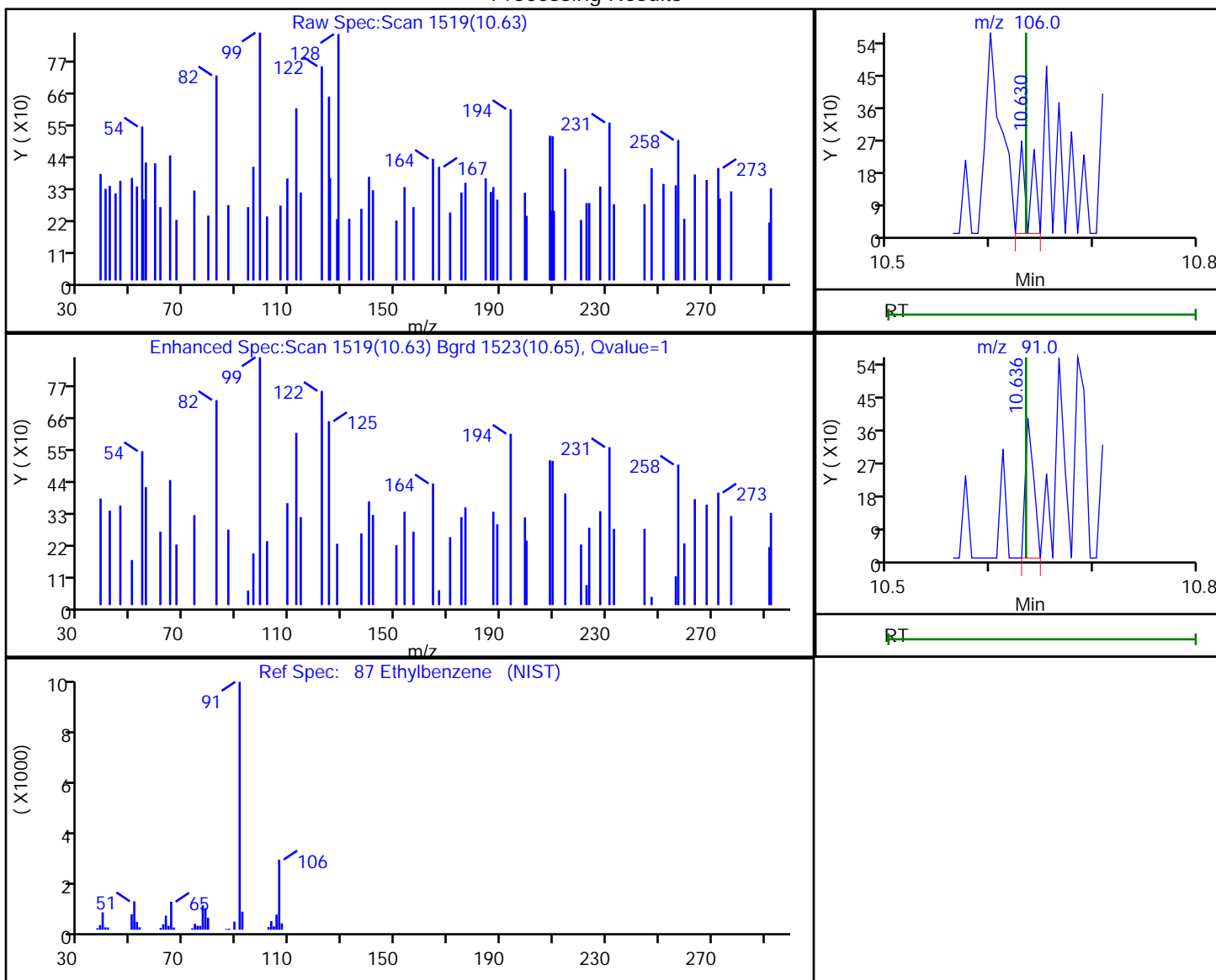
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101906A.D
 Injection Date: 19-Oct-2019 15:44:30 Instrument ID: CHHP6
 Lims ID: MB
 Client ID:
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

87 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
10.63	106.00	183	0.045734
10.64	91.00	217	

Reviewer: bowieh, 22-Oct-2019 09:23:07

Audit Action: Marked Compound Undetected

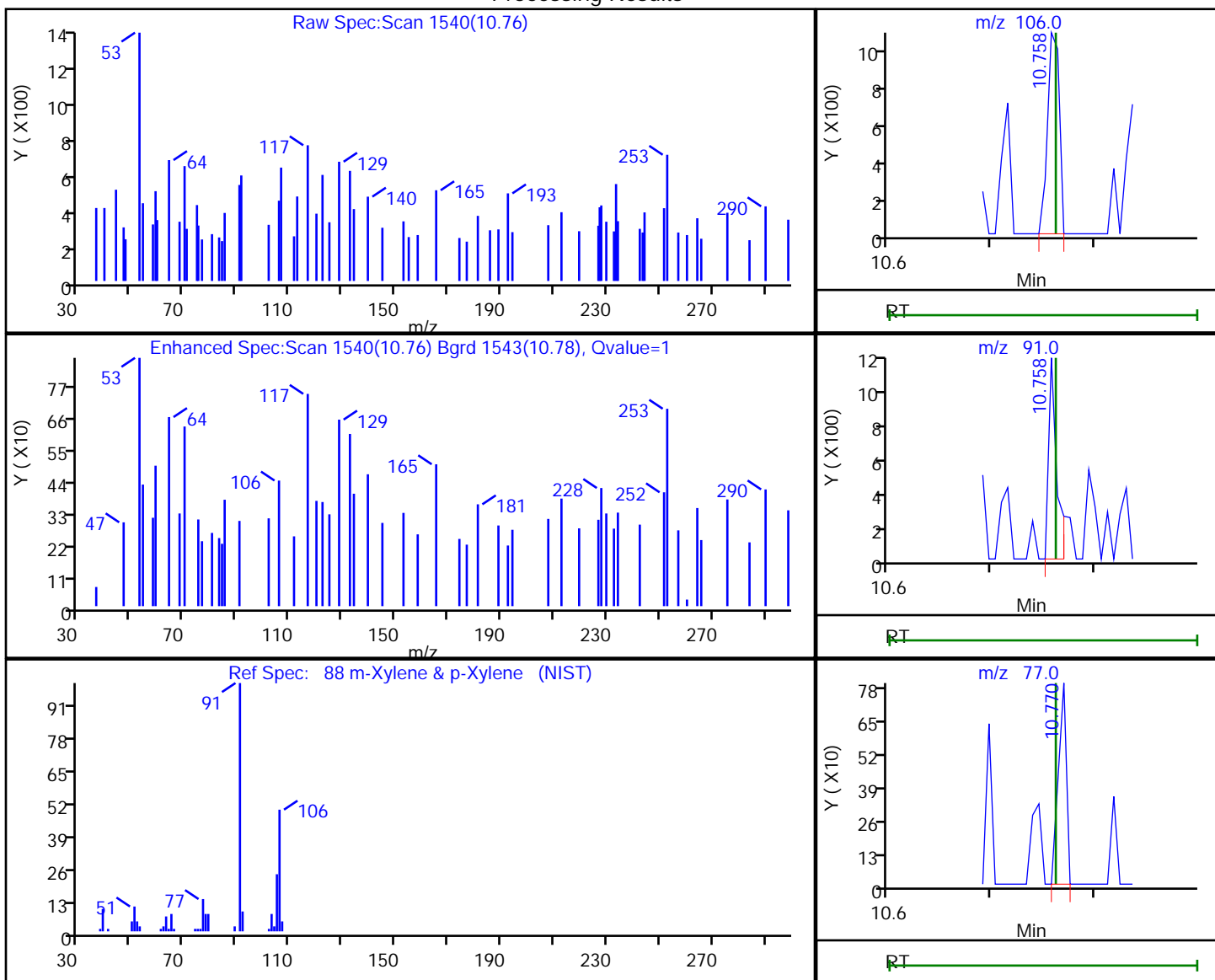
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101906A.D
 Injection Date: 19-Oct-2019 15:44:30 Instrument ID: CHHP6
 Lims ID: MB
 Client ID:
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

88 m-Xylene & p-Xylene, CAS: 179601-23-1

Processing Results



RT	Mass	Response	Amount
10.76	106.00	845	0.172923
10.76	91.00	612	
10.77	77.00	434	

Reviewer: bowieh, 22-Oct-2019 09:23:16

Audit Action: Marked Compound Undetected

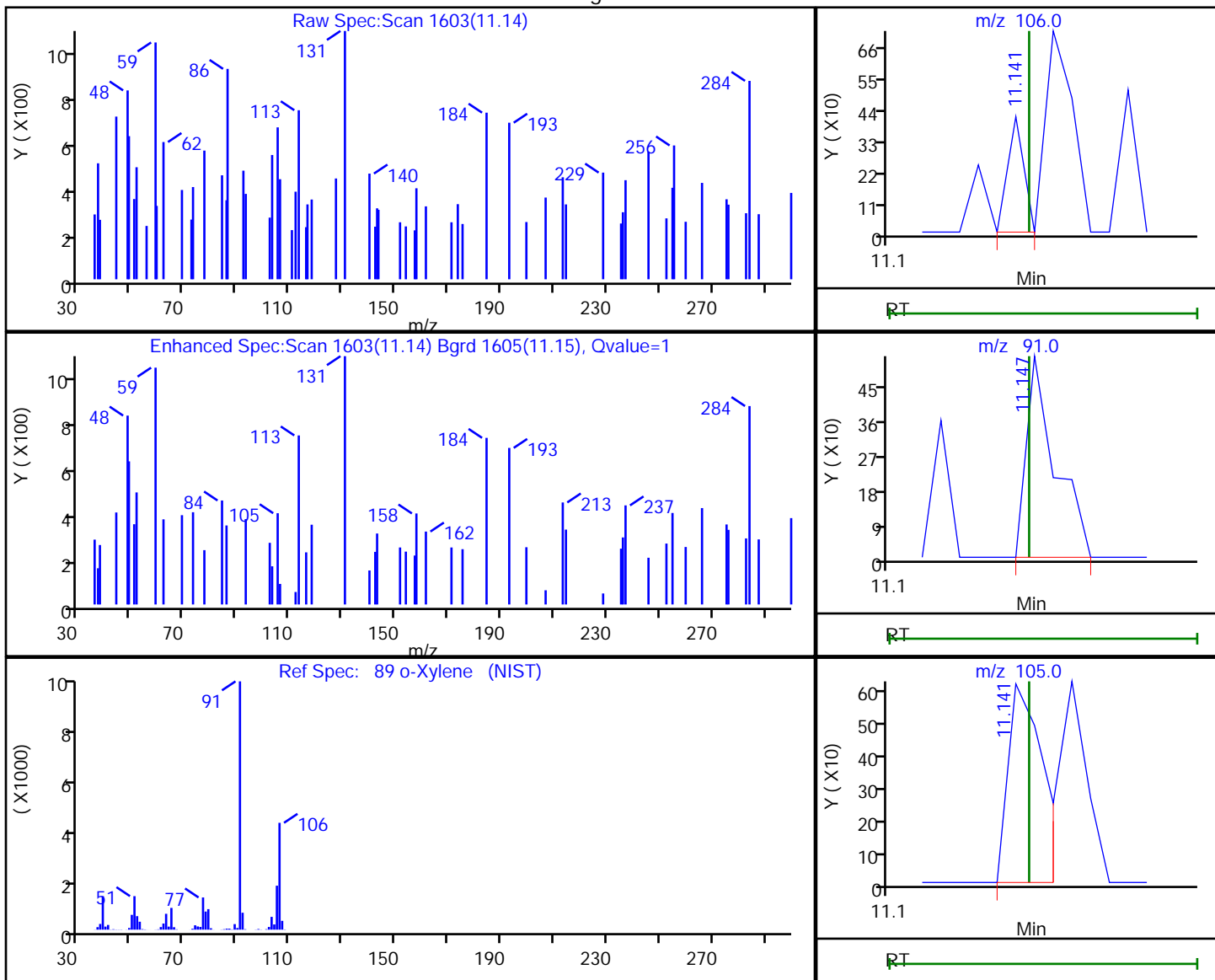
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101906A.D
 Injection Date: 19-Oct-2019 15:44:30 Instrument ID: CHHP6
 Lims ID: MB
 Client ID:
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

89 o-Xylene, CAS: 95-47-6

Processing Results



RT	Mass	Response	Amount
11.14	106.00	149	0.031697
11.15	91.00	340	
11.14	105.00	496	

Reviewer: bowieh, 22-Oct-2019 09:23:17

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

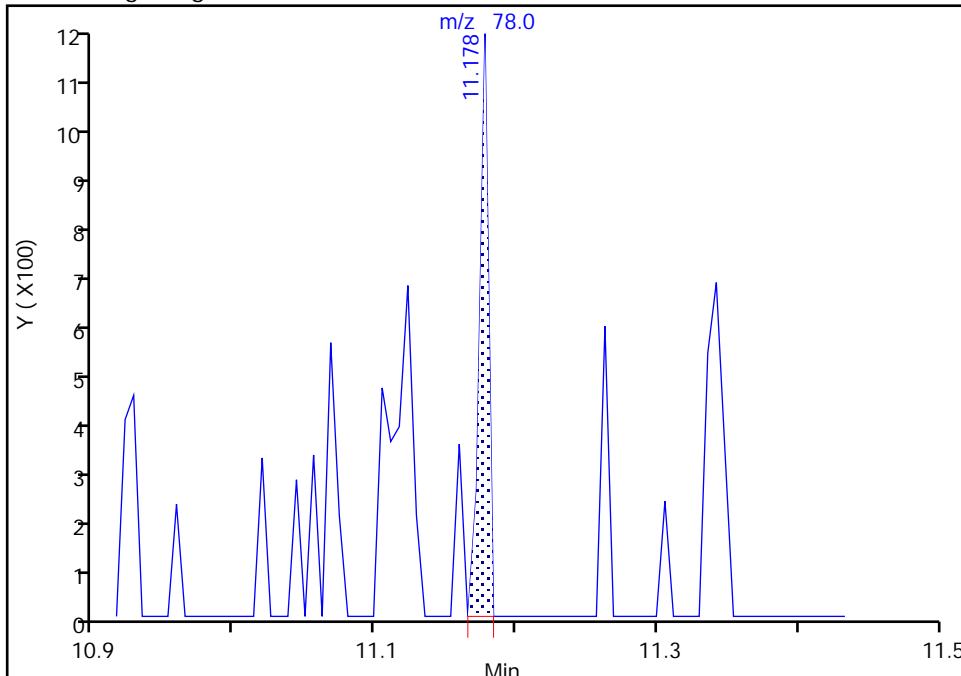
Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101906A.D
Injection Date: 19-Oct-2019 15:44:30 Instrument ID: CHHP6
Lims ID: MB
Client ID:
Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

90 Styrene, CAS: 100-42-5

Signal: 2

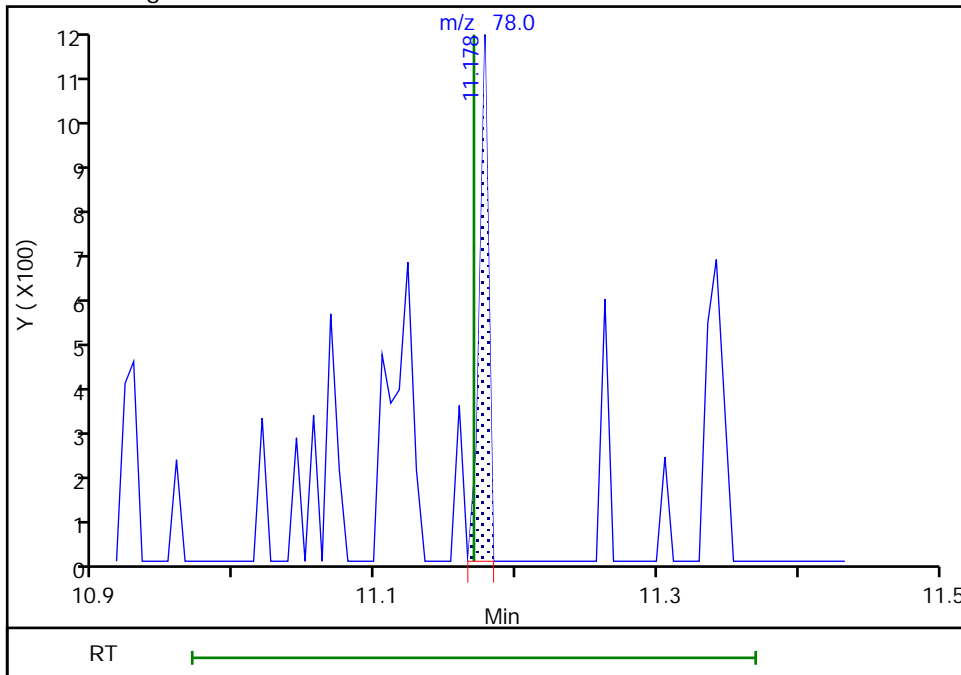
RT: 11.18
Area: 520
Amount: 0.153554
Amount Units: ng

Processing Integration Results



RT: 11.18
Area: 520
Amount: 0.153554
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 22-Oct-2019 09:23:18
Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

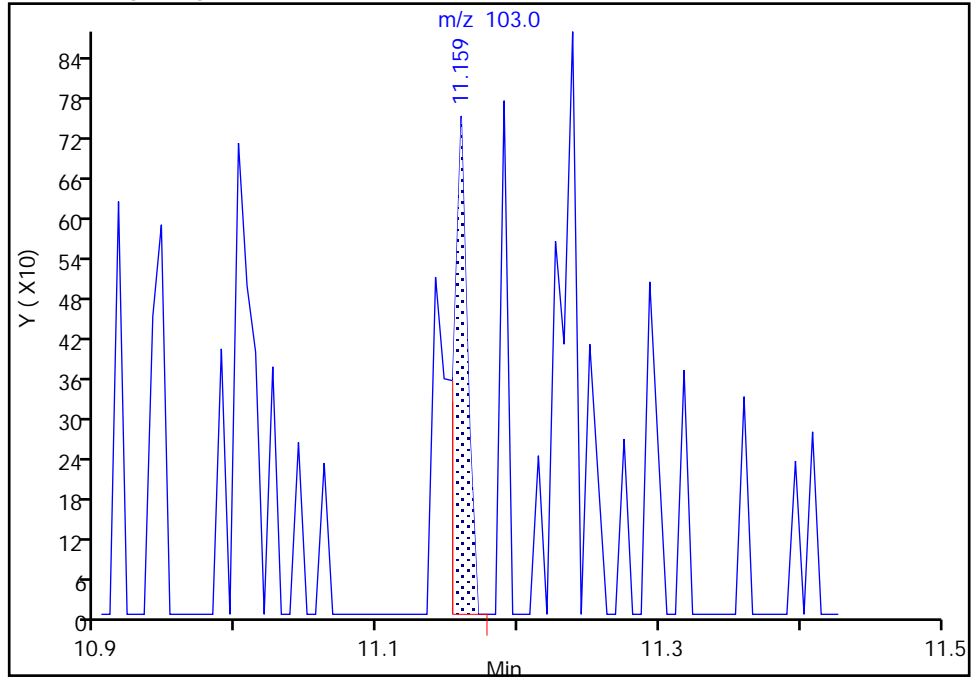
Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101906A.D
Injection Date: 19-Oct-2019 15:44:30 Instrument ID: CHHP6
Lims ID: MB
Client ID:
Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

90 Styrene, CAS: 100-42-5

Signal: 3

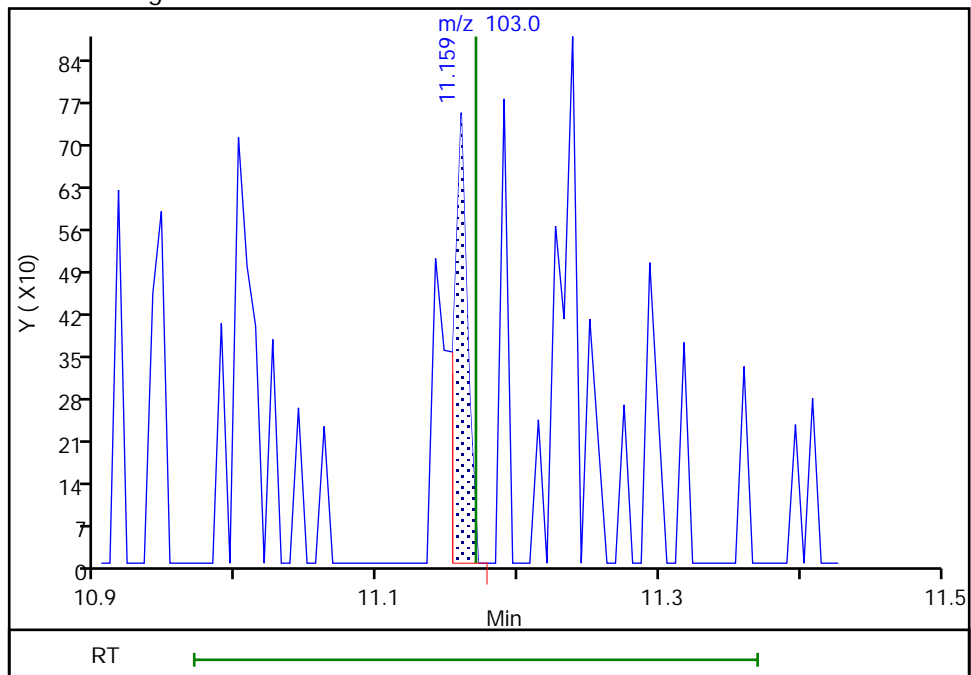
RT: 11.16
Area: 503
Amount: 0.153554
Amount Units: ng

Processing Integration Results



RT: 11.16
Area: 503
Amount: 0.153554
Amount Units: ng

Manual Integration Results

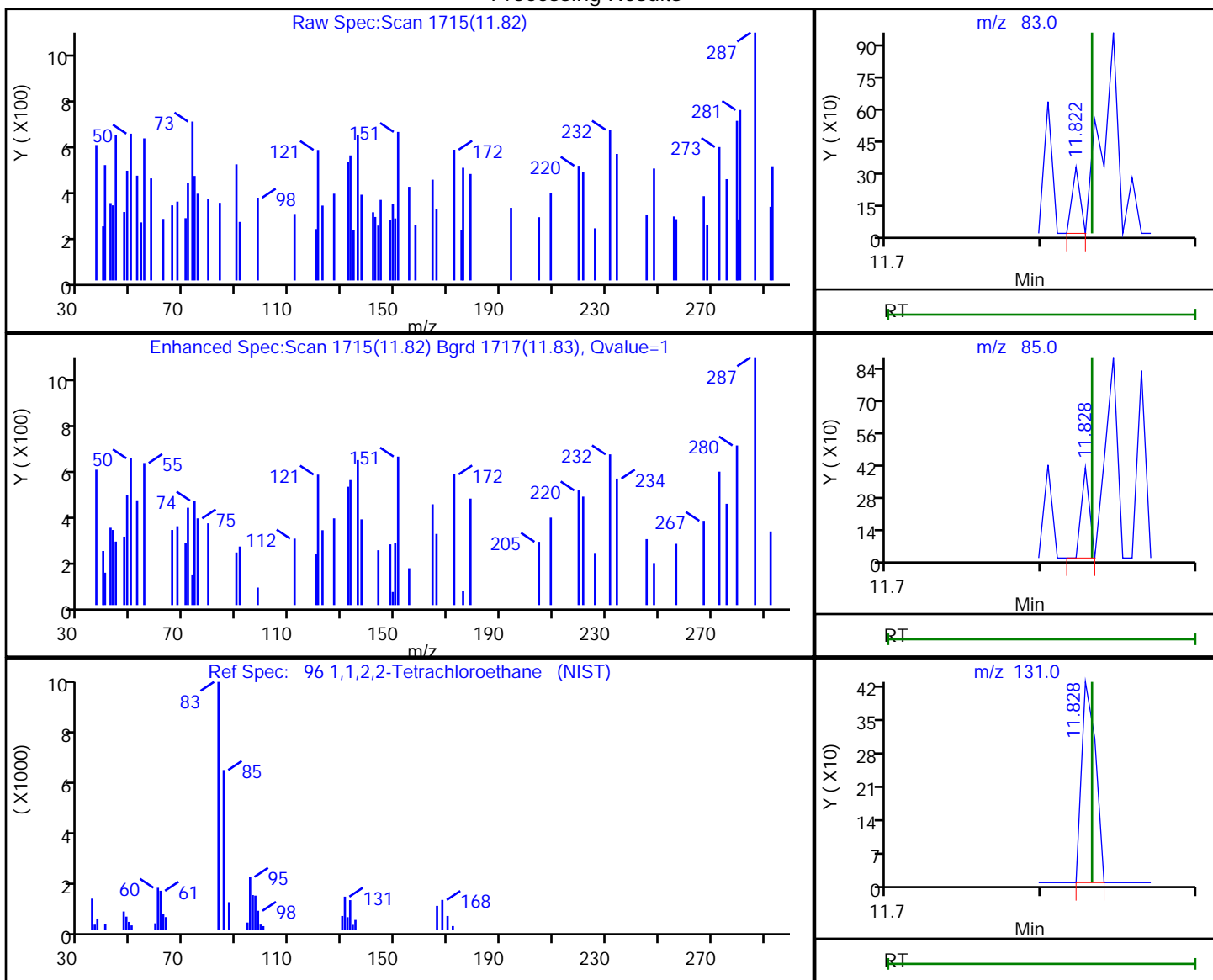


Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101906A.D
 Injection Date: 19-Oct-2019 15:44:30 Instrument ID: CHHP6
 Lims ID: MB
 Client ID:
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

96 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Processing Results



RT	Mass	Response	Amount
11.82	83.00	115	0.057103
11.83	85.00	146	
11.83	131.00	267	

Reviewer: bowieh, 22-Oct-2019 09:23:37

Audit Action: Marked Compound Undetected

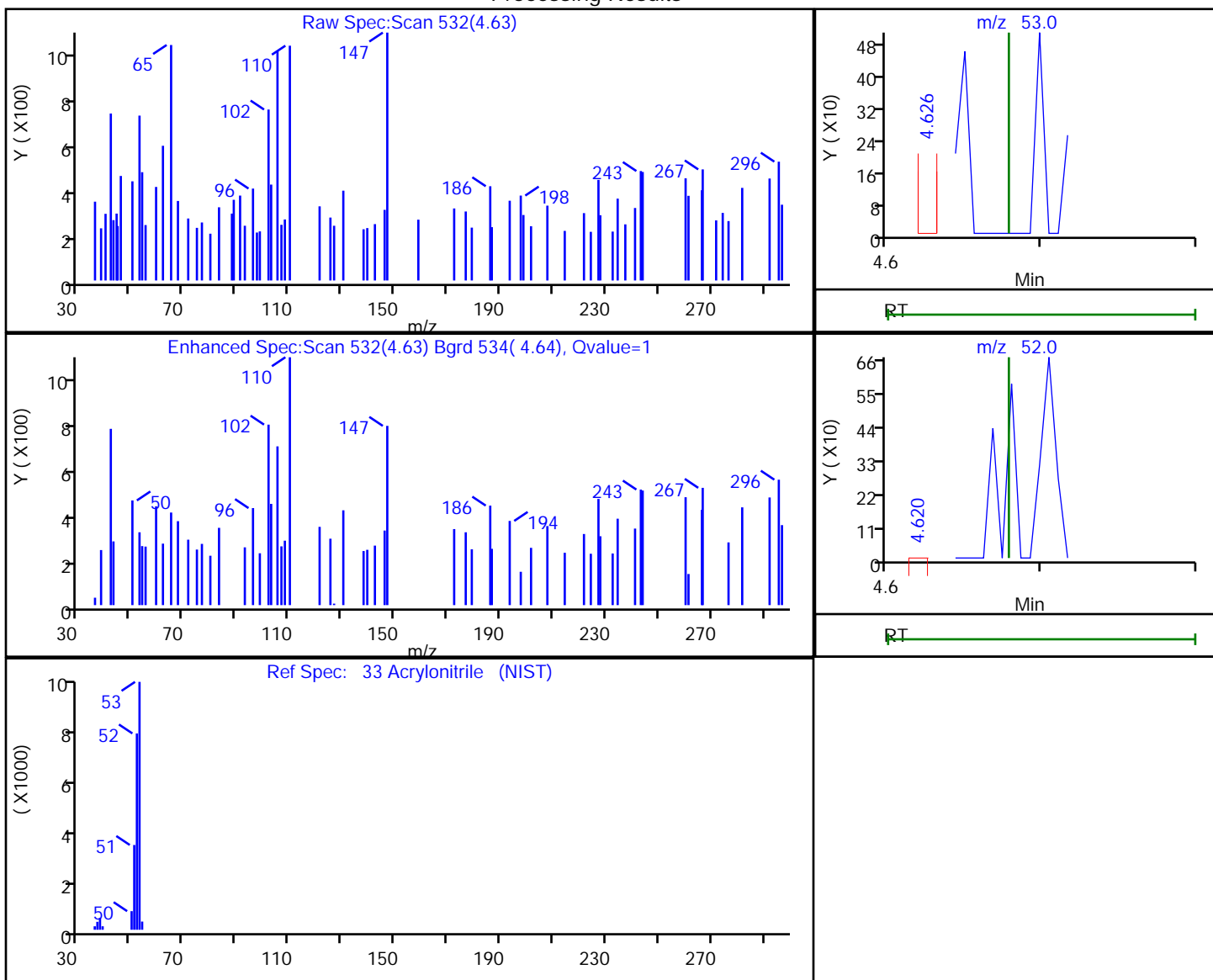
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101906A.D
 Injection Date: 19-Oct-2019 15:44:30 Instrument ID: CHHP6
 Lims ID: MB
 Client ID:
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

33 Acrylonitrile, CAS: 107-13-1

Processing Results



RT	Mass	Response	Amount
4.63	53.00	257	0.288098
4.62	52.00	79	

Reviewer: bowieh, 22-Oct-2019 09:17:46

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 180-295765/6
 Matrix: Water Lab File ID: 6102306A.D
 Analysis Method: EPA 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 10/23/2019 12:13
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 295765 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	ND		1.0	0.90
75-01-4	Vinyl chloride	ND		1.0	0.88
74-83-9	Bromomethane	ND		1.0	0.89
75-00-3	Chloroethane	ND		1.0	0.90
75-35-4	1,1-Dichloroethene	ND		1.0	0.55
67-64-1	Acetone	ND		5.0	3.4
75-15-0	Carbon disulfide	ND		1.0	0.88
75-09-2	Methylene Chloride	ND		1.0	0.89
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.67
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.59
75-34-3	1,1-Dichloroethane	ND		1.0	0.63
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.71
74-97-5	Bromochloromethane	ND		1.0	0.63
78-93-3	2-Butanone (MEK)	ND		5.0	2.6
67-66-3	Chloroform	ND		1.0	0.60
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.60
56-23-5	Carbon tetrachloride	ND		1.0	0.88
71-43-2	Benzene	ND		1.0	0.60
107-06-2	1,2-Dichloroethane	ND		1.0	0.57
79-01-6	Trichloroethene	ND		1.0	0.69
78-87-5	1,2-Dichloropropane	ND		1.0	0.66
75-27-4	Bromodichloromethane	ND		1.0	0.64
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.59
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	3.1
108-88-3	Toluene	ND		1.0	0.46
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.58
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.45
127-18-4	Tetrachloroethene	ND		1.0	0.47
591-78-6	2-Hexanone	ND		5.0	3.3
124-48-1	Dibromochloromethane	ND		1.0	0.84
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.50
108-90-7	Chlorobenzene	ND		1.0	0.50
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.57
100-41-4	Ethylbenzene	ND		1.0	0.51
1330-20-7	Xylenes, Total	ND		2.0	0.89
100-42-5	Styrene	ND		1.0	0.47

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 180-295765/6
 Matrix: Water Lab File ID: 6102306A.D
 Analysis Method: EPA 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 10/23/2019 12:13
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 295765 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	ND		1.0	0.98
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.60
107-13-1	Acrylonitrile	ND		20	7.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		70-150
2037-26-5	Toluene-d8 (Surr)	119		78-128
460-00-4	4-Bromofluorobenzene (Surr)	107		64-123
1868-53-7	Dibromofluoromethane (Surr)	95		75-147

Eurofins TestAmerica, Pittsburgh
Target Compound Quantitation Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\6102306A.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 23-Oct-2019 12:13:30 ALS Bottle#: 7 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-0029242-006
 Misc. Info.: MB
 Operator ID: 433269 Instrument ID: CHHP6
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C_D ICAL
 Last Update: 24-Oct-2019 09:09:46 Calib Date: 18-Oct-2019 18:47:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101817.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX0337

First Level Reviewer: bowieh Date: 24-Oct-2019 09:09:46

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.435	4.435	0.000	94	146720	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.404	7.410	-0.006	98	467730	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.506	10.512	-0.006	93	104769	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.848	12.854	-0.006	96	161732	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.680	6.686	-0.006	92	104535	50.0	47.6	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	7.057	7.051	0.006	97	182148	50.0	54.2	
\$ 7 Toluene-d8 (Surr)	98	9.058	9.052	0.006	95	453718	50.0	59.5	
\$ 8 4-Bromofluorobenzene (Surr	95	11.693	11.693	0.001	0	167940	50.0	53.4	
11 Dichlorodifluoromethane	85		1.667					ND	
12 Chloromethane	50		1.874					ND	
13 Vinyl chloride	62		2.002					ND	U
14 Butadiene	39		2.008					ND	
15 Bromomethane	94		2.342					ND	U
16 Chloroethane	64		2.488					ND	
17 Dichlorofluoromethane	67		2.780					ND	
18 Trichlorofluoromethane	101		2.792					ND	
19 Ethanol	45	2.835	2.853	-0.018	0	76			NC
20 Ethyl ether	59		3.170					ND	
21 Acrolein	56		3.360					ND	
22 1,1-Dichloroethene	96		3.468					ND	
23 1,1,2-Trichloro-1,2,2-trif	101		3.553					ND	
24 Acetone	43		3.583					ND	U
25 Iodomethane	142		3.662					ND	
26 Carbon disulfide	76		3.754					ND	U
27 Isopropyl alcohol	45		3.876					ND	U
28 Acetonitrile	41		4.034					ND	U
29 3-Chloro-1-propene	76		4.070					ND	U
30 Methyl acetate	43		4.100					ND	
31 Methylene Chloride	84	4.277	4.295	-0.018	61	8671		0.4369	
32 2-Methyl-2-propanol	59		4.551					ND	U
33 Acrylonitrile	53		4.678					ND	U

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
34 trans-1,2-Dichloroethene	96		4.703					ND	U
35 Methyl tert-butyl ether	73		4.709					ND	U
36 Hexane	57		5.110					ND	U
37 1,1-Dichloroethane	63		5.335					ND	
38 Vinyl acetate	43		5.384					ND	U
40 Isopropyl ether	45		5.427					ND	U
41 Tert-butyl ethyl ether	59		5.427					ND	
39 2-Chloro-1,3-butadiene	53		5.427					ND	
42 2,2-Dichloropropane	97		6.065					ND	U
43 cis-1,2-Dichloroethene	96		6.077					ND	
44 2-Butanone (MEK)	43		6.090					ND	
46 Ethyl acetate	43		6.164					ND	U
45 Propionitrile	54		6.176					ND	U
47 Methacrylonitrile	41		6.346					ND	U
48 Chlorobromomethane	128		6.363					ND	
49 Tetrahydrofuran	42		6.376					ND	U
50 Chloroform	83	6.509	6.503	0.006	66	8090		1.66	
51 1,1,1-Trichloroethane	97		6.661					ND	U
52 Cyclohexane	56		6.728					ND	
53 Carbon tetrachloride	117		6.826					ND	
54 1,1-Dichloropropene	75		6.844					ND	U
55 Isobutyl alcohol	41		7.057					ND	U
56 Benzene	78		7.063					ND	U
57 1,2-Dichloroethane	62		7.136					ND	U
148 Isooctane	57		7.210					ND	
58 Tert-amyl methyl ether	73		7.234					ND	U
59 n-Heptane	43		7.416					ND	U
60 n-Butanol	56		7.764					ND	U
61 Trichloroethene	130		7.793					ND	
62 Ethyl acrylate	55		7.910					ND	U
63 Methylcyclohexane	83		8.024					ND	
64 1,2-Dichloropropane	63		8.067					ND	U
65 1,4-Dioxane	88		8.146					ND	
67 Dibromomethane	93		8.146					ND	U
66 Methyl methacrylate	69		8.147					ND	U
68 Dichlorobromomethane	83		8.347					ND	
70 2-Chloroethyl vinyl ether	63		8.651					ND	U
71 cis-1,3-Dichloropropene	75		8.791					ND	
72 4-Methyl-2-pentanone (MIBK)	43		8.949					ND	U
73 Toluene	91		9.119					ND	U
74 trans-1,3-Dichloropropene	75		9.369					ND	
75 Ethyl methacrylate	69		9.429					ND	U
76 1,1,2-Trichloroethane	97		9.563					ND	U
77 Tetrachloroethene	164		9.636					ND	
78 1,3-Dichloropropane	76		9.721					ND	
79 2-Hexanone	43		9.782					ND	U
80 n-Butyl acetate	43		9.893					ND	
81 Chlorodibromomethane	129		9.934					ND	U
82 Ethylene Dibromide	107		10.044					ND	U
83 3-Chlorobenzotrifluoride	180		10.180					ND	
85 4-Chlorobenzotrifluoride	180	10.470	10.289	0.181	1	201		NC	
84 Chlorobenzene	112		10.537					ND	U

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
86 1,1,1,2-Tetrachloroethane	131		10.634					ND	U
87 Ethylbenzene	106		10.634					ND	U
88 m-Xylene & p-Xylene	106		10.768					ND	U
92 2-Chlorobenzotrifluoride	180		11.087					ND	
89 o-Xylene	106		11.151					ND	
90 Styrene	104		11.169					ND	
91 Bromoform	173		11.352					ND	
93 Isopropylbenzene	105		11.516					ND	U
94 Cyclohexanone	55		11.602					ND	
95 Bromobenzene	156		11.832					ND	U
96 1,1,2,2-Tetrachloroethane	83		11.832					ND	
97 trans-1,4-Dichloro-2-buten	53		11.869					ND	U
98 1,2,3-Trichloropropane	110		11.887					ND	
99 N-Propylbenzene	120		11.936					ND	U
101 3-Chlorotoluene	126	12.088	11.943	0.145	1	226		NC	
100 2-Chlorotoluene	126		12.027					ND	U
102 1,3,5-Trimethylbenzene	105		12.118					ND	
103 4-Chlorotoluene	126		12.143					ND	U
107 1,2-dichloro-4-(trifluorom	214		12.194					ND	
104 tert-Butylbenzene	119		12.429					ND	
106 1,2,4-Trimethylbenzene	105		12.489					ND	U
113 2,4-Dichloro-1-(triflourom	214		12.559					ND	
114 2,5-Dichlorobenzotrifluori	214		12.602					ND	
108 sec-Butylbenzene	105		12.654					ND	U
109 1,3-Dichlorobenzene	146		12.775					ND	U
110 4-Isopropyltoluene	119		12.812					ND	U
111 1,4-Dichlorobenzene	146		12.879					ND	U
112 1,2,3-Trimethylbenzene	105		12.892					ND	
115 Benzyl chloride	91		12.983					ND	
116 n-Butylbenzene	91		13.219					ND	
117 1,2-Dichlorobenzene	146		13.238					ND	U
119 2,4- & 2,5- & 2,6- Dichlor	125	13.877	13.812	0.065	1	74		NC	
118 1,2-Dibromo-3-Chloropropan	75		14.035					ND	
120 1,3,5-Trichlorobenzene	180		14.200					ND	U
121 2,3- & 3,4- Dichlorotoluen	125	14.089	14.226	-0.137	1	89		NC	
122 1,2,4-Trichlorobenzene	180	14.850	14.850	0.000	2	2210		1.04	
123 Hexachlorobutadiene	225		14.990					ND	U
124 Naphthalene	128	15.118	15.124	-0.006	5	5737		1.26	
125 1,2,3-Trichlorobenzene	180		15.355					ND	U
126 2,4,5-Trichlorotoluene	159	15.890	15.765	0.125	1	221		NC	
127 2,3,6-Trichlorotoluene	159	15.890	15.874	0.016	1	221		NC	
S 130 1,2-Dichloroethene, Total	96		1.000					ND	
S 131 Xylenes, Total	106		1.000					ND	
S 154 Total BTEX	1		0.000					ND	
S 132 1,3-Dichloropropene, Total	1		0.000					ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

U - Marked Undetected

Reagents:

voaWI/SHP5_00014

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\6102306A.D

Injection Date: 23-Oct-2019 12:13:30

Instrument ID: CHHP6

Operator ID: 433269

Lims ID: MB

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

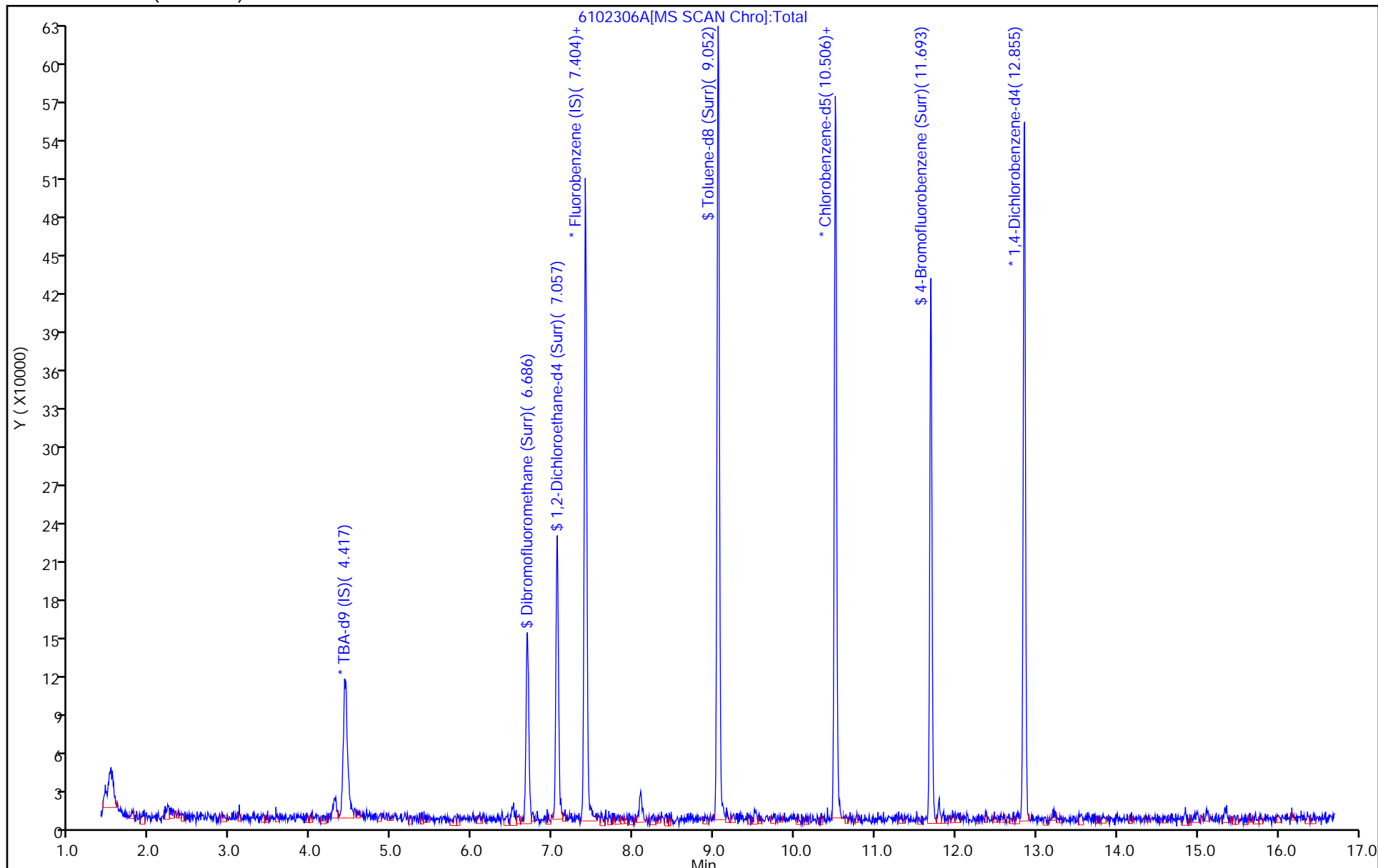
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C_D ICAL

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Pittsburgh
Recovery Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\6102306A.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 23-Oct-2019 12:13:30 ALS Bottle#: 7 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-0029242-006
 Misc. Info.: MB
 Operator ID: 433269 Instrument ID: CHHP6
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C_D ICAL
 Last Update: 24-Oct-2019 09:09:46 Calib Date: 18-Oct-2019 18:47:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101817.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX0337

First Level Reviewer: bowieh Date: 24-Oct-2019 09:09:46

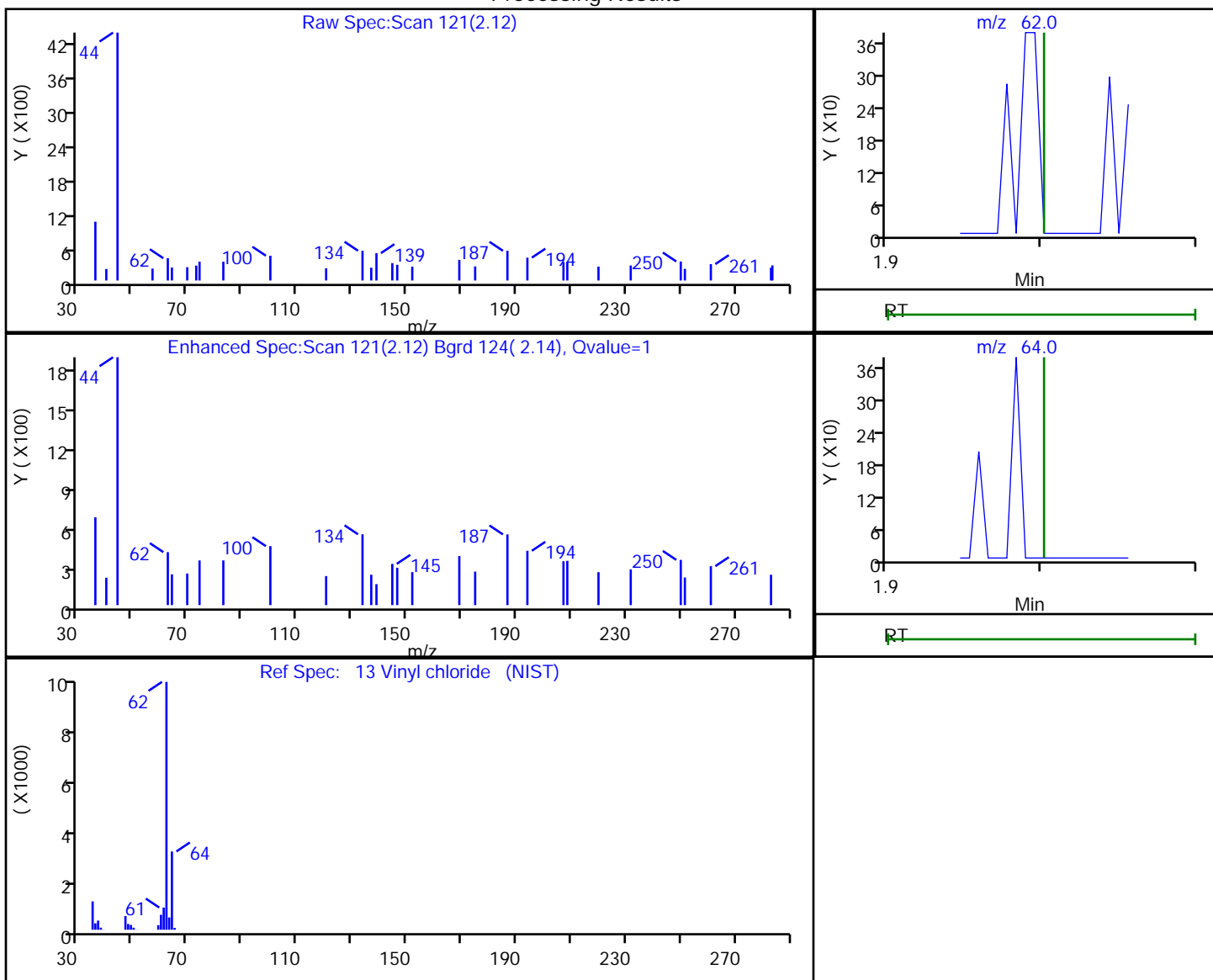
Compound	Amount Added	Amount Recovered	% Rec.
\$ 5 Dibromofluoromethane (Surr)	50.0	47.6	95.14
\$ 6 1,2-Dichloroethane-d4 (Surr)	50.0	54.2	108.47
\$ 7 Toluene-d8 (Surr)	50.0	59.5	119.08
\$ 8 4-Bromofluorobenzene (Surr)	50.0	53.4	106.75

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\6102306A.D
 Injection Date: 23-Oct-2019 12:13:30 Instrument ID: CHHP6
 Lims ID: MB
 Client ID:
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

13 Vinyl chloride, CAS: 75-01-4

Processing Results



RT	Mass	Response	Amount
2.12	62.00	247	0.073611
2.13	64.00	194	

Reviewer: bowieh, 24-Oct-2019 09:06:27

Audit Action: Marked Compound Undetected

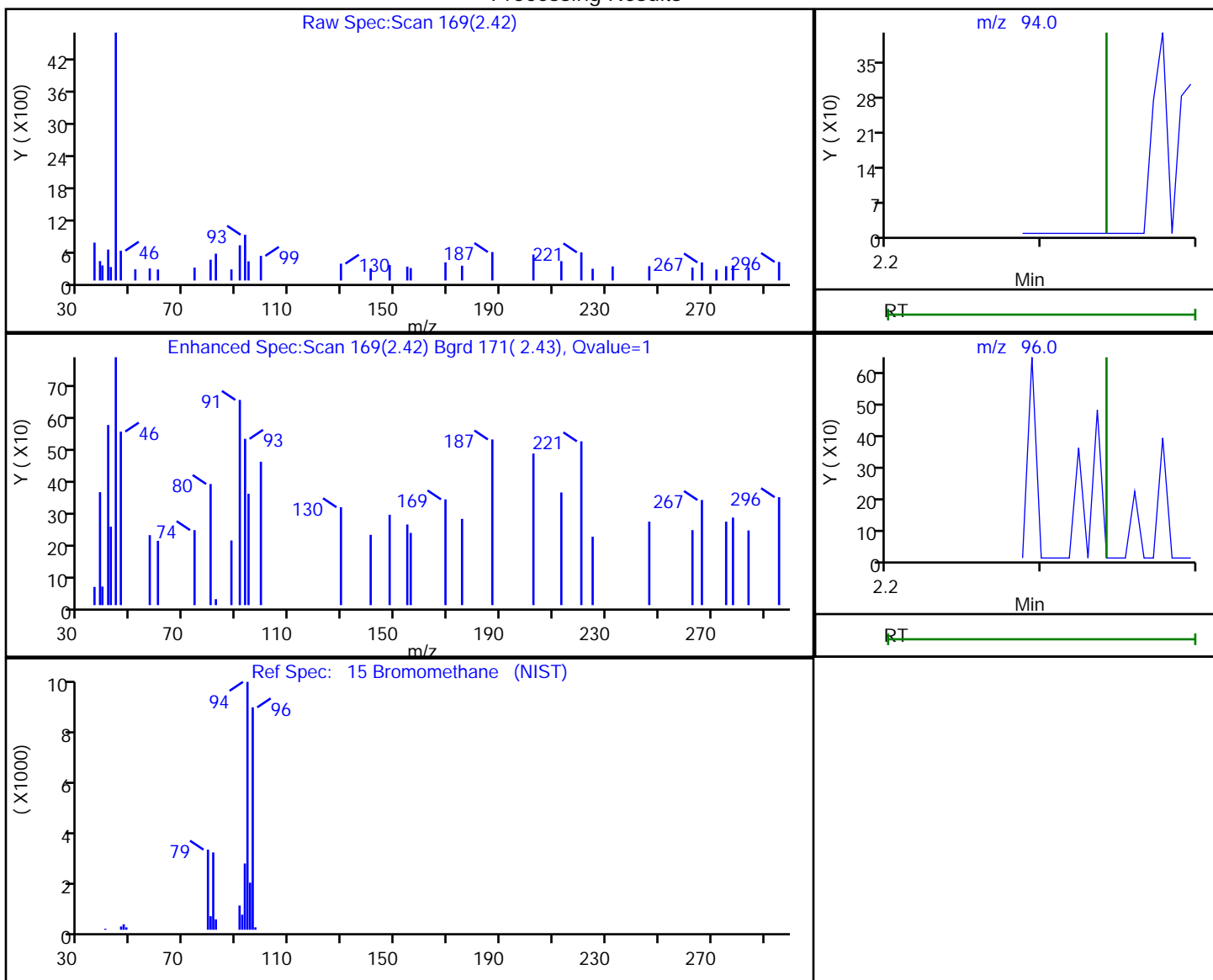
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\6102306A.D
Injection Date: 23-Oct-2019 12:13:30 Instrument ID: CHHP6
Lims ID: MB
Client ID:
Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

15 Bromomethane, CAS: 74-83-9

Processing Results



RT	Mass	Response	Amount
2.42	94.00	209	0.147600
2.41	96.00	255	

Reviewer: bowieh, 24-Oct-2019 09:06:30

Audit Action: Marked Compound Undetected

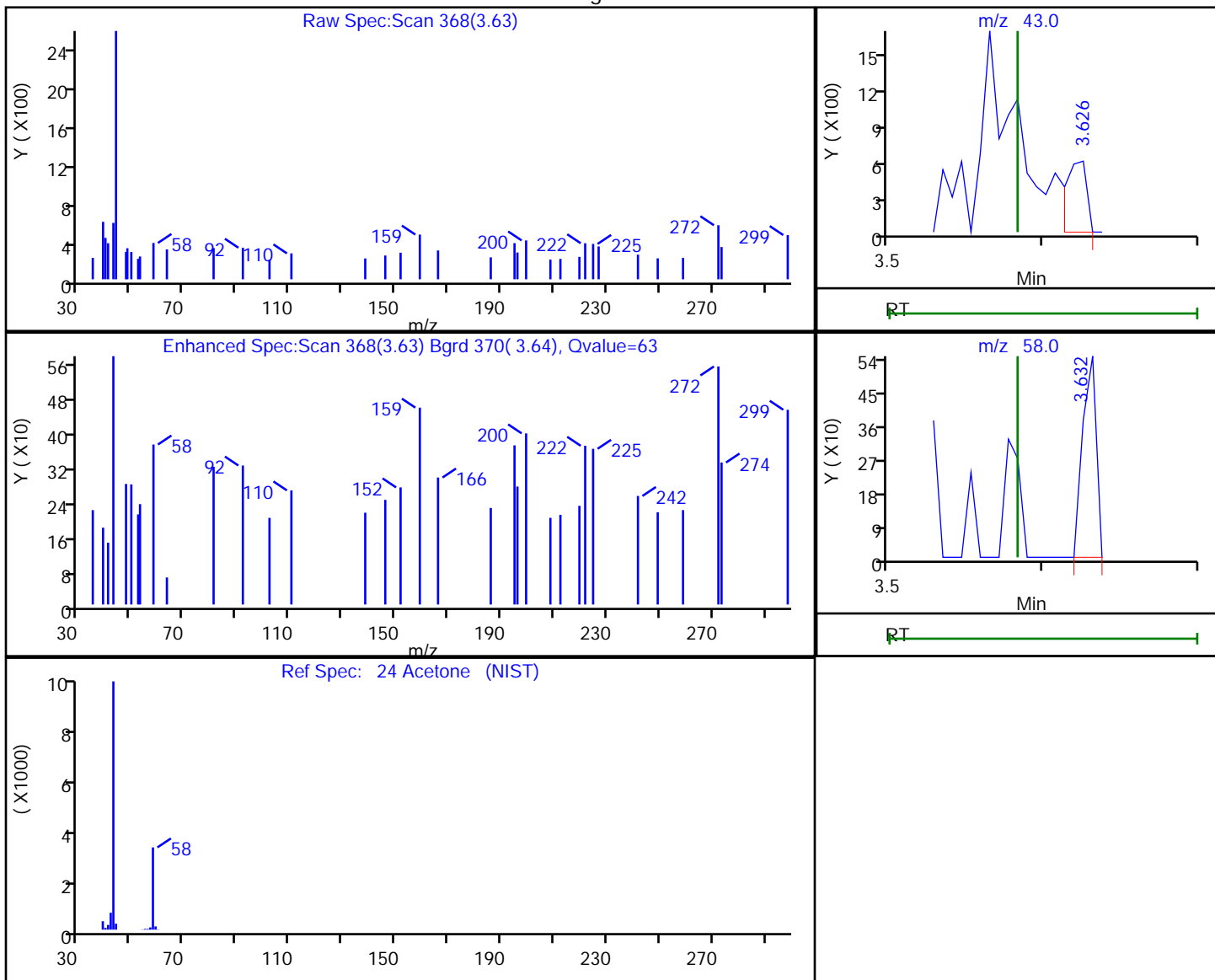
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\6102306A.D
Injection Date: 23-Oct-2019 12:13:30 Instrument ID: CHHP6
Lims ID: MB
Client ID:
Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

24 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
3.63	43.00	548	0.415160
3.63	58.00	335	

Reviewer: bowieh, 24-Oct-2019 09:06:46

Audit Action: Marked Compound Undetected

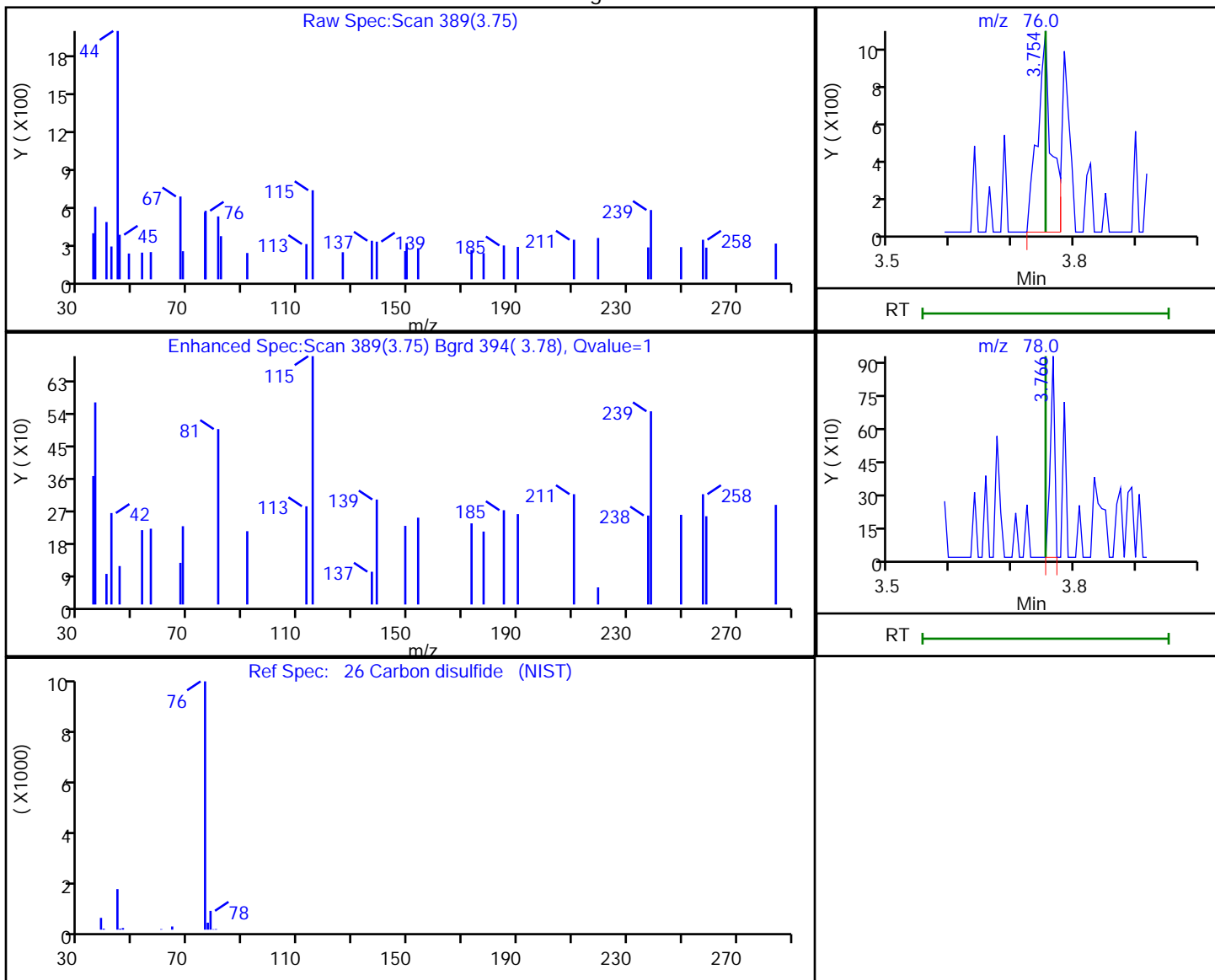
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Injection Date: 23-Oct-2019 12:13:30 Instrument ID: CHHP6
 Lims ID: MB
 Client ID:
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

26 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
3.75	76.00	1664	0.273858
3.77	78.00	458	

Reviewer: bowieh, 24-Oct-2019 09:06:53

Audit Action: Marked Compound Undetected

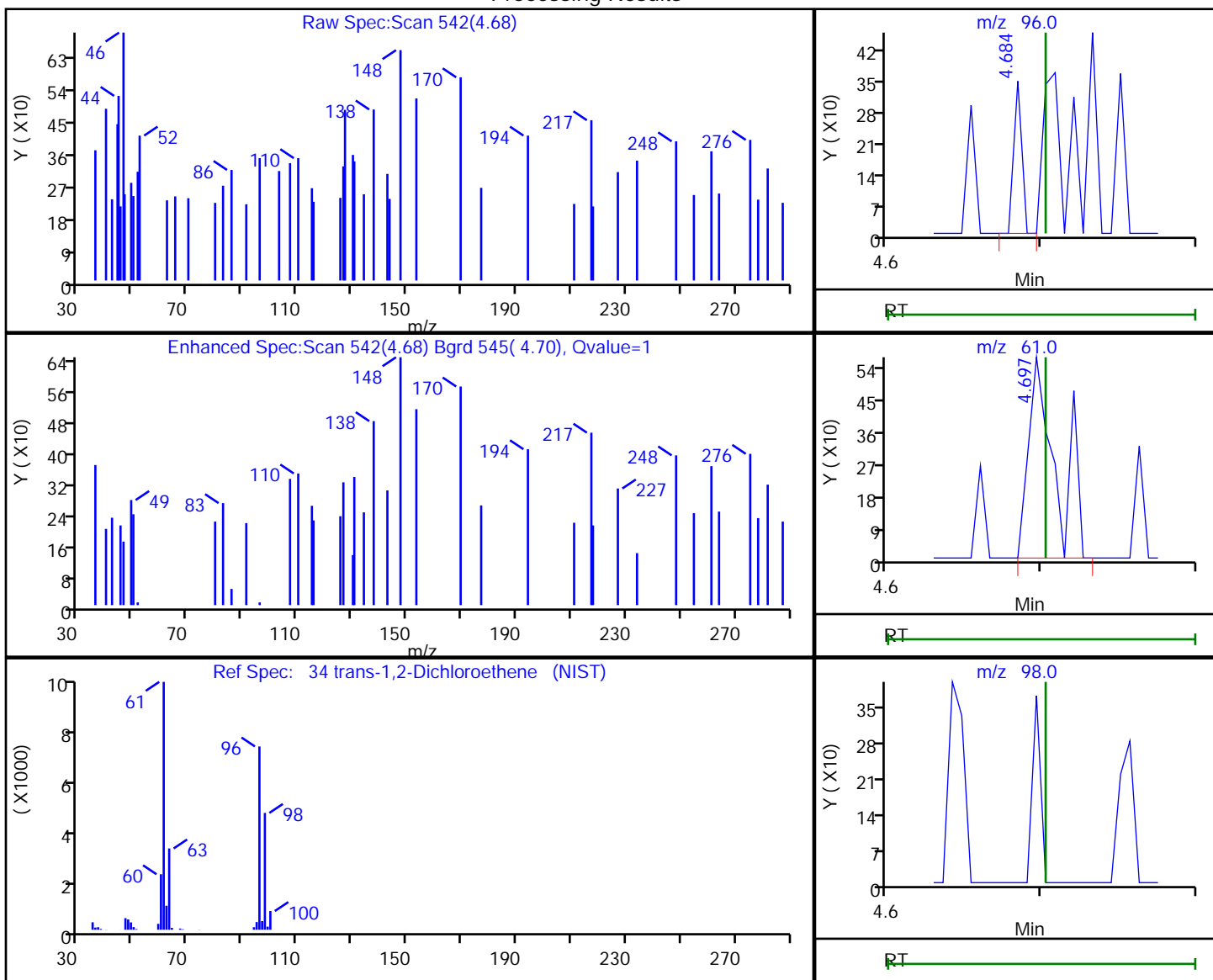
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\6102306A.D
 Injection Date: 23-Oct-2019 12:13:30 Instrument ID: CHHP6
 Lims ID: MB
 Client ID:
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

34 trans-1,2-Dichloroethene, CAS: 156-60-5

Processing Results



RT	Mass	Response	Amount
4.68	96.00	125	0.046360
4.70	61.00	702	
4.70	98.00	0	

Reviewer: bowieh, 24-Oct-2019 09:07:04

Audit Action: Marked Compound Undetected

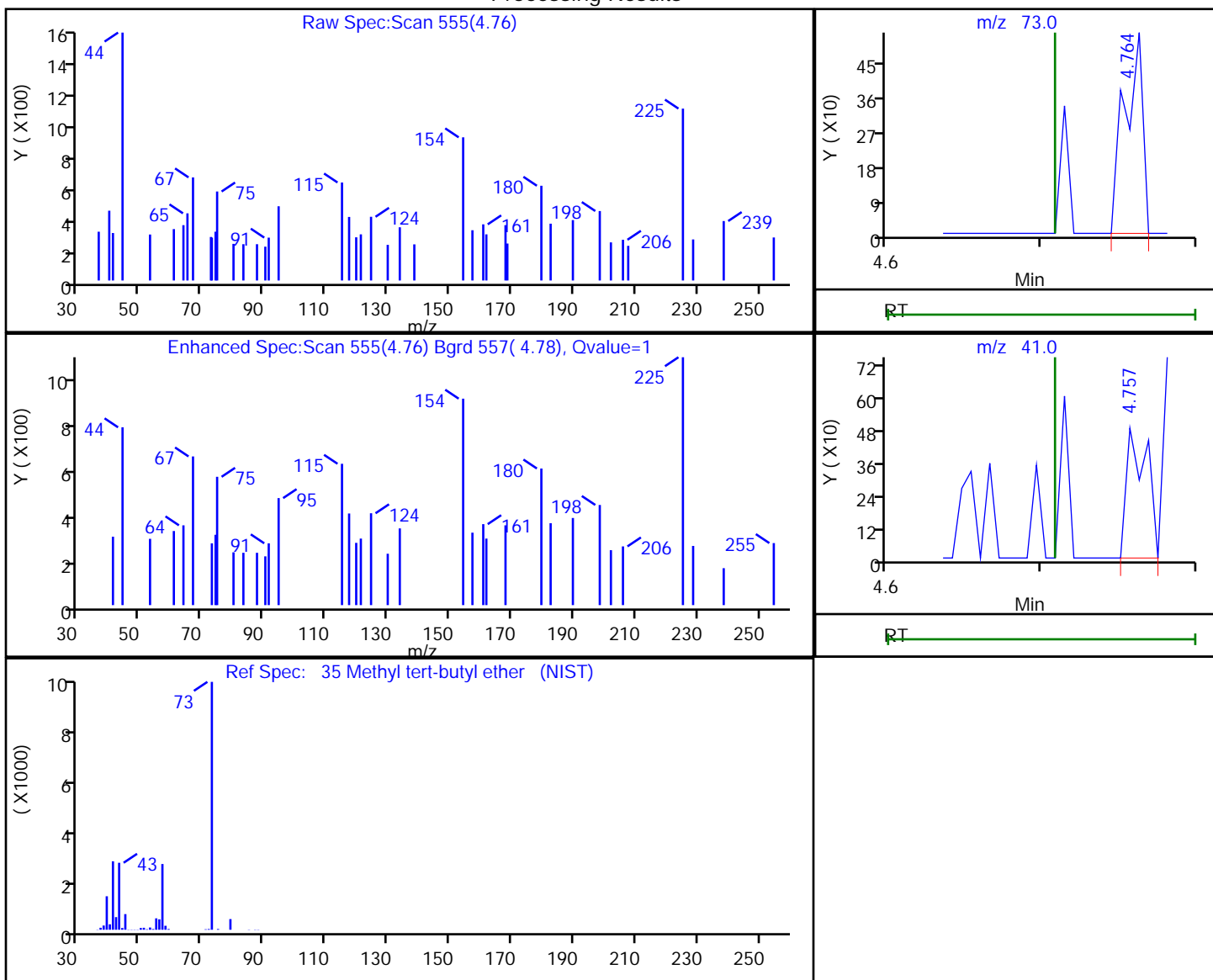
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\6102306A.D
 Injection Date: 23-Oct-2019 12:13:30 Instrument ID: CHHP6
 Lims ID: MB
 Client ID:
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

35 Methyl tert-butyl ether, CAS: 1634-04-4

Processing Results



RT	Mass	Response	Amount
4.76	73.00	428	0.073429
4.76	41.00	440	

Reviewer: bowieh, 24-Oct-2019 09:07:06

Audit Action: Marked Compound Undetected

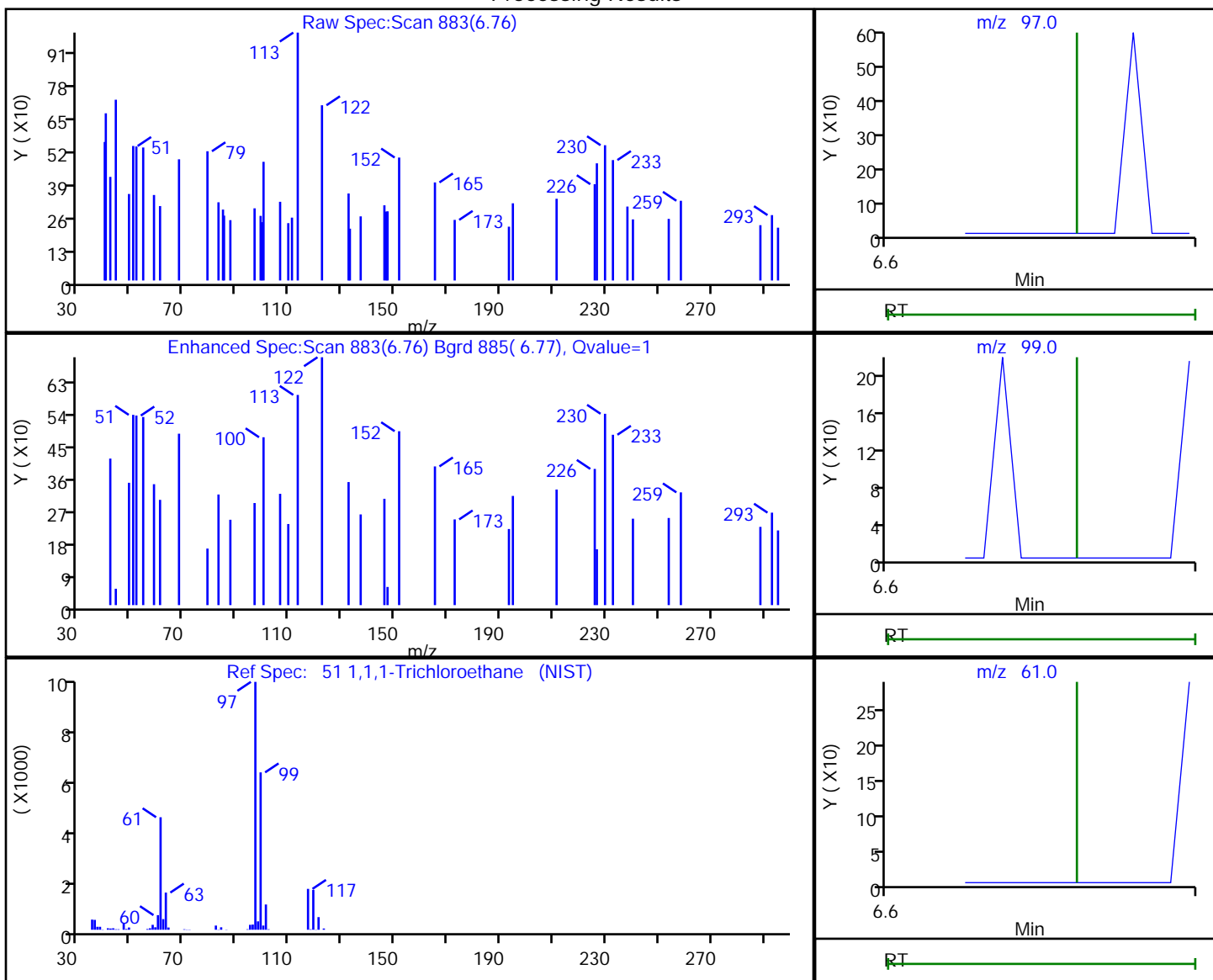
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Injection Date: 23-Oct-2019 12:13:30 Instrument ID: CHHP6
 Lims ID: MB
 Client ID:
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

51 1,1,1-Trichloroethane, CAS: 71-55-6

Processing Results



RT	Mass	Response	Amount
6.76	97.00	105	0.025470
6.76	99.00	404	
6.77	61.00	221	

Reviewer: bowieh, 24-Oct-2019 09:07:34

Audit Action: Marked Compound Undetected

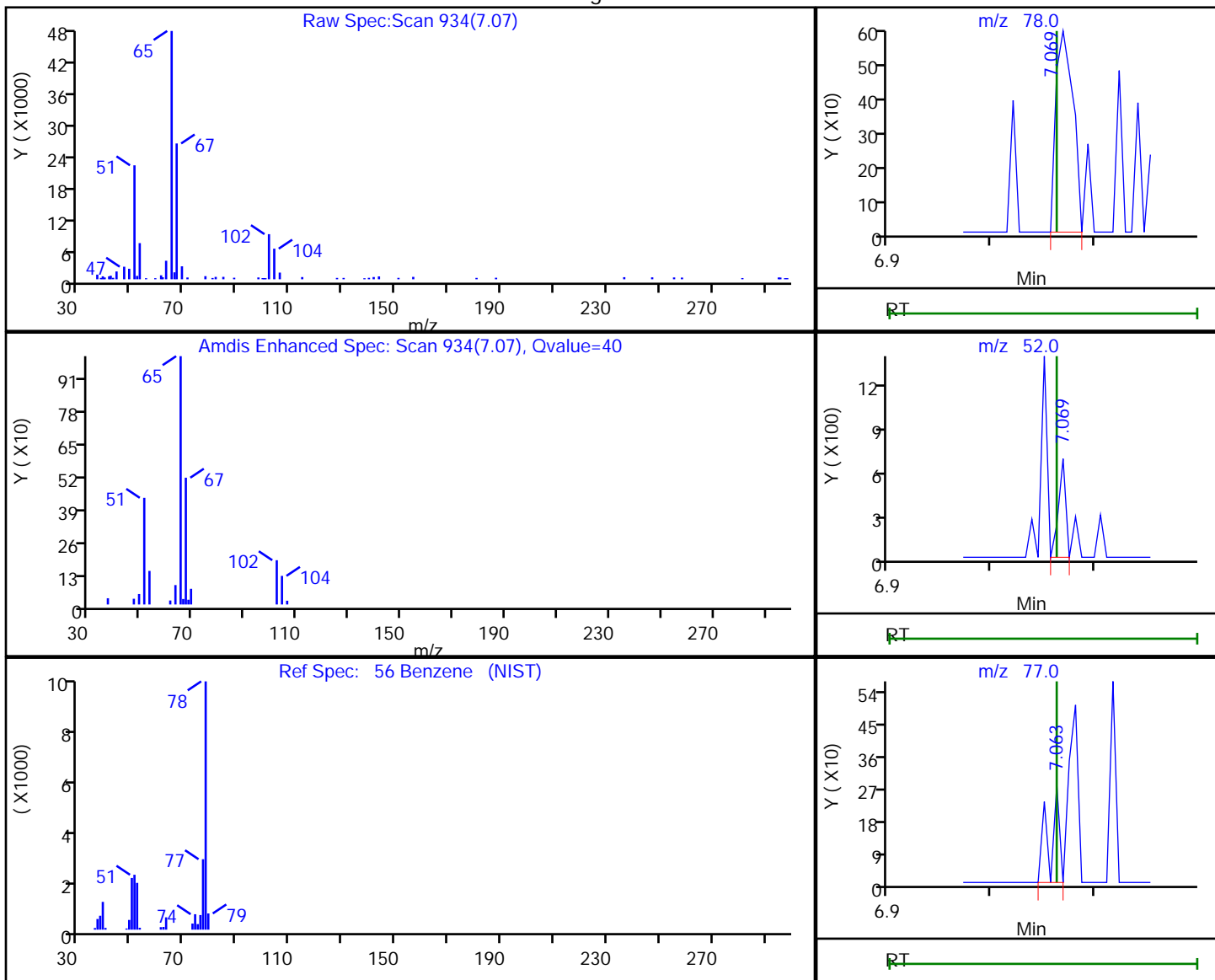
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\6102306A.D
 Injection Date: 23-Oct-2019 12:13:30 Instrument ID: CHHP6
 Lims ID: MB
 Client ID:
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

56 Benzene, CAS: 71-43-2

Processing Results



RT	Mass	Response	Amount
7.07	78.00	697	0.071673
7.07	52.00	315	
7.06	77.00	184	

Reviewer: bowieh, 24-Oct-2019 09:07:38

Audit Action: Marked Compound Undetected

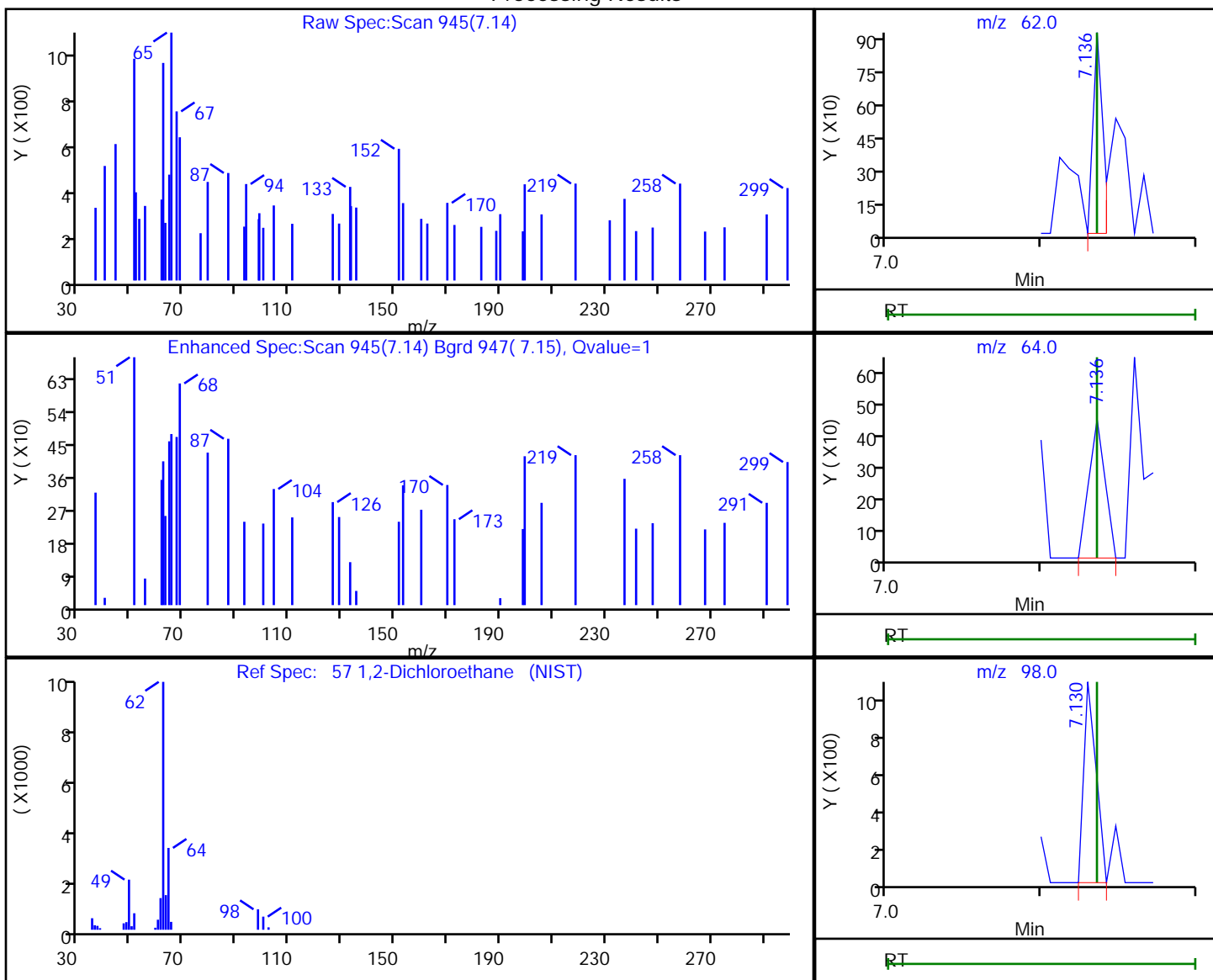
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\6102306A.D
 Injection Date: 23-Oct-2019 12:13:30 Instrument ID: CHHP6
 Lims ID: MB
 Client ID:
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

57 1,2-Dichloroethane, CAS: 107-06-2

Processing Results



RT	Mass	Response	Amount
7.14	62.00	423	0.096000
7.14	64.00	328	
7.13	98.00	588	

Reviewer: bowieh, 24-Oct-2019 09:07:39

Audit Action: Marked Compound Undetected

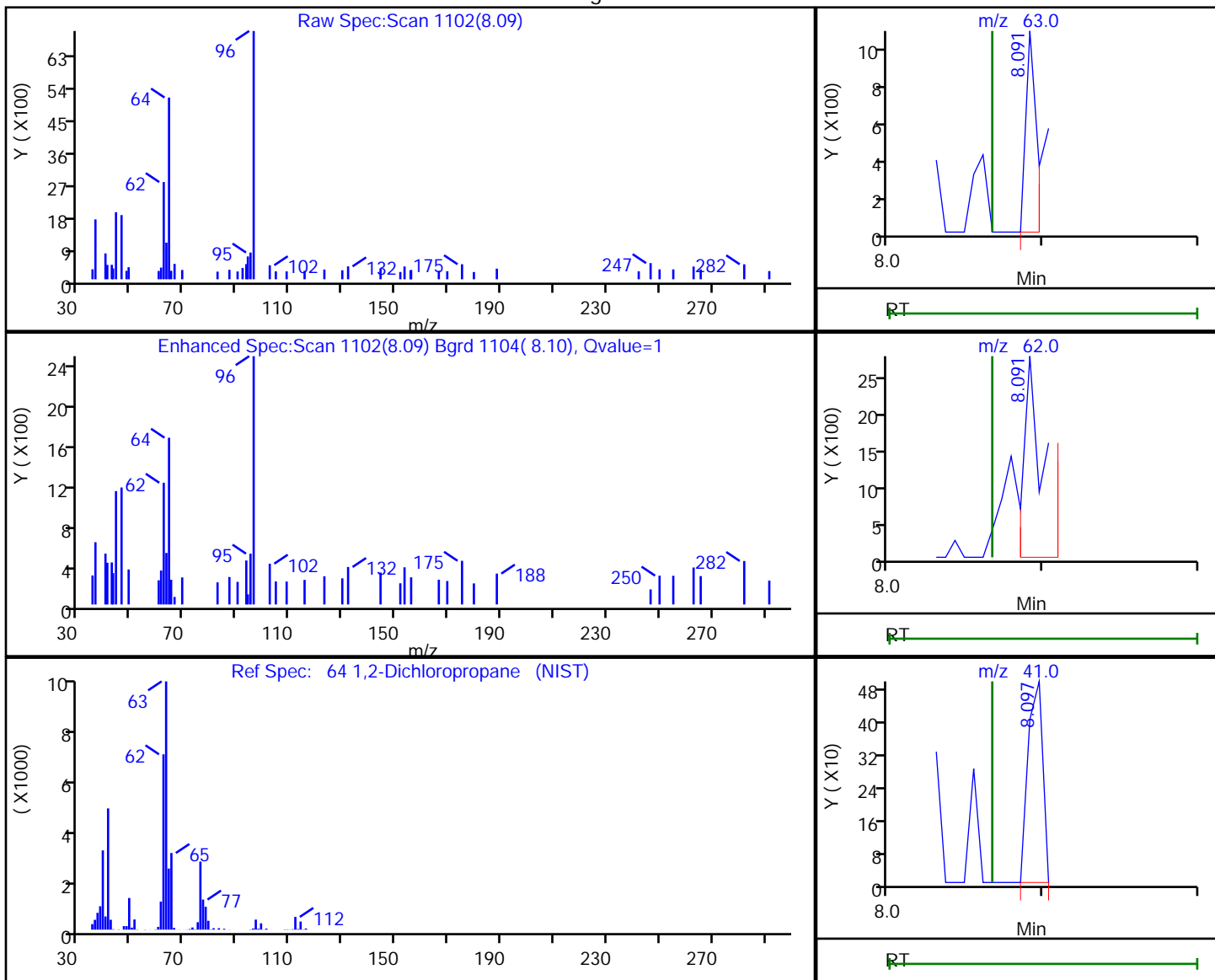
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\6102306A.D
 Injection Date: 23-Oct-2019 12:13:30 Instrument ID: CHHP6
 Lims ID: MB
 Client ID:
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

64 1,2-Dichloropropane, CAS: 78-87-5

Processing Results



RT	Mass	Response	Amount
8.09	63.00	499	0.215017
8.09	62.00	2129	
8.10	41.00	329	

Reviewer: bowieh, 24-Oct-2019 09:07:47

Audit Action: Marked Compound Undetected

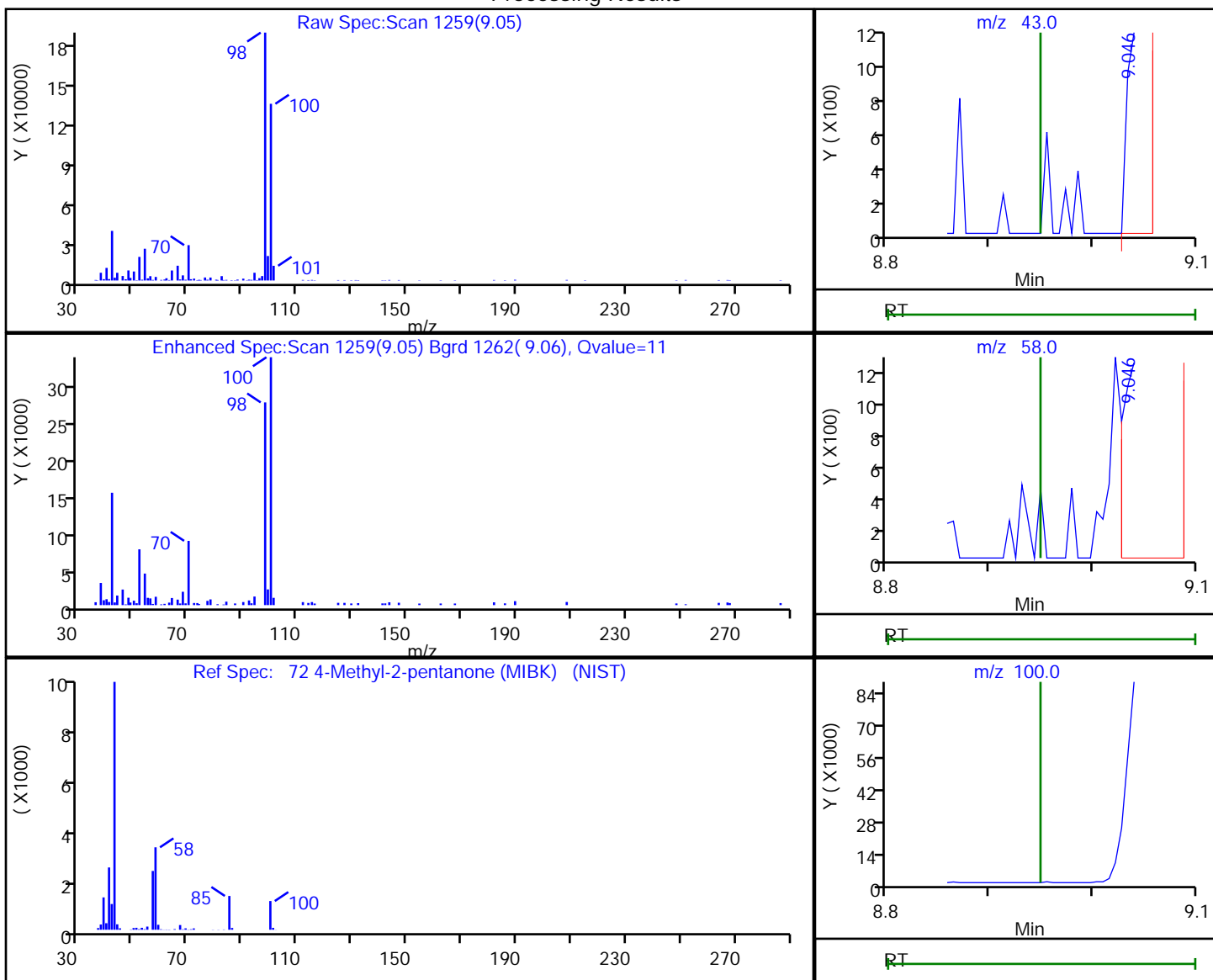
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\6102306A.D
 Injection Date: 23-Oct-2019 12:13:30 Instrument ID: CHHP6
 Lims ID: MB
 Client ID:
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

72 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
9.05	43.00	1988	1.119419
9.05	58.00	5195	
9.05	100.00	300107	

Reviewer: bowieh, 24-Oct-2019 09:07:55

Audit Action: Marked Compound Undetected

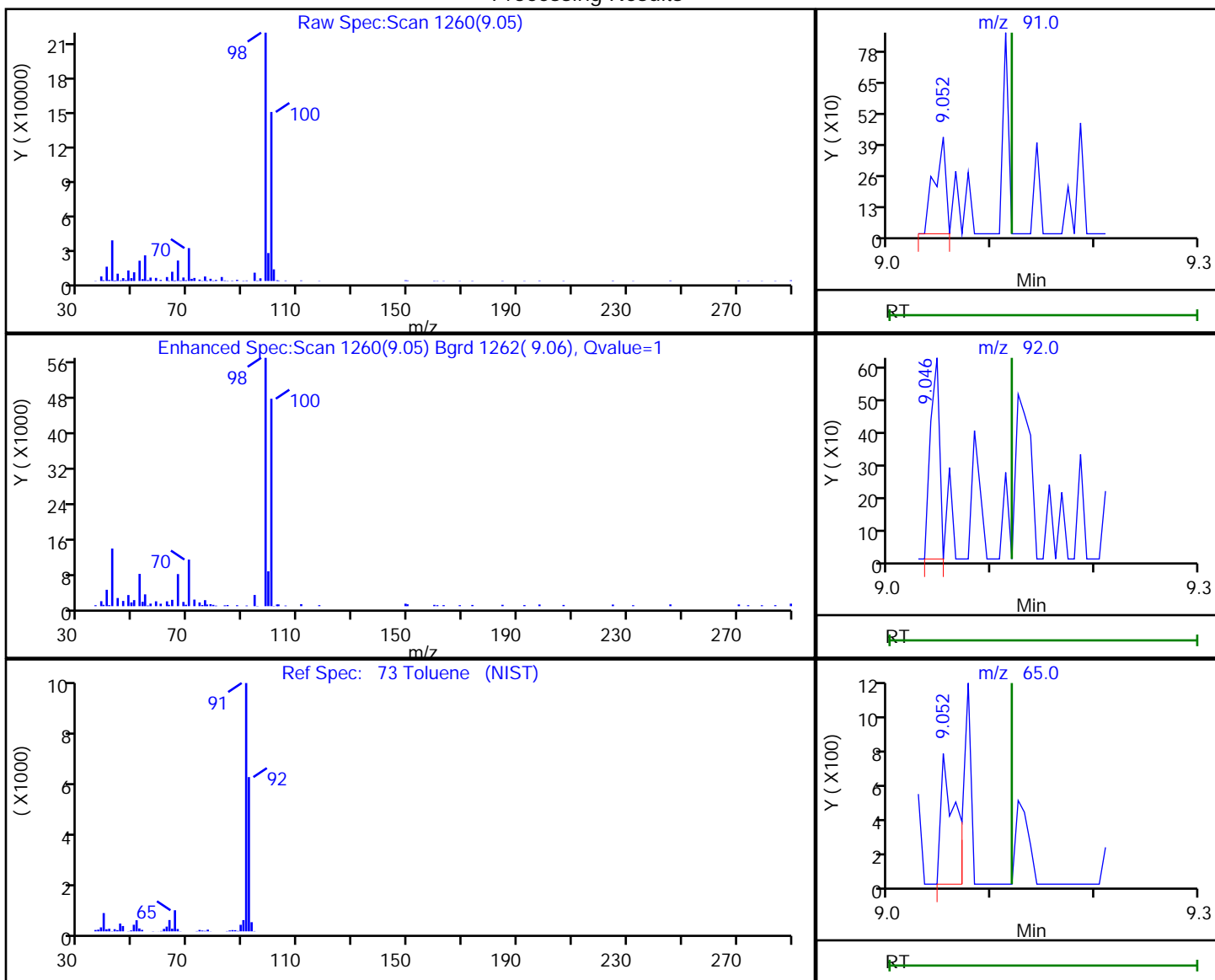
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\6102306A.D
 Injection Date: 23-Oct-2019 12:13:30 Instrument ID: CHHP6
 Lims ID: MB
 Client ID:
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

73 Toluene, CAS: 108-88-3

Processing Results



RT	Mass	Response	Amount
9.05	91.00	311	0.032999
9.05	92.00	384	
9.05	65.00	724	

Reviewer: bowieh, 24-Oct-2019 09:07:57

Audit Action: Marked Compound Undetected

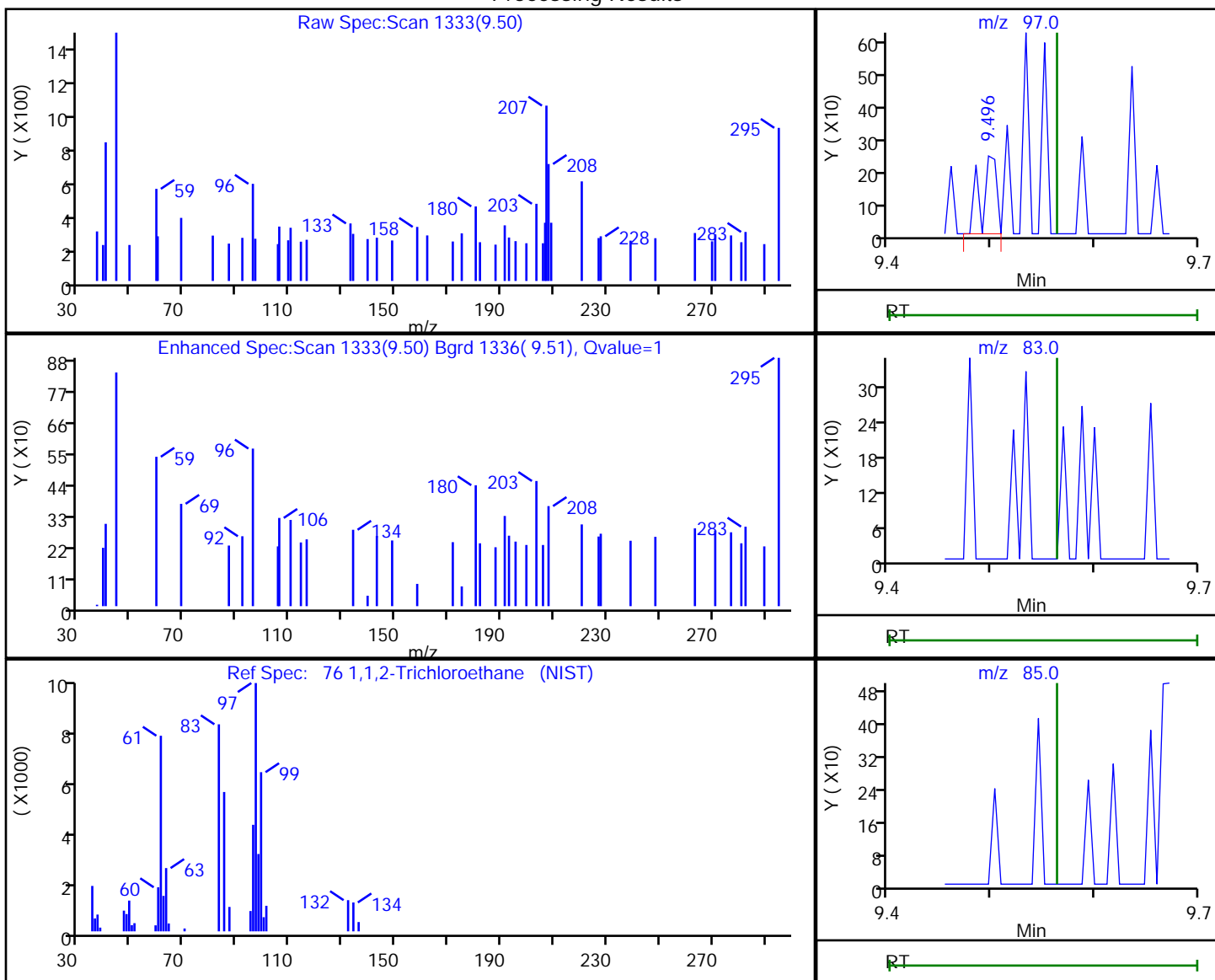
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\6102306A.D
 Injection Date: 23-Oct-2019 12:13:30 Instrument ID: CHHP6
 Lims ID: MB
 Client ID:
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

76 1,1,2-Trichloroethane, CAS: 79-00-5

Processing Results



RT	Mass	Response	Amount
9.50	97.00	252	0.144903
9.56	83.00	0	
9.56	85.00	0	

Reviewer: bowieh, 24-Oct-2019 09:08:03

Audit Action: Marked Compound Undetected

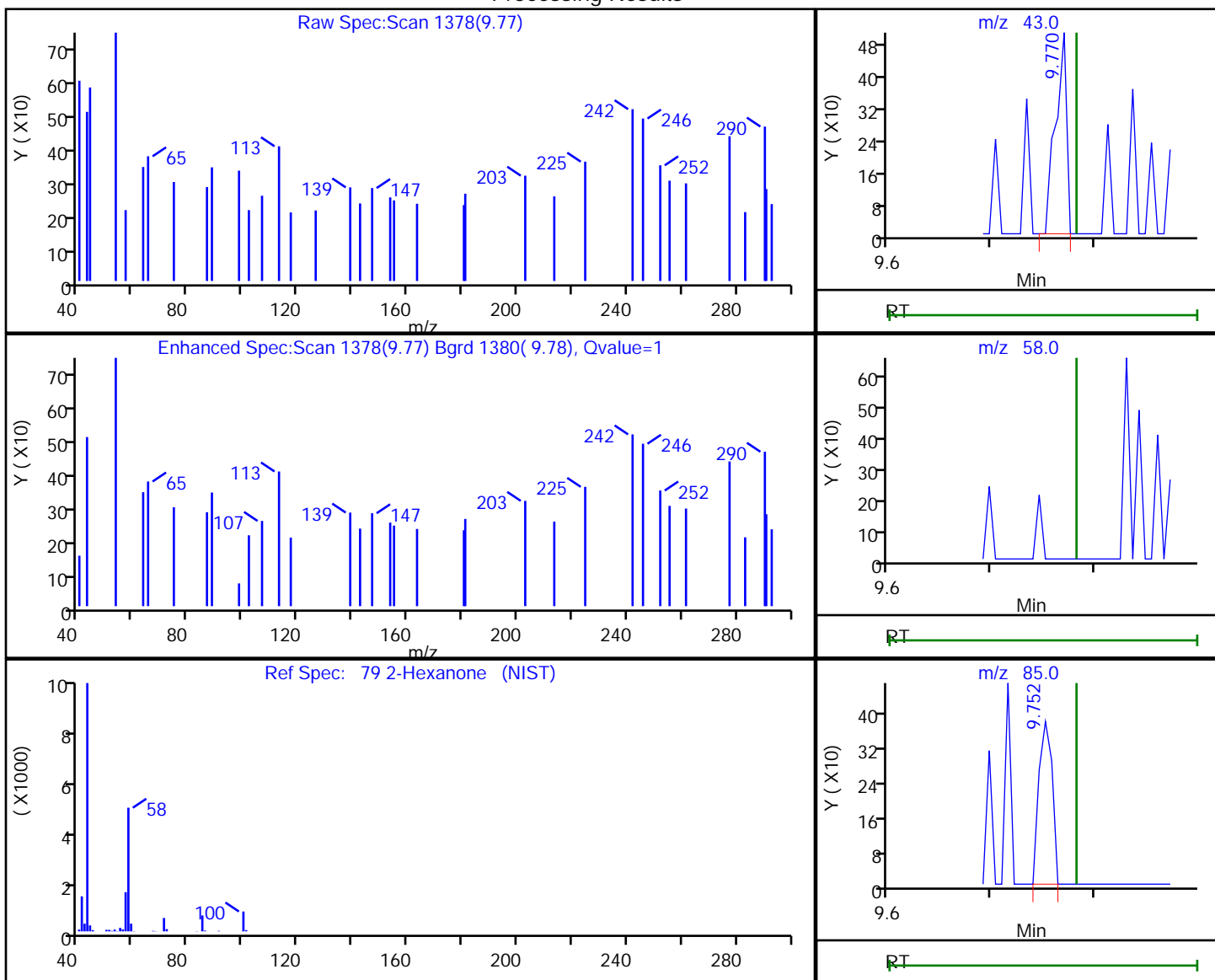
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\6102306A.D
 Injection Date: 23-Oct-2019 12:13:30 Instrument ID: CHHP6
 Lims ID: MB
 Client ID:
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

79 2-Hexanone, CAS: 591-78-6

Processing Results



RT	Mass	Response	Amount
9.77	43.00	379	0.259762
9.78	58.00	0	
9.75	85.00	342	

Reviewer: bowieh, 24-Oct-2019 09:08:05

Audit Action: Marked Compound Undetected

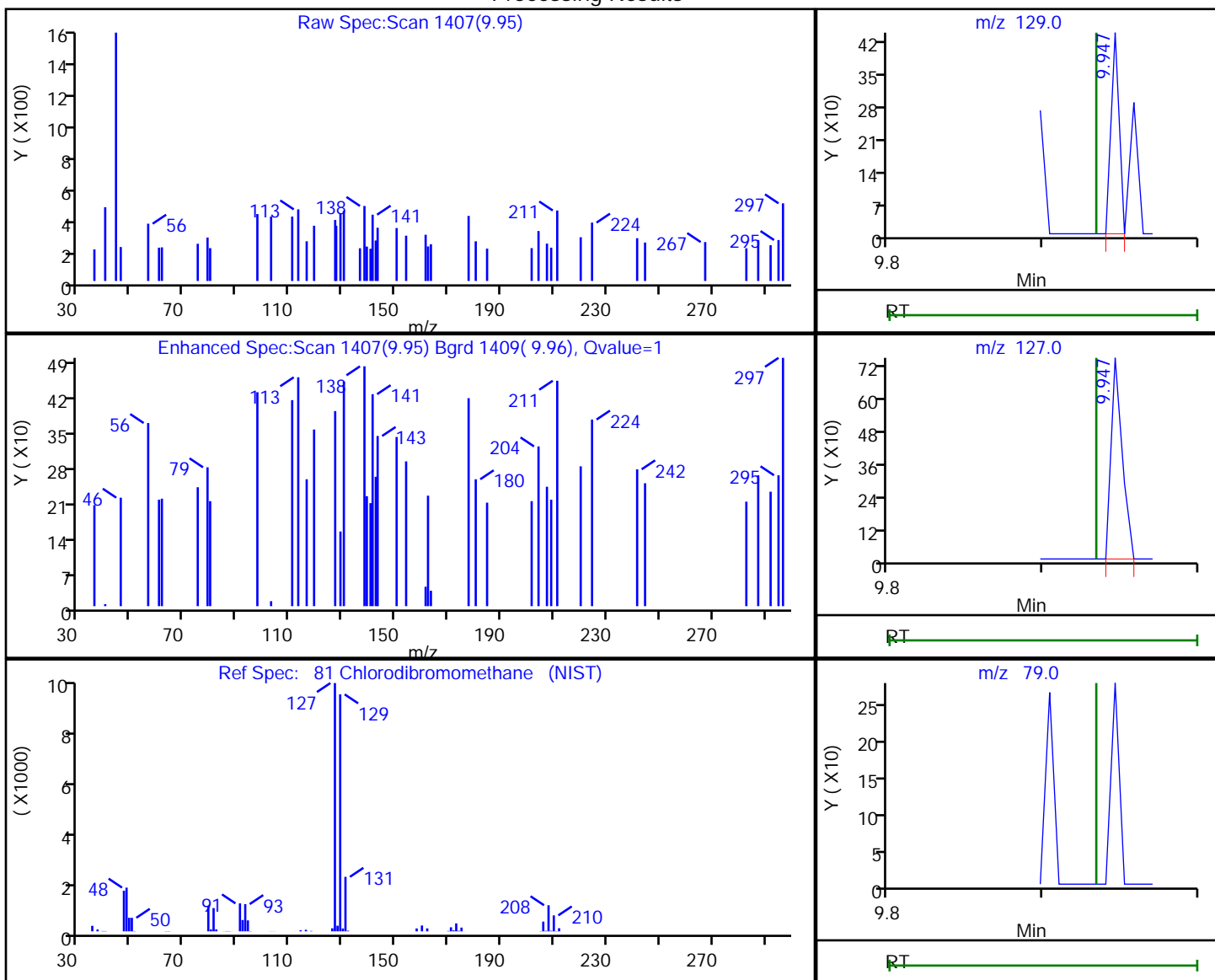
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\6102306A.D
 Injection Date: 23-Oct-2019 12:13:30 Instrument ID: CHHP6
 Lims ID: MB
 Client ID:
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

81 Chlorodibromomethane, CAS: 124-48-1

Processing Results



RT	Mass	Response	Amount
9.95	129.00	158	0.093101
9.95	127.00	375	
9.93	79.00	0	

Reviewer: bowieh, 24-Oct-2019 09:08:06

Audit Action: Marked Compound Undetected

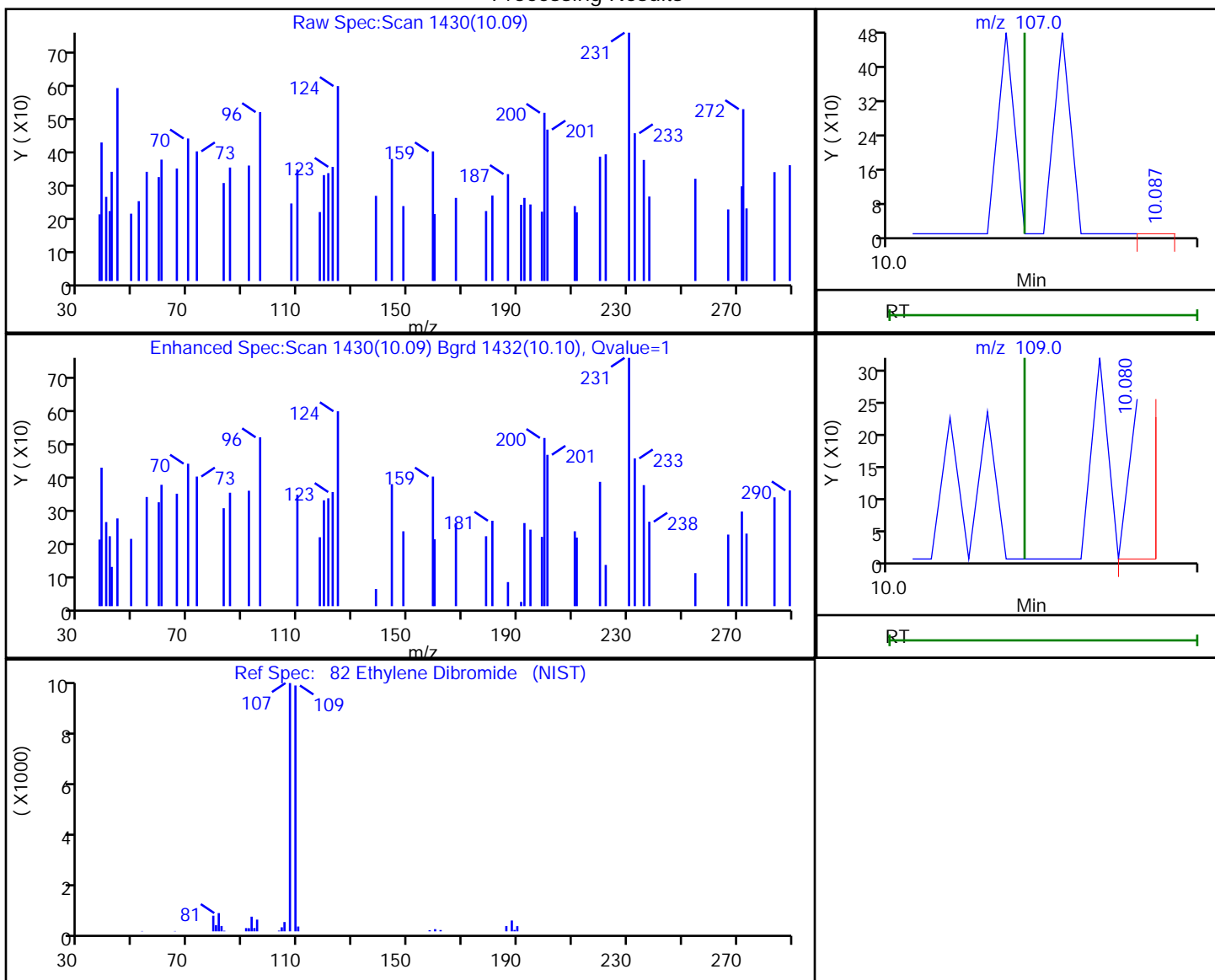
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\6102306A.D
 Injection Date: 23-Oct-2019 12:13:30 Instrument ID: CHHP6
 Lims ID: MB
 Client ID:
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

82 Ethylene Dibromide, CAS: 106-93-4

Processing Results



RT	Mass	Response	Amount
10.09	107.00	86	0.048641
10.08	109.00	92	

Reviewer: bowieh, 24-Oct-2019 09:08:07

Audit Action: Marked Compound Undetected

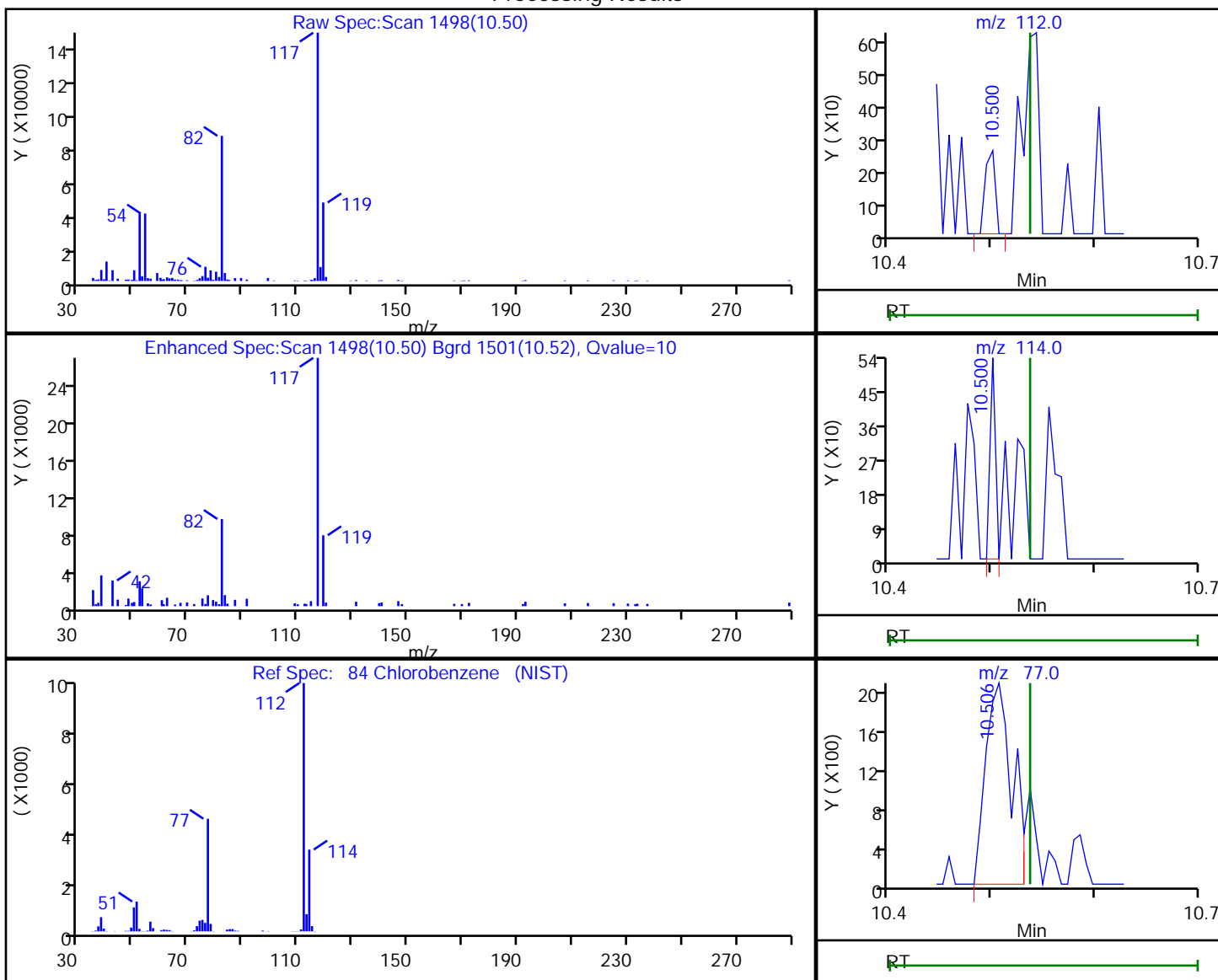
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\6102306A.D
 Injection Date: 23-Oct-2019 12:13:30 Instrument ID: CHHP6
 Lims ID: MB
 Client ID:
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
 Column: DB-624 (0.18 mm) Detector: MS SCAN

84 Chlorobenzene, CAS: 108-90-7

Processing Results



RT	Mass	Response	Amount
10.50	112.00	173	0.027651
10.50	114.00	196	
10.51	77.00	3647	

Reviewer: bowieh, 24-Oct-2019 09:08:08

Audit Action: Marked Compound Undetected

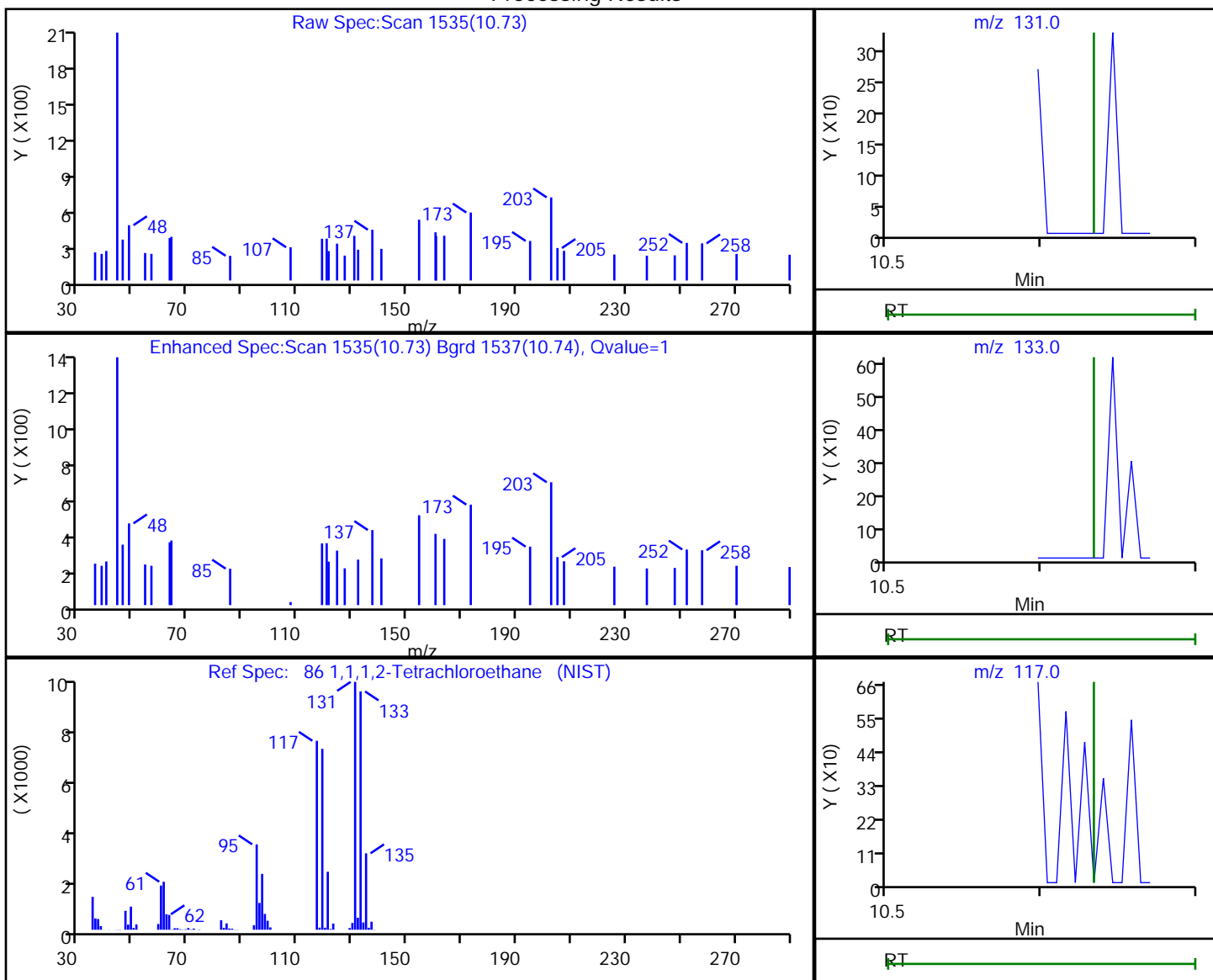
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\6102306A.D
Injection Date: 23-Oct-2019 12:13:30 Instrument ID: CHHP6
Lims ID: MB
Client ID:
Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

86 1,1,1,2-Tetrachloroethane, CAS: 630-20-6

Processing Results



RT	Mass	Response	Amount
10.73	131.00	134	0.066899
10.72	133.00	77	
10.63	117.00	0	

Reviewer: bowieh, 24-Oct-2019 09:08:10

Audit Action: Marked Compound Undetected

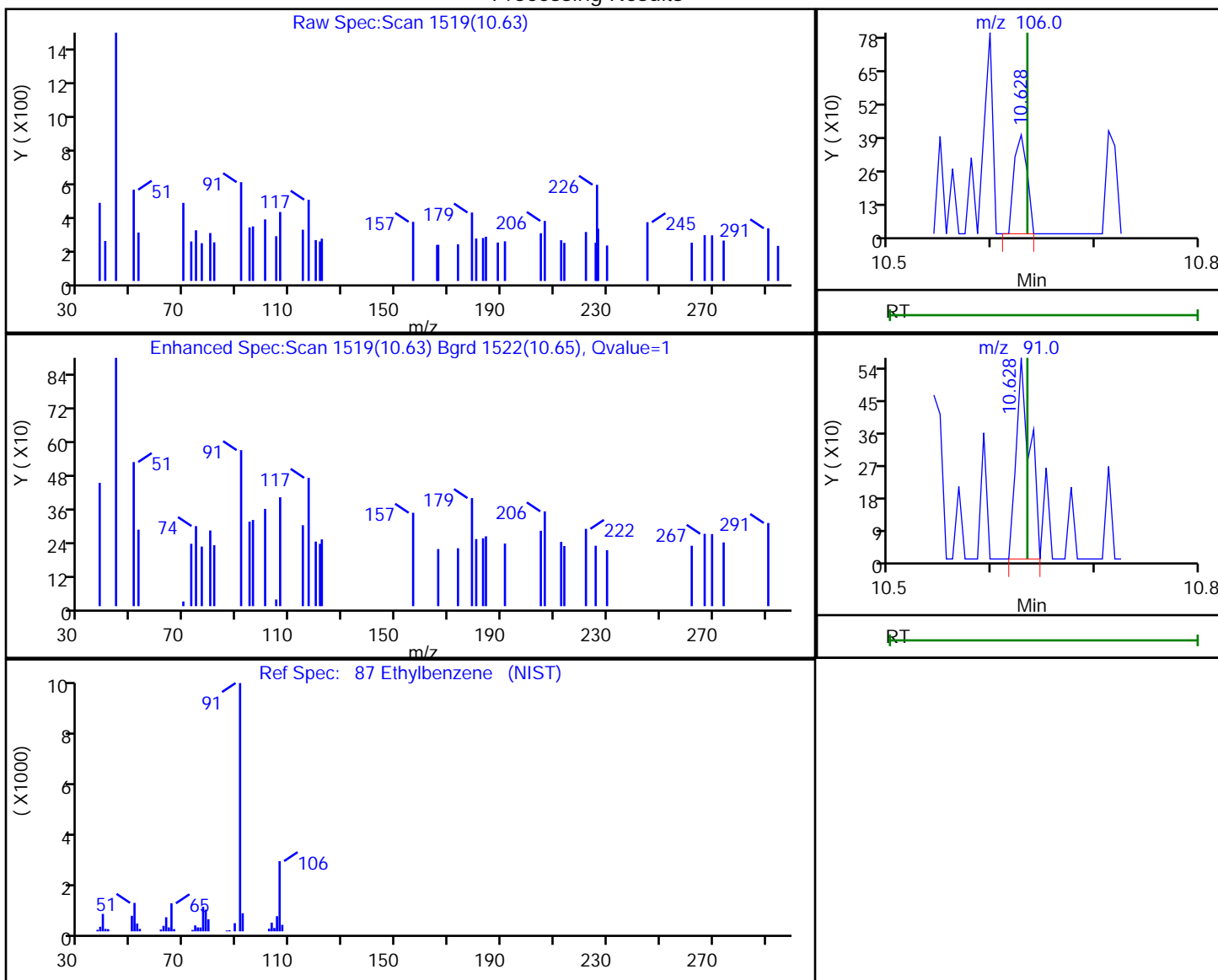
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\6102306A.D
Injection Date: 23-Oct-2019 12:13:30 Instrument ID: CHHP6
Lims ID: MB
Client ID:
Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

87 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
10.63	106.00	343	0.093534
10.63	91.00	526	

Reviewer: bowieh, 24-Oct-2019 09:08:11

Audit Action: Marked Compound Undetected

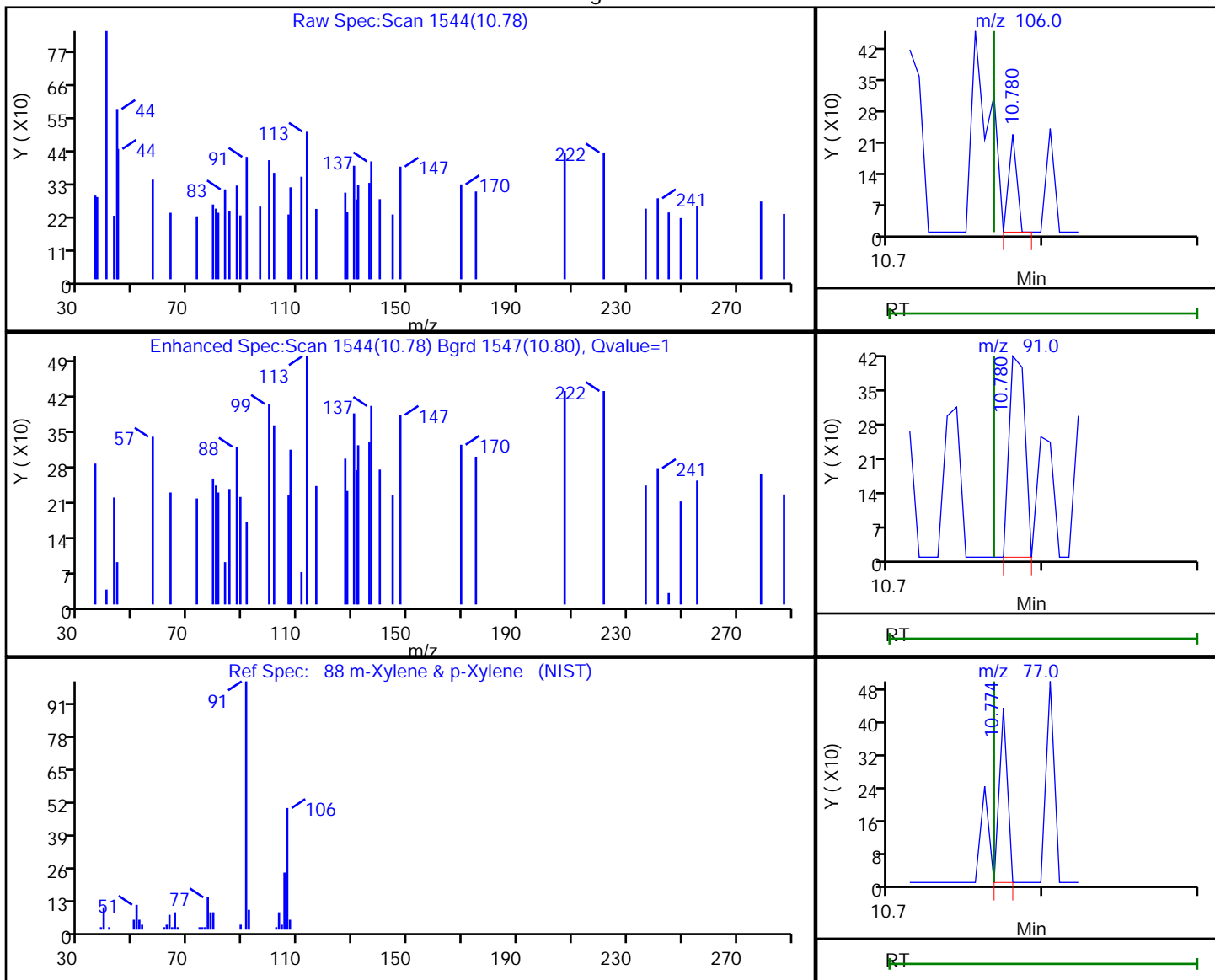
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\6102306A.D
Injection Date: 23-Oct-2019 12:13:30 Instrument ID: CHHP6
Lims ID: MB
Client ID:
Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

88 m-Xylene & p-Xylene, CAS: 179601-23-1

Processing Results



RT	Mass	Response	Amount
10.78	106.00	80	0.017864
10.78	91.00	294	
10.77	77.00	158	

Reviewer: bowieh, 24-Oct-2019 09:08:12

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\6102306A.D

Injection Date: 23-Oct-2019 12:13:30

Instrument ID: CHHP6

Lims ID: MB

Client ID:

Operator ID: 433269

ALS Bottle#: 7

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: MSVOA_LL_CHHP6

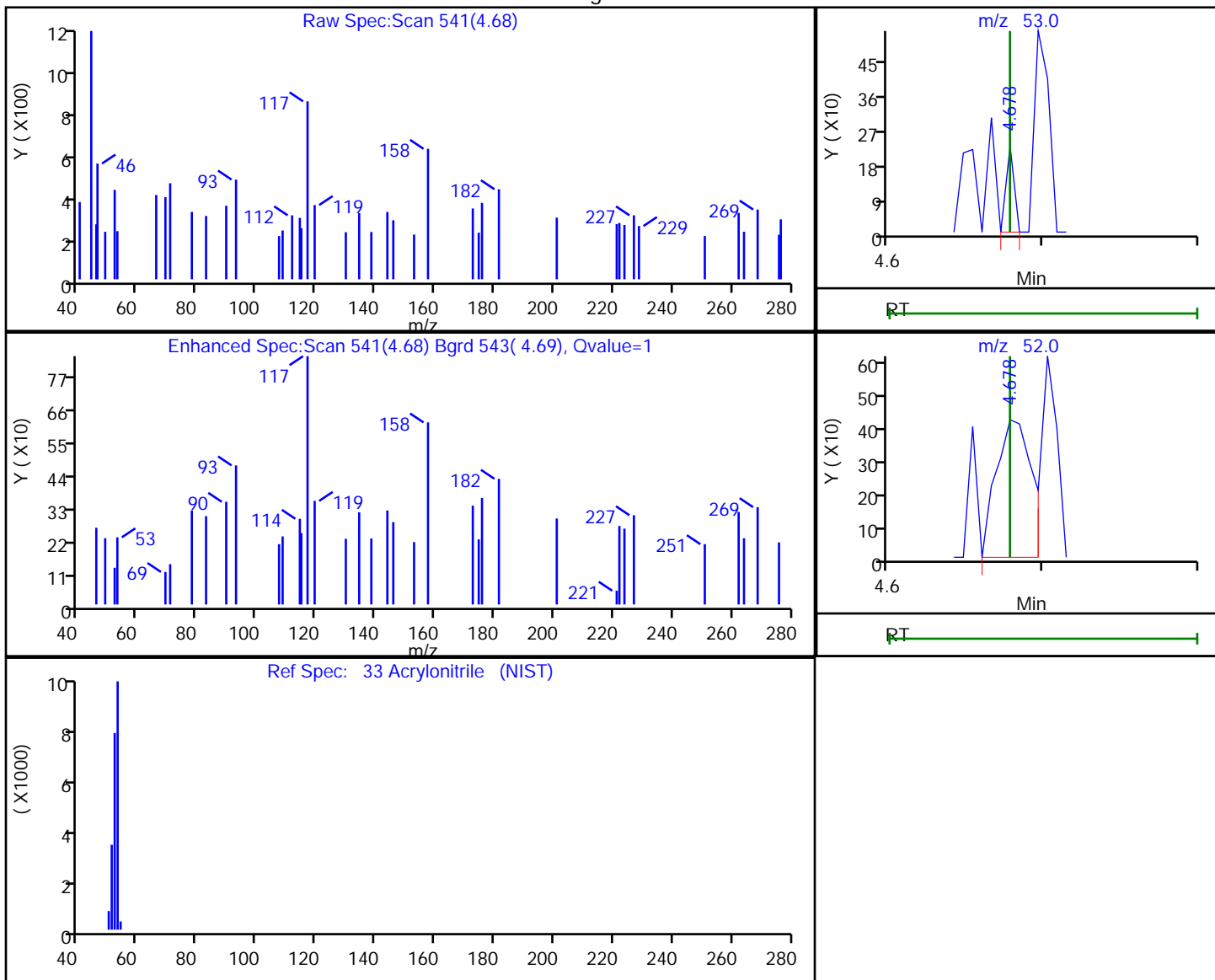
Limit Group: VOA 8260C_D ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

33 Acrylonitrile, CAS: 107-13-1

Processing Results



RT	Mass	Response	Amount
4.68	53.00	82	0.091665
4.68	52.00	672	

Reviewer: bowieh, 24-Oct-2019 09:07:02

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 180-295448/4
 Matrix: Water Lab File ID: 6101904A.D
 Analysis Method: EPA 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 10/19/2019 14:25
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 295448 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	9.58		1.0	0.90
75-01-4	Vinyl chloride	9.53		1.0	0.88
74-83-9	Bromomethane	9.17		1.0	0.89
75-00-3	Chloroethane	9.63		1.0	0.90
75-35-4	1,1-Dichloroethene	10.8		1.0	0.55
67-64-1	Acetone	21.9		5.0	3.4
75-15-0	Carbon disulfide	9.89		1.0	0.88
75-09-2	Methylene Chloride	9.65		1.0	0.89
156-60-5	trans-1,2-Dichloroethene	10.4		1.0	0.67
1634-04-4	Methyl tert-butyl ether	10.0		1.0	0.59
75-34-3	1,1-Dichloroethane	9.73		1.0	0.63
156-59-2	cis-1,2-Dichloroethene	9.89		1.0	0.71
74-97-5	Bromochloromethane	10.1		1.0	0.63
78-93-3	2-Butanone (MEK)	21.7		5.0	2.6
67-66-3	Chloroform	9.67		1.0	0.60
71-55-6	1,1,1-Trichloroethane	10.1		1.0	0.60
56-23-5	Carbon tetrachloride	10.4		1.0	0.88
71-43-2	Benzene	10.1		1.0	0.60
107-06-2	1,2-Dichloroethane	9.83		1.0	0.57
79-01-6	Trichloroethene	9.85		1.0	0.69
78-87-5	1,2-Dichloropropane	10.3		1.0	0.66
75-27-4	Bromodichloromethane	9.59		1.0	0.64
10061-01-5	cis-1,3-Dichloropropene	10.4		1.0	0.59
108-10-1	4-Methyl-2-pentanone (MIBK)	22.8		5.0	3.1
108-88-3	Toluene	11.0		1.0	0.46
10061-02-6	trans-1,3-Dichloropropene	10.7		1.0	0.58
79-00-5	1,1,2-Trichloroethane	11.1		1.0	0.45
127-18-4	Tetrachloroethene	10.9		1.0	0.47
591-78-6	2-Hexanone	21.7		5.0	3.3
124-48-1	Dibromochloromethane	10.9		1.0	0.84
106-93-4	1,2-Dibromoethane (EDB)	10.3		1.0	0.50
108-90-7	Chlorobenzene	11.1		1.0	0.50
630-20-6	1,1,1,2-Tetrachloroethane	10.8		1.0	0.57
100-41-4	Ethylbenzene	10.4		1.0	0.51
1330-20-7	Xylenes, Total	21.3		2.0	0.89
100-42-5	Styrene	11.2		1.0	0.47

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 180-295448/4
 Matrix: Water Lab File ID: 6101904A.D
 Analysis Method: EPA 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 10/19/2019 14:25
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 295448 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	9.62		1.0	0.98
79-34-5	1,1,2,2-Tetrachloroethane	10.9		1.0	0.60
107-13-1	Acrylonitrile	106		20	7.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		70-150
2037-26-5	Toluene-d8 (Surr)	110		78-128
460-00-4	4-Bromofluorobenzene (Surr)	113		64-123
1868-53-7	Dibromofluoromethane (Surr)	96		75-147

Eurofins TestAmerica, Pittsburgh
Target Compound Quantitation Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101904A.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 19-Oct-2019 14:25:30 ALS Bottle#: 4 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-0029191-004
 Misc. Info.: lcs
 Operator ID: 433269 Instrument ID: CHHP6
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C_D ICAL
 Last Update: 22-Oct-2019 09:13:31 Calib Date: 18-Oct-2019 18:47:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101817.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX0302

First Level Reviewer: bowieh

Date: 22-Oct-2019 09:13:42

Compound	Sig	RT (min.)	Exp RT (min.)	Diff RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.424	4.429	-0.005	96	183927	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.405	7.410	-0.005	96	546442	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.507	10.513	-0.006	88	128292	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.850	12.855	-0.005	97	191195	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.687	6.686	0.001	90	123533	50.0	48.1	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	7.058	7.057	0.001	66	203280	50.0	51.8	
\$ 7 Toluene-d8 (Surr)	98	9.054	9.053	0.001	94	514171	50.0	55.1	
\$ 8 4-Bromofluorobenzene (Surr	95	11.694	11.693	0.001	0	218256	50.0	56.6	
11 Dichlorodifluoromethane	85	1.668	1.661	0.007	99	229870	50.0	41.5	
12 Chloromethane	50	1.887	1.886	0.001	99	221266	50.0	47.9	
13 Vinyl chloride	62	2.009	2.008	0.001	65	186733	50.0	47.6	
14 Butadiene	39	2.015	2.020	-0.005	96	216234	50.0	48.5	
15 Bromomethane	94	2.331	2.355	-0.024	92	75890	50.0	45.9	
16 Chloroethane	64	2.477	2.495	-0.018	94	92280	50.0	48.2	
17 Dichlorofluoromethane	67	2.775	2.775	0.000	97	272068	50.0	49.7	
18 Trichlorofluoromethane	101	2.788	2.793	-0.005	92	298013	50.0	47.6	
20 Ethyl ether	59	3.165	3.164	0.001	96	113908	50.0	46.9	
22 1,1-Dichloroethene	96	3.469	3.468	0.001	91	141766	50.0	54.2	
23 1,1,2-Trichloro-1,2,2-trif	101	3.560	3.541	0.019	91	158230	50.0	49.5	
24 Acetone	43	3.578	3.584	-0.006	99	168729	100.0	109.4	
25 Iodomethane	142	3.676	3.675	0.001	98	214052	50.0	50.6	
26 Carbon disulfide	76	3.749	3.766	-0.017	100	350983	50.0	49.4	
29 3-Chloro-1-propene	76	4.077	4.082	-0.005	84	71848	50.0	46.7	
30 Methyl acetate	43	4.102	4.101	0.001	99	227529	100.0	110.2	M
31 Methylene Chloride	84	4.284	4.289	-0.005	94	151434	50.0	48.3	
32 2-Methyl-2-propanol	59	4.558	4.557	0.001	93	96347	500.0	506.2	
33 Acrylonitrile	53	4.686	4.679	0.007	99	552594	500.0	528.7	
34 trans-1,2-Dichloroethene	96	4.704	4.709	-0.005	97	163226	50.0	51.8	
35 Methyl tert-butyl ether	73	4.716	4.715	0.001	99	340770	50.0	50.0	
36 Hexane	57	5.111	5.117	-0.006	92	284484	50.0	52.1	
37 1,1-Dichloroethane	63	5.330	5.336	-0.006	96	267783	50.0	48.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
38 Vinyl acetate	43	5.391	5.384	0.007	98	211717	50.0	45.5	
43 cis-1,2-Dichloroethene	96	6.085	6.078	0.007	84	161946	50.0	49.4	
42 2,2-Dichloropropane	97	6.079	6.078	0.001	60	32098	50.0	49.0	
44 2-Butanone (MEK)	43	6.085	6.090	-0.005	19	168004	100.0	108.7	a
48 Chlorobromomethane	128	6.359	6.358	0.001	97	75246	50.0	50.4	
49 Tetrahydrofuran	42	6.365	6.370	-0.005	0	76690	100.0	101.6	
50 Chloroform	83	6.505	6.510	-0.005	97	274725	50.0	48.4	
51 1,1,1-Trichloroethane	97	6.657	6.662	-0.005	97	242672	50.0	50.4	
52 Cyclohexane	56	6.730	6.723	0.007	93	340007	50.0	51.8	
53 Carbon tetrachloride	117	6.833	6.826	0.007	96	212802	50.0	52.2	
54 1,1-Dichloropropene	75	6.845	6.850	-0.005	89	223193	50.0	51.0	
55 Isobutyl alcohol	41	7.058	7.063	-0.005	46	82612	1250.0	1259.9	
56 Benzene	78	7.064	7.063	0.001	97	573911	50.0	50.5	
57 1,2-Dichloroethane	62	7.143	7.142	0.001	97	252898	50.0	49.1	
59 n-Heptane	43	7.417	7.416	0.001	94	272191	50.0	51.2	
61 Trichloroethene	130	7.794	7.793	0.001	95	173050	50.0	49.2	
63 Methylcyclohexane	83	8.019	8.018	0.001	94	300587	50.0	51.1	
64 1,2-Dichloropropane	63	8.068	8.061	0.007	86	139211	50.0	51.3	
65 1,4-Dioxane	88	8.147	8.146	0.001	47	27201	1000.0	1376.0	
67 Dibromomethane	93	8.153	8.152	0.001	95	78597	50.0	48.6	
68 Dichlorobromomethane	83	8.354	8.347	0.007	97	164406	50.0	48.0	
70 2-Chloroethyl vinyl ether	63	8.652	8.645	0.007	93	146920	100.0	76.0	
71 cis-1,3-Dichloropropene	75	8.798	8.797	0.001	90	184537	50.0	52.2	
72 4-Methyl-2-pentanone (MIBK)	43	8.950	8.955	-0.005	95	247989	100.0	114.0	
73 Toluene	91	9.120	9.126	-0.006	98	637040	50.0	55.2	
74 trans-1,3-Dichloropropene	75	9.370	9.369	0.001	98	167256	50.0	53.6	
75 Ethyl methacrylate	69	9.425	9.430	-0.005	89	149576	50.0	54.2	
76 1,1,2-Trichloroethane	97	9.558	9.570	-0.012	96	118366	50.0	55.6	
77 Tetrachloroethene	164	9.631	9.631	0.000	93	132583	50.0	54.6	
78 1,3-Dichloropropane	76	9.723	9.722	0.001	97	201695	50.0	54.3	
79 2-Hexanone	43	9.784	9.789	-0.005	96	193740	100.0	108.4	
81 Chlorodibromomethane	129	9.942	9.935	0.007	90	113331	50.0	54.5	
82 Ethylene Dibromide	107	10.051	10.044	0.007	100	111386	50.0	51.4	
84 Chlorobenzene	112	10.538	10.537	0.001	93	424439	50.0	55.4	
87 Ethylbenzene	106	10.641	10.634	0.007	99	234074	50.0	52.1	
86 1,1,1,2-Tetrachloroethane	131	10.629	10.634	-0.005	88	132892	50.0	54.2	
88 m-Xylene & p-Xylene	106	10.769	10.762	0.007	99	298447	50.0	54.4	
89 o-Xylene	106	11.146	11.145	0.001	97	273467	50.0	51.8	
90 Styrene	104	11.171	11.170	0.001	95	467544	50.0	55.8	
91 Bromoform	173	11.347	11.352	-0.005	93	51693	50.0	48.1	
93 Isopropylbenzene	105	11.517	11.516	0.001	96	791427	50.0	56.8	
95 Bromobenzene	156	11.834	11.833	0.001	97	159542	50.0	52.8	
96 1,1,2,2-Tetrachloroethane	83	11.834	11.833	0.001	69	122978	50.0	54.4	
97 trans-1,4-Dichloro-2-buten	53	11.876	11.875	0.001	59	47320	50.0	50.1	
98 1,2,3-Trichloropropane	110	11.888	11.894	-0.006	90	51646	50.0	51.1	
99 N-Propylbenzene	120	11.931	11.936	-0.005	98	226113	50.0	54.7	
100 2-Chlorotoluene	126	12.022	12.021	0.001	95	173838	50.0	53.0	
102 1,3,5-Trimethylbenzene	105	12.120	12.113	0.007	94	675500	50.0	55.8	
103 4-Chlorotoluene	126	12.150	12.149	0.001	98	189018	50.0	54.9	
104 tert-Butylbenzene	119	12.430	12.429	0.001	93	584852	50.0	55.2	
106 1,2,4-Trimethylbenzene	105	12.491	12.490	0.001	98	653840	50.0	54.9	
108 sec-Butylbenzene	105	12.655	12.654	0.001	96	832087	50.0	56.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
109 1,3-Dichlorobenzene	146	12.777	12.770	0.007	95	310287	50.0	54.7	
110 4-Isopropyltoluene	119	12.807	12.812	-0.005	96	707426	50.0	54.8	
111 1,4-Dichlorobenzene	146	12.880	12.879	0.001	91	317707	50.0	56.4	
116 n-Butylbenzene	91	13.221	13.220	0.001	97	615490	50.0	56.7	
117 1,2-Dichlorobenzene	146	13.239	13.238	0.001	93	280210	50.0	54.5	
118 1,2-Dibromo-3-Chloropropan	75	14.018	14.029	-0.011	77	16834	50.0	49.1	
122 1,2,4-Trichlorobenzene	180	14.845	14.856	-0.011	94	145671	50.0	58.0	
123 Hexachlorobutadiene	225	14.997	14.990	0.007	95	80902	50.0	51.5	
124 Naphthalene	128	15.119	15.118	0.001	97	315393	50.0	58.6	
125 1,2,3-Trichlorobenzene	180	15.356	15.349	0.007	94	120599	50.0	61.3	
S 130 1,2-Dichloroethene, Total	96				0		100.0	101.3	
S 131 Xylenes, Total	106				0		100.0	106.3	
S 154 Total BTEX	1				0		250.0	264.1	
S 132 1,3-Dichloropropene, Total	1				0		100.0	105.8	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

VOACEVEPRI_00054	Amount Added: 2.00	Units: uL	
voaWKetmix1st_00019	Amount Added: 2.00	Units: uL	
VOAVAPRI_00028	Amount Added: 2.00	Units: uL	
VOA8260VOAPRI_00376	Amount Added: 2.00	Units: uL	
voaWI/SHP5_00014	Amount Added: 5.00	Units: uL	Run Reagent

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101904A.D

Injection Date: 19-Oct-2019 14:25:30

Instrument ID: CHHP6

Operator ID: 433269

Lims ID: LCS

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

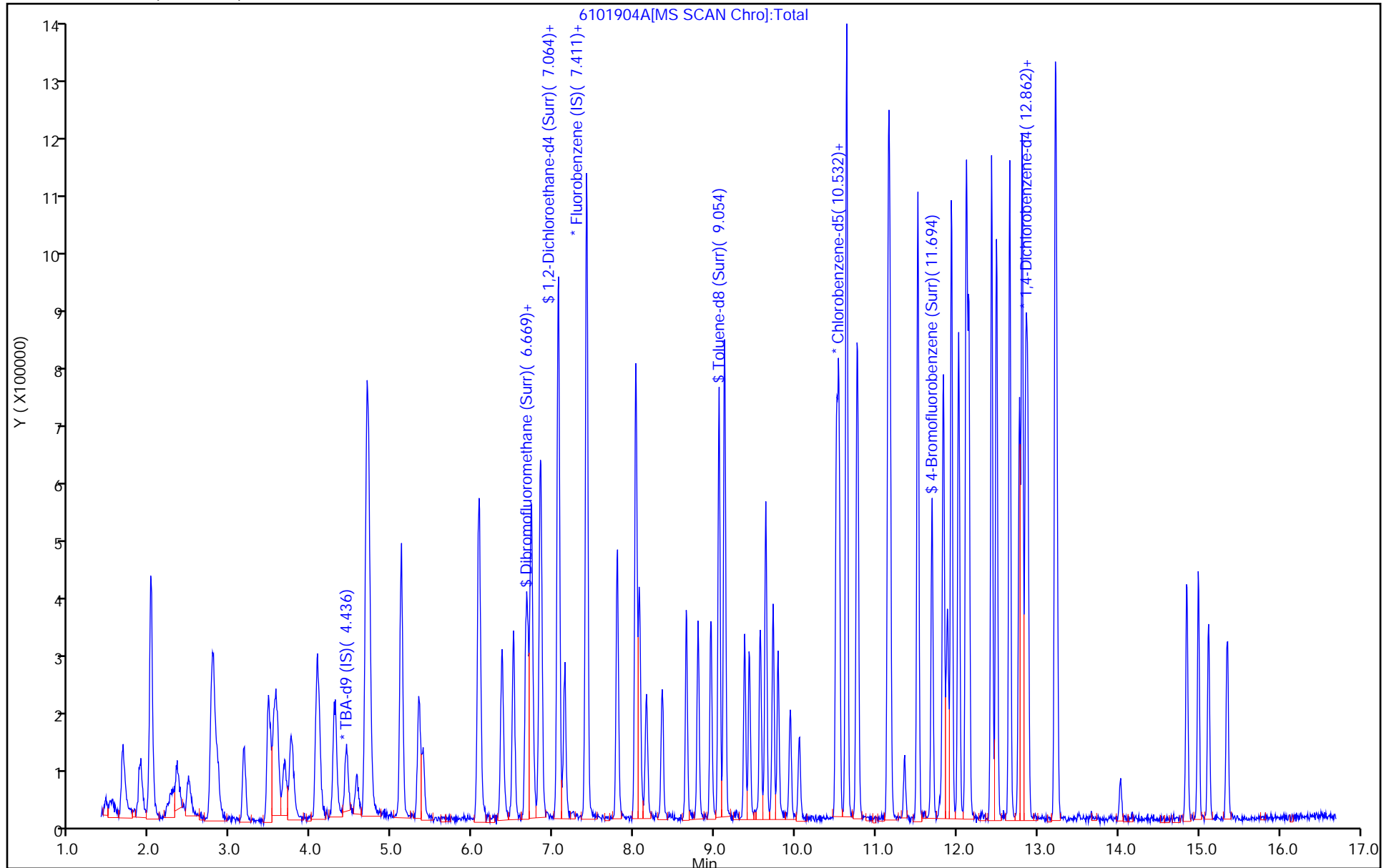
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C_D ICAL

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Pittsburgh
Recovery Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101904A.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 19-Oct-2019 14:25:30 ALS Bottle#: 4 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-0029191-004
 Misc. Info.: lcs
 Operator ID: 433269 Instrument ID: CHHP6
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C_D ICAL
 Last Update: 22-Oct-2019 09:13:31 Calib Date: 18-Oct-2019 18:47:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101817.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX0302

First Level Reviewer: bowieh Date: 22-Oct-2019 09:13:42

Compound	Amount Added	Amount Recovered	% Rec.
\$ 5 Dibromofluoromethane (Surr)	50.0	48.1	96.24
\$ 6 1,2-Dichloroethane-d4 (Surr)	50.0	51.8	103.62
\$ 7 Toluene-d8 (Surr)	50.0	55.1	110.20
\$ 8 4-Bromofluorobenzene (Surr)	50.0	56.6	113.30

Eurofins TestAmerica, Pittsburgh

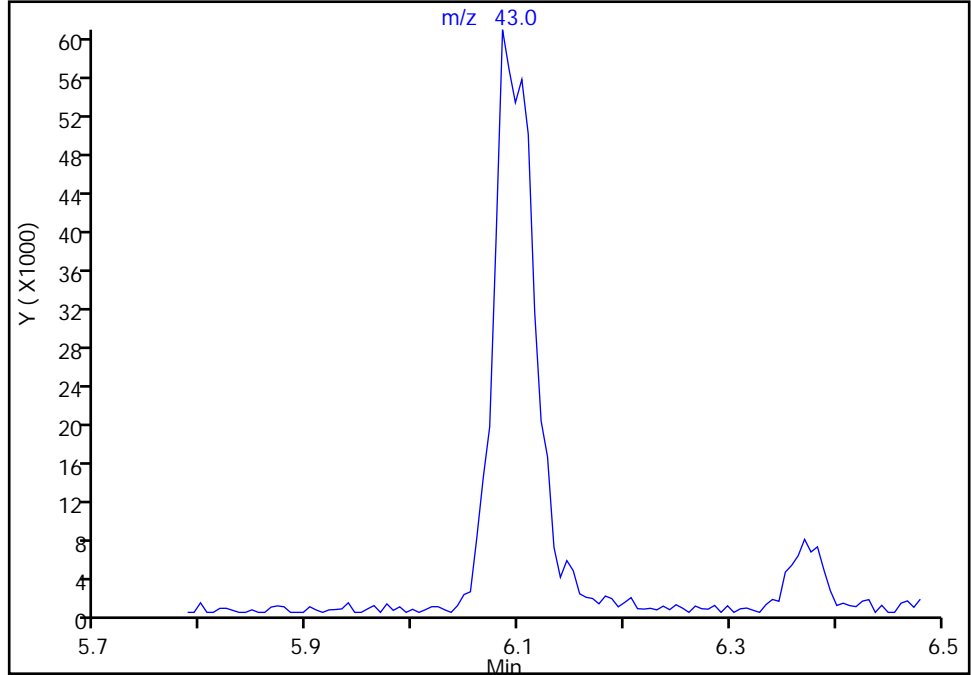
Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191019-29191.b\6101904A.D
Injection Date: 19-Oct-2019 14:25:30 Instrument ID: CHHP6
Lims ID: LCS
Client ID:
Operator ID: 433269 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C_D ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

44 2-Butanone (MEK), CAS: 78-93-3

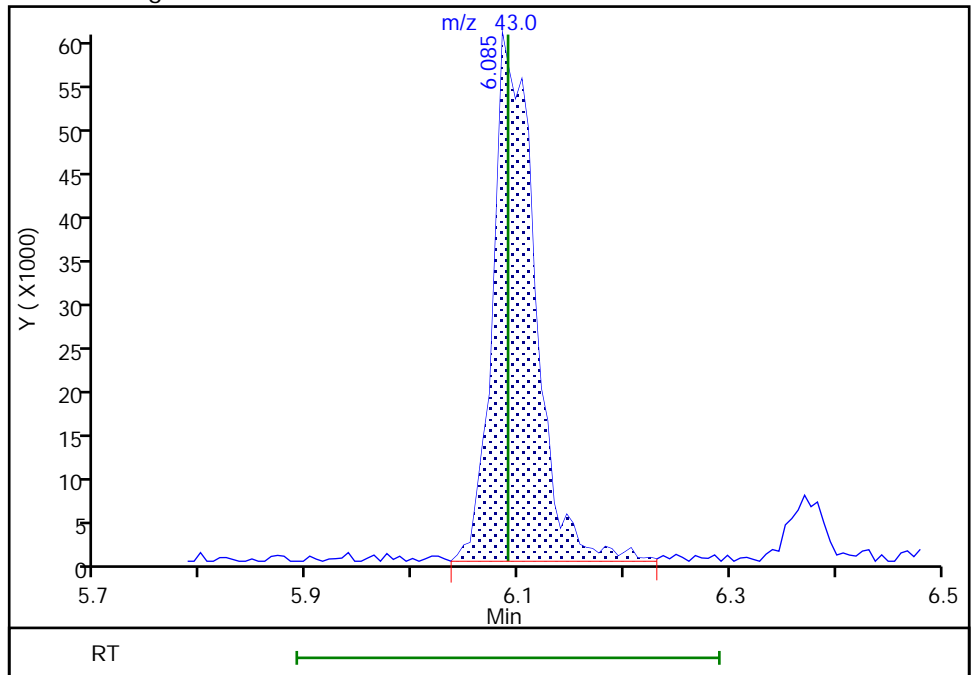
Signal: 1

Not Detected
Expected RT: 6.09

Processing Integration Results



Manual Integration Results



RT: 6.08
Area: 168004
Amount: 108.7367
Amount Units: ng

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 180-295765/4
 Matrix: Water Lab File ID: 6102304A.D
 Analysis Method: EPA 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 10/23/2019 10:55
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 295765 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	13.0		1.0	0.90
75-01-4	Vinyl chloride	11.3		1.0	0.88
74-83-9	Bromomethane	10.7		1.0	0.89
75-00-3	Chloroethane	12.9		1.0	0.90
75-35-4	1,1-Dichloroethene	10.7		1.0	0.55
67-64-1	Acetone	18.5		5.0	3.4
75-15-0	Carbon disulfide	10.7		1.0	0.88
75-09-2	Methylene Chloride	11.1		1.0	0.89
156-60-5	trans-1,2-Dichloroethene	10.3		1.0	0.67
1634-04-4	Methyl tert-butyl ether	10.3		1.0	0.59
75-34-3	1,1-Dichloroethane	12.0		1.0	0.63
156-59-2	cis-1,2-Dichloroethene	10.6		1.0	0.71
74-97-5	Bromochloromethane	9.89		1.0	0.63
78-93-3	2-Butanone (MEK)	23.7		5.0	2.6
67-66-3	Chloroform	10.4		1.0	0.60
71-55-6	1,1,1-Trichloroethane	9.82		1.0	0.60
56-23-5	Carbon tetrachloride	9.50		1.0	0.88
71-43-2	Benzene	11.2		1.0	0.60
107-06-2	1,2-Dichloroethane	9.76		1.0	0.57
79-01-6	Trichloroethene	9.86		1.0	0.69
78-87-5	1,2-Dichloropropane	12.1		1.0	0.66
75-27-4	Bromodichloromethane	10.6		1.0	0.64
10061-01-5	cis-1,3-Dichloropropene	11.4		1.0	0.59
108-10-1	4-Methyl-2-pentanone (MIBK)	28.2		5.0	3.1
108-88-3	Toluene	11.3		1.0	0.46
10061-02-6	trans-1,3-Dichloropropene	10.7		1.0	0.58
79-00-5	1,1,2-Trichloroethane	11.1		1.0	0.45
127-18-4	Tetrachloroethene	10.9		1.0	0.47
591-78-6	2-Hexanone	24.4		5.0	3.3
124-48-1	Dibromochloromethane	9.73		1.0	0.84
106-93-4	1,2-Dibromoethane (EDB)	11.0		1.0	0.50
108-90-7	Chlorobenzene	10.5		1.0	0.50
630-20-6	1,1,1,2-Tetrachloroethane	10.1		1.0	0.57
100-41-4	Ethylbenzene	11.3		1.0	0.51
1330-20-7	Xylenes, Total	22.7		2.0	0.89
100-42-5	Styrene	11.1		1.0	0.47

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 180-295765/4
 Matrix: Water Lab File ID: 6102304A.D
 Analysis Method: EPA 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 10/23/2019 10:55
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 295765 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	10.3		1.0	0.98
79-34-5	1,1,2,2-Tetrachloroethane	11.5		1.0	0.60
107-13-1	Acrylonitrile	143		20	7.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		70-150
2037-26-5	Toluene-d8 (Surr)	112		78-128
460-00-4	4-Bromofluorobenzene (Surr)	113		64-123
1868-53-7	Dibromofluoromethane (Surr)	94		75-147

Eurofins TestAmerica, Pittsburgh
Target Compound Quantitation Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\6102304A.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 23-Oct-2019 10:55:30 ALS Bottle#: 4 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-0029242-004
 Misc. Info.: LCS
 Operator ID: 433269 Instrument ID: CHHP6
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C_D ICAL
 Last Update: 24-Oct-2019 08:47:06 Calib Date: 18-Oct-2019 18:47:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101817.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX0337

First Level Reviewer: bowieh

Date: 24-Oct-2019 08:48:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.435	4.435	0.000	90	195216	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.410	7.410	0.000	97	546743	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.506	10.512	-0.006	91	130508	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.854	12.854	0.000	96	194809	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.686	6.686	0.000	94	121054	50.0	47.1	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	7.057	7.051	0.006	88	201220	50.0	51.3	
\$ 7 Toluene-d8 (Surr)	98	9.052	9.052	0.000	94	533611	50.0	56.2	
\$ 8 4-Bromofluorobenzene (Surr	95	11.692	11.693	0.000	0	222009	50.0	56.6	
11 Dichlorodifluoromethane	85	1.661	1.667	-0.006	99	226483	50.0	40.9	
12 Chloromethane	50	1.874	1.874	0.000	100	299719	50.0	64.9	
13 Vinyl chloride	62	2.007	2.002	0.005	57	222003	50.0	56.6	
14 Butadiene	39	2.014	2.008	0.006	93	257066	50.0	57.6	
15 Bromomethane	94	2.336	2.342	-0.006	94	88144	50.0	53.3	
16 Chloroethane	64	2.494	2.488	0.006	97	122094	50.0	64.6	
17 Dichlorofluoromethane	67	2.780	2.780	0.000	97	302114	50.0	55.1	
18 Trichlorofluoromethane	101	2.792	2.792	0.000	93	292318	50.0	46.7	
20 Ethyl ether	59	3.163	3.170	-0.007	98	146682	50.0	60.4	
22 1,1-Dichloroethene	96	3.461	3.468	-0.007	90	140002	50.0	53.5	
23 1,1,2-Trichloro-1,2,2-trif	101	3.553	3.553	0.000	94	162630	50.0	50.8	
24 Acetone	43	3.589	3.583	0.006	92	142477	100.0	92.3	
25 Iodomethane	142	3.662	3.662	0.000	98	220724	50.0	52.1	
26 Carbon disulfide	76	3.747	3.754	-0.007	100	380471	50.0	53.6	
29 3-Chloro-1-propene	76	4.070	4.070	0.000	89	84337	50.0	54.8	
30 Methyl acetate	43	4.100	4.100	0.000	100	295223	100.0	142.9	
31 Methylene Chloride	84	4.283	4.295	-0.012	95	172322	50.0	55.3	
32 2-Methyl-2-propanol	59	4.563	4.551	0.011	93	108747	500.0	538.3	
33 Acrylonitrile	53	4.678	4.678	0.000	100	745692	500.0	713.1	
34 trans-1,2-Dichloroethene	96	4.702	4.703	-0.001	95	162794	50.0	51.7	
35 Methyl tert-butyl ether	73	4.721	4.709	0.012	98	350878	50.0	51.5	
36 Hexane	57	5.110	5.110	0.000	94	355949	50.0	65.2	
37 1,1-Dichloroethane	63	5.335	5.335	0.000	96	329346	50.0	59.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
38 Vinyl acetate	43	5.384	5.384	0.000	97	252937	50.0	54.4	a
42 2,2-Dichloropropane	97	6.071	6.065	0.006	59	32521	50.0	49.6	
43 cis-1,2-Dichloroethene	96	6.077	6.077	0.000	88	173129	50.0	52.8	
44 2-Butanone (MEK)	43	6.089	6.090	-0.001	99	183477	100.0	118.7	
48 Chlorobromomethane	128	6.363	6.363	0.000	88	73831	50.0	49.4	
49 Tetrahydrofuran	42	6.369	6.376	-0.007	0	112880	100.0	152.2	
50 Chloroform	83	6.503	6.503	0.000	97	296908	50.0	52.2	
51 1,1,1-Trichloroethane	97	6.661	6.661	0.000	97	236709	50.0	49.1	
52 Cyclohexane	56	6.722	6.728	-0.006	94	416036	50.0	63.3	
53 Carbon tetrachloride	117	6.826	6.826	0.000	95	193851	50.0	47.5	
54 1,1-Dichloropropene	75	6.850	6.844	0.006	89	237092	50.0	54.1	
55 Isobutyl alcohol	41	7.063	7.057	0.006	72	111536	1250.0	1700.0	
56 Benzene	78	7.069	7.063	0.006	96	636495	50.0	56.0	
57 1,2-Dichloroethane	62	7.136	7.136	0.000	96	251438	50.0	48.8	
59 n-Heptane	43	7.416	7.416	0.000	95	349702	50.0	65.7	
61 Trichloroethene	130	7.787	7.793	-0.006	95	173301	50.0	49.3	
63 Methylcyclohexane	83	8.024	8.024	0.000	92	320194	50.0	54.4	
64 1,2-Dichloropropane	63	8.060	8.067	-0.007	91	163749	50.0	60.4	
65 1,4-Dioxane	88	8.152	8.146	0.006	50	23615	1000.0	1198.8	
67 Dibromomethane	93	8.152	8.146	0.006	95	75572	50.0	46.7	
68 Dichlorobromomethane	83	8.346	8.347	-0.001	97	181367	50.0	52.9	
70 2-Chloroethyl vinyl ether	63	8.651	8.651	0.000	90	184964	100.0	95.7	
71 cis-1,3-Dichloropropene	75	8.791	8.791	-0.001	90	200928	50.0	56.8	
72 4-Methyl-2-pentanone (MIBK)	43	8.949	8.949	0.000	98	312270	100.0	141.2	
73 Toluene	91	9.119	9.119	0.000	97	665221	50.0	56.7	
74 trans-1,3-Dichloropropene	75	9.368	9.369	-0.001	98	168904	50.0	53.3	
75 Ethyl methacrylate	69	9.429	9.429	0.000	94	156991	50.0	55.9	
76 1,1,2-Trichloroethane	97	9.563	9.563	0.000	93	120173	50.0	55.5	
77 Tetrachloroethene	164	9.630	9.636	-0.006	94	133968	50.0	54.3	
78 1,3-Dichloropropane	76	9.721	9.721	0.000	97	220752	50.0	58.5	
79 2-Hexanone	43	9.782	9.782	0.000	97	221519	100.0	121.9	
81 Chlorodibromomethane	129	9.934	9.934	0.000	91	102842	50.0	48.6	
82 Ethylene Dibromide	107	10.044	10.044	0.000	99	121039	50.0	55.0	
84 Chlorobenzene	112	10.536	10.537	-0.001	90	410953	50.0	52.7	
86 1,1,1,2-Tetrachloroethane	131	10.628	10.634	-0.006	41	125953	50.0	50.5	
87 Ethylbenzene	106	10.640	10.634	0.006	98	257332	50.0	56.3	
88 m-Xylene & p-Xylene	106	10.768	10.768	0.000	98	318822	50.0	57.2	
89 o-Xylene	106	11.151	11.151	0.000	96	301363	50.0	56.2	
90 Styrene	104	11.169	11.169	0.000	93	474056	50.0	55.6	
91 Bromoform	173	11.352	11.352	0.000	94	56228	50.0	51.4	
93 Isopropylbenzene	105	11.516	11.516	0.000	98	814851	50.0	57.5	
95 Bromobenzene	156	11.832	11.832	0.000	98	162812	50.0	52.9	
96 1,1,2,2-Tetrachloroethane	83	11.832	11.832	0.000	69	132231	50.0	57.5	
97 trans-1,4-Dichloro-2-buten	53	11.875	11.869	0.006	64	53147	50.0	55.2	
98 1,2,3-Trichloropropane	110	11.887	11.887	0.000	91	53440	50.0	51.9	
99 N-Propylbenzene	120	11.936	11.936	0.000	98	220560	50.0	52.4	
100 2-Chlorotoluene	126	12.027	12.027	0.000	95	166582	50.0	49.8	
102 1,3,5-Trimethylbenzene	105	12.118	12.118	0.000	94	676922	50.0	54.9	
103 4-Chlorotoluene	126	12.149	12.143	0.006	99	179583	50.0	51.2	
104 tert-Butylbenzene	119	12.428	12.429	-0.001	94	549104	50.0	50.9	
106 1,2,4-Trimethylbenzene	105	12.489	12.489	0.000	98	665055	50.0	54.8	
108 sec-Butylbenzene	105	12.654	12.654	0.000	96	849275	50.0	56.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
109 1,3-Dichlorobenzene	146	12.775	12.775	0.000	95	310417	50.0	53.8	
110 4-Isopropyltoluene	119	12.806	12.812	-0.006	96	687724	50.0	52.3	
111 1,4-Dichlorobenzene	146	12.879	12.879	0.000	92	325741	50.0	56.8	
116 n-Butylbenzene	91	13.219	13.219	0.000	98	611326	50.0	55.3	
117 1,2-Dichlorobenzene	146	13.238	13.238	0.000	92	280511	50.0	53.5	
118 1,2-Dibromo-3-Chloropropan	75	14.028	14.035	-0.007	75	19637	50.0	56.2	
122 1,2,4-Trichlorobenzene	180	14.850	14.850	0.000	92	132962	50.0	52.0	
123 Hexachlorobutadiene	225	14.990	14.990	0.000	94	71120	50.0	44.4	
124 Naphthalene	128	15.117	15.124	-0.007	97	318312	50.0	58.0	
125 1,2,3-Trichlorobenzene	180	15.348	15.355	-0.007	92	111686	50.0	55.7	
S 130 1,2-Dichloroethene, Total	96				0		100.0	104.5	
S 131 Xylenes, Total	106				0		100.0	113.3	
S 154 Total BTEX	1				0		250.0	282.3	
S 132 1,3-Dichloropropene, Total	1				0		100.0	110.0	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

VOACEVEPRI_00055	Amount Added: 2.00	Units: uL	
voaWKetmix1st_00019	Amount Added: 2.00	Units: uL	
VOAVAPRI_00028	Amount Added: 2.00	Units: uL	
VOA8260VOAPRI_00376	Amount Added: 2.00	Units: uL	
voaWI/SHP5_00014	Amount Added: 5.00	Units: uL	Run Reagent

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\6102304A.D

Injection Date: 23-Oct-2019 10:55:30

Instrument ID: CHHP6

Operator ID: 433269

Lims ID: LCS

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

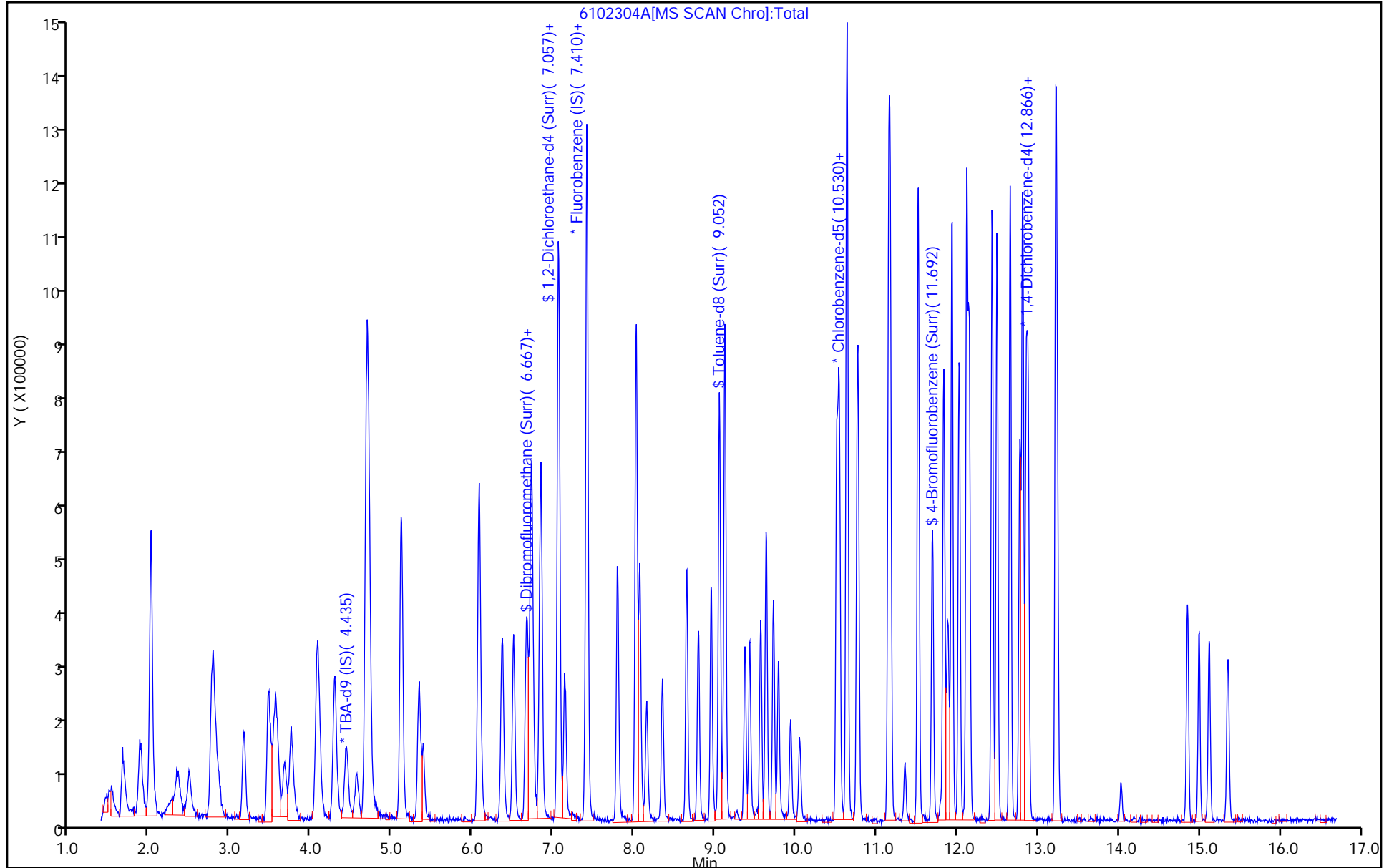
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C_D ICAL

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Pittsburgh
Recovery Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\6102304A.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 23-Oct-2019 10:55:30 ALS Bottle#: 4 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-0029242-004
 Misc. Info.: LCS
 Operator ID: 433269 Instrument ID: CHHP6
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20191023-29242.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C_D ICAL
 Last Update: 24-Oct-2019 08:47:06 Calib Date: 18-Oct-2019 18:47:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191018-29183.b\6101817.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX0337

First Level Reviewer: bowieh

Date: 24-Oct-2019 08:48:53

Compound	Amount Added	Amount Recovered	% Rec.
\$ 5 Dibromofluoromethane (Surr)	50.0	47.1	94.25
\$ 6 1,2-Dichloroethane-d4 (Surr)	50.0	51.3	102.51
\$ 7 Toluene-d8 (Surr)	50.0	56.2	112.43
\$ 8 4-Bromofluorobenzene (Surr)	50.0	56.6	113.29

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1

SDG No.: _____

Instrument ID: CHHP6 Start Date: 10/18/2019 14:05Analysis Batch Number: 295392 End Date: 10/18/2019 22:40

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 180-295392/1		10/18/2019 14:05	1	6101807A.D	DB-624 0.18 (mm)
IC 180-295392/4		10/18/2019 15:43	1	6101810.D	DB-624 0.18 (mm)
IC 180-295392/5		10/18/2019 16:10	1	6101811.D	DB-624 0.18 (mm)
ICIS 180-295392/6		10/18/2019 16:37	1	6101812.D	DB-624 0.18 (mm)
IC 180-295392/7		10/18/2019 17:02	1	6101813.D	DB-624 0.18 (mm)
IC 180-295392/8		10/18/2019 17:29	1	6101814.D	DB-624 0.18 (mm)
IC 180-295392/9		10/18/2019 17:55	1	6101815.D	DB-624 0.18 (mm)
IC 180-295392/10		10/18/2019 18:21	1	6101816.D	DB-624 0.18 (mm)
IC 180-295392/11		10/18/2019 18:47	1	6101817.D	DB-624 0.18 (mm)
ICV 180-295392/18		10/18/2019 21:48	1		DB-624 0.18 (mm)
ZZZZZ		10/18/2019 22:40	1		DB-624 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1

SDG No.: _____

Instrument ID: CHHP6 Start Date: 10/19/2019 12:45

Analysis Batch Number: 295448 End Date: 10/19/2019 23:59

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 180-295448/1		10/19/2019 12:45	1	6101901D.D	DB-624 0.18 (mm)
CCVIS 180-295448/2		10/19/2019 13:21	1	6101902.D	DB-624 0.18 (mm)
LCS 180-295448/4		10/19/2019 14:25	1	6101904A.D	DB-624 0.18 (mm)
ZZZZZ		10/19/2019 14:51	1		DB-624 0.18 (mm)
MB 180-295448/6		10/19/2019 15:44	1	6101906A.D	DB-624 0.18 (mm)
ZZZZZ		10/19/2019 16:36	1		DB-624 0.18 (mm)
180-97133-1		10/19/2019 17:02	1	6101909.D	DB-624 0.18 (mm)
180-97133-2		10/19/2019 17:28	1	6101910.D	DB-624 0.18 (mm)
180-97133-3		10/19/2019 17:54	1	6101911.D	DB-624 0.18 (mm)
180-97133-4		10/19/2019 18:20	1	6101912.D	DB-624 0.18 (mm)
180-97133-8		10/19/2019 18:46	1	6101913.D	DB-624 0.18 (mm)
180-97133-5		10/19/2019 22:14	1	6101921.D	DB-624 0.18 (mm)
180-97133-6 DL		10/19/2019 22:40	10	6101922.D	DB-624 0.18 (mm)
180-97133-7		10/19/2019 23:06	1	6101923.D	DB-624 0.18 (mm)
ZZZZZ		10/19/2019 23:33	1		DB-624 0.18 (mm)
ZZZZZ		10/19/2019 23:59	1		DB-624 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-97133-1

SDG No.: _____

Instrument ID: CHHP6 Start Date: 10/23/2019 09:16

Analysis Batch Number: 295765 End Date: 10/23/2019 20:04

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 180-295765/1		10/23/2019 09:16	1	6102301.D	DB-624 0.18 (mm)
CCVIS 180-295765/2		10/23/2019 09:50	1	6102302.D	DB-624 0.18 (mm)
LCS 180-295765/4		10/23/2019 10:55	1	6102304A.D	DB-624 0.18 (mm)
ZZZZZ		10/23/2019 11:21	1		DB-624 0.18 (mm)
MB 180-295765/6		10/23/2019 12:13	1	6102306A.D	DB-624 0.18 (mm)
ZZZZZ		10/23/2019 13:05	1		DB-624 0.18 (mm)
ZZZZZ		10/23/2019 13:57	1		DB-624 0.18 (mm)
ZZZZZ		10/23/2019 14:50	1000		DB-624 0.18 (mm)
ZZZZZ		10/23/2019 15:16	50		DB-624 0.18 (mm)
ZZZZZ		10/23/2019 15:42	5		DB-624 0.18 (mm)
ZZZZZ		10/23/2019 16:08	10		DB-624 0.18 (mm)
ZZZZZ		10/23/2019 16:35	1		DB-624 0.18 (mm)
180-97133-6		10/23/2019 17:01	1	6102317.D	DB-624 0.18 (mm)
ZZZZZ		10/23/2019 17:27	200		DB-624 0.18 (mm)
ZZZZZ		10/23/2019 17:53	5		DB-624 0.18 (mm)
ZZZZZ		10/23/2019 18:19	1		DB-624 0.18 (mm)
ZZZZZ		10/23/2019 19:38	1000		DB-624 0.18 (mm)
ZZZZZ		10/23/2019 20:04	1000		DB-624 0.18 (mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Pittsbur Job No.: 180-97133-1

SDG No.: _____

Batch Number: 295448 Batch Start Date: 10/19/19 12:45 Batch Analyst: Bowie, Hannah R

Batch Method: EPA 8260C Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	VOA8260VOAPRI 00376	VOABFB25 00119	VOACEVEPRI 00054
BFB 180-295448/1		EPA 8260C		5 mL	5 mL			1 uL	
CCVIS 180-295448/2		EPA 8260C		5 mL	5 mL		2 uL		2 uL
LCS 180-295448/4		EPA 8260C		5 mL	5 mL		2 uL		2 uL
MB 180-295448/6		EPA 8260C		5 mL	5 mL				
180-97133-B-1	HD-COD-SW-17-0/1-0	EPA 8260C	T	5 mL	5 mL	<2 SU			
180-97133-A-2	HD-MW-6-0/1-0	EPA 8260C	T	5 mL	5 mL	<2 SU			
180-97133-A-3	HD-MW-5-0/1-0	EPA 8260C	T	5 mL	5 mL	<2 SU			
180-97133-C-4	HD-MW-111-0/1-0	EPA 8260C	T	5 mL	5 mL	<2 SU			
180-97133-A-8	HD-QC8-0/1-2	EPA 8260C	T	5 mL	5 mL	<2 SU			
180-97133-A-5	HD-MW-79-0/1-0	EPA 8260C	T	5 mL	5 mL	<2 SU			
180-97133-C-6	HD-MW-115-0/1-0	EPA 8260C	T	5 mL	5 mL	<2 SU			
180-97133-B-7	HD-MW-88-0/1-0	EPA 8260C	T	5 mL	5 mL	<2 SU			

Lab Sample ID	Client Sample ID	Method Chain	Basis	VOAVAPRI 00028	voaWI/SHP5 00014	voaWKetmix1st 00019			
BFB 180-295448/1		EPA 8260C							
CCVIS 180-295448/2		EPA 8260C		2 uL	5 uL	2 uL			
LCS 180-295448/4		EPA 8260C		2 uL	5 uL	2 uL			
MB 180-295448/6		EPA 8260C			5 uL				
180-97133-B-1	HD-COD-SW-17-0/1-0	EPA 8260C	T		5 uL				
180-97133-A-2	HD-MW-6-0/1-0	EPA 8260C	T		5 uL				
180-97133-A-3	HD-MW-5-0/1-0	EPA 8260C	T		5 uL				
180-97133-C-4	HD-MW-111-0/1-0	EPA 8260C	T		5 uL				
180-97133-A-8	HD-QC8-0/1-2	EPA 8260C	T		5 uL				
180-97133-A-5	HD-MW-79-0/1-0	EPA 8260C	T		5 uL				
180-97133-C-6	HD-MW-115-0/1-0	EPA 8260C	T		5 uL				
180-97133-B-7	HD-MW-88-0/1-0	EPA 8260C	T		5 uL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Pittsbur Job No.: 180-97133-1

SDG No.: _____

Batch Number: 295448 Batch Start Date: 10/19/19 12:45 Batch Analyst: Bowie, Hannah R

Batch Method: EPA 8260C Batch End Date: _____

Batch Notes	
Batch Comment	MeOH 3167194
pH Indicator ID	HC991818

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Pittsbur Job No.: 180-97133-1

SDG No.: _____

Batch Number: 295765 Batch Start Date: 10/23/19 09:16 Batch Analyst: Bowie, Hannah R

Batch Method: EPA 8260C Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	VOA8260VOAPRI 00376	VOABFB25 00119	VOACEVEPRI 00055
BFB 180-295765/1		EPA 8260C		5 mL	5 mL			1 uL	
CCVIS 180-295765/2		EPA 8260C		5 mL	5 mL		2 uL		2 uL
LCS 180-295765/4		EPA 8260C		5 mL	5 mL		2 uL		2 uL
MB 180-295765/6		EPA 8260C		5 mL	5 mL				
180-97133-A-6	HD-MW-115-0/1-0	EPA 8260C	T	5 mL	5 mL	<2 SU			

Lab Sample ID	Client Sample ID	Method Chain	Basis	VOAVAPRI 00028	voaWI/SHP5 00014	voaWKetmix1st 00019			
BFB 180-295765/1		EPA 8260C							
CCVIS 180-295765/2		EPA 8260C		2 uL	5 uL	2 uL			
LCS 180-295765/4		EPA 8260C		2 uL	5 uL	2 uL			
MB 180-295765/6		EPA 8260C			5 uL				
180-97133-A-6	HD-MW-115-0/1-0	EPA 8260C	T		5 uL				

Batch Notes	
Batch Comment	MeOH 3167194
pH Indicator ID	HC991818

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

Project Manager: Chris O'Neil
Tel/Fax: 717-901-8176 / (717) 756-1246

Site Contact: Casey Littlefield
Lab Contact: Carrie Gamber

Analysis Turnaround Time
Calendar (C) or Work Days (W)
 2 weeks
 1 week
 2 days
 1 day

TAT, if different from Below, Standard

Container No. _____
SDG No. _____

COC No. _____ of _____ COCs
Job No. 1001242

Date Submitted: _____
Carrier: FEDEX

Harrisburg #267

Sample Specific Notes:

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.
HD-COD-SW-17-0/1-0	10/19/19	0840	VOA	GW	3
HD-MW-6-0/1-0		1325			
HD-MW-5-0/1-0		1150			
HD-MW-11-0/1-0		1405			
HD-MW-79-0/1-0	10/19/19	1058			
HD-MW-115-0/1-0		1145			
HD-MW-88-0/1-0		1340			
HD-QC8-0/1-2	10/19/19	- Trip	DF		2



180-97133 Chain of Custody

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Spinal By Lab Months

Number of Containers: _____
 Preservation Used: 1 = Ice, 2 = HCl; 3 = H2SO4; 4 = HNO3; 5 = NaOH; 6 = Unpreserved 7 = Na2S2O3

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Unknown

Special Instructions/QC Requirements & Comments: CLP Like Deliverables, Project Specific Analyte Lists

Relinquished by:	Relinquished by:	Relinquished by:	Company:	Date/Time:	Received by:	Received by:	Received by:	Company:	Date/Time:
Casey Littlefield	Eric Pedling		GSC	10/10/19 1501	[Signature]		ETA	ETA	10/10/19 1501
			ETA	10/10/19	[Signature]		ETA	ETA	10/10/19
			ETA	10/11/19 900 AM	Allyson Swinwood		TA P1H	TA P1H	10/11/19 900 AM

Do Not Lift Using This Icon

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

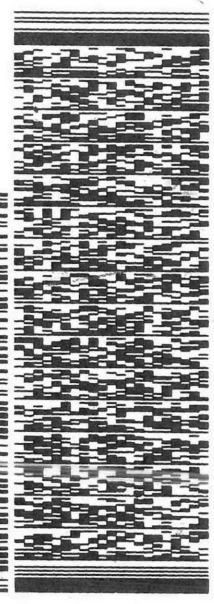
ORIGIN ID:GTYA (717) 461-6245
TESTAMERICA HARRISBURG SC
5020 RITTER RD
SUITES 205/206
MECHANICSBURG, PA 170554837
UNITED STATES US

SHIP DATE: 11/08/18
ACT/AC
CAD:

BILL RT **0**
FZ **0**

TO **SAMPLE RECEIVING**
TESTAMERICA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 152382907

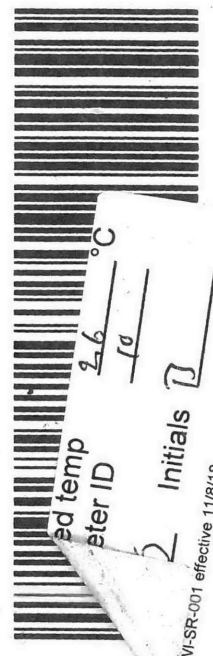
(412) 963-7066
REF: 180-97133
DEPT:



FRI - 11 OCT 10:30
PRIORITY OVERNIGHT

TRK# **4690 5823 1357**
0201

EK AGCA **1523**
PA-US **PI**



PT-WI-SR-001 effective 11/8/18

Login Sample Receipt Checklist

Client: Groundwater Sciences Corporation

Job Number: 180-97133-1

Login Number: 97133

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Sciomacco, Alyson E

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	