

## ANALYTICAL REPORT

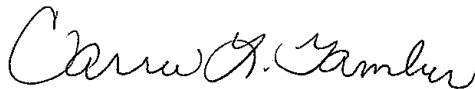
Job Number: 180-101459-1

Job Description: fYNOP

For:

Groundwater Sciences Corporation  
2601 Market Place Street, Suite 310  
Harrisburg, PA 17110-9307

Attention: Christopher O'Neil



Approved for release.  
Carrie L. Gamber  
Senior Project Manager  
1/29/2020 2:03 PM

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01/29/2020

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# Table of Contents

Cover Title Page . . . . .	1
Data Summaries . . . . .	4
Definitions . . . . .	4
Case Narrative . . . . .	5
Detection Summary . . . . .	6
Client Sample Results . . . . .	7
Default Detection Limits . . . . .	21
Surrogate Summary . . . . .	22
QC Sample Results . . . . .	23
QC Association . . . . .	27
Chronicle . . . . .	28
Certification Summary . . . . .	31
Method Summary . . . . .	32
Sample Summary . . . . .	33
Manual Integration Summary . . . . .	34
Reagent Traceability . . . . .	66
COAs . . . . .	75
Organic Sample Data . . . . .	131
GC/MS VOA . . . . .	131
Method 8260C Low Level . . . . .	131
Method 8260C Low Level QC Summary . . . . .	132
Method 8260C Low Level Sample Data . . . . .	141
Standards Data . . . . .	707
Method 8260C Low Level ICAL Data . . . . .	707
Method 8260C Low Level CCAL Data . . . . .	775
Raw QC Data . . . . .	794

# Table of Contents

Method 8260C Low Level Tune Data .....	794
Method 8260C Low Level Blank Data .....	804
Method 8260C Low Level LCS/LCSD Data .....	851
Method 8260C Low Level MS/MSD Data .....	858
Method 8260C Low Level Run Logs .....	871
Method 8260C Low Level Prep Data .....	873
Shipping and Receiving Documents .....	876
Client Chain of Custody .....	877
Sample Receipt Checklist .....	880

# Definitions/Glossary

Client: Groundwater Sciences Corporation  
Project/Site: fYNOP

Job ID: 180-101459-1

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## Qualifiers

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### GC/MS VOA

Qualifier	Qualifier Description
^c	CCV Recovery is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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## Glossary

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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: 180-101459-1**

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 01/24/2020; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.6 C.

One out of three containers for the following sample was received broken: HD-COD-SW-28-0/1-0 (180-101459-13).

### **VOLATILES**

The following sample was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The sample was analyzed within the 7-day holding time specified for unpreserved samples: HD-QC1-0/1-2 (180-101459-14).

Several analytes failed the recovery criteria high for the MSD of sample HD-COD-SW-15-0/1-0 (180-101459-10) in batch 180-304996. Chloroform exceeded the RPD limit.

The continuing calibration verification (CCV) analyzed in 180-304996 was outside the method criteria high for the following analytes: Bromomethane, Chloroethane, Chloromethane and Vinyl chloride. 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: 180-101459-1

**Client Sample ID: HD-COD-SW-29-0/1-0**

**Lab Sample ID: 180-101459-1**

No Detections.

**Client Sample ID: HD-COD-SW-8-0/1-0**

**Lab Sample ID: 180-101459-2**

No Detections.

**Client Sample ID: HD-COD-SW-13-0/1-0**

**Lab Sample ID: 180-101459-3**

No Detections.

**Client Sample ID: HD-COD-SW-16-0/1-0**

**Lab Sample ID: 180-101459-4**

No Detections.

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

**Lab Sample ID: 180-101459-5**

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	3.1		1.0	0.47	ug/L	1		EPA 8260C	Total/NA

**Client Sample ID: HD-COD-SW-6-0/1-0**

**Lab Sample ID: 180-101459-6**

No Detections.

**Client Sample ID: HD-COD-SW-26-0/1-0**

**Lab Sample ID: 180-101459-7**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	4.0		1.0	0.47	ug/L	1		EPA 8260C	Total/NA

**Client Sample ID: HD-COD-SW-7-0/1-0**

**Lab Sample ID: 180-101459-8**

No Detections.

**Client Sample ID: HD-COD-SW-27-0/1-0**

**Lab Sample ID: 180-101459-9**

No Detections.

**Client Sample ID: HD-COD-SW-15-0/1-0**

**Lab Sample ID: 180-101459-10**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.87	J F1	1.0	0.71	ug/L	1		EPA 8260C	Total/NA
Trichloroethene	0.86	J	1.0	0.69	ug/L	1		EPA 8260C	Total/NA
Tetrachloroethene	2.4		1.0	0.47	ug/L	1		EPA 8260C	Total/NA

**Client Sample ID: HD-QC1-0/1-1**

**Lab Sample ID: 180-101459-11**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	4.0		1.0	0.47	ug/L	1		EPA 8260C	Total/NA

**Client Sample ID: HD-COD-SW-9-0/1-0**

**Lab Sample ID: 180-101459-12**

No Detections.

**Client Sample ID: HD-COD-SW-28-0/1-0**

**Lab Sample ID: 180-101459-13**

No Detections.

**Client Sample ID: HD-QC1-0/1-2**

**Lab Sample ID: 180-101459-14**

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Groundwater Sciences Corporation  
 Project/Site: fYNOP

Job ID: 180-101459-1

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

**Client Sample ID: HD-COD-SW-29-0/1-0**

**Date Collected: 01/23/20 10:05**

**Date Received: 01/24/20 09:00**

**Lab Sample ID: 180-101459-1**

**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND	^c	1.0	0.90	ug/L			01/25/20 13:54	1
Vinyl chloride	ND	^c	1.0	0.88	ug/L			01/25/20 13:54	1
Bromomethane	ND	^c	1.0	0.89	ug/L			01/25/20 13:54	1
Chloroethane	ND	^c	1.0	0.90	ug/L			01/25/20 13:54	1
1,1-Dichloroethene	ND		1.0	0.55	ug/L			01/25/20 13:54	1
Acetone	ND		5.0	3.4	ug/L			01/25/20 13:54	1
Carbon disulfide	ND		1.0	0.88	ug/L			01/25/20 13:54	1
Methylene Chloride	ND		1.0	0.89	ug/L			01/25/20 13:54	1
trans-1,2-Dichloroethene	ND		1.0	0.67	ug/L			01/25/20 13:54	1
Methyl tert-butyl ether	ND		1.0	0.59	ug/L			01/25/20 13:54	1
1,1-Dichloroethane	ND		1.0	0.63	ug/L			01/25/20 13:54	1
cis-1,2-Dichloroethene	ND		1.0	0.71	ug/L			01/25/20 13:54	1
Bromochloromethane	ND		1.0	0.63	ug/L			01/25/20 13:54	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			01/25/20 13:54	1
Chloroform	ND		1.0	0.60	ug/L			01/25/20 13:54	1
1,1,1-Trichloroethane	ND		1.0	0.60	ug/L			01/25/20 13:54	1
Carbon tetrachloride	ND		1.0	0.88	ug/L			01/25/20 13:54	1
Benzene	ND		1.0	0.60	ug/L			01/25/20 13:54	1
1,2-Dichloroethane	ND		1.0	0.57	ug/L			01/25/20 13:54	1
Trichloroethene	ND		1.0	0.69	ug/L			01/25/20 13:54	1
1,2-Dichloropropane	ND		1.0	0.66	ug/L			01/25/20 13:54	1
Bromodichloromethane	ND		1.0	0.64	ug/L			01/25/20 13:54	1
cis-1,3-Dichloropropene	ND		1.0	0.59	ug/L			01/25/20 13:54	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	3.1	ug/L			01/25/20 13:54	1
Toluene	ND		1.0	0.46	ug/L			01/25/20 13:54	1
trans-1,3-Dichloropropene	ND		1.0	0.58	ug/L			01/25/20 13:54	1
1,1,2-Trichloroethane	ND		1.0	0.45	ug/L			01/25/20 13:54	1
Tetrachloroethene	ND		1.0	0.47	ug/L			01/25/20 13:54	1
2-Hexanone	ND		5.0	3.3	ug/L			01/25/20 13:54	1
Dibromochloromethane	ND		1.0	0.84	ug/L			01/25/20 13:54	1
1,2-Dibromoethane (EDB)	ND		1.0	0.50	ug/L			01/25/20 13:54	1
Chlorobenzene	ND		1.0	0.50	ug/L			01/25/20 13:54	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.57	ug/L			01/25/20 13:54	1
Ethylbenzene	ND		1.0	0.51	ug/L			01/25/20 13:54	1
Xylenes, Total	ND		2.0	0.89	ug/L			01/25/20 13:54	1
Styrene	ND		1.0	0.47	ug/L			01/25/20 13:54	1
Bromoform	ND		1.0	0.98	ug/L			01/25/20 13:54	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.60	ug/L			01/25/20 13:54	1
Acrylonitrile	ND		20	7.8	ug/L			01/25/20 13:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		70 - 150		01/25/20 13:54	1
Toluene-d8 (Surr)	101		78 - 128		01/25/20 13:54	1
4-Bromofluorobenzene (Surr)	79		64 - 123		01/25/20 13:54	1
Dibromofluoromethane (Surr)	101		75 - 147		01/25/20 13:54	1

# Client Sample Results

Client: Groundwater Sciences Corporation  
Project/Site: fYNOP

Job ID: 180-101459-1

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

**Client Sample ID: HD-COD-SW-8-0/1-0**

**Date Collected: 01/23/20 10:20**

**Date Received: 01/24/20 09:00**

**Lab Sample ID: 180-101459-2**

**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND	^c	1.0	0.90	ug/L			01/25/20 14:21	1
Vinyl chloride	ND	^c	1.0	0.88	ug/L			01/25/20 14:21	1
Bromomethane	ND	^c	1.0	0.89	ug/L			01/25/20 14:21	1
Chloroethane	ND	^c	1.0	0.90	ug/L			01/25/20 14:21	1
1,1-Dichloroethene	ND		1.0	0.55	ug/L			01/25/20 14:21	1
Acetone	ND		5.0	3.4	ug/L			01/25/20 14:21	1
Carbon disulfide	ND		1.0	0.88	ug/L			01/25/20 14:21	1
Methylene Chloride	ND		1.0	0.89	ug/L			01/25/20 14:21	1
trans-1,2-Dichloroethene	ND		1.0	0.67	ug/L			01/25/20 14:21	1
Methyl tert-butyl ether	ND		1.0	0.59	ug/L			01/25/20 14:21	1
1,1-Dichloroethane	ND		1.0	0.63	ug/L			01/25/20 14:21	1
cis-1,2-Dichloroethene	ND		1.0	0.71	ug/L			01/25/20 14:21	1
Bromochloromethane	ND		1.0	0.63	ug/L			01/25/20 14:21	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			01/25/20 14:21	1
Chloroform	ND		1.0	0.60	ug/L			01/25/20 14:21	1
1,1,1-Trichloroethane	ND		1.0	0.60	ug/L			01/25/20 14:21	1
Carbon tetrachloride	ND		1.0	0.88	ug/L			01/25/20 14:21	1
Benzene	ND		1.0	0.60	ug/L			01/25/20 14:21	1
1,2-Dichloroethane	ND		1.0	0.57	ug/L			01/25/20 14:21	1
Trichloroethene	ND		1.0	0.69	ug/L			01/25/20 14:21	1
1,2-Dichloropropane	ND		1.0	0.66	ug/L			01/25/20 14:21	1
Bromodichloromethane	ND		1.0	0.64	ug/L			01/25/20 14:21	1
cis-1,3-Dichloropropene	ND		1.0	0.59	ug/L			01/25/20 14:21	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	3.1	ug/L			01/25/20 14:21	1
Toluene	ND		1.0	0.46	ug/L			01/25/20 14:21	1
trans-1,3-Dichloropropene	ND		1.0	0.58	ug/L			01/25/20 14:21	1
1,1,2-Trichloroethane	ND		1.0	0.45	ug/L			01/25/20 14:21	1
Tetrachloroethene	ND		1.0	0.47	ug/L			01/25/20 14:21	1
2-Hexanone	ND		5.0	3.3	ug/L			01/25/20 14:21	1
Dibromochloromethane	ND		1.0	0.84	ug/L			01/25/20 14:21	1
1,2-Dibromoethane (EDB)	ND		1.0	0.50	ug/L			01/25/20 14:21	1
Chlorobenzene	ND		1.0	0.50	ug/L			01/25/20 14:21	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.57	ug/L			01/25/20 14:21	1
Ethylbenzene	ND		1.0	0.51	ug/L			01/25/20 14:21	1
Xylenes, Total	ND		2.0	0.89	ug/L			01/25/20 14:21	1
Styrene	ND		1.0	0.47	ug/L			01/25/20 14:21	1
Bromoform	ND		1.0	0.98	ug/L			01/25/20 14:21	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.60	ug/L			01/25/20 14:21	1
Acrylonitrile	ND		20	7.8	ug/L			01/25/20 14:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		70 - 150		01/25/20 14:21	1
Toluene-d8 (Surr)	100		78 - 128		01/25/20 14:21	1
4-Bromofluorobenzene (Surr)	77		64 - 123		01/25/20 14:21	1
Dibromofluoromethane (Surr)	95		75 - 147		01/25/20 14:21	1

# Client Sample Results

Client: Groundwater Sciences Corporation  
 Project/Site: fYNOP

Job ID: 180-101459-1

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

**Client Sample ID: HD-COD-SW-13-0/1-0**

**Date Collected: 01/23/20 10:40**

**Date Received: 01/24/20 09:00**

**Lab Sample ID: 180-101459-3**

**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND	^c	1.0	0.90	ug/L			01/25/20 14:49	1
Vinyl chloride	ND	^c	1.0	0.88	ug/L			01/25/20 14:49	1
Bromomethane	ND	^c	1.0	0.89	ug/L			01/25/20 14:49	1
Chloroethane	ND	^c	1.0	0.90	ug/L			01/25/20 14:49	1
1,1-Dichloroethene	ND		1.0	0.55	ug/L			01/25/20 14:49	1
Acetone	ND		5.0	3.4	ug/L			01/25/20 14:49	1
Carbon disulfide	ND		1.0	0.88	ug/L			01/25/20 14:49	1
Methylene Chloride	ND		1.0	0.89	ug/L			01/25/20 14:49	1
trans-1,2-Dichloroethene	ND		1.0	0.67	ug/L			01/25/20 14:49	1
Methyl tert-butyl ether	ND		1.0	0.59	ug/L			01/25/20 14:49	1
1,1-Dichloroethane	ND		1.0	0.63	ug/L			01/25/20 14:49	1
cis-1,2-Dichloroethene	ND		1.0	0.71	ug/L			01/25/20 14:49	1
Bromochloromethane	ND		1.0	0.63	ug/L			01/25/20 14:49	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			01/25/20 14:49	1
Chloroform	ND		1.0	0.60	ug/L			01/25/20 14:49	1
1,1,1-Trichloroethane	ND		1.0	0.60	ug/L			01/25/20 14:49	1
Carbon tetrachloride	ND		1.0	0.88	ug/L			01/25/20 14:49	1
Benzene	ND		1.0	0.60	ug/L			01/25/20 14:49	1
1,2-Dichloroethane	ND		1.0	0.57	ug/L			01/25/20 14:49	1
Trichloroethene	ND		1.0	0.69	ug/L			01/25/20 14:49	1
1,2-Dichloropropane	ND		1.0	0.66	ug/L			01/25/20 14:49	1
Bromodichloromethane	ND		1.0	0.64	ug/L			01/25/20 14:49	1
cis-1,3-Dichloropropene	ND		1.0	0.59	ug/L			01/25/20 14:49	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	3.1	ug/L			01/25/20 14:49	1
Toluene	ND		1.0	0.46	ug/L			01/25/20 14:49	1
trans-1,3-Dichloropropene	ND		1.0	0.58	ug/L			01/25/20 14:49	1
1,1,2-Trichloroethane	ND		1.0	0.45	ug/L			01/25/20 14:49	1
Tetrachloroethene	ND		1.0	0.47	ug/L			01/25/20 14:49	1
2-Hexanone	ND		5.0	3.3	ug/L			01/25/20 14:49	1
Dibromochloromethane	ND		1.0	0.84	ug/L			01/25/20 14:49	1
1,2-Dibromoethane (EDB)	ND		1.0	0.50	ug/L			01/25/20 14:49	1
Chlorobenzene	ND		1.0	0.50	ug/L			01/25/20 14:49	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.57	ug/L			01/25/20 14:49	1
Ethylbenzene	ND		1.0	0.51	ug/L			01/25/20 14:49	1
Xylenes, Total	ND		2.0	0.89	ug/L			01/25/20 14:49	1
Styrene	ND		1.0	0.47	ug/L			01/25/20 14:49	1
Bromoform	ND		1.0	0.98	ug/L			01/25/20 14:49	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.60	ug/L			01/25/20 14:49	1
Acrylonitrile	ND		20	7.8	ug/L			01/25/20 14:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		70 - 150		01/25/20 14:49	1
Toluene-d8 (Surr)	89		78 - 128		01/25/20 14:49	1
4-Bromofluorobenzene (Surr)	76		64 - 123		01/25/20 14:49	1
Dibromofluoromethane (Surr)	99		75 - 147		01/25/20 14:49	1

# Client Sample Results

Client: Groundwater Sciences Corporation  
 Project/Site: fYNOP

Job ID: 180-101459-1

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

**Client Sample ID: HD-COD-SW-16-0/1-0**

**Date Collected: 01/23/20 11:00**

**Date Received: 01/24/20 09:00**

**Lab Sample ID: 180-101459-4**

**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND	^c	1.0	0.90	ug/L			01/25/20 15:16	1
Vinyl chloride	ND	^c	1.0	0.88	ug/L			01/25/20 15:16	1
Bromomethane	ND	^c	1.0	0.89	ug/L			01/25/20 15:16	1
Chloroethane	ND	^c	1.0	0.90	ug/L			01/25/20 15:16	1
1,1-Dichloroethene	ND		1.0	0.55	ug/L			01/25/20 15:16	1
Acetone	ND		5.0	3.4	ug/L			01/25/20 15:16	1
Carbon disulfide	ND		1.0	0.88	ug/L			01/25/20 15:16	1
Methylene Chloride	ND		1.0	0.89	ug/L			01/25/20 15:16	1
trans-1,2-Dichloroethene	ND		1.0	0.67	ug/L			01/25/20 15:16	1
Methyl tert-butyl ether	ND		1.0	0.59	ug/L			01/25/20 15:16	1
1,1-Dichloroethane	ND		1.0	0.63	ug/L			01/25/20 15:16	1
cis-1,2-Dichloroethene	ND		1.0	0.71	ug/L			01/25/20 15:16	1
Bromochloromethane	ND		1.0	0.63	ug/L			01/25/20 15:16	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			01/25/20 15:16	1
Chloroform	ND		1.0	0.60	ug/L			01/25/20 15:16	1
1,1,1-Trichloroethane	ND		1.0	0.60	ug/L			01/25/20 15:16	1
Carbon tetrachloride	ND		1.0	0.88	ug/L			01/25/20 15:16	1
Benzene	ND		1.0	0.60	ug/L			01/25/20 15:16	1
1,2-Dichloroethane	ND		1.0	0.57	ug/L			01/25/20 15:16	1
Trichloroethene	ND		1.0	0.69	ug/L			01/25/20 15:16	1
1,2-Dichloropropane	ND		1.0	0.66	ug/L			01/25/20 15:16	1
Bromodichloromethane	ND		1.0	0.64	ug/L			01/25/20 15:16	1
cis-1,3-Dichloropropene	ND		1.0	0.59	ug/L			01/25/20 15:16	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	3.1	ug/L			01/25/20 15:16	1
Toluene	ND		1.0	0.46	ug/L			01/25/20 15:16	1
trans-1,3-Dichloropropene	ND		1.0	0.58	ug/L			01/25/20 15:16	1
1,1,2-Trichloroethane	ND		1.0	0.45	ug/L			01/25/20 15:16	1
Tetrachloroethene	ND		1.0	0.47	ug/L			01/25/20 15:16	1
2-Hexanone	ND		5.0	3.3	ug/L			01/25/20 15:16	1
Dibromochloromethane	ND		1.0	0.84	ug/L			01/25/20 15:16	1
1,2-Dibromoethane (EDB)	ND		1.0	0.50	ug/L			01/25/20 15:16	1
Chlorobenzene	ND		1.0	0.50	ug/L			01/25/20 15:16	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.57	ug/L			01/25/20 15:16	1
Ethylbenzene	ND		1.0	0.51	ug/L			01/25/20 15:16	1
Xylenes, Total	ND		2.0	0.89	ug/L			01/25/20 15:16	1
Styrene	ND		1.0	0.47	ug/L			01/25/20 15:16	1
Bromoform	ND		1.0	0.98	ug/L			01/25/20 15:16	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.60	ug/L			01/25/20 15:16	1
Acrylonitrile	ND		20	7.8	ug/L			01/25/20 15:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		70 - 150		01/25/20 15:16	1
Toluene-d8 (Surr)	83		78 - 128		01/25/20 15:16	1
4-Bromofluorobenzene (Surr)	66		64 - 123		01/25/20 15:16	1
Dibromofluoromethane (Surr)	89		75 - 147		01/25/20 15:16	1

# Client Sample Results

Client: Groundwater Sciences Corporation  
 Project/Site: fYNOP

Job ID: 180-101459-1

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

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

**Date Collected: 01/23/20 11:05**

**Date Received: 01/24/20 09:00**

**Lab Sample ID: 180-101459-5**

**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND	^c	1.0	0.90	ug/L			01/25/20 15:43	1
Vinyl chloride	ND	^c	1.0	0.88	ug/L			01/25/20 15:43	1
Bromomethane	ND	^c	1.0	0.89	ug/L			01/25/20 15:43	1
Chloroethane	ND	^c	1.0	0.90	ug/L			01/25/20 15:43	1
1,1-Dichloroethene	ND		1.0	0.55	ug/L			01/25/20 15:43	1
Acetone	ND		5.0	3.4	ug/L			01/25/20 15:43	1
Carbon disulfide	ND		1.0	0.88	ug/L			01/25/20 15:43	1
Methylene Chloride	ND		1.0	0.89	ug/L			01/25/20 15:43	1
trans-1,2-Dichloroethene	ND		1.0	0.67	ug/L			01/25/20 15:43	1
Methyl tert-butyl ether	ND		1.0	0.59	ug/L			01/25/20 15:43	1
1,1-Dichloroethane	ND		1.0	0.63	ug/L			01/25/20 15:43	1
<b>cis-1,2-Dichloroethene</b>	<b>0.99</b>	<b>J</b>	1.0	0.71	ug/L			01/25/20 15:43	1
Bromochloromethane	ND		1.0	0.63	ug/L			01/25/20 15:43	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			01/25/20 15:43	1
Chloroform	ND		1.0	0.60	ug/L			01/25/20 15:43	1
1,1,1-Trichloroethane	ND		1.0	0.60	ug/L			01/25/20 15:43	1
Carbon tetrachloride	ND		1.0	0.88	ug/L			01/25/20 15:43	1
Benzene	ND		1.0	0.60	ug/L			01/25/20 15:43	1
1,2-Dichloroethane	ND		1.0	0.57	ug/L			01/25/20 15:43	1
<b>Trichloroethene</b>	<b>1.2</b>		1.0	0.69	ug/L			01/25/20 15:43	1
1,2-Dichloropropane	ND		1.0	0.66	ug/L			01/25/20 15:43	1
Bromodichloromethane	ND		1.0	0.64	ug/L			01/25/20 15:43	1
cis-1,3-Dichloropropene	ND		1.0	0.59	ug/L			01/25/20 15:43	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	3.1	ug/L			01/25/20 15:43	1
Toluene	ND		1.0	0.46	ug/L			01/25/20 15:43	1
trans-1,3-Dichloropropene	ND		1.0	0.58	ug/L			01/25/20 15:43	1
1,1,2-Trichloroethane	ND		1.0	0.45	ug/L			01/25/20 15:43	1
<b>Tetrachloroethene</b>	<b>3.1</b>		1.0	0.47	ug/L			01/25/20 15:43	1
2-Hexanone	ND		5.0	3.3	ug/L			01/25/20 15:43	1
Dibromochloromethane	ND		1.0	0.84	ug/L			01/25/20 15:43	1
1,2-Dibromoethane (EDB)	ND		1.0	0.50	ug/L			01/25/20 15:43	1
Chlorobenzene	ND		1.0	0.50	ug/L			01/25/20 15:43	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.57	ug/L			01/25/20 15:43	1
Ethylbenzene	ND		1.0	0.51	ug/L			01/25/20 15:43	1
Xylenes, Total	ND		2.0	0.89	ug/L			01/25/20 15:43	1
Styrene	ND		1.0	0.47	ug/L			01/25/20 15:43	1
Bromoform	ND		1.0	0.98	ug/L			01/25/20 15:43	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.60	ug/L			01/25/20 15:43	1
Acrylonitrile	ND		20	7.8	ug/L			01/25/20 15:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		70 - 150		01/25/20 15:43	1
Toluene-d8 (Surr)	100		78 - 128		01/25/20 15:43	1
4-Bromofluorobenzene (Surr)	81		64 - 123		01/25/20 15:43	1
Dibromofluoromethane (Surr)	106		75 - 147		01/25/20 15:43	1

# Client Sample Results

Client: Groundwater Sciences Corporation  
 Project/Site: fYNOP

Job ID: 180-101459-1

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

**Client Sample ID: HD-COD-SW-6-0/1-0**

**Date Collected: 01/23/20 11:35**

**Date Received: 01/24/20 09:00**

**Lab Sample ID: 180-101459-6**

**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND	^c	1.0	0.90	ug/L			01/25/20 16:10	1
Vinyl chloride	ND	^c	1.0	0.88	ug/L			01/25/20 16:10	1
Bromomethane	ND	^c	1.0	0.89	ug/L			01/25/20 16:10	1
Chloroethane	ND	^c	1.0	0.90	ug/L			01/25/20 16:10	1
1,1-Dichloroethene	ND		1.0	0.55	ug/L			01/25/20 16:10	1
Acetone	ND		5.0	3.4	ug/L			01/25/20 16:10	1
Carbon disulfide	ND		1.0	0.88	ug/L			01/25/20 16:10	1
Methylene Chloride	ND		1.0	0.89	ug/L			01/25/20 16:10	1
trans-1,2-Dichloroethene	ND		1.0	0.67	ug/L			01/25/20 16:10	1
Methyl tert-butyl ether	ND		1.0	0.59	ug/L			01/25/20 16:10	1
1,1-Dichloroethane	ND		1.0	0.63	ug/L			01/25/20 16:10	1
cis-1,2-Dichloroethene	ND		1.0	0.71	ug/L			01/25/20 16:10	1
Bromochloromethane	ND		1.0	0.63	ug/L			01/25/20 16:10	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			01/25/20 16:10	1
Chloroform	ND		1.0	0.60	ug/L			01/25/20 16:10	1
1,1,1-Trichloroethane	ND		1.0	0.60	ug/L			01/25/20 16:10	1
Carbon tetrachloride	ND		1.0	0.88	ug/L			01/25/20 16:10	1
Benzene	ND		1.0	0.60	ug/L			01/25/20 16:10	1
1,2-Dichloroethane	ND		1.0	0.57	ug/L			01/25/20 16:10	1
Trichloroethene	ND		1.0	0.69	ug/L			01/25/20 16:10	1
1,2-Dichloropropane	ND		1.0	0.66	ug/L			01/25/20 16:10	1
Bromodichloromethane	ND		1.0	0.64	ug/L			01/25/20 16:10	1
cis-1,3-Dichloropropene	ND		1.0	0.59	ug/L			01/25/20 16:10	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	3.1	ug/L			01/25/20 16:10	1
Toluene	ND		1.0	0.46	ug/L			01/25/20 16:10	1
trans-1,3-Dichloropropene	ND		1.0	0.58	ug/L			01/25/20 16:10	1
1,1,2-Trichloroethane	ND		1.0	0.45	ug/L			01/25/20 16:10	1
Tetrachloroethene	ND		1.0	0.47	ug/L			01/25/20 16:10	1
2-Hexanone	ND		5.0	3.3	ug/L			01/25/20 16:10	1
Dibromochloromethane	ND		1.0	0.84	ug/L			01/25/20 16:10	1
1,2-Dibromoethane (EDB)	ND		1.0	0.50	ug/L			01/25/20 16:10	1
Chlorobenzene	ND		1.0	0.50	ug/L			01/25/20 16:10	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.57	ug/L			01/25/20 16:10	1
Ethylbenzene	ND		1.0	0.51	ug/L			01/25/20 16:10	1
Xylenes, Total	ND		2.0	0.89	ug/L			01/25/20 16:10	1
Styrene	ND		1.0	0.47	ug/L			01/25/20 16:10	1
Bromoform	ND		1.0	0.98	ug/L			01/25/20 16:10	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.60	ug/L			01/25/20 16:10	1
Acrylonitrile	ND		20	7.8	ug/L			01/25/20 16:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	131		70 - 150		01/25/20 16:10	1
Toluene-d8 (Surr)	100		78 - 128		01/25/20 16:10	1
4-Bromofluorobenzene (Surr)	78		64 - 123		01/25/20 16:10	1
Dibromofluoromethane (Surr)	109		75 - 147		01/25/20 16:10	1



# Client Sample Results

Client: Groundwater Sciences Corporation  
 Project/Site: fYNOP

Job ID: 180-101459-1

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

**Client Sample ID: HD-COD-SW-26-0/1-0**

**Date Collected: 01/23/20 12:35**

**Date Received: 01/24/20 09:00**

**Lab Sample ID: 180-101459-7**

**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND	^c	1.0	0.90	ug/L			01/25/20 16:38	1
Vinyl chloride	ND	^c	1.0	0.88	ug/L			01/25/20 16:38	1
Bromomethane	ND	^c	1.0	0.89	ug/L			01/25/20 16:38	1
Chloroethane	ND	^c	1.0	0.90	ug/L			01/25/20 16:38	1
1,1-Dichloroethene	ND		1.0	0.55	ug/L			01/25/20 16:38	1
Acetone	ND		5.0	3.4	ug/L			01/25/20 16:38	1
Carbon disulfide	ND		1.0	0.88	ug/L			01/25/20 16:38	1
Methylene Chloride	ND		1.0	0.89	ug/L			01/25/20 16:38	1
trans-1,2-Dichloroethene	ND		1.0	0.67	ug/L			01/25/20 16:38	1
Methyl tert-butyl ether	ND		1.0	0.59	ug/L			01/25/20 16:38	1
1,1-Dichloroethane	ND		1.0	0.63	ug/L			01/25/20 16:38	1
cis-1,2-Dichloroethene	ND		1.0	0.71	ug/L			01/25/20 16:38	1
Bromochloromethane	ND		1.0	0.63	ug/L			01/25/20 16:38	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			01/25/20 16:38	1
Chloroform	ND		1.0	0.60	ug/L			01/25/20 16:38	1
1,1,1-Trichloroethane	ND		1.0	0.60	ug/L			01/25/20 16:38	1
Carbon tetrachloride	ND		1.0	0.88	ug/L			01/25/20 16:38	1
Benzene	ND		1.0	0.60	ug/L			01/25/20 16:38	1
1,2-Dichloroethane	ND		1.0	0.57	ug/L			01/25/20 16:38	1
Trichloroethene	ND		1.0	0.69	ug/L			01/25/20 16:38	1
1,2-Dichloropropane	ND		1.0	0.66	ug/L			01/25/20 16:38	1
Bromodichloromethane	ND		1.0	0.64	ug/L			01/25/20 16:38	1
cis-1,3-Dichloropropene	ND		1.0	0.59	ug/L			01/25/20 16:38	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	3.1	ug/L			01/25/20 16:38	1
Toluene	ND		1.0	0.46	ug/L			01/25/20 16:38	1
trans-1,3-Dichloropropene	ND		1.0	0.58	ug/L			01/25/20 16:38	1
1,1,2-Trichloroethane	ND		1.0	0.45	ug/L			01/25/20 16:38	1
<b>Tetrachloroethene</b>	<b>4.0</b>		1.0	0.47	ug/L			01/25/20 16:38	1
2-Hexanone	ND		5.0	3.3	ug/L			01/25/20 16:38	1
Dibromochloromethane	ND		1.0	0.84	ug/L			01/25/20 16:38	1
1,2-Dibromoethane (EDB)	ND		1.0	0.50	ug/L			01/25/20 16:38	1
Chlorobenzene	ND		1.0	0.50	ug/L			01/25/20 16:38	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.57	ug/L			01/25/20 16:38	1
Ethylbenzene	ND		1.0	0.51	ug/L			01/25/20 16:38	1
Xylenes, Total	ND		2.0	0.89	ug/L			01/25/20 16:38	1
Styrene	ND		1.0	0.47	ug/L			01/25/20 16:38	1
Bromoform	ND		1.0	0.98	ug/L			01/25/20 16:38	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.60	ug/L			01/25/20 16:38	1
Acrylonitrile	ND		20	7.8	ug/L			01/25/20 16:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		70 - 150		01/25/20 16:38	1
Toluene-d8 (Surr)	93		78 - 128		01/25/20 16:38	1
4-Bromofluorobenzene (Surr)	80		64 - 123		01/25/20 16:38	1
Dibromofluoromethane (Surr)	97		75 - 147		01/25/20 16:38	1

# Client Sample Results

Client: Groundwater Sciences Corporation  
 Project/Site: fYNOP

Job ID: 180-101459-1

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

**Client Sample ID: HD-COD-SW-7-0/1-0**

**Date Collected: 01/23/20 12:50**

**Date Received: 01/24/20 09:00**

**Lab Sample ID: 180-101459-8**

**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND	^c	1.0	0.90	ug/L			01/25/20 17:05	1
Vinyl chloride	ND	^c	1.0	0.88	ug/L			01/25/20 17:05	1
Bromomethane	ND	^c	1.0	0.89	ug/L			01/25/20 17:05	1
Chloroethane	ND	^c	1.0	0.90	ug/L			01/25/20 17:05	1
1,1-Dichloroethene	ND		1.0	0.55	ug/L			01/25/20 17:05	1
Acetone	ND		5.0	3.4	ug/L			01/25/20 17:05	1
Carbon disulfide	ND		1.0	0.88	ug/L			01/25/20 17:05	1
Methylene Chloride	ND		1.0	0.89	ug/L			01/25/20 17:05	1
trans-1,2-Dichloroethene	ND		1.0	0.67	ug/L			01/25/20 17:05	1
Methyl tert-butyl ether	ND		1.0	0.59	ug/L			01/25/20 17:05	1
1,1-Dichloroethane	ND		1.0	0.63	ug/L			01/25/20 17:05	1
cis-1,2-Dichloroethene	ND		1.0	0.71	ug/L			01/25/20 17:05	1
Bromochloromethane	ND		1.0	0.63	ug/L			01/25/20 17:05	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			01/25/20 17:05	1
Chloroform	ND		1.0	0.60	ug/L			01/25/20 17:05	1
1,1,1-Trichloroethane	ND		1.0	0.60	ug/L			01/25/20 17:05	1
Carbon tetrachloride	ND		1.0	0.88	ug/L			01/25/20 17:05	1
Benzene	ND		1.0	0.60	ug/L			01/25/20 17:05	1
1,2-Dichloroethane	ND		1.0	0.57	ug/L			01/25/20 17:05	1
Trichloroethene	ND		1.0	0.69	ug/L			01/25/20 17:05	1
1,2-Dichloropropane	ND		1.0	0.66	ug/L			01/25/20 17:05	1
Bromodichloromethane	ND		1.0	0.64	ug/L			01/25/20 17:05	1
cis-1,3-Dichloropropene	ND		1.0	0.59	ug/L			01/25/20 17:05	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	3.1	ug/L			01/25/20 17:05	1
Toluene	ND		1.0	0.46	ug/L			01/25/20 17:05	1
trans-1,3-Dichloropropene	ND		1.0	0.58	ug/L			01/25/20 17:05	1
1,1,2-Trichloroethane	ND		1.0	0.45	ug/L			01/25/20 17:05	1
Tetrachloroethene	ND		1.0	0.47	ug/L			01/25/20 17:05	1
2-Hexanone	ND		5.0	3.3	ug/L			01/25/20 17:05	1
Dibromochloromethane	ND		1.0	0.84	ug/L			01/25/20 17:05	1
1,2-Dibromoethane (EDB)	ND		1.0	0.50	ug/L			01/25/20 17:05	1
Chlorobenzene	ND		1.0	0.50	ug/L			01/25/20 17:05	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.57	ug/L			01/25/20 17:05	1
Ethylbenzene	ND		1.0	0.51	ug/L			01/25/20 17:05	1
Xylenes, Total	ND		2.0	0.89	ug/L			01/25/20 17:05	1
Styrene	ND		1.0	0.47	ug/L			01/25/20 17:05	1
Bromoform	ND		1.0	0.98	ug/L			01/25/20 17:05	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.60	ug/L			01/25/20 17:05	1
Acrylonitrile	ND		20	7.8	ug/L			01/25/20 17:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	123		70 - 150		01/25/20 17:05	1
Toluene-d8 (Surr)	97		78 - 128		01/25/20 17:05	1
4-Bromofluorobenzene (Surr)	81		64 - 123		01/25/20 17:05	1
Dibromofluoromethane (Surr)	114		75 - 147		01/25/20 17:05	1

# Client Sample Results

Client: Groundwater Sciences Corporation  
 Project/Site: fYNOP

Job ID: 180-101459-1

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

**Client Sample ID: HD-COD-SW-27-0/1-0**

**Date Collected: 01/23/20 13:05**

**Date Received: 01/24/20 09:00**

**Lab Sample ID: 180-101459-9**

**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND	^c	1.0	0.90	ug/L			01/25/20 17:32	1
Vinyl chloride	ND	^c	1.0	0.88	ug/L			01/25/20 17:32	1
Bromomethane	ND	^c	1.0	0.89	ug/L			01/25/20 17:32	1
Chloroethane	ND	^c	1.0	0.90	ug/L			01/25/20 17:32	1
1,1-Dichloroethene	ND		1.0	0.55	ug/L			01/25/20 17:32	1
Acetone	ND		5.0	3.4	ug/L			01/25/20 17:32	1
Carbon disulfide	ND		1.0	0.88	ug/L			01/25/20 17:32	1
Methylene Chloride	ND		1.0	0.89	ug/L			01/25/20 17:32	1
trans-1,2-Dichloroethene	ND		1.0	0.67	ug/L			01/25/20 17:32	1
Methyl tert-butyl ether	ND		1.0	0.59	ug/L			01/25/20 17:32	1
1,1-Dichloroethane	ND		1.0	0.63	ug/L			01/25/20 17:32	1
cis-1,2-Dichloroethene	ND		1.0	0.71	ug/L			01/25/20 17:32	1
Bromochloromethane	ND		1.0	0.63	ug/L			01/25/20 17:32	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			01/25/20 17:32	1
Chloroform	ND		1.0	0.60	ug/L			01/25/20 17:32	1
1,1,1-Trichloroethane	ND		1.0	0.60	ug/L			01/25/20 17:32	1
Carbon tetrachloride	ND		1.0	0.88	ug/L			01/25/20 17:32	1
Benzene	ND		1.0	0.60	ug/L			01/25/20 17:32	1
1,2-Dichloroethane	ND		1.0	0.57	ug/L			01/25/20 17:32	1
Trichloroethene	ND		1.0	0.69	ug/L			01/25/20 17:32	1
1,2-Dichloropropane	ND		1.0	0.66	ug/L			01/25/20 17:32	1
Bromodichloromethane	ND		1.0	0.64	ug/L			01/25/20 17:32	1
cis-1,3-Dichloropropene	ND		1.0	0.59	ug/L			01/25/20 17:32	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	3.1	ug/L			01/25/20 17:32	1
Toluene	ND		1.0	0.46	ug/L			01/25/20 17:32	1
trans-1,3-Dichloropropene	ND		1.0	0.58	ug/L			01/25/20 17:32	1
1,1,2-Trichloroethane	ND		1.0	0.45	ug/L			01/25/20 17:32	1
Tetrachloroethene	ND		1.0	0.47	ug/L			01/25/20 17:32	1
2-Hexanone	ND		5.0	3.3	ug/L			01/25/20 17:32	1
Dibromochloromethane	ND		1.0	0.84	ug/L			01/25/20 17:32	1
1,2-Dibromoethane (EDB)	ND		1.0	0.50	ug/L			01/25/20 17:32	1
Chlorobenzene	ND		1.0	0.50	ug/L			01/25/20 17:32	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.57	ug/L			01/25/20 17:32	1
Ethylbenzene	ND		1.0	0.51	ug/L			01/25/20 17:32	1
Xylenes, Total	ND		2.0	0.89	ug/L			01/25/20 17:32	1
Styrene	ND		1.0	0.47	ug/L			01/25/20 17:32	1
Bromoform	ND		1.0	0.98	ug/L			01/25/20 17:32	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.60	ug/L			01/25/20 17:32	1
Acrylonitrile	ND		20	7.8	ug/L			01/25/20 17:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		70 - 150		01/25/20 17:32	1
Toluene-d8 (Surr)	102		78 - 128		01/25/20 17:32	1
4-Bromofluorobenzene (Surr)	79		64 - 123		01/25/20 17:32	1
Dibromofluoromethane (Surr)	101		75 - 147		01/25/20 17:32	1

# Client Sample Results

Client: Groundwater Sciences Corporation  
 Project/Site: fYNOP

Job ID: 180-101459-1

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

**Client Sample ID: HD-COD-SW-15-0/1-0**

**Date Collected: 01/23/20 13:15**

**Date Received: 01/24/20 09:00**

**Lab Sample ID: 180-101459-10**

**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND	^c	1.0	0.90	ug/L			01/25/20 13:27	1
Vinyl chloride	ND	^c	1.0	0.88	ug/L			01/25/20 13:27	1
Bromomethane	ND	^c	1.0	0.89	ug/L			01/25/20 13:27	1
Chloroethane	ND	^c	1.0	0.90	ug/L			01/25/20 13:27	1
1,1-Dichloroethene	ND	F1	1.0	0.55	ug/L			01/25/20 13:27	1
Acetone	ND		5.0	3.4	ug/L			01/25/20 13:27	1
Carbon disulfide	ND	F1	1.0	0.88	ug/L			01/25/20 13:27	1
Methylene Chloride	ND		1.0	0.89	ug/L			01/25/20 13:27	1
trans-1,2-Dichloroethene	ND	F1	1.0	0.67	ug/L			01/25/20 13:27	1
Methyl tert-butyl ether	ND	F1	1.0	0.59	ug/L			01/25/20 13:27	1
1,1-Dichloroethane	ND	F1	1.0	0.63	ug/L			01/25/20 13:27	1
<b>cis-1,2-Dichloroethene</b>	<b>0.87</b>	<b>J F1</b>	1.0	0.71	ug/L			01/25/20 13:27	1
Bromochloromethane	ND		1.0	0.63	ug/L			01/25/20 13:27	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			01/25/20 13:27	1
Chloroform	ND	F1 F2	1.0	0.60	ug/L			01/25/20 13:27	1
1,1,1-Trichloroethane	ND		1.0	0.60	ug/L			01/25/20 13:27	1
Carbon tetrachloride	ND		1.0	0.88	ug/L			01/25/20 13:27	1
Benzene	ND	F1	1.0	0.60	ug/L			01/25/20 13:27	1
1,2-Dichloroethane	ND		1.0	0.57	ug/L			01/25/20 13:27	1
<b>Trichloroethene</b>	<b>0.86</b>	<b>J</b>	1.0	0.69	ug/L			01/25/20 13:27	1
1,2-Dichloropropane	ND	F1	1.0	0.66	ug/L			01/25/20 13:27	1
Bromodichloromethane	ND		1.0	0.64	ug/L			01/25/20 13:27	1
cis-1,3-Dichloropropene	ND		1.0	0.59	ug/L			01/25/20 13:27	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	3.1	ug/L			01/25/20 13:27	1
Toluene	ND	F1	1.0	0.46	ug/L			01/25/20 13:27	1
trans-1,3-Dichloropropene	ND		1.0	0.58	ug/L			01/25/20 13:27	1
1,1,2-Trichloroethane	ND	F1	1.0	0.45	ug/L			01/25/20 13:27	1
<b>Tetrachloroethene</b>	<b>2.4</b>		1.0	0.47	ug/L			01/25/20 13:27	1
2-Hexanone	ND		5.0	3.3	ug/L			01/25/20 13:27	1
Dibromochloromethane	ND		1.0	0.84	ug/L			01/25/20 13:27	1
1,2-Dibromoethane (EDB)	ND		1.0	0.50	ug/L			01/25/20 13:27	1
Chlorobenzene	ND	F1	1.0	0.50	ug/L			01/25/20 13:27	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.57	ug/L			01/25/20 13:27	1
Ethylbenzene	ND	F1	1.0	0.51	ug/L			01/25/20 13:27	1
Xylenes, Total	ND	F1	2.0	0.89	ug/L			01/25/20 13:27	1
Styrene	ND	F1	1.0	0.47	ug/L			01/25/20 13:27	1
Bromoform	ND		1.0	0.98	ug/L			01/25/20 13:27	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.60	ug/L			01/25/20 13:27	1
Acrylonitrile	ND		20	7.8	ug/L			01/25/20 13:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		70 - 150		01/25/20 13:27	1
Toluene-d8 (Surr)	101		78 - 128		01/25/20 13:27	1
4-Bromofluorobenzene (Surr)	86		64 - 123		01/25/20 13:27	1
Dibromofluoromethane (Surr)	96		75 - 147		01/25/20 13:27	1

# Client Sample Results

Client: Groundwater Sciences Corporation  
 Project/Site: fYNOP

Job ID: 180-101459-1

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

**Client Sample ID: HD-QC1-0/1-1**

**Date Collected: 01/23/20 12:00**

**Date Received: 01/24/20 09:00**

**Lab Sample ID: 180-101459-11**

**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND	^c	1.0	0.90	ug/L			01/25/20 17:59	1
Vinyl chloride	ND	^c	1.0	0.88	ug/L			01/25/20 17:59	1
Bromomethane	ND	^c	1.0	0.89	ug/L			01/25/20 17:59	1
Chloroethane	ND	^c	1.0	0.90	ug/L			01/25/20 17:59	1
1,1-Dichloroethene	ND		1.0	0.55	ug/L			01/25/20 17:59	1
Acetone	ND		5.0	3.4	ug/L			01/25/20 17:59	1
Carbon disulfide	ND		1.0	0.88	ug/L			01/25/20 17:59	1
Methylene Chloride	ND		1.0	0.89	ug/L			01/25/20 17:59	1
trans-1,2-Dichloroethene	ND		1.0	0.67	ug/L			01/25/20 17:59	1
Methyl tert-butyl ether	ND		1.0	0.59	ug/L			01/25/20 17:59	1
1,1-Dichloroethane	ND		1.0	0.63	ug/L			01/25/20 17:59	1
cis-1,2-Dichloroethene	ND		1.0	0.71	ug/L			01/25/20 17:59	1
Bromochloromethane	ND		1.0	0.63	ug/L			01/25/20 17:59	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			01/25/20 17:59	1
Chloroform	ND		1.0	0.60	ug/L			01/25/20 17:59	1
1,1,1-Trichloroethane	ND		1.0	0.60	ug/L			01/25/20 17:59	1
Carbon tetrachloride	ND		1.0	0.88	ug/L			01/25/20 17:59	1
Benzene	ND		1.0	0.60	ug/L			01/25/20 17:59	1
1,2-Dichloroethane	ND		1.0	0.57	ug/L			01/25/20 17:59	1
Trichloroethene	ND		1.0	0.69	ug/L			01/25/20 17:59	1
1,2-Dichloropropane	ND		1.0	0.66	ug/L			01/25/20 17:59	1
Bromodichloromethane	ND		1.0	0.64	ug/L			01/25/20 17:59	1
cis-1,3-Dichloropropene	ND		1.0	0.59	ug/L			01/25/20 17:59	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	3.1	ug/L			01/25/20 17:59	1
Toluene	ND		1.0	0.46	ug/L			01/25/20 17:59	1
trans-1,3-Dichloropropene	ND		1.0	0.58	ug/L			01/25/20 17:59	1
1,1,2-Trichloroethane	ND		1.0	0.45	ug/L			01/25/20 17:59	1
<b>Tetrachloroethene</b>	<b>4.0</b>		1.0	0.47	ug/L			01/25/20 17:59	1
2-Hexanone	ND		5.0	3.3	ug/L			01/25/20 17:59	1
Dibromochloromethane	ND		1.0	0.84	ug/L			01/25/20 17:59	1
1,2-Dibromoethane (EDB)	ND		1.0	0.50	ug/L			01/25/20 17:59	1
Chlorobenzene	ND		1.0	0.50	ug/L			01/25/20 17:59	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.57	ug/L			01/25/20 17:59	1
Ethylbenzene	ND		1.0	0.51	ug/L			01/25/20 17:59	1
Xylenes, Total	ND		2.0	0.89	ug/L			01/25/20 17:59	1
Styrene	ND		1.0	0.47	ug/L			01/25/20 17:59	1
Bromoform	ND		1.0	0.98	ug/L			01/25/20 17:59	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.60	ug/L			01/25/20 17:59	1
Acrylonitrile	ND		20	7.8	ug/L			01/25/20 17:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		70 - 150		01/25/20 17:59	1
Toluene-d8 (Surr)	104		78 - 128		01/25/20 17:59	1
4-Bromofluorobenzene (Surr)	83		64 - 123		01/25/20 17:59	1
Dibromofluoromethane (Surr)	111		75 - 147		01/25/20 17:59	1

# Client Sample Results

Client: Groundwater Sciences Corporation  
 Project/Site: fYNOP

Job ID: 180-101459-1

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

**Client Sample ID: HD-COD-SW-9-0/1-0**

**Date Collected: 01/23/20 13:40**

**Date Received: 01/24/20 09:00**

**Lab Sample ID: 180-101459-12**

**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND	^c	1.0	0.90	ug/L			01/25/20 18:26	1
Vinyl chloride	ND	^c	1.0	0.88	ug/L			01/25/20 18:26	1
Bromomethane	ND	^c	1.0	0.89	ug/L			01/25/20 18:26	1
Chloroethane	ND	^c	1.0	0.90	ug/L			01/25/20 18:26	1
1,1-Dichloroethene	ND		1.0	0.55	ug/L			01/25/20 18:26	1
Acetone	ND		5.0	3.4	ug/L			01/25/20 18:26	1
Carbon disulfide	ND		1.0	0.88	ug/L			01/25/20 18:26	1
Methylene Chloride	ND		1.0	0.89	ug/L			01/25/20 18:26	1
trans-1,2-Dichloroethene	ND		1.0	0.67	ug/L			01/25/20 18:26	1
Methyl tert-butyl ether	ND		1.0	0.59	ug/L			01/25/20 18:26	1
1,1-Dichloroethane	ND		1.0	0.63	ug/L			01/25/20 18:26	1
cis-1,2-Dichloroethene	ND		1.0	0.71	ug/L			01/25/20 18:26	1
Bromochloromethane	ND		1.0	0.63	ug/L			01/25/20 18:26	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			01/25/20 18:26	1
Chloroform	ND		1.0	0.60	ug/L			01/25/20 18:26	1
1,1,1-Trichloroethane	ND		1.0	0.60	ug/L			01/25/20 18:26	1
Carbon tetrachloride	ND		1.0	0.88	ug/L			01/25/20 18:26	1
Benzene	ND		1.0	0.60	ug/L			01/25/20 18:26	1
1,2-Dichloroethane	ND		1.0	0.57	ug/L			01/25/20 18:26	1
Trichloroethene	ND		1.0	0.69	ug/L			01/25/20 18:26	1
1,2-Dichloropropane	ND		1.0	0.66	ug/L			01/25/20 18:26	1
Bromodichloromethane	ND		1.0	0.64	ug/L			01/25/20 18:26	1
cis-1,3-Dichloropropene	ND		1.0	0.59	ug/L			01/25/20 18:26	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	3.1	ug/L			01/25/20 18:26	1
Toluene	ND		1.0	0.46	ug/L			01/25/20 18:26	1
trans-1,3-Dichloropropene	ND		1.0	0.58	ug/L			01/25/20 18:26	1
1,1,2-Trichloroethane	ND		1.0	0.45	ug/L			01/25/20 18:26	1
Tetrachloroethene	ND		1.0	0.47	ug/L			01/25/20 18:26	1
2-Hexanone	ND		5.0	3.3	ug/L			01/25/20 18:26	1
Dibromochloromethane	ND		1.0	0.84	ug/L			01/25/20 18:26	1
1,2-Dibromoethane (EDB)	ND		1.0	0.50	ug/L			01/25/20 18:26	1
Chlorobenzene	ND		1.0	0.50	ug/L			01/25/20 18:26	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.57	ug/L			01/25/20 18:26	1
Ethylbenzene	ND		1.0	0.51	ug/L			01/25/20 18:26	1
Xylenes, Total	ND		2.0	0.89	ug/L			01/25/20 18:26	1
Styrene	ND		1.0	0.47	ug/L			01/25/20 18:26	1
Bromoform	ND		1.0	0.98	ug/L			01/25/20 18:26	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.60	ug/L			01/25/20 18:26	1
Acrylonitrile	ND		20	7.8	ug/L			01/25/20 18:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	124		70 - 150		01/25/20 18:26	1
Toluene-d8 (Surr)	97		78 - 128		01/25/20 18:26	1
4-Bromofluorobenzene (Surr)	76		64 - 123		01/25/20 18:26	1
Dibromofluoromethane (Surr)	119		75 - 147		01/25/20 18:26	1

# Client Sample Results

Client: Groundwater Sciences Corporation  
 Project/Site: fYNOP

Job ID: 180-101459-1

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

**Client Sample ID: HD-COD-SW-28-0/1-0**

**Date Collected: 01/23/20 14:05**

**Date Received: 01/24/20 09:00**

**Lab Sample ID: 180-101459-13**

**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND	^c	1.0	0.90	ug/L			01/25/20 18:54	1
Vinyl chloride	ND	^c	1.0	0.88	ug/L			01/25/20 18:54	1
Bromomethane	ND	^c	1.0	0.89	ug/L			01/25/20 18:54	1
Chloroethane	ND	^c	1.0	0.90	ug/L			01/25/20 18:54	1
1,1-Dichloroethene	ND		1.0	0.55	ug/L			01/25/20 18:54	1
Acetone	ND		5.0	3.4	ug/L			01/25/20 18:54	1
Carbon disulfide	ND		1.0	0.88	ug/L			01/25/20 18:54	1
Methylene Chloride	ND		1.0	0.89	ug/L			01/25/20 18:54	1
trans-1,2-Dichloroethene	ND		1.0	0.67	ug/L			01/25/20 18:54	1
Methyl tert-butyl ether	ND		1.0	0.59	ug/L			01/25/20 18:54	1
1,1-Dichloroethane	ND		1.0	0.63	ug/L			01/25/20 18:54	1
cis-1,2-Dichloroethene	ND		1.0	0.71	ug/L			01/25/20 18:54	1
Bromochloromethane	ND		1.0	0.63	ug/L			01/25/20 18:54	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			01/25/20 18:54	1
Chloroform	ND		1.0	0.60	ug/L			01/25/20 18:54	1
1,1,1-Trichloroethane	ND		1.0	0.60	ug/L			01/25/20 18:54	1
Carbon tetrachloride	ND		1.0	0.88	ug/L			01/25/20 18:54	1
Benzene	ND		1.0	0.60	ug/L			01/25/20 18:54	1
1,2-Dichloroethane	ND		1.0	0.57	ug/L			01/25/20 18:54	1
Trichloroethene	ND		1.0	0.69	ug/L			01/25/20 18:54	1
1,2-Dichloropropane	ND		1.0	0.66	ug/L			01/25/20 18:54	1
Bromodichloromethane	ND		1.0	0.64	ug/L			01/25/20 18:54	1
cis-1,3-Dichloropropene	ND		1.0	0.59	ug/L			01/25/20 18:54	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	3.1	ug/L			01/25/20 18:54	1
Toluene	ND		1.0	0.46	ug/L			01/25/20 18:54	1
trans-1,3-Dichloropropene	ND		1.0	0.58	ug/L			01/25/20 18:54	1
1,1,2-Trichloroethane	ND		1.0	0.45	ug/L			01/25/20 18:54	1
Tetrachloroethene	ND		1.0	0.47	ug/L			01/25/20 18:54	1
2-Hexanone	ND		5.0	3.3	ug/L			01/25/20 18:54	1
Dibromochloromethane	ND		1.0	0.84	ug/L			01/25/20 18:54	1
1,2-Dibromoethane (EDB)	ND		1.0	0.50	ug/L			01/25/20 18:54	1
Chlorobenzene	ND		1.0	0.50	ug/L			01/25/20 18:54	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.57	ug/L			01/25/20 18:54	1
Ethylbenzene	ND		1.0	0.51	ug/L			01/25/20 18:54	1
Xylenes, Total	ND		2.0	0.89	ug/L			01/25/20 18:54	1
Styrene	ND		1.0	0.47	ug/L			01/25/20 18:54	1
Bromoform	ND		1.0	0.98	ug/L			01/25/20 18:54	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.60	ug/L			01/25/20 18:54	1
Acrylonitrile	ND		20	7.8	ug/L			01/25/20 18:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	121		70 - 150		01/25/20 18:54	1
Toluene-d8 (Surr)	93		78 - 128		01/25/20 18:54	1
4-Bromofluorobenzene (Surr)	80		64 - 123		01/25/20 18:54	1
Dibromofluoromethane (Surr)	105		75 - 147		01/25/20 18:54	1



# Client Sample Results

Client: Groundwater Sciences Corporation  
 Project/Site: fYNOP

Job ID: 180-101459-1

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

**Client Sample ID: HD-QC1-0/1-2**  
**Date Collected: 01/23/20 00:00**  
**Date Received: 01/24/20 09:00**

**Lab Sample ID: 180-101459-14**  
**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND	^c	1.0	0.90	ug/L			01/25/20 19:21	1
Vinyl chloride	ND	^c	1.0	0.88	ug/L			01/25/20 19:21	1
Bromomethane	ND	^c	1.0	0.89	ug/L			01/25/20 19:21	1
Chloroethane	ND	^c	1.0	0.90	ug/L			01/25/20 19:21	1
1,1-Dichloroethene	ND		1.0	0.55	ug/L			01/25/20 19:21	1
Acetone	ND		5.0	3.4	ug/L			01/25/20 19:21	1
Carbon disulfide	ND		1.0	0.88	ug/L			01/25/20 19:21	1
Methylene Chloride	ND		1.0	0.89	ug/L			01/25/20 19:21	1
trans-1,2-Dichloroethene	ND		1.0	0.67	ug/L			01/25/20 19:21	1
Methyl tert-butyl ether	ND		1.0	0.59	ug/L			01/25/20 19:21	1
1,1-Dichloroethane	ND		1.0	0.63	ug/L			01/25/20 19:21	1
cis-1,2-Dichloroethene	ND		1.0	0.71	ug/L			01/25/20 19:21	1
Bromochloromethane	ND		1.0	0.63	ug/L			01/25/20 19:21	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			01/25/20 19:21	1
Chloroform	ND		1.0	0.60	ug/L			01/25/20 19:21	1
1,1,1-Trichloroethane	ND		1.0	0.60	ug/L			01/25/20 19:21	1
Carbon tetrachloride	ND		1.0	0.88	ug/L			01/25/20 19:21	1
Benzene	ND		1.0	0.60	ug/L			01/25/20 19:21	1
1,2-Dichloroethane	ND		1.0	0.57	ug/L			01/25/20 19:21	1
Trichloroethene	ND		1.0	0.69	ug/L			01/25/20 19:21	1
1,2-Dichloropropane	ND		1.0	0.66	ug/L			01/25/20 19:21	1
Bromodichloromethane	ND		1.0	0.64	ug/L			01/25/20 19:21	1
cis-1,3-Dichloropropene	ND		1.0	0.59	ug/L			01/25/20 19:21	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	3.1	ug/L			01/25/20 19:21	1
Toluene	ND		1.0	0.46	ug/L			01/25/20 19:21	1
trans-1,3-Dichloropropene	ND		1.0	0.58	ug/L			01/25/20 19:21	1
1,1,2-Trichloroethane	ND		1.0	0.45	ug/L			01/25/20 19:21	1
Tetrachloroethene	ND		1.0	0.47	ug/L			01/25/20 19:21	1
2-Hexanone	ND		5.0	3.3	ug/L			01/25/20 19:21	1
Dibromochloromethane	ND		1.0	0.84	ug/L			01/25/20 19:21	1
1,2-Dibromoethane (EDB)	ND		1.0	0.50	ug/L			01/25/20 19:21	1
Chlorobenzene	ND		1.0	0.50	ug/L			01/25/20 19:21	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.57	ug/L			01/25/20 19:21	1
Ethylbenzene	ND		1.0	0.51	ug/L			01/25/20 19:21	1
Xylenes, Total	ND		2.0	0.89	ug/L			01/25/20 19:21	1
Styrene	ND		1.0	0.47	ug/L			01/25/20 19:21	1
Bromoform	ND		1.0	0.98	ug/L			01/25/20 19:21	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.60	ug/L			01/25/20 19:21	1
Acrylonitrile	ND		20	7.8	ug/L			01/25/20 19:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	130		70 - 150		01/25/20 19:21	1
Toluene-d8 (Surr)	90		78 - 128		01/25/20 19:21	1
4-Bromofluorobenzene (Surr)	76		64 - 123		01/25/20 19:21	1
Dibromofluoromethane (Surr)	119		75 - 147		01/25/20 19:21	1



## Default Detection Limits

Client: Groundwater Sciences Corporation  
 Project/Site: fYNOP

Job ID: 180-101459-1

### 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: 180-101459-1

## 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)
180-101459-1	HD-COD-SW-29-0/1-0	113	101	79	101
180-101459-2	HD-COD-SW-8-0/1-0	107	100	77	95
180-101459-3	HD-COD-SW-13-0/1-0	110	89	76	99
180-101459-4	HD-COD-SW-16-0/1-0	96	83	66	89
180-101459-5	HD-COD-SW-17-0/1-0	115	100	81	106
180-101459-6	HD-COD-SW-6-0/1-0	131	100	78	109
180-101459-7	HD-COD-SW-26-0/1-0	109	93	80	97
180-101459-8	HD-COD-SW-7-0/1-0	123	97	81	114
180-101459-9	HD-COD-SW-27-0/1-0	119	102	79	101
180-101459-10	HD-COD-SW-15-0/1-0	104	101	86	96
180-101459-10 MS	HD-COD-SW-15-0/1-0	107	105	90	100
180-101459-10 MSD	HD-COD-SW-15-0/1-0	124	109	101	116
180-101459-11	HD-QC1-0/1-1	117	104	83	111
180-101459-12	HD-COD-SW-9-0/1-0	124	97	76	119
180-101459-13	HD-COD-SW-28-0/1-0	121	93	80	105
180-101459-14	HD-QC1-0/1-2	130	90	76	119
LCS 180-304996/4	Lab Control Sample	110	101	99	105
MB 180-304996/6	Method Blank	113	98	84	101

### 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: 180-101459-1

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

**Lab Sample ID: MB 180-304996/6**  
**Matrix: Water**  
**Analysis Batch: 304996**

**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			01/25/20 12:53	1
Vinyl chloride	ND		1.0	0.88	ug/L			01/25/20 12:53	1
Bromomethane	ND		1.0	0.89	ug/L			01/25/20 12:53	1
Chloroethane	ND		1.0	0.90	ug/L			01/25/20 12:53	1
1,1-Dichloroethene	ND		1.0	0.55	ug/L			01/25/20 12:53	1
Acetone	ND		5.0	3.4	ug/L			01/25/20 12:53	1
Carbon disulfide	ND		1.0	0.88	ug/L			01/25/20 12:53	1
Methylene Chloride	ND		1.0	0.89	ug/L			01/25/20 12:53	1
trans-1,2-Dichloroethene	ND		1.0	0.67	ug/L			01/25/20 12:53	1
Methyl tert-butyl ether	ND		1.0	0.59	ug/L			01/25/20 12:53	1
1,1-Dichloroethane	ND		1.0	0.63	ug/L			01/25/20 12:53	1
cis-1,2-Dichloroethene	ND		1.0	0.71	ug/L			01/25/20 12:53	1
Bromochloromethane	ND		1.0	0.63	ug/L			01/25/20 12:53	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			01/25/20 12:53	1
Chloroform	ND		1.0	0.60	ug/L			01/25/20 12:53	1
1,1,1-Trichloroethane	ND		1.0	0.60	ug/L			01/25/20 12:53	1
Carbon tetrachloride	ND		1.0	0.88	ug/L			01/25/20 12:53	1
Benzene	ND		1.0	0.60	ug/L			01/25/20 12:53	1
1,2-Dichloroethane	ND		1.0	0.57	ug/L			01/25/20 12:53	1
Trichloroethene	ND		1.0	0.69	ug/L			01/25/20 12:53	1
1,2-Dichloropropane	ND		1.0	0.66	ug/L			01/25/20 12:53	1
Bromodichloromethane	ND		1.0	0.64	ug/L			01/25/20 12:53	1
cis-1,3-Dichloropropene	ND		1.0	0.59	ug/L			01/25/20 12:53	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	3.1	ug/L			01/25/20 12:53	1
Toluene	ND		1.0	0.46	ug/L			01/25/20 12:53	1
trans-1,3-Dichloropropene	ND		1.0	0.58	ug/L			01/25/20 12:53	1
1,1,2-Trichloroethane	ND		1.0	0.45	ug/L			01/25/20 12:53	1
Tetrachloroethene	ND		1.0	0.47	ug/L			01/25/20 12:53	1
2-Hexanone	ND		5.0	3.3	ug/L			01/25/20 12:53	1
Dibromochloromethane	ND		1.0	0.84	ug/L			01/25/20 12:53	1
1,2-Dibromoethane (EDB)	ND		1.0	0.50	ug/L			01/25/20 12:53	1
Chlorobenzene	ND		1.0	0.50	ug/L			01/25/20 12:53	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.57	ug/L			01/25/20 12:53	1
Ethylbenzene	ND		1.0	0.51	ug/L			01/25/20 12:53	1
Xylenes, Total	ND		2.0	0.89	ug/L			01/25/20 12:53	1
Styrene	ND		1.0	0.47	ug/L			01/25/20 12:53	1
Bromoform	ND		1.0	0.98	ug/L			01/25/20 12:53	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.60	ug/L			01/25/20 12:53	1
Acrylonitrile	ND		20	7.8	ug/L			01/25/20 12:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		70 - 150		01/25/20 12:53	1
Toluene-d8 (Surr)	98		78 - 128		01/25/20 12:53	1
4-Bromofluorobenzene (Surr)	84		64 - 123		01/25/20 12:53	1
Dibromofluoromethane (Surr)	101		75 - 147		01/25/20 12:53	1

# QC Sample Results

Client: Groundwater Sciences Corporation  
 Project/Site: fYNOP

Job ID: 180-101459-1

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

**Lab Sample ID: LCS 180-304996/4**

**Matrix: Water**

**Analysis Batch: 304996**

**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	14.0		ug/L		140	37 - 150
Vinyl chloride	10.0	13.6		ug/L		136	50 - 150
Bromomethane	10.0	12.4		ug/L		124	35 - 150
Chloroethane	10.0	13.1		ug/L		131	52 - 150
1,1-Dichloroethene	10.0	11.8		ug/L		118	79 - 132
Acetone	20.0	22.5		ug/L		113	37 - 150
Carbon disulfide	10.0	11.5		ug/L		115	66 - 134
Methylene Chloride	10.0	10.6		ug/L		106	72 - 131
trans-1,2-Dichloroethene	10.0	10.9		ug/L		109	81 - 126
Methyl tert-butyl ether	10.0	11.3		ug/L		113	65 - 125
1,1-Dichloroethane	10.0	11.3		ug/L		113	70 - 127
cis-1,2-Dichloroethene	10.0	10.6		ug/L		106	79 - 119
Bromochloromethane	10.0	10.6		ug/L		106	74 - 124
2-Butanone (MEK)	20.0	23.7		ug/L		119	35 - 150
Chloroform	10.0	10.7		ug/L		107	75 - 126
1,1,1-Trichloroethane	10.0	9.96		ug/L		100	63 - 142
Carbon tetrachloride	10.0	11.7		ug/L		117	55 - 150
Benzene	10.0	10.9		ug/L		109	72 - 127
1,2-Dichloroethane	10.0	11.5		ug/L		115	60 - 138
Trichloroethene	10.0	10.6		ug/L		106	81 - 121
1,2-Dichloropropane	10.0	11.1		ug/L		111	67 - 124
Bromodichloromethane	10.0	10.7		ug/L		107	67 - 131
cis-1,3-Dichloropropene	10.0	10.5		ug/L		105	69 - 122
4-Methyl-2-pentanone (MIBK)	20.0	21.6		ug/L		108	19 - 150
Toluene	10.0	10.5		ug/L		105	73 - 123
trans-1,3-Dichloropropene	10.0	10.5		ug/L		105	61 - 122
1,1,2-Trichloroethane	10.0	10.7		ug/L		107	72 - 120
Tetrachloroethene	10.0	10.3		ug/L		103	69 - 134
2-Hexanone	20.0	22.2		ug/L		111	24 - 150
Dibromochloromethane	10.0	10.3		ug/L		103	59 - 134
1,2-Dibromoethane (EDB)	10.0	10.9		ug/L		109	65 - 129
Chlorobenzene	10.0	10.4		ug/L		104	76 - 119
1,1,1,2-Tetrachloroethane	10.0	10.7		ug/L		107	65 - 132
Ethylbenzene	10.0	10.7		ug/L		107	76 - 118
Xylenes, Total	20.0	21.4		ug/L		107	76 - 116
Styrene	10.0	10.6		ug/L		106	74 - 118
Bromoform	10.0	11.4		ug/L		114	50 - 146
1,1,2,2-Tetrachloroethane	10.0	12.0		ug/L		120	57 - 135
Acrylonitrile	100	122		ug/L		122	43 - 149

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>1,2-Dichloroethane-d4 (Surr)</i>	110		70 - 150
<i>Toluene-d8 (Surr)</i>	101		78 - 128
<i>4-Bromofluorobenzene (Surr)</i>	99		64 - 123
<i>Dibromofluoromethane (Surr)</i>	105		75 - 147

# QC Sample Results

Client: Groundwater Sciences Corporation  
 Project/Site: fYNOP

Job ID: 180-101459-1

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

**Lab Sample ID: 180-101459-10 MS**

**Matrix: Water**

**Analysis Batch: 304996**

**Client Sample ID: HD-COD-SW-15-0/1-0**

**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
Chloromethane	ND	^c	10.0	13.4		ug/L		134	37 - 150
Vinyl chloride	ND	^c	10.0	12.7		ug/L		127	50 - 150
Bromomethane	ND	^c	10.0	12.4		ug/L		124	35 - 150
Chloroethane	ND	^c	10.0	12.6		ug/L		126	52 - 150
1,1-Dichloroethene	ND	F1	10.0	11.1		ug/L		111	79 - 132
Acetone	ND		20.0	13.2		ug/L		66	37 - 150
Carbon disulfide	ND	F1	10.0	12.0		ug/L		120	66 - 134
Methylene Chloride	ND		10.0	11.0		ug/L		110	72 - 131
trans-1,2-Dichloroethene	ND	F1	10.0	11.4		ug/L		114	81 - 126
Methyl tert-butyl ether	ND	F1	10.0	10.6		ug/L		106	65 - 125
1,1-Dichloroethane	ND	F1	10.0	12.4		ug/L		124	70 - 127
cis-1,2-Dichloroethene	0.87	J F1	10.0	11.3		ug/L		105	79 - 119
Bromochloromethane	ND		10.0	9.88		ug/L		99	74 - 124
2-Butanone (MEK)	ND		20.0	16.9		ug/L		85	35 - 150
Chloroform	ND	F1 F2	10.0	10.0		ug/L		100	75 - 126
1,1,1-Trichloroethane	ND		10.0	10.0		ug/L		100	63 - 142
Carbon tetrachloride	ND		10.0	10.7		ug/L		107	55 - 150
Benzene	ND	F1	10.0	10.9		ug/L		109	72 - 127
1,2-Dichloroethane	ND		10.0	11.0		ug/L		110	60 - 138
Trichloroethene	0.86	J	10.0	11.7		ug/L		108	81 - 121
1,2-Dichloropropane	ND	F1	10.0	12.2		ug/L		122	67 - 124
Bromodichloromethane	ND		10.0	10.0		ug/L		100	67 - 131
cis-1,3-Dichloropropene	ND		10.0	9.14		ug/L		91	69 - 122
4-Methyl-2-pentanone (MIBK)	ND		20.0	20.5		ug/L		102	19 - 150
Toluene	ND	F1	10.0	11.0		ug/L		110	73 - 123
trans-1,3-Dichloropropene	ND		10.0	9.82		ug/L		98	61 - 122
1,1,2-Trichloroethane	ND	F1	10.0	10.7		ug/L		107	72 - 120
Tetrachloroethene	2.4		10.0	12.5		ug/L		101	69 - 134
2-Hexanone	ND		20.0	18.1		ug/L		90	24 - 150
Dibromochloromethane	ND		10.0	9.87		ug/L		99	59 - 134
1,2-Dibromoethane (EDB)	ND		10.0	10.5		ug/L		105	65 - 129
Chlorobenzene	ND	F1	10.0	10.2		ug/L		102	76 - 119
1,1,1,2-Tetrachloroethane	ND		10.0	10.4		ug/L		104	65 - 132
Ethylbenzene	ND	F1	10.0	10.3		ug/L		103	76 - 118
Xylenes, Total	ND	F1	20.0	20.9		ug/L		104	76 - 116
Styrene	ND	F1	10.0	9.94		ug/L		99	74 - 118
Bromoform	ND		10.0	9.47		ug/L		95	50 - 146
1,1,2,2-Tetrachloroethane	ND		10.0	11.0		ug/L		110	57 - 135
Acrylonitrile	ND		100	123		ug/L		123	43 - 149

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		70 - 150
Toluene-d8 (Surr)	105		78 - 128
4-Bromofluorobenzene (Surr)	90		64 - 123
Dibromofluoromethane (Surr)	100		75 - 147

# QC Sample Results

Client: Groundwater Sciences Corporation  
Project/Site: fYNOP

Job ID: 180-101459-1

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

**Lab Sample ID: 180-101459-10 MSD**

**Matrix: Water**

**Analysis Batch: 304996**

**Client Sample ID: HD-COD-SW-15-0/1-0**

**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		
Chloromethane	ND	^c	10.0	14.6		ug/L		146	37 - 150	8	35
Vinyl chloride	ND	^c	10.0	14.8		ug/L		148	50 - 150	15	31
Bromomethane	ND	^c	10.0	12.5		ug/L		125	35 - 150	1	35
Chloroethane	ND	^c	10.0	14.1		ug/L		141	52 - 150	11	31
1,1-Dichloroethene	ND	F1	10.0	13.4	F1	ug/L		134	79 - 132	19	29
Acetone	ND		20.0	14.5		ug/L		73	37 - 150	9	35
Carbon disulfide	ND	F1	10.0	13.9	F1	ug/L		139	66 - 134	15	31
Methylene Chloride	ND		10.0	12.0		ug/L		120	72 - 131	9	29
trans-1,2-Dichloroethene	ND	F1	10.0	13.1	F1	ug/L		131	81 - 126	14	27
Methyl tert-butyl ether	ND	F1	10.0	13.0	F1	ug/L		130	65 - 125	20	28
1,1-Dichloroethane	ND	F1	10.0	13.5	F1	ug/L		135	70 - 127	9	27
cis-1,2-Dichloroethene	0.87	J F1	10.0	13.0	F1	ug/L		121	79 - 119	14	28
Bromochloromethane	ND		10.0	12.1		ug/L		121	74 - 124	20	27
2-Butanone (MEK)	ND		20.0	19.5		ug/L		97	35 - 150	14	34
Chloroform	ND	F1 F2	10.0	13.2	F1 F2	ug/L		132	75 - 126	27	26
1,1,1-Trichloroethane	ND		10.0	13.2		ug/L		132	63 - 142	27	28
Carbon tetrachloride	ND		10.0	13.0		ug/L		130	55 - 150	20	29
Benzene	ND	F1	10.0	14.4	F1	ug/L		144	72 - 127	27	27
1,2-Dichloroethane	ND		10.0	13.0		ug/L		130	60 - 138	16	26
Trichloroethene	0.86	J	10.0	12.4		ug/L		116	81 - 121	6	28
1,2-Dichloropropane	ND	F1	10.0	12.6	F1	ug/L		126	67 - 124	3	27
Bromodichloromethane	ND		10.0	11.4		ug/L		114	67 - 131	13	28
cis-1,3-Dichloropropene	ND		10.0	10.8		ug/L		108	69 - 122	17	29
4-Methyl-2-pentanone (MIBK)	ND		20.0	22.5		ug/L		113	19 - 150	10	33
Toluene	ND	F1	10.0	12.4	F1	ug/L		124	73 - 123	13	31
trans-1,3-Dichloropropene	ND		10.0	11.3		ug/L		113	61 - 122	14	30
1,1,2-Trichloroethane	ND	F1	10.0	12.1	F1	ug/L		121	72 - 120	11	27
Tetrachloroethene	2.4		10.0	14.2		ug/L		118	69 - 134	13	27
2-Hexanone	ND		20.0	18.2		ug/L		91	24 - 150	0	32
Dibromochloromethane	ND		10.0	11.4		ug/L		114	59 - 134	14	28
1,2-Dibromoethane (EDB)	ND		10.0	11.9		ug/L		119	65 - 129	12	27
Chlorobenzene	ND	F1	10.0	12.0	F1	ug/L		120	76 - 119	16	25
1,1,1,2-Tetrachloroethane	ND		10.0	11.8		ug/L		118	65 - 132	13	28
Ethylbenzene	ND	F1	10.0	12.0	F1	ug/L		120	76 - 118	15	27
Xylenes, Total	ND	F1	20.0	24.0	F1	ug/L		120	76 - 116	14	27
Styrene	ND	F1	10.0	12.0	F1	ug/L		120	74 - 118	19	27
Bromoform	ND		10.0	11.7		ug/L		117	50 - 146	21	30
1,1,1,2-Tetrachloroethane	ND		10.0	13.5		ug/L		135	57 - 135	20	29
Acrylonitrile	ND		100	140		ug/L		140	43 - 149	13	34

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	124		70 - 150
Toluene-d8 (Surr)	109		78 - 128
4-Bromofluorobenzene (Surr)	101		64 - 123
Dibromofluoromethane (Surr)	116		75 - 147

# QC Association Summary

Client: Groundwater Sciences Corporation  
Project/Site: fYNOP

Job ID: 180-101459-1

## GC/MS VOA

### Analysis Batch: 304996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-101459-1	HD-COD-SW-29-0/1-0	Total/NA	Water	EPA 8260C	
180-101459-2	HD-COD-SW-8-0/1-0	Total/NA	Water	EPA 8260C	
180-101459-3	HD-COD-SW-13-0/1-0	Total/NA	Water	EPA 8260C	
180-101459-4	HD-COD-SW-16-0/1-0	Total/NA	Water	EPA 8260C	
180-101459-5	HD-COD-SW-17-0/1-0	Total/NA	Water	EPA 8260C	
180-101459-6	HD-COD-SW-6-0/1-0	Total/NA	Water	EPA 8260C	
180-101459-7	HD-COD-SW-26-0/1-0	Total/NA	Water	EPA 8260C	
180-101459-8	HD-COD-SW-7-0/1-0	Total/NA	Water	EPA 8260C	
180-101459-9	HD-COD-SW-27-0/1-0	Total/NA	Water	EPA 8260C	
180-101459-10	HD-COD-SW-15-0/1-0	Total/NA	Water	EPA 8260C	
180-101459-11	HD-QC1-0/1-1	Total/NA	Water	EPA 8260C	
180-101459-12	HD-COD-SW-9-0/1-0	Total/NA	Water	EPA 8260C	
180-101459-13	HD-COD-SW-28-0/1-0	Total/NA	Water	EPA 8260C	
180-101459-14	HD-QC1-0/1-2	Total/NA	Water	EPA 8260C	
MB 180-304996/6	Method Blank	Total/NA	Water	EPA 8260C	
LCS 180-304996/4	Lab Control Sample	Total/NA	Water	EPA 8260C	
180-101459-10 MS	HD-COD-SW-15-0/1-0	Total/NA	Water	EPA 8260C	
180-101459-10 MSD	HD-COD-SW-15-0/1-0	Total/NA	Water	EPA 8260C	

# Lab Chronicle

Client: Groundwater Sciences Corporation  
Project/Site: FYNOP

Job ID: 180-101459-1

**Client Sample ID: HD-COD-SW-29-0/1-0**

**Lab Sample ID: 180-101459-1**

Date Collected: 01/23/20 10:05

Matrix: Water

Date Received: 01/24/20 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	304996	01/25/20 13:54	HRB	TAL PIT
Instrument ID: CHHP6										

**Client Sample ID: HD-COD-SW-8-0/1-0**

**Lab Sample ID: 180-101459-2**

Date Collected: 01/23/20 10:20

Matrix: Water

Date Received: 01/24/20 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	304996	01/25/20 14:21	HRB	TAL PIT
Instrument ID: CHHP6										

**Client Sample ID: HD-COD-SW-13-0/1-0**

**Lab Sample ID: 180-101459-3**

Date Collected: 01/23/20 10:40

Matrix: Water

Date Received: 01/24/20 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	304996	01/25/20 14:49	HRB	TAL PIT
Instrument ID: CHHP6										

**Client Sample ID: HD-COD-SW-16-0/1-0**

**Lab Sample ID: 180-101459-4**

Date Collected: 01/23/20 11:00

Matrix: Water

Date Received: 01/24/20 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	304996	01/25/20 15:16	HRB	TAL PIT
Instrument ID: CHHP6										

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

**Lab Sample ID: 180-101459-5**

Date Collected: 01/23/20 11:05

Matrix: Water

Date Received: 01/24/20 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	304996	01/25/20 15:43	HRB	TAL PIT
Instrument ID: CHHP6										

**Client Sample ID: HD-COD-SW-6-0/1-0**

**Lab Sample ID: 180-101459-6**

Date Collected: 01/23/20 11:35

Matrix: Water

Date Received: 01/24/20 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	304996	01/25/20 16:10	HRB	TAL PIT
Instrument ID: CHHP6										



# Lab Chronicle

Client: Groundwater Sciences Corporation  
Project/Site: fYNOP

Job ID: 180-101459-1

**Client Sample ID: HD-COD-SW-26-0/1-0**

**Lab Sample ID: 180-101459-7**

Date Collected: 01/23/20 12:35

Matrix: Water

Date Received: 01/24/20 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	304996	01/25/20 16:38	HRB	TAL PIT
Instrument ID: CHHP6										

**Client Sample ID: HD-COD-SW-7-0/1-0**

**Lab Sample ID: 180-101459-8**

Date Collected: 01/23/20 12:50

Matrix: Water

Date Received: 01/24/20 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	304996	01/25/20 17:05	HRB	TAL PIT
Instrument ID: CHHP6										

**Client Sample ID: HD-COD-SW-27-0/1-0**

**Lab Sample ID: 180-101459-9**

Date Collected: 01/23/20 13:05

Matrix: Water

Date Received: 01/24/20 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	304996	01/25/20 17:32	HRB	TAL PIT
Instrument ID: CHHP6										

**Client Sample ID: HD-COD-SW-15-0/1-0**

**Lab Sample ID: 180-101459-10**

Date Collected: 01/23/20 13:15

Matrix: Water

Date Received: 01/24/20 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	304996	01/25/20 13:27	HRB	TAL PIT
Instrument ID: CHHP6										

**Client Sample ID: HD-QC1-0/1-1**

**Lab Sample ID: 180-101459-11**

Date Collected: 01/23/20 12:00

Matrix: Water

Date Received: 01/24/20 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	304996	01/25/20 17:59	HRB	TAL PIT
Instrument ID: CHHP6										

**Client Sample ID: HD-COD-SW-9-0/1-0**

**Lab Sample ID: 180-101459-12**

Date Collected: 01/23/20 13:40

Matrix: Water

Date Received: 01/24/20 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	304996	01/25/20 18:26	HRB	TAL PIT
Instrument ID: CHHP6										

# Lab Chronicle

Client: Groundwater Sciences Corporation  
Project/Site: FYNOP

Job ID: 180-101459-1

**Client Sample ID: HD-COD-SW-28-0/1-0**

**Lab Sample ID: 180-101459-13**

**Date Collected: 01/23/20 14:05**

**Matrix: Water**

**Date Received: 01/24/20 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	304996	01/25/20 18:54	HRB	TAL PIT
Instrument ID: CHHP6										

**Client Sample ID: HD-QC1-0/1-2**

**Lab Sample ID: 180-101459-14**

**Date Collected: 01/23/20 00:00**

**Matrix: Water**

**Date Received: 01/24/20 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	304996	01/25/20 19:21	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: 180-101459-1

## Laboratory: Eurofins TestAmerica, Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-20
California	State	2891	04-30-20
Connecticut	State	PH-0688	09-30-20
Florida	NELAP	E871008	06-30-20
Georgia	State	PA 02-00416	04-30-20
Illinois	NELAP	004375	06-30-20
Kansas	NELAP	E-10350	03-31-20
Kentucky (UST)	State	162013	04-30-20
Kentucky (WW)	State	KY98043	12-31-20
Louisiana	NELAP	04041	06-30-20
Minnesota	NELAP	042-999-482	12-31-20
Nevada	State	PA00164	07-31-20
New Hampshire	NELAP	2030	04-04-20
New Jersey	NELAP	PA005	06-30-20
New York	NELAP	11182	04-01-20
North Carolina (WW/SW)	State	434	01-01-21
North Dakota	State	R-227	04-30-20
Oregon	NELAP	PA-2151	02-06-20
Pennsylvania	NELAP	02-00416	04-30-20
Rhode Island	State	LAO00362	12-31-20
South Carolina	State	89014	04-30-20
Texas	NELAP	T104704528	03-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-20
Virginia	NELAP	10043	09-15-20
West Virginia DEP	State	142	01-31-20
Wisconsin	State	998027800	08-31-20

# Method Summary

Client: Groundwater Sciences Corporation  
Project/Site: fYNOP

Job ID: 180-101459-1

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<b>Method</b>	<b>Method Description</b>	<b>Protocol</b>	<b>Laboratory</b>
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: 180-101459-1

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-101459-1	HD-COD-SW-29-0/1-0	Water	01/23/20 10:05	01/24/20 09:00	
180-101459-2	HD-COD-SW-8-0/1-0	Water	01/23/20 10:20	01/24/20 09:00	
180-101459-3	HD-COD-SW-13-0/1-0	Water	01/23/20 10:40	01/24/20 09:00	
180-101459-4	HD-COD-SW-16-0/1-0	Water	01/23/20 11:00	01/24/20 09:00	
180-101459-5	HD-COD-SW-17-0/1-0	Water	01/23/20 11:05	01/24/20 09:00	
180-101459-6	HD-COD-SW-6-0/1-0	Water	01/23/20 11:35	01/24/20 09:00	
180-101459-7	HD-COD-SW-26-0/1-0	Water	01/23/20 12:35	01/24/20 09:00	
180-101459-8	HD-COD-SW-7-0/1-0	Water	01/23/20 12:50	01/24/20 09:00	
180-101459-9	HD-COD-SW-27-0/1-0	Water	01/23/20 13:05	01/24/20 09:00	
180-101459-10	HD-COD-SW-15-0/1-0	Water	01/23/20 13:15	01/24/20 09:00	
180-101459-11	HD-QC1-0/1-1	Water	01/23/20 12:00	01/24/20 09:00	
180-101459-12	HD-COD-SW-9-0/1-0	Water	01/23/20 13:40	01/24/20 09:00	
180-101459-13	HD-COD-SW-28-0/1-0	Water	01/23/20 14:05	01/24/20 09:00	
180-101459-14	HD-QC1-0/1-2	Water	01/23/20 00:00	01/24/20 09:00	

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Pittsb Job No.: 180-101459-1

SDG No.: \_\_\_\_\_

Instrument ID: CHHP6 Analysis Batch Number: 302982Lab Sample ID: IC 180-302982/4 Client Sample ID: \_\_\_\_\_Date Analyzed: 12/31/19 12:53 Lab File ID: 6123104.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.66	Peak assignment corrected	bowieh	12/31/19 13:47
Trichlorofluoromethane	2.76	Peak assignment corrected	bowieh	12/31/19 13:47
Ethyl ether	3.11	Peak assignment corrected	bowieh	12/31/19 13:47
Methyl acetate	4.04	Poor chromatography	bowieh	12/31/19 13:48
Acrylonitrile	4.61	Poor chromatography	bowieh	12/31/19 13:48
2,2-Dichloropropane	5.99	Poor chromatography	bowieh	12/31/19 13:48
1,1,1-Trichloroethane	6.60	Poor chromatography	bowieh	12/31/19 13:48
Isobutyl alcohol	7.00	Poor chromatography	bowieh	12/31/19 13:48
Dibromomethane	8.10	Poor chromatography	bowieh	12/31/19 13:48
1,2-Dibromo-3-Chloropropane	13.98	Peak assignment corrected	bowieh	12/31/19 13:47

Lab Sample ID: IC 180-302982/5 Client Sample ID: \_\_\_\_\_Date Analyzed: 12/31/19 13:20 Lab File ID: 6123105.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon tetrachloride	6.77	Peak assignment corrected	bowieh	12/31/19 13:49
1,4-Dioxane	8.11	Peak Tail	bowieh	12/31/19 15:04

Lab Sample ID: ICIS 180-302982/6 Client Sample ID: \_\_\_\_\_Date Analyzed: 12/31/19 13:47 Lab File ID: 6123106.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride	1.98	Peak assignment corrected	bowieh	12/31/19 14:24
1,4-Dioxane	8.11	Peak Tail	bowieh	12/31/19 15:05

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Pittsb Job No.: 180-101459-1

SDG No.: \_\_\_\_\_

Instrument ID: CHHP6 Analysis Batch Number: 302982Lab Sample ID: IC 180-302982/7 Client Sample ID: \_\_\_\_\_Date Analyzed: 12/31/19 14:14 Lab File ID: 6123107.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.12	Peak Tail	bowieh	12/31/19 15:05

Lab Sample ID: IC 180-302982/8 Client Sample ID: \_\_\_\_\_Date Analyzed: 12/31/19 14:41 Lab File ID: 6123108.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dichloropropane	8.01	Peak assignment corrected	bowieh	12/31/19 15:01
1,4-Dioxane	8.11	Peak Tail	bowieh	12/31/19 15:06

Lab Sample ID: IC 180-302982/9 Client Sample ID: \_\_\_\_\_Date Analyzed: 12/31/19 15:08 Lab File ID: 6123109.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dichloropropane	8.02	Peak Tail	bowieh	12/31/19 15:29
1,4-Dioxane	8.11	Peak Tail	bowieh	12/31/19 15:29

Lab Sample ID: IC 180-302982/10 Client Sample ID: \_\_\_\_\_Date Analyzed: 12/31/19 15:36 Lab File ID: 6123110.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dichloropropane	8.02	Peak assignment corrected	bowieh	12/31/19 16:10

Lab Sample ID: IC 180-302982/11 Client Sample ID: \_\_\_\_\_Date Analyzed: 12/31/19 16:03 Lab File ID: 6123111.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.11	Peak Tail	bowieh	12/31/19 18:53

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Pittsb Job No.: 180-101459-1

SDG No.: \_\_\_\_\_

Instrument ID: CHHP6 Analysis Batch Number: 304996

Lab Sample ID: CCVIS 180-304996/3 Client Sample ID: \_\_\_\_\_

Date Analyzed: 01/25/20 11:31 Lab File ID: 6012503A.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Butanone (MEK)	5.98	Peak assignment corrected	bowieh	01/25/20 11:53
1,4-Dioxane	8.06	Peak Tail	bowieh	01/25/20 11:53



## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Pittsb Job No.: 180-101459-1

SDG No.: \_\_\_\_\_

Instrument ID: CHHP6 Analysis Batch Number: 304996Lab Sample ID: MB 180-304996/6 Client Sample ID: \_\_\_\_\_Date Analyzed: 01/25/20 12:53 Lab File ID: 6012506.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toluene	9.01	Poor chromatography	bowieh	01/25/20 16:22
1,1,1,2-Tetrachloroethane		Invalid Compound ID	bowieh	01/25/20 16:22
1,1,1-Trichloroethane		Invalid Compound ID	bowieh	01/25/20 16:21
1,1,2,2-Tetrachloroethane		Invalid Compound ID	bowieh	01/25/20 16:22
1,1,2-Trichloroethane		Invalid Compound ID	bowieh	01/25/20 16:22
1,2-Dibromoethane (EDB)		Invalid Compound ID	bowieh	01/25/20 16:22
1,2-Dichloroethane		Invalid Compound ID	bowieh	01/25/20 16:21
1,2-Dichloropropane		Invalid Compound ID	bowieh	01/25/20 16:21
2-Butanone (MEK)		Invalid Compound ID	bowieh	01/25/20 16:21
2-Hexanone		Invalid Compound ID	bowieh	01/25/20 16:22
4-Methyl-2-pentanone (MIBK)		Invalid Compound ID	bowieh	01/25/20 16:22
Acetone		Invalid Compound ID	bowieh	01/25/20 16:21
Acrylonitrile		Invalid Compound ID	bowieh	01/25/20 16:21
Benzene		Invalid Compound ID	bowieh	01/25/20 16:21
Bromochloromethane		Invalid Compound ID	bowieh	01/25/20 16:21
Bromodichloromethane		Invalid Compound ID	bowieh	01/25/20 16:22
Bromoform		Invalid Compound ID	bowieh	01/25/20 16:22
Bromomethane		Invalid Compound ID	bowieh	01/25/20 16:20
Carbon disulfide		Invalid Compound ID	bowieh	01/25/20 16:21
Carbon tetrachloride		Invalid Compound ID	bowieh	01/25/20 16:21
Chlorobenzene		Invalid Compound ID	bowieh	01/25/20 16:22
Chloroethane		Invalid Compound ID	bowieh	01/25/20 16:20
Chloromethane		Invalid Compound ID	bowieh	01/25/20 16:20
cis-1,2-Dichloroethene		Invalid Compound ID	bowieh	01/25/20 16:21
cis-1,3-Dichloropropene		Invalid Compound ID	bowieh	01/25/20 16:22
Dibromochloromethane		Invalid Compound ID	bowieh	01/25/20 16:22
Ethylbenzene		Invalid Compound ID	bowieh	01/25/20 16:22
Methyl tert-butyl ether		Invalid Compound ID	bowieh	01/25/20 16:21
m-Xylene & p-Xylene		Invalid Compound ID	bowieh	01/25/20 16:22
o-Xylene		Invalid Compound ID	bowieh	01/25/20 16:22

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Pittsb Job No.: 180-101459-1

SDG No.: \_\_\_\_\_

Instrument ID: CHHP6 Analysis Batch Number: 304996

Lab Sample ID: MB 180-304996/6 Client Sample ID: \_\_\_\_\_

Date Analyzed: 01/25/20 12:53 Lab File ID: 6012506.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Tetrachloroethene		Invalid Compound ID	bowieh	01/25/20 16:22
trans-1,2-Dichloroethene		Invalid Compound ID	bowieh	01/25/20 16:21
trans-1,3-Dichloropropene		Invalid Compound ID	bowieh	01/25/20 16:22
Trichloroethene		Invalid Compound ID	bowieh	01/25/20 16:21
Vinyl chloride		Invalid Compound ID	bowieh	01/25/20 16:20
Styrene	11.08	Invalid Compound ID	bowieh	01/25/20 16:22

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Pittsb Job No.: 180-101459-1

SDG No.: \_\_\_\_\_

Instrument ID: CHHP6 Analysis Batch Number: 304996Lab Sample ID: 180-101459-10 Client Sample ID: HD-COD-SW-15-0/1-0Date Analyzed: 01/25/20 13:27 Lab File ID: 6012507.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	1.86	Poor chromatography	bowieh	01/25/20 13:57
Methyl tert-butyl ether	4.62	Invalid Compound ID	bowieh	01/25/20 15:13
1,1-Dichloroethane	5.24	Poor chromatography	bowieh	01/25/20 15:13
cis-1,2-Dichloroethene	5.99	Poor chromatography	bowieh	01/25/20 15:13
1,1,1-Trichloroethane	6.55	Poor chromatography	bowieh	01/25/20 15:13
1,1,1,2-Tetrachloroethane		Invalid Compound ID	bowieh	01/25/20 15:14
1,1,2,2-Tetrachloroethane		Invalid Compound ID	bowieh	01/25/20 15:14
1,1,2-Trichloroethane		Invalid Compound ID	bowieh	01/25/20 15:14
1,1-Dichloroethene		Invalid Compound ID	bowieh	01/25/20 15:12
1,2-Dibromoethane (EDB)		Invalid Compound ID	bowieh	01/25/20 15:14
1,2-Dichloroethane		Invalid Compound ID	bowieh	01/25/20 15:13
1,2-Dichloropropane		Invalid Compound ID	bowieh	01/25/20 15:13
2-Butanone (MEK)		Invalid Compound ID	bowieh	01/25/20 15:13
2-Hexanone		Invalid Compound ID	bowieh	01/25/20 15:14
4-Methyl-2-pentanone (MIBK)		Invalid Compound ID	bowieh	01/25/20 15:13
Acrylonitrile		Invalid Compound ID	bowieh	01/25/20 15:12
Benzene		Invalid Compound ID	bowieh	01/25/20 15:13
Bromomethane		Invalid Compound ID	bowieh	01/25/20 15:12
Carbon disulfide		Invalid Compound ID	bowieh	01/25/20 15:12
Carbon tetrachloride		Invalid Compound ID	bowieh	01/25/20 15:13
Chlorobenzene		Invalid Compound ID	bowieh	01/25/20 15:14
Chloroethane		Invalid Compound ID	bowieh	01/25/20 15:12
cis-1,3-Dichloropropene		Invalid Compound ID	bowieh	01/25/20 15:13
Dibromochloromethane		Invalid Compound ID	bowieh	01/25/20 15:14
Ethylbenzene		Invalid Compound ID	bowieh	01/25/20 15:14
m-Xylene & p-Xylene		Invalid Compound ID	bowieh	01/25/20 15:14
o-Xylene		Invalid Compound ID	bowieh	01/25/20 15:14
Styrene		Invalid Compound ID	bowieh	01/25/20 15:14
Toluene		Invalid Compound ID	bowieh	01/25/20 15:14
trans-1,2-Dichloroethene		Invalid Compound ID	bowieh	01/25/20 15:13

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Pittsb Job No.: 180-101459-1

SDG No.: \_\_\_\_\_

Instrument ID: CHHP6 Analysis Batch Number: 304996

Lab Sample ID: 180-101459-10 Client Sample ID: HD-COD-SW-15-0/1-0

Date Analyzed: 01/25/20 13:27 Lab File ID: 6012507.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	01/25/20 15:14
Vinyl chloride		Invalid Compound ID	bowieh	01/25/20 15:12

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Pittsb Job No.: 180-101459-1

SDG No.: \_\_\_\_\_

Instrument ID: CHHP6 Analysis Batch Number: 304996Lab Sample ID: 180-101459-1 Client Sample ID: HD-COD-SW-29-0/1-0Date Analyzed: 01/25/20 13:54 Lab File ID: 6012508.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	1.85	Poor chromatography	bowieh	01/25/20 15:14
Acetone	3.46	Poor chromatography	bowieh	01/25/20 15:15
1,1,1,2-Tetrachloroethane		Invalid Compound ID	bowieh	01/25/20 15:15
1,1,1-Trichloroethane		Invalid Compound ID	bowieh	01/25/20 15:15
1,1,2,2-Tetrachloroethane		Invalid Compound ID	bowieh	01/25/20 15:15
1,1,2-Trichloroethane		Invalid Compound ID	bowieh	01/25/20 15:15
1,1-Dichloroethene		Invalid Compound ID	bowieh	01/25/20 15:14
1,2-Dibromoethane (EDB)		Invalid Compound ID	bowieh	01/25/20 15:15
1,2-Dichloroethane		Invalid Compound ID	bowieh	01/25/20 15:15
1,2-Dichloropropane		Invalid Compound ID	bowieh	01/25/20 15:15
2-Hexanone		Invalid Compound ID	bowieh	01/25/20 15:15
4-Methyl-2-pentanone (MIBK)		Invalid Compound ID	bowieh	01/25/20 15:15
Acrylonitrile		Invalid Compound ID	bowieh	01/25/20 15:15
Benzene		Invalid Compound ID	bowieh	01/25/20 15:15
Bromomethane		Invalid Compound ID	bowieh	01/25/20 15:14
Carbon disulfide		Invalid Compound ID	bowieh	01/25/20 15:15
Carbon tetrachloride		Invalid Compound ID	bowieh	01/25/20 15:15
Chlorobenzene		Invalid Compound ID	bowieh	01/25/20 15:15
Chloroethane		Invalid Compound ID	bowieh	01/25/20 15:14
Chloroform		Invalid Compound ID	bowieh	01/25/20 15:15
cis-1,2-Dichloroethene		Invalid Compound ID	bowieh	01/25/20 15:15
cis-1,3-Dichloropropene		Invalid Compound ID	bowieh	01/25/20 15:15
Dibromochloromethane		Invalid Compound ID	bowieh	01/25/20 15:15
Ethylbenzene		Invalid Compound ID	bowieh	01/25/20 15:15
Methyl tert-butyl ether		Invalid Compound ID	bowieh	01/25/20 15:15
Methylene Chloride		Invalid Compound ID	bowieh	01/25/20 15:15
m-Xylene & p-Xylene		Invalid Compound ID	bowieh	01/25/20 15:15
Styrene		Invalid Compound ID	bowieh	01/25/20 15:15
trans-1,2-Dichloroethene		Invalid Compound ID	bowieh	01/25/20 15:15
trans-1,3-Dichloropropene		Invalid Compound ID	bowieh	01/25/20 15:15

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Pittsb Job No.: 180-101459-1

SDG No.: \_\_\_\_\_

Instrument ID: CHHP6 Analysis Batch Number: 304996

Lab Sample ID: 180-101459-1 Client Sample ID: HD-COD-SW-29-0/1-0

Date Analyzed: 01/25/20 13:54 Lab File ID: 6012508.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride		Invalid Compound ID	bowieh	01/25/20 15:14
o-Xylene	11.07	Invalid Compound ID	bowieh	01/25/20 15:15

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Pittsb Job No.: 180-101459-1

SDG No.: \_\_\_\_\_

Instrument ID: CHHP6 Analysis Batch Number: 304996Lab Sample ID: 180-101459-2 Client Sample ID: HD-COD-SW-8-0/1-0Date Analyzed: 01/25/20 14:21 Lab File ID: 6012509.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	01/25/20 15:17
1,1,1-Trichloroethane		Invalid Compound ID	bowieh	01/25/20 15:16
1,1,2,2-Tetrachloroethane		Invalid Compound ID	bowieh	01/25/20 15:17
1,1,2-Trichloroethane		Invalid Compound ID	bowieh	01/25/20 15:17
1,1-Dichloroethene		Invalid Compound ID	bowieh	01/25/20 15:16
1,2-Dibromoethane (EDB)		Invalid Compound ID	bowieh	01/25/20 15:17
1,2-Dichloroethane		Invalid Compound ID	bowieh	01/25/20 15:16
1,2-Dichloropropane		Invalid Compound ID	bowieh	01/25/20 15:16
2-Butanone (MEK)		Invalid Compound ID	bowieh	01/25/20 15:16
2-Hexanone		Invalid Compound ID	bowieh	01/25/20 15:17
4-Methyl-2-pentanone (MIBK)		Invalid Compound ID	bowieh	01/25/20 15:16
Acrylonitrile		Invalid Compound ID	bowieh	01/25/20 15:16
Benzene		Invalid Compound ID	bowieh	01/25/20 15:16
Bromodichloromethane		Invalid Compound ID	bowieh	01/25/20 15:16
Bromomethane		Invalid Compound ID	bowieh	01/25/20 15:16
Carbon disulfide		Invalid Compound ID	bowieh	01/25/20 15:16
Carbon tetrachloride		Invalid Compound ID	bowieh	01/25/20 15:16
Chlorobenzene		Invalid Compound ID	bowieh	01/25/20 15:17
Chloroethane		Invalid Compound ID	bowieh	01/25/20 15:16
Chloroform		Invalid Compound ID	bowieh	01/25/20 15:16
cis-1,2-Dichloroethene		Invalid Compound ID	bowieh	01/25/20 15:16
cis-1,3-Dichloropropene		Invalid Compound ID	bowieh	01/25/20 15:16
Dibromochloromethane		Invalid Compound ID	bowieh	01/25/20 15:17
Ethylbenzene		Invalid Compound ID	bowieh	01/25/20 15:17
Methyl tert-butyl ether		Invalid Compound ID	bowieh	01/25/20 15:16
m-Xylene & p-Xylene		Invalid Compound ID	bowieh	01/25/20 15:17
o-Xylene		Invalid Compound ID	bowieh	01/25/20 15:17
Tetrachloroethene		Invalid Compound ID	bowieh	01/25/20 15:17
trans-1,2-Dichloroethene		Invalid Compound ID	bowieh	01/25/20 15:16
trans-1,3-Dichloropropene		Invalid Compound ID	bowieh	01/25/20 15:17

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Pittsb Job No.: 180-101459-1

SDG No.: \_\_\_\_\_

Instrument ID: CHHP6 Analysis Batch Number: 304996

Lab Sample ID: 180-101459-2 Client Sample ID: HD-COD-SW-8-0/1-0

Date Analyzed: 01/25/20 14:21 Lab File ID: 6012509.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride		Invalid Compound ID	bowieh	01/25/20 15:16



## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Pittsb Job No.: 180-101459-1

SDG No.: \_\_\_\_\_

Instrument ID: CHHP6 Analysis Batch Number: 304996Lab Sample ID: 180-101459-3 Client Sample ID: HD-COD-SW-13-0/1-0Date Analyzed: 01/25/20 14:49 Lab File ID: 6012510.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	1.84	Poor chromatography	bowieh	01/25/20 15:17
2-Butanone (MEK)	5.99	Invalid Compound ID	bowieh	01/25/20 15:18
Trichloroethene	7.69	Poor chromatography	bowieh	01/25/20 15:18
1,1,1,2-Tetrachloroethane		Invalid Compound ID	bowieh	01/25/20 15:18
1,1,1-Trichloroethane		Invalid Compound ID	bowieh	01/25/20 15:18
1,1,2,2-Tetrachloroethane		Invalid Compound ID	bowieh	01/25/20 15:18
1,1,2-Trichloroethane		Invalid Compound ID	bowieh	01/25/20 15:18
1,2-Dibromoethane (EDB)		Invalid Compound ID	bowieh	01/25/20 15:18
1,2-Dichloroethane		Invalid Compound ID	bowieh	01/25/20 15:18
1,2-Dichloropropane		Invalid Compound ID	bowieh	01/25/20 15:18
2-Hexanone		Invalid Compound ID	bowieh	01/25/20 15:18
4-Methyl-2-pentanone (MIBK)		Invalid Compound ID	bowieh	01/25/20 15:18
Acrylonitrile		Invalid Compound ID	bowieh	01/25/20 15:17
Benzene		Invalid Compound ID	bowieh	01/25/20 15:18
Bromodichloromethane		Invalid Compound ID	bowieh	01/25/20 15:18
Bromomethane		Invalid Compound ID	bowieh	01/25/20 15:17
Carbon disulfide		Invalid Compound ID	bowieh	01/25/20 15:17
Carbon tetrachloride		Invalid Compound ID	bowieh	01/25/20 15:18
Chlorobenzene		Invalid Compound ID	bowieh	01/25/20 15:18
Chloroethane		Invalid Compound ID	bowieh	01/25/20 15:17
Chloroform		Invalid Compound ID	bowieh	01/25/20 15:18
cis-1,2-Dichloroethene		Invalid Compound ID	bowieh	01/25/20 15:18
cis-1,3-Dichloropropene		Invalid Compound ID	bowieh	01/25/20 15:18
Dibromochloromethane		Invalid Compound ID	bowieh	01/25/20 15:18
Ethylbenzene		Invalid Compound ID	bowieh	01/25/20 15:18
Methyl tert-butyl ether		Invalid Compound ID	bowieh	01/25/20 15:18
m-Xylene & p-Xylene		Invalid Compound ID	bowieh	01/25/20 15:18
o-Xylene		Invalid Compound ID	bowieh	01/25/20 15:18
Tetrachloroethene		Invalid Compound ID	bowieh	01/25/20 15:18
trans-1,2-Dichloroethene		Invalid Compound ID	bowieh	01/25/20 15:18

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Pittsb Job No.: 180-101459-1

SDG No.: \_\_\_\_\_

Instrument ID: CHHP6 Analysis Batch Number: 304996

Lab Sample ID: 180-101459-3 Client Sample ID: HD-COD-SW-13-0/1-0

Date Analyzed: 01/25/20 14:49 Lab File ID: 6012510.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	01/25/20 15:18
Vinyl chloride		Invalid Compound ID	bowieh	01/25/20 15:17

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Pittsb Job No.: 180-101459-1

SDG No.: \_\_\_\_\_

Instrument ID: CHHP6 Analysis Batch Number: 304996Lab Sample ID: 180-101459-4 Client Sample ID: HD-COD-SW-16-0/1-0Date Analyzed: 01/25/20 15:16 Lab File ID: 6012511.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	1.83	Poor chromatography	bowieh	01/25/20 15:35
Acetone	3.47	Poor chromatography	bowieh	01/25/20 15:35
Toluene	9.04	Poor chromatography	bowieh	01/25/20 15:36
1,1,1,2-Tetrachloroethane		Invalid Compound ID	bowieh	01/25/20 15:36
1,1,1-Trichloroethane		Invalid Compound ID	bowieh	01/25/20 15:36
1,1,2,2-Tetrachloroethane		Invalid Compound ID	bowieh	01/25/20 15:36
1,1,2-Trichloroethane		Invalid Compound ID	bowieh	01/25/20 15:36
1,2-Dibromoethane (EDB)		Invalid Compound ID	bowieh	01/25/20 15:36
1,2-Dichloroethane		Invalid Compound ID	bowieh	01/25/20 15:36
1,2-Dichloropropane		Invalid Compound ID	bowieh	01/25/20 15:36
2-Hexanone		Invalid Compound ID	bowieh	01/25/20 15:36
4-Methyl-2-pentanone (MIBK)		Invalid Compound ID	bowieh	01/25/20 15:36
Acrylonitrile		Invalid Compound ID	bowieh	01/25/20 15:36
Benzene		Invalid Compound ID	bowieh	01/25/20 15:36
Bromodichloromethane		Invalid Compound ID	bowieh	01/25/20 15:36
Bromomethane		Invalid Compound ID	bowieh	01/25/20 15:35
Carbon disulfide		Invalid Compound ID	bowieh	01/25/20 15:35
Carbon tetrachloride		Invalid Compound ID	bowieh	01/25/20 15:36
Chloroethane		Invalid Compound ID	bowieh	01/25/20 15:35
cis-1,2-Dichloroethene		Invalid Compound ID	bowieh	01/25/20 15:36
cis-1,3-Dichloropropene		Invalid Compound ID	bowieh	01/25/20 15:36
Dibromochloromethane		Invalid Compound ID	bowieh	01/25/20 15:36
Ethylbenzene		Invalid Compound ID	bowieh	01/25/20 15:36
Methyl tert-butyl ether		Invalid Compound ID	bowieh	01/25/20 15:36
m-Xylene & p-Xylene		Invalid Compound ID	bowieh	01/25/20 15:36
o-Xylene		Invalid Compound ID	bowieh	01/25/20 15:36
Styrene		Invalid Compound ID	bowieh	01/25/20 15:36
Tetrachloroethene		Invalid Compound ID	bowieh	01/25/20 15:36
trans-1,2-Dichloroethene		Invalid Compound ID	bowieh	01/25/20 15:36
trans-1,3-Dichloropropene		Invalid Compound ID	bowieh	01/25/20 15:36

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Pittsb Job No.: 180-101459-1

SDG No.: \_\_\_\_\_

Instrument ID: CHHP6 Analysis Batch Number: 304996

Lab Sample ID: 180-101459-4 Client Sample ID: HD-COD-SW-16-0/1-0

Date Analyzed: 01/25/20 15:16 Lab File ID: 6012511.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride		Invalid Compound ID	bowieh	01/25/20 15:35

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Pittsb Job No.: 180-101459-1

SDG No.: \_\_\_\_\_

Instrument ID: CHHP6 Analysis Batch Number: 304996Lab Sample ID: 180-101459-5 Client Sample ID: HD-COD-SW-17-0/1-0Date Analyzed: 01/25/20 15:43 Lab File ID: 6012512.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	1.85	Poor chromatography	bowieh	01/25/20 16:25
Acetone	3.51	Poor chromatography	bowieh	01/25/20 16:25
1,1,1-Trichloroethane	6.56	Invalid Compound ID	bowieh	01/25/20 16:25
1,1,1,2-Tetrachloroethane		Invalid Compound ID	bowieh	01/25/20 16:26
1,1,2,2-Tetrachloroethane		Invalid Compound ID	bowieh	01/25/20 16:26
1,1,2-Trichloroethane		Invalid Compound ID	bowieh	01/25/20 16:25
1,1-Dichloroethene		Invalid Compound ID	bowieh	01/25/20 16:25
1,2-Dibromoethane (EDB)		Invalid Compound ID	bowieh	01/25/20 16:26
1,2-Dichloroethane		Invalid Compound ID	bowieh	01/25/20 16:25
1,2-Dichloropropane		Invalid Compound ID	bowieh	01/25/20 16:25
2-Hexanone		Invalid Compound ID	bowieh	01/25/20 16:26
4-Methyl-2-pentanone (MIBK)		Invalid Compound ID	bowieh	01/25/20 16:25
Acrylonitrile		Invalid Compound ID	bowieh	01/25/20 16:25
Benzene		Invalid Compound ID	bowieh	01/25/20 16:25
Bromodichloromethane		Invalid Compound ID	bowieh	01/25/20 16:25
Bromomethane		Invalid Compound ID	bowieh	01/25/20 16:25
Carbon disulfide		Invalid Compound ID	bowieh	01/25/20 16:25
Carbon tetrachloride		Invalid Compound ID	bowieh	01/25/20 16:25
Chlorobenzene		Invalid Compound ID	bowieh	01/25/20 16:26
Chloroethane		Invalid Compound ID	bowieh	01/25/20 16:25
cis-1,3-Dichloropropene		Invalid Compound ID	bowieh	01/25/20 16:25
Dibromochloromethane		Invalid Compound ID	bowieh	01/25/20 16:26
Ethylbenzene		Invalid Compound ID	bowieh	01/25/20 16:26
Methylene Chloride		Invalid Compound ID	bowieh	01/25/20 16:25
m-Xylene & p-Xylene		Invalid Compound ID	bowieh	01/25/20 16:26
o-Xylene		Invalid Compound ID	bowieh	01/25/20 16:26
Styrene		Invalid Compound ID	bowieh	01/25/20 16:26
trans-1,2-Dichloroethene		Invalid Compound ID	bowieh	01/25/20 16:25
trans-1,3-Dichloropropene		Invalid Compound ID	bowieh	01/25/20 16:25
Vinyl chloride		Invalid Compound ID	bowieh	01/25/20 16:25

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Pittsb Job No.: 180-101459-1

SDG No.: \_\_\_\_\_

Instrument ID: CHHP6 Analysis Batch Number: 304996Lab Sample ID: 180-101459-6 Client Sample ID: HD-COD-SW-6-0/1-0Date Analyzed: 01/25/20 16:10 Lab File ID: 6012513.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	3.50	Poor chromatography	bowieh	01/28/20 08:56
Methylene Chloride	4.16	Poor chromatography	bowieh	01/28/20 08:56
1,1,1-Trichloroethane		Invalid Compound ID	bowieh	01/28/20 08:56
1,1,2,2-Tetrachloroethane		Invalid Compound ID	bowieh	01/28/20 08:57
1,1,2-Trichloroethane		Invalid Compound ID	bowieh	01/28/20 08:57
1,2-Dibromoethane (EDB)		Invalid Compound ID	bowieh	01/28/20 08:57
1,2-Dichloroethane		Invalid Compound ID	bowieh	01/28/20 08:56
1,2-Dichloropropane		Invalid Compound ID	bowieh	01/28/20 08:56
2-Butanone (MEK)		Invalid Compound ID	bowieh	01/28/20 08:56
2-Hexanone		Invalid Compound ID	bowieh	01/28/20 08:57
4-Methyl-2-pentanone (MIBK)		Invalid Compound ID	bowieh	01/28/20 08:57
Acrylonitrile		Invalid Compound ID	bowieh	01/28/20 08:56
Benzene		Invalid Compound ID	bowieh	01/28/20 08:56
Bromochloromethane		Invalid Compound ID	bowieh	01/28/20 08:56
Bromodichloromethane		Invalid Compound ID	bowieh	01/28/20 08:56
Bromoform		Invalid Compound ID	bowieh	01/28/20 08:57
Bromomethane		Invalid Compound ID	bowieh	01/28/20 08:56
Carbon disulfide		Invalid Compound ID	bowieh	01/28/20 08:56
Carbon tetrachloride		Invalid Compound ID	bowieh	01/28/20 08:56
Chlorobenzene		Invalid Compound ID	bowieh	01/28/20 08:57
Chloroethane		Invalid Compound ID	bowieh	01/28/20 08:56
Chloroform		Invalid Compound ID	bowieh	01/28/20 08:56
Chloromethane		Invalid Compound ID	bowieh	01/28/20 08:56
cis-1,2-Dichloroethene		Invalid Compound ID	bowieh	01/28/20 08:56
cis-1,3-Dichloropropene		Invalid Compound ID	bowieh	01/28/20 08:57
Dibromochloromethane		Invalid Compound ID	bowieh	01/28/20 08:57
Ethylbenzene		Invalid Compound ID	bowieh	01/28/20 08:57
Methyl tert-butyl ether		Invalid Compound ID	bowieh	01/28/20 08:56
m-Xylene & p-Xylene		Invalid Compound ID	bowieh	01/28/20 08:57
o-Xylene		Invalid Compound ID	bowieh	01/28/20 08:57

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Pittsb Job No.: 180-101459-1

SDG No.: \_\_\_\_\_

Instrument ID: CHHP6 Analysis Batch Number: 304996

Lab Sample ID: 180-101459-6 Client Sample ID: HD-COD-SW-6-0/1-0

Date Analyzed: 01/25/20 16:10 Lab File ID: 6012513.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Tetrachloroethene		Invalid Compound ID	bowieh	01/28/20 08:57
trans-1,2-Dichloroethene		Invalid Compound ID	bowieh	01/28/20 08:56
trans-1,3-Dichloropropene		Invalid Compound ID	bowieh	01/28/20 08:57
Trichloroethene		Invalid Compound ID	bowieh	01/28/20 08:56
Vinyl chloride		Invalid Compound ID	bowieh	01/28/20 08:56

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Pittsb Job No.: 180-101459-1

SDG No.: \_\_\_\_\_

Instrument ID: CHHP6 Analysis Batch Number: 304996Lab Sample ID: 180-101459-7 Client Sample ID: HD-COD-SW-26-0/1-0Date Analyzed: 01/25/20 16:38 Lab File ID: 6012514.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1-Dichloroethene	3.37	Invalid Compound ID	bowieh	01/28/20 08:57
Acetone	3.50	Poor chromatography	bowieh	01/28/20 08:58
1,1,1,2-Tetrachloroethane		Invalid Compound ID	bowieh	01/28/20 08:59
1,1,1-Trichloroethane		Invalid Compound ID	bowieh	01/28/20 08:58
1,1,2,2-Tetrachloroethane		Invalid Compound ID	bowieh	01/28/20 08:59
1,1,2-Trichloroethane		Invalid Compound ID	bowieh	01/28/20 08:58
1,2-Dibromoethane (EDB)		Invalid Compound ID	bowieh	01/28/20 08:59
1,2-Dichloroethane		Invalid Compound ID	bowieh	01/28/20 08:58
1,2-Dichloropropane		Invalid Compound ID	bowieh	01/28/20 08:58
2-Butanone (MEK)		Invalid Compound ID	bowieh	01/28/20 08:58
2-Hexanone		Invalid Compound ID	bowieh	01/28/20 08:58
4-Methyl-2-pentanone (MIBK)		Invalid Compound ID	bowieh	01/28/20 08:58
Acrylonitrile		Invalid Compound ID	bowieh	01/28/20 08:58
Benzene		Invalid Compound ID	bowieh	01/28/20 08:58
Bromochloromethane		Invalid Compound ID	bowieh	01/28/20 08:58
Bromodichloromethane		Invalid Compound ID	bowieh	01/28/20 08:58
Bromomethane		Invalid Compound ID	bowieh	01/28/20 08:57
Carbon disulfide		Invalid Compound ID	bowieh	01/28/20 08:58
Carbon tetrachloride		Invalid Compound ID	bowieh	01/28/20 08:58
Chlorobenzene		Invalid Compound ID	bowieh	01/28/20 08:59
Chloroethane		Invalid Compound ID	bowieh	01/28/20 08:57
Chloromethane		Invalid Compound ID	bowieh	01/28/20 08:57
cis-1,2-Dichloroethene		Invalid Compound ID	bowieh	01/28/20 08:58
cis-1,3-Dichloropropene		Invalid Compound ID	bowieh	01/28/20 08:58
Dibromochloromethane		Invalid Compound ID	bowieh	01/28/20 08:59
Ethylbenzene		Invalid Compound ID	bowieh	01/28/20 08:59
Methyl tert-butyl ether		Invalid Compound ID	bowieh	01/28/20 08:58
m-Xylene & p-Xylene		Invalid Compound ID	bowieh	01/28/20 08:59
o-Xylene		Invalid Compound ID	bowieh	01/28/20 08:59
Styrene		Invalid Compound ID	bowieh	01/28/20 08:59



GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Pittsb Job No.: 180-101459-1

SDG No.: \_\_\_\_\_

Instrument ID: CHHP6 Analysis Batch Number: 304996

Lab Sample ID: 180-101459-7 Client Sample ID: HD-COD-SW-26-0/1-0

Date Analyzed: 01/25/20 16:38 Lab File ID: 6012514.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	01/28/20 08:58
trans-1,3-Dichloropropene		Invalid Compound ID	bowieh	01/28/20 08:58
Vinyl chloride		Invalid Compound ID	bowieh	01/28/20 08:57

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Pittsb Job No.: 180-101459-1

SDG No.: \_\_\_\_\_

Instrument ID: CHHP6 Analysis Batch Number: 304996Lab Sample ID: 180-101459-8 Client Sample ID: HD-COD-SW-7-0/1-0Date Analyzed: 01/25/20 17:05 Lab File ID: 6012515.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	3.50	Poor chromatography	bowieh	01/28/20 09:00
Trichloroethene	7.68	Invalid Compound ID	bowieh	01/28/20 09:37
1,1,1,2-Tetrachloroethane		Invalid Compound ID	bowieh	01/28/20 09:37
1,1,1-Trichloroethane		Invalid Compound ID	bowieh	01/28/20 09:37
1,1,2,2-Tetrachloroethane		Invalid Compound ID	bowieh	01/28/20 09:37
1,1,2-Trichloroethane		Invalid Compound ID	bowieh	01/28/20 09:37
1,1-Dichloroethene		Invalid Compound ID	bowieh	01/28/20 09:00
1,2-Dibromoethane (EDB)		Invalid Compound ID	bowieh	01/28/20 09:37
1,2-Dichloroethane		Invalid Compound ID	bowieh	01/28/20 09:37
1,2-Dichloropropane		Invalid Compound ID	bowieh	01/28/20 09:37
2-Butanone (MEK)		Invalid Compound ID	bowieh	01/28/20 09:37
2-Hexanone		Invalid Compound ID	bowieh	01/28/20 09:37
4-Methyl-2-pentanone (MIBK)		Invalid Compound ID	bowieh	01/28/20 09:37
Acrylonitrile		Invalid Compound ID	bowieh	01/28/20 09:36
Benzene		Invalid Compound ID	bowieh	01/28/20 09:37
Bromodichloromethane		Invalid Compound ID	bowieh	01/28/20 09:37
Bromomethane		Invalid Compound ID	bowieh	01/28/20 09:00
Carbon disulfide		Invalid Compound ID	bowieh	01/28/20 09:36
Carbon tetrachloride		Invalid Compound ID	bowieh	01/28/20 09:37
Chlorobenzene		Invalid Compound ID	bowieh	01/28/20 09:37
Chloroethane		Invalid Compound ID	bowieh	01/28/20 09:00
Chloroform		Invalid Compound ID	bowieh	01/28/20 09:37
Dibromochloromethane		Invalid Compound ID	bowieh	01/28/20 09:37
Ethylbenzene		Invalid Compound ID	bowieh	01/28/20 09:37
Methyl tert-butyl ether		Invalid Compound ID	bowieh	01/28/20 09:37
m-Xylene & p-Xylene		Invalid Compound ID	bowieh	01/28/20 09:37
o-Xylene		Invalid Compound ID	bowieh	01/28/20 09:37
Styrene		Invalid Compound ID	bowieh	01/28/20 09:37
Tetrachloroethene		Invalid Compound ID	bowieh	01/28/20 09:37
trans-1,2-Dichloroethene		Invalid Compound ID	bowieh	01/28/20 09:37

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Pittsb Job No.: 180-101459-1

SDG No.: \_\_\_\_\_

Instrument ID: CHHP6 Analysis Batch Number: 304996

Lab Sample ID: 180-101459-8 Client Sample ID: HD-COD-SW-7-0/1-0

Date Analyzed: 01/25/20 17:05 Lab File ID: 6012515.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	01/28/20 09:37
Vinyl chloride		Invalid Compound ID	bowieh	01/28/20 09:00

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Pittsb Job No.: 180-101459-1

SDG No.: \_\_\_\_\_

Instrument ID: CHHP6 Analysis Batch Number: 304996Lab Sample ID: 180-101459-9 Client Sample ID: HD-COD-SW-27-0/1-0Date Analyzed: 01/25/20 17:32 Lab File ID: 6012516.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	1.84	Poor chromatography	bowieh	01/28/20 09:38
Carbon disulfide	3.67	Poor chromatography	bowieh	01/28/20 09:38
Chloroform	6.42	Poor chromatography	bowieh	01/28/20 09:39
Toluene	9.03	Poor chromatography	bowieh	01/28/20 09:40
1,1,1,2-Tetrachloroethane		Invalid Compound ID	bowieh	01/28/20 09:40
1,1,1-Trichloroethane		Invalid Compound ID	bowieh	01/28/20 09:39
1,1,2,2-Tetrachloroethane		Invalid Compound ID	bowieh	01/28/20 09:40
1,1,2-Trichloroethane		Invalid Compound ID	bowieh	01/28/20 09:40
1,1-Dichloroethene		Invalid Compound ID	bowieh	01/28/20 09:38
1,2-Dibromoethane (EDB)		Invalid Compound ID	bowieh	01/28/20 09:40
1,2-Dichloroethane		Invalid Compound ID	bowieh	01/28/20 09:39
1,2-Dichloropropane		Invalid Compound ID	bowieh	01/28/20 09:40
2-Butanone (MEK)		Invalid Compound ID	bowieh	01/28/20 09:38
2-Hexanone		Invalid Compound ID	bowieh	01/28/20 09:40
4-Methyl-2-pentanone (MIBK)		Invalid Compound ID	bowieh	01/28/20 09:40
Acrylonitrile		Invalid Compound ID	bowieh	01/28/20 09:38
Benzene		Invalid Compound ID	bowieh	01/28/20 09:39
Bromochloromethane		Invalid Compound ID	bowieh	01/28/20 09:39
Bromodichloromethane		Invalid Compound ID	bowieh	01/28/20 09:40
Bromomethane		Invalid Compound ID	bowieh	01/28/20 09:38
Carbon tetrachloride		Invalid Compound ID	bowieh	01/28/20 09:39
Chlorobenzene		Invalid Compound ID	bowieh	01/28/20 09:40
Chloroethane		Invalid Compound ID	bowieh	01/28/20 09:38
cis-1,2-Dichloroethene		Invalid Compound ID	bowieh	01/28/20 09:38
cis-1,3-Dichloropropene		Invalid Compound ID	bowieh	01/28/20 09:40
Dibromochloromethane		Invalid Compound ID	bowieh	01/28/20 09:40
Ethylbenzene		Invalid Compound ID	bowieh	01/28/20 09:40
Methyl tert-butyl ether		Invalid Compound ID	bowieh	01/28/20 09:38
m-Xylene & p-Xylene		Invalid Compound ID	bowieh	01/28/20 09:40
o-Xylene		Invalid Compound ID	bowieh	01/28/20 09:40

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Pittsb Job No.: 180-101459-1

SDG No.: \_\_\_\_\_

Instrument ID: CHHP6 Analysis Batch Number: 304996

Lab Sample ID: 180-101459-9 Client Sample ID: HD-COD-SW-27-0/1-0

Date Analyzed: 01/25/20 17:32 Lab File ID: 6012516.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Styrene		Invalid Compound ID	bowieh	01/28/20 09:40
Tetrachloroethene		Invalid Compound ID	bowieh	01/28/20 09:40
trans-1,2-Dichloroethene		Invalid Compound ID	bowieh	01/28/20 09:38
trans-1,3-Dichloropropene		Invalid Compound ID	bowieh	01/28/20 09:40
Trichloroethene		Invalid Compound ID	bowieh	01/28/20 09:40
Vinyl chloride		Invalid Compound ID	bowieh	01/28/20 09:38

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Pittsb Job No.: 180-101459-1

SDG No.: \_\_\_\_\_

Instrument ID: CHHP6 Analysis Batch Number: 304996Lab Sample ID: 180-101459-11 Client Sample ID: HD-QC1-0/1-1Date Analyzed: 01/25/20 17:59 Lab File ID: 6012517.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1-Dichloroethene	3.37	Invalid Compound ID	bowieh	01/28/20 09:41
Acetone	3.46	Poor chromatography	bowieh	01/28/20 09:41
Methylene Chloride	4.17	Poor chromatography	bowieh	01/28/20 09:41
Toluene	9.01	Poor chromatography	bowieh	01/28/20 09:41
Tetrachloroethene	9.53	Invalid Compound ID	bowieh	01/28/20 09:41
1,1,1,2-Tetrachloroethane		Invalid Compound ID	bowieh	01/28/20 09:41
1,1,1-Trichloroethane		Invalid Compound ID	bowieh	01/28/20 09:41
1,1,2,2-Tetrachloroethane		Invalid Compound ID	bowieh	01/28/20 09:42
1,1,2-Trichloroethane		Invalid Compound ID	bowieh	01/28/20 09:41
1,2-Dibromoethane (EDB)		Invalid Compound ID	bowieh	01/28/20 09:41
1,2-Dichloroethane		Invalid Compound ID	bowieh	01/28/20 09:41
1,2-Dichloropropane		Invalid Compound ID	bowieh	01/28/20 09:41
2-Butanone (MEK)		Invalid Compound ID	bowieh	01/28/20 09:41
2-Hexanone		Invalid Compound ID	bowieh	01/28/20 09:41
4-Methyl-2-pentanone (MIBK)		Invalid Compound ID	bowieh	01/28/20 09:41
Acrylonitrile		Invalid Compound ID	bowieh	01/28/20 09:41
Benzene		Invalid Compound ID	bowieh	01/28/20 09:41
Bromochloromethane		Invalid Compound ID	bowieh	01/28/20 09:41
Bromodichloromethane		Invalid Compound ID	bowieh	01/28/20 09:41
Bromoform		Invalid Compound ID	bowieh	01/28/20 09:42
Bromomethane		Invalid Compound ID	bowieh	01/28/20 09:40
Carbon disulfide		Invalid Compound ID	bowieh	01/28/20 09:41
Carbon tetrachloride		Invalid Compound ID	bowieh	01/28/20 09:41
Chlorobenzene		Invalid Compound ID	bowieh	01/28/20 09:41
Chloroethane		Invalid Compound ID	bowieh	01/28/20 09:41
Chloroform		Invalid Compound ID	bowieh	01/28/20 09:41
Chloromethane		Invalid Compound ID	bowieh	01/28/20 09:40
cis-1,2-Dichloroethene		Invalid Compound ID	bowieh	01/28/20 09:41
cis-1,3-Dichloropropene		Invalid Compound ID	bowieh	01/28/20 09:41
Dibromochloromethane		Invalid Compound ID	bowieh	01/28/20 09:41

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Pittsb Job No.: 180-101459-1

SDG No.: \_\_\_\_\_

Instrument ID: CHHP6 Analysis Batch Number: 304996

Lab Sample ID: 180-101459-11 Client Sample ID: HD-QC1-0/1-1

Date Analyzed: 01/25/20 17:59 Lab File ID: 6012517.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethylbenzene		Invalid Compound ID	bowieh	01/28/20 09:41
Methyl tert-butyl ether		Invalid Compound ID	bowieh	01/28/20 09:41
m-Xylene & p-Xylene		Invalid Compound ID	bowieh	01/28/20 09:41
o-Xylene		Invalid Compound ID	bowieh	01/28/20 09:41
Styrene		Invalid Compound ID	bowieh	01/28/20 09:42
trans-1,2-Dichloroethene		Invalid Compound ID	bowieh	01/28/20 09:41
trans-1,3-Dichloropropene		Invalid Compound ID	bowieh	01/28/20 09:41
Vinyl chloride		Invalid Compound ID	bowieh	01/28/20 09:40

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Pittsb Job No.: 180-101459-1

SDG No.: \_\_\_\_\_

Instrument ID: CHHP6 Analysis Batch Number: 304996Lab Sample ID: 180-101459-12 Client Sample ID: HD-COD-SW-9-0/1-0Date Analyzed: 01/25/20 18:26 Lab File ID: 6012518.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	1.83	Poor chromatography	bowieh	01/28/20 09:42
Acetone	3.47	Poor chromatography	bowieh	01/28/20 09:42
1,1,1,2-Tetrachloroethane		Invalid Compound ID	bowieh	01/28/20 09:43
1,1,1-Trichloroethane		Invalid Compound ID	bowieh	01/28/20 09:42
1,1,2,2-Tetrachloroethane		Invalid Compound ID	bowieh	01/28/20 09:43
1,1,2-Trichloroethane		Invalid Compound ID	bowieh	01/28/20 09:43
1,2-Dibromoethane (EDB)		Invalid Compound ID	bowieh	01/28/20 09:43
1,2-Dichloroethane		Invalid Compound ID	bowieh	01/28/20 09:43
1,2-Dichloropropane		Invalid Compound ID	bowieh	01/28/20 09:43
2-Butanone (MEK)		Invalid Compound ID	bowieh	01/28/20 09:42
2-Hexanone		Invalid Compound ID	bowieh	01/28/20 09:43
4-Methyl-2-pentanone (MIBK)		Invalid Compound ID	bowieh	01/28/20 09:43
Acrylonitrile		Invalid Compound ID	bowieh	01/28/20 09:42
Benzene		Invalid Compound ID	bowieh	01/28/20 09:43
Bromodichloromethane		Invalid Compound ID	bowieh	01/28/20 09:43
Bromomethane		Invalid Compound ID	bowieh	01/28/20 09:42
Carbon disulfide		Invalid Compound ID	bowieh	01/28/20 09:42
Carbon tetrachloride		Invalid Compound ID	bowieh	01/28/20 09:42
Chlorobenzene		Invalid Compound ID	bowieh	01/28/20 09:43
Chloroethane		Invalid Compound ID	bowieh	01/28/20 09:42
Chloroform		Invalid Compound ID	bowieh	01/28/20 09:42
cis-1,2-Dichloroethene		Invalid Compound ID	bowieh	01/28/20 09:42
cis-1,3-Dichloropropene		Invalid Compound ID	bowieh	01/28/20 09:43
Dibromochloromethane		Invalid Compound ID	bowieh	01/28/20 09:43
Ethylbenzene		Invalid Compound ID	bowieh	01/28/20 09:43
Methyl tert-butyl ether		Invalid Compound ID	bowieh	01/28/20 09:42
m-Xylene & p-Xylene		Invalid Compound ID	bowieh	01/28/20 09:43
o-Xylene		Invalid Compound ID	bowieh	01/28/20 09:43
Styrene		Invalid Compound ID	bowieh	01/28/20 09:43
trans-1,2-Dichloroethene		Invalid Compound ID	bowieh	01/28/20 09:42



GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Pittsb Job No.: 180-101459-1

SDG No.: \_\_\_\_\_

Instrument ID: CHHP6 Analysis Batch Number: 304996

Lab Sample ID: 180-101459-12 Client Sample ID: HD-COD-SW-9-0/1-0

Date Analyzed: 01/25/20 18:26 Lab File ID: 6012518.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	01/28/20 09:43
Trichloroethene		Invalid Compound ID	bowieh	01/28/20 09:43
Vinyl chloride		Invalid Compound ID	bowieh	01/28/20 09:42

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Pittsb Job No.: 180-101459-1

SDG No.: \_\_\_\_\_

Instrument ID: CHHP6 Analysis Batch Number: 304996Lab Sample ID: 180-101459-13 Client Sample ID: HD-COD-SW-28-0/1-0Date Analyzed: 01/25/20 18:54 Lab File ID: 6012519.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	1.83	Poor chromatography	bowieh	01/28/20 09:43
Methylene Chloride	4.16	Poor chromatography	bowieh	01/28/20 09:44
Toluene	9.03	Poor chromatography	bowieh	01/28/20 09:44
Tetrachloroethene	9.53	Invalid Compound ID	bowieh	01/28/20 09:45
1,1,1,2-Tetrachloroethane		Invalid Compound ID	bowieh	01/28/20 09:45
1,1,1-Trichloroethane		Invalid Compound ID	bowieh	01/28/20 09:44
1,1,2,2-Tetrachloroethane		Invalid Compound ID	bowieh	01/28/20 09:45
1,1,2-Trichloroethane		Invalid Compound ID	bowieh	01/28/20 09:45
1,1-Dichloroethene		Invalid Compound ID	bowieh	01/28/20 09:44
1,2-Dibromoethane (EDB)		Invalid Compound ID	bowieh	01/28/20 09:45
1,2-Dichloroethane		Invalid Compound ID	bowieh	01/28/20 09:44
1,2-Dichloropropane		Invalid Compound ID	bowieh	01/28/20 09:44
2-Butanone (MEK)		Invalid Compound ID	bowieh	01/28/20 09:44
2-Hexanone		Invalid Compound ID	bowieh	01/28/20 09:45
4-Methyl-2-pentanone (MIBK)		Invalid Compound ID	bowieh	01/28/20 09:44
Acrylonitrile		Invalid Compound ID	bowieh	01/28/20 09:44
Benzene		Invalid Compound ID	bowieh	01/28/20 09:44
Bromochloromethane		Invalid Compound ID	bowieh	01/28/20 09:44
Bromodichloromethane		Invalid Compound ID	bowieh	01/28/20 09:44
Bromomethane		Invalid Compound ID	bowieh	01/28/20 09:44
Carbon disulfide		Invalid Compound ID	bowieh	01/28/20 09:44
Carbon tetrachloride		Invalid Compound ID	bowieh	01/28/20 09:44
Chlorobenzene		Invalid Compound ID	bowieh	01/28/20 09:45
Chloroethane		Invalid Compound ID	bowieh	01/28/20 09:44
cis-1,2-Dichloroethene		Invalid Compound ID	bowieh	01/28/20 09:44
cis-1,3-Dichloropropene		Invalid Compound ID	bowieh	01/28/20 09:44
Dibromochloromethane		Invalid Compound ID	bowieh	01/28/20 09:45
Ethylbenzene		Invalid Compound ID	bowieh	01/28/20 09:45
Methyl tert-butyl ether		Invalid Compound ID	bowieh	01/28/20 09:44
m-Xylene & p-Xylene		Invalid Compound ID	bowieh	01/28/20 09:45

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Pittsb Job No.: 180-101459-1

SDG No.: \_\_\_\_\_

Instrument ID: CHHP6 Analysis Batch Number: 304996

Lab Sample ID: 180-101459-13 Client Sample ID: HD-COD-SW-28-0/1-0

Date Analyzed: 01/25/20 18:54 Lab File ID: 6012519.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
o-Xylene		Invalid Compound ID	bowieh	01/28/20 09:45
Styrene		Invalid Compound ID	bowieh	01/28/20 09:45
trans-1,2-Dichloroethene		Invalid Compound ID	bowieh	01/28/20 09:44
trans-1,3-Dichloropropene		Invalid Compound ID	bowieh	01/28/20 09:44
Trichloroethene		Invalid Compound ID	bowieh	01/28/20 09:44
Vinyl chloride		Invalid Compound ID	bowieh	01/28/20 09:44

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Pittsb Job No.: 180-101459-1

SDG No.: \_\_\_\_\_

Instrument ID: CHHP6 Analysis Batch Number: 304996Lab Sample ID: 180-101459-14 Client Sample ID: HD-QC1-0/1-2Date Analyzed: 01/25/20 19:21 Lab File ID: 6012520.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	01/28/20 09:46
1,1,1-Trichloroethane		Invalid Compound ID	bowieh	01/28/20 09:45
1,1,2,2-Tetrachloroethane		Invalid Compound ID	bowieh	01/28/20 09:46
1,1,2-Trichloroethane		Invalid Compound ID	bowieh	01/28/20 09:46
1,2-Dibromoethane (EDB)		Invalid Compound ID	bowieh	01/28/20 09:46
1,2-Dichloroethane		Invalid Compound ID	bowieh	01/28/20 09:45
1,2-Dichloropropane		Invalid Compound ID	bowieh	01/28/20 09:45
2-Butanone (MEK)		Invalid Compound ID	bowieh	01/28/20 09:45
2-Hexanone		Invalid Compound ID	bowieh	01/28/20 09:46
4-Methyl-2-pentanone (MIBK)		Invalid Compound ID	bowieh	01/28/20 09:46
Acetone		Invalid Compound ID	bowieh	01/28/20 09:45
Acrylonitrile		Invalid Compound ID	bowieh	01/28/20 09:45
Benzene		Invalid Compound ID	bowieh	01/28/20 09:45
Bromodichloromethane		Invalid Compound ID	bowieh	01/28/20 09:46
Bromomethane		Invalid Compound ID	bowieh	01/28/20 09:45
Carbon disulfide		Invalid Compound ID	bowieh	01/28/20 09:45
Carbon tetrachloride		Invalid Compound ID	bowieh	01/28/20 09:45
Chlorobenzene		Invalid Compound ID	bowieh	01/28/20 09:46
Chloroethane		Invalid Compound ID	bowieh	01/28/20 09:45
Chloroform		Invalid Compound ID	bowieh	01/28/20 09:45
Chloromethane		Invalid Compound ID	bowieh	01/28/20 09:45
cis-1,2-Dichloroethene		Invalid Compound ID	bowieh	01/28/20 09:45
cis-1,3-Dichloropropene		Invalid Compound ID	bowieh	01/28/20 09:46
Dibromochloromethane		Invalid Compound ID	bowieh	01/28/20 09:46
Ethylbenzene		Invalid Compound ID	bowieh	01/28/20 09:46
Methyl tert-butyl ether		Invalid Compound ID	bowieh	01/28/20 09:45
m-Xylene & p-Xylene		Invalid Compound ID	bowieh	01/28/20 09:46
o-Xylene		Invalid Compound ID	bowieh	01/28/20 09:46
Styrene		Invalid Compound ID	bowieh	01/28/20 09:46
Tetrachloroethene		Invalid Compound ID	bowieh	01/28/20 09:46

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Pittsb Job No.: 180-101459-1

SDG No.: \_\_\_\_\_

Instrument ID: CHHP6 Analysis Batch Number: 304996Lab Sample ID: 180-101459-14 Client Sample ID: HD-QC1-0/1-2Date Analyzed: 01/25/20 19:21 Lab File ID: 6012520.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	01/28/20 09:45
trans-1,3-Dichloropropene		Invalid Compound ID	bowieh	01/28/20 09:46
Trichloroethene		Invalid Compound ID	bowieh	01/28/20 09:45
Vinyl chloride		Invalid Compound ID	bowieh	01/28/20 09:45

Lab Sample ID: 180-101459-10 MSD Client Sample ID: HD-COD-SW-15-0/1-0 MSDDate Analyzed: 01/25/20 20:15 Lab File ID: 6012522.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	3.47	Poor chromatography	bowieh	01/28/20 09:47

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-101459-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
VOA BFB25_00005							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							Tentatively Identified Compound	
							Total BTEX	
							Xylenes, Total	
					VOABFB50 00122	5 mL	BFB	25 ug/mL
.VOABFB50 00122	01/16/20	12/16/19	Methanol, Lot 3167189	50 mL	VOABFBRES 00086	1 mL	BFB	50 ug/mL
..VOABFBRES 00086	04/30/24		Restek, Lot A0147670		(Purchased Reagent)		BFB	2500 ug/mL
VOA BFB25_00006							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							Tentatively Identified Compound	
							Total BTEX	
							Xylenes, Total	
					VOABFB50 00123	5 mL	BFB	25 ug/mL
.VOABFB50 00123	02/16/20	01/16/20	Methanol, Lot 3167189	50 mL	VOABFBRES_00085	1 mL	BFB	50 ug/mL
..VOABFBRES 00085	04/30/24		Restek, Lot A0147670		(Purchased Reagent)		BFB	2500 ug/mL
VOA8260INT_00102	01/06/20	12/06/19	Methanol, Lot 3167189	10 mL	VOA8260INTRES_00168	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_00168	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
VOA8260INT_00103	02/07/20	01/07/20	Methanol, Lot 3167192	10 mL	VOA8260INTRES_00161	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_00161	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_00102	01/06/20	12/06/19	Methanol, Lot 3167189	100 mL	VOA8260SURRES_00141	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_00141	11/30/22		Restek, Lot A0132615		(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
VOA8260SURR_00103	02/07/20	01/07/20	Methanol, Lot 3167192	100 mL	VOA8260SURRES_00152	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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-101459-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration		
					Reagent ID	Volume Added				
.VOA8260SURRES_00152	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_00385	01/06/20	12/31/19	Methanol, Lot 3167194	10 mL	VOA8260GAS1ST_00288	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		
							VOA8260VOA_00003	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				
					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									

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-101459-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							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_00288	03/31/22		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



REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-101459-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.VOA8260VOA_00003	01/06/20	12/06/19	Methanol, Lot 3167189	10 mL	VOA8260KET1ST_00135	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
							1,1,1,2-Tetrachloroethane	250 ug/mL
					VOA8260MEGA1_00095	1 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							
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-Dichloropropane	250 ug/mL							
Cyclohexane	250 ug/mL							
Dibromochloromethane	250 ug/mL							
Dibromomethane	250 ug/mL							

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-101459-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00135	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_00095	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
							1,1,2-Trichloro-1,2,2-trifluor oethane	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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-101459-1

SDG No.: \_\_\_\_\_

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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-101459-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration					
					Reagent ID	Volume Added							
							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_00388	02/01/20	01/25/20	Methanol, Lot 3167194	10 mL	VOA8260GAS1ST_00287	0.1 mL	Bromomethane	25 ug/mL					
							Chloroethane	25 ug/mL					
							Chloromethane	25 ug/mL					
							Vinyl chloride	25 ug/mL					
					VOA8260VOA_00005						1 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-Trichloroethane	25 ug/mL
												1,1-Dichloroethane	25 ug/mL
												1,1-Dichloroethene	25 ug/mL
												1,2-Dibromoethane (EDB)	25 ug/mL
												1,2-Dichloroethane	25 ug/mL
												1,2-Dichloropropane	25 ug/mL
												Acrylonitrile	250 ug/mL
												Benzene	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
												Dibromochloromethane	25 ug/mL
												Ethylbenzene	25 ug/mL
												Methyl tert-butyl ether	25 ug/mL
												Methylene Chloride	25 ug/mL
												Styrene	25 ug/mL
												Tetrachloroethene	25 ug/mL
												Toluene	25 ug/mL
												trans-1,2-Dichloroethene	25 ug/mL
												trans-1,3-Dichloropropene	25 ug/mL
Trichloroethene	25 ug/mL												
Xylenes, Total	50 ug/mL												
.VOA8260GAS1ST_00287	03/31/22		Restek, Lot A0146651				(Purchased Reagent)	Bromomethane	2500 ug/mL				
							Chloroethane	2500 ug/mL					
							Chloromethane	2500 ug/mL					
							Vinyl chloride	2500 ug/mL					

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-101459-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.VOA8260VOA_00005	02/06/20	01/06/20	Methanol, Lot 3167192	10 mL	VOA8260MEGA1_00092	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-Trichloroethane	250 ug/mL
							1,1-Dichloroethane	250 ug/mL
							1,1-Dichloroethene	250 ug/mL
							1,2-Dibromoethane (EDB)	250 ug/mL
							1,2-Dichloroethane	250 ug/mL
							1,2-Dichloropropane	250 ug/mL
							Acrylonitrile	2500 ug/mL
							Benzene	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
							Dibromochloromethane	250 ug/mL
							Ethylbenzene	250 ug/mL
							Methyl tert-butyl ether	250 ug/mL
							Methylene Chloride	250 ug/mL
							Styrene	250 ug/mL
							Tetrachloroethene	250 ug/mL
							Toluene	250 ug/mL
trans-1,2-Dichloroethene	250 ug/mL							
trans-1,3-Dichloropropene	250 ug/mL							
Trichloroethene	250 ug/mL							
Xylenes, Total	500 ug/mL							
..VOA8260MEGA1_00092	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
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2-Dibromoethane (EDB)	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-101459-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
<b>voaWketmix1st_00021</b>	01/06/20	12/06/19	Methanol, Lot 3167194	50 mL	VOA8260KET1ST_00135	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_00135	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
<b>voaWketmix1st_00022</b>	02/06/20	01/06/20	Methanol, Lot 3167192	50 mL	VOA8260KET1ST_00137	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_00137	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

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**VOA8260GAS1ST\_00287**



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

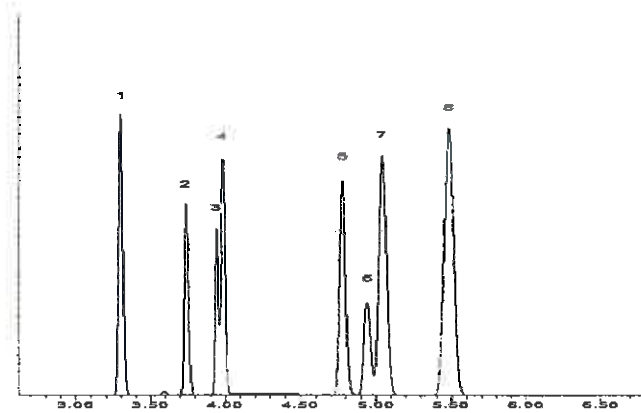
**Carrier Gas:**  
helium-constant pressure 30 psi

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

**Inj. Temp:**  
230°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 Suckal*  
Tom Suckal - 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/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](http://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](http://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

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**VOA8260GAS1ST\_00288**



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

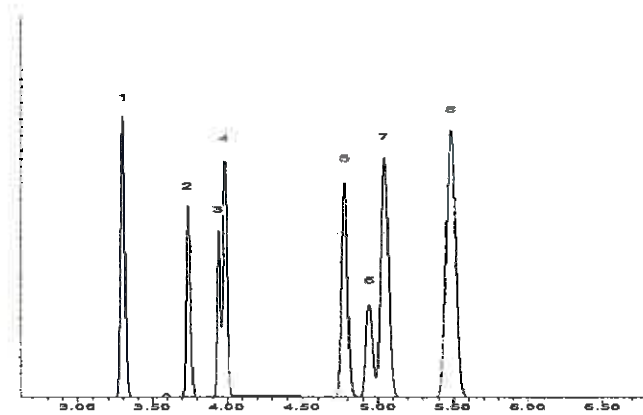
**Carrier Gas:**  
helium-constant pressure 30 psi

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

**Inj. Temp:**  
230°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 Suckal*  
Tom Suckal - 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/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](http://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](http://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

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**VOA8260INTRES\_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. :** 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	µg/mL	Gravimetric
1	tert-Butyl-d9-alcohol CAS # 25725-11-5 Purity 98% (Lot CD-107)	5,044.0 µg/mL	+/-	29.3246	µg/mL	Gravimetric
			+/-	107.9918	µg/mL	Unstressed
			+/-	111.1314	µg/mL	Stressed
2	2-Butanone-d5 CAS # 24313-50-6 Purity 99% (Lot M-276)	1,254.2 µg/mL	+/-	7.2922	µg/mL	Gravimetric
			+/-	26.8533	µg/mL	Unstressed
			+/-	27.6340	µg/mL	Stressed
3	Fluorobenzene CAS # 462-06-6 Purity 99% (Lot BCBK8171V)	252.1 µg/mL	+/-	1.4689	µg/mL	Gravimetric
			+/-	5.3977	µg/mL	Unstressed
			+/-	5.5545	µg/mL	Stressed
4	1,4-Dioxane-d8 CAS # 17647-74-4 Purity 99% (Lot I-19942)	5,027.8 µg/mL	+/-	29.2304	µg/mL	Gravimetric
			+/-	107.6448	µg/mL	Unstressed
			+/-	110.7743	µg/mL	Stressed
5	Chlorobenzene-d5 CAS # 3114-55-4 Purity 99% (Lot PR-23926)	250.6 µg/mL	+/-	1.4603	µg/mL	Gravimetric
			+/-	5.3661	µg/mL	Unstressed
			+/-	5.5220	µg/mL	Stressed
6	1,4-Dichlorobenzene-d4 CAS # 3855-82-1 Purity 99% (Lot PR-18488)	251.6 µg/mL	+/-	1.4660	µg/mL	Gravimetric
			+/-	5.3871	µg/mL	Unstressed
			+/-	5.5436	µg/mL	Stressed

Reagent

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**VOA8260INTRES\_00168**



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

Reagent

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**VOA8260KET1ST\_00135**



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

www.restek.com

# 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)

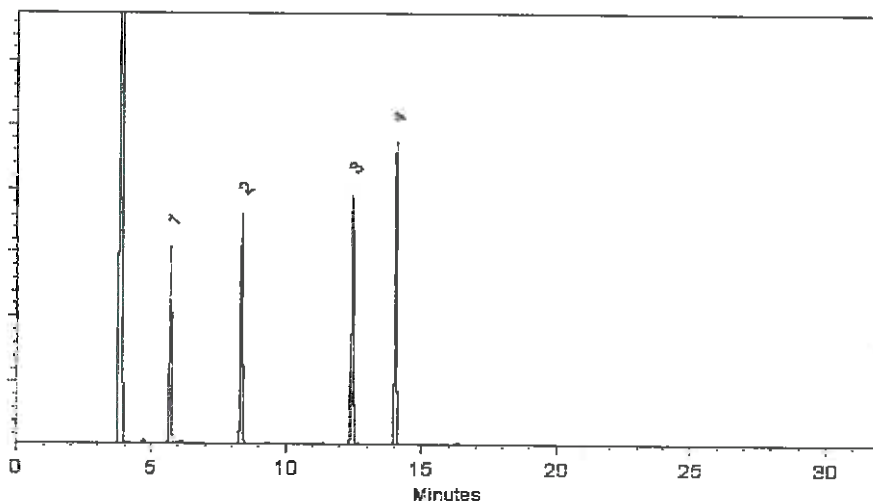
**Carrier Gas:**  
hydrogen-constant pressure 11.0 psi.

**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/ $\mu$ 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](http://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](http://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

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**VOA8260KET1ST\_00137**



# 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. : 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 SHBF2461V)		+/-	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)

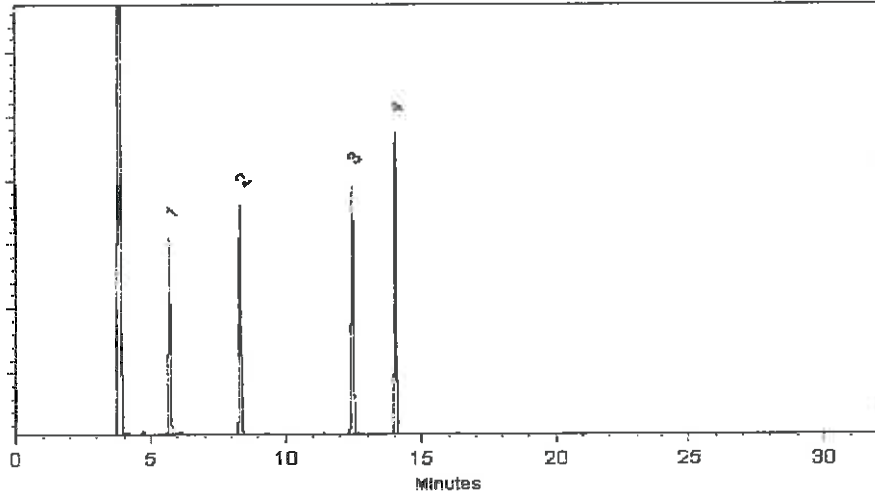
**Carrier Gas:**  
hydrogen-constant pressure 11.0 psi.

**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 Tallon - Mix. Technician

**Date Mixed:** 11-Dec-2018      **Balance:** B251644995

  
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/ $\mu$ 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](http://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](http://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

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**VOA8260MEGA1\_00092**



# 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. : 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	Lot	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	Method
1	Diethyl ether (ethyl ether)	(Lot SHBI5713)	2,500.6 µg/mL	+/- 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)	(Lot 00009482)	2,501.6 µg/mL	+/- 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	(Lot SHBG8609V)	2,501.9 µg/mL	+/- 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)	(Lot SHBJ9404)	25,008.1 µg/mL	+/- 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	(Lot SHBG4345V)	5,000.8 µg/mL	+/- 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)	(Lot SHBH4362V)	2,500.6 µg/mL	+/- 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 )	(Lot WXBB7852V)	2,502.0 µg/mL	+/- 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)	2,500.8	µg/mL	+/-	14.5396	µg/mL	Gravimetric
	<b>CAS #</b> 75-09-2 (Lot SHBK5095)			+/-	150.8813	µg/mL	Unstressed
	<b>Purity</b> 99%			+/-	151.2395	µg/mL	Stressed
9	Carbon disulfide	2,501.1	µg/mL	+/-	14.5418	µg/mL	Gravimetric
	<b>CAS #</b> 75-15-0 (Lot U22D706)			+/-	150.9040	µg/mL	Unstressed
	<b>Purity</b> 99%			+/-	151.2622	µg/mL	Stressed
10	Acrylonitrile	25,010.4	µg/mL	+/-	145.4049	µg/mL	Gravimetric
	<b>CAS #</b> 107-13-1 (Lot R15D047)			+/-	1,508.9360	µg/mL	Unstressed
	<b>Purity</b> 99%			+/-	1,512.5686	µg/mL	Stressed
11	Methyl-tert-butyl ether ( MTBE )	2,500.3	µg/mL	+/-	14.5367	µg/mL	Gravimetric
	<b>CAS #</b> 1634-04-4 (Lot SHBH9526)			+/-	150.8512	µg/mL	Unstressed
	<b>Purity</b> 99%			+/-	151.2093	µg/mL	Stressed
12	cis-1,2-Dichloroethene	2,501.3	µg/mL	+/-	14.5425	µg/mL	Gravimetric
	<b>CAS #</b> 156-59-2 (Lot MKBX5945V)			+/-	150.9115	µg/mL	Unstressed
	<b>Purity</b> 99%			+/-	151.2698	µg/mL	Stressed
13	n-Hexane (C6)	2,500.8	µg/mL	+/-	14.5396	µg/mL	Gravimetric
	<b>CAS #</b> 110-54-3 (Lot SHBH8106)			+/-	150.8813	µg/mL	Unstressed
	<b>Purity</b> 99%			+/-	151.2395	µg/mL	Stressed
14	1,1-Dichloroethane	2,500.4	µg/mL	+/-	14.5374	µg/mL	Gravimetric
	<b>CAS #</b> 75-34-3 (Lot 462600)			+/-	150.8587	µg/mL	Unstressed
	<b>Purity</b> 99%			+/-	151.2169	µg/mL	Stressed
15	2,2-Dichloropropane	2,500.9	µg/mL	+/-	14.5403	µg/mL	Gravimetric
	<b>CAS #</b> 594-20-7 (Lot BCBT5124)			+/-	150.8889	µg/mL	Unstressed
	<b>Purity</b> 99%			+/-	151.2471	µg/mL	Stressed
16	trans-1,2-Dichloroethene	2,500.3	µg/mL	+/-	14.5367	µg/mL	Gravimetric
	<b>CAS #</b> 156-60-5 (Lot MKBH9850V)			+/-	150.8512	µg/mL	Unstressed
	<b>Purity</b> 99%			+/-	151.2093	µg/mL	Stressed
17	Isobutanol (2-Methyl-1-propanol)	62,500.9	µg/mL	+/-	363.3665	µg/mL	Gravimetric
	<b>CAS #</b> 78-83-1 (Lot SHBK0551)			+/-	3,770.9529	µg/mL	Unstressed
	<b>Purity</b> 99%			+/-	3,779.9058	µg/mL	Stressed
18	chloroform	2,500.5	µg/mL	+/-	14.5381	µg/mL	Gravimetric
	<b>CAS #</b> 67-66-3 (Lot SHBJ9076)			+/-	150.8662	µg/mL	Unstressed
	<b>Purity</b> 99%			+/-	151.2244	µg/mL	Stressed
19	Bromochloromethane	2,500.6	µg/mL	+/-	14.5387	µg/mL	Gravimetric
	<b>CAS #</b> 74-97-5 (Lot 00008541)			+/-	150.8718	µg/mL	Unstressed
	<b>Purity</b> 98%			+/-	151.2300	µg/mL	Stressed
20	Tetrahydrofuran	5,000.6	µg/mL	+/-	29.0741	µg/mL	Gravimetric
	<b>CAS #</b> 109-99-9 (Lot SHBJ6179)			+/-	301.7099	µg/mL	Unstressed
	<b>Purity</b> 99%			+/-	302.4262	µg/mL	Stressed
21	1,1,1-trichloroethane	2,500.8	µg/mL	+/-	14.5396	µg/mL	Gravimetric
	<b>CAS #</b> 71-55-6 (Lot B15W12061)			+/-	150.8813	µg/mL	Unstressed
	<b>Purity</b> 99%			+/-	151.2395	µg/mL	Stressed
22	Cyclohexane	2,500.9	µg/mL	+/-	14.5403	µg/mL	Gravimetric
	<b>CAS #</b> 110-82-7 (Lot MKCC9660)			+/-	150.8889	µg/mL	Unstressed
	<b>Purity</b> 99%			+/-	151.2471	µg/mL	Stressed
23	1,1-Dichloropropene	2,500.6	µg/mL	+/-	14.5388	µg/mL	Gravimetric
	<b>CAS #</b> 563-58-6 (Lot 180531JLM)			+/-	150.8738	µg/mL	Unstressed
	<b>Purity</b> 99%			+/-	151.2320	µg/mL	Stressed

24	carbon tetrachloride CAS # 56-23-5 Purity 99%	(Lot SHBJ2110)	2,501.1 µg/mL	+/-	14.5418 µg/mL 150.9040 µg/mL 151.2622 µg/mL	Gravimetric Unstressed Stressed
25	n-Heptane (C7) CAS # 142-82-5 Purity 99%	(Lot SHBJ2424)	2,501.6 µg/mL	+/-	14.5447 µg/mL 150.9341 µg/mL 151.2925 µg/mL	Gravimetric Unstressed Stressed
26	1,2-Dichloroethane CAS # 107-06-2 Purity 99%	(Lot SHBJ0707)	2,501.3 µg/mL	+/-	14.5425 µg/mL 150.9115 µg/mL 151.2698 µg/mL	Gravimetric Unstressed Stressed
27	Benzene CAS # 71-43-2 Purity 99%	(Lot SHBJ5344)	2,500.9 µg/mL	+/-	14.5403 µg/mL 150.8889 µg/mL 151.2471 µg/mL	Gravimetric Unstressed Stressed
28	Trichloroethene CAS # 79-01-6 Purity 99%	(Lot SHBH1955V)	2,500.5 µg/mL	+/-	14.5381 µg/mL 150.8662 µg/mL 151.2244 µg/mL	Gravimetric Unstressed Stressed
29	Methylcyclohexane CAS # 108-87-2 Purity 99%	(Lot SHBJ0457)	2,501.6 µg/mL	+/-	14.5447 µg/mL 150.9341 µg/mL 151.2925 µg/mL	Gravimetric Unstressed Stressed
30	1,2-Dichloropropane CAS # 78-87-5 Purity 99%	(Lot BCBR0882V)	2,500.5 µg/mL	+/-	14.5381 µg/mL 150.8662 µg/mL 151.2244 µg/mL	Gravimetric Unstressed Stressed
31	1,4-Dioxane CAS # 123-91-1 Purity 99%	(Lot SHBJ7415)	50,001.1 µg/mL	+/-	290.6957 µg/mL 3,016.7880 µg/mL 3,023.9503 µg/mL	Gravimetric Unstressed Stressed
32	Dibromomethane CAS # 74-95-3 Purity 99%	(Lot 10201030)	2,502.0 µg/mL	+/-	14.5468 µg/mL 150.9567 µg/mL 151.3151 µg/mL	Gravimetric Unstressed Stressed
33	cis-1,3-Dichloropropene CAS # 10061-01-5 Purity 99%	(Lot 25076)	2,501.4 µg/mL	+/-	14.5432 µg/mL 150.9190 µg/mL 151.2773 µg/mL	Gravimetric Unstressed Stressed
34	Toluene CAS # 108-88-3 Purity 99%	(Lot SHBJ5659)	2,500.1 µg/mL	+/-	14.5359 µg/mL 150.8436 µg/mL 151.2017 µg/mL	Gravimetric Unstressed Stressed
35	Ethyl methacrylate CAS # 97-63-2 Purity 99%	(Lot 69796APV)	2,502.8 µg/mL	+/-	14.5512 µg/mL 151.0020 µg/mL 151.3605 µg/mL	Gravimetric Unstressed Stressed
36	trans-1,3-Dichloropropene CAS # 10061-02-6 Purity 98%	(Lot C797620)	2,500.6 µg/mL	+/-	14.5387 µg/mL 150.8718 µg/mL 151.2300 µg/mL	Gravimetric Unstressed Stressed
37	1,1,2-Trichloroethane CAS # 79-00-5 Purity 99%	(Lot FGB01)	2,500.4 µg/mL	+/-	14.5374 µg/mL 150.8587 µg/mL 151.2169 µg/mL	Gravimetric Unstressed Stressed
38	1,3-Dichloropropane CAS # 142-28-9 Purity 99%	(Lot BCBG2162V)	2,500.9 µg/mL	+/-	14.5403 µg/mL 150.8889 µg/mL 151.2471 µg/mL	Gravimetric Unstressed Stressed
39	Tetrachloroethene CAS # 127-18-4 Purity 99%	(Lot SHBH9691)	2,501.0 µg/mL	+/-	14.5410 µg/mL 150.8964 µg/mL 151.2547 µg/mL	Gravimetric Unstressed 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	1,1,1,2-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	µg/mL	Gravimetric
				+/-	150.8436	µg/mL	Unstressed
				+/-	151.2017	µg/mL	Stressed
57	1,3,5-Trimethylbenzene CAS # 108-67-8 Purity 99%	(Lot BCBS7648V)	2,500.5 µg/mL	+/-	14.5381	µg/mL	Gravimetric
				+/-	150.8662	µg/mL	Unstressed
				+/-	151.2244	µg/mL	Stressed
58	2-Chlorotoluene CAS # 95-49-8 Purity 99%	(Lot MKBW5554V)	2,500.1 µg/mL	+/-	14.5359	µg/mL	Gravimetric
				+/-	150.8436	µg/mL	Unstressed
				+/-	151.2017	µg/mL	Stressed
59	4-Chlorotoluene CAS # 106-43-4 Purity 99%	(Lot MKBL7753V)	2,500.9 µg/mL	+/-	14.5403	µg/mL	Gravimetric
				+/-	150.8889	µg/mL	Unstressed
				+/-	151.2471	µg/mL	Stressed
60	tert-Butylbenzene CAS # 98-06-6 Purity 99%	(Lot STBD6954V)	2,500.1 µg/mL	+/-	14.5359	µg/mL	Gravimetric
				+/-	150.8436	µg/mL	Unstressed
				+/-	151.2017	µg/mL	Stressed
61	1,2,4-Trimethylbenzene CAS # 95-63-6 Purity 97%	(Lot MKBH5027V)	2,499.9 µg/mL	+/-	14.5348	µg/mL	Gravimetric
				+/-	150.8320	µg/mL	Unstressed
				+/-	151.1901	µg/mL	Stressed
62	sec-Butylbenzene CAS # 135-98-8 Purity 99%	(Lot MKBR9260V)	2,501.1 µg/mL	+/-	14.5418	µg/mL	Gravimetric
				+/-	150.9040	µg/mL	Unstressed
				+/-	151.2622	µg/mL	Stressed
63	p-Isopropyltoluene (p-Cymene) CAS # 99-87-6 Purity 99%	(Lot MKBV3556V)	2,501.1 µg/mL	+/-	14.5418	µg/mL	Gravimetric
				+/-	150.9040	µg/mL	Unstressed
				+/-	151.2622	µg/mL	Stressed
64	1,3-Dichlorobenzene CAS # 541-73-1 Purity 99%	(Lot BCBQ7100V)	2,501.4 µg/mL	+/-	14.5432	µg/mL	Gravimetric
				+/-	150.9190	µg/mL	Unstressed
				+/-	151.2773	µg/mL	Stressed
65	1,4-Dichlorobenzene CAS # 106-46-7 Purity 99%	(Lot MKBS4401V)	2,501.5 µg/mL	+/-	14.5439	µg/mL	Gravimetric
				+/-	150.9266	µg/mL	Unstressed
				+/-	151.2849	µg/mL	Stressed
66	n-Butylbenzene CAS # 104-51-8 Purity 99%	(Lot 09804AE)	2,501.0 µg/mL	+/-	14.5410	µg/mL	Gravimetric
				+/-	150.8964	µg/mL	Unstressed
				+/-	151.2547	µg/mL	Stressed
67	1,2-Dichlorobenzene CAS # 95-50-1 Purity 99%	(Lot SHBG3111V)	2,502.9 µg/mL	+/-	14.5519	µg/mL	Gravimetric
				+/-	151.0095	µg/mL	Unstressed
				+/-	151.3681	µg/mL	Stressed
68	1,2-Dibromo-3-chloropropane CAS # 96-12-8 Purity 99%	(Lot FBL01)	2,502.0 µg/mL	+/-	14.5468	µg/mL	Gravimetric
				+/-	150.9567	µg/mL	Unstressed
				+/-	151.3151	µg/mL	Stressed
69	1,2,4-Trichlorobenzene CAS # 120-82-1 Purity 99%	(Lot SHBJ9215)	2,502.1 µg/mL	+/-	14.5476	µg/mL	Gravimetric
				+/-	150.9643	µg/mL	Unstressed
				+/-	151.3227	µg/mL	Stressed
70	Hexachlorobutadiene CAS # 87-68-3 Purity 99%	(Lot J31X013)	2,501.5 µg/mL	+/-	14.5439	µg/mL	Gravimetric
				+/-	150.9266	µg/mL	Unstressed
				+/-	151.2849	µg/mL	Stressed
71	Naphthalene CAS # 91-20-3 Purity 99%	(Lot MKBZ8680V)	2,502.8 µg/mL	+/-	14.5512	µg/mL	Gravimetric
				+/-	151.0020	µg/mL	Unstressed
				+/-	151.3605	µg/mL	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)

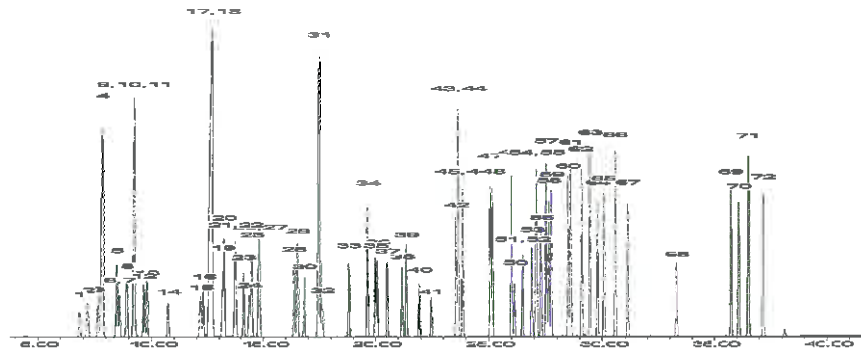
**Carrier Gas:**  
helium-constant pressure 30 psi

**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 Yallon*  
F. Joseph Yallon - 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

## 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/ $\mu$ 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](http://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](http://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

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**VOA8260MEGA1\_00095**





# 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. :** 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	Lot	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Diethyl ether (ethyl ether)	(Lot SHBI5713)	2,500.6 µg/mL	+/- 14.5388	Gravimetric
	CAS # 60-29-7			+/- 150.8738	Unstressed
	Purity 99%			+/- 151.2320	Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113)	(Lot 00009482)	2,501.6 µg/mL	+/- 14.5447	Gravimetric
	CAS # 76-13-1			+/- 150.9341	Unstressed
	Purity 99%			+/- 151.2925	Stressed
3	1,1-dichloroethene	(Lot SHBG8609V)	2,501.9 µg/mL	+/- 14.5461	Gravimetric
	CAS # 75-35-4			+/- 150.9492	Unstressed
	Purity 99%			+/- 151.3076	Stressed
4	tert-Butanol (TBA)	(Lot SHBJ9404)	25,008.1 µg/mL	+/- 145.3918	Gravimetric
	CAS # 75-65-0			+/- 1,508.8503	Unstressed
	Purity 99%			+/- 1,512.4325	Stressed
5	Methyl acetate	(Lot SHBG4345V)	5,000.8 µg/mL	+/- 29.0748	Gravimetric
	CAS # 79-20-9			+/- 301.7174	Unstressed
	Purity 99%			+/- 302.4337	Stressed
6	Iodomethane (methyl iodide)	(Lot SHBH4362V)	2,500.6 µg/mL	+/- 14.5388	Gravimetric
	CAS # 74-88-4			+/- 150.8738	Unstressed
	Purity 99%			+/- 151.2320	Stressed
7	Allyl chloride ( 3-chloropropene )	(Lot WXBB7852V)	2,502.0 µg/mL	+/- 14.5468	Gravimetric
	CAS # 107-05-1			+/- 150.9567	Unstressed
	Purity 99%			+/- 151.3151	Stressed

8	Methylene chloride (dichloromethane)	2,500.8	µg/mL	+/-	14.5396	µg/mL	Gravimetric
	<b>CAS #</b> 75-09-2 (Lot SHBK5095)			+/-	150.8813	µg/mL	Unstressed
	<b>Purity</b> 99%			+/-	151.2395	µg/mL	Stressed
9	Carbon disulfide	2,501.1	µg/mL	+/-	14.5418	µg/mL	Gravimetric
	<b>CAS #</b> 75-15-0 (Lot U22D706)			+/-	150.9040	µg/mL	Unstressed
	<b>Purity</b> 99%			+/-	151.2622	µg/mL	Stressed
10	Acrylonitrile	25,010.4	µg/mL	+/-	145.4049	µg/mL	Gravimetric
	<b>CAS #</b> 107-13-1 (Lot R15D047)			+/-	1,508.9360	µg/mL	Unstressed
	<b>Purity</b> 99%			+/-	1,512.5686	µg/mL	Stressed
11	Methyl-tert-butyl ether ( MTBE )	2,500.3	µg/mL	+/-	14.5367	µg/mL	Gravimetric
	<b>CAS #</b> 1634-04-4 (Lot SHBH9526)			+/-	150.8512	µg/mL	Unstressed
	<b>Purity</b> 99%			+/-	151.2093	µg/mL	Stressed
12	cis-1,2-Dichloroethene	2,501.3	µg/mL	+/-	14.5425	µg/mL	Gravimetric
	<b>CAS #</b> 156-59-2 (Lot MKBX5945V)			+/-	150.9115	µg/mL	Unstressed
	<b>Purity</b> 99%			+/-	151.2698	µg/mL	Stressed
13	n-Hexane (C6)	2,500.8	µg/mL	+/-	14.5396	µg/mL	Gravimetric
	<b>CAS #</b> 110-54-3 (Lot SHBH8106)			+/-	150.8813	µg/mL	Unstressed
	<b>Purity</b> 99%			+/-	151.2395	µg/mL	Stressed
14	1,1-Dichloroethane	2,500.4	µg/mL	+/-	14.5374	µg/mL	Gravimetric
	<b>CAS #</b> 75-34-3 (Lot 462600)			+/-	150.8587	µg/mL	Unstressed
	<b>Purity</b> 99%			+/-	151.2169	µg/mL	Stressed
15	2,2-Dichloropropane	2,500.9	µg/mL	+/-	14.5403	µg/mL	Gravimetric
	<b>CAS #</b> 594-20-7 (Lot BCBT5124)			+/-	150.8889	µg/mL	Unstressed
	<b>Purity</b> 99%			+/-	151.2471	µg/mL	Stressed
16	trans-1,2-Dichloroethene	2,500.3	µg/mL	+/-	14.5367	µg/mL	Gravimetric
	<b>CAS #</b> 156-60-5 (Lot MKBH9850V)			+/-	150.8512	µg/mL	Unstressed
	<b>Purity</b> 99%			+/-	151.2093	µg/mL	Stressed
17	Isobutanol (2-Methyl-1-propanol)	62,500.9	µg/mL	+/-	363.3665	µg/mL	Gravimetric
	<b>CAS #</b> 78-83-1 (Lot SHBK0551)			+/-	3,770.9529	µg/mL	Unstressed
	<b>Purity</b> 99%			+/-	3,779.9058	µg/mL	Stressed
18	chloroform	2,500.5	µg/mL	+/-	14.5381	µg/mL	Gravimetric
	<b>CAS #</b> 67-66-3 (Lot SHBJ9076)			+/-	150.8662	µg/mL	Unstressed
	<b>Purity</b> 99%			+/-	151.2244	µg/mL	Stressed
19	Bromochloromethane	2,500.6	µg/mL	+/-	14.5387	µg/mL	Gravimetric
	<b>CAS #</b> 74-97-5 (Lot 00008541)			+/-	150.8718	µg/mL	Unstressed
	<b>Purity</b> 98%			+/-	151.2300	µg/mL	Stressed
20	Tetrahydrofuran	5,000.6	µg/mL	+/-	29.0741	µg/mL	Gravimetric
	<b>CAS #</b> 109-99-9 (Lot SHBJ6179)			+/-	301.7099	µg/mL	Unstressed
	<b>Purity</b> 99%			+/-	302.4262	µg/mL	Stressed
21	1,1,1-trichloroethane	2,500.8	µg/mL	+/-	14.5396	µg/mL	Gravimetric
	<b>CAS #</b> 71-55-6 (Lot B15W12061)			+/-	150.8813	µg/mL	Unstressed
	<b>Purity</b> 99%			+/-	151.2395	µg/mL	Stressed
22	Cyclohexane	2,500.9	µg/mL	+/-	14.5403	µg/mL	Gravimetric
	<b>CAS #</b> 110-82-7 (Lot MKCC9660)			+/-	150.8889	µg/mL	Unstressed
	<b>Purity</b> 99%			+/-	151.2471	µg/mL	Stressed
23	1,1-Dichloropropene	2,500.6	µg/mL	+/-	14.5388	µg/mL	Gravimetric
	<b>CAS #</b> 563-58-6 (Lot 180531JLM)			+/-	150.8738	µg/mL	Unstressed
	<b>Purity</b> 99%			+/-	151.2320	µg/mL	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	1,1,1,2-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	µg/mL	Gravimetric
				+/-	150.8436	µg/mL	Unstressed
				+/-	151.2017	µg/mL	Stressed
57	1,3,5-Trimethylbenzene CAS # 108-67-8 Purity 99%	(Lot BCBS7648V)	2,500.5 µg/mL	+/-	14.5381	µg/mL	Gravimetric
				+/-	150.8662	µg/mL	Unstressed
				+/-	151.2244	µg/mL	Stressed
58	2-Chlorotoluene CAS # 95-49-8 Purity 99%	(Lot MKBW5554V)	2,500.1 µg/mL	+/-	14.5359	µg/mL	Gravimetric
				+/-	150.8436	µg/mL	Unstressed
				+/-	151.2017	µg/mL	Stressed
59	4-Chlorotoluene CAS # 106-43-4 Purity 99%	(Lot MKBL7753V)	2,500.9 µg/mL	+/-	14.5403	µg/mL	Gravimetric
				+/-	150.8889	µg/mL	Unstressed
				+/-	151.2471	µg/mL	Stressed
60	tert-Butylbenzene CAS # 98-06-6 Purity 99%	(Lot STBD6954V)	2,500.1 µg/mL	+/-	14.5359	µg/mL	Gravimetric
				+/-	150.8436	µg/mL	Unstressed
				+/-	151.2017	µg/mL	Stressed
61	1,2,4-Trimethylbenzene CAS # 95-63-6 Purity 97%	(Lot MKBH5027V)	2,499.9 µg/mL	+/-	14.5348	µg/mL	Gravimetric
				+/-	150.8320	µg/mL	Unstressed
				+/-	151.1901	µg/mL	Stressed
62	sec-Butylbenzene CAS # 135-98-8 Purity 99%	(Lot MKBR9260V)	2,501.1 µg/mL	+/-	14.5418	µg/mL	Gravimetric
				+/-	150.9040	µg/mL	Unstressed
				+/-	151.2622	µg/mL	Stressed
63	p-Isopropyltoluene (p-Cymene) CAS # 99-87-6 Purity 99%	(Lot MKBV3556V)	2,501.1 µg/mL	+/-	14.5418	µg/mL	Gravimetric
				+/-	150.9040	µg/mL	Unstressed
				+/-	151.2622	µg/mL	Stressed
64	1,3-Dichlorobenzene CAS # 541-73-1 Purity 99%	(Lot BCBQ7100V)	2,501.4 µg/mL	+/-	14.5432	µg/mL	Gravimetric
				+/-	150.9190	µg/mL	Unstressed
				+/-	151.2773	µg/mL	Stressed
65	1,4-Dichlorobenzene CAS # 106-46-7 Purity 99%	(Lot MKBS4401V)	2,501.5 µg/mL	+/-	14.5439	µg/mL	Gravimetric
				+/-	150.9266	µg/mL	Unstressed
				+/-	151.2849	µg/mL	Stressed
66	n-Butylbenzene CAS # 104-51-8 Purity 99%	(Lot 09804AE)	2,501.0 µg/mL	+/-	14.5410	µg/mL	Gravimetric
				+/-	150.8964	µg/mL	Unstressed
				+/-	151.2547	µg/mL	Stressed
67	1,2-Dichlorobenzene CAS # 95-50-1 Purity 99%	(Lot SHBG3111V)	2,502.9 µg/mL	+/-	14.5519	µg/mL	Gravimetric
				+/-	151.0095	µg/mL	Unstressed
				+/-	151.3681	µg/mL	Stressed
68	1,2-Dibromo-3-chloropropane CAS # 96-12-8 Purity 99%	(Lot FBL01)	2,502.0 µg/mL	+/-	14.5468	µg/mL	Gravimetric
				+/-	150.9567	µg/mL	Unstressed
				+/-	151.3151	µg/mL	Stressed
69	1,2,4-Trichlorobenzene CAS # 120-82-1 Purity 99%	(Lot SHBJ9215)	2,502.1 µg/mL	+/-	14.5476	µg/mL	Gravimetric
				+/-	150.9643	µg/mL	Unstressed
				+/-	151.3227	µg/mL	Stressed
70	Hexachlorobutadiene CAS # 87-68-3 Purity 99%	(Lot J31X013)	2,501.5 µg/mL	+/-	14.5439	µg/mL	Gravimetric
				+/-	150.9266	µg/mL	Unstressed
				+/-	151.2849	µg/mL	Stressed
71	Naphthalene CAS # 91-20-3 Purity 99%	(Lot MKBZ8680V)	2,502.8 µg/mL	+/-	14.5512	µg/mL	Gravimetric
				+/-	151.0020	µg/mL	Unstressed
				+/-	151.3605	µg/mL	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)

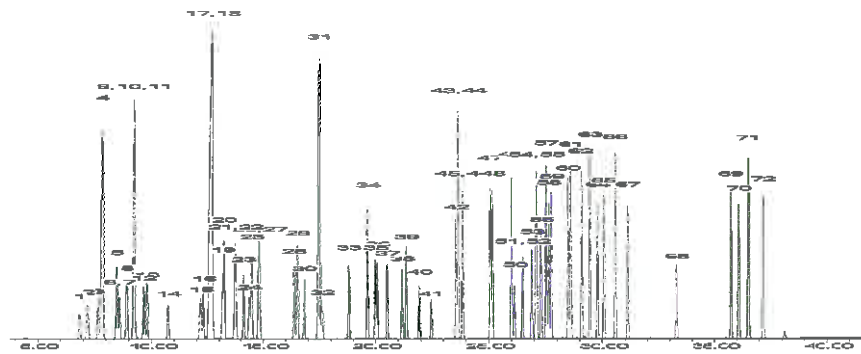
**Carrier Gas:**  
helium-constant pressure 30 psi

**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 Yallon*  
F. Joseph Yallon - 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

## 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/ $\mu$ 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](http://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](http://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

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**VOA8260SURRES\_00141**



# 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.: A0132615

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, 2022 Storage: 0°C or colder

### CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Dibromofluoromethane	2,500.2 µg/mL	+/-	14.5364	µg/mL	Gravimetric
	CAS # 1868-53-7 (Lot 0012017)		+/-	140.1837	µg/mL	Unstressed
	Purity 99.8%		+/-	143.4639	µg/mL	Stressed
2	1,2-Dichloroethane-d4	2,500.2 µg/mL	+/-	14.5361	µg/mL	Gravimetric
	CAS # 17060-07-0 (Lot PR-26748)		+/-	140.1809	µg/mL	Unstressed
	Purity 99%		+/-	143.4610	µg/mL	Stressed
3	Toluene-d8	2,500.2 µg/mL	+/-	14.5364	µg/mL	Gravimetric
	CAS # 2037-26-5 (Lot PR-26623)		+/-	140.1837	µg/mL	Unstressed
	Purity 99%		+/-	143.4639	µg/mL	Stressed
4	1-Bromo-4-fluorobenzene (BFB)	2,500.3 µg/mL	+/-	14.5370	µg/mL	Gravimetric
	CAS # 460-00-4 (Lot 20401KOV)		+/-	140.1893	µg/mL	Unstressed
	Purity 99%		+/-	143.4696	µg/mL	Stressed

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

Reagent

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**VOA8260SURRES\_00152**



# 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

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**VOABFBRES\_00085**



# 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)

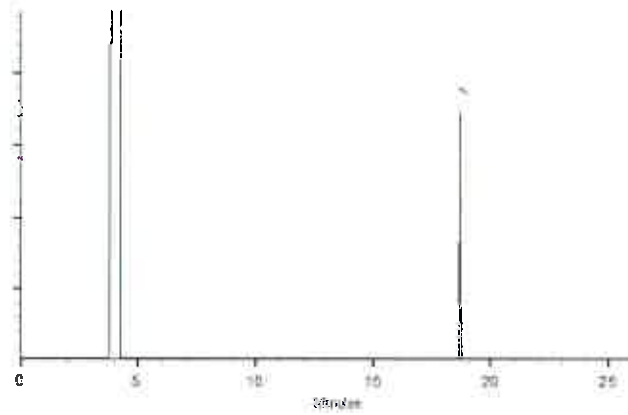
**Carrier Gas:**  
hydrogen-constant pressure 11.0 psi.

**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/ $\mu$ 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](http://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](http://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

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**VOABFBRES\_00086**



# 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)

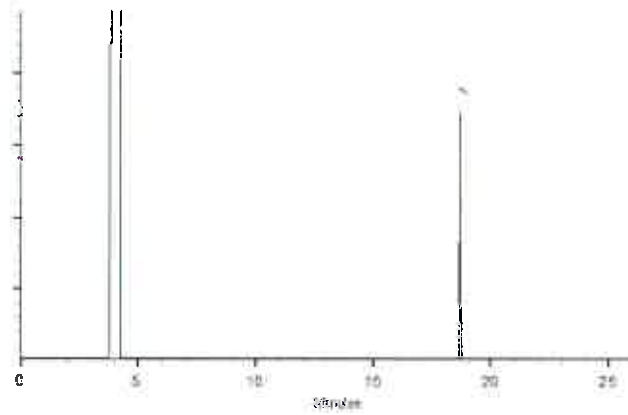
**Carrier Gas:**  
hydrogen-constant pressure 11.0 psi.

**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/ $\mu$ 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](http://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](http://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

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

FORM II  
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-101459-1

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-29-0/1-0	180-101459-1	101	113	101	79
HD-COD-SW-8-0/1-0	180-101459-2	95	107	100	77
HD-COD-SW-13-0/1-0	180-101459-3	99	110	89	76
HD-COD-SW-16-0/1-0	180-101459-4	89	96	83	66
HD-COD-SW-17-0/1-0	180-101459-5	106	115	100	81
HD-COD-SW-6-0/1-0	180-101459-6	109	131	100	78
HD-COD-SW-26-0/1-0	180-101459-7	97	109	93	80
HD-COD-SW-7-0/1-0	180-101459-8	114	123	97	81
HD-COD-SW-27-0/1-0	180-101459-9	101	119	102	79
HD-COD-SW-15-0/1-0	180-101459-10	96	104	101	86
HD-QC1-0/1-1	180-101459-11	111	117	104	83
HD-COD-SW-9-0/1-0	180-101459-12	119	124	97	76
HD-COD-SW-28-0/1-0	180-101459-13	105	121	93	80
HD-QC1-0/1-2	180-101459-14	119	130	90	76
	MB 180-304996/6	101	113	98	84
	LCS 180-304996/4	105	110	101	99
HD-COD-SW-15-0/1-0 MS	180-101459-10 MS	100	107	105	90
HD-COD-SW-15-0/1-0 MSD	180-101459-10 MSD	116	124	109	101

DBFM = Dibromofluoromethane (Surr)	<u>QC LIMITS</u>
DCA = 1,2-Dichloroethane-d4 (Surr)	75-147
TOL = Toluene-d8 (Surr)	70-150
BFB = 4-Bromofluorobenzene (Surr)	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.: 180-101459-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low Lab File ID: 6012504.D

Lab ID: LCS 180-304996/4 Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Chloromethane	10.0	14.0	140	37-150	
Vinyl chloride	10.0	13.6	136	50-150	
Bromomethane	10.0	12.4	124	35-150	
Chloroethane	10.0	13.1	131	52-150	
1,1-Dichloroethene	10.0	11.8	118	79-132	
Acetone	20.0	22.5	113	37-150	
Carbon disulfide	10.0	11.5	115	66-134	
Methylene Chloride	10.0	10.6	106	72-131	
trans-1,2-Dichloroethene	10.0	10.9	109	81-126	
Methyl tert-butyl ether	10.0	11.3	113	65-125	
1,1-Dichloroethane	10.0	11.3	113	70-127	
cis-1,2-Dichloroethene	10.0	10.6	106	79-119	
Bromochloromethane	10.0	10.6	106	74-124	
2-Butanone (MEK)	20.0	23.7	119	35-150	
Chloroform	10.0	10.7	107	75-126	
1,1,1-Trichloroethane	10.0	9.96	100	63-142	
Carbon tetrachloride	10.0	11.7	117	55-150	
Benzene	10.0	10.9	109	72-127	
1,2-Dichloroethane	10.0	11.5	115	60-138	
Trichloroethene	10.0	10.6	106	81-121	
1,2-Dichloropropane	10.0	11.1	111	67-124	
Bromodichloromethane	10.0	10.7	107	67-131	
cis-1,3-Dichloropropene	10.0	10.5	105	69-122	
4-Methyl-2-pentanone (MIBK)	20.0	21.6	108	19-150	
Toluene	10.0	10.5	105	73-123	
trans-1,3-Dichloropropene	10.0	10.5	105	61-122	
1,1,2-Trichloroethane	10.0	10.7	107	72-120	
Tetrachloroethene	10.0	10.3	103	69-134	
2-Hexanone	20.0	22.2	111	24-150	
Dibromochloromethane	10.0	10.3	103	59-134	
1,2-Dibromoethane (EDB)	10.0	10.9	109	65-129	
Chlorobenzene	10.0	10.4	104	76-119	
1,1,1,2-Tetrachloroethane	10.0	10.7	107	65-132	
Ethylbenzene	10.0	10.7	107	76-118	
Xylenes, Total	20.0	21.4	107	76-116	
Styrene	10.0	10.6	106	74-118	
Bromoform	10.0	11.4	114	50-146	
1,1,2,2-Tetrachloroethane	10.0	12.0	120	57-135	
Acrylonitrile	100	122	122	43-149	

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-101459-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water Level: Low Lab File ID: 6012521.D  
 Lab ID: 180-101459-10 MS Client ID: HD-COD-SW-15-0/1-0 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Chloromethane	10.0	ND	13.4	134	37-150	
Vinyl chloride	10.0	ND	12.7	127	50-150	
Bromomethane	10.0	ND	12.4	124	35-150	
Chloroethane	10.0	ND	12.6	126	52-150	
1,1-Dichloroethene	10.0	ND	11.1	111	79-132	
Acetone	20.0	ND	13.2	66	37-150	
Carbon disulfide	10.0	ND	12.0	120	66-134	
Methylene Chloride	10.0	ND	11.0	110	72-131	
trans-1,2-Dichloroethene	10.0	ND	11.4	114	81-126	
Methyl tert-butyl ether	10.0	ND	10.6	106	65-125	
1,1-Dichloroethane	10.0	ND	12.4	124	70-127	
cis-1,2-Dichloroethene	10.0	0.87 J	11.3	105	79-119	
Bromochloromethane	10.0	ND	9.88	99	74-124	
2-Butanone (MEK)	20.0	ND	16.9	85	35-150	
Chloroform	10.0	ND	10.0	100	75-126	
1,1,1-Trichloroethane	10.0	ND	10.0	100	63-142	
Carbon tetrachloride	10.0	ND	10.7	107	55-150	
Benzene	10.0	ND	10.9	109	72-127	
1,2-Dichloroethane	10.0	ND	11.0	110	60-138	
Trichloroethene	10.0	0.86 J	11.7	108	81-121	
1,2-Dichloropropane	10.0	ND	12.2	122	67-124	
Bromodichloromethane	10.0	ND	10.0	100	67-131	
cis-1,3-Dichloropropene	10.0	ND	9.14	91	69-122	
4-Methyl-2-pentanone (MIBK)	20.0	ND	20.5	102	19-150	
Toluene	10.0	ND	11.0	110	73-123	
trans-1,3-Dichloropropene	10.0	ND	9.82	98	61-122	
1,1,2-Trichloroethane	10.0	ND	10.7	107	72-120	
Tetrachloroethene	10.0	2.4	12.5	101	69-134	
2-Hexanone	20.0	ND	18.1	90	24-150	
Dibromochloromethane	10.0	ND	9.87	99	59-134	
1,2-Dibromoethane (EDB)	10.0	ND	10.5	105	65-129	
Chlorobenzene	10.0	ND	10.2	102	76-119	
1,1,1,2-Tetrachloroethane	10.0	ND	10.4	104	65-132	
Ethylbenzene	10.0	ND	10.3	103	76-118	
Xylenes, Total	20.0	ND	20.9	104	76-116	
Styrene	10.0	ND	9.94	99	74-118	
Bromoform	10.0	ND	9.47	95	50-146	
1,1,2,2-Tetrachloroethane	10.0	ND	11.0	110	57-135	
Acrylonitrile	100	ND	123	123	43-149	

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-101459-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low Lab File ID: 6012522.D

Lab ID: 180-101459-10 MSD Client ID: HD-COD-SW-15-0/1-0 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Chloromethane	10.0	14.6	146	8	35	37-150	
Vinyl chloride	10.0	14.8	148	15	31	50-150	
Bromomethane	10.0	12.5	125	1	35	35-150	
Chloroethane	10.0	14.1	141	11	31	52-150	
1,1-Dichloroethene	10.0	13.4	134	19	29	79-132	F1
Acetone	20.0	14.5	73	9	35	37-150	
Carbon disulfide	10.0	13.9	139	15	31	66-134	F1
Methylene Chloride	10.0	12.0	120	9	29	72-131	
trans-1,2-Dichloroethene	10.0	13.1	131	14	27	81-126	F1
Methyl tert-butyl ether	10.0	13.0	130	20	28	65-125	F1
1,1-Dichloroethane	10.0	13.5	135	9	27	70-127	F1
cis-1,2-Dichloroethene	10.0	13.0	121	14	28	79-119	F1
Bromochloromethane	10.0	12.1	121	20	27	74-124	
2-Butanone (MEK)	20.0	19.5	97	14	34	35-150	
Chloroform	10.0	13.2	132	27	26	75-126	F1 F2
1,1,1-Trichloroethane	10.0	13.2	132	27	28	63-142	
Carbon tetrachloride	10.0	13.0	130	20	29	55-150	
Benzene	10.0	14.4	144	27	27	72-127	F1
1,2-Dichloroethane	10.0	13.0	130	16	26	60-138	
Trichloroethene	10.0	12.4	116	6	28	81-121	
1,2-Dichloropropane	10.0	12.6	126	3	27	67-124	F1
Bromodichloromethane	10.0	11.4	114	13	28	67-131	
cis-1,3-Dichloropropene	10.0	10.8	108	17	29	69-122	
4-Methyl-2-pentanone (MIBK)	20.0	22.5	113	10	33	19-150	
Toluene	10.0	12.4	124	13	31	73-123	F1
trans-1,3-Dichloropropene	10.0	11.3	113	14	30	61-122	
1,1,2-Trichloroethane	10.0	12.1	121	11	27	72-120	F1
Tetrachloroethene	10.0	14.2	118	13	27	69-134	
2-Hexanone	20.0	18.2	91	0	32	24-150	
Dibromochloromethane	10.0	11.4	114	14	28	59-134	
1,2-Dibromoethane (EDB)	10.0	11.9	119	12	27	65-129	
Chlorobenzene	10.0	12.0	120	16	25	76-119	F1
1,1,1,2-Tetrachloroethane	10.0	11.8	118	13	28	65-132	
Ethylbenzene	10.0	12.0	120	15	27	76-118	F1
Xylenes, Total	20.0	24.0	120	14	27	76-116	F1
Styrene	10.0	12.0	120	19	27	74-118	F1
Bromoform	10.0	11.7	117	21	30	50-146	
1,1,2,2-Tetrachloroethane	10.0	13.5	135	20	29	57-135	
Acrylonitrile	100	140	140	13	34	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.: 180-101459-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: 6012506.D Lab Sample ID: MB 180-304996/6  
 Matrix: Water Heated Purge: (Y/N) N  
 Instrument ID: CHHP6 Date Analyzed: 01/25/2020 12:53  
 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 180-304996/4	6012504.D	01/25/2020 11:58
HD-COD-SW-15-0/1-0	180-101459-10	6012507.D	01/25/2020 13:27
HD-COD-SW-29-0/1-0	180-101459-1	6012508.D	01/25/2020 13:54
HD-COD-SW-8-0/1-0	180-101459-2	6012509.D	01/25/2020 14:21
HD-COD-SW-13-0/1-0	180-101459-3	6012510.D	01/25/2020 14:49
HD-COD-SW-16-0/1-0	180-101459-4	6012511.D	01/25/2020 15:16
HD-COD-SW-17-0/1-0	180-101459-5	6012512.D	01/25/2020 15:43
HD-COD-SW-6-0/1-0	180-101459-6	6012513.D	01/25/2020 16:10
HD-COD-SW-26-0/1-0	180-101459-7	6012514.D	01/25/2020 16:38
HD-COD-SW-7-0/1-0	180-101459-8	6012515.D	01/25/2020 17:05
HD-COD-SW-27-0/1-0	180-101459-9	6012516.D	01/25/2020 17:32
HD-QC1-0/1-1	180-101459-11	6012517.D	01/25/2020 17:59
HD-COD-SW-9-0/1-0	180-101459-12	6012518.D	01/25/2020 18:26
HD-COD-SW-28-0/1-0	180-101459-13	6012519.D	01/25/2020 18:54
HD-QC1-0/1-2	180-101459-14	6012520.D	01/25/2020 19:21
HD-COD-SW-15-0/1-0 MS	180-101459-10 MS	6012521.D	01/25/2020 19:48
HD-COD-SW-15-0/1-0 MSD	180-101459-10 MSD	6012522.D	01/25/2020 20:15

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

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-101459-1

SDG No.: \_\_\_\_\_

Lab File ID: 6123101A.D BFB Injection Date: 12/31/2019

Instrument ID: CHHP6 BFB Injection Time: 11:25

Analysis Batch No.: 302982

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.8	
75	30.0 - 60.0 % of mass 95	44.8	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.3	
173	Less than 2.0 % of mass 174	0.1	(0.1) 1
174	50.0 - 120.00 % of mass 95	101.7	
175	5.0 - 9.0 % of mass 174	6.6	(6.5) 1
176	95.0 - 101.0 % of mass 174	98.0	(96.3) 1
177	5.0 - 9.0 % of mass 176	8.1	(8.3) 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 180-302982/4	6123104.D	12/31/2019	12:53
	IC 180-302982/5	6123105.D	12/31/2019	13:20
	ICIS 180-302982/6	6123106.D	12/31/2019	13:47
	IC 180-302982/7	6123107.D	12/31/2019	14:14
	IC 180-302982/8	6123108.D	12/31/2019	14:41
	IC 180-302982/9	6123109.D	12/31/2019	15:08
	IC 180-302982/10	6123110.D	12/31/2019	15:36
	IC 180-302982/11	6123111.D	12/31/2019	16:03

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

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-101459-1

SDG No.: \_\_\_\_\_

Lab File ID: 6012501.D BFB Injection Date: 01/25/2020

Instrument ID: CHHP6 BFB Injection Time: 09:41

Analysis Batch No.: 304996

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	19.9
75	30.0 - 60.0 % of mass 95	41.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.7
173	Less than 2.0 % of mass 174	0.4 (0.4) 1
174	50.0 - 120.00 % of mass 95	107.6
175	5.0 - 9.0 % of mass 174	7.5 (7.0) 1
176	95.0 - 101.0 % of mass 174	104.7 (97.3) 1
177	5.0 - 9.0 % of mass 176	7.3 (7.0) 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 180-304996/3	6012503A.D	01/25/2020	11:31
	LCS 180-304996/4	6012504.D	01/25/2020	11:58
	MB 180-304996/6	6012506.D	01/25/2020	12:53
HD-COD-SW-15-0/1-0	180-101459-10	6012507.D	01/25/2020	13:27
HD-COD-SW-29-0/1-0	180-101459-1	6012508.D	01/25/2020	13:54
HD-COD-SW-8-0/1-0	180-101459-2	6012509.D	01/25/2020	14:21
HD-COD-SW-13-0/1-0	180-101459-3	6012510.D	01/25/2020	14:49
HD-COD-SW-16-0/1-0	180-101459-4	6012511.D	01/25/2020	15:16
HD-COD-SW-17-0/1-0	180-101459-5	6012512.D	01/25/2020	15:43
HD-COD-SW-6-0/1-0	180-101459-6	6012513.D	01/25/2020	16:10
HD-COD-SW-26-0/1-0	180-101459-7	6012514.D	01/25/2020	16:38
HD-COD-SW-7-0/1-0	180-101459-8	6012515.D	01/25/2020	17:05
HD-COD-SW-27-0/1-0	180-101459-9	6012516.D	01/25/2020	17:32
HD-QC1-0/1-1	180-101459-11	6012517.D	01/25/2020	17:59
HD-COD-SW-9-0/1-0	180-101459-12	6012518.D	01/25/2020	18:26
HD-COD-SW-28-0/1-0	180-101459-13	6012519.D	01/25/2020	18:54
HD-QC1-0/1-2	180-101459-14	6012520.D	01/25/2020	19:21
HD-COD-SW-15-0/1-0 MS	180-101459-10 MS	6012521.D	01/25/2020	19:48
HD-COD-SW-15-0/1-0 MSD	180-101459-10 MSD	6012522.D	01/25/2020	20:15

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

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-101459-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVIS 180-304996/3 Date Analyzed: 01/25/2020 11:31  
 Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18 (mm)  
 Lab File ID (Standard): 6012503A.D Heated Purge: (Y/N) N  
 Calibration ID: 42450

	TBA <sub>d</sub> 9		FB		CBN <sub>Zd</sub> 5		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	129303	4.32	546647	7.31	142691	10.41	
UPPER LIMIT	258606	4.82	1093294	7.81	285382	10.91	
LOWER LIMIT	64652	3.82	273324	6.81	71346	9.91	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 180-304996/4		144060	4.31	520893	7.31	133202	10.41
MB 180-304996/6		151585	4.30	538056	7.31	138973	10.41
180-101459-10	HD-COD-SW-15-0/1-0	155159	4.30	612227	7.31	138203	10.42
180-101459-1	HD-COD-SW-29-0/1-0	115414	4.30	488909	7.30	119569	10.42
180-101459-2	HD-COD-SW-8-0/1-0	141822	4.31	520801	7.30	135333	10.41
180-101459-3	HD-COD-SW-13-0/1-0	125026	4.32	490272	7.30	127723	10.41
180-101459-4	HD-COD-SW-16-0/1-0	131153	4.31	504799	7.31	127265	10.41
180-101459-5	HD-COD-SW-17-0/1-0	132457	4.31	478847	7.31	124990	10.42
180-101459-6	HD-COD-SW-6-0/1-0	156724	4.31	479023	7.30	131597	10.41
180-101459-7	HD-COD-SW-26-0/1-0	141561	4.31	489289	7.31	119642	10.42
180-101459-8	HD-COD-SW-7-0/1-0	136645	4.31	463490	7.31	123295	10.42
180-101459-9	HD-COD-SW-27-0/1-0	145670	4.32	493885	7.31	117622	10.41
180-101459-11	HD-QC1-0/1-1	130039	4.30	469848	7.31	114912	10.41
180-101459-12	HD-COD-SW-9-0/1-0	122866	4.31	450023	7.30	122406	10.41
180-101459-13	HD-COD-SW-28-0/1-0	135716	4.32	470031	7.30	123984	10.41
180-101459-14	HD-QC1-0/1-2	142784	4.31	440592	7.30	123853	10.41
180-101459-10 MS	HD-COD-SW-15-0/1-0 MS	153534	4.31	552389	7.30	136351	10.41
180-101459-10 MSD	HD-COD-SW-15-0/1-0 MSD	157563	4.32	523391	7.31	128722	10.41

TBA<sub>d</sub>9 = TBA-d9 (IS)

FB = Fluorobenzene (IS)

CBN<sub>Zd</sub>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.: 180-101459-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVIS 180-304996/3 Date Analyzed: 01/25/2020 11:31  
 Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18 (mm)  
 Lab File ID (Standard): 6012503A.D Heated Purge: (Y/N) N  
 Calibration ID: 42450

		DCBd4					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		239511	12.76				
UPPER LIMIT		479022	13.26				
LOWER LIMIT		119756	12.26				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 180-304996/4		229653	12.76				
MB 180-304996/6		205165	12.76				
180-101459-10	HD-COD-SW-15-0/1-0	198948	12.76				
180-101459-1	HD-COD-SW-29-0/1-0	186347	12.76				
180-101459-2	HD-COD-SW-8-0/1-0	186094	12.75				
180-101459-3	HD-COD-SW-13-0/1-0	162592	12.76				
180-101459-4	HD-COD-SW-16-0/1-0	175224	12.76				
180-101459-5	HD-COD-SW-17-0/1-0	181379	12.76				
180-101459-6	HD-COD-SW-6-0/1-0	170090	12.76				
180-101459-7	HD-COD-SW-26-0/1-0	164070	12.76				
180-101459-8	HD-COD-SW-7-0/1-0	171987	12.76				
180-101459-9	HD-COD-SW-27-0/1-0	166137	12.75				
180-101459-11	HD-QC1-0/1-1	149712	12.76				
180-101459-12	HD-COD-SW-9-0/1-0	167406	12.76				
180-101459-13	HD-COD-SW-28-0/1-0	158153	12.76				
180-101459-14	HD-QC1-0/1-2	161718	12.76				
180-101459-10 MS	HD-COD-SW-15-0/1-0 MS	225217	12.76				
180-101459-10 MSD	HD-COD-SW-15-0/1-0 MSD	237748	12.76				

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.: 180-101459-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: HD-COD-SW-29-0/1-0 Lab Sample ID: 180-101459-1  
 Matrix: Water Lab File ID: 6012508.D  
 Analysis Method: EPA 8260C Date Collected: 01/23/2020 10:05  
 Sample wt/vol: 5 (mL) Date Analyzed: 01/25/2020 13:54  
 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.: 304996 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	ND	^c	1.0	0.88
74-83-9	Bromomethane	ND	^c	1.0	0.89
75-00-3	Chloroethane	ND	^c	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.: 180-101459-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: HD-COD-SW-29-0/1-0 Lab Sample ID: 180-101459-1  
 Matrix: Water Lab File ID: 6012508.D  
 Analysis Method: EPA 8260C Date Collected: 01/23/2020 10:05  
 Sample wt/vol: 5 (mL) Date Analyzed: 01/25/2020 13:54  
 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.: 304996 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)	79		64-123
1868-53-7	Dibromofluoromethane (Surr)	101		75-147

Eurofins TestAmerica, Pittsburgh  
Target Compound Quantitation Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012508.D  
 Lims ID: 180-101459-B-1  
 Client ID: HD-COD-SW-29-0/1-0  
 Sample Type: Client  
 Inject. Date: 25-Jan-2020 13:54:30 ALS Bottle#: 2 Worklist Smp#: 8  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 180-0030512-008  
 Misc. Info.: 180-101459-b-1  
 Operator ID: 433269 Instrument ID: CHHP6  
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\MSVOA\_LL\_CHHP6.m  
 Limit Group: VOA 8260C\_D ICAL  
 Last Update: 25-Jan-2020 15:16:03 Calib Date: 31-Dec-2019 16:03:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123111.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0321

First Level Reviewer: bowieh

Date: 25-Jan-2020 15:16:03

Compound	Sig	RT (min.)	Exp RT (min.)	Diff RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.302	4.319	-0.017	90	115414	1000.0	
* 2 Fluorobenzene (IS)	96	7.302	7.306	-0.004	99	488909	50.0	
* 3 Chlorobenzene-d5	119	10.416	10.408	0.008	83	119569	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.758	12.757	0.001	94	186347	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.578	6.582	-0.004	95	110790	50.3	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.955	6.953	0.002	97	128981	56.3	
\$ 7 Toluene-d8 (Surr)	98	8.956	8.954	0.002	94	445148	50.3	
\$ 8 4-Bromofluorobenzene (Surr	95	11.597	11.595	0.002	0	125114	39.5	
12 Chloromethane	50	1.845	1.837	0.008	47	7551	2.03	M
13 Vinyl chloride	62		1.952				ND	U
15 Bromomethane	94		2.287				ND	U
16 Chloroethane	64		2.421				ND	U
22 1,1-Dichloroethene	96		3.370				ND	U
24 Acetone	43	3.457	3.473	-0.016	74	9974	8.36	M
26 Carbon disulfide	76		3.662				ND	U
31 Methylene Chloride	84		4.155				ND	
33 Acrylonitrile	53		4.556				ND	U
34 trans-1,2-Dichloroethene	96		4.574				ND	U
35 Methyl tert-butyl ether	73		4.611				ND	U
37 1,1-Dichloroethane	63		5.219				ND	
43 cis-1,2-Dichloroethene	96		5.967				ND	U
44 2-Butanone (MEK)	43	6.006	5.980	0.026	92	6934	4.62	
48 Chlorobromomethane	128		6.247				ND	
50 Chloroform	83		6.393				ND	
51 1,1,1-Trichloroethane	97		6.558				ND	U
53 Carbon tetrachloride	117		6.722				ND	U
56 Benzene	78		6.959				ND	U
57 1,2-Dichloroethane	62		7.038				ND	U
61 Trichloroethene	130	7.691	7.689	0.002	28	2070	0.6609	
64 1,2-Dichloropropane	63		7.963				ND	U
68 Dichlorobromomethane	83		8.249				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
71 cis-1,3-Dichloropropene	75		8.699				ND	U
72 4-Methyl-2-pentanone (MIBK)	43		8.857				ND	U
73 Toluene	91	9.029	9.021	0.008	45	4526	0.4017	
74 trans-1,3-Dichloropropene	75		9.277				ND	U
76 1,1,2-Trichloroethane	97		9.472				ND	U
77 Tetrachloroethene	164	9.534	9.538	-0.004	1	780	0.2802	
79 2-Hexanone	43		9.691				ND	U
81 Chlorodibromomethane	129		9.843				ND	U
82 Ethylene Dibromide	107		9.952				ND	U
84 Chlorobenzene	112		10.439				ND	U
86 1,1,1,2-Tetrachloroethane	131		10.530				ND	U
87 Ethylbenzene	106		10.542				ND	U
88 m-Xylene & p-Xylene	106		10.670				ND	U
89 o-Xylene	106	11.067	11.053	0.014	1	1249	0.2548	
90 Styrene	104		11.078				ND	U
91 Bromoform	173		11.254				ND	
96 1,1,2,2-Tetrachloroethane	83		11.741				ND	U
S 131 Xylenes, Total	106				0		0.2548	

### QC Flag Legend

Review Flags

M - Manually Integrated

U - Marked Undetected

### Reagents:

VOA8260INT\_00103

Amount Added: 2.00

Units: uL

Run Reagent

VOA8260SURR\_00103

Amount Added: 2.00

Units: uL

Run Reagent

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012508.D

Injection Date: 25-Jan-2020 13:54:30

Instrument ID: CHHP6

Operator ID: 433269

Lims ID: 180-101459-B-1

Lab Sample ID: 180-101459-1

Worklist Smp#: 8

Client ID: HD-COD-SW-29-0/1-0

Purge Vol: 5.000 mL

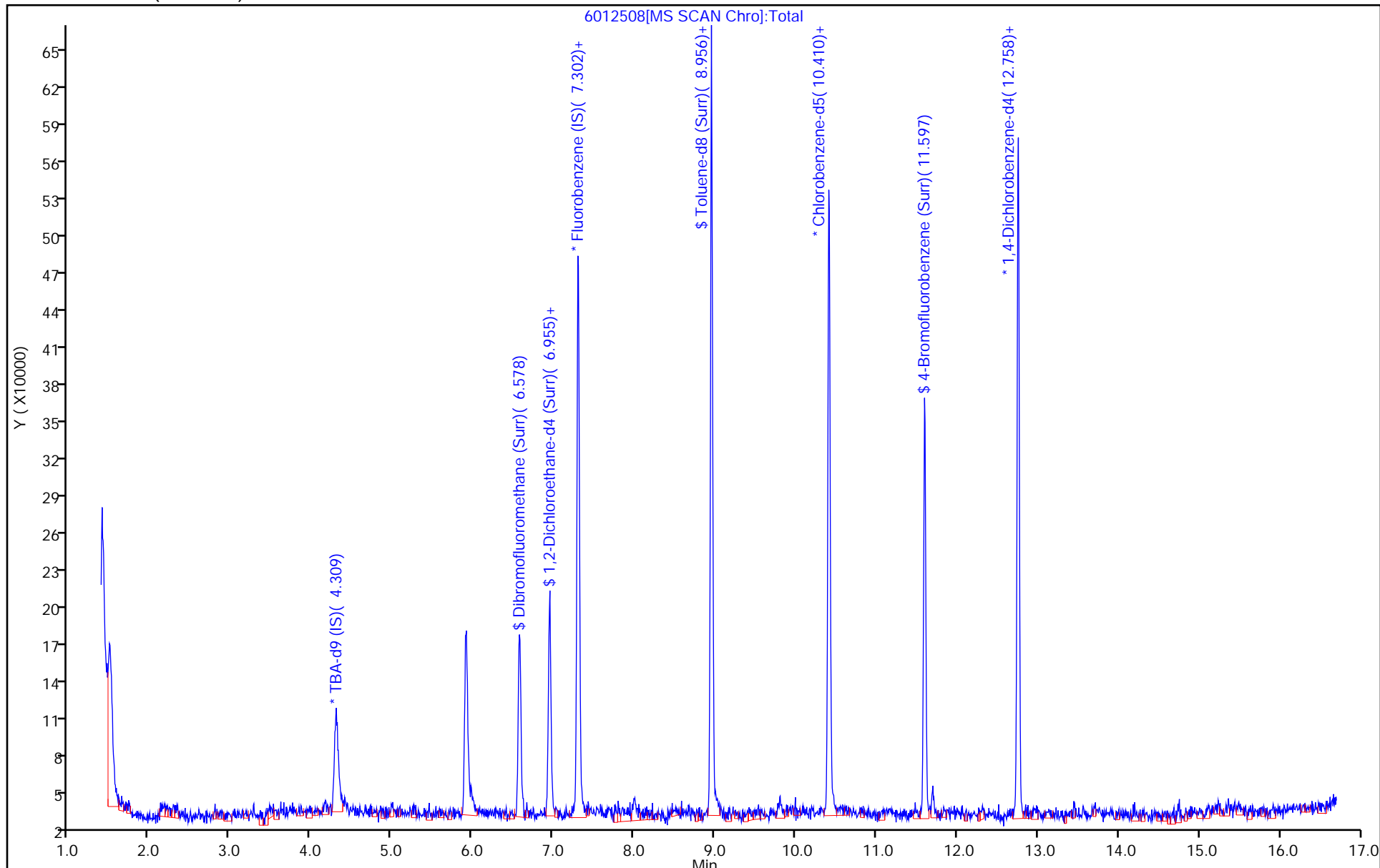
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: MSVOA\_LL\_CHHP6

Limit Group: VOA 8260C\_D ICAL

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Pittsburgh  
Recovery Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012508.D  
 Lims ID: 180-101459-B-1  
 Client ID: HD-COD-SW-29-0/1-0  
 Sample Type: Client  
 Inject. Date: 25-Jan-2020 13:54:30 ALS Bottle#: 2 Worklist Smp#: 8  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 180-0030512-008  
 Misc. Info.: 180-101459-b-1  
 Operator ID: 433269 Instrument ID: CHHP6  
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\MSVOA\_LL\_CHHP6.m  
 Limit Group: VOA 8260C\_D ICAL  
 Last Update: 25-Jan-2020 15:16:03 Calib Date: 31-Dec-2019 16:03:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123111.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0321

First Level Reviewer: bowieh Date: 25-Jan-2020 15:16:03

Compound	Amount Added	Amount Recovered	% Rec.
\$ 5 Dibromofluoromethane (Surr)	50.0	50.3	100.58
\$ 6 1,2-Dichloroethane-d4 (Surr)	50.0	56.3	112.52
\$ 7 Toluene-d8 (Surr)	50.0	50.3	100.51
\$ 8 4-Bromofluorobenzene (Surr)	50.0	39.5	79.10

Eurofins TestAmerica, Pittsburgh

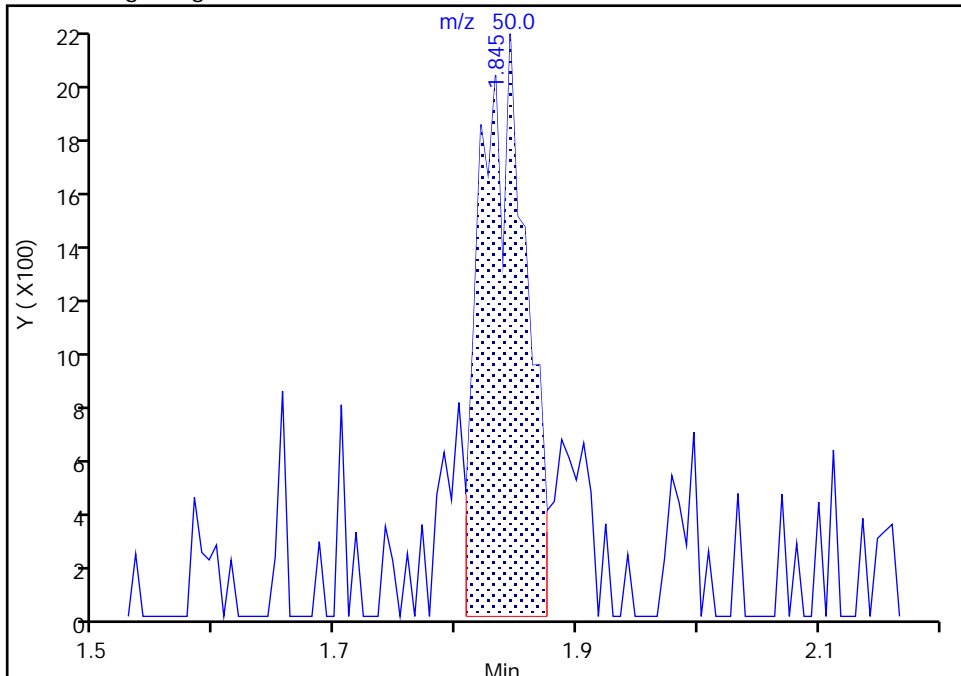
Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012508.D  
Injection Date: 25-Jan-2020 13:54:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-1 Lab Sample ID: 180-101459-1  
Client ID: HD-COD-SW-29-0/1-0  
Operator ID: 433269 ALS Bottle#: 2 Worklist Smp#: 8  
Purge Vol: 5.000 mL Dil. 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

Signal: 1

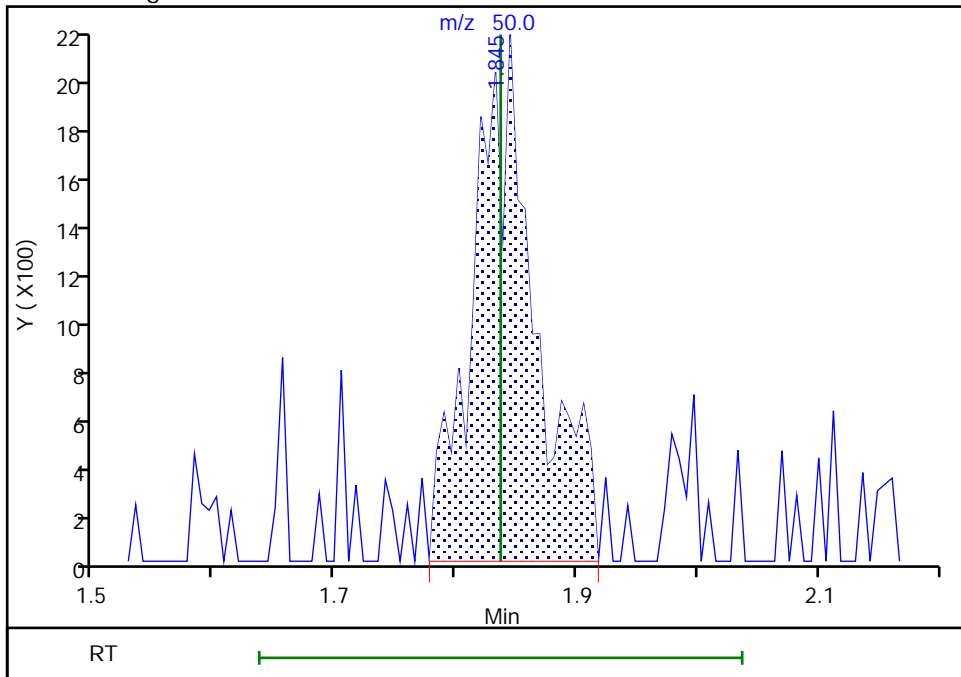
RT: 1.84  
Area: 5564  
Amount: 1.493357  
Amount Units: ng

Processing Integration Results



RT: 1.84  
Area: 7551  
Amount: 2.026661  
Amount Units: ng

Manual Integration Results



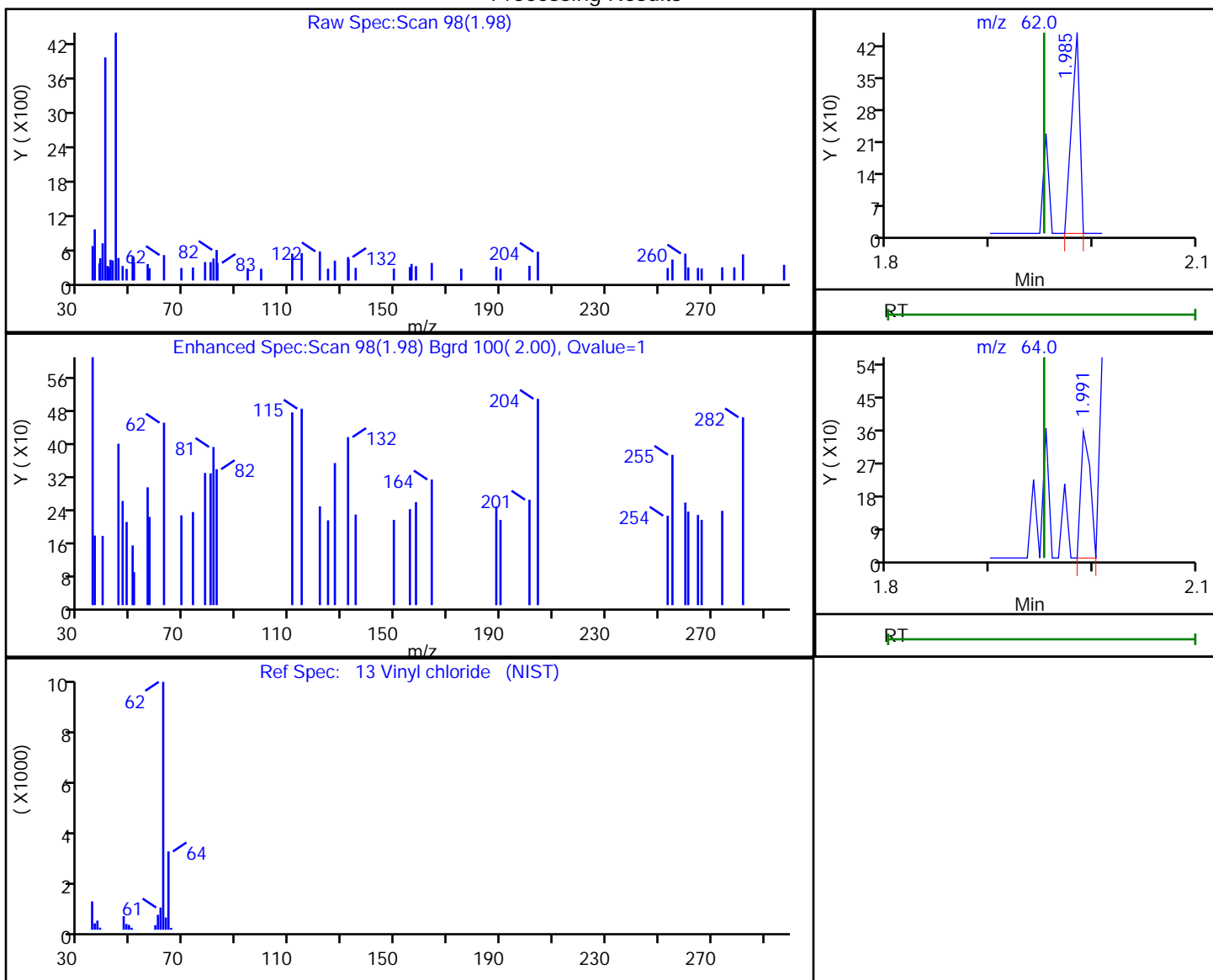
Reviewer: bowieh, 25-Jan-2020 15:14:42  
Audit Action: Manually Integrated

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012508.D  
 Injection Date: 25-Jan-2020 13:54:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-1 Lab Sample ID: 180-101459-1  
 Client ID: HD-COD-SW-29-0/1-0  
 Operator ID: 433269 ALS Bottle#: 2 Worklist Smp#: 8  
 Purge Vol: 5.000 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
1.98	62.00	243	0.075790
1.99	64.00	220	

Reviewer: bowieh, 25-Jan-2020 15:14:50

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

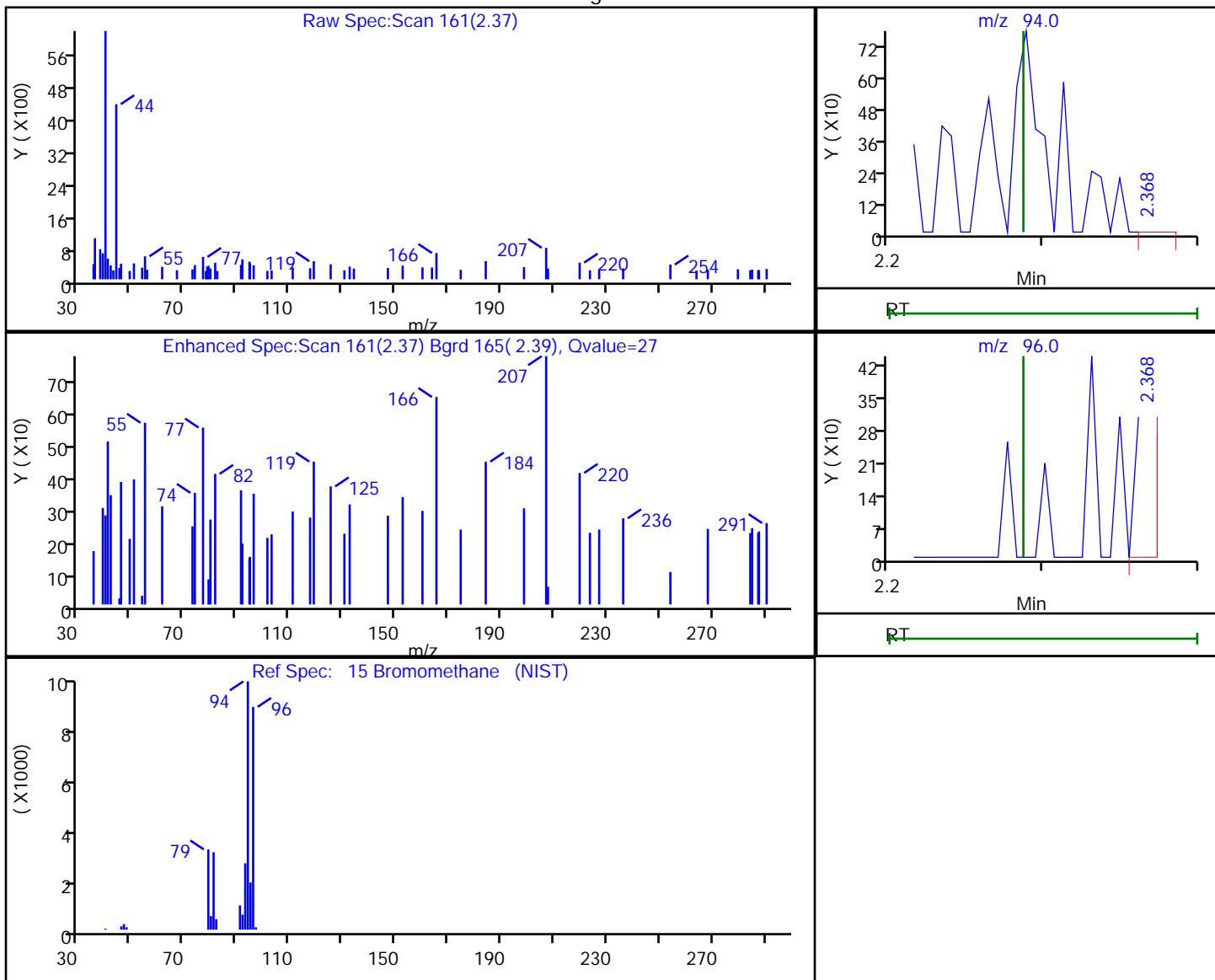


Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012508.D  
Injection Date: 25-Jan-2020 13:54:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-1 Lab Sample ID: 180-101459-1  
Client ID: HD-COD-SW-29-0/1-0  
Operator ID: 433269 ALS Bottle#: 2 Worklist Smp#: 8  
Purge Vol: 5.000 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
2.37	94.00	443	0.216566
2.37	96.00	236	

Reviewer: bowieh, 25-Jan-2020 15:14:51

Audit Action: Marked Compound Undetected

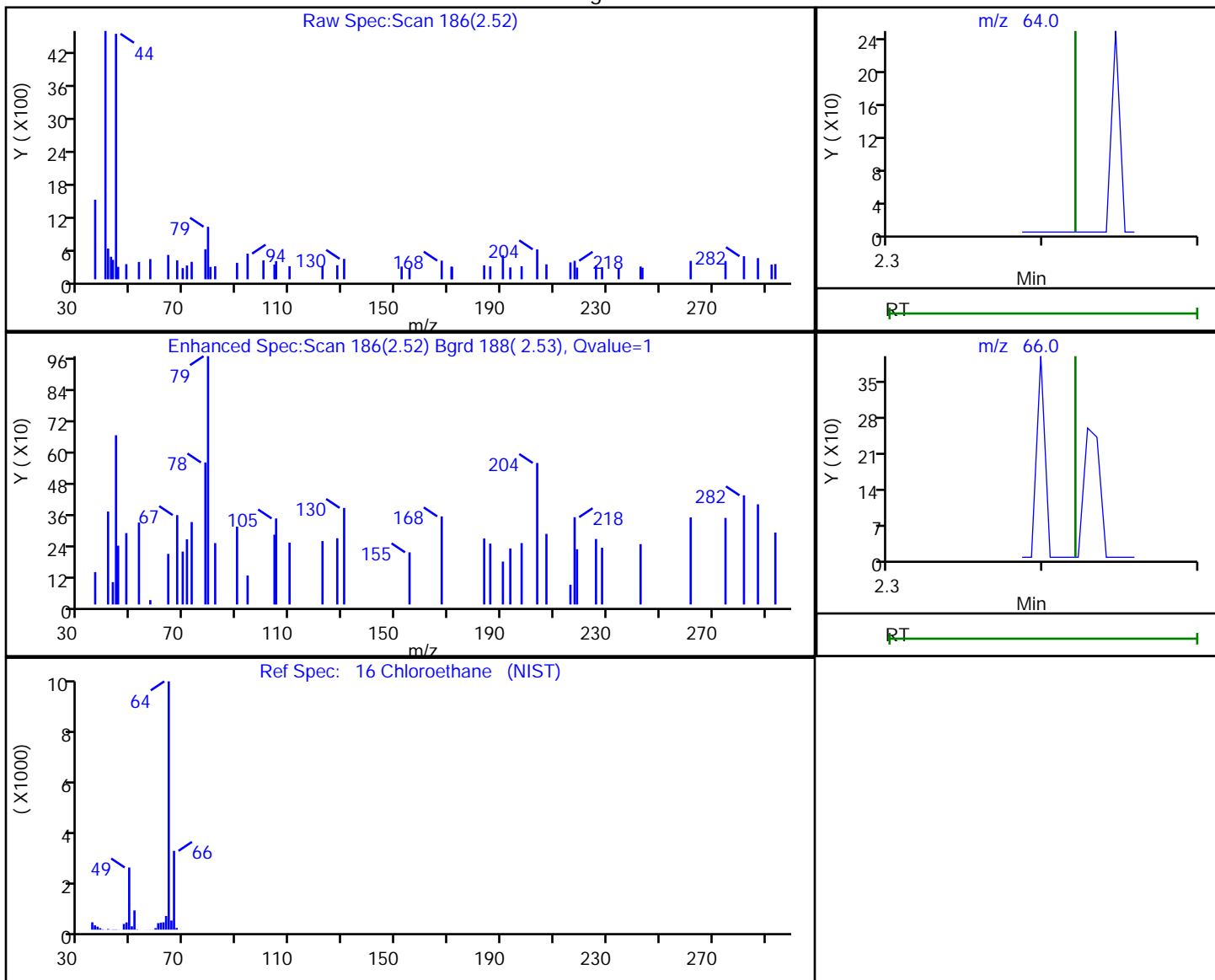
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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Lims ID: 180-101459-B-1 Lab Sample ID: 180-101459-1  
Client ID: HD-COD-SW-29-0/1-0  
Operator ID: 433269 ALS Bottle#: 2 Worklist Smp#: 8  
Purge Vol: 5.000 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	164	0.070234
2.51	66.00	95	

Reviewer: bowieh, 25-Jan-2020 15:14:52

Audit Action: Marked Compound Undetected

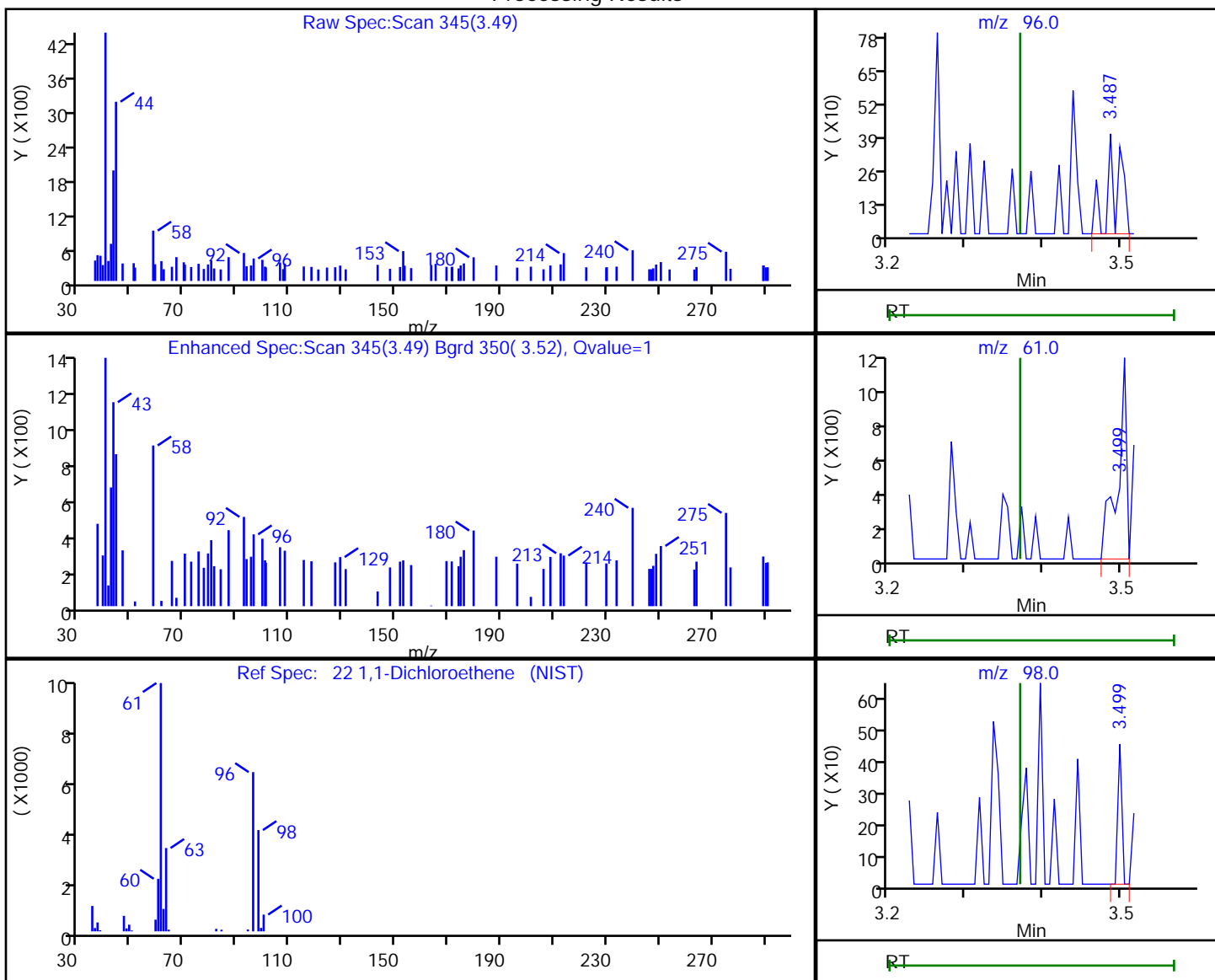
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012508.D  
 Injection Date: 25-Jan-2020 13:54:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-1 Lab Sample ID: 180-101459-1  
 Client ID: HD-COD-SW-29-0/1-0  
 Operator ID: 433269 ALS Bottle#: 2 Worklist Smp#: 8  
 Purge Vol: 5.000 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
3.49	96.00	431	0.184094
3.50	61.00	896	
3.50	98.00	165	

Reviewer: bowieh, 25-Jan-2020 15:14:53

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

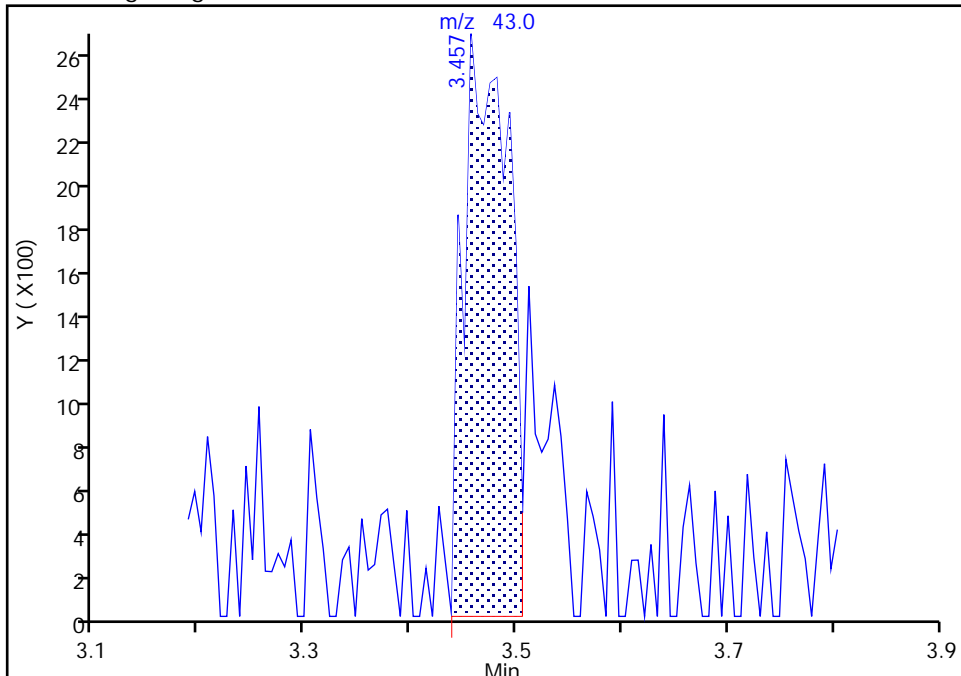
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Client ID: HD-COD-SW-29-0/1-0  
Operator ID: 433269 ALS Bottle#: 2 Worklist Smp#: 8  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
Column: DB-624 (0.18 mm) Detector: MS SCAN

24 Acetone, CAS: 67-64-1

Signal: 1

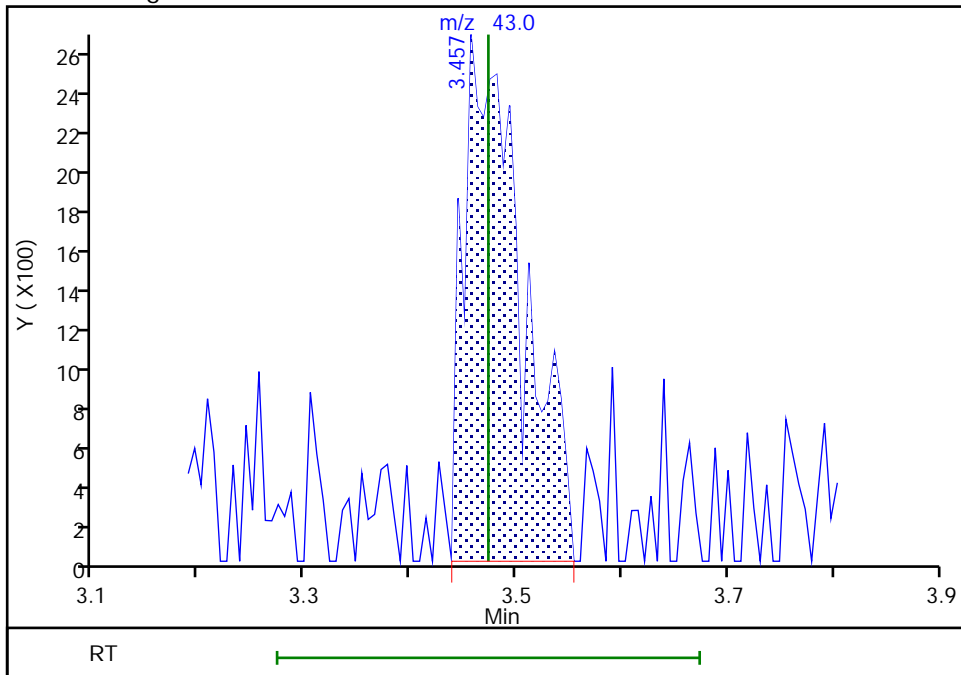
RT: 3.46  
Area: 7736  
Amount: 6.482977  
Amount Units: ng

Processing Integration Results



RT: 3.46  
Area: 9974  
Amount: 8.358481  
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 25-Jan-2020 15:15:02  
Audit Action: Manually Integrated

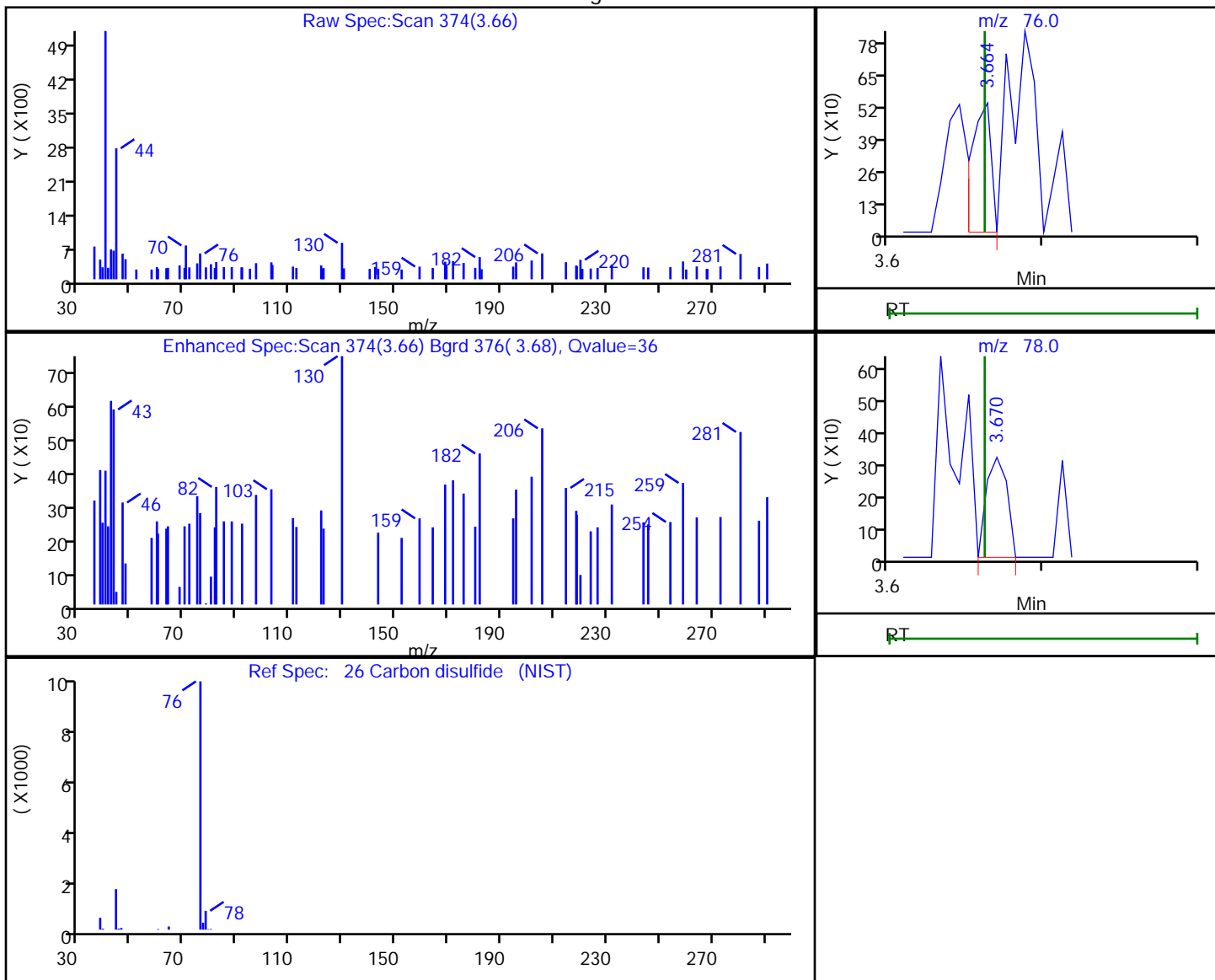
Audit Reason: Poor chromatography

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012508.D  
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 Lims ID: 180-101459-B-1 Lab Sample ID: 180-101459-1  
 Client ID: HD-COD-SW-29-0/1-0  
 Operator ID: 433269 ALS Bottle#: 2 Worklist Smp#: 8  
 Purge Vol: 5.000 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
3.66	76.00	469	0.089048
3.67	78.00	293	

Reviewer: bowieh, 25-Jan-2020 15:15:04

Audit Action: Marked Compound Undetected

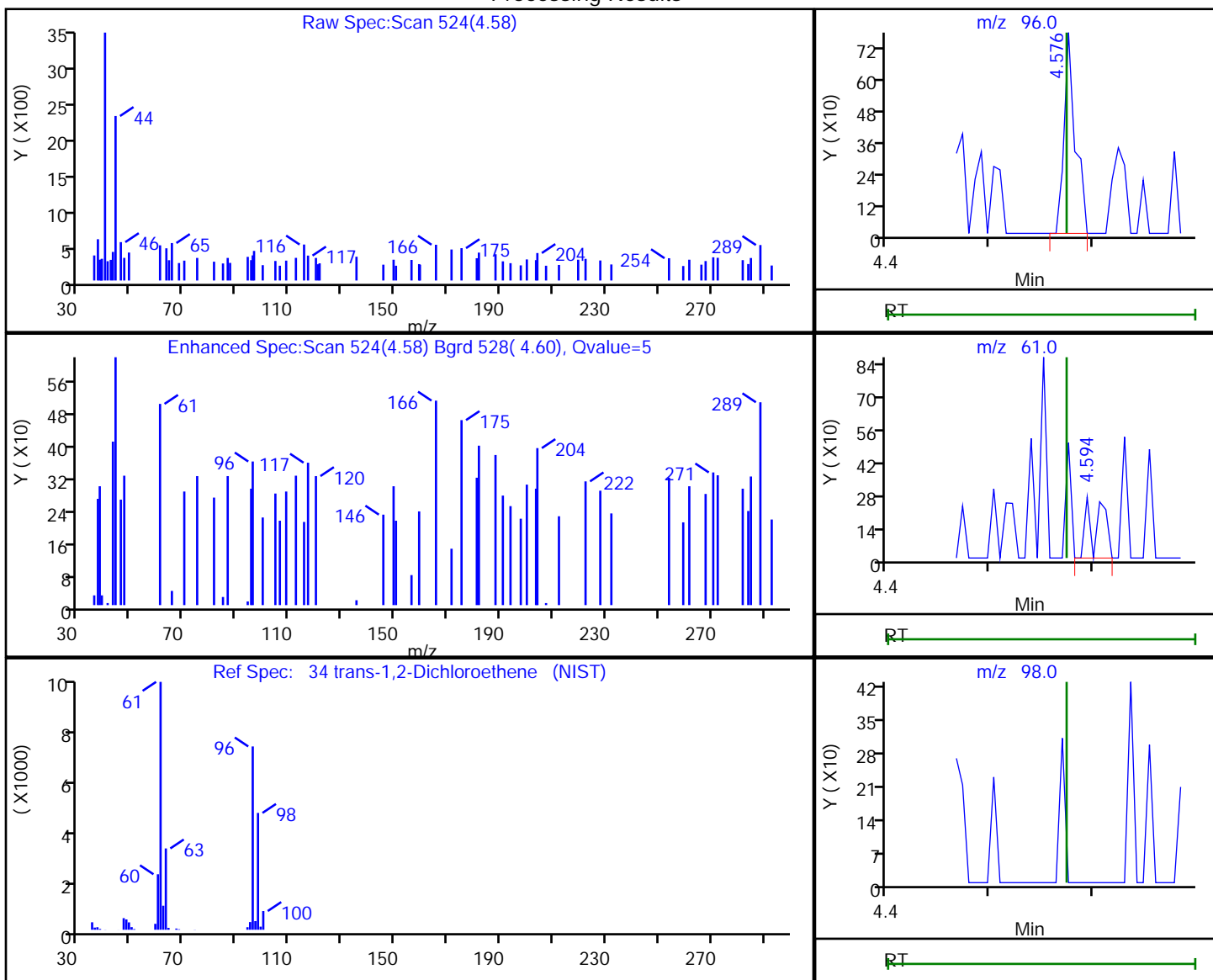
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Lims ID: 180-101459-B-1 Lab Sample ID: 180-101459-1  
 Client ID: HD-COD-SW-29-0/1-0  
 Operator ID: 433269 ALS Bottle#: 2 Worklist Smp#: 8  
 Purge Vol: 5.000 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
4.58	96.00	588	0.220934
4.59	61.00	260	
4.57	98.00	0	

Reviewer: bowieh, 25-Jan-2020 15:15:09

Audit Action: Marked Compound Undetected

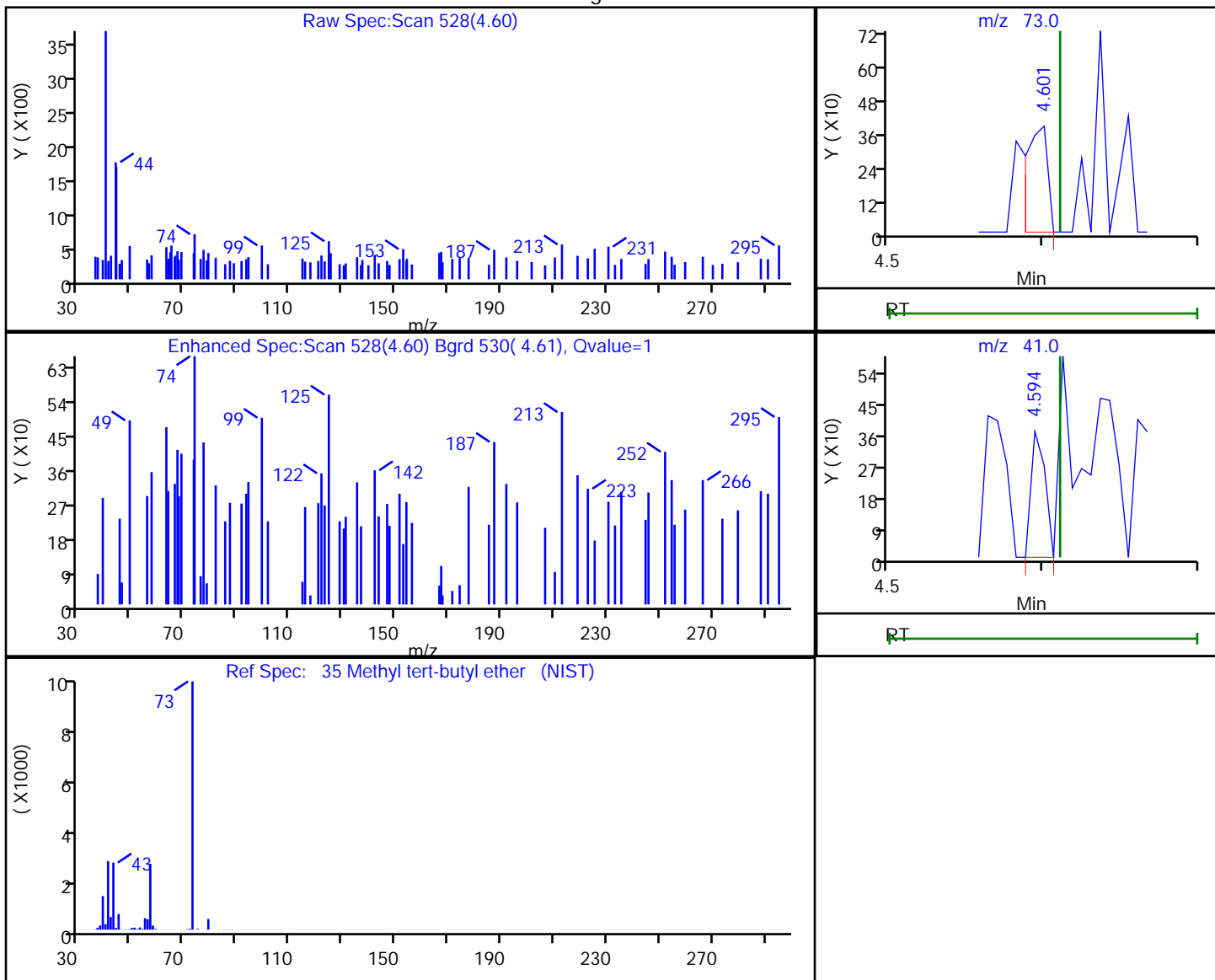
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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Injection Date: 25-Jan-2020 13:54:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-1 Lab Sample ID: 180-101459-1  
Client ID: HD-COD-SW-29-0/1-0  
Operator ID: 433269 ALS Bottle#: 2 Worklist Smp#: 8  
Purge Vol: 5.000 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
4.60	73.00	368	0.071376
4.59	41.00	231	

Reviewer: bowieh, 25-Jan-2020 15:15:10

Audit Action: Marked Compound Undetected

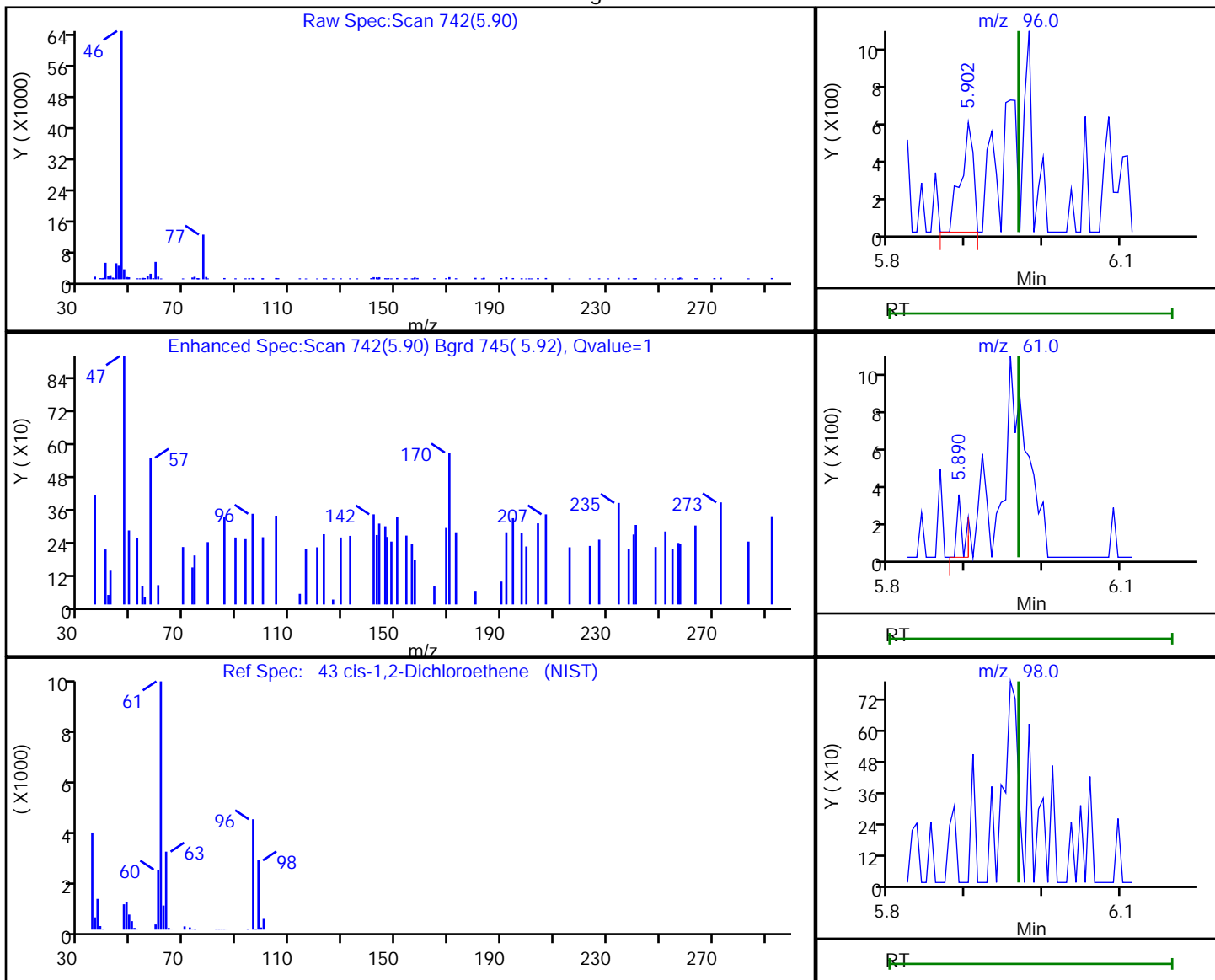
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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Injection Date: 25-Jan-2020 13:54:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-1 Lab Sample ID: 180-101459-1  
Client ID: HD-COD-SW-29-0/1-0  
Operator ID: 433269 ALS Bottle#: 2 Worklist Smp#: 8  
Purge Vol: 5.000 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
5.90	96.00	624	0.217755
5.89	61.00	194	
5.97	98.00	0	

Reviewer: bowieh, 25-Jan-2020 15:15:11

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

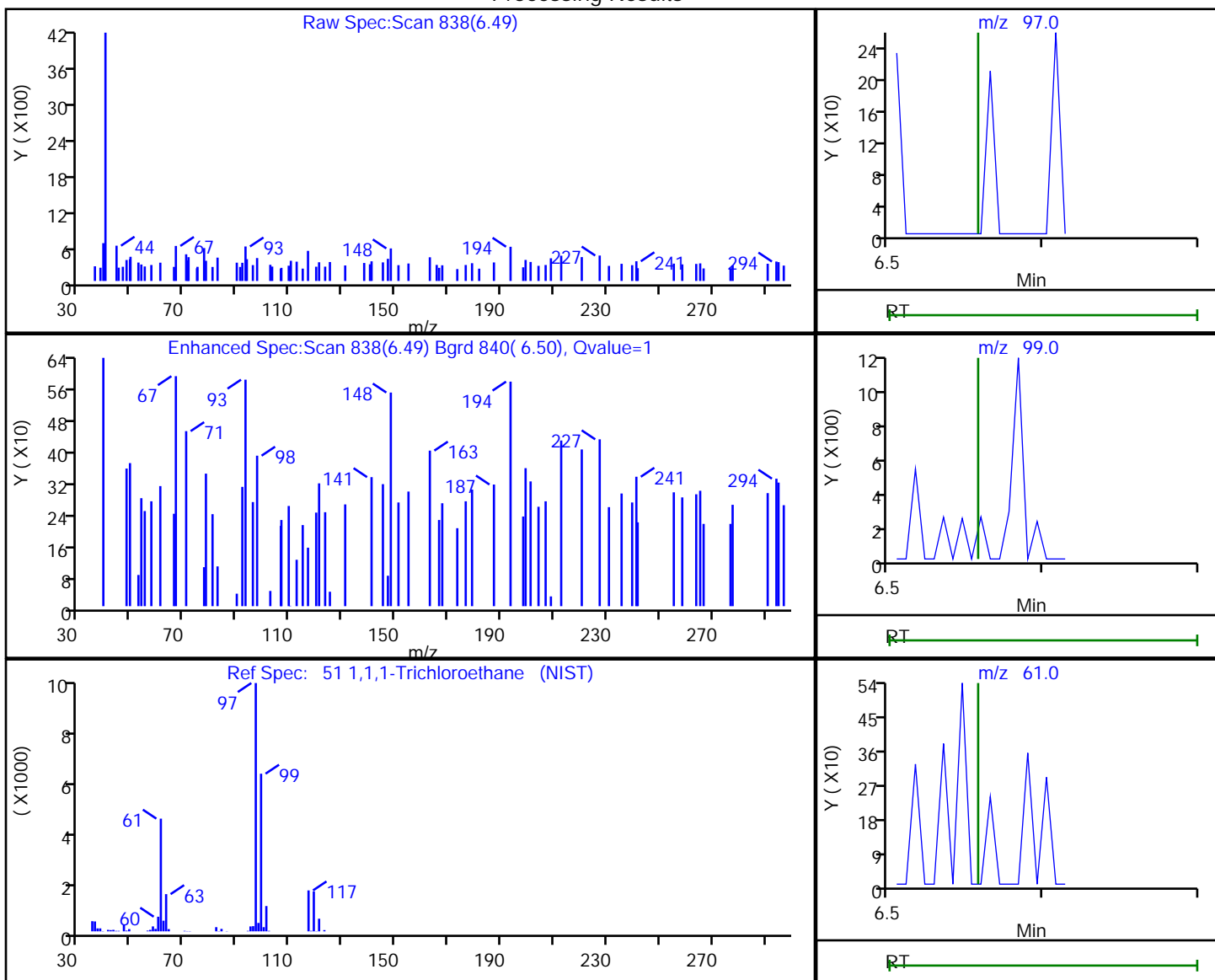


Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012508.D  
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 Lims ID: 180-101459-B-1 Lab Sample ID: 180-101459-1  
 Client ID: HD-COD-SW-29-0/1-0  
 Operator ID: 433269 ALS Bottle#: 2 Worklist Smp#: 8  
 Purge Vol: 5.000 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	216	0.065482
6.49	99.00	185	
6.49	61.00	308	

Reviewer: bowieh, 25-Jan-2020 15:15:25

Audit Action: Marked Compound Undetected

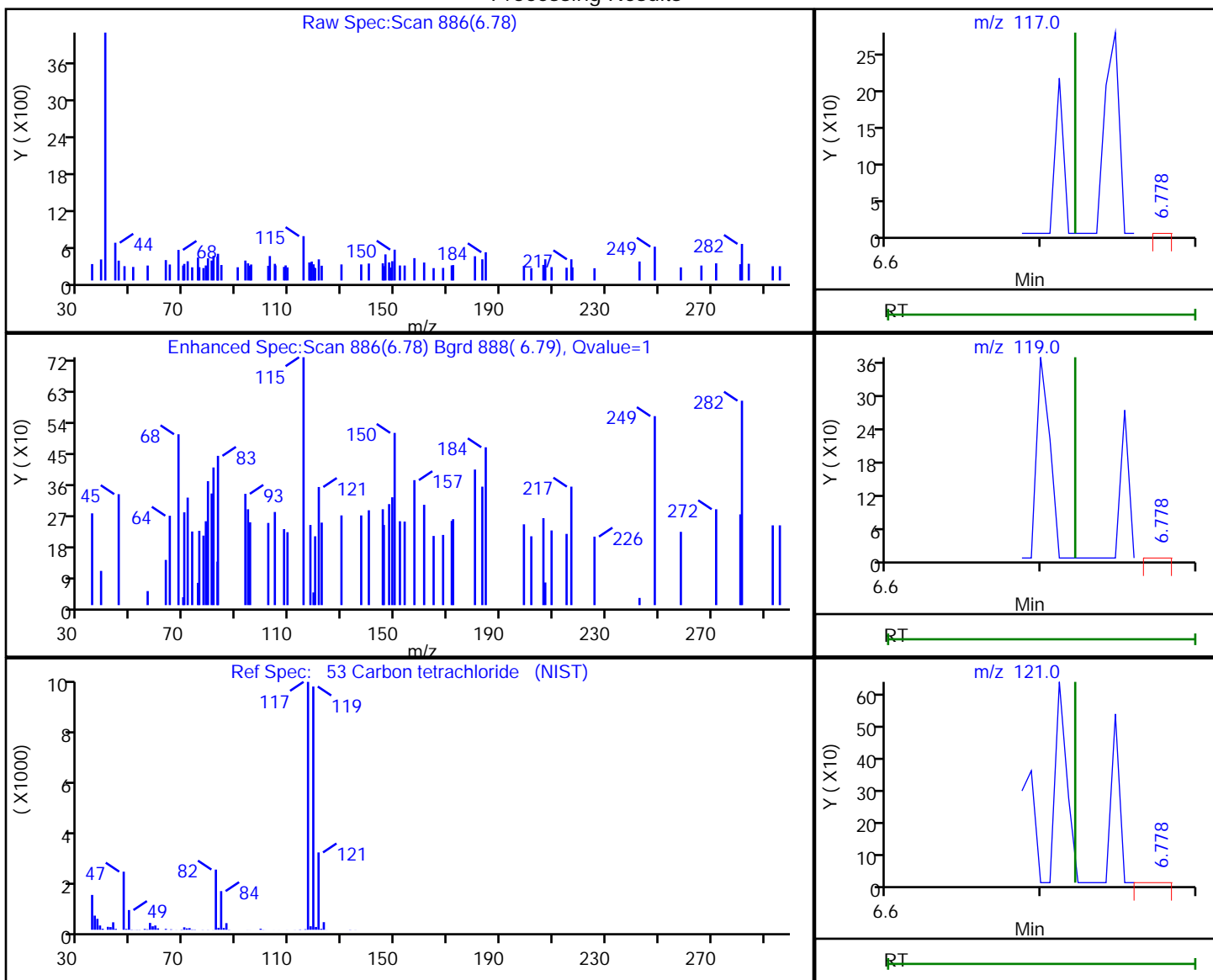
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Injection Date: 25-Jan-2020 13:54:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-1 Lab Sample ID: 180-101459-1  
 Client ID: HD-COD-SW-29-0/1-0  
 Operator ID: 433269 ALS Bottle#: 2 Worklist Smp#: 8  
 Purge Vol: 5.000 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
6.78	117.00	107	0.038570
6.78	119.00	256	
6.78	121.00	213	

Reviewer: bowieh, 25-Jan-2020 15:15:27

Audit Action: Marked Compound Undetected

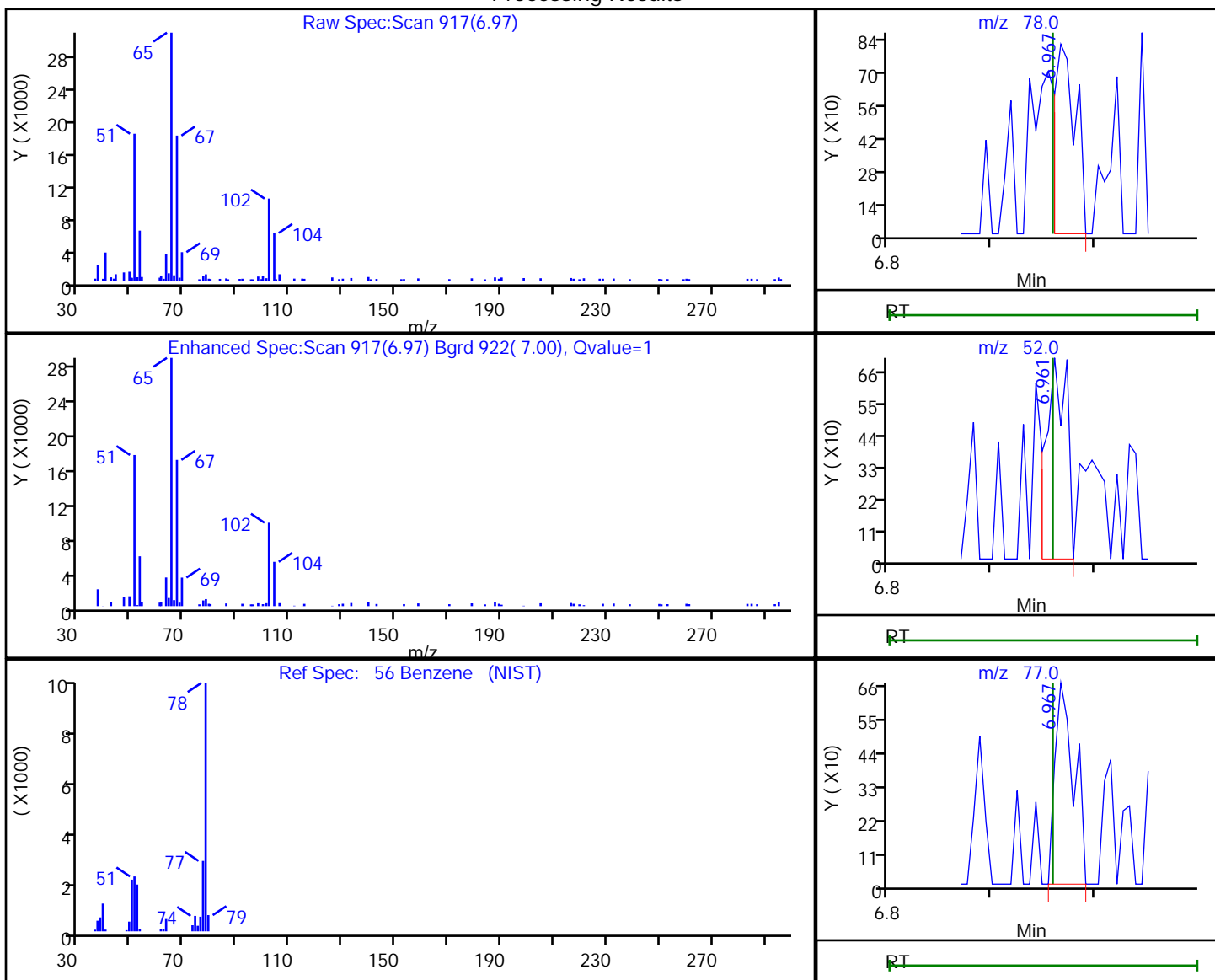
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012508.D  
 Injection Date: 25-Jan-2020 13:54:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-1 Lab Sample ID: 180-101459-1  
 Client ID: HD-COD-SW-29-0/1-0  
 Operator ID: 433269 ALS Bottle#: 2 Worklist Smp#: 8  
 Purge Vol: 5.000 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
6.97	78.00	1169	0.110634
6.96	52.00	980	
6.97	77.00	849	

Reviewer: bowieh, 25-Jan-2020 15:15:28

Audit Action: Marked Compound Undetected

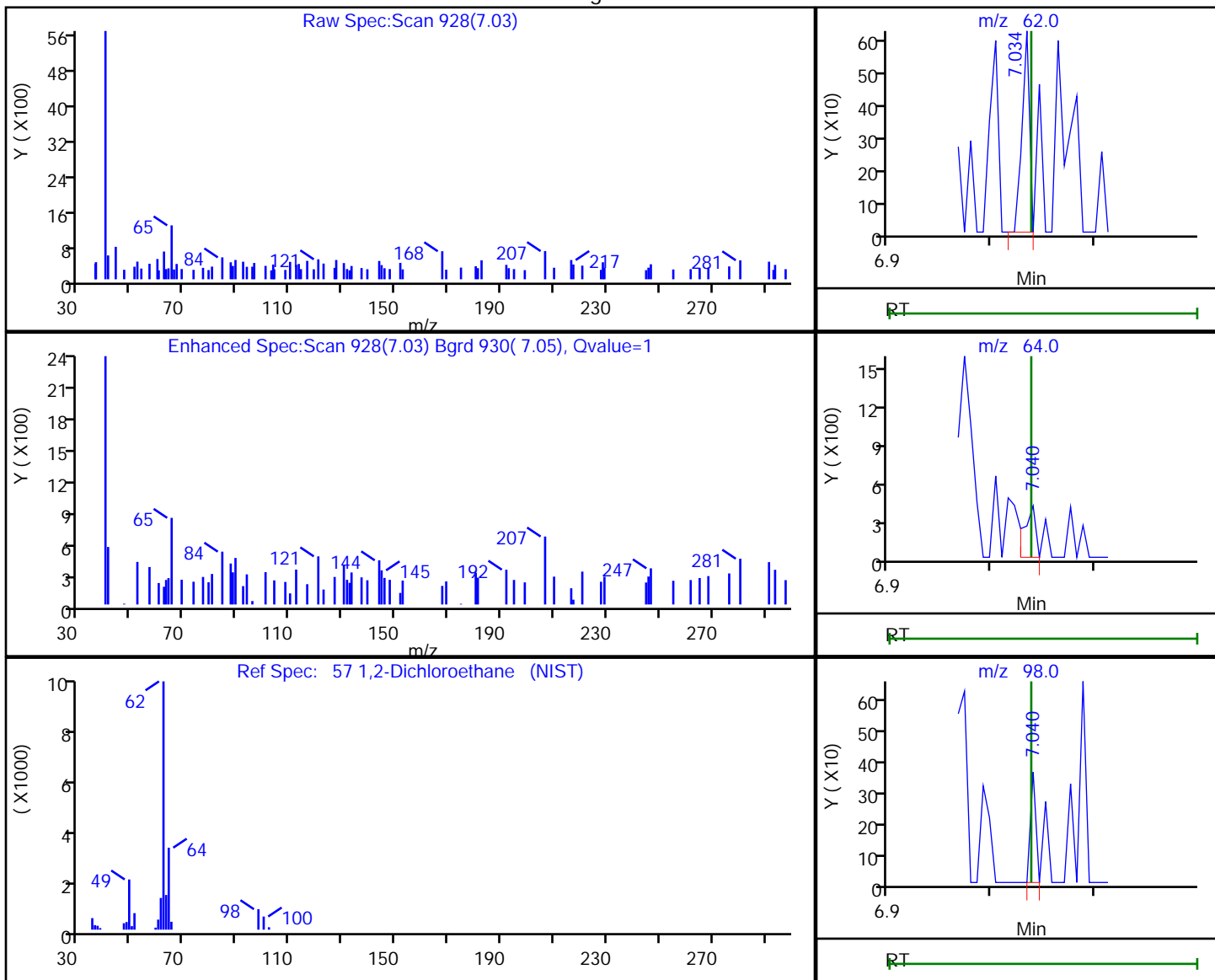
Audit Reason: Invalid Compound ID

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 Lims ID: 180-101459-B-1 Lab Sample ID: 180-101459-1  
 Client ID: HD-COD-SW-29-0/1-0  
 Operator ID: 433269 ALS Bottle#: 2 Worklist Smp#: 8  
 Purge Vol: 5.000 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
7.03	62.00	315	0.108240
7.04	64.00	321	
7.04	98.00	131	

Reviewer: bowieh, 25-Jan-2020 15:15:29

Audit Action: Marked Compound Undetected

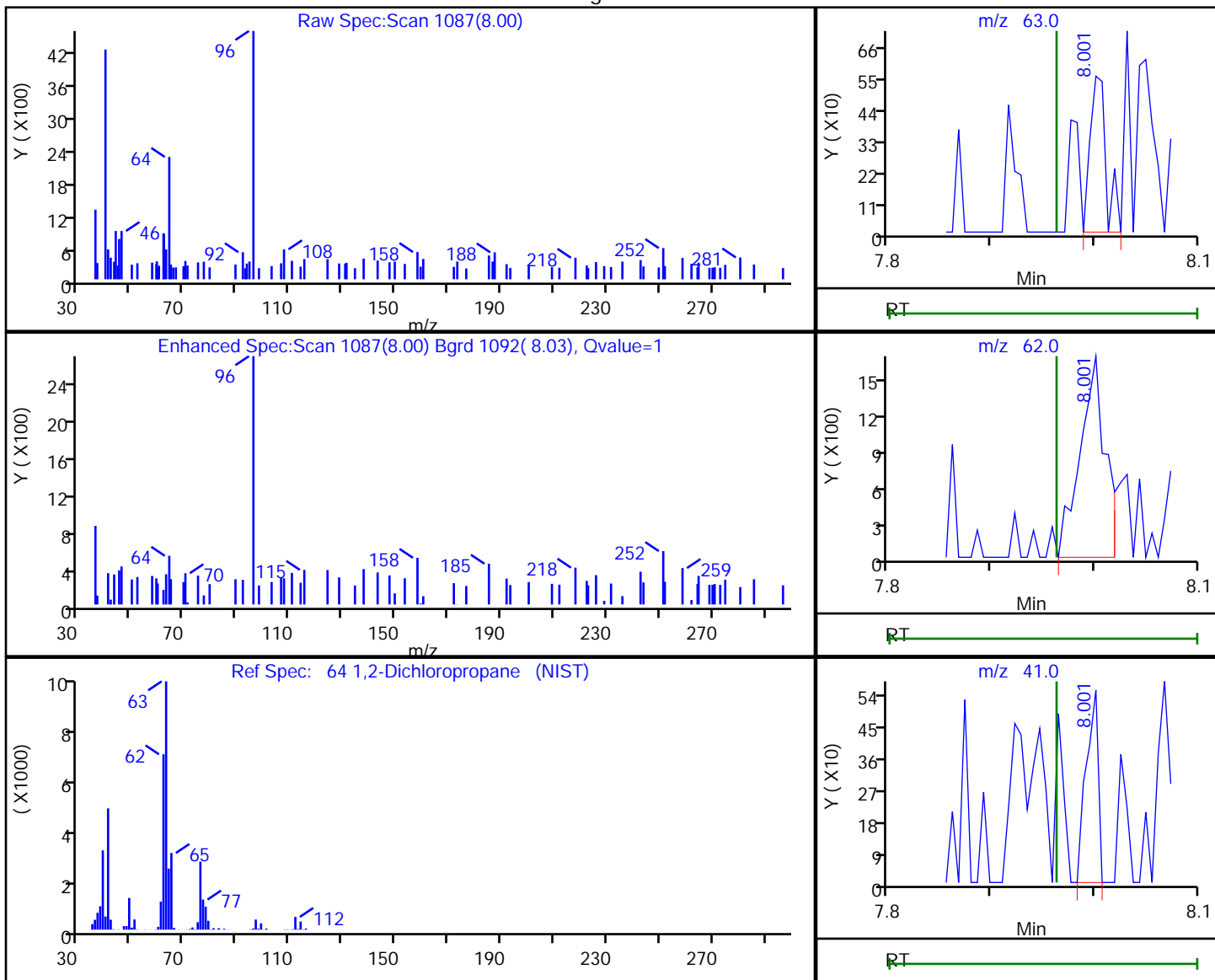
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Injection Date: 25-Jan-2020 13:54:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-1 Lab Sample ID: 180-101459-1  
 Client ID: HD-COD-SW-29-0/1-0  
 Operator ID: 433269 ALS Bottle#: 2 Worklist Smp#: 8  
 Purge Vol: 5.000 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
8.00	63.00	596	0.240959
8.00	62.00	2886	
8.00	41.00	452	

Reviewer: bowieh, 25-Jan-2020 15:15:32

Audit Action: Marked Compound Undetected

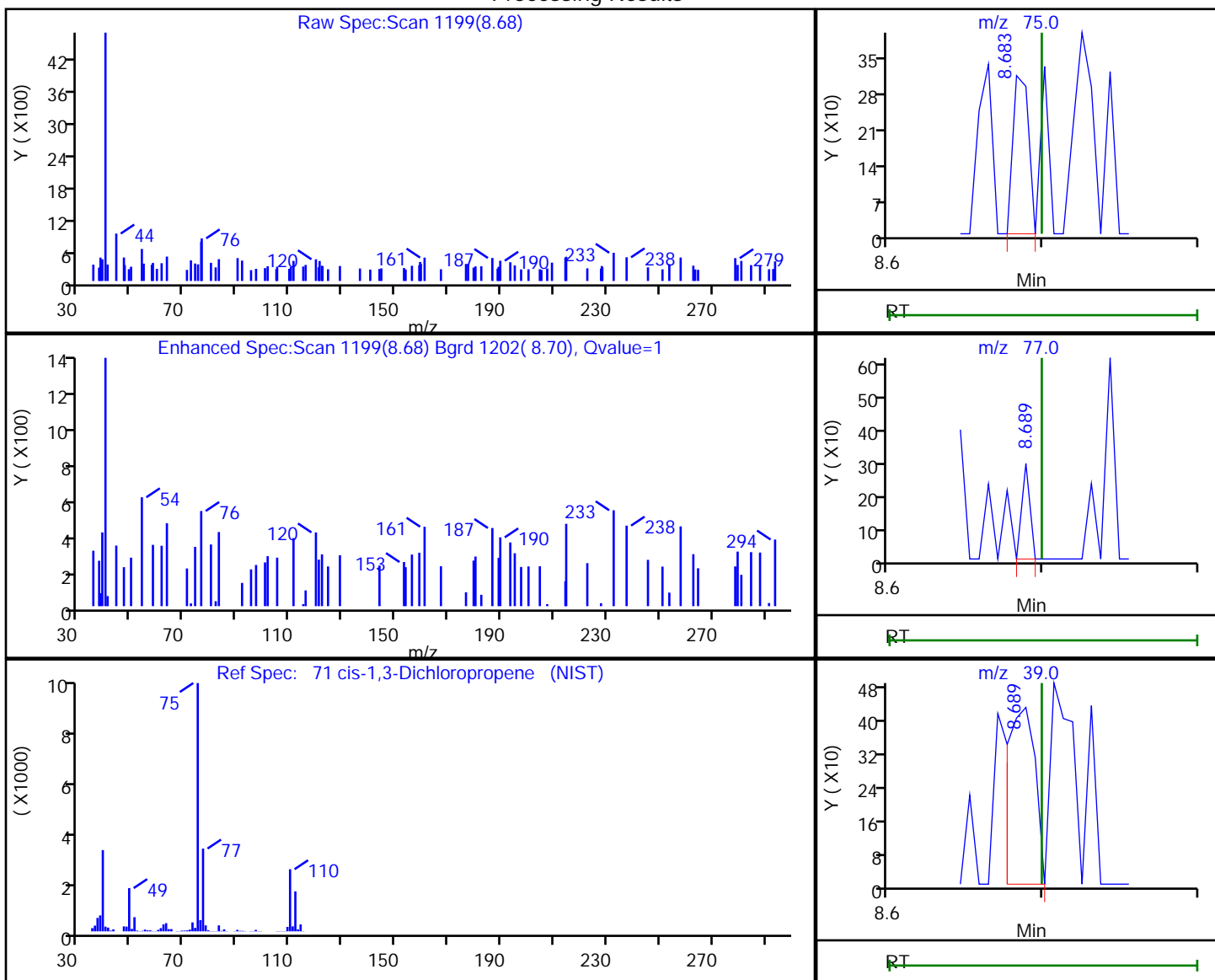
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Injection Date: 25-Jan-2020 13:54:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-1 Lab Sample ID: 180-101459-1  
 Client ID: HD-COD-SW-29-0/1-0  
 Operator ID: 433269 ALS Bottle#: 2 Worklist Smp#: 8  
 Purge Vol: 5.000 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
8.68	75.00	218	0.072911
8.69	77.00	107	
8.69	39.00	539	

Reviewer: bowieh, 25-Jan-2020 15:15:33

Audit Action: Marked Compound Undetected

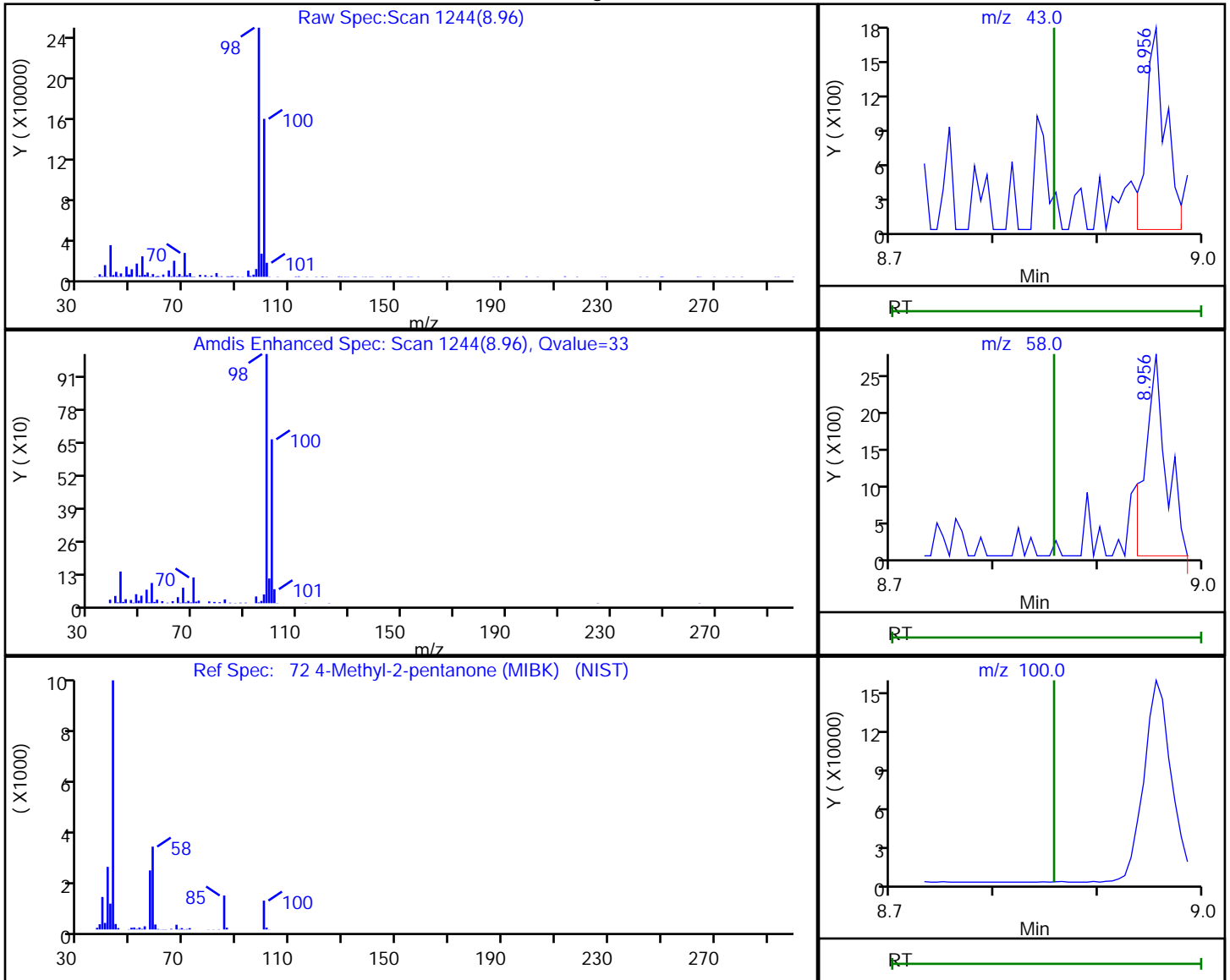
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012508.D  
 Injection Date: 25-Jan-2020 13:54:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-1 Lab Sample ID: 180-101459-1  
 Client ID: HD-COD-SW-29-0/1-0  
 Operator ID: 433269 ALS Bottle#: 2 Worklist Smp#: 8  
 Purge Vol: 5.000 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	2298	1.083977
8.96	58.00	3796	
8.96	100.00	296388	

Reviewer: bowieh, 25-Jan-2020 15:15:35

Audit Action: Marked Compound Undetected

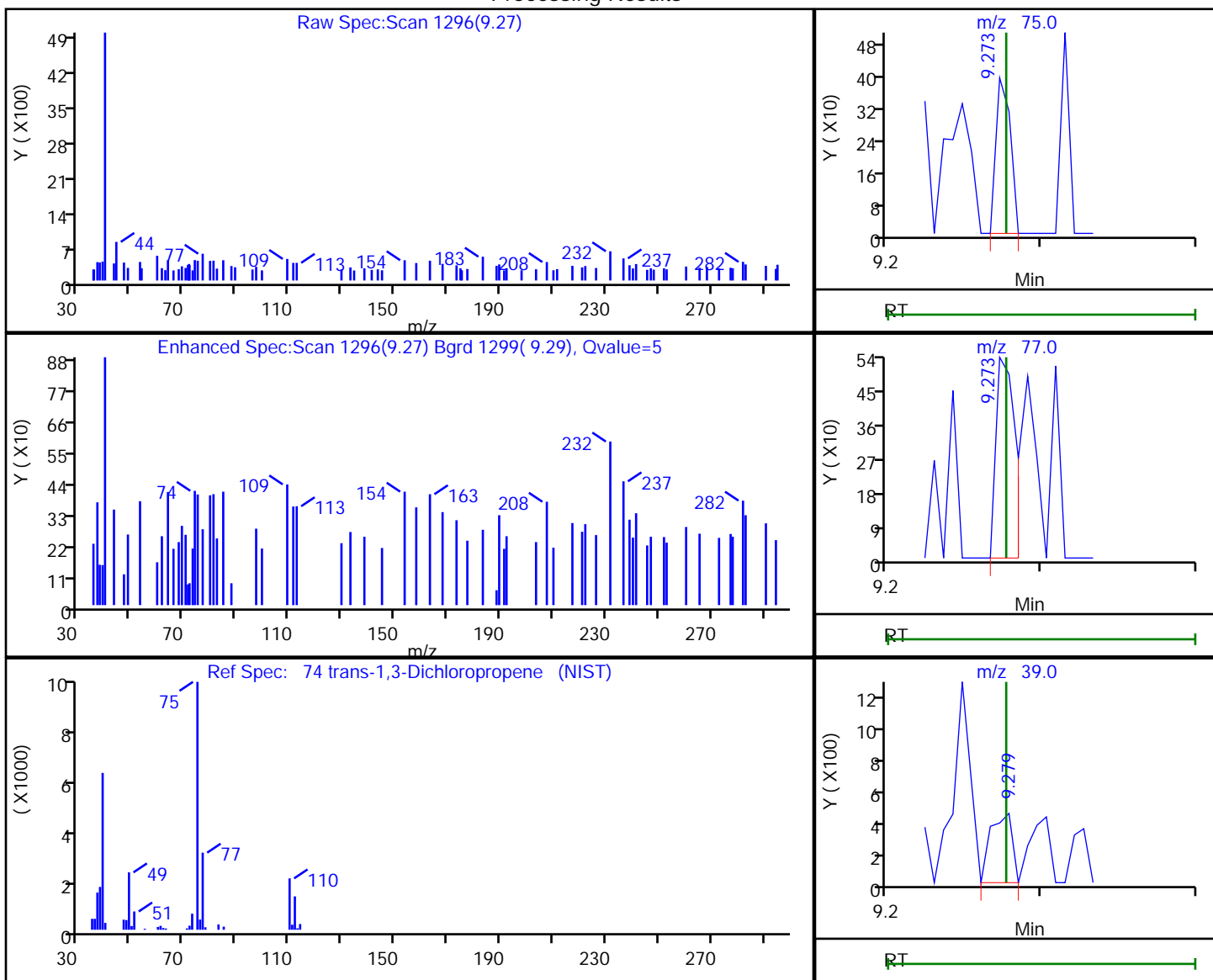
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012508.D  
 Injection Date: 25-Jan-2020 13:54:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-1 Lab Sample ID: 180-101459-1  
 Client ID: HD-COD-SW-29-0/1-0  
 Operator ID: 433269 ALS Bottle#: 2 Worklist Smp#: 8  
 Purge Vol: 5.000 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
9.27	75.00	257	0.104324
9.27	77.00	471	
9.28	39.00	429	

Reviewer: bowieh, 25-Jan-2020 15:15:37

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

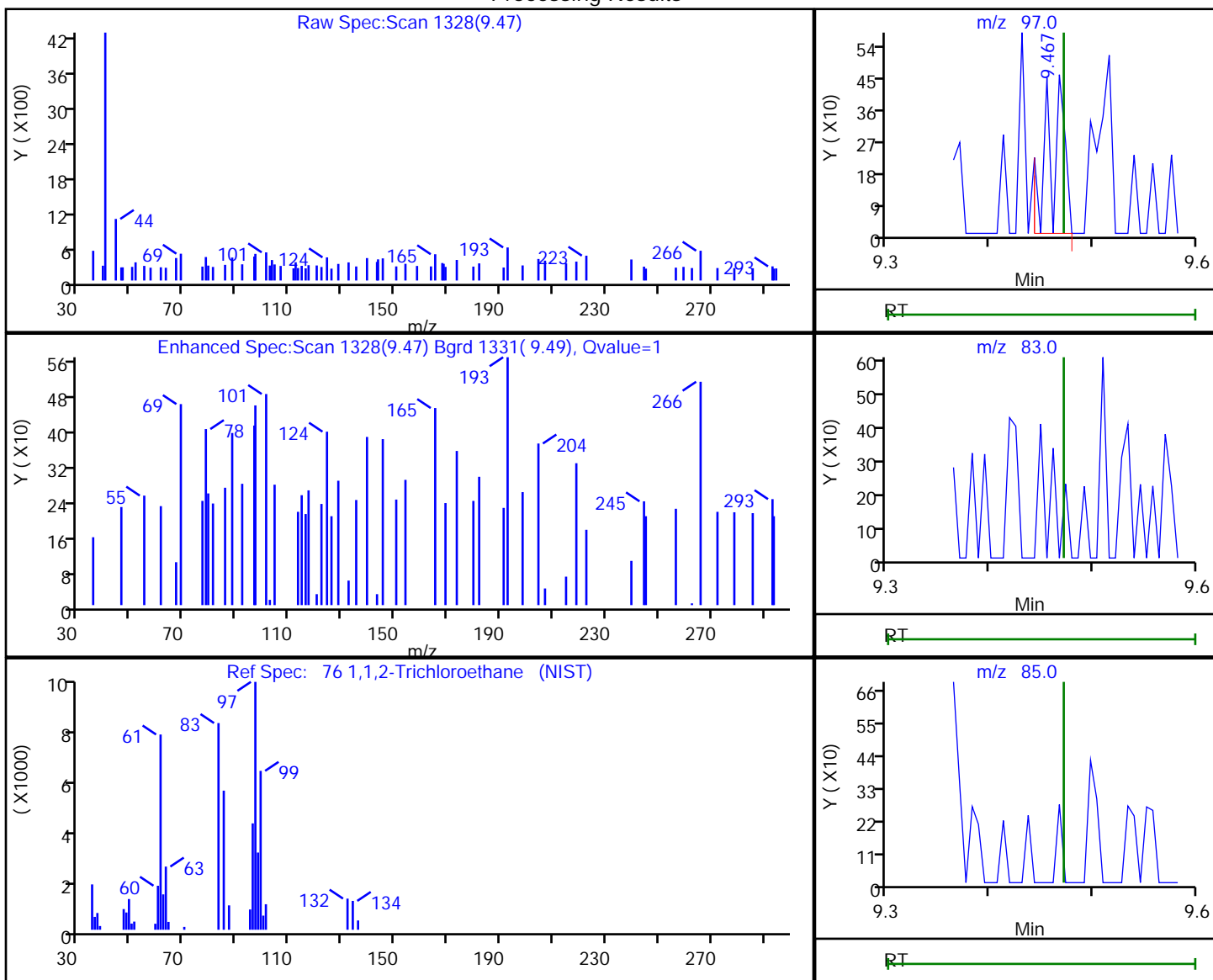


Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012508.D  
 Injection Date: 25-Jan-2020 13:54:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-1 Lab Sample ID: 180-101459-1  
 Client ID: HD-COD-SW-29-0/1-0  
 Operator ID: 433269 ALS Bottle#: 2 Worklist Smp#: 8  
 Purge Vol: 5.000 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
9.47	97.00	505	0.246342
9.47	83.00	0	
9.47	85.00	0	

Reviewer: bowieh, 25-Jan-2020 15:15:38

Audit Action: Marked Compound Undetected

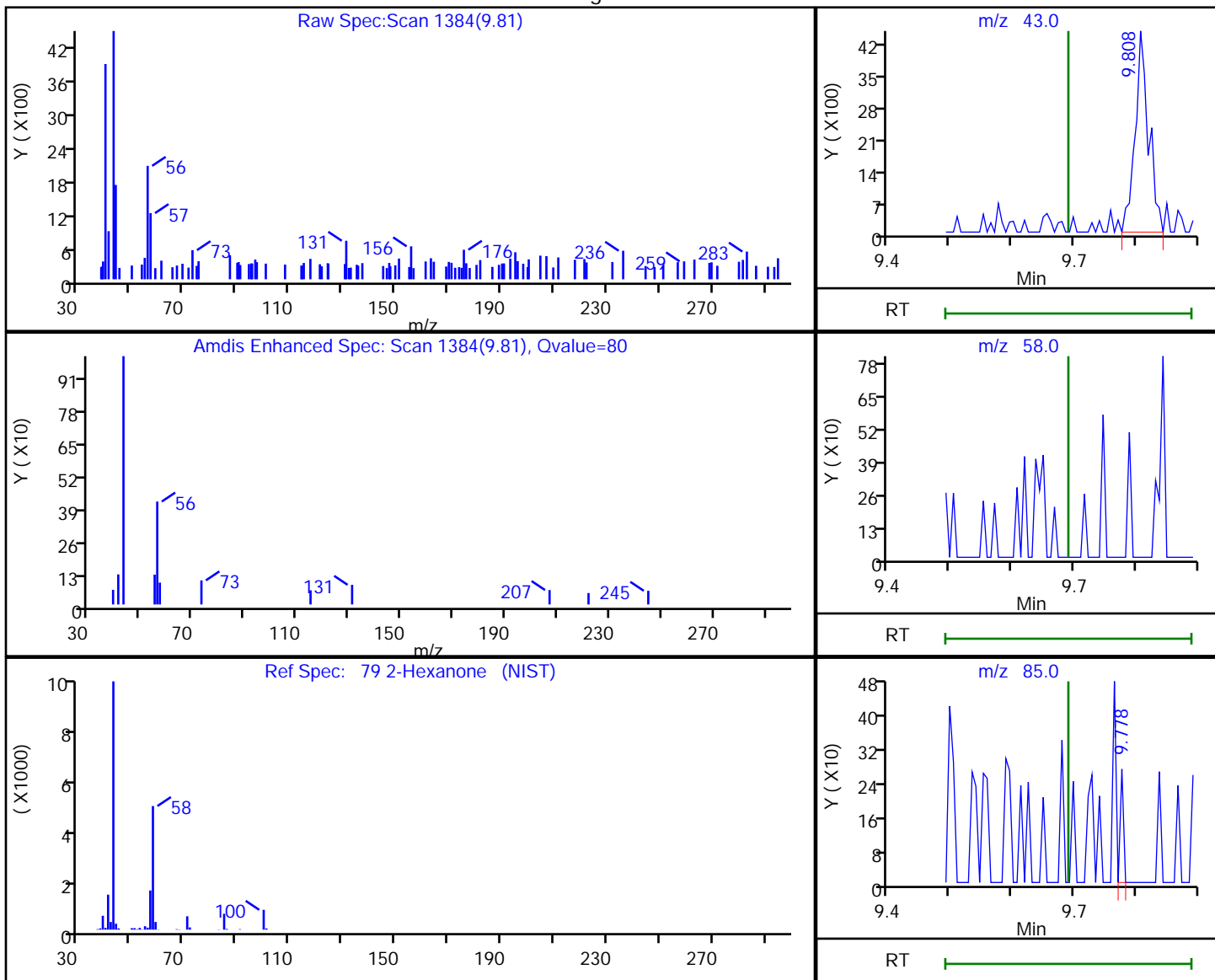
Audit Reason: Invalid Compound ID

Euofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012508.D  
 Injection Date: 25-Jan-2020 13:54:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-1 Lab Sample ID: 180-101459-1  
 Client ID: HD-COD-SW-29-0/1-0  
 Operator ID: 433269 ALS Bottle#: 2 Worklist Smp#: 8  
 Purge Vol: 5.000 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
9.81	43.00	6808	3.728043
9.69	58.00	0	
9.78	85.00	99	

Reviewer: bowieh, 25-Jan-2020 15:15:41

Audit Action: Marked Compound Undetected

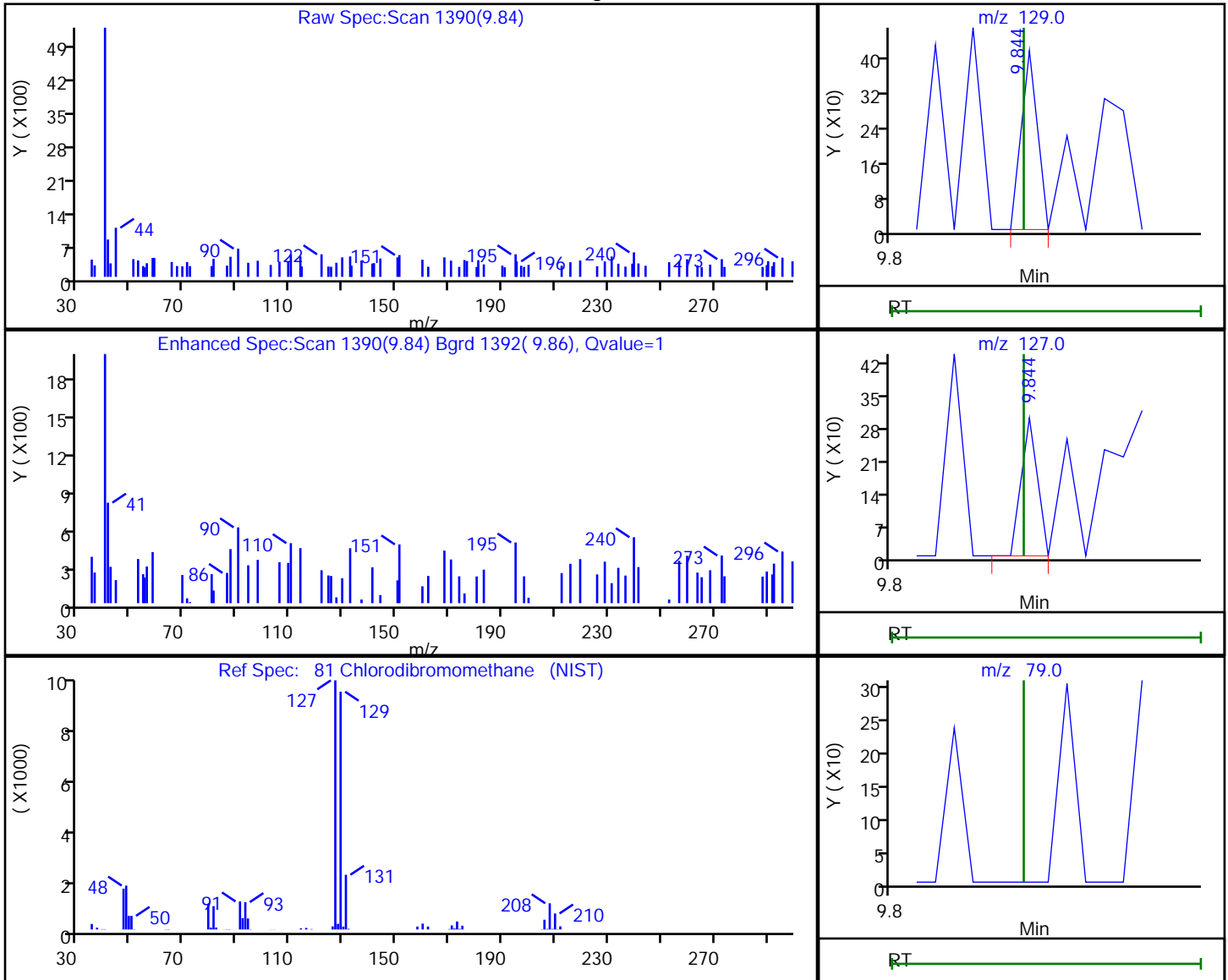
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012508.D  
Injection Date: 25-Jan-2020 13:54:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-1 Lab Sample ID: 180-101459-1  
Client ID: HD-COD-SW-29-0/1-0  
Operator ID: 433269 ALS Bottle#: 2 Worklist Smp#: 8  
Purge Vol: 5.000 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
9.84	129.00	151	0.087213
9.84	127.00	110	
9.84	79.00	0	

Reviewer: bowieh, 25-Jan-2020 15:15:43

Audit Action: Marked Compound Undetected

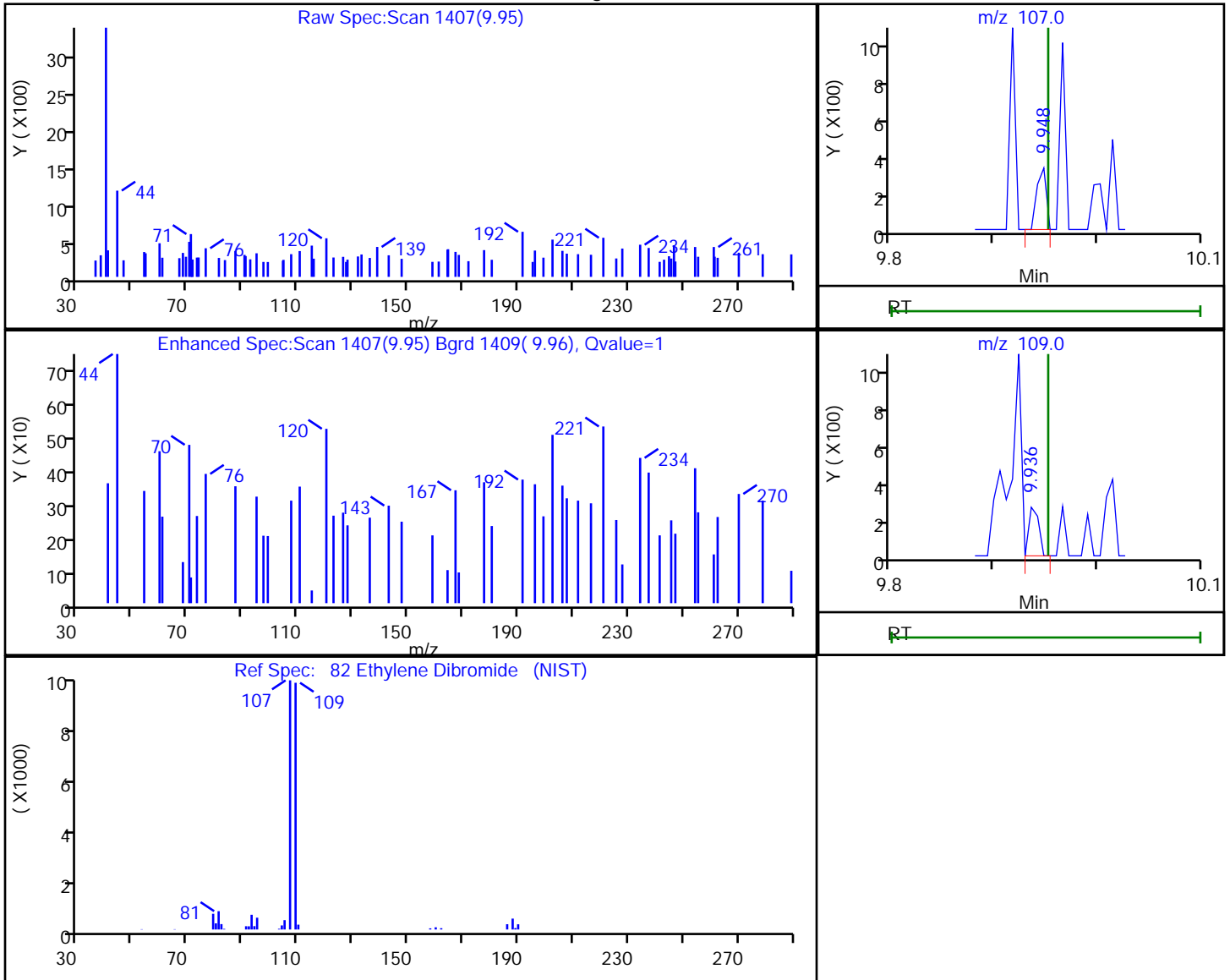
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012508.D  
Injection Date: 25-Jan-2020 13:54:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-1 Lab Sample ID: 180-101459-1  
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Operator ID: 433269 ALS Bottle#: 2 Worklist Smp#: 8  
Purge Vol: 5.000 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
9.95	107.00	195	0.096384
9.94	109.00	167	

Reviewer: bowieh, 25-Jan-2020 15:15:46

Audit Action: Marked Compound Undetected

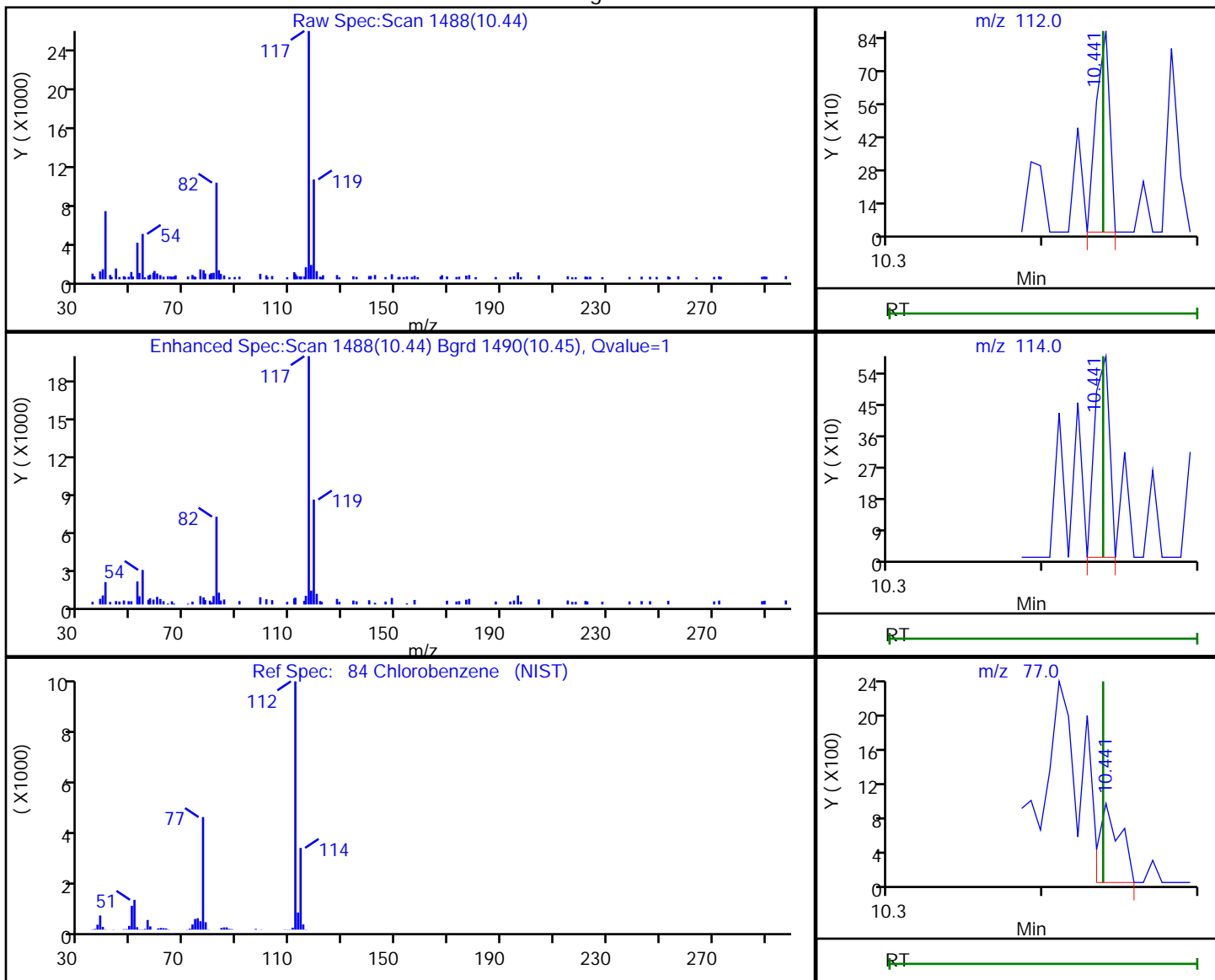
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 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
 Column: DB-624 (0.18 mm) Detector: MS SCAN

84 Chlorobenzene, CAS: 108-90-7

Processing Results



RT	Mass	Response	Amount
10.44	112.00	525	0.069896
10.44	114.00	392	
10.44	77.00	893	

Reviewer: bowieh, 25-Jan-2020 15:15:48

Audit Action: Marked Compound Undetected

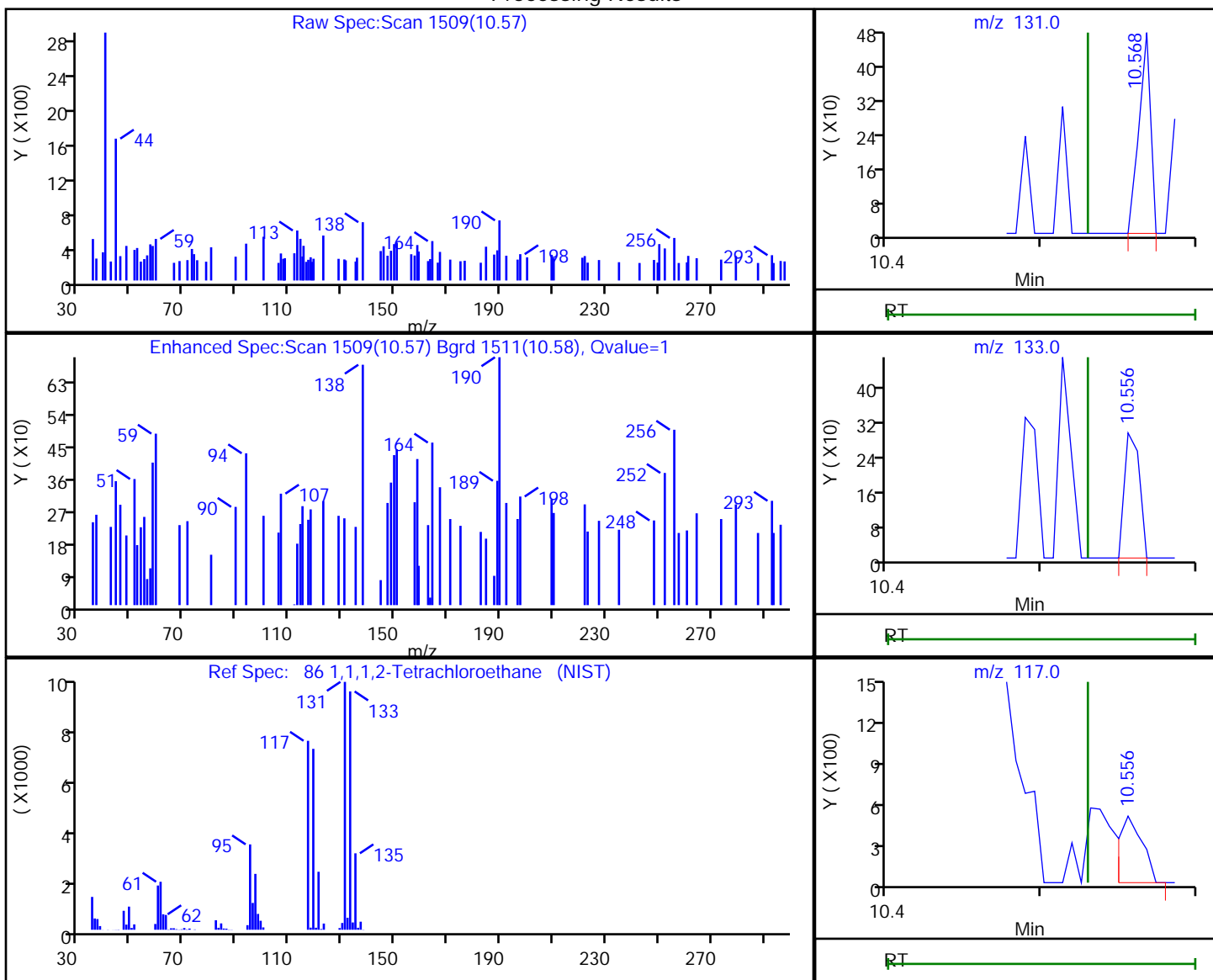
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012508.D  
 Injection Date: 25-Jan-2020 13:54:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-1 Lab Sample ID: 180-101459-1  
 Client ID: HD-COD-SW-29-0/1-0  
 Operator ID: 433269 ALS Bottle#: 2 Worklist Smp#: 8  
 Purge Vol: 5.000 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
10.57	131.00	249	0.112858
10.56	133.00	196	
10.56	117.00	503	

Reviewer: bowieh, 25-Jan-2020 15:15:50

Audit Action: Marked Compound Undetected

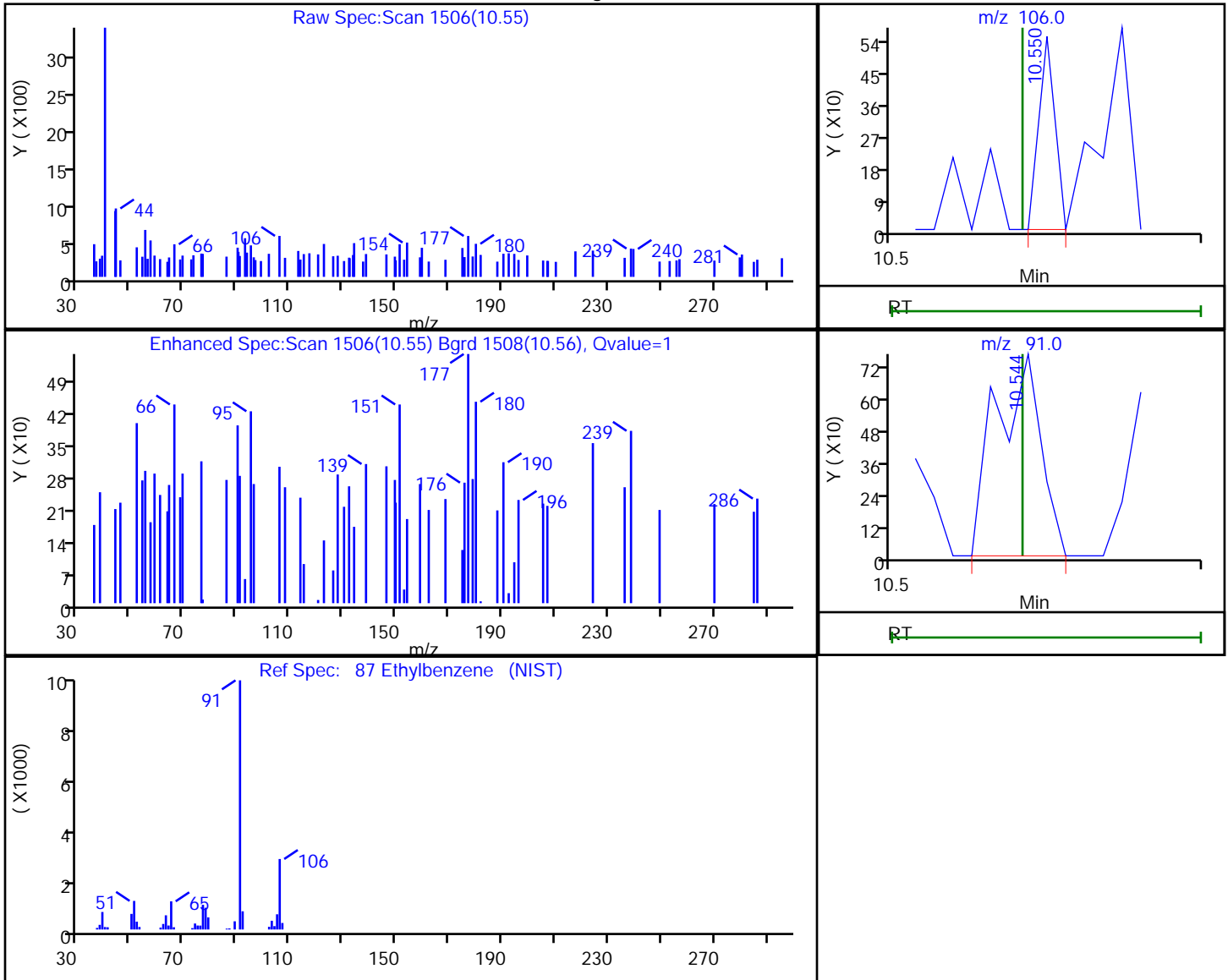
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012508.D  
 Injection Date: 25-Jan-2020 13:54:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-1 Lab Sample ID: 180-101459-1  
 Client ID: HD-COD-SW-29-0/1-0  
 Operator ID: 433269 ALS Bottle#: 2 Worklist Smp#: 8  
 Purge Vol: 5.000 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
10.55	106.00	200	0.046529
10.54	91.00	772	

Reviewer: bowieh, 25-Jan-2020 15:15:51

Audit Action: Marked Compound Undetected

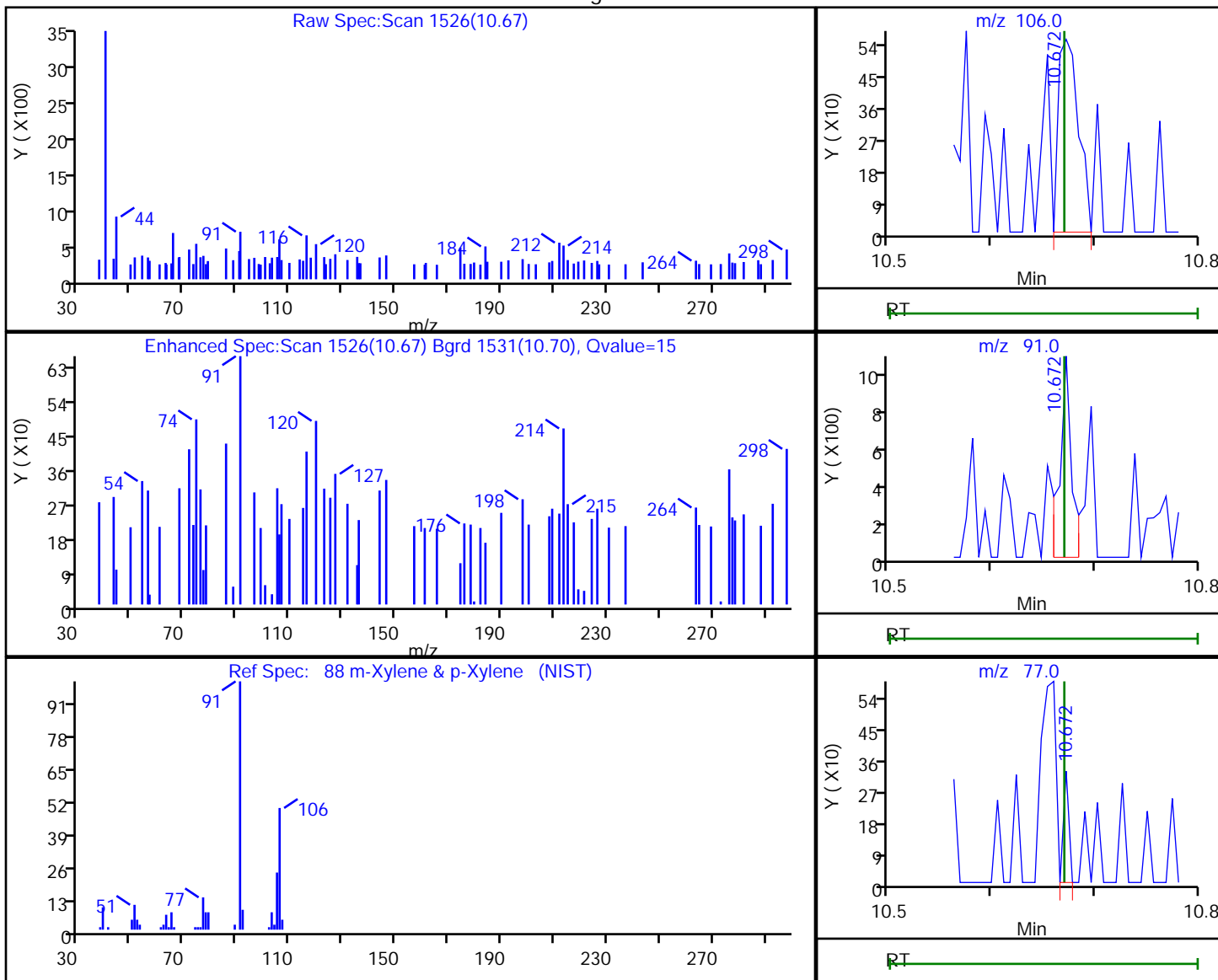
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012508.D  
 Injection Date: 25-Jan-2020 13:54:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-1 Lab Sample ID: 180-101459-1  
 Client ID: HD-COD-SW-29-0/1-0  
 Operator ID: 433269 ALS Bottle#: 2 Worklist Smp#: 8  
 Purge Vol: 5.000 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
10.67	106.00	752	0.145945
10.67	91.00	836	
10.67	77.00	118	

Reviewer: bowieh, 25-Jan-2020 15:15:53

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID



Eurofins TestAmerica, Pittsburgh

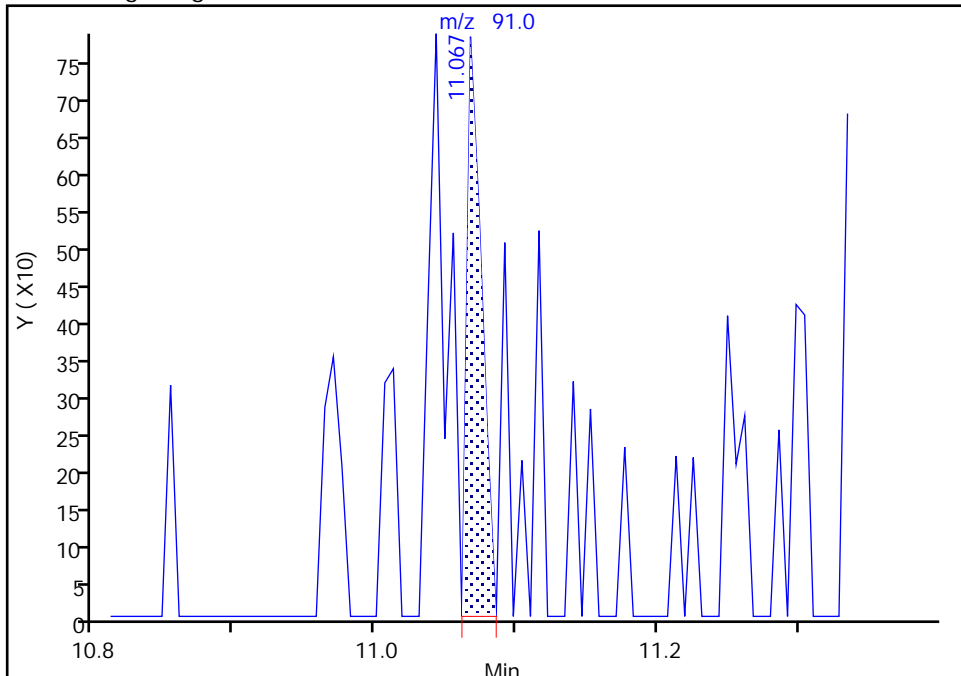
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Injection Date: 25-Jan-2020 13:54:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-1 Lab Sample ID: 180-101459-1  
Client ID: HD-COD-SW-29-0/1-0  
Operator ID: 433269 ALS Bottle#: 2 Worklist Smp#: 8  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: 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

Signal: 2

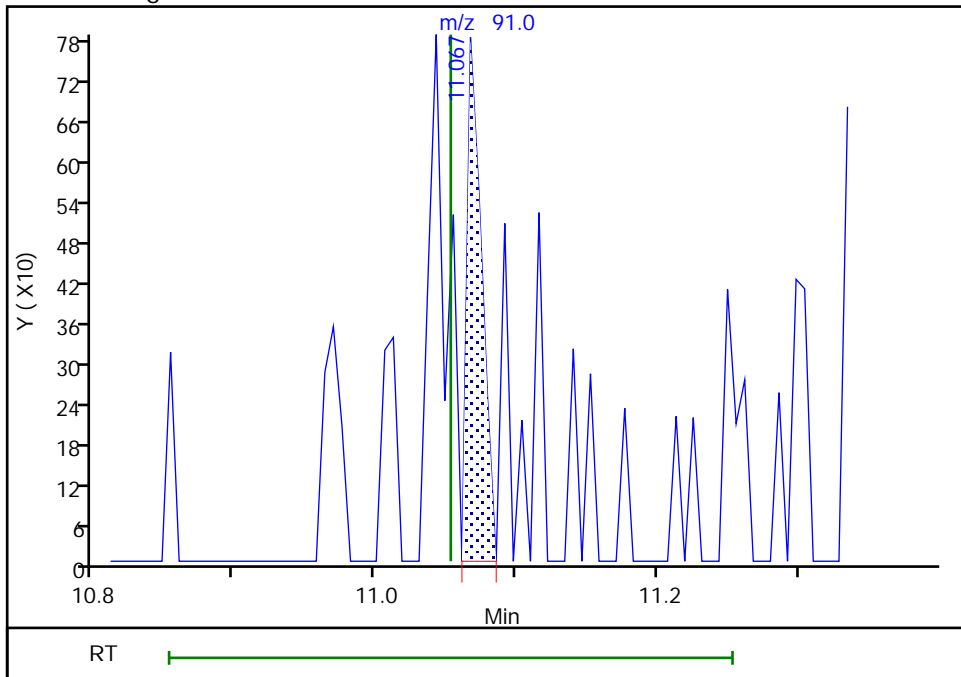
RT: 11.07  
Area: 570  
Amount: 0.254761  
Amount Units: ng

Processing Integration Results



RT: 11.07  
Area: 570  
Amount: 0.254761  
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 25-Jan-2020 15:15:54  
Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID  
Page 173 of 880

Eurofins TestAmerica, Pittsburgh

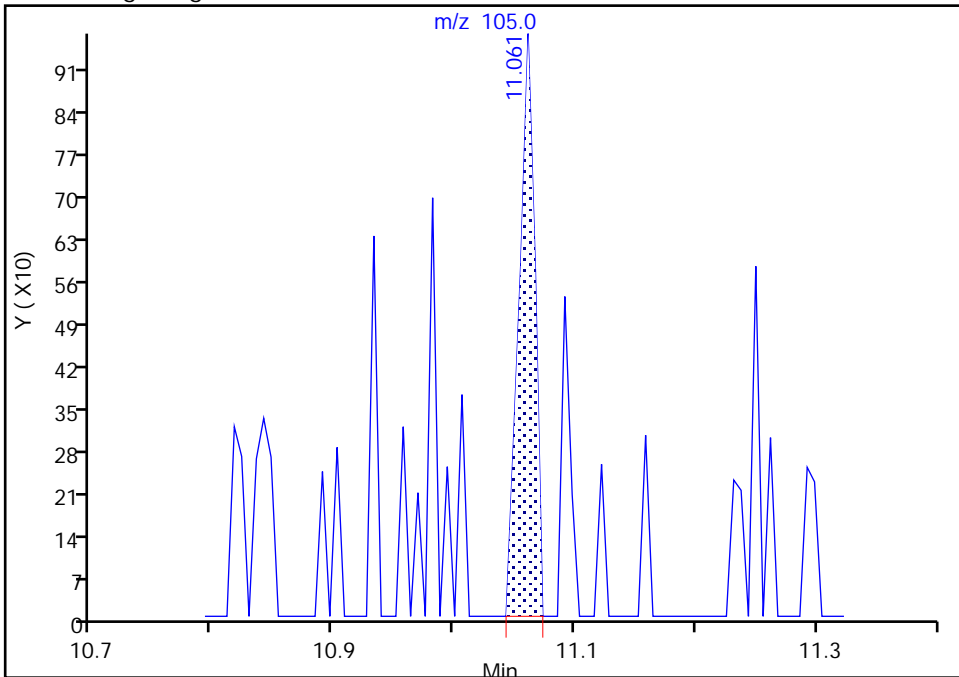
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Injection Date: 25-Jan-2020 13:54:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-1 Lab Sample ID: 180-101459-1  
Client ID: HD-COD-SW-29-0/1-0  
Operator ID: 433269 ALS Bottle#: 2 Worklist Smp#: 8  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: 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

Signal: 3

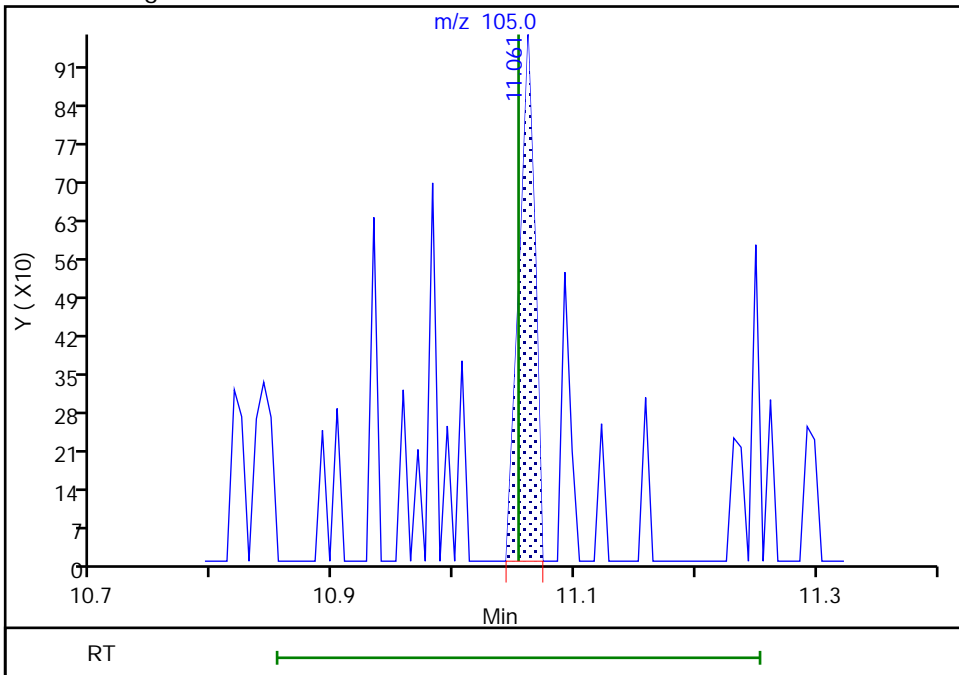
RT: 11.06  
Area: 877  
Amount: 0.254761  
Amount Units: ng

Processing Integration Results



RT: 11.06  
Area: 877  
Amount: 0.254761  
Amount Units: ng

Manual Integration Results



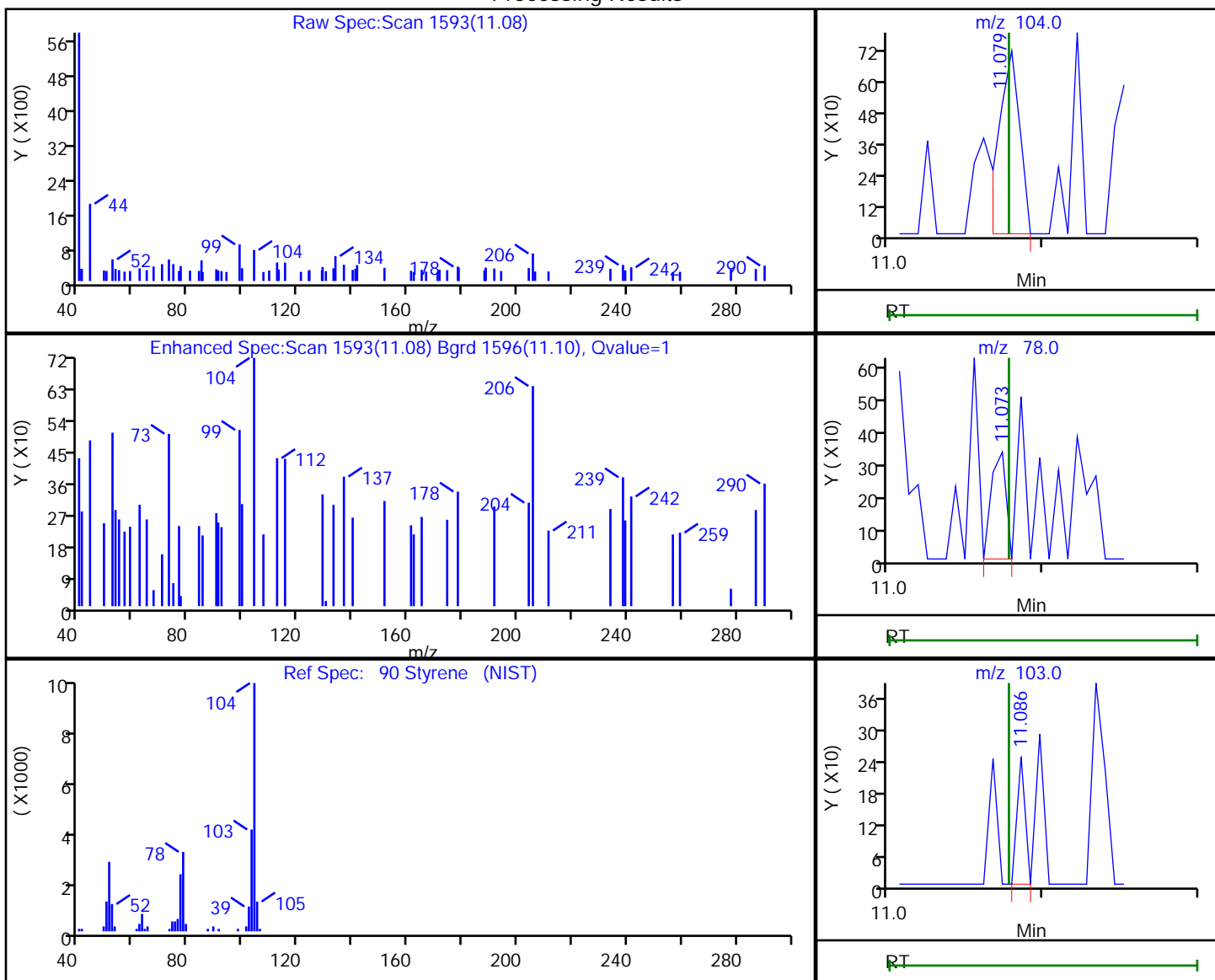
Reviewer: bowieh, 25-Jan-2020 15:15:54  
Audit Action: Marked Compound Undetected

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012508.D  
 Injection Date: 25-Jan-2020 13:54:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-1 Lab Sample ID: 180-101459-1  
 Client ID: HD-COD-SW-29-0/1-0  
 Operator ID: 433269 ALS Bottle#: 2 Worklist Smp#: 8  
 Purge Vol: 5.000 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
11.08	104.00	672	0.086524
11.07	78.00	220	
11.09	103.00	89	

Reviewer: bowieh, 25-Jan-2020 15:15:56

Audit Action: Marked Compound Undetected

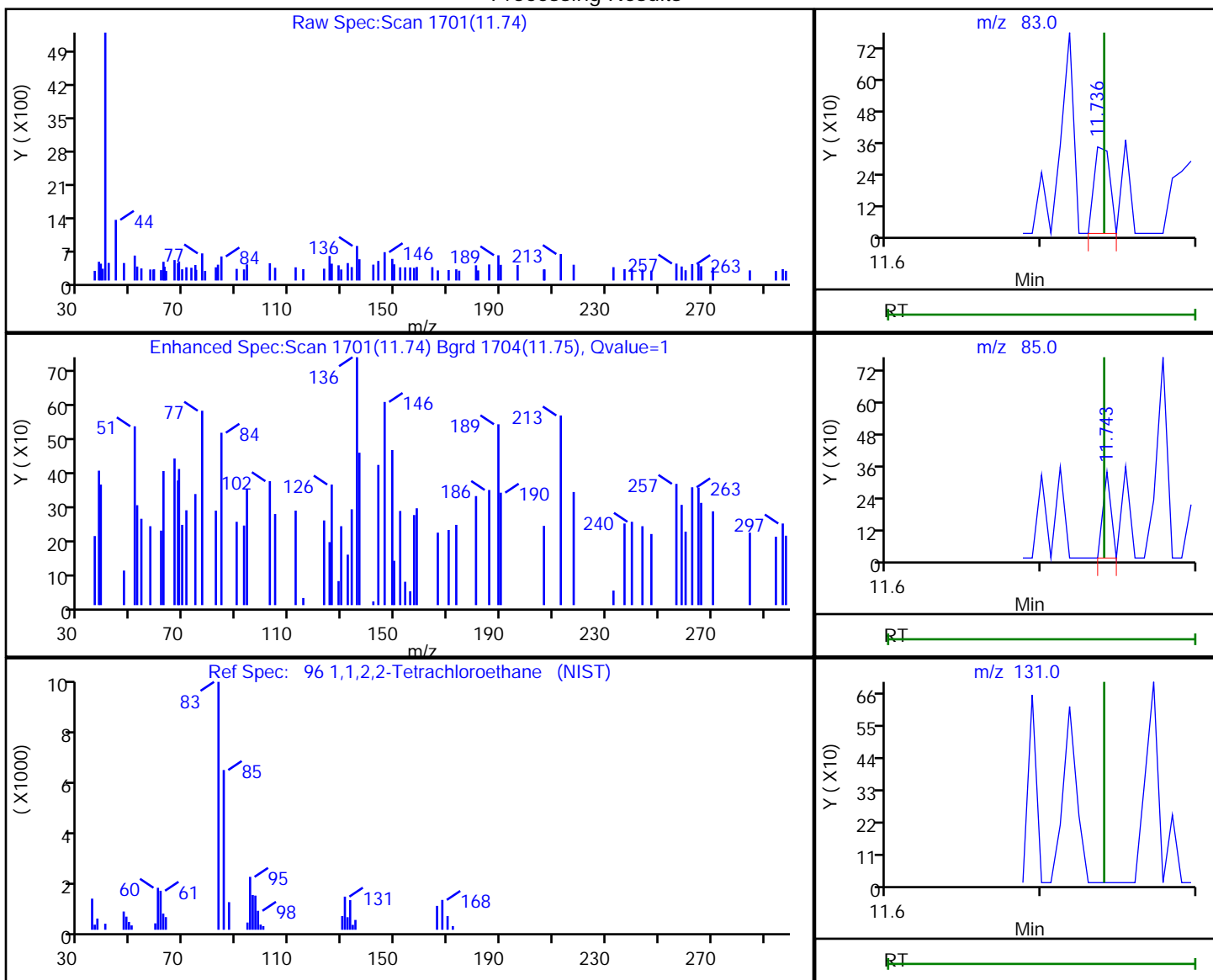
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012508.D  
 Injection Date: 25-Jan-2020 13:54:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-1 Lab Sample ID: 180-101459-1  
 Client ID: HD-COD-SW-29-0/1-0  
 Operator ID: 433269 ALS Bottle#: 2 Worklist Smp#: 8  
 Purge Vol: 5.000 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
11.74	83.00	239	0.109378
11.74	85.00	119	
11.74	131.00	0	

Reviewer: bowieh, 25-Jan-2020 15:15:58

Audit Action: Marked Compound Undetected

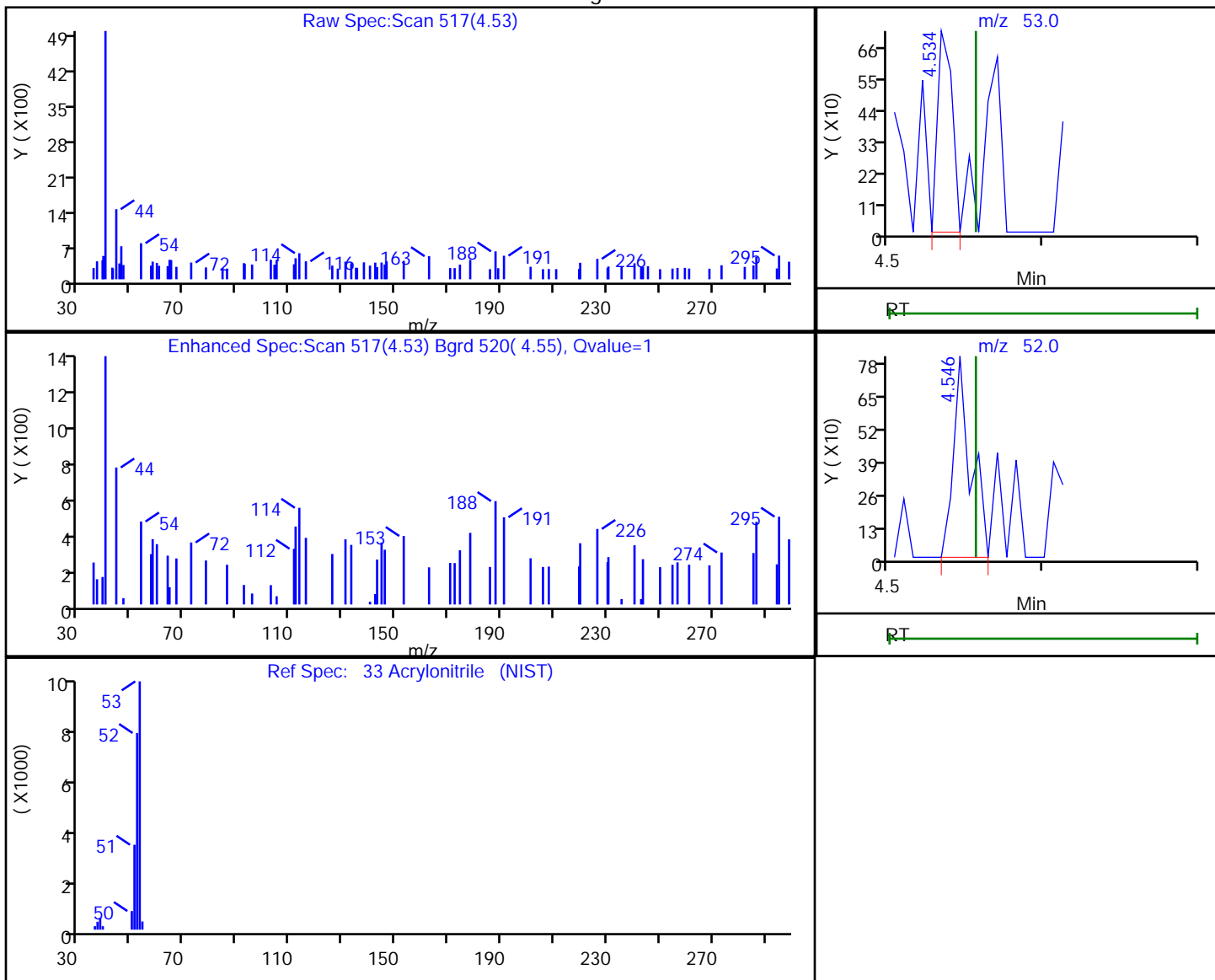
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012508.D  
 Injection Date: 25-Jan-2020 13:54:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-1 Lab Sample ID: 180-101459-1  
 Client ID: HD-COD-SW-29-0/1-0  
 Operator ID: 433269 ALS Bottle#: 2 Worklist Smp#: 8  
 Purge Vol: 5.000 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
4.53	53.00	473	0.492483
4.55	52.00	624	

Reviewer: bowieh, 25-Jan-2020 15:15:08

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.: 180-101459-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: HD-COD-SW-8-0/1-0 Lab Sample ID: 180-101459-2  
 Matrix: Water Lab File ID: 6012509.D  
 Analysis Method: EPA 8260C Date Collected: 01/23/2020 10:20  
 Sample wt/vol: 5 (mL) Date Analyzed: 01/25/2020 14:21  
 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.: 304996 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	ND	^c	1.0	0.88
74-83-9	Bromomethane	ND	^c	1.0	0.89
75-00-3	Chloroethane	ND	^c	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.: 180-101459-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: HD-COD-SW-8-0/1-0 Lab Sample ID: 180-101459-2  
 Matrix: Water Lab File ID: 6012509.D  
 Analysis Method: EPA 8260C Date Collected: 01/23/2020 10:20  
 Sample wt/vol: 5 (mL) Date Analyzed: 01/25/2020 14:21  
 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.: 304996 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)	107		70-150
2037-26-5	Toluene-d8 (Surr)	100		78-128
460-00-4	4-Bromofluorobenzene (Surr)	77		64-123
1868-53-7	Dibromofluoromethane (Surr)	95		75-147

Eurofins TestAmerica, Pittsburgh  
Target Compound Quantitation Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012509.D  
 Lims ID: 180-101459-B-2  
 Client ID: HD-COD-SW-8-0/1-0  
 Sample Type: Client  
 Inject. Date: 25-Jan-2020 14:21:30 ALS Bottle#: 3 Worklist Smp#: 9  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 180-0030512-009  
 Misc. Info.: 180-101459-b-2  
 Operator ID: 433269 Instrument ID: CHHP6  
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\MSVOA\_LL\_CHHP6.m  
 Limit Group: VOA 8260C\_D ICAL  
 Last Update: 25-Jan-2020 15:17:23 Calib Date: 31-Dec-2019 16:03:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123111.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0321

First Level Reviewer: bowieh

Date: 25-Jan-2020 15:17:23

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.310	4.319	-0.009	87	141822	1000.0	
* 2 Fluorobenzene (IS)	96	7.303	7.306	-0.003	99	520801	50.0	
* 3 Chlorobenzene-d5	119	10.405	10.408	-0.003	85	135333	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.753	12.757	-0.004	93	186094	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.585	6.582	0.003	94	111739	47.6	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.950	6.953	-0.003	96	130133	53.3	
\$ 7 Toluene-d8 (Surr)	98	8.963	8.954	0.009	94	500945	50.0	
\$ 8 4-Bromofluorobenzene (Surr	95	11.598	11.595	0.003	0	138672	38.7	
12 Chloromethane	50	1.840	1.837	0.003	33	3392	0.8547	
13 Vinyl chloride	62		1.952				ND	U
15 Bromomethane	94		2.287				ND	U
16 Chloroethane	64		2.421				ND	U
22 1,1-Dichloroethene	96		3.370				ND	U
24 Acetone	43	3.470	3.473	-0.003	85	8799	6.92	
26 Carbon disulfide	76		3.662				ND	U
31 Methylene Chloride	84		4.155				ND	U
33 Acrylonitrile	53		4.556				ND	U
34 trans-1,2-Dichloroethene	96		4.574				ND	U
35 Methyl tert-butyl ether	73		4.611				ND	U
37 1,1-Dichloroethane	63		5.219				ND	U
43 cis-1,2-Dichloroethene	96		5.967				ND	U
44 2-Butanone (MEK)	43		5.980				ND	U
48 Chlorobromomethane	128		6.247				ND	U
50 Chloroform	83		6.393				ND	U
51 1,1,1-Trichloroethane	97		6.558				ND	U
53 Carbon tetrachloride	117		6.722				ND	U
56 Benzene	78		6.959				ND	U
57 1,2-Dichloroethane	62		7.038				ND	U
61 Trichloroethene	130	7.704	7.689	0.015	37	1784	0.5347	
64 1,2-Dichloropropane	63		7.963				ND	U
68 Dichlorobromomethane	83		8.249				ND	U



Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
71 cis-1,3-Dichloropropene	75		8.699				ND	U
72 4-Methyl-2-pentanone (MIBK)	43		8.857				ND	U
73 Toluene	91	9.018	9.021	-0.003	15	2875	0.2254	
74 trans-1,3-Dichloropropene	75		9.277				ND	U
76 1,1,2-Trichloroethane	97		9.472				ND	U
77 Tetrachloroethene	164		9.538				ND	U
79 2-Hexanone	43		9.691				ND	U
81 Chlorodibromomethane	129		9.843				ND	U
82 Ethylene Dibromide	107		9.952				ND	U
84 Chlorobenzene	112		10.439				ND	U
86 1,1,1,2-Tetrachloroethane	131		10.530				ND	U
87 Ethylbenzene	106		10.542				ND	U
88 m-Xylene & p-Xylene	106		10.670				ND	U
89 o-Xylene	106		11.053				ND	U
90 Styrene	104		11.078				ND	
91 Bromoform	173		11.254				ND	
96 1,1,2,2-Tetrachloroethane	83		11.741				ND	U
S 131 Xylenes, Total	106		1.000				ND	

### QC Flag Legend

Review Flags

U - Marked Undetected

### Reagents:

VOA8260INT\_00103

Amount Added: 2.00

Units: uL

Run Reagent

VOA8260SURR\_00103

Amount Added: 2.00

Units: uL

Run Reagent

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012509.D

Injection Date: 25-Jan-2020 14:21:30

Instrument ID: CHHP6

Operator ID: 433269

Lims ID: 180-101459-B-2

Lab Sample ID: 180-101459-2

Worklist Smp#: 9

Client ID: HD-COD-SW-8-0/1-0

Purge Vol: 5.000 mL

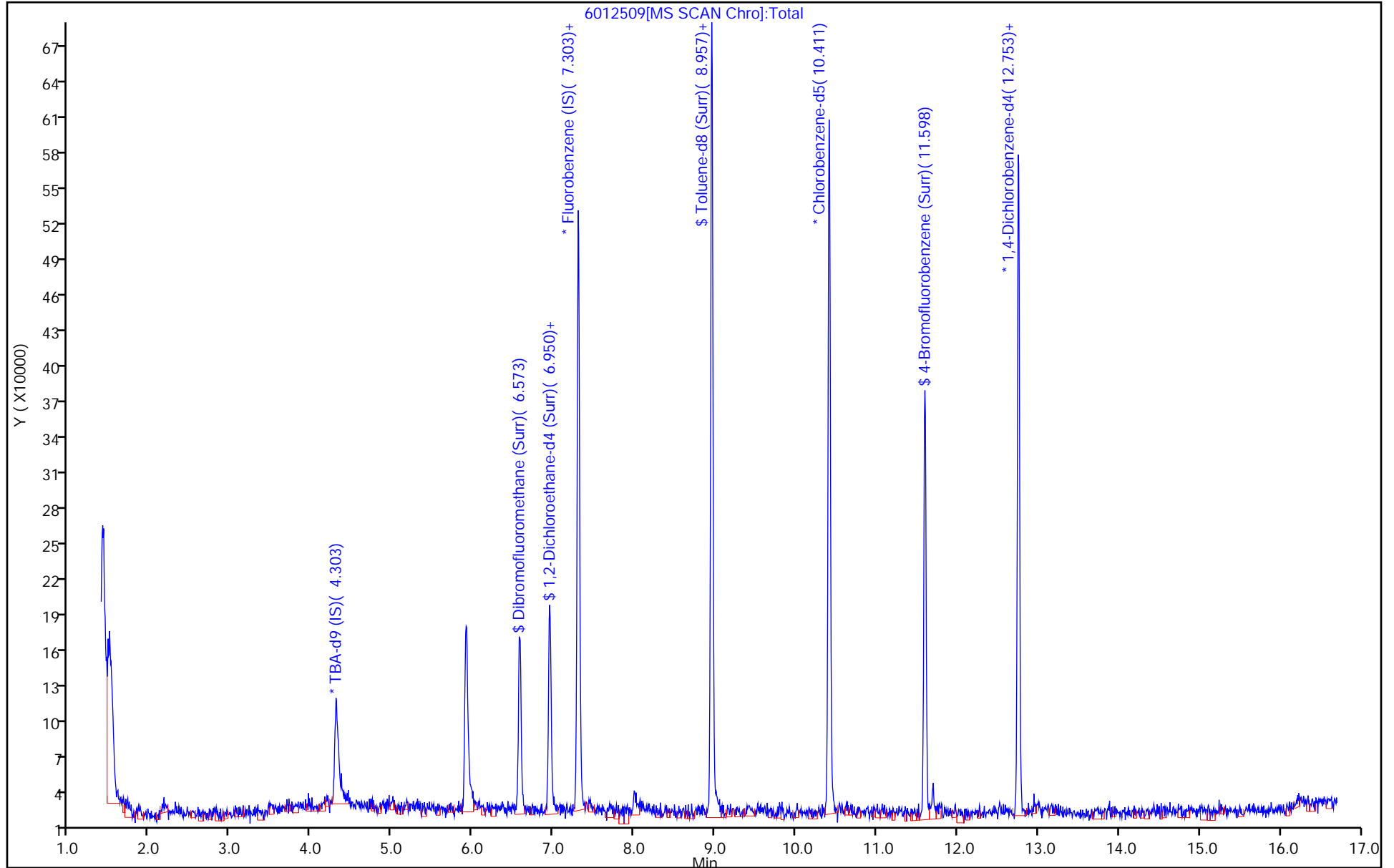
Dil. Factor: 1.0000

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\20200125-30512.b\6012509.D  
 Lims ID: 180-101459-B-2  
 Client ID: HD-COD-SW-8-0/1-0  
 Sample Type: Client  
 Inject. Date: 25-Jan-2020 14:21:30 ALS Bottle#: 3 Worklist Smp#: 9  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 180-0030512-009  
 Misc. Info.: 180-101459-b-2  
 Operator ID: 433269 Instrument ID: CHHP6  
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\MSVOA\_LL\_CHHP6.m  
 Limit Group: VOA 8260C\_D ICAL  
 Last Update: 25-Jan-2020 15:17:23 Calib Date: 31-Dec-2019 16:03:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123111.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0321

First Level Reviewer: bowieh Date: 25-Jan-2020 15:17:23

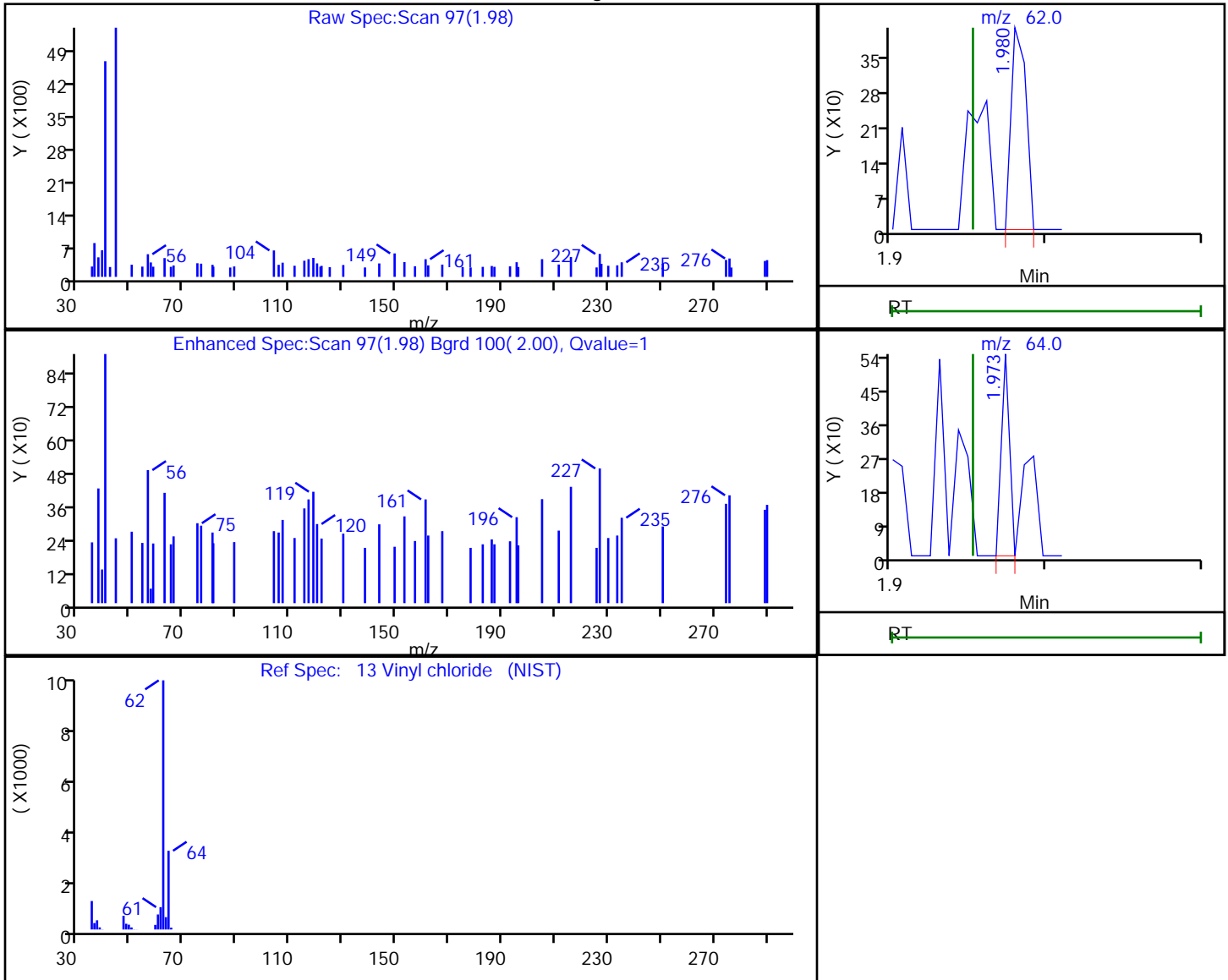
Compound	Amount Added	Amount Recovered	% Rec.
\$ 5 Dibromofluoromethane (Surr)	50.0	47.6	95.23
\$ 6 1,2-Dichloroethane-d4 (Surr)	50.0	53.3	106.57
\$ 7 Toluene-d8 (Surr)	50.0	50.0	99.93
\$ 8 4-Bromofluorobenzene (Surr)	50.0	38.7	77.45

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012509.D  
 Injection Date: 25-Jan-2020 14:21:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-2 Lab Sample ID: 180-101459-2  
 Client ID: HD-COD-SW-8-0/1-0  
 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

13 Vinyl chloride, CAS: 75-01-4

Processing Results



RT	Mass	Response	Amount
1.98	62.00	268	0.078469
1.97	64.00	201	

Reviewer: bowieh, 25-Jan-2020 15:16:28

Audit Action: Marked Compound Undetected

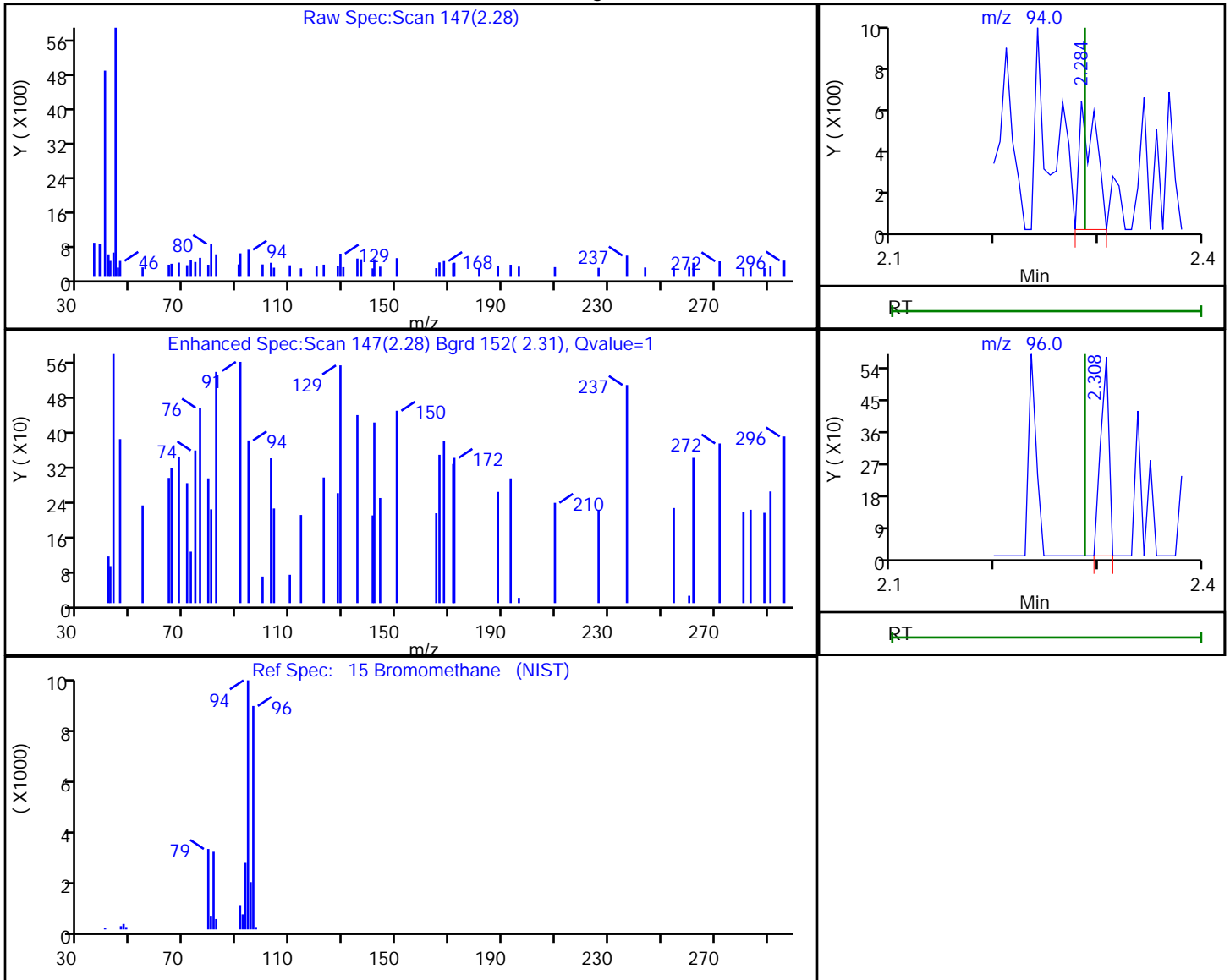
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012509.D  
Injection Date: 25-Jan-2020 14:21:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-2 Lab Sample ID: 180-101459-2  
Client ID: HD-COD-SW-8-0/1-0  
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
2.28	94.00	687	0.315282
2.31	96.00	319	

Reviewer: bowieh, 25-Jan-2020 15:16:29

Audit Action: Marked Compound Undetected

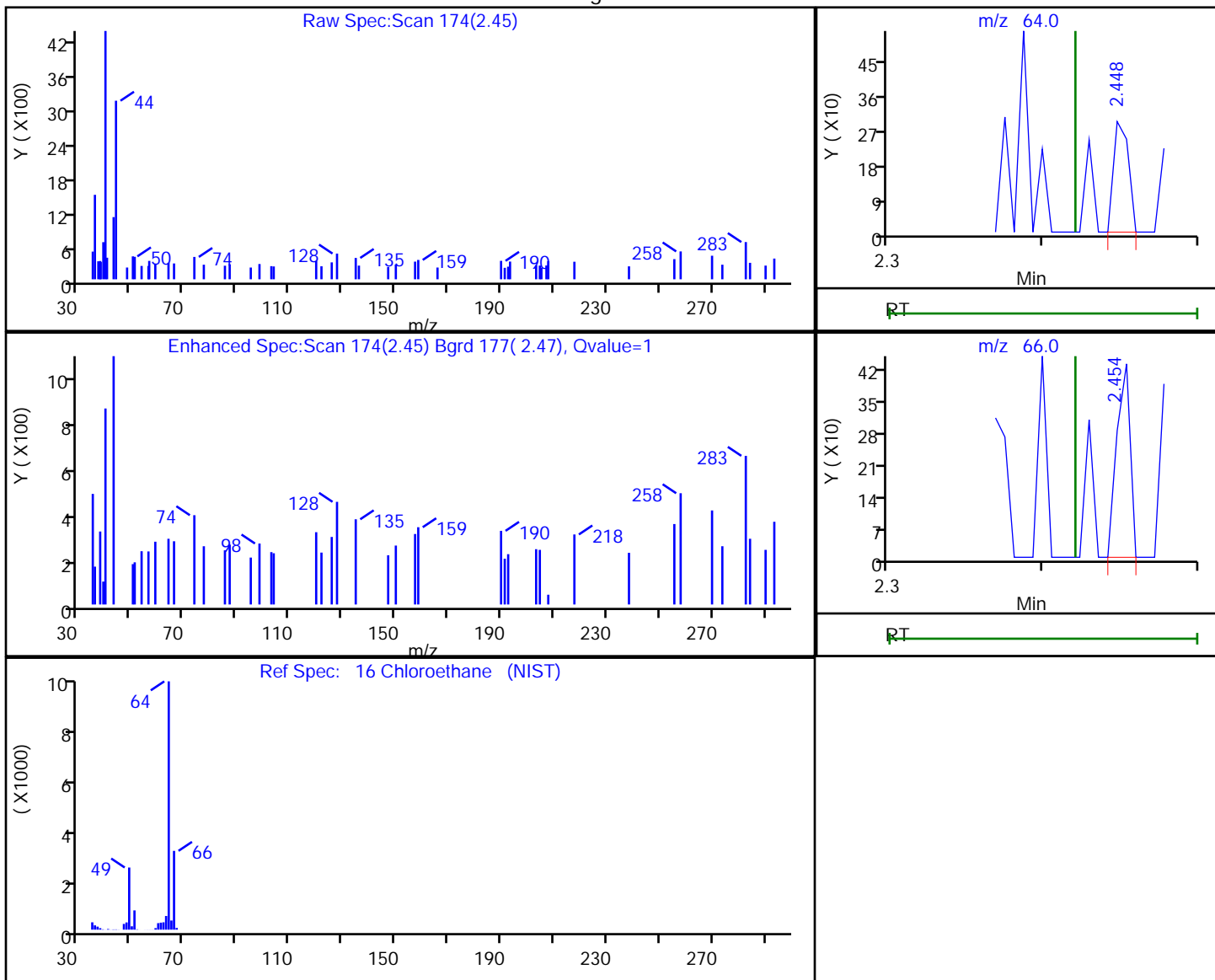
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 Injection Date: 25-Jan-2020 14:21:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-2 Lab Sample ID: 180-101459-2  
 Client ID: HD-COD-SW-8-0/1-0  
 Operator ID: 433269 ALS Bottle#: 3 Worklist Smp#: 9  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
 Column: DB-624 (0.18 mm) Detector: MS SCAN

16 Chloroethane, CAS: 75-00-3

Processing Results



RT	Mass	Response	Amount
2.45	64.00	195	0.078396
2.45	66.00	257	

Reviewer: bowieh, 25-Jan-2020 15:16:30

Audit Action: Marked Compound Undetected

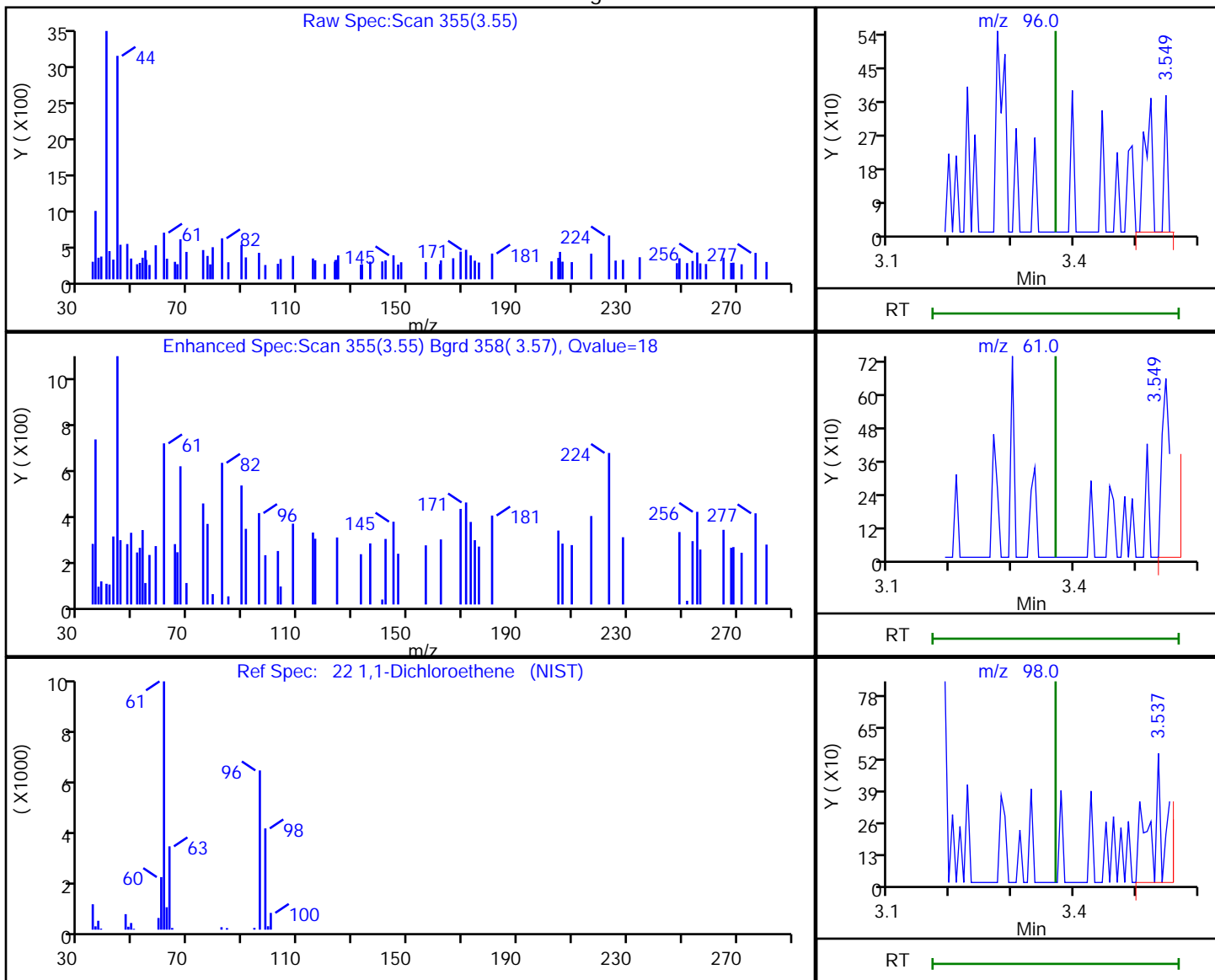
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 Lims ID: 180-101459-B-2 Lab Sample ID: 180-101459-2  
 Client ID: HD-COD-SW-8-0/1-0  
 Operator ID: 433269 ALS Bottle#: 3 Worklist Smp#: 9  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
 Column: DB-624 (0.18 mm) Detector: MS SCAN

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

Processing Results



RT	Mass	Response	Amount
3.55	96.00	441	0.176830
3.55	61.00	623	
3.54	98.00	760	

Reviewer: bowieh, 25-Jan-2020 15:16:31

Audit Action: Marked Compound Undetected

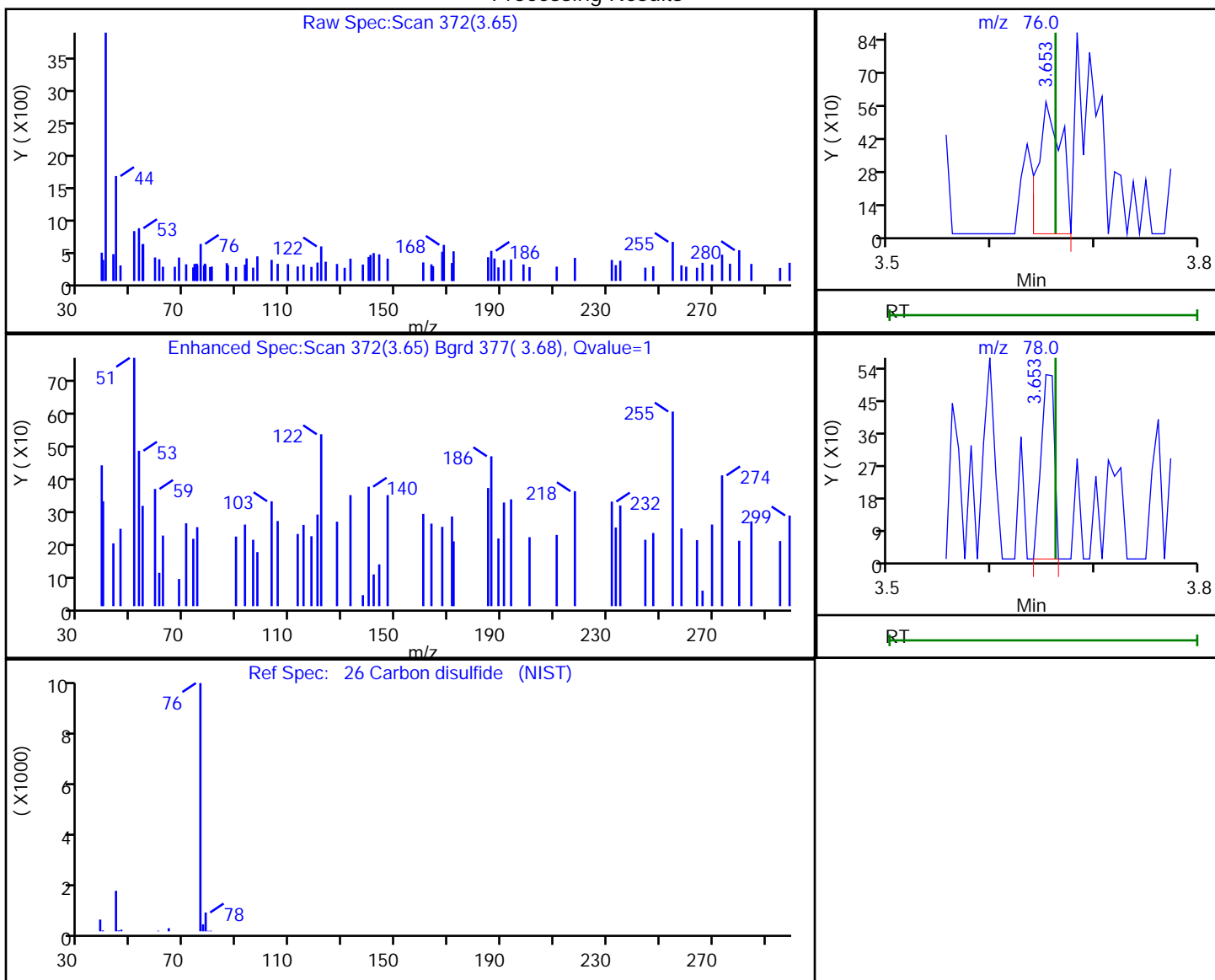
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 Injection Date: 25-Jan-2020 14:21:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-2 Lab Sample ID: 180-101459-2  
 Client ID: HD-COD-SW-8-0/1-0  
 Operator ID: 433269 ALS Bottle#: 3 Worklist Smp#: 9  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: 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
3.65	76.00	880	0.156853
3.65	78.00	459	

Reviewer: bowieh, 25-Jan-2020 15:16:36

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

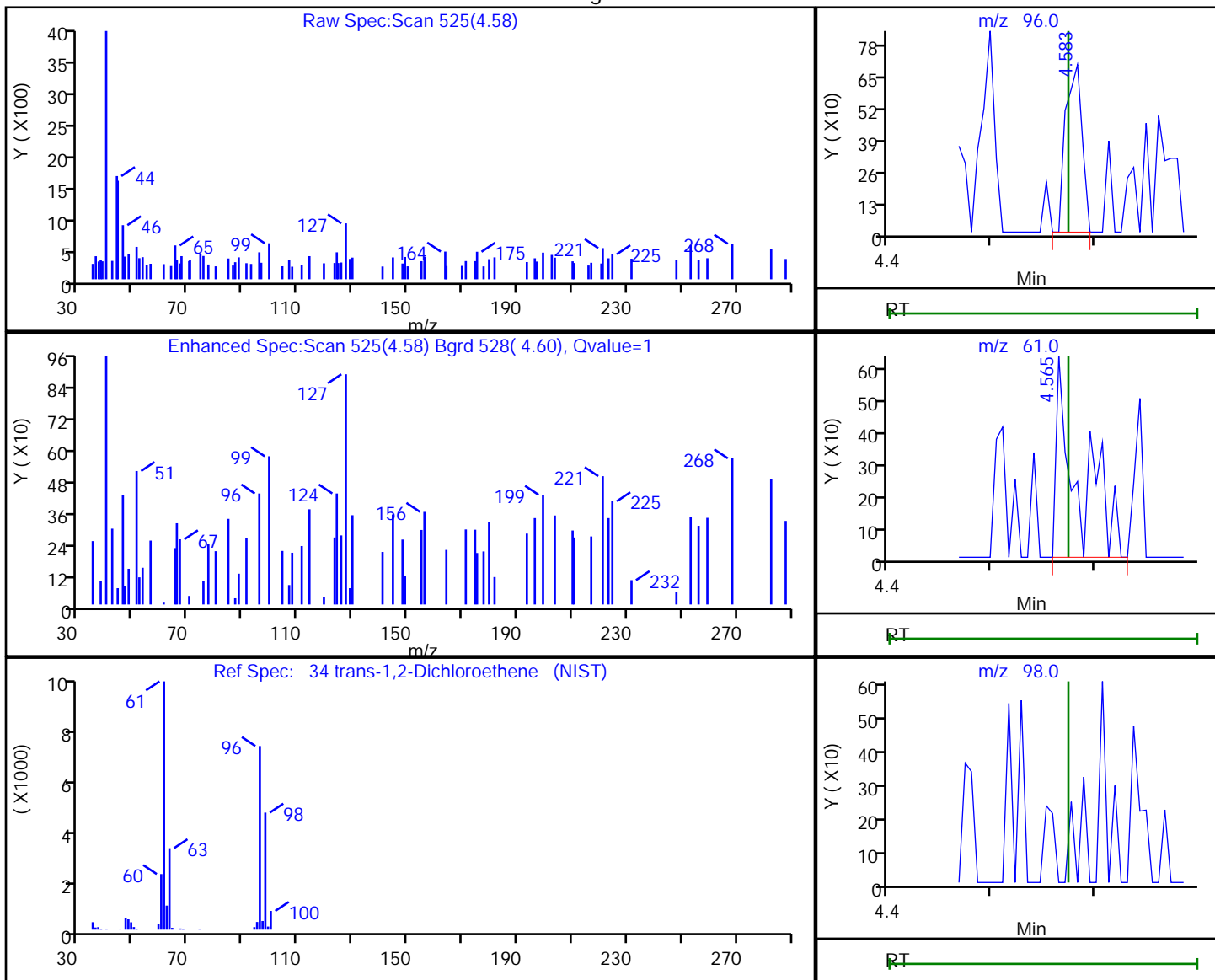


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 Client ID: HD-COD-SW-8-0/1-0  
 Operator ID: 433269 ALS Bottle#: 3 Worklist Smp#: 9  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
 Column: DB-624 (0.18 mm) Detector: MS SCAN

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

Processing Results



RT	Mass	Response	Amount
4.58	96.00	765	0.269838
4.57	61.00	968	
4.57	98.00	0	

Reviewer: bowieh, 25-Jan-2020 15:16:39

Audit Action: Marked Compound Undetected

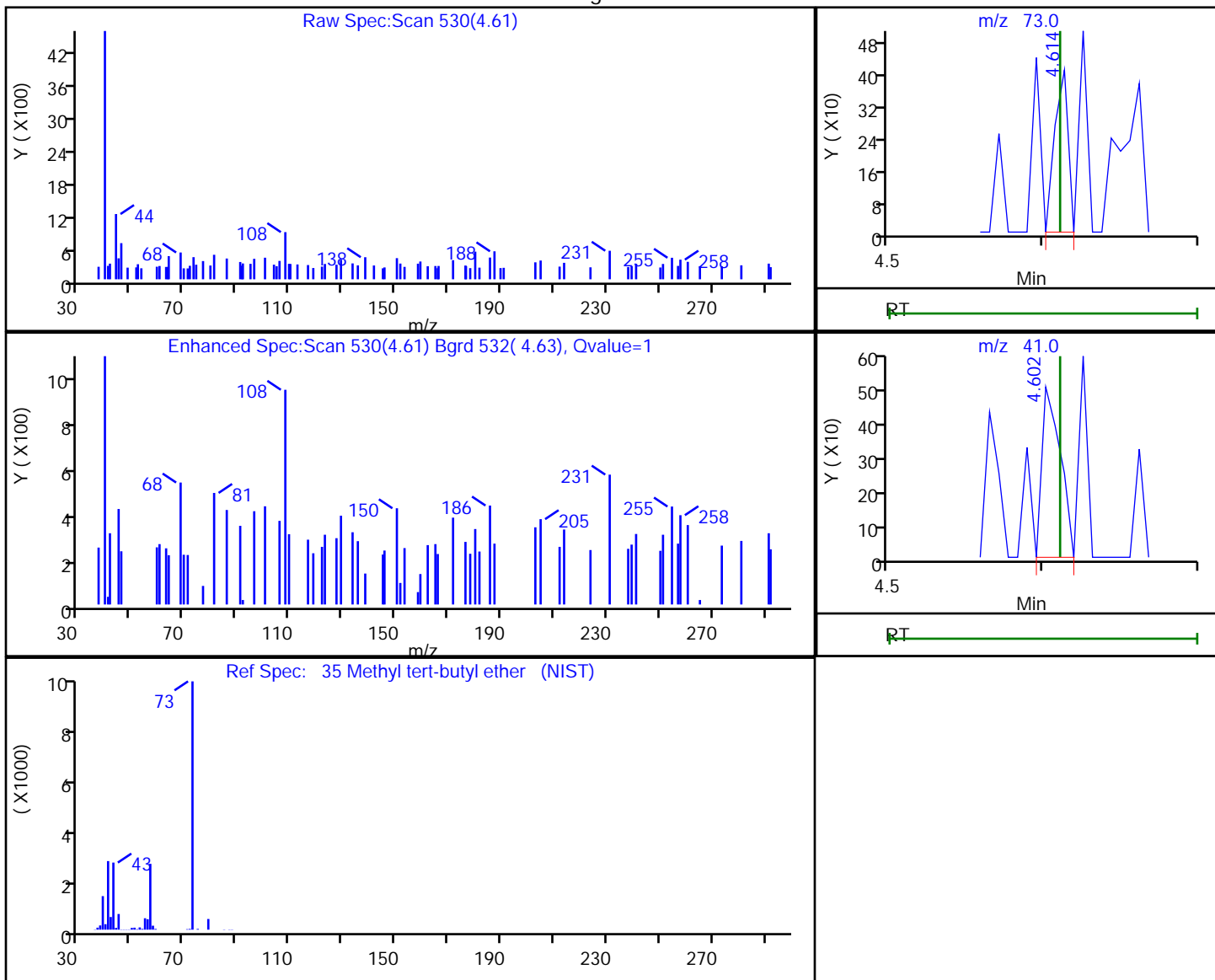
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 Client ID: HD-COD-SW-8-0/1-0  
 Operator ID: 433269 ALS Bottle#: 3 Worklist Smp#: 9  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
 Column: DB-624 (0.18 mm) Detector: MS SCAN

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

Processing Results



RT	Mass	Response	Amount
4.61	73.00	247	0.044973
4.60	41.00	415	

Reviewer: bowieh, 25-Jan-2020 15:16:40

Audit Action: Marked Compound Undetected

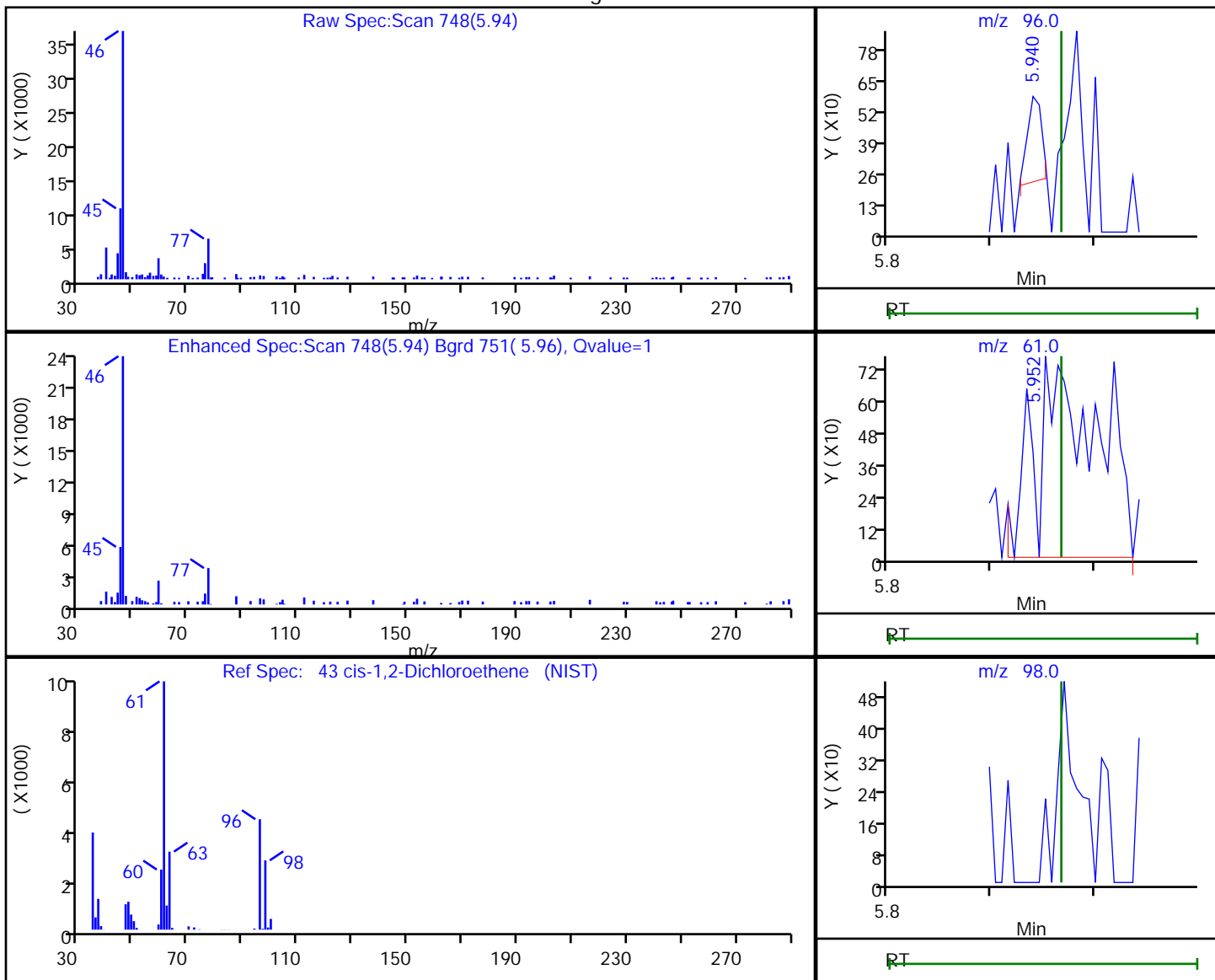
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 Client ID: HD-COD-SW-8-0/1-0  
 Operator ID: 433269 ALS Bottle#: 3 Worklist Smp#: 9  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
 Column: DB-624 (0.18 mm) Detector: MS SCAN

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

Processing Results



RT	Mass	Response	Amount
5.94	96.00	355	0.116297
5.95	61.00	3214	
5.97	98.00	0	

Reviewer: bowieh, 25-Jan-2020 15:16:42

Audit Action: Marked Compound Undetected

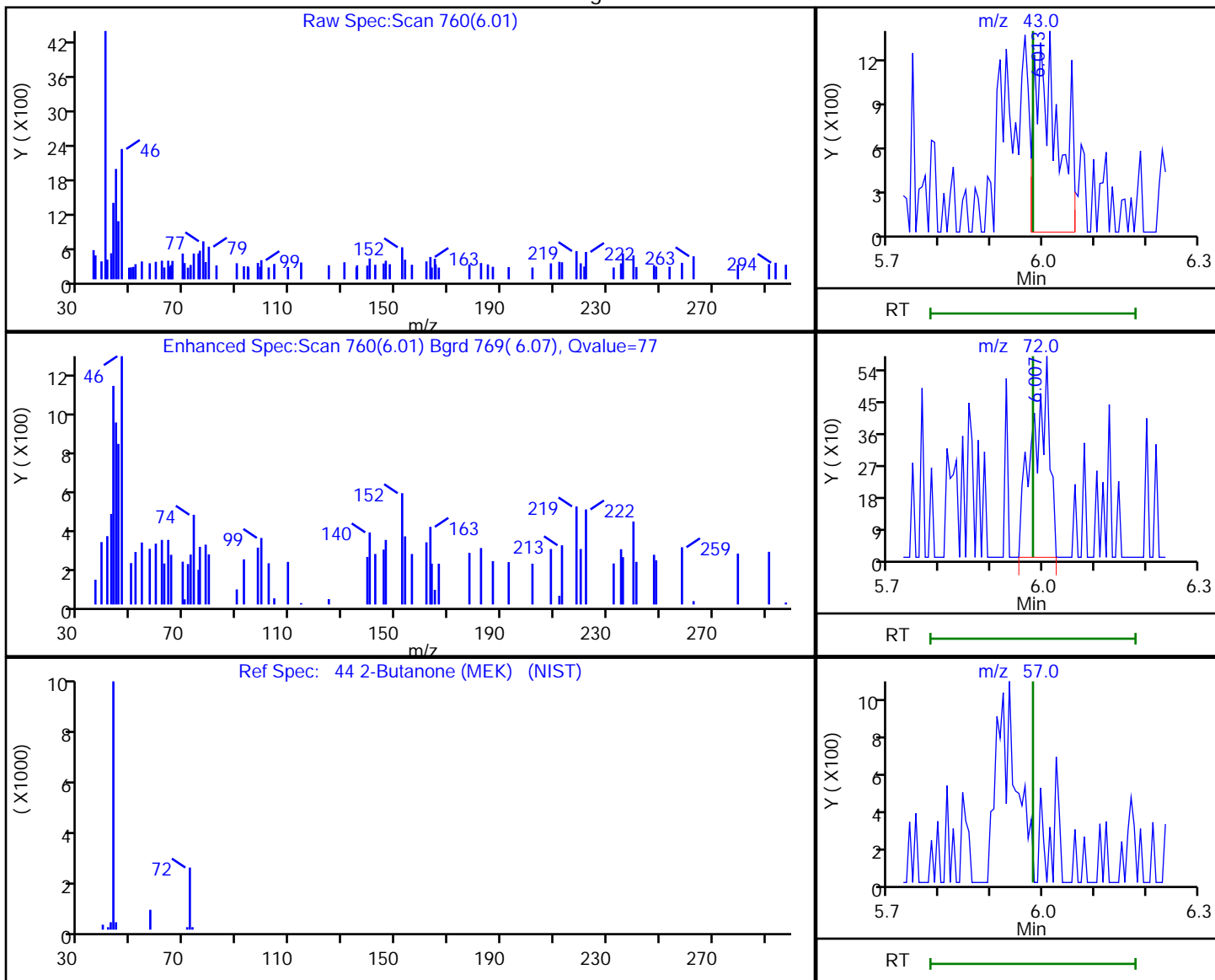
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 Client ID: HD-COD-SW-8-0/1-0  
 Operator ID: 433269 ALS Bottle#: 3 Worklist Smp#: 9  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
 Column: DB-624 (0.18 mm) Detector: MS SCAN

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

Processing Results



RT	Mass	Response	Amount
6.01	43.00	4058	2.538037
6.01	72.00	1286	
5.98	57.00	0	

Reviewer: bowieh, 25-Jan-2020 15:16:44

Audit Action: Marked Compound Undetected

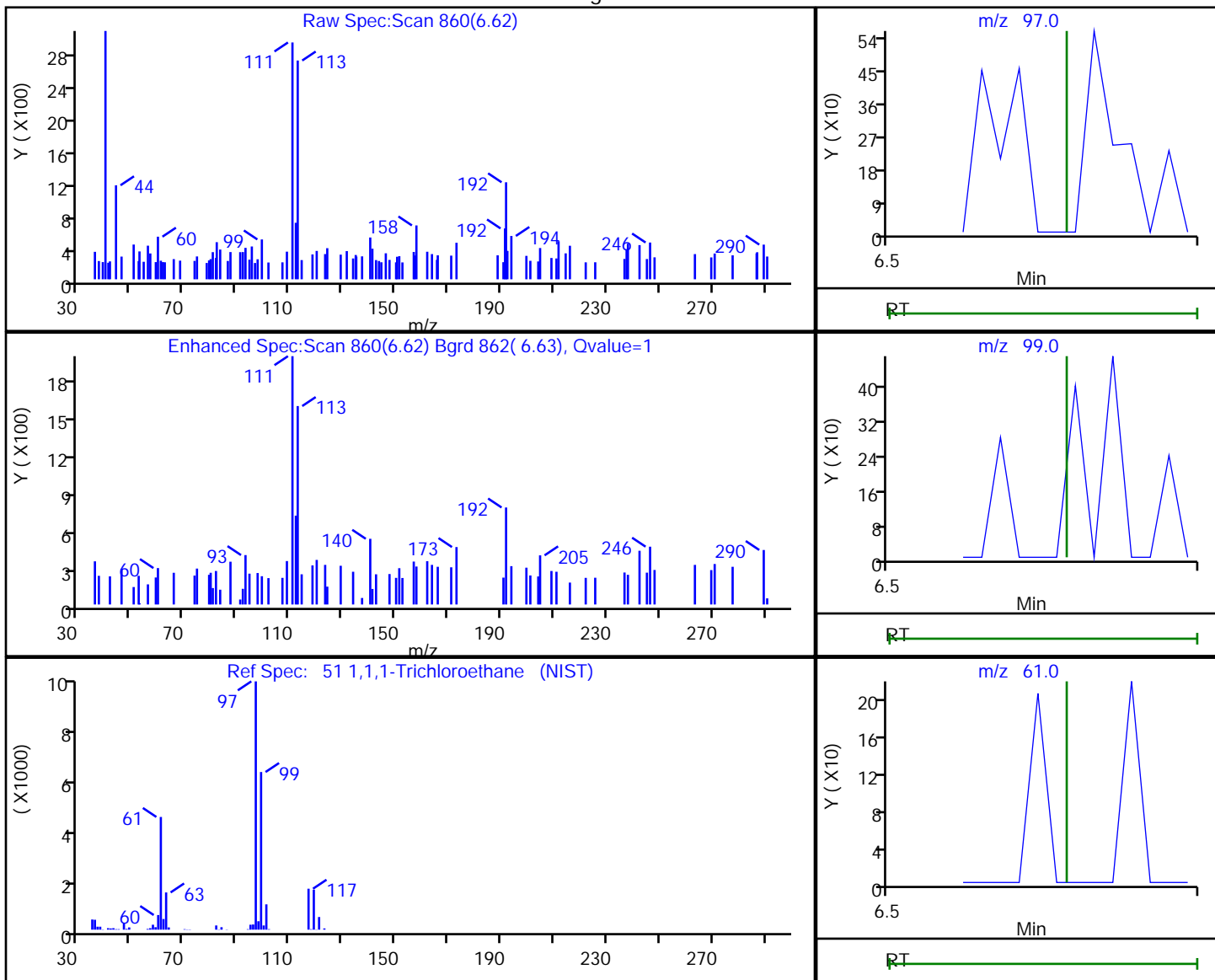
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 Client ID: HD-COD-SW-8-0/1-0  
 Operator ID: 433269 ALS Bottle#: 3 Worklist Smp#: 9  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
 Column: DB-624 (0.18 mm) Detector: MS SCAN

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

Processing Results



RT	Mass	Response	Amount
6.62	97.00	73	0.020775
6.62	99.00	612	
6.62	61.00	84	

Reviewer: bowieh, 25-Jan-2020 15:16:48

Audit Action: Marked Compound Undetected

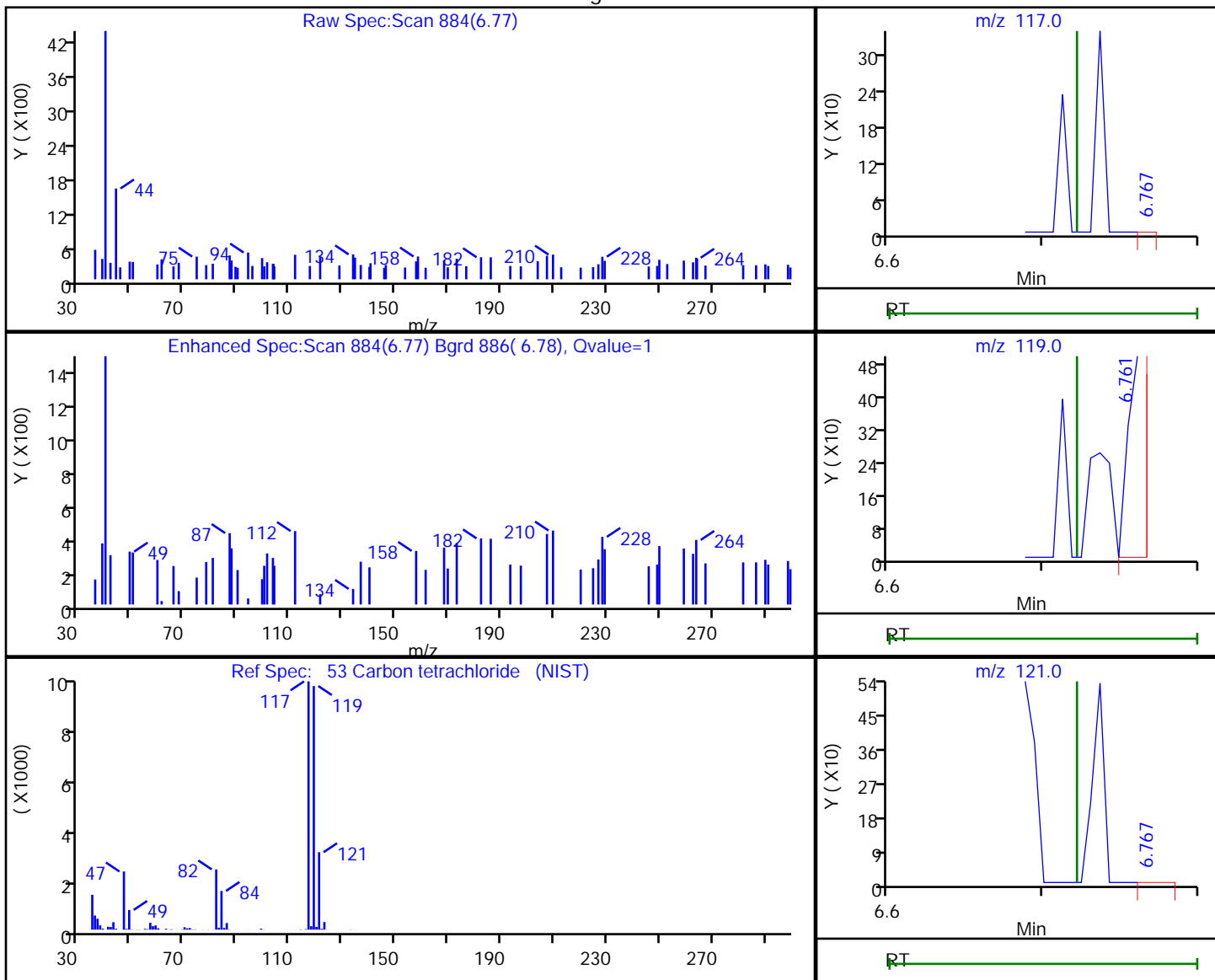
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Lims ID: 180-101459-B-2 Lab Sample ID: 180-101459-2  
 Client ID: HD-COD-SW-8-0/1-0  
 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

53 Carbon tetrachloride, CAS: 56-23-5

Processing Results



RT	Mass	Response	Amount
6.77	117.00	85	0.028764
6.76	119.00	300	
6.77	121.00	261	

Reviewer: bowieh, 25-Jan-2020 15:16:49

Audit Action: Marked Compound Undetected

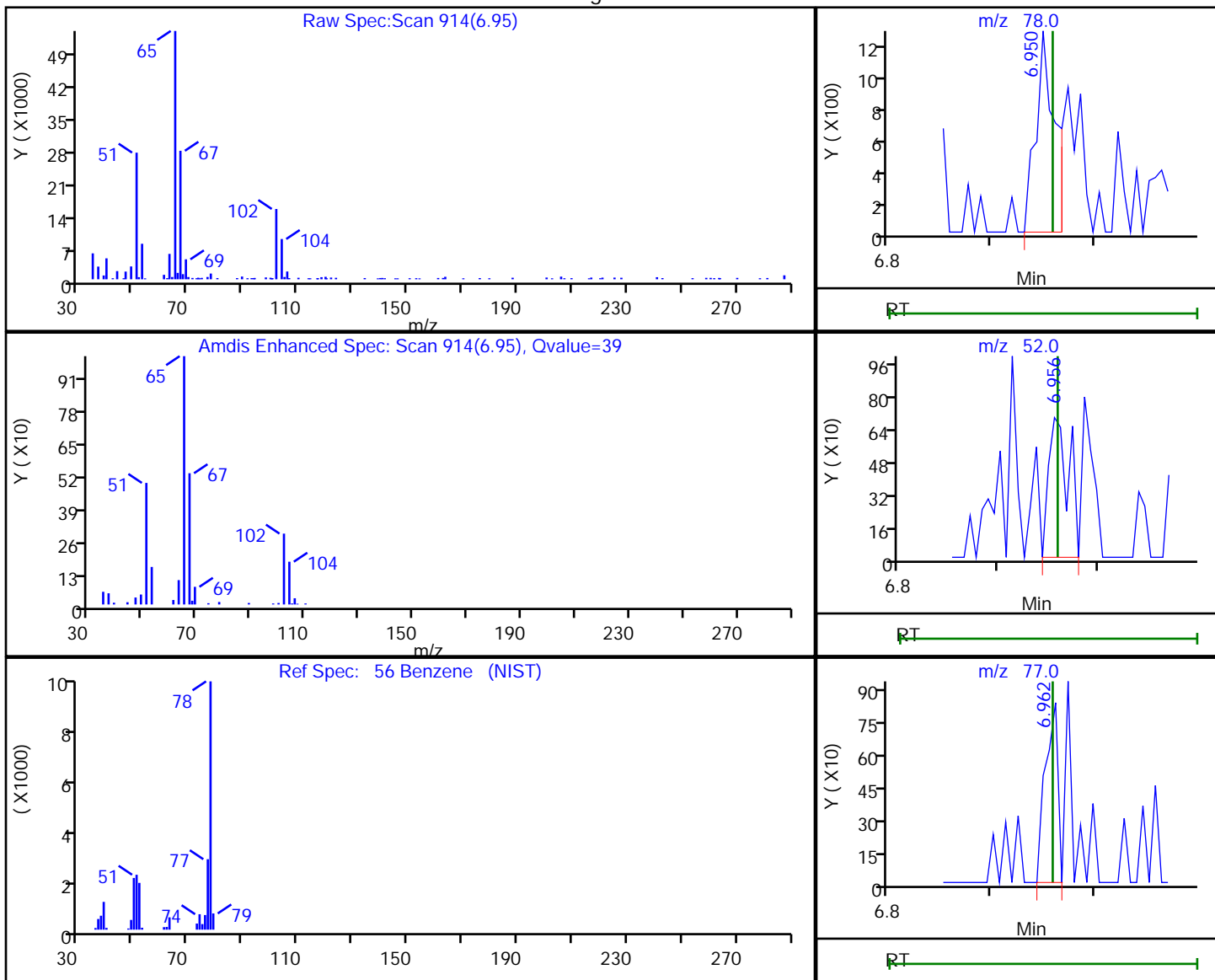
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 Lims ID: 180-101459-B-2 Lab Sample ID: 180-101459-2  
 Client ID: HD-COD-SW-8-0/1-0  
 Operator ID: 433269 ALS Bottle#: 3 Worklist Smp#: 9  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
 Column: DB-624 (0.18 mm) Detector: MS SCAN

56 Benzene, CAS: 71-43-2

Processing Results



RT	Mass	Response	Amount
6.95	78.00	1599	0.142063
6.96	52.00	970	
6.96	77.00	710	

Reviewer: bowieh, 25-Jan-2020 15:16:51

Audit Action: Marked Compound Undetected

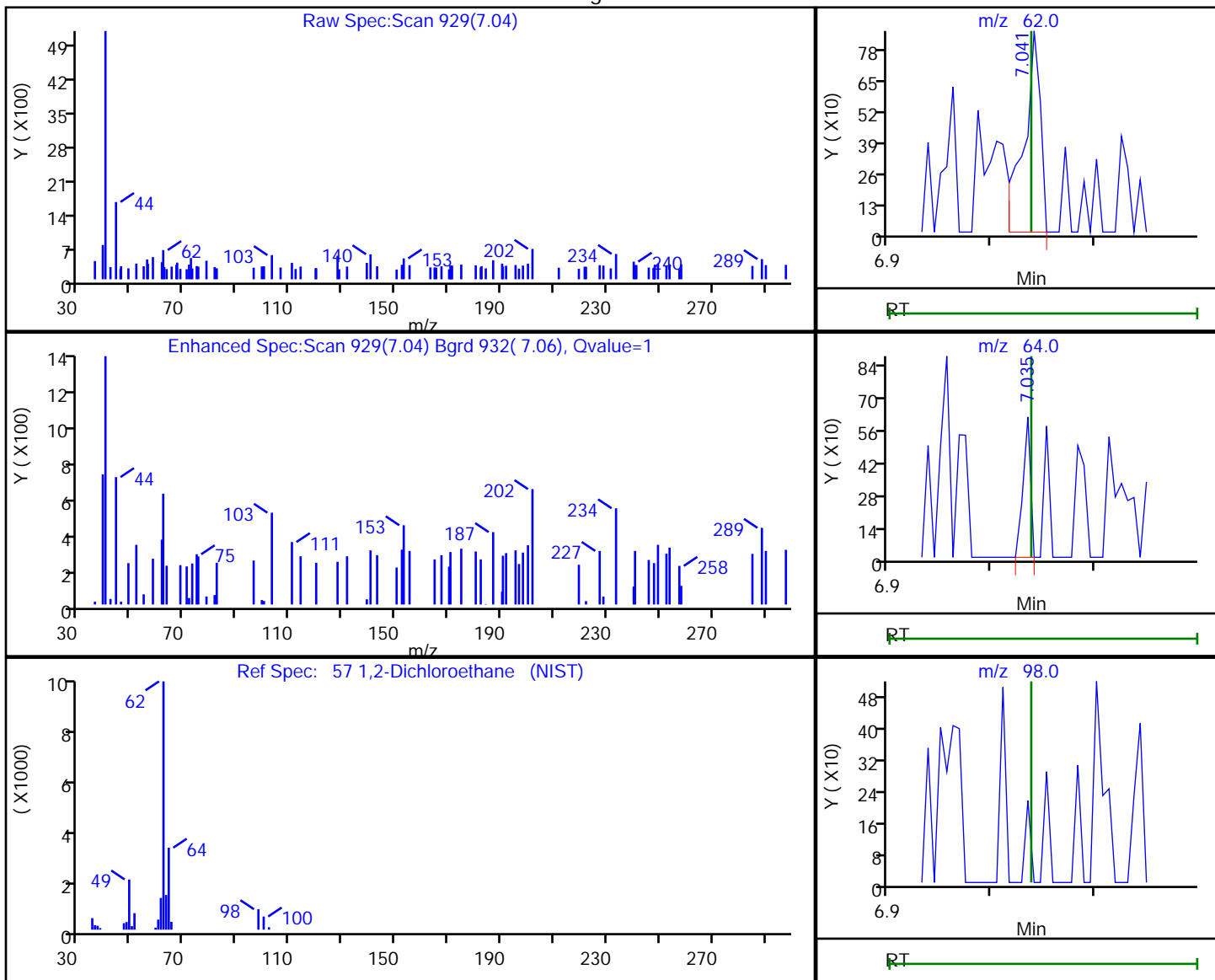
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 Lims ID: 180-101459-B-2 Lab Sample ID: 180-101459-2  
 Client ID: HD-COD-SW-8-0/1-0  
 Operator ID: 433269 ALS Bottle#: 3 Worklist Smp#: 9  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
 Column: DB-624 (0.18 mm) Detector: MS SCAN

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

Processing Results



RT	Mass	Response	Amount
7.04	62.00	957	0.308707
7.03	64.00	310	
7.04	98.00	0	

Reviewer: bowieh, 25-Jan-2020 15:16:52

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

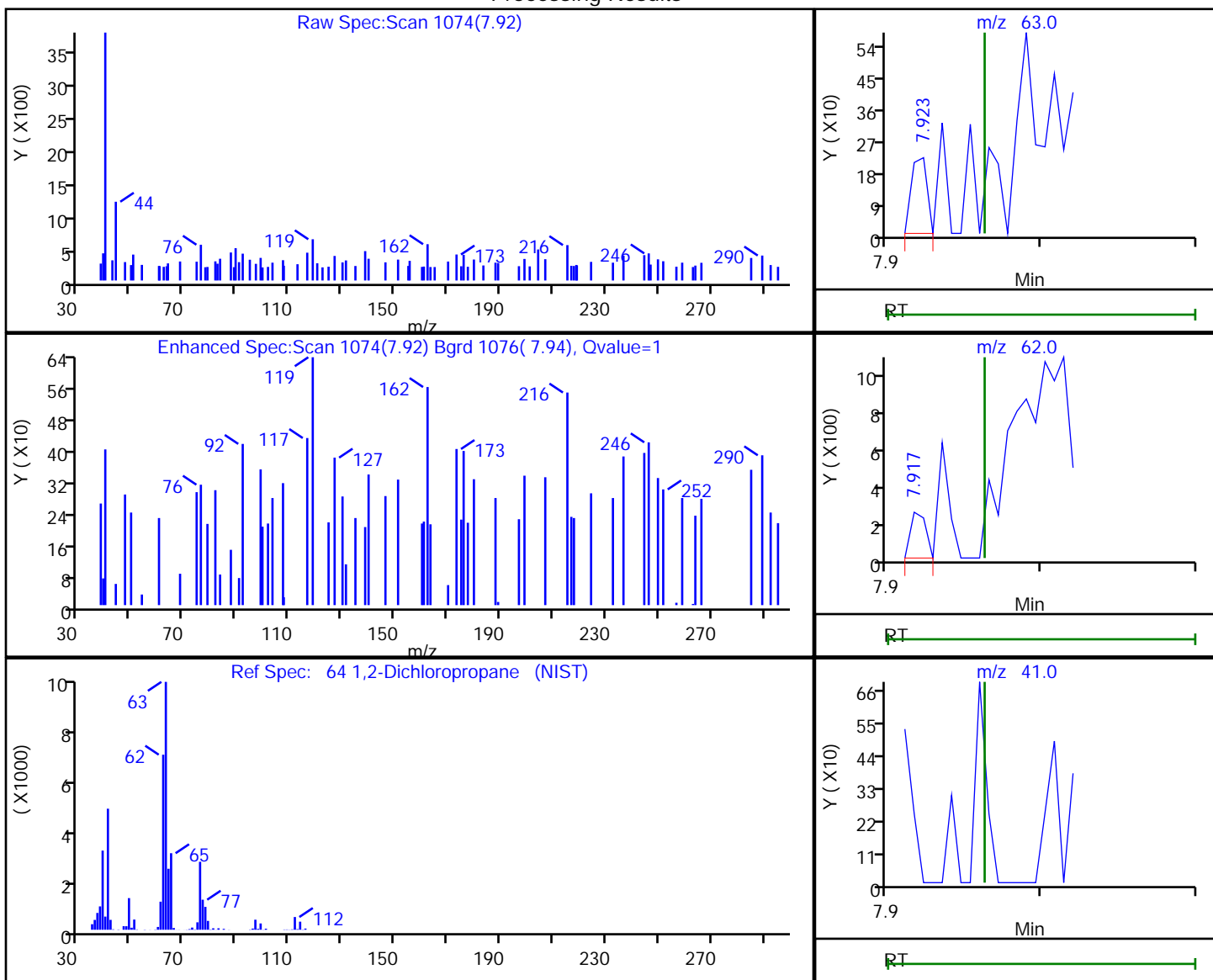


Eurofins TestAmerica, Pittsburgh

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 Injection Date: 25-Jan-2020 14:21:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-2 Lab Sample ID: 180-101459-2  
 Client ID: HD-COD-SW-8-0/1-0  
 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
7.92	63.00	154	0.058448
7.92	62.00	164	
7.91	41.00	357	

Reviewer: bowieh, 25-Jan-2020 15:16:55

Audit Action: Marked Compound Undetected

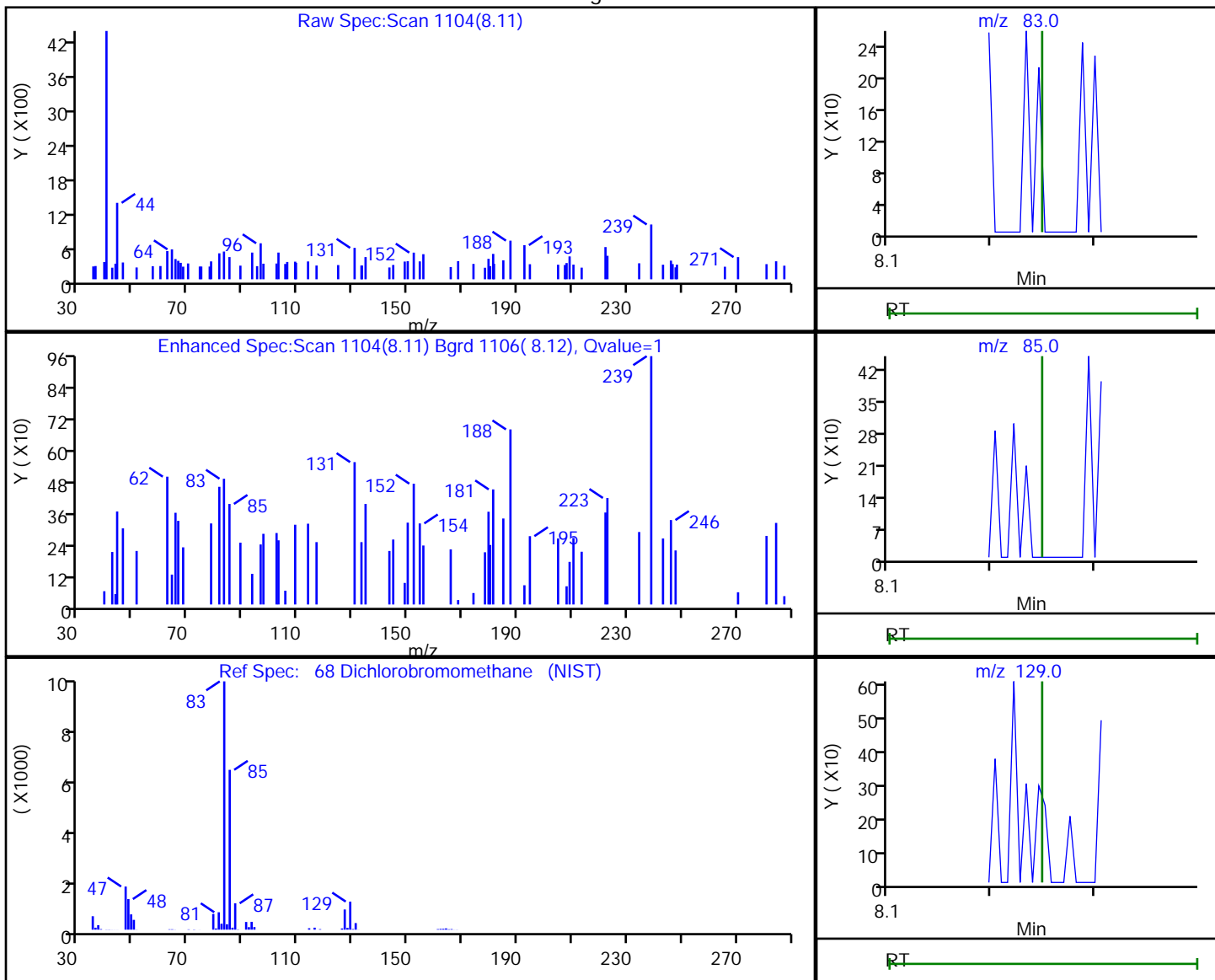
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Eurofins TestAmerica, Pittsburgh

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 Lims ID: 180-101459-B-2 Lab Sample ID: 180-101459-2  
 Client ID: HD-COD-SW-8-0/1-0  
 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

68 Dichlorobromomethane, CAS: 75-27-4

Processing Results



RT	Mass	Response	Amount
8.11	83.00	327	0.132771
8.11	85.00	237	
8.09	129.00	176	

Reviewer: bowieh, 25-Jan-2020 15:16:56

Audit Action: Marked Compound Undetected

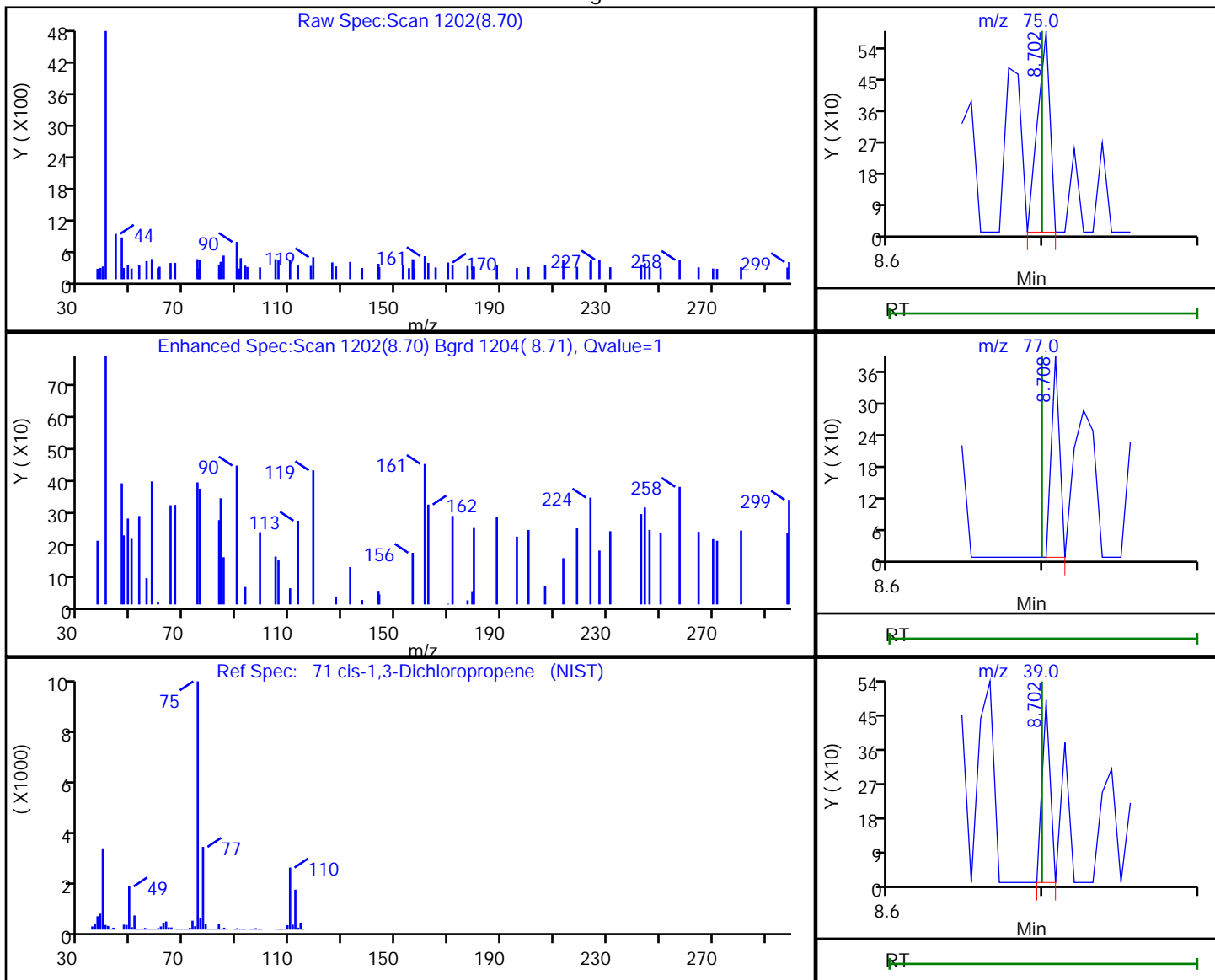
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 Lims ID: 180-101459-B-2 Lab Sample ID: 180-101459-2  
 Client ID: HD-COD-SW-8-0/1-0  
 Operator ID: 433269 ALS Bottle#: 3 Worklist Smp#: 9  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
 Column: DB-624 (0.18 mm) Detector: MS SCAN

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

Processing Results



RT	Mass	Response	Amount
8.70	75.00	328	0.102984
8.71	77.00	143	
8.70	39.00	176	

Reviewer: bowieh, 25-Jan-2020 15:16:57

Audit Action: Marked Compound Undetected

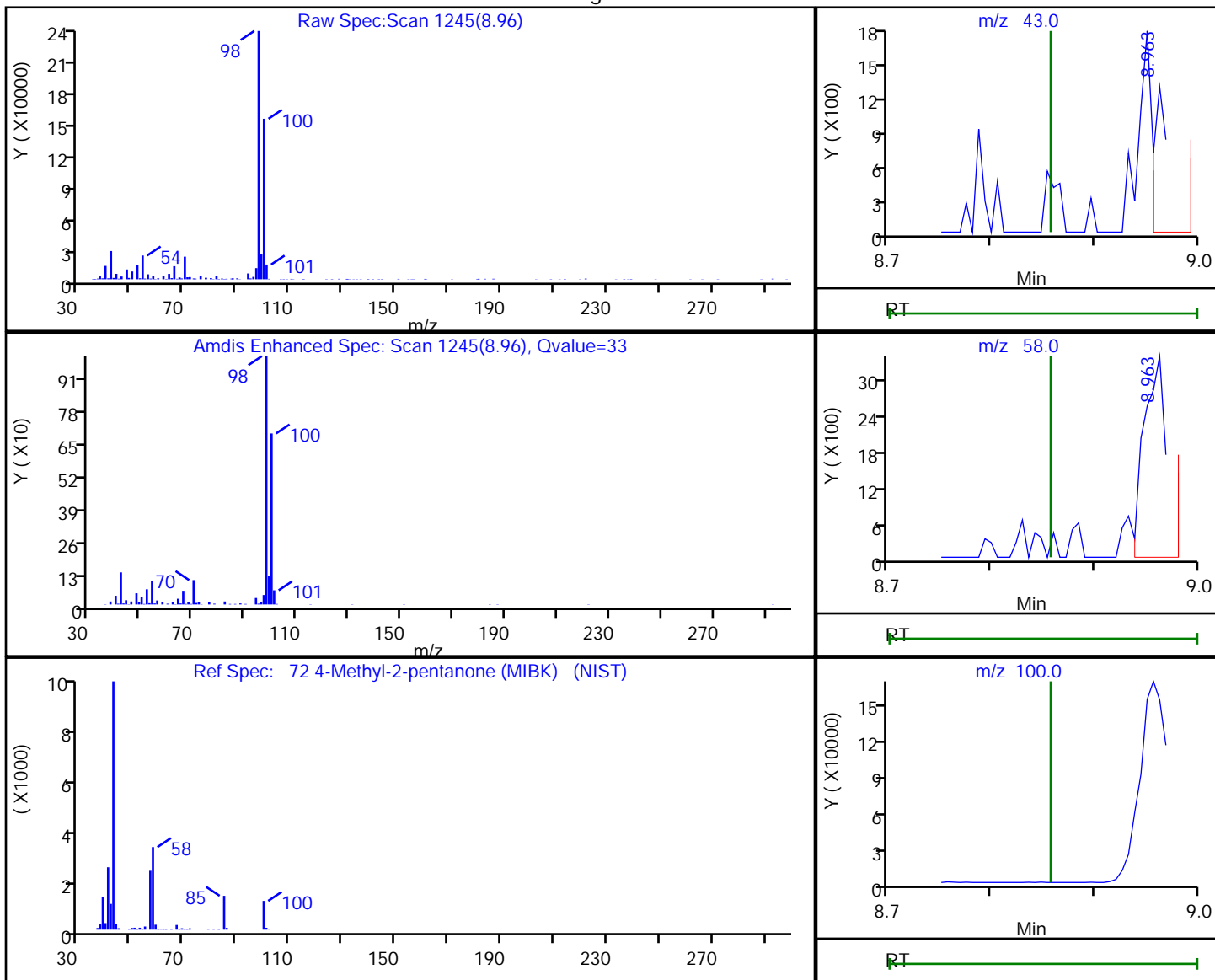
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 Lims ID: 180-101459-B-2 Lab Sample ID: 180-101459-2  
 Client ID: HD-COD-SW-8-0/1-0  
 Operator ID: 433269 ALS Bottle#: 3 Worklist Smp#: 9  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
 Column: DB-624 (0.18 mm) Detector: MS SCAN

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

Processing Results



RT	Mass	Response	Amount
8.96	43.00	1778	0.740998
8.96	58.00	5091	
8.96	100.00	332779	

Reviewer: bowieh, 25-Jan-2020 15:16:58

Audit Action: Marked Compound Undetected

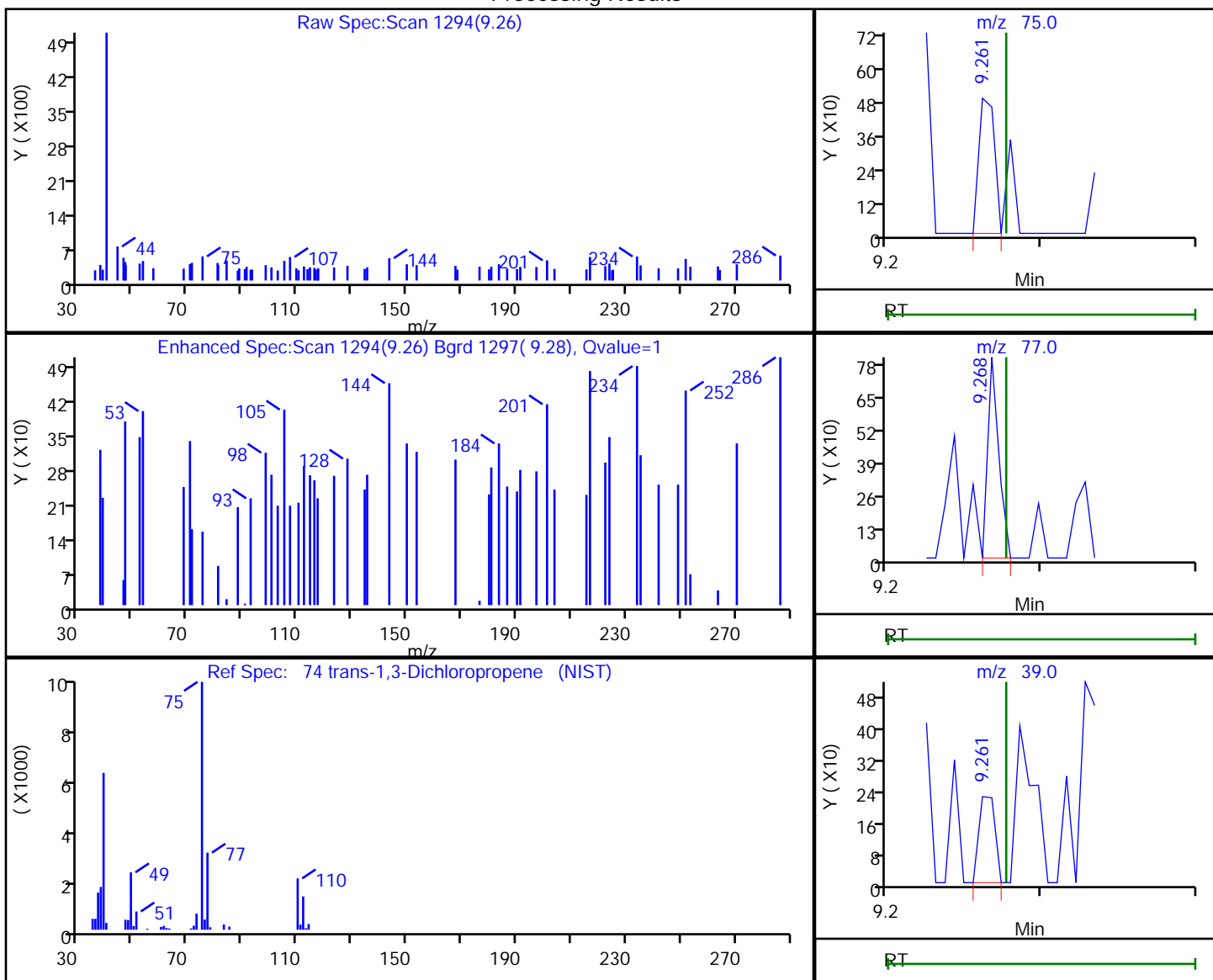
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 Lims ID: 180-101459-B-2 Lab Sample ID: 180-101459-2  
 Client ID: HD-COD-SW-8-0/1-0  
 Operator ID: 433269 ALS Bottle#: 3 Worklist Smp#: 9  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
 Column: DB-624 (0.18 mm) Detector: MS SCAN

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

Processing Results



RT	Mass	Response	Amount
9.26	75.00	346	0.124091
9.27	77.00	400	
9.26	39.00	159	

Reviewer: bowieh, 25-Jan-2020 15:17:03

Audit Action: Marked Compound Undetected

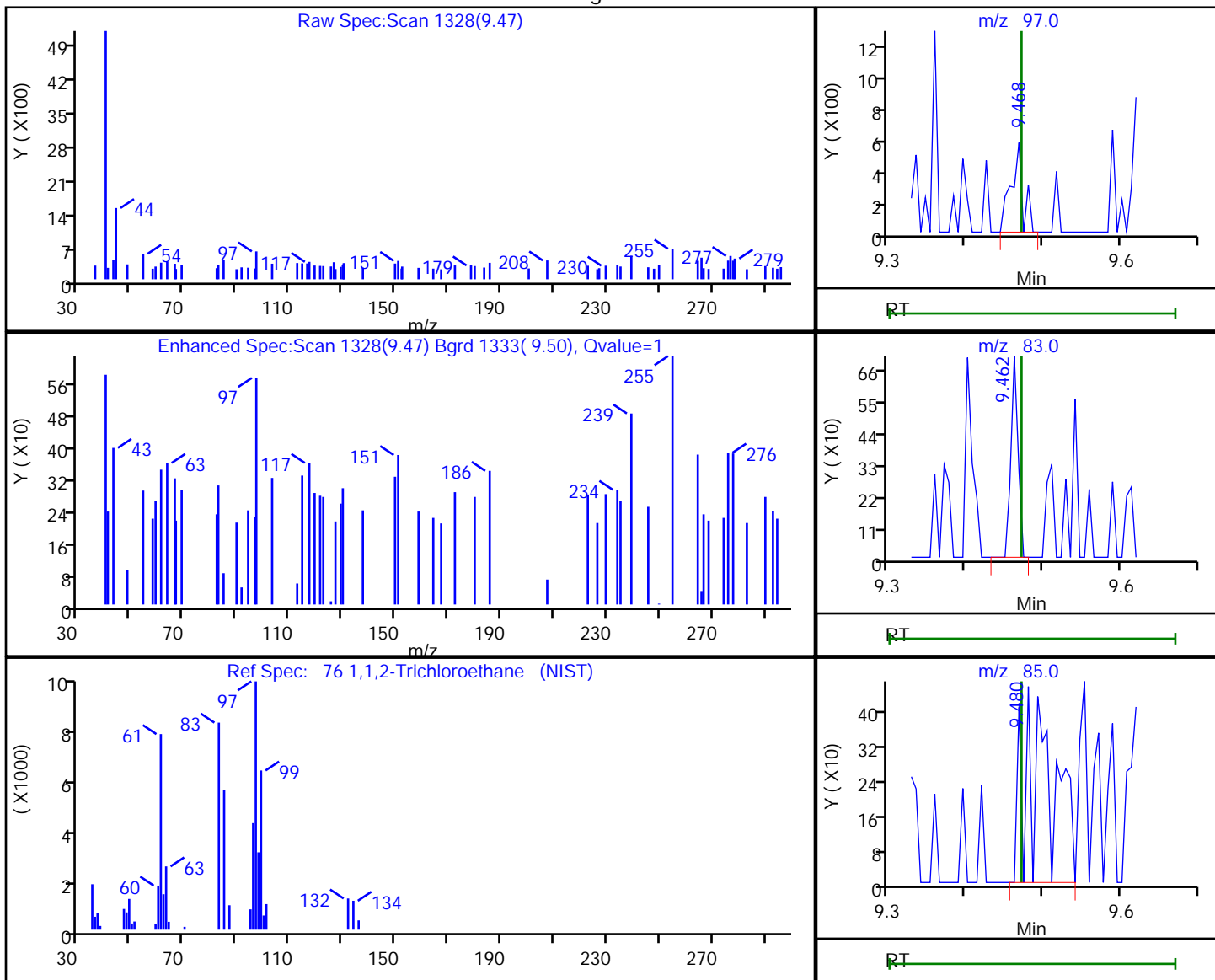
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 Lims ID: 180-101459-B-2 Lab Sample ID: 180-101459-2  
 Client ID: HD-COD-SW-8-0/1-0  
 Operator ID: 433269 ALS Bottle#: 3 Worklist Smp#: 9  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
 Column: DB-624 (0.18 mm) Detector: MS SCAN

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

Processing Results



RT	Mass	Response	Amount
9.47	97.00	615	0.265055
9.46	83.00	455	
9.48	85.00	1087	

Reviewer: bowieh, 25-Jan-2020 15:17:05

Audit Action: Marked Compound Undetected

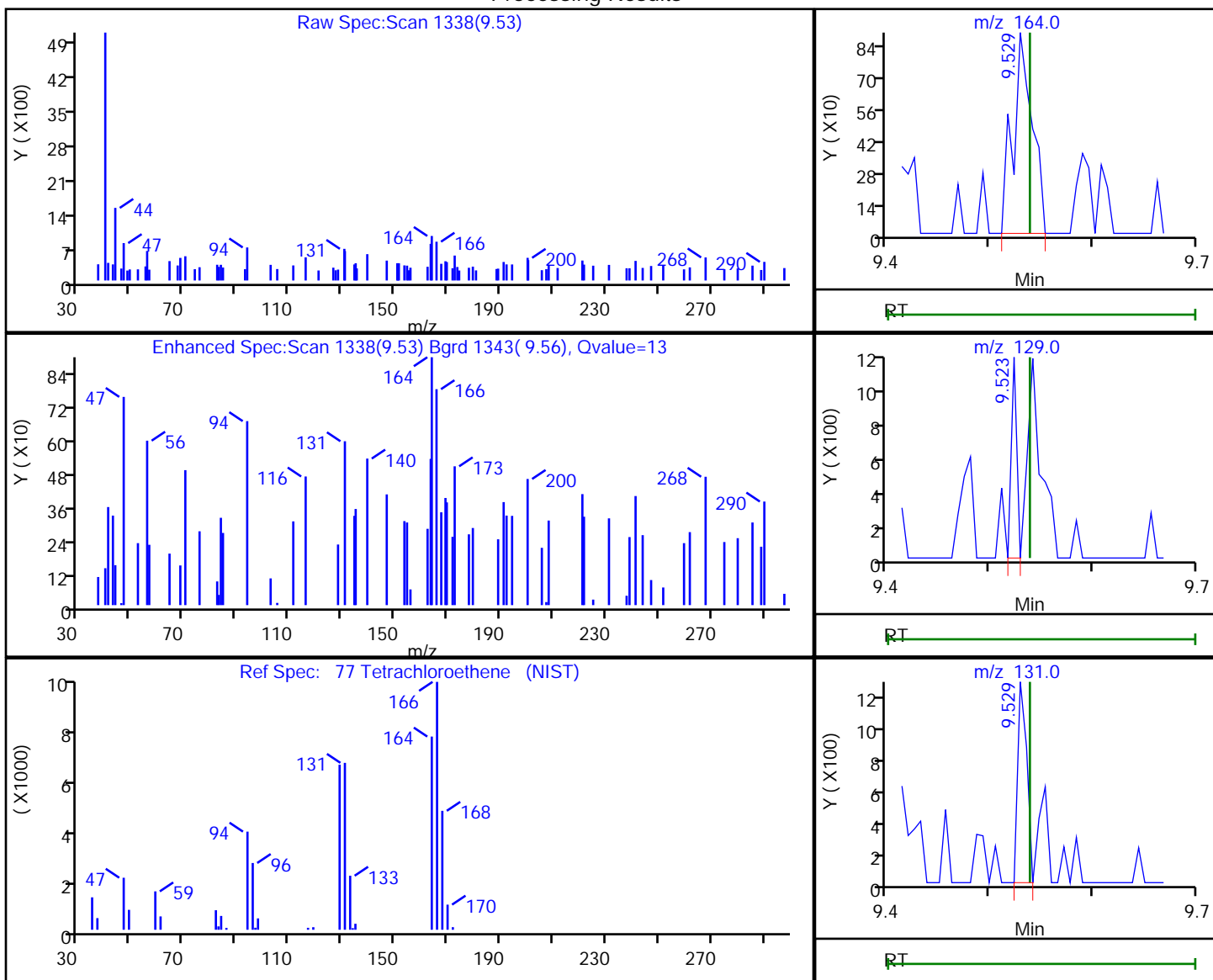
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Injection Date: 25-Jan-2020 14:21:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-2 Lab Sample ID: 180-101459-2  
Client ID: HD-COD-SW-8-0/1-0  
Operator ID: 433269 ALS Bottle#: 3 Worklist Smp#: 9  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
Column: DB-624 (0.18 mm) Detector: MS SCAN

77 Tetrachloroethene, CAS: 127-18-4

Processing Results



RT	Mass	Response	Amount
9.53	164.00	1172	0.371968
9.52	129.00	426	
9.53	131.00	755	

Reviewer: bowieh, 25-Jan-2020 15:17:06

Audit Action: Marked Compound Undetected

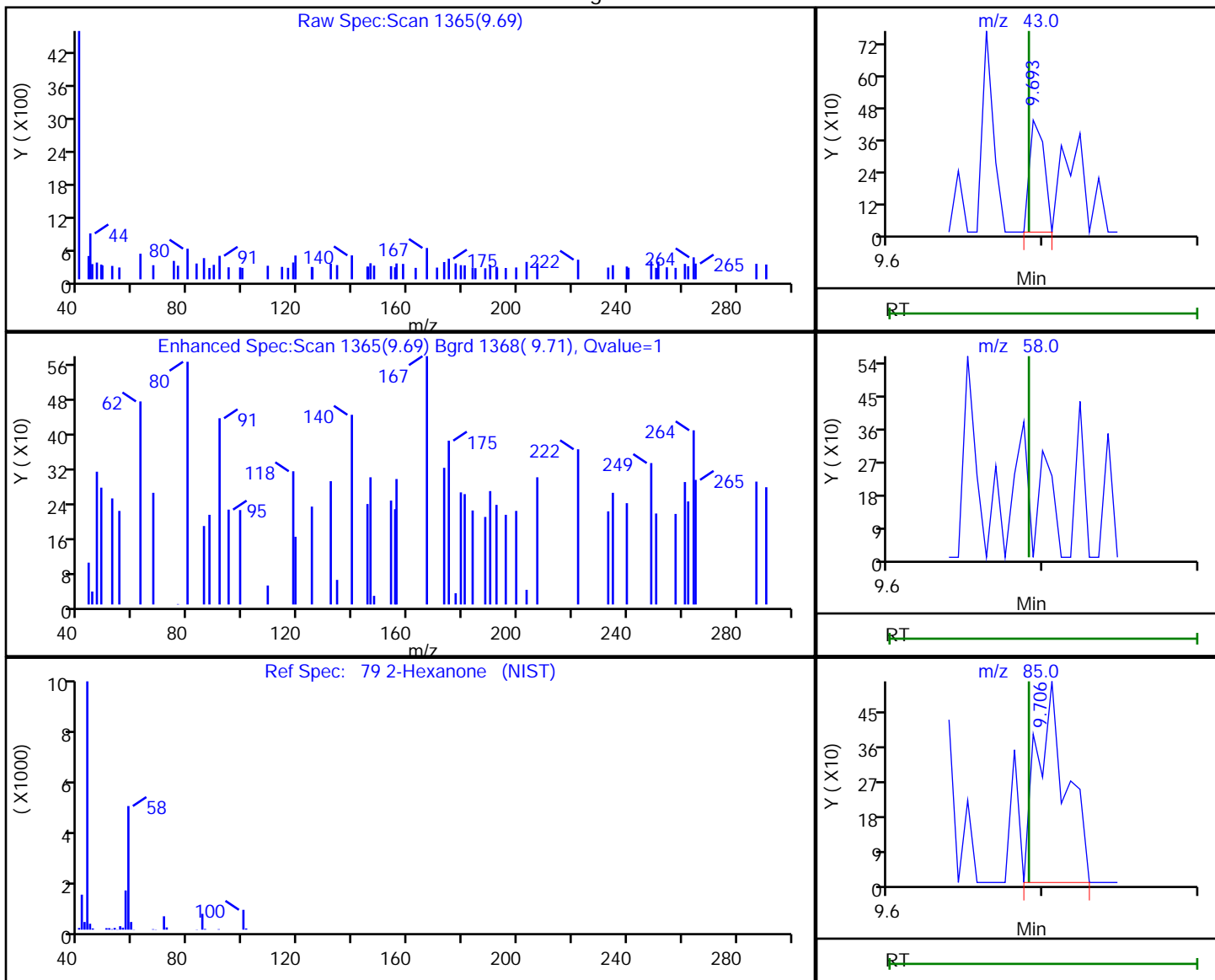
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 Operator ID: 433269 ALS Bottle#: 3 Worklist Smp#: 9  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
 Column: DB-624 (0.18 mm) Detector: MS SCAN

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

Processing Results



RT	Mass	Response	Amount
9.69	43.00	282	0.136435
9.69	58.00	0	
9.71	85.00	699	

Reviewer: bowieh, 25-Jan-2020 15:17:07

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

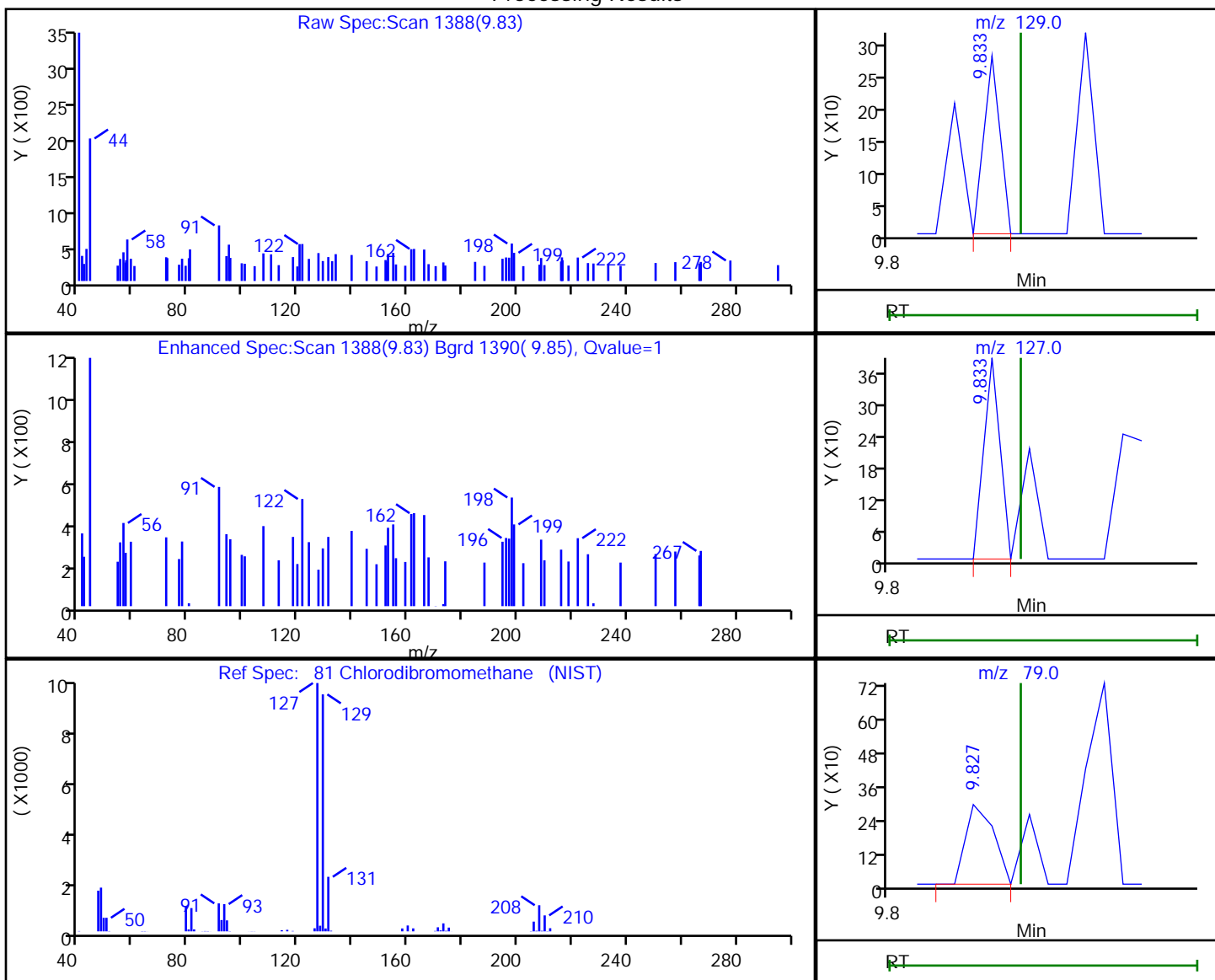


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 Operator ID: 433269 ALS Bottle#: 3 Worklist Smp#: 9  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
 Column: DB-624 (0.18 mm) Detector: MS SCAN

81 Chlorodibromomethane, CAS: 124-48-1

Processing Results



RT	Mass	Response	Amount
9.83	129.00	101	0.051540
9.83	127.00	142	
9.83	79.00	183	

Reviewer: bowieh, 25-Jan-2020 15:17:08

Audit Action: Marked Compound Undetected

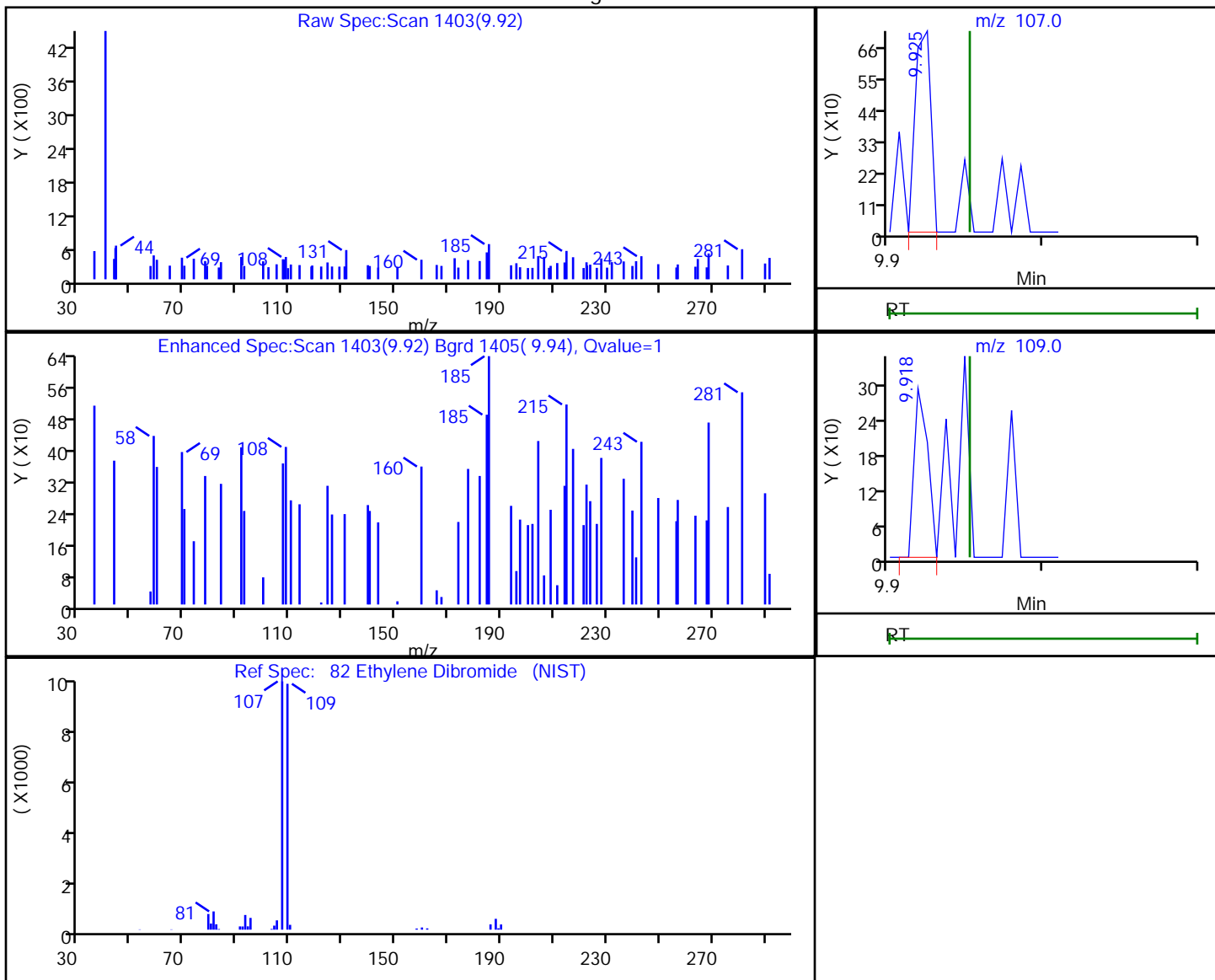
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012509.D  
Injection Date: 25-Jan-2020 14:21:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-2 Lab Sample ID: 180-101459-2  
Client ID: HD-COD-SW-8-0/1-0  
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
9.92	107.00	500	0.218350
9.92	109.00	180	

Reviewer: bowieh, 25-Jan-2020 15:17:11

Audit Action: Marked Compound Undetected

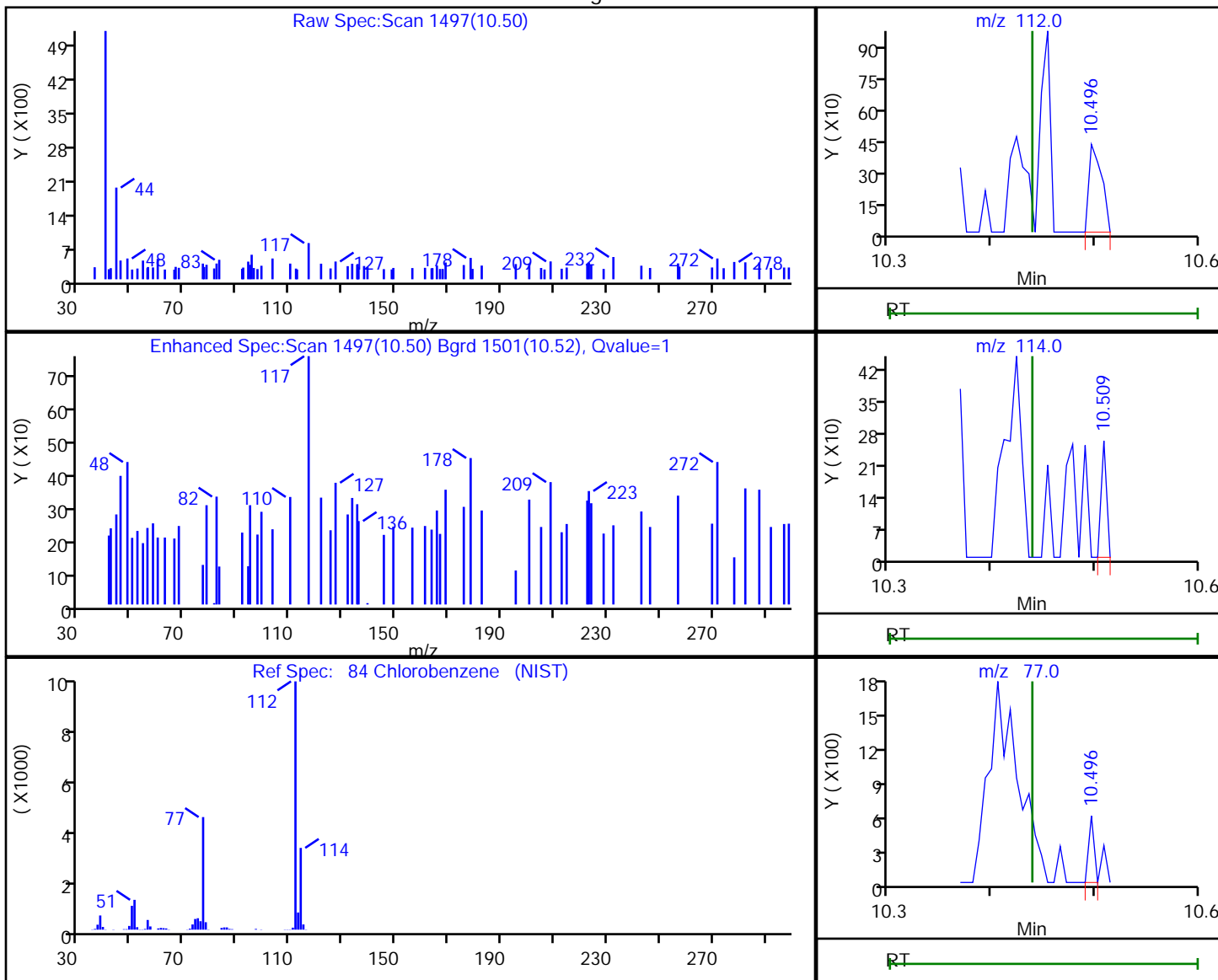
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012509.D  
 Injection Date: 25-Jan-2020 14:21:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-2 Lab Sample ID: 180-101459-2  
 Client ID: HD-COD-SW-8-0/1-0  
 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
10.50	112.00	364	0.042816
10.51	114.00	95	
10.50	77.00	212	

Reviewer: bowieh, 25-Jan-2020 15:17:12

Audit Action: Marked Compound Undetected

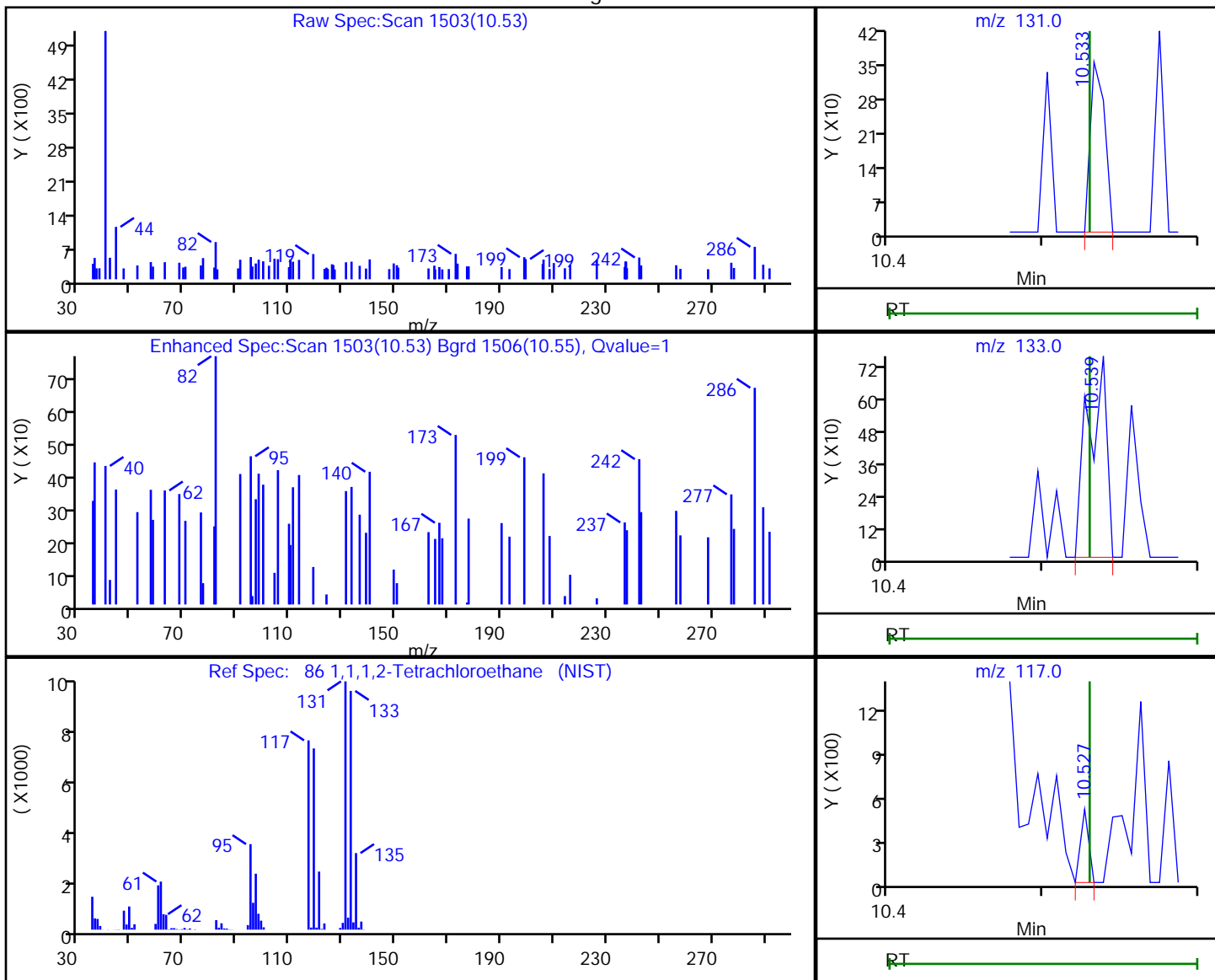
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012509.D  
 Injection Date: 25-Jan-2020 14:21:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-2 Lab Sample ID: 180-101459-2  
 Client ID: HD-COD-SW-8-0/1-0  
 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
10.53	131.00	227	0.090902
10.54	133.00	629	
10.53	117.00	185	

Reviewer: bowieh, 25-Jan-2020 15:17:13

Audit Action: Marked Compound Undetected

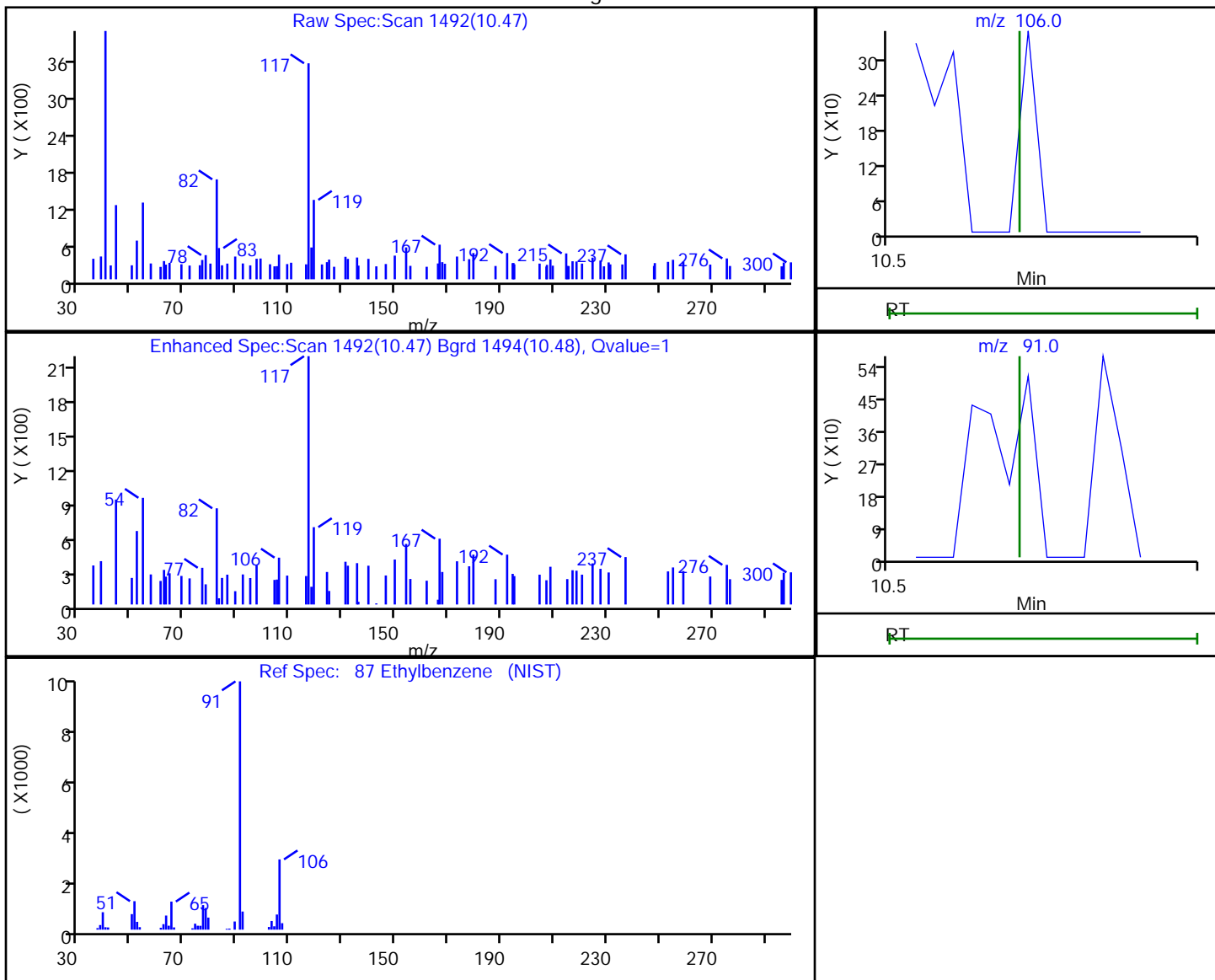
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012509.D  
Injection Date: 25-Jan-2020 14:21:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-2 Lab Sample ID: 180-101459-2  
Client ID: HD-COD-SW-8-0/1-0  
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
10.47	106.00	147	0.030215
10.47	91.00	76	

Reviewer: bowieh, 25-Jan-2020 15:17:15

Audit Action: Marked Compound Undetected

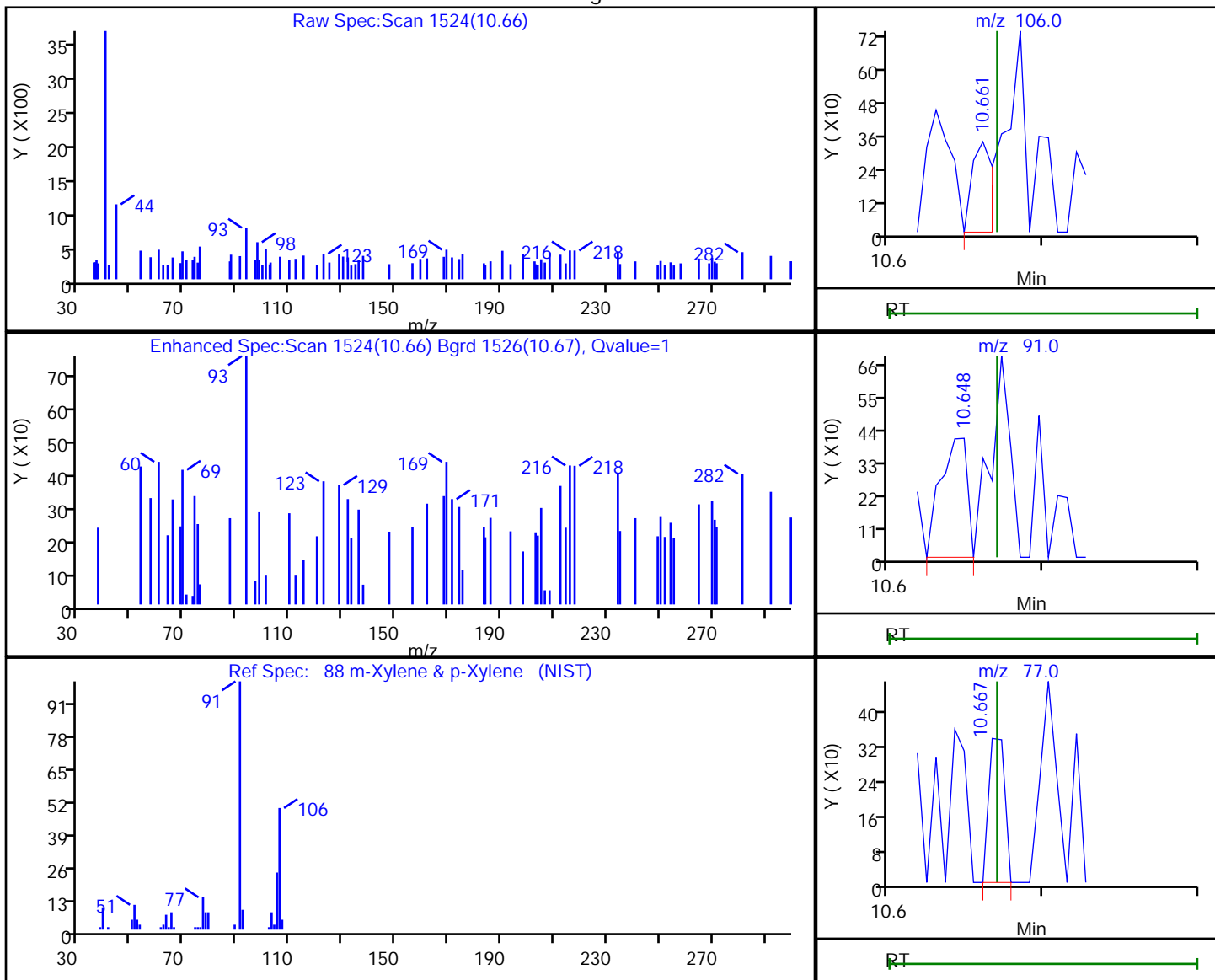
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012509.D  
 Injection Date: 25-Jan-2020 14:21:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-2 Lab Sample ID: 180-101459-2  
 Client ID: HD-COD-SW-8-0/1-0  
 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
10.66	106.00	303	0.051955
10.65	91.00	490	
10.67	77.00	242	

Reviewer: bowieh, 25-Jan-2020 15:17:16

Audit Action: Marked Compound Undetected

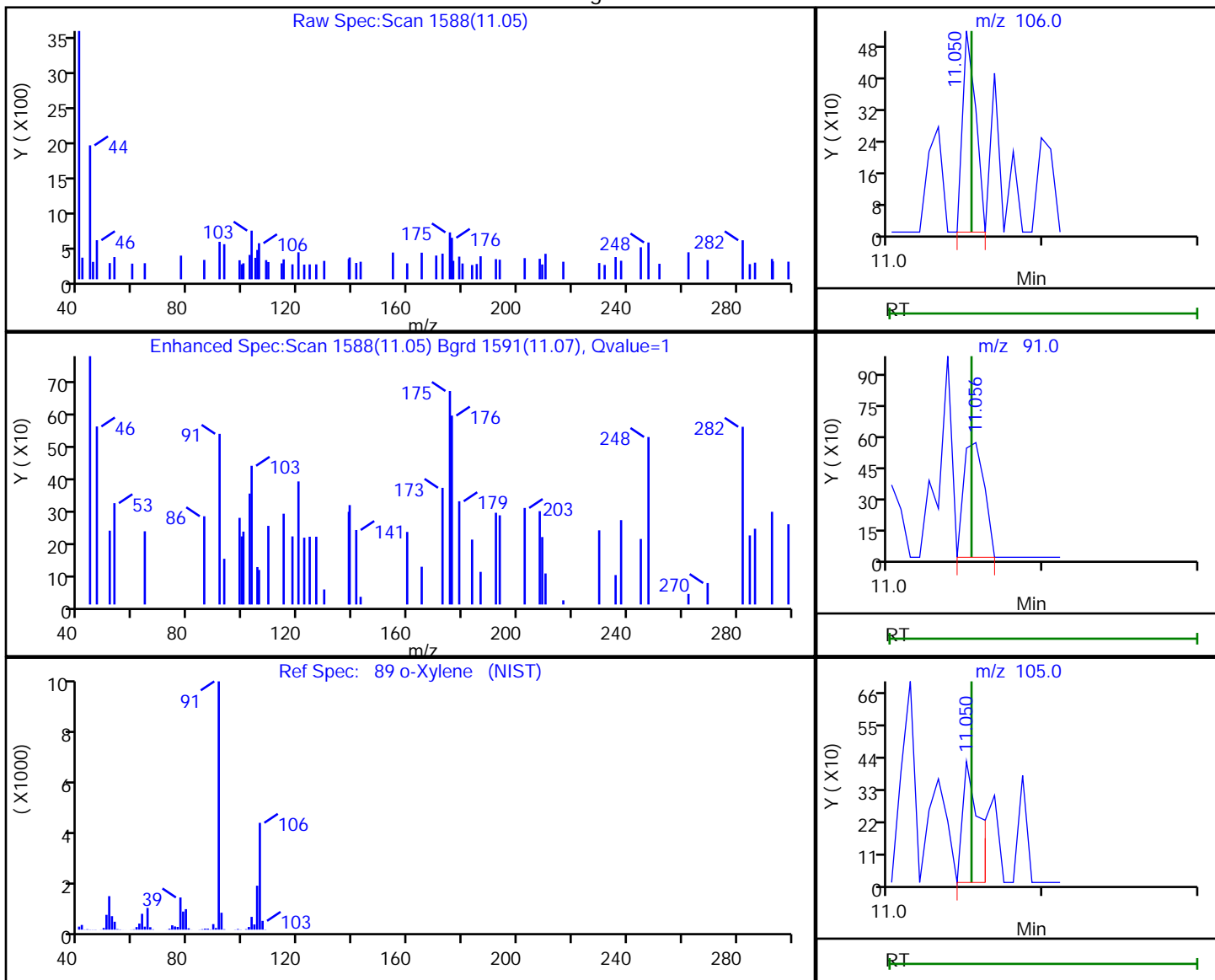
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012509.D  
 Injection Date: 25-Jan-2020 14:21:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-2 Lab Sample ID: 180-101459-2  
 Client ID: HD-COD-SW-8-0/1-0  
 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
11.05	106.00	303	0.054605
11.06	91.00	523	
11.05	105.00	315	

Reviewer: bowieh, 25-Jan-2020 15:17:17

Audit Action: Marked Compound Undetected

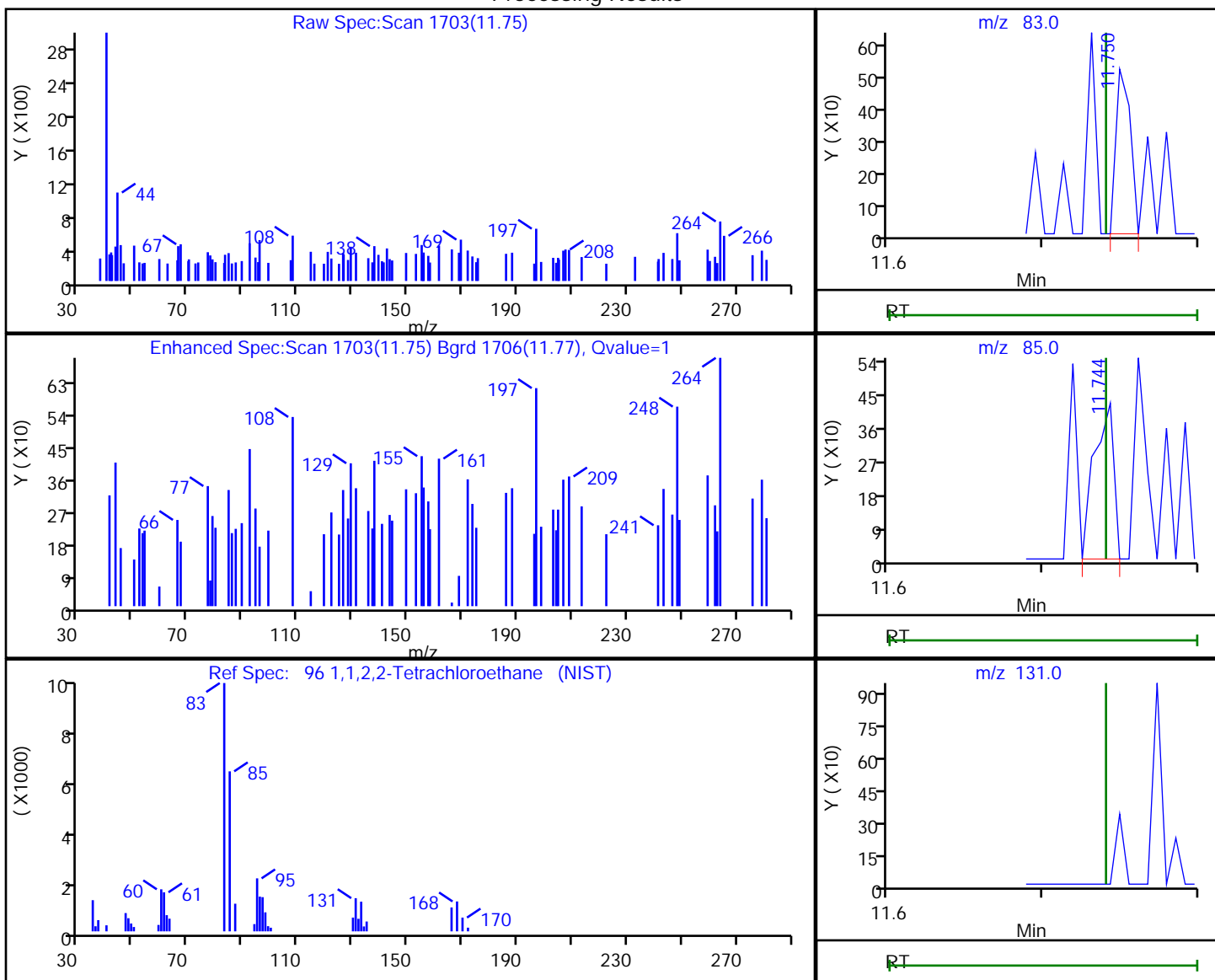
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012509.D  
 Injection Date: 25-Jan-2020 14:21:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-2 Lab Sample ID: 180-101459-2  
 Client ID: HD-COD-SW-8-0/1-0  
 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

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

Processing Results



RT	Mass	Response	Amount
11.75	83.00	336	0.135858
11.74	85.00	372	
11.74	131.00	0	

Reviewer: bowieh, 25-Jan-2020 15:17:19

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

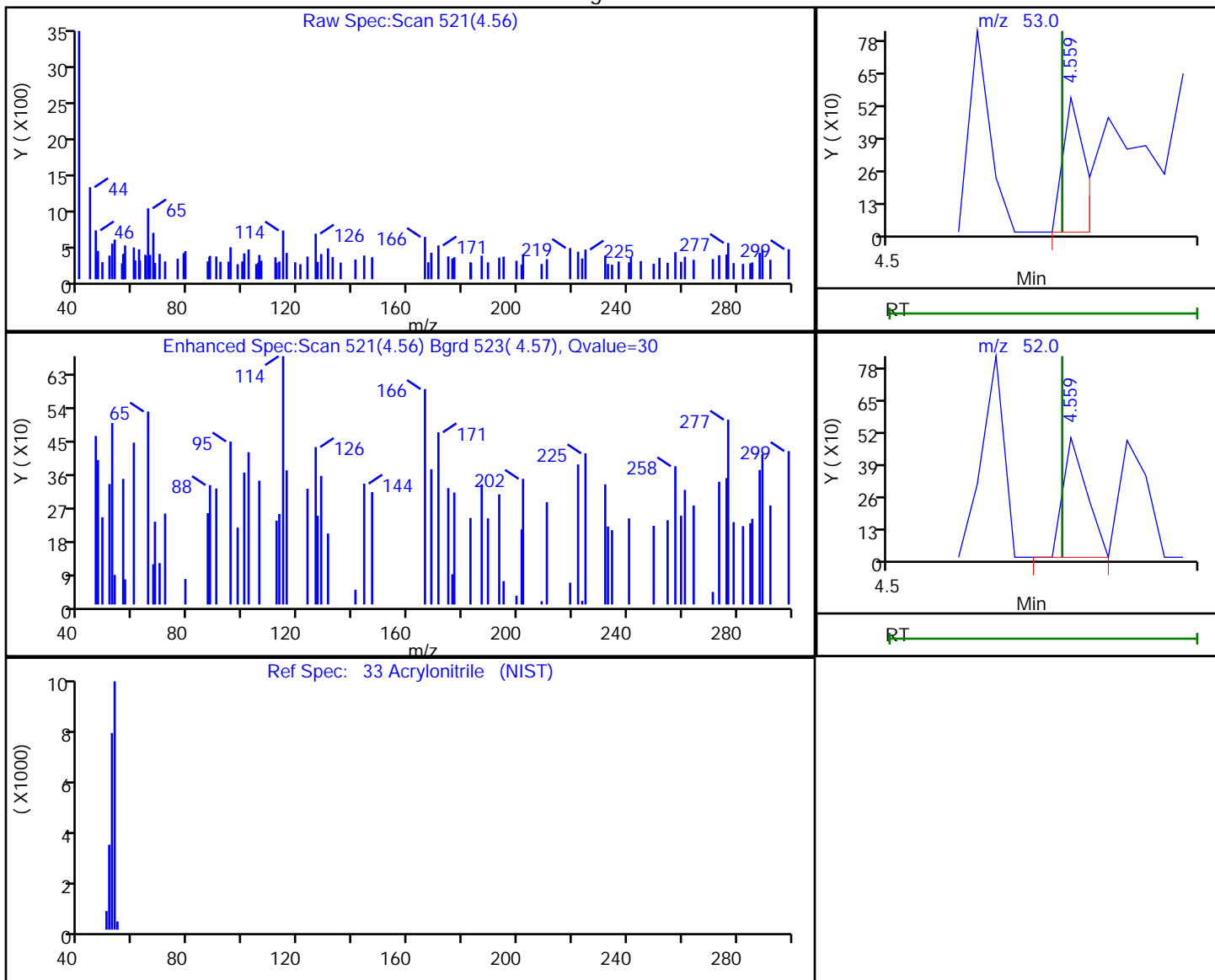


Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012509.D  
 Injection Date: 25-Jan-2020 14:21:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-2 Lab Sample ID: 180-101459-2  
 Client ID: HD-COD-SW-8-0/1-0  
 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
4.56	53.00	281	0.274658
4.56	52.00	263	

Reviewer: bowieh, 25-Jan-2020 15:16:38

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.: 180-101459-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: HD-COD-SW-13-0/1-0 Lab Sample ID: 180-101459-3  
 Matrix: Water Lab File ID: 6012510.D  
 Analysis Method: EPA 8260C Date Collected: 01/23/2020 10:40  
 Sample wt/vol: 5 (mL) Date Analyzed: 01/25/2020 14:49  
 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.: 304996 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	ND	^c	1.0	0.88
74-83-9	Bromomethane	ND	^c	1.0	0.89
75-00-3	Chloroethane	ND	^c	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.: 180-101459-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: HD-COD-SW-13-0/1-0 Lab Sample ID: 180-101459-3  
 Matrix: Water Lab File ID: 6012510.D  
 Analysis Method: EPA 8260C Date Collected: 01/23/2020 10:40  
 Sample wt/vol: 5 (mL) Date Analyzed: 01/25/2020 14:49  
 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.: 304996 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)	110		70-150
2037-26-5	Toluene-d8 (Surr)	89		78-128
460-00-4	4-Bromofluorobenzene (Surr)	76		64-123
1868-53-7	Dibromofluoromethane (Surr)	99		75-147

Eurofins TestAmerica, Pittsburgh  
Target Compound Quantitation Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012510.D  
 Lims ID: 180-101459-B-3  
 Client ID: HD-COD-SW-13-0/1-0  
 Sample Type: Client  
 Inject. Date: 25-Jan-2020 14:49:30 ALS Bottle#: 4 Worklist Smp#: 10  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 180-0030512-010  
 Misc. Info.: 180-101459-b-3  
 Operator ID: 433269 Instrument ID: CHHP6  
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\MSVOA\_LL\_CHHP6.m  
 Limit Group: VOA 8260C\_D ICAL  
 Last Update: 25-Jan-2020 15:18:56 Calib Date: 31-Dec-2019 16:03:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123111.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0321

First Level Reviewer: bowieh

Date: 25-Jan-2020 15:18:56

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.317	4.319	-0.002	90	125026	1000.0	
* 2 Fluorobenzene (IS)	96	7.304	7.306	-0.002	99	490272	50.0	
* 3 Chlorobenzene-d5	119	10.412	10.408	0.004	84	127723	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.755	12.757	-0.002	94	162592	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.580	6.582	-0.002	95	108944	49.3	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.951	6.953	-0.002	97	126108	54.9	
\$ 7 Toluene-d8 (Surr)	98	8.959	8.954	0.005	93	421769	44.6	
\$ 8 4-Bromofluorobenzene (Surr	95	11.599	11.595	0.004	0	127806	37.8	
12 Chloromethane	50	1.841	1.837	0.004	54	8803	2.36	M
13 Vinyl chloride	62		1.952				ND	U
15 Bromomethane	94		2.287				ND	U
16 Chloroethane	64		2.421				ND	U
22 1,1-Dichloroethene	96		3.370				ND	
24 Acetone	43	3.471	3.473	-0.002	70	9395	7.85	
26 Carbon disulfide	76		3.662				ND	U
31 Methylene Chloride	84		4.155				ND	
33 Acrylonitrile	53		4.556				ND	U
34 trans-1,2-Dichloroethene	96		4.574				ND	U
35 Methyl tert-butyl ether	73		4.611				ND	U
37 1,1-Dichloroethane	63		5.219				ND	
43 cis-1,2-Dichloroethene	96		5.967				ND	U
44 2-Butanone (MEK)	43	5.990	5.980	0.010	32	3226	2.14	
48 Chlorobromomethane	128		6.247				ND	
50 Chloroform	83		6.393				ND	U
51 1,1,1-Trichloroethane	97		6.558				ND	U
53 Carbon tetrachloride	117		6.722				ND	U
56 Benzene	78		6.959				ND	U
57 1,2-Dichloroethane	62		7.038				ND	U
61 Trichloroethene	130	7.693	7.689	0.004	38	3125	0.99	M
64 1,2-Dichloropropane	63		7.963				ND	U
68 Dichlorobromomethane	83		8.249				ND	U

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
71 cis-1,3-Dichloropropene	75		8.699				ND	U
72 4-Methyl-2-pentanone (MIBK)	43		8.857				ND	U
73 Toluene	91	9.025	9.021	0.004	31	3545	0.2945	
74 trans-1,3-Dichloropropene	75		9.277				ND	U
76 1,1,2-Trichloroethane	97		9.472				ND	U
77 Tetrachloroethene	164		9.538				ND	U
79 2-Hexanone	43		9.691				ND	U
81 Chlorodibromomethane	129		9.843				ND	U
82 Ethylene Dibromide	107		9.952				ND	U
84 Chlorobenzene	112		10.439				ND	U
86 1,1,1,2-Tetrachloroethane	131		10.530				ND	U
87 Ethylbenzene	106		10.542				ND	U
88 m-Xylene & p-Xylene	106		10.670				ND	U
89 o-Xylene	106		11.053				ND	U
90 Styrene	104		11.078				ND	
91 Bromoform	173		11.254				ND	
96 1,1,2,2-Tetrachloroethane	83		11.741				ND	U
S 131 Xylenes, Total	106		1.000				ND	

### QC Flag Legend

Review Flags

M - Manually Integrated

U - Marked Undetected

### Reagents:

VOA8260INT\_00103

Amount Added: 2.00

Units: uL

Run Reagent

VOA8260SURR\_00103

Amount Added: 2.00

Units: uL

Run Reagent

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012510.D

Injection Date: 25-Jan-2020 14:49:30

Instrument ID: CHHP6

Operator ID: 433269

Lims ID: 180-101459-B-3

Lab Sample ID: 180-101459-3

Worklist Smp#: 10

Client ID: HD-COD-SW-13-0/1-0

Purge Vol: 5.000 mL

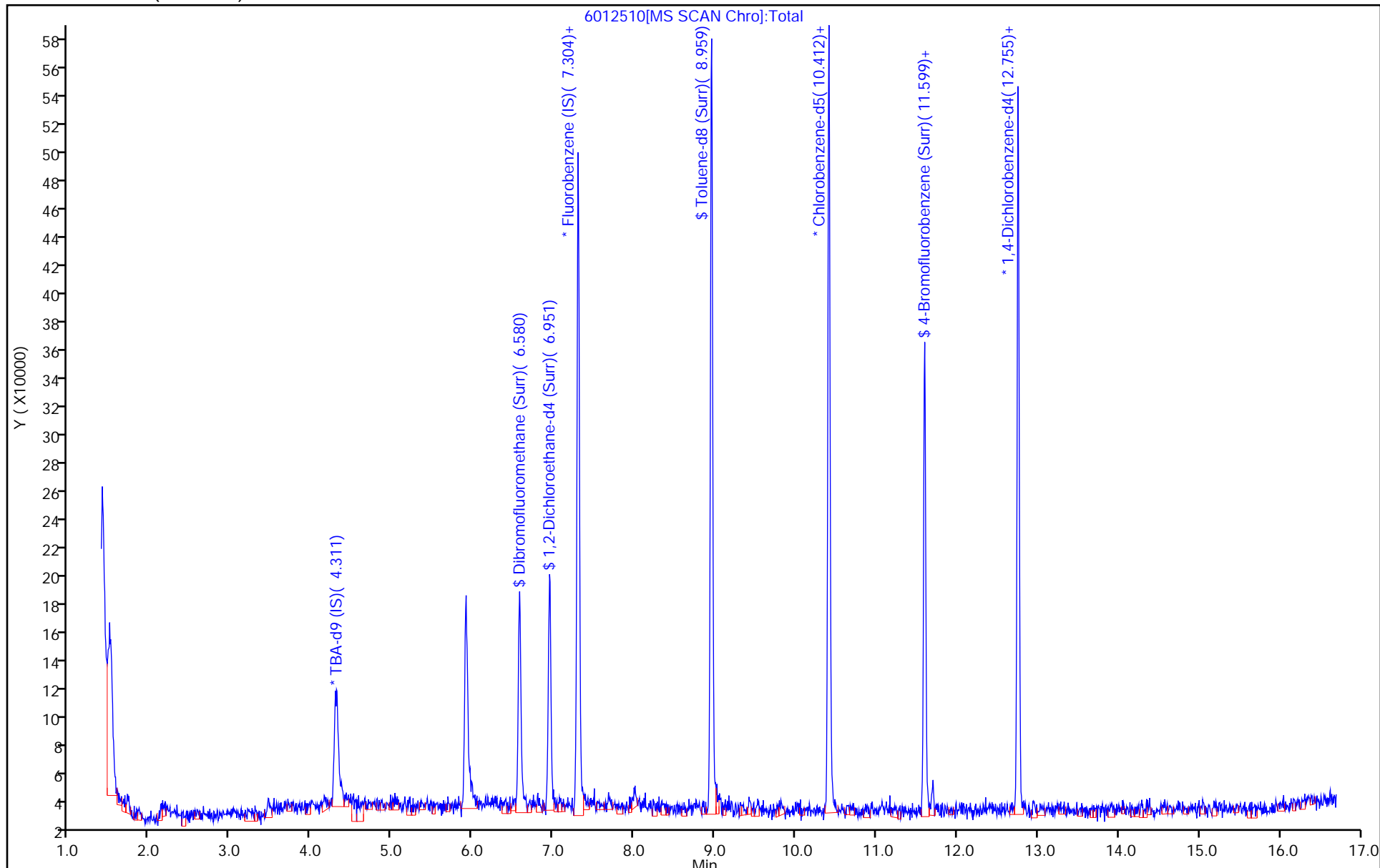
Dil. Factor: 1.0000

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\20200125-30512.b\6012510.D  
 Lims ID: 180-101459-B-3  
 Client ID: HD-COD-SW-13-0/1-0  
 Sample Type: Client  
 Inject. Date: 25-Jan-2020 14:49:30 ALS Bottle#: 4 Worklist Smp#: 10  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 180-0030512-010  
 Misc. Info.: 180-101459-b-3  
 Operator ID: 433269 Instrument ID: CHHP6  
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\MSVOA\_LL\_CHHP6.m  
 Limit Group: VOA 8260C\_D ICAL  
 Last Update: 25-Jan-2020 15:18:56 Calib Date: 31-Dec-2019 16:03:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123111.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0321

First Level Reviewer: bowieh

Date: 25-Jan-2020 15:18:56

Compound	Amount Added	Amount Recovered	% Rec.
\$ 5 Dibromofluoromethane (Surr)	50.0	49.3	98.63
\$ 6 1,2-Dichloroethane-d4 (Surr)	50.0	54.9	109.71
\$ 7 Toluene-d8 (Surr)	50.0	44.6	89.15
\$ 8 4-Bromofluorobenzene (Surr)	50.0	37.8	75.64

Eurofins TestAmerica, Pittsburgh

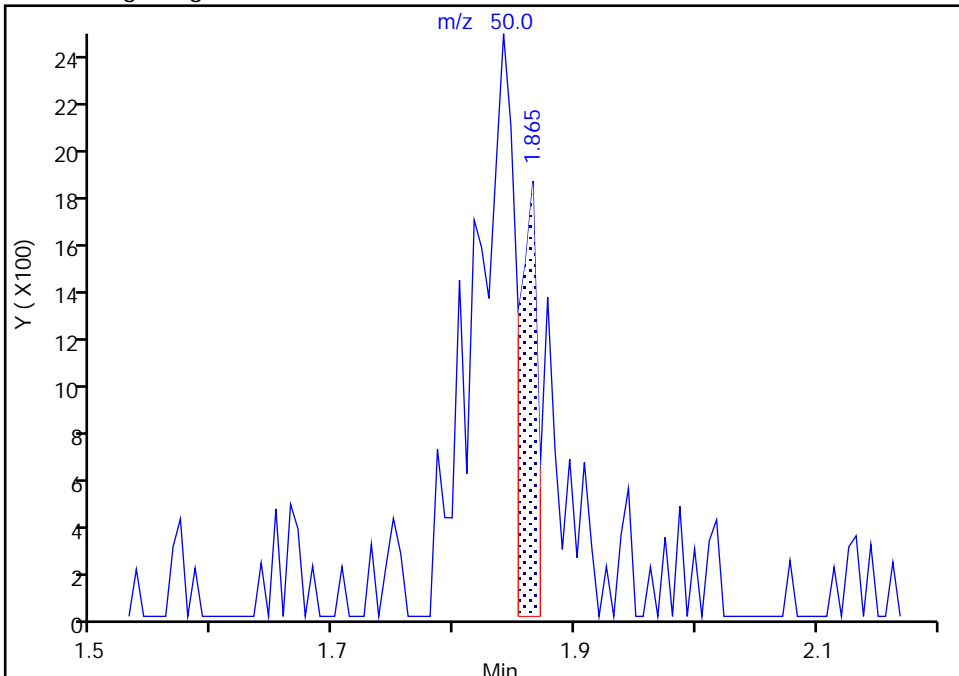
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Injection Date: 25-Jan-2020 14:49:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-3 Lab Sample ID: 180-101459-3  
Client ID: HD-COD-SW-13-0/1-0  
Operator ID: 433269 ALS Bottle#: 4 Worklist Smp#: 10  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
Column: DB-624 (0.18 mm) Detector: MS SCAN

12 Chloromethane, CAS: 74-87-3

Signal: 1

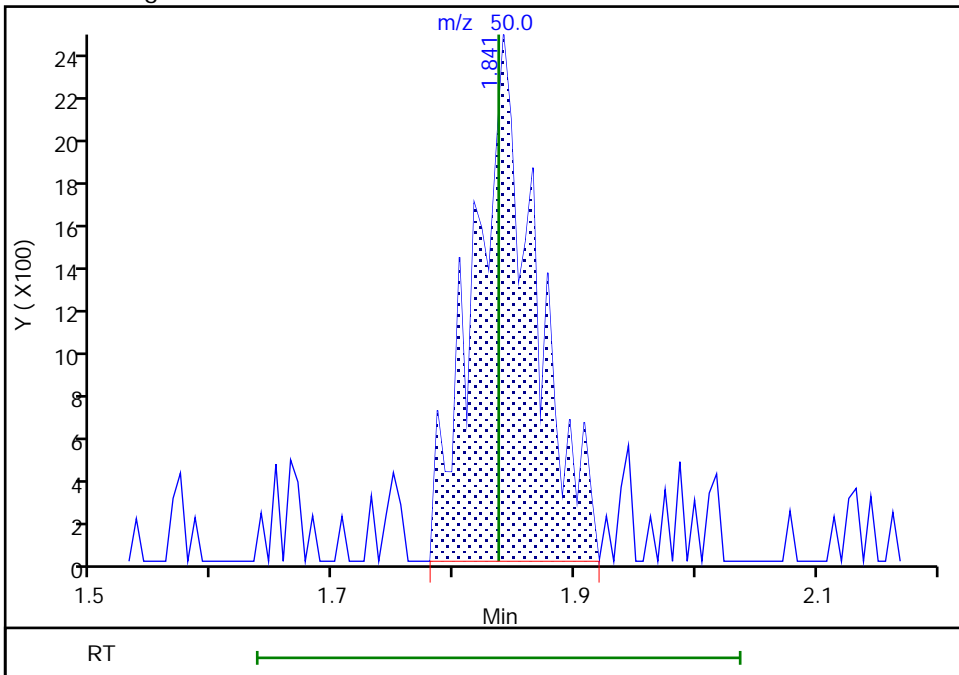
RT: 1.87  
Area: 1922  
Amount: 0.514424  
Amount Units: ng

Processing Integration Results



RT: 1.84  
Area: 8803  
Amount: 2.356124  
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 25-Jan-2020 15:17:50  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography  
Page 220 of 880



Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012510.D
Injection Date: 25-Jan-2020 14:49:30 Instrument ID: CHHP6
Lims ID: 180-101459-B-3 Lab Sample ID: 180-101459-3
Client ID: HD-COD-SW-13-0/1-0
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

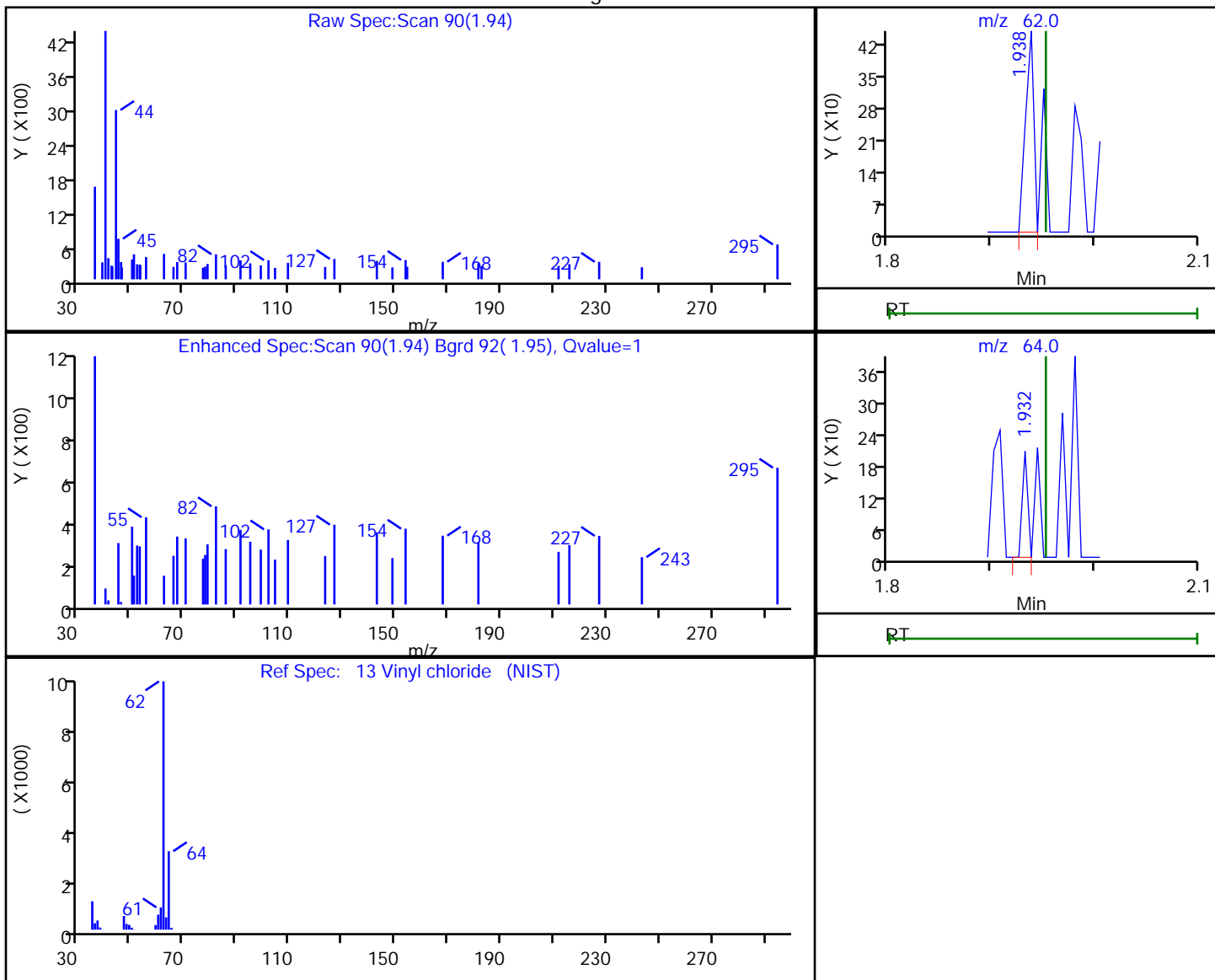


Table with 4 columns: RT, Mass, Response, Amount. Data rows: (1.94, 62.00, 249, 0.077446) and (1.93, 64.00, 74, )

Reviewer: bowieh, 25-Jan-2020 15:17:52

Audit Action: Marked Compound Undetected

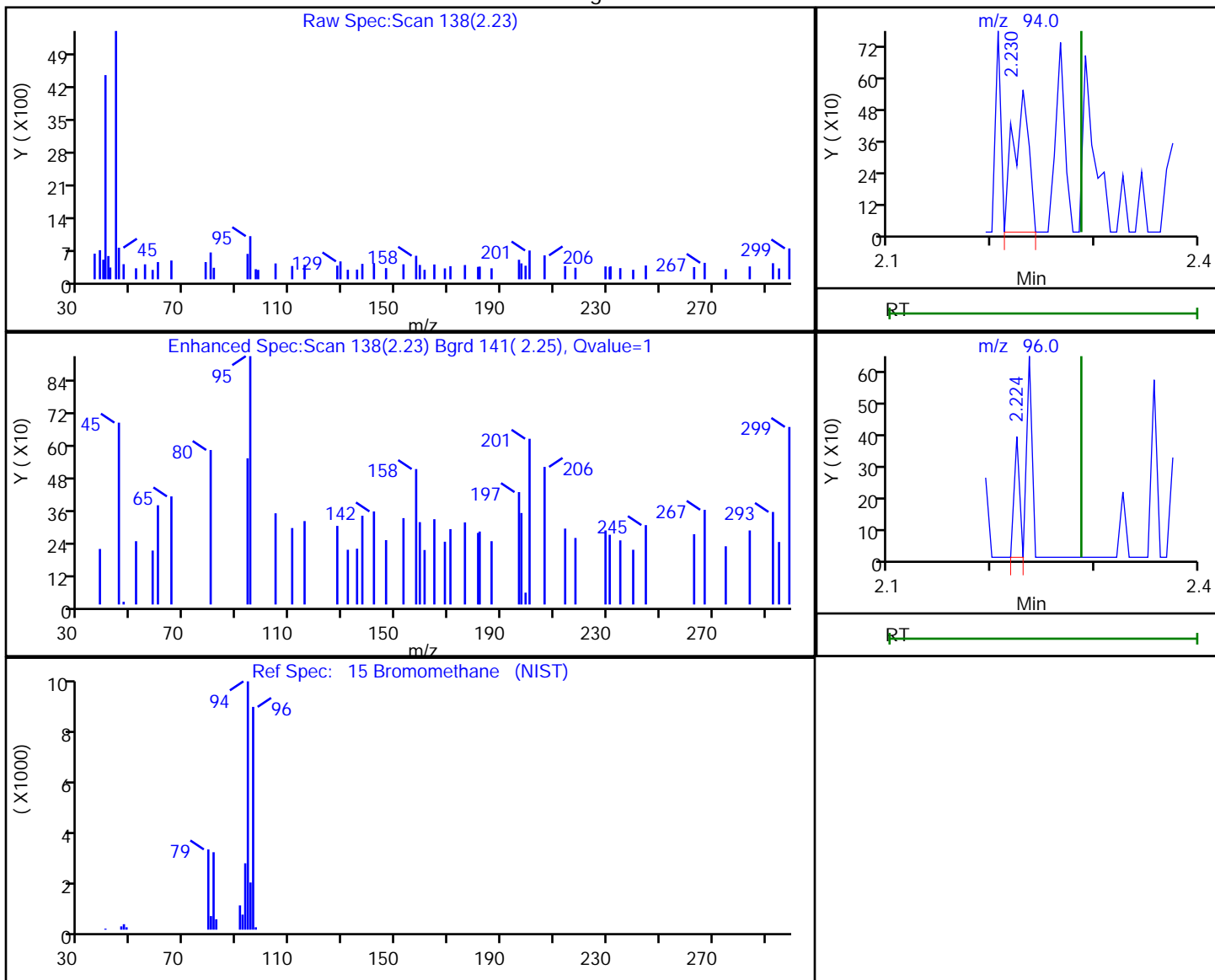
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012510.D  
Injection Date: 25-Jan-2020 14:49:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-3 Lab Sample ID: 180-101459-3  
Client ID: HD-COD-SW-13-0/1-0  
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



Reviewer: bowieh, 25-Jan-2020 15:17:54

Audit Action: Marked Compound Undetected

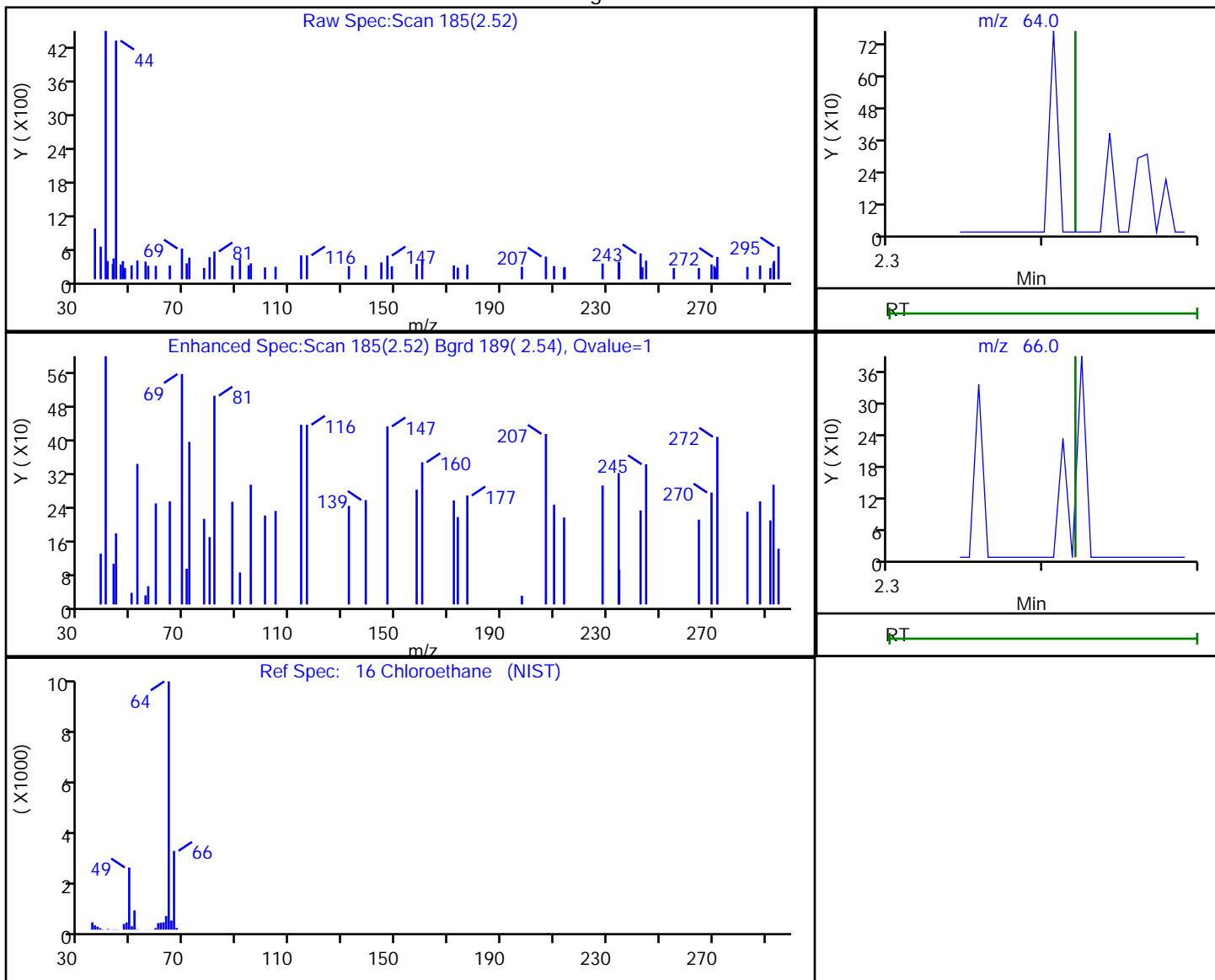
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Injection Date: 25-Jan-2020 14:49:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-3 Lab Sample ID: 180-101459-3  
 Client ID: HD-COD-SW-13-0/1-0  
 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

16 Chloroethane, CAS: 75-00-3

Processing Results



RT	Mass	Response	Amount
2.52	64.00	262	0.111890
2.52	66.00	182	

Reviewer: bowieh, 25-Jan-2020 15:17:55

Audit Action: Marked Compound Undetected

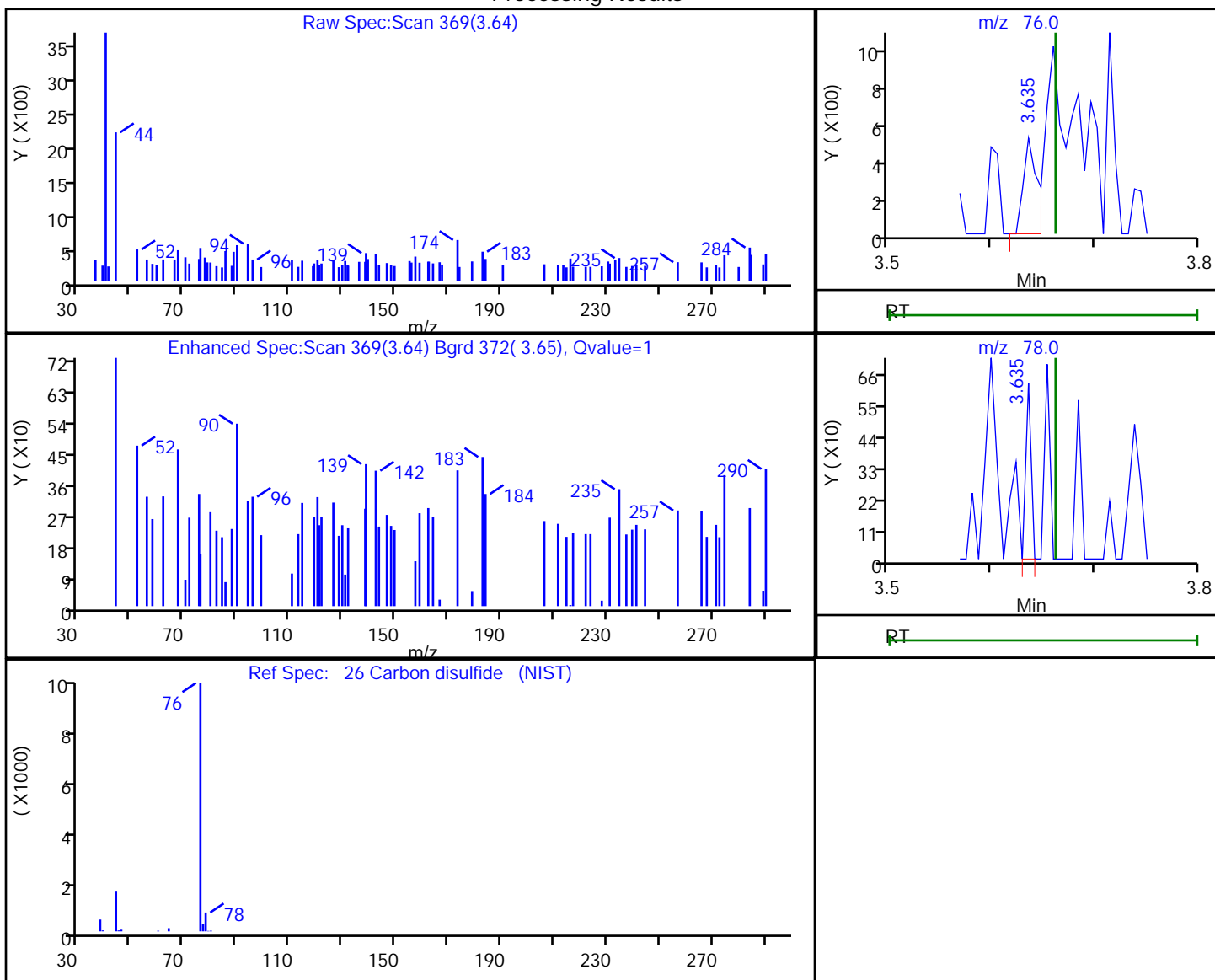
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012510.D  
 Injection Date: 25-Jan-2020 14:49:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-3 Lab Sample ID: 180-101459-3  
 Client ID: HD-COD-SW-13-0/1-0  
 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
3.64	76.00	460	0.087097
3.64	78.00	228	

Reviewer: bowieh, 25-Jan-2020 15:17:57

Audit Action: Marked Compound Undetected

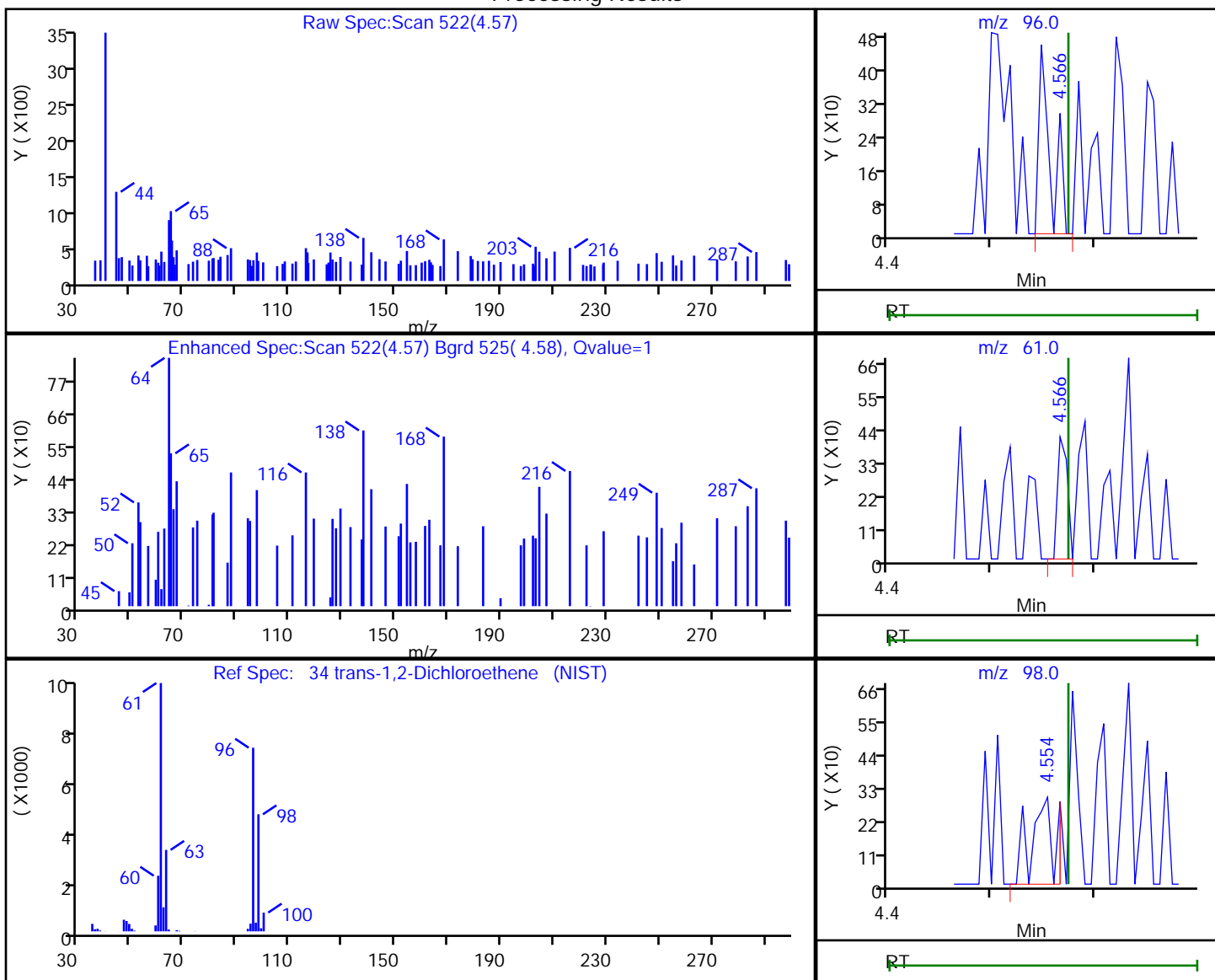
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012510.D  
 Injection Date: 25-Jan-2020 14:49:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-3 Lab Sample ID: 180-101459-3  
 Client ID: HD-COD-SW-13-0/1-0  
 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
4.57	96.00	359	0.134515
4.57	61.00	270	
4.55	98.00	471	

Reviewer: bowieh, 25-Jan-2020 15:18:00

Audit Action: Marked Compound Undetected

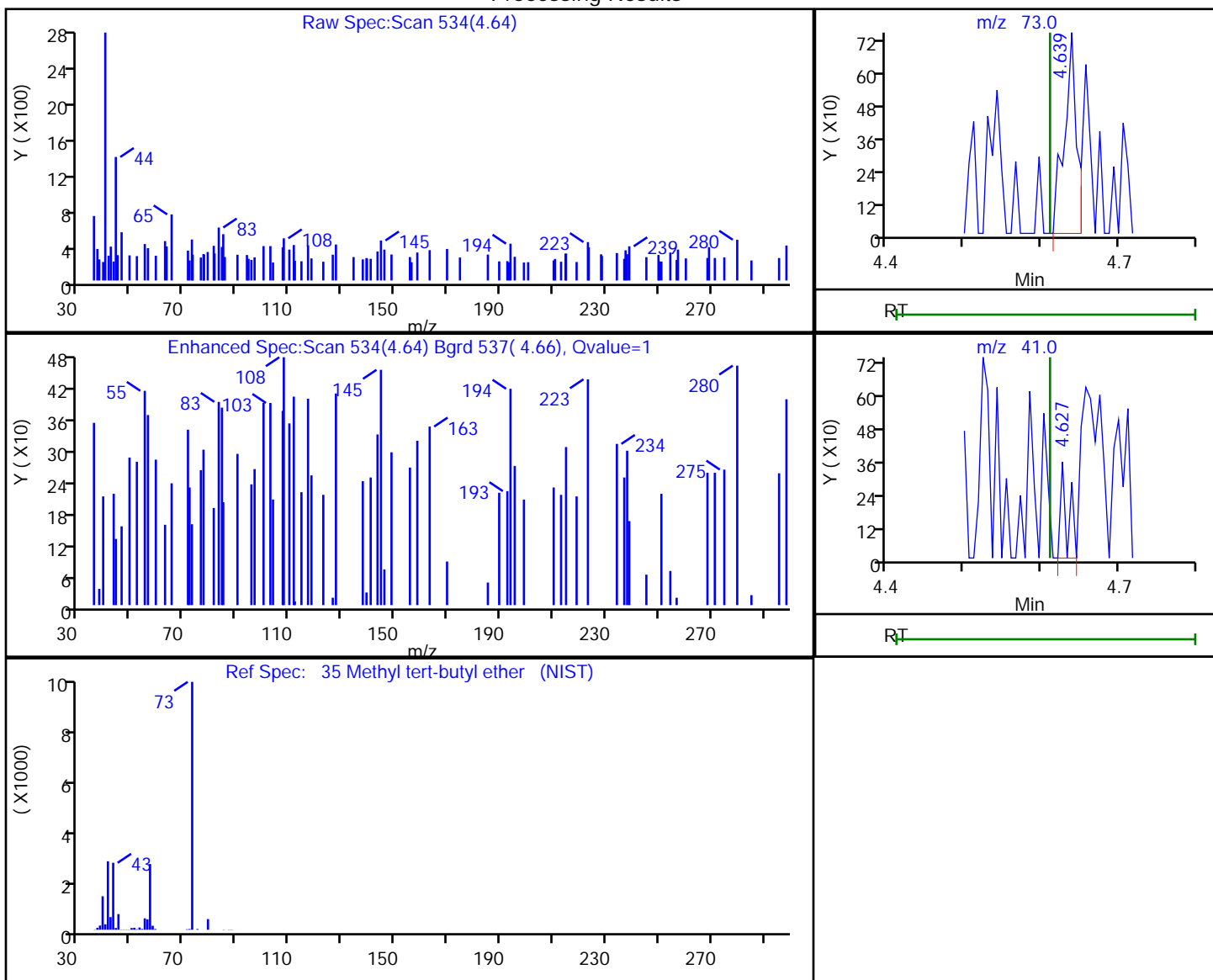
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012510.D  
Injection Date: 25-Jan-2020 14:49:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-3 Lab Sample ID: 180-101459-3  
Client ID: HD-COD-SW-13-0/1-0  
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
4.64	73.00	837	0.161889
4.63	41.00	229	

Reviewer: bowieh, 25-Jan-2020 15:18:01

Audit Action: Marked Compound Undetected

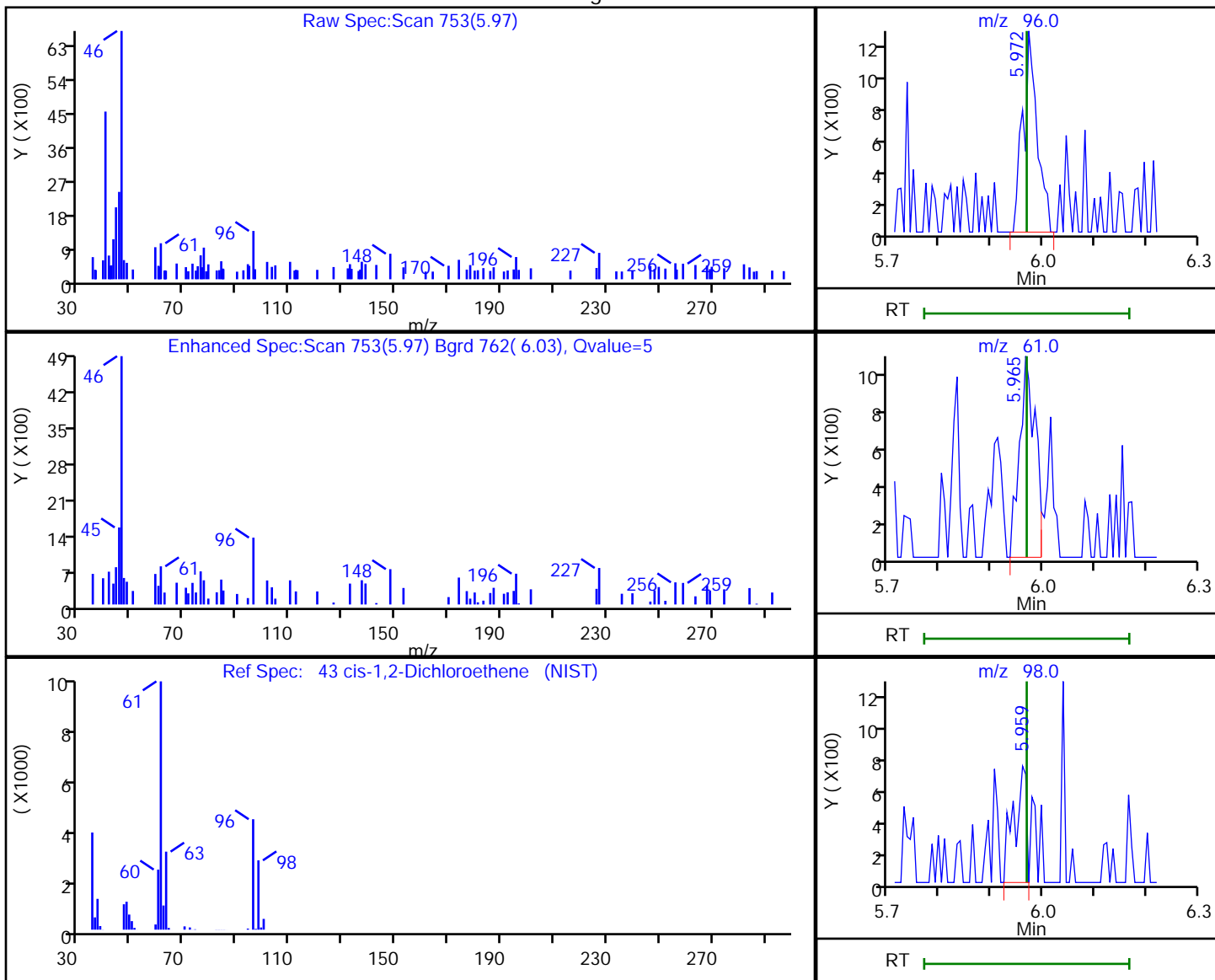
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012510.D  
 Injection Date: 25-Jan-2020 14:49:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-3 Lab Sample ID: 180-101459-3  
 Client ID: HD-COD-SW-13-0/1-0  
 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
5.97	96.00	2482	0.863727
5.97	61.00	2339	
5.96	98.00	1172	

Reviewer: bowieh, 25-Jan-2020 15:18:06

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

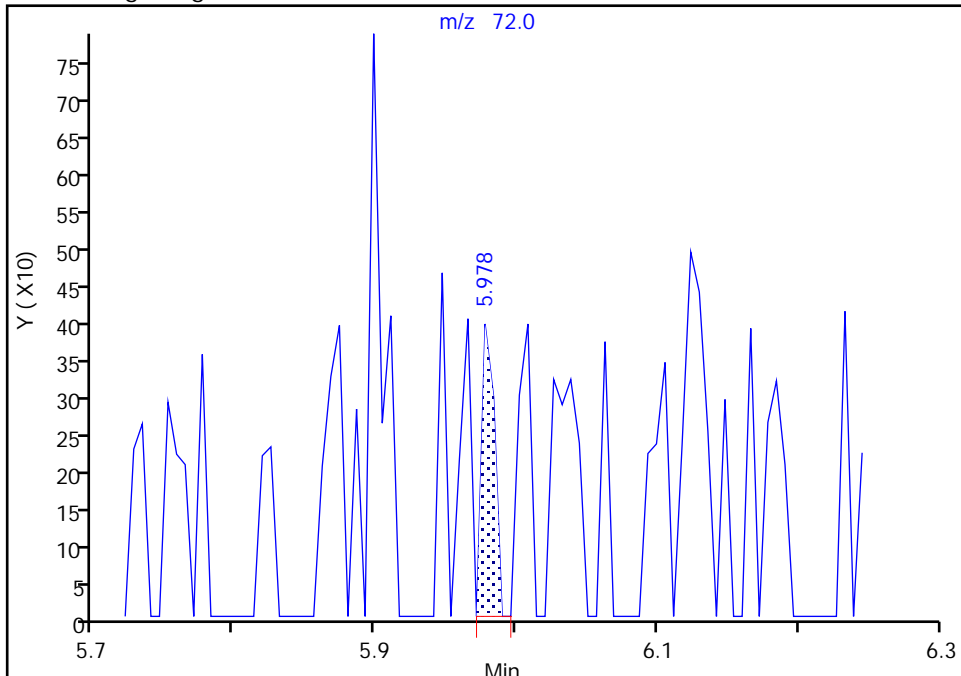
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Injection Date: 25-Jan-2020 14:49:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-3 Lab Sample ID: 180-101459-3  
Client ID: HD-COD-SW-13-0/1-0  
Operator ID: 433269 ALS Bottle#: 4 Worklist Smp#: 10  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: 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

Signal: 2

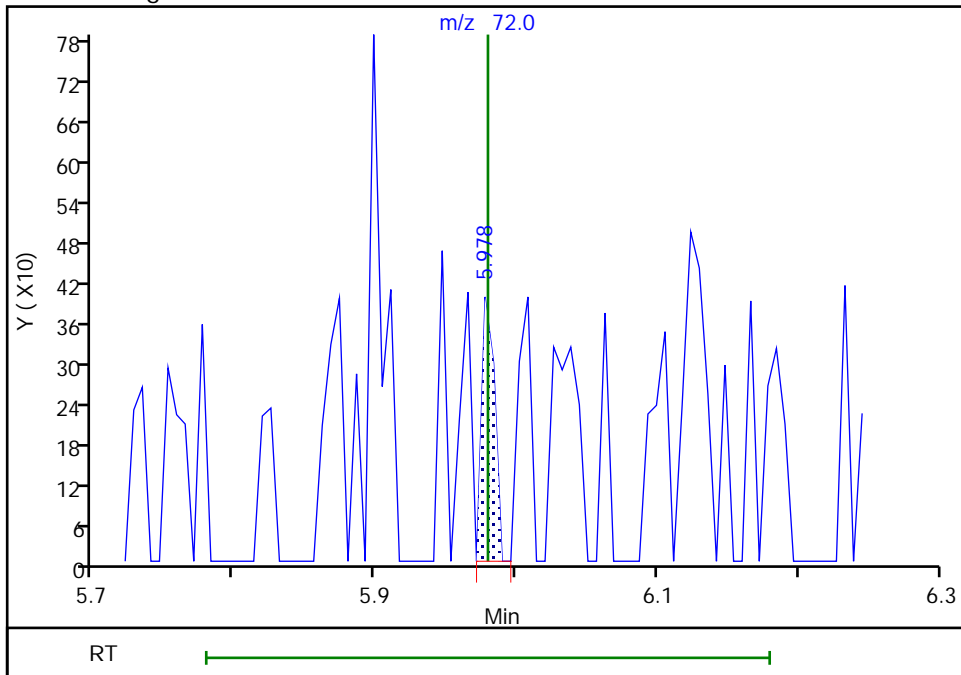
RT: 5.98  
Area: 252  
Amount: 2.143310  
Amount Units: ng

Processing Integration Results



RT: 5.98  
Area: 252  
Amount: 2.143310  
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 25-Jan-2020 15:18:08  
Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID  
Page 228 of 880



Eurofins TestAmerica, Pittsburgh

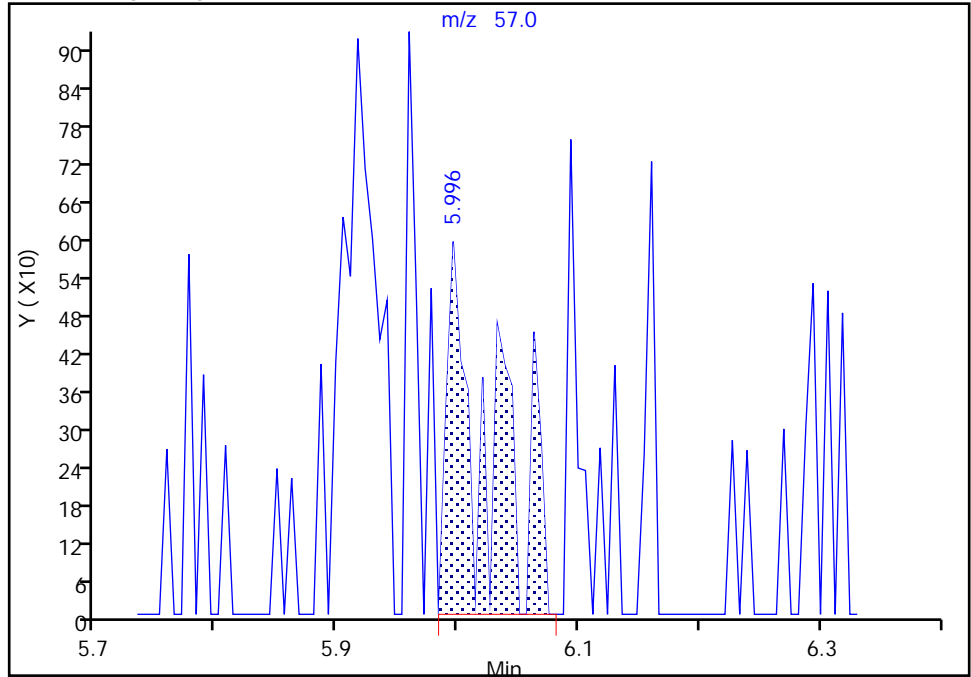
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Injection Date: 25-Jan-2020 14:49:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-3 Lab Sample ID: 180-101459-3  
Client ID: HD-COD-SW-13-0/1-0  
Operator ID: 433269 ALS Bottle#: 4 Worklist Smp#: 10  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: 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

Signal: 3

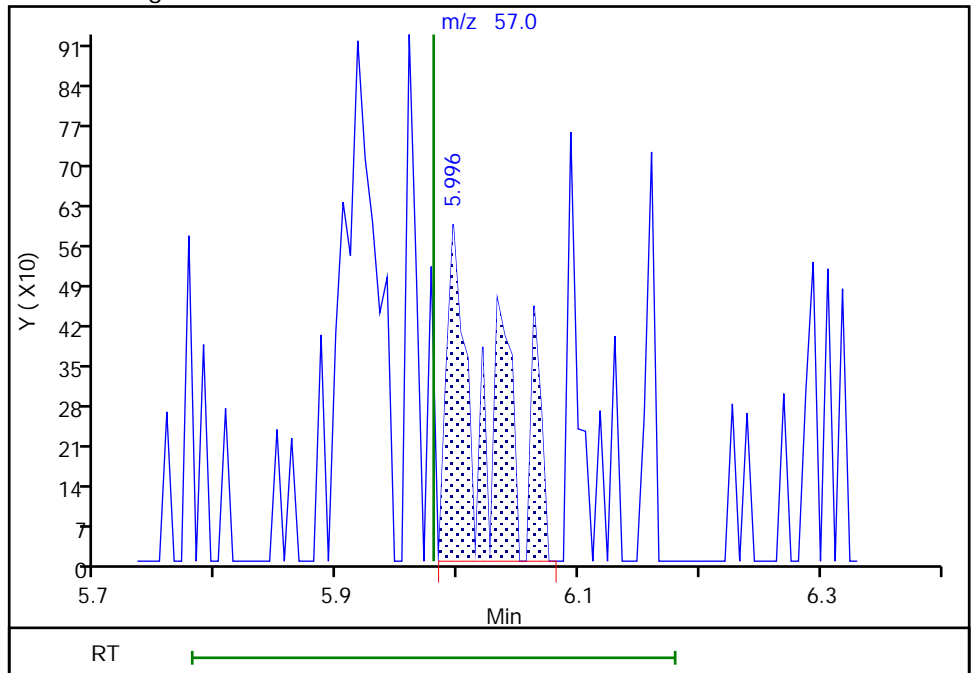
RT: 6.00  
Area: 1453  
Amount: 2.143310  
Amount Units: ng

Processing Integration Results



RT: 6.00  
Area: 1453  
Amount: 2.143310  
Amount Units: ng

Manual Integration Results

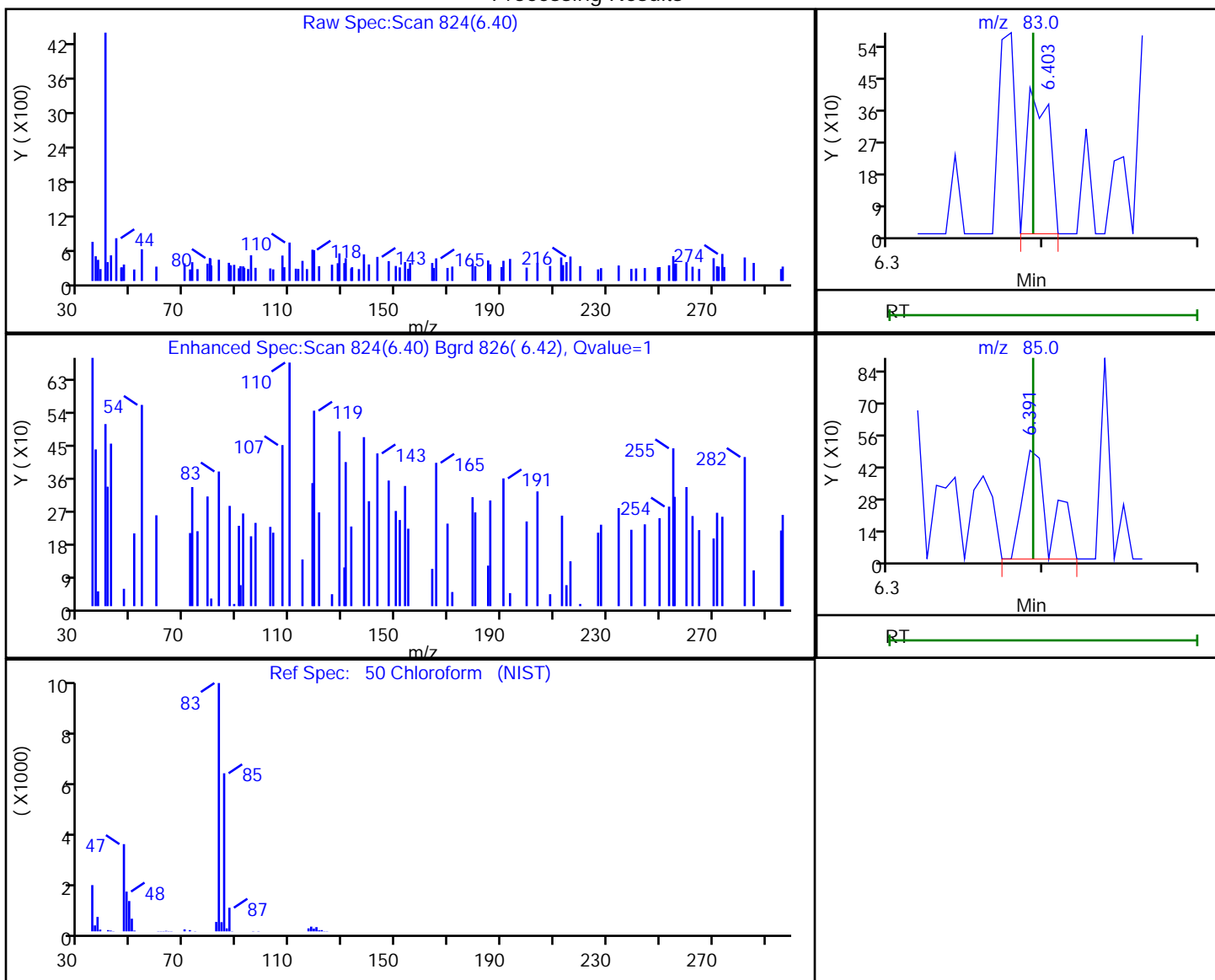


Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012510.D  
 Injection Date: 25-Jan-2020 14:49:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-3 Lab Sample ID: 180-101459-3  
 Client ID: HD-COD-SW-13-0/1-0  
 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

50 Chloroform, CAS: 67-66-3

Processing Results



RT	Mass	Response	Amount
6.40	83.00	410	-3.819497
6.39	85.00	612	

Reviewer: bowieh, 25-Jan-2020 15:18:11

Audit Action: Marked Compound Undetected

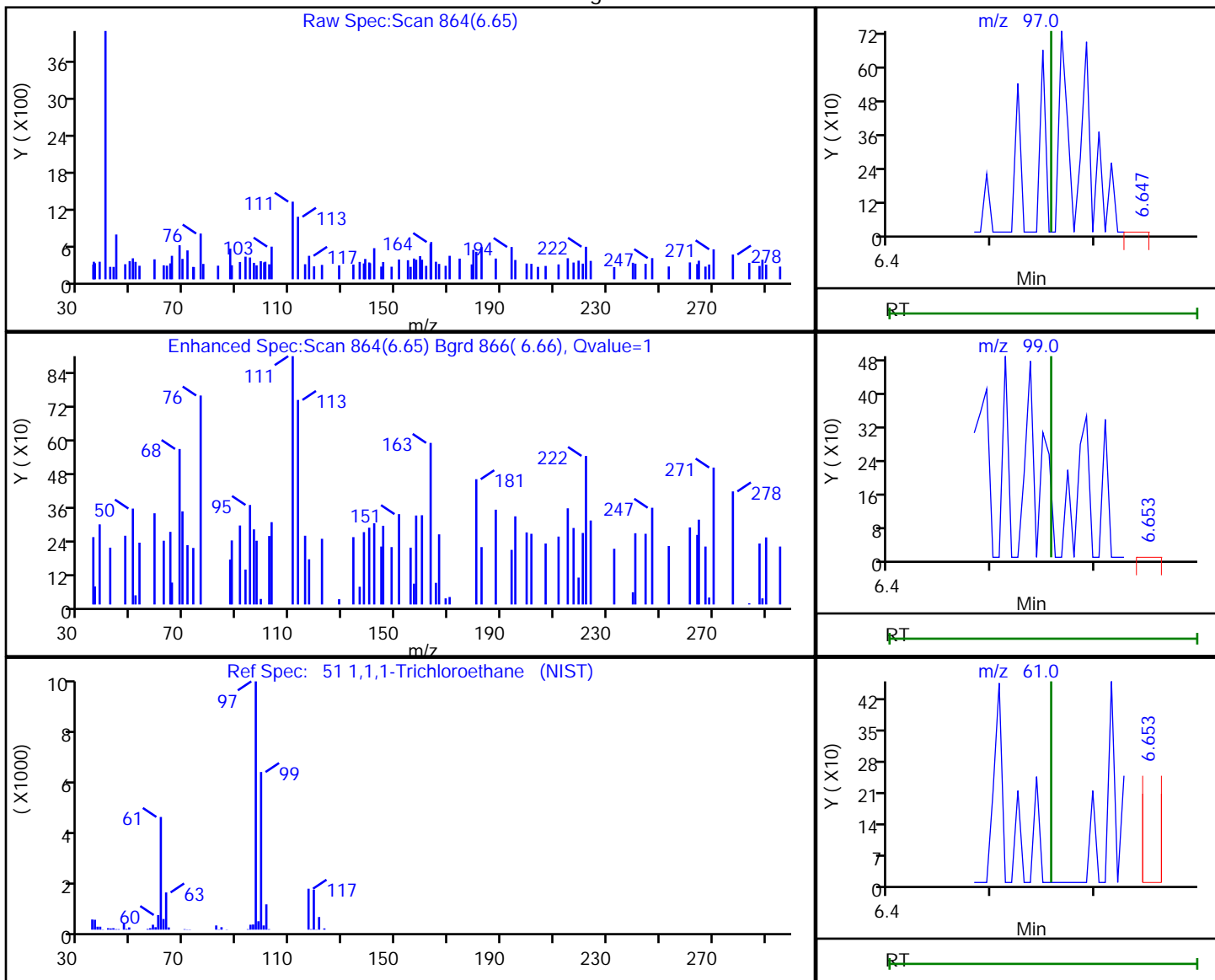
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012510.D  
 Injection Date: 25-Jan-2020 14:49:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-3 Lab Sample ID: 180-101459-3  
 Client ID: HD-COD-SW-13-0/1-0  
 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

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

Processing Results



RT	Mass	Response	Amount
6.65	97.00	159	0.048068
6.65	99.00	335	
6.65	61.00	317	

Reviewer: bowieh, 25-Jan-2020 15:18:12

Audit Action: Marked Compound Undetected

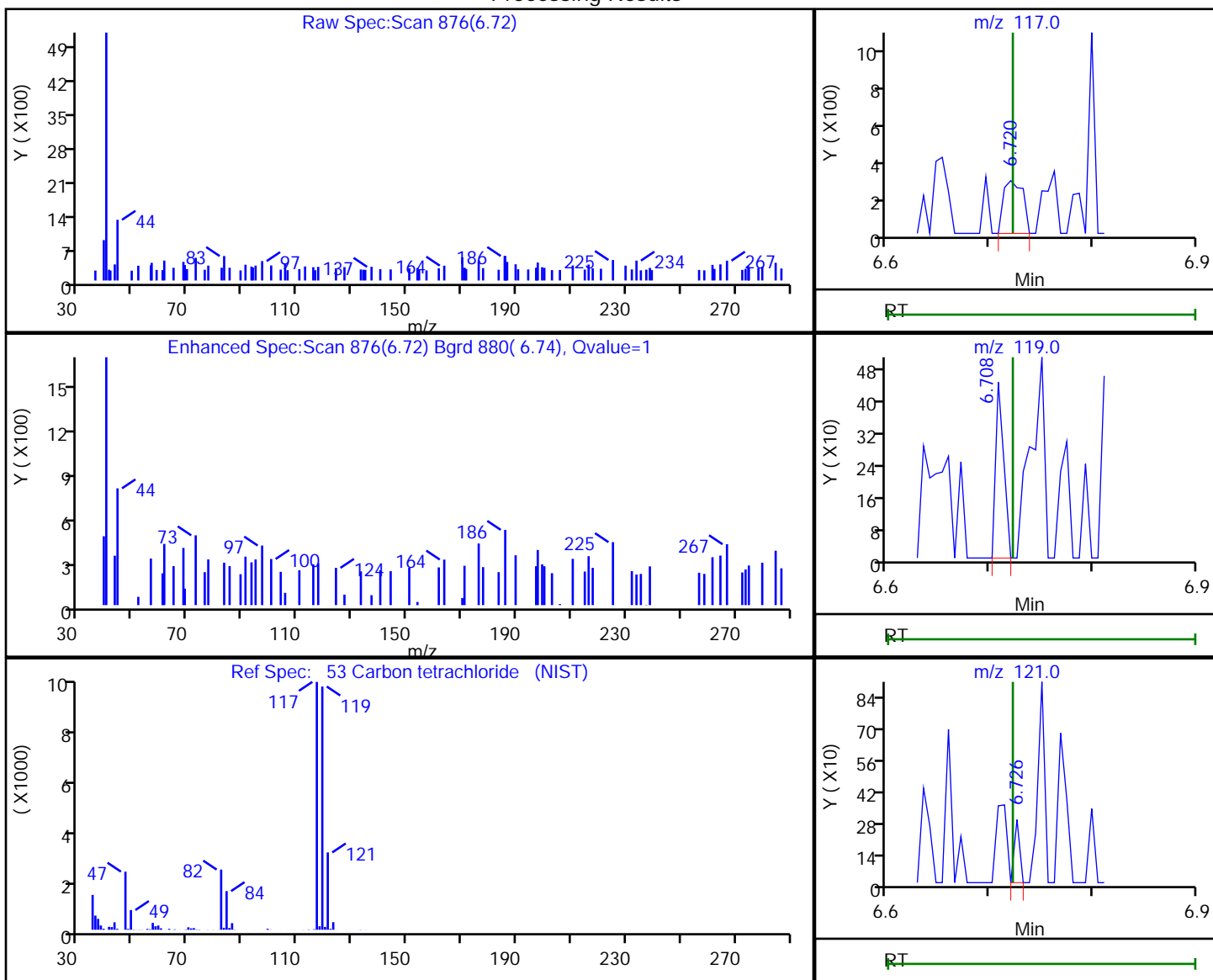
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012510.D  
 Injection Date: 25-Jan-2020 14:49:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-3 Lab Sample ID: 180-101459-3  
 Client ID: HD-COD-SW-13-0/1-0  
 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

53 Carbon tetrachloride, CAS: 56-23-5

Processing Results



RT	Mass	Response	Amount
6.72	117.00	370	0.133004
6.71	119.00	243	
6.73	121.00	104	

Reviewer: bowieh, 25-Jan-2020 15:18:13

Audit Action: Marked Compound Undetected

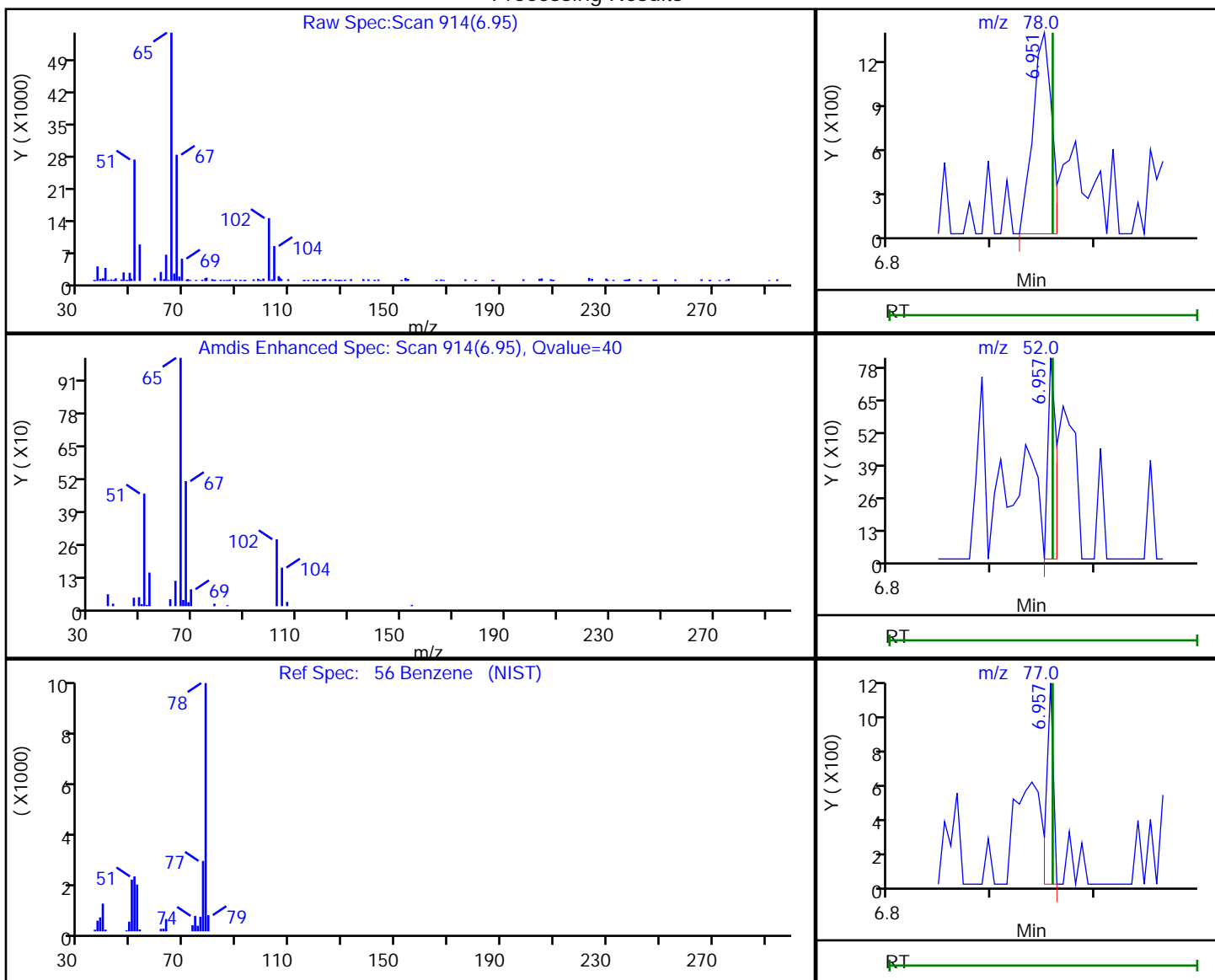
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012510.D  
 Injection Date: 25-Jan-2020 14:49:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-3 Lab Sample ID: 180-101459-3  
 Client ID: HD-COD-SW-13-0/1-0  
 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
6.95	78.00	1670	0.157610
6.96	52.00	467	
6.96	77.00	534	

Reviewer: bowieh, 25-Jan-2020 15:18:14

Audit Action: Marked Compound Undetected

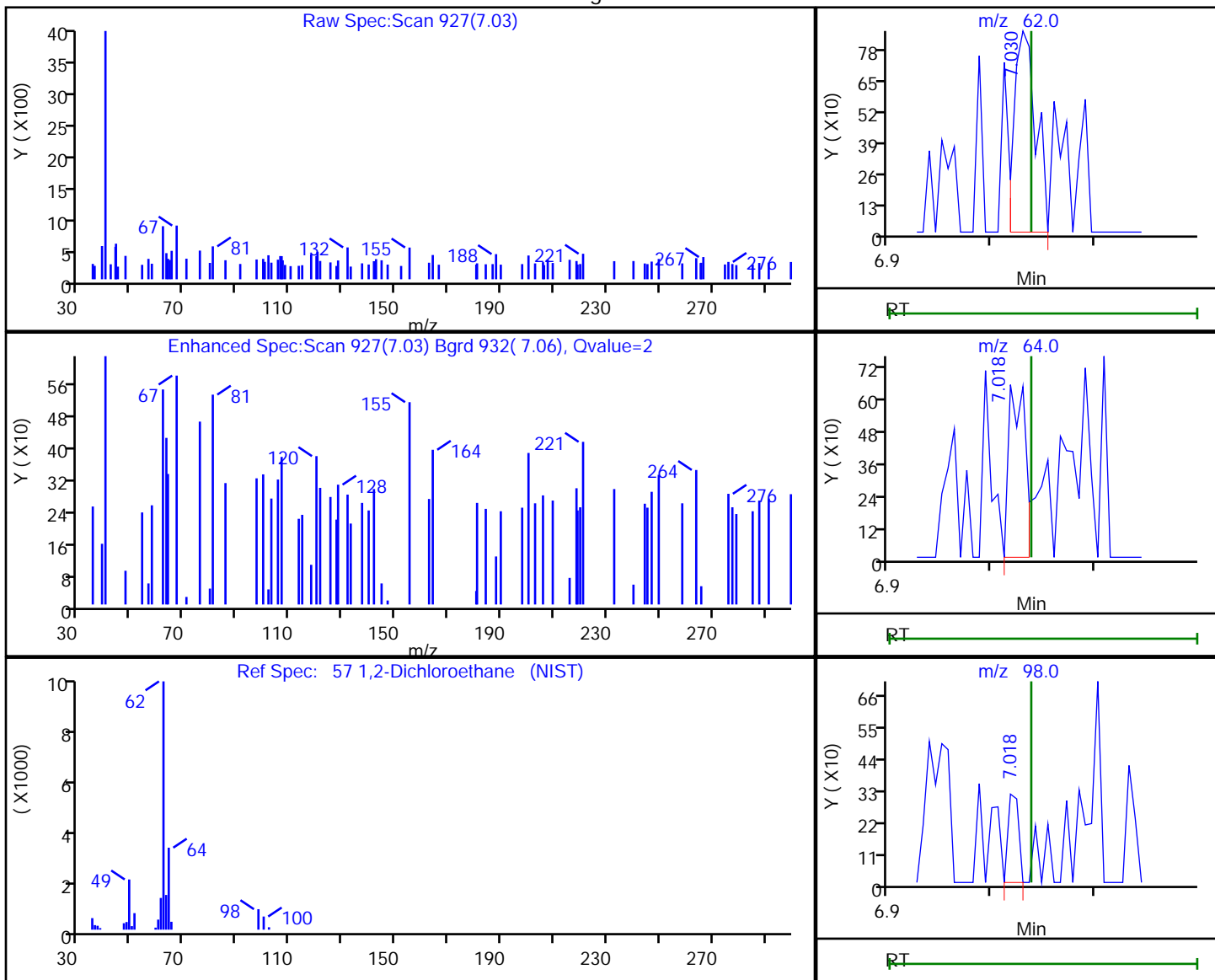
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012510.D  
 Injection Date: 25-Jan-2020 14:49:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-3 Lab Sample ID: 180-101459-3  
 Client ID: HD-COD-SW-13-0/1-0  
 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
7.03	62.00	1244	0.426274
7.02	64.00	723	
7.02	98.00	222	

Reviewer: bowieh, 25-Jan-2020 15:18:16

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

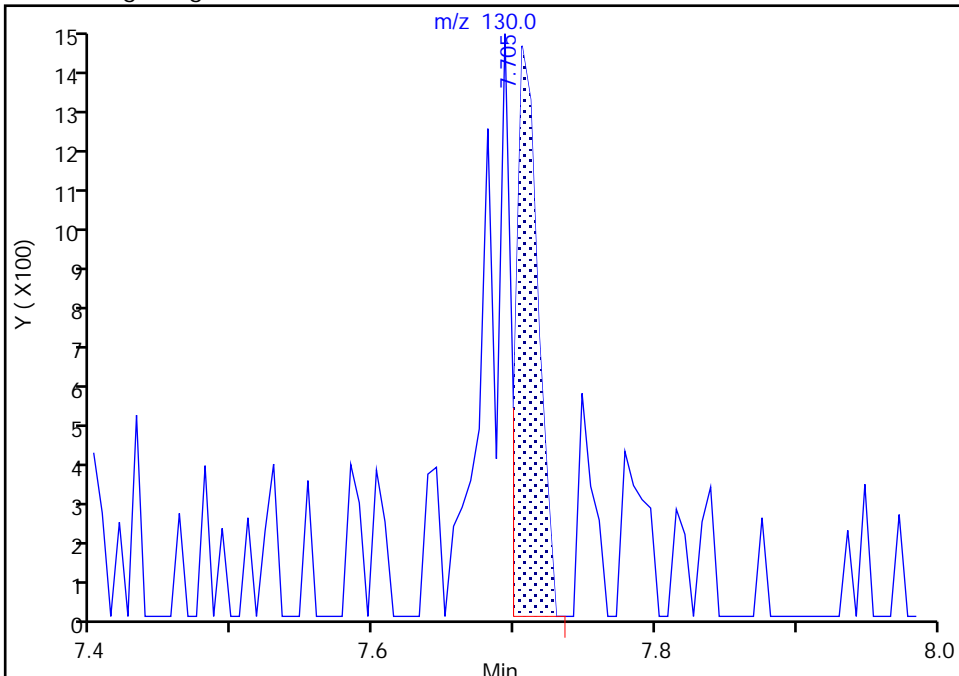
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Injection Date: 25-Jan-2020 14:49:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-3 Lab Sample ID: 180-101459-3  
Client ID: HD-COD-SW-13-0/1-0  
Operator ID: 433269 ALS Bottle#: 4 Worklist Smp#: 10  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: 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

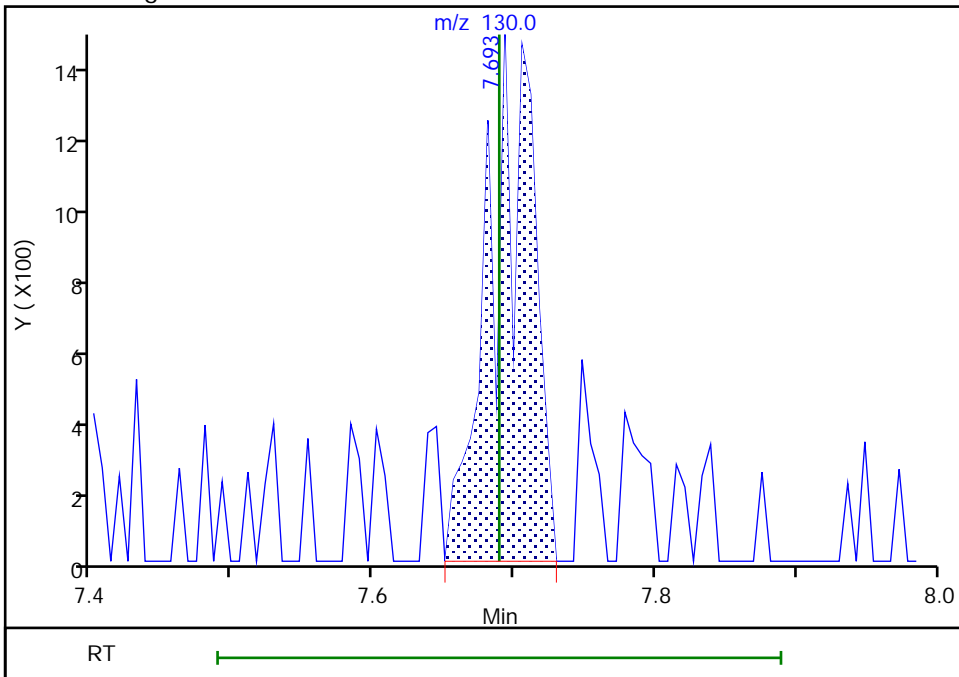
RT: 7.71  
Area: 1544  
Amount: 0.491589  
Amount Units: ng

Processing Integration Results



RT: 7.69  
Area: 3125  
Amount: 0.994959  
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 25-Jan-2020 15:18:24  
Audit Action: Manually Integrated

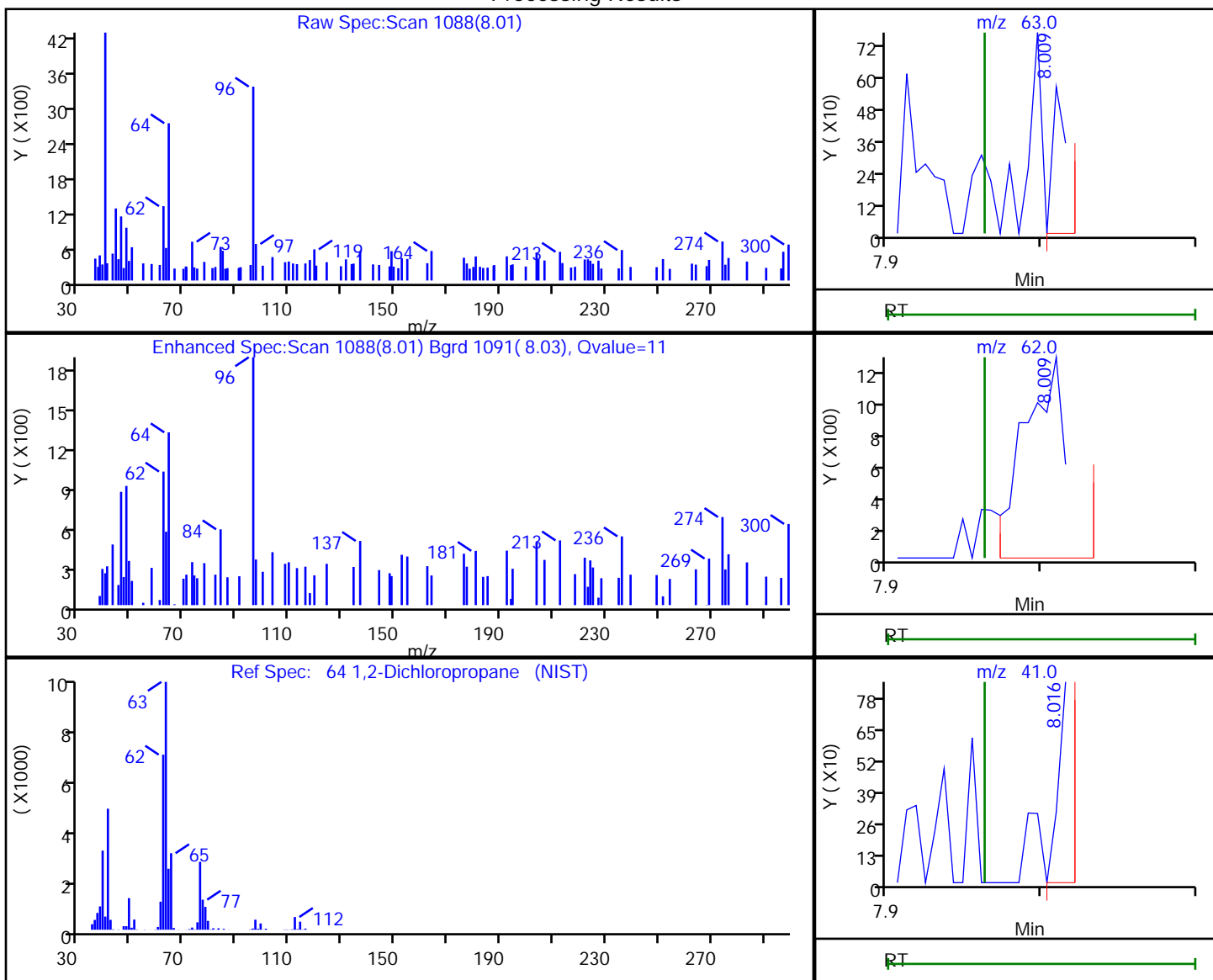
Audit Reason: Poor chromatography  
Page 235 of 880

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012510.D  
 Injection Date: 25-Jan-2020 14:49:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-3 Lab Sample ID: 180-101459-3  
 Client ID: HD-COD-SW-13-0/1-0  
 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
8.01	63.00	331	0.133449
8.01	62.00	2631	
8.02	41.00	417	

Reviewer: bowieh, 25-Jan-2020 15:18:27

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

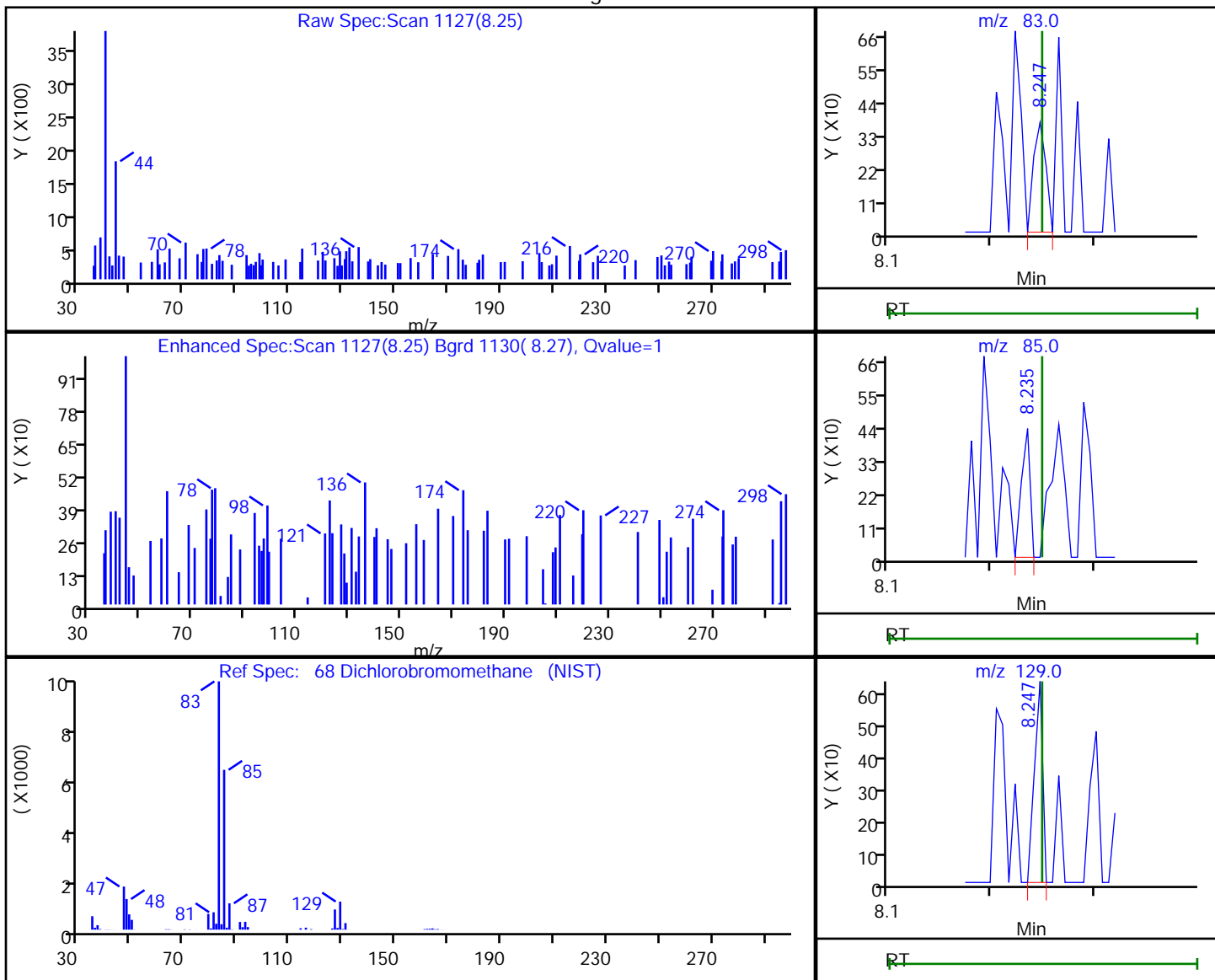


Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012510.D  
 Injection Date: 25-Jan-2020 14:49:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-3 Lab Sample ID: 180-101459-3  
 Client ID: HD-COD-SW-13-0/1-0  
 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
8.25	83.00	306	0.131981
8.23	85.00	249	
8.25	129.00	349	

Reviewer: bowieh, 25-Jan-2020 15:18:28

Audit Action: Marked Compound Undetected

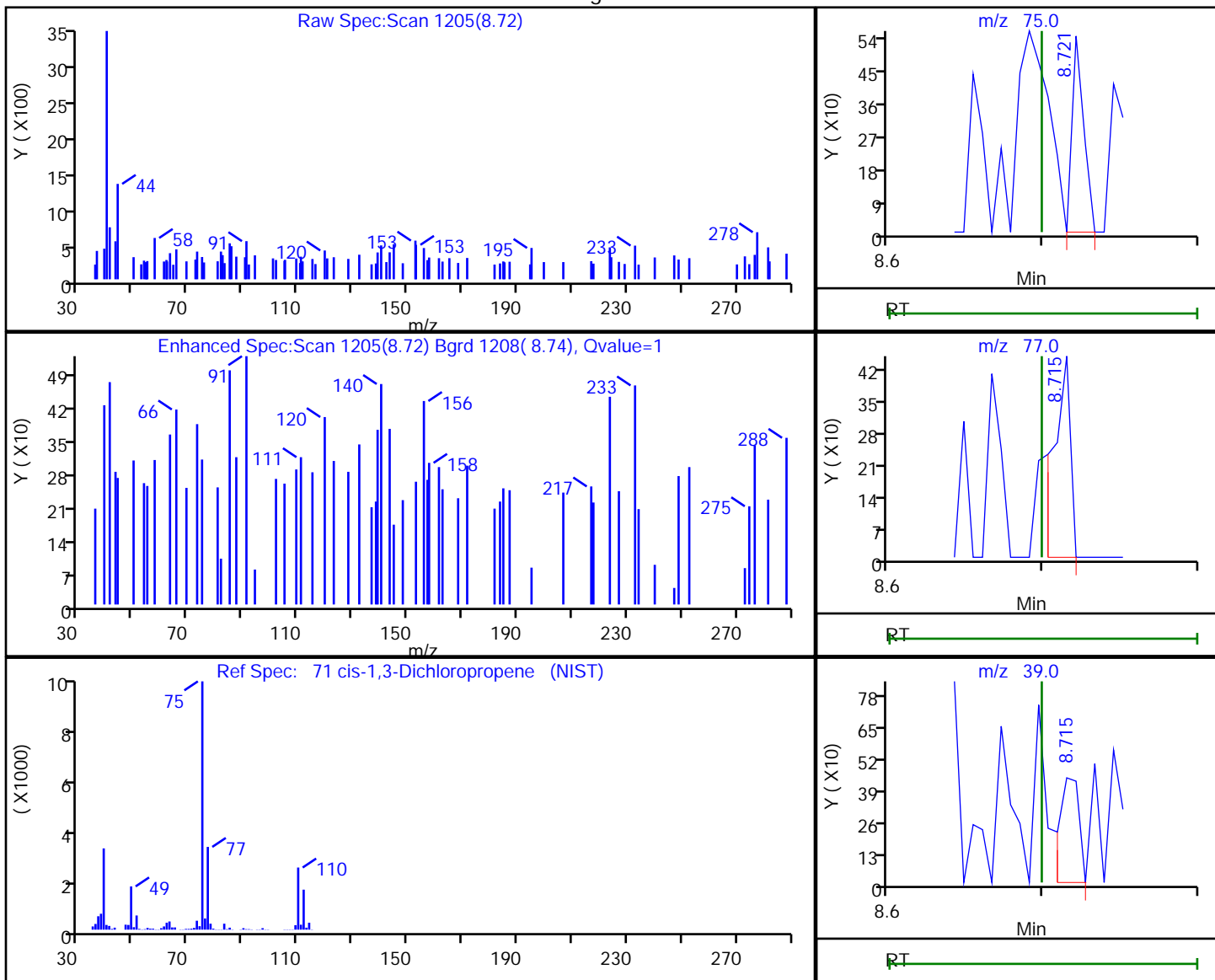
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012510.D  
 Injection Date: 25-Jan-2020 14:49:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-3 Lab Sample ID: 180-101459-3  
 Client ID: HD-COD-SW-13-0/1-0  
 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
8.72	75.00	284	0.094721
8.72	77.00	338	
8.72	39.00	389	

Reviewer: bowieh, 25-Jan-2020 15:18:29

Audit Action: Marked Compound Undetected

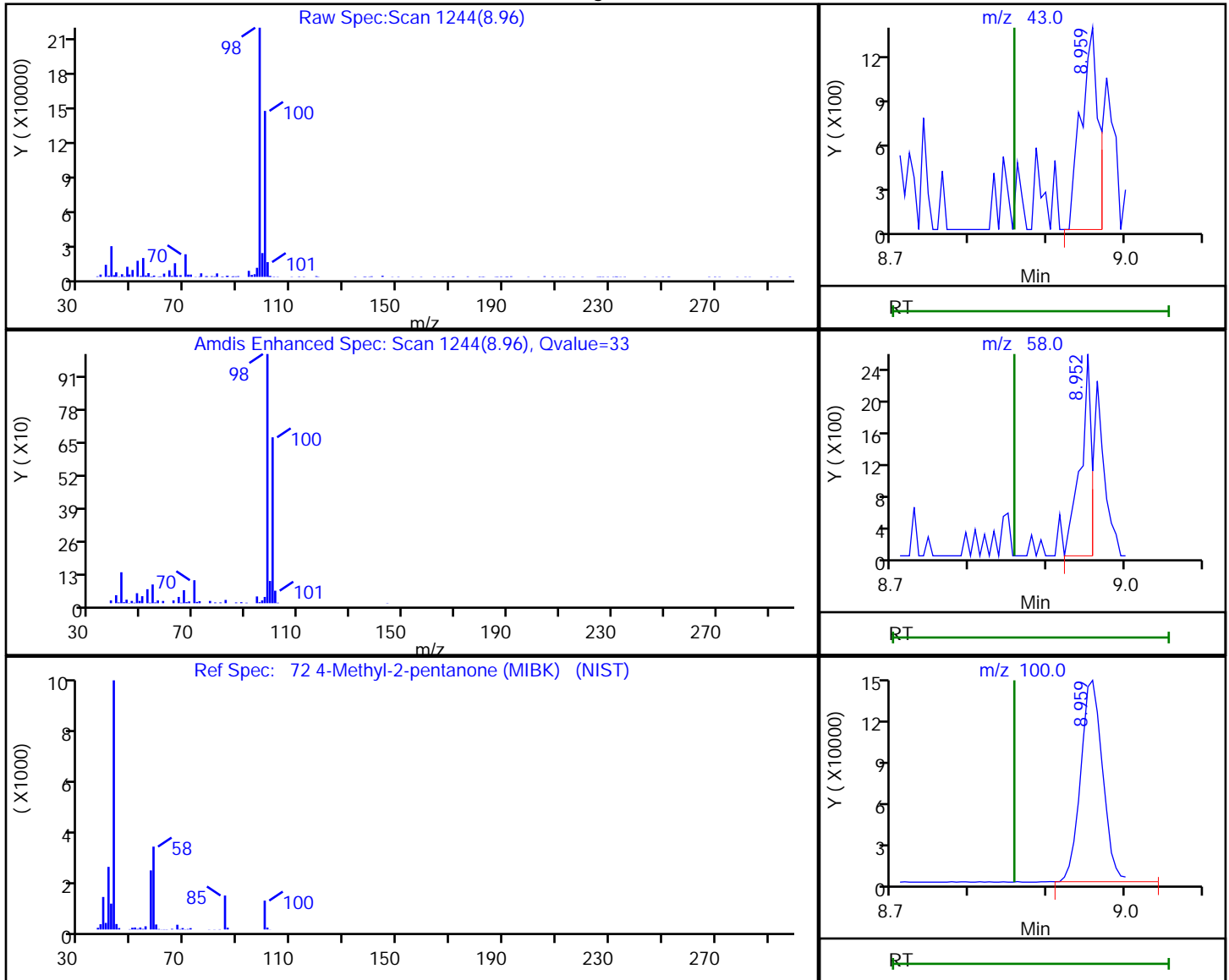
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012510.D  
 Injection Date: 25-Jan-2020 14:49:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-3 Lab Sample ID: 180-101459-3  
 Client ID: HD-COD-SW-13-0/1-0  
 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
8.96	43.00	2152	0.950303
8.95	58.00	2525	
8.96	100.00	280298	

Reviewer: bowieh, 25-Jan-2020 15:18:30

Audit Action: Marked Compound Undetected

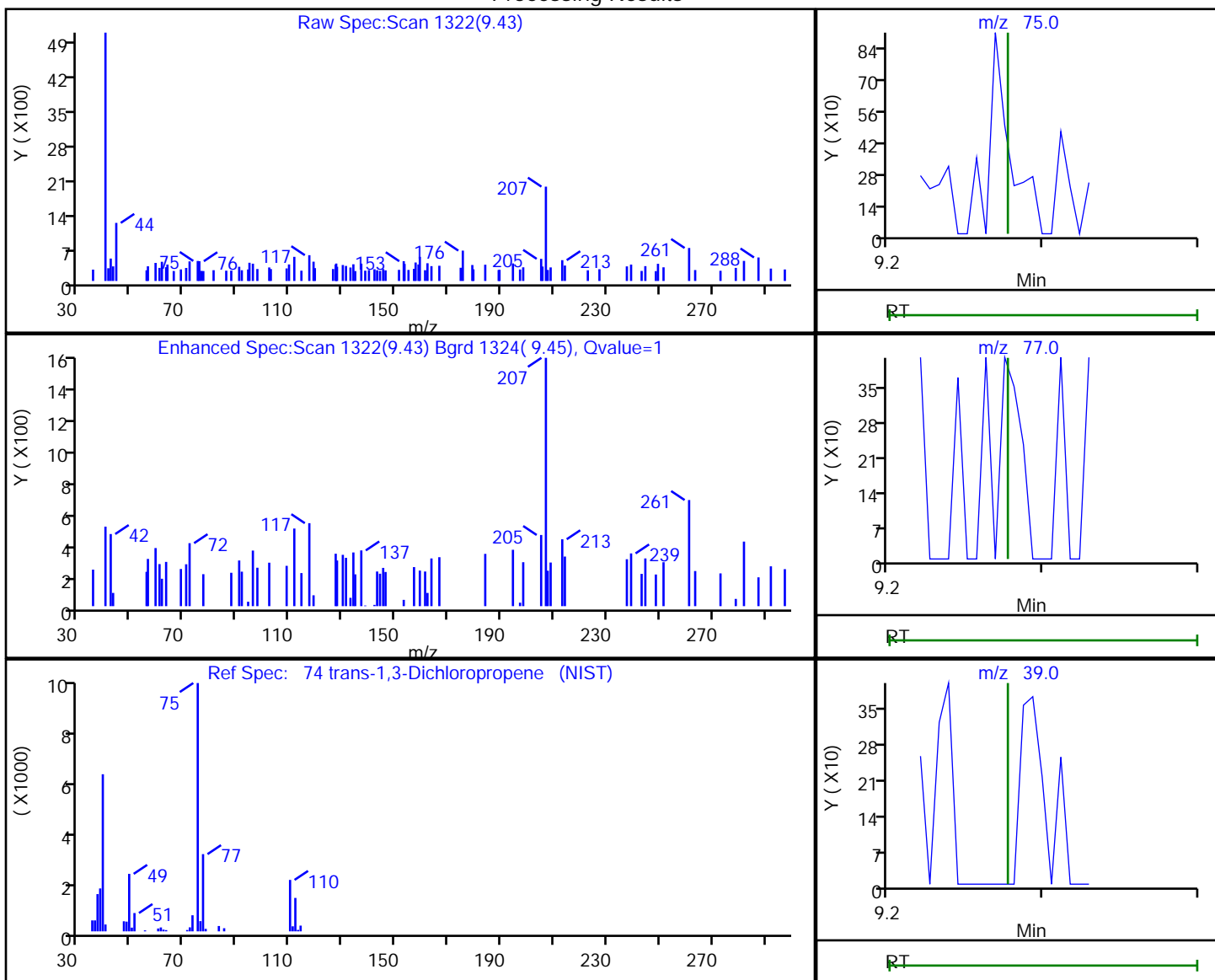
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Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012510.D  
 Injection Date: 25-Jan-2020 14:49:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-3 Lab Sample ID: 180-101459-3  
 Client ID: HD-COD-SW-13-0/1-0  
 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
9.43	75.00	477	0.181267
9.43	77.00	74	
9.44	39.00	378	

Reviewer: bowieh, 25-Jan-2020 15:18:33

Audit Action: Marked Compound Undetected

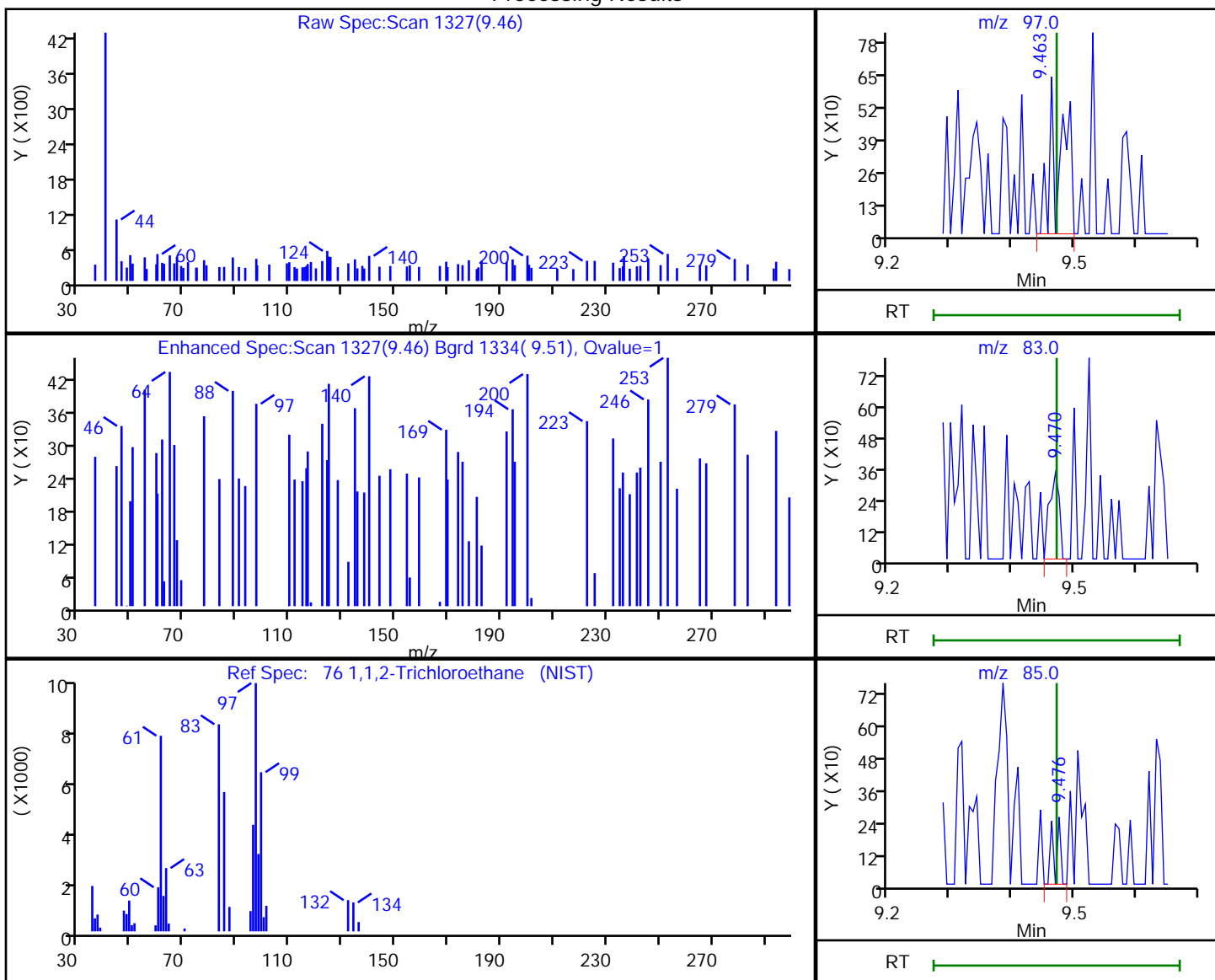
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012510.D  
 Injection Date: 25-Jan-2020 14:49:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-3 Lab Sample ID: 180-101459-3  
 Client ID: HD-COD-SW-13-0/1-0  
 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
9.46	97.00	933	0.426067
9.47	83.00	374	
9.48	85.00	179	

Reviewer: bowieh, 25-Jan-2020 15:18:35

Audit Action: Marked Compound Undetected

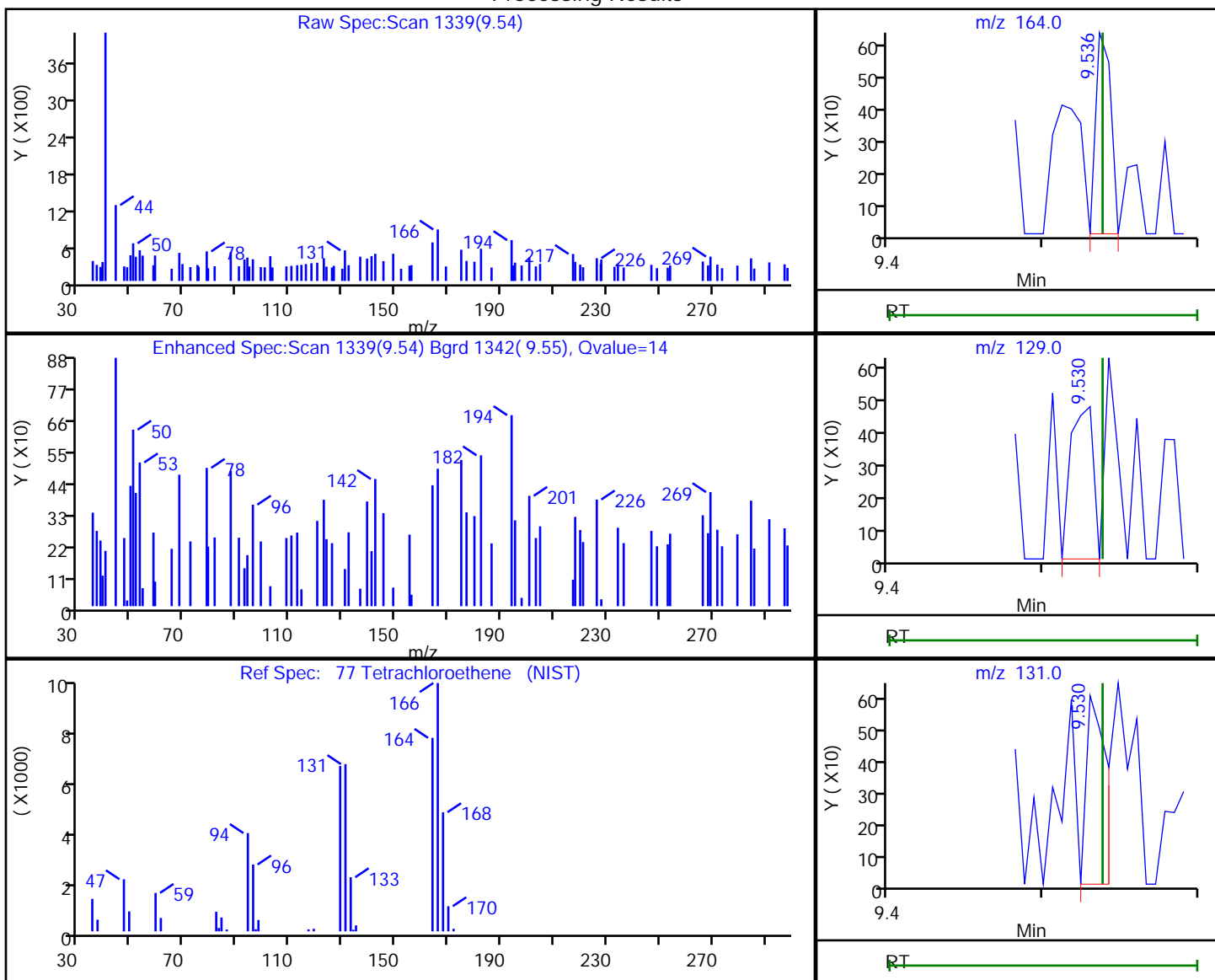
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012510.D  
 Injection Date: 25-Jan-2020 14:49:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-3 Lab Sample ID: 180-101459-3  
 Client ID: HD-COD-SW-13-0/1-0  
 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
9.54	164.00	428	0.143932
9.53	129.00	480	
9.53	131.00	543	

Reviewer: bowieh, 25-Jan-2020 15:18:36

Audit Action: Marked Compound Undetected

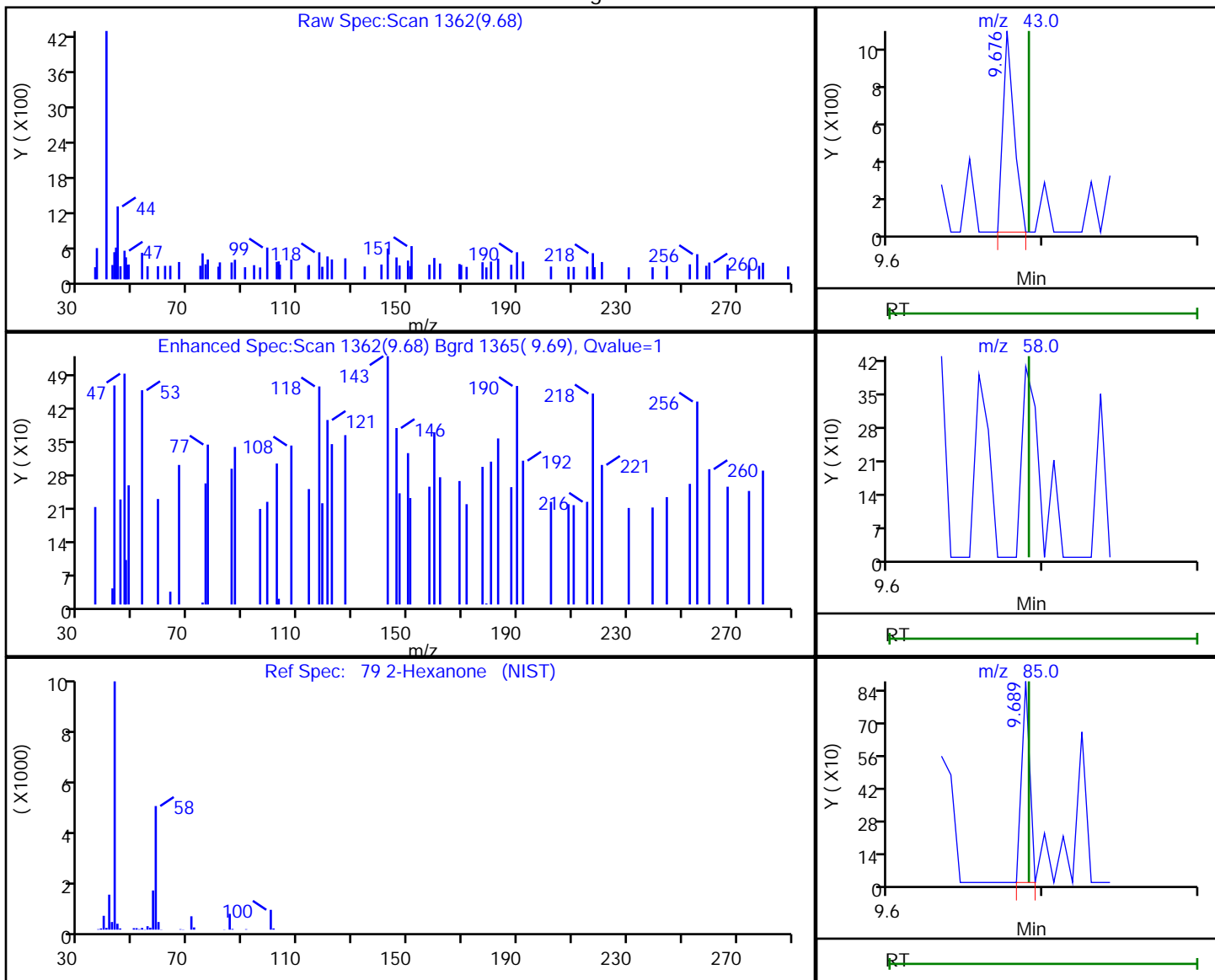
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012510.D  
 Injection Date: 25-Jan-2020 14:49:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-3 Lab Sample ID: 180-101459-3  
 Client ID: HD-COD-SW-13-0/1-0  
 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
9.68	43.00	501	0.256832
9.69	58.00	0	
9.69	85.00	318	

Reviewer: bowieh, 25-Jan-2020 15:18:38

Audit Action: Marked Compound Undetected

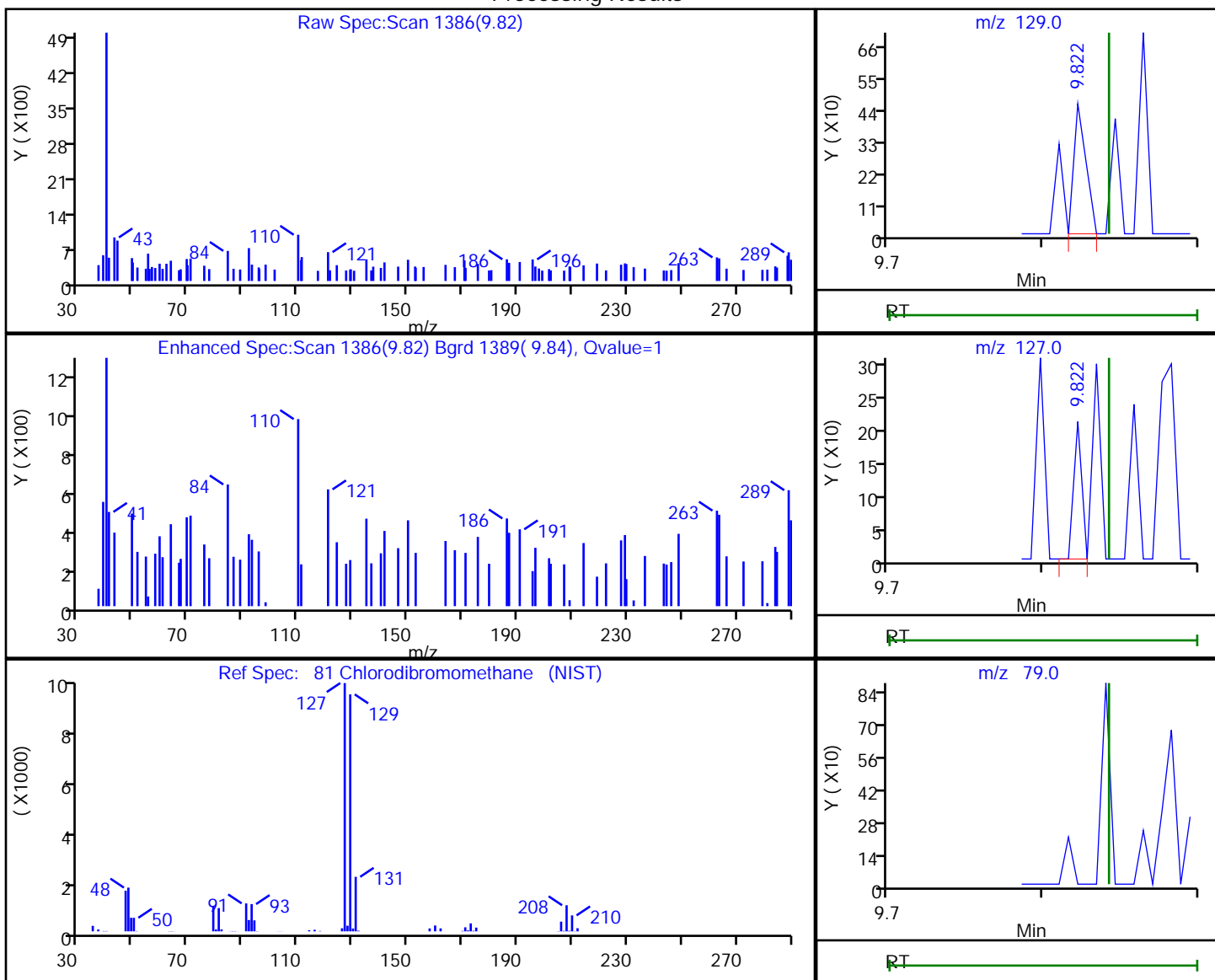
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012510.D  
 Injection Date: 25-Jan-2020 14:49:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-3 Lab Sample ID: 180-101459-3  
 Client ID: HD-COD-SW-13-0/1-0  
 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
9.82	129.00	248	0.134093
9.82	127.00	76	
9.84	79.00	0	

Reviewer: bowieh, 25-Jan-2020 15:18:39

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

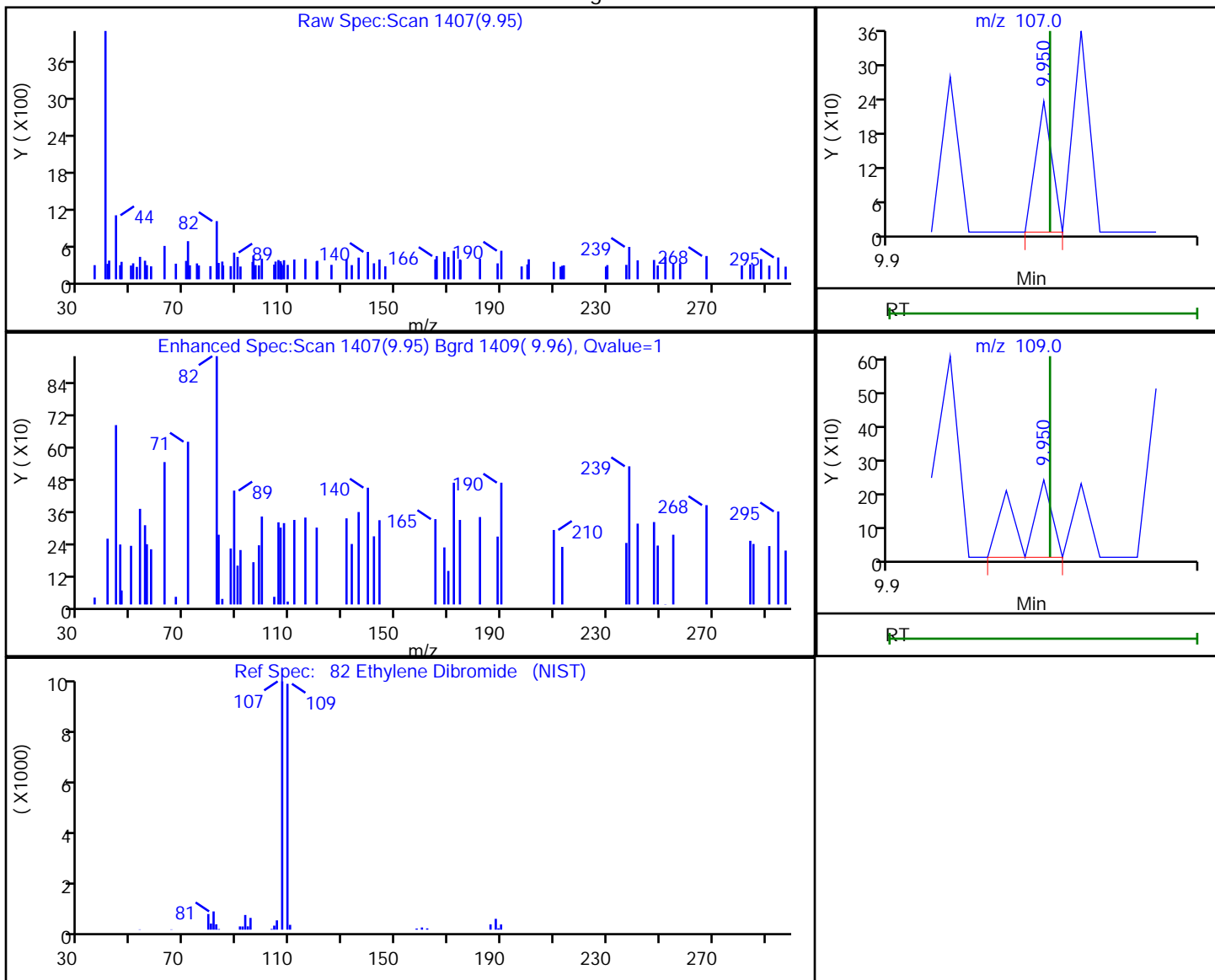


Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012510.D  
Injection Date: 25-Jan-2020 14:49:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-3 Lab Sample ID: 180-101459-3  
Client ID: HD-COD-SW-13-0/1-0  
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
9.95	107.00	84	0.038868
9.95	109.00	158	

Reviewer: bowieh, 25-Jan-2020 15:18:40

Audit Action: Marked Compound Undetected

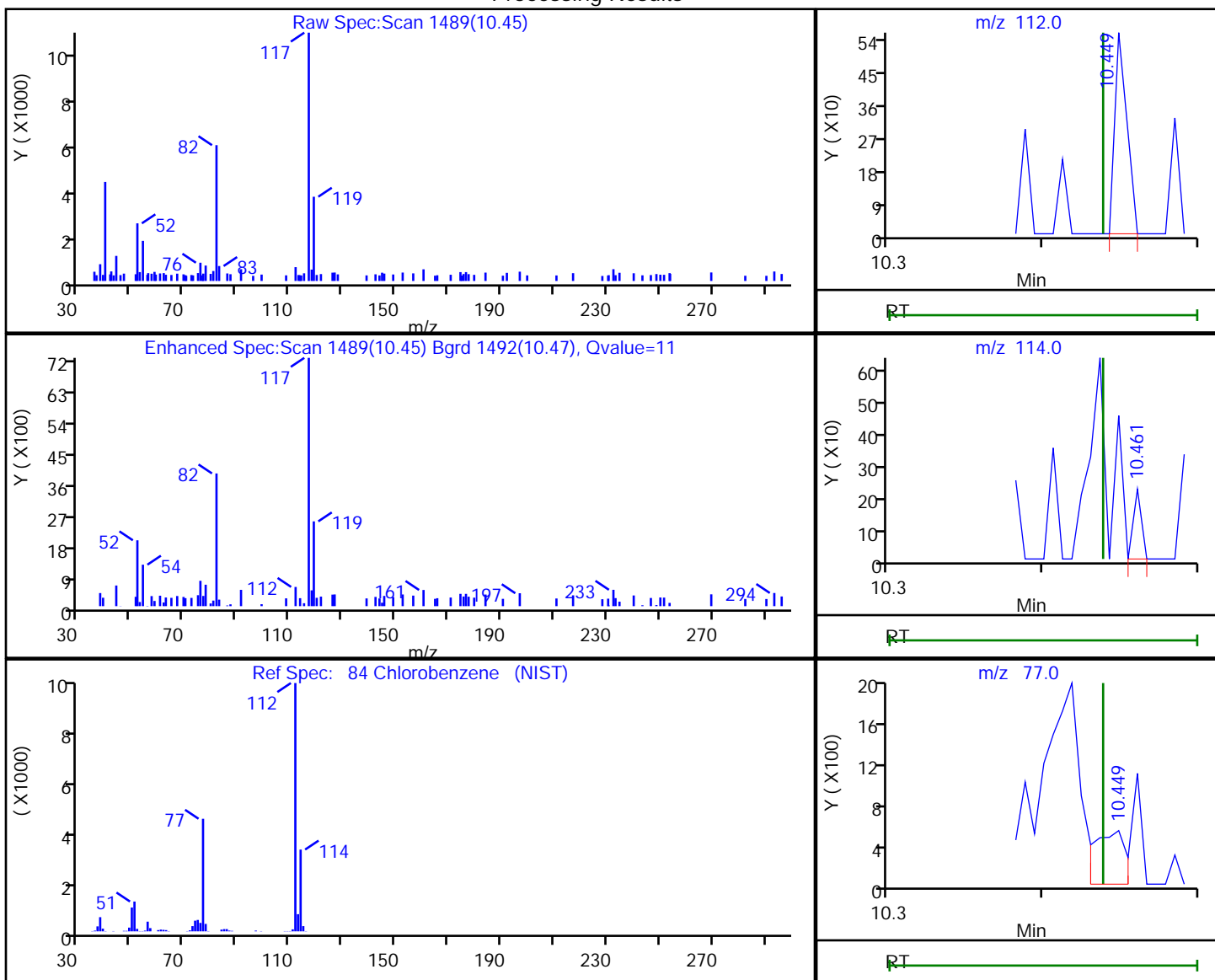
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012510.D  
 Injection Date: 25-Jan-2020 14:49:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-3 Lab Sample ID: 180-101459-3  
 Client ID: HD-COD-SW-13-0/1-0  
 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
10.45	112.00	306	0.038139
10.46	114.00	80	
10.45	77.00	764	

Reviewer: bowieh, 25-Jan-2020 15:18:41

Audit Action: Marked Compound Undetected

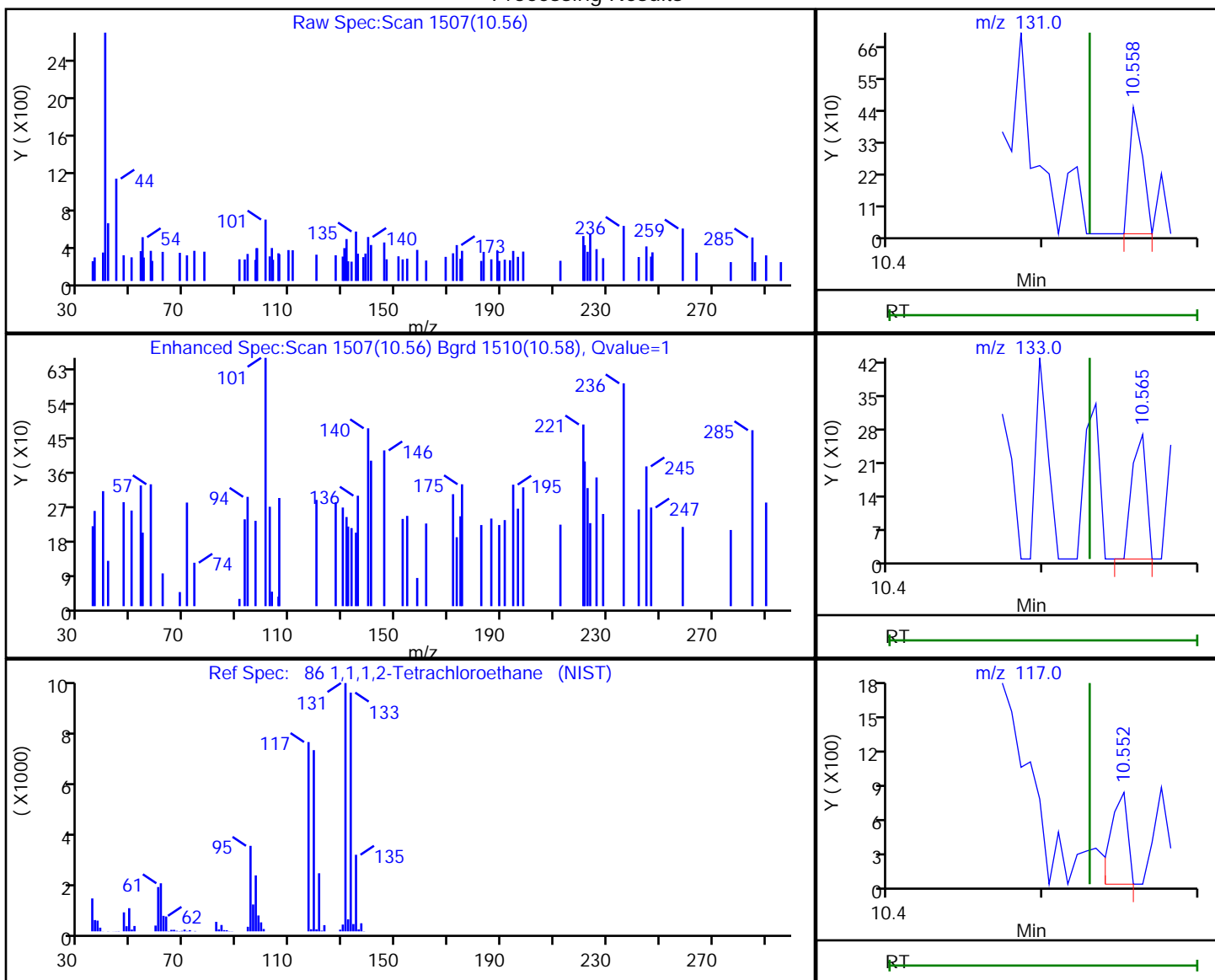
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012510.D  
 Injection Date: 25-Jan-2020 14:49:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-3 Lab Sample ID: 180-101459-3  
 Client ID: HD-COD-SW-13-0/1-0  
 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
10.56	131.00	261	0.110744
10.56	133.00	172	
10.55	117.00	592	

Reviewer: bowieh, 25-Jan-2020 15:18:43

Audit Action: Marked Compound Undetected

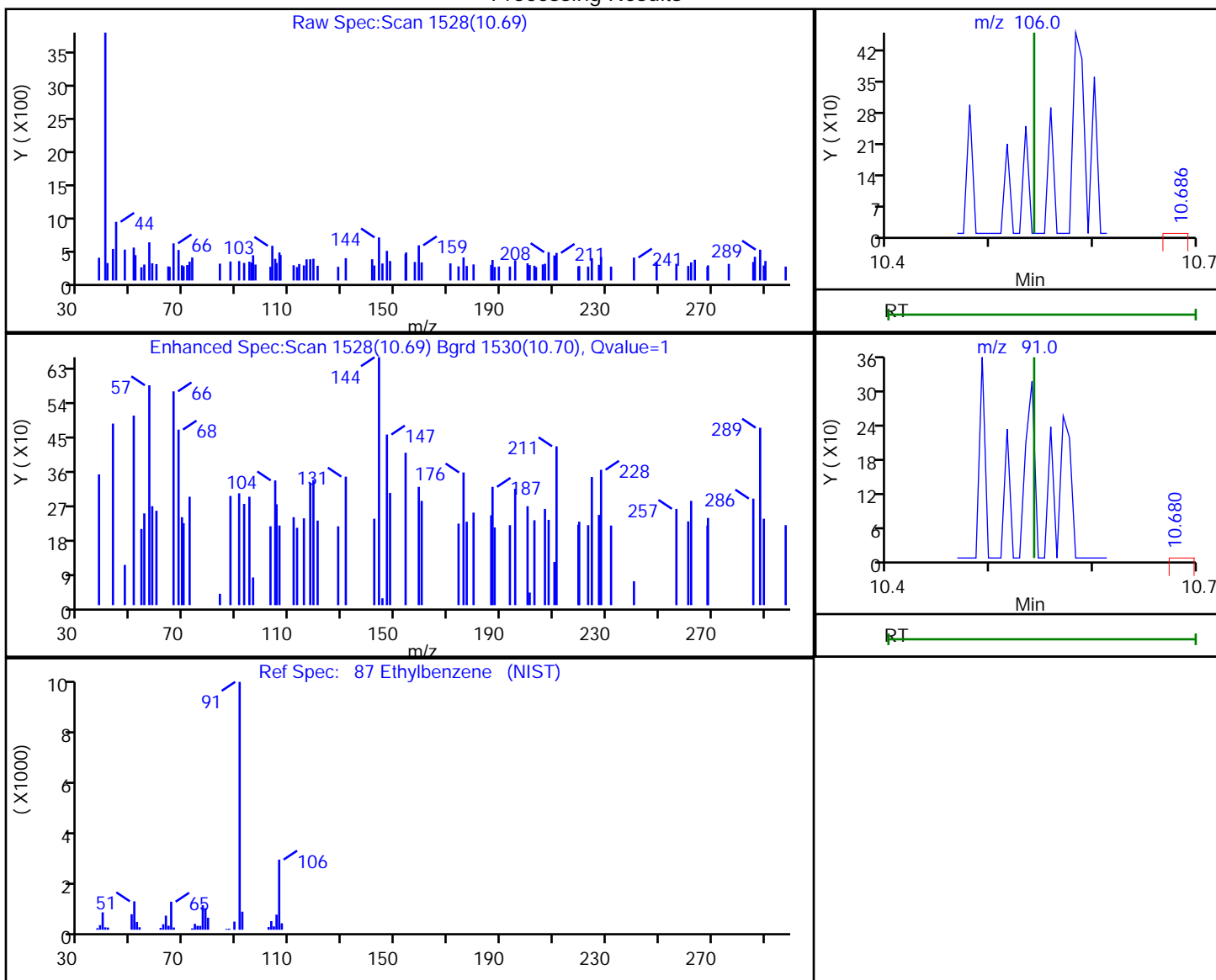
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012510.D  
 Injection Date: 25-Jan-2020 14:49:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-3 Lab Sample ID: 180-101459-3  
 Client ID: HD-COD-SW-13-0/1-0  
 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
10.69	106.00	531	0.115648
10.68	91.00	411	

Reviewer: bowieh, 25-Jan-2020 15:18:44

Audit Action: Marked Compound Undetected

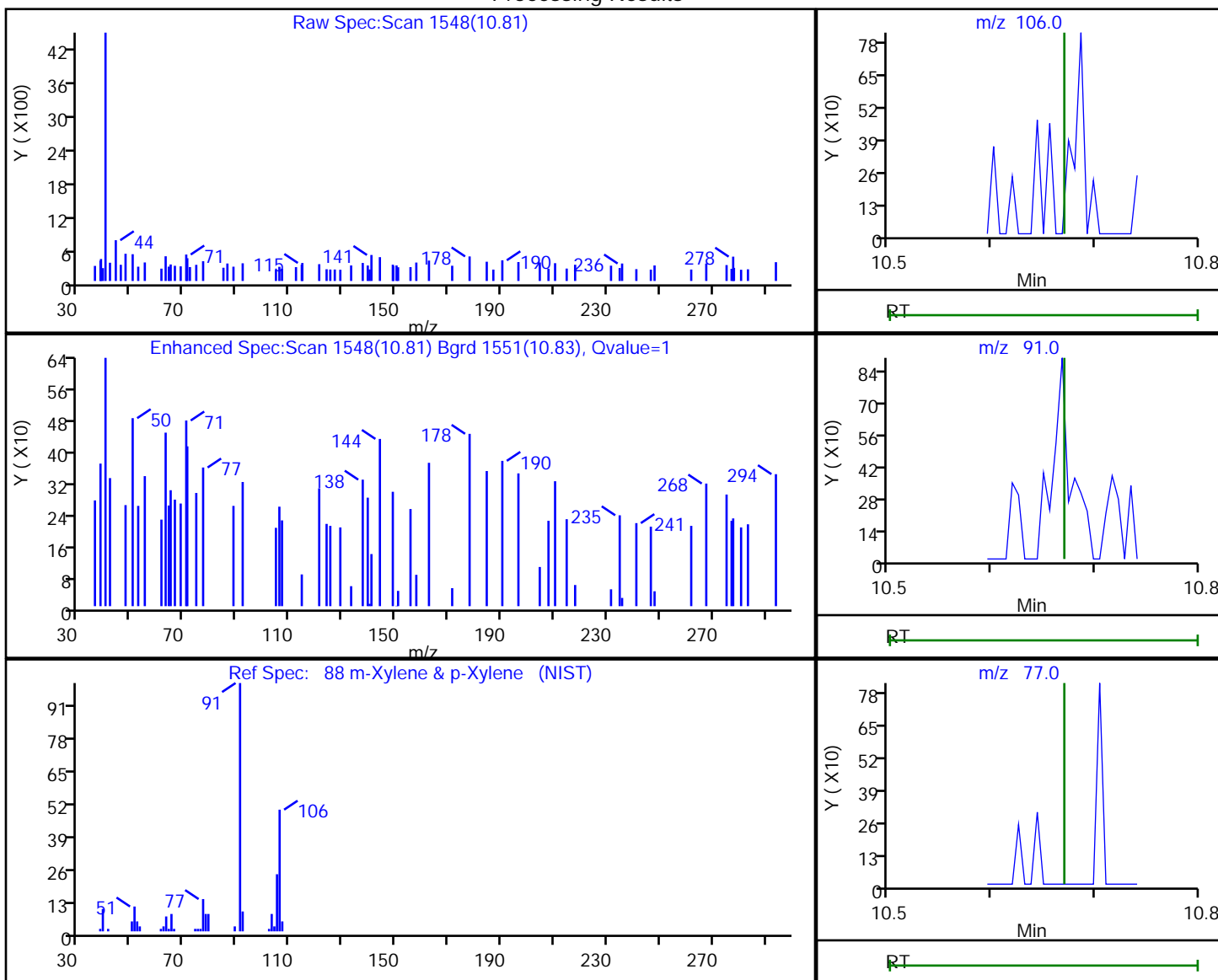
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012510.D  
 Injection Date: 25-Jan-2020 14:49:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-3 Lab Sample ID: 180-101459-3  
 Client ID: HD-COD-SW-13-0/1-0  
 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
10.81	106.00	181	0.032885
10.80	91.00	214	
10.81	77.00	204	

Reviewer: bowieh, 25-Jan-2020 15:18:45

Audit Action: Marked Compound Undetected

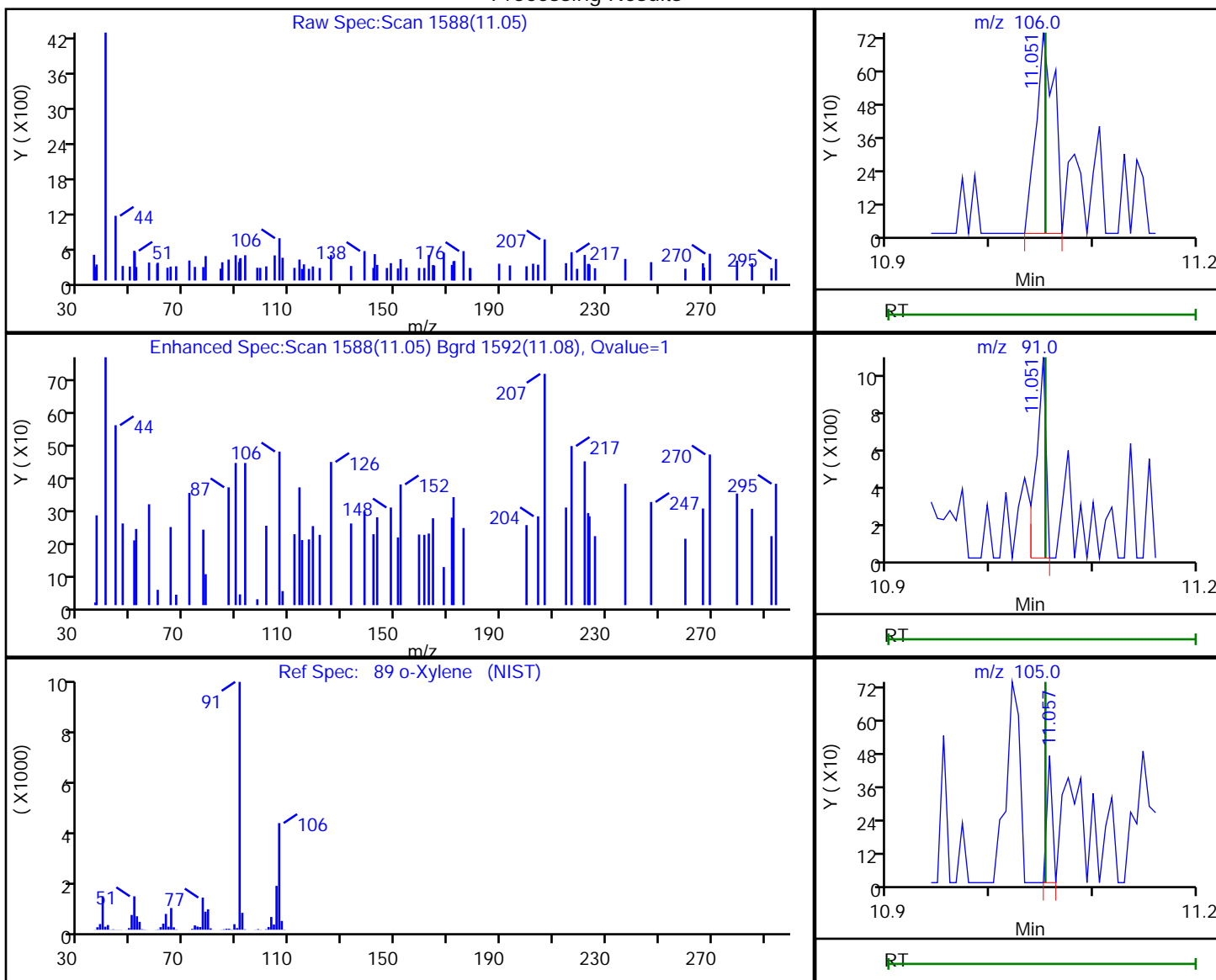
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012510.D  
 Injection Date: 25-Jan-2020 14:49:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-3 Lab Sample ID: 180-101459-3  
 Client ID: HD-COD-SW-13-0/1-0  
 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
11.05	106.00	895	0.170901
11.05	91.00	697	
11.06	105.00	170	

Reviewer: bowieh, 25-Jan-2020 15:18:46

Audit Action: Marked Compound Undetected

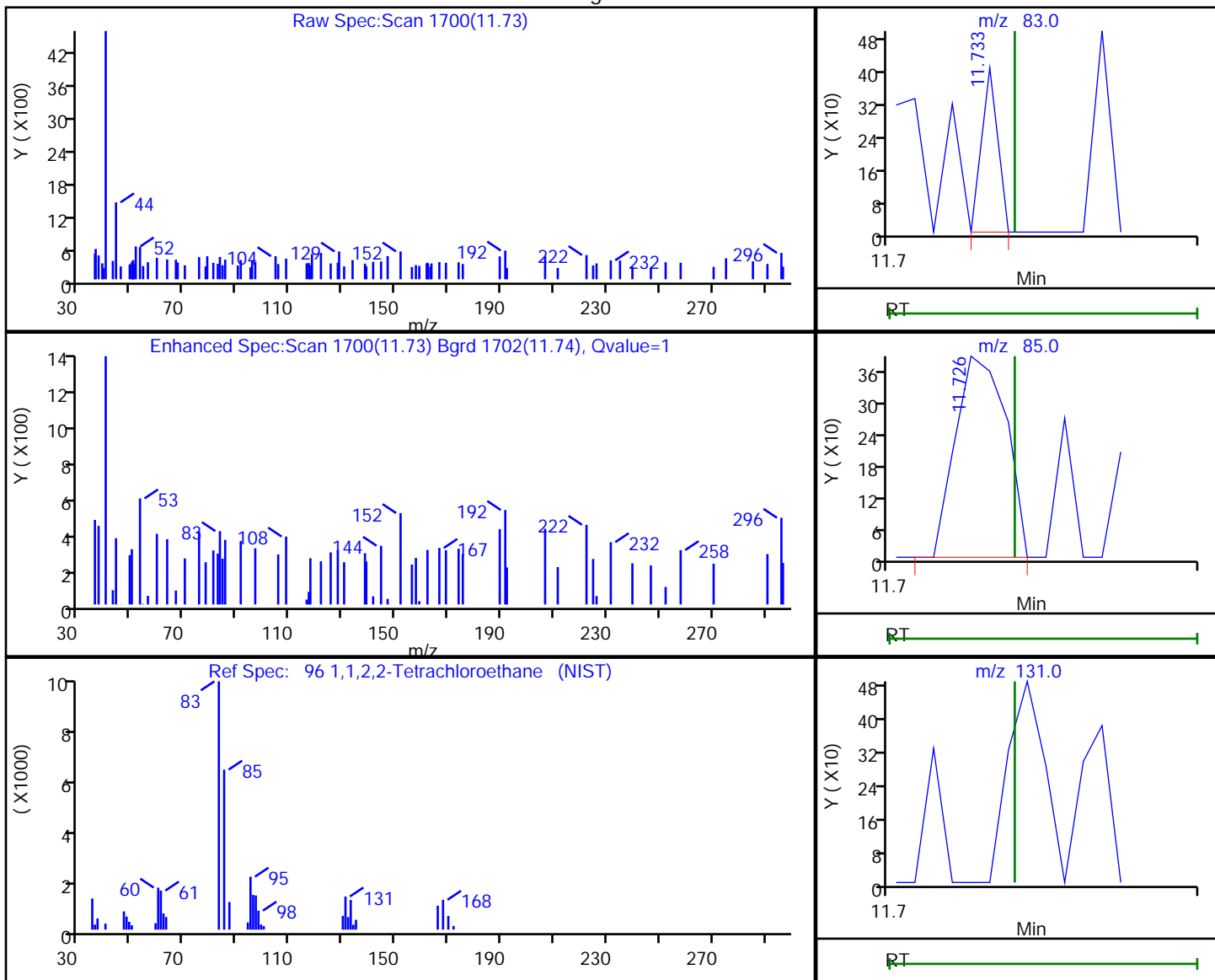
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012510.D  
 Injection Date: 25-Jan-2020 14:49:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-3 Lab Sample ID: 180-101459-3  
 Client ID: HD-COD-SW-13-0/1-0  
 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
11.73	83.00	148	0.063408
11.73	85.00	440	
11.74	131.00	0	

Reviewer: bowieh, 25-Jan-2020 15:18:48

Audit Action: Marked Compound Undetected

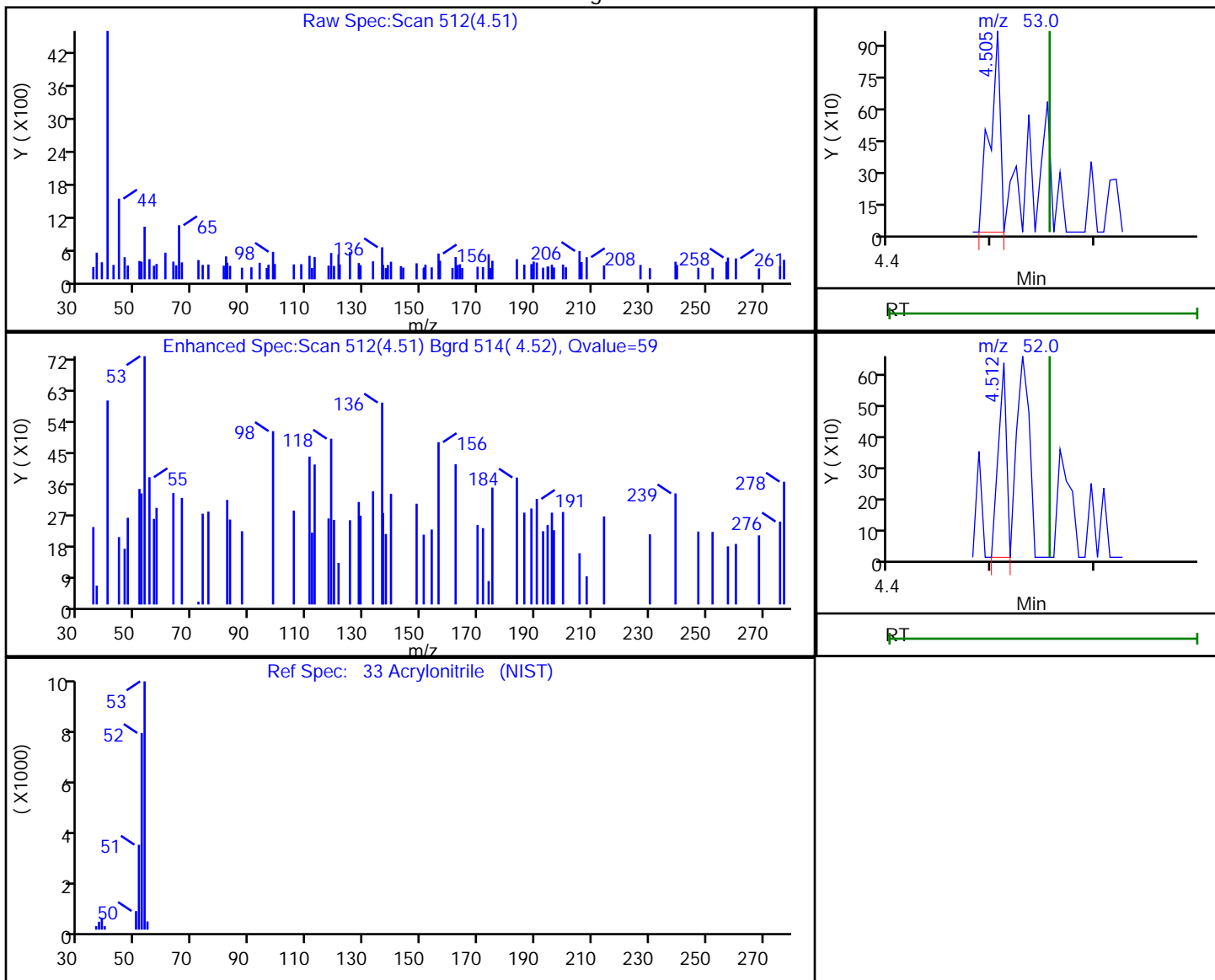
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012510.D  
 Injection Date: 25-Jan-2020 14:49:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-3 Lab Sample ID: 180-101459-3  
 Client ID: HD-COD-SW-13-0/1-0  
 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
4.51	53.00	675	0.700849
4.51	52.00	350	

Reviewer: bowieh, 25-Jan-2020 15:17:59

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.: 180-101459-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: HD-COD-SW-16-0/1-0 Lab Sample ID: 180-101459-4  
 Matrix: Water Lab File ID: 6012511.D  
 Analysis Method: EPA 8260C Date Collected: 01/23/2020 11:00  
 Sample wt/vol: 5 (mL) Date Analyzed: 01/25/2020 15:16  
 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.: 304996 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	ND	^c	1.0	0.88
74-83-9	Bromomethane	ND	^c	1.0	0.89
75-00-3	Chloroethane	ND	^c	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.: 180-101459-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: HD-COD-SW-16-0/1-0 Lab Sample ID: 180-101459-4  
 Matrix: Water Lab File ID: 6012511.D  
 Analysis Method: EPA 8260C Date Collected: 01/23/2020 11:00  
 Sample wt/vol: 5 (mL) Date Analyzed: 01/25/2020 15:16  
 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.: 304996 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)	96		70-150
2037-26-5	Toluene-d8 (Surr)	83		78-128
460-00-4	4-Bromofluorobenzene (Surr)	66		64-123
1868-53-7	Dibromofluoromethane (Surr)	89		75-147

Eurofins TestAmerica, Pittsburgh  
Target Compound Quantitation Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012511.D  
 Lims ID: 180-101459-B-4  
 Client ID: HD-COD-SW-16-0/1-0  
 Sample Type: Client  
 Inject. Date: 25-Jan-2020 15:16:30 ALS Bottle#: 5 Worklist Smp#: 11  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 180-0030512-011  
 Misc. Info.: 180-101459-b-4  
 Operator ID: 433269 Instrument ID: CHHP6  
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\MSVOA\_LL\_CHHP6.m  
 Limit Group: VOA 8260C\_D ICAL  
 Last Update: 25-Jan-2020 15:45:07 Calib Date: 31-Dec-2019 16:03:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123111.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0321

First Level Reviewer: bowieh

Date: 25-Jan-2020 15:45:07

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.310	4.319	-0.009	89	131153	1000.0	
* 2 Fluorobenzene (IS)	96	7.309	7.306	0.003	99	504799	50.0	
* 3 Chlorobenzene-d5	119	10.411	10.408	0.003	83	127265	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.760	12.757	0.003	93	175224	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.579	6.582	-0.003	93	100692	44.3	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.956	6.953	0.003	98	113292	47.9	
\$ 7 Toluene-d8 (Surr)	98	8.957	8.954	0.003	93	388967	41.3	
\$ 8 4-Bromofluorobenzene (Surr	95	11.598	11.595	0.003	0	111505	33.1	
12 Chloromethane	50	1.834	1.837	-0.003	38	6756	1.76	M
13 Vinyl chloride	62		1.952				ND	U
15 Bromomethane	94		2.287				ND	U
16 Chloroethane	64		2.421				ND	U
22 1,1-Dichloroethene	96		3.370				ND	
24 Acetone	43	3.470	3.473	-0.003	79	10912	8.86	a
26 Carbon disulfide	76		3.662				ND	U
31 Methylene Chloride	84		4.155				ND	
33 Acrylonitrile	53		4.556				ND	U
34 trans-1,2-Dichloroethene	96		4.574				ND	U
35 Methyl tert-butyl ether	73		4.611				ND	U
37 1,1-Dichloroethane	63		5.219				ND	
43 cis-1,2-Dichloroethene	96		5.967				ND	U
44 2-Butanone (MEK)	43	5.995	5.980	0.015	29	4996	3.22	
48 Chlorobromomethane	128		6.247				ND	
50 Chloroform	83		6.393				ND	
51 1,1,1-Trichloroethane	97		6.558				ND	U
53 Carbon tetrachloride	117		6.722				ND	U
56 Benzene	78		6.959				ND	U
57 1,2-Dichloroethane	62		7.038				ND	U
61 Trichloroethene	130	7.698	7.689	0.009	21	2584	0.7990	
64 1,2-Dichloropropane	63		7.963				ND	U
68 Dichlorobromomethane	83		8.249				ND	U

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
71 cis-1,3-Dichloropropene	75		8.699				ND	U
72 4-Methyl-2-pentanone (MIBK)	43		8.857				ND	U
73 Toluene	91	9.036	9.021	0.015	49	3224	0.2688	M
74 trans-1,3-Dichloropropene	75		9.277				ND	U
76 1,1,2-Trichloroethane	97		9.472				ND	U
77 Tetrachloroethene	164		9.538				ND	U
79 2-Hexanone	43		9.691				ND	U
81 Chlorodibromomethane	129		9.843				ND	U
82 Ethylene Dibromide	107		9.952				ND	U
84 Chlorobenzene	112		10.439				ND	
86 1,1,1,2-Tetrachloroethane	131		10.530				ND	U
87 Ethylbenzene	106		10.542				ND	U
88 m-Xylene & p-Xylene	106		10.670				ND	U
89 o-Xylene	106		11.053				ND	U
90 Styrene	104		11.078				ND	U
91 Bromoform	173		11.254				ND	
96 1,1,2,2-Tetrachloroethane	83		11.741				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:

VOA8260INT\_00103

Amount Added: 2.00

Units: uL

Run Reagent

VOA8260SURR\_00103

Amount Added: 2.00

Units: uL

Run Reagent

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012511.D

Injection Date: 25-Jan-2020 15:16:30

Instrument ID: CHHP6

Operator ID: 433269

Lims ID: 180-101459-B-4

Lab Sample ID: 180-101459-4

Worklist Smp#: 11

Client ID: HD-COD-SW-16-0/1-0

Purge Vol: 5.000 mL

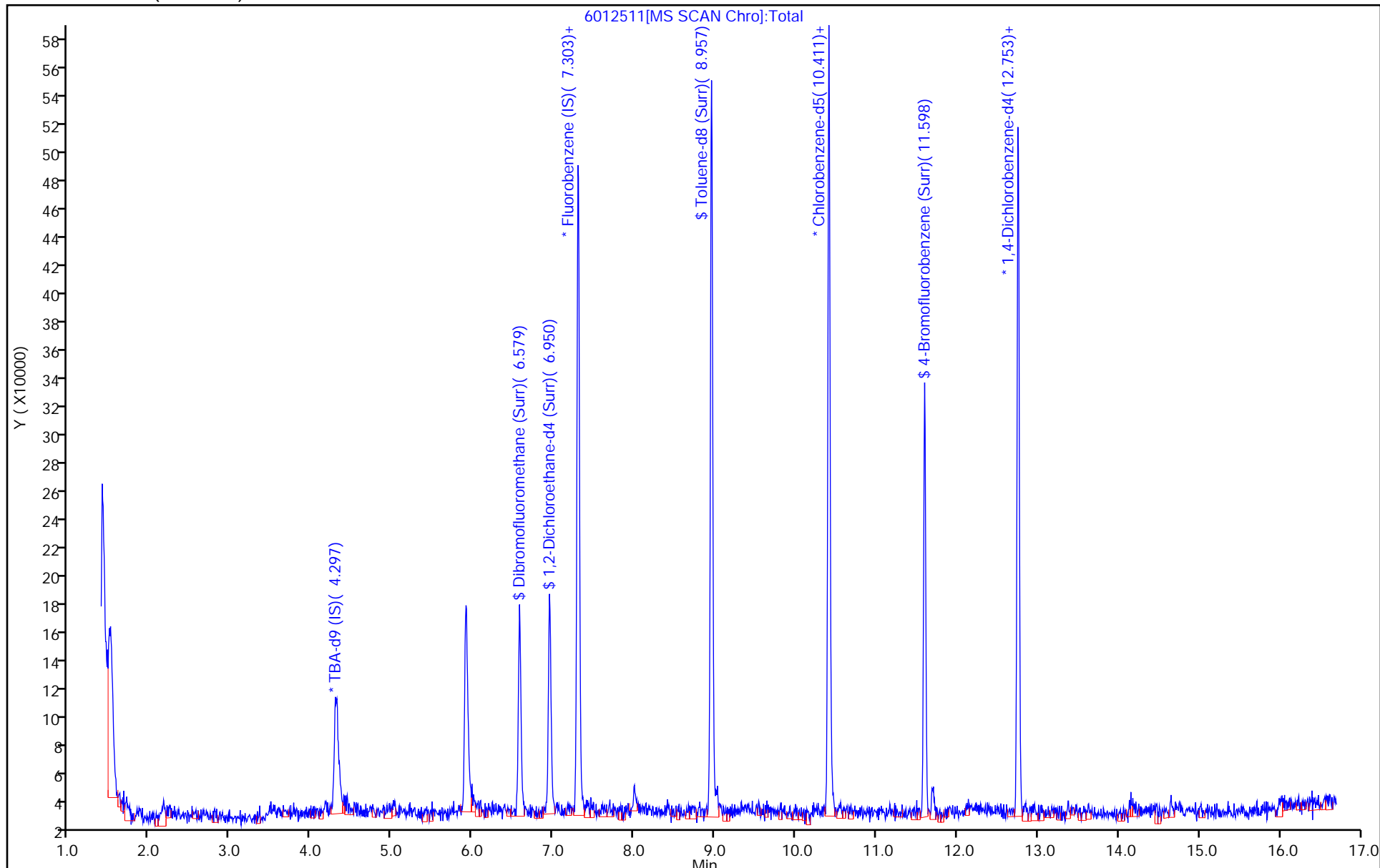
Dil. Factor: 1.0000

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\20200125-30512.b\6012511.D  
 Lims ID: 180-101459-B-4  
 Client ID: HD-COD-SW-16-0/1-0  
 Sample Type: Client  
 Inject. Date: 25-Jan-2020 15:16:30 ALS Bottle#: 5 Worklist Smp#: 11  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 180-0030512-011  
 Misc. Info.: 180-101459-b-4  
 Operator ID: 433269 Instrument ID: CHHP6  
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\MSVOA\_LL\_CHHP6.m  
 Limit Group: VOA 8260C\_D ICAL  
 Last Update: 25-Jan-2020 15:45:07 Calib Date: 31-Dec-2019 16:03:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123111.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0321

First Level Reviewer: bowieh Date: 25-Jan-2020 15:45:07

Compound	Amount Added	Amount Recovered	% Rec.
\$ 5 Dibromofluoromethane (Surr)	50.0	44.3	88.53
\$ 6 1,2-Dichloroethane-d4 (Surr)	50.0	47.9	95.72
\$ 7 Toluene-d8 (Surr)	50.0	41.3	82.52
\$ 8 4-Bromofluorobenzene (Surr)	50.0	33.1	66.23

Eurofins TestAmerica, Pittsburgh

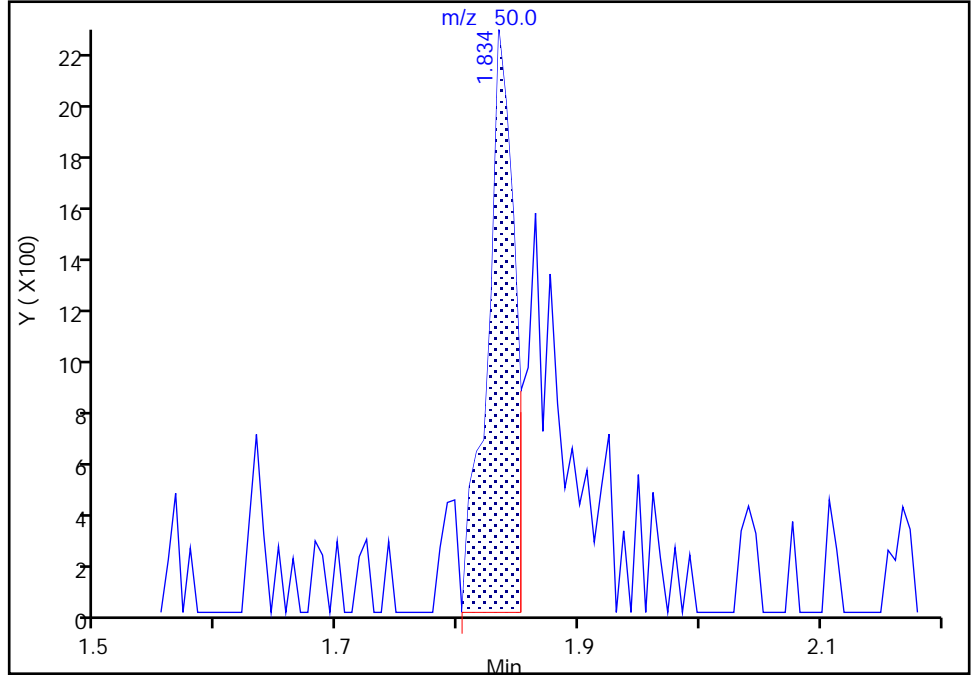
Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012511.D  
Injection Date: 25-Jan-2020 15:16:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-4 Lab Sample ID: 180-101459-4  
Client ID: HD-COD-SW-16-0/1-0  
Operator ID: 433269 ALS Bottle#: 5 Worklist Smp#: 11  
Purge Vol: 5.000 mL Dil. 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

Signal: 1

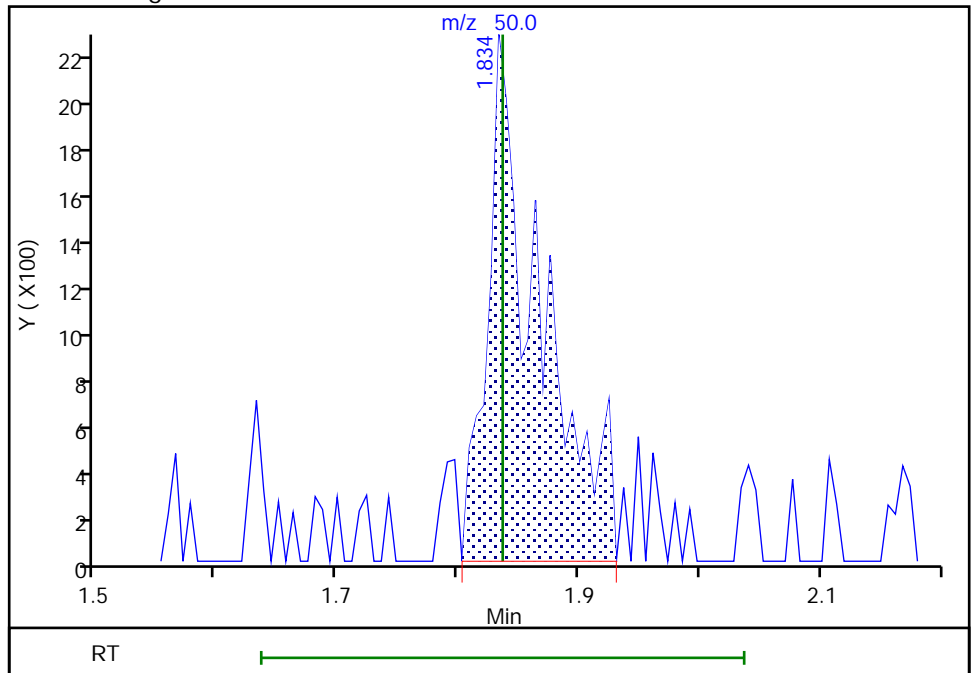
RT: 1.83  
Area: 3522  
Amount: 0.915536  
Amount Units: ng

Processing Integration Results



RT: 1.83  
Area: 6756  
Amount: 1.756207  
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 25-Jan-2020 15:35:42  
Audit Action: Manually Integrated

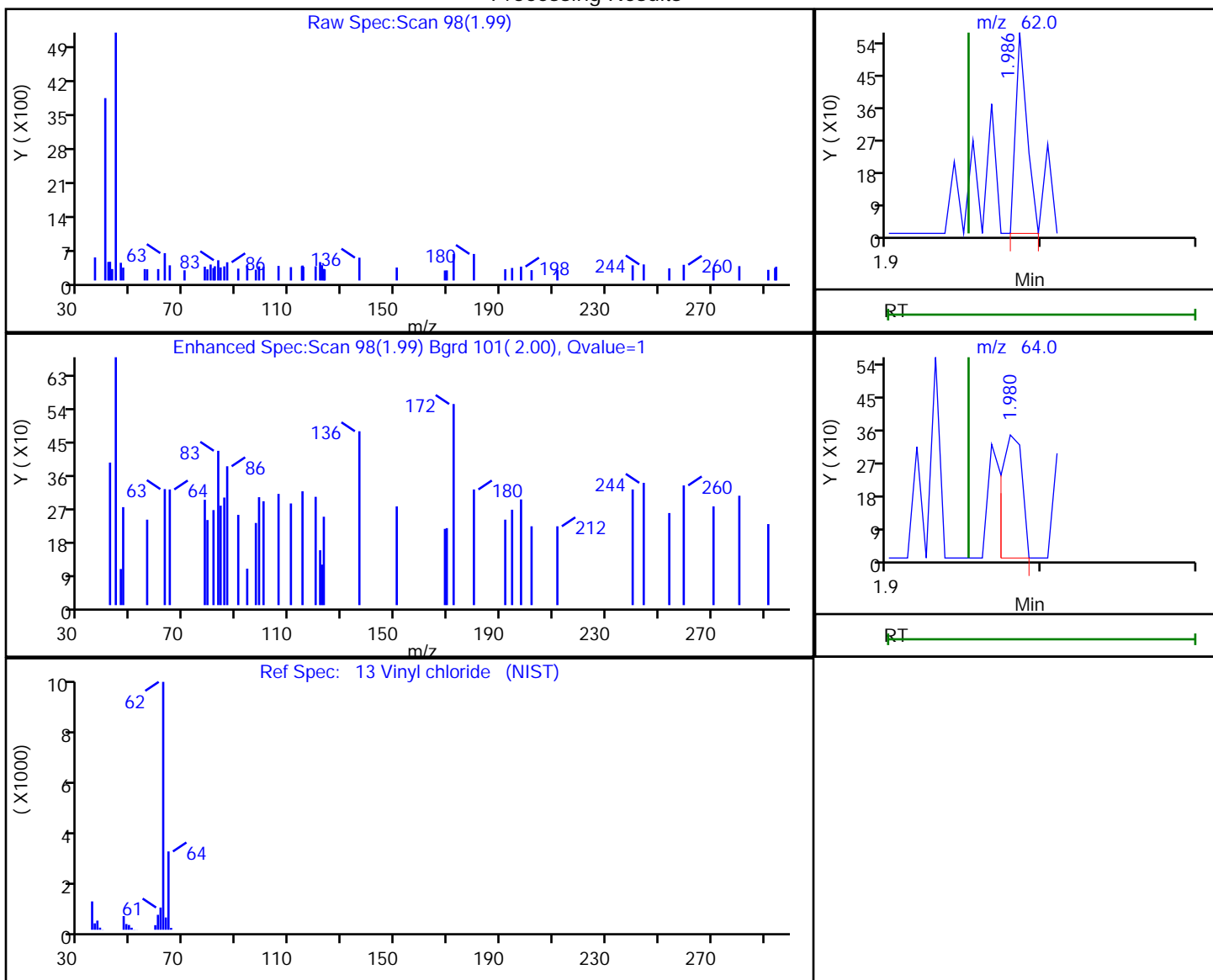
Audit Reason: Poor chromatography

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012511.D  
 Injection Date: 25-Jan-2020 15:16:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-4 Lab Sample ID: 180-101459-4  
 Client ID: HD-COD-SW-16-0/1-0  
 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
1.99	62.00	289	0.087300
1.98	64.00	323	

Reviewer: bowieh, 25-Jan-2020 15:35:45

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

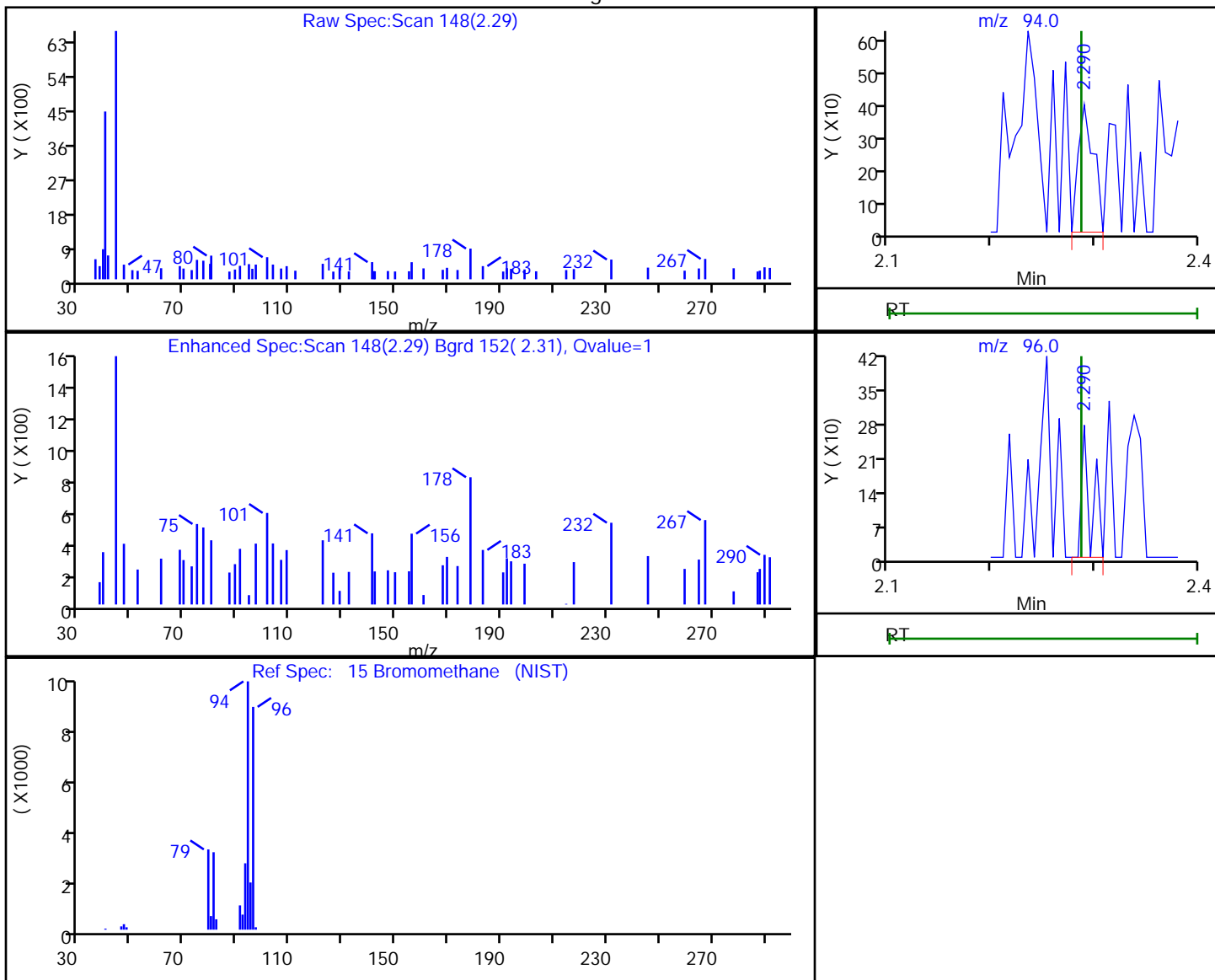


Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012511.D  
 Injection Date: 25-Jan-2020 15:16:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-4 Lab Sample ID: 180-101459-4  
 Client ID: HD-COD-SW-16-0/1-0  
 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
2.29	94.00	412	0.195071
2.29	96.00	174	

Reviewer: bowieh, 25-Jan-2020 15:35:46

Audit Action: Marked Compound Undetected

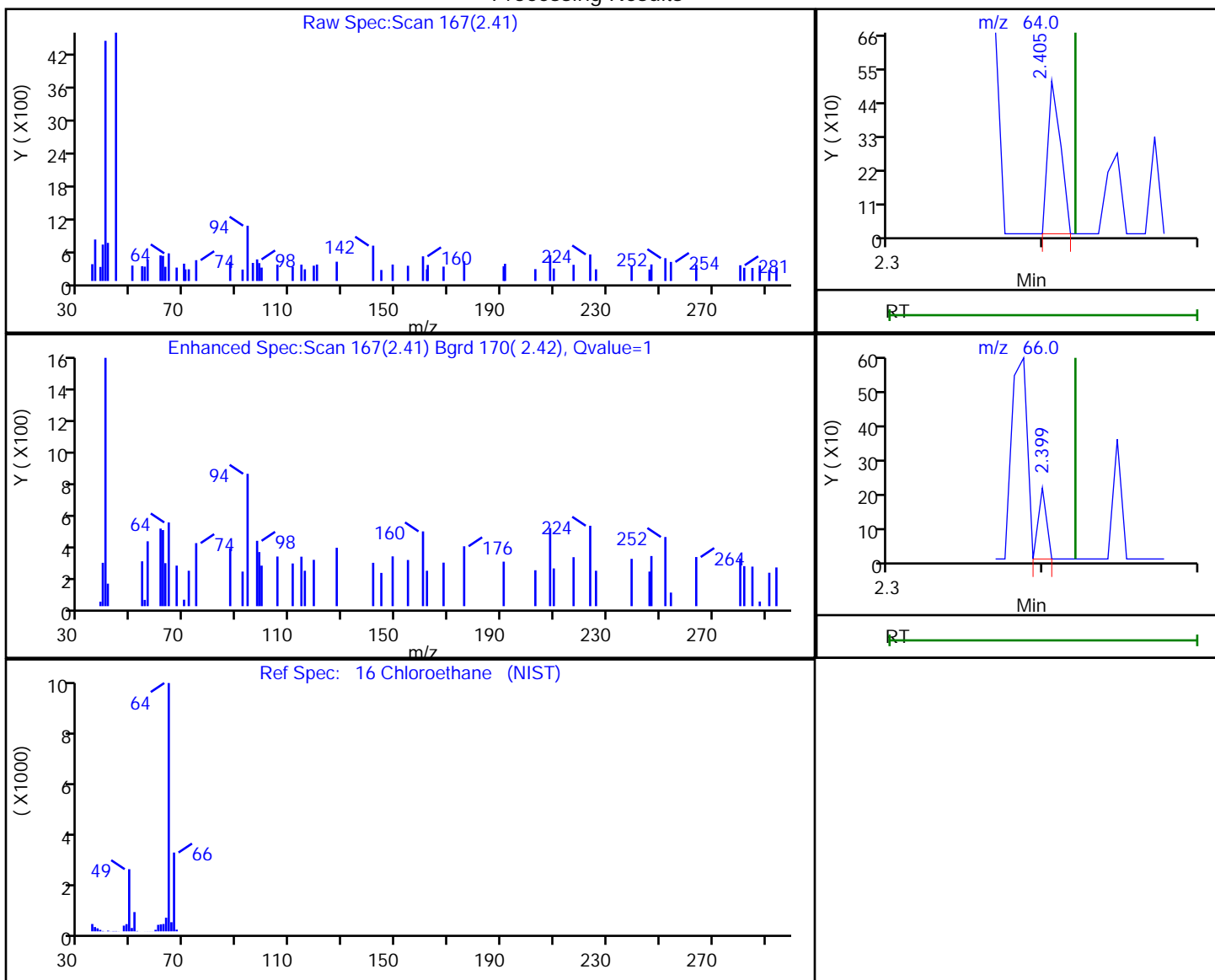
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012511.D  
 Injection Date: 25-Jan-2020 15:16:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-4 Lab Sample ID: 180-101459-4  
 Client ID: HD-COD-SW-16-0/1-0  
 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
2.41	64.00	290	0.120284
2.40	66.00	77	

Reviewer: bowieh, 25-Jan-2020 15:35:47

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Euofins TestAmerica, Pittsburgh

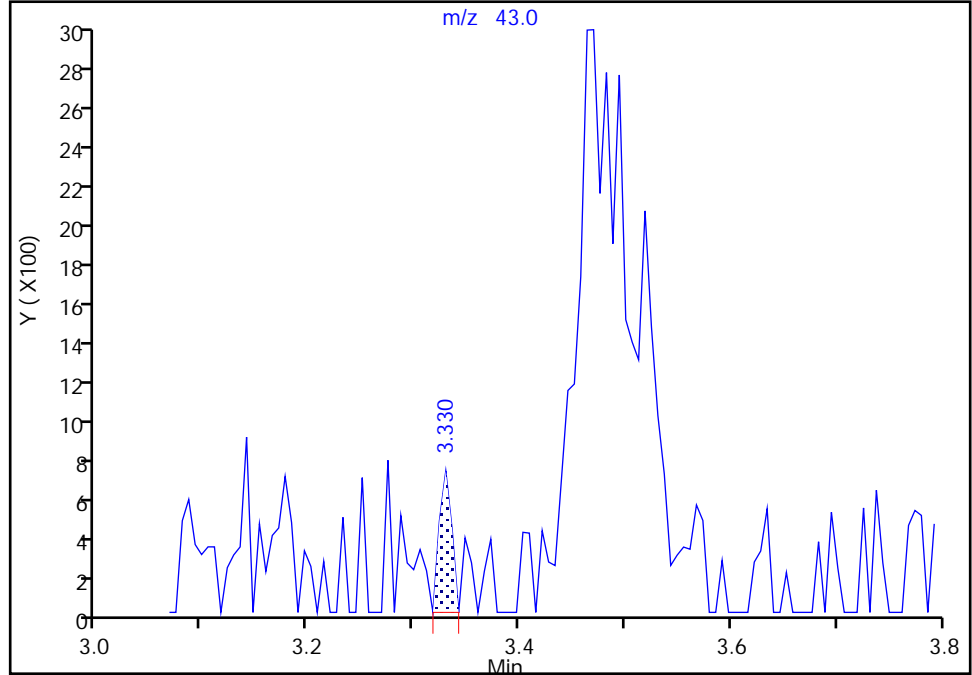
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Injection Date: 25-Jan-2020 15:16:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-4 Lab Sample ID: 180-101459-4  
Client ID: HD-COD-SW-16-0/1-0  
Operator ID: 433269 ALS Bottle#: 5 Worklist Smp#: 11  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
Column: DB-624 (0.18 mm) Detector: MS SCAN

24 Acetone, CAS: 67-64-1

Signal: 1

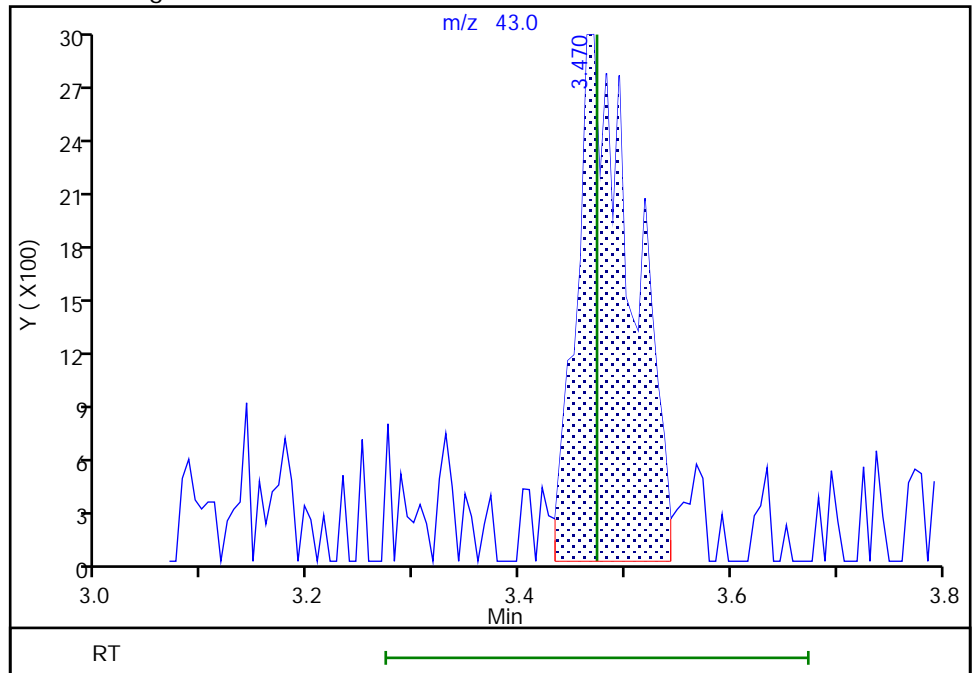
RT: 3.33  
Area: 584  
Amount: 0.474002  
Amount Units: ng

Processing Integration Results



RT: 3.47  
Area: 10912  
Amount: 8.856700  
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 25-Jan-2020 15:35:51  
Audit Action: Assigned Compound ID

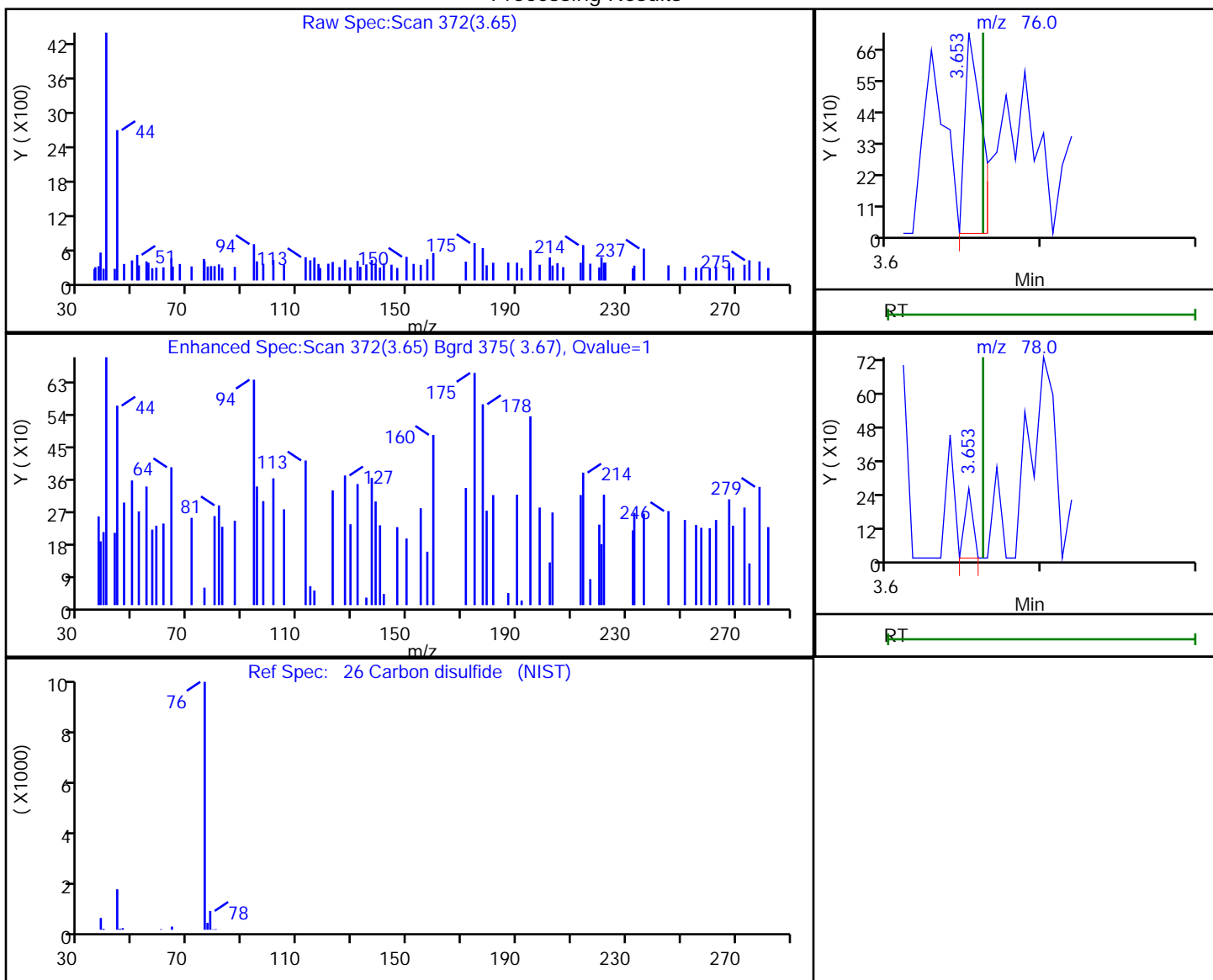
Audit Reason: Poor chromatography

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012511.D  
 Injection Date: 25-Jan-2020 15:16:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-4 Lab Sample ID: 180-101459-4  
 Client ID: HD-COD-SW-16-0/1-0  
 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
3.65	76.00	530	0.097463
3.65	78.00	91	

Reviewer: bowieh, 25-Jan-2020 15:35:53

Audit Action: Marked Compound Undetected

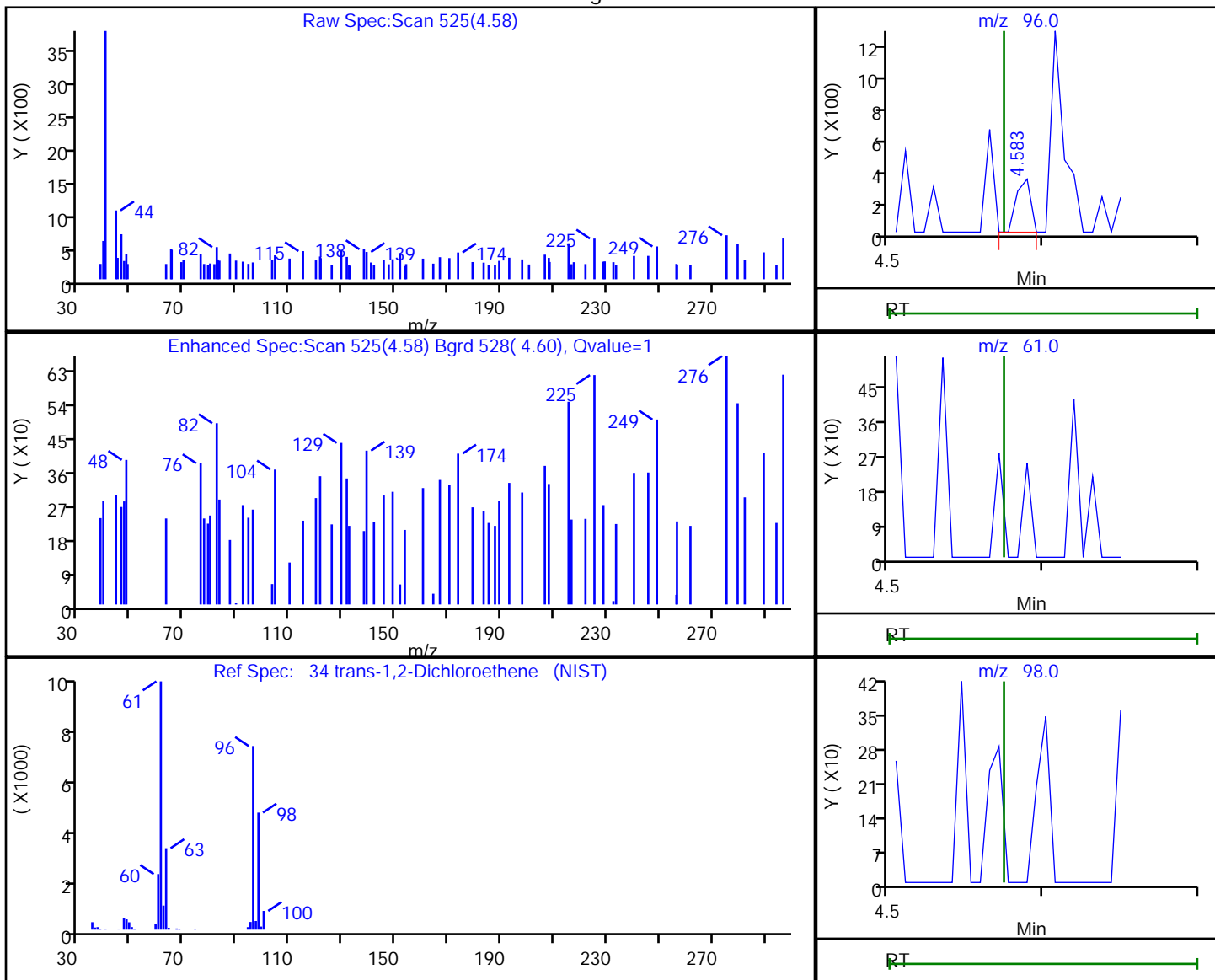
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012511.D  
 Injection Date: 25-Jan-2020 15:16:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-4 Lab Sample ID: 180-101459-4  
 Client ID: HD-COD-SW-16-0/1-0  
 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

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

Processing Results



RT	Mass	Response	Amount
4.58	96.00	214	0.077877
4.57	61.00	0	
4.57	98.00	0	

Reviewer: bowieh, 25-Jan-2020 15:36:05

Audit Action: Marked Compound Undetected

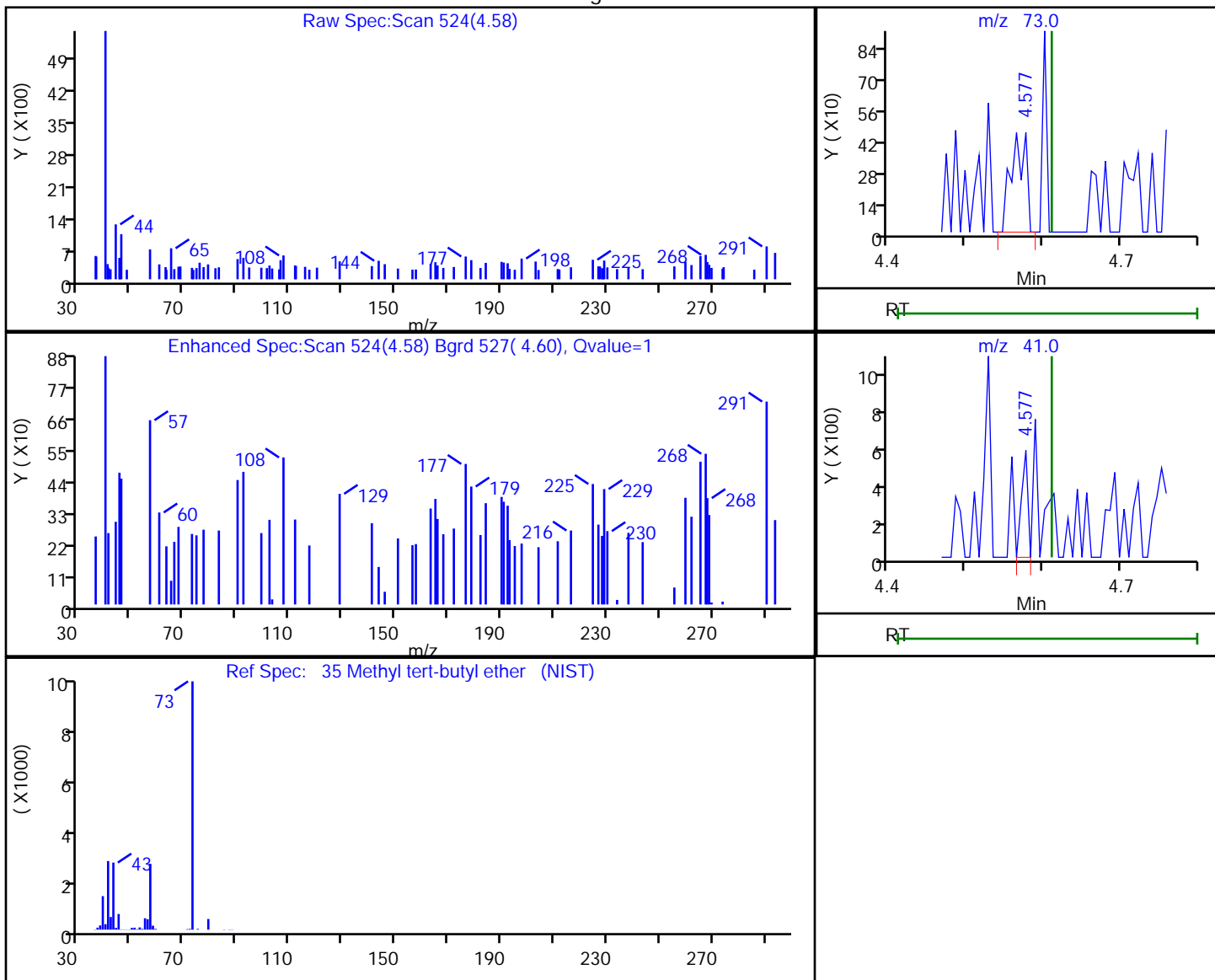
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012511.D  
 Injection Date: 25-Jan-2020 15:16:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-4 Lab Sample ID: 180-101459-4  
 Client ID: HD-COD-SW-16-0/1-0  
 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
4.58	73.00	608	0.114213
4.58	41.00	327	

Reviewer: bowieh, 25-Jan-2020 15:36:06

Audit Action: Marked Compound Undetected

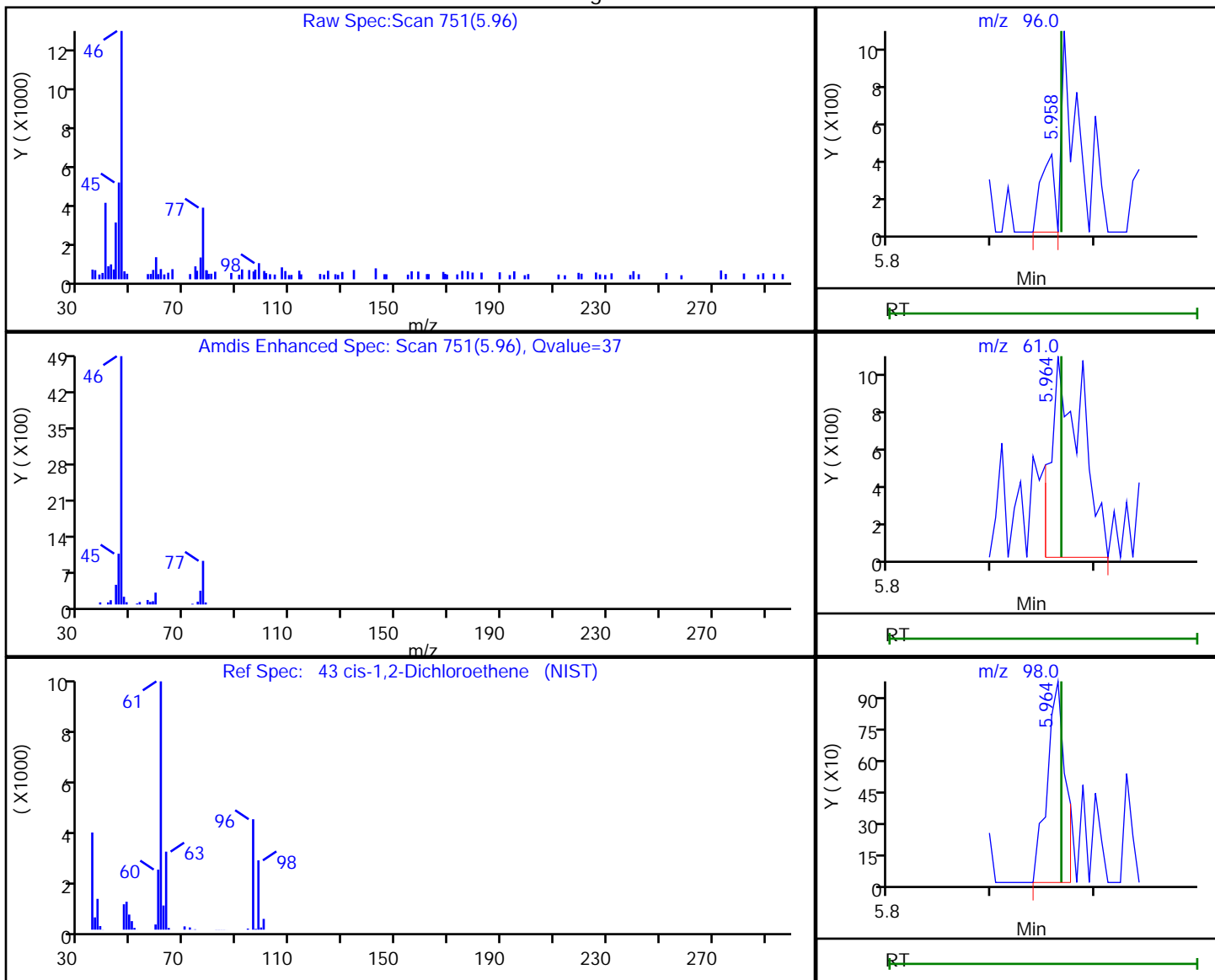
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012511.D  
 Injection Date: 25-Jan-2020 15:16:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-4 Lab Sample ID: 180-101459-4  
 Client ID: HD-COD-SW-16-0/1-0  
 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

Processing Results



RT	Mass	Response	Amount
5.96	96.00	354	0.119646
5.96	61.00	2288	
5.96	98.00	1200	

Reviewer: bowieh, 25-Jan-2020 15:36:08

Audit Action: Marked Compound Undetected

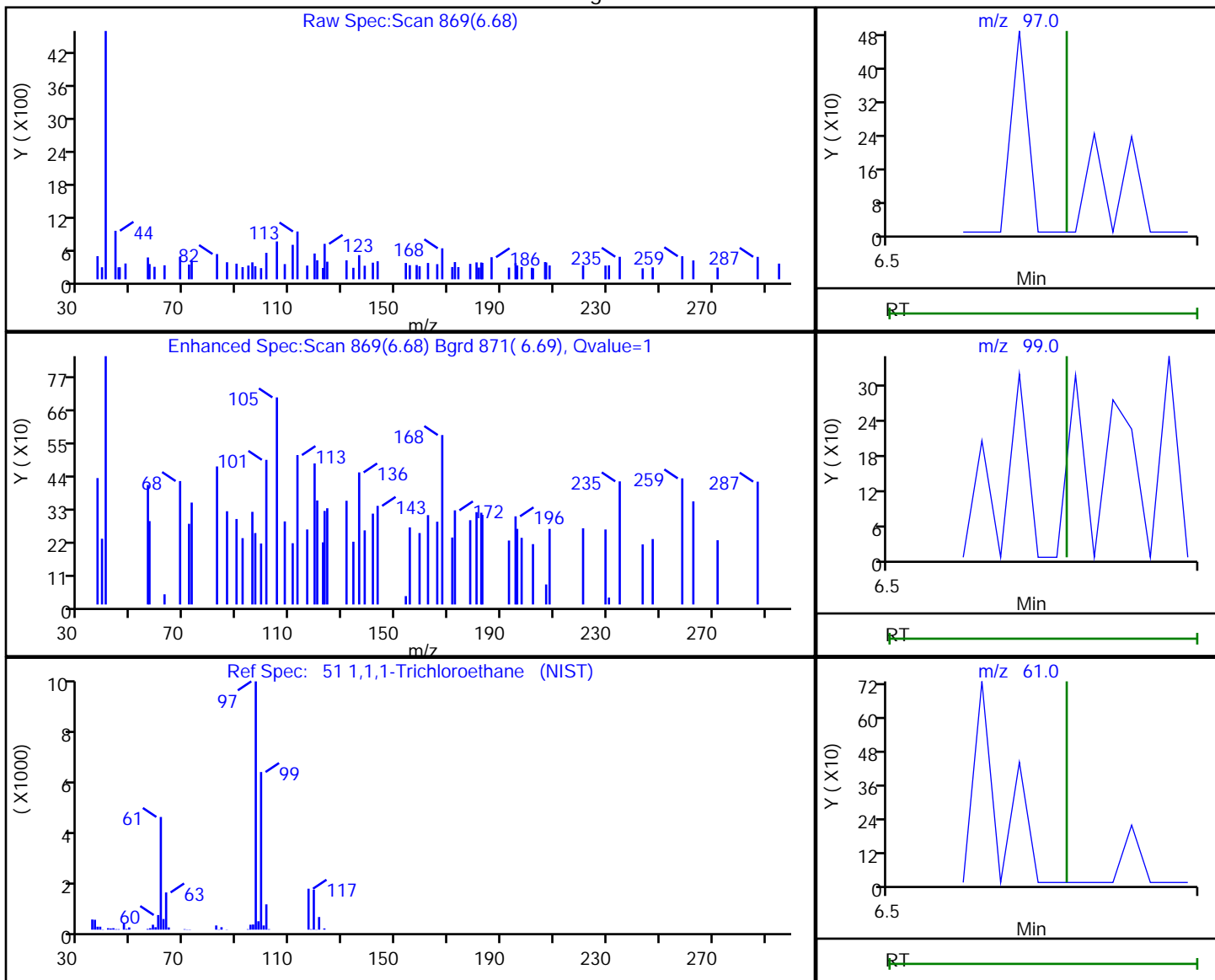
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012511.D  
 Injection Date: 25-Jan-2020 15:16:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-4 Lab Sample ID: 180-101459-4  
 Client ID: HD-COD-SW-16-0/1-0  
 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
6.68	97.00	87	0.025545
6.68	99.00	185	
6.68	61.00	212	

Reviewer: bowieh, 25-Jan-2020 15:36:12

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

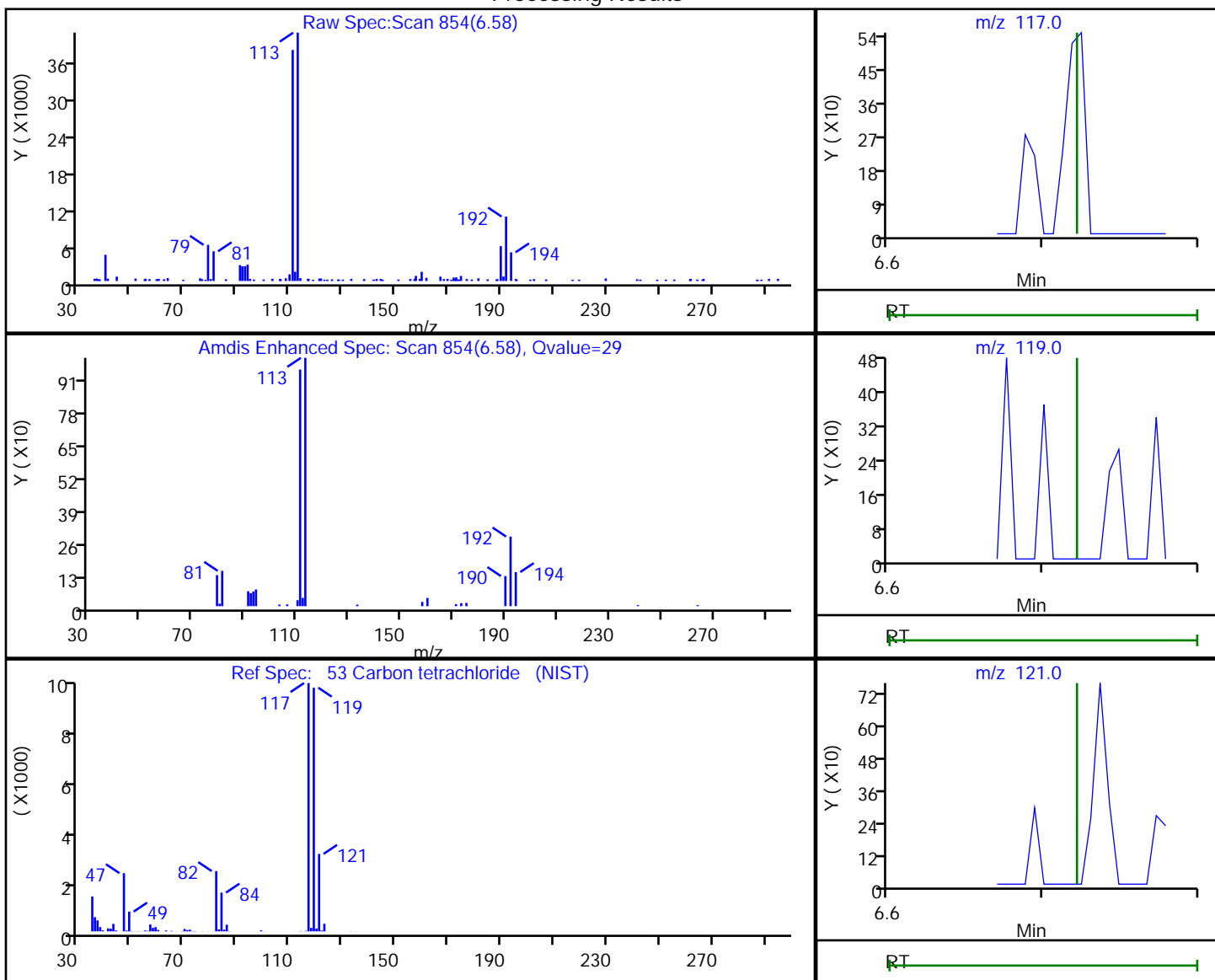


Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012511.D  
 Injection Date: 25-Jan-2020 15:16:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-4 Lab Sample ID: 180-101459-4  
 Client ID: HD-COD-SW-16-0/1-0  
 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

53 Carbon tetrachloride, CAS: 56-23-5

Processing Results



RT	Mass	Response	Amount
6.58	117.00	362	0.126383
6.58	119.00	150	
6.58	121.00	393	

Reviewer: bowieh, 25-Jan-2020 15:36:13

Audit Action: Marked Compound Undetected

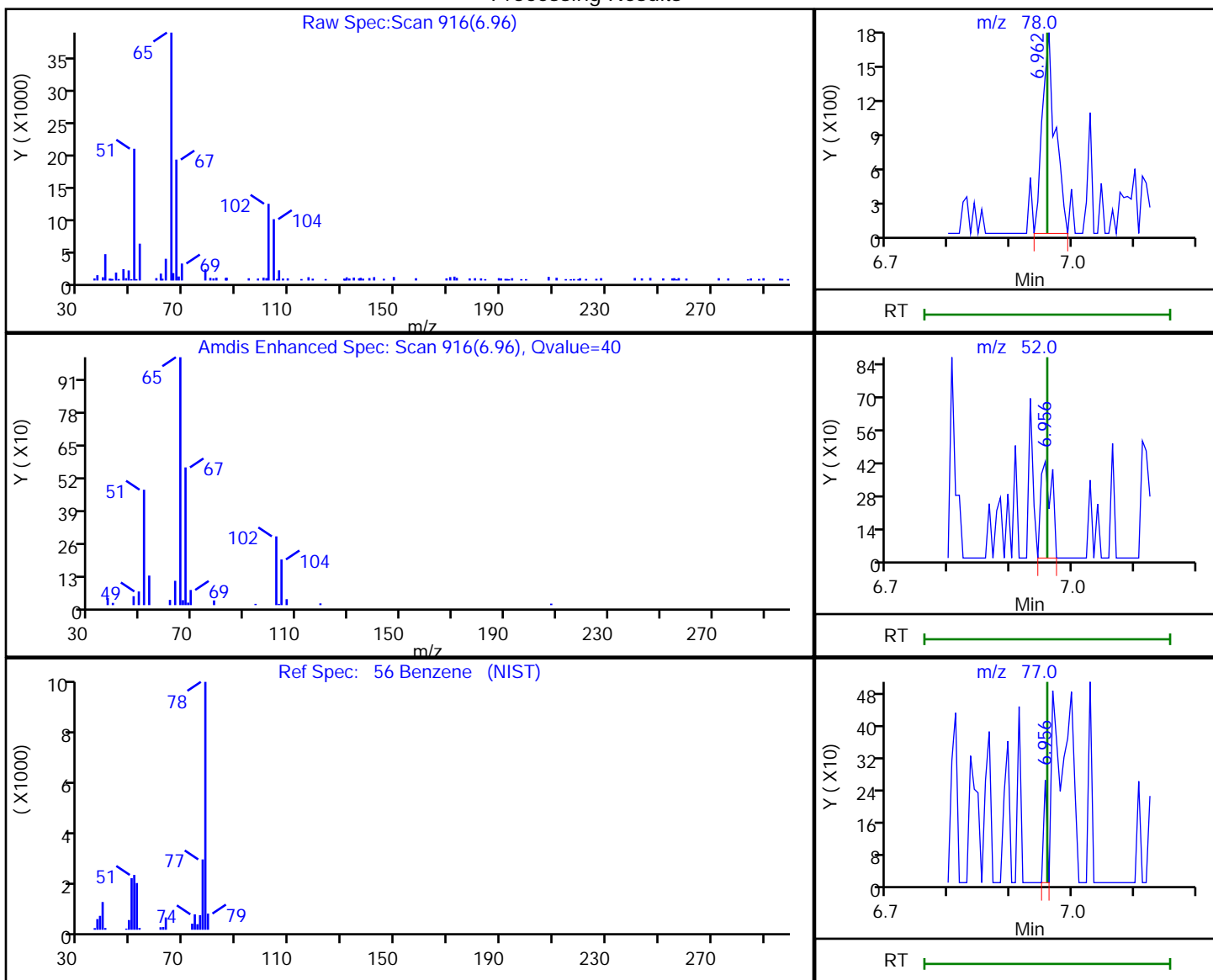
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012511.D  
 Injection Date: 25-Jan-2020 15:16:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-4 Lab Sample ID: 180-101459-4  
 Client ID: HD-COD-SW-16-0/1-0  
 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

56 Benzene, CAS: 71-43-2

Processing Results



RT	Mass	Response	Amount
6.96	78.00	2527	0.231628
6.96	52.00	503	
6.96	77.00	94	

Reviewer: bowieh, 25-Jan-2020 15:36:15  
 Audit Action: Marked Compound Undetected

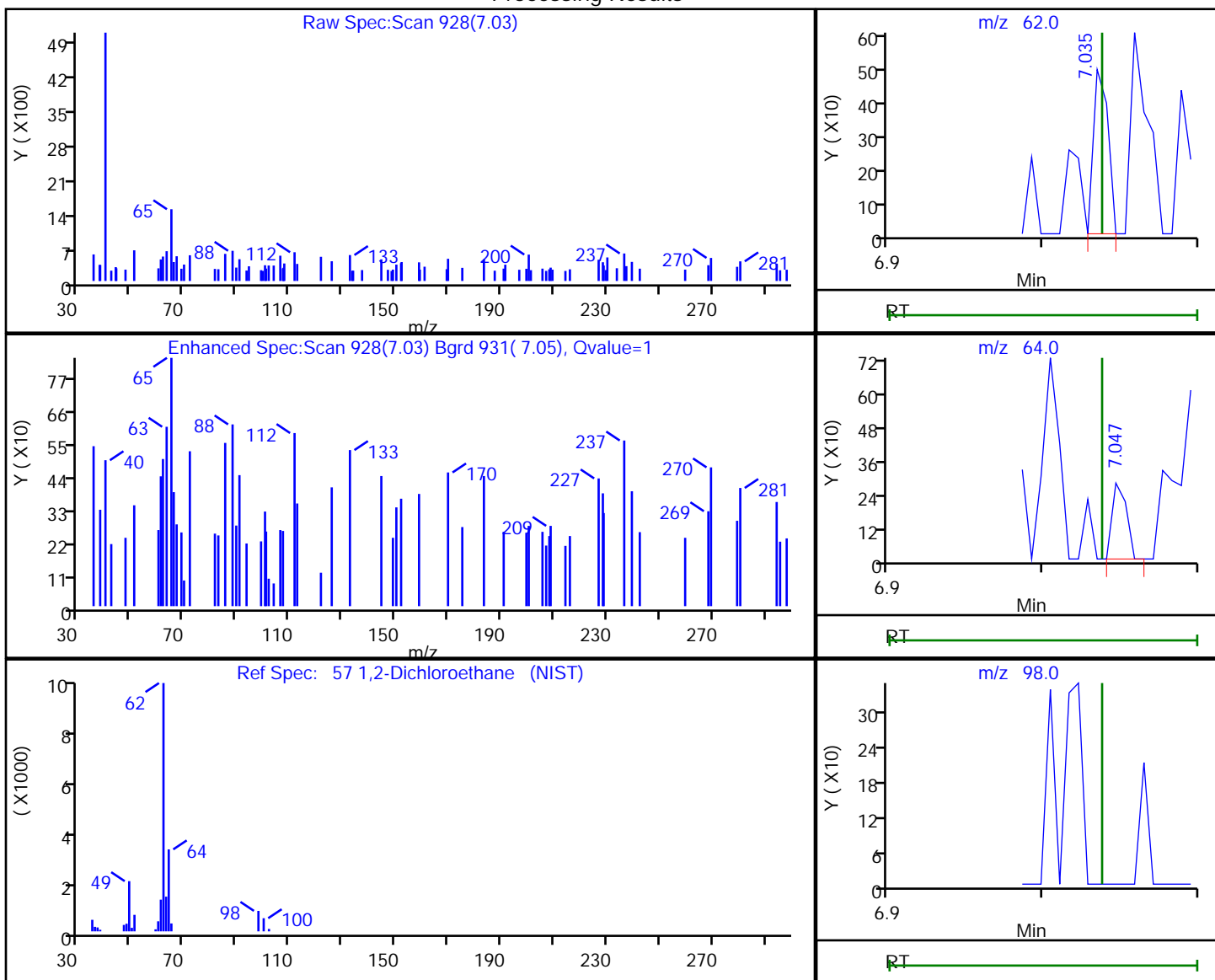
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Injection Date: 25-Jan-2020 15:16:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-4 Lab Sample ID: 180-101459-4  
 Client ID: HD-COD-SW-16-0/1-0  
 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
7.03	62.00	323	0.107495
7.05	64.00	176	
7.04	98.00	0	

Reviewer: bowieh, 25-Jan-2020 15:36:16

Audit Action: Marked Compound Undetected

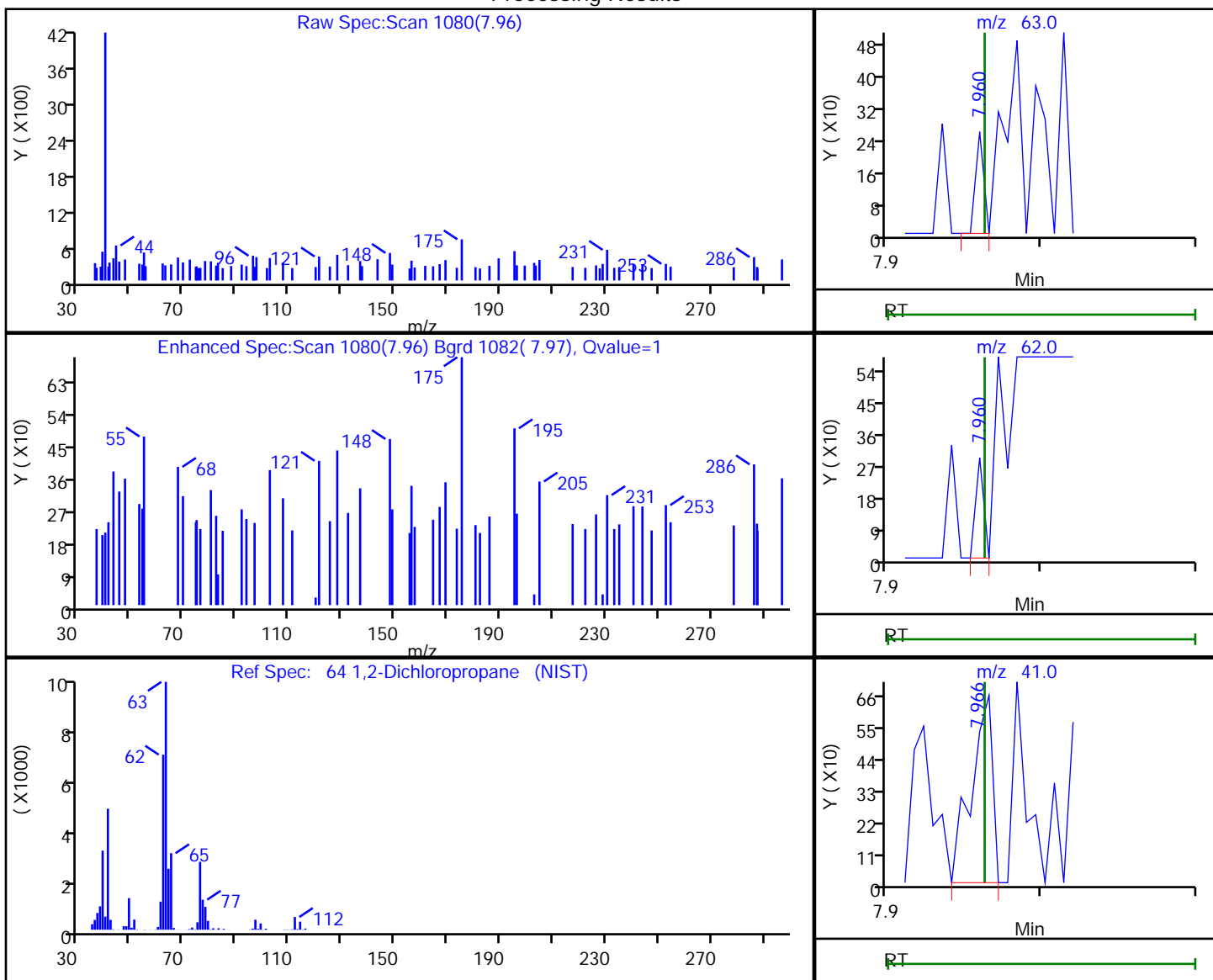
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012511.D  
 Injection Date: 25-Jan-2020 15:16:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-4 Lab Sample ID: 180-101459-4  
 Client ID: HD-COD-SW-16-0/1-0  
 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

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

Processing Results



RT	Mass	Response	Amount
7.96	63.00	93	0.036416
7.96	62.00	105	
7.97	41.00	632	

Reviewer: bowieh, 25-Jan-2020 15:36:18

Audit Action: Marked Compound Undetected

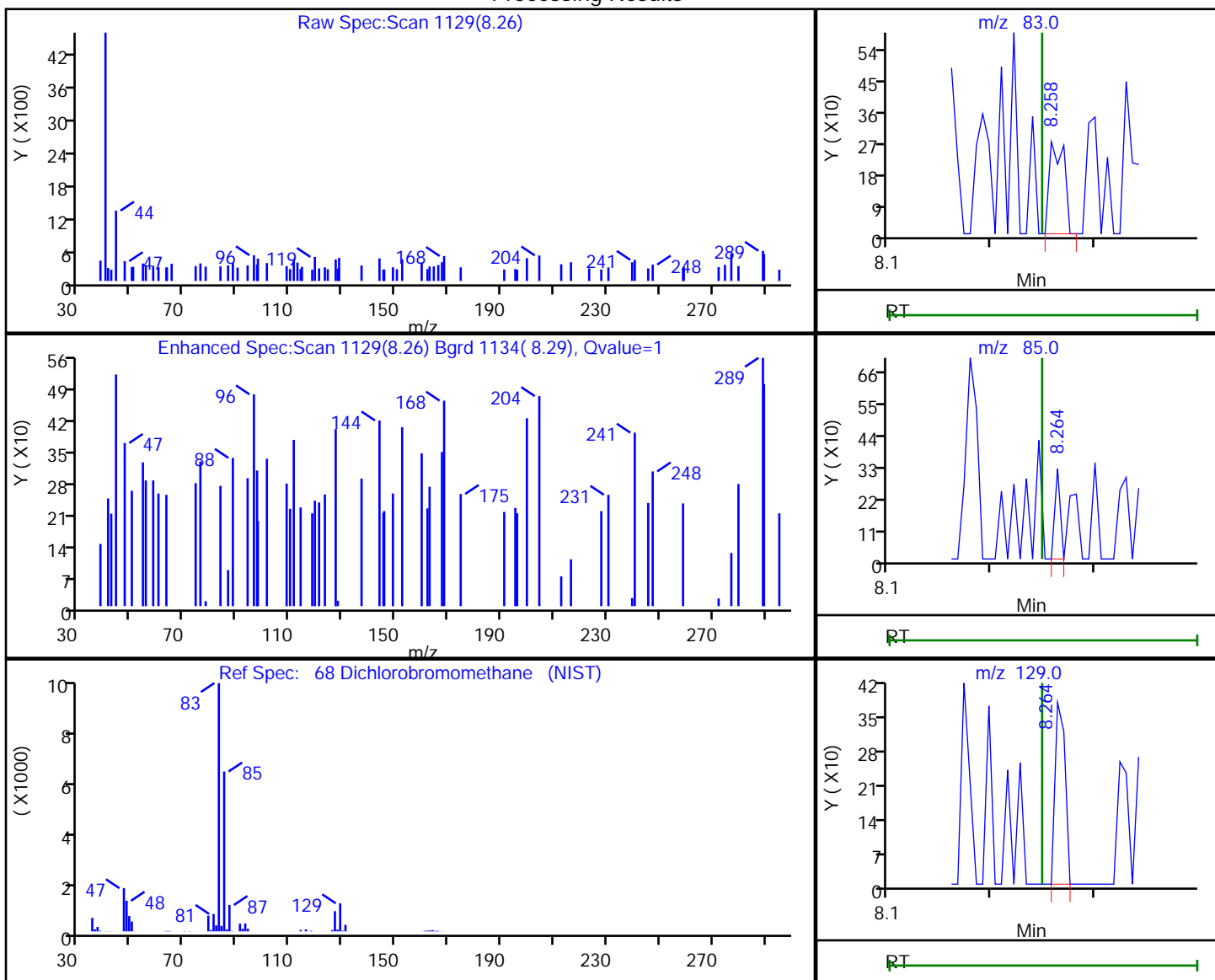
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012511.D  
 Injection Date: 25-Jan-2020 15:16:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-4 Lab Sample ID: 180-101459-4  
 Client ID: HD-COD-SW-16-0/1-0  
 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

68 Dichlorobromomethane, CAS: 75-27-4

Processing Results



RT	Mass	Response	Amount
8.26	83.00	265	0.111008
8.26	85.00	116	
8.26	129.00	251	

Reviewer: bowieh, 25-Jan-2020 15:36:19

Audit Action: Marked Compound Undetected

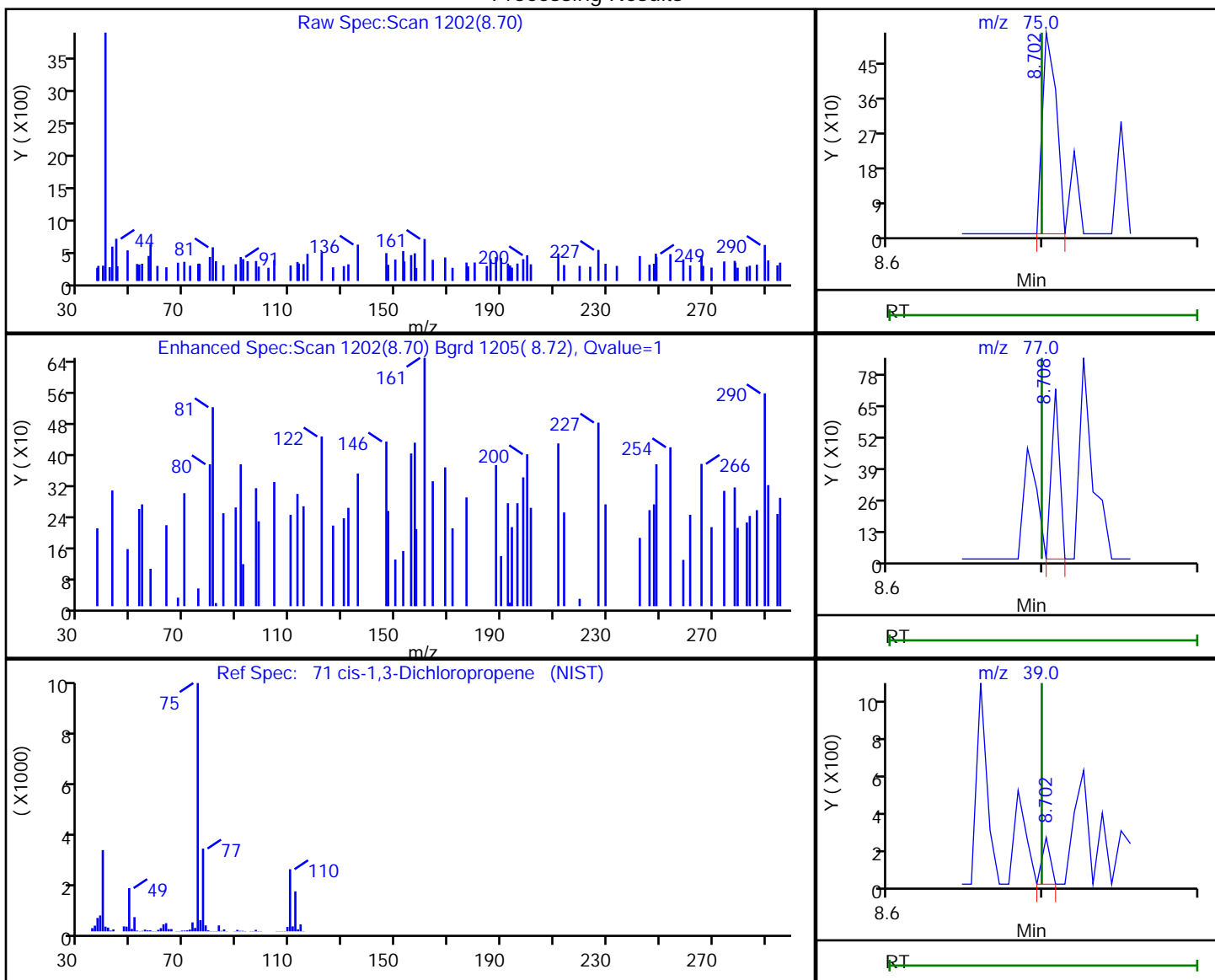
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012511.D  
 Injection Date: 25-Jan-2020 15:16:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-4 Lab Sample ID: 180-101459-4  
 Client ID: HD-COD-SW-16-0/1-0  
 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
8.70	75.00	332	0.107544
8.71	77.00	262	
8.70	39.00	86	

Reviewer: bowieh, 25-Jan-2020 15:36:21

Audit Action: Marked Compound Undetected

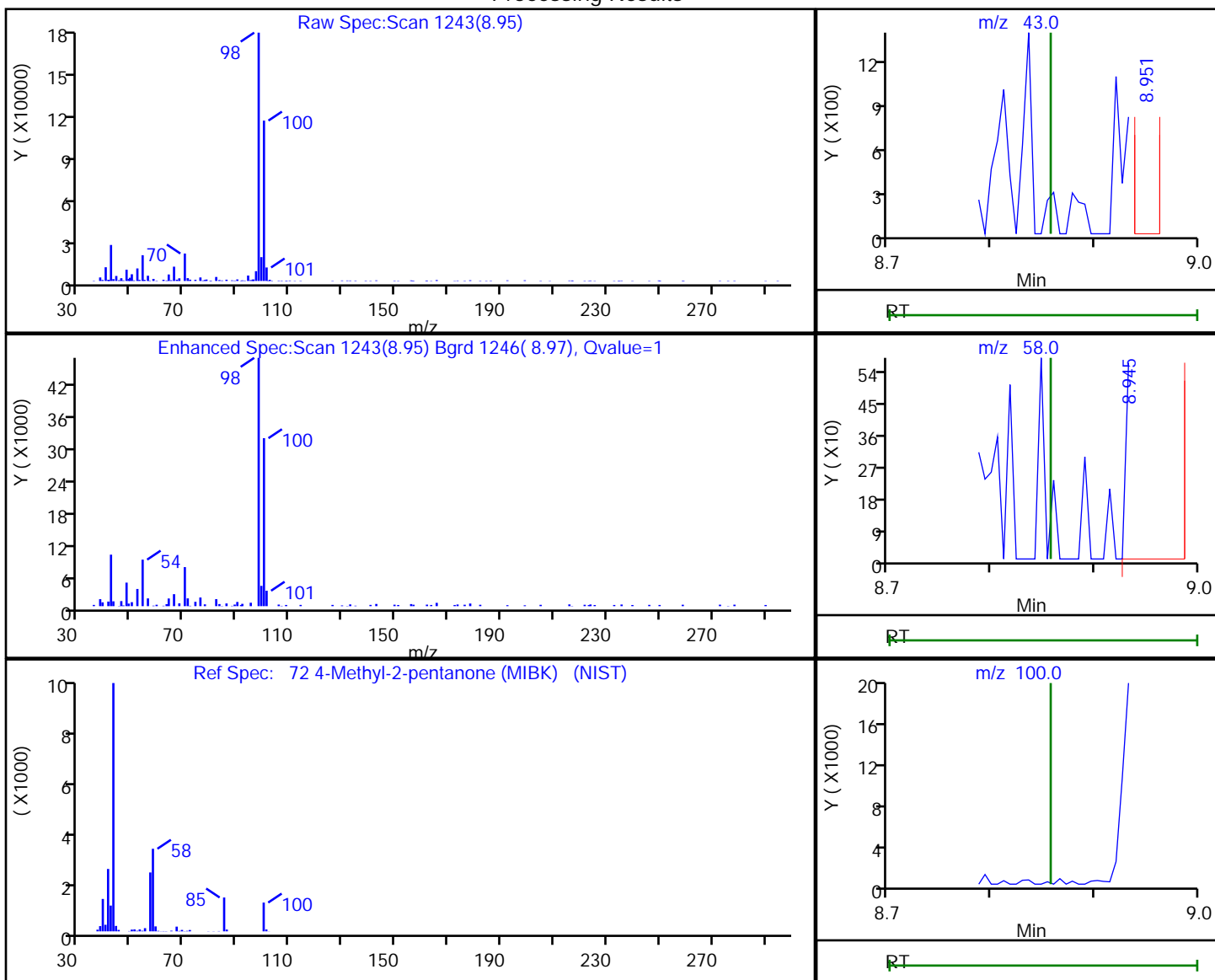
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012511.D  
 Injection Date: 25-Jan-2020 15:16:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-4 Lab Sample ID: 180-101459-4  
 Client ID: HD-COD-SW-16-0/1-0  
 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
8.95	43.00	1116	0.494589
8.95	58.00	3578	
8.96	100.00	261644	

Reviewer: bowieh, 25-Jan-2020 15:36:22

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

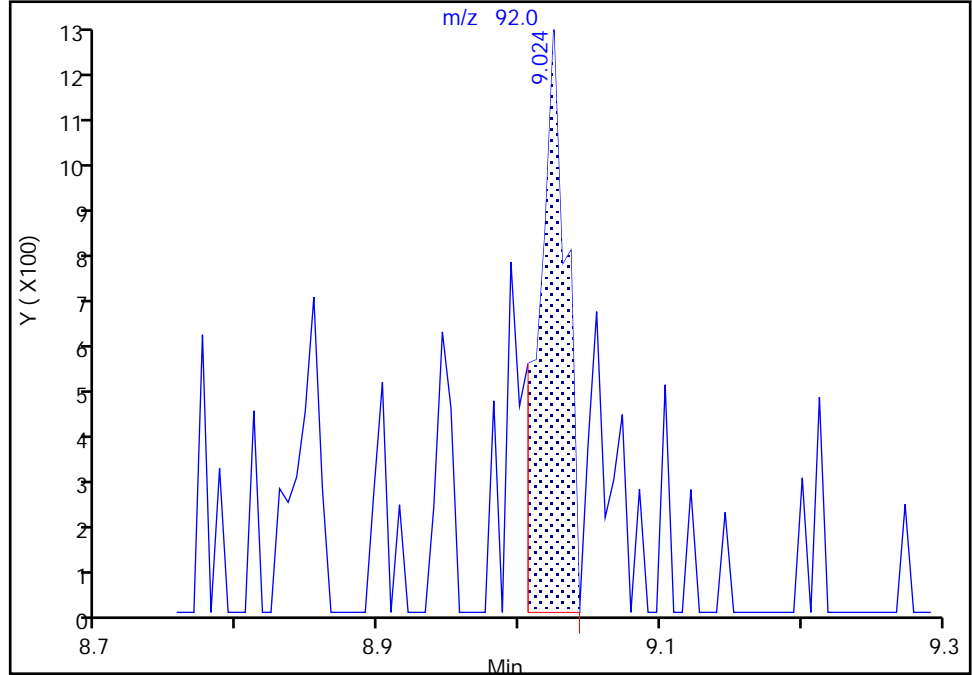
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Injection Date: 25-Jan-2020 15:16:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-4 Lab Sample ID: 180-101459-4  
Client ID: HD-COD-SW-16-0/1-0  
Operator ID: 433269 ALS Bottle#: 5 Worklist Smp#: 11  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
Column: DB-624 (0.18 mm) Detector: MS SCAN

73 Toluene, CAS: 108-88-3

Signal: 2

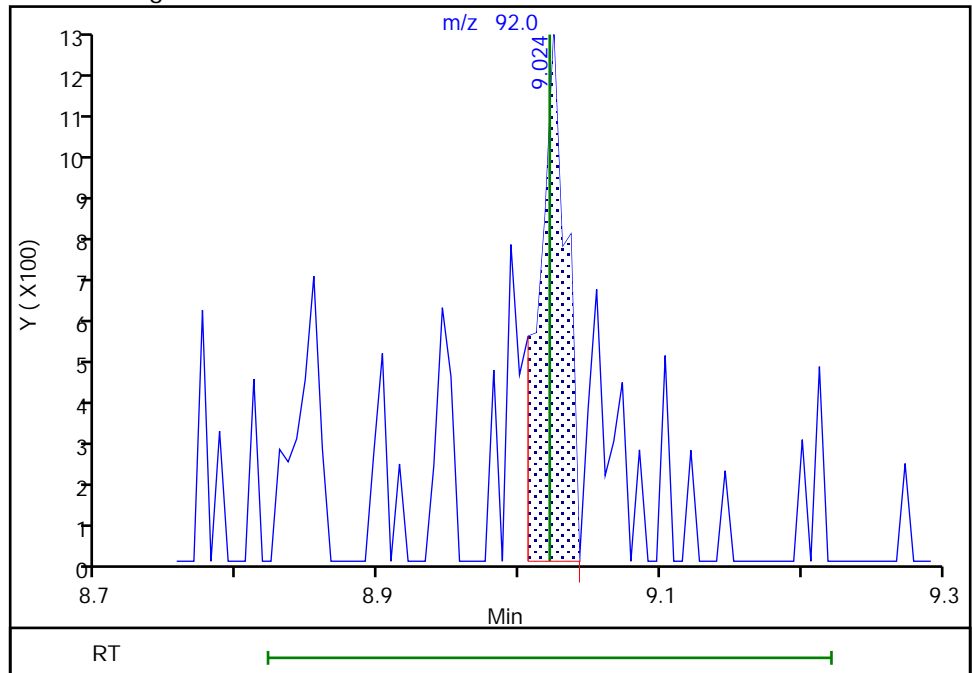
RT: 9.02  
Area: 1682  
Amount: 0.172013  
Amount Units: ng

Processing Integration Results



RT: 9.02  
Area: 1682  
Amount: 0.268818  
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 25-Jan-2020 15:36:23  
Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID



Eurofins TestAmerica, Pittsburgh

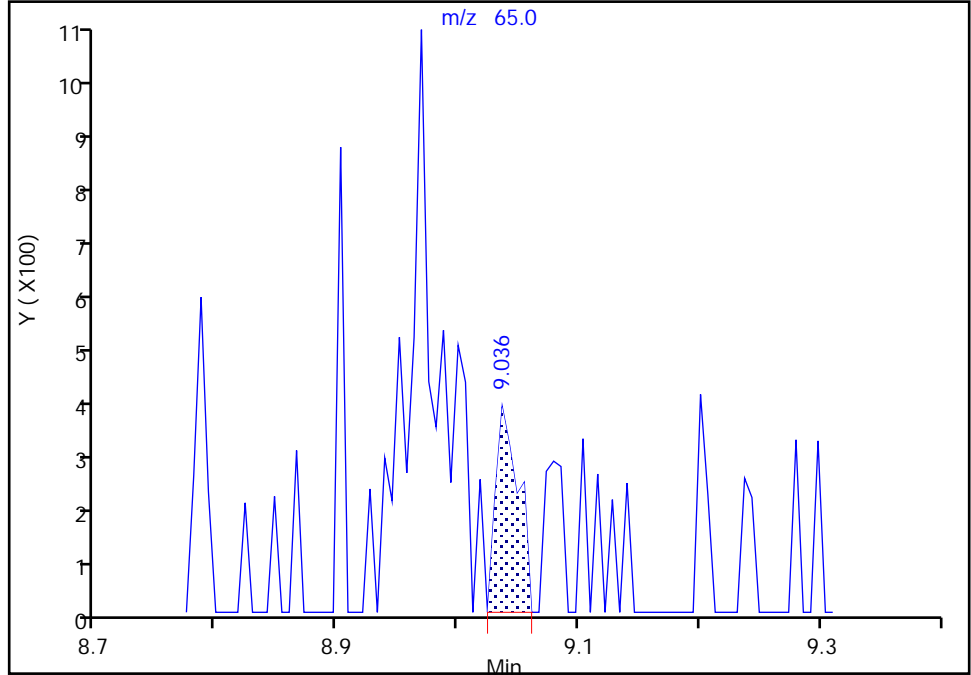
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Injection Date: 25-Jan-2020 15:16:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-4 Lab Sample ID: 180-101459-4  
Client ID: HD-COD-SW-16-0/1-0  
Operator ID: 433269 ALS Bottle#: 5 Worklist Smp#: 11  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
Column: DB-624 (0.18 mm) Detector: MS SCAN

73 Toluene, CAS: 108-88-3

Signal: 3

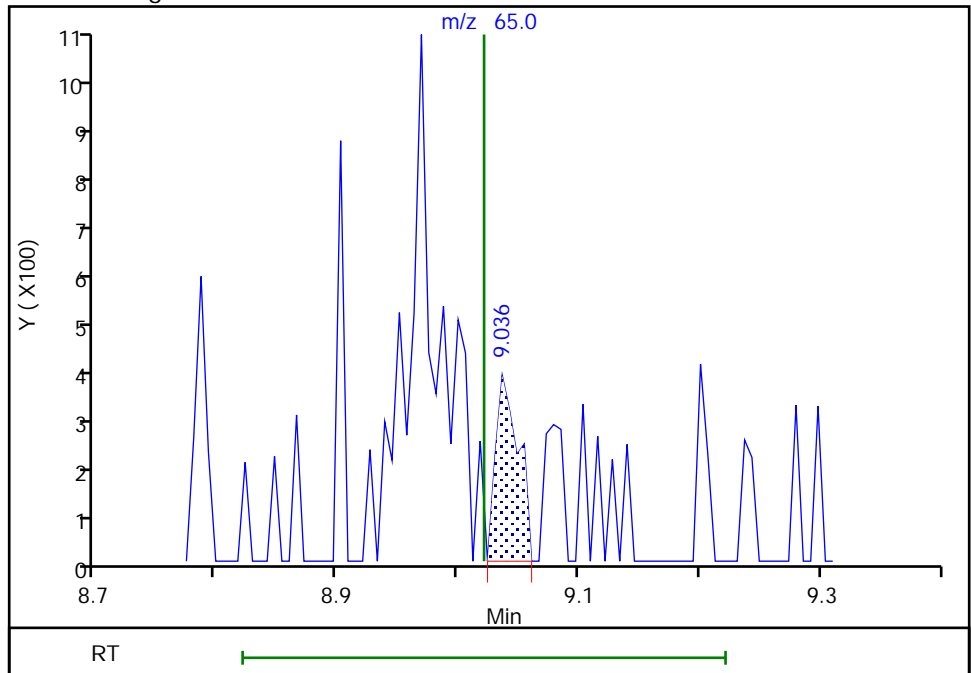
RT: 9.04  
Area: 502  
Amount: 0.172013  
Amount Units: ng

Processing Integration Results



RT: 9.04  
Area: 502  
Amount: 0.268818  
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 25-Jan-2020 15:36:23  
Audit Action: Marked Compound Undetected

Eurofins TestAmerica, Pittsburgh

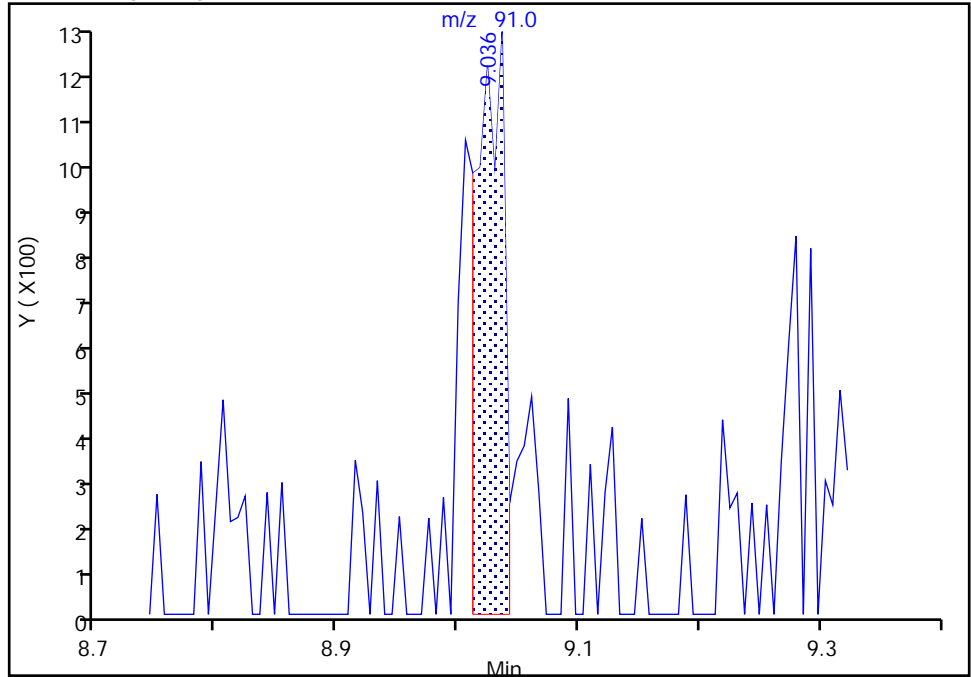
Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012511.D  
Injection Date: 25-Jan-2020 15:16:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-4 Lab Sample ID: 180-101459-4  
Client ID: HD-COD-SW-16-0/1-0  
Operator ID: 433269 ALS Bottle#: 5 Worklist Smp#: 11  
Purge Vol: 5.000 mL Dil. 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

Signal: 1

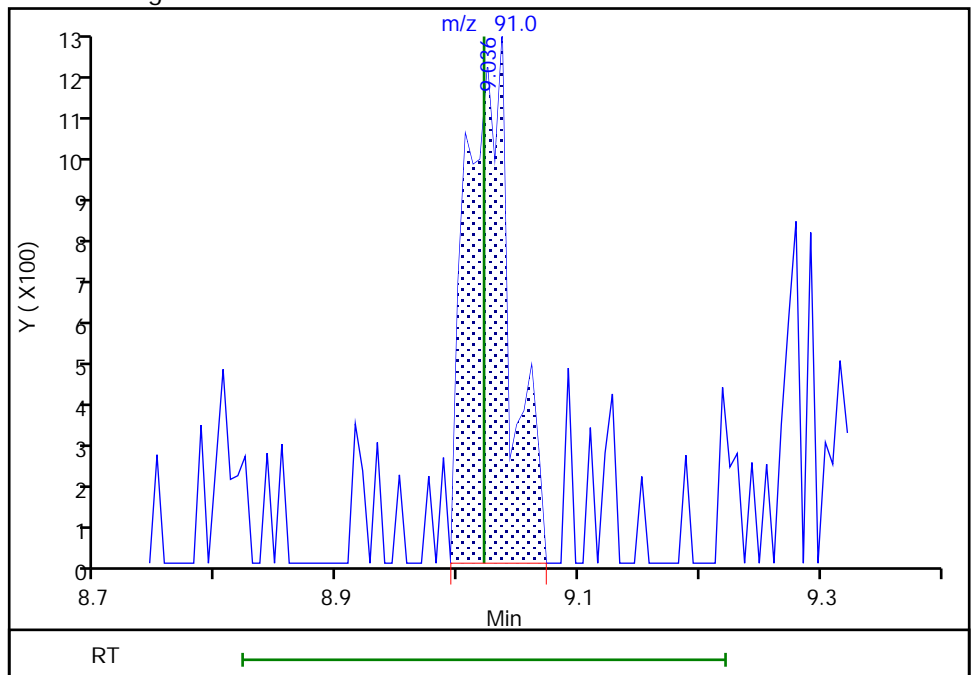
RT: 9.04  
Area: 2063  
Amount: 0.172013  
Amount Units: ng

Processing Integration Results



RT: 9.04  
Area: 3224  
Amount: 0.268818  
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 25-Jan-2020 15:36:33

Audit Action: Manually Integrated

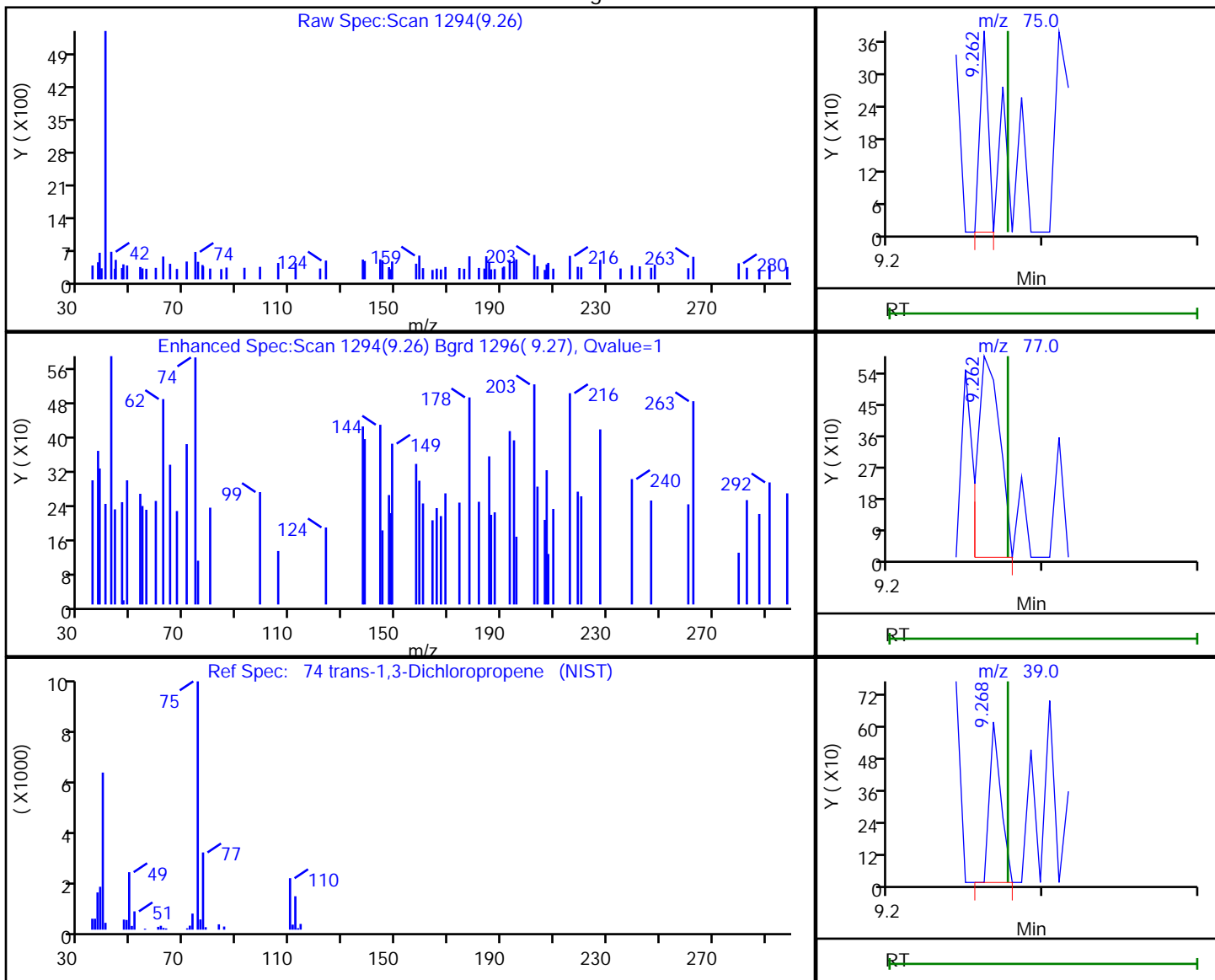
Audit Reason: Poor chromatography

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012511.D  
 Injection Date: 25-Jan-2020 15:16:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-4 Lab Sample ID: 180-101459-4  
 Client ID: HD-COD-SW-16-0/1-0  
 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
9.26	75.00	137	0.052249
9.26	77.00	581	
9.27	39.00	311	

Reviewer: bowieh, 25-Jan-2020 15:36:35

Audit Action: Marked Compound Undetected

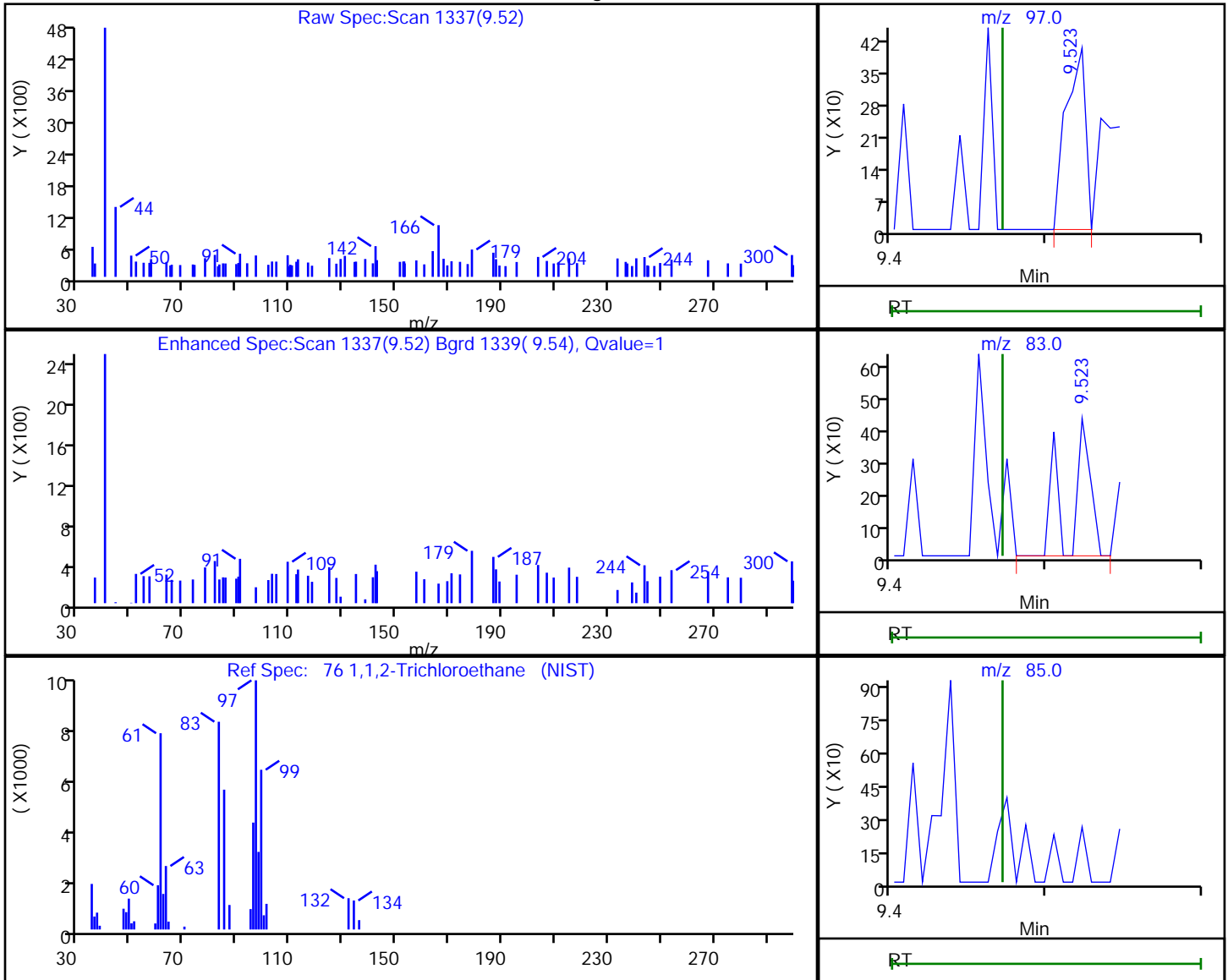
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012511.D  
Injection Date: 25-Jan-2020 15:16:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-4 Lab Sample ID: 180-101459-4  
Client ID: HD-COD-SW-16-0/1-0  
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
9.52	97.00	356	0.163157
9.52	83.00	382	
9.47	85.00	0	

Reviewer: bowieh, 25-Jan-2020 15:36:36

Audit Action: Marked Compound Undetected

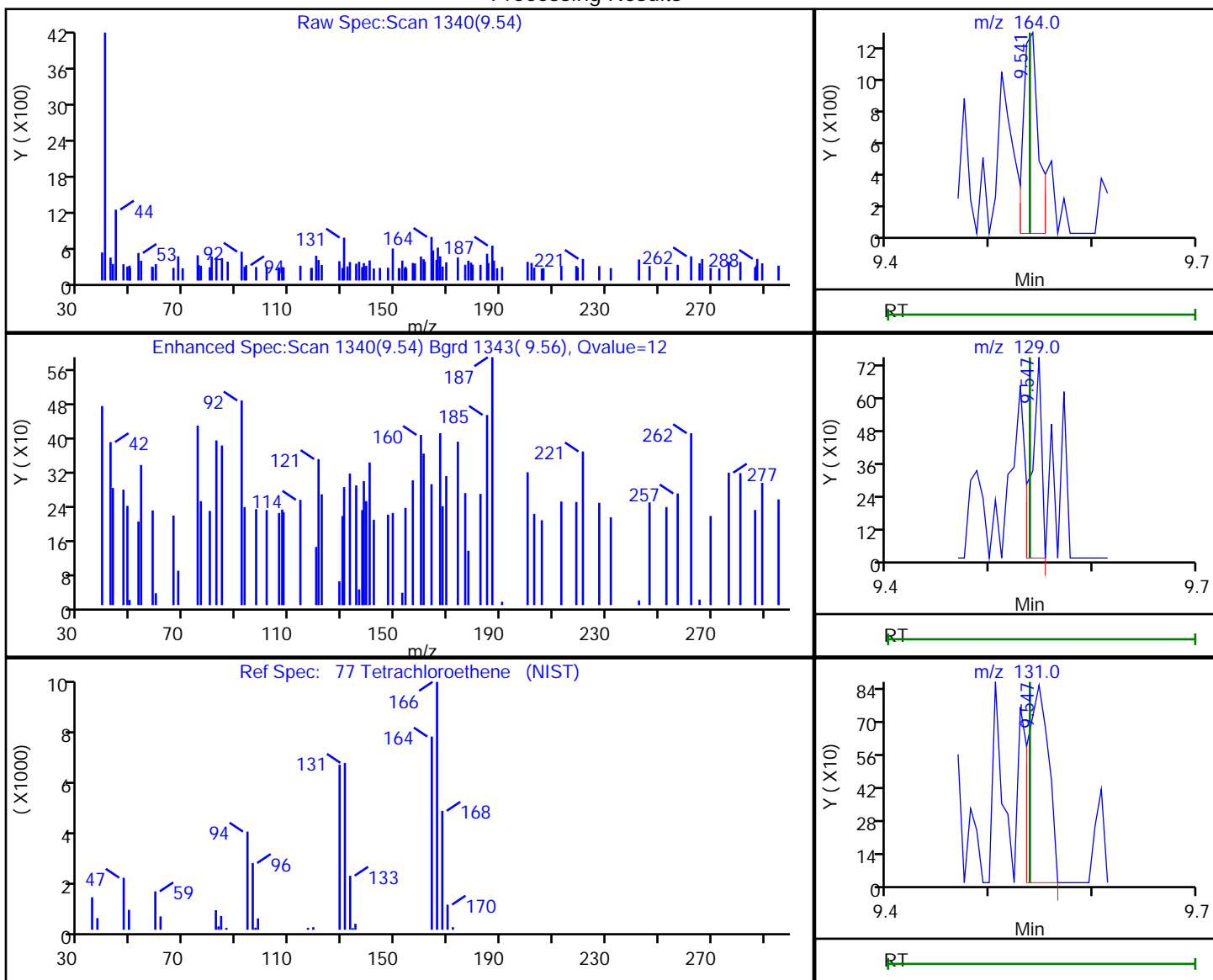
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012511.D  
 Injection Date: 25-Jan-2020 15:16:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-4 Lab Sample ID: 180-101459-4  
 Client ID: HD-COD-SW-16-0/1-0  
 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
9.54	164.00	1279	0.431661
9.55	129.00	491	
9.55	131.00	1195	

Reviewer: bowieh, 25-Jan-2020 15:36:37

Audit Action: Marked Compound Undetected

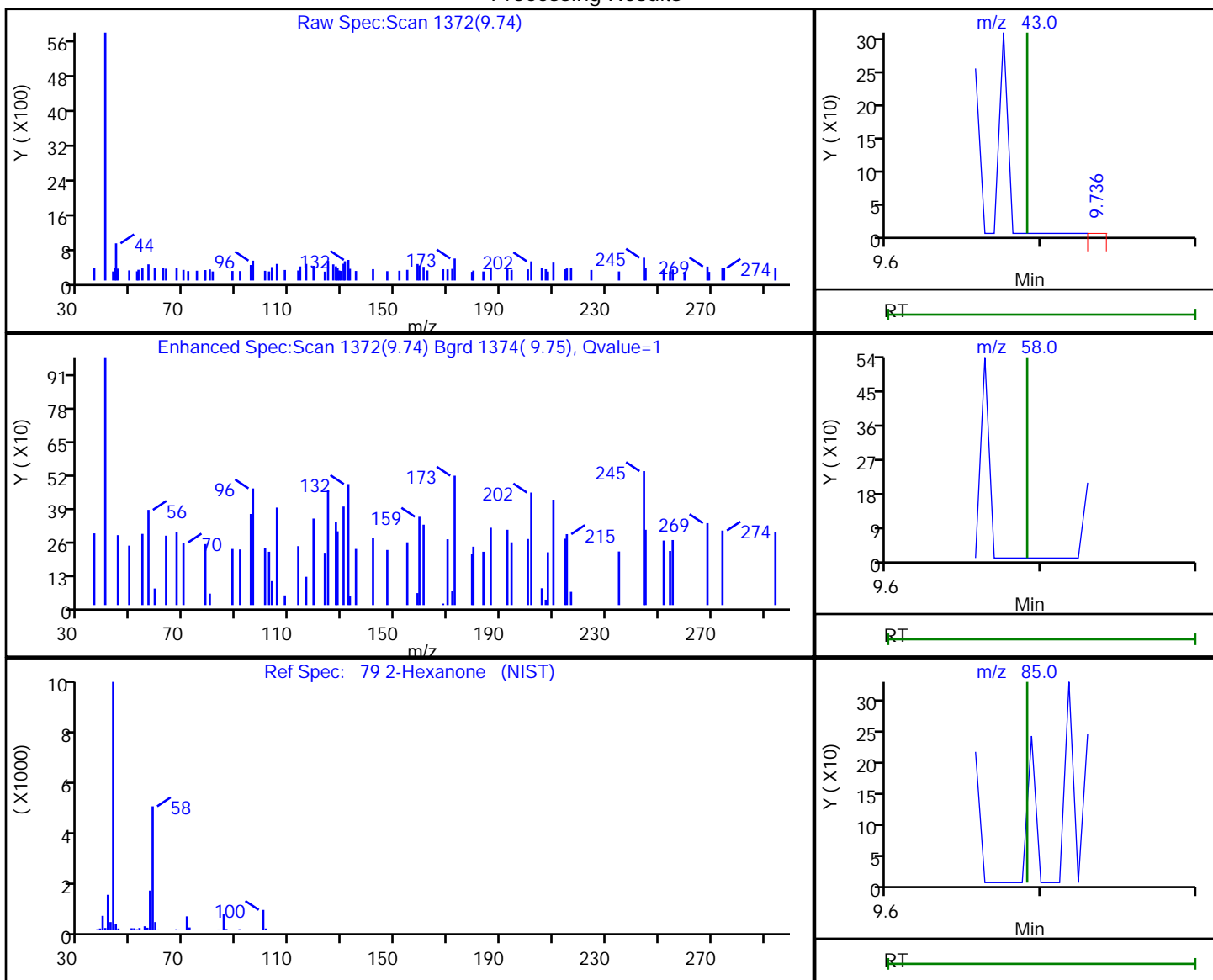
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012511.D  
 Injection Date: 25-Jan-2020 15:16:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-4 Lab Sample ID: 180-101459-4  
 Client ID: HD-COD-SW-16-0/1-0  
 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
9.74	43.00	181	0.093121
9.69	58.00	0	
9.69	85.00	0	

Reviewer: bowieh, 25-Jan-2020 15:36:39

Audit Action: Marked Compound Undetected

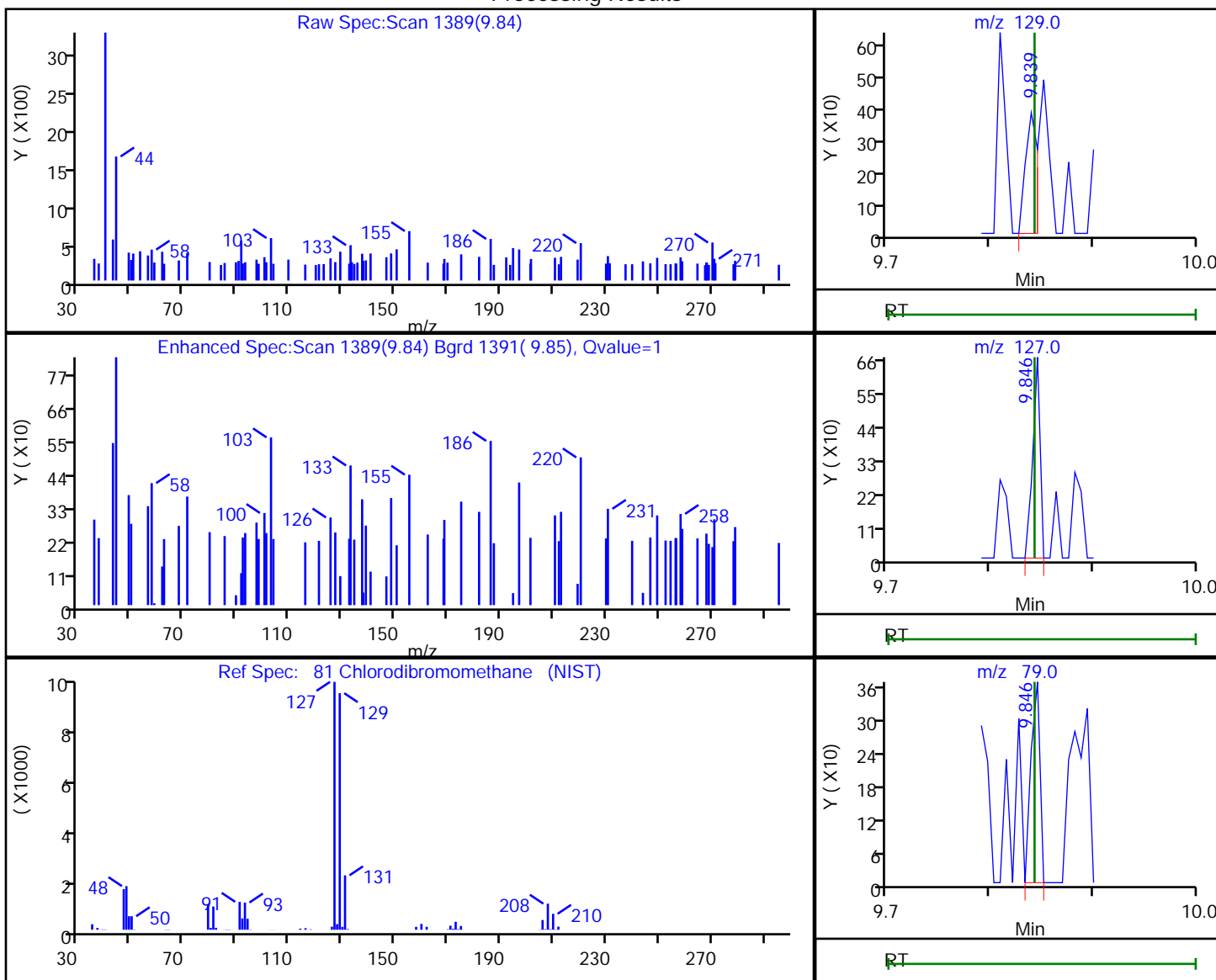
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012511.D  
 Injection Date: 25-Jan-2020 15:16:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-4 Lab Sample ID: 180-101459-4  
 Client ID: HD-COD-SW-16-0/1-0  
 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
9.84	129.00	315	0.170933
9.85	127.00	331	
9.85	79.00	223	

Reviewer: bowieh, 25-Jan-2020 15:36:41

Audit Action: Marked Compound Undetected

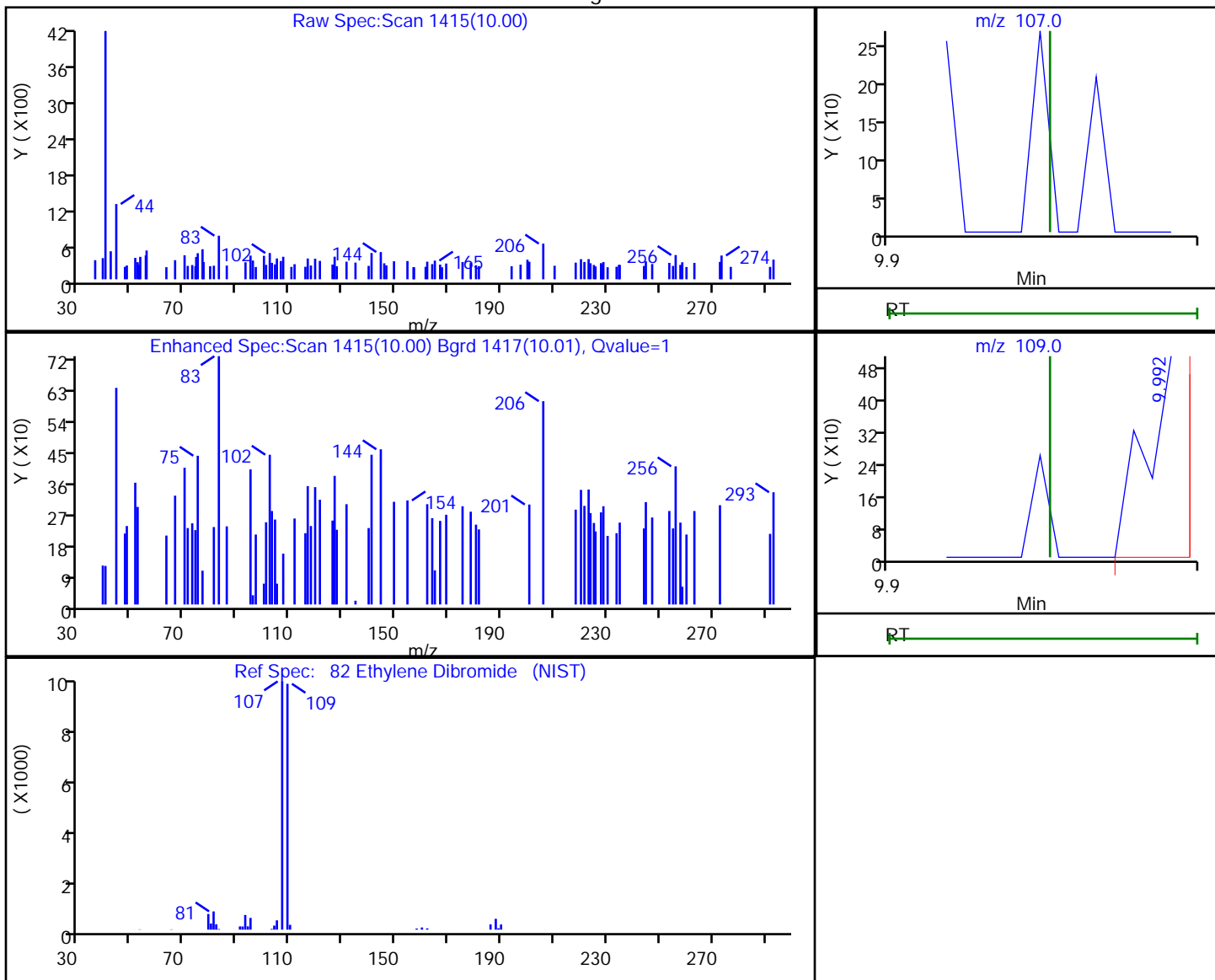
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012511.D  
 Injection Date: 25-Jan-2020 15:16:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-4 Lab Sample ID: 180-101459-4  
 Client ID: HD-COD-SW-16-0/1-0  
 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
10.00	107.00	137	0.063621
9.99	109.00	376	

Reviewer: bowieh, 25-Jan-2020 15:36:42

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

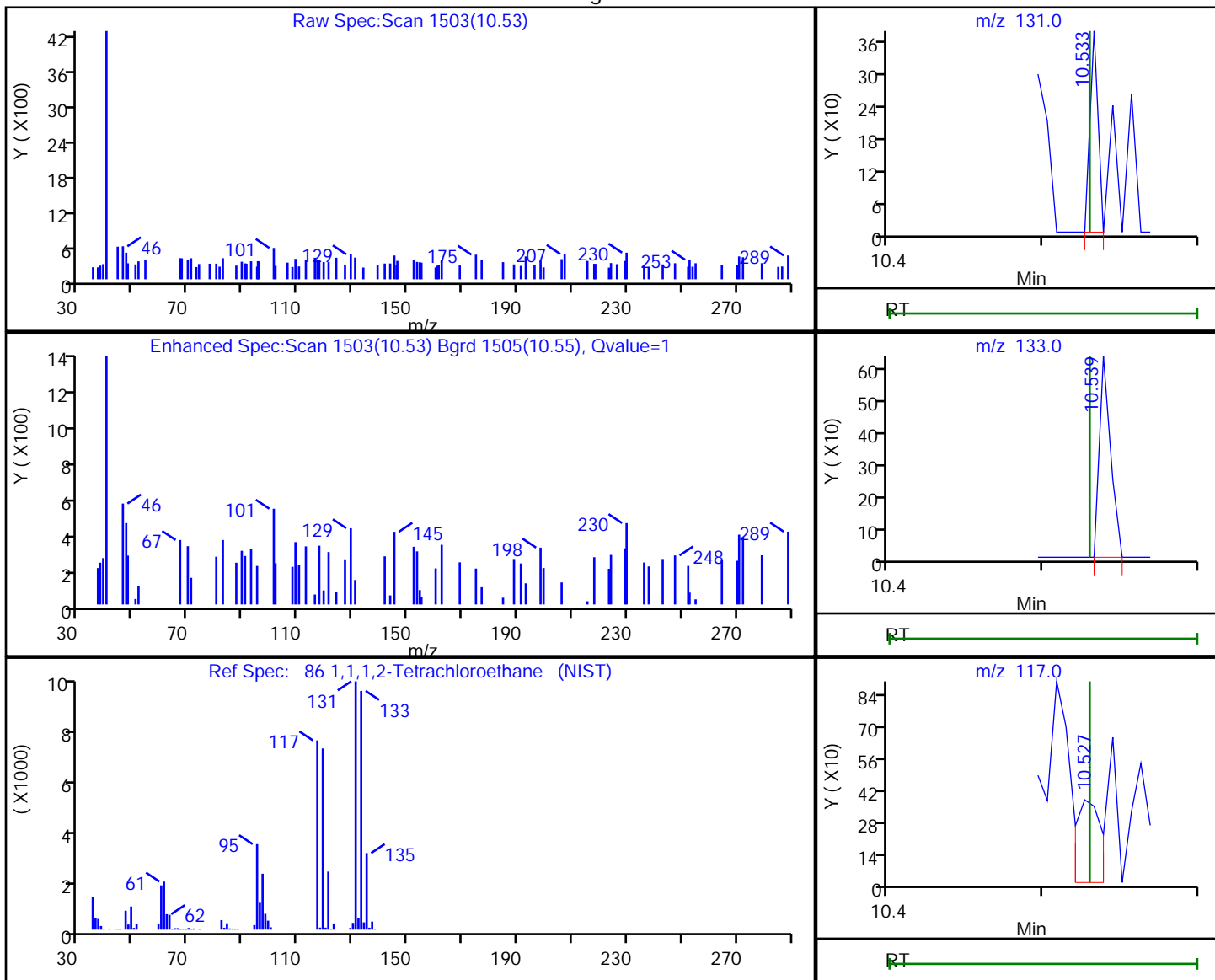


Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012511.D  
 Injection Date: 25-Jan-2020 15:16:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-4 Lab Sample ID: 180-101459-4  
 Client ID: HD-COD-SW-16-0/1-0  
 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
10.53	131.00	136	0.057914
10.54	133.00	323	
10.53	117.00	428	

Reviewer: bowieh, 25-Jan-2020 15:36:44

Audit Action: Marked Compound Undetected

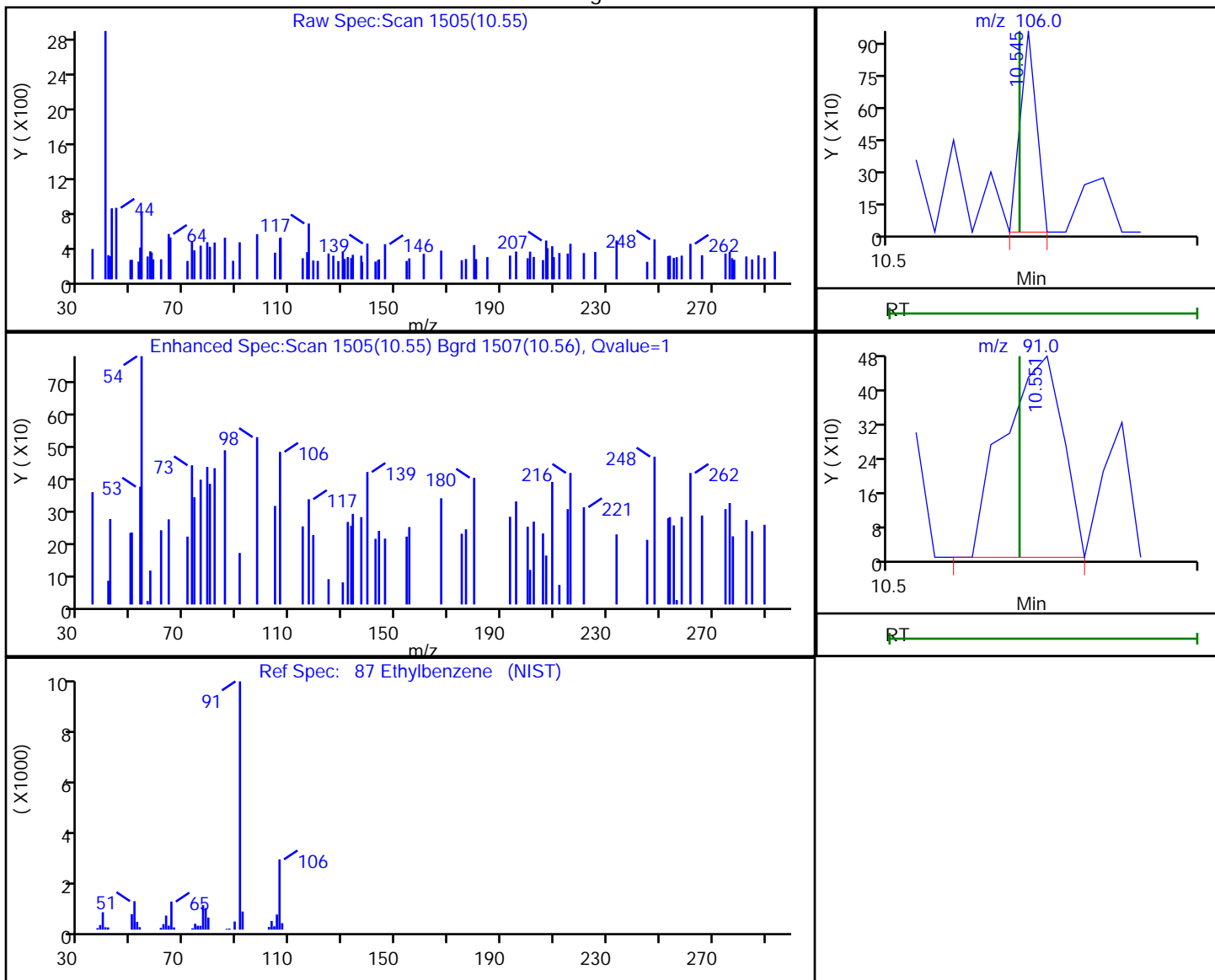
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012511.D  
 Injection Date: 25-Jan-2020 15:16:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-4 Lab Sample ID: 180-101459-4  
 Client ID: HD-COD-SW-16-0/1-0  
 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
10.55	106.00	351	0.076720
10.55	91.00	636	

Reviewer: bowieh, 25-Jan-2020 15:36:45

Audit Action: Marked Compound Undetected

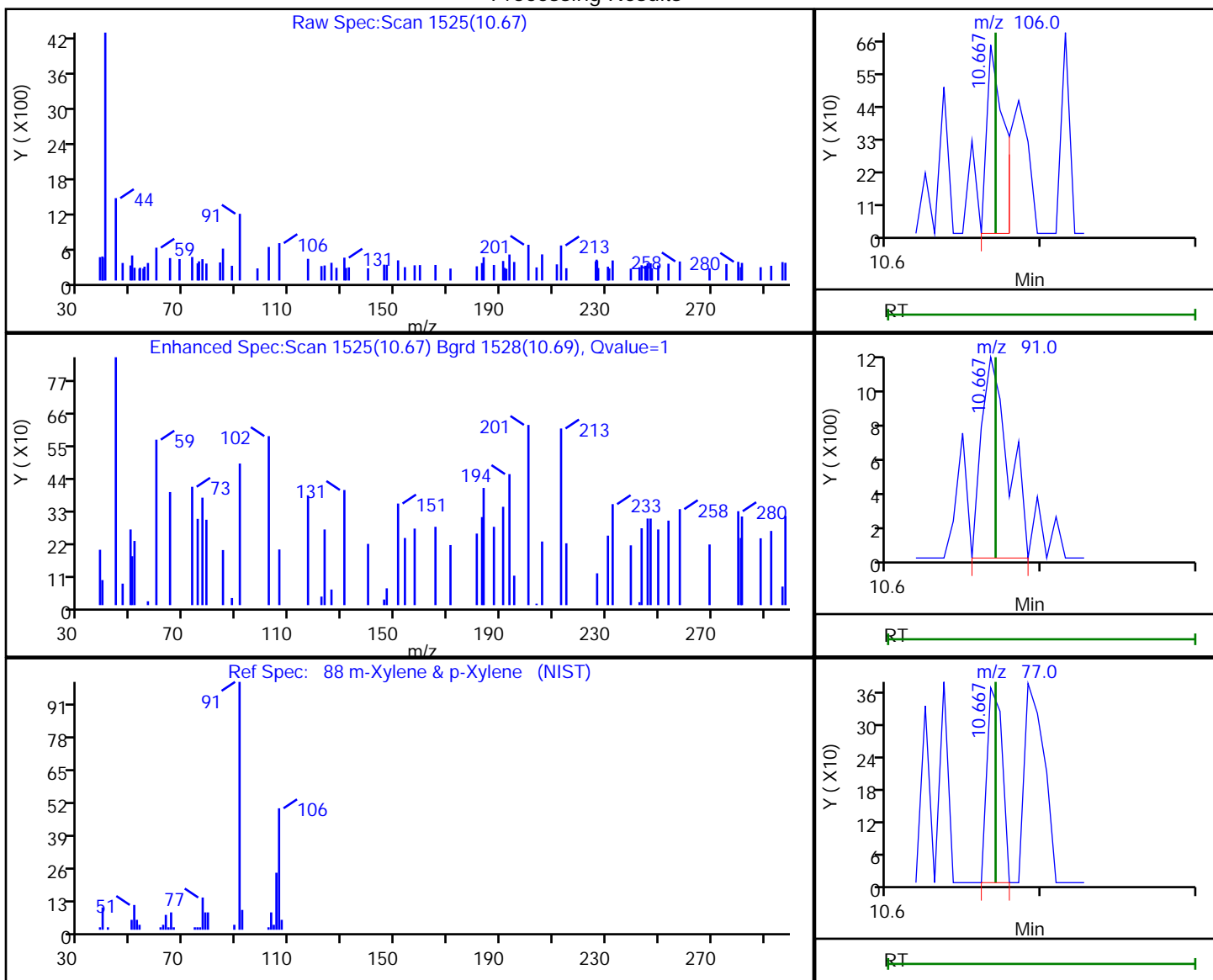
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012511.D  
 Injection Date: 25-Jan-2020 15:16:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-4 Lab Sample ID: 180-101459-4  
 Client ID: HD-COD-SW-16-0/1-0  
 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
10.67	106.00	507	0.092446
10.67	91.00	1390	
10.67	77.00	250	

Reviewer: bowieh, 25-Jan-2020 15:36:46

Audit Action: Marked Compound Undetected

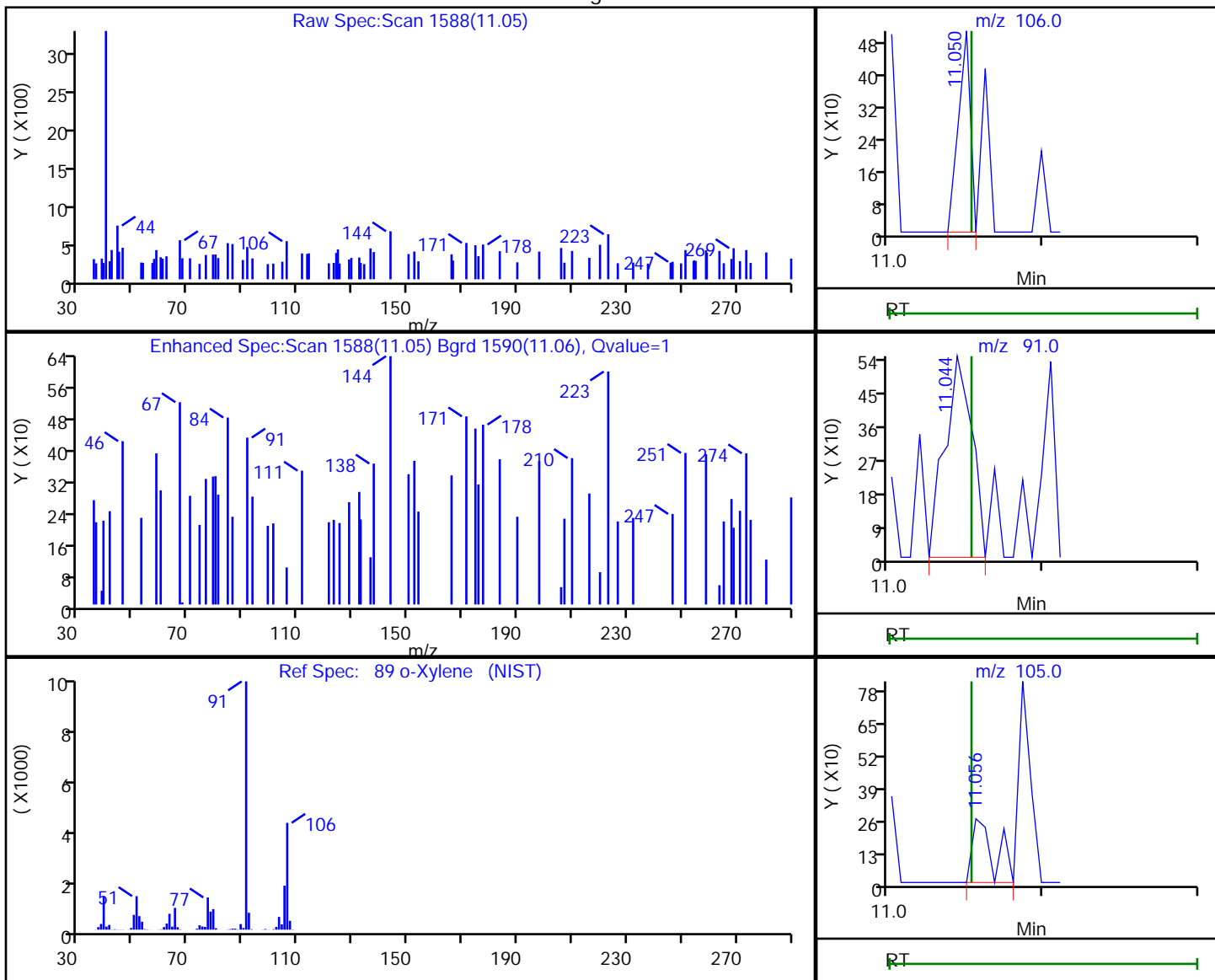
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012511.D  
 Injection Date: 25-Jan-2020 15:16:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-4 Lab Sample ID: 180-101459-4  
 Client ID: HD-COD-SW-16-0/1-0  
 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
11.05	106.00	271	0.051934
11.04	91.00	672	
11.06	105.00	255	

Reviewer: bowieh, 25-Jan-2020 15:36:47

Audit Action: Marked Compound Undetected

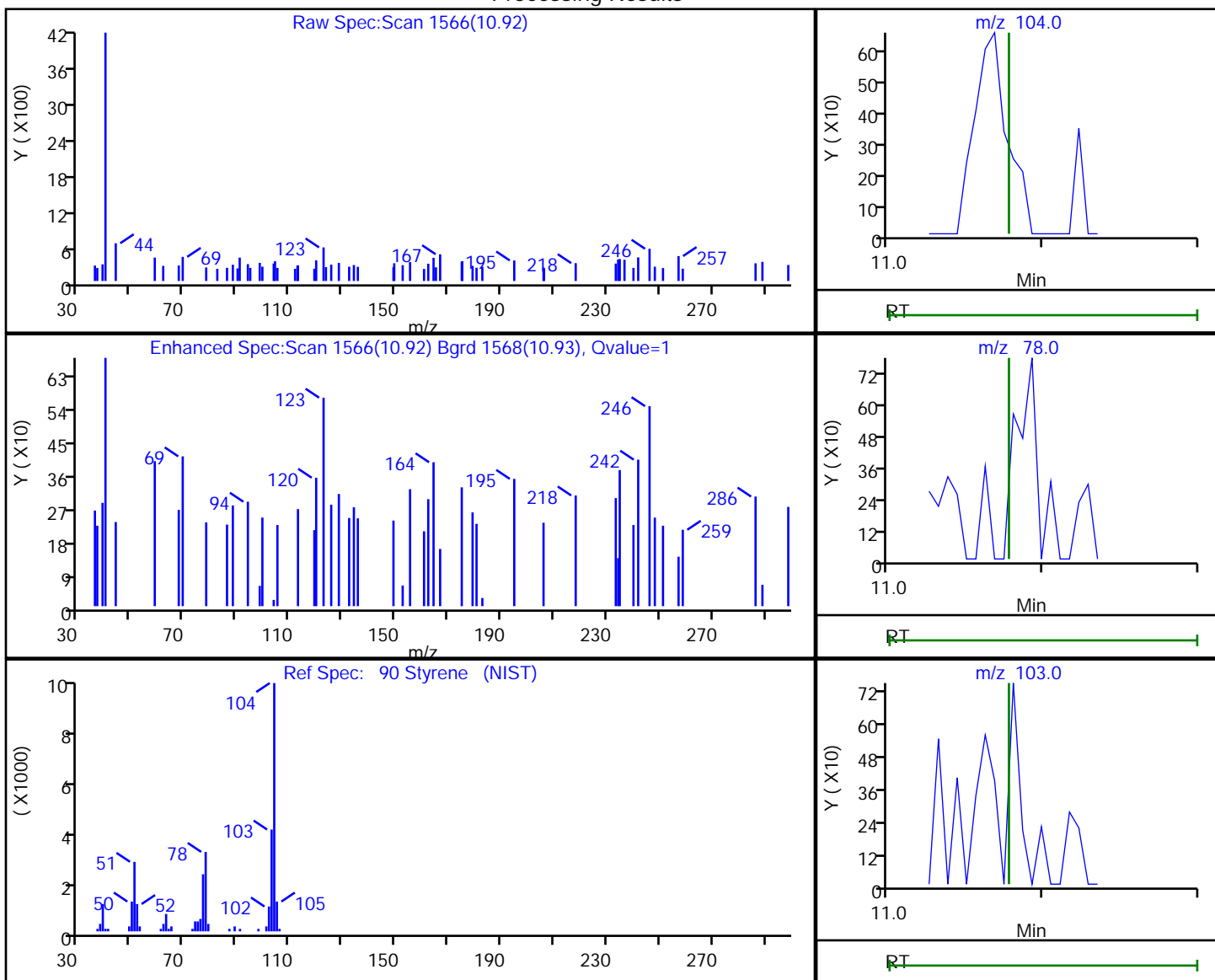
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012511.D  
 Injection Date: 25-Jan-2020 15:16:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-4 Lab Sample ID: 180-101459-4  
 Client ID: HD-COD-SW-16-0/1-0  
 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
10.92	104.00	392	0.047420
10.91	78.00	373	
10.91	103.00	137	

Reviewer: bowieh, 25-Jan-2020 15:36:49

Audit Action: Marked Compound Undetected

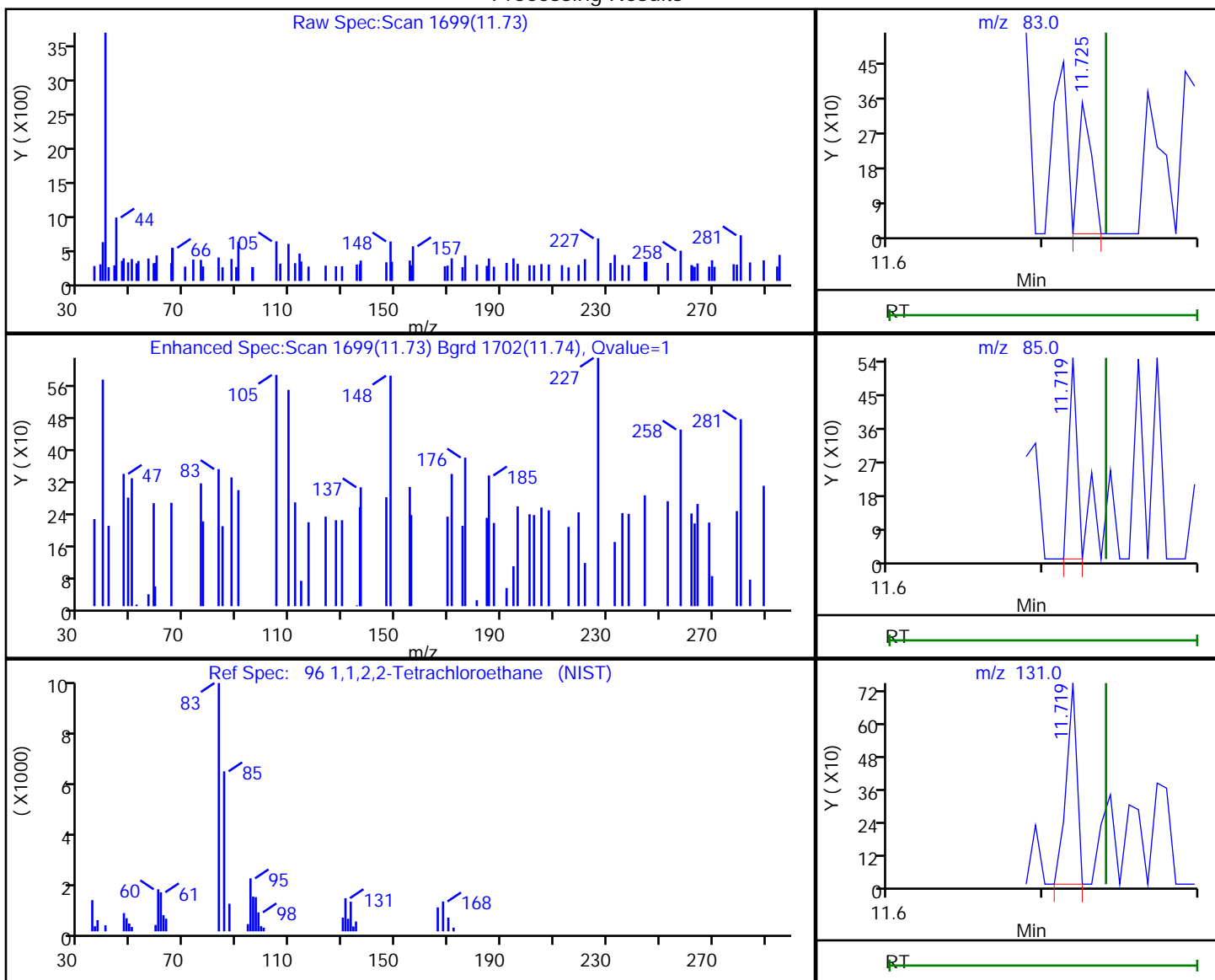
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012511.D  
 Injection Date: 25-Jan-2020 15:16:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-4 Lab Sample ID: 180-101459-4  
 Client ID: HD-COD-SW-16-0/1-0  
 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
11.73	83.00	202	0.086855
11.72	85.00	199	
11.72	131.00	359	

Reviewer: bowieh, 25-Jan-2020 15:36:51

Audit Action: Marked Compound Undetected

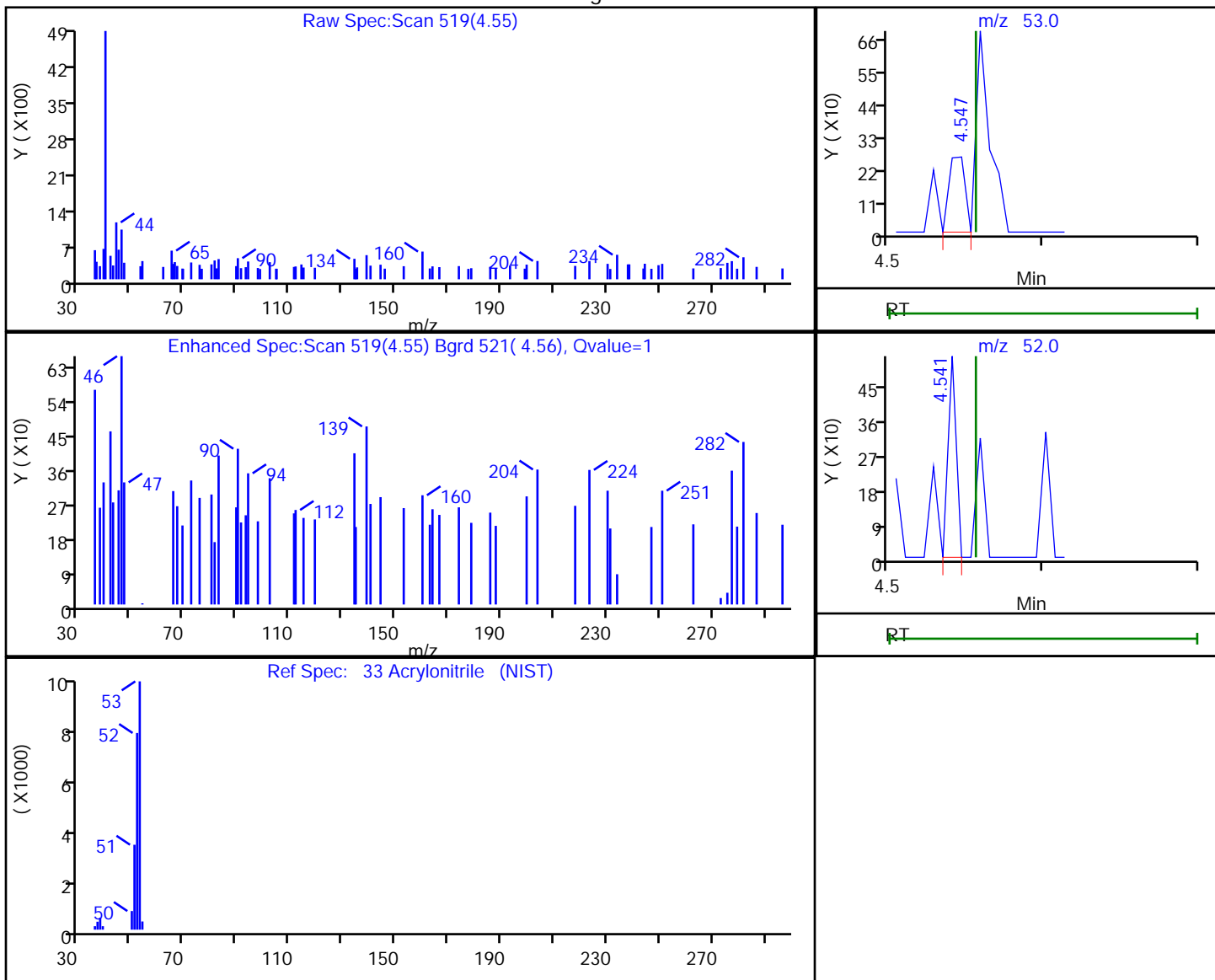
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012511.D  
 Injection Date: 25-Jan-2020 15:16:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-4 Lab Sample ID: 180-101459-4  
 Client ID: HD-COD-SW-16-0/1-0  
 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
4.55	53.00	185	0.186557
4.54	52.00	193	

Reviewer: bowieh, 25-Jan-2020 15:36:04

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.: 180-101459-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: HD-COD-SW-17-0/1-0 Lab Sample ID: 180-101459-5  
 Matrix: Water Lab File ID: 6012512.D  
 Analysis Method: EPA 8260C Date Collected: 01/23/2020 11:05  
 Sample wt/vol: 5 (mL) Date Analyzed: 01/25/2020 15:43  
 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.: 304996 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	ND	^c	1.0	0.88
74-83-9	Bromomethane	ND	^c	1.0	0.89
75-00-3	Chloroethane	ND	^c	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	3.1		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.: 180-101459-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: HD-COD-SW-17-0/1-0 Lab Sample ID: 180-101459-5  
 Matrix: Water Lab File ID: 6012512.D  
 Analysis Method: EPA 8260C Date Collected: 01/23/2020 11:05  
 Sample wt/vol: 5 (mL) Date Analyzed: 01/25/2020 15:43  
 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.: 304996 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)	100		78-128
460-00-4	4-Bromofluorobenzene (Surr)	81		64-123
1868-53-7	Dibromofluoromethane (Surr)	106		75-147

Eurofins TestAmerica, Pittsburgh  
Target Compound Quantitation Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012512.D  
 Lims ID: 180-101459-B-5  
 Client ID: HD-COD-SW-17-0/1-0  
 Sample Type: Client  
 Inject. Date: 25-Jan-2020 15:43:30 ALS Bottle#: 6 Worklist Smp#: 12  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 180-0030512-012  
 Misc. Info.: 180-101459-b-5  
 Operator ID: 433269 Instrument ID: CHHP6  
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\MSVOA\_LL\_CHHP6.m  
 Limit Group: VOA 8260C\_D ICAL  
 Last Update: 25-Jan-2020 16:26:27 Calib Date: 31-Dec-2019 16:03:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123111.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0321

First Level Reviewer: bowieh

Date: 25-Jan-2020 16:26:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.314	4.319	-0.005	89	132457	1000.0	
* 2 Fluorobenzene (IS)	96	7.307	7.306	0.001	99	478847	50.0	
* 3 Chlorobenzene-d5	119	10.416	10.408	0.008	84	124990	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.758	12.757	0.001	94	181379	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.583	6.582	0.001	94	113908	52.8	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.954	6.953	0.001	97	129491	57.7	
\$ 7 Toluene-d8 (Surr)	98	8.956	8.954	0.002	94	464849	50.2	
\$ 8 4-Bromofluorobenzene (Surr	95	11.596	11.595	0.001	0	134221	40.6	
12 Chloromethane	50	1.850	1.837	0.013	71	4597	1.26	M
13 Vinyl chloride	62		1.952				ND	U
15 Bromomethane	94		2.287				ND	U
16 Chloroethane	64		2.421				ND	U
22 1,1-Dichloroethene	96		3.370				ND	U
24 Acetone	43	3.505	3.473	0.032	18	5552	4.75	M
26 Carbon disulfide	76		3.662				ND	U
31 Methylene Chloride	84		4.155				ND	
33 Acrylonitrile	53		4.556				ND	U
34 trans-1,2-Dichloroethene	96		4.574				ND	U
35 Methyl tert-butyl ether	73	4.600	4.611	-0.011	1	1412	0.2796	
37 1,1-Dichloroethane	63		5.219				ND	
43 cis-1,2-Dichloroethene	96	5.963	5.967	-0.004	70	13827	4.93	
44 2-Butanone (MEK)	43	5.975	5.980	-0.005	2	3057	2.08	
48 Chlorobromomethane	128		6.247				ND	
50 Chloroform	83		6.393				ND	
51 1,1,1-Trichloroethane	97	6.559	6.558	0.001	4	1920	0.5943	
53 Carbon tetrachloride	117		6.722				ND	U
56 Benzene	78		6.959				ND	U
57 1,2-Dichloroethane	62		7.038				ND	U
61 Trichloroethene	130	7.690	7.689	0.001	91	19053	6.21	
64 1,2-Dichloropropane	63		7.963				ND	U
68 Dichlorobromomethane	83		8.249				ND	U

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
71 cis-1,3-Dichloropropene	75		8.699				ND	U
72 4-Methyl-2-pentanone (MIBK)	43		8.857				ND	U
73 Toluene	91	9.023	9.021	0.002	33	2368	0.2010	
74 trans-1,3-Dichloropropene	75		9.277				ND	U
76 1,1,2-Trichloroethane	97		9.472				ND	U
77 Tetrachloroethene	164	9.540	9.538	0.002	95	44921	15.4	
79 2-Hexanone	43		9.691				ND	U
81 Chlorodibromomethane	129		9.843				ND	U
82 Ethylene Dibromide	107		9.952				ND	U
84 Chlorobenzene	112		10.439				ND	U
86 1,1,1,2-Tetrachloroethane	131		10.530				ND	U
87 Ethylbenzene	106		10.542				ND	U
88 m-Xylene & p-Xylene	106		10.670				ND	U
89 o-Xylene	106		11.053				ND	U
90 Styrene	104		11.078				ND	U
91 Bromoform	173		11.254				ND	U
96 1,1,2,2-Tetrachloroethane	83		11.741				ND	U
S 131 Xylenes, Total	106		1.000				ND	

### QC Flag Legend

Review Flags

M - Manually Integrated

U - Marked Undetected

### Reagents:

VOA8260INT\_00103

Amount Added: 2.00

Units: uL

Run Reagent

VOA8260SURR\_00103

Amount Added: 2.00

Units: uL

Run Reagent

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012512.D

Injection Date: 25-Jan-2020 15:43:30

Instrument ID: CHHP6

Operator ID: 433269

Lims ID: 180-101459-B-5

Lab Sample ID: 180-101459-5

Worklist Smp#: 12

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

Purge Vol: 5.000 mL

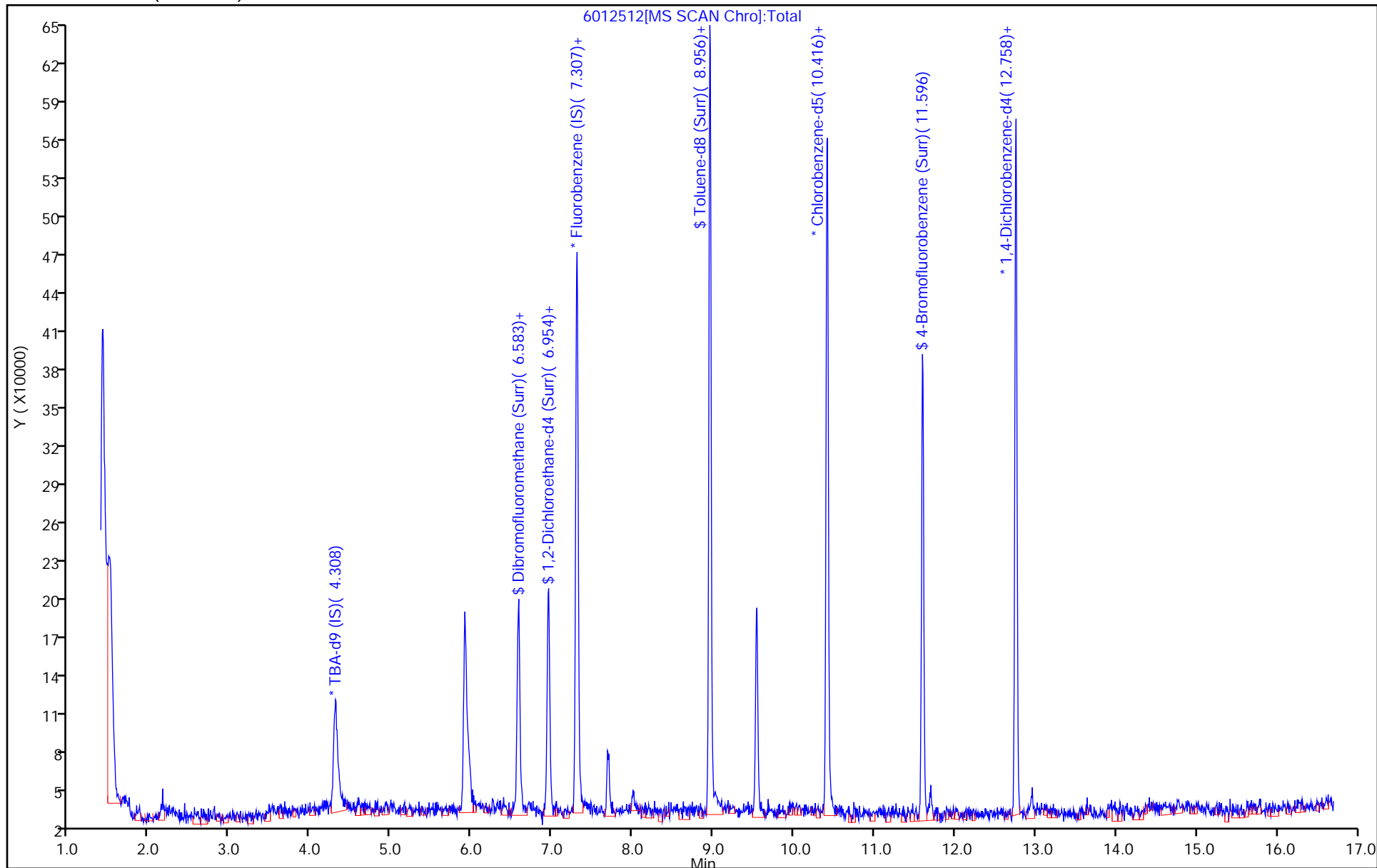
Dil. Factor: 1.0000

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\20200125-30512.b\6012512.D  
 Lims ID: 180-101459-B-5  
 Client ID: HD-COD-SW-17-0/1-0  
 Sample Type: Client  
 Inject. Date: 25-Jan-2020 15:43:30 ALS Bottle#: 6 Worklist Smp#: 12  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 180-0030512-012  
 Misc. Info.: 180-101459-b-5  
 Operator ID: 433269 Instrument ID: CHHP6  
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\MSVOA\_LL\_CHHP6.m  
 Limit Group: VOA 8260C\_D ICAL  
 Last Update: 25-Jan-2020 16:26:27 Calib Date: 31-Dec-2019 16:03:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123111.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0321

First Level Reviewer: bowieh

Date: 25-Jan-2020 16:26:27

Compound	Amount Added	Amount Recovered	% Rec.
\$ 5 Dibromofluoromethane (Surr)	50.0	52.8	105.58
\$ 6 1,2-Dichloroethane-d4 (Surr)	50.0	57.7	115.34
\$ 7 Toluene-d8 (Surr)	50.0	50.2	100.41
\$ 8 4-Bromofluorobenzene (Surr)	50.0	40.6	81.17

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012512.D

Injection Date: 25-Jan-2020 15:43:30

Instrument ID: CHHP6

Lims ID: 180-101459-B-5

Lab Sample ID: 180-101459-5

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

Operator ID: 433269

ALS Bottle#: 6

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

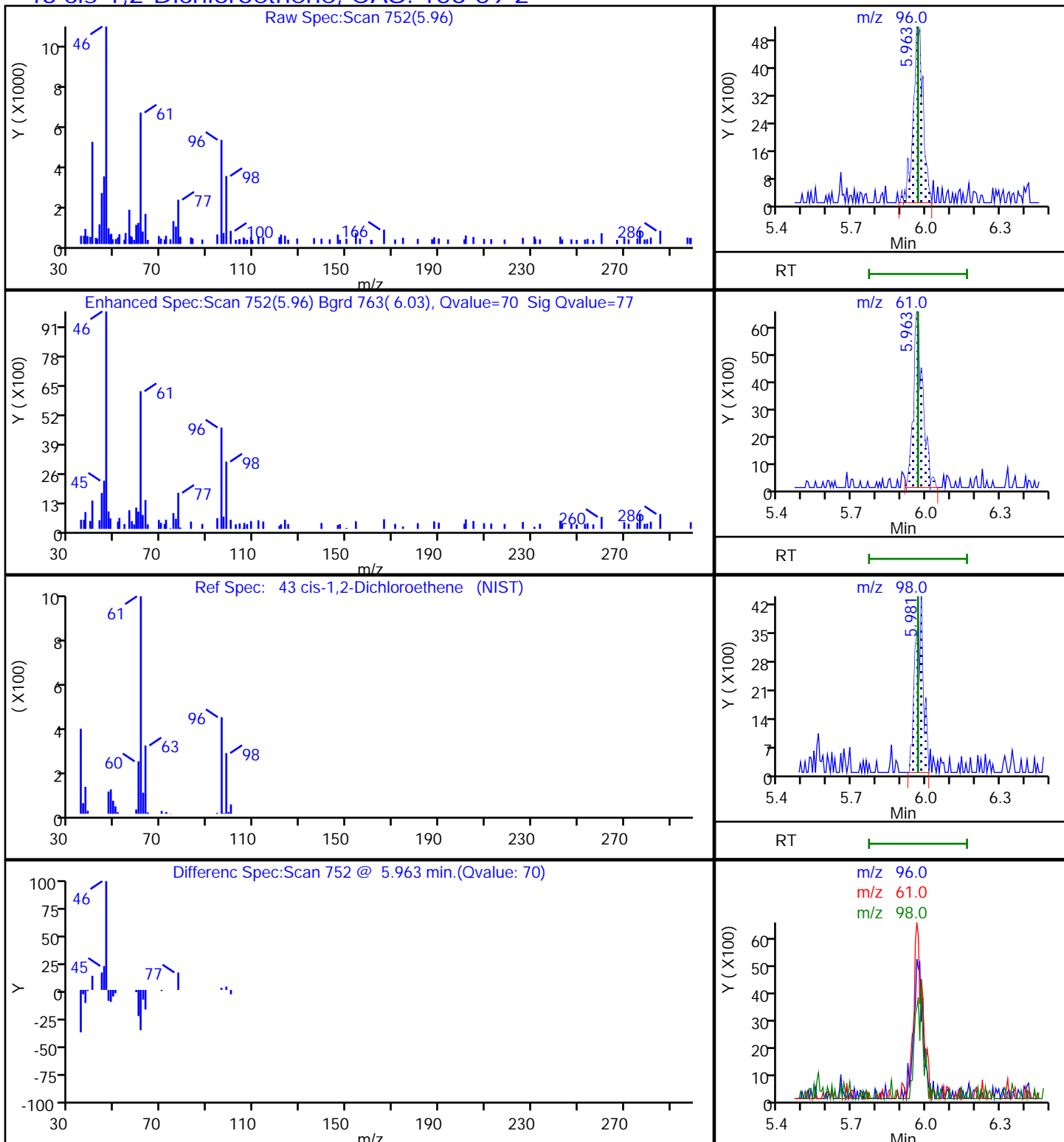
Method: MSVOA\_LL\_CHHP6

Limit Group: VOA 8260C\_D ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

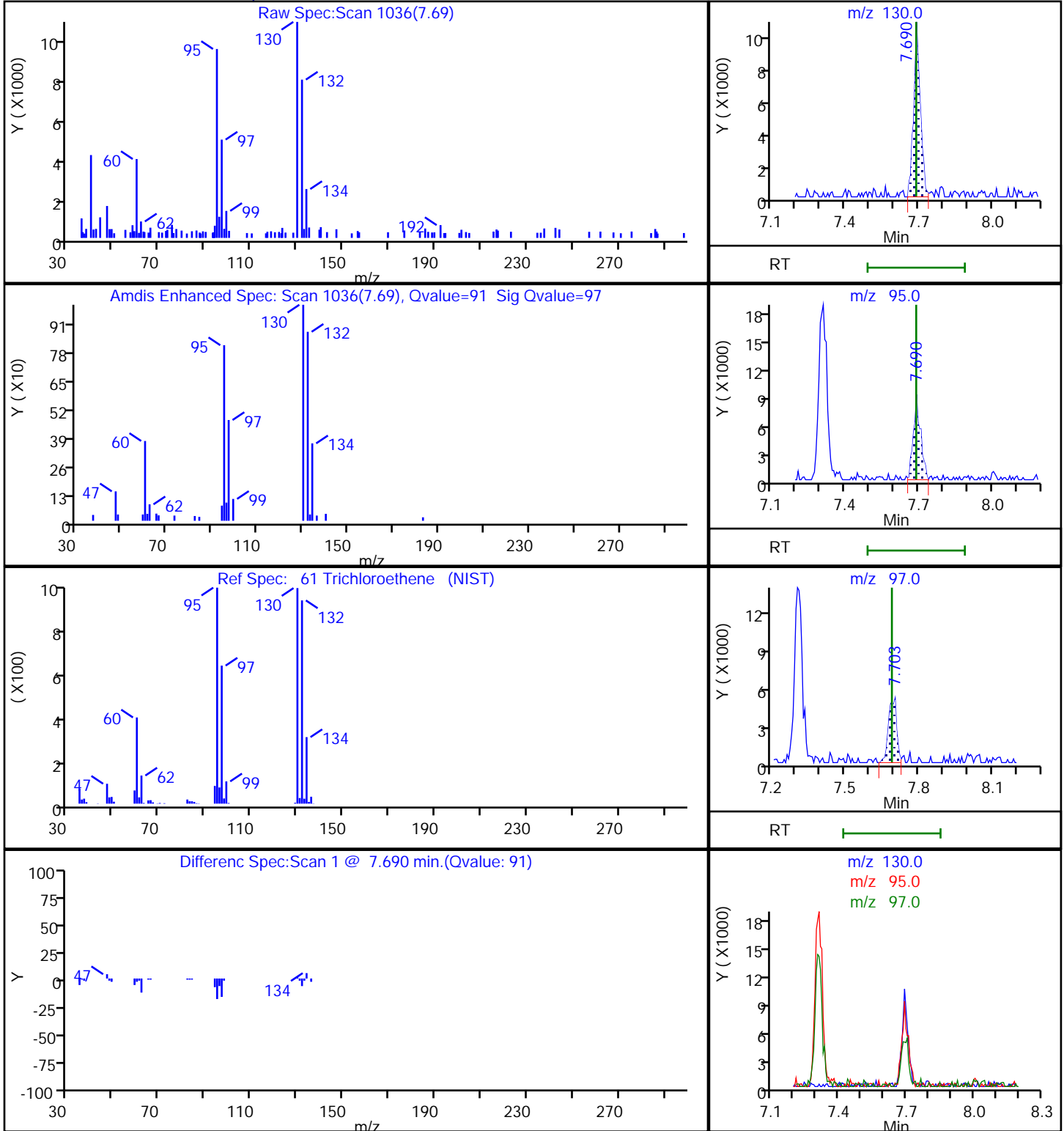
43 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012512.D  
Injection Date: 25-Jan-2020 15:43:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-5 Lab Sample ID: 180-101459-5  
Client ID: HD-COD-SW-17-0/1-0  
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

61 Trichloroethene, CAS: 79-01-6



Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012512.D

Injection Date: 25-Jan-2020 15:43:30

Instrument ID: CHHP6

Lims ID: 180-101459-B-5

Lab Sample ID: 180-101459-5

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

Operator ID: 433269

ALS Bottle#: 6

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

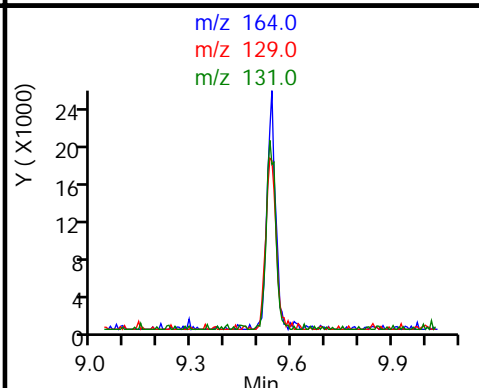
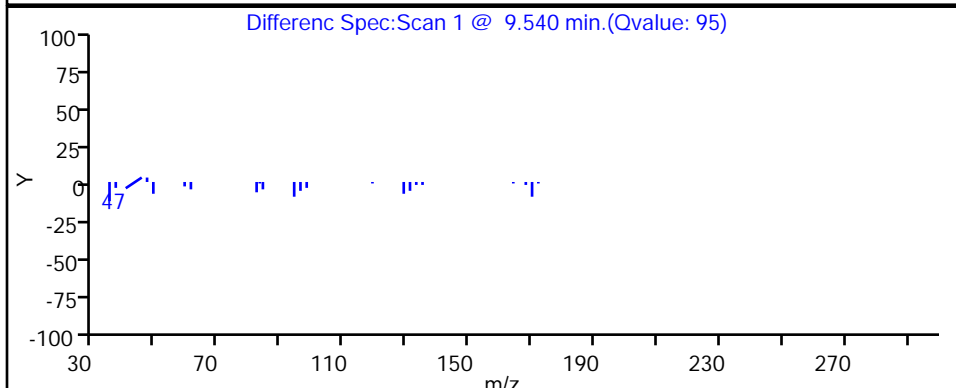
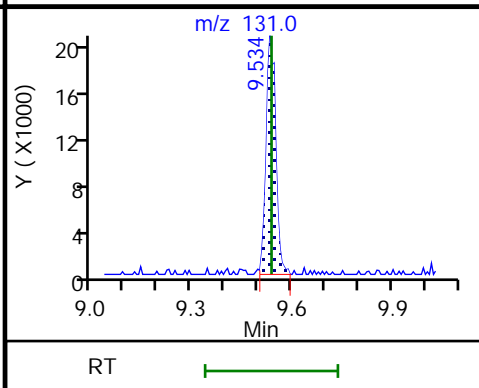
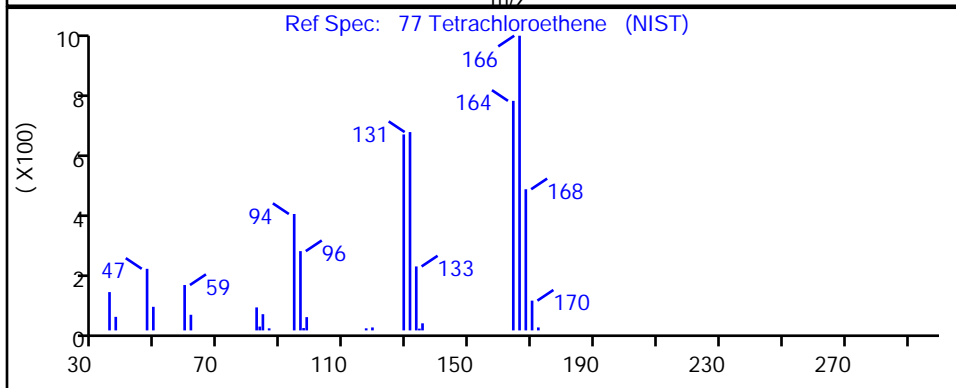
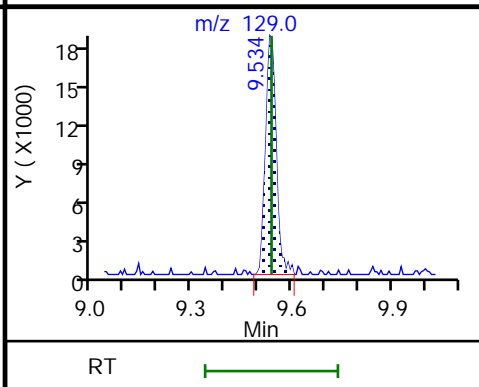
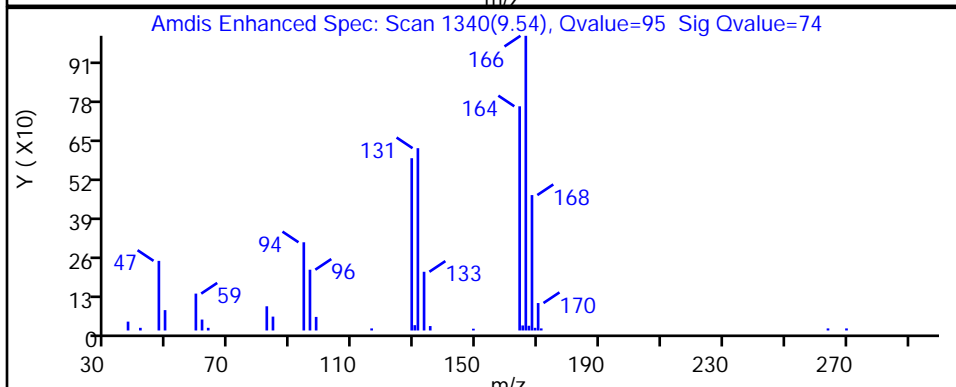
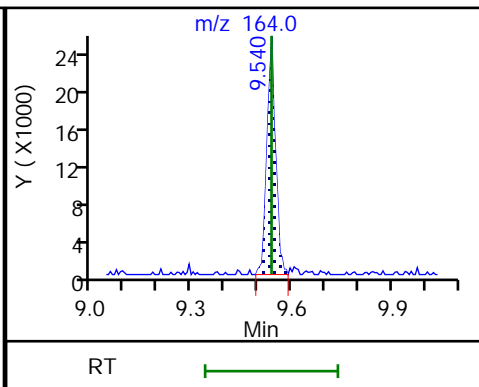
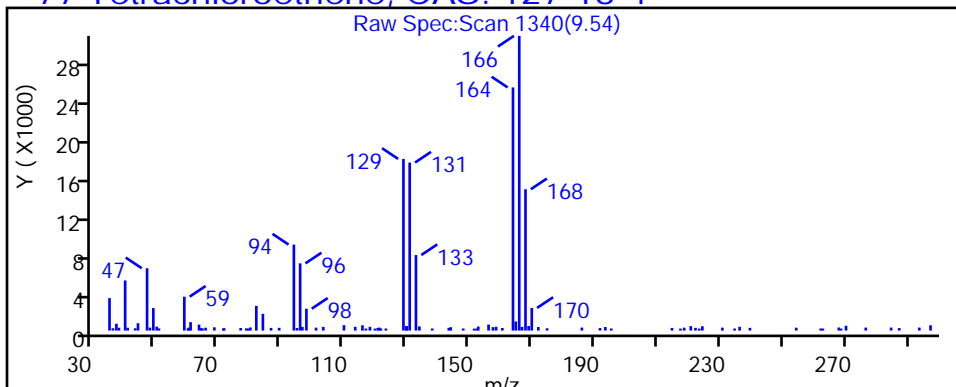
Method: MSVOA\_LL\_CHHP6

Limit Group: VOA 8260C\_D ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

77 Tetrachloroethene, CAS: 127-18-4





Eurofins TestAmerica, Pittsburgh

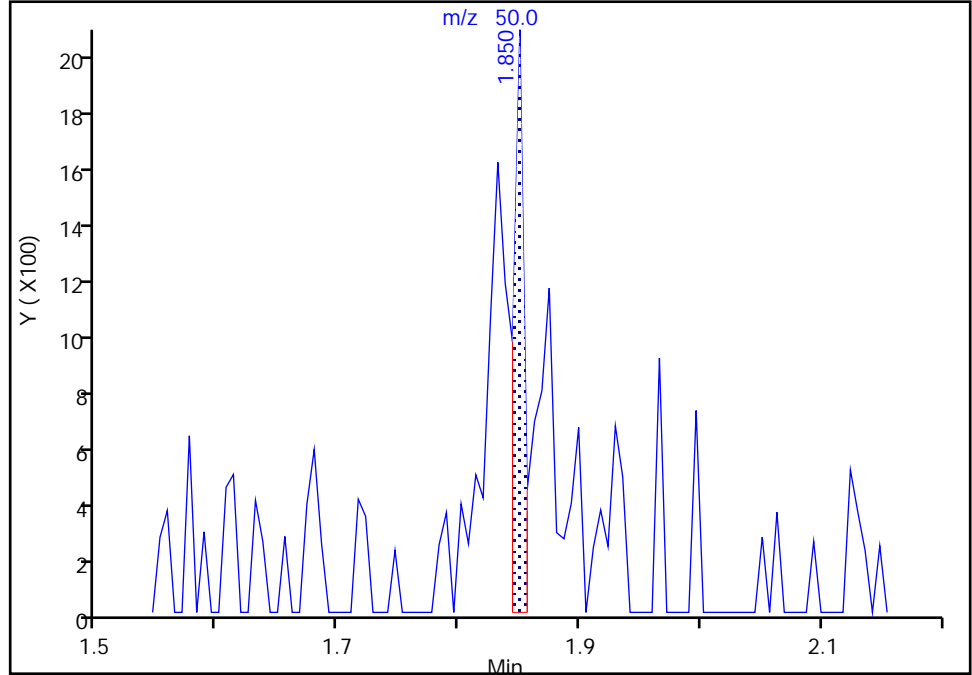
Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012512.D  
Injection Date: 25-Jan-2020 15:43:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-5 Lab Sample ID: 180-101459-5  
Client ID: HD-COD-SW-17-0/1-0  
Operator ID: 433269 ALS Bottle#: 6 Worklist Smp#: 12  
Purge Vol: 5.000 mL Dil. 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

Signal: 1

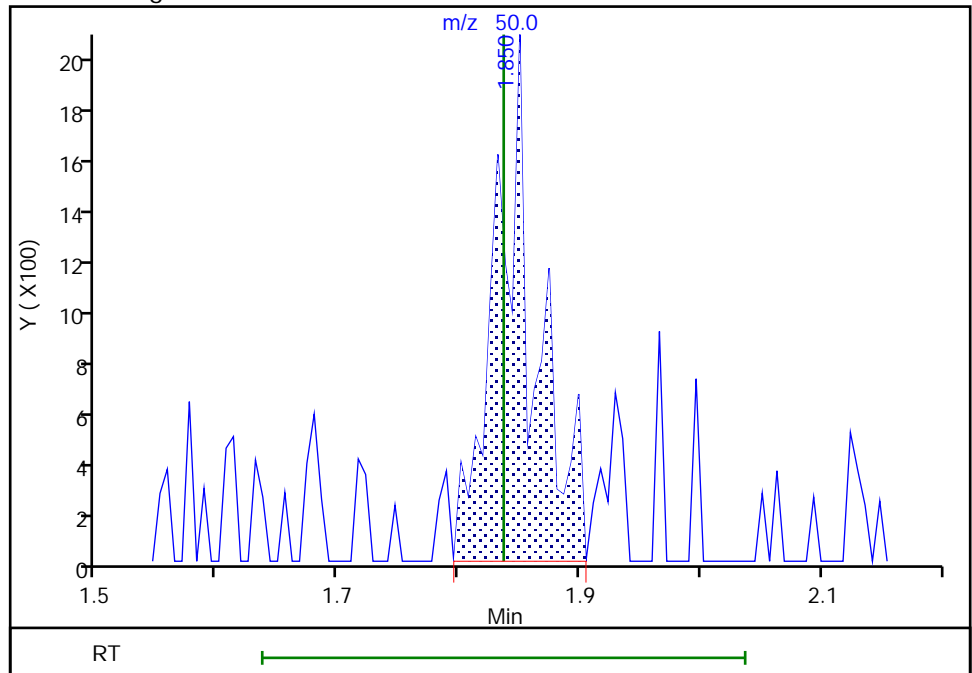
RT: 1.85  
Area: 1225  
Amount: 0.335694  
Amount Units: ng

Processing Integration Results



RT: 1.85  
Area: 4597  
Amount: 1.259744  
Amount Units: ng

Manual Integration Results



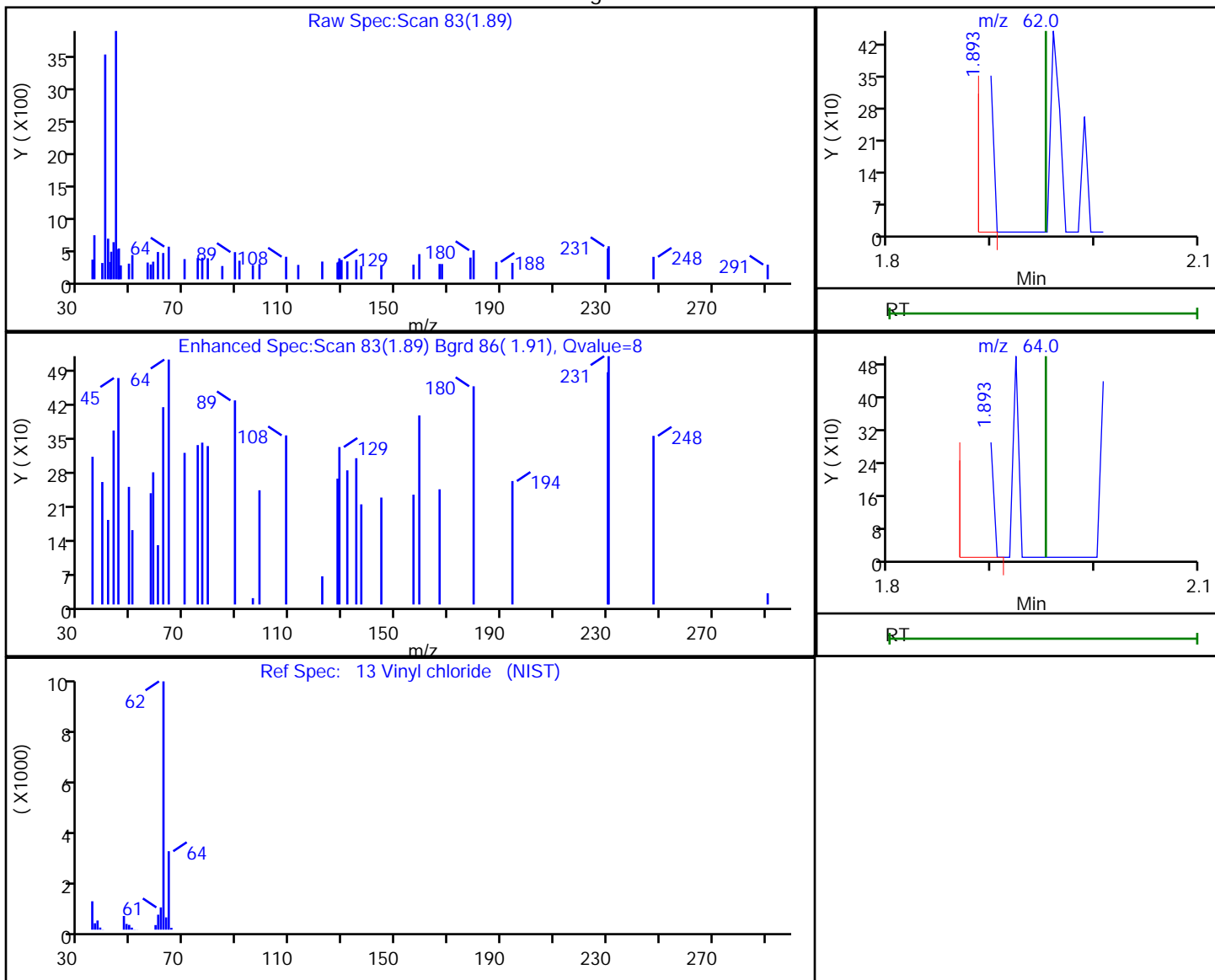
Reviewer: bowieh, 25-Jan-2020 16:25:14  
Audit Action: Manually Integrated

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012512.D  
Injection Date: 25-Jan-2020 15:43:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-5 Lab Sample ID: 180-101459-5  
Client ID: HD-COD-SW-17-0/1-0  
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
1.89	62.00	273	0.086936
1.89	64.00	510	

Reviewer: bowieh, 25-Jan-2020 16:25:16

Audit Action: Marked Compound Undetected

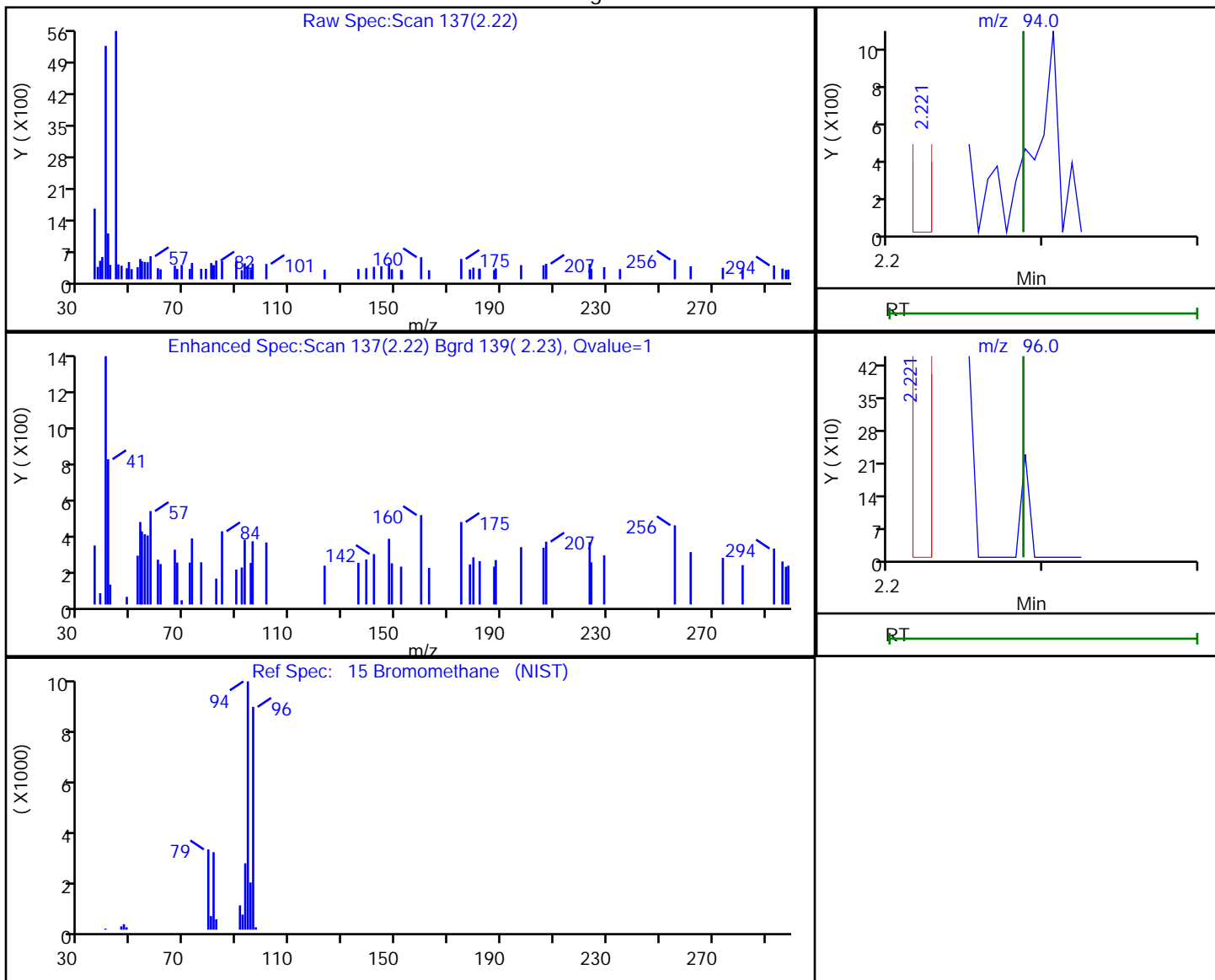
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012512.D  
 Injection Date: 25-Jan-2020 15:43:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-5 Lab Sample ID: 180-101459-5  
 Client ID: HD-COD-SW-17-0/1-0  
 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
2.22	94.00	201	0.100326
2.22	96.00	127	

Reviewer: bowieh, 25-Jan-2020 16:25:17

Audit Action: Marked Compound Undetected

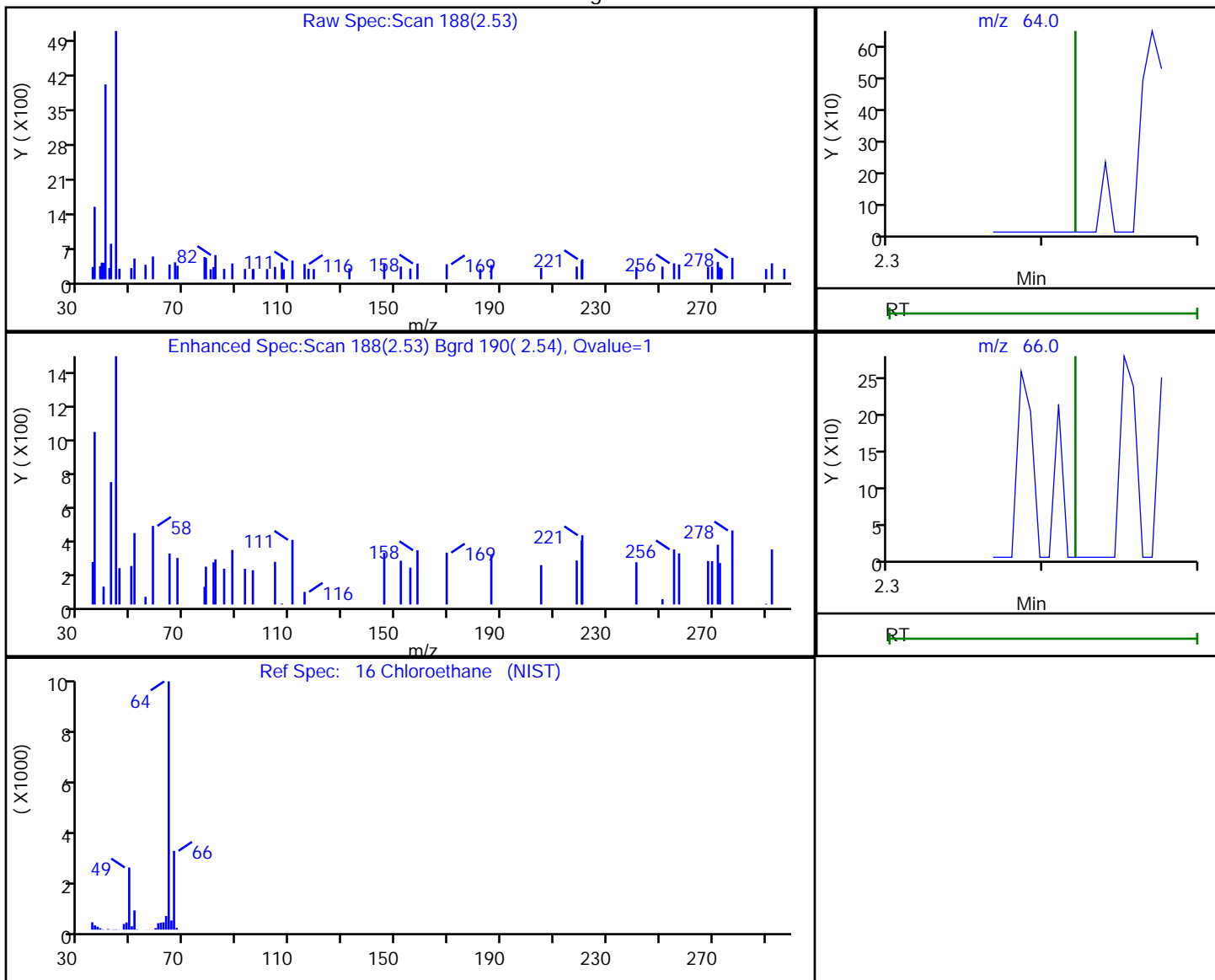
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012512.D  
 Injection Date: 25-Jan-2020 15:43:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-5 Lab Sample ID: 180-101459-5  
 Client ID: HD-COD-SW-17-0/1-0  
 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
2.53	64.00	198	0.086576
2.53	66.00	218	

Reviewer: bowieh, 25-Jan-2020 16:25:19

Audit Action: Marked Compound Undetected

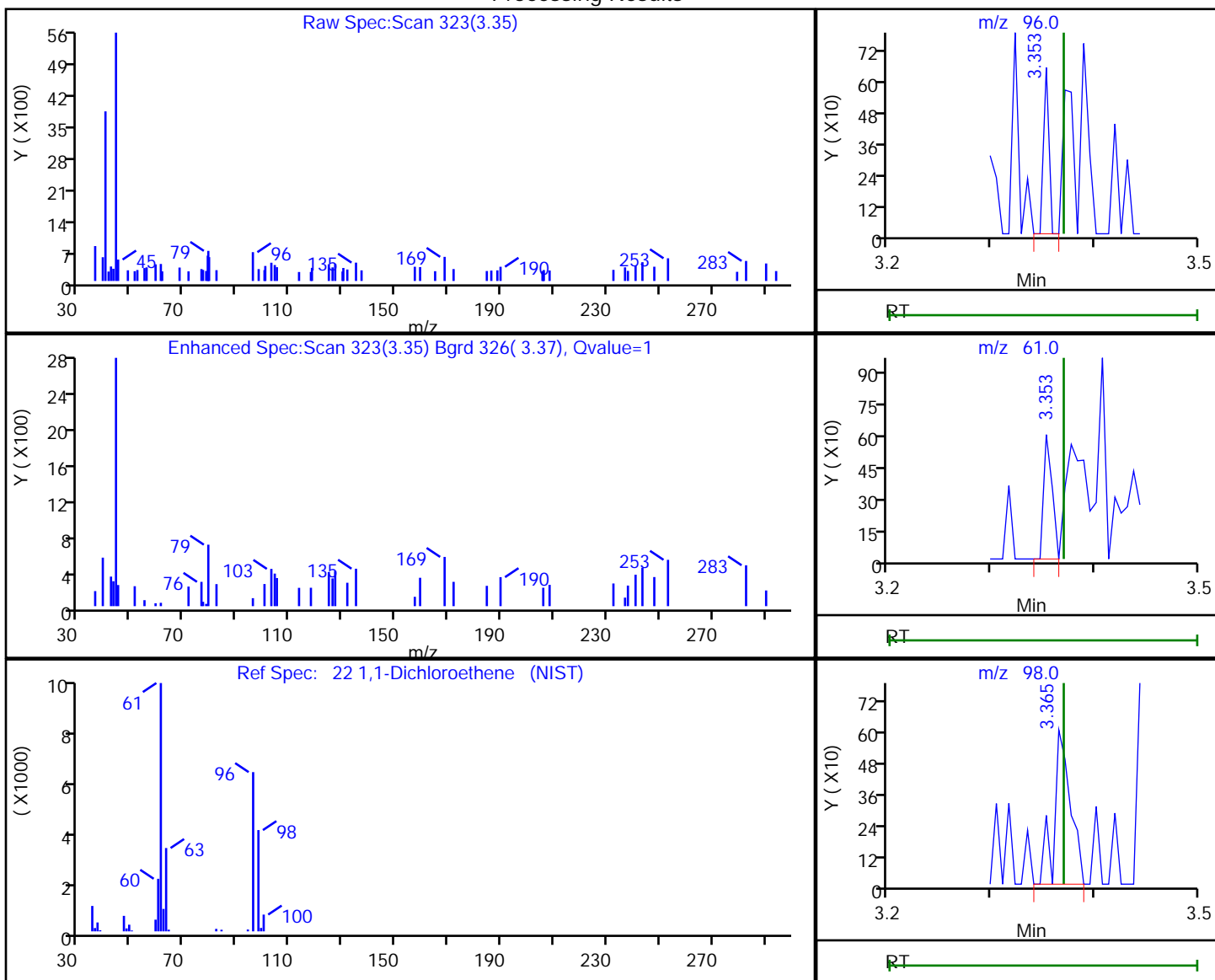
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012512.D  
 Injection Date: 25-Jan-2020 15:43:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-5 Lab Sample ID: 180-101459-5  
 Client ID: HD-COD-SW-17-0/1-0  
 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

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

Processing Results



RT	Mass	Response	Amount
3.35	96.00	237	0.103357
3.35	61.00	341	
3.37	98.00	667	

Reviewer: bowieh, 25-Jan-2020 16:25:20

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

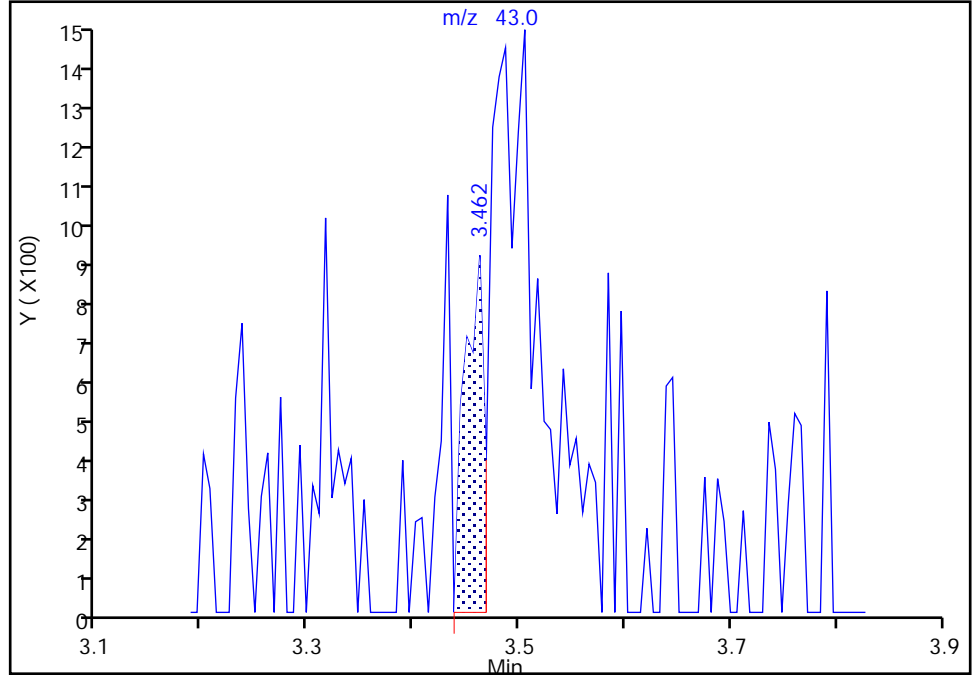
Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012512.D  
Injection Date: 25-Jan-2020 15:43:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-5 Lab Sample ID: 180-101459-5  
Client ID: HD-COD-SW-17-0/1-0  
Operator ID: 433269 ALS Bottle#: 6 Worklist Smp#: 12  
Purge Vol: 5.000 mL Dil. 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

Signal: 1

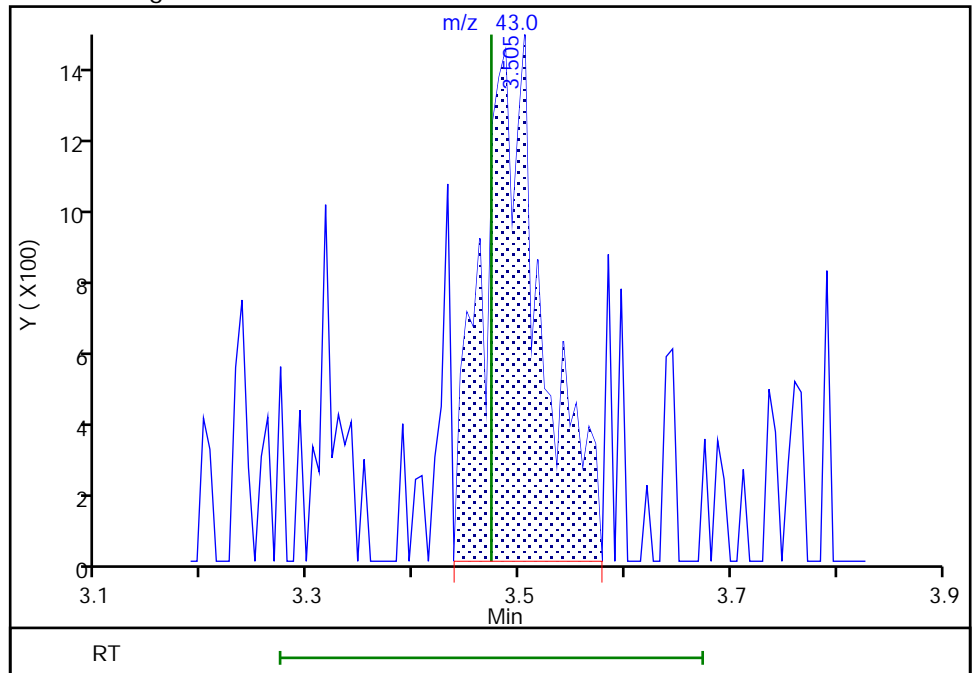
RT: 3.46  
Area: 1113  
Amount: 0.952323  
Amount Units: ng

Processing Integration Results



RT: 3.50  
Area: 5552  
Amount: 4.750494  
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 25-Jan-2020 16:25:28  
Audit Action: Manually Integrated

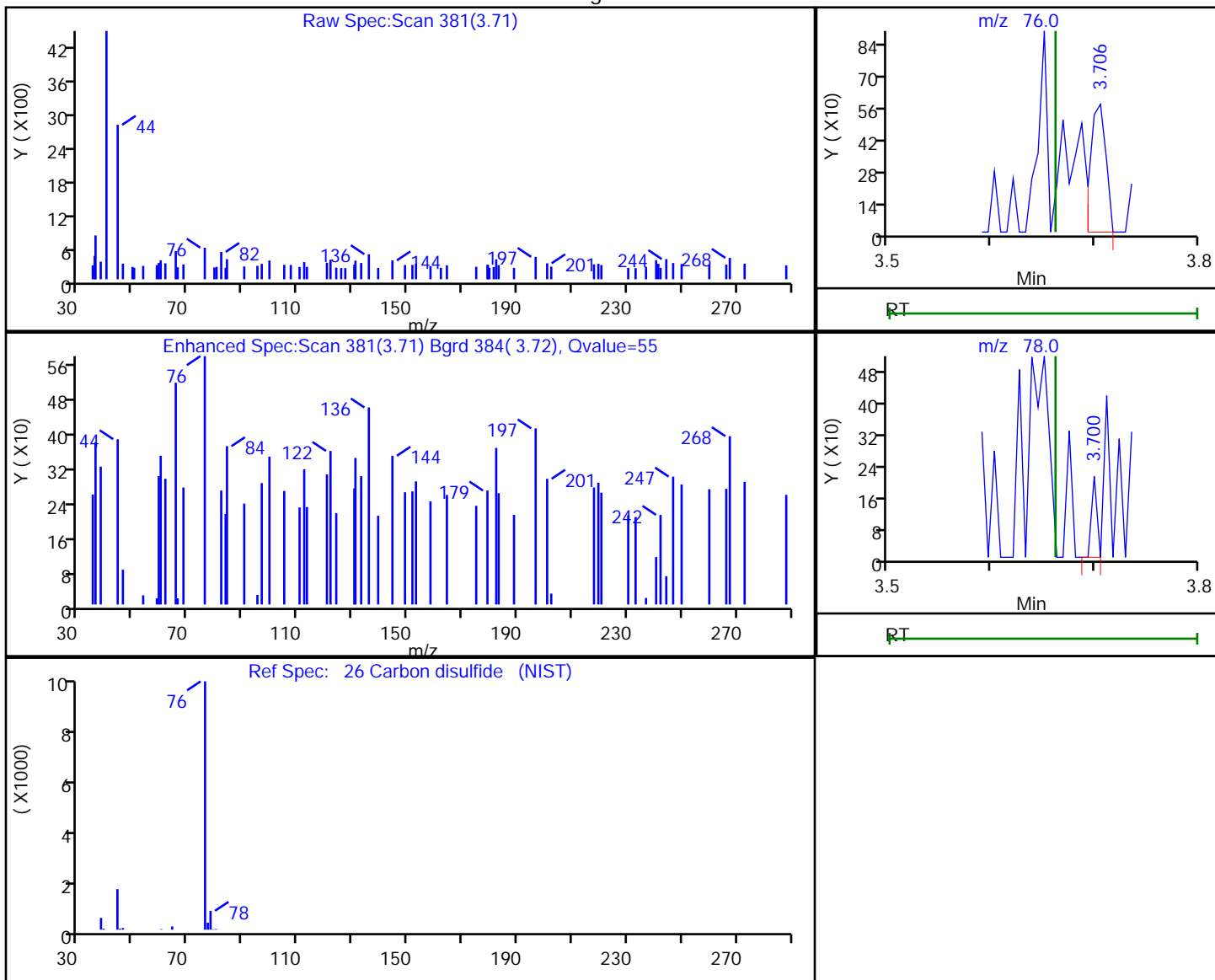
Audit Reason: Poor chromatography

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012512.D  
 Injection Date: 25-Jan-2020 15:43:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-5 Lab Sample ID: 180-101459-5  
 Client ID: HD-COD-SW-17-0/1-0  
 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
3.71	76.00	589	0.114183
3.70	78.00	76	

Reviewer: bowieh, 25-Jan-2020 16:25:30

Audit Action: Marked Compound Undetected

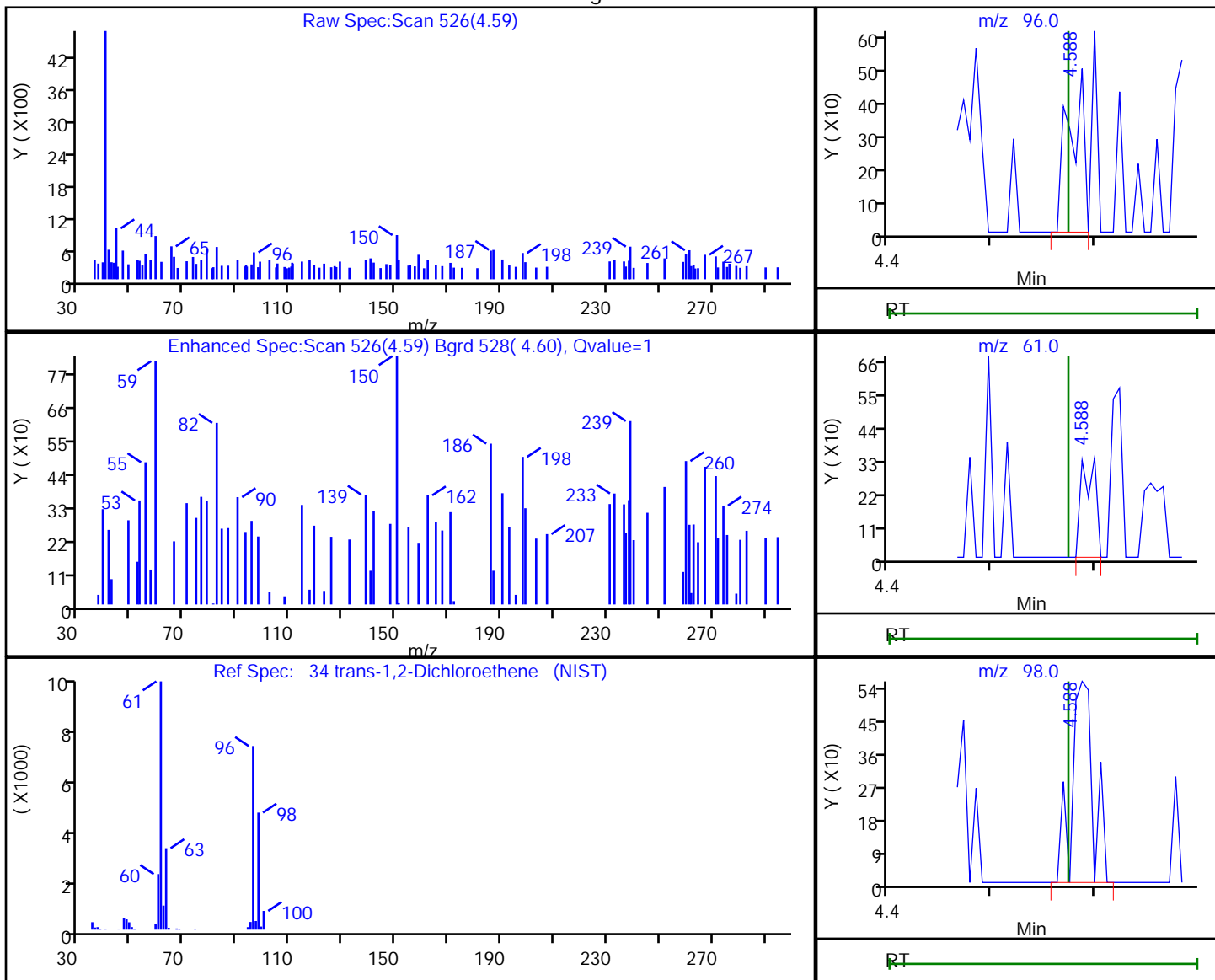
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012512.D  
Injection Date: 25-Jan-2020 15:43:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-5 Lab Sample ID: 180-101459-5  
Client ID: HD-COD-SW-17-0/1-0  
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
4.59	96.00	519	0.199106
4.59	61.00	315	
4.59	98.00	802	

Reviewer: bowieh, 25-Jan-2020 16:25:33

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID



Eurofins TestAmerica, Pittsburgh

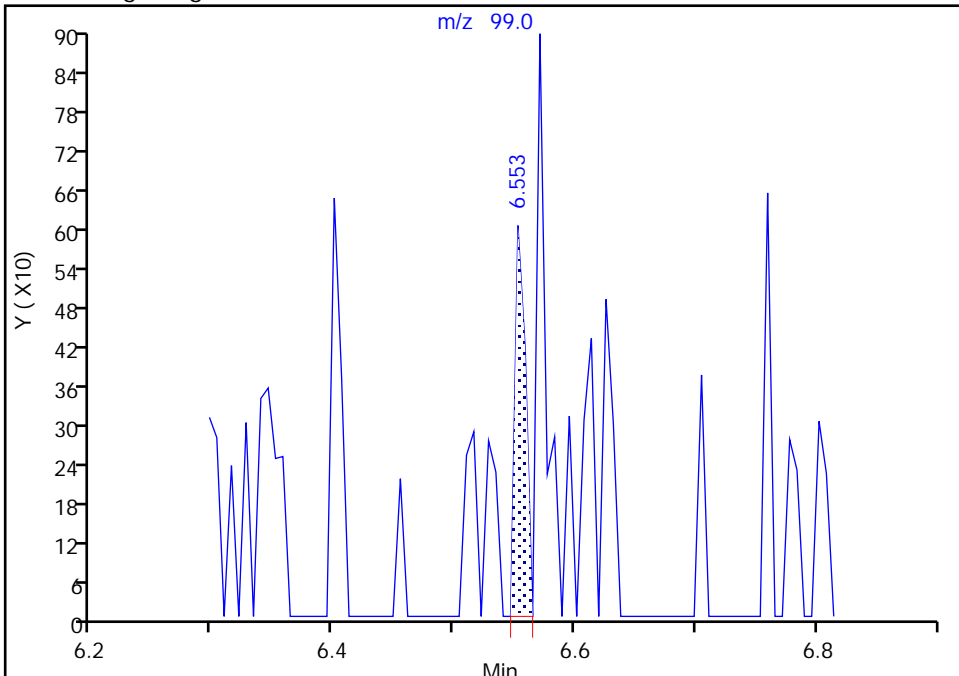
Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012512.D  
Injection Date: 25-Jan-2020 15:43:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-5 Lab Sample ID: 180-101459-5  
Client ID: HD-COD-SW-17-0/1-0  
Operator ID: 433269 ALS Bottle#: 6 Worklist Smp#: 12  
Purge Vol: 5.000 mL Dil. 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

Signal: 2

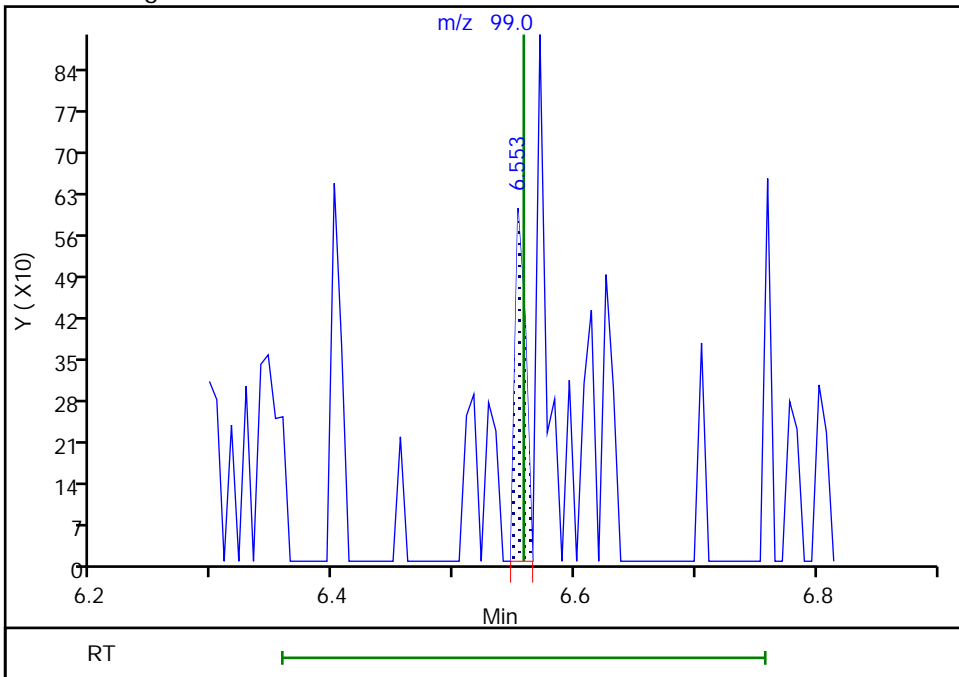
RT: 6.55  
Area: 368  
Amount: 0.594297  
Amount Units: ng

Processing Integration Results



RT: 6.55  
Area: 368  
Amount: 0.594297  
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 25-Jan-2020 16:25:44  
Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID  
Page 309 of 880

Eurofins TestAmerica, Pittsburgh

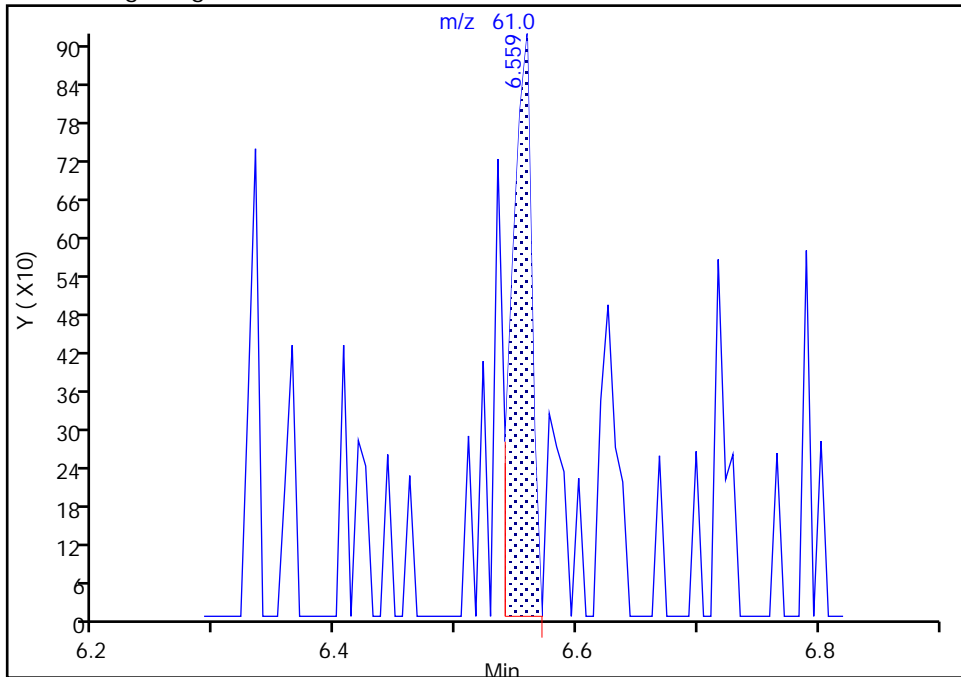
Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012512.D  
Injection Date: 25-Jan-2020 15:43:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-5 Lab Sample ID: 180-101459-5  
Client ID: HD-COD-SW-17-0/1-0  
Operator ID: 433269 ALS Bottle#: 6 Worklist Smp#: 12  
Purge Vol: 5.000 mL Dil. 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

Signal: 3

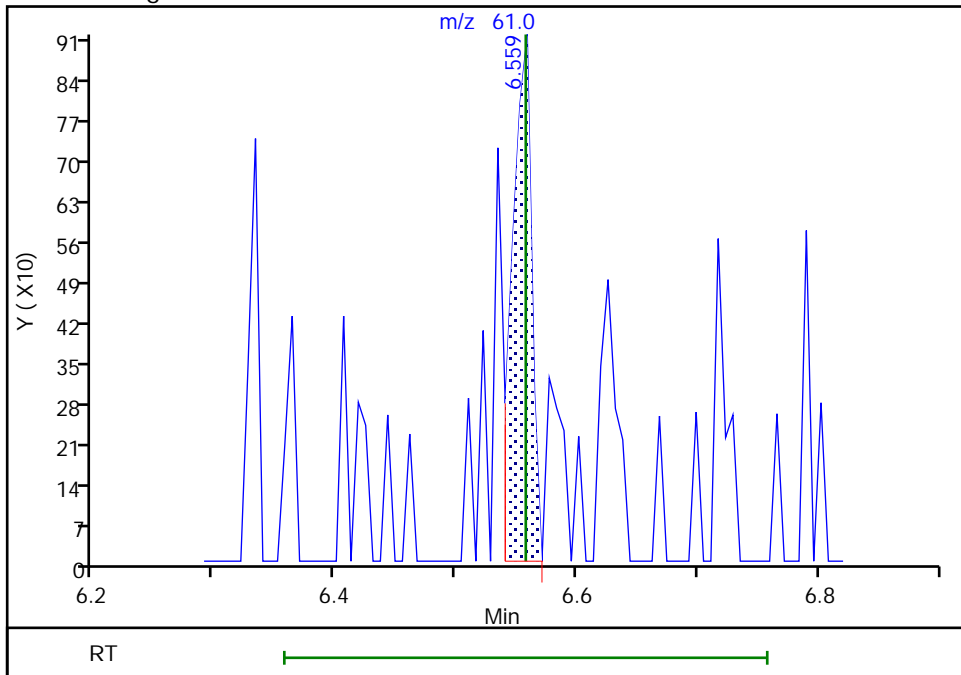
RT: 6.56  
Area: 1028  
Amount: 0.594297  
Amount Units: ng

Processing Integration Results



RT: 6.56  
Area: 1028  
Amount: 0.594297  
Amount Units: ng

Manual Integration Results



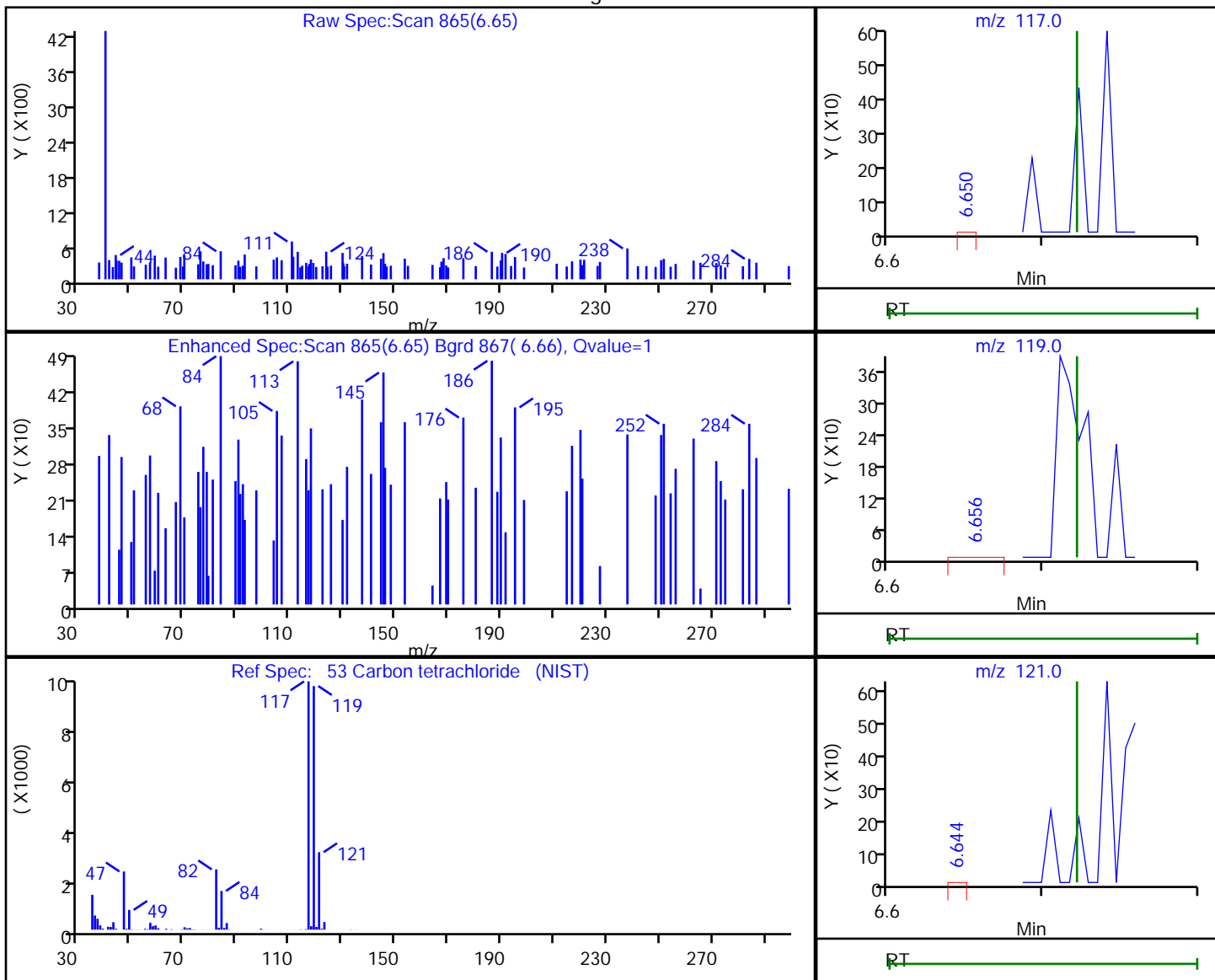
Reviewer: bowieh, 25-Jan-2020 16:25:44  
Audit Action: Marked Compound Undetected

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012512.D  
 Injection Date: 25-Jan-2020 15:43:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-5 Lab Sample ID: 180-101459-5  
 Client ID: HD-COD-SW-17-0/1-0  
 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
6.65	117.00	179	0.065880
6.66	119.00	783	
6.64	121.00	130	

Reviewer: bowieh, 25-Jan-2020 16:25:47

Audit Action: Marked Compound Undetected

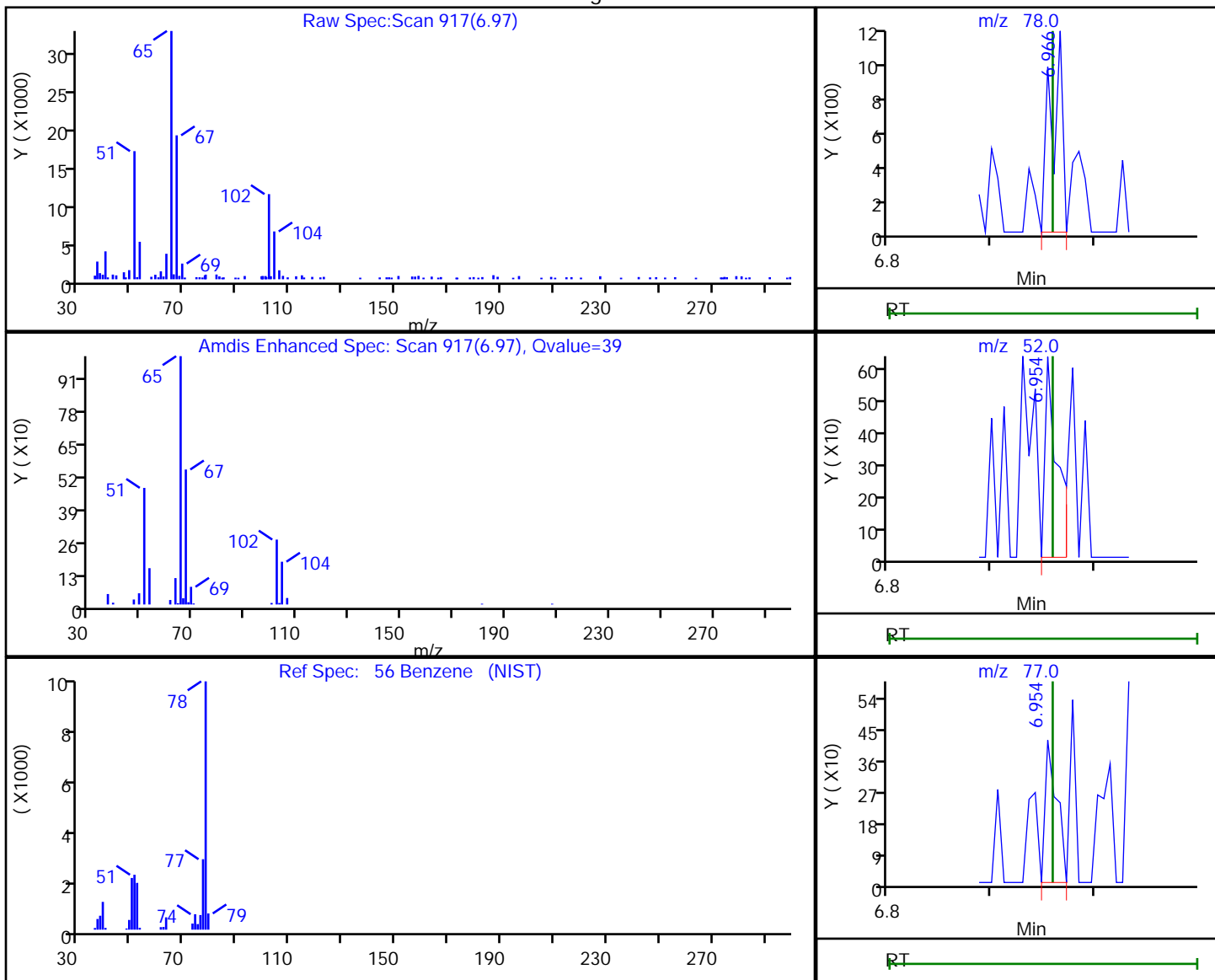
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012512.D  
 Injection Date: 25-Jan-2020 15:43:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-5 Lab Sample ID: 180-101459-5  
 Client ID: HD-COD-SW-17-0/1-0  
 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
6.97	78.00	863	0.083391
6.95	52.00	529	
6.95	77.00	329	

Reviewer: bowieh, 25-Jan-2020 16:25:48

Audit Action: Marked Compound Undetected

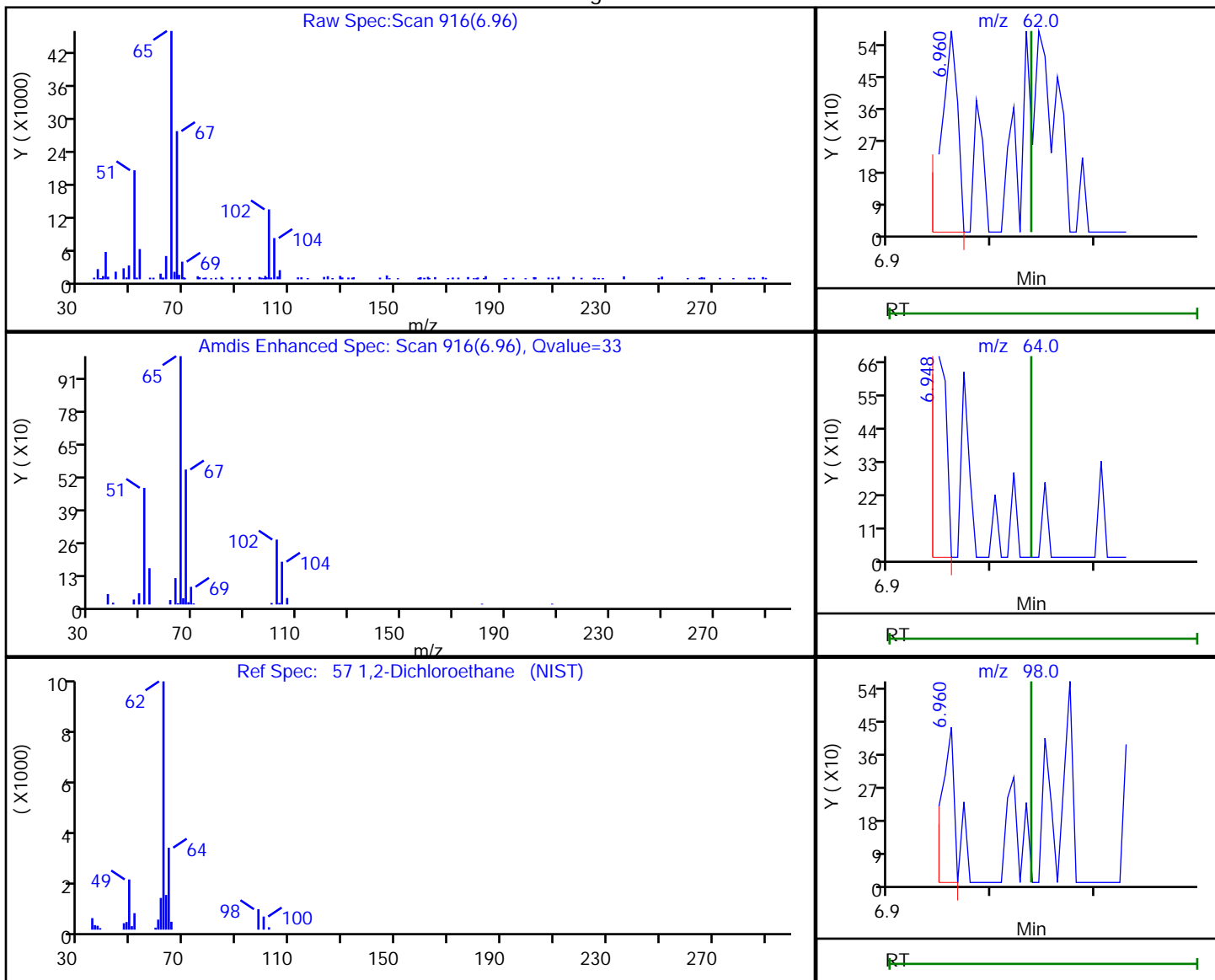
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012512.D  
 Injection Date: 25-Jan-2020 15:43:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-5 Lab Sample ID: 180-101459-5  
 Client ID: HD-COD-SW-17-0/1-0  
 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
6.96	62.00	564	0.197874
6.95	64.00	463	
6.96	98.00	339	

Reviewer: bowieh, 25-Jan-2020 16:25:49

Audit Action: Marked Compound Undetected

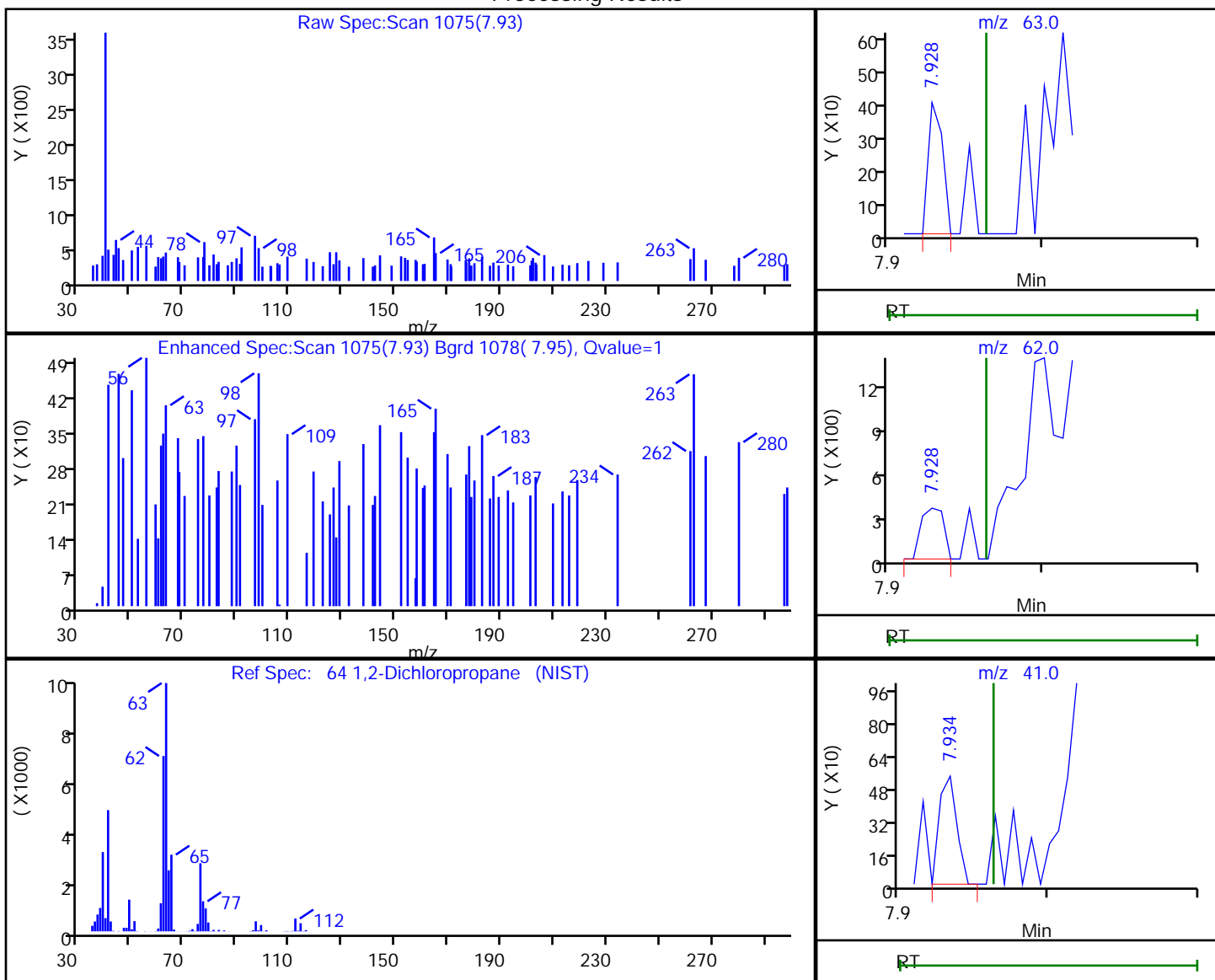
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Injection Date: 25-Jan-2020 15:43:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-5 Lab Sample ID: 180-101459-5  
 Client ID: HD-COD-SW-17-0/1-0  
 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
7.93	63.00	260	0.107325
7.93	62.00	352	
7.93	41.00	434	

Reviewer: bowieh, 25-Jan-2020 16:25:51

Audit Action: Marked Compound Undetected

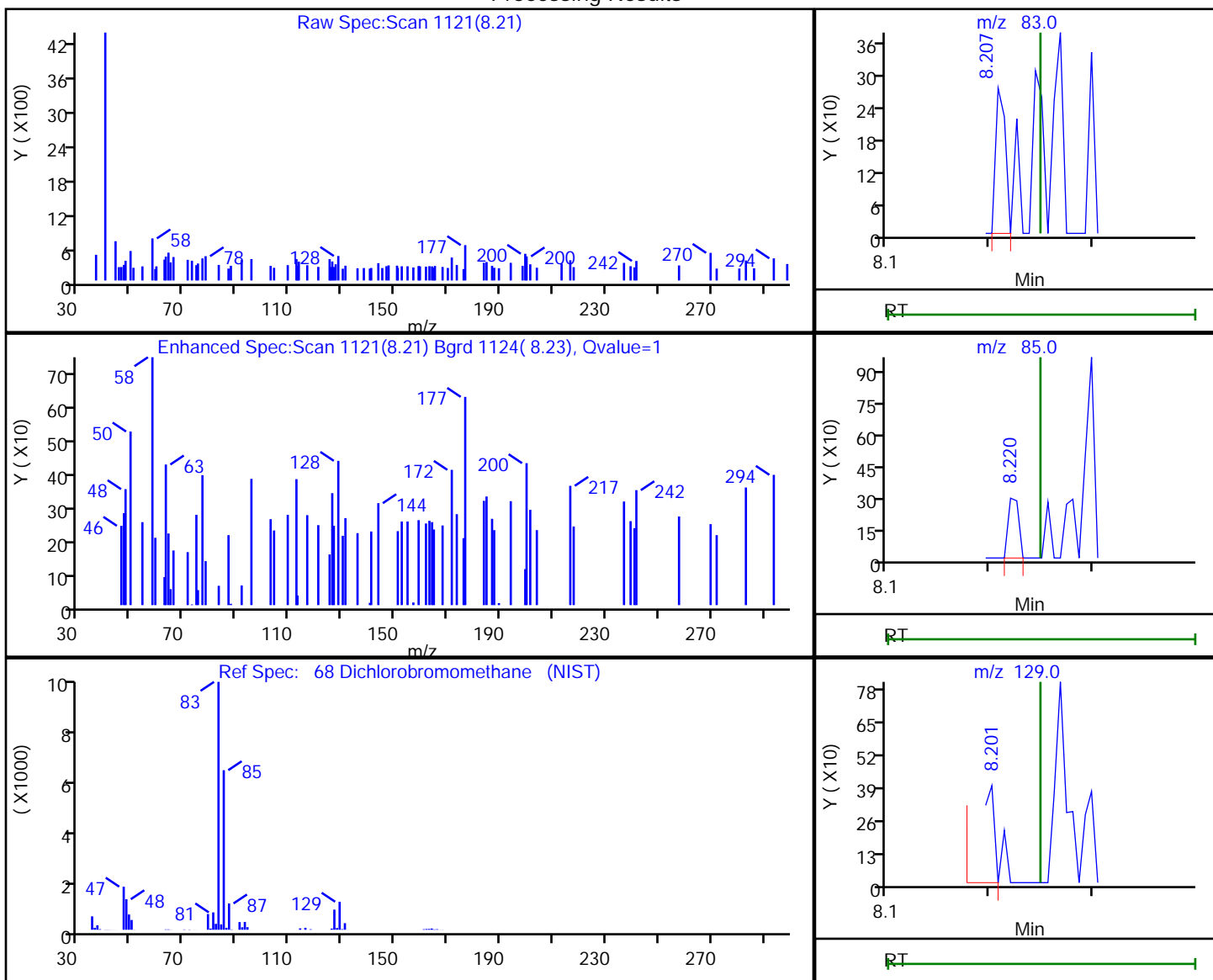
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Lims ID: 180-101459-B-5 Lab Sample ID: 180-101459-5  
 Client ID: HD-COD-SW-17-0/1-0  
 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
8.21	83.00	181	0.079930
8.22	85.00	205	
8.20	129.00	420	

Reviewer: bowieh, 25-Jan-2020 16:25:53

Audit Action: Marked Compound Undetected

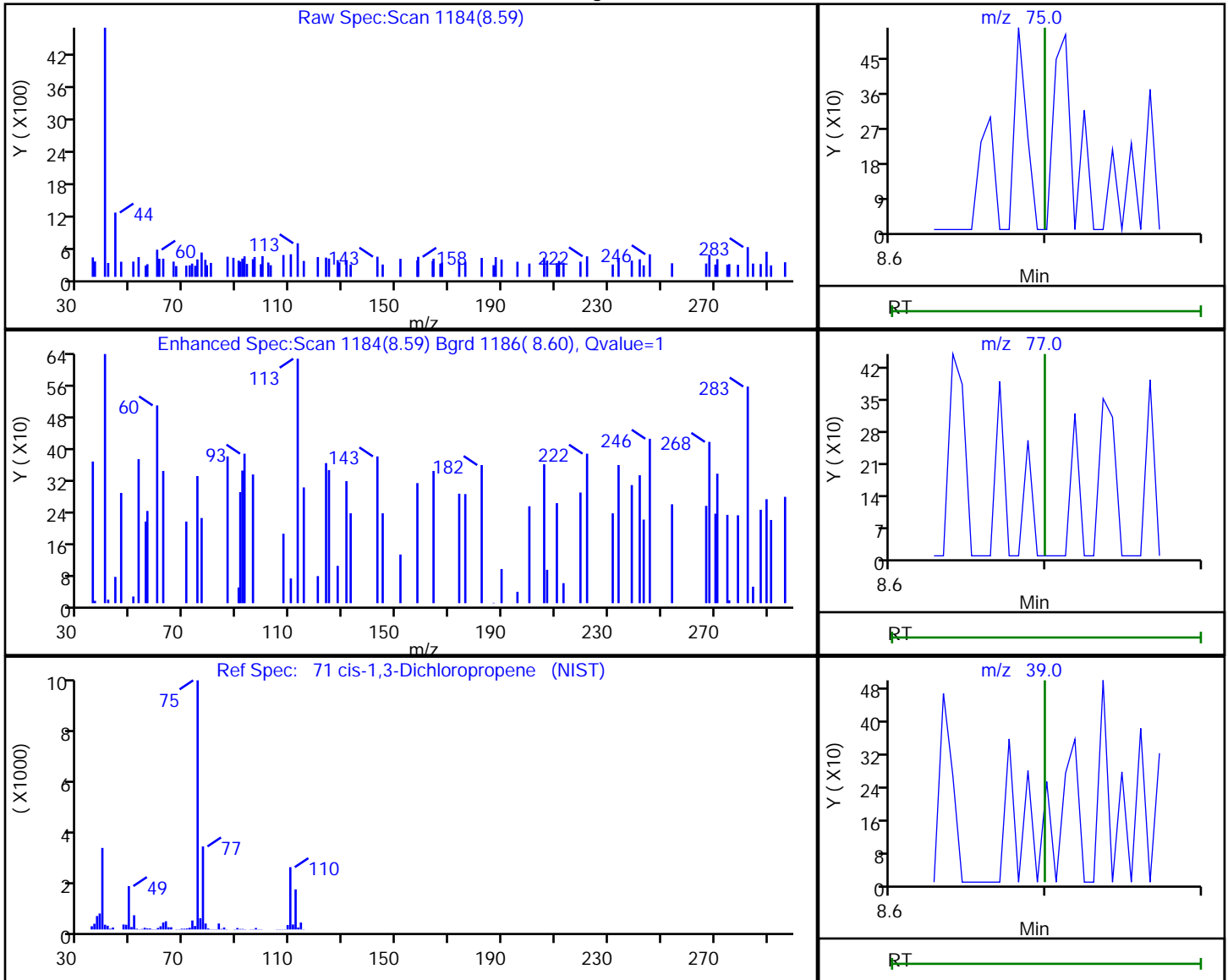
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012512.D  
 Injection Date: 25-Jan-2020 15:43:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-5 Lab Sample ID: 180-101459-5  
 Client ID: HD-COD-SW-17-0/1-0  
 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
8.59	75.00	297	0.101421
8.60	77.00	85	
8.58	39.00	106	

Reviewer: bowieh, 25-Jan-2020 16:25:54

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

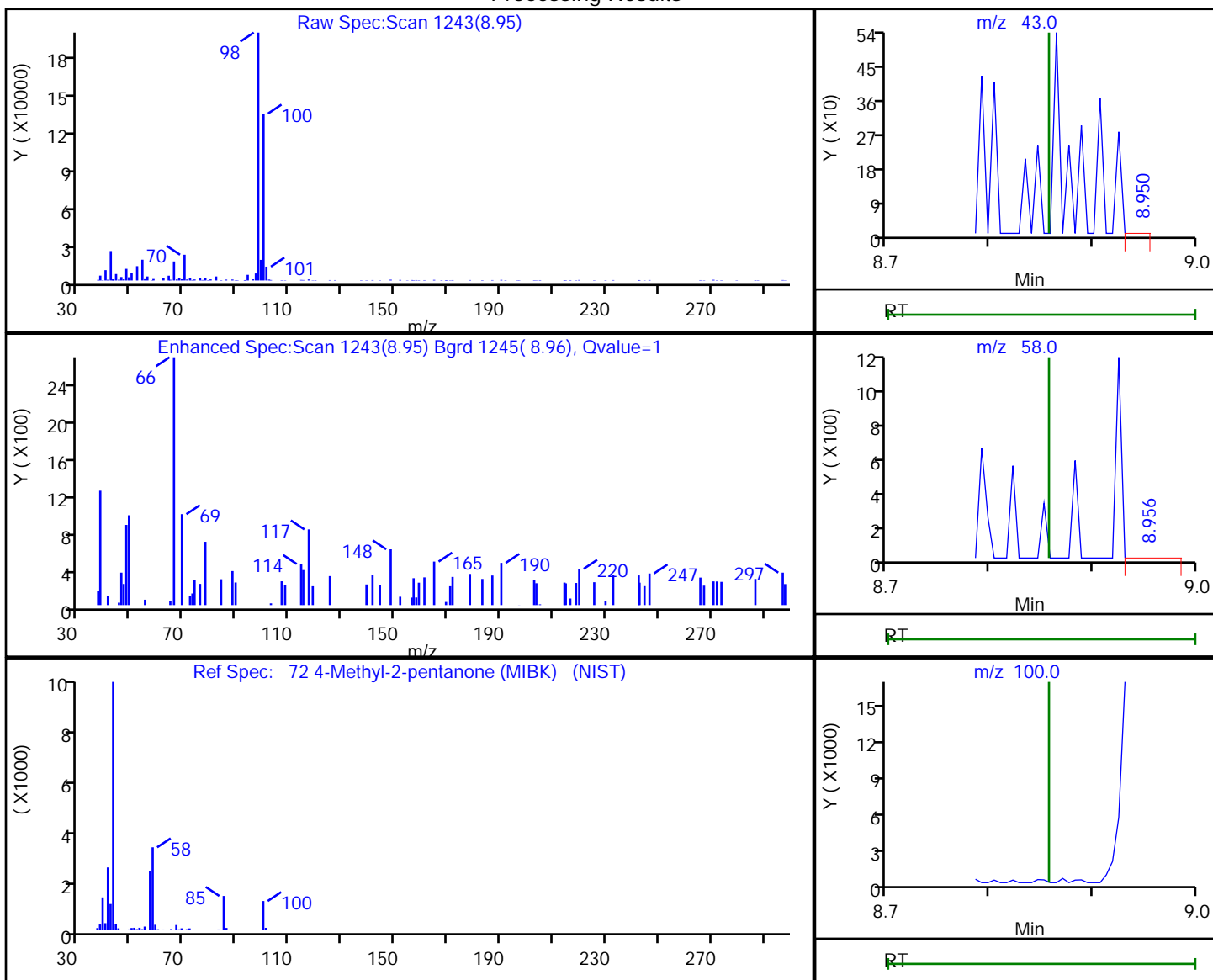


Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012512.D  
 Injection Date: 25-Jan-2020 15:43:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-5 Lab Sample ID: 180-101459-5  
 Client ID: HD-COD-SW-17-0/1-0  
 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
8.95	43.00	1448	0.653404
8.96	58.00	3951	
8.86	100.00	0	

Reviewer: bowieh, 25-Jan-2020 16:25:55

Audit Action: Marked Compound Undetected

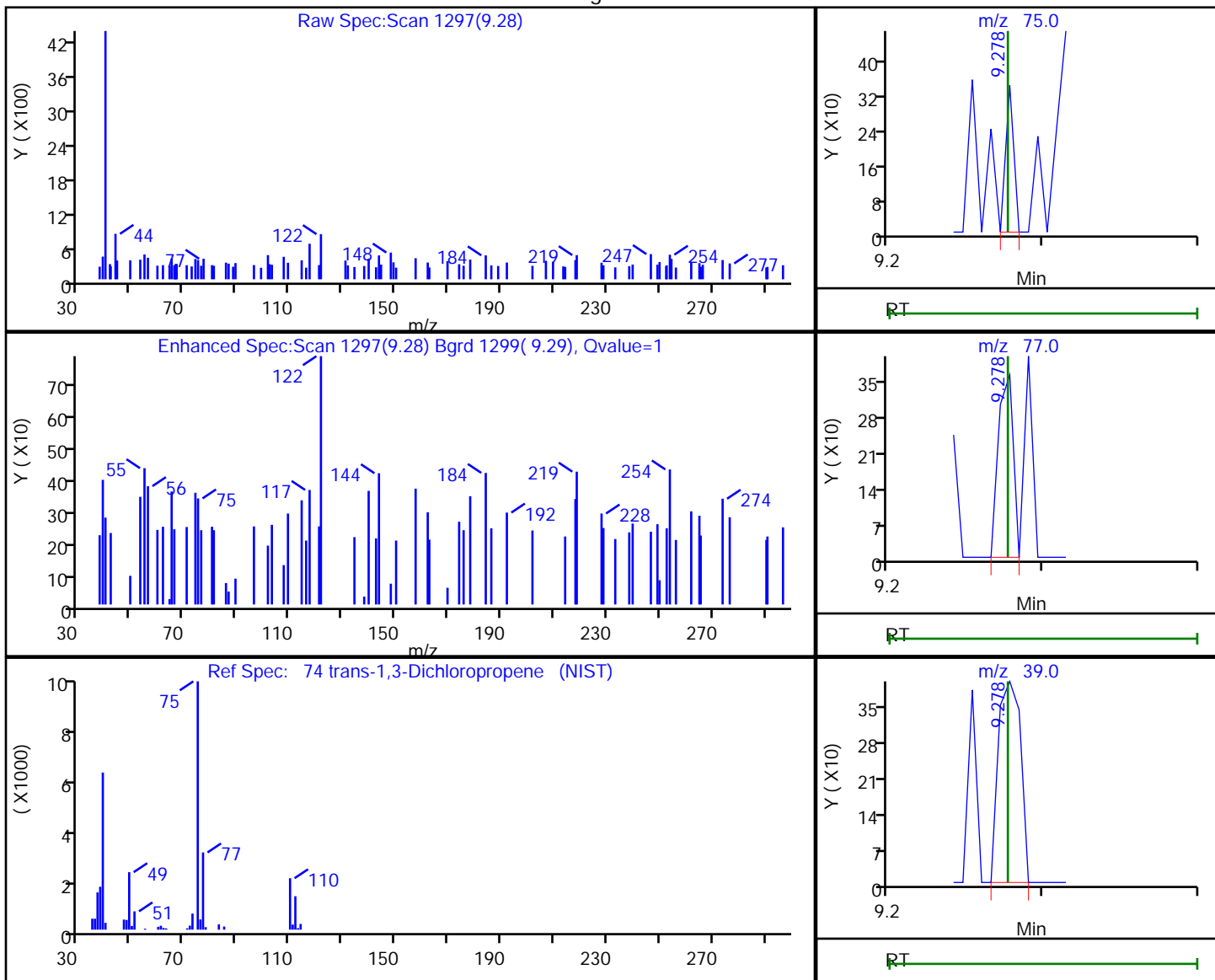
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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Injection Date: 25-Jan-2020 15:43:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-5 Lab Sample ID: 180-101459-5  
Client ID: HD-COD-SW-17-0/1-0  
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

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

Processing Results



RT	Mass	Response	Amount
9.28	75.00	123	0.047764
9.28	77.00	241	
9.28	39.00	396	

Reviewer: bowieh, 25-Jan-2020 16:25:58

Audit Action: Marked Compound Undetected

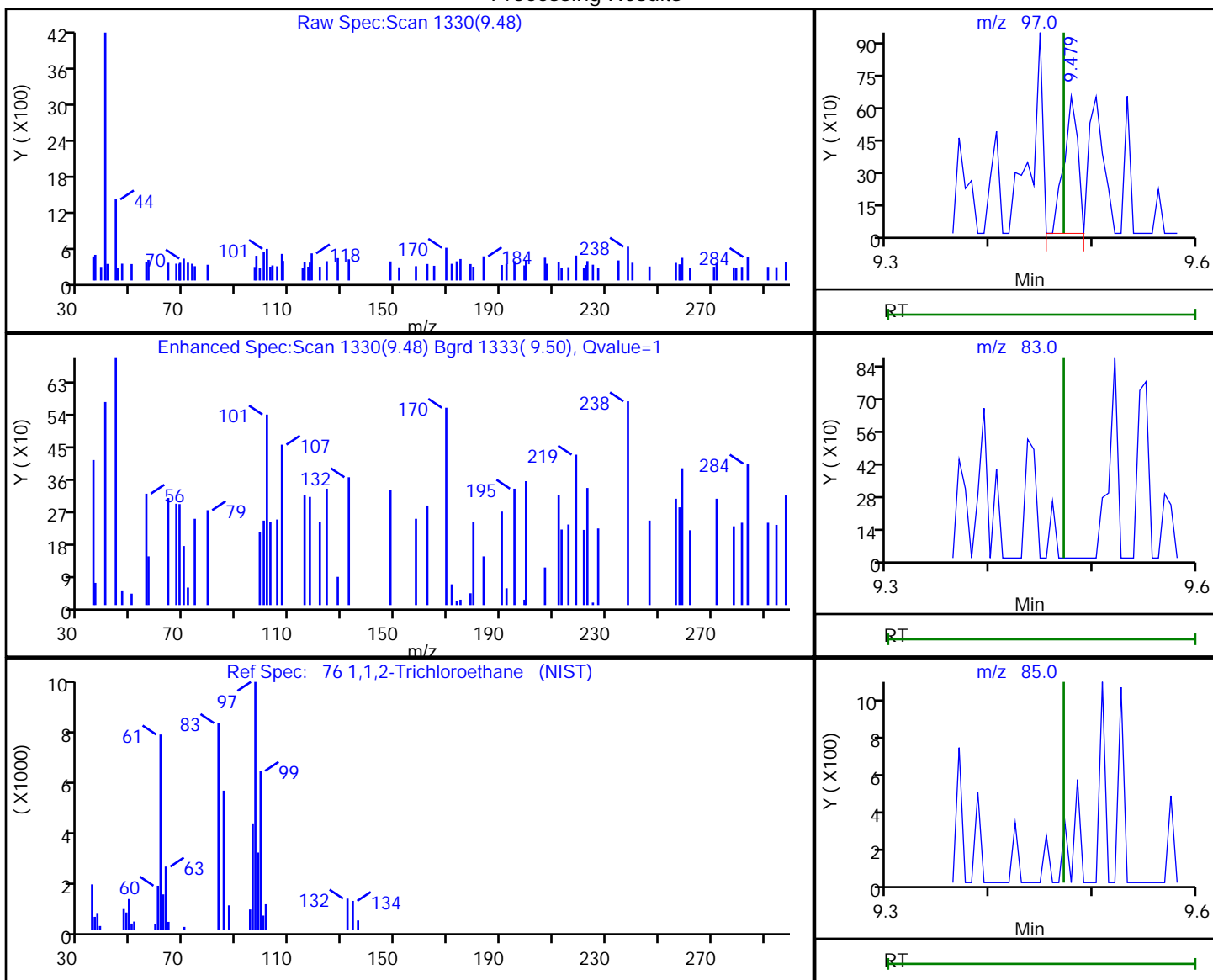
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Injection Date: 25-Jan-2020 15:43:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-5 Lab Sample ID: 180-101459-5  
 Client ID: HD-COD-SW-17-0/1-0  
 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
9.48	97.00	603	0.281389
9.47	83.00	0	
9.47	85.00	0	

Reviewer: bowieh, 25-Jan-2020 16:25:59

Audit Action: Marked Compound Undetected

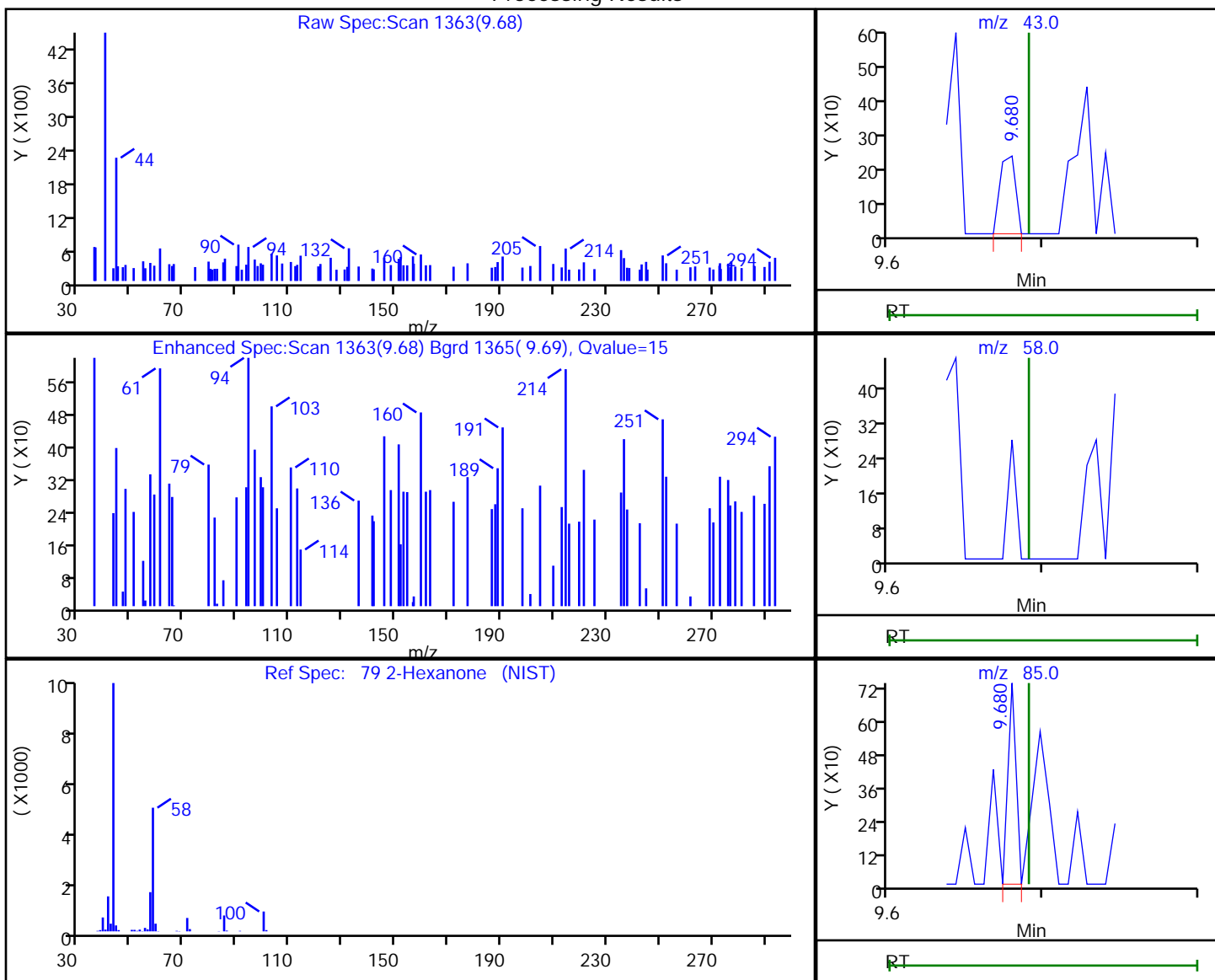
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012512.D  
 Injection Date: 25-Jan-2020 15:43:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-5 Lab Sample ID: 180-101459-5  
 Client ID: HD-COD-SW-17-0/1-0  
 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
9.68	43.00	162	0.084863
9.68	85.00	270	
9.69	58.00	0	

Reviewer: bowieh, 25-Jan-2020 16:26:02

Audit Action: Marked Compound Undetected

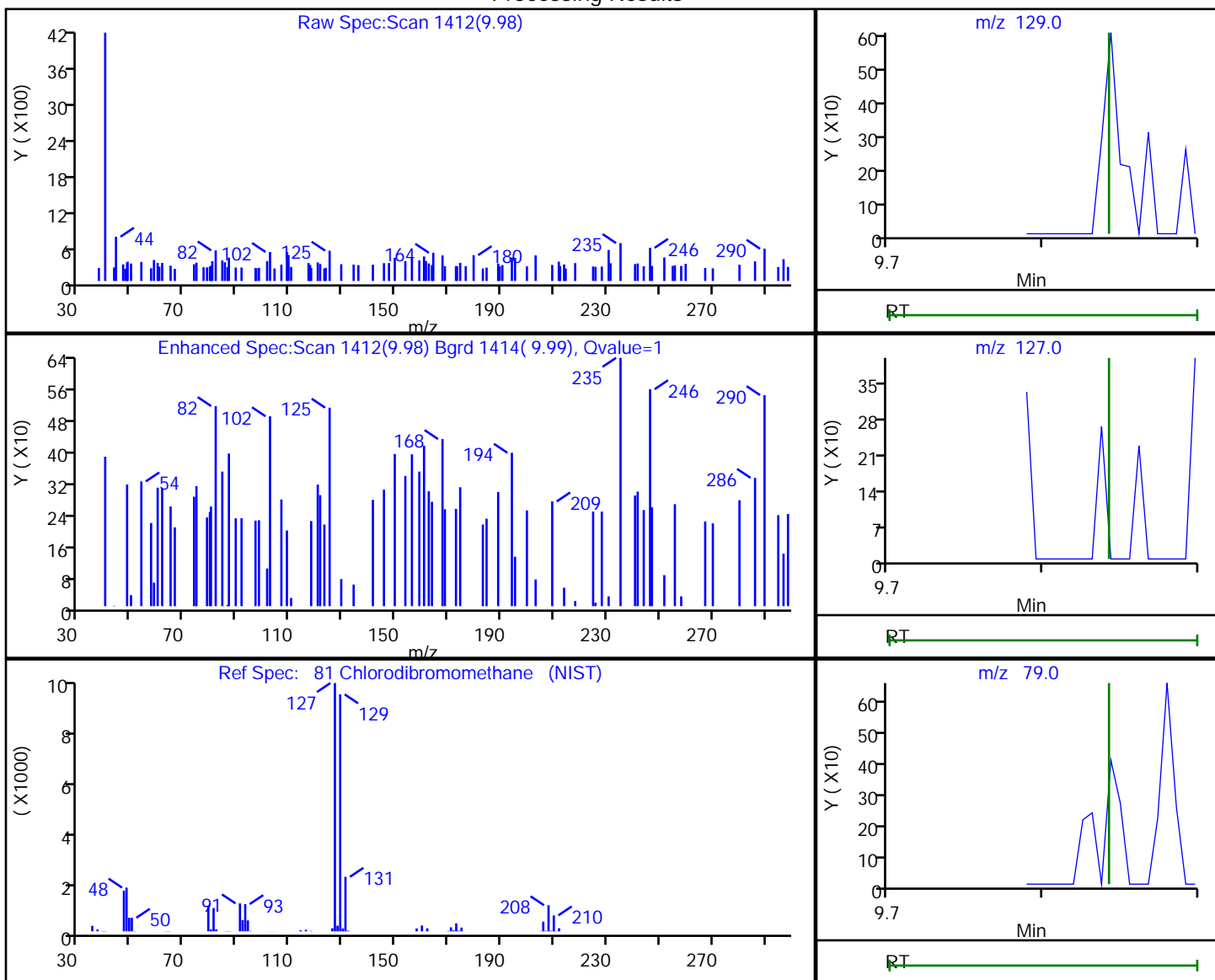
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Injection Date: 25-Jan-2020 15:43:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-5 Lab Sample ID: 180-101459-5  
 Client ID: HD-COD-SW-17-0/1-0  
 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
9.98	129.00	200	0.110504
9.97	127.00	220	
9.84	79.00	0	

Reviewer: bowieh, 25-Jan-2020 16:26:03

Audit Action: Marked Compound Undetected

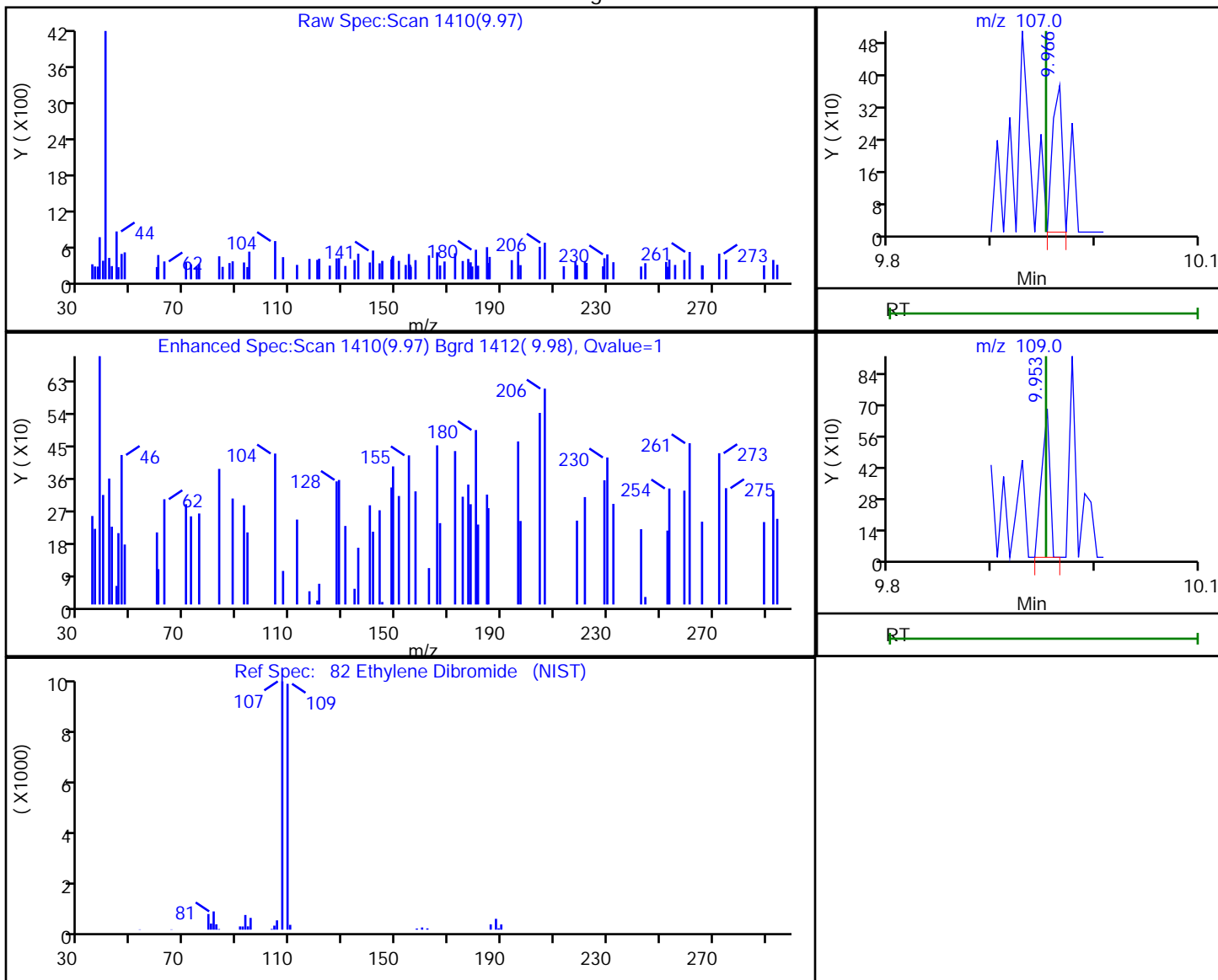
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012512.D  
Injection Date: 25-Jan-2020 15:43:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-5 Lab Sample ID: 180-101459-5  
Client ID: HD-COD-SW-17-0/1-0  
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	237	0.112062
9.95	109.00	376	

Reviewer: bowieh, 25-Jan-2020 16:26:05

Audit Action: Marked Compound Undetected

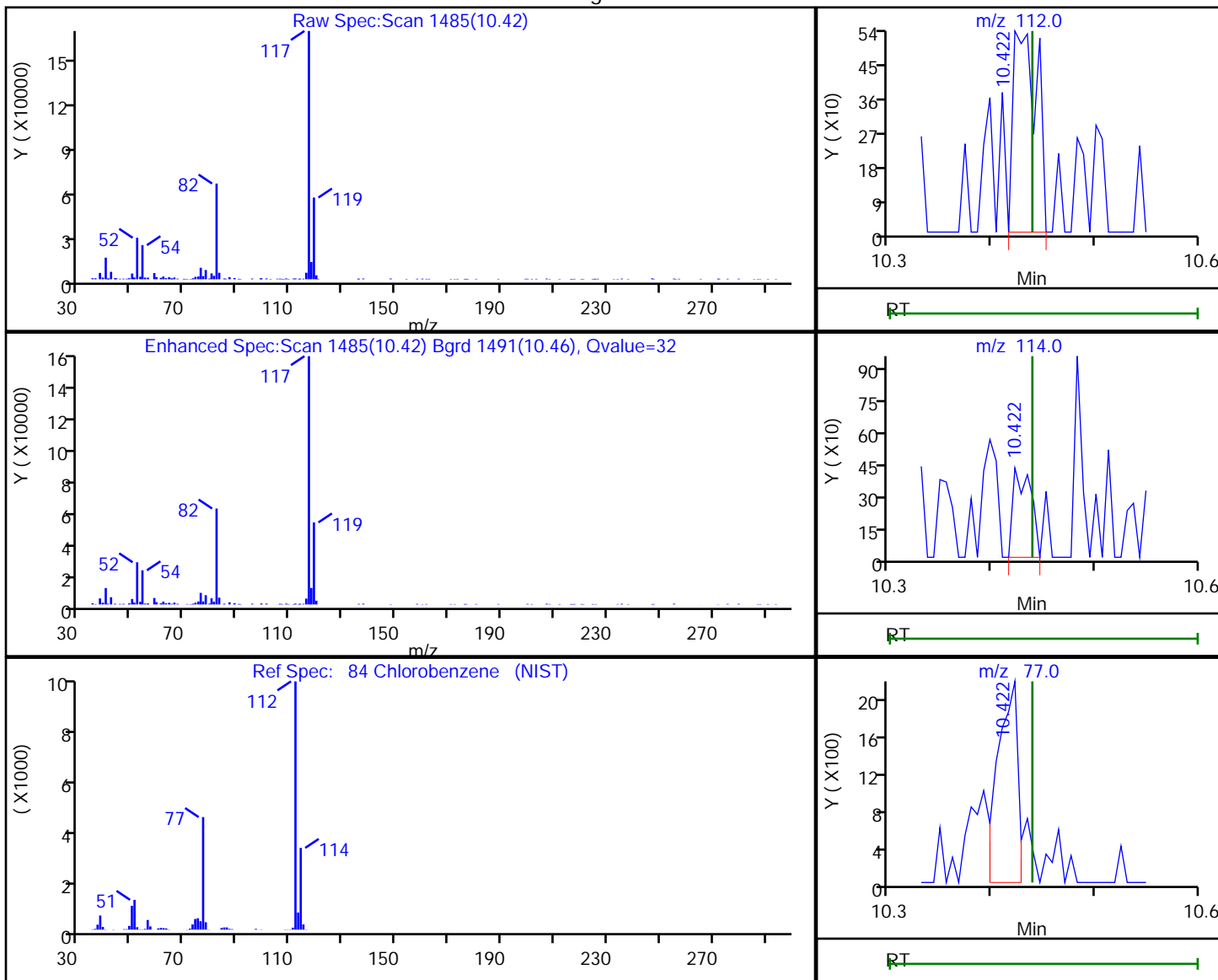
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012512.D  
Injection Date: 25-Jan-2020 15:43:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-5 Lab Sample ID: 180-101459-5  
Client ID: HD-COD-SW-17-0/1-0  
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
10.42	112.00	862	0.109785
10.42	114.00	507	
10.42	77.00	2864	

Reviewer: bowieh, 25-Jan-2020 16:26:06

Audit Action: Marked Compound Undetected

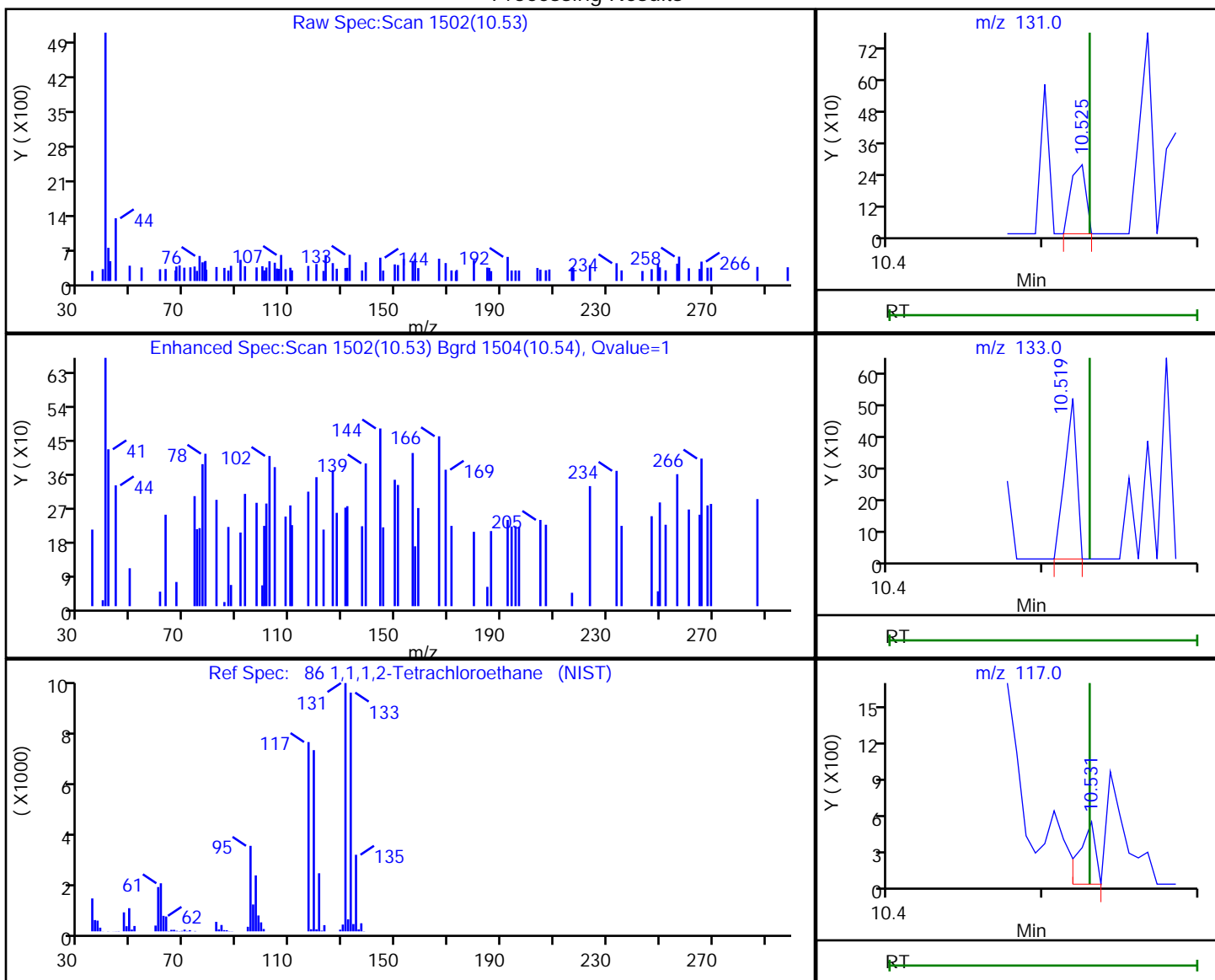
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Injection Date: 25-Jan-2020 15:43:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-5 Lab Sample ID: 180-101459-5  
 Client ID: HD-COD-SW-17-0/1-0  
 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
10.53	131.00	178	0.077178
10.52	133.00	278	
10.53	117.00	381	

Reviewer: bowieh, 25-Jan-2020 16:26:07

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

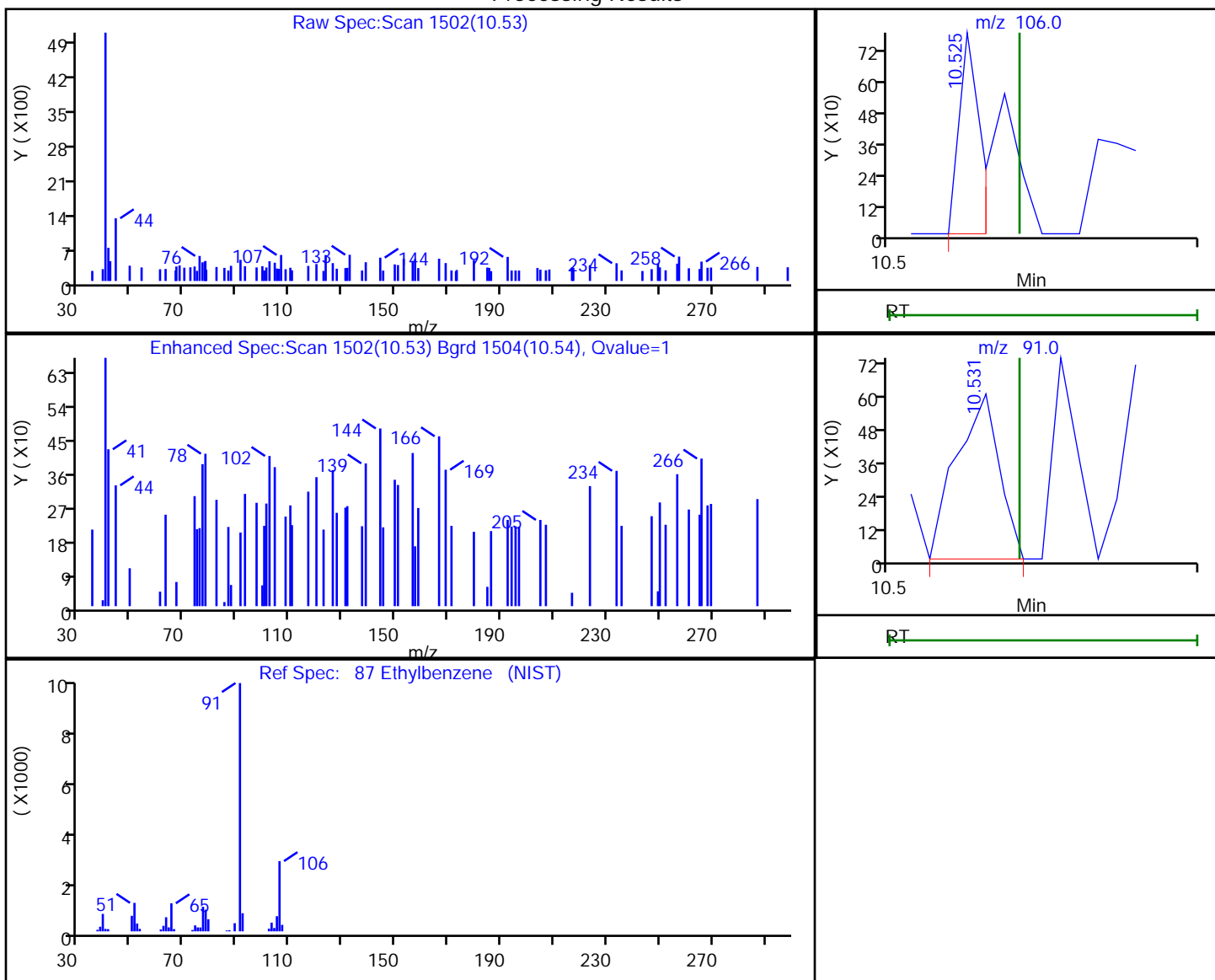


Eurofins TestAmerica, Pittsburgh

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 Injection Date: 25-Jan-2020 15:43:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-5 Lab Sample ID: 180-101459-5  
 Client ID: HD-COD-SW-17-0/1-0  
 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
10.53	106.00	377	0.083903
10.53	91.00	585	

Reviewer: bowieh, 25-Jan-2020 16:26:08

Audit Action: Marked Compound Undetected

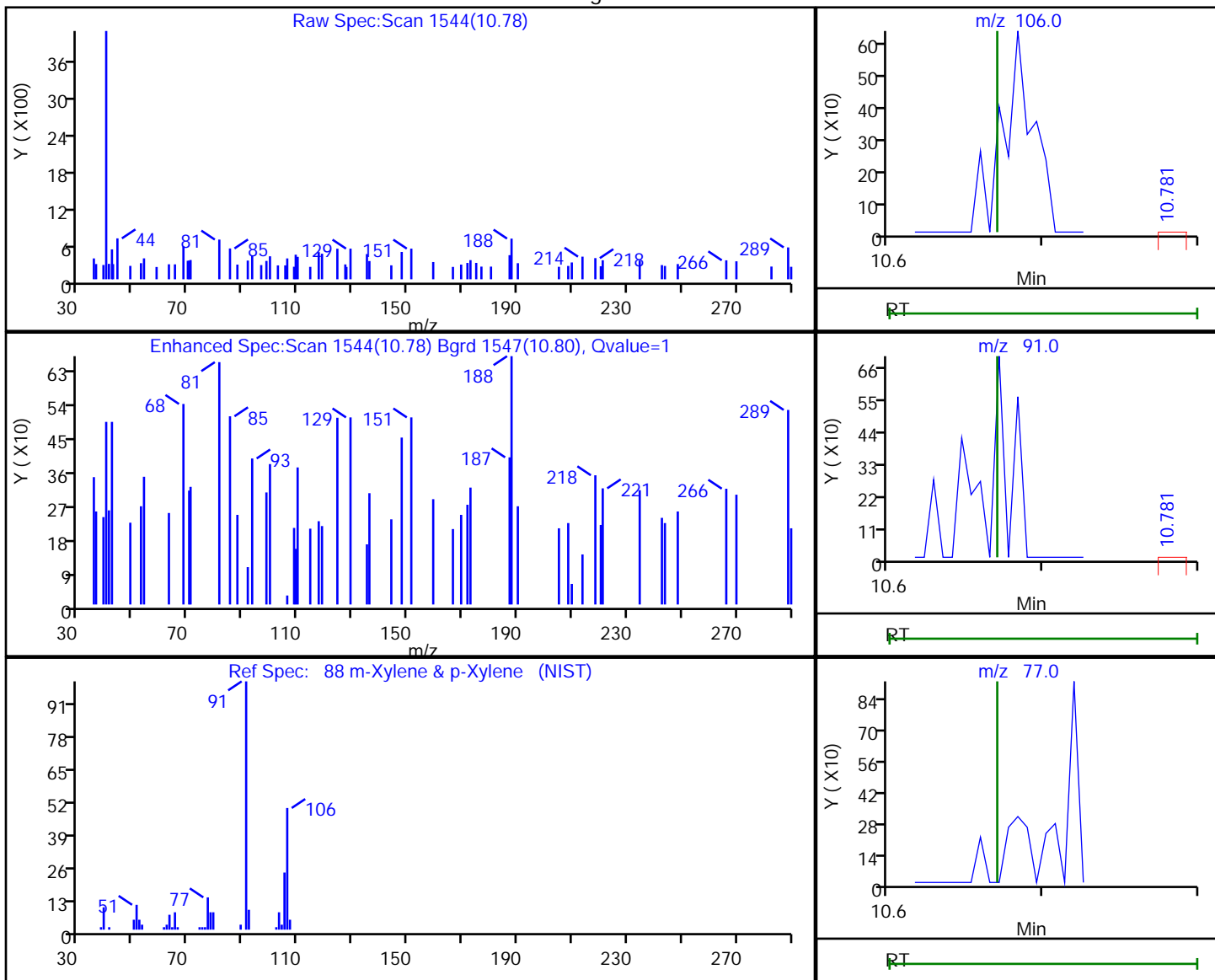
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Injection Date: 25-Jan-2020 15:43:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-5 Lab Sample ID: 180-101459-5  
 Client ID: HD-COD-SW-17-0/1-0  
 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

Processing Results



RT	Mass	Response	Amount
10.78	106.00	207	0.038431
10.78	91.00	221	
10.79	77.00	183	

Reviewer: bowieh, 25-Jan-2020 16:26:10

Audit Action: Marked Compound Undetected

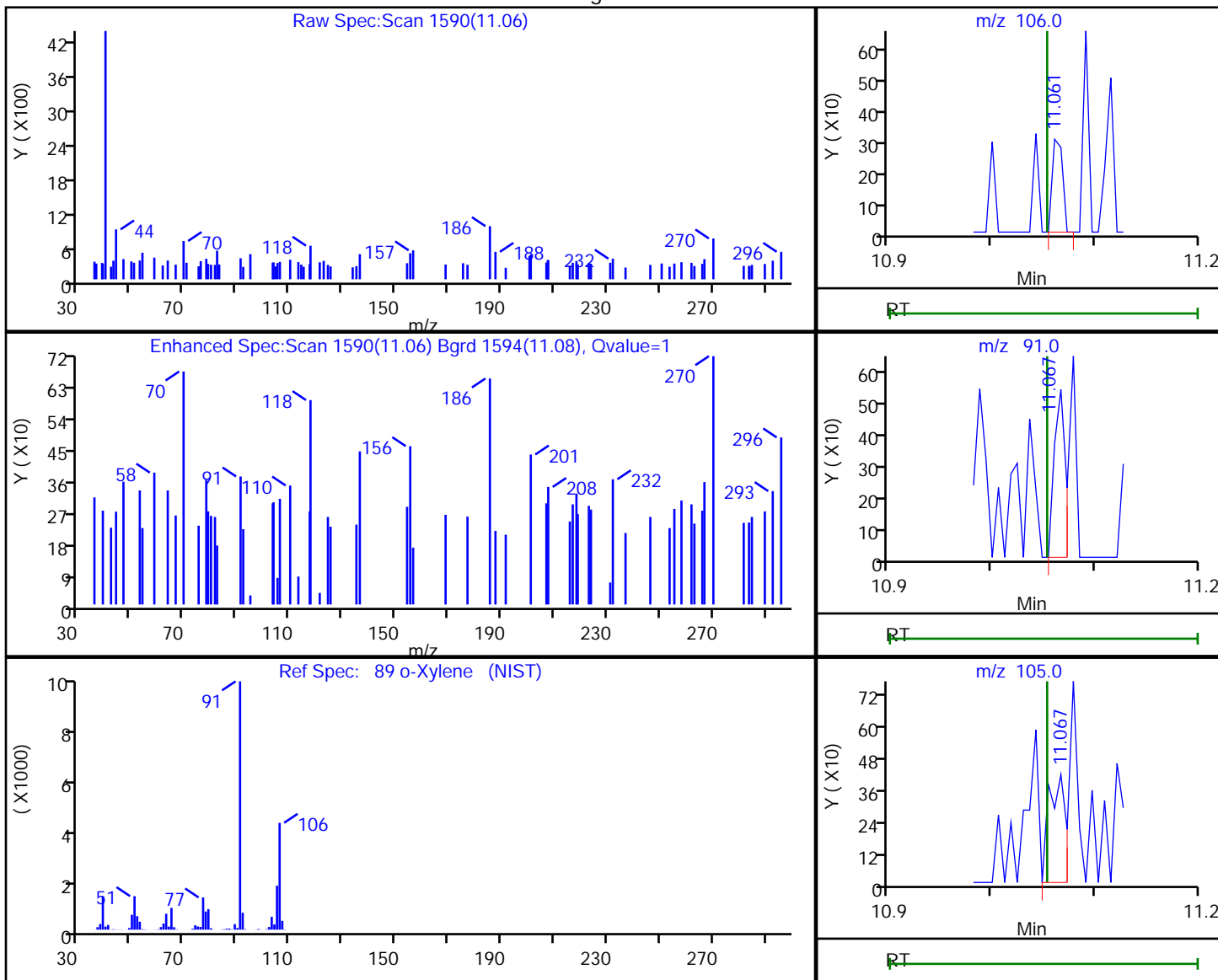
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012512.D  
 Injection Date: 25-Jan-2020 15:43:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-5 Lab Sample ID: 180-101459-5  
 Client ID: HD-COD-SW-17-0/1-0  
 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
11.06	106.00	211	0.041172
11.07	91.00	412	
11.07	105.00	465	

Reviewer: bowieh, 25-Jan-2020 16:26:11

Audit Action: Marked Compound Undetected

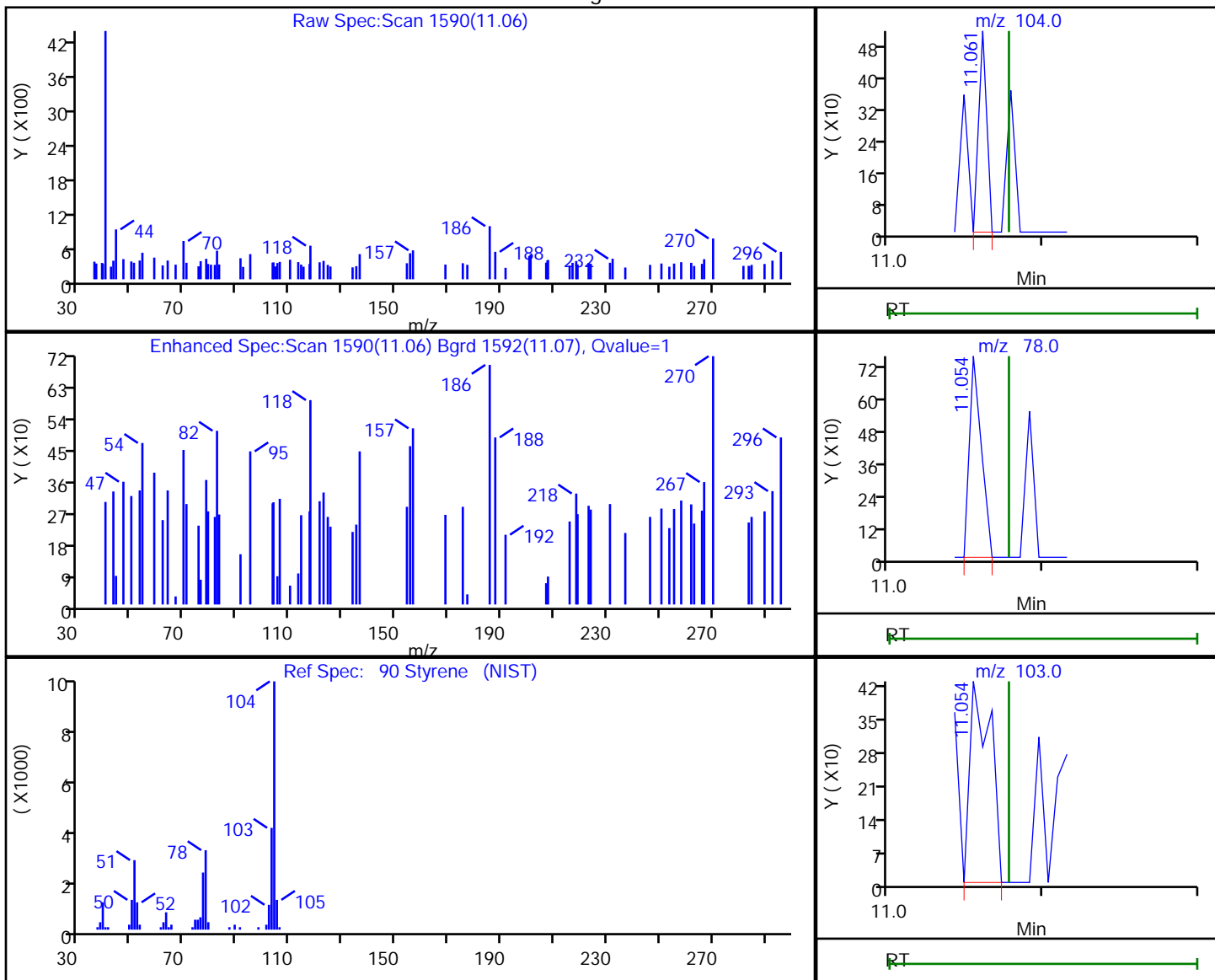
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012512.D  
 Injection Date: 25-Jan-2020 15:43:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-5 Lab Sample ID: 180-101459-5  
 Client ID: HD-COD-SW-17-0/1-0  
 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

90 Styrene, CAS: 100-42-5

Processing Results



RT	Mass	Response	Amount
11.06	104.00	189	0.023279
11.05	78.00	406	
11.05	103.00	397	

Reviewer: bowieh, 25-Jan-2020 16:26:12

Audit Action: Marked Compound Undetected

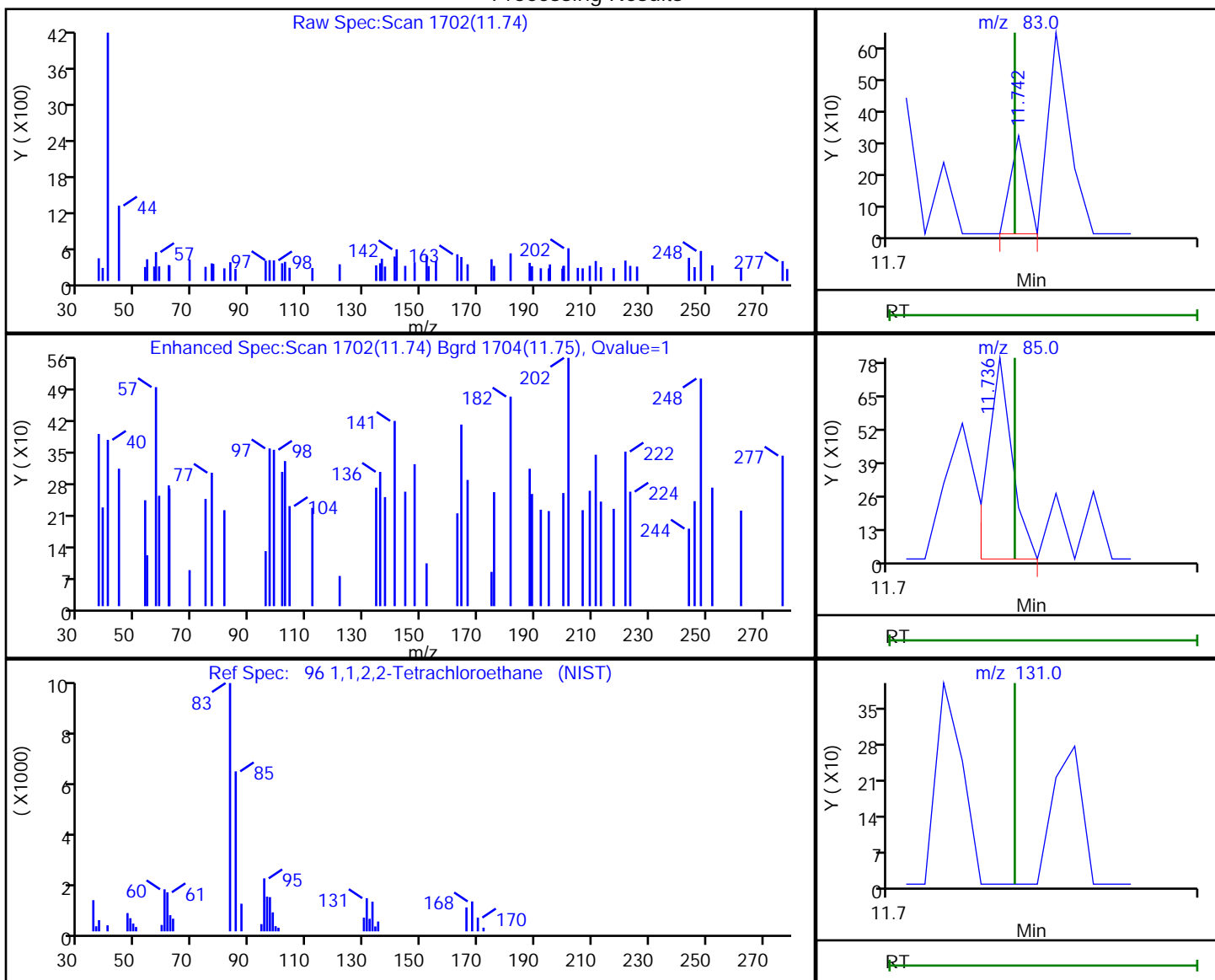
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Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012512.D  
 Injection Date: 25-Jan-2020 15:43:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-5 Lab Sample ID: 180-101459-5  
 Client ID: HD-COD-SW-17-0/1-0  
 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
11.74	83.00	115	0.050347
11.74	85.00	445	
11.74	131.00	0	

Reviewer: bowieh, 25-Jan-2020 16:26:13

Audit Action: Marked Compound Undetected

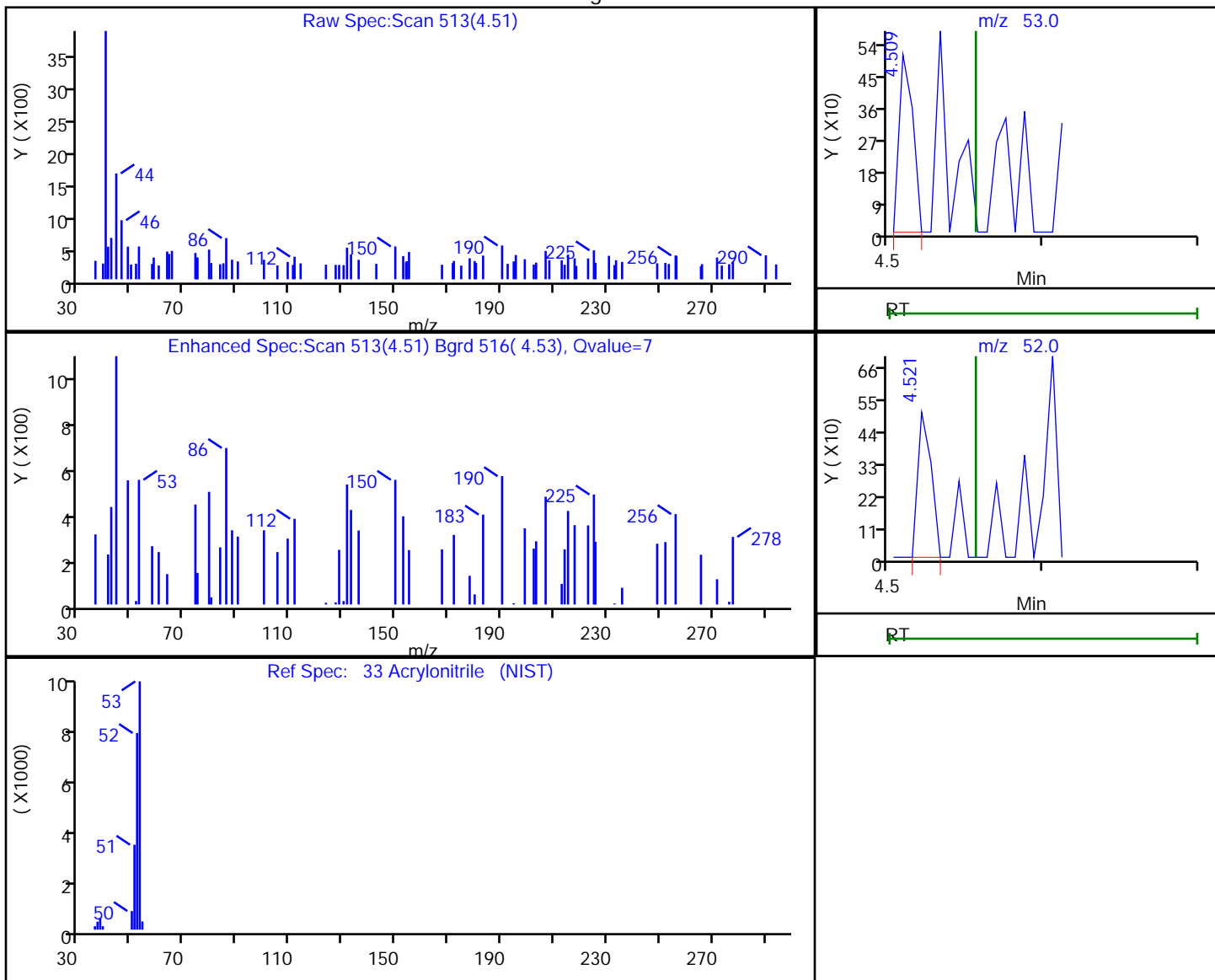
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Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012512.D  
Injection Date: 25-Jan-2020 15:43:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-5 Lab Sample ID: 180-101459-5  
Client ID: HD-COD-SW-17-0/1-0  
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
4.51	53.00	316	0.335930
4.52	52.00	303	

Reviewer: bowieh, 25-Jan-2020 16:25:32

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.: 180-101459-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: HD-COD-SW-6-0/1-0 Lab Sample ID: 180-101459-6  
 Matrix: Water Lab File ID: 6012513.D  
 Analysis Method: EPA 8260C Date Collected: 01/23/2020 11:35  
 Sample wt/vol: 5 (mL) Date Analyzed: 01/25/2020 16:10  
 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.: 304996 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	ND	^c	1.0	0.88
74-83-9	Bromomethane	ND	^c	1.0	0.89
75-00-3	Chloroethane	ND	^c	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.: 180-101459-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: HD-COD-SW-6-0/1-0 Lab Sample ID: 180-101459-6  
 Matrix: Water Lab File ID: 6012513.D  
 Analysis Method: EPA 8260C Date Collected: 01/23/2020 11:35  
 Sample wt/vol: 5 (mL) Date Analyzed: 01/25/2020 16:10  
 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.: 304996 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)	131		70-150
2037-26-5	Toluene-d8 (Surr)	100		78-128
460-00-4	4-Bromofluorobenzene (Surr)	78		64-123
1868-53-7	Dibromofluoromethane (Surr)	109		75-147



Eurofins TestAmerica, Pittsburgh  
Target Compound Quantitation Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012513.D  
 Lims ID: 180-101459-B-6  
 Client ID: HD-COD-SW-6-0/1-0  
 Sample Type: Client  
 Inject. Date: 25-Jan-2020 16:10:30 ALS Bottle#: 7 Worklist Smp#: 13  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 180-0030512-013  
 Misc. Info.: 180-101459-b-6  
 Operator ID: 433269 Instrument ID: CHHP6  
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\MSVOA\_LL\_CHHP6.m  
 Limit Group: VOA 8260C\_D ICAL  
 Last Update: 28-Jan-2020 08:57:22 Calib Date: 31-Dec-2019 16:03:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123111.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0301

First Level Reviewer: bowieh

Date: 28-Jan-2020 08:57:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.310	4.319	-0.009	89	156724	1000.0	
* 2 Fluorobenzene (IS)	96	7.303	7.306	-0.003	99	479023	50.0	
* 3 Chlorobenzene-d5	119	10.412	10.408	0.004	84	131597	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.760	12.757	0.003	93	170090	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.579	6.582	-0.003	95	117964	54.6	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.950	6.953	-0.003	95	146579	65.3	
\$ 7 Toluene-d8 (Surr)	98	8.958	8.954	0.004	93	486394	49.9	
\$ 8 4-Bromofluorobenzene (Surr	95	11.598	11.595	0.003	0	136503	39.2	
12 Chloromethane	50		1.837				ND	U
13 Vinyl chloride	62		1.952				ND	U
15 Bromomethane	94		2.287				ND	U
16 Chloroethane	64		2.421				ND	U
22 1,1-Dichloroethene	96		3.370				ND	
24 Acetone	43	3.495	3.473	0.022	89	14255	12.2	M
26 Carbon disulfide	76		3.662				ND	U
31 Methylene Chloride	84	4.164	4.155	0.009	68	5234	-4.76	a
33 Acrylonitrile	53		4.556				ND	U
34 trans-1,2-Dichloroethene	96		4.574				ND	U
35 Methyl tert-butyl ether	73		4.611				ND	U
37 1,1-Dichloroethane	63		5.219				ND	
43 cis-1,2-Dichloroethene	96		5.967				ND	U
44 2-Butanone (MEK)	43		5.980				ND	U
48 Chlorobromomethane	128		6.247				ND	U
50 Chloroform	83		6.393				ND	U
51 1,1,1-Trichloroethane	97		6.558				ND	U
53 Carbon tetrachloride	117		6.722				ND	U
56 Benzene	78		6.959				ND	U
57 1,2-Dichloroethane	62		7.038				ND	U
61 Trichloroethene	130		7.689				ND	U
64 1,2-Dichloropropane	63		7.963				ND	U
68 Dichlorobromomethane	83		8.249				ND	U

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
71 cis-1,3-Dichloropropene	75		8.699				ND	U
72 4-Methyl-2-pentanone (MIBK)	43		8.857				ND	U
73 Toluene	91	9.019	9.021	-0.002	64	4209	0.3394	
74 trans-1,3-Dichloropropene	75		9.277				ND	U
76 1,1,2-Trichloroethane	97		9.472				ND	U
77 Tetrachloroethene	164		9.538				ND	U
79 2-Hexanone	43		9.691				ND	U
81 Chlorodibromomethane	129		9.843				ND	U
82 Ethylene Dibromide	107		9.952				ND	U
84 Chlorobenzene	112		10.439				ND	U
86 1,1,1,2-Tetrachloroethane	131		10.530				ND	
87 Ethylbenzene	106		10.542				ND	U
88 m-Xylene & p-Xylene	106		10.670				ND	U
89 o-Xylene	106		11.053				ND	U
90 Styrene	104		11.078				ND	
91 Bromoform	173		11.254				ND	U
96 1,1,2,2-Tetrachloroethane	83		11.741				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:

VOA8260INT\_00103

Amount Added: 2.00

Units: uL

Run Reagent

VOA8260SURR\_00103

Amount Added: 2.00

Units: uL

Run Reagent

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012513.D

Injection Date: 25-Jan-2020 16:10:30

Instrument ID: CHHP6

Operator ID: 433269

Lims ID: 180-101459-B-6

Lab Sample ID: 180-101459-6

Worklist Smp#: 13

Client ID: HD-COD-SW-6-0/1-0

Purge Vol: 5.000 mL

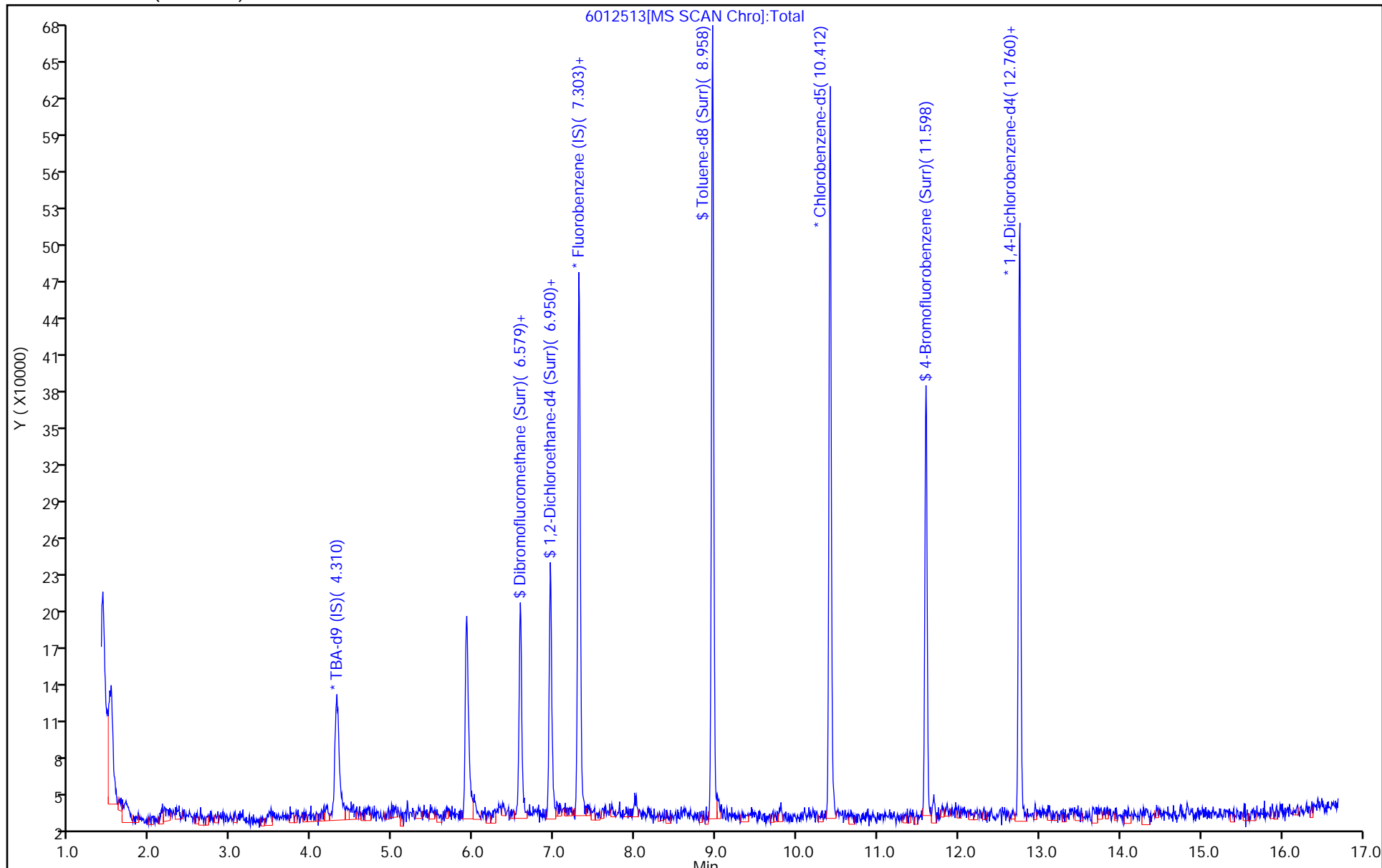
Dil. Factor: 1.0000

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\20200125-30512.b\6012513.D  
 Lims ID: 180-101459-B-6  
 Client ID: HD-COD-SW-6-0/1-0  
 Sample Type: Client  
 Inject. Date: 25-Jan-2020 16:10:30 ALS Bottle#: 7 Worklist Smp#: 13  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 180-0030512-013  
 Misc. Info.: 180-101459-b-6  
 Operator ID: 433269 Instrument ID: CHHP6  
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\MSVOA\_LL\_CHHP6.m  
 Limit Group: VOA 8260C\_D ICAL  
 Last Update: 28-Jan-2020 08:57:22 Calib Date: 31-Dec-2019 16:03:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123111.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0301

First Level Reviewer: bowieh

Date: 28-Jan-2020 08:57:22

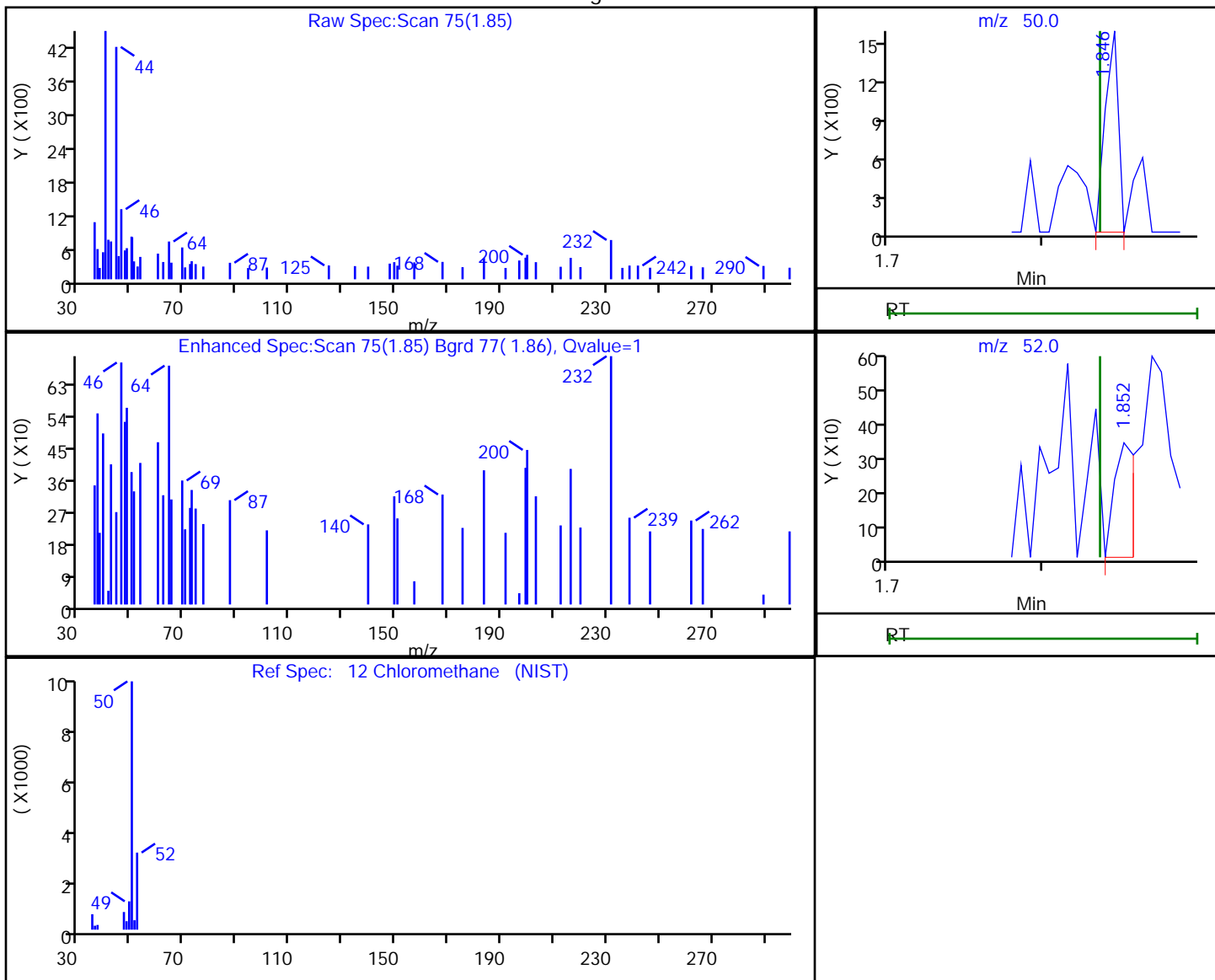
Compound	Amount Added	Amount Recovered	% Rec.
\$ 5 Dibromofluoromethane (Surr)	50.0	54.6	109.30
\$ 6 1,2-Dichloroethane-d4 (Surr)	50.0	65.3	130.51
\$ 7 Toluene-d8 (Surr)	50.0	49.9	99.79
\$ 8 4-Bromofluorobenzene (Surr)	50.0	39.2	78.41

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012513.D  
 Injection Date: 25-Jan-2020 16:10:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-6 Lab Sample ID: 180-101459-6  
 Client ID: HD-COD-SW-6-0/1-0  
 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
1.85	50.00	896	0.245446
1.85	52.00	318	

Reviewer: bowieh, 28-Jan-2020 08:56:24

Audit Action: Marked Compound Undetected

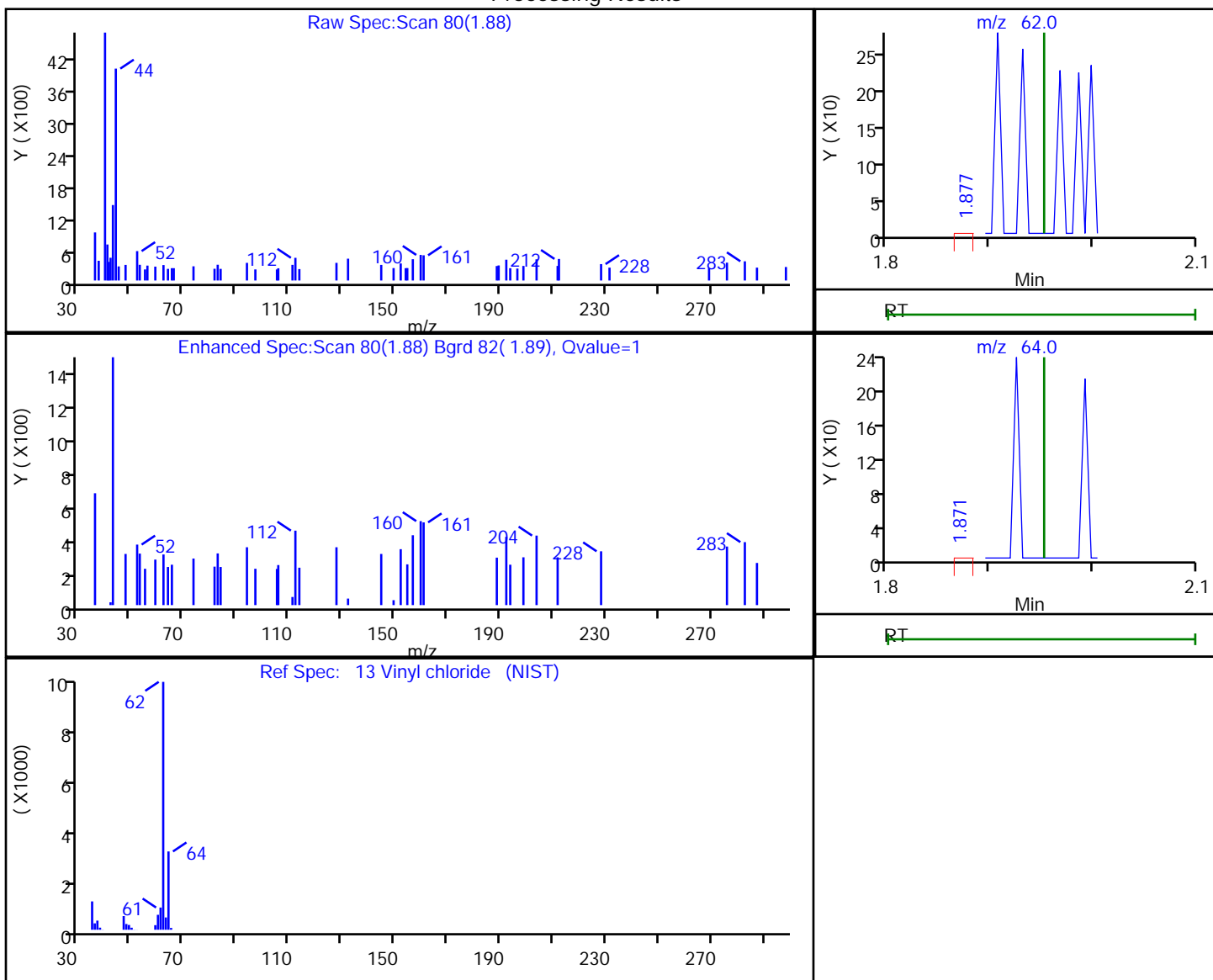
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012513.D  
 Injection Date: 25-Jan-2020 16:10:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-6 Lab Sample ID: 180-101459-6  
 Client ID: HD-COD-SW-6-0/1-0  
 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
1.88	62.00	203	0.064621
1.87	64.00	168	

Reviewer: bowieh, 28-Jan-2020 08:56:25

Audit Action: Marked Compound Undetected

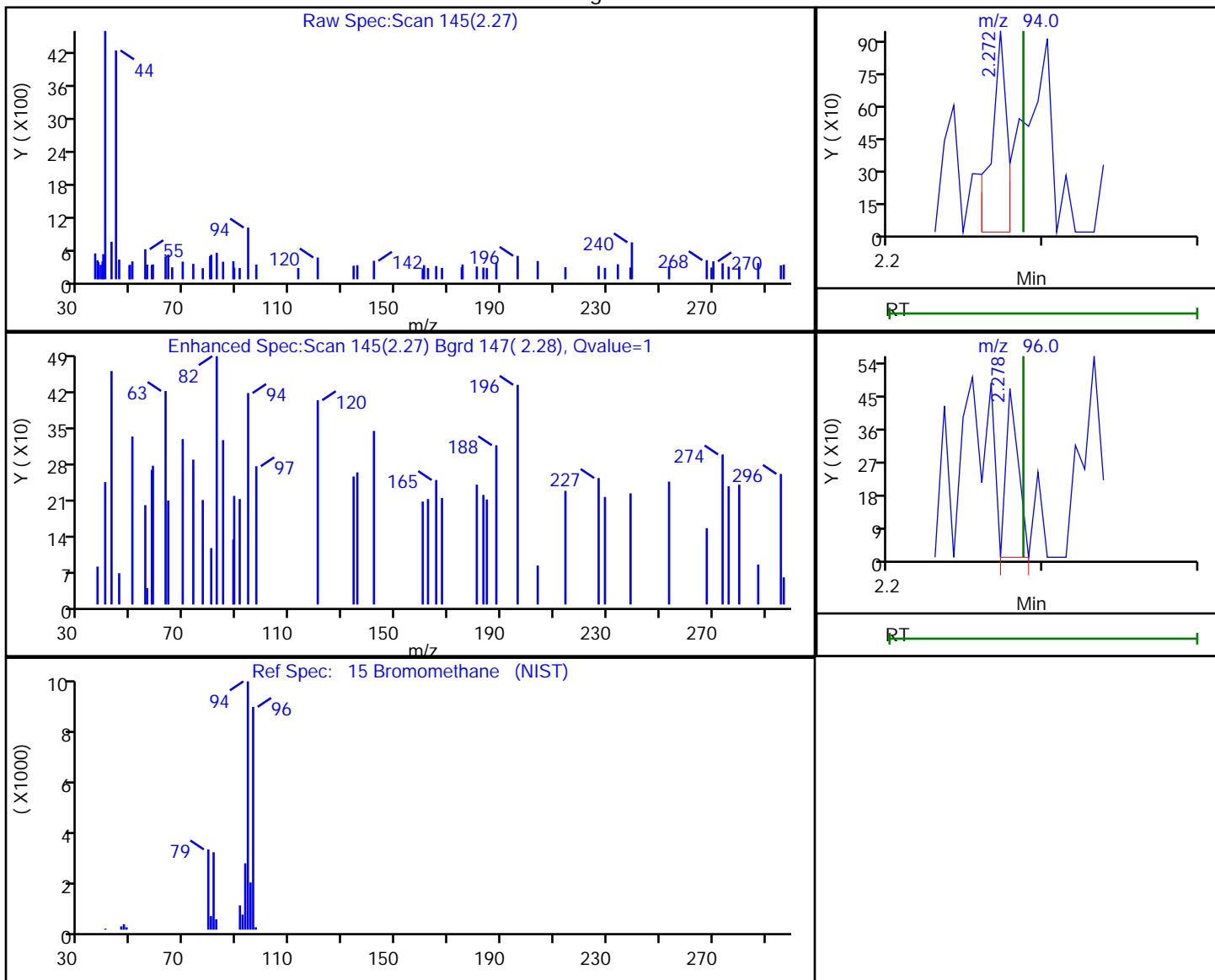
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012513.D  
 Injection Date: 25-Jan-2020 16:10:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-6 Lab Sample ID: 180-101459-6  
 Client ID: HD-COD-SW-6-0/1-0  
 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
2.27	94.00	680	0.339286
2.28	96.00	257	

Reviewer: bowieh, 28-Jan-2020 08:56:26

Audit Action: Marked Compound Undetected

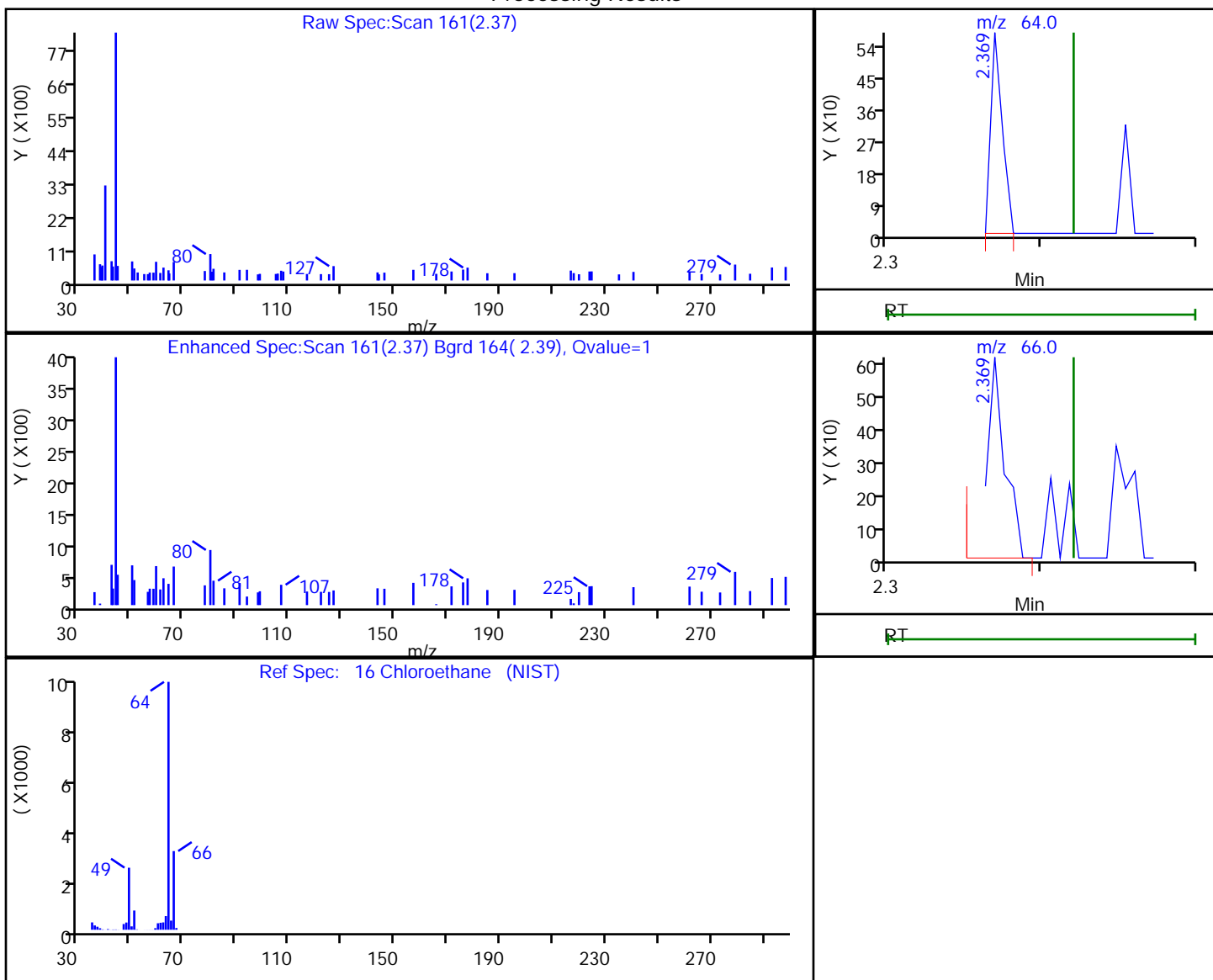
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012513.D  
 Injection Date: 25-Jan-2020 16:10:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-6 Lab Sample ID: 180-101459-6  
 Client ID: HD-COD-SW-6-0/1-0  
 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
2.37	64.00	296	0.129379
2.37	66.00	568	

Reviewer: bowieh, 28-Jan-2020 08:56:27

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID



Eurofins TestAmerica, Pittsburgh

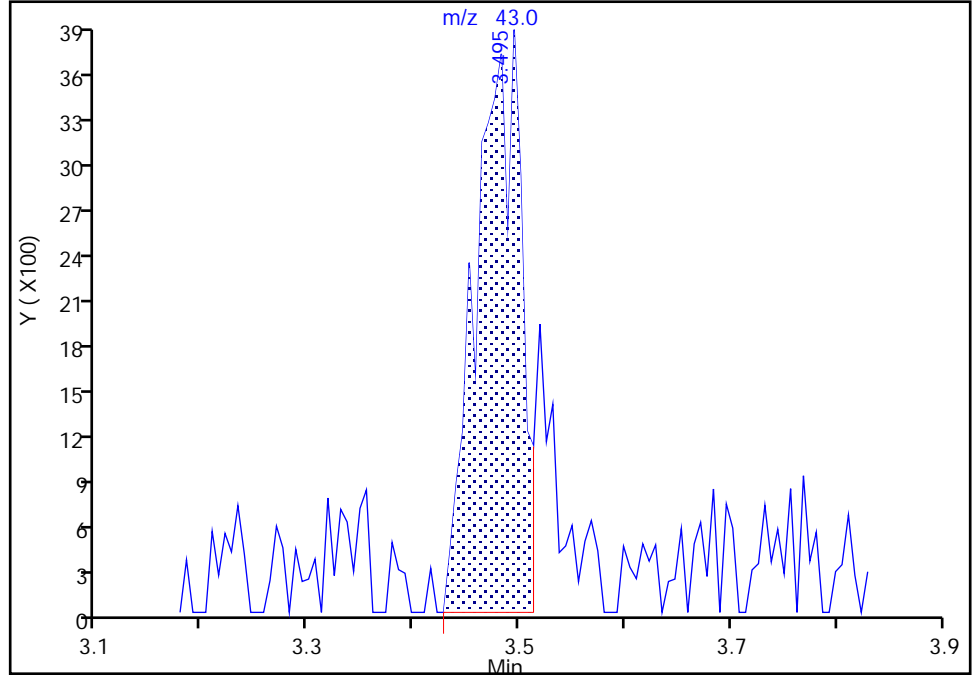
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Injection Date: 25-Jan-2020 16:10:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-6 Lab Sample ID: 180-101459-6  
Client ID: HD-COD-SW-6-0/1-0  
Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 13  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
Column: DB-624 (0.18 mm) Detector: MS SCAN

24 Acetone, CAS: 67-64-1

Signal: 1

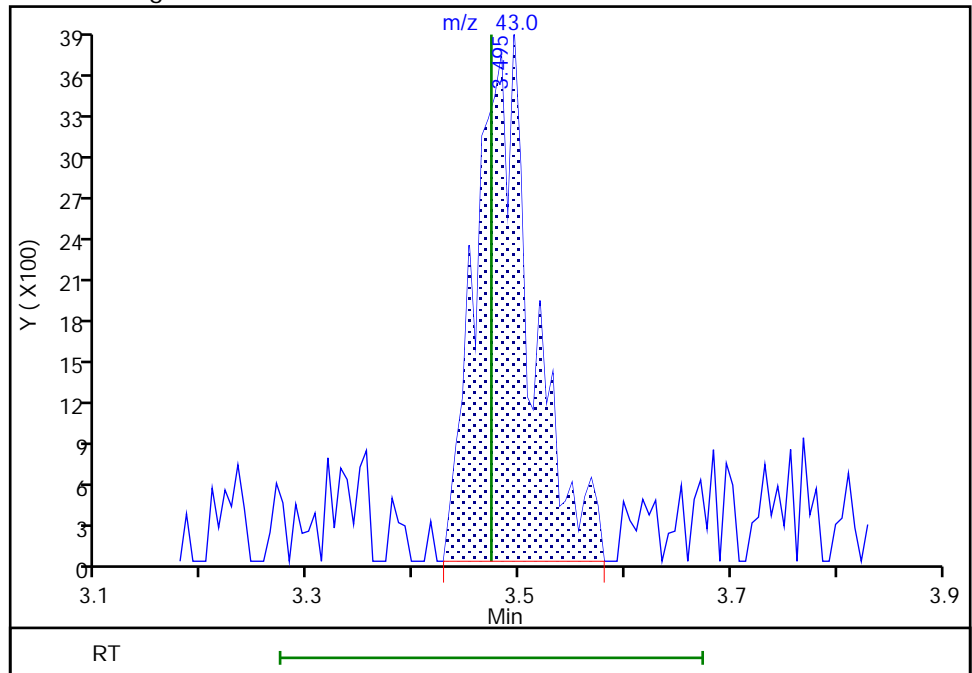
RT: 3.49  
Area: 11491  
Amount: 9.828506  
Amount Units: ng

Processing Integration Results



RT: 3.49  
Area: 14255  
Amount: 12.192616  
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 28-Jan-2020 08:56:37  
Audit Action: Manually Integrated

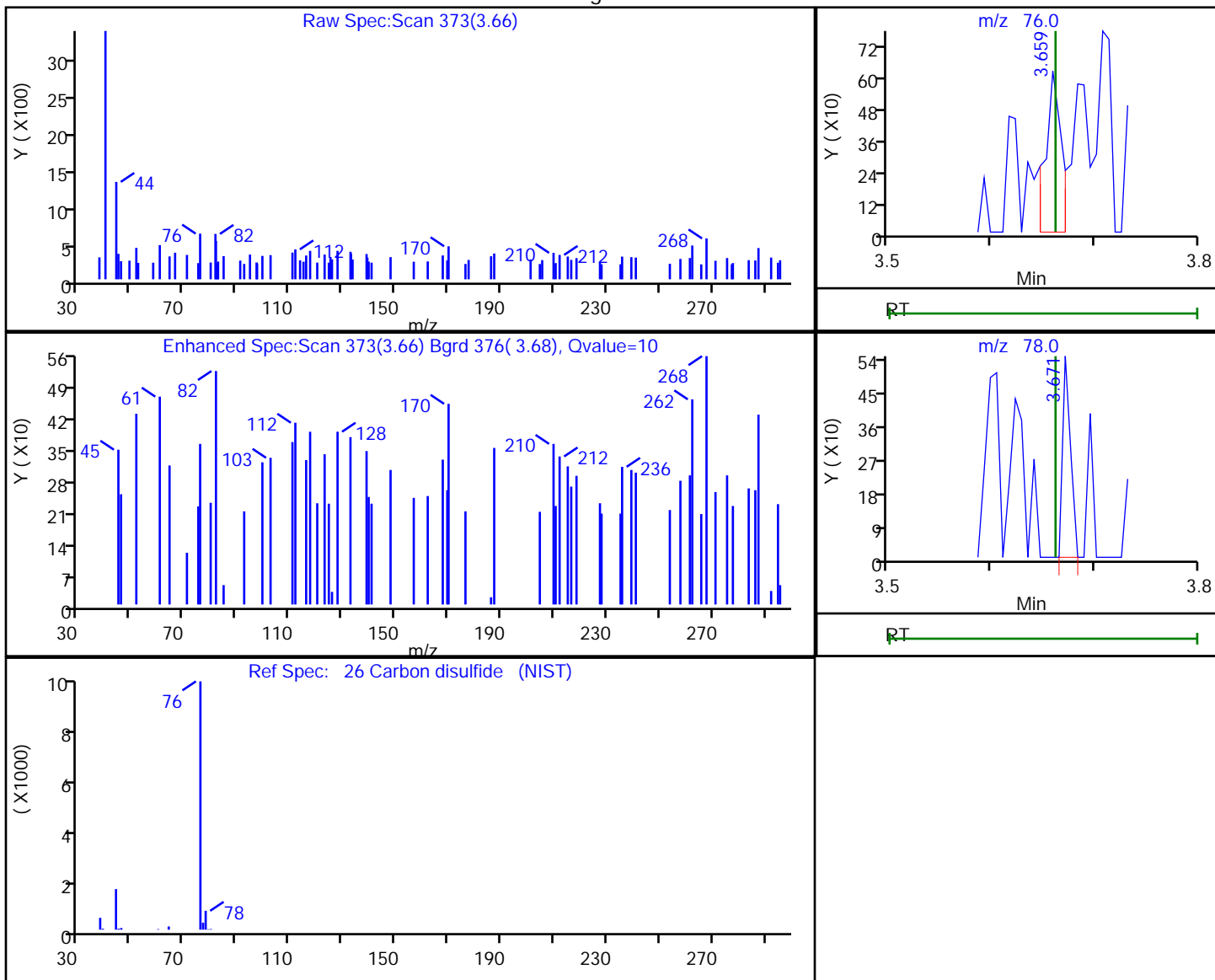
Audit Reason: Poor chromatography

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012513.D  
Injection Date: 25-Jan-2020 16:10:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-6 Lab Sample ID: 180-101459-6  
Client ID: HD-COD-SW-6-0/1-0  
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
3.66	76.00	664	0.128675
3.67	78.00	292	

Reviewer: bowieh, 28-Jan-2020 08:56:39

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

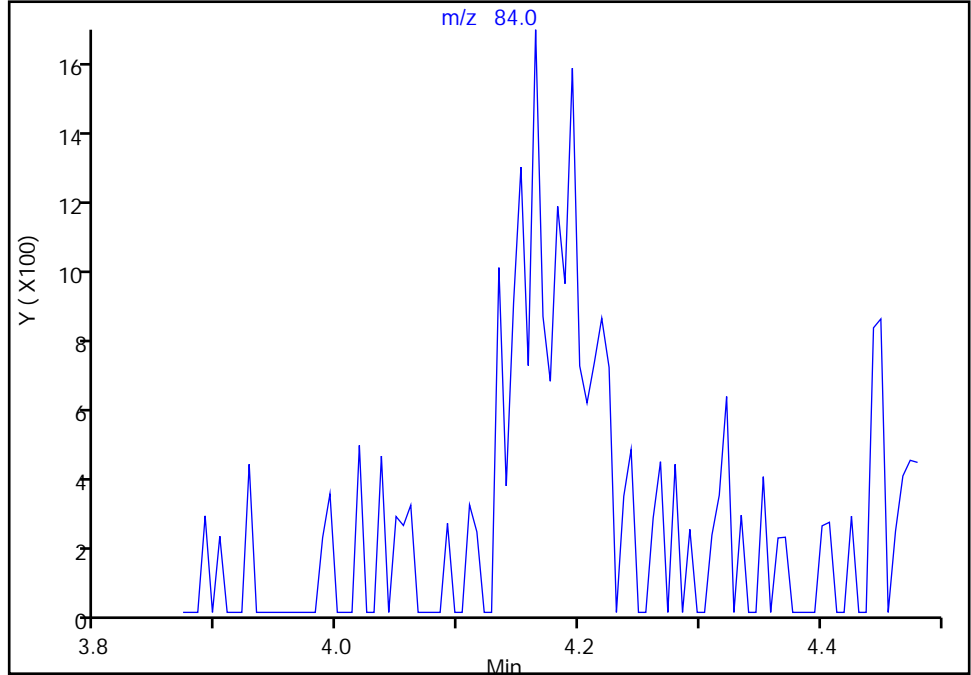
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Injection Date: 25-Jan-2020 16:10:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-6 Lab Sample ID: 180-101459-6  
Client ID: HD-COD-SW-6-0/1-0  
Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 13  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: 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

Signal: 1

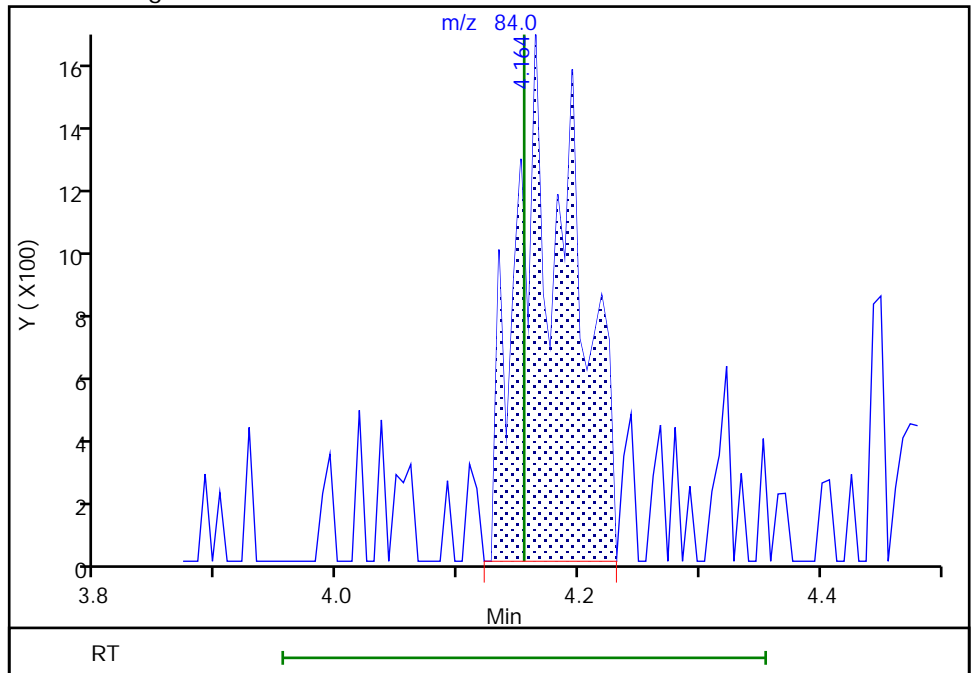
Not Detected  
Expected RT: 4.15

Processing Integration Results



Manual Integration Results

RT: 4.16  
Area: 5234  
Amount: -4.760702  
Amount Units: ng



Reviewer: bowieh, 28-Jan-2020 08:56:42  
Audit Action: Assigned Compound ID

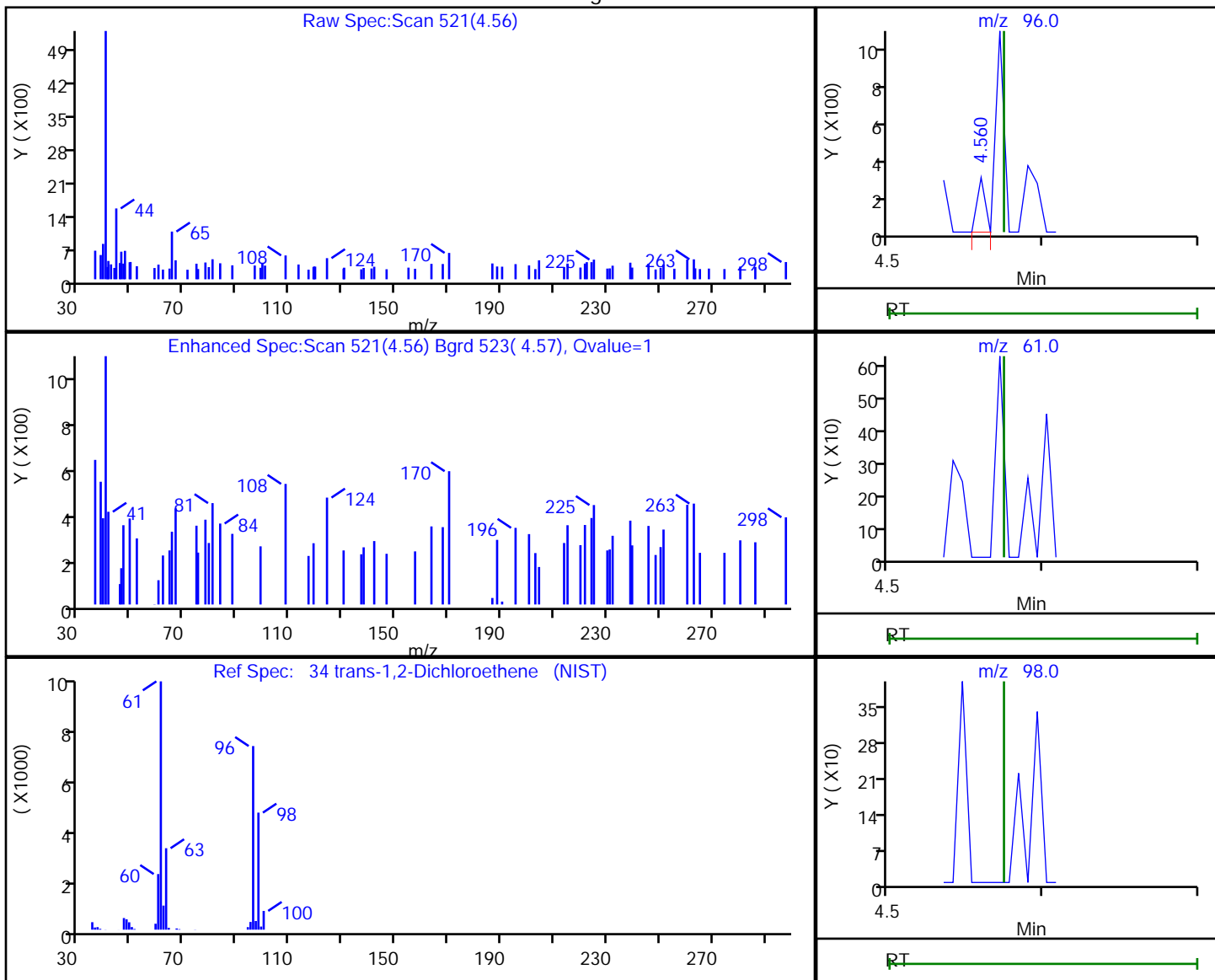
Audit Reason: Poor chromatography

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012513.D  
 Injection Date: 25-Jan-2020 16:10:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-6 Lab Sample ID: 180-101459-6  
 Client ID: HD-COD-SW-6-0/1-0  
 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
4.56	96.00	106	0.040650
4.57	61.00	0	
4.57	98.00	0	

Reviewer: bowieh, 28-Jan-2020 08:56:44

Audit Action: Marked Compound Undetected

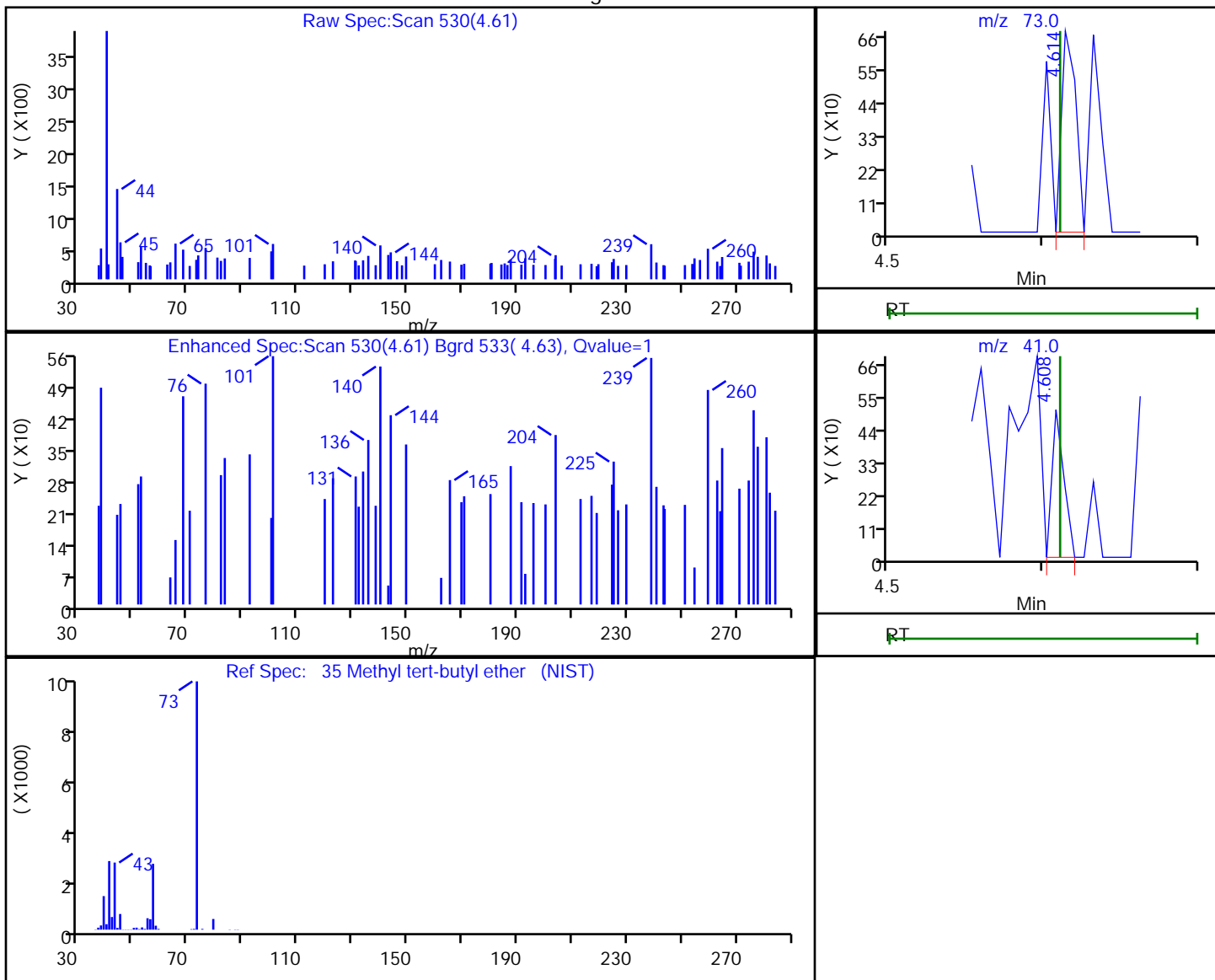
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012513.D  
Injection Date: 25-Jan-2020 16:10:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-6 Lab Sample ID: 180-101459-6  
Client ID: HD-COD-SW-6-0/1-0  
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
4.61	73.00	433	0.085716
4.61	41.00	269	

Reviewer: bowieh, 28-Jan-2020 08:56:45

Audit Action: Marked Compound Undetected

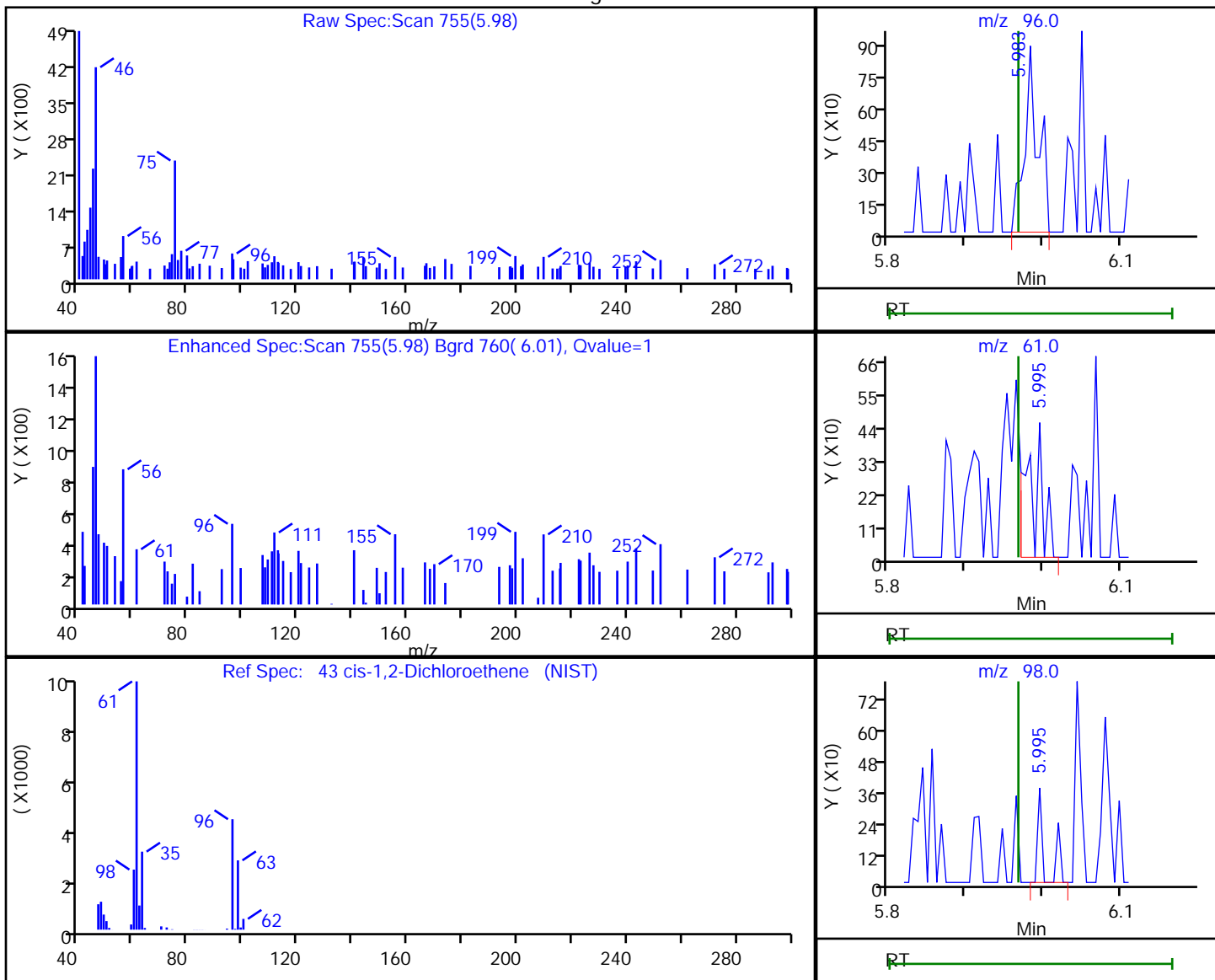
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012513.D  
 Injection Date: 25-Jan-2020 16:10:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-6 Lab Sample ID: 180-101459-6  
 Client ID: HD-COD-SW-6-0/1-0  
 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	1106	0.393922
6.00	61.00	582	
6.00	98.00	221	

Reviewer: bowieh, 28-Jan-2020 08:56:47

Audit Action: Marked Compound Undetected

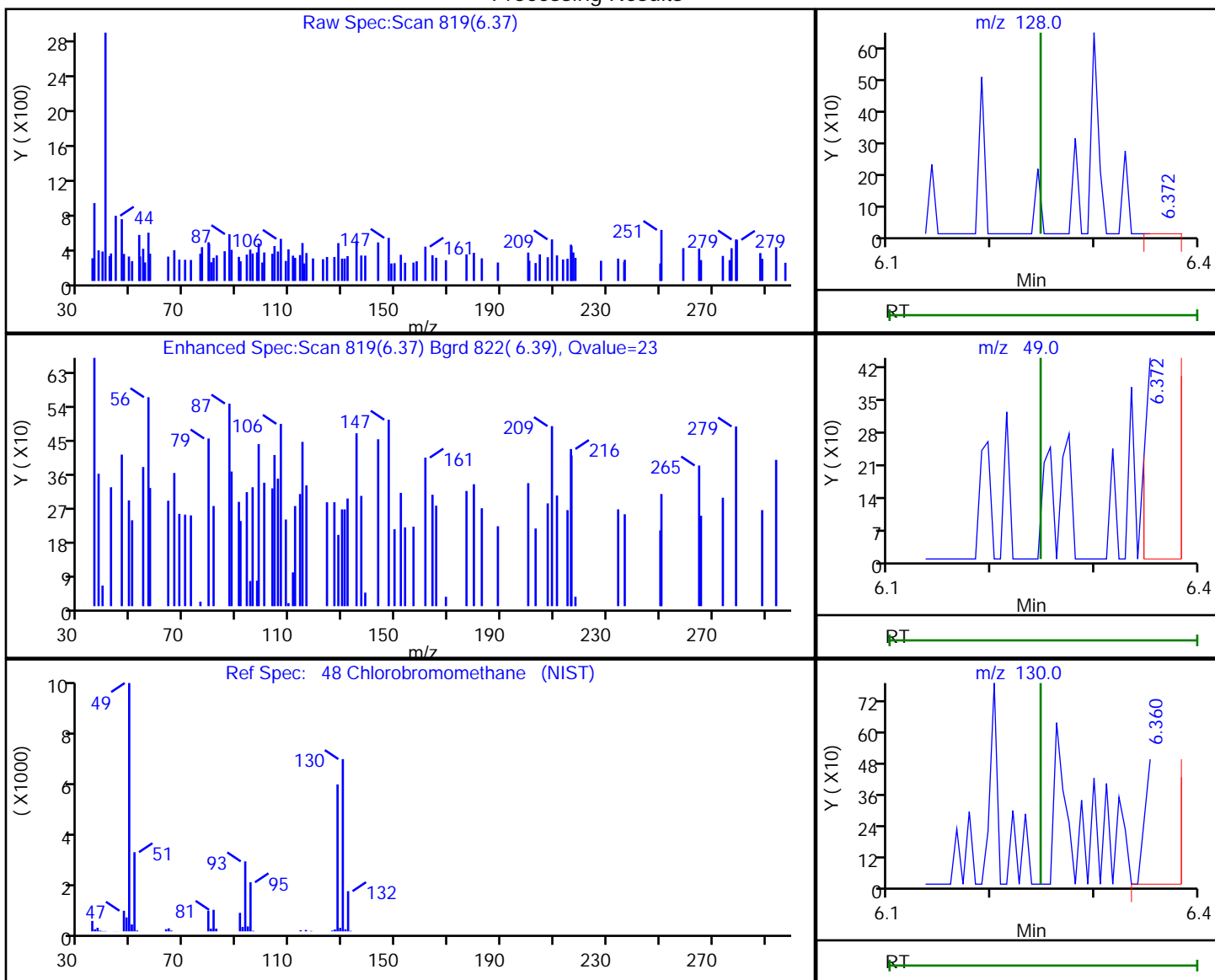
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012513.D  
 Injection Date: 25-Jan-2020 16:10:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-6 Lab Sample ID: 180-101459-6  
 Client ID: HD-COD-SW-6-0/1-0  
 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

48 Chlorobromomethane, CAS: 74-97-5

Processing Results



RT	Mass	Response	Amount
6.37	128.00	331	0.229114
6.37	49.00	430	
6.36	130.00	621	

Reviewer: bowieh, 28-Jan-2020 08:56:50

Audit Action: Marked Compound Undetected

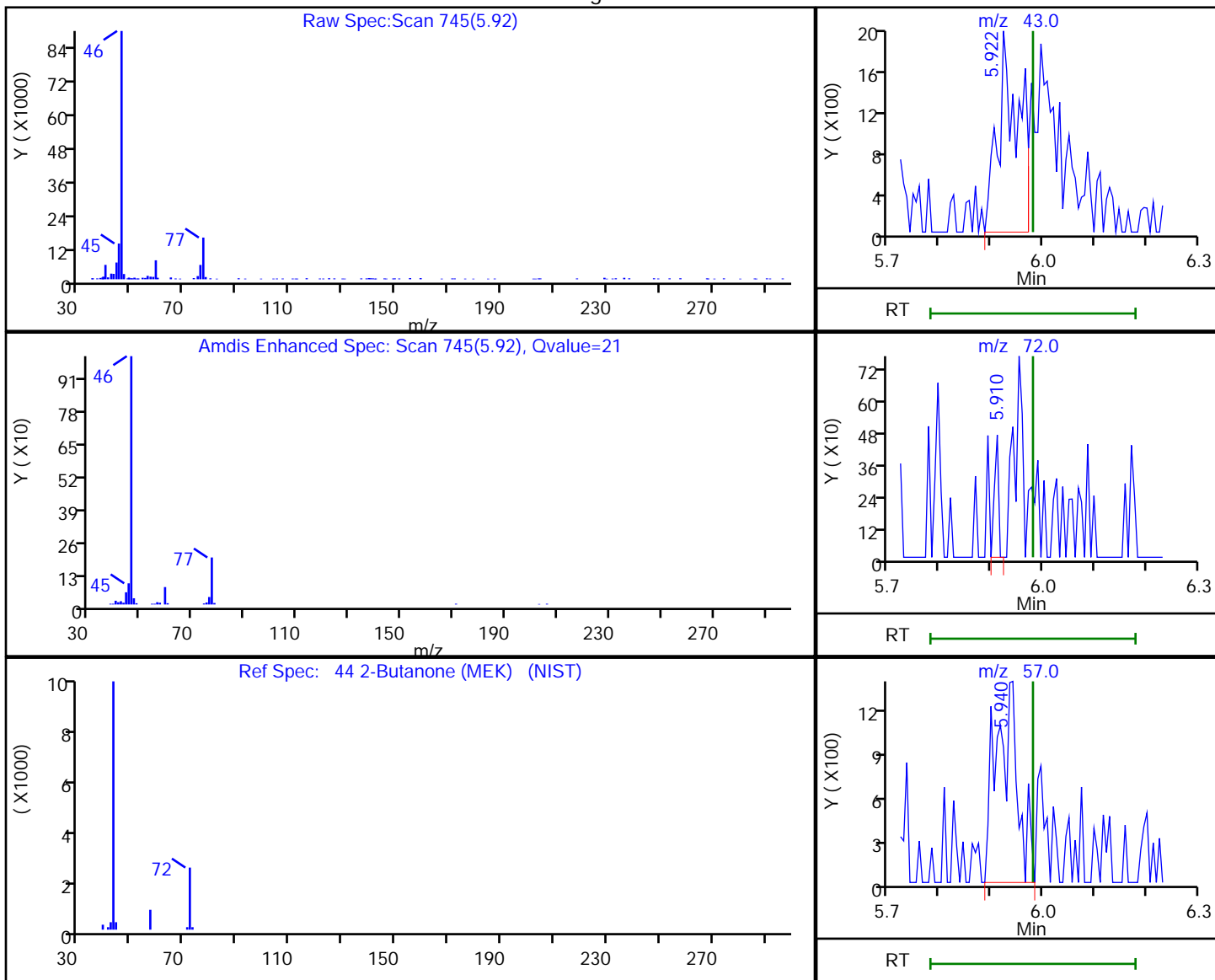
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012513.D  
 Injection Date: 25-Jan-2020 16:10:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-6 Lab Sample ID: 180-101459-6  
 Client ID: HD-COD-SW-6-0/1-0  
 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
5.92	43.00	5360	3.644737
5.91	72.00	259	
5.94	57.00	4080	

Reviewer: bowieh, 28-Jan-2020 08:56:49

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

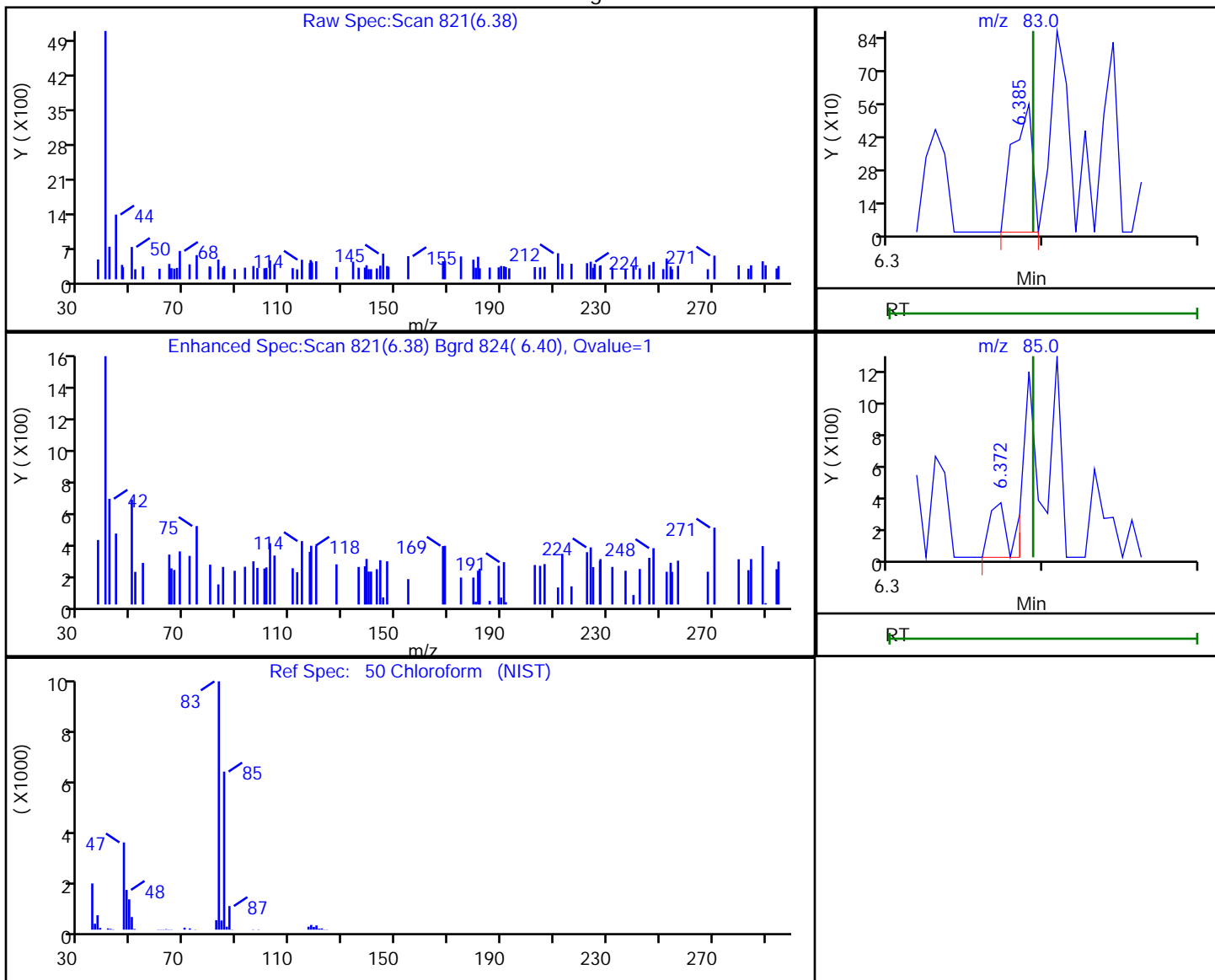


Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012513.D  
 Injection Date: 25-Jan-2020 16:10:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-6 Lab Sample ID: 180-101459-6  
 Client ID: HD-COD-SW-6-0/1-0  
 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
6.38	83.00	486	-3.796573
6.37	85.00	330	

Reviewer: bowieh, 28-Jan-2020 08:56:51

Audit Action: Marked Compound Undetected

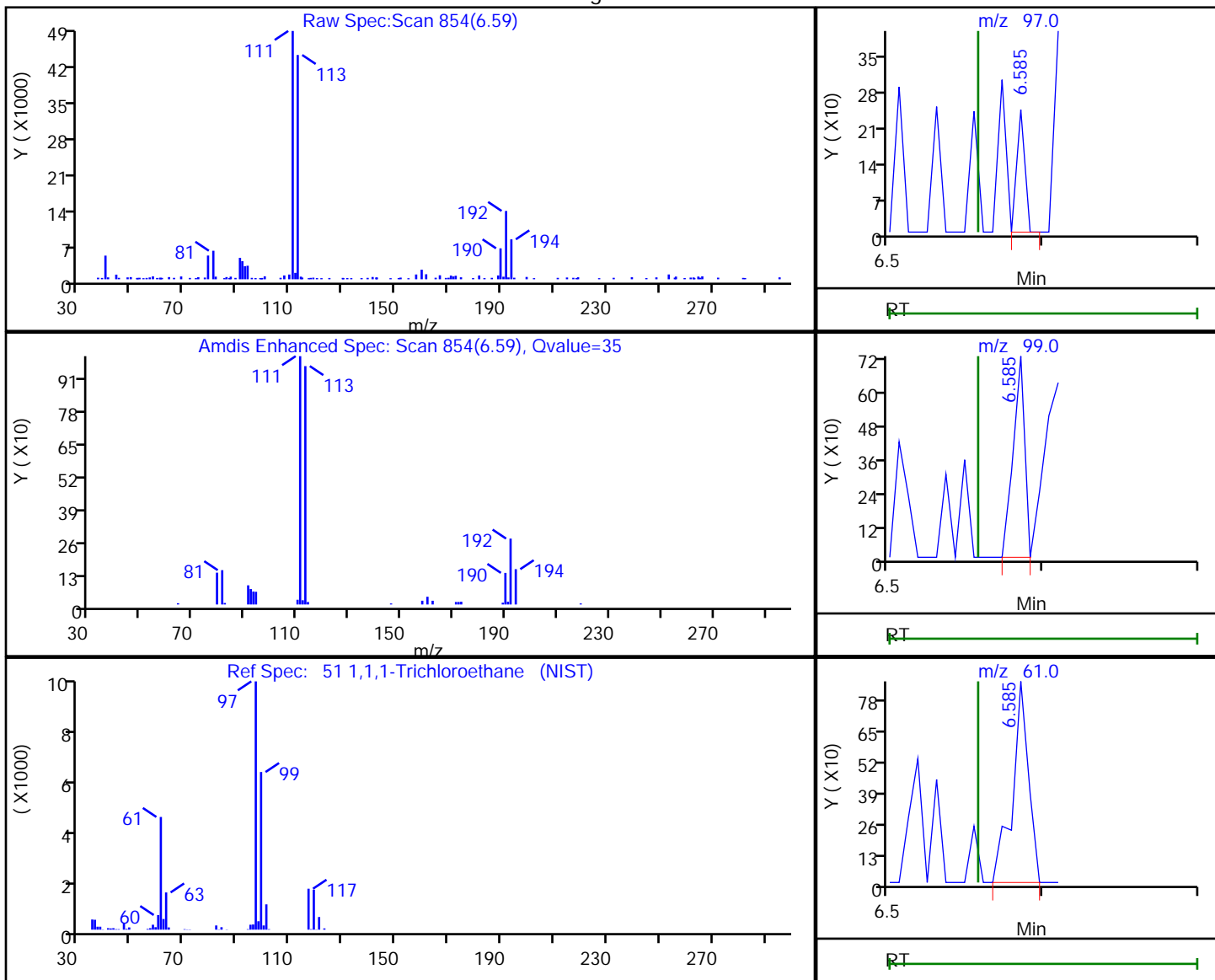
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Lims ID: 180-101459-B-6 Lab Sample ID: 180-101459-6  
 Client ID: HD-COD-SW-6-0/1-0  
 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
6.59	97.00	88	0.027229
6.59	99.00	375	
6.59	61.00	615	

Reviewer: bowieh, 28-Jan-2020 08:56:52

Audit Action: Marked Compound Undetected

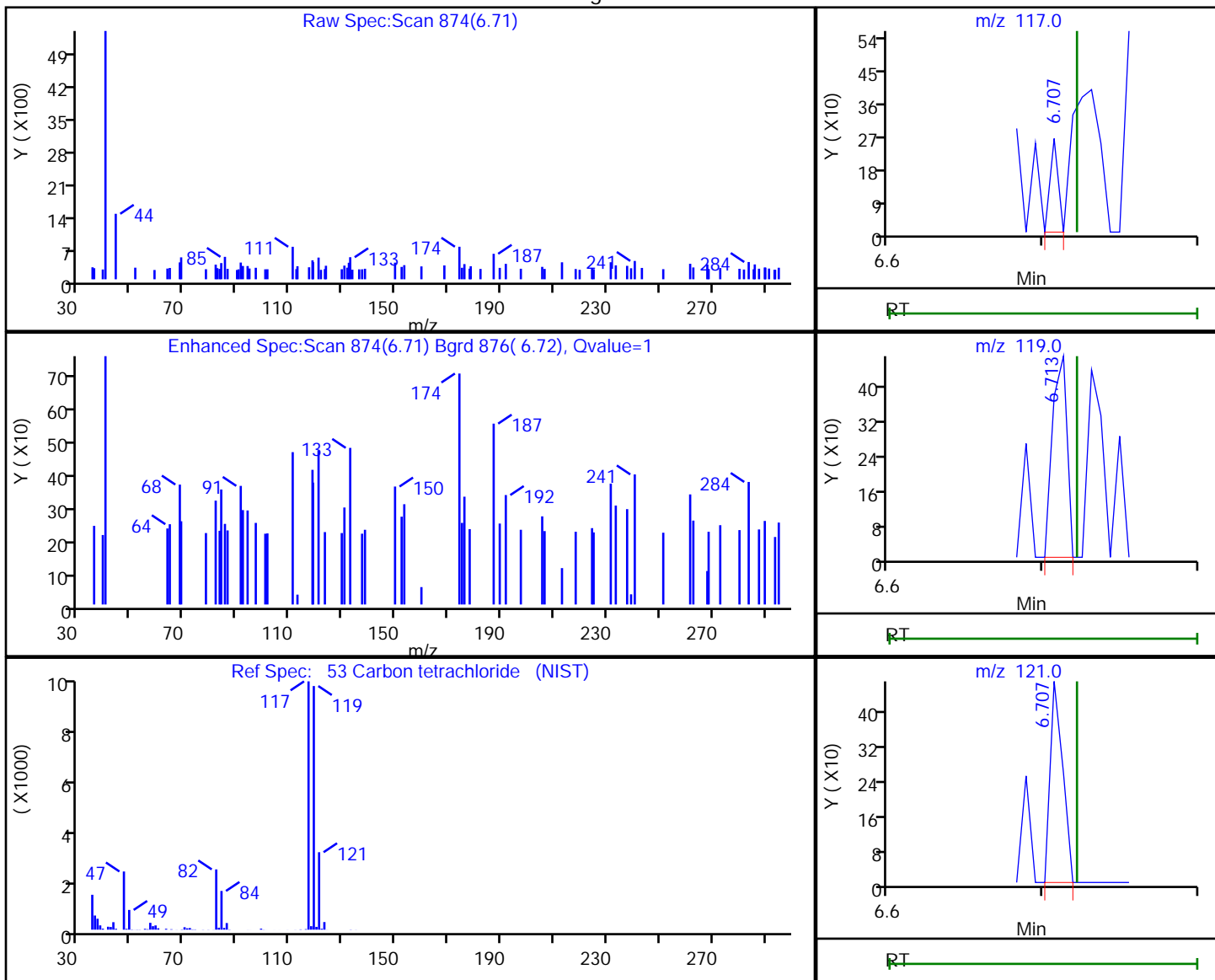
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Lims ID: 180-101459-B-6 Lab Sample ID: 180-101459-6  
Client ID: HD-COD-SW-6-0/1-0  
Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 13  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
Column: DB-624 (0.18 mm) Detector: MS SCAN

53 Carbon tetrachloride, CAS: 56-23-5

Processing Results



RT	Mass	Response	Amount
6.71	117.00	95	0.034952
6.71	119.00	306	
6.71	121.00	265	

Reviewer: bowieh, 28-Jan-2020 08:56:53

Audit Action: Marked Compound Undetected

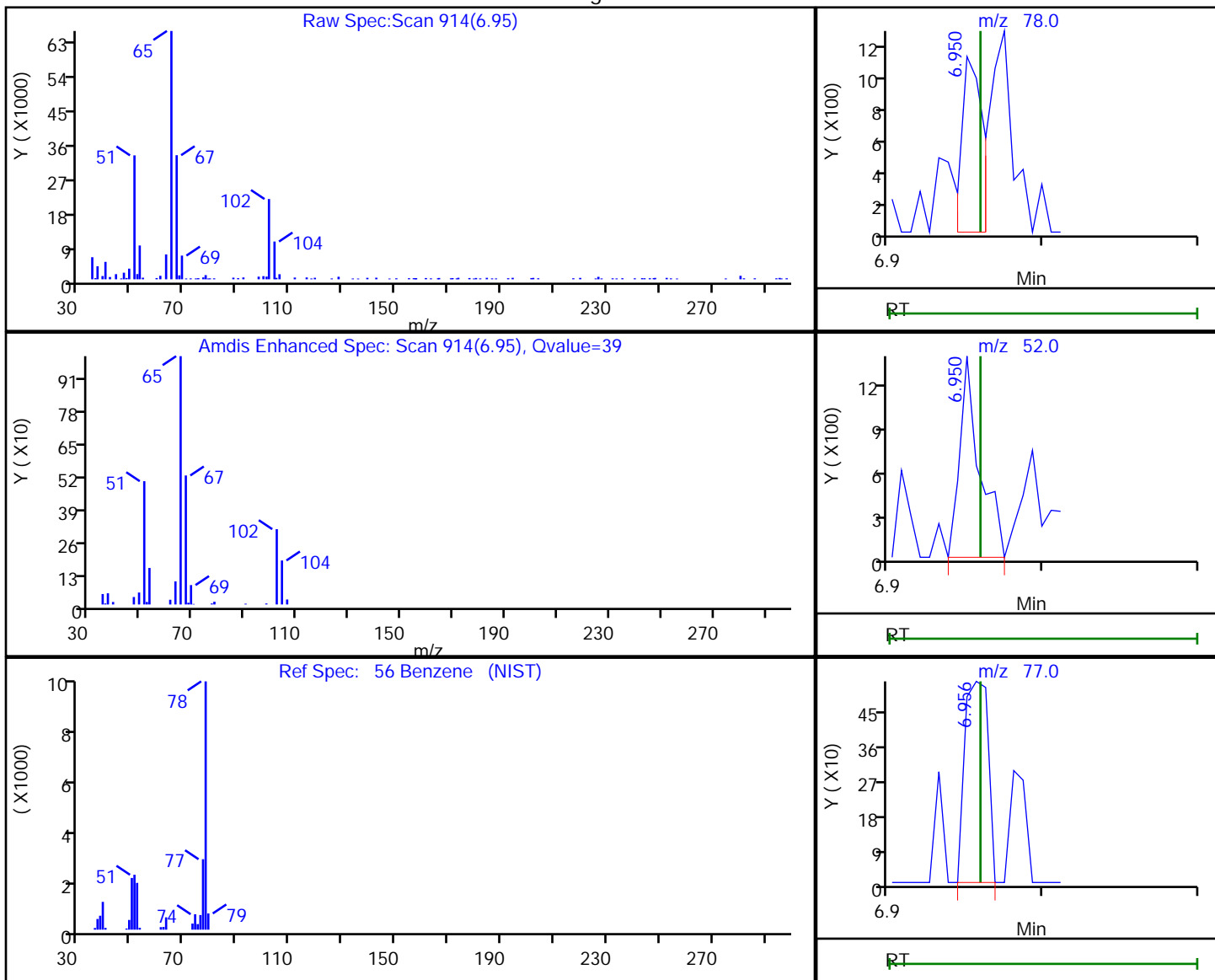
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 Lims ID: 180-101459-B-6 Lab Sample ID: 180-101459-6  
 Client ID: HD-COD-SW-6-0/1-0  
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 13  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
 Column: DB-624 (0.18 mm) Detector: MS SCAN

56 Benzene, CAS: 71-43-2

Processing Results



RT	Mass	Response	Amount
6.95	78.00	1047	0.101133
6.95	52.00	1237	
6.96	77.00	552	

Reviewer: bowieh, 28-Jan-2020 08:56:55

Audit Action: Marked Compound Undetected

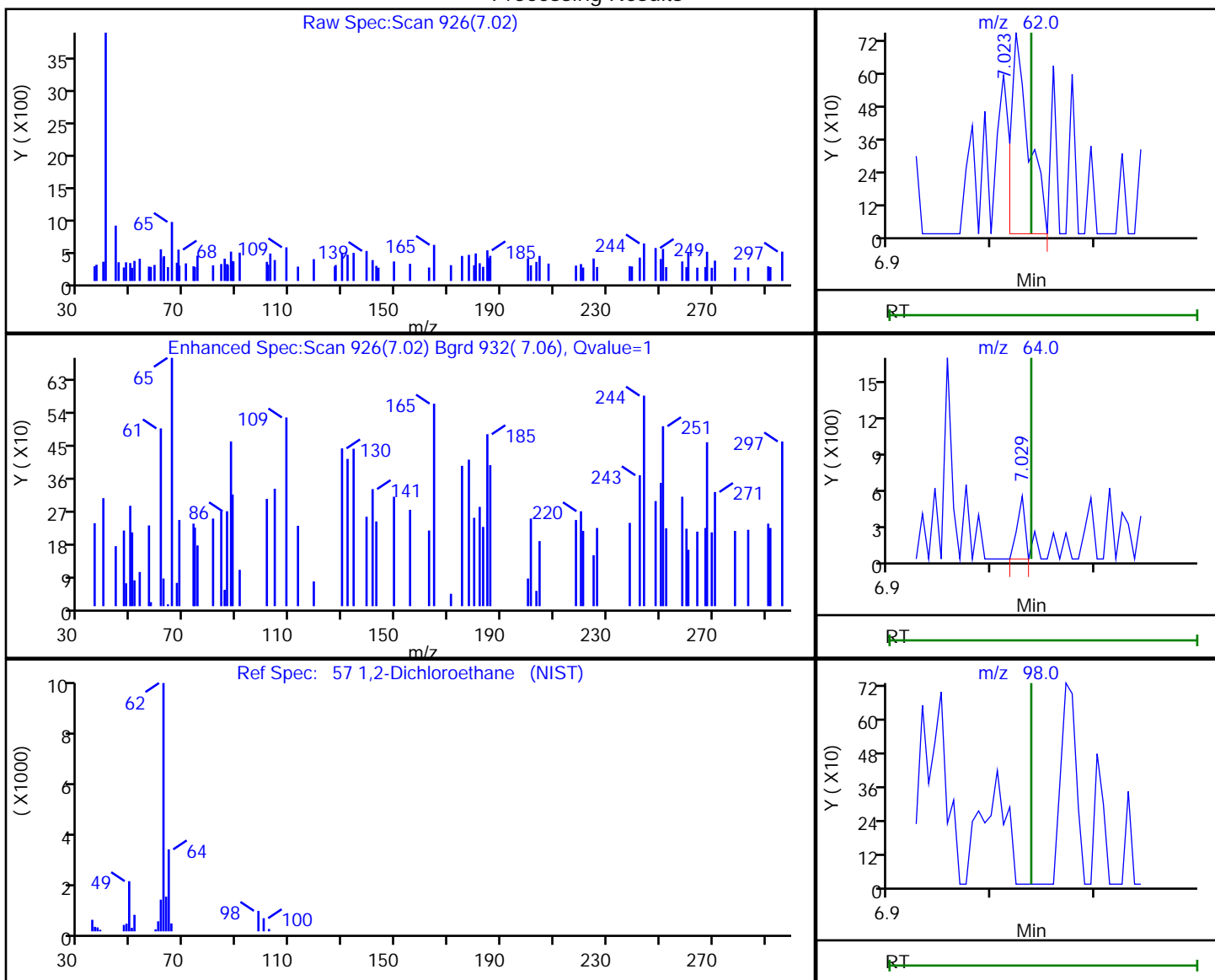
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 Lims ID: 180-101459-B-6 Lab Sample ID: 180-101459-6  
 Client ID: HD-COD-SW-6-0/1-0  
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 13  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
 Column: DB-624 (0.18 mm) Detector: MS SCAN

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

Processing Results



RT	Mass	Response	Amount
7.02	62.00	886	0.310730
7.03	64.00	261	
7.04	98.00	0	

Reviewer: bowieh, 28-Jan-2020 08:56:56

Audit Action: Marked Compound Undetected

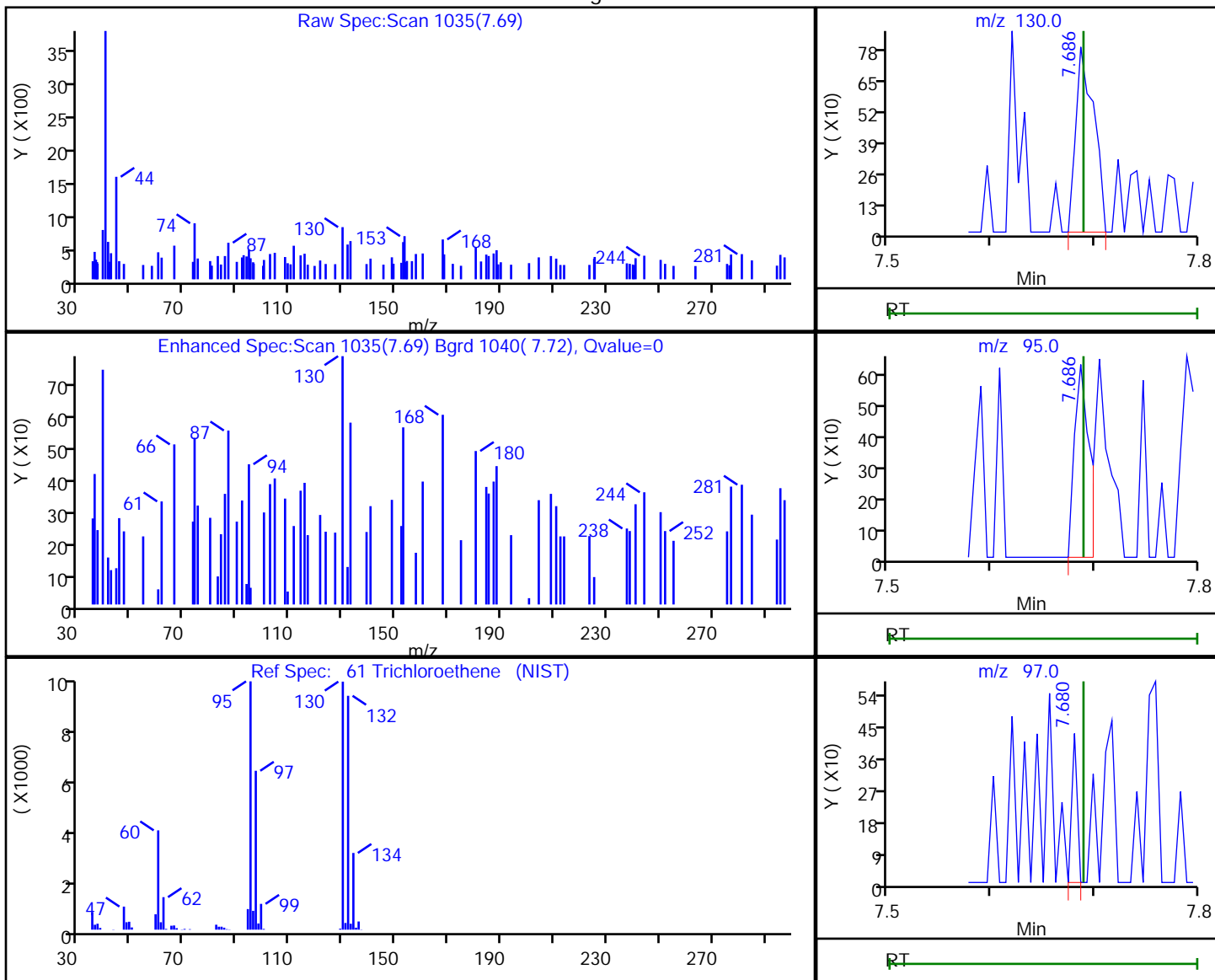
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 Client ID: HD-COD-SW-6-0/1-0  
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 13  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
 Column: DB-624 (0.18 mm) Detector: MS SCAN

61 Trichloroethene, CAS: 79-01-6

Processing Results



RT	Mass	Response	Amount
7.69	130.00	964	0.314133
7.69	95.00	631	
7.68	97.00	154	

Reviewer: bowieh, 28-Jan-2020 08:56:57

Audit Action: Marked Compound Undetected

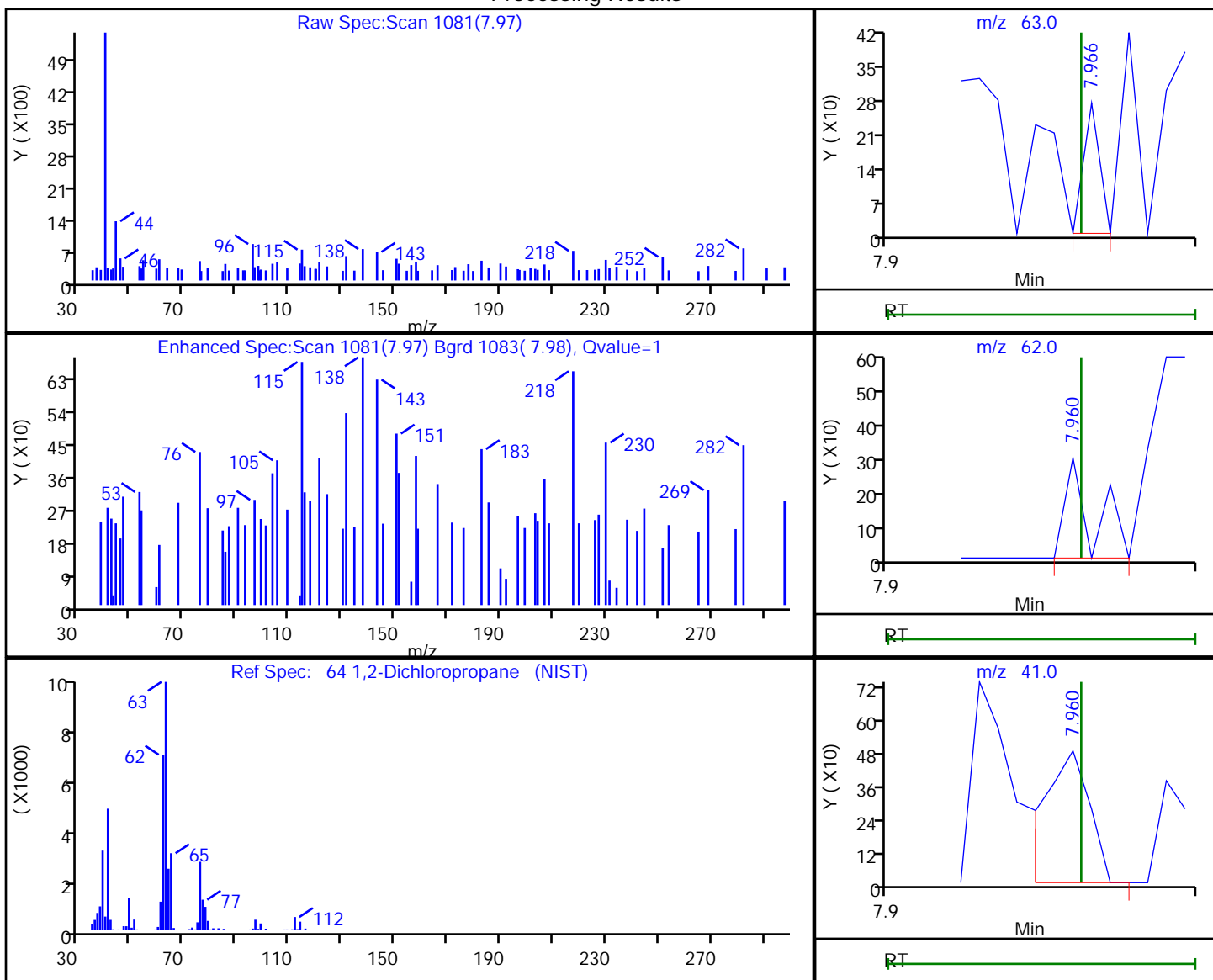
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 Client ID: HD-COD-SW-6-0/1-0  
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 13  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
 Column: DB-624 (0.18 mm) Detector: MS SCAN

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

Processing Results



RT	Mass	Response	Amount
7.97	63.00	98	0.040438
7.96	62.00	189	
7.96	41.00	506	

Reviewer: bowieh, 28-Jan-2020 08:56:58

Audit Action: Marked Compound Undetected

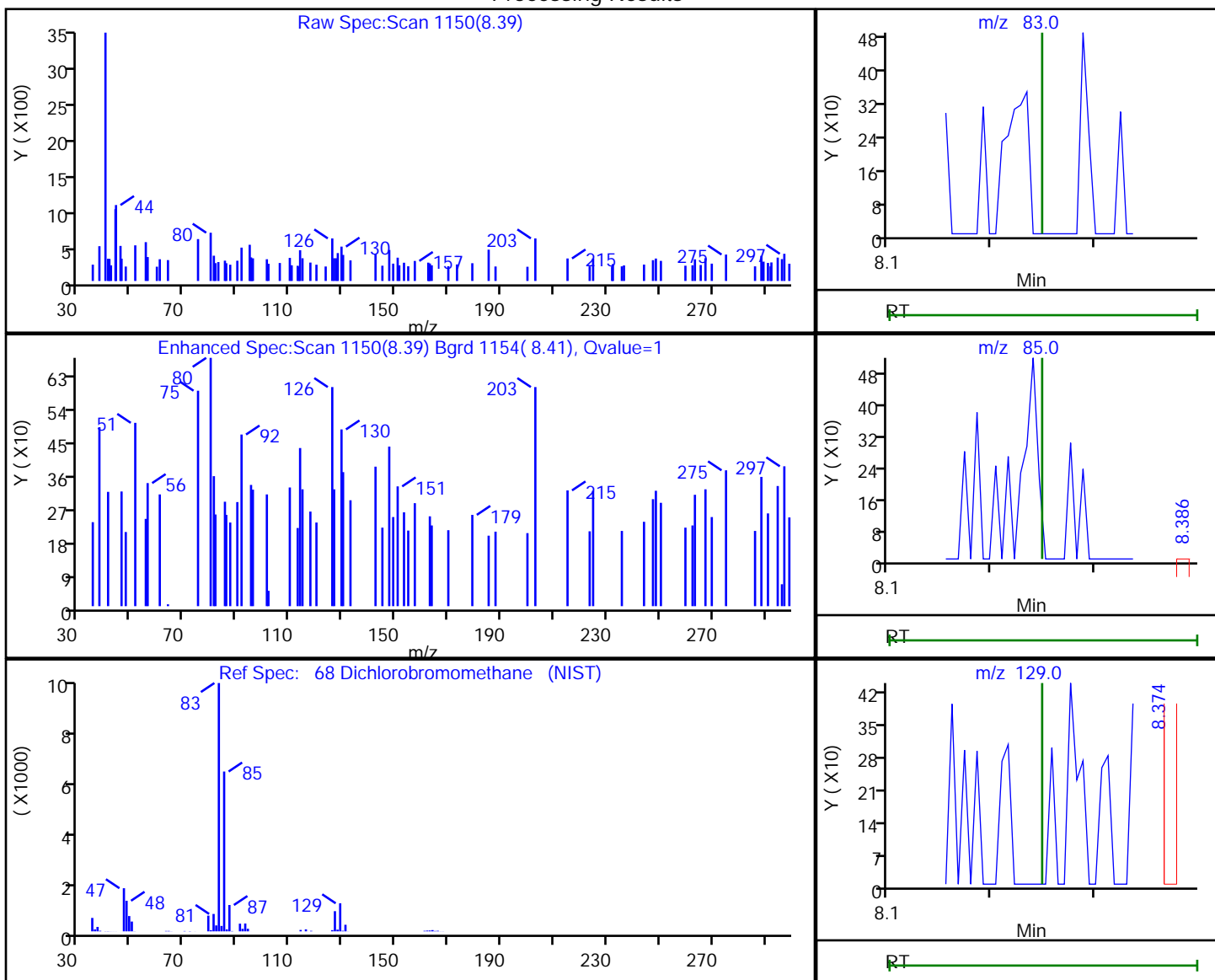
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 Lims ID: 180-101459-B-6 Lab Sample ID: 180-101459-6  
 Client ID: HD-COD-SW-6-0/1-0  
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 13  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
 Column: DB-624 (0.18 mm) Detector: MS SCAN

68 Dichlorobromomethane, CAS: 75-27-4

Processing Results



RT	Mass	Response	Amount
8.39	83.00	174	0.076810
8.39	85.00	104	
8.37	129.00	219	

Reviewer: bowieh, 28-Jan-2020 08:56:59

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

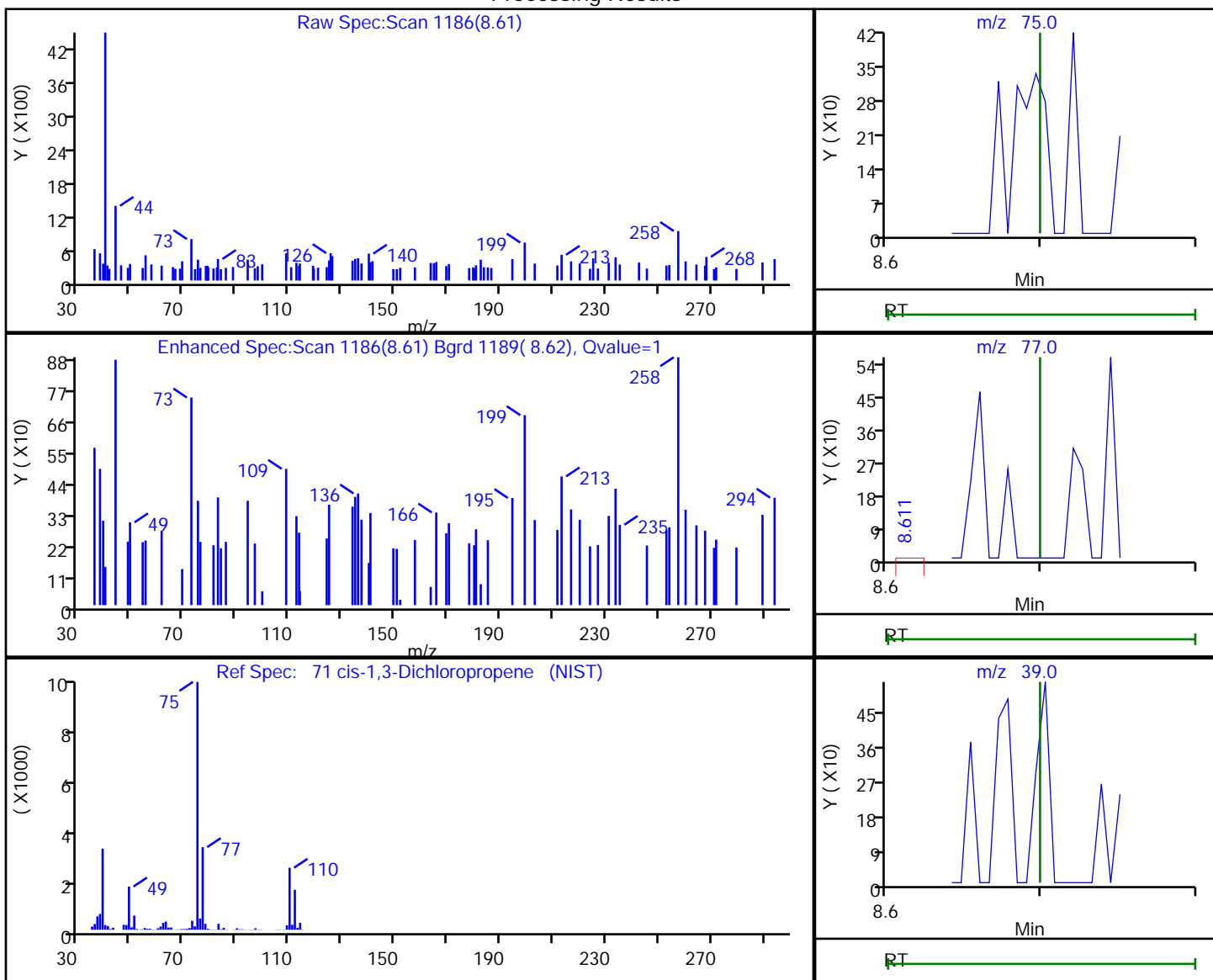


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 Client ID: HD-COD-SW-6-0/1-0  
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 13  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
 Column: DB-624 (0.18 mm) Detector: MS SCAN

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

Processing Results



RT	Mass	Response	Amount
8.61	75.00	247	0.084315
8.61	77.00	227	
8.61	39.00	210	

Reviewer: bowieh, 28-Jan-2020 08:57:01

Audit Action: Marked Compound Undetected

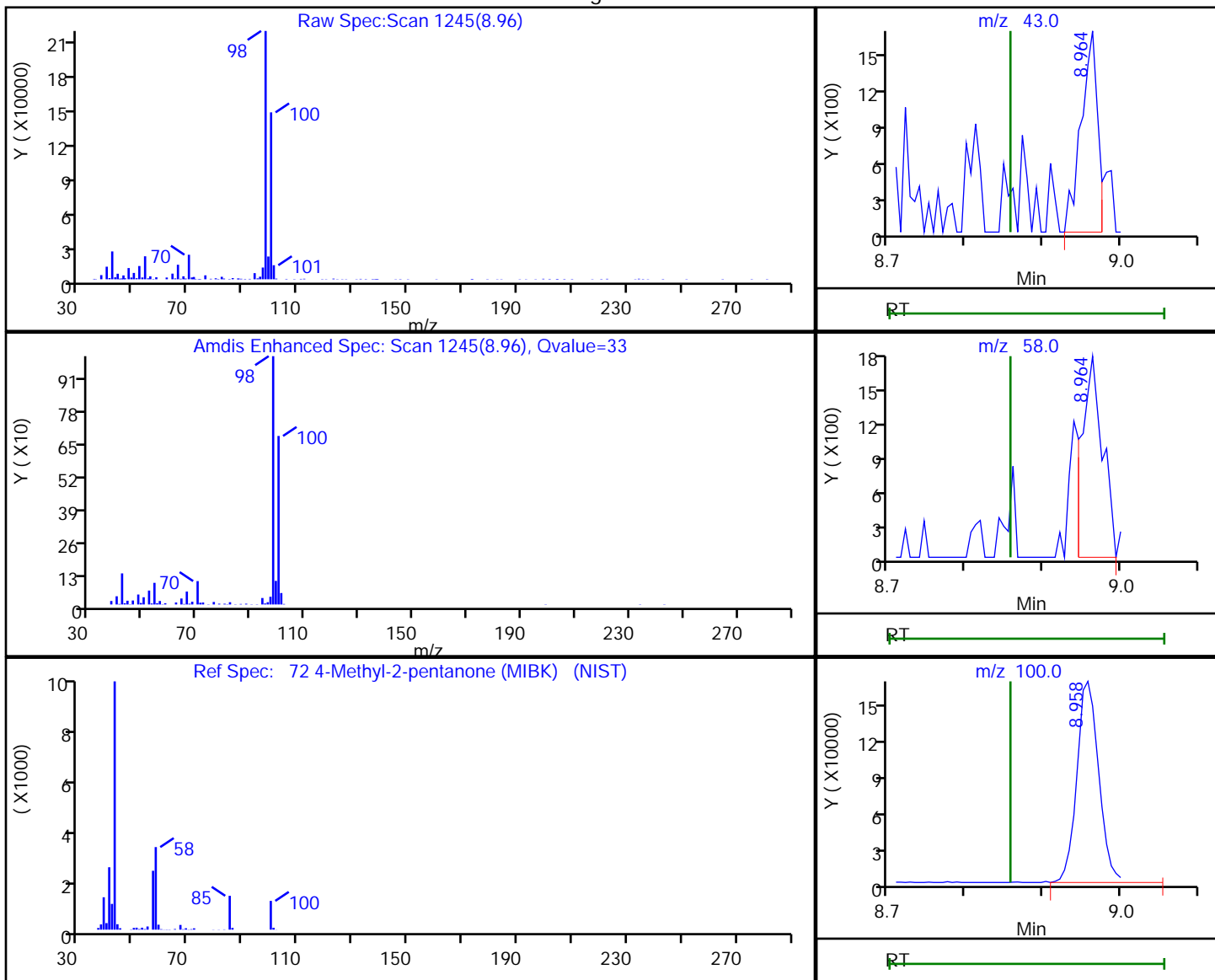
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 Lims ID: 180-101459-B-6 Lab Sample ID: 180-101459-6  
 Client ID: HD-COD-SW-6-0/1-0  
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 13  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
 Column: 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	2546	1.091192
8.96	58.00	3147	
8.96	100.00	332598	

Reviewer: bowieh, 28-Jan-2020 08:57:02

Audit Action: Marked Compound Undetected

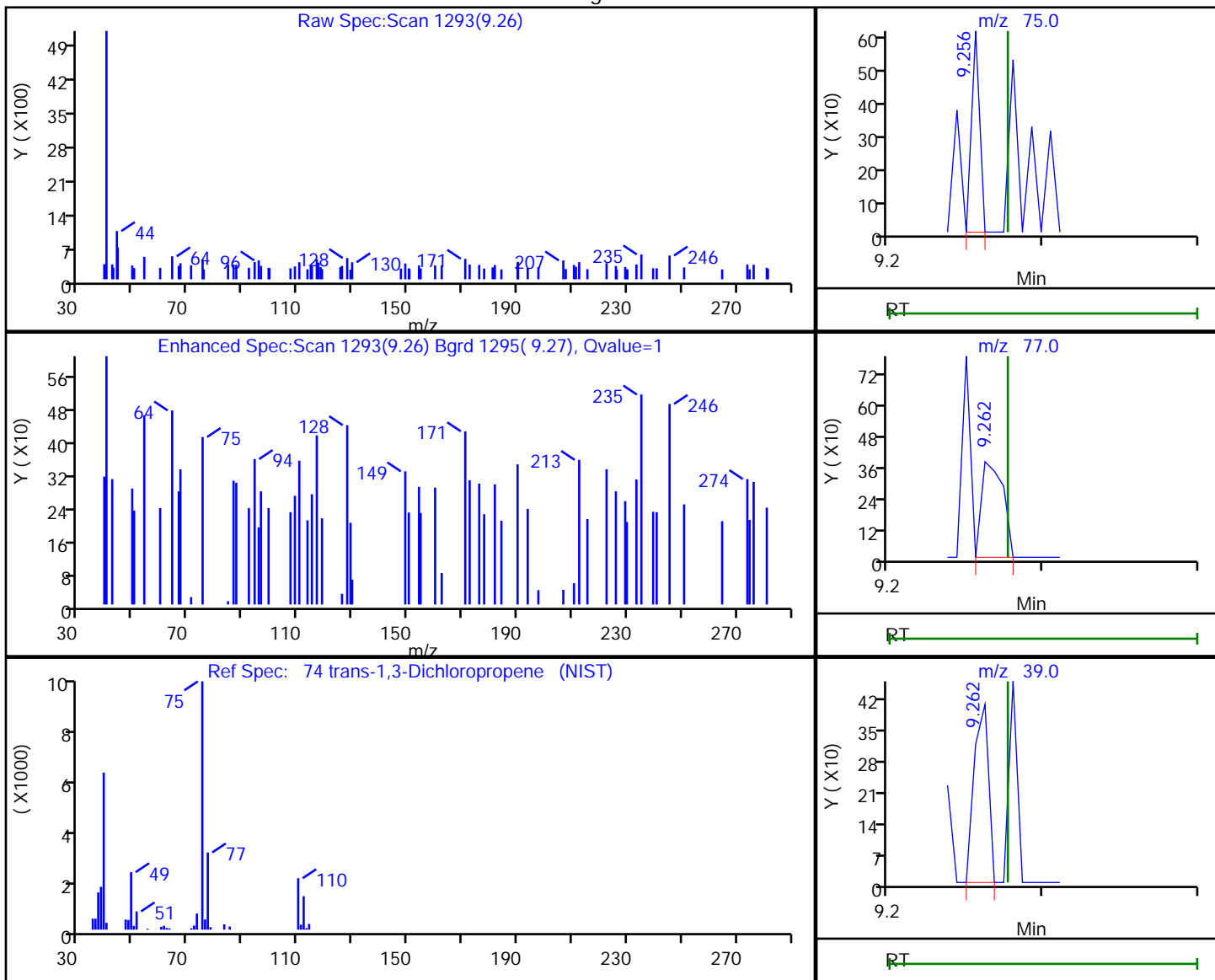
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Lims ID: 180-101459-B-6 Lab Sample ID: 180-101459-6  
 Client ID: HD-COD-SW-6-0/1-0  
 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
9.26	75.00	224	0.082617
9.26	77.00	361	
9.26	39.00	261	

Reviewer: bowieh, 28-Jan-2020 08:57:05  
 Audit Action: Marked Compound Undetected

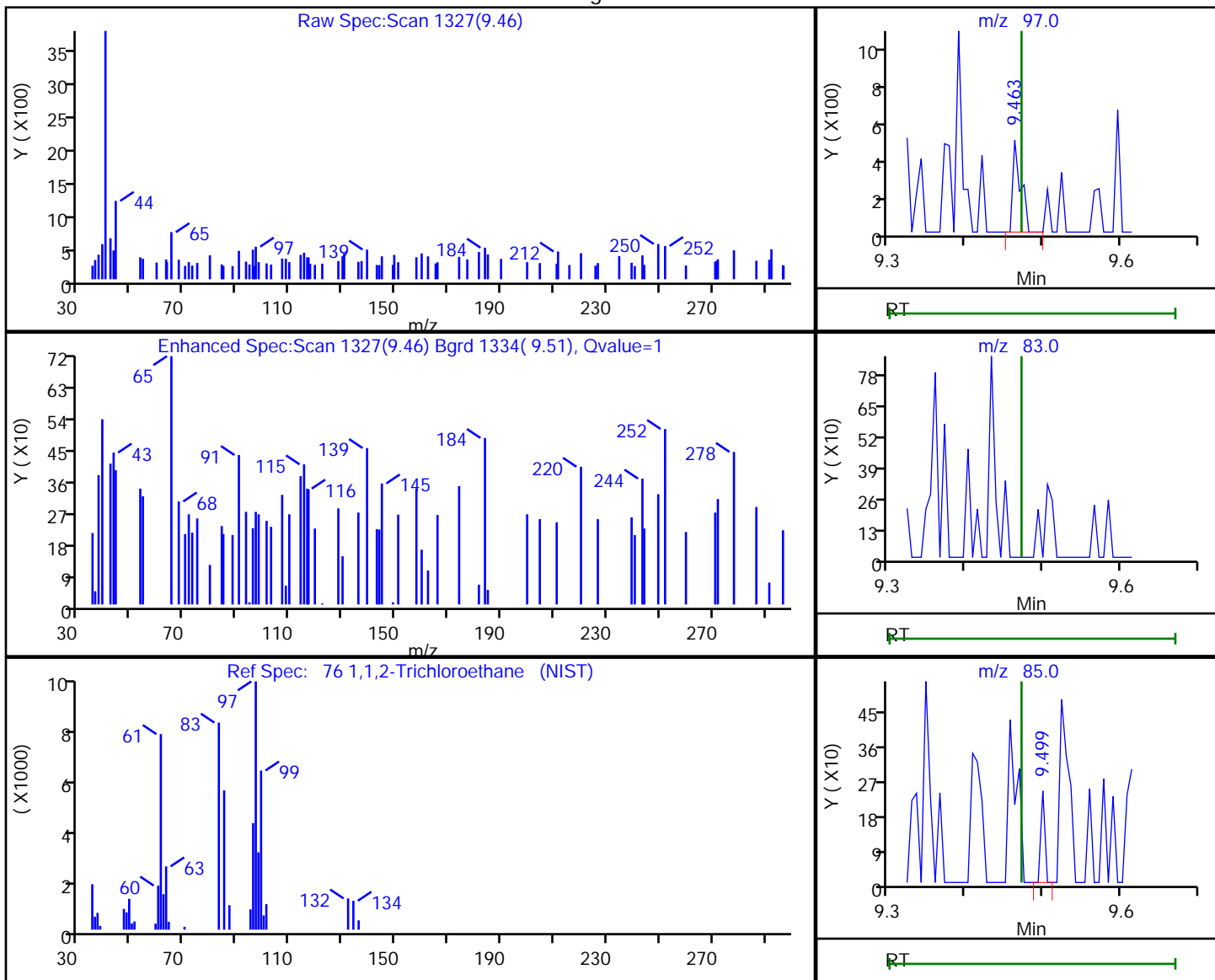
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 Lims ID: 180-101459-B-6 Lab Sample ID: 180-101459-6  
 Client ID: HD-COD-SW-6-0/1-0  
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 13  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
 Column: DB-624 (0.18 mm) Detector: MS SCAN

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

Processing Results



RT	Mass	Response	Amount
9.46	97.00	354	0.156900
9.47	83.00	0	
9.50	85.00	87	

Reviewer: bowieh, 28-Jan-2020 08:57:06

Audit Action: Marked Compound Undetected

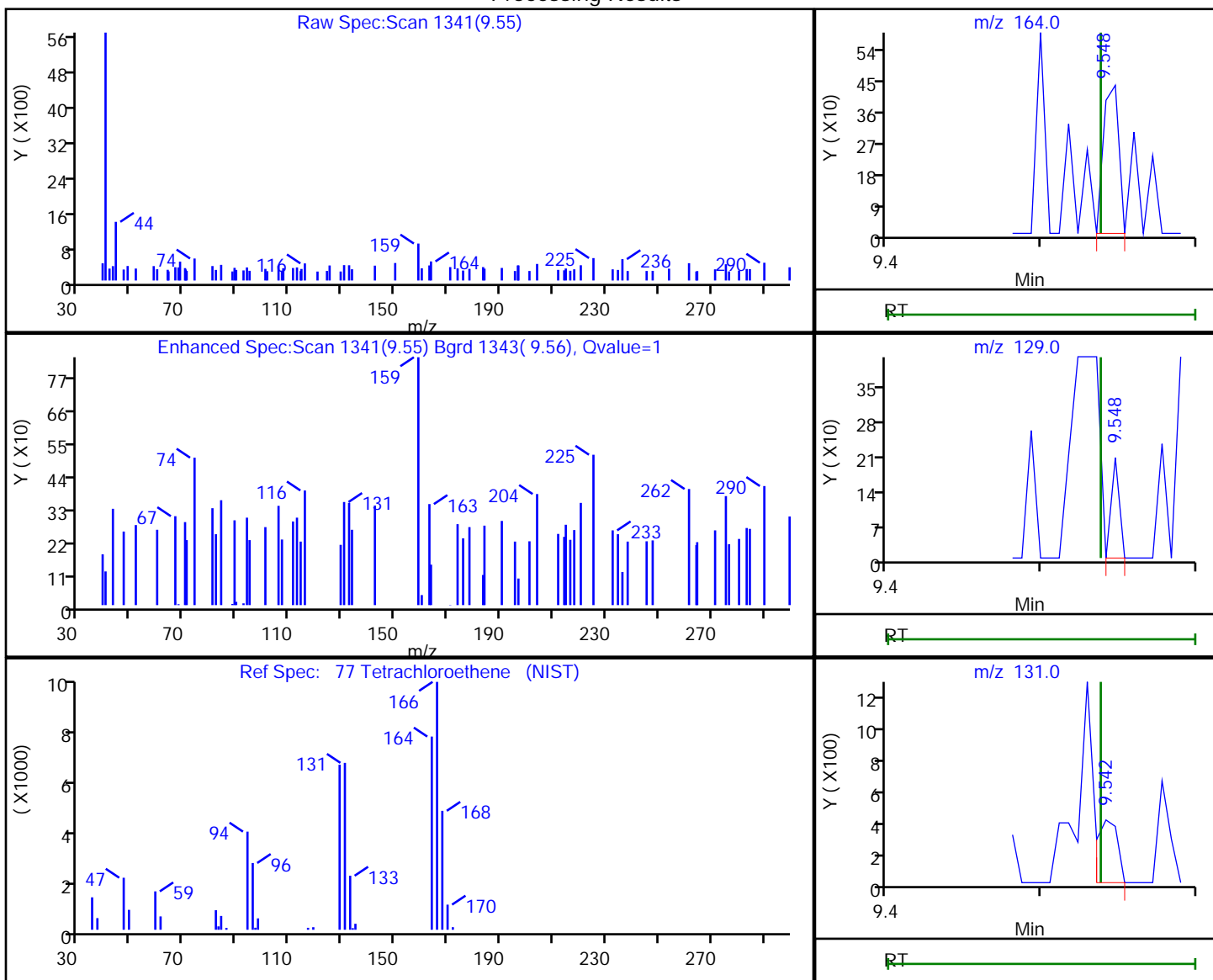
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Eurofins TestAmerica, Pittsburgh

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 Lims ID: 180-101459-B-6 Lab Sample ID: 180-101459-6  
 Client ID: HD-COD-SW-6-0/1-0  
 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

77 Tetrachloroethene, CAS: 127-18-4

Processing Results



RT	Mass	Response	Amount
9.55	164.00	300	0.097917
9.55	129.00	74	
9.54	131.00	367	

Reviewer: bowieh, 28-Jan-2020 08:57:07

Audit Action: Marked Compound Undetected

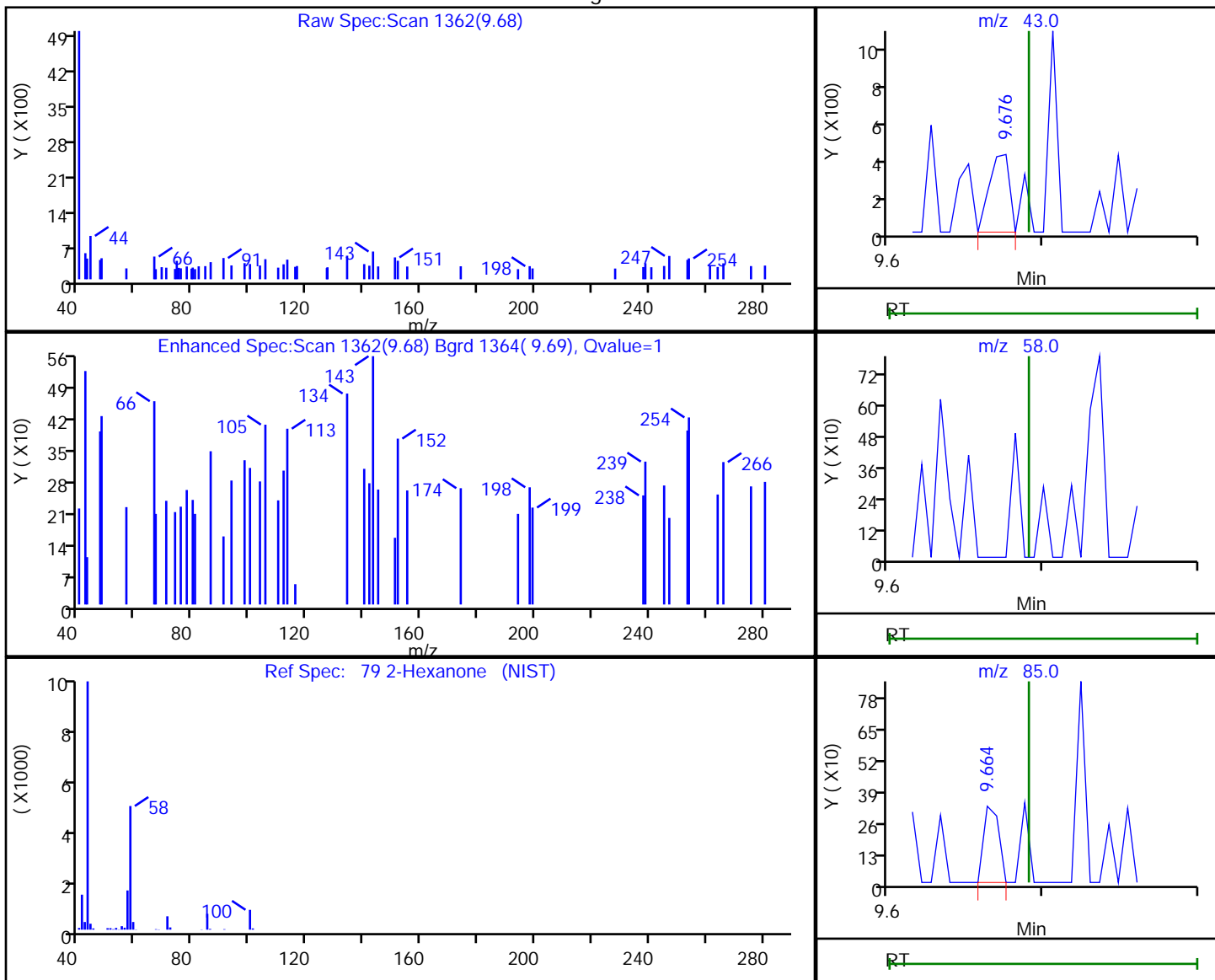
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Eurofins TestAmerica, Pittsburgh

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 Lims ID: 180-101459-B-6 Lab Sample ID: 180-101459-6  
 Client ID: HD-COD-SW-6-0/1-0  
 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
9.68	43.00	372	0.185087
9.69	58.00	0	
9.66	85.00	219	

Reviewer: bowieh, 28-Jan-2020 08:57:08

Audit Action: Marked Compound Undetected

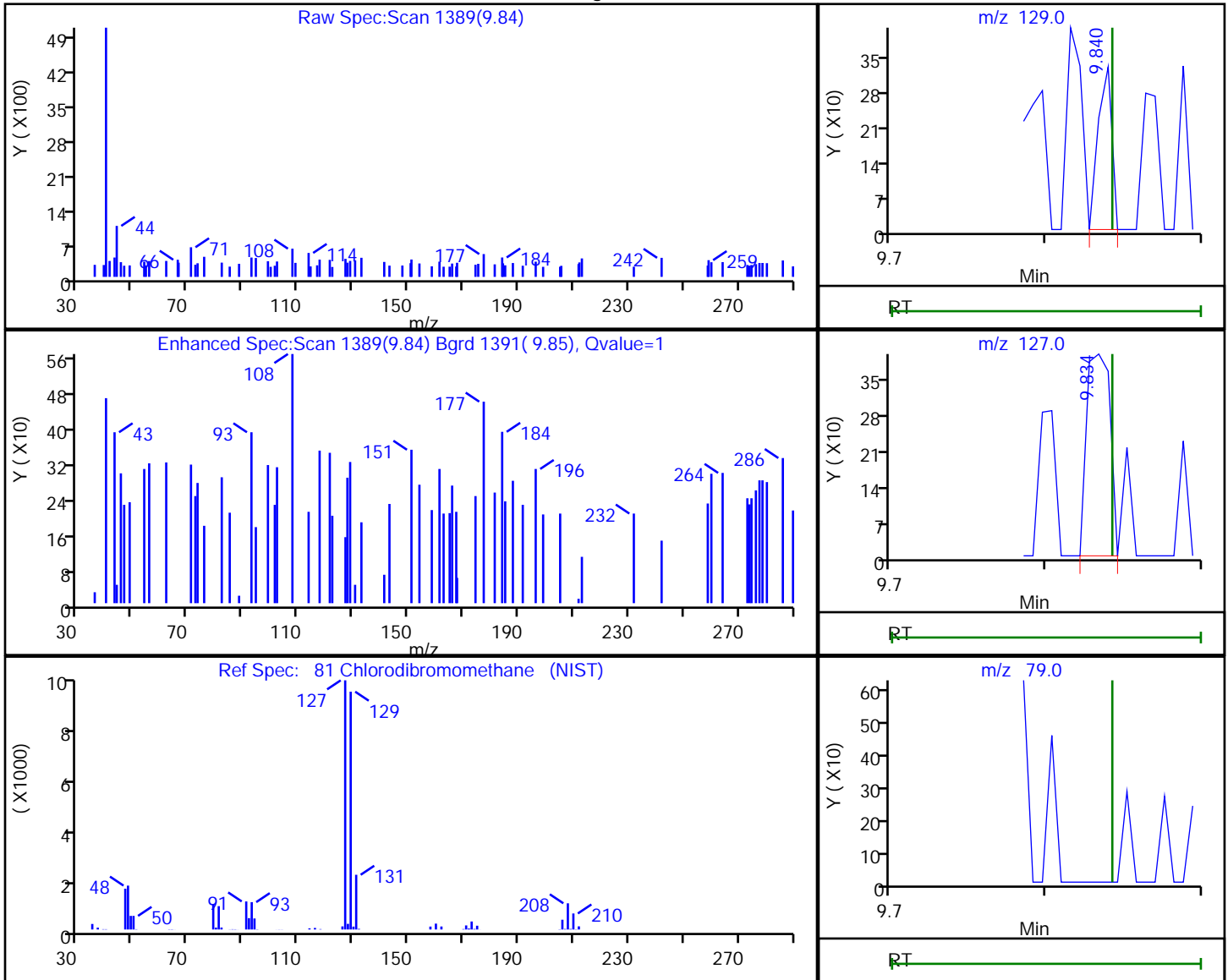
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Lims ID: 180-101459-B-6 Lab Sample ID: 180-101459-6  
Client ID: HD-COD-SW-6-0/1-0  
Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 13  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
Column: DB-624 (0.18 mm) Detector: MS SCAN

81 Chlorodibromomethane, CAS: 124-48-1

Processing Results



RT	Mass	Response	Amount
9.84	129.00	199	0.104431
9.83	127.00	419	
9.84	79.00	0	

Reviewer: bowieh, 28-Jan-2020 08:57:09

Audit Action: Marked Compound Undetected

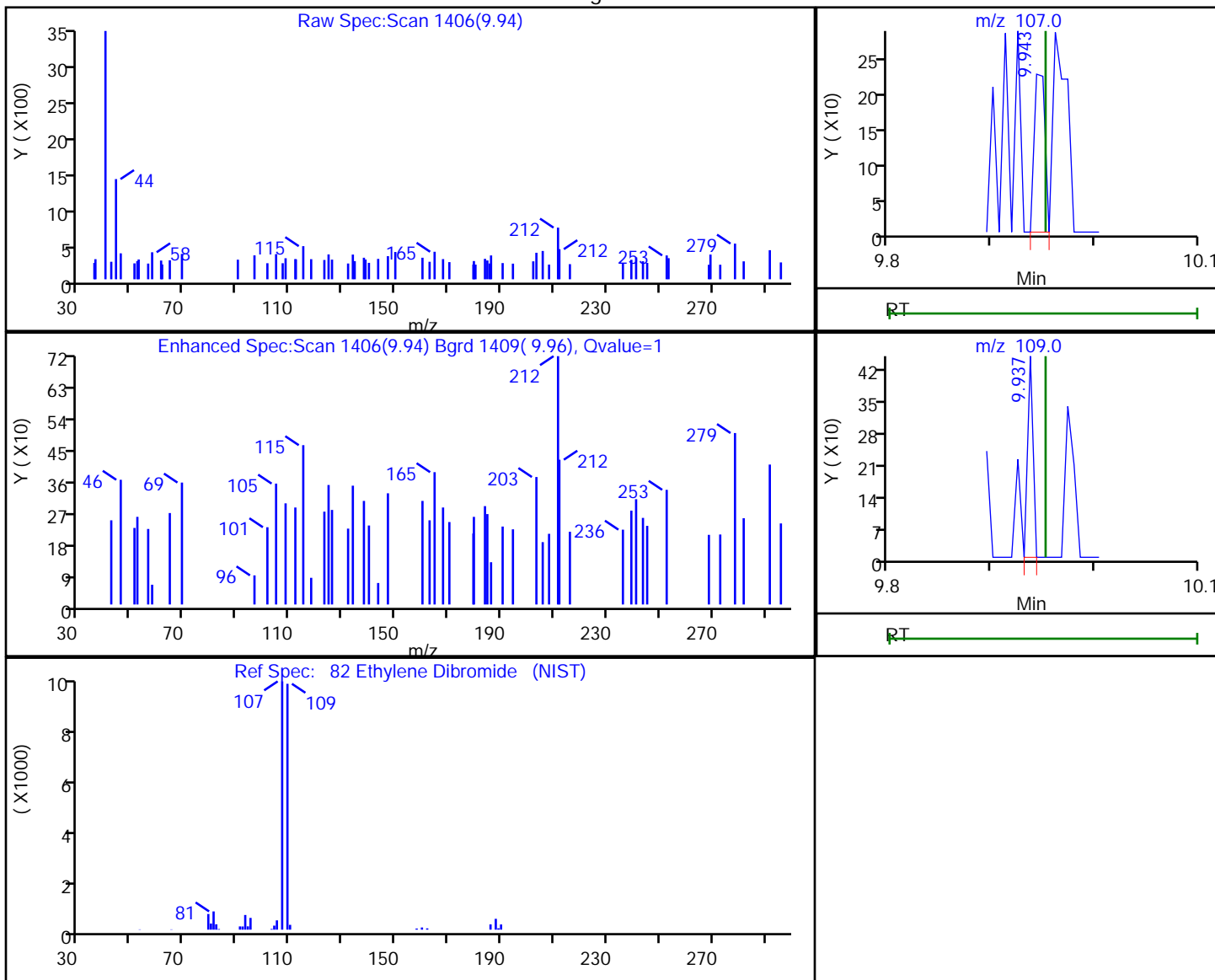
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Lims ID: 180-101459-B-6 Lab Sample ID: 180-101459-6  
Client ID: HD-COD-SW-6-0/1-0  
Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 13  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
Column: DB-624 (0.18 mm) Detector: MS SCAN

82 Ethylene Dibromide, CAS: 106-93-4

Processing Results



RT	Mass	Response	Amount
9.94	107.00	162	0.072754
9.94	109.00	162	

Reviewer: bowieh, 28-Jan-2020 08:57:10

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

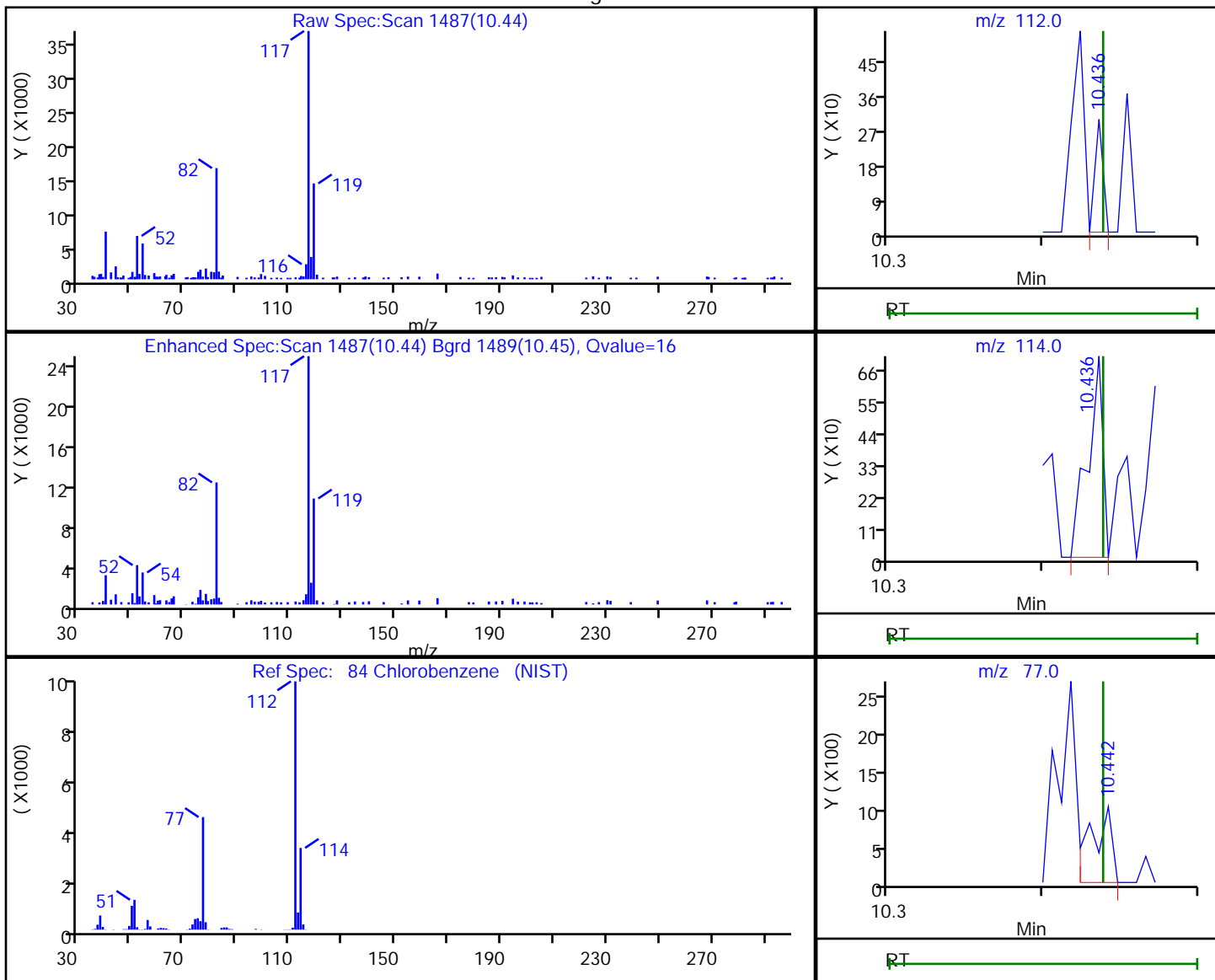


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 Lims ID: 180-101459-B-6 Lab Sample ID: 180-101459-6  
 Client ID: HD-COD-SW-6-0/1-0  
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 13  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
 Column: DB-624 (0.18 mm) Detector: MS SCAN

84 Chlorobenzene, CAS: 108-90-7

Processing Results



RT	Mass	Response	Amount
10.44	112.00	107	0.012943
10.44	114.00	483	
10.44	77.00	976	

Reviewer: bowieh, 28-Jan-2020 08:57:11

Audit Action: Marked Compound Undetected

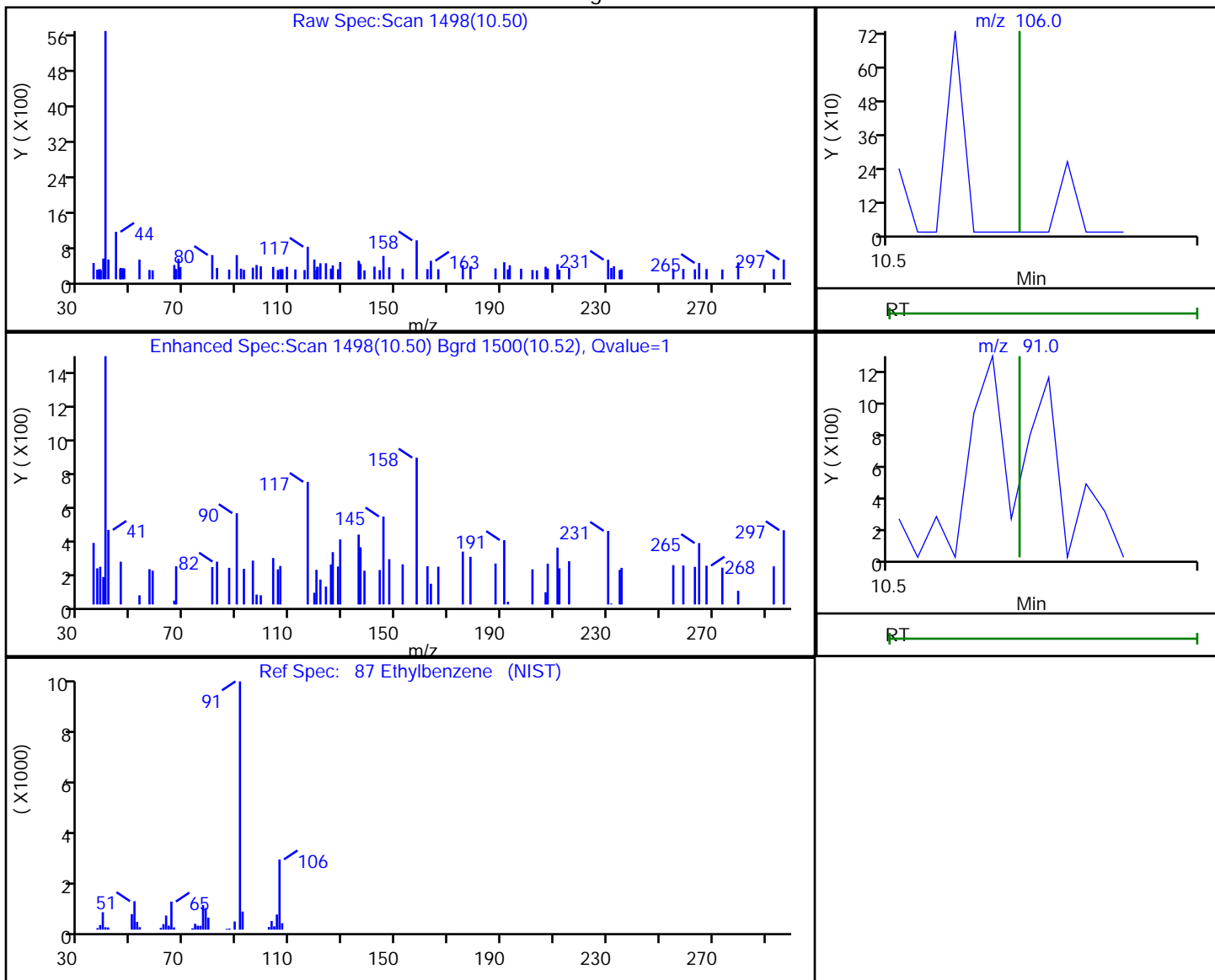
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Lims ID: 180-101459-B-6 Lab Sample ID: 180-101459-6  
Client ID: HD-COD-SW-6-0/1-0  
Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 13  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
Column: DB-624 (0.18 mm) Detector: MS SCAN

87 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
10.50	106.00	84	0.017756
10.50	91.00	229	

Reviewer: bowieh, 28-Jan-2020 08:57:13

Audit Action: Marked Compound Undetected

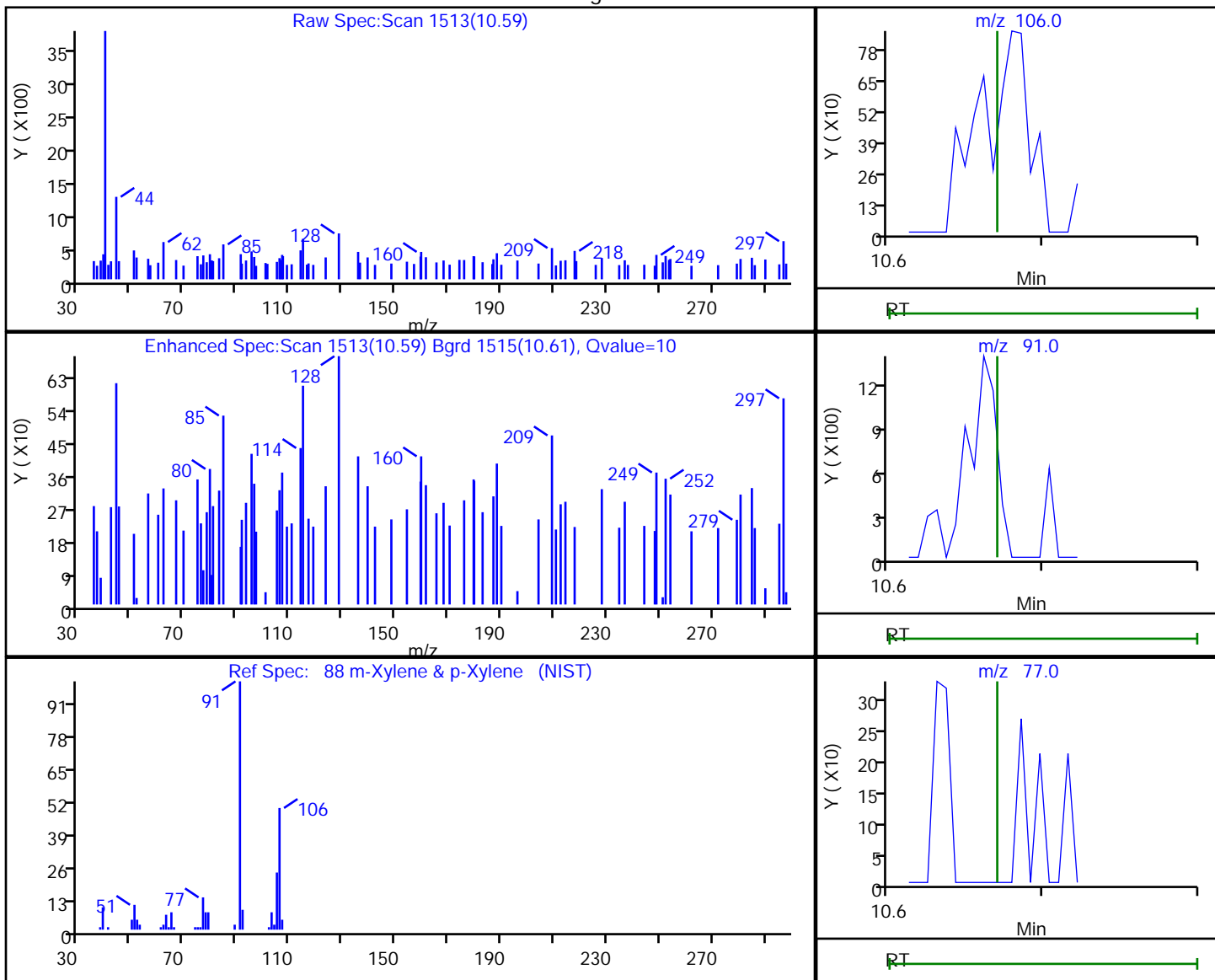
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 Lims ID: 180-101459-B-6 Lab Sample ID: 180-101459-6  
 Client ID: HD-COD-SW-6-0/1-0  
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 13  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
 Column: DB-624 (0.18 mm) Detector: MS SCAN

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

Processing Results



RT	Mass	Response	Amount
10.59	106.00	295	0.052020
10.59	91.00	382	
10.59	77.00	350	

Reviewer: bowieh, 28-Jan-2020 08:57:13

Audit Action: Marked Compound Undetected

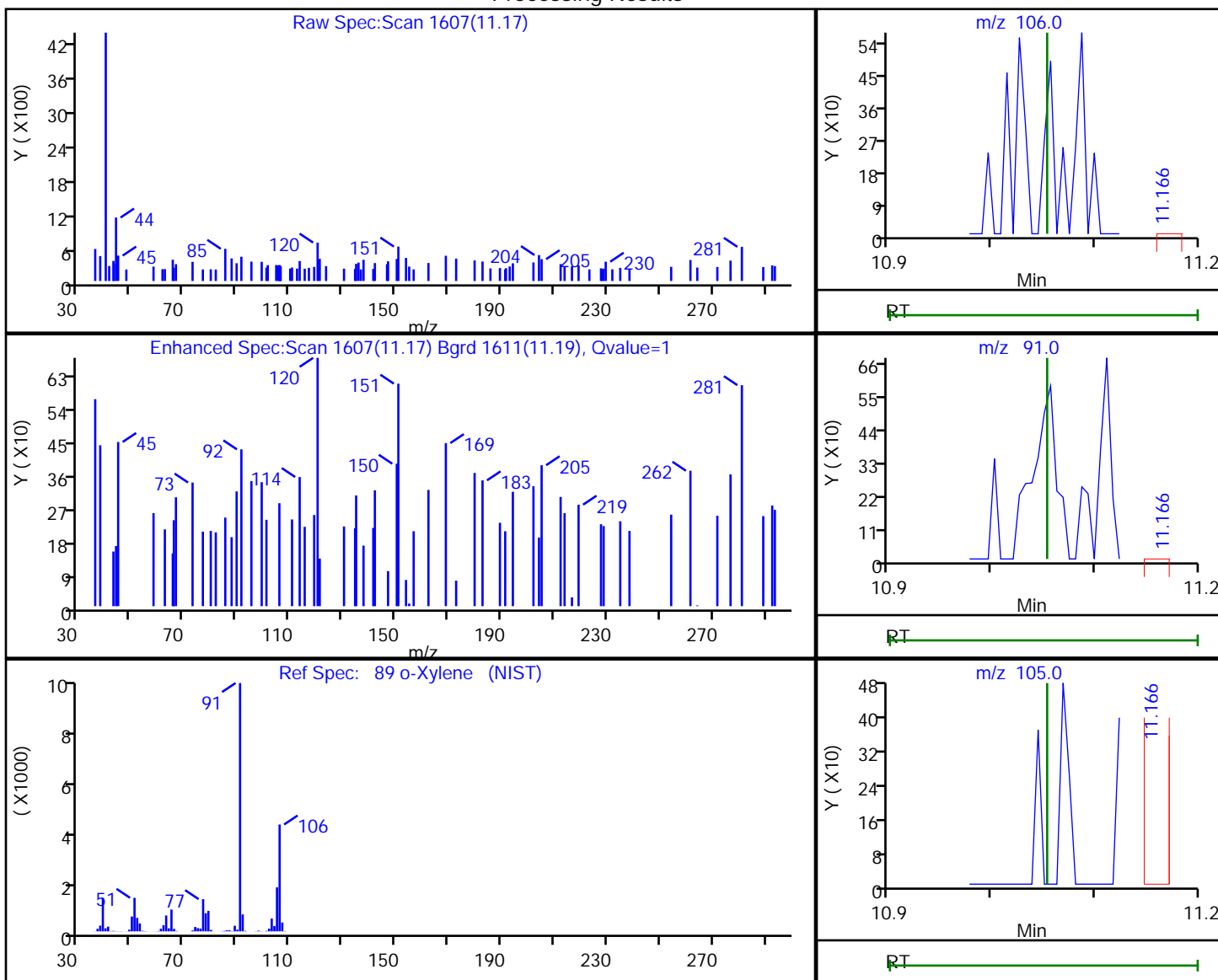
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 Client ID: HD-COD-SW-6-0/1-0  
 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 13  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
 Column: DB-624 (0.18 mm) Detector: MS SCAN

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

Processing Results



RT	Mass	Response	Amount
11.17	106.00	367	0.068016
11.17	91.00	280	
11.17	105.00	338	

Reviewer: bowieh, 28-Jan-2020 08:57:15

Audit Action: Marked Compound Undetected

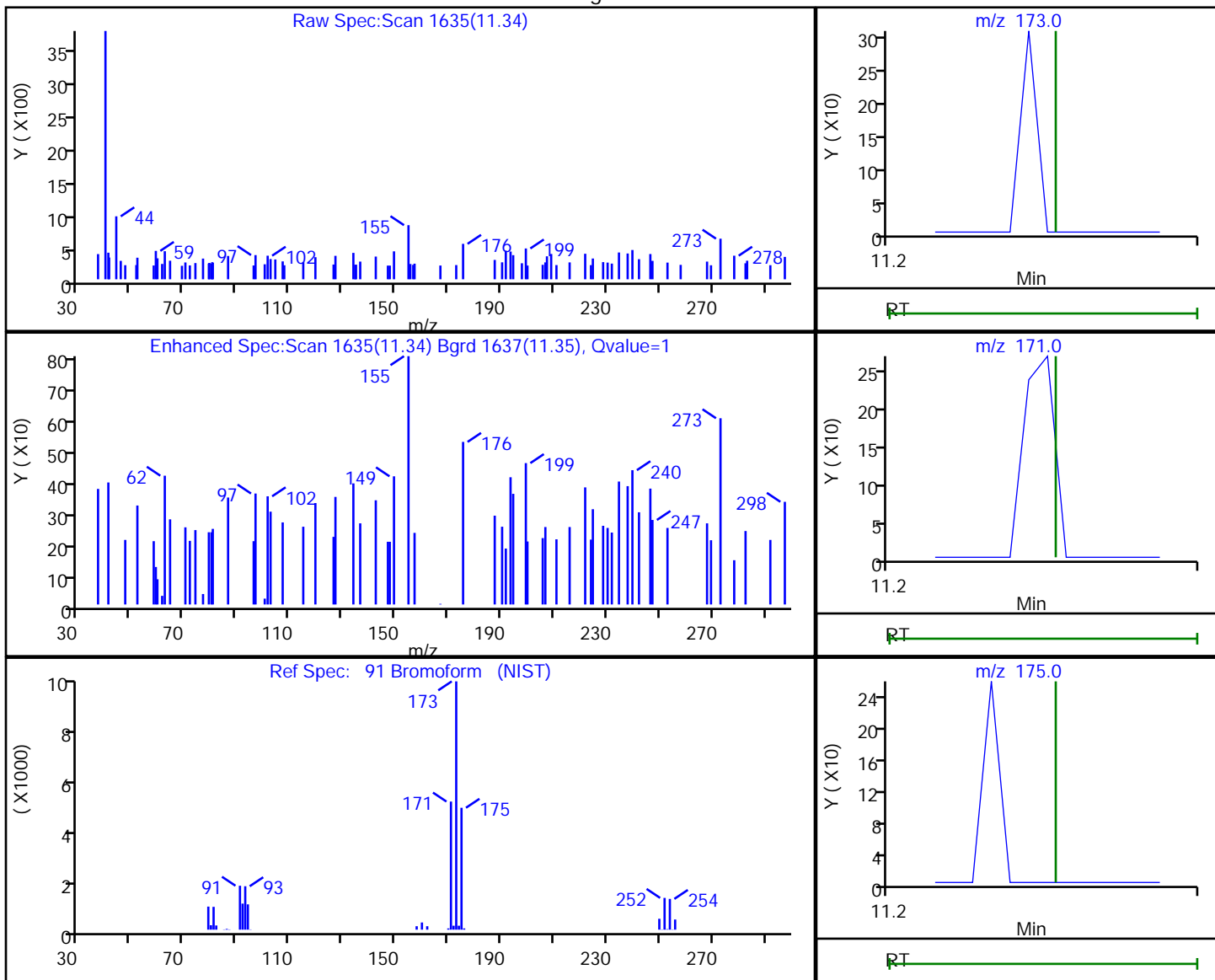
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 Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 13  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
 Column: DB-624 (0.18 mm) Detector: MS SCAN

91 Bromoform, CAS: 75-25-2

Processing Results



RT	Mass	Response	Amount
11.34	173.00	77	0.072891
11.33	171.00	304	
11.34	175.00	439	

Reviewer: bowieh, 28-Jan-2020 08:57:16

Audit Action: Marked Compound Undetected

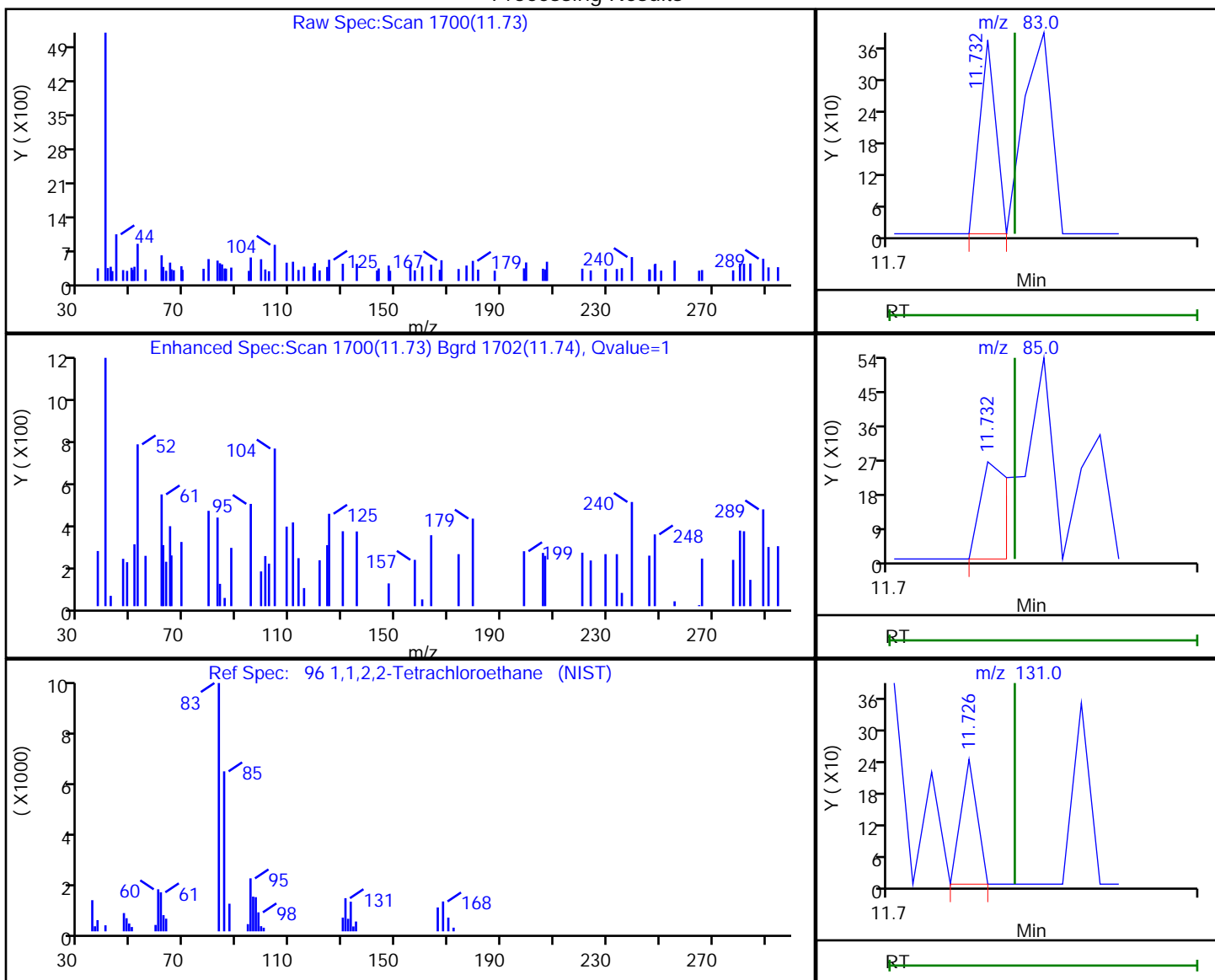
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Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012513.D  
 Injection Date: 25-Jan-2020 16:10:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-6 Lab Sample ID: 180-101459-6  
 Client ID: HD-COD-SW-6-0/1-0  
 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
11.73	83.00	134	0.055720
11.73	85.00	173	
11.73	131.00	87	

Reviewer: bowieh, 28-Jan-2020 08:57:18

Audit Action: Marked Compound Undetected

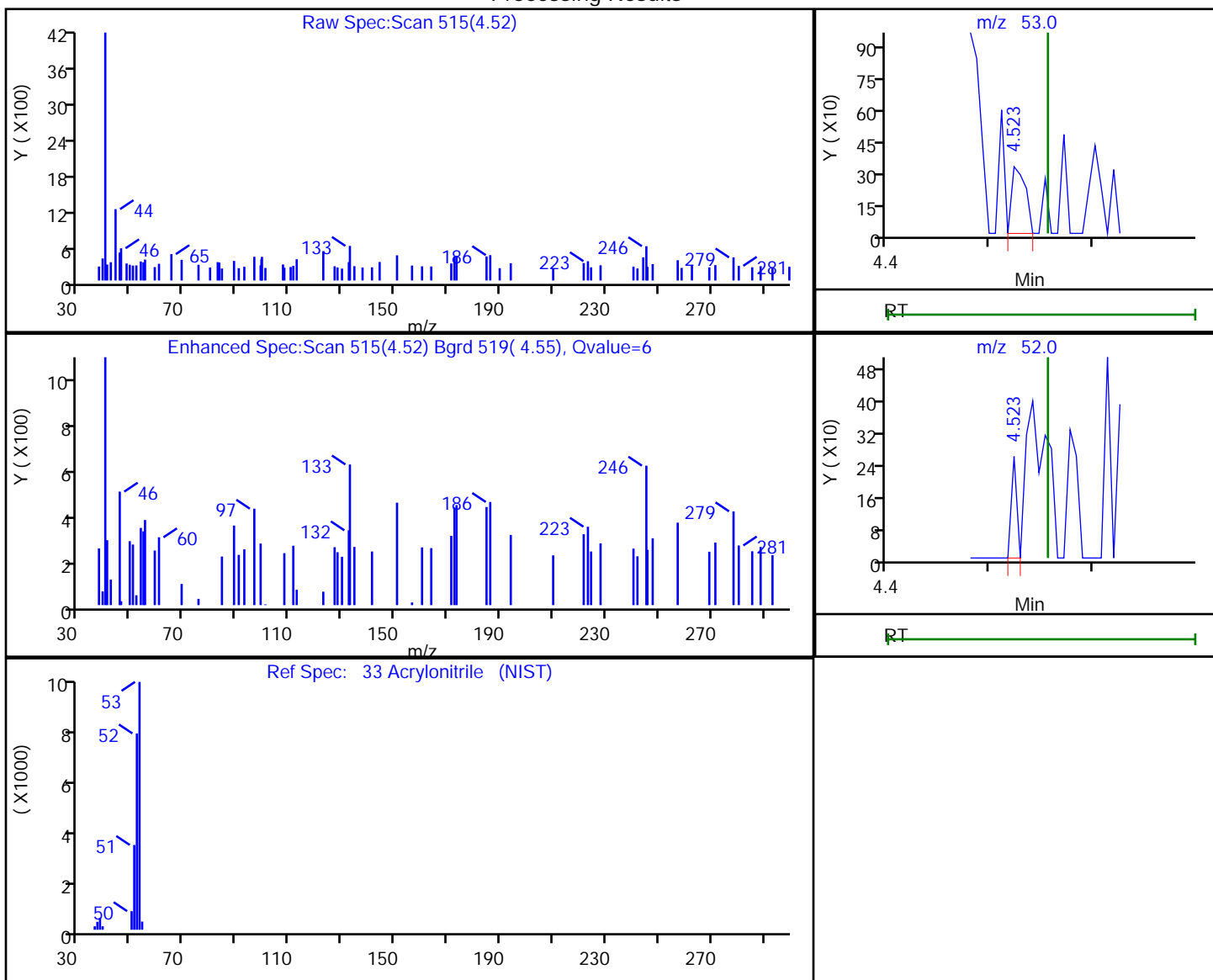
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012513.D  
 Injection Date: 25-Jan-2020 16:10:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-6 Lab Sample ID: 180-101459-6  
 Client ID: HD-COD-SW-6-0/1-0  
 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
4.52	53.00	299	0.317741
4.52	52.00	93	

Reviewer: bowieh, 28-Jan-2020 08:56:43

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.: 180-101459-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: HD-COD-SW-26-0/1-0 Lab Sample ID: 180-101459-7  
 Matrix: Water Lab File ID: 6012514.D  
 Analysis Method: EPA 8260C Date Collected: 01/23/2020 12:35  
 Sample wt/vol: 5 (mL) Date Analyzed: 01/25/2020 16:38  
 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.: 304996 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	ND	^c	1.0	0.88
74-83-9	Bromomethane	ND	^c	1.0	0.89
75-00-3	Chloroethane	ND	^c	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	4.0		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.: 180-101459-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: HD-COD-SW-26-0/1-0 Lab Sample ID: 180-101459-7  
 Matrix: Water Lab File ID: 6012514.D  
 Analysis Method: EPA 8260C Date Collected: 01/23/2020 12:35  
 Sample wt/vol: 5 (mL) Date Analyzed: 01/25/2020 16:38  
 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.: 304996 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)	109		70-150
2037-26-5	Toluene-d8 (Surr)	93		78-128
460-00-4	4-Bromofluorobenzene (Surr)	80		64-123
1868-53-7	Dibromofluoromethane (Surr)	97		75-147

Eurofins TestAmerica, Pittsburgh  
Target Compound Quantitation Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012514.D  
 Lims ID: 180-101459-B-7  
 Client ID: HD-COD-SW-26-0/1-0  
 Sample Type: Client  
 Inject. Date: 25-Jan-2020 16:38:30 ALS Bottle#: 8 Worklist Smp#: 14  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 180-0030512-014  
 Misc. Info.: 180-101459-b-7  
 Operator ID: 433269 Instrument ID: CHHP6  
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\MSVOA\_LL\_CHHP6.m  
 Limit Group: VOA 8260C\_D ICAL  
 Last Update: 28-Jan-2020 08:59:15 Calib Date: 31-Dec-2019 16:03:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123111.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0301

First Level Reviewer: bowieh

Date: 28-Jan-2020 08:59:15

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.308	4.319	-0.011	87	141561	1000.0	
* 2 Fluorobenzene (IS)	96	7.307	7.306	0.001	99	489289	50.0	
* 3 Chlorobenzene-d5	119	10.415	10.408	0.007	84	119642	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.758	12.757	0.001	92	164070	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.577	6.582	-0.005	95	106685	48.4	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.954	6.953	0.001	94	125478	54.7	
\$ 7 Toluene-d8 (Surr)	98	8.961	8.954	0.007	93	412767	46.6	
\$ 8 4-Bromofluorobenzene (Surr	95	11.596	11.595	0.001	0	126641	40.0	
12 Chloromethane	50		1.837				ND	U
13 Vinyl chloride	62		1.952				ND	U
15 Bromomethane	94		2.287				ND	U
16 Chloroethane	64		2.421				ND	U
22 1,1-Dichloroethene	96	3.371	3.370	0.001	1	2174	0.9279	
24 Acetone	43	3.499	3.473	0.026	33	5190	4.35	M
26 Carbon disulfide	76		3.662				ND	U
31 Methylene Chloride	84		4.155				ND	
33 Acrylonitrile	53		4.556				ND	U
34 trans-1,2-Dichloroethene	96		4.574				ND	U
35 Methyl tert-butyl ether	73		4.611				ND	U
37 1,1-Dichloroethane	63		5.219				ND	
43 cis-1,2-Dichloroethene	96		5.967				ND	U
44 2-Butanone (MEK)	43		5.980				ND	U
48 Chlorobromomethane	128		6.247				ND	U
50 Chloroform	83		6.393				ND	
51 1,1,1-Trichloroethane	97		6.558				ND	U
53 Carbon tetrachloride	117		6.722				ND	U
56 Benzene	78		6.959				ND	U
57 1,2-Dichloroethane	62		7.038				ND	U
61 Trichloroethene	130	7.702	7.689	0.013	58	4697	1.50	
64 1,2-Dichloropropane	63		7.963				ND	U
68 Dichlorobromomethane	83		8.249				ND	U

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
71 cis-1,3-Dichloropropene	75		8.699				ND	U
72 4-Methyl-2-pentanone (MIBK)	43		8.857				ND	U
73 Toluene	91	9.022	9.021	0.001	51	2445	0.2169	
74 trans-1,3-Dichloropropene	75		9.277				ND	U
76 1,1,2-Trichloroethane	97		9.472				ND	U
77 Tetrachloroethene	164	9.533	9.538	-0.005	95	56354	20.2	
79 2-Hexanone	43		9.691				ND	U
81 Chlorodibromomethane	129		9.843				ND	U
82 Ethylene Dibromide	107		9.952				ND	U
84 Chlorobenzene	112		10.439				ND	U
86 1,1,1,2-Tetrachloroethane	131		10.530				ND	U
87 Ethylbenzene	106		10.542				ND	U
88 m-Xylene & p-Xylene	106		10.670				ND	U
89 o-Xylene	106		11.053				ND	U
90 Styrene	104		11.078				ND	U
91 Bromoform	173		11.254				ND	U
96 1,1,2,2-Tetrachloroethane	83		11.741				ND	U
S 131 Xylenes, Total	106		1.000				ND	

### QC Flag Legend

Review Flags

M - Manually Integrated

U - Marked Undetected

### Reagents:

VOA8260INT\_00103

Amount Added: 2.00

Units: uL

Run Reagent

VOA8260SURR\_00103

Amount Added: 2.00

Units: uL

Run Reagent

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012514.D

Injection Date: 25-Jan-2020 16:38:30

Instrument ID: CHHP6

Operator ID: 433269

Lims ID: 180-101459-B-7

Lab Sample ID: 180-101459-7

Worklist Smp#: 14

Client ID: HD-COD-SW-26-0/1-0

Purge Vol: 5.000 mL

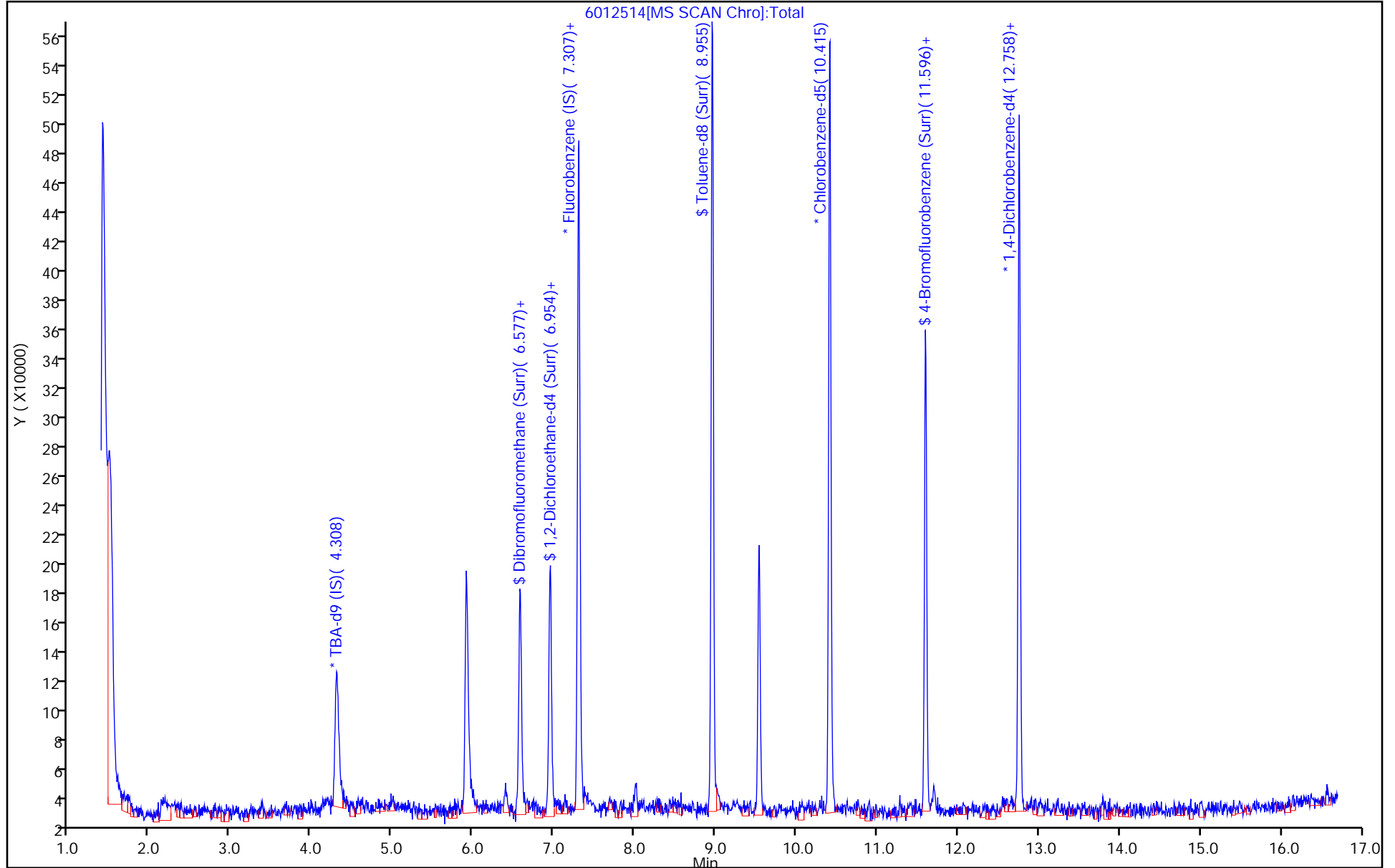
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: MSVOA\_LL\_CHHP6

Limit Group: VOA 8260C\_D ICAL

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Pittsburgh  
Recovery Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012514.D  
 Lims ID: 180-101459-B-7  
 Client ID: HD-COD-SW-26-0/1-0  
 Sample Type: Client  
 Inject. Date: 25-Jan-2020 16:38:30 ALS Bottle#: 8 Worklist Smp#: 14  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 180-0030512-014  
 Misc. Info.: 180-101459-b-7  
 Operator ID: 433269 Instrument ID: CHHP6  
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\MSVOA\_LL\_CHHP6.m  
 Limit Group: VOA 8260C\_D ICAL  
 Last Update: 28-Jan-2020 08:59:15 Calib Date: 31-Dec-2019 16:03:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123111.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0301

First Level Reviewer: bowieh

Date: 28-Jan-2020 08:59:15

Compound	Amount Added	Amount Recovered	% Rec.
\$ 5 Dibromofluoromethane (Surr)	50.0	48.4	96.77
\$ 6 1,2-Dichloroethane-d4 (Surr)	50.0	54.7	109.38
\$ 7 Toluene-d8 (Surr)	50.0	46.6	93.14
\$ 8 4-Bromofluorobenzene (Surr)	50.0	40.0	80.01

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012514.D

Injection Date: 25-Jan-2020 16:38:30

Instrument ID: CHHP6

Lims ID: 180-101459-B-7

Lab Sample ID: 180-101459-7

Client ID: HD-COD-SW-26-0/1-0

Operator ID: 433269

ALS Bottle#: 8 Worklist Smp#: 14

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

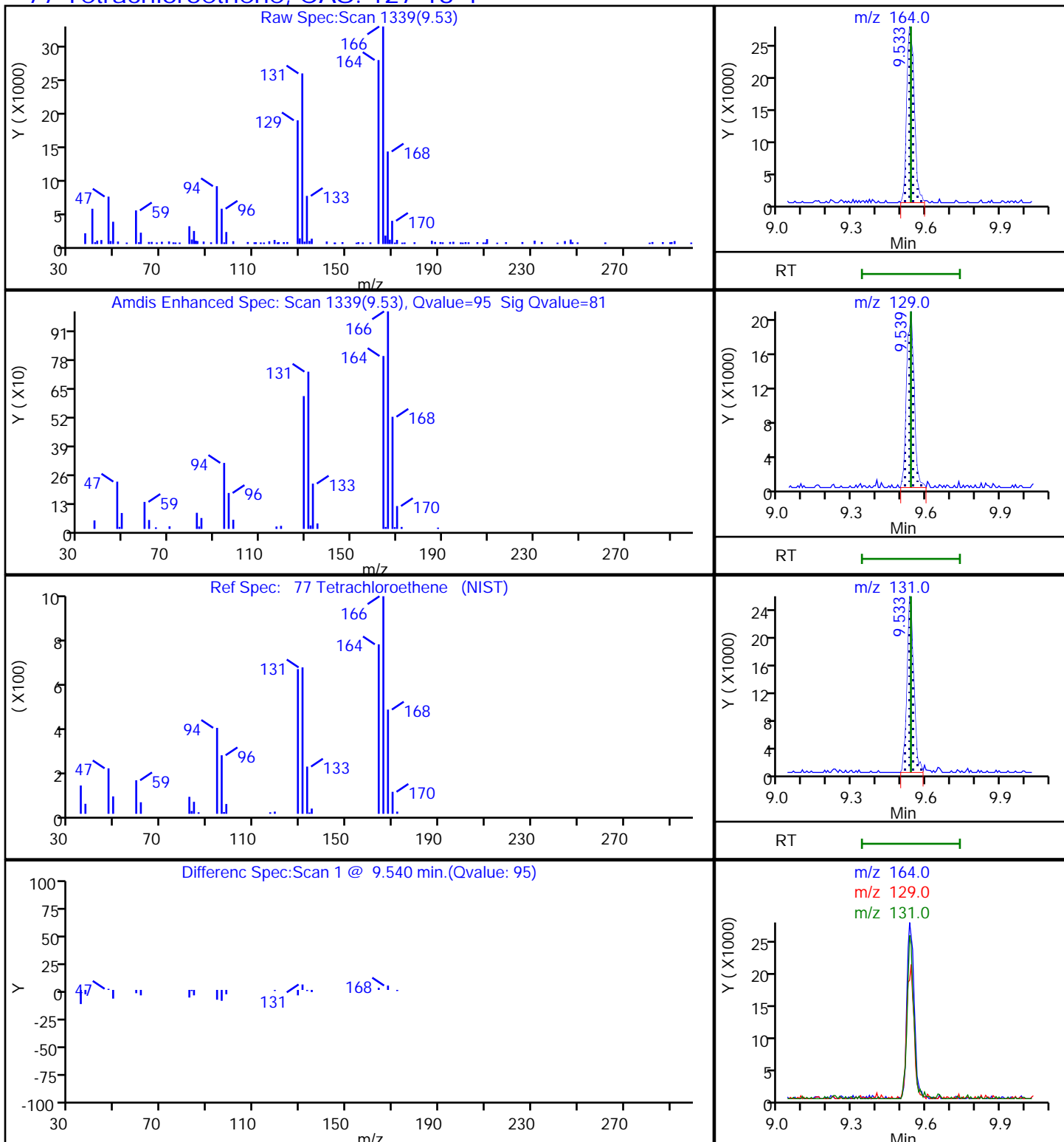
Method: MSVOA\_LL\_CHHP6

Limit Group: VOA 8260C\_D ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

77 Tetrachloroethene, CAS: 127-18-4

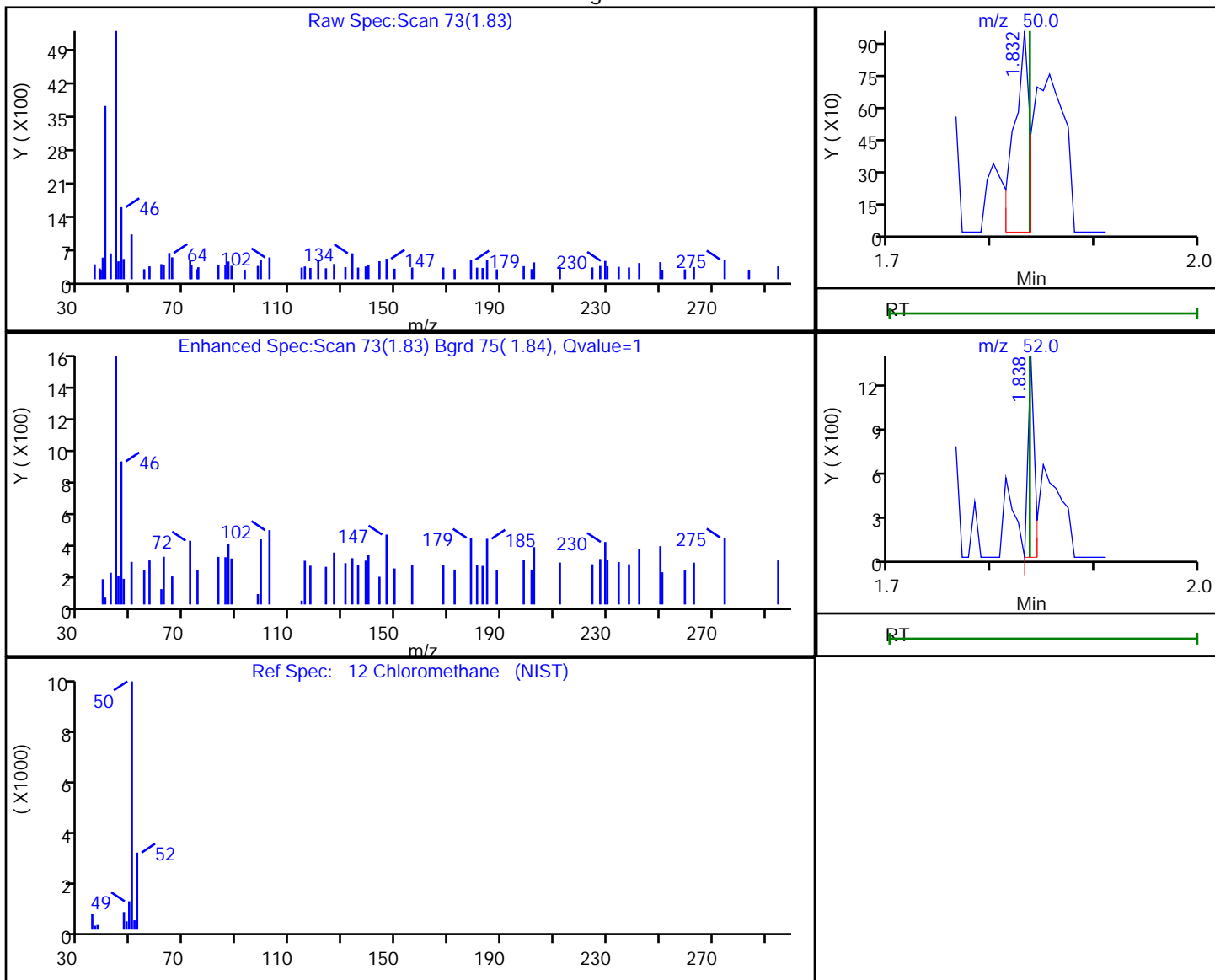


Eurofins TestAmerica, Pittsburgh

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 Injection Date: 25-Jan-2020 16:38:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-7 Lab Sample ID: 180-101459-7  
 Client ID: HD-COD-SW-26-0/1-0  
 Operator ID: 433269 ALS Bottle#: 8 Worklist Smp#: 14  
 Purge Vol: 5.000 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
1.83	50.00	972	0.260679
1.84	52.00	571	

Reviewer: bowieh, 28-Jan-2020 08:57:48

Audit Action: Marked Compound Undetected

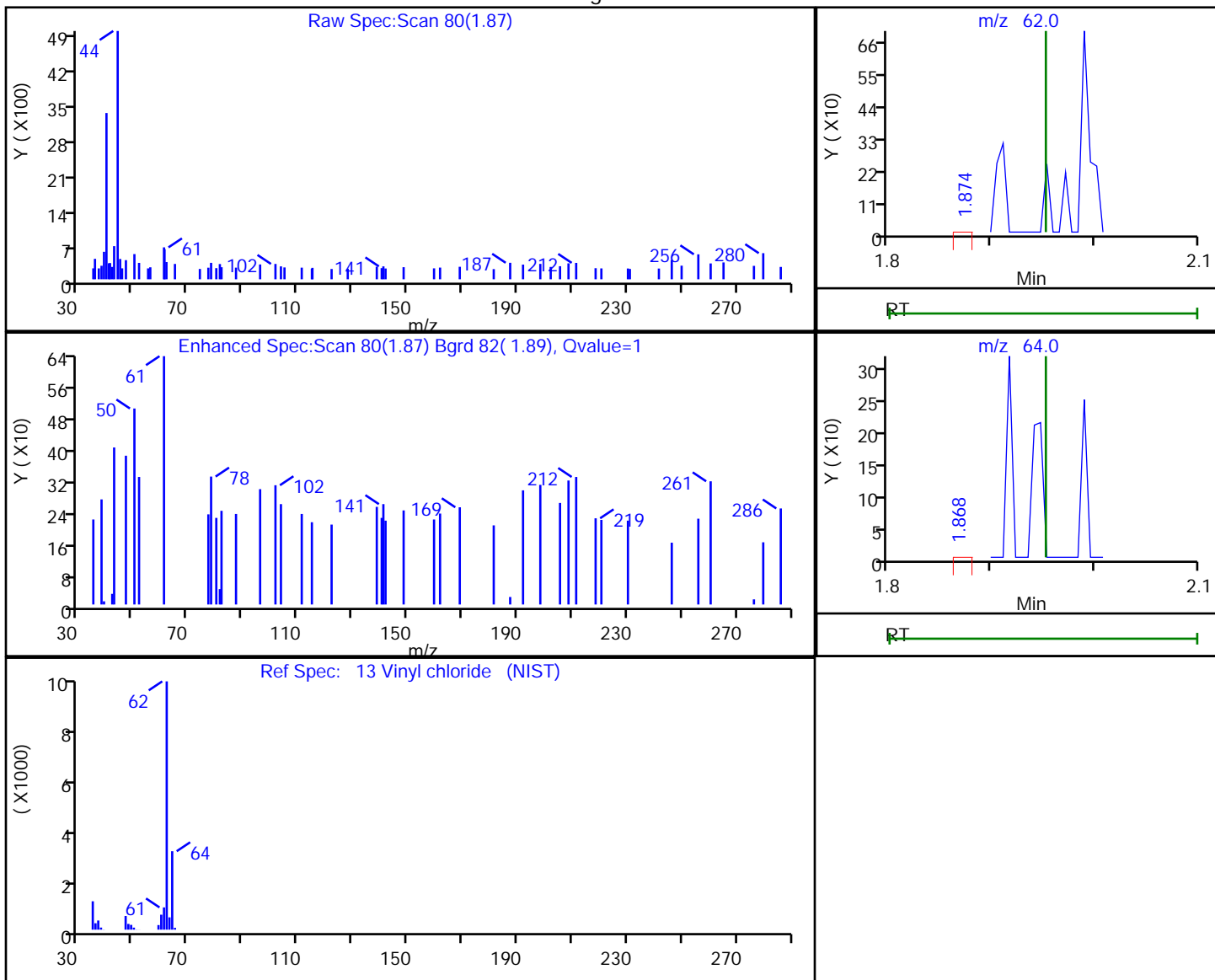
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Injection Date: 25-Jan-2020 16:38:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-7 Lab Sample ID: 180-101459-7  
 Client ID: HD-COD-SW-26-0/1-0  
 Operator ID: 433269 ALS Bottle#: 8 Worklist Smp#: 14  
 Purge Vol: 5.000 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
1.87	62.00	214	0.066693
1.87	64.00	96	

Reviewer: bowieh, 28-Jan-2020 08:57:50

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

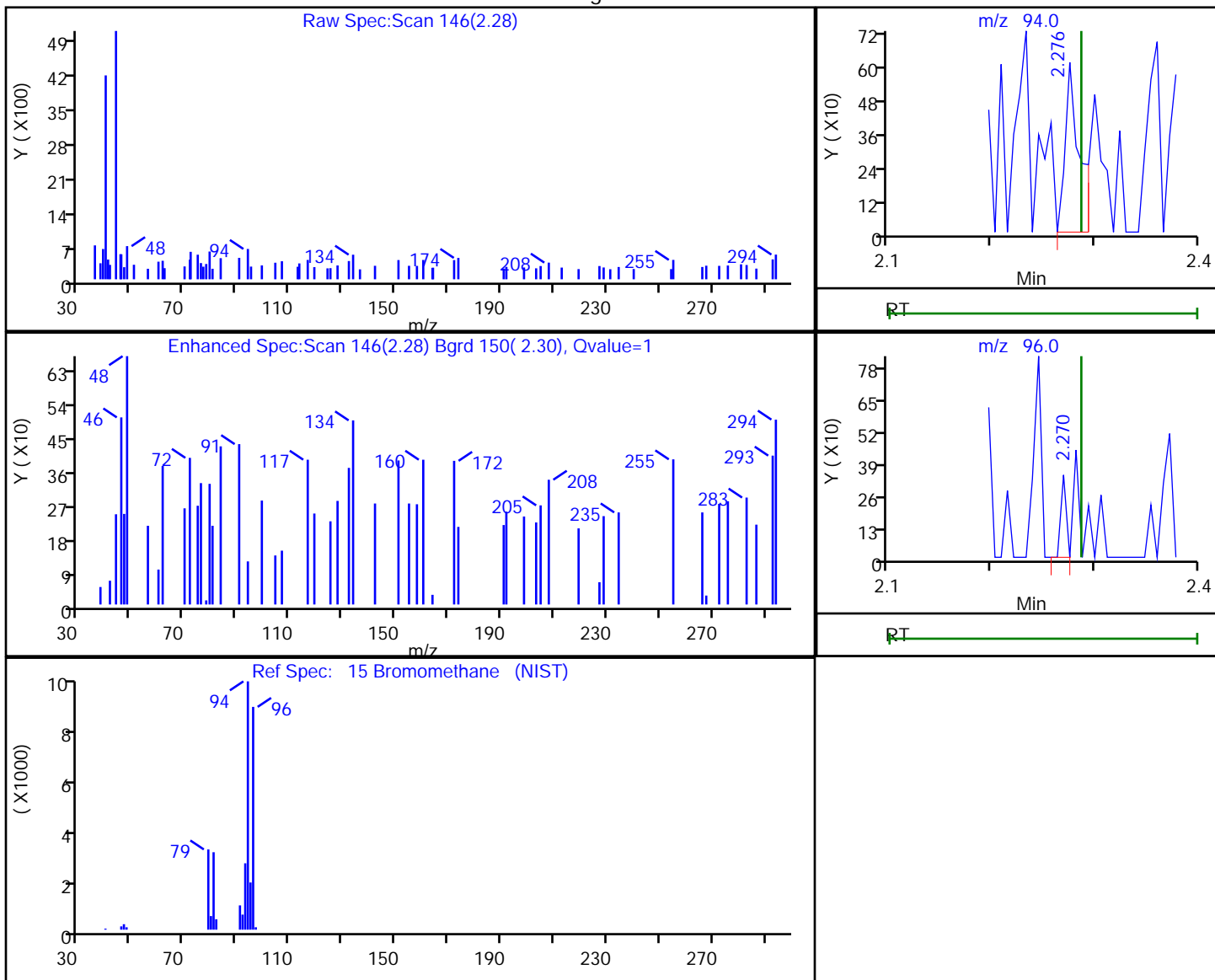


Eurofins TestAmerica, Pittsburgh

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 Injection Date: 25-Jan-2020 16:38:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-7 Lab Sample ID: 180-101459-7  
 Client ID: HD-COD-SW-26-0/1-0  
 Operator ID: 433269 ALS Bottle#: 8 Worklist Smp#: 14  
 Purge Vol: 5.000 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
2.28	94.00	592	0.289181
2.27	96.00	123	

Reviewer: bowieh, 28-Jan-2020 08:57:51

Audit Action: Marked Compound Undetected

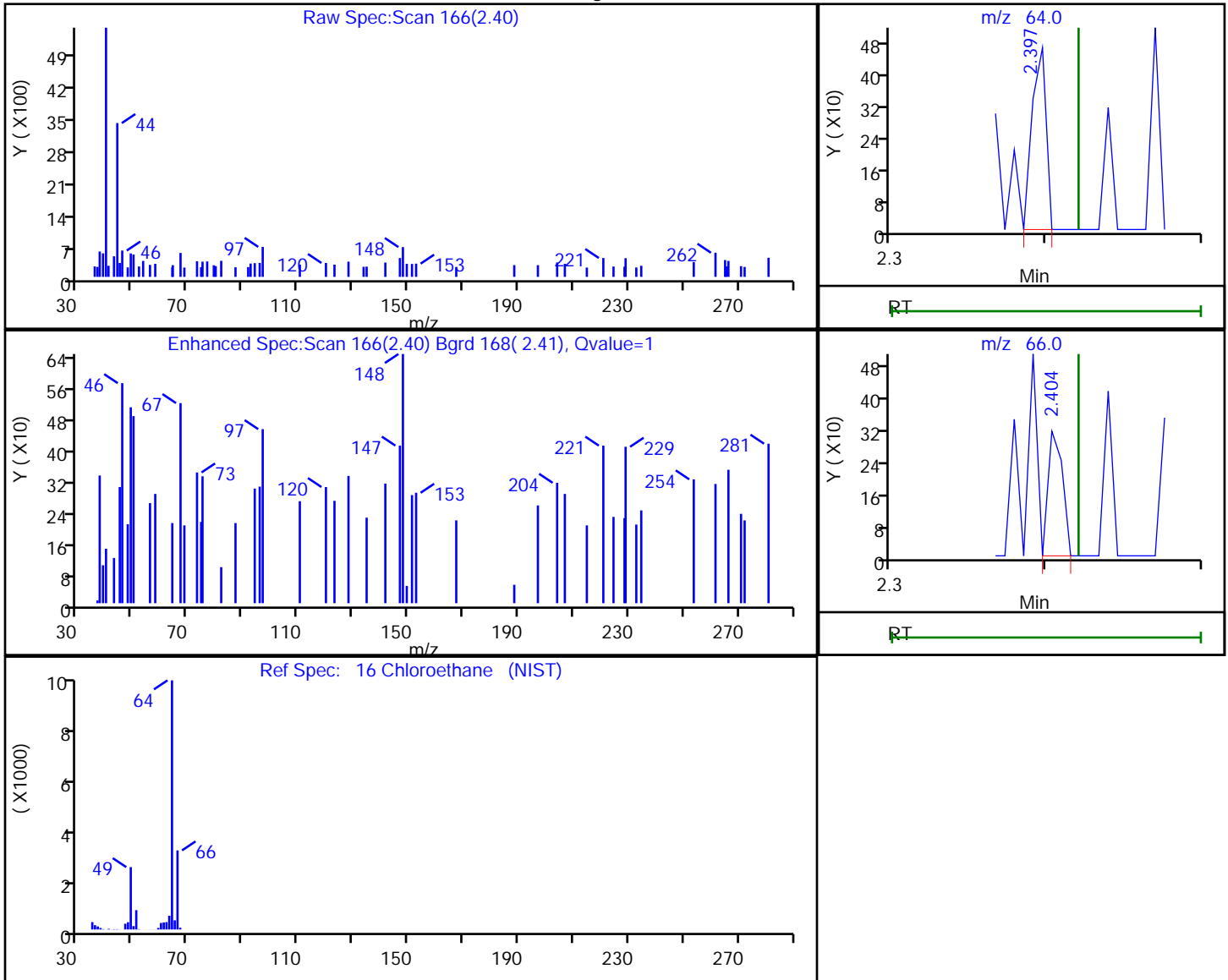
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Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012514.D  
Injection Date: 25-Jan-2020 16:38:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-7 Lab Sample ID: 180-101459-7  
Client ID: HD-COD-SW-26-0/1-0  
Operator ID: 433269 ALS Bottle#: 8 Worklist Smp#: 14  
Purge Vol: 5.000 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	291	0.124525
2.40	66.00	203	

Reviewer: bowieh, 28-Jan-2020 08:57:52

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

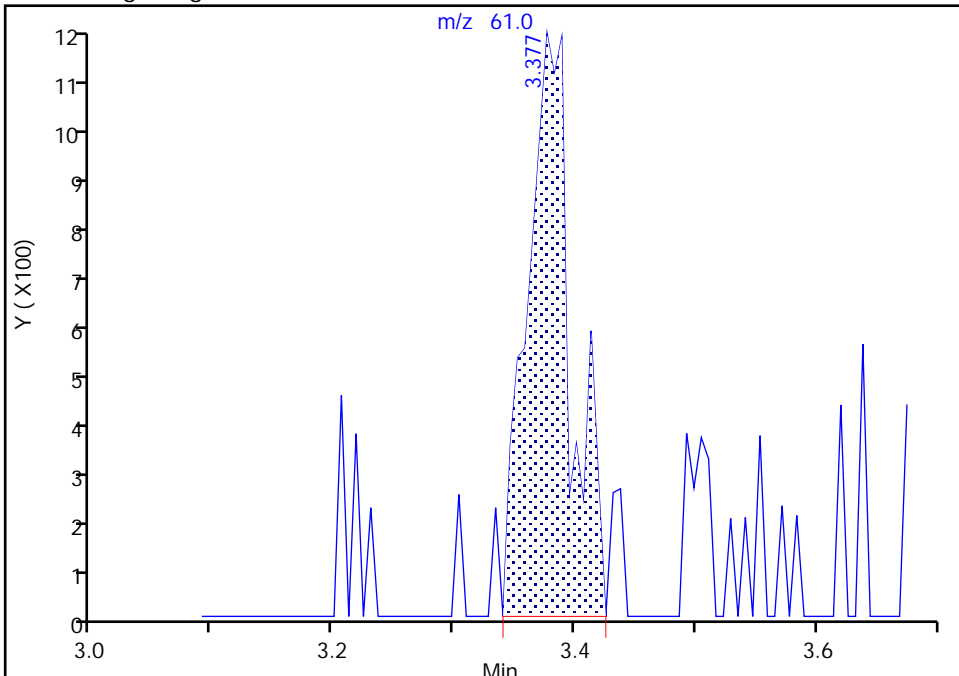
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Injection Date:	25-Jan-2020 16:38:30	Instrument ID:	CHHP6		
Lims ID:	180-101459-B-7	Lab Sample ID:	180-101459-7		
Client ID:	HD-COD-SW-26-0/1-0				
Operator ID:	433269	ALS Bottle#:	8	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	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

Signal: 2

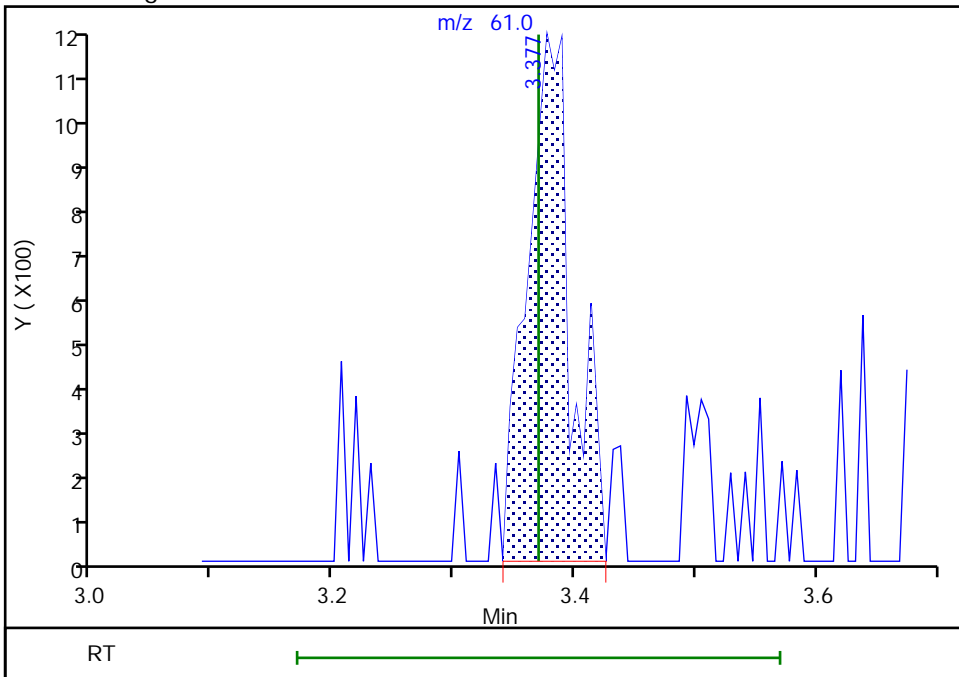
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Area: 3049  
Amount: 0.927863  
Amount Units: ng

Processing Integration Results



RT: 3.38  
Area: 3049  
Amount: 0.927863  
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 28-Jan-2020 08:57:53  
Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID  
Page 383 of 880

Eurofins TestAmerica, Pittsburgh

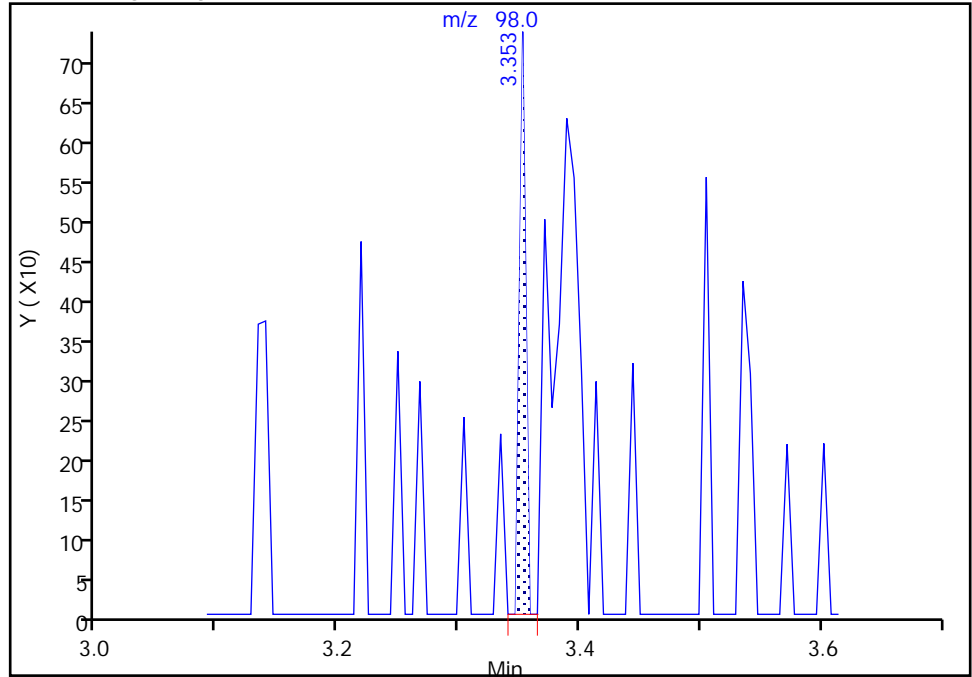
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Injection Date: 25-Jan-2020 16:38:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-7 Lab Sample ID: 180-101459-7  
Client ID: HD-COD-SW-26-0/1-0  
Operator ID: 433269 ALS Bottle#: 8 Worklist Smp#: 14  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: 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

Signal: 3

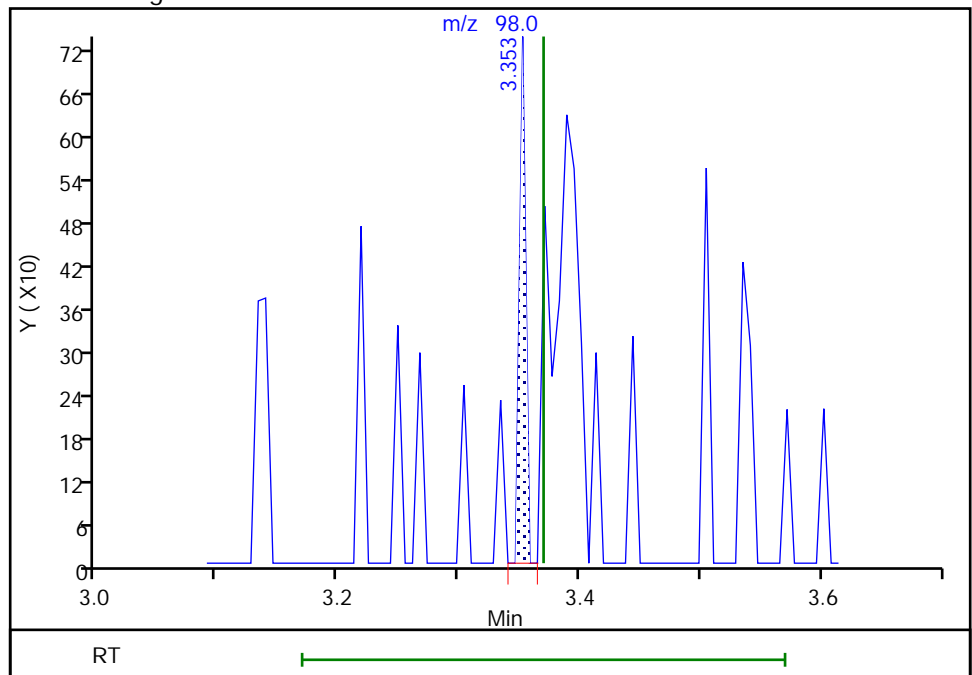
RT: 3.35  
Area: 268  
Amount: 0.927863  
Amount Units: ng

Processing Integration Results



RT: 3.35  
Area: 268  
Amount: 0.927863  
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 28-Jan-2020 08:57:53  
Audit Action: Marked Compound Undetected

Eurofins TestAmerica, Pittsburgh

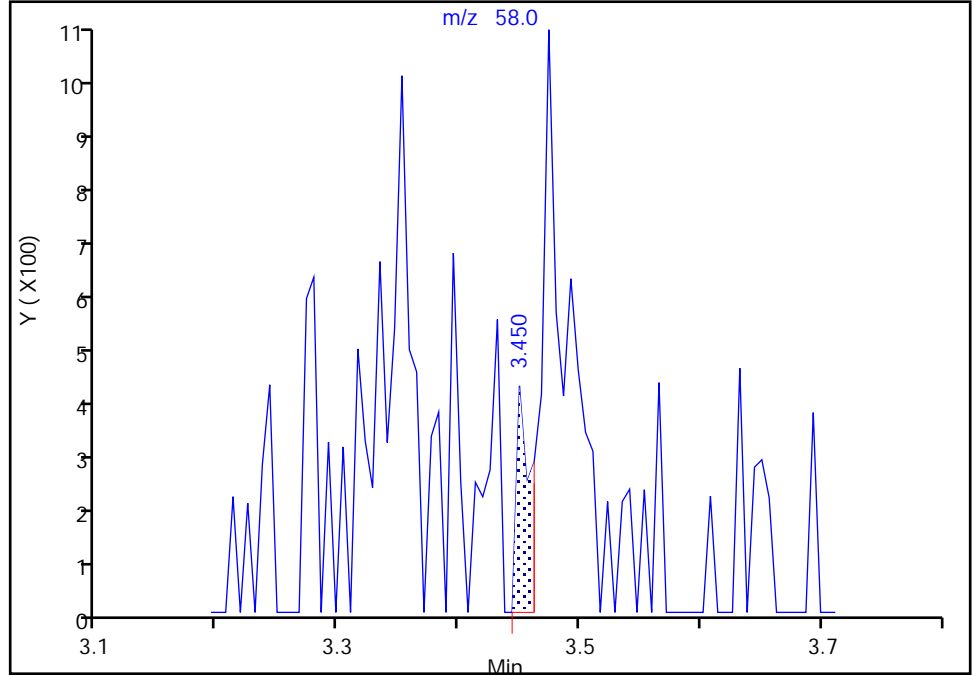
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Injection Date: 25-Jan-2020 16:38:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-7 Lab Sample ID: 180-101459-7  
Client ID: HD-COD-SW-26-0/1-0  
Operator ID: 433269 ALS Bottle#: 8 Worklist Smp#: 14  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: 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: 2

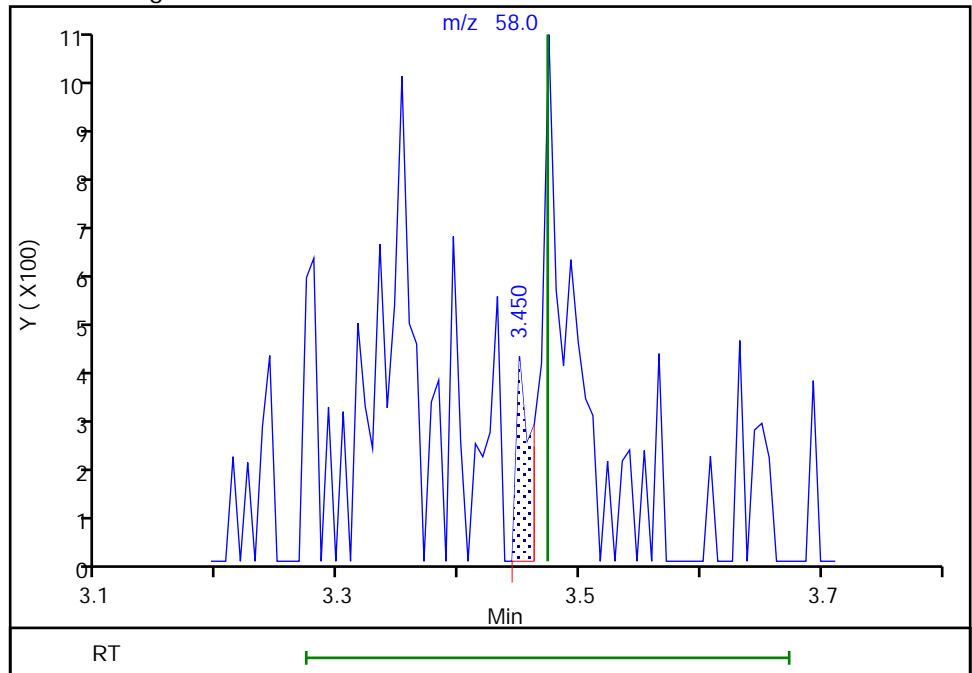
RT: 3.45  
Area: 346  
Amount: 0.726843  
Amount Units: ng

Processing Integration Results



RT: 3.45  
Area: 346  
Amount: 4.345982  
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 28-Jan-2020 08:57:55  
Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

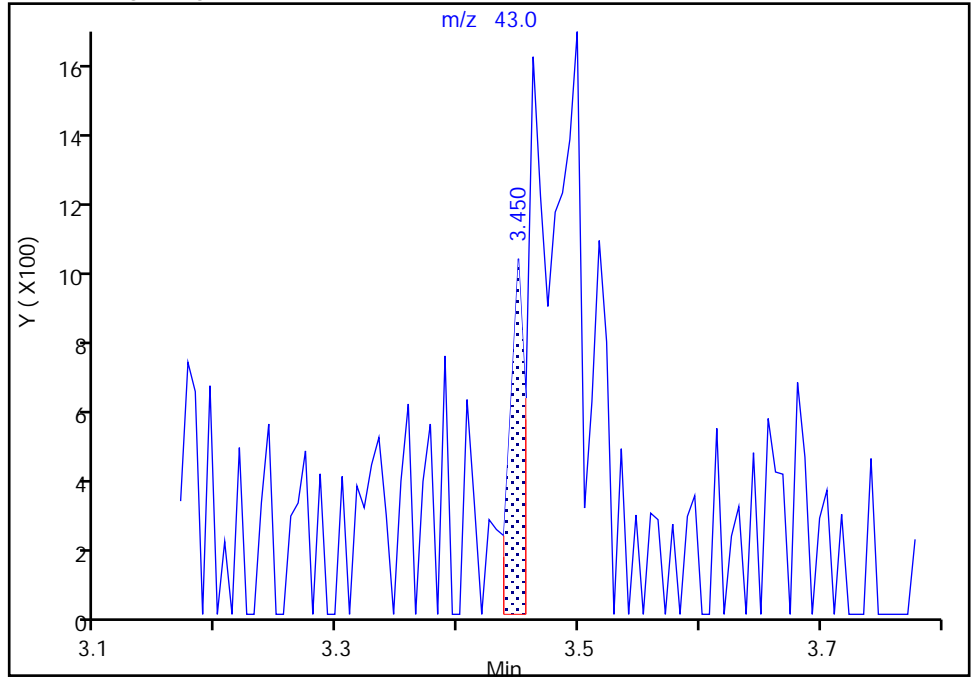
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Injection Date: 25-Jan-2020 16:38:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-7 Lab Sample ID: 180-101459-7  
Client ID: HD-COD-SW-26-0/1-0  
Operator ID: 433269 ALS Bottle#: 8 Worklist Smp#: 14  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: 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

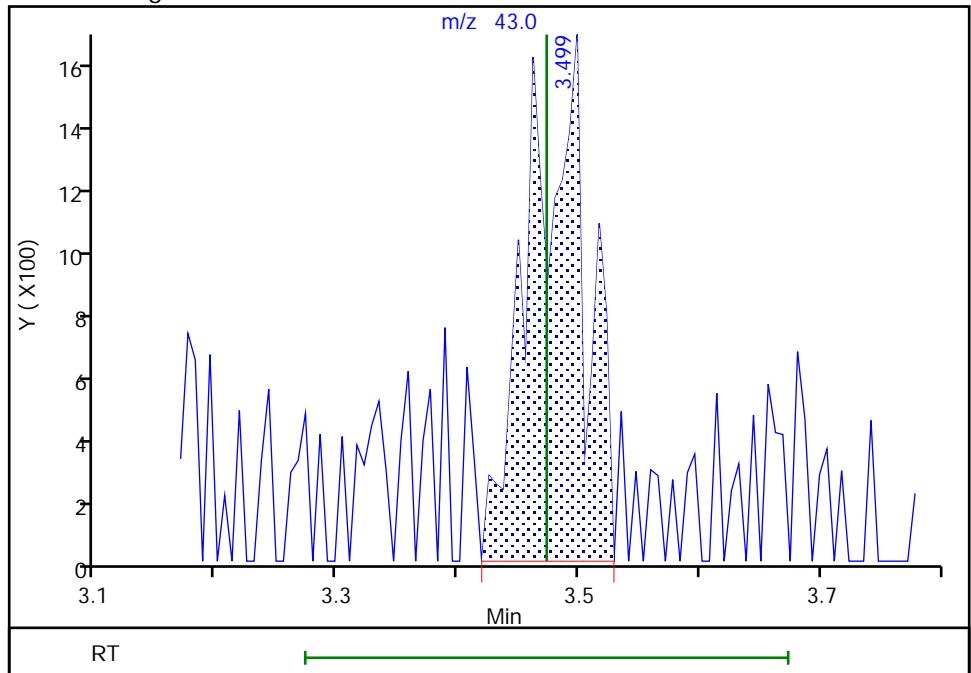
RT: 3.45  
Area: 868  
Amount: 0.726843  
Amount Units: ng

Processing Integration Results



RT: 3.50  
Area: 5190  
Amount: 4.345982  
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 28-Jan-2020 08:58:04

Audit Action: Manually Integrated

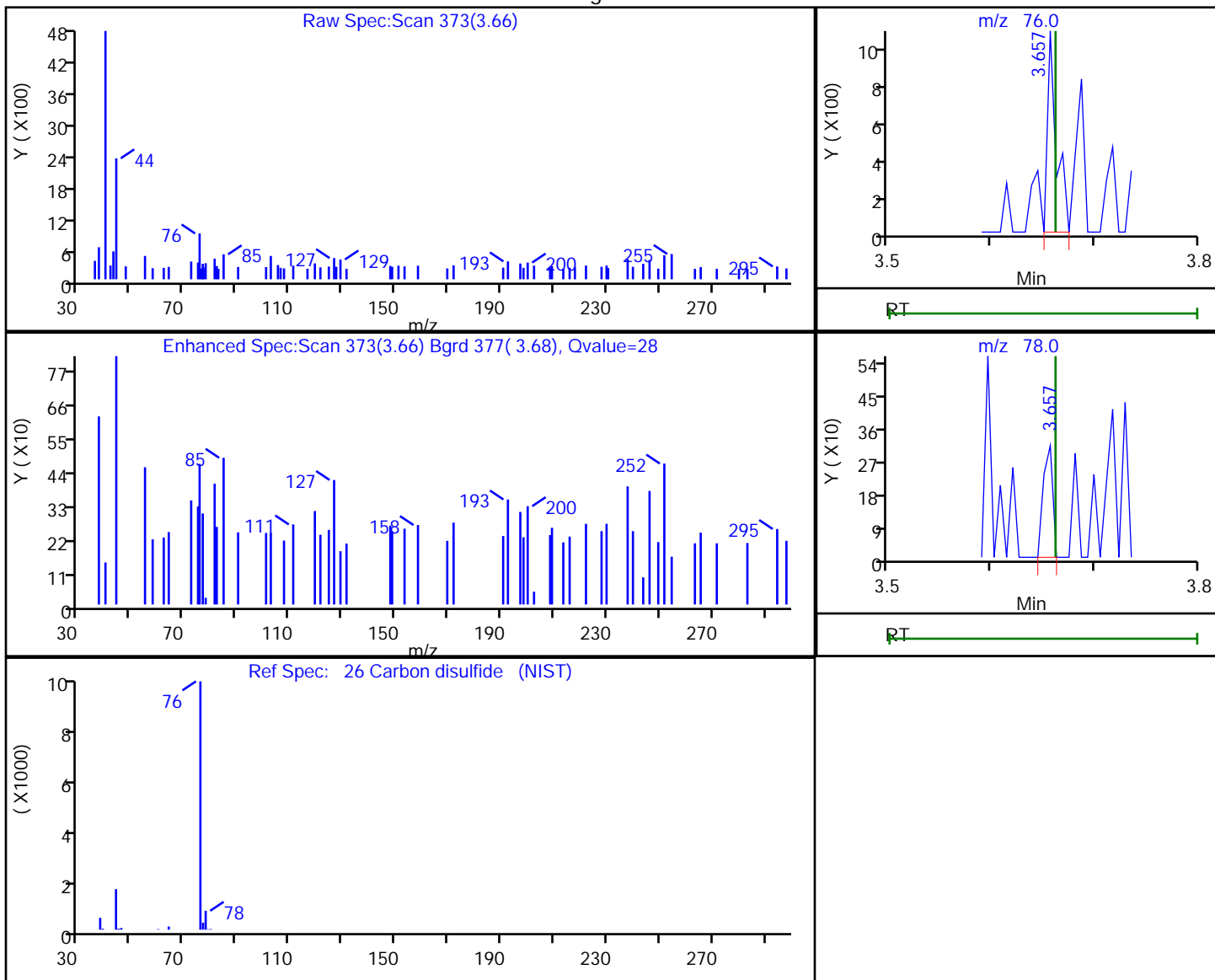
Audit Reason: Poor chromatography

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012514.D  
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 Lims ID: 180-101459-B-7 Lab Sample ID: 180-101459-7  
 Client ID: HD-COD-SW-26-0/1-0  
 Operator ID: 433269 ALS Bottle#: 8 Worklist Smp#: 14  
 Purge Vol: 5.000 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
3.66	76.00	663	0.125785
3.66	78.00	198	

Reviewer: bowieh, 28-Jan-2020 08:58:34

Audit Action: Marked Compound Undetected

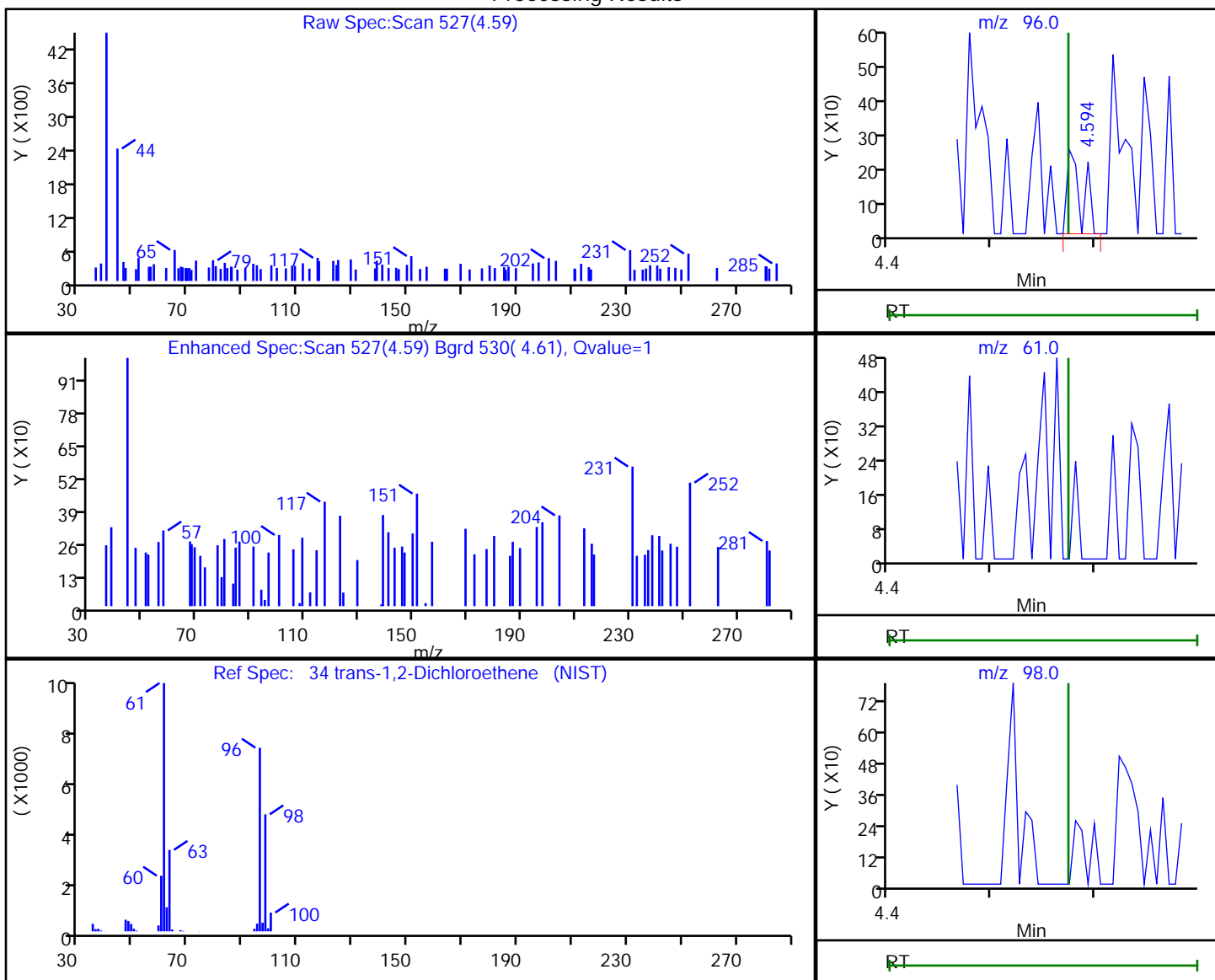
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012514.D  
 Injection Date: 25-Jan-2020 16:38:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-7 Lab Sample ID: 180-101459-7  
 Client ID: HD-COD-SW-26-0/1-0  
 Operator ID: 433269 ALS Bottle#: 8 Worklist Smp#: 14  
 Purge Vol: 5.000 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
4.59	96.00	244	0.091609
4.57	61.00	0	
4.57	98.00	0	

Reviewer: bowieh, 28-Jan-2020 08:58:37

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

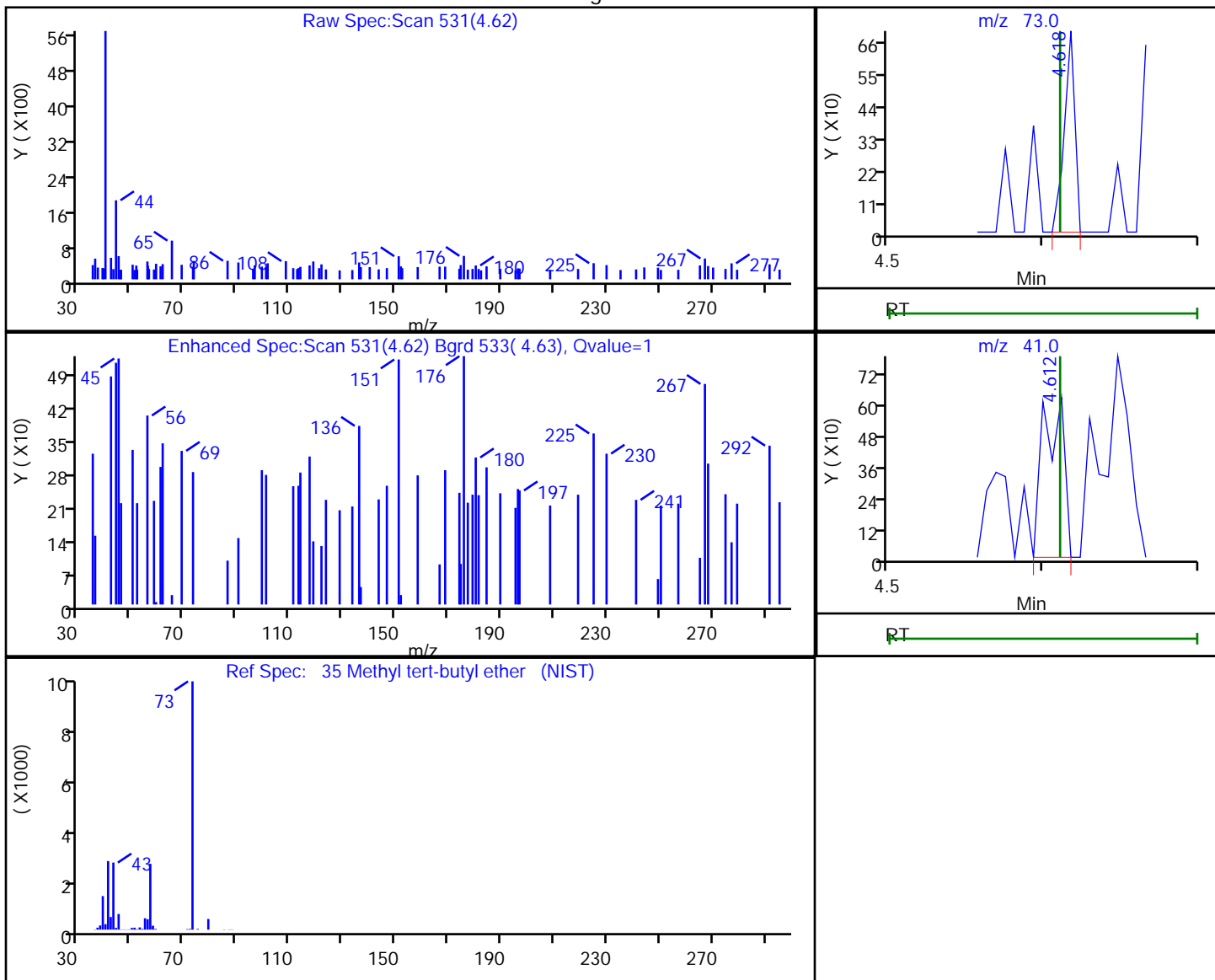


Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012514.D  
Injection Date: 25-Jan-2020 16:38:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-7 Lab Sample ID: 180-101459-7  
Client ID: HD-COD-SW-26-0/1-0  
Operator ID: 433269 ALS Bottle#: 8 Worklist Smp#: 14  
Purge Vol: 5.000 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
4.62	73.00	331	0.064149
4.61	41.00	585	

Reviewer: bowieh, 28-Jan-2020 08:58:38

Audit Action: Marked Compound Undetected

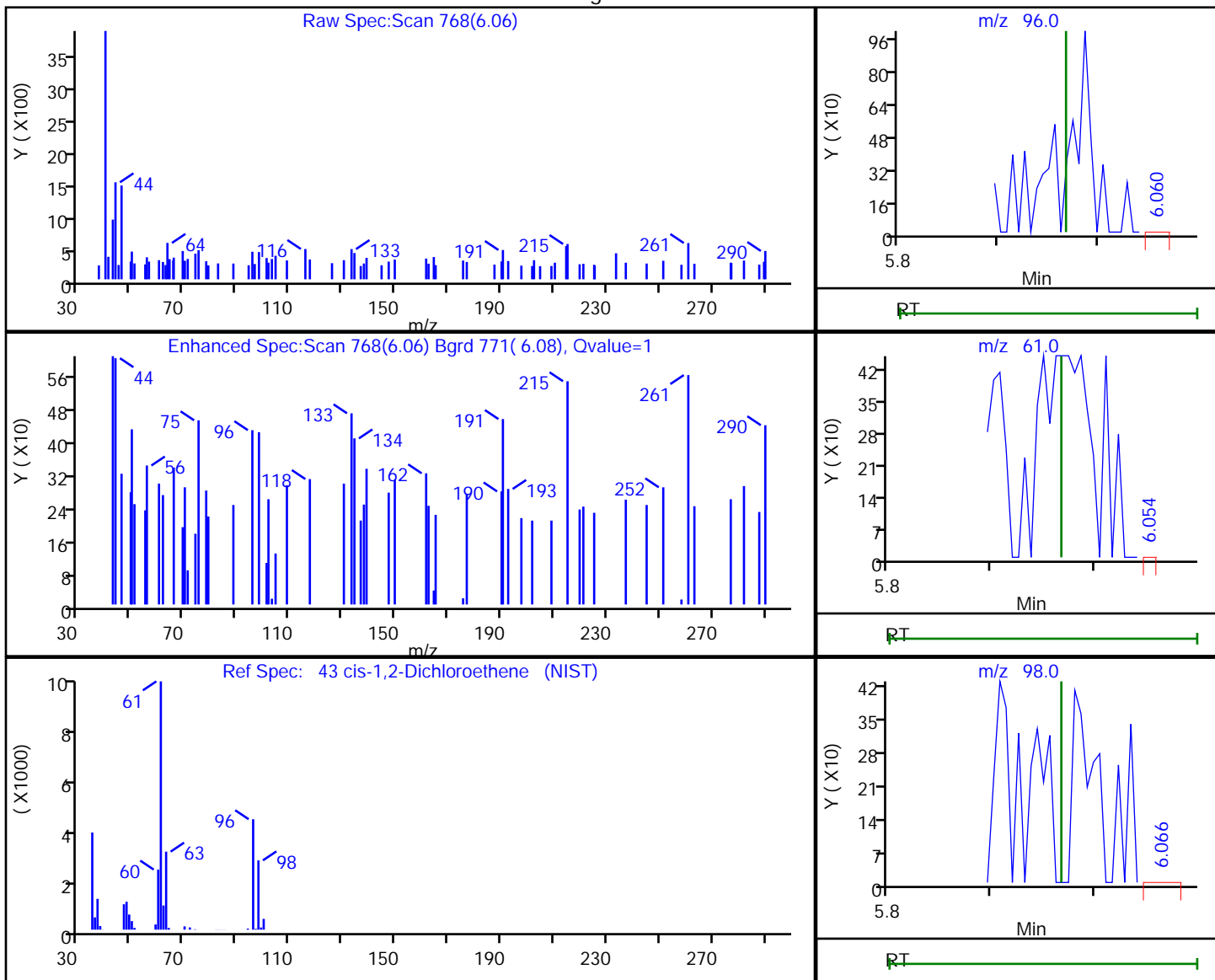
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Lims ID: 180-101459-B-7 Lab Sample ID: 180-101459-7  
 Client ID: HD-COD-SW-26-0/1-0  
 Operator ID: 433269 ALS Bottle#: 8 Worklist Smp#: 14  
 Purge Vol: 5.000 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
6.06	96.00	337	0.117510
6.05	61.00	82	
6.07	98.00	467	

Reviewer: bowieh, 28-Jan-2020 08:58:40

Audit Action: Marked Compound Undetected

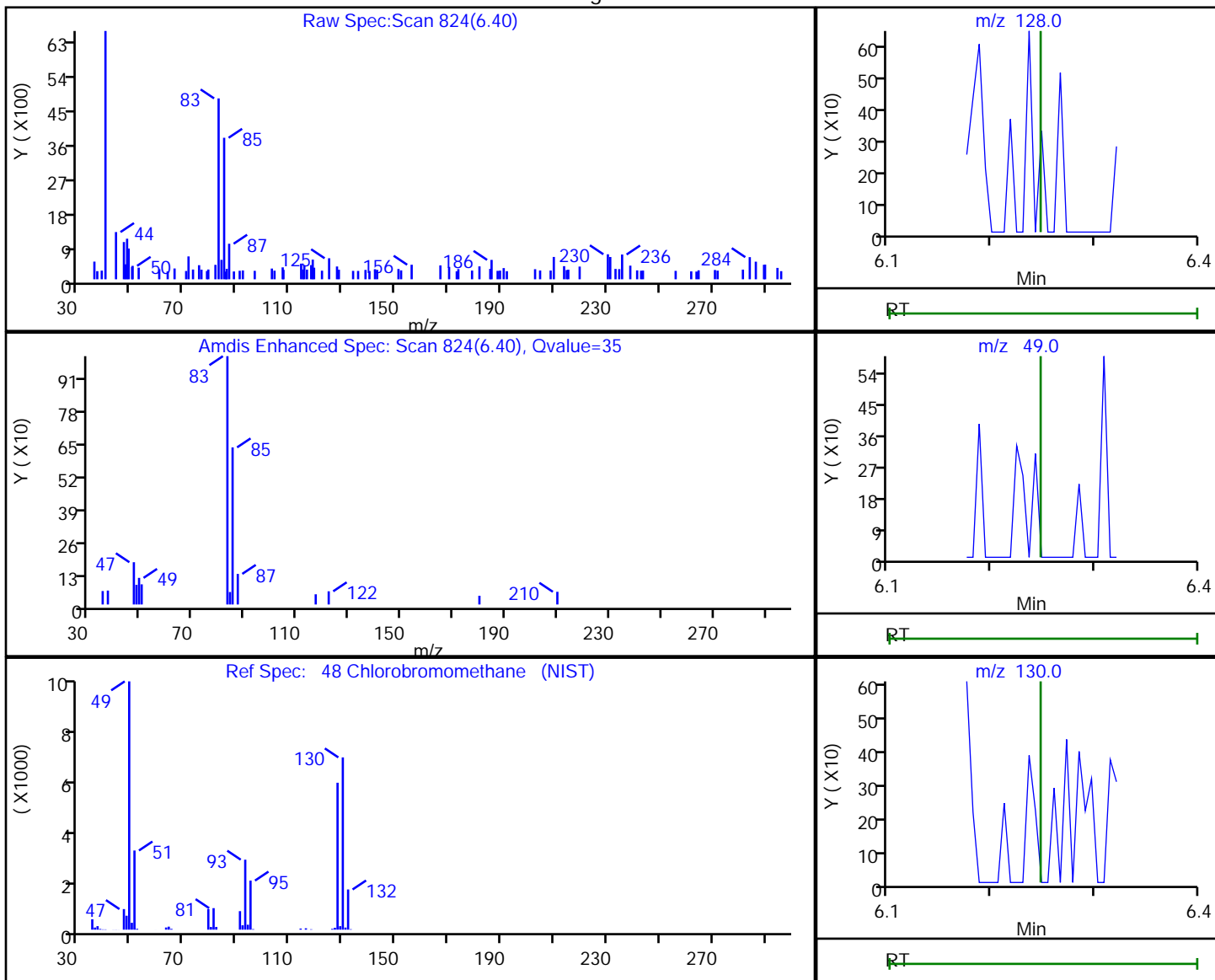
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Lims ID: 180-101459-B-7 Lab Sample ID: 180-101459-7  
 Client ID: HD-COD-SW-26-0/1-0  
 Operator ID: 433269 ALS Bottle#: 8 Worklist Smp#: 14  
 Purge Vol: 5.000 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
6.40	128.00	306	0.207365
6.41	49.00	1317	
6.41	130.00	75	

Reviewer: bowieh, 28-Jan-2020 08:58:43

Audit Action: Marked Compound Undetected

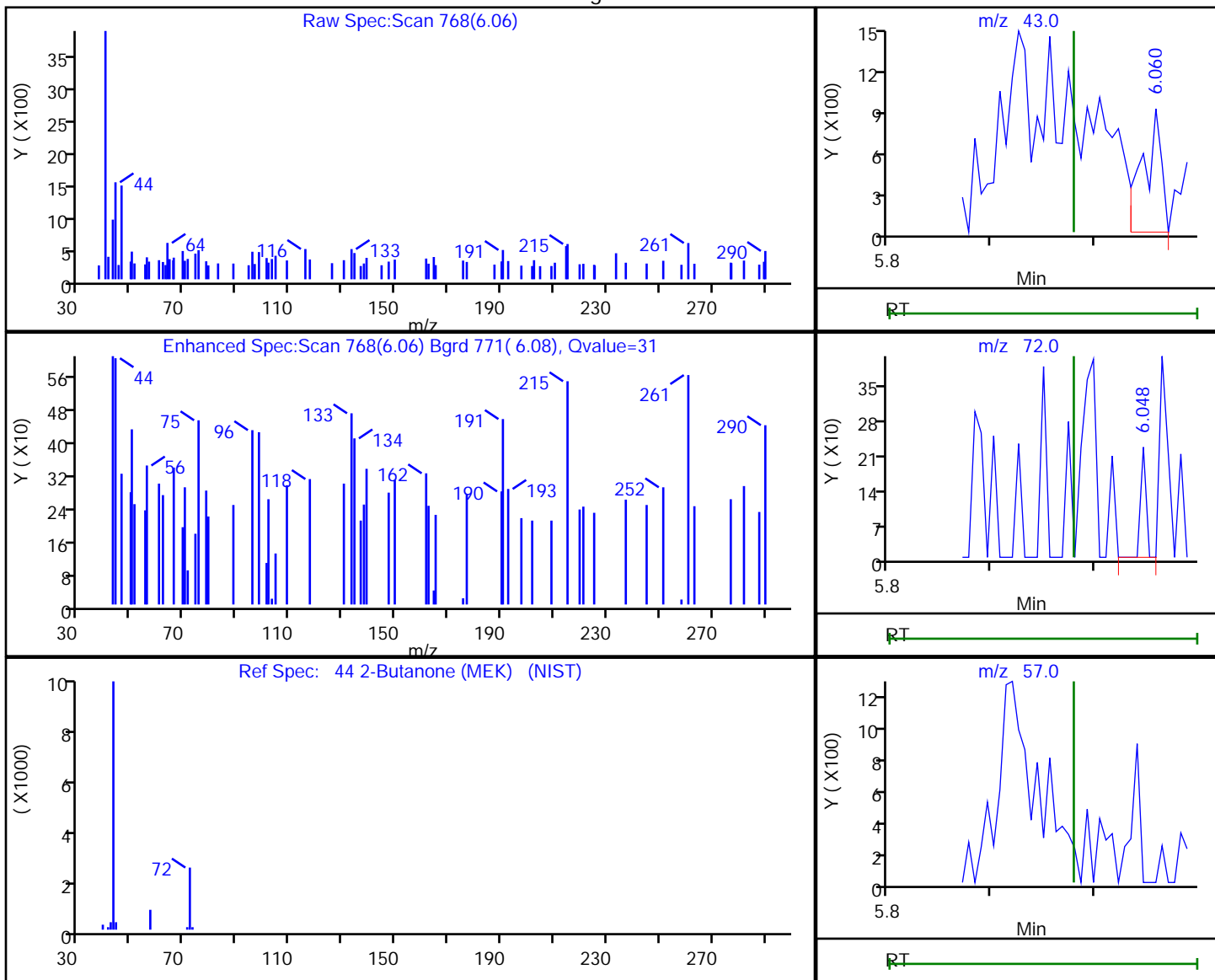
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Injection Date: 25-Jan-2020 16:38:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-7 Lab Sample ID: 180-101459-7  
 Client ID: HD-COD-SW-26-0/1-0  
 Operator ID: 433269 ALS Bottle#: 8 Worklist Smp#: 14  
 Purge Vol: 5.000 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
6.06	43.00	1141	0.759588
6.05	72.00	82	
5.98	57.00	0	

Reviewer: bowieh, 28-Jan-2020 08:58:41

Audit Action: Marked Compound Undetected

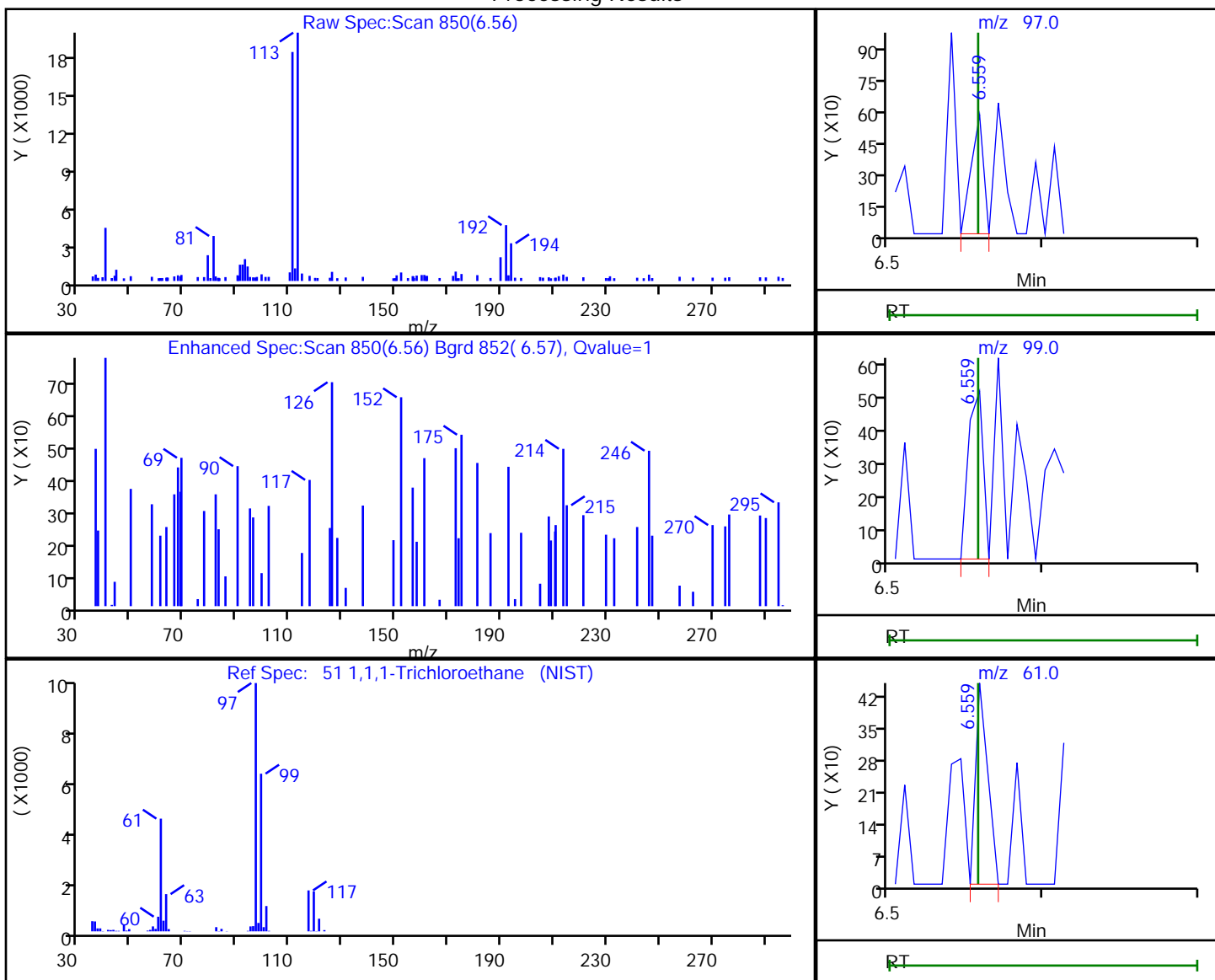
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Lims ID: 180-101459-B-7 Lab Sample ID: 180-101459-7  
 Client ID: HD-COD-SW-26-0/1-0  
 Operator ID: 433269 ALS Bottle#: 8 Worklist Smp#: 14  
 Purge Vol: 5.000 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
6.56	97.00	320	0.096936
6.56	99.00	342	
6.56	61.00	242	

Reviewer: bowieh, 28-Jan-2020 08:58:45

Audit Action: Marked Compound Undetected

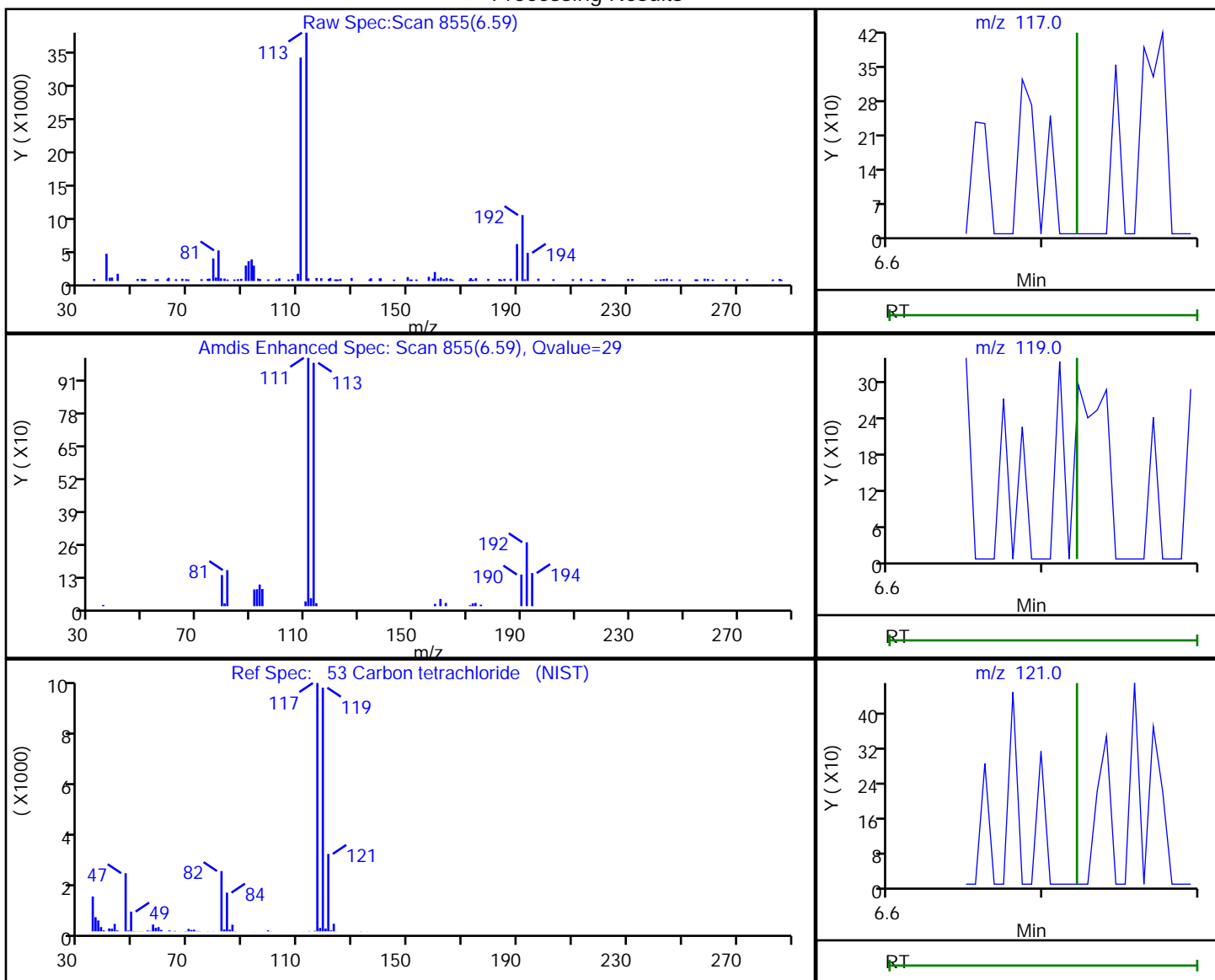
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012514.D  
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 Lims ID: 180-101459-B-7 Lab Sample ID: 180-101459-7  
 Client ID: HD-COD-SW-26-0/1-0  
 Operator ID: 433269 ALS Bottle#: 8 Worklist Smp#: 14  
 Purge Vol: 5.000 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
6.59	117.00	254	0.091489
6.60	119.00	118	
6.59	121.00	200	

Reviewer: bowieh, 28-Jan-2020 08:58:46

Audit Action: Marked Compound Undetected

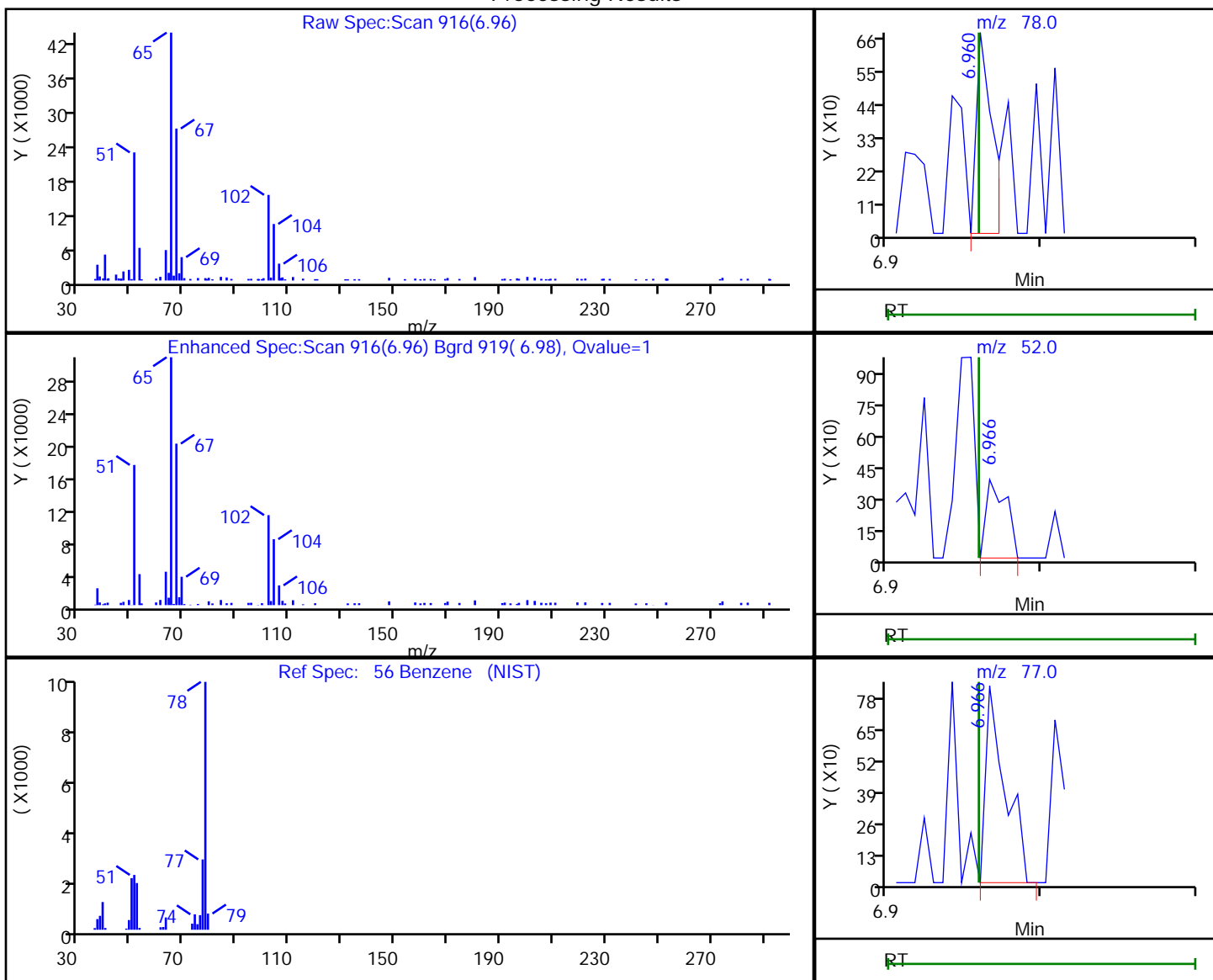
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012514.D  
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 Lims ID: 180-101459-B-7 Lab Sample ID: 180-101459-7  
 Client ID: HD-COD-SW-26-0/1-0  
 Operator ID: 433269 ALS Bottle#: 8 Worklist Smp#: 14  
 Purge Vol: 5.000 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
6.96	78.00	487	0.046054
6.97	52.00	346	
6.97	77.00	725	

Reviewer: bowieh, 28-Jan-2020 08:58:47

Audit Action: Marked Compound Undetected

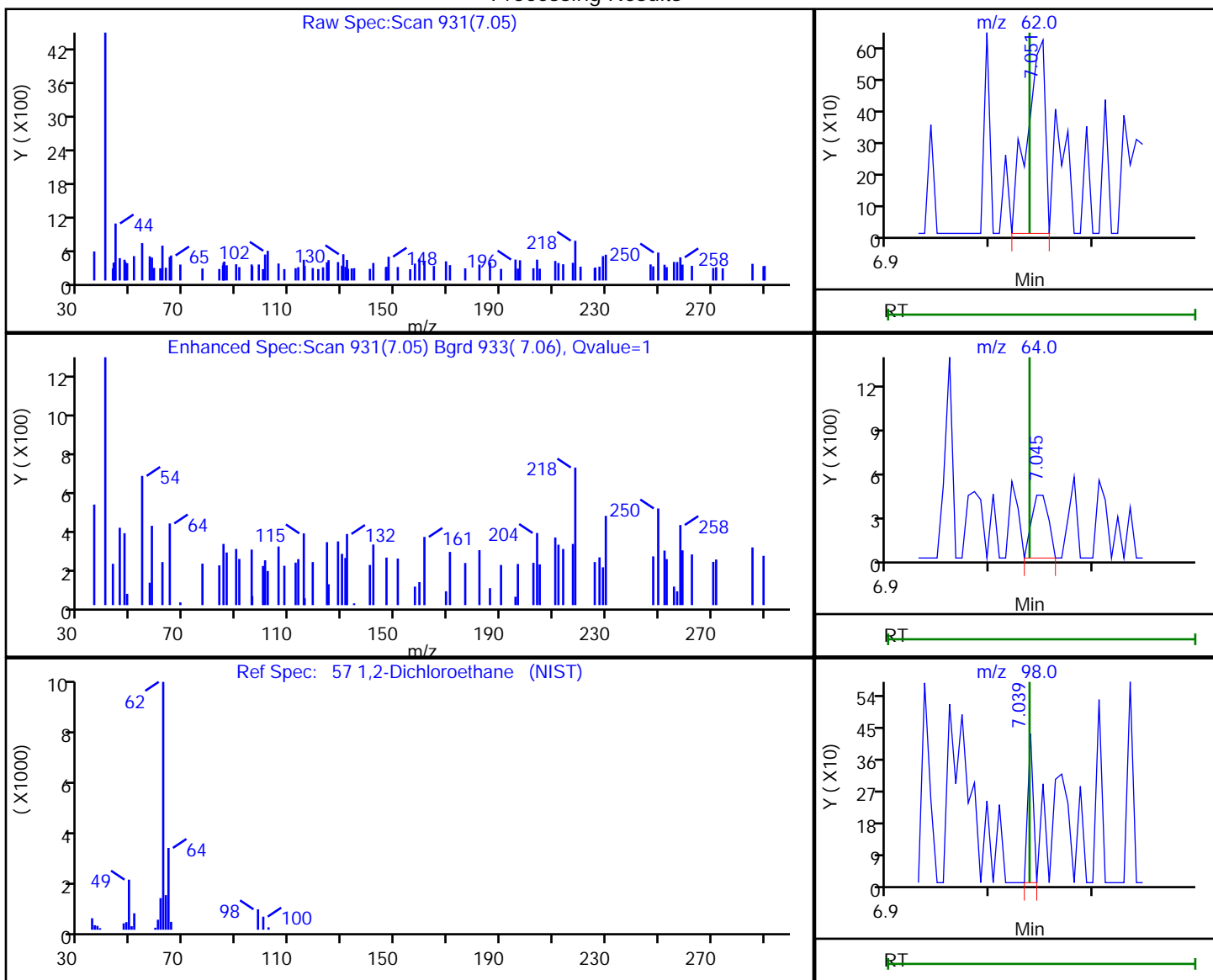
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Injection Date: 25-Jan-2020 16:38:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-7 Lab Sample ID: 180-101459-7  
 Client ID: HD-COD-SW-26-0/1-0  
 Operator ID: 433269 ALS Bottle#: 8 Worklist Smp#: 14  
 Purge Vol: 5.000 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
7.05	62.00	760	0.260948
7.05	64.00	479	
7.04	98.00	156	

Reviewer: bowieh, 28-Jan-2020 08:58:48

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

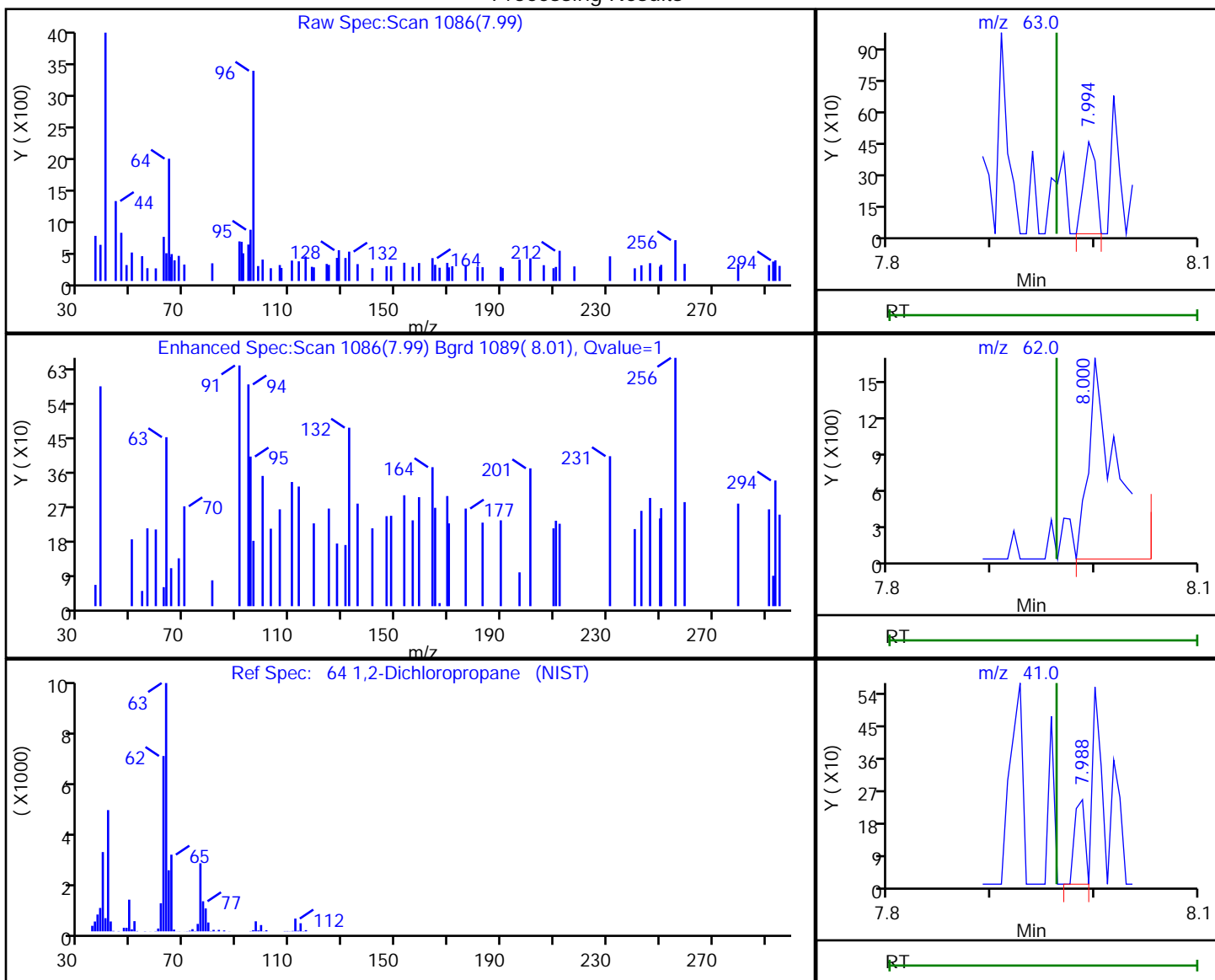


Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012514.D  
 Injection Date: 25-Jan-2020 16:38:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-7 Lab Sample ID: 180-101459-7  
 Client ID: HD-COD-SW-26-0/1-0  
 Operator ID: 433269 ALS Bottle#: 8 Worklist Smp#: 14  
 Purge Vol: 5.000 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
7.99	63.00	371	0.149876
8.00	62.00	2843	
7.99	41.00	164	

Reviewer: bowieh, 28-Jan-2020 08:58:50

Audit Action: Marked Compound Undetected

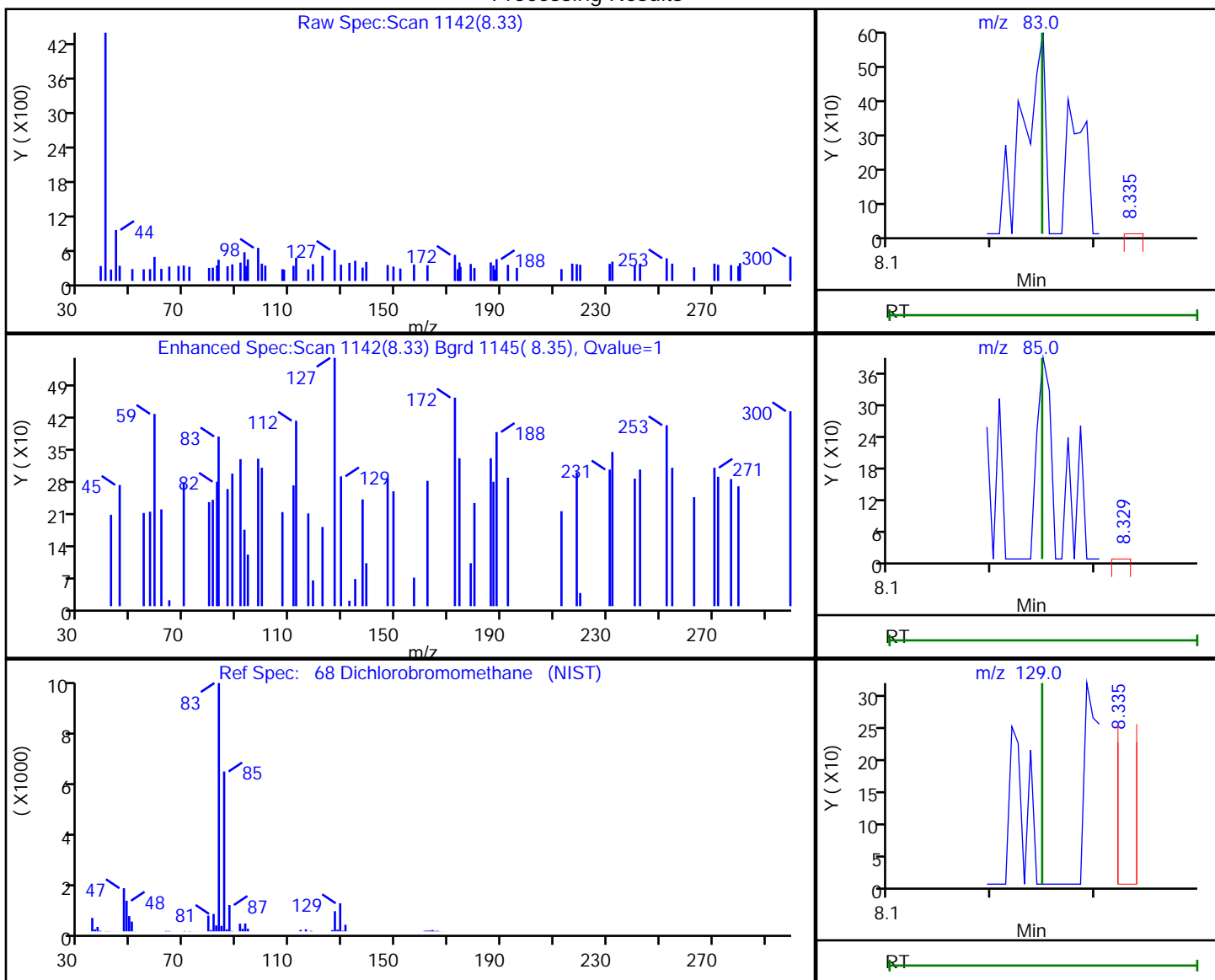
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Injection Date: 25-Jan-2020 16:38:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-7 Lab Sample ID: 180-101459-7  
 Client ID: HD-COD-SW-26-0/1-0  
 Operator ID: 433269 ALS Bottle#: 8 Worklist Smp#: 14  
 Purge Vol: 5.000 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
8.33	83.00	221	0.095511
8.33	85.00	391	
8.33	129.00	105	

Reviewer: bowieh, 28-Jan-2020 08:58:51

Audit Action: Marked Compound Undetected

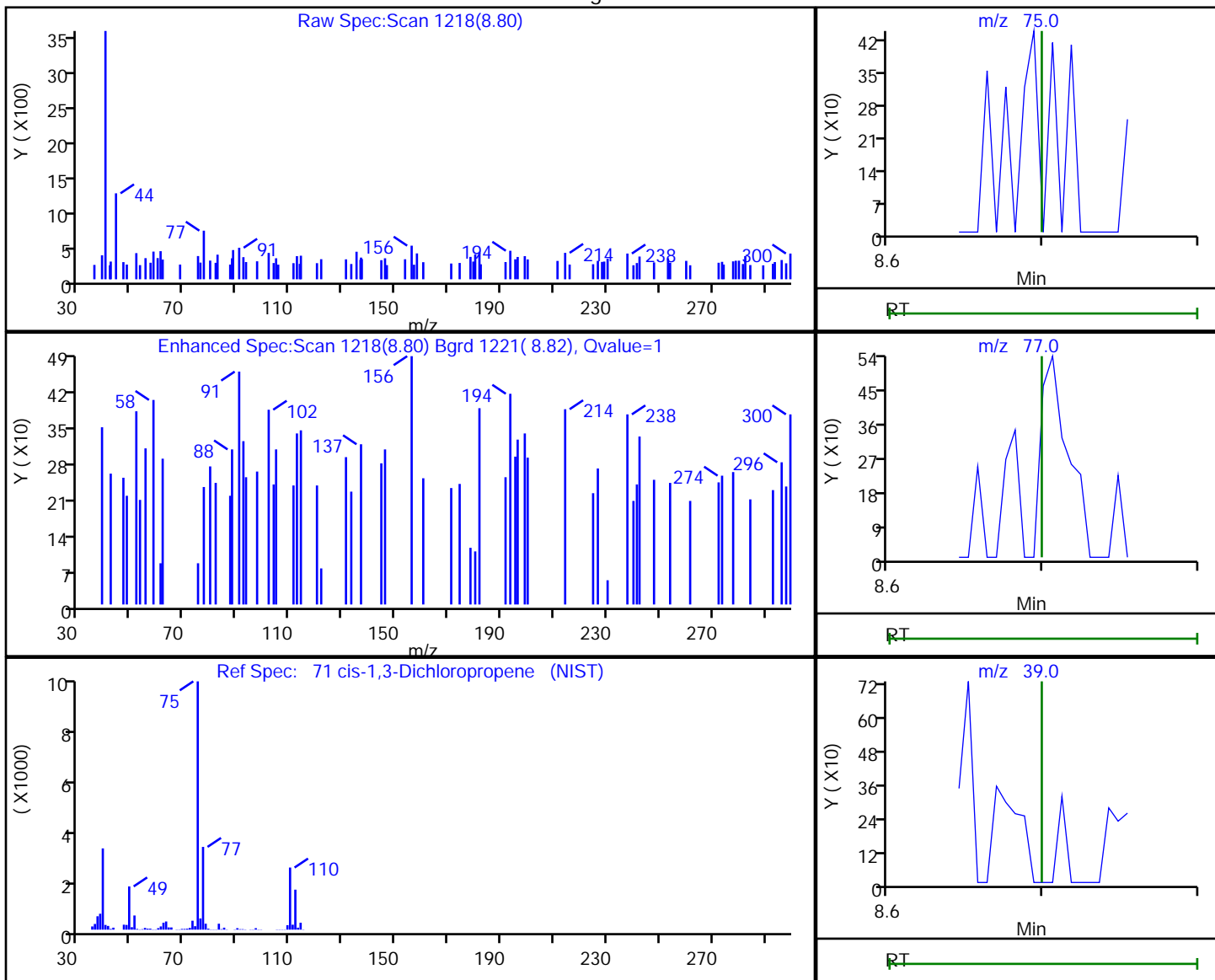
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Injection Date: 25-Jan-2020 16:38:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-7 Lab Sample ID: 180-101459-7  
 Client ID: HD-COD-SW-26-0/1-0  
 Operator ID: 433269 ALS Bottle#: 8 Worklist Smp#: 14  
 Purge Vol: 5.000 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	195	0.065168
8.80	77.00	493	
8.80	39.00	304	

Reviewer: bowieh, 28-Jan-2020 08:58:52

Audit Action: Marked Compound Undetected

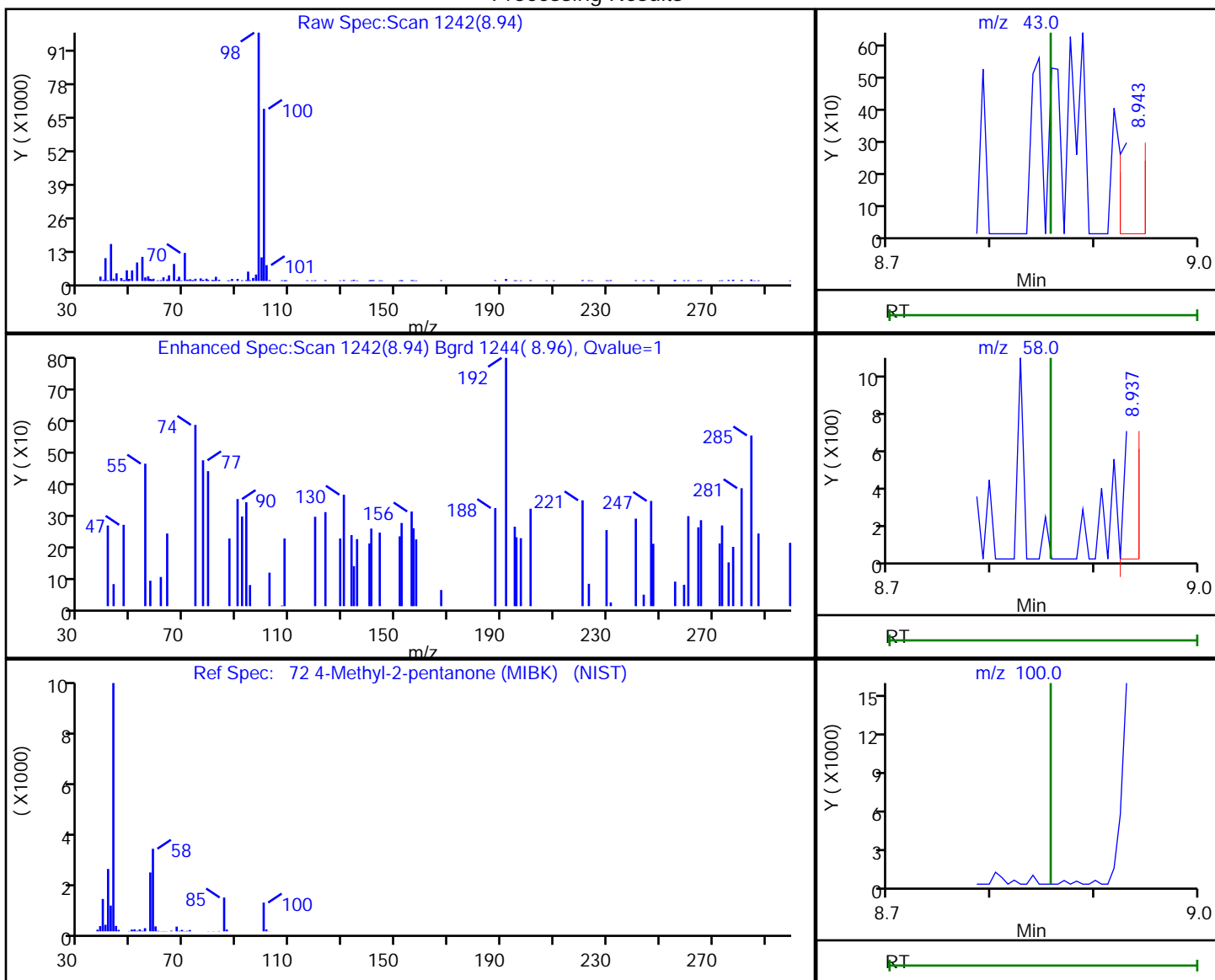
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012514.D  
 Injection Date: 25-Jan-2020 16:38:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-7 Lab Sample ID: 180-101459-7  
 Client ID: HD-COD-SW-26-0/1-0  
 Operator ID: 433269 ALS Bottle#: 8 Worklist Smp#: 14  
 Purge Vol: 5.000 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	934	0.440303
8.94	58.00	909	
8.86	100.00	0	

Reviewer: bowieh, 28-Jan-2020 08:58:53

Audit Action: Marked Compound Undetected

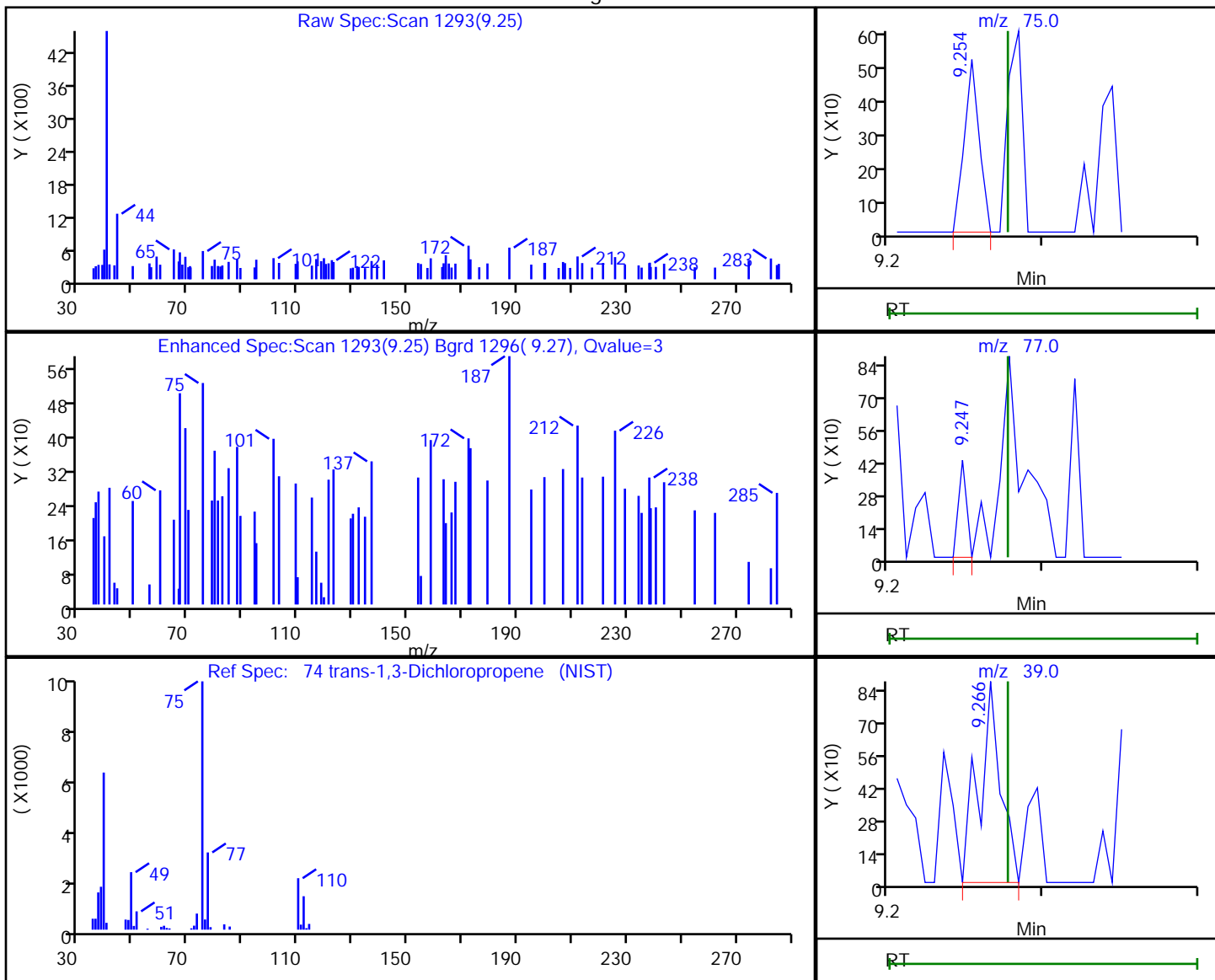
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Injection Date: 25-Jan-2020 16:38:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-7 Lab Sample ID: 180-101459-7  
 Client ID: HD-COD-SW-26-0/1-0  
 Operator ID: 433269 ALS Bottle#: 8 Worklist Smp#: 14  
 Purge Vol: 5.000 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
9.25	75.00	353	0.143205
9.25	77.00	155	
9.27	39.00	855	

Reviewer: bowieh, 28-Jan-2020 08:58:55

Audit Action: Marked Compound Undetected

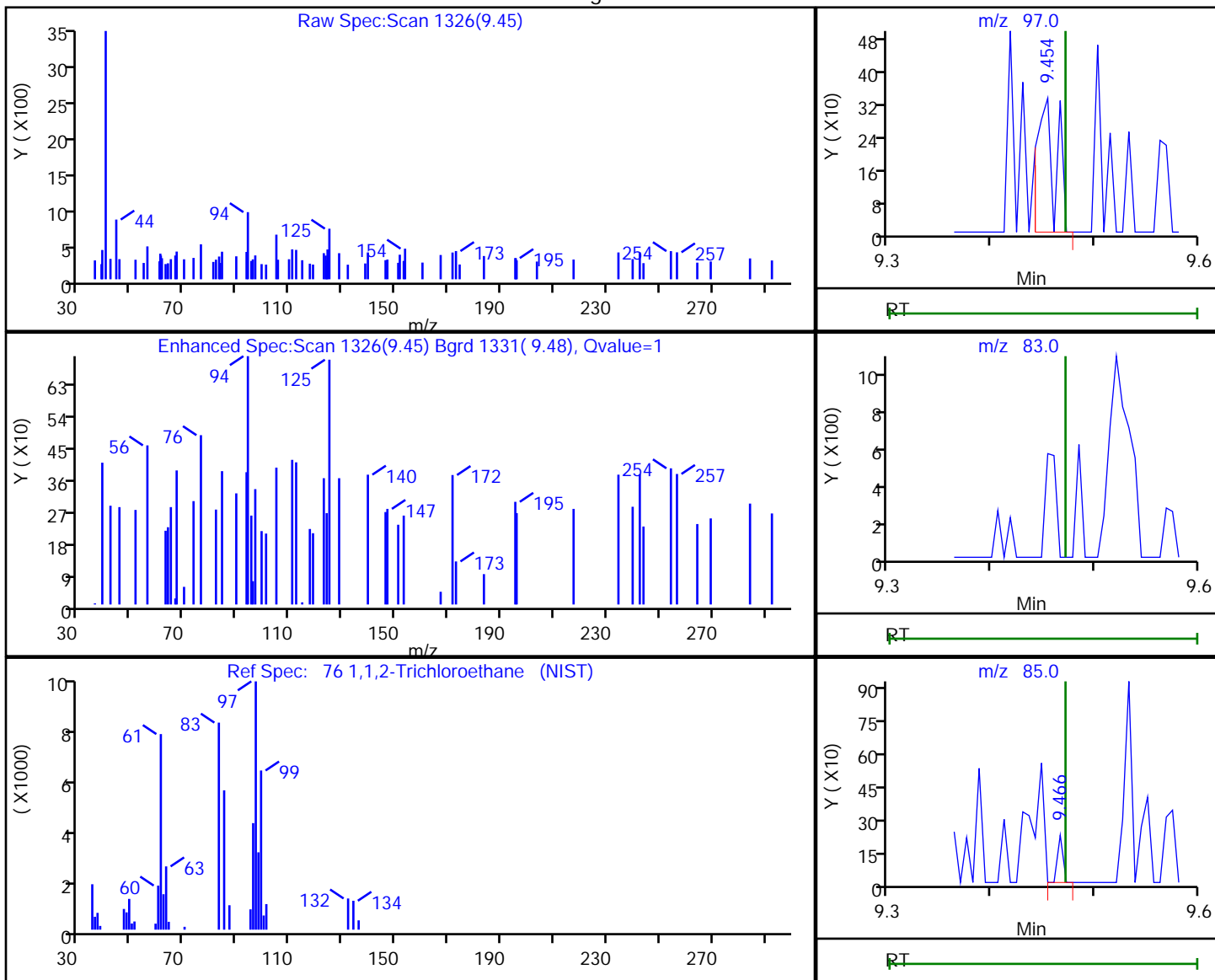
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Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012514.D  
 Injection Date: 25-Jan-2020 16:38:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-7 Lab Sample ID: 180-101459-7  
 Client ID: HD-COD-SW-26-0/1-0  
 Operator ID: 433269 ALS Bottle#: 8 Worklist Smp#: 14  
 Purge Vol: 5.000 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
9.45	97.00	412	0.200853
9.47	83.00	0	
9.47	85.00	79	

Reviewer: bowieh, 28-Jan-2020 08:58:56

Audit Action: Marked Compound Undetected

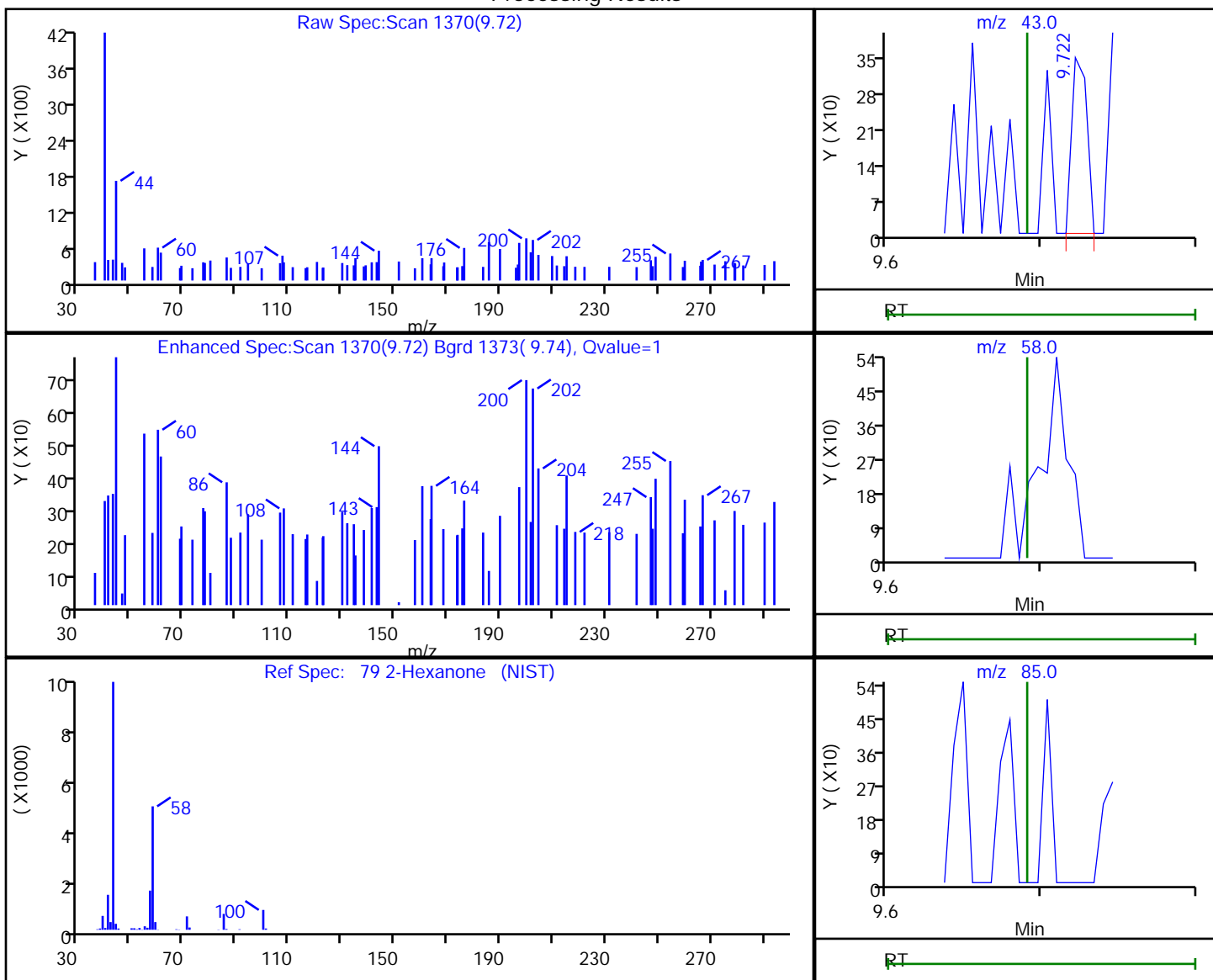
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012514.D  
Injection Date: 25-Jan-2020 16:38:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-7 Lab Sample ID: 180-101459-7  
Client ID: HD-COD-SW-26-0/1-0  
Operator ID: 433269 ALS Bottle#: 8 Worklist Smp#: 14  
Purge Vol: 5.000 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
9.72	43.00	237	0.129701
9.69	58.00	0	
9.69	85.00	0	

Reviewer: bowieh, 28-Jan-2020 08:58:59

Audit Action: Marked Compound Undetected

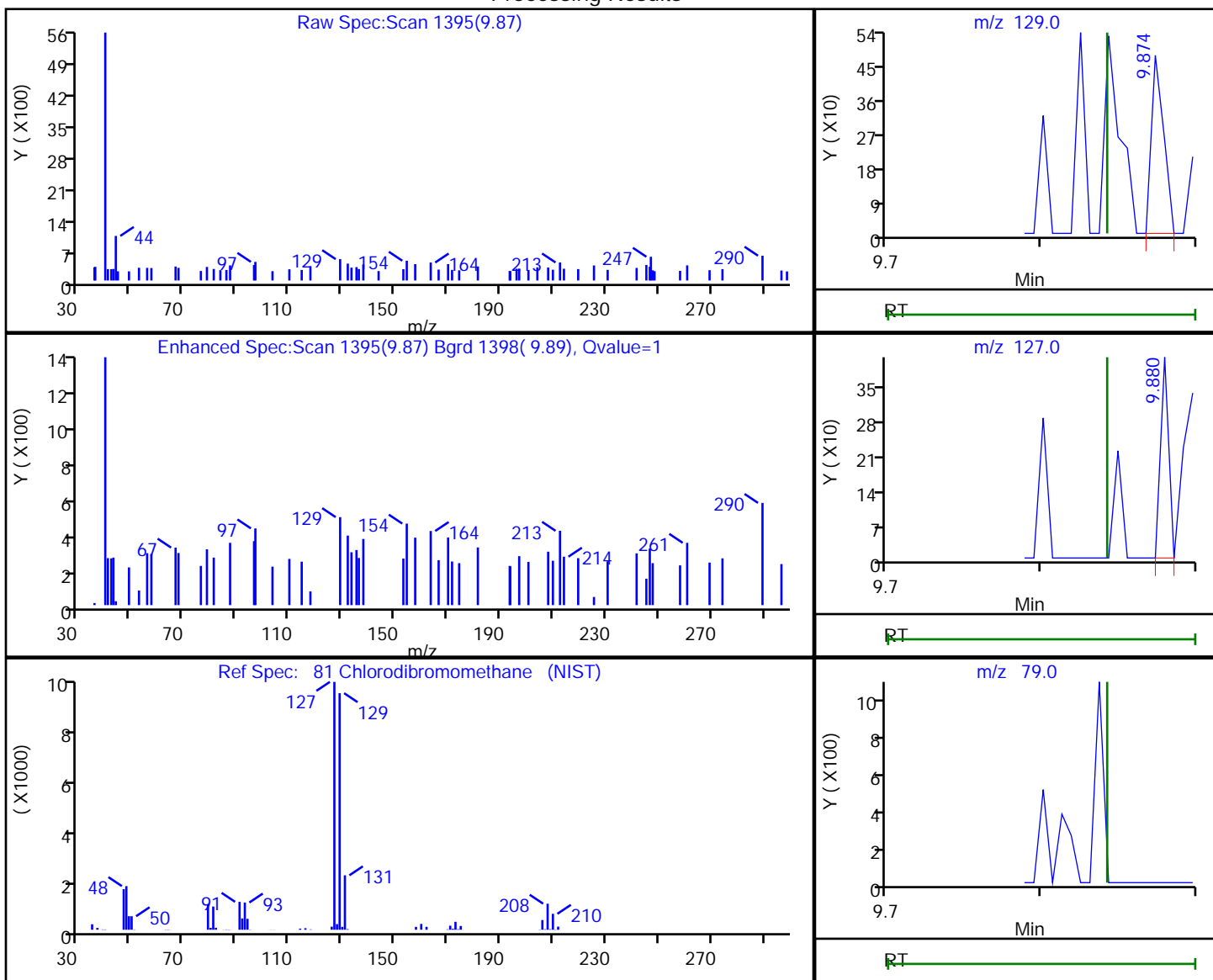
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012514.D  
 Injection Date: 25-Jan-2020 16:38:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-7 Lab Sample ID: 180-101459-7  
 Client ID: HD-COD-SW-26-0/1-0  
 Operator ID: 433269 ALS Bottle#: 8 Worklist Smp#: 14  
 Purge Vol: 5.000 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
9.87	129.00	265	0.152963
9.88	127.00	150	
9.84	79.00	0	

Reviewer: bowieh, 28-Jan-2020 08:59:00

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

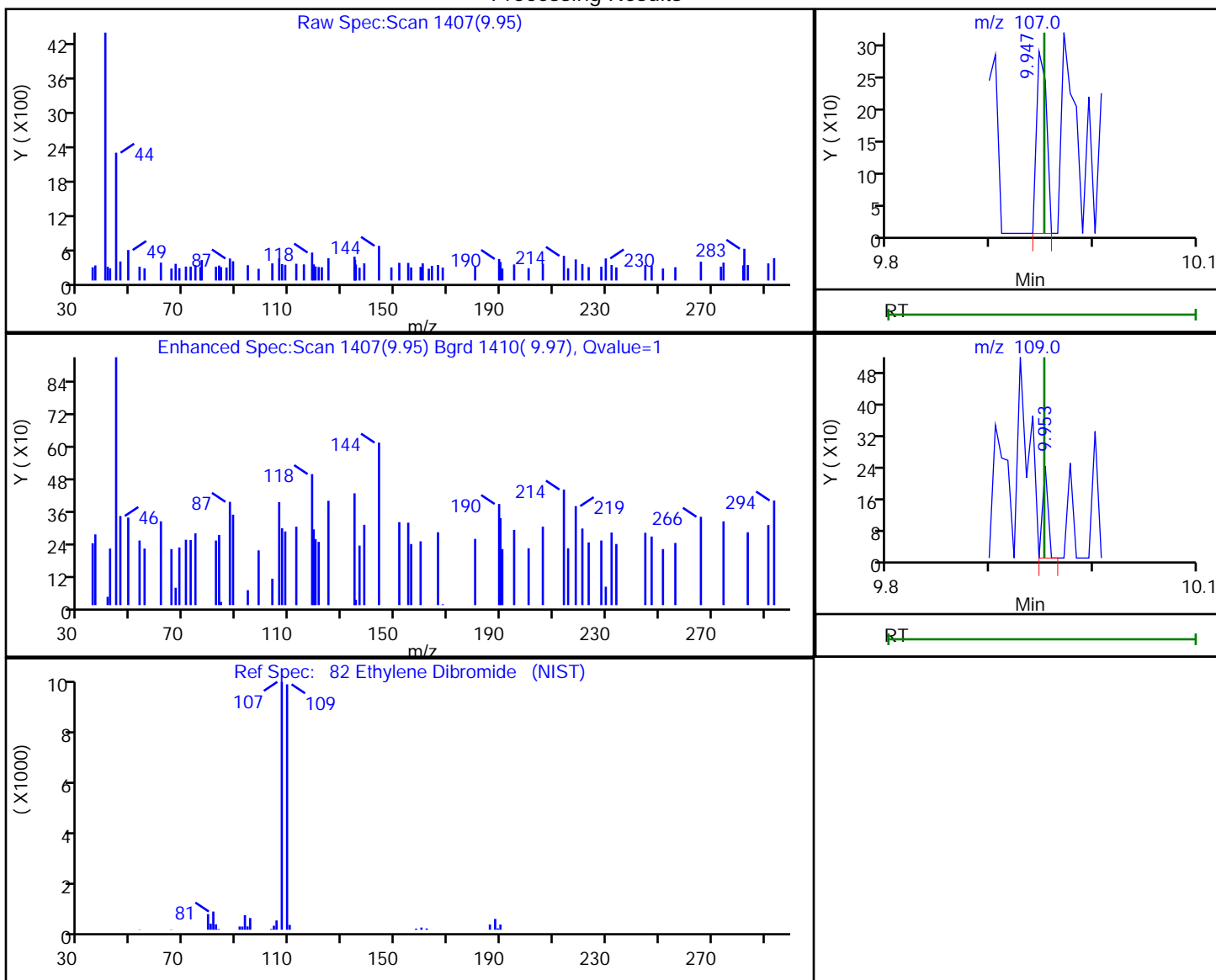


Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012514.D  
 Injection Date: 25-Jan-2020 16:38:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-7 Lab Sample ID: 180-101459-7  
 Client ID: HD-COD-SW-26-0/1-0  
 Operator ID: 433269 ALS Bottle#: 8 Worklist Smp#: 14  
 Purge Vol: 5.000 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
9.95	107.00	194	0.095831
9.95	109.00	87	

Reviewer: bowieh, 28-Jan-2020 08:59:01

Audit Action: Marked Compound Undetected

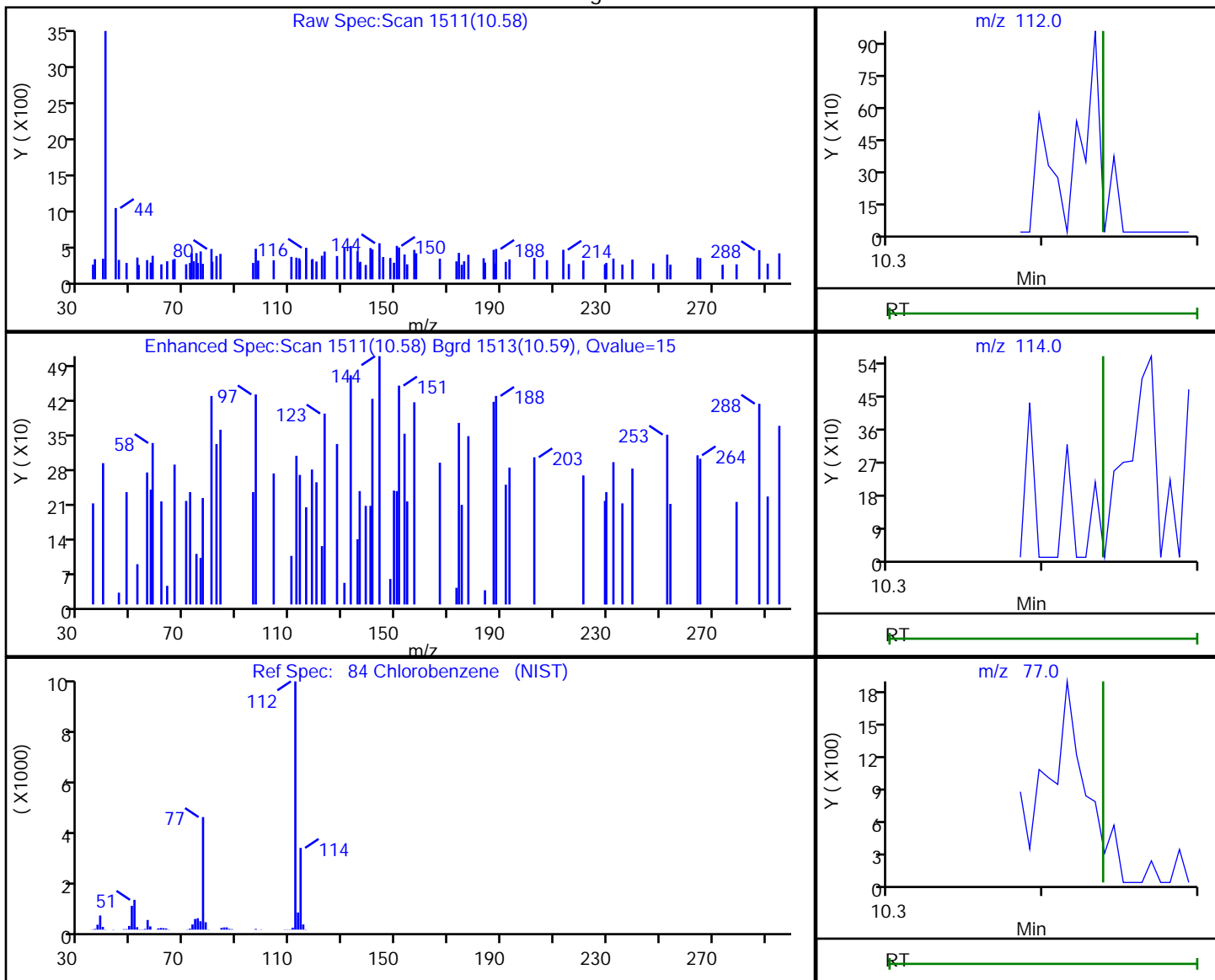
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012514.D  
 Injection Date: 25-Jan-2020 16:38:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-7 Lab Sample ID: 180-101459-7  
 Client ID: HD-COD-SW-26-0/1-0  
 Operator ID: 433269 ALS Bottle#: 8 Worklist Smp#: 14  
 Purge Vol: 5.000 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
10.58	112.00	261	0.034727
10.59	114.00	277	
10.57	77.00	767	

Reviewer: bowieh, 28-Jan-2020 08:59:03

Audit Action: Marked Compound Undetected

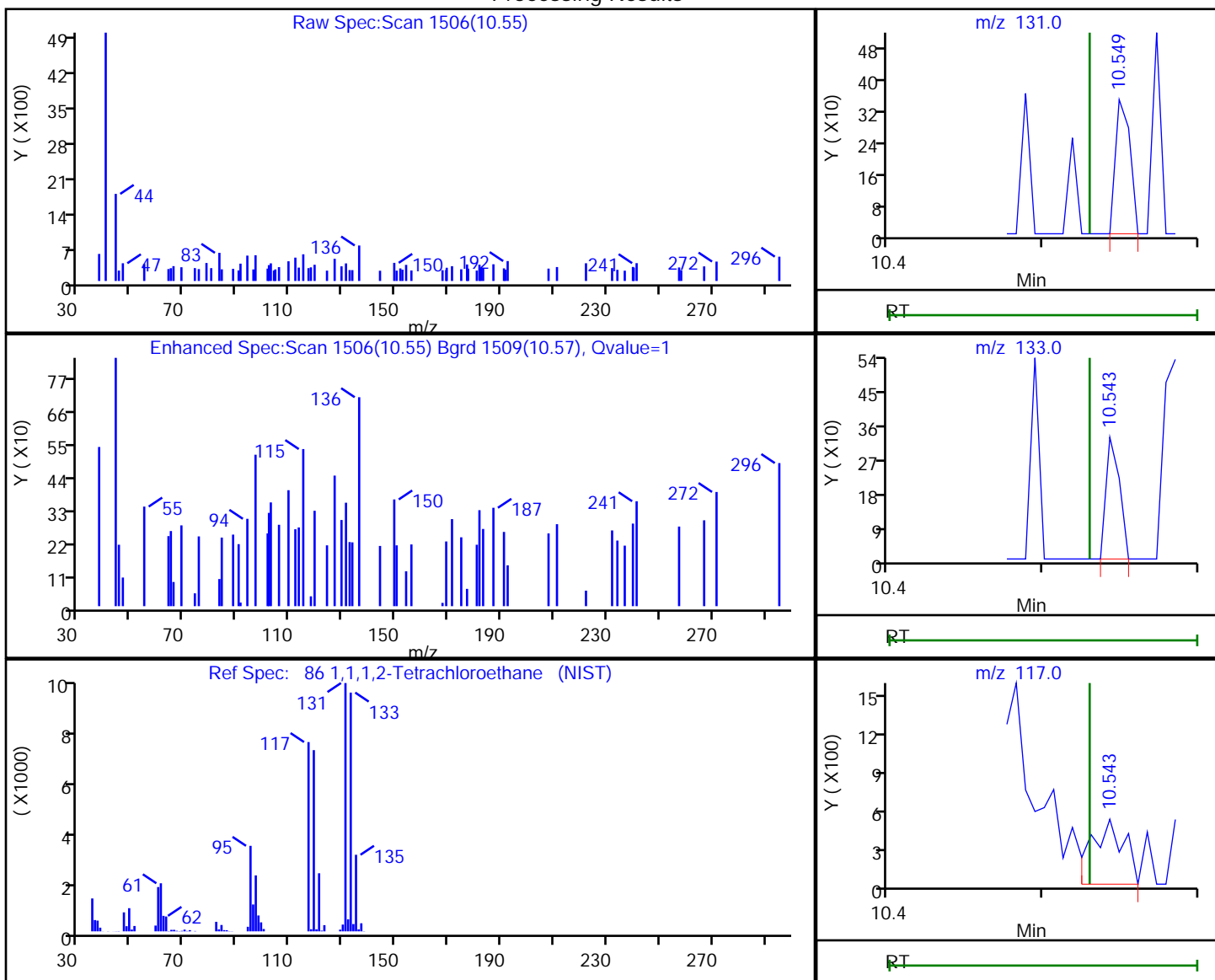
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012514.D  
 Injection Date: 25-Jan-2020 16:38:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-7 Lab Sample ID: 180-101459-7  
 Client ID: HD-COD-SW-26-0/1-0  
 Operator ID: 433269 ALS Bottle#: 8 Worklist Smp#: 14  
 Purge Vol: 5.000 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
10.55	131.00	227	0.102824
10.54	133.00	196	
10.54	117.00	751	

Reviewer: bowieh, 28-Jan-2020 08:59:04

Audit Action: Marked Compound Undetected

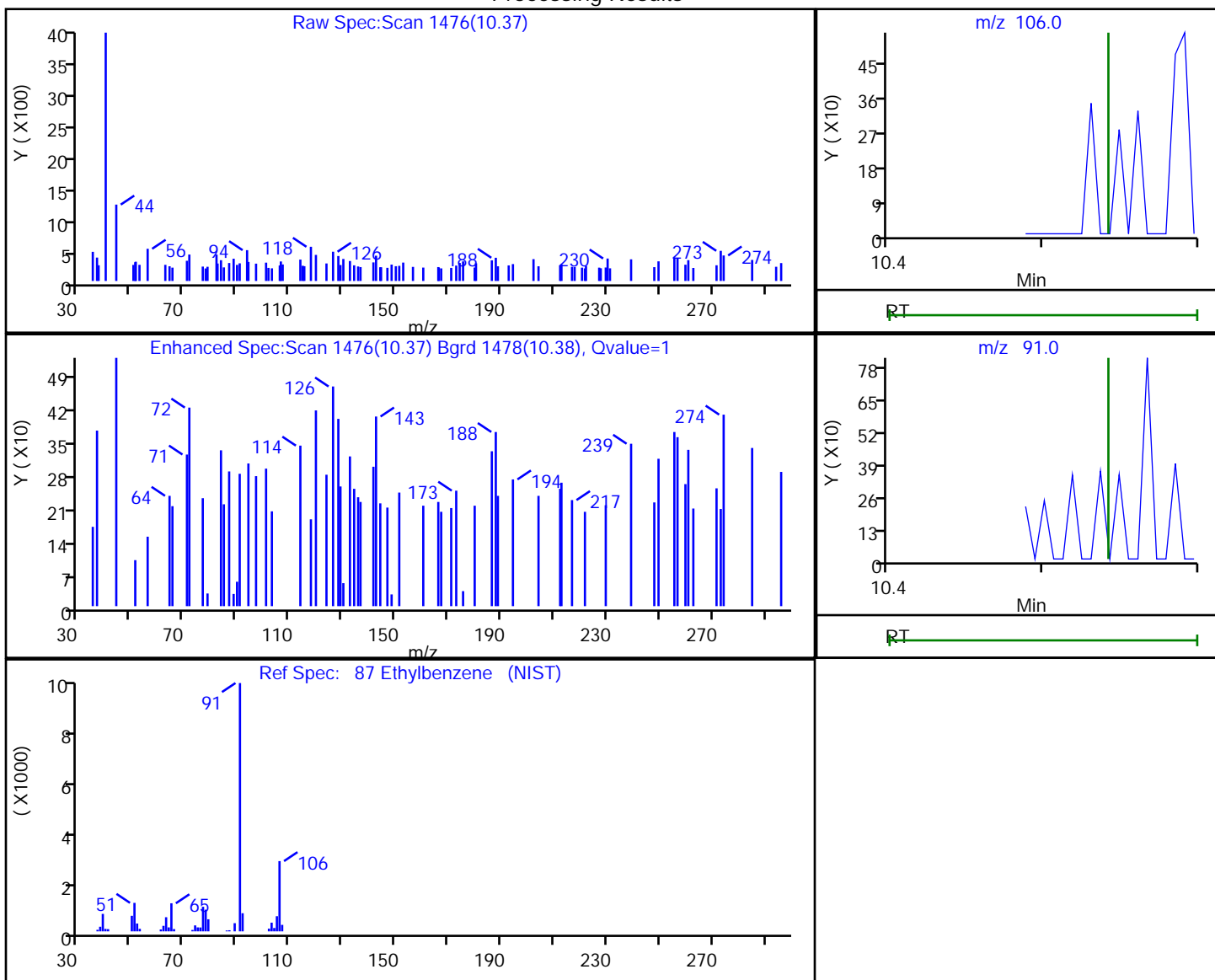
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012514.D  
 Injection Date: 25-Jan-2020 16:38:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-7 Lab Sample ID: 180-101459-7  
 Client ID: HD-COD-SW-26-0/1-0  
 Operator ID: 433269 ALS Bottle#: 8 Worklist Smp#: 14  
 Purge Vol: 5.000 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
10.37	106.00	377	0.087653
10.36	91.00	230	

Reviewer: bowieh, 28-Jan-2020 08:59:05

Audit Action: Marked Compound Undetected

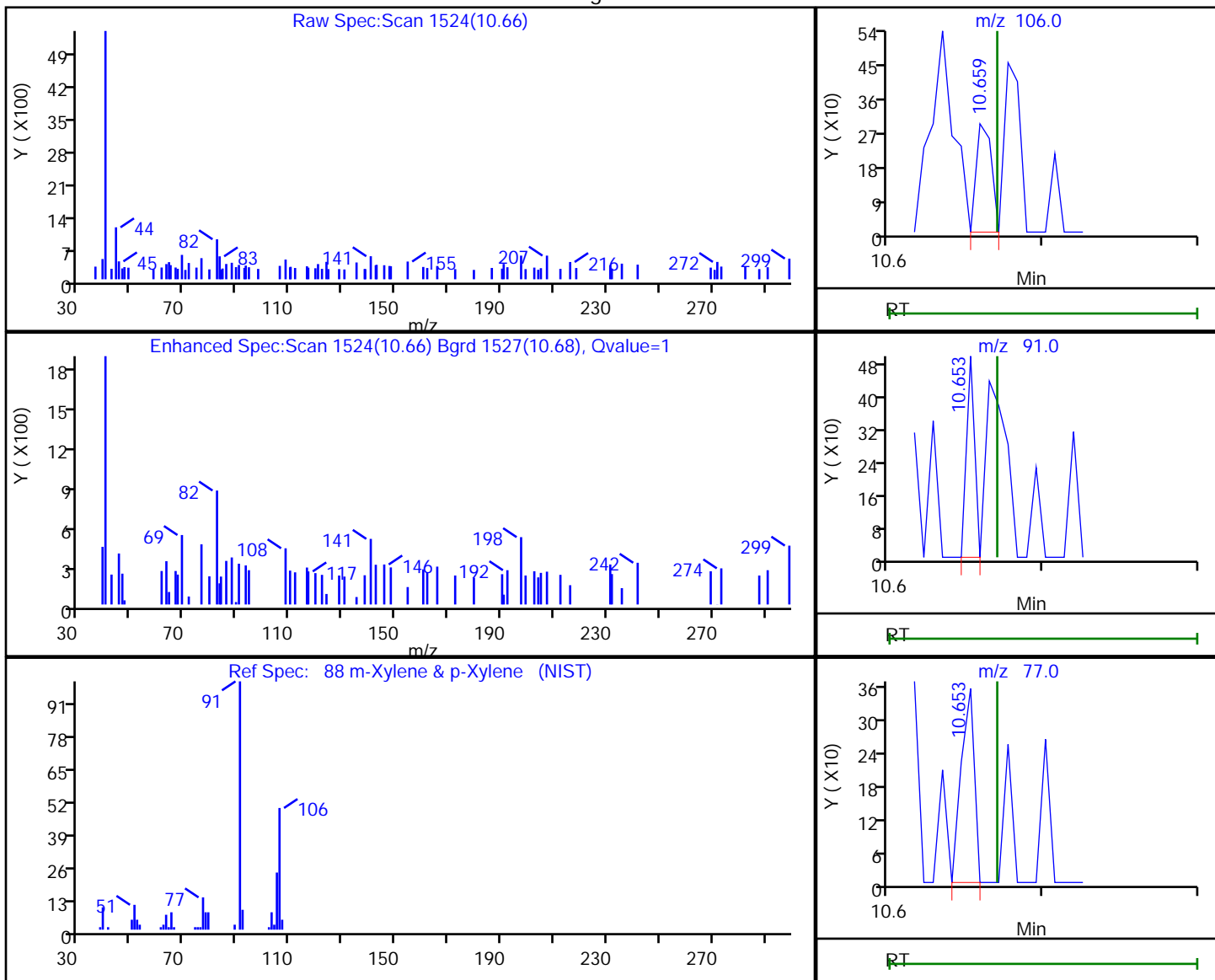
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012514.D  
 Injection Date: 25-Jan-2020 16:38:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-7 Lab Sample ID: 180-101459-7  
 Client ID: HD-COD-SW-26-0/1-0  
 Operator ID: 433269 ALS Bottle#: 8 Worklist Smp#: 14  
 Purge Vol: 5.000 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
10.66	106.00	195	0.037822
10.65	91.00	183	
10.65	77.00	206	

Reviewer: bowieh, 28-Jan-2020 08:59:06

Audit Action: Marked Compound Undetected

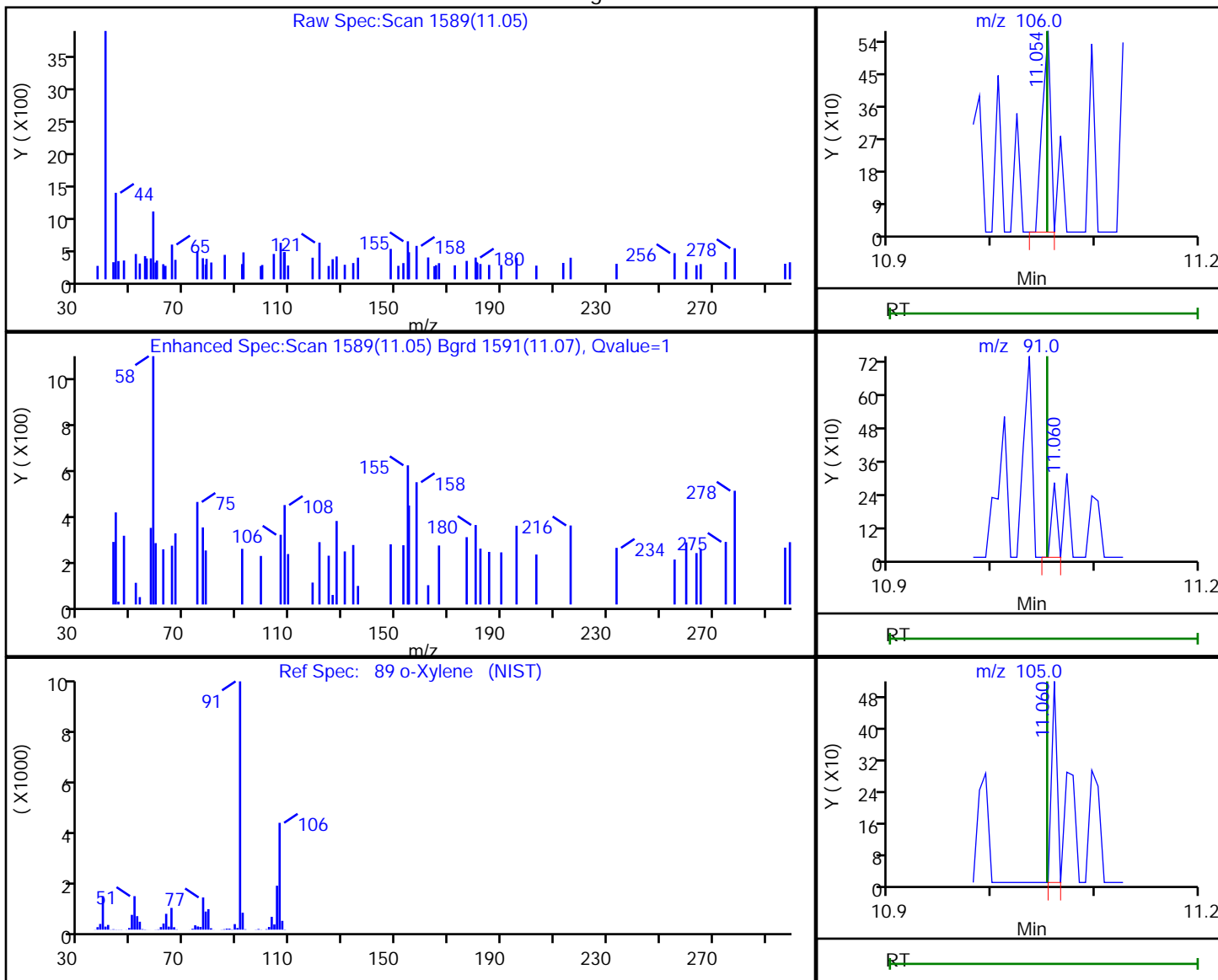
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012514.D  
 Injection Date: 25-Jan-2020 16:38:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-7 Lab Sample ID: 180-101459-7  
 Client ID: HD-COD-SW-26-0/1-0  
 Operator ID: 433269 ALS Bottle#: 8 Worklist Smp#: 14  
 Purge Vol: 5.000 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
11.05	106.00	318	0.064824
11.06	91.00	100	
11.06	105.00	188	

Reviewer: bowieh, 28-Jan-2020 08:59:07

Audit Action: Marked Compound Undetected

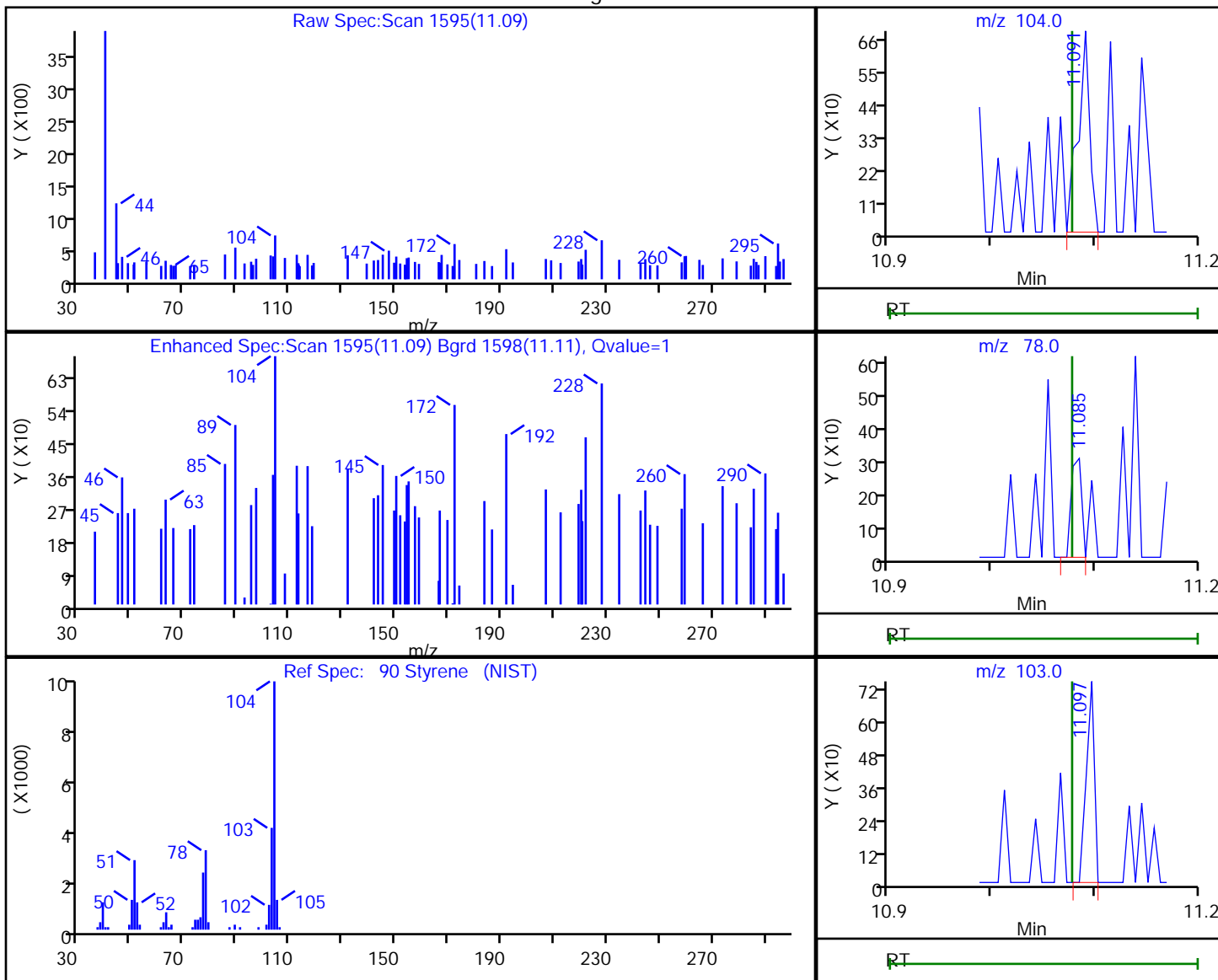
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012514.D  
Injection Date: 25-Jan-2020 16:38:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-7 Lab Sample ID: 180-101459-7  
Client ID: HD-COD-SW-26-0/1-0  
Operator ID: 433269 ALS Bottle#: 8 Worklist Smp#: 14  
Purge Vol: 5.000 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
11.09	104.00	539	0.069357
11.08	78.00	211	
11.10	103.00	403	

Reviewer: bowieh, 28-Jan-2020 08:59:09

Audit Action: Marked Compound Undetected

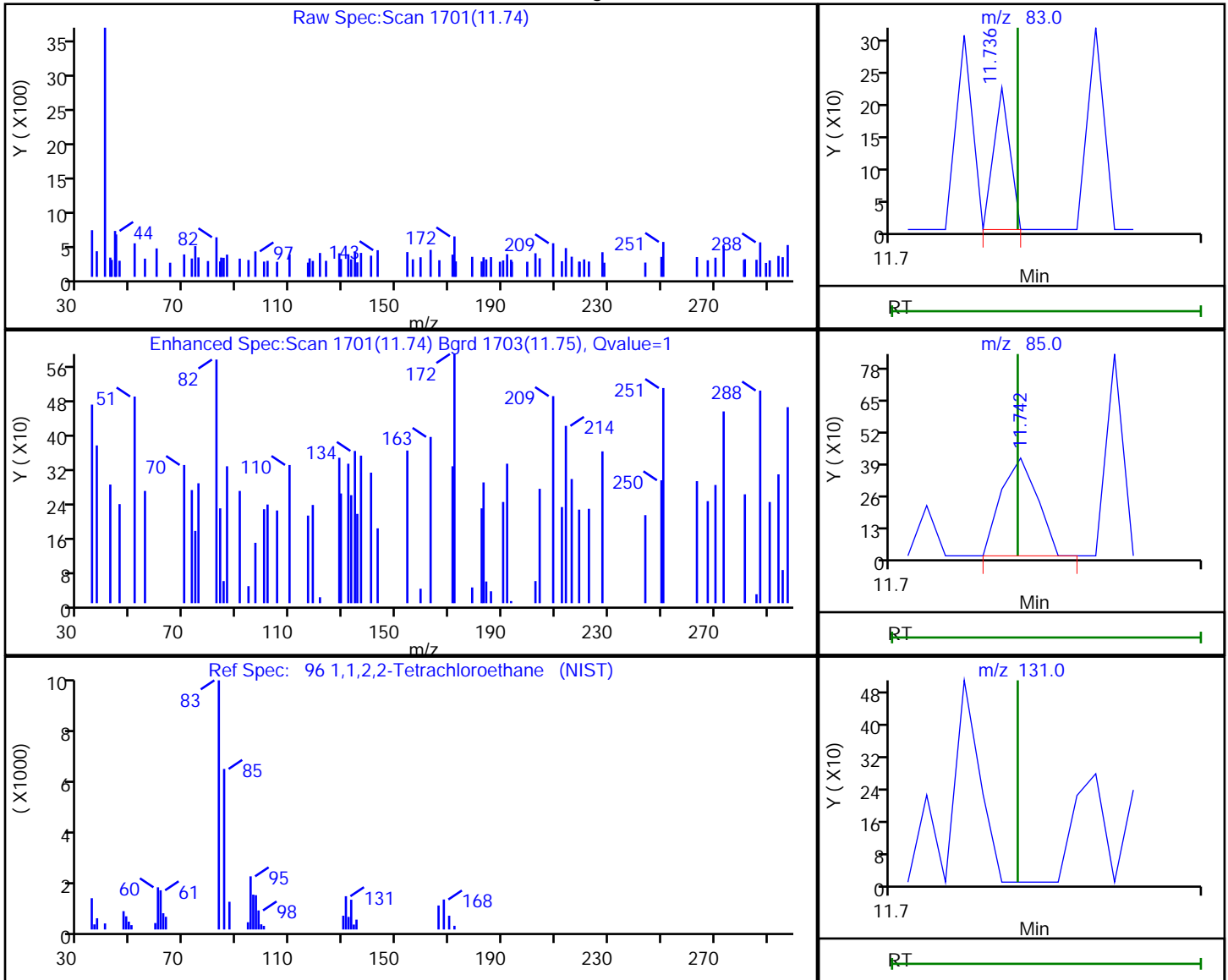
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012514.D  
 Injection Date: 25-Jan-2020 16:38:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-7 Lab Sample ID: 180-101459-7  
 Client ID: HD-COD-SW-26-0/1-0  
 Operator ID: 433269 ALS Bottle#: 8 Worklist Smp#: 14  
 Purge Vol: 5.000 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
11.74	83.00	81	0.037047
11.74	85.00	330	
11.74	131.00	0	

Reviewer: bowieh, 28-Jan-2020 08:59:11

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

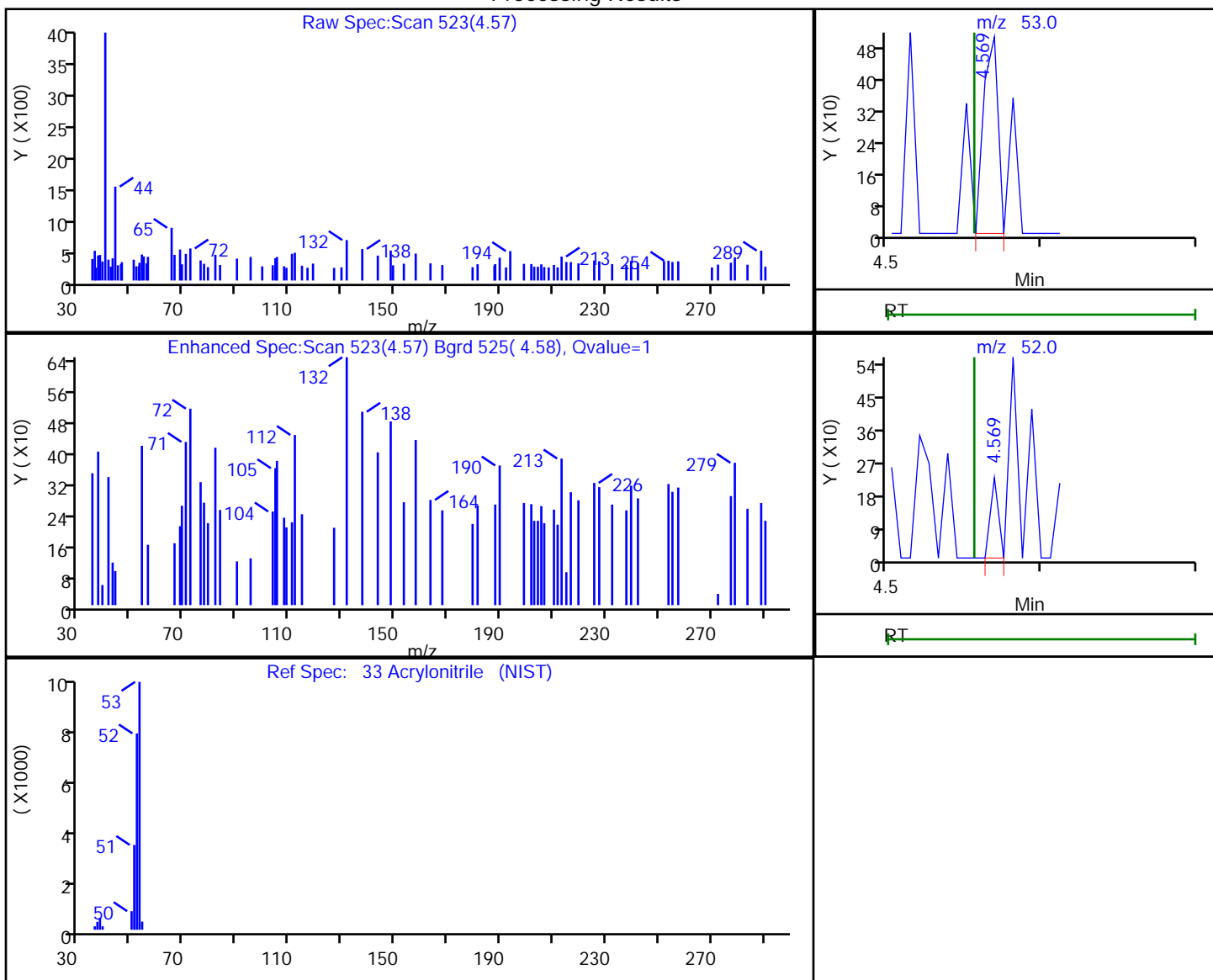


Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012514.D  
 Injection Date: 25-Jan-2020 16:38:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-7 Lab Sample ID: 180-101459-7  
 Client ID: HD-COD-SW-26-0/1-0  
 Operator ID: 433269 ALS Bottle#: 8 Worklist Smp#: 14  
 Purge Vol: 5.000 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
4.57	53.00	330	0.343326
4.57	52.00	82	

Reviewer: bowieh, 28-Jan-2020 08:58:36

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.: 180-101459-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: HD-COD-SW-7-0/1-0 Lab Sample ID: 180-101459-8  
 Matrix: Water Lab File ID: 6012515.D  
 Analysis Method: EPA 8260C Date Collected: 01/23/2020 12:50  
 Sample wt/vol: 5 (mL) Date Analyzed: 01/25/2020 17:05  
 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.: 304996 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	ND	^c	1.0	0.88
74-83-9	Bromomethane	ND	^c	1.0	0.89
75-00-3	Chloroethane	ND	^c	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.: 180-101459-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: HD-COD-SW-7-0/1-0 Lab Sample ID: 180-101459-8  
 Matrix: Water Lab File ID: 6012515.D  
 Analysis Method: EPA 8260C Date Collected: 01/23/2020 12:50  
 Sample wt/vol: 5 (mL) Date Analyzed: 01/25/2020 17:05  
 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.: 304996 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)	123		70-150
2037-26-5	Toluene-d8 (Surr)	97		78-128
460-00-4	4-Bromofluorobenzene (Surr)	81		64-123
1868-53-7	Dibromofluoromethane (Surr)	114		75-147

Eurofins TestAmerica, Pittsburgh  
Target Compound Quantitation Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012515.D  
 Lims ID: 180-101459-B-8  
 Client ID: HD-COD-SW-7-0/1-0  
 Sample Type: Client  
 Inject. Date: 25-Jan-2020 17:05:30 ALS Bottle#: 9 Worklist Smp#: 15  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 180-0030512-015  
 Misc. Info.: 180-101459-b-8  
 Operator ID: 433269 Instrument ID: CHHP6  
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\MSVOA\_LL\_CHHP6.m  
 Limit Group: VOA 8260C\_D ICAL  
 Last Update: 28-Jan-2020 09:37:39 Calib Date: 31-Dec-2019 16:03:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123111.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0335

First Level Reviewer: bowieh

Date: 28-Jan-2020 09:37:39

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.308	4.319	-0.011	87	136645	1000.0	
* 2 Fluorobenzene (IS)	96	7.307	7.306	0.001	99	463490	50.0	
* 3 Chlorobenzene-d5	119	10.416	10.408	0.008	84	123295	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.758	12.757	0.001	94	171987	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.577	6.582	-0.005	94	119521	57.2	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.948	6.953	-0.005	97	133906	61.6	
\$ 7 Toluene-d8 (Surr)	98	8.956	8.954	0.002	94	444059	48.6	
\$ 8 4-Bromofluorobenzene (Surr	95	11.596	11.595	0.001	0	132856	40.7	
12 Chloromethane	50	1.832	1.837	-0.005	86	9840	2.79	
13 Vinyl chloride	62		1.952				ND	U
15 Bromomethane	94		2.287				ND	U
16 Chloroethane	64		2.421				ND	U
22 1,1-Dichloroethene	96		3.370				ND	U
24 Acetone	43	3.499	3.473	0.026	80	10036	8.87	M
26 Carbon disulfide	76		3.662				ND	U
31 Methylene Chloride	84		4.155				ND	
33 Acrylonitrile	53		4.556				ND	U
34 trans-1,2-Dichloroethene	96		4.574				ND	U
35 Methyl tert-butyl ether	73		4.611				ND	U
37 1,1-Dichloroethane	63		5.219				ND	
43 cis-1,2-Dichloroethene	96	5.969	5.967	0.002	24	1810	0.6663	
44 2-Butanone (MEK)	43		5.980				ND	U
48 Chlorobromomethane	128		6.247				ND	
50 Chloroform	83		6.393				ND	U
51 1,1,1-Trichloroethane	97		6.558				ND	U
53 Carbon tetrachloride	117		6.722				ND	U
56 Benzene	78		6.959				ND	U
57 1,2-Dichloroethane	62		7.038				ND	U
61 Trichloroethene	130	7.684	7.689	-0.005	19	1429	0.4813	
64 1,2-Dichloropropane	63		7.963				ND	U
68 Dichlorobromomethane	83		8.249				ND	U

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
71 cis-1,3-Dichloropropene	75		8.699				ND	
72 4-Methyl-2-pentanone (MIBK)	43		8.857				ND	U
73 Toluene	91	9.023	9.021	0.002	16	2516	0.2165	
74 trans-1,3-Dichloropropene	75		9.277				ND	U
76 1,1,2-Trichloroethane	97		9.472				ND	U
77 Tetrachloroethene	164		9.538				ND	U
79 2-Hexanone	43		9.691				ND	U
81 Chlorodibromomethane	129		9.843				ND	U
82 Ethylene Dibromide	107		9.952				ND	U
84 Chlorobenzene	112		10.439				ND	U
86 1,1,1,2-Tetrachloroethane	131		10.530				ND	U
87 Ethylbenzene	106		10.542				ND	U
88 m-Xylene & p-Xylene	106		10.670				ND	U
89 o-Xylene	106		11.053				ND	U
90 Styrene	104		11.078				ND	U
91 Bromoform	173		11.254				ND	U
96 1,1,2,2-Tetrachloroethane	83		11.741				ND	U
S 131 Xylenes, Total	106		1.000				ND	

### QC Flag Legend

Review Flags

M - Manually Integrated

U - Marked Undetected

### Reagents:

VOA8260INT\_00103

Amount Added: 2.00

Units: uL

Run Reagent

VOA8260SURR\_00103

Amount Added: 2.00

Units: uL

Run Reagent

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012515.D

Injection Date: 25-Jan-2020 17:05:30

Instrument ID: CHHP6

Operator ID: 433269

Lims ID: 180-101459-B-8

Lab Sample ID: 180-101459-8

Worklist Smp#: 15

Client ID: HD-COD-SW-7-0/1-0

Purge Vol: 5.000 mL

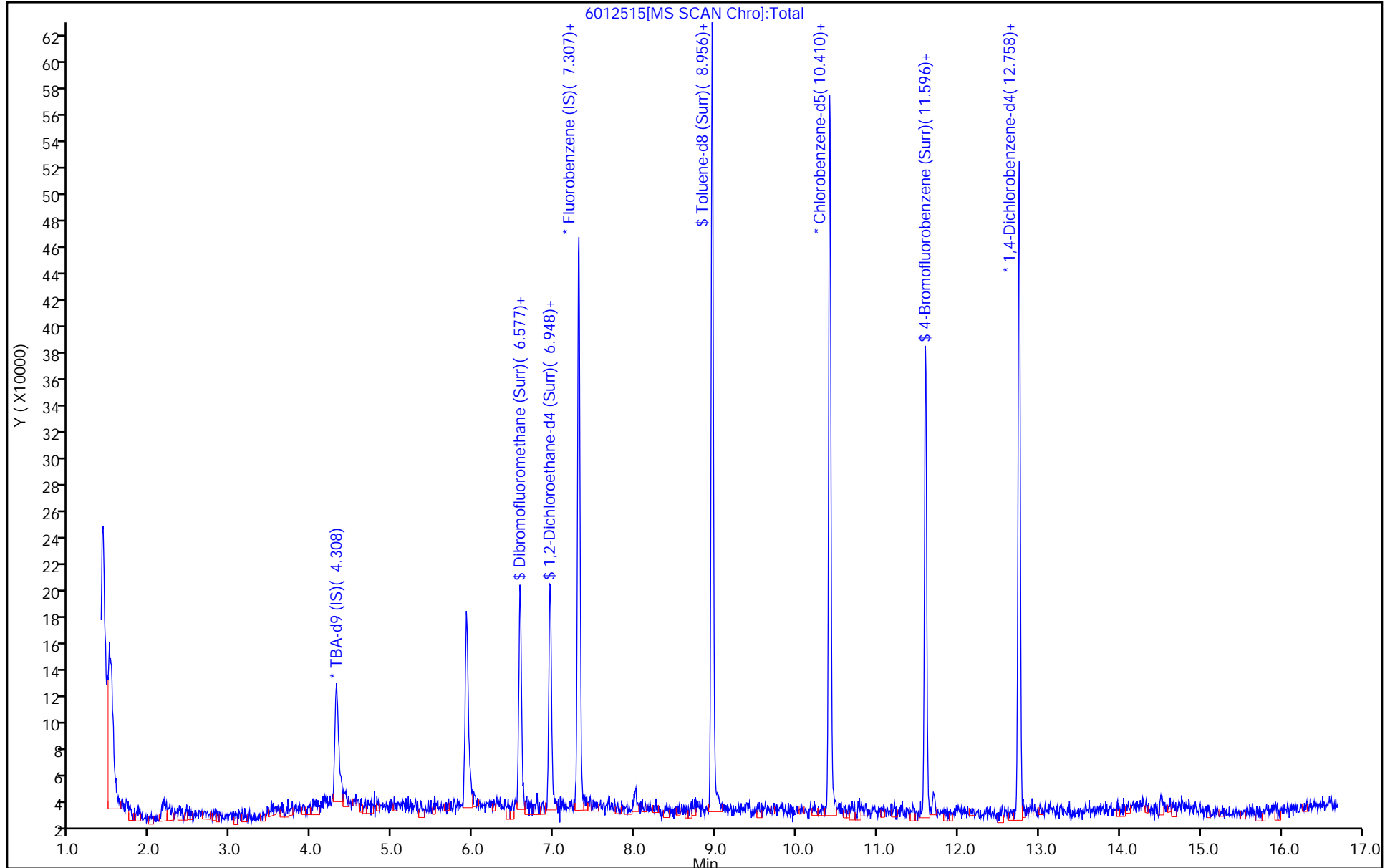
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: MSVOA\_LL\_CHHP6

Limit Group: VOA 8260C\_D ICAL

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Pittsburgh  
Recovery Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012515.D  
 Lims ID: 180-101459-B-8  
 Client ID: HD-COD-SW-7-0/1-0  
 Sample Type: Client  
 Inject. Date: 25-Jan-2020 17:05:30 ALS Bottle#: 9 Worklist Smp#: 15  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 180-0030512-015  
 Misc. Info.: 180-101459-b-8  
 Operator ID: 433269 Instrument ID: CHHP6  
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\MSVOA\_LL\_CHHP6.m  
 Limit Group: VOA 8260C\_D ICAL  
 Last Update: 28-Jan-2020 09:37:39 Calib Date: 31-Dec-2019 16:03:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123111.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0335

First Level Reviewer: bowieh Date: 28-Jan-2020 09:37:39

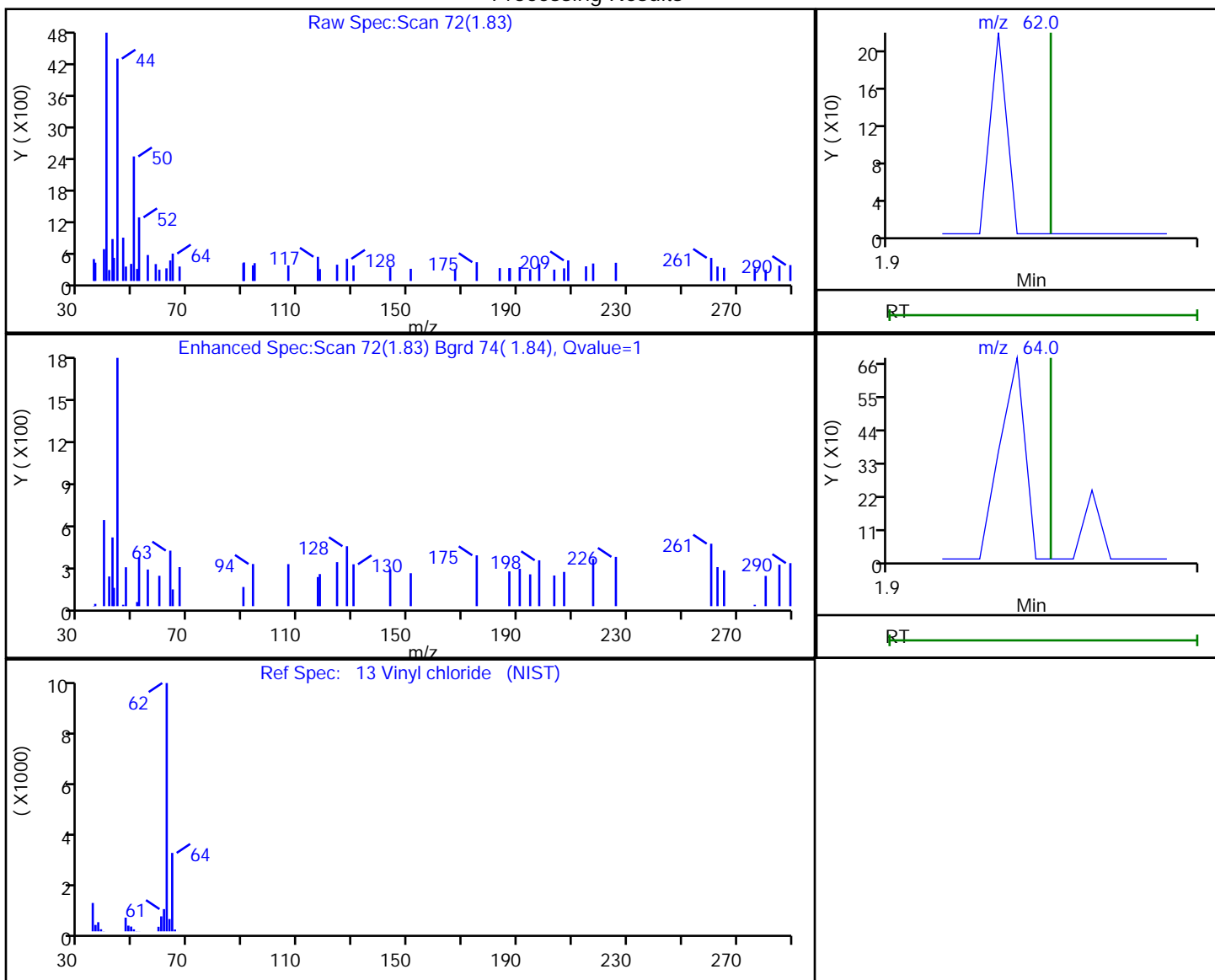
Compound	Amount Added	Amount Recovered	% Rec.
\$ 5 Dibromofluoromethane (Surr)	50.0	57.2	114.45
\$ 6 1,2-Dichloroethane-d4 (Surr)	50.0	61.6	123.22
\$ 7 Toluene-d8 (Surr)	50.0	48.6	97.24
\$ 8 4-Bromofluorobenzene (Surr)	50.0	40.7	81.45

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012515.D  
 Injection Date: 25-Jan-2020 17:05:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-8 Lab Sample ID: 180-101459-8  
 Client ID: HD-COD-SW-7-0/1-0  
 Operator ID: 433269 ALS Bottle#: 9 Worklist Smp#: 15  
 Purge Vol: 5.000 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
1.83	62.00	88	0.028952
1.83	64.00	811	

Reviewer: bowieh, 28-Jan-2020 09:00:05

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

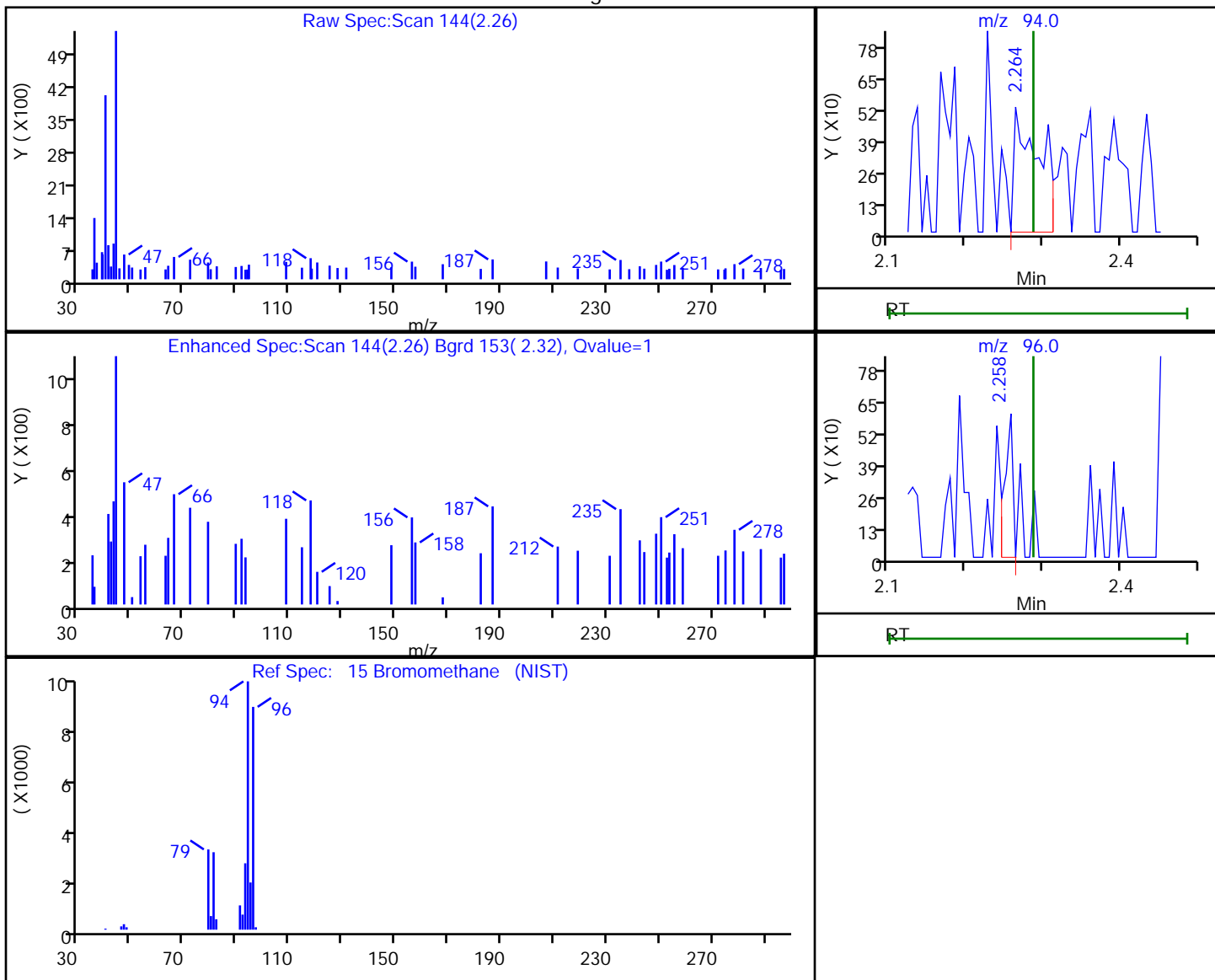


Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012515.D  
 Injection Date: 25-Jan-2020 17:05:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-8 Lab Sample ID: 180-101459-8  
 Client ID: HD-COD-SW-7-0/1-0  
 Operator ID: 433269 ALS Bottle#: 9 Worklist Smp#: 15  
 Purge Vol: 5.000 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
2.26	94.00	1163	0.599726
2.26	96.00	433	

Reviewer: bowieh, 28-Jan-2020 09:00:07

Audit Action: Marked Compound Undetected

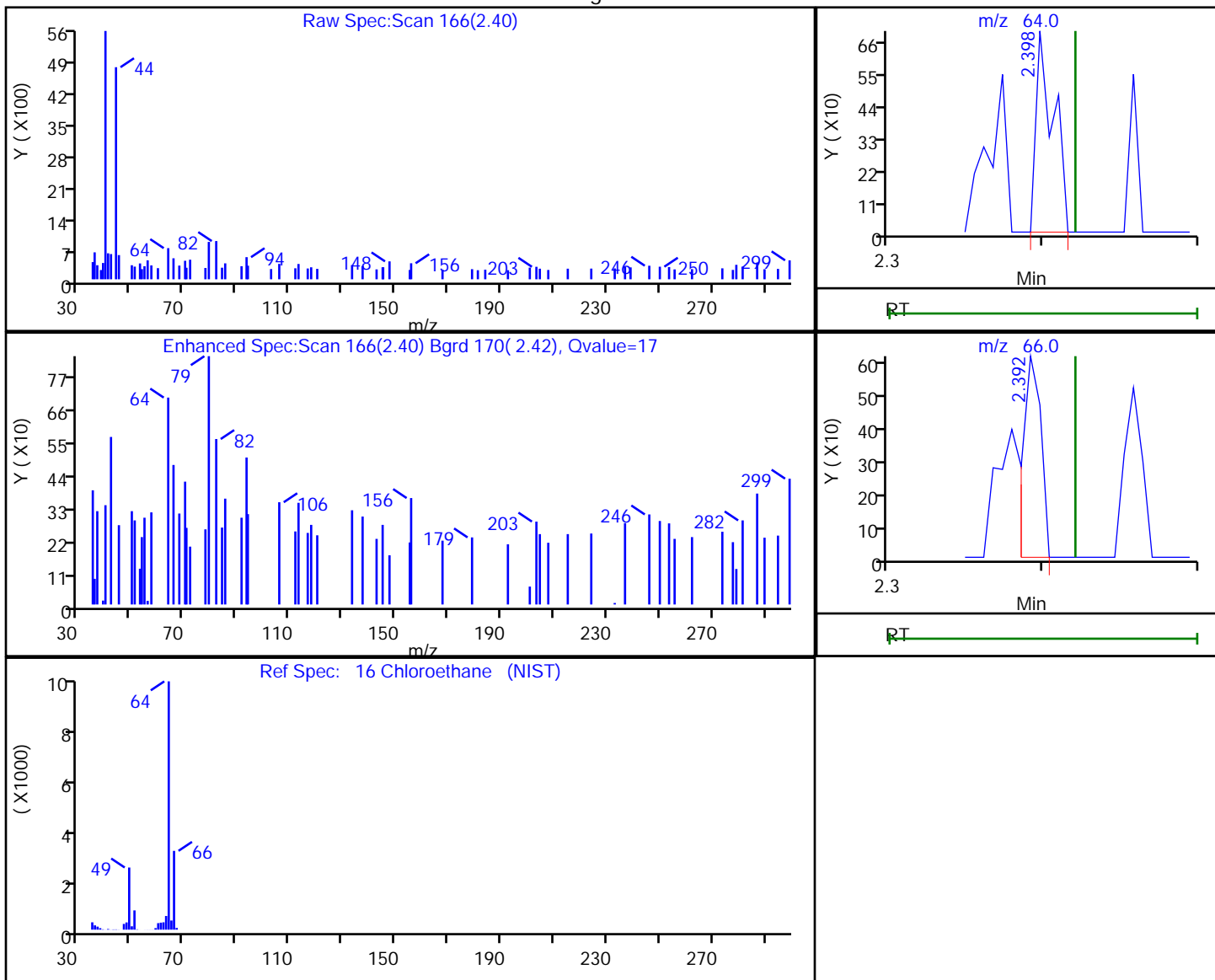
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012515.D  
Injection Date: 25-Jan-2020 17:05:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-8 Lab Sample ID: 180-101459-8  
Client ID: HD-COD-SW-7-0/1-0  
Operator ID: 433269 ALS Bottle#: 9 Worklist Smp#: 15  
Purge Vol: 5.000 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	546	0.246650
2.39	66.00	498	

Reviewer: bowieh, 28-Jan-2020 09:00:08

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

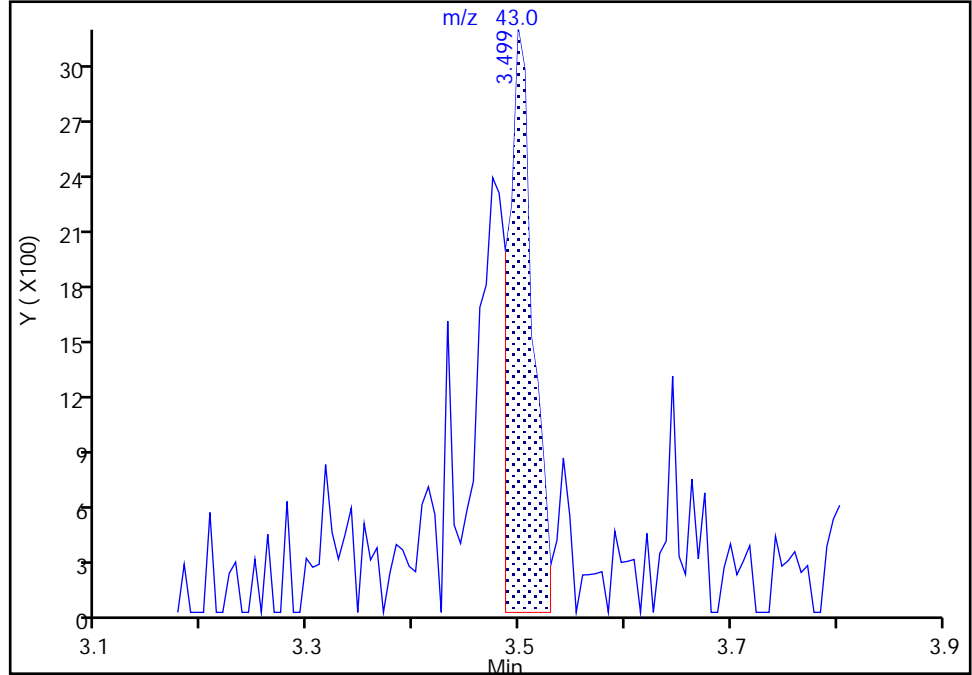
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Injection Date: 25-Jan-2020 17:05:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-8 Lab Sample ID: 180-101459-8  
Client ID: HD-COD-SW-7-0/1-0  
Operator ID: 433269 ALS Bottle#: 9 Worklist Smp#: 15  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: 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

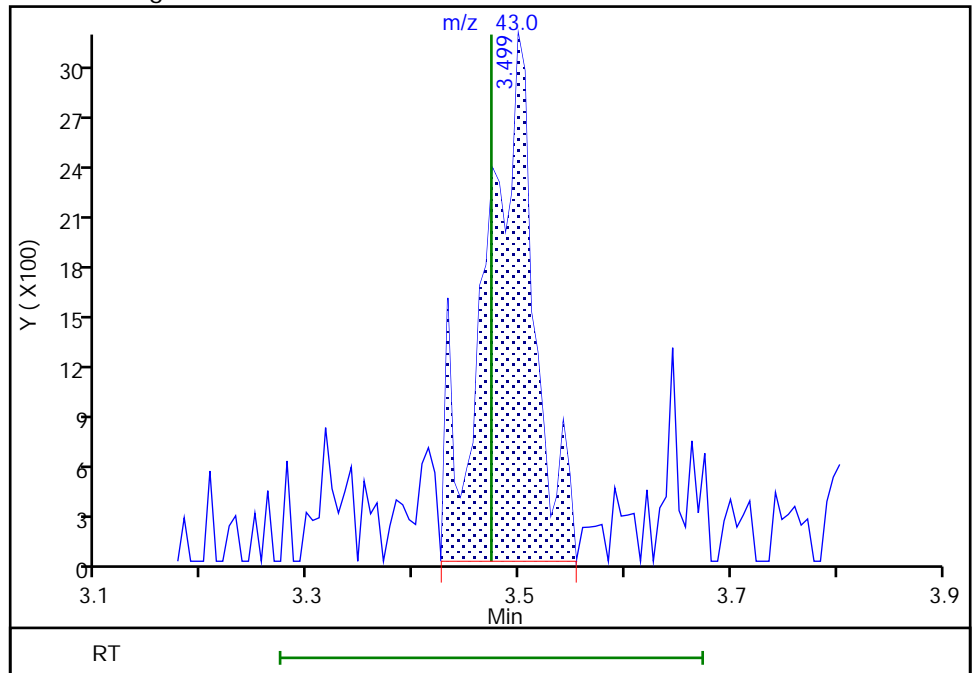
RT: 3.50  
Area: 5122  
Amount: 4.527779  
Amount Units: ng

Processing Integration Results



RT: 3.50  
Area: 10036  
Amount: 8.871690  
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 28-Jan-2020 09:00:22  
Audit Action: Manually Integrated

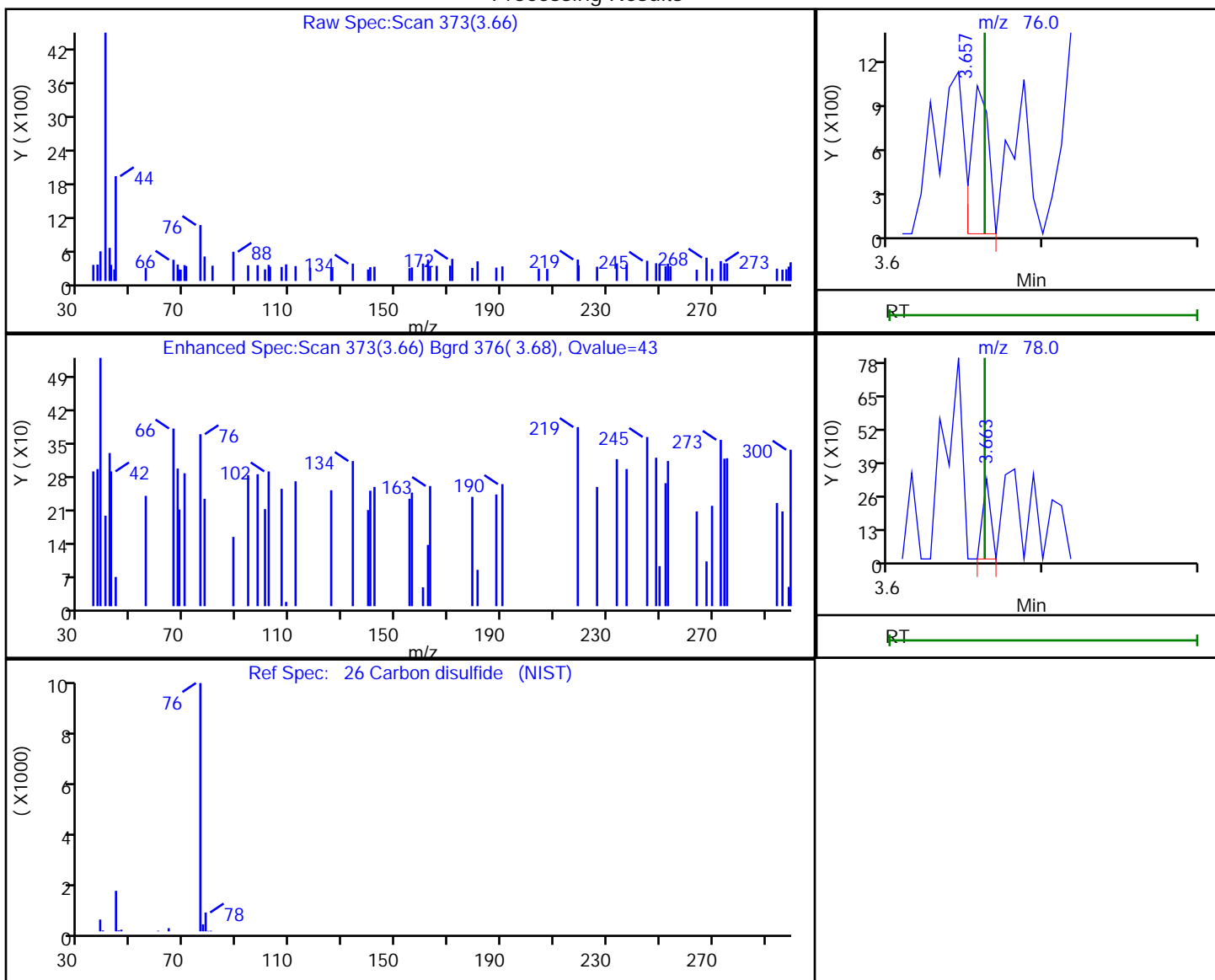
Audit Reason: Poor chromatography

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012515.D  
 Injection Date: 25-Jan-2020 17:05:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-8 Lab Sample ID: 180-101459-8  
 Client ID: HD-COD-SW-7-0/1-0  
 Operator ID: 433269 ALS Bottle#: 9 Worklist Smp#: 15  
 Purge Vol: 5.000 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
3.66	76.00	777	0.155619
3.66	78.00	116	

Reviewer: bowieh, 28-Jan-2020 09:36:56

Audit Action: Marked Compound Undetected

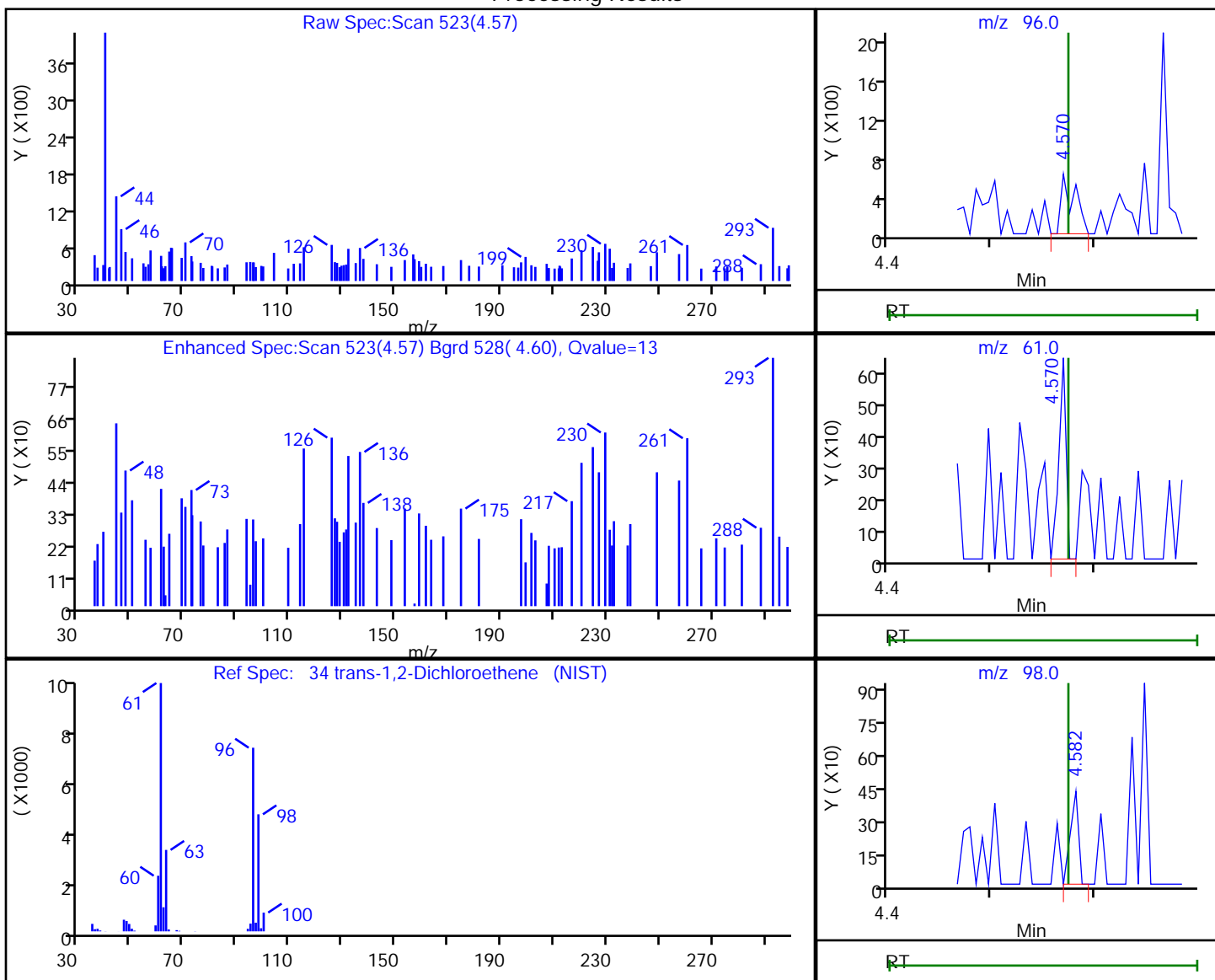
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012515.D  
Injection Date: 25-Jan-2020 17:05:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-8 Lab Sample ID: 180-101459-8  
Client ID: HD-COD-SW-7-0/1-0  
Operator ID: 433269 ALS Bottle#: 9 Worklist Smp#: 15  
Purge Vol: 5.000 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
4.57	96.00	556	0.220368
4.57	61.00	314	
4.58	98.00	233	

Reviewer: bowieh, 28-Jan-2020 09:37:00

Audit Action: Marked Compound Undetected

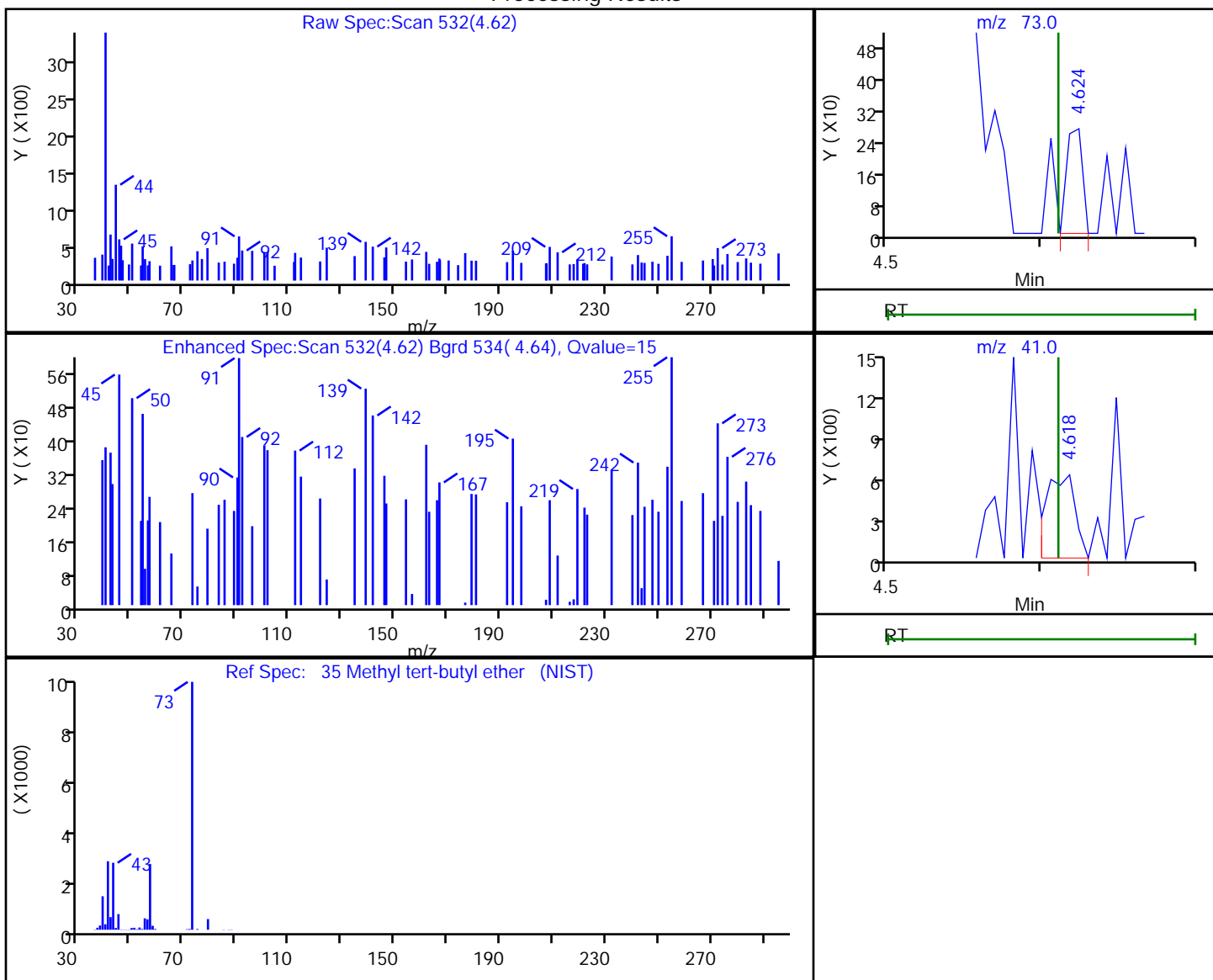
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012515.D  
 Injection Date: 25-Jan-2020 17:05:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-8 Lab Sample ID: 180-101459-8  
 Client ID: HD-COD-SW-7-0/1-0  
 Operator ID: 433269 ALS Bottle#: 9 Worklist Smp#: 15  
 Purge Vol: 5.000 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
4.62	73.00	193	0.039486
4.62	41.00	788	

Reviewer: bowieh, 28-Jan-2020 09:37:01

Audit Action: Marked Compound Undetected

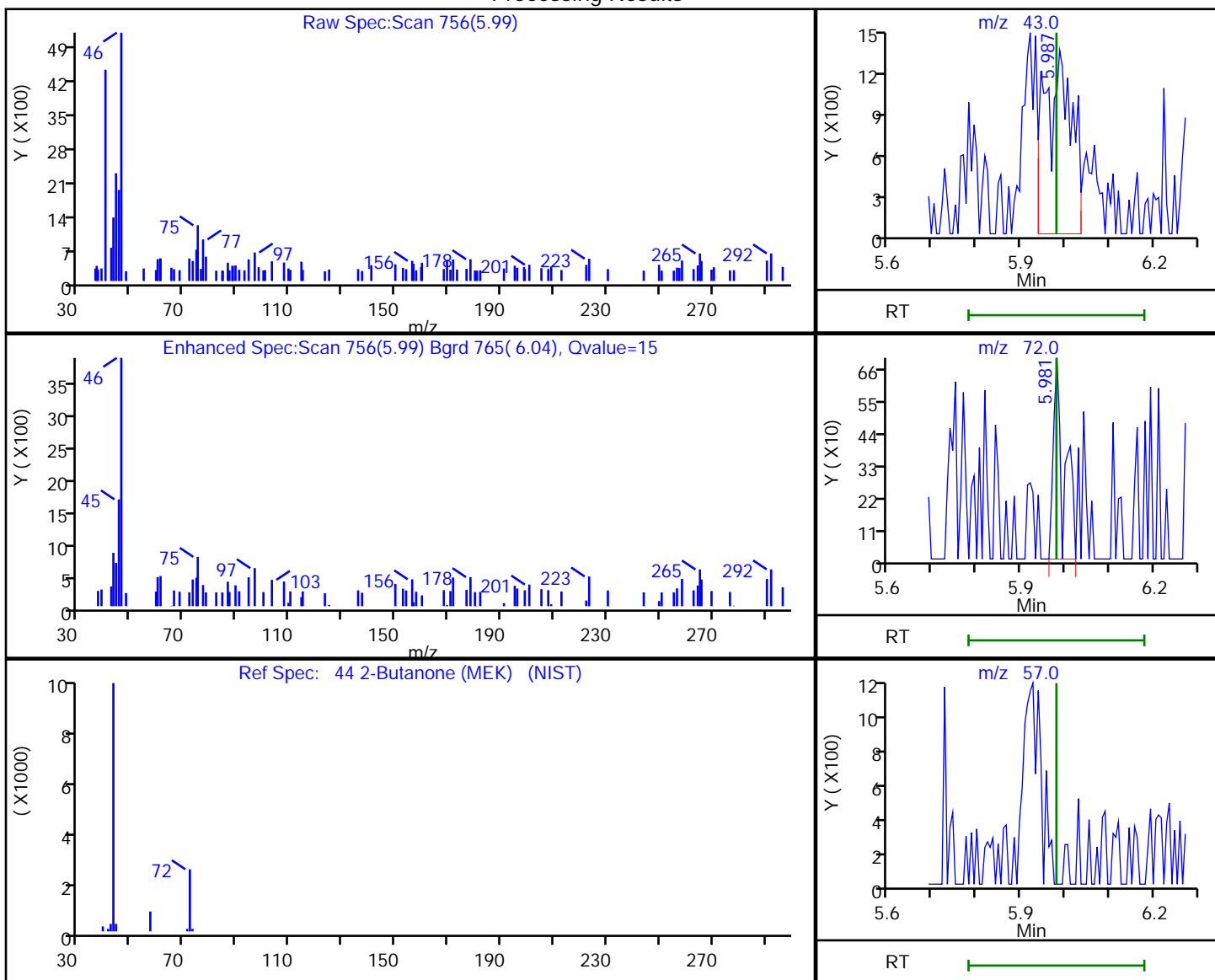
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012515.D  
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 Lims ID: 180-101459-B-8 Lab Sample ID: 180-101459-8  
 Client ID: HD-COD-SW-7-0/1-0  
 Operator ID: 433269 ALS Bottle#: 9 Worklist Smp#: 15  
 Purge Vol: 5.000 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
5.99	43.00	5614	3.945389
5.98	72.00	1189	
5.98	57.00	0	

Reviewer: bowieh, 28-Jan-2020 09:37:05

Audit Action: Marked Compound Undetected

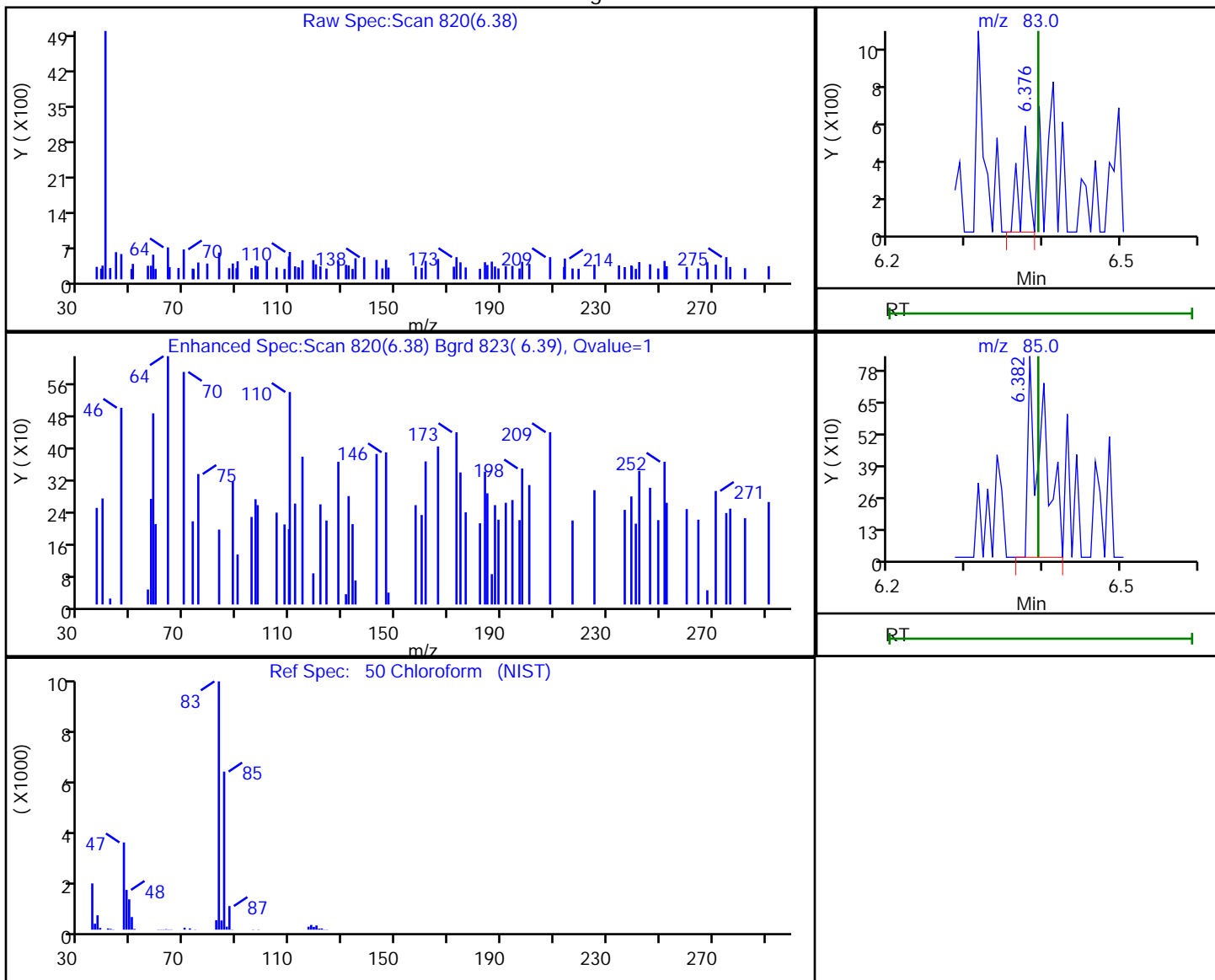
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012515.D  
Injection Date: 25-Jan-2020 17:05:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-8 Lab Sample ID: 180-101459-8  
Client ID: HD-COD-SW-7-0/1-0  
Operator ID: 433269 ALS Bottle#: 9 Worklist Smp#: 15  
Purge Vol: 5.000 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
6.38	83.00	395	-3.817445
6.38	85.00	1125	

Reviewer: bowieh, 28-Jan-2020 09:37:06

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

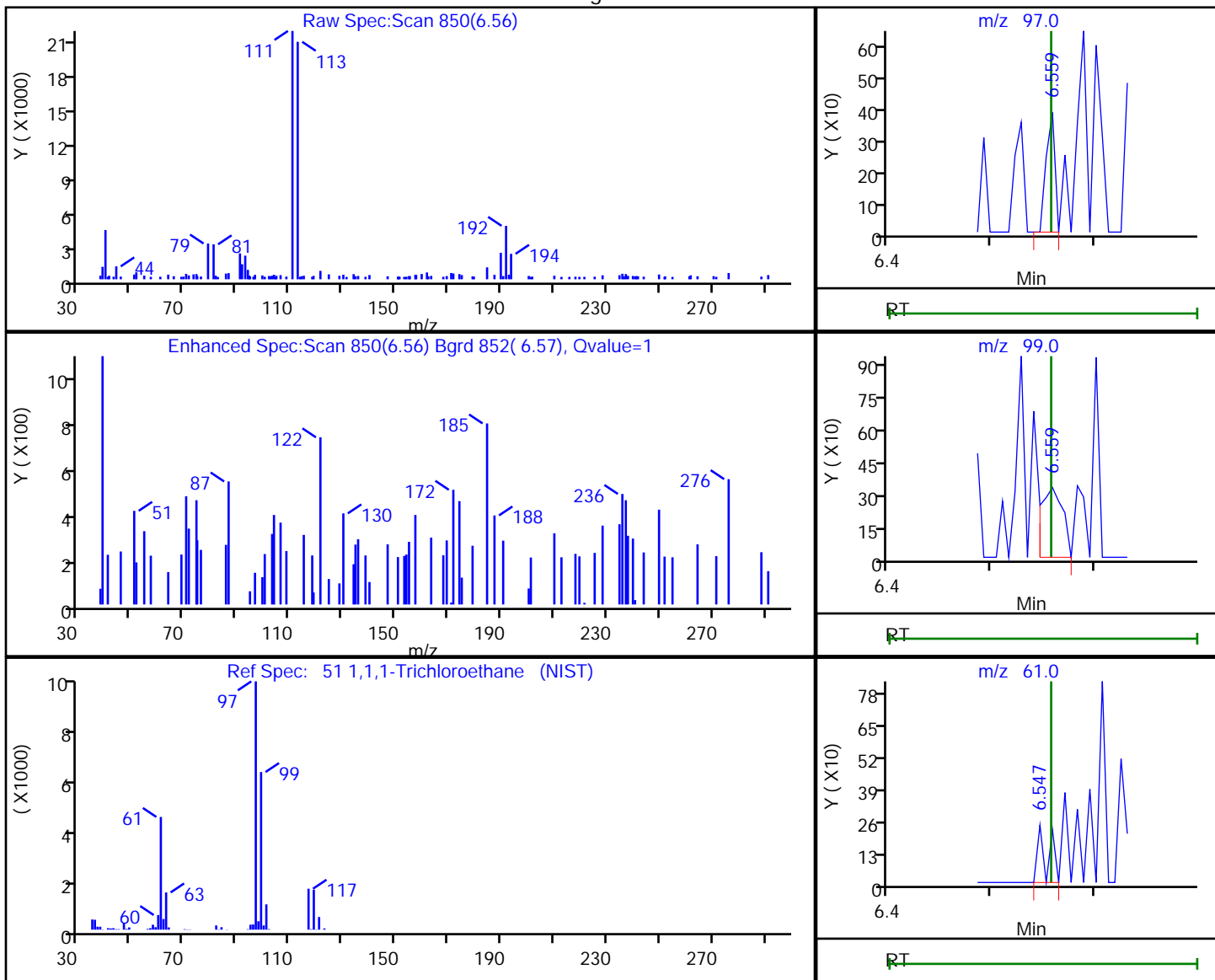


Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012515.D  
 Injection Date: 25-Jan-2020 17:05:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-8 Lab Sample ID: 180-101459-8  
 Client ID: HD-COD-SW-7-0/1-0  
 Operator ID: 433269 ALS Bottle#: 9 Worklist Smp#: 15  
 Purge Vol: 5.000 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
6.56	97.00	229	0.073231
6.56	99.00	481	
6.55	61.00	165	

Reviewer: bowieh, 28-Jan-2020 09:37:07

Audit Action: Marked Compound Undetected

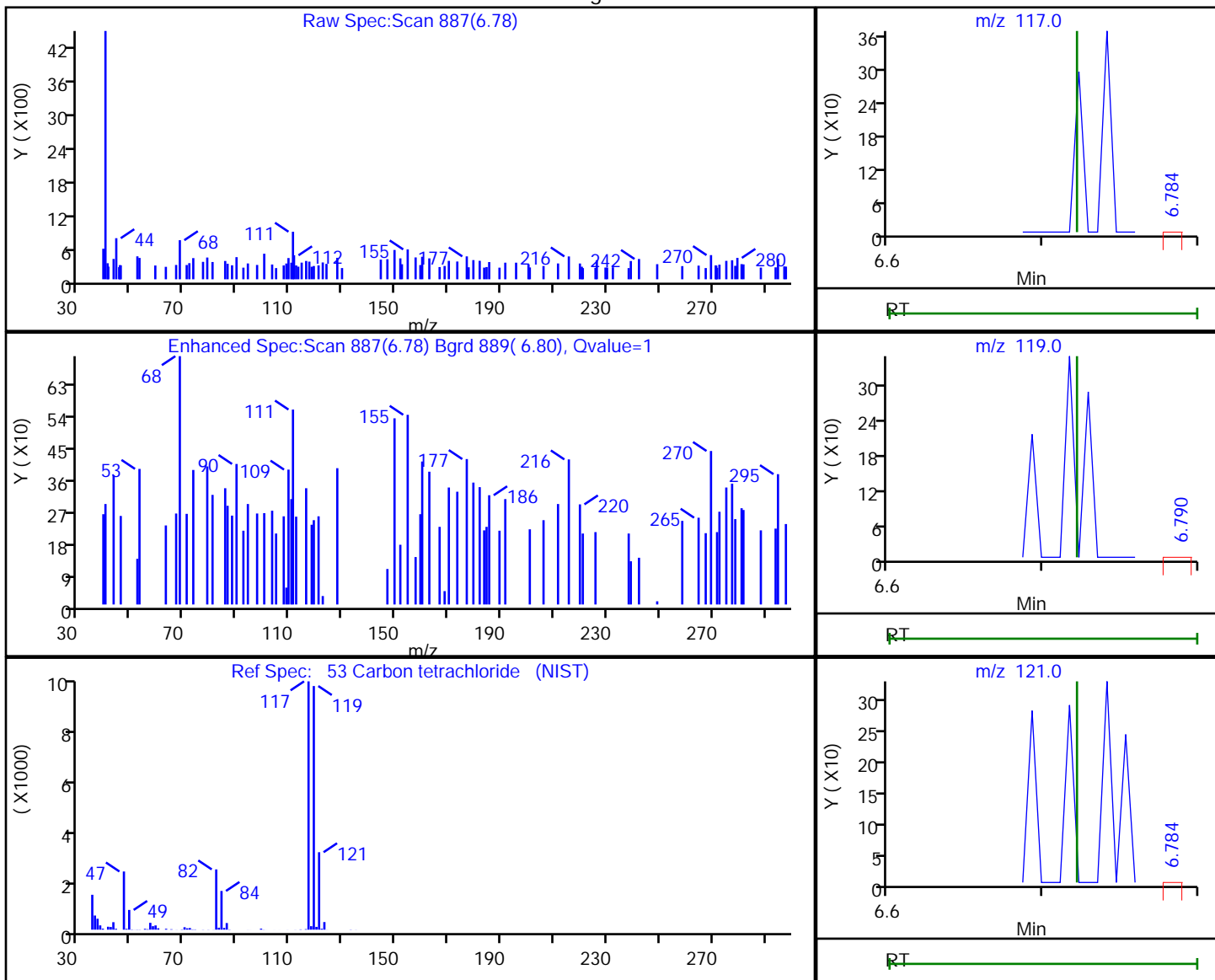
Audit Reason: Invalid Compound ID

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Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012515.D  
Injection Date: 25-Jan-2020 17:05:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-8 Lab Sample ID: 180-101459-8  
Client ID: HD-COD-SW-7-0/1-0  
Operator ID: 433269 ALS Bottle#: 9 Worklist Smp#: 15  
Purge Vol: 5.000 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
6.78	117.00	116	0.044108
6.79	119.00	314	
6.78	121.00	92	

Reviewer: bowieh, 28-Jan-2020 09:37:08

Audit Action: Marked Compound Undetected

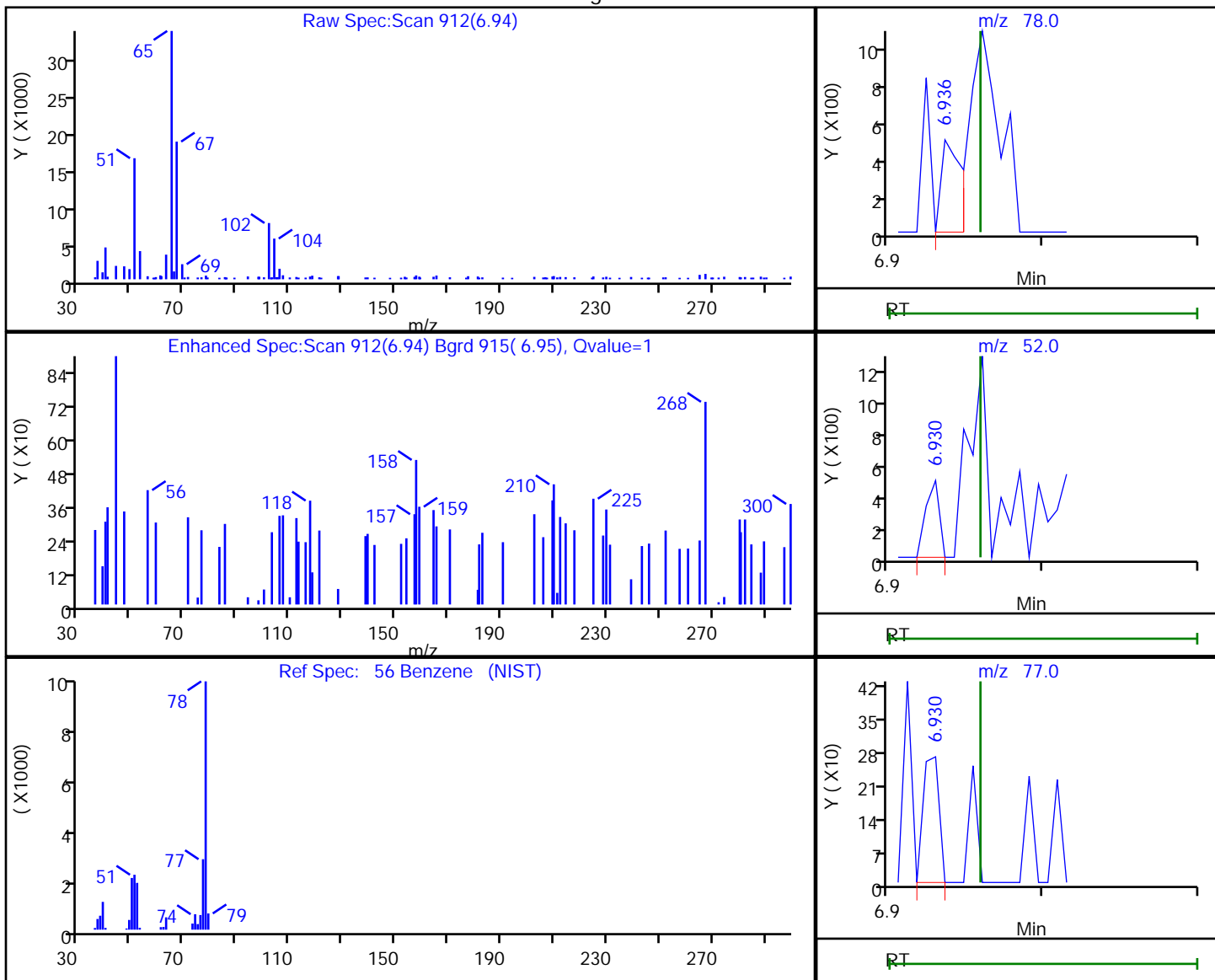
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Lims ID: 180-101459-B-8 Lab Sample ID: 180-101459-8  
 Client ID: HD-COD-SW-7-0/1-0  
 Operator ID: 433269 ALS Bottle#: 9 Worklist Smp#: 15  
 Purge Vol: 5.000 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
6.94	78.00	454	0.045323
6.93	52.00	293	
6.93	77.00	190	

Reviewer: bowieh, 28-Jan-2020 09:37:09

Audit Action: Marked Compound Undetected

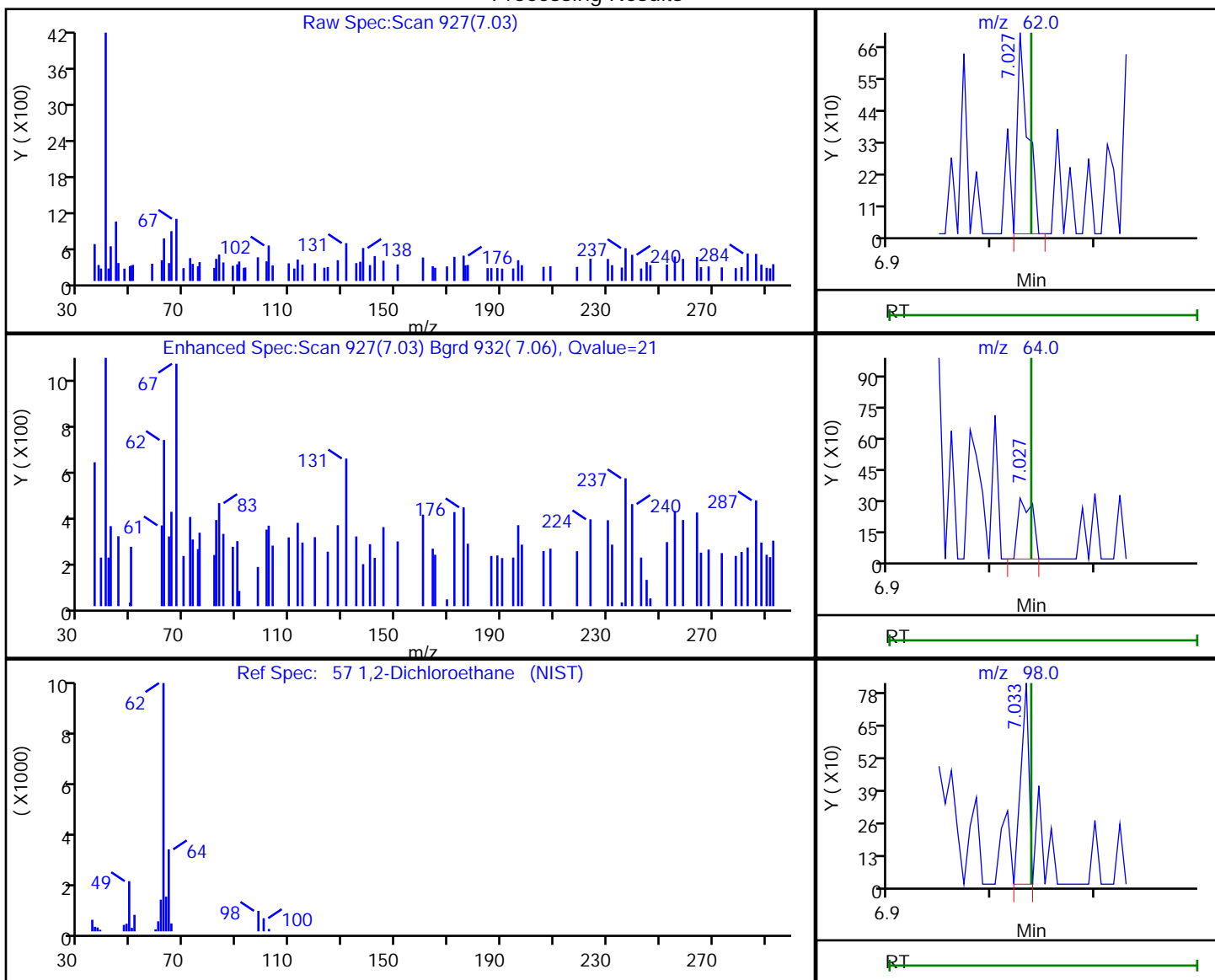
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012515.D  
 Injection Date: 25-Jan-2020 17:05:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-8 Lab Sample ID: 180-101459-8  
 Client ID: HD-COD-SW-7-0/1-0  
 Operator ID: 433269 ALS Bottle#: 9 Worklist Smp#: 15  
 Purge Vol: 5.000 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
7.03	62.00	500	0.181232
7.03	64.00	290	
7.03	98.00	442	

Reviewer: bowieh, 28-Jan-2020 09:37:11

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

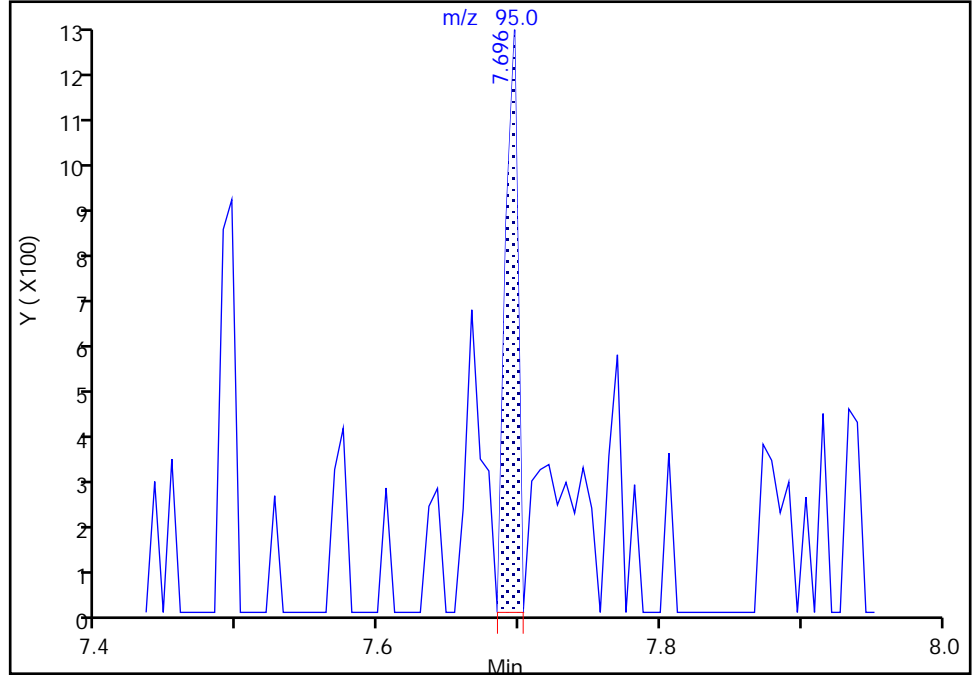
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Injection Date: 25-Jan-2020 17:05:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-8 Lab Sample ID: 180-101459-8  
Client ID: HD-COD-SW-7-0/1-0  
Operator ID: 433269 ALS Bottle#: 9 Worklist Smp#: 15  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: 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: 2

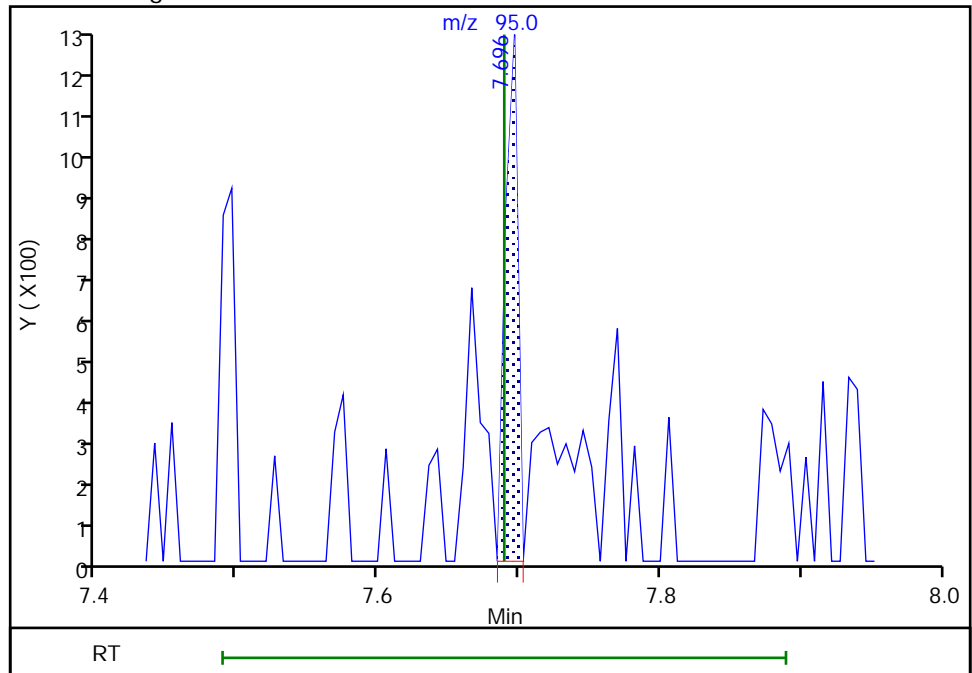
RT: 7.70  
Area: 773  
Amount: 0.481265  
Amount Units: ng

Processing Integration Results



RT: 7.70  
Area: 773  
Amount: 0.481265  
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 28-Jan-2020 09:37:12  
Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

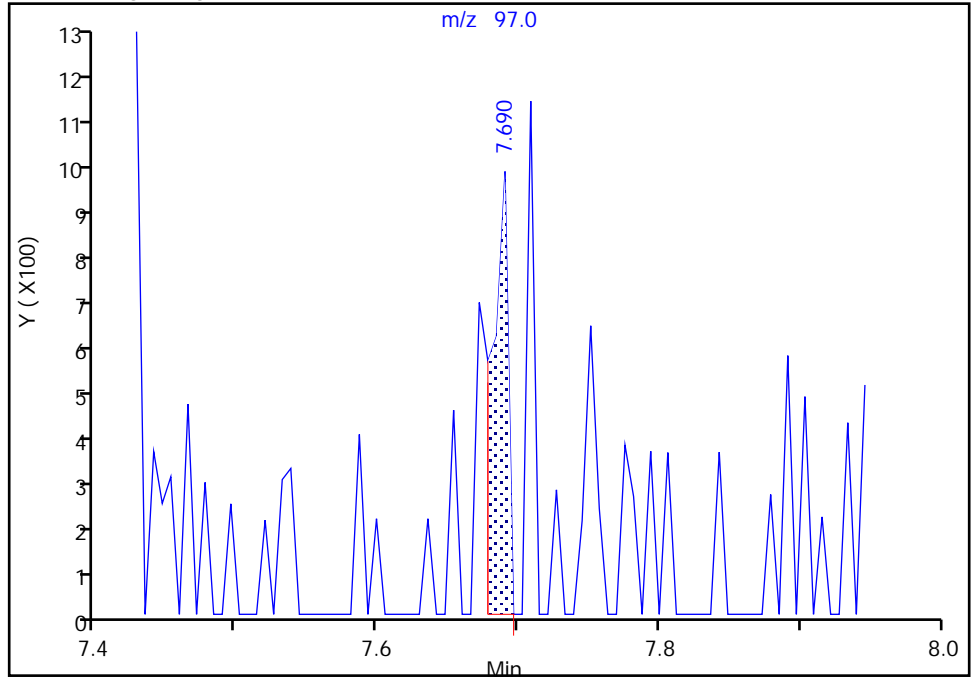
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Injection Date: 25-Jan-2020 17:05:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-8 Lab Sample ID: 180-101459-8  
Client ID: HD-COD-SW-7-0/1-0  
Operator ID: 433269 ALS Bottle#: 9 Worklist Smp#: 15  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: 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: 3

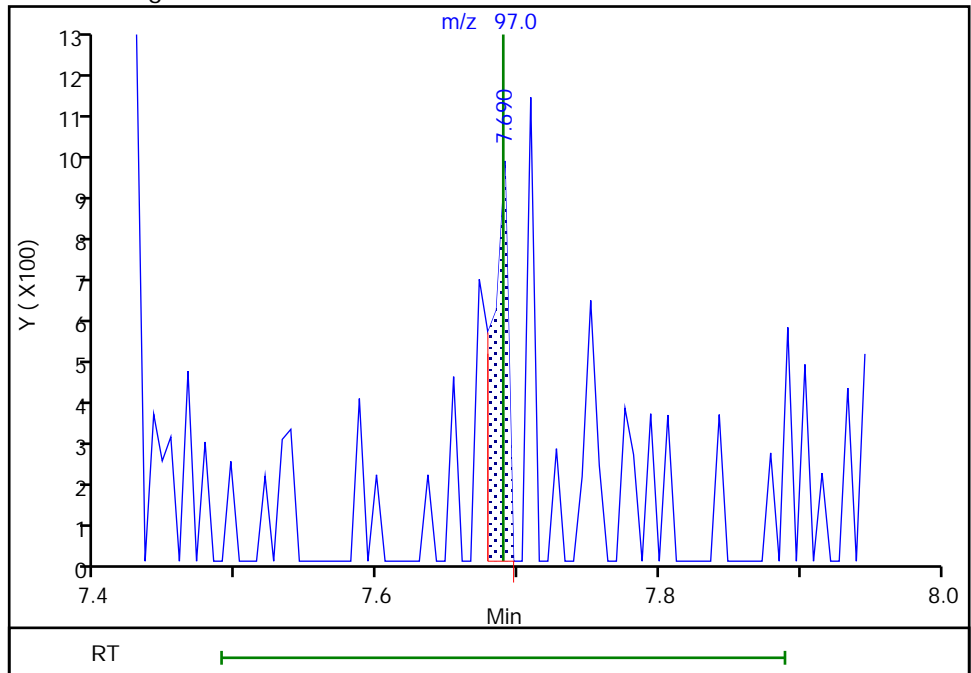
RT: 7.69  
Area: 763  
Amount: 0.481265  
Amount Units: ng

Processing Integration Results



RT: 7.69  
Area: 763  
Amount: 0.481265  
Amount Units: ng

Manual Integration Results

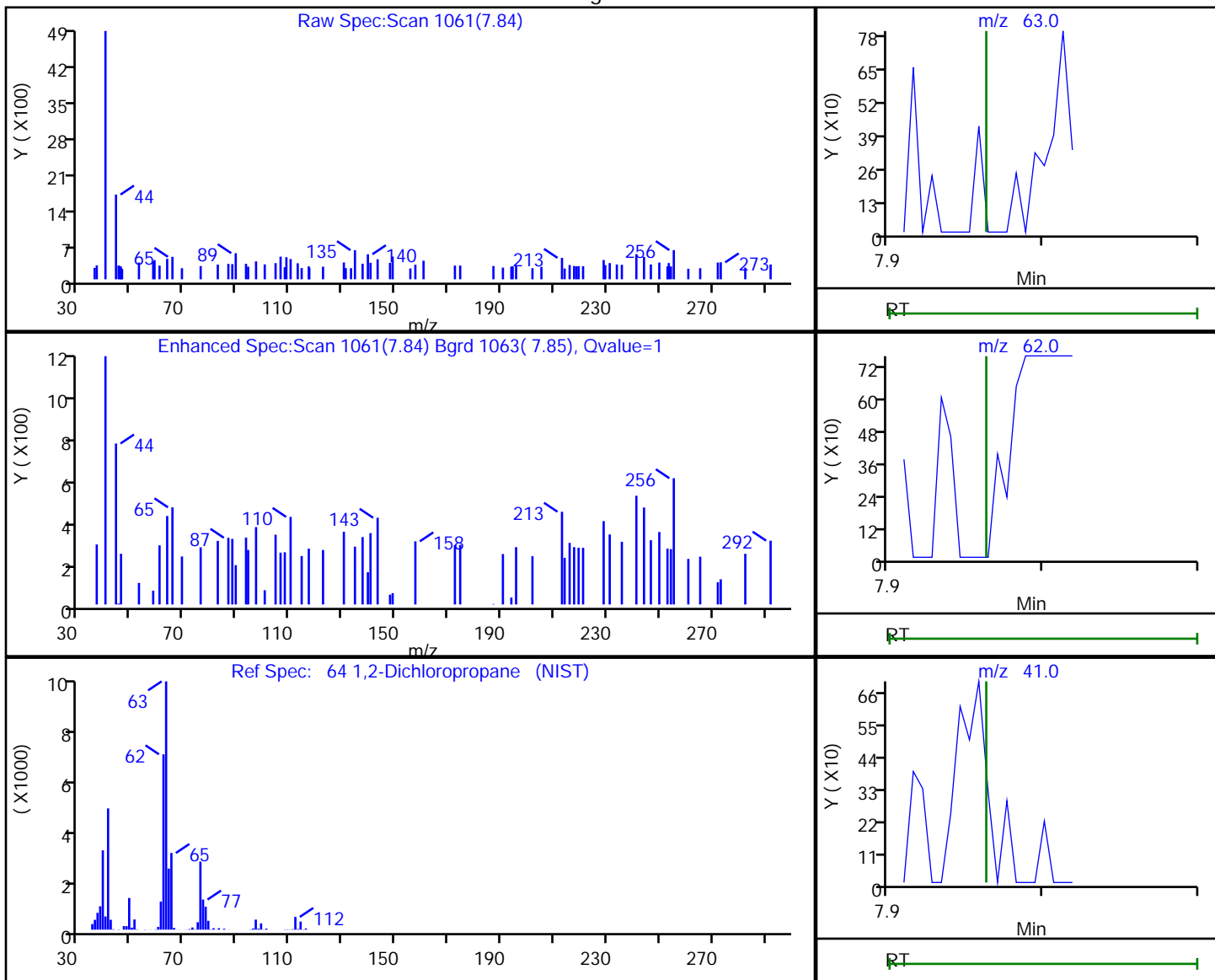


Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012515.D  
 Injection Date: 25-Jan-2020 17:05:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-8 Lab Sample ID: 180-101459-8  
 Client ID: HD-COD-SW-7-0/1-0  
 Operator ID: 433269 ALS Bottle#: 9 Worklist Smp#: 15  
 Purge Vol: 5.000 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
7.84	63.00	242	0.103205
7.83	62.00	235	
7.85	41.00	191	

Reviewer: bowieh, 28-Jan-2020 09:37:14

Audit Action: Marked Compound Undetected

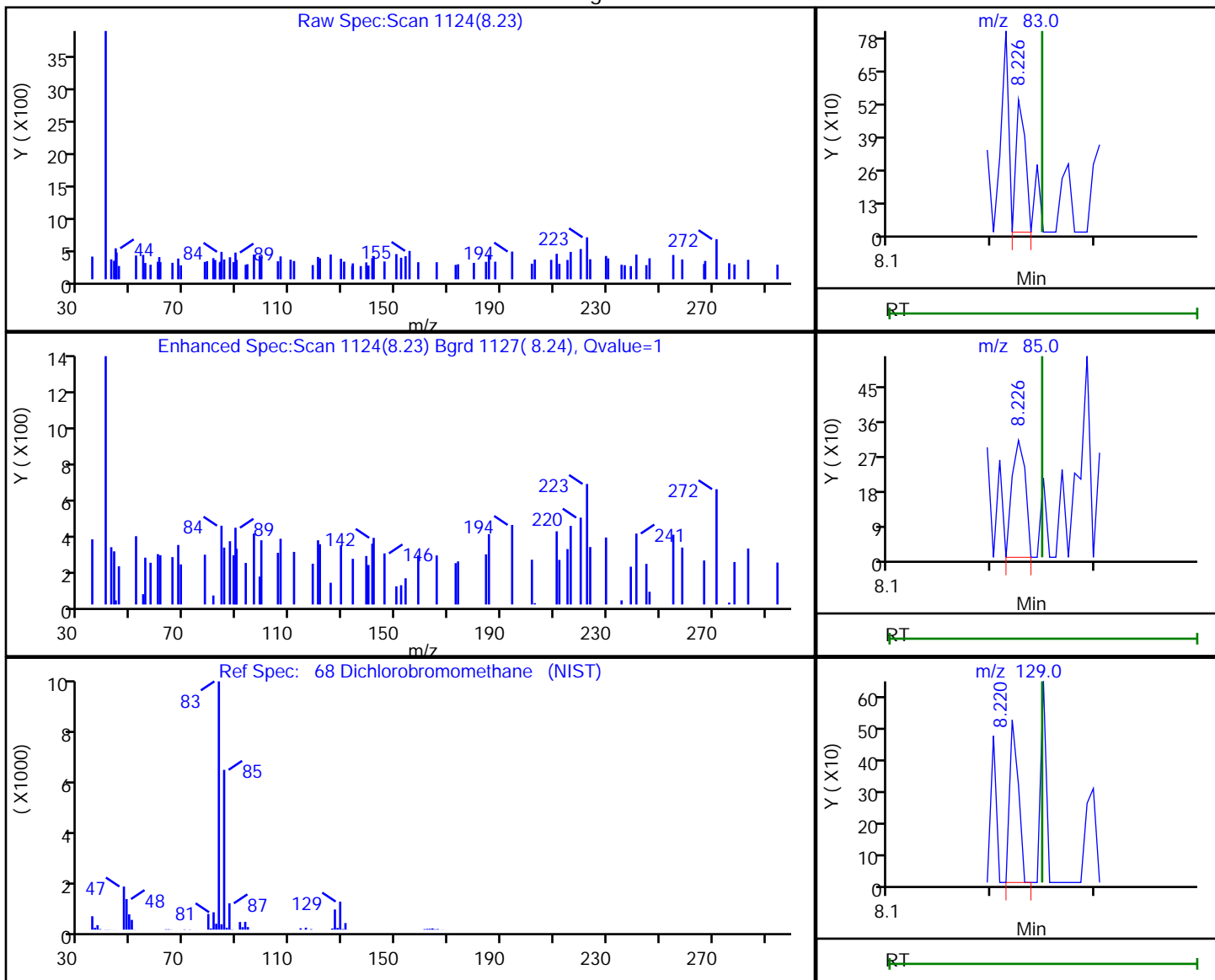
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012515.D  
 Injection Date: 25-Jan-2020 17:05:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-8 Lab Sample ID: 180-101459-8  
 Client ID: HD-COD-SW-7-0/1-0  
 Operator ID: 433269 ALS Bottle#: 9 Worklist Smp#: 15  
 Purge Vol: 5.000 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
8.23	83.00	333	0.151926
8.23	85.00	274	
8.22	129.00	307	

Reviewer: bowieh, 28-Jan-2020 09:37:15

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

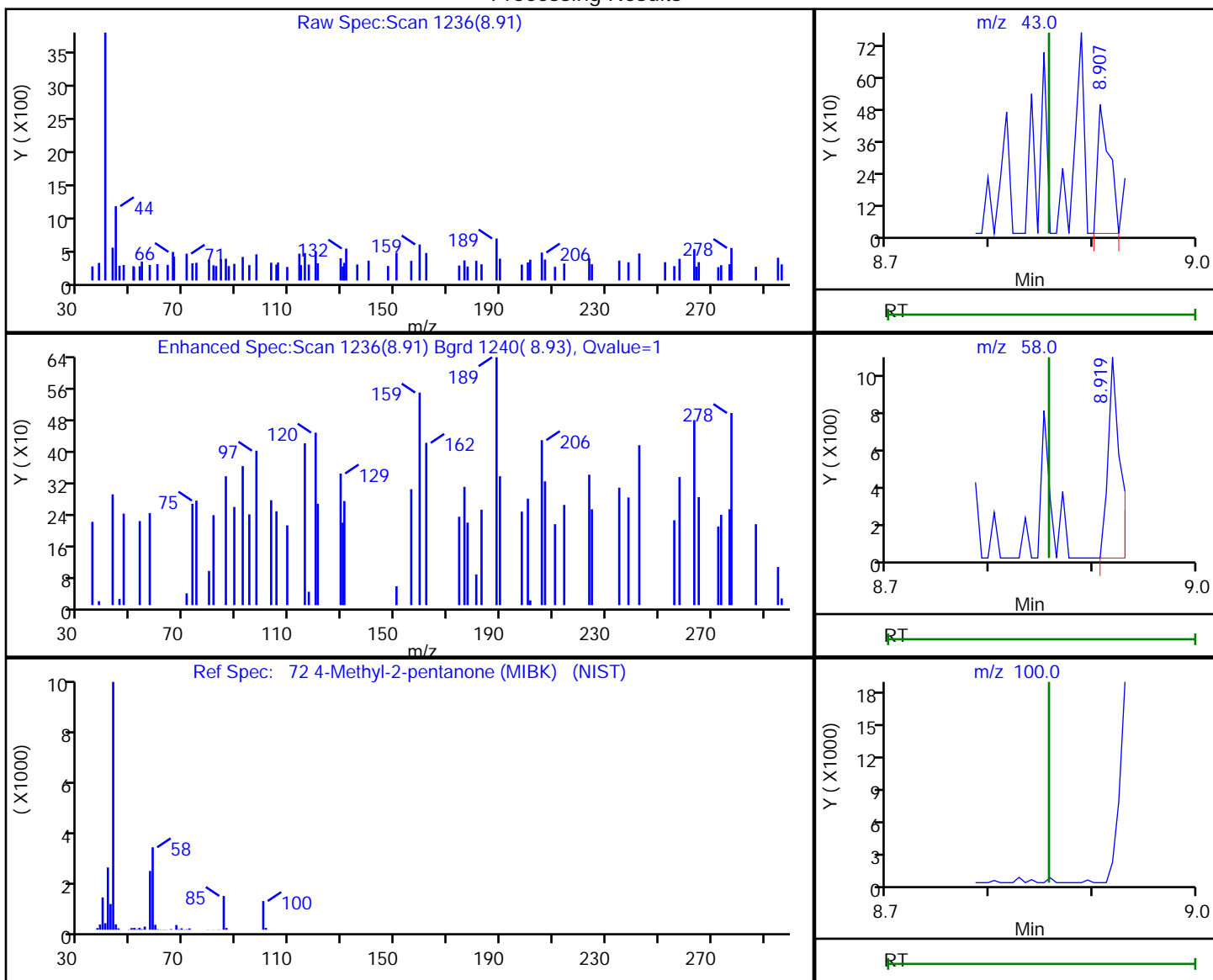


Eurofins TestAmerica, Pittsburgh

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 Injection Date: 25-Jan-2020 17:05:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-8 Lab Sample ID: 180-101459-8  
 Client ID: HD-COD-SW-7-0/1-0  
 Operator ID: 433269 ALS Bottle#: 9 Worklist Smp#: 15  
 Purge Vol: 5.000 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
8.91	43.00	398	0.182065
8.92	58.00	825	
8.86	100.00	0	

Reviewer: bowieh, 28-Jan-2020 09:37:17

Audit Action: Marked Compound Undetected

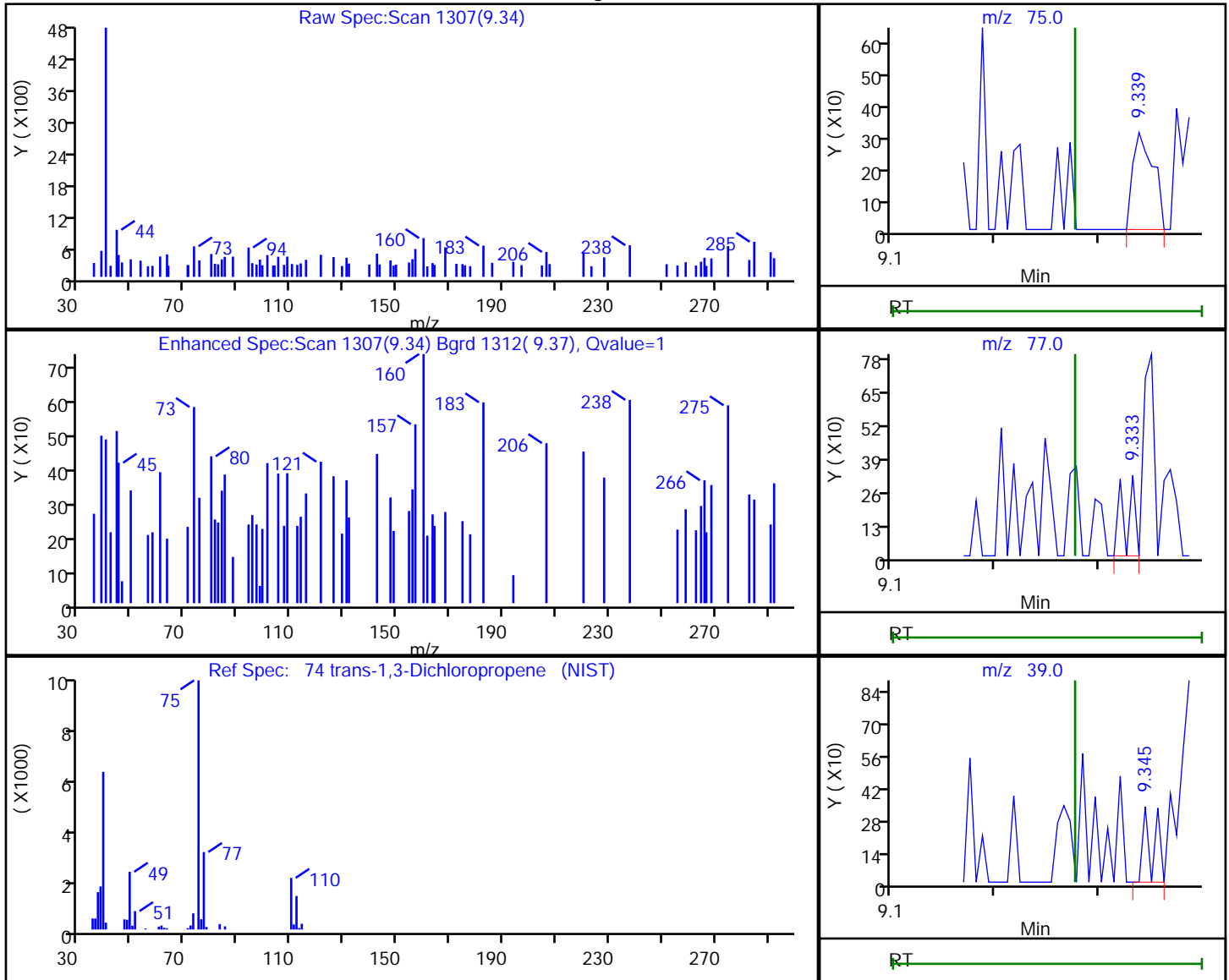
Audit Reason: Invalid Compound ID

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 Injection Date: 25-Jan-2020 17:05:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-8 Lab Sample ID: 180-101459-8  
 Client ID: HD-COD-SW-7-0/1-0  
 Operator ID: 433269 ALS Bottle#: 9 Worklist Smp#: 15  
 Purge Vol: 5.000 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
9.34	75.00	429	0.168881
9.33	77.00	226	
9.35	39.00	239	

Reviewer: bowieh, 28-Jan-2020 09:37:19

Audit Action: Marked Compound Undetected

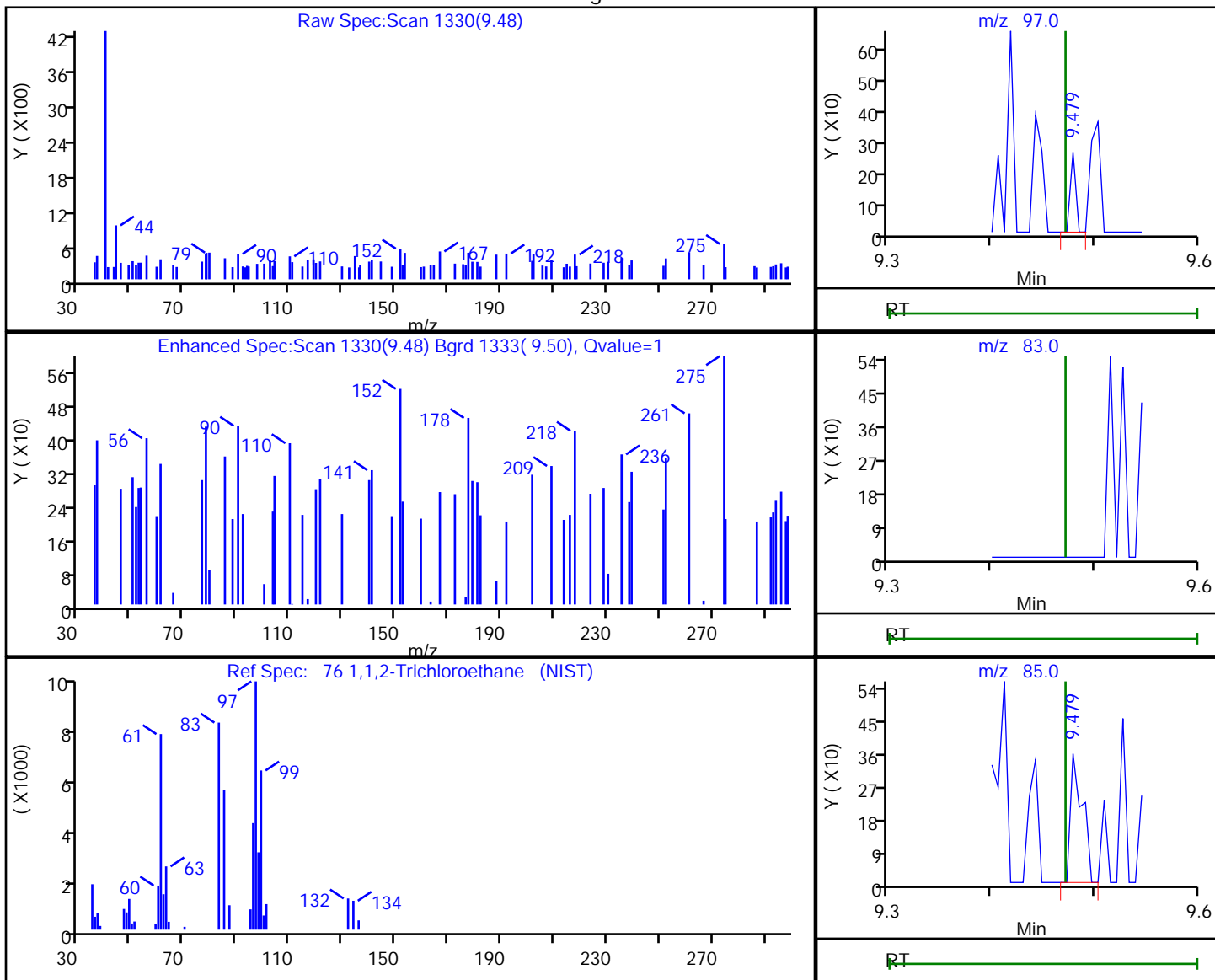
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012515.D  
Injection Date: 25-Jan-2020 17:05:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-8 Lab Sample ID: 180-101459-8  
Client ID: HD-COD-SW-7-0/1-0  
Operator ID: 433269 ALS Bottle#: 9 Worklist Smp#: 15  
Purge Vol: 5.000 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	96	0.045414
9.48	85.00	288	
9.47	83.00	0	

Reviewer: bowieh, 28-Jan-2020 09:37:20

Audit Action: Marked Compound Undetected

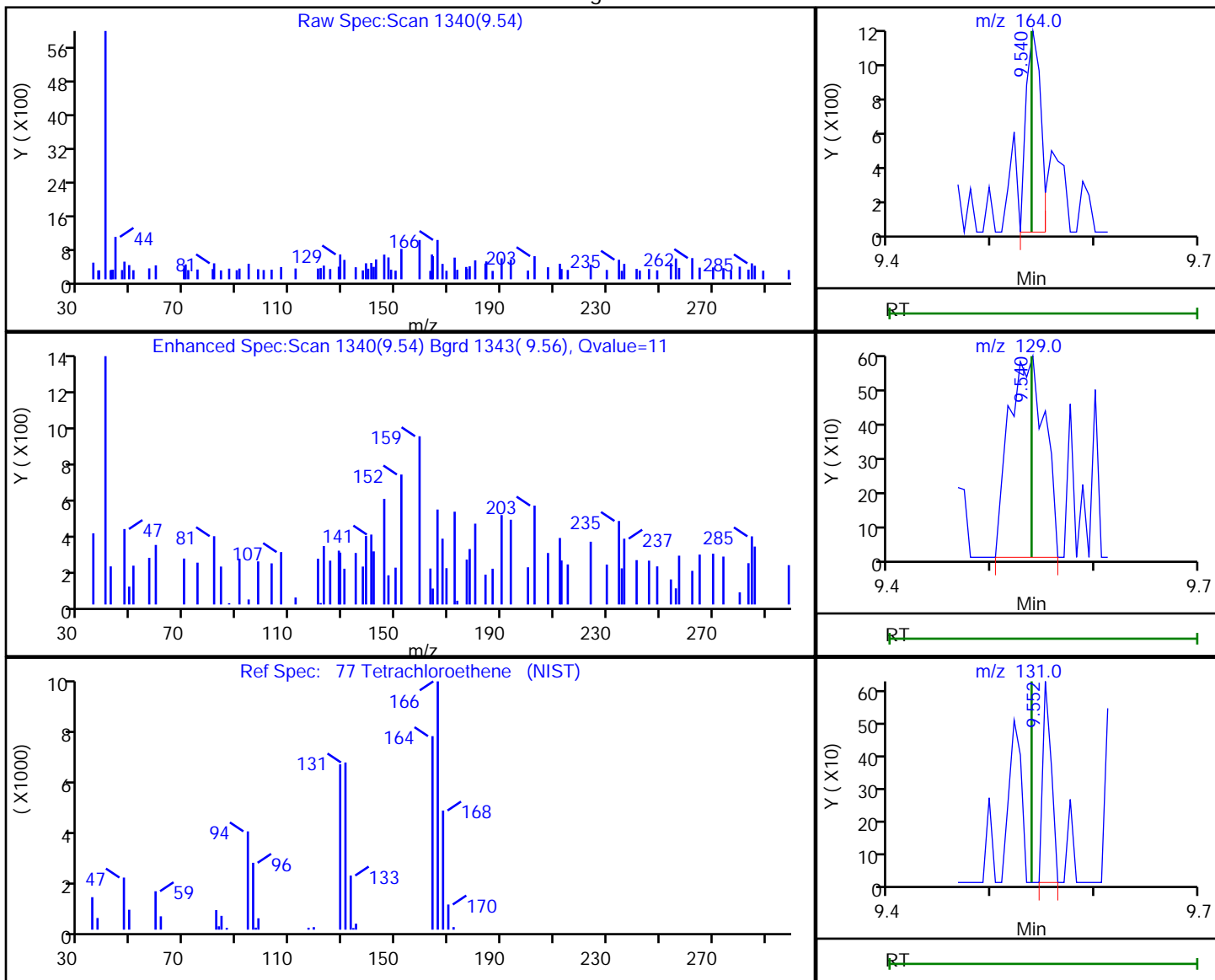
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012515.D  
Injection Date: 25-Jan-2020 17:05:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-8 Lab Sample ID: 180-101459-8  
Client ID: HD-COD-SW-7-0/1-0  
Operator ID: 433269 ALS Bottle#: 9 Worklist Smp#: 15  
Purge Vol: 5.000 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	1144	0.398531
9.54	129.00	1427	
9.55	131.00	359	

Reviewer: bowieh, 28-Jan-2020 09:37:21

Audit Action: Marked Compound Undetected

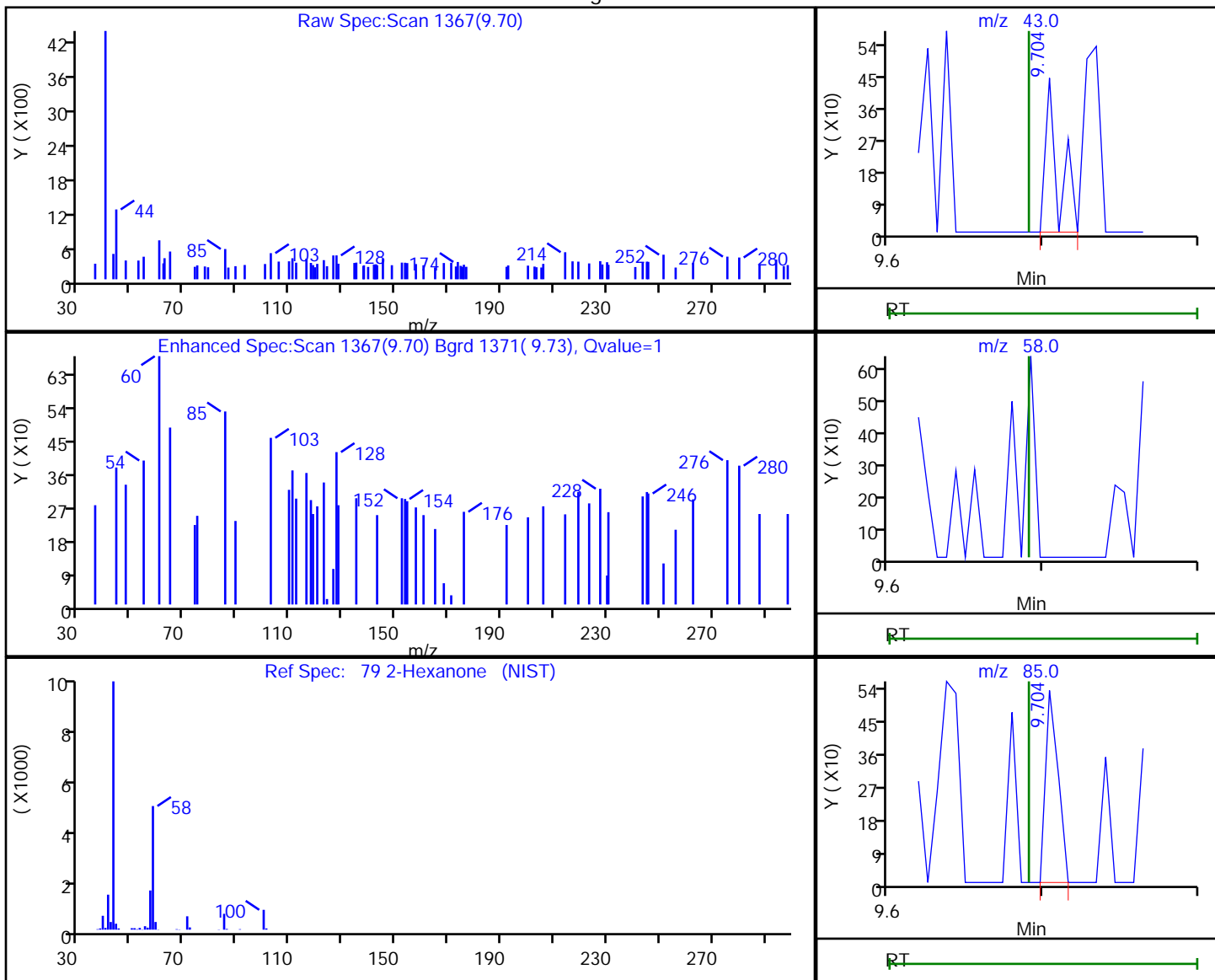
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012515.D  
 Injection Date: 25-Jan-2020 17:05:30 Instrument ID: CHHP6  
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 Client ID: HD-COD-SW-7-0/1-0  
 Operator ID: 433269 ALS Bottle#: 9 Worklist Smp#: 15  
 Purge Vol: 5.000 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
9.70	43.00	259	0.137542
9.69	58.00	0	
9.70	85.00	297	

Reviewer: bowieh, 28-Jan-2020 09:37:23

Audit Action: Marked Compound Undetected

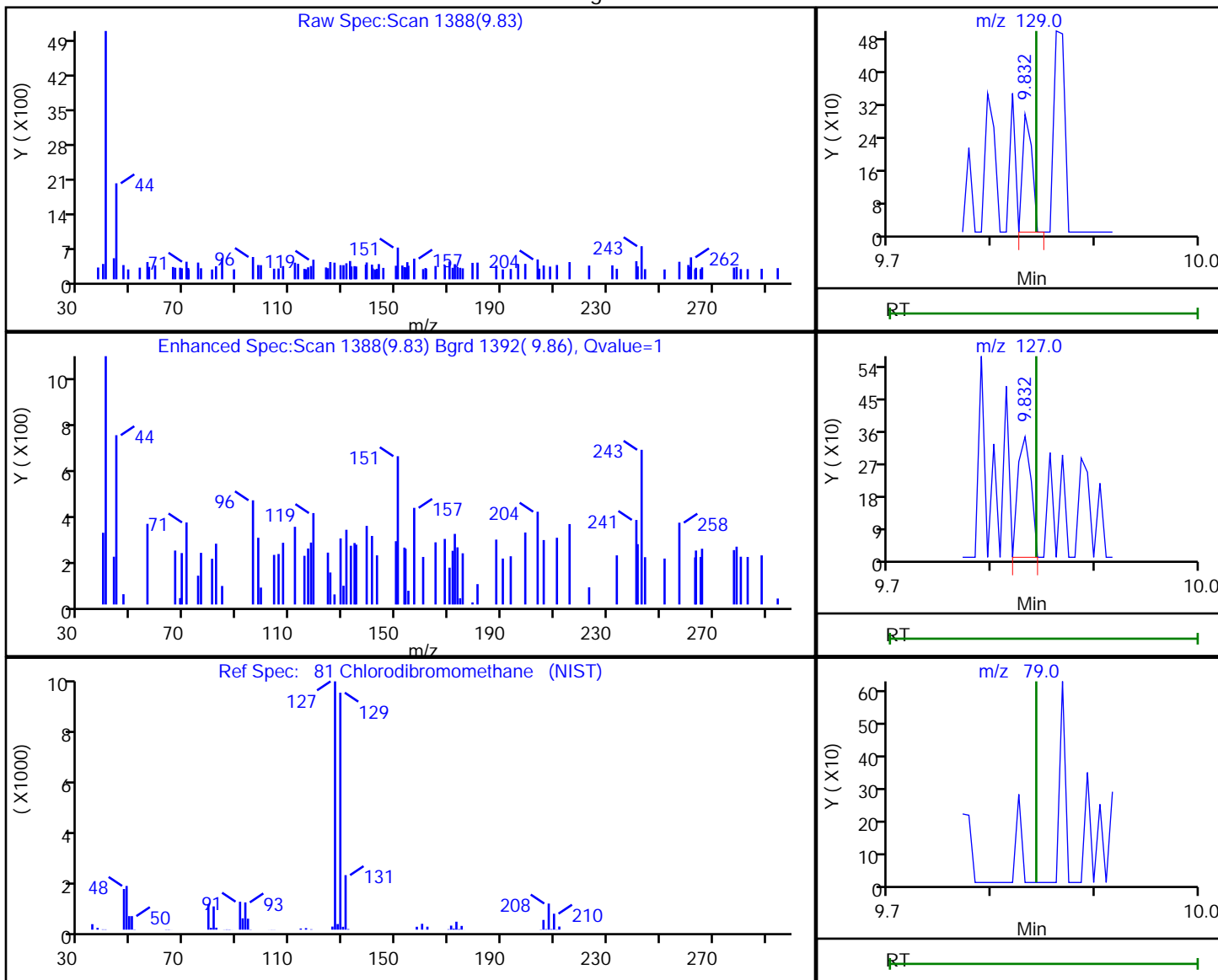
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Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012515.D  
 Injection Date: 25-Jan-2020 17:05:30 Instrument ID: CHHP6  
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 Client ID: HD-COD-SW-7-0/1-0  
 Operator ID: 433269 ALS Bottle#: 9 Worklist Smp#: 15  
 Purge Vol: 5.000 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
9.83	129.00	183	0.102501
9.83	127.00	301	
9.84	79.00	0	

Reviewer: bowieh, 28-Jan-2020 09:37:24

Audit Action: Marked Compound Undetected

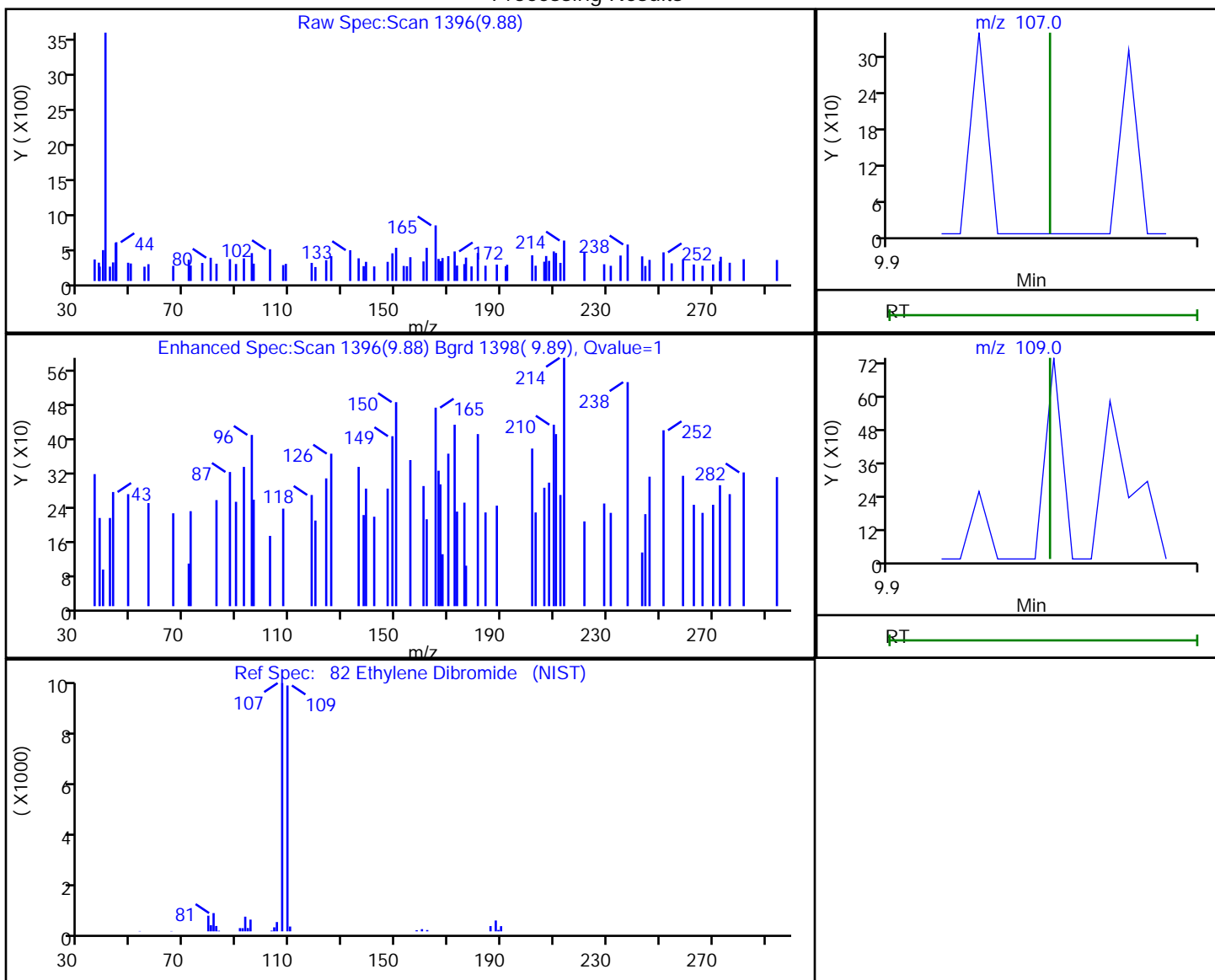
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012515.D  
 Injection Date: 25-Jan-2020 17:05:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-8 Lab Sample ID: 180-101459-8  
 Client ID: HD-COD-SW-7-0/1-0  
 Operator ID: 433269 ALS Bottle#: 9 Worklist Smp#: 15  
 Purge Vol: 5.000 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
9.88	107.00	83	0.039785
9.87	109.00	297	

Reviewer: bowieh, 28-Jan-2020 09:37:25

Audit Action: Marked Compound Undetected

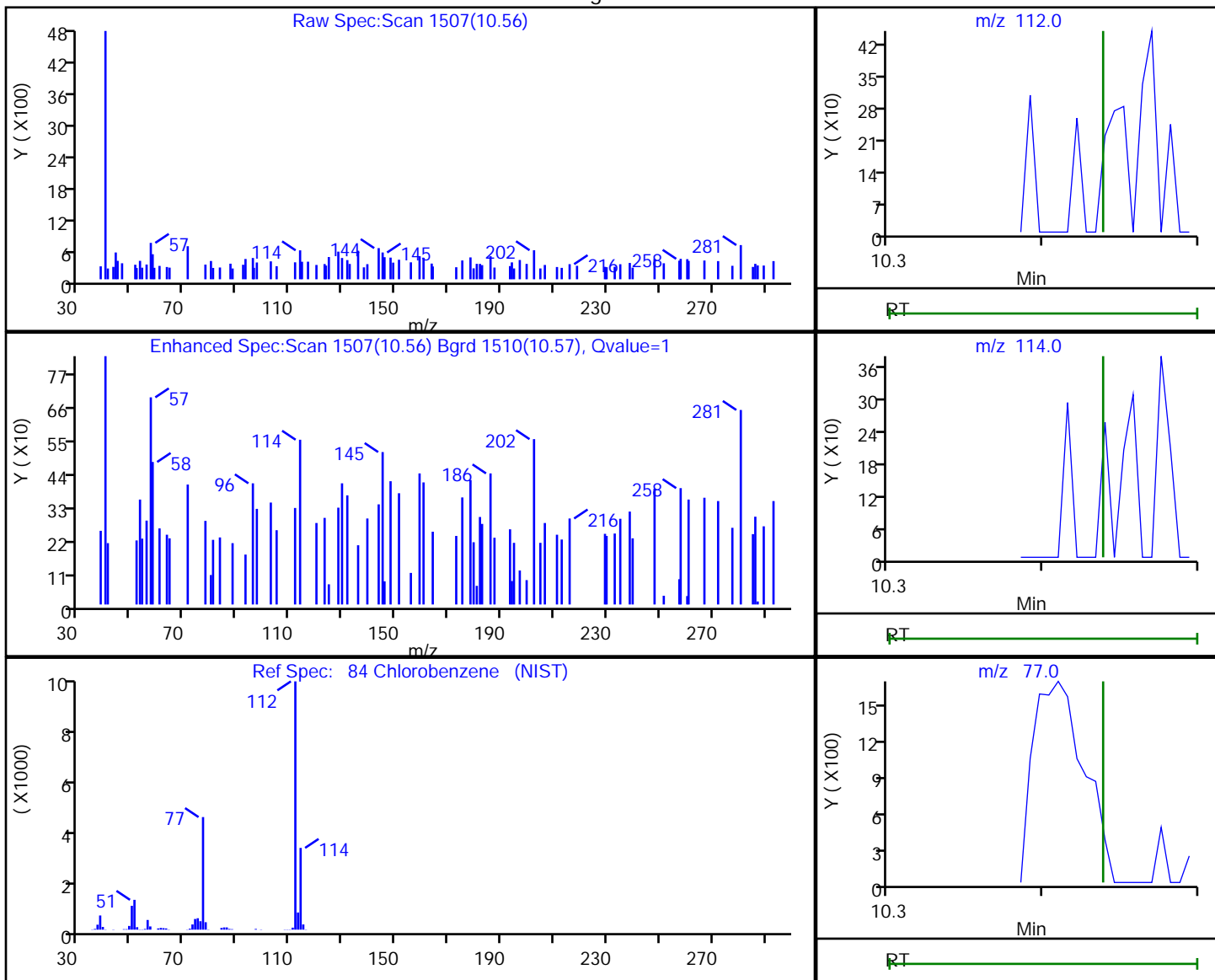
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012515.D  
 Injection Date: 25-Jan-2020 17:05:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-8 Lab Sample ID: 180-101459-8  
 Client ID: HD-COD-SW-7-0/1-0  
 Operator ID: 433269 ALS Bottle#: 9 Worklist Smp#: 15  
 Purge Vol: 5.000 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
10.56	112.00	209	0.026984
10.56	114.00	537	
10.57	77.00	340	

Reviewer: bowieh, 28-Jan-2020 09:37:27

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

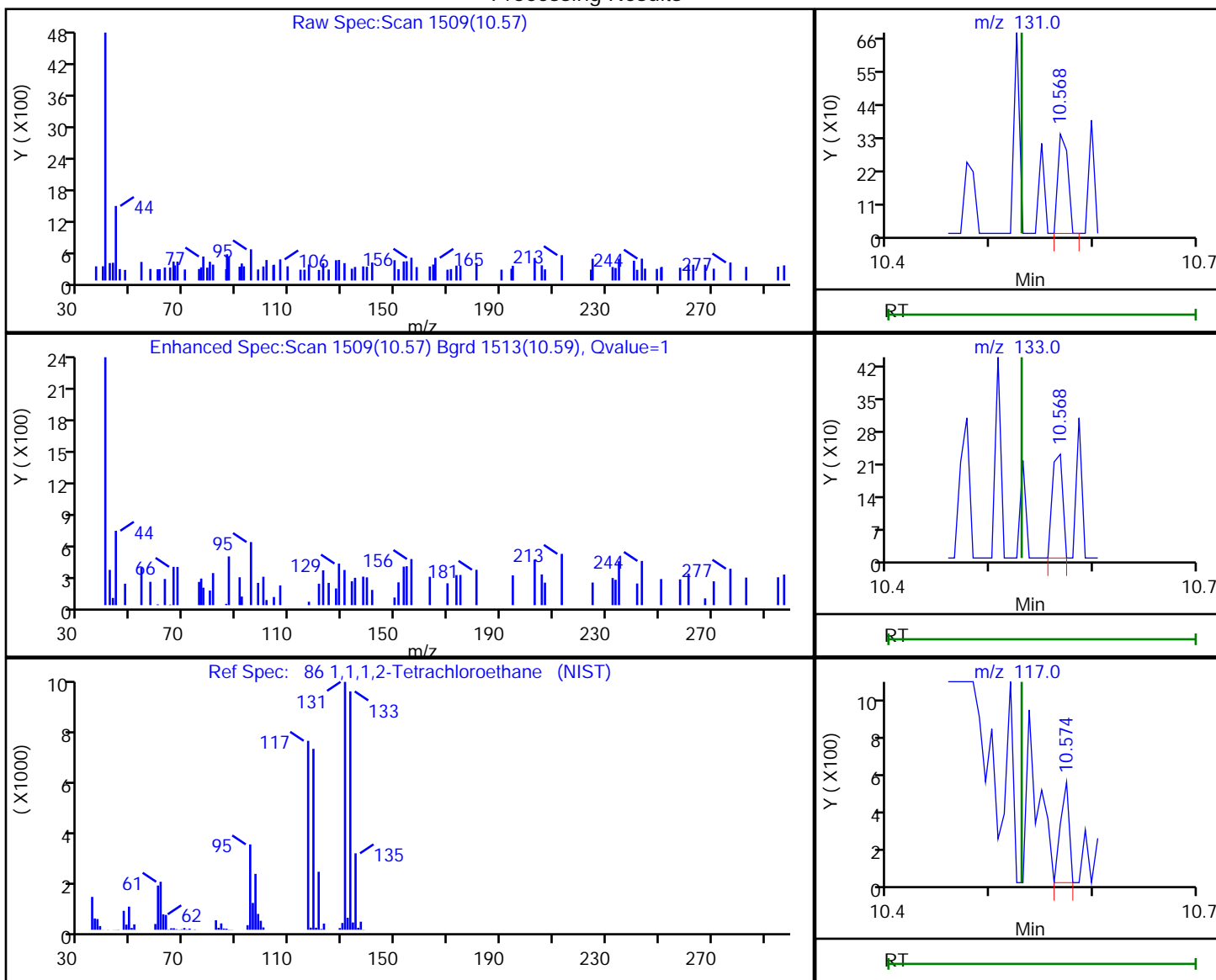


Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012515.D  
 Injection Date: 25-Jan-2020 17:05:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-8 Lab Sample ID: 180-101459-8  
 Client ID: HD-COD-SW-7-0/1-0  
 Operator ID: 433269 ALS Bottle#: 9 Worklist Smp#: 15  
 Purge Vol: 5.000 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
10.57	131.00	223	0.098019
10.57	133.00	159	
10.57	117.00	303	

Reviewer: bowieh, 28-Jan-2020 09:37:28

Audit Action: Marked Compound Undetected

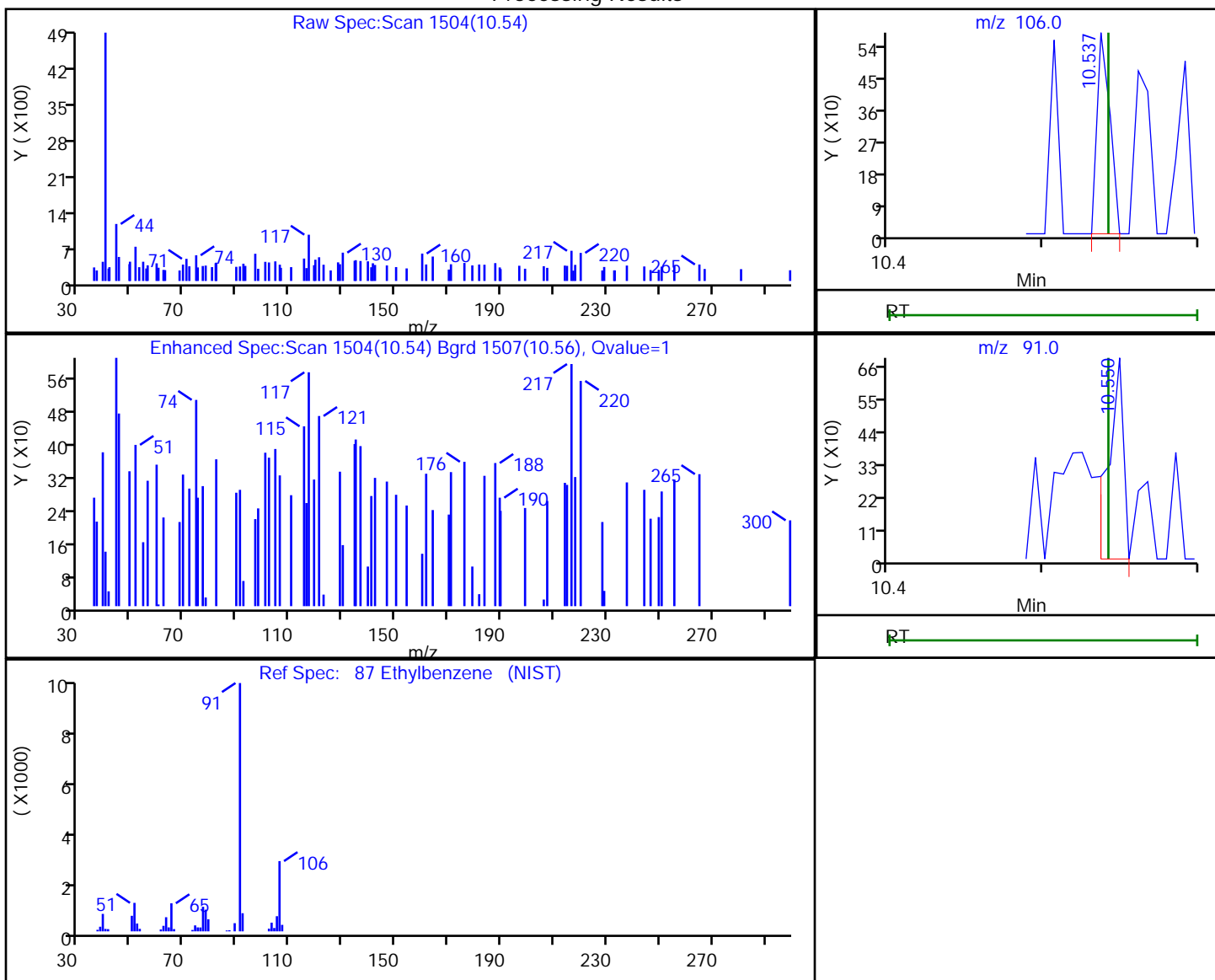
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012515.D  
Injection Date: 25-Jan-2020 17:05:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-8 Lab Sample ID: 180-101459-8  
Client ID: HD-COD-SW-7-0/1-0  
Operator ID: 433269 ALS Bottle#: 9 Worklist Smp#: 15  
Purge Vol: 5.000 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
10.54	106.00	331	0.074678
10.55	91.00	472	

Reviewer: bowieh, 28-Jan-2020 09:37:30

Audit Action: Marked Compound Undetected

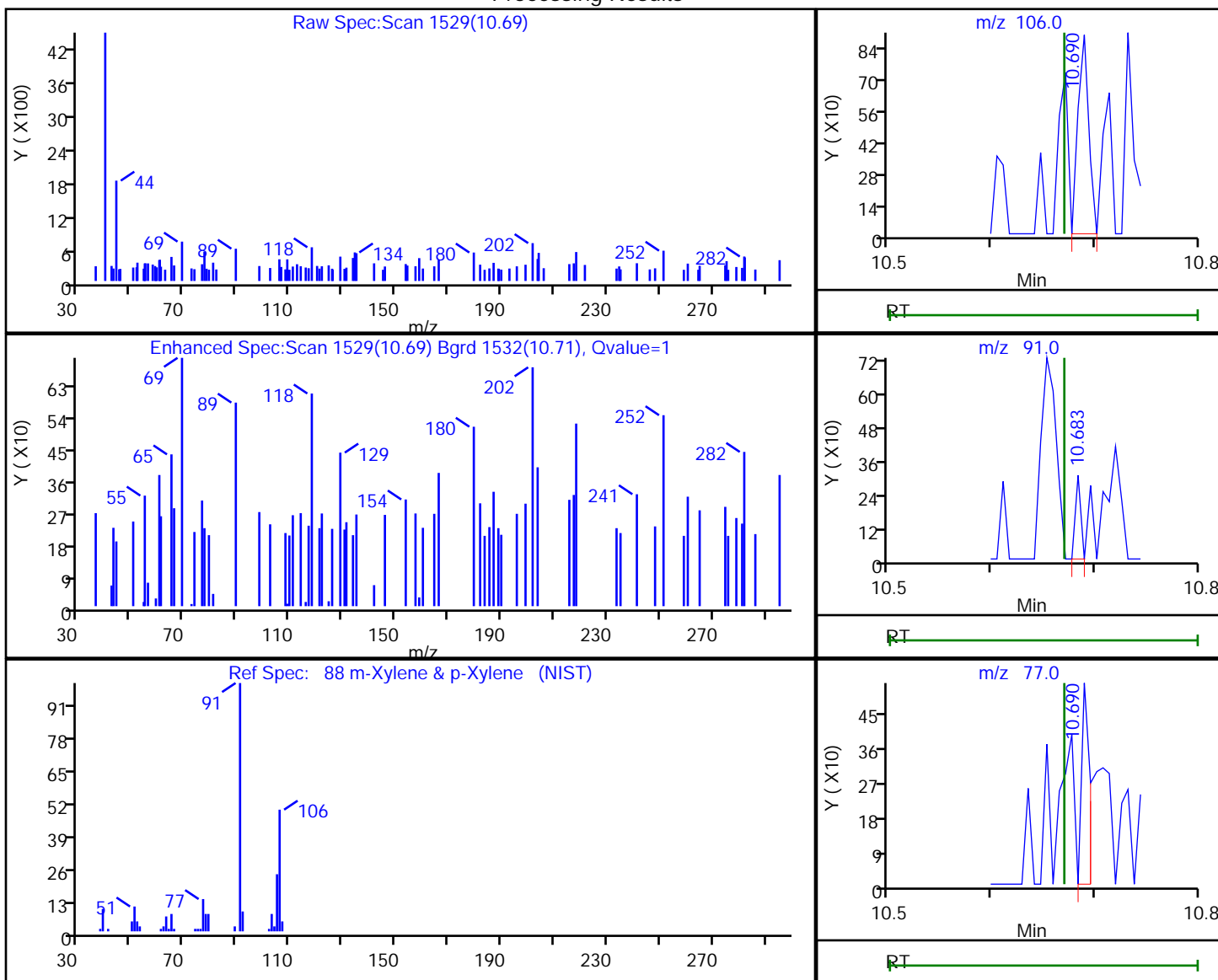
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012515.D  
 Injection Date: 25-Jan-2020 17:05:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-8 Lab Sample ID: 180-101459-8  
 Client ID: HD-COD-SW-7-0/1-0  
 Operator ID: 433269 ALS Bottle#: 9 Worklist Smp#: 15  
 Purge Vol: 5.000 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
10.69	106.00	650	0.122337
10.68	91.00	110	
10.69	77.00	290	

Reviewer: bowieh, 28-Jan-2020 09:37:31

Audit Action: Marked Compound Undetected

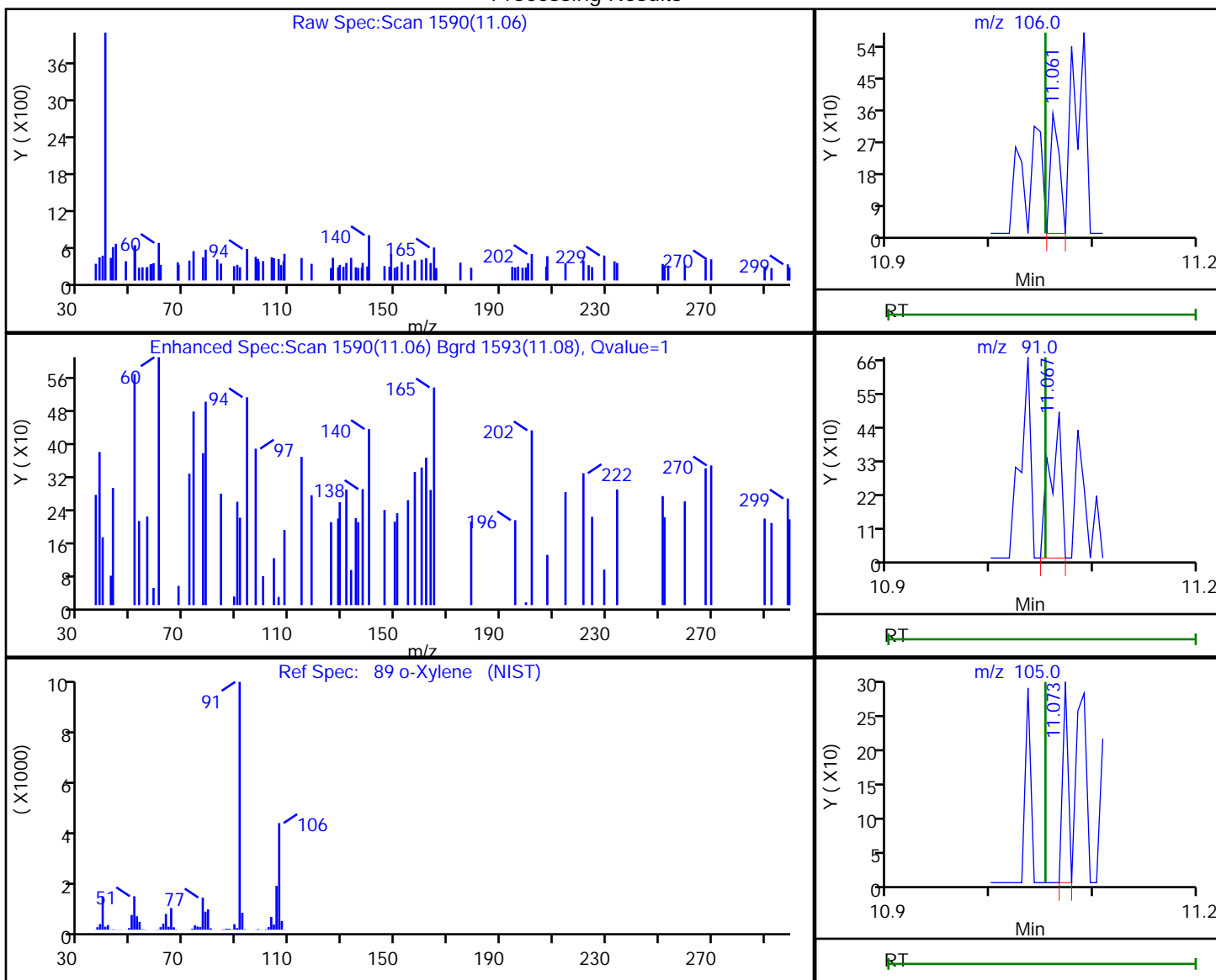
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Eurofins TestAmerica, Pittsburgh

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Injection Date: 25-Jan-2020 17:05:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-8 Lab Sample ID: 180-101459-8  
Client ID: HD-COD-SW-7-0/1-0  
Operator ID: 433269 ALS Bottle#: 9 Worklist Smp#: 15  
Purge Vol: 5.000 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
11.06	106.00	209	0.041342
11.07	91.00	376	
11.07	105.00	108	

Reviewer: bowieh, 28-Jan-2020 09:37:32

Audit Action: Marked Compound Undetected

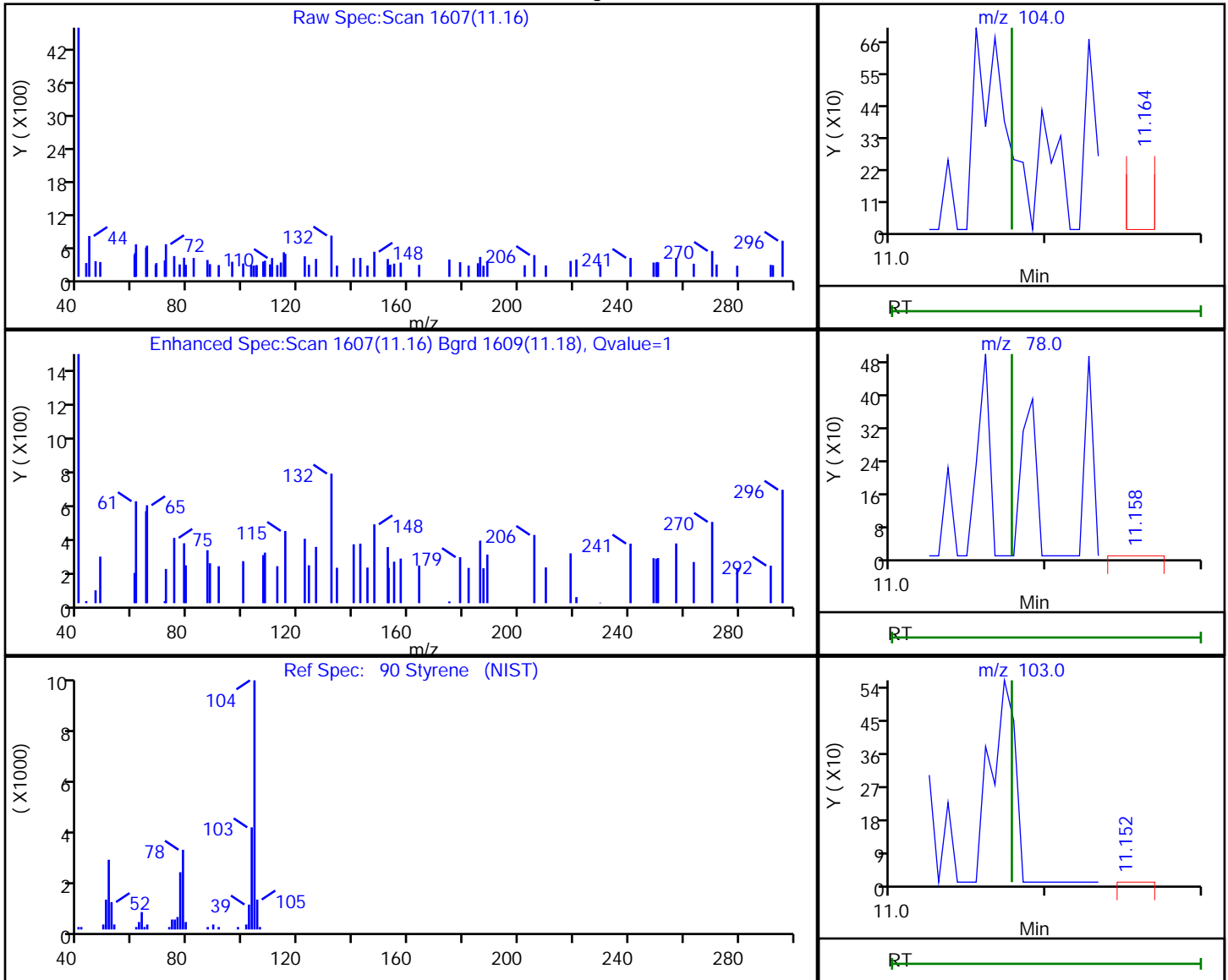
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Injection Date: 25-Jan-2020 17:05:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-8 Lab Sample ID: 180-101459-8  
 Client ID: HD-COD-SW-7-0/1-0  
 Operator ID: 433269 ALS Bottle#: 9 Worklist Smp#: 15  
 Purge Vol: 5.000 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	254	0.031716
11.16	78.00	479	
11.15	103.00	199	

Reviewer: bowieh, 28-Jan-2020 09:37:33

Audit Action: Marked Compound Undetected

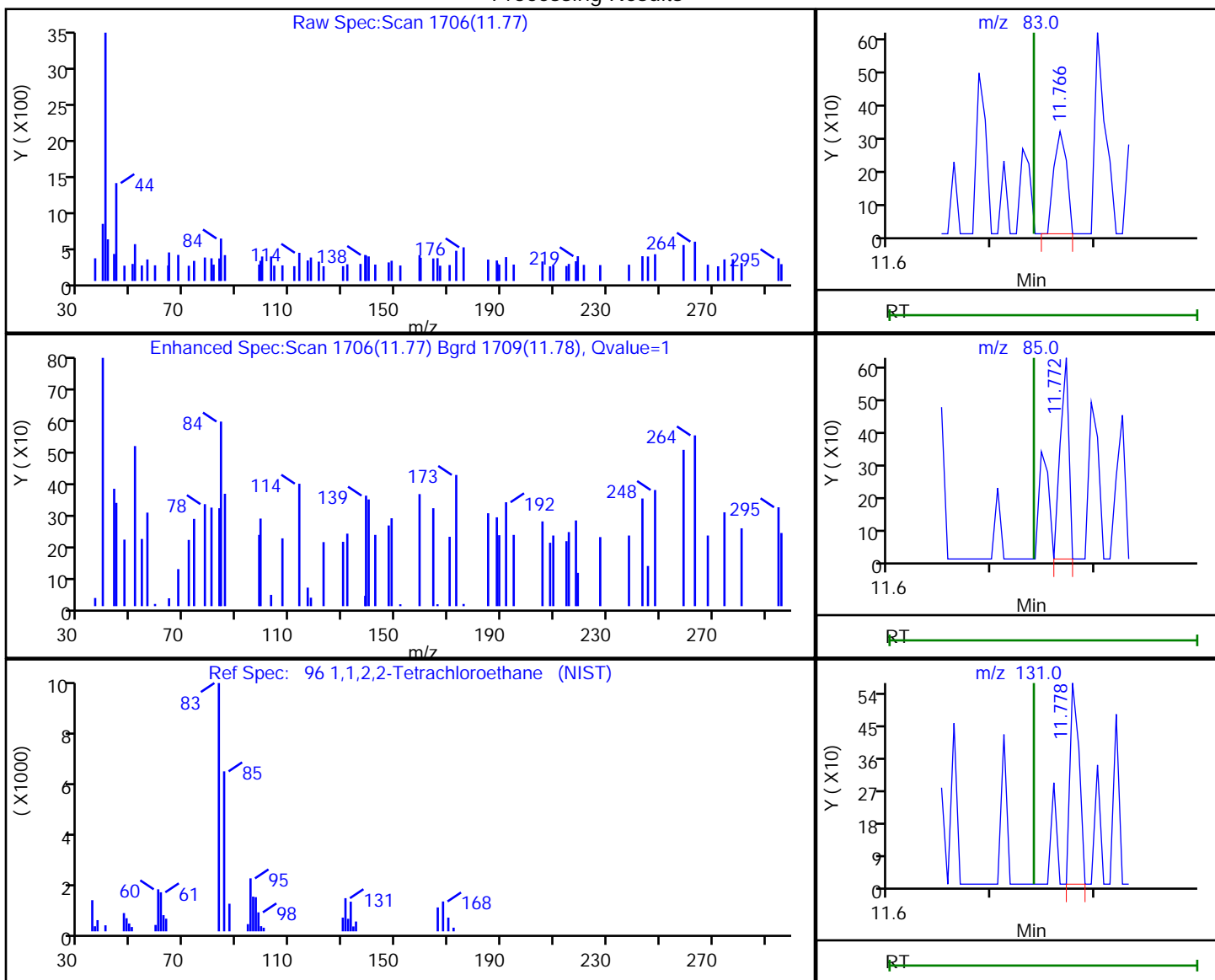
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012515.D  
 Injection Date: 25-Jan-2020 17:05:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-8 Lab Sample ID: 180-101459-8  
 Client ID: HD-COD-SW-7-0/1-0  
 Operator ID: 433269 ALS Bottle#: 9 Worklist Smp#: 15  
 Purge Vol: 5.000 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
11.77	83.00	269	0.119387
11.77	85.00	358	
11.78	131.00	348	

Reviewer: bowieh, 28-Jan-2020 09:37:35

Audit Action: Marked Compound Undetected

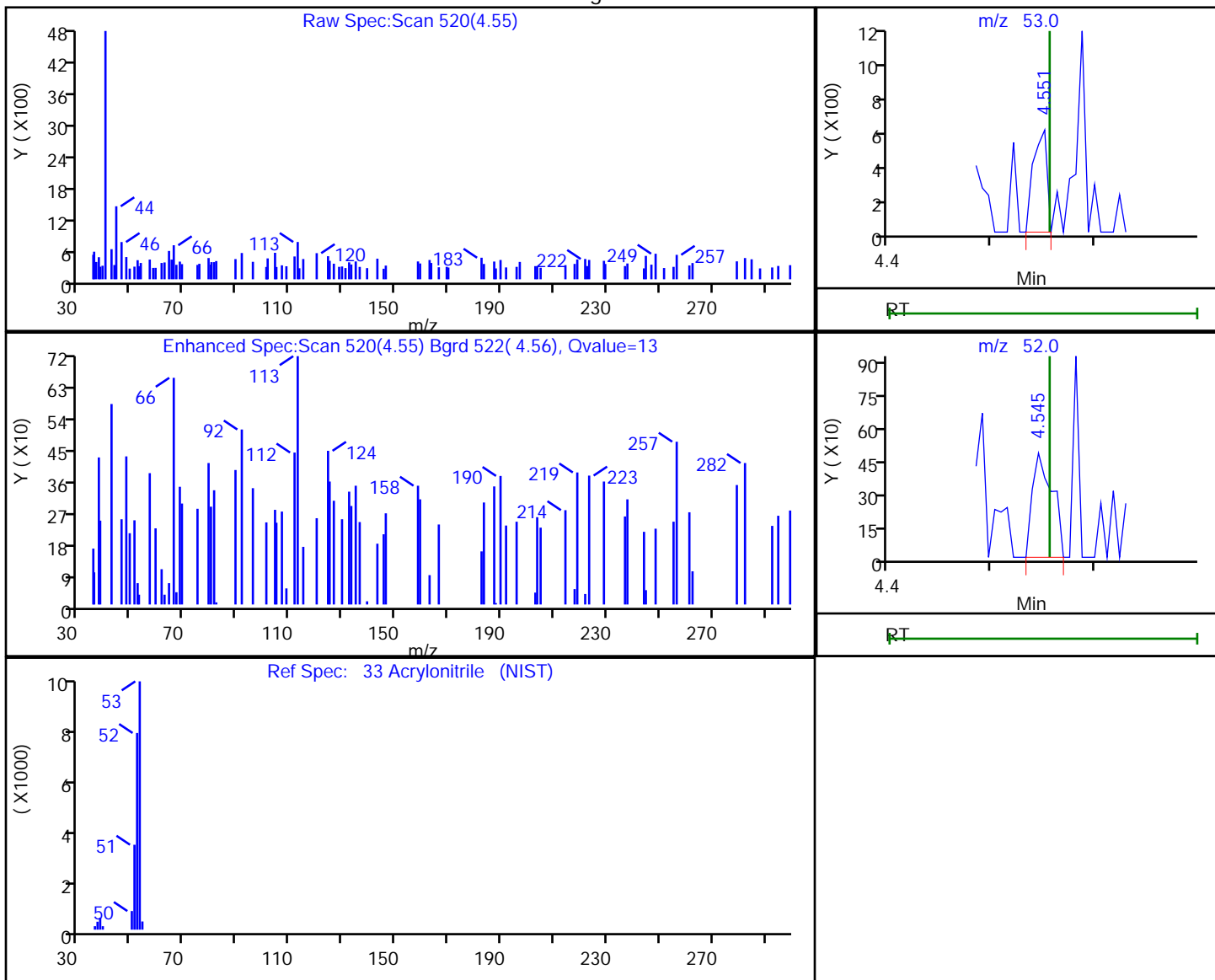
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012515.D  
 Injection Date: 25-Jan-2020 17:05:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-8 Lab Sample ID: 180-101459-8  
 Client ID: HD-COD-SW-7-0/1-0  
 Operator ID: 433269 ALS Bottle#: 9 Worklist Smp#: 15  
 Purge Vol: 5.000 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
4.55	53.00	515	0.565620
4.55	52.00	641	

Reviewer: bowieh, 28-Jan-2020 09:36:59

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.: 180-101459-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: HD-COD-SW-27-0/1-0 Lab Sample ID: 180-101459-9  
 Matrix: Water Lab File ID: 6012516.D  
 Analysis Method: EPA 8260C Date Collected: 01/23/2020 13:05  
 Sample wt/vol: 5 (mL) Date Analyzed: 01/25/2020 17:32  
 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.: 304996 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	ND	^c	1.0	0.88
74-83-9	Bromomethane	ND	^c	1.0	0.89
75-00-3	Chloroethane	ND	^c	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.: 180-101459-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: HD-COD-SW-27-0/1-0 Lab Sample ID: 180-101459-9  
 Matrix: Water Lab File ID: 6012516.D  
 Analysis Method: EPA 8260C Date Collected: 01/23/2020 13:05  
 Sample wt/vol: 5 (mL) Date Analyzed: 01/25/2020 17:32  
 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.: 304996 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)	119		70-150
2037-26-5	Toluene-d8 (Surr)	102		78-128
460-00-4	4-Bromofluorobenzene (Surr)	79		64-123
1868-53-7	Dibromofluoromethane (Surr)	101		75-147

Eurofins TestAmerica, Pittsburgh  
Target Compound Quantitation Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012516.D  
 Lims ID: 180-101459-B-9  
 Client ID: HD-COD-SW-27-0/1-0  
 Sample Type: Client  
 Inject. Date: 25-Jan-2020 17:32:30 ALS Bottle#: 10 Worklist Smp#: 16  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 180-0030512-016  
 Misc. Info.: 180-101459-b-9  
 Operator ID: 433269 Instrument ID: CHHP6  
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\MSVOA\_LL\_CHHP6.m  
 Limit Group: VOA 8260C\_D ICAL  
 Last Update: 28-Jan-2020 09:40:31 Calib Date: 31-Dec-2019 16:03:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123111.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0335

First Level Reviewer: bowieh

Date: 28-Jan-2020 09:40:31

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.316	4.319	-0.003	88	145670	1000.0	
* 2 Fluorobenzene (IS)	96	7.309	7.306	0.003	99	493885	50.0	
* 3 Chlorobenzene-d5	119	10.412	10.408	0.004	84	117622	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.754	12.757	-0.003	93	166137	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.579	6.582	-0.003	95	112230	50.4	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.950	6.953	-0.003	96	137349	59.3	
\$ 7 Toluene-d8 (Surr)	98	8.958	8.954	0.004	93	442580	50.8	
\$ 8 4-Bromofluorobenzene (Surr	95	11.598	11.595	0.003	0	123502	39.7	
12 Chloromethane	50	1.840	1.837	0.003	45	6279	1.67	M
13 Vinyl chloride	62		1.952				ND	U
15 Bromomethane	94		2.287				ND	U
16 Chloroethane	64		2.421				ND	U
22 1,1-Dichloroethene	96		3.370				ND	U
24 Acetone	43	3.458	3.473	-0.015	90	10729	8.90	
26 Carbon disulfide	76	3.671	3.662	0.009	55	2505	0.4708	M
31 Methylene Chloride	84		4.155				ND	
33 Acrylonitrile	53		4.556				ND	U
34 trans-1,2-Dichloroethene	96		4.574				ND	U
35 Methyl tert-butyl ether	73		4.611				ND	U
37 1,1-Dichloroethane	63		5.219				ND	
43 cis-1,2-Dichloroethene	96		5.967				ND	U
44 2-Butanone (MEK)	43		5.980				ND	U
48 Chlorobromomethane	128		6.247				ND	U
50 Chloroform	83	6.415	6.393	0.022	20	2360	-3.31	a
51 1,1,1-Trichloroethane	97		6.558				ND	U
53 Carbon tetrachloride	117		6.722				ND	U
56 Benzene	78		6.959				ND	U
57 1,2-Dichloroethane	62		7.038				ND	U
61 Trichloroethene	130		7.689				ND	U
64 1,2-Dichloropropane	63		7.963				ND	U
68 Dichlorobromomethane	83		8.249				ND	U

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
71 cis-1,3-Dichloropropene	75		8.699				ND	U
72 4-Methyl-2-pentanone (MIBK)	43		8.857				ND	U
73 Toluene	91	9.031	9.021	0.010	35	2571	0.2319	a
74 trans-1,3-Dichloropropene	75		9.277				ND	U
76 1,1,2-Trichloroethane	97		9.472				ND	U
77 Tetrachloroethene	164		9.538				ND	U
79 2-Hexanone	43		9.691				ND	U
81 Chlorodibromomethane	129		9.843				ND	U
82 Ethylene Dibromide	107		9.952				ND	U
84 Chlorobenzene	112		10.439				ND	U
86 1,1,1,2-Tetrachloroethane	131		10.530				ND	U
87 Ethylbenzene	106		10.542				ND	U
88 m-Xylene & p-Xylene	106		10.670				ND	U
89 o-Xylene	106		11.053				ND	U
90 Styrene	104		11.078				ND	U
91 Bromoform	173		11.254				ND	U
96 1,1,2,2-Tetrachloroethane	83		11.741				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:

VOA8260INT\_00103

Amount Added: 2.00

Units: uL

Run Reagent

VOA8260SURR\_00103

Amount Added: 2.00

Units: uL

Run Reagent

Euofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012516.D

Injection Date: 25-Jan-2020 17:32:30

Instrument ID: CHHP6

Operator ID: 433269

Lims ID: 180-101459-B-9

Lab Sample ID: 180-101459-9

Worklist Smp#: 16

Client ID: HD-COD-SW-27-0/1-0

Purge Vol: 5.000 mL

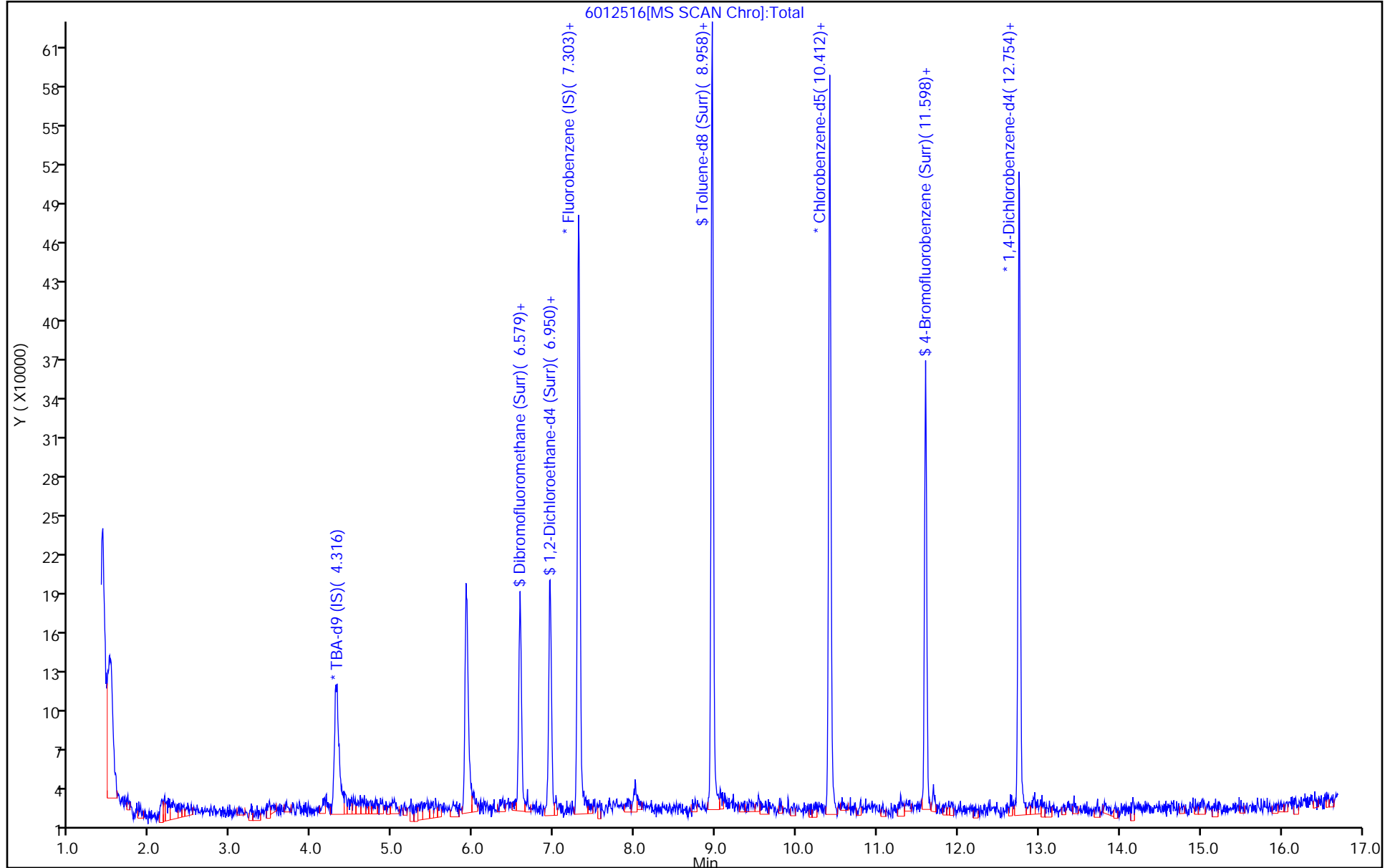
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: MSVOA\_LL\_CHHP6

Limit Group: VOA 8260C\_D ICAL

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Pittsburgh  
Recovery Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012516.D  
 Lims ID: 180-101459-B-9  
 Client ID: HD-COD-SW-27-0/1-0  
 Sample Type: Client  
 Inject. Date: 25-Jan-2020 17:32:30 ALS Bottle#: 10 Worklist Smp#: 16  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 180-0030512-016  
 Misc. Info.: 180-101459-b-9  
 Operator ID: 433269 Instrument ID: CHHP6  
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\MSVOA\_LL\_CHHP6.m  
 Limit Group: VOA 8260C\_D ICAL  
 Last Update: 28-Jan-2020 09:40:31 Calib Date: 31-Dec-2019 16:03:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123111.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0335

First Level Reviewer: bowieh Date: 28-Jan-2020 09:40:31

Compound	Amount Added	Amount Recovered	% Rec.
\$ 5 Dibromofluoromethane (Surr)	50.0	50.4	100.86
\$ 6 1,2-Dichloroethane-d4 (Surr)	50.0	59.3	118.61
\$ 7 Toluene-d8 (Surr)	50.0	50.8	101.59
\$ 8 4-Bromofluorobenzene (Surr)	50.0	39.7	79.37

Eurofins TestAmerica, Pittsburgh

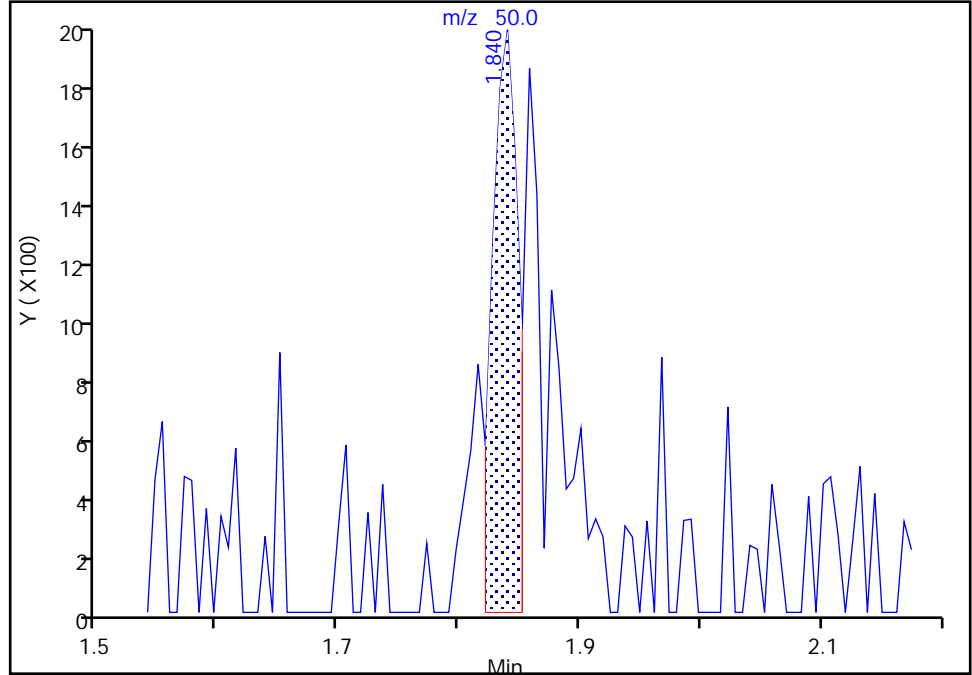
Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012516.D  
Injection Date: 25-Jan-2020 17:32:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-9 Lab Sample ID: 180-101459-9  
Client ID: HD-COD-SW-27-0/1-0  
Operator ID: 433269 ALS Bottle#: 10 Worklist Smp#: 16  
Purge Vol: 5.000 mL Dil. 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

Signal: 1

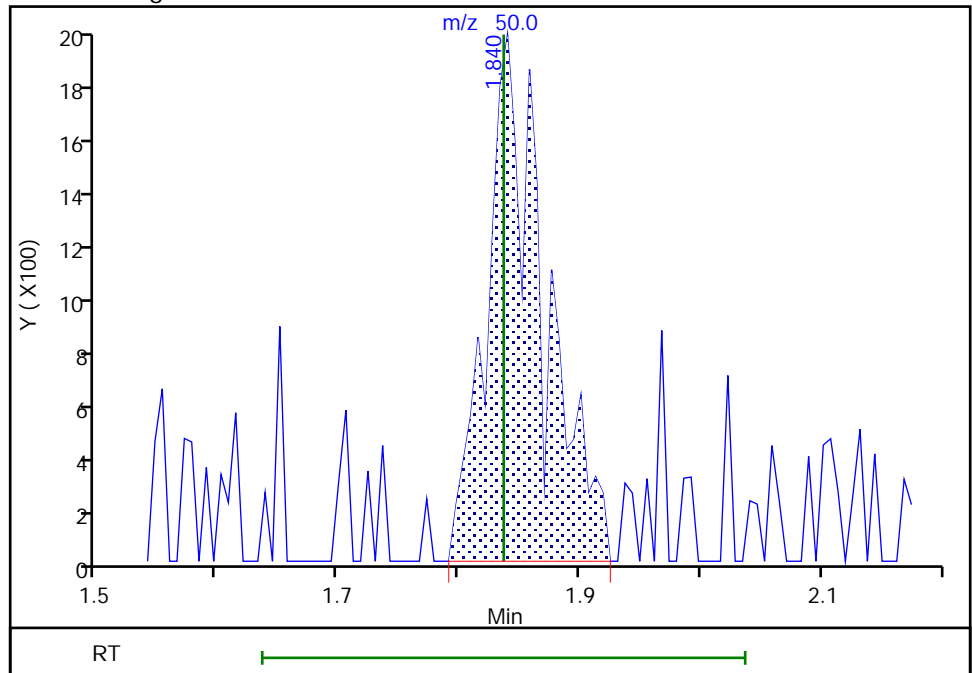
RT: 1.84  
Area: 2857  
Amount: 0.759082  
Amount Units: ng

Processing Integration Results



RT: 1.84  
Area: 6279  
Amount: 1.668281  
Amount Units: ng

Manual Integration Results



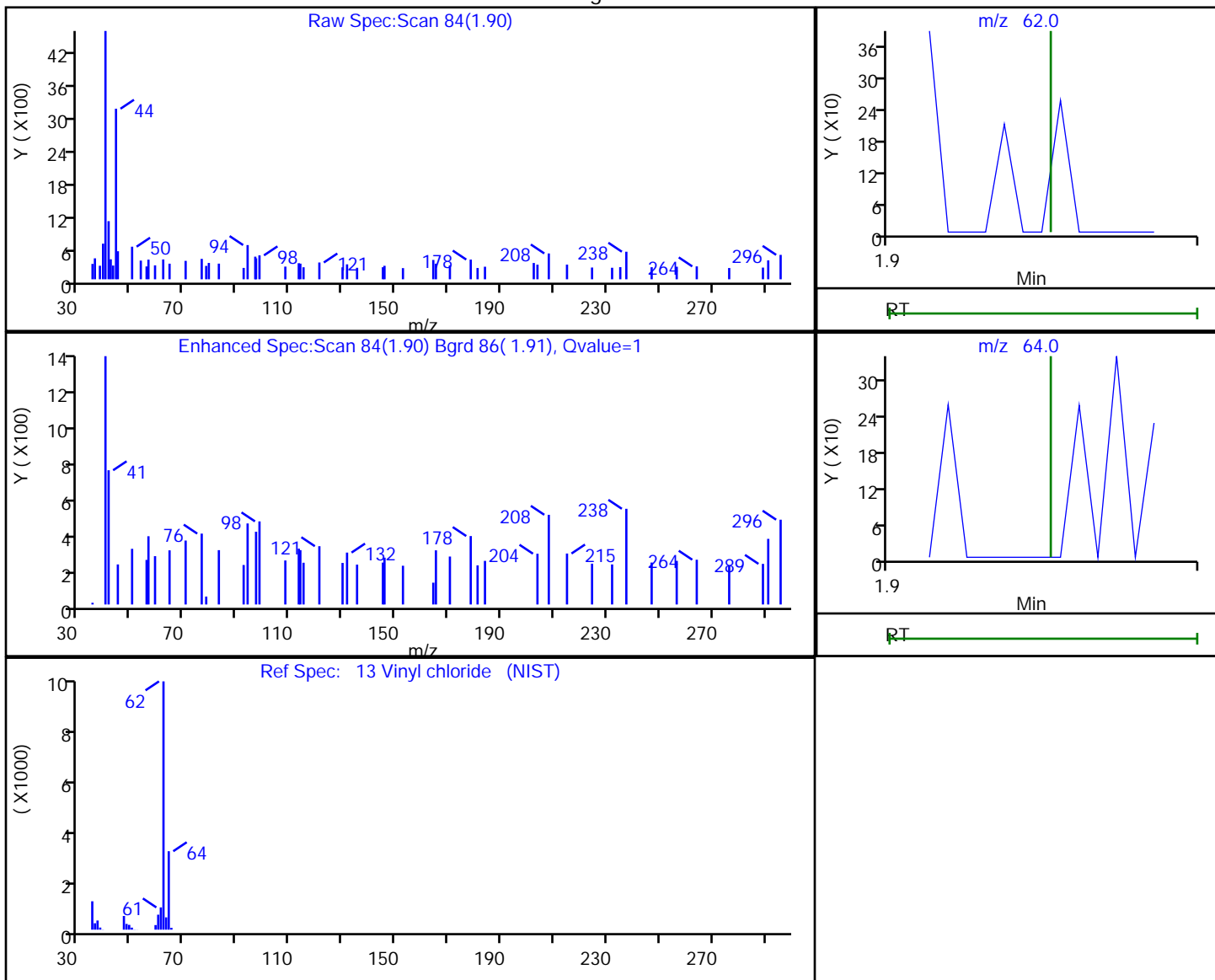
Reviewer: bowieh, 28-Jan-2020 09:38:06  
Audit Action: Manually Integrated

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012516.D  
 Injection Date: 25-Jan-2020 17:32:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-9 Lab Sample ID: 180-101459-9  
 Client ID: HD-COD-SW-27-0/1-0  
 Operator ID: 433269 ALS Bottle#: 10 Worklist Smp#: 16  
 Purge Vol: 5.000 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
1.90	62.00	134	0.041373
1.90	64.00	105	

Reviewer: bowieh, 28-Jan-2020 09:38:08

Audit Action: Marked Compound Undetected

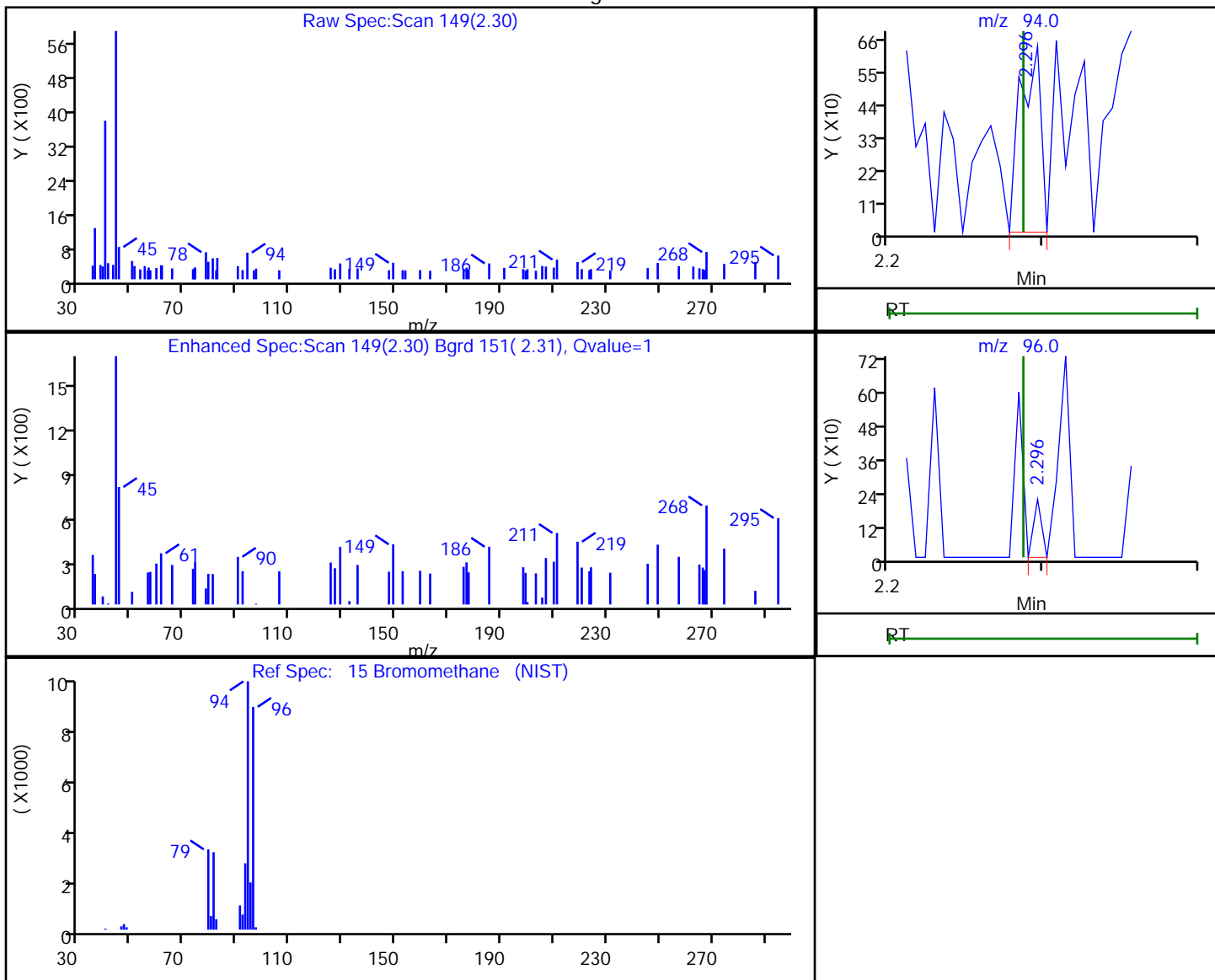
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012516.D  
Injection Date: 25-Jan-2020 17:32:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-9 Lab Sample ID: 180-101459-9  
Client ID: HD-COD-SW-27-0/1-0  
Operator ID: 433269 ALS Bottle#: 10 Worklist Smp#: 16  
Purge Vol: 5.000 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
2.30	94.00	578	0.279715
2.30	96.00	76	

Reviewer: bowieh, 28-Jan-2020 09:38:10

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

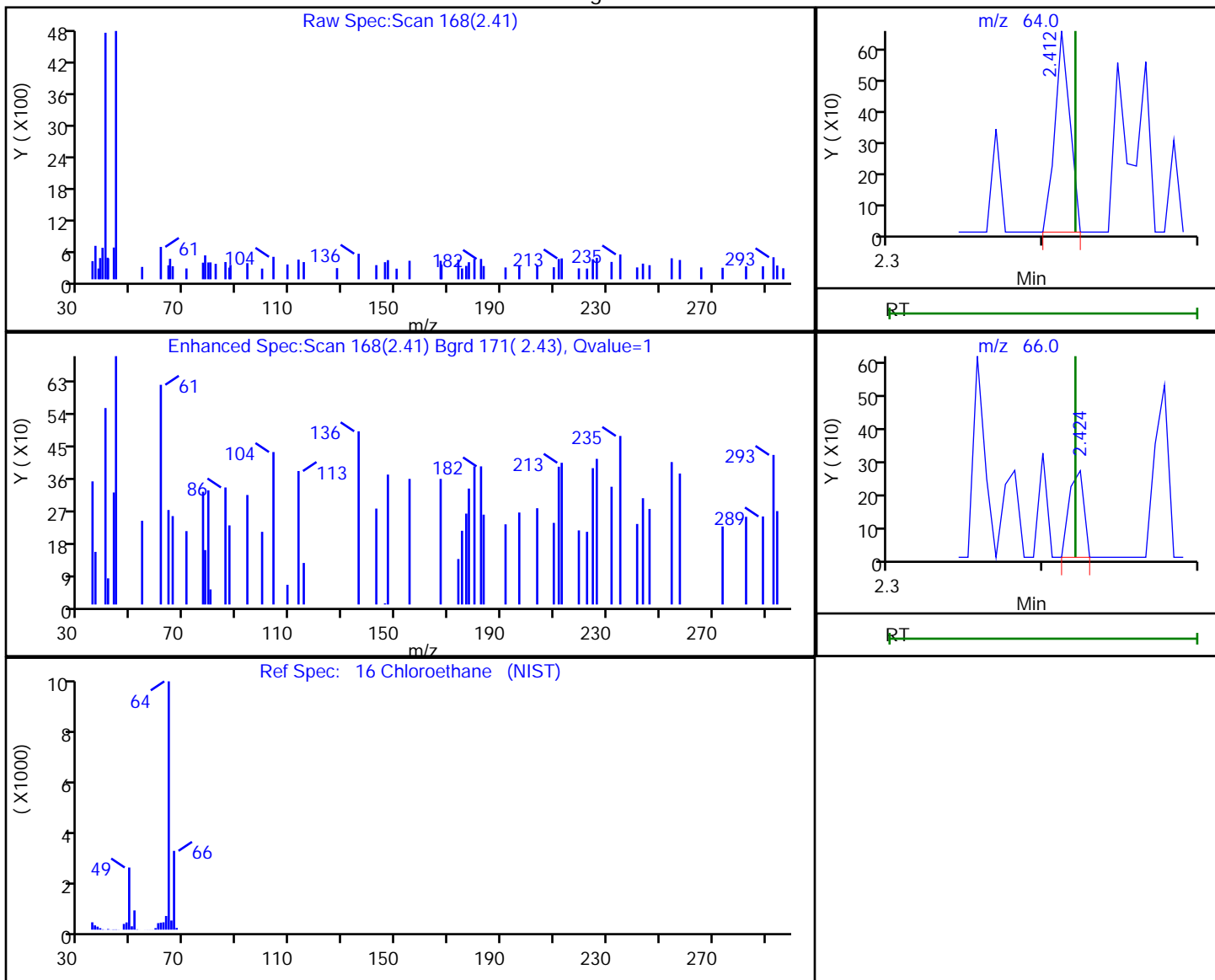


Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012516.D  
Injection Date: 25-Jan-2020 17:32:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-9 Lab Sample ID: 180-101459-9  
Client ID: HD-COD-SW-27-0/1-0  
Operator ID: 433269 ALS Bottle#: 10 Worklist Smp#: 16  
Purge Vol: 5.000 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
2.41	64.00	438	0.185685
2.42	66.00	176	

Reviewer: bowieh, 28-Jan-2020 09:38:11

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

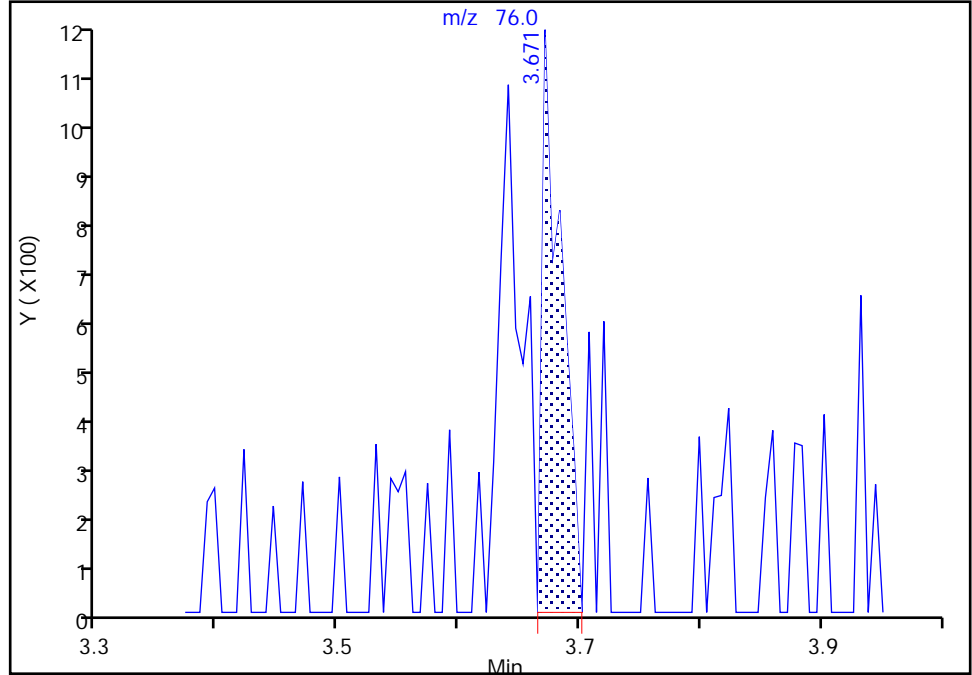
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Injection Date: 25-Jan-2020 17:32:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-9 Lab Sample ID: 180-101459-9  
Client ID: HD-COD-SW-27-0/1-0  
Operator ID: 433269 ALS Bottle#: 10 Worklist Smp#: 16  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: 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

Signal: 1

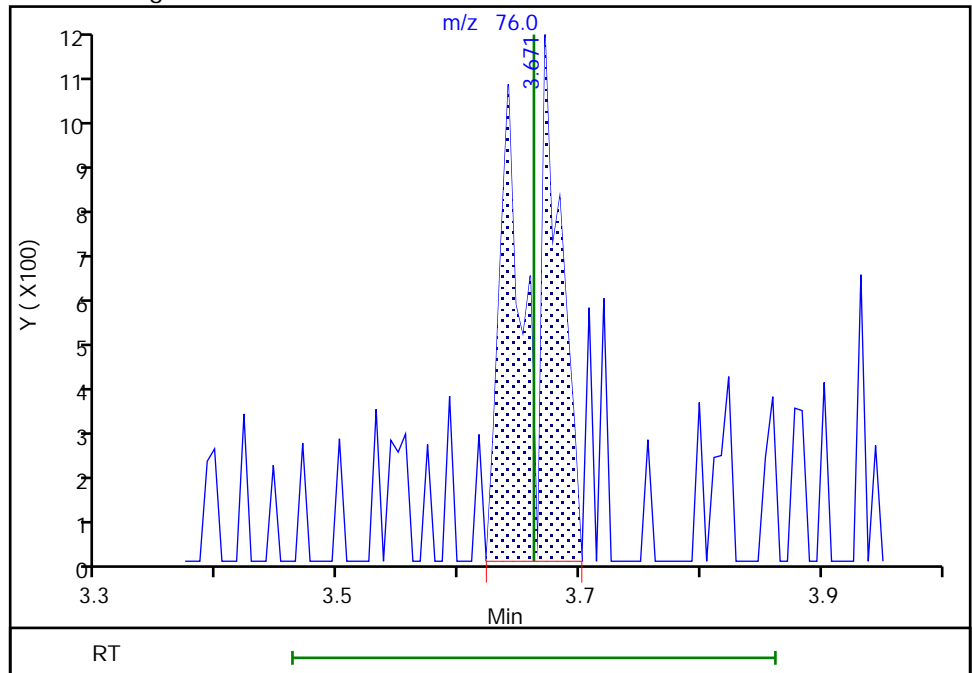
RT: 3.67  
Area: 1210  
Amount: 0.227427  
Amount Units: ng

Processing Integration Results



RT: 3.67  
Area: 2505  
Amount: 0.470830  
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 28-Jan-2020 09:38:21  
Audit Action: Manually Integrated

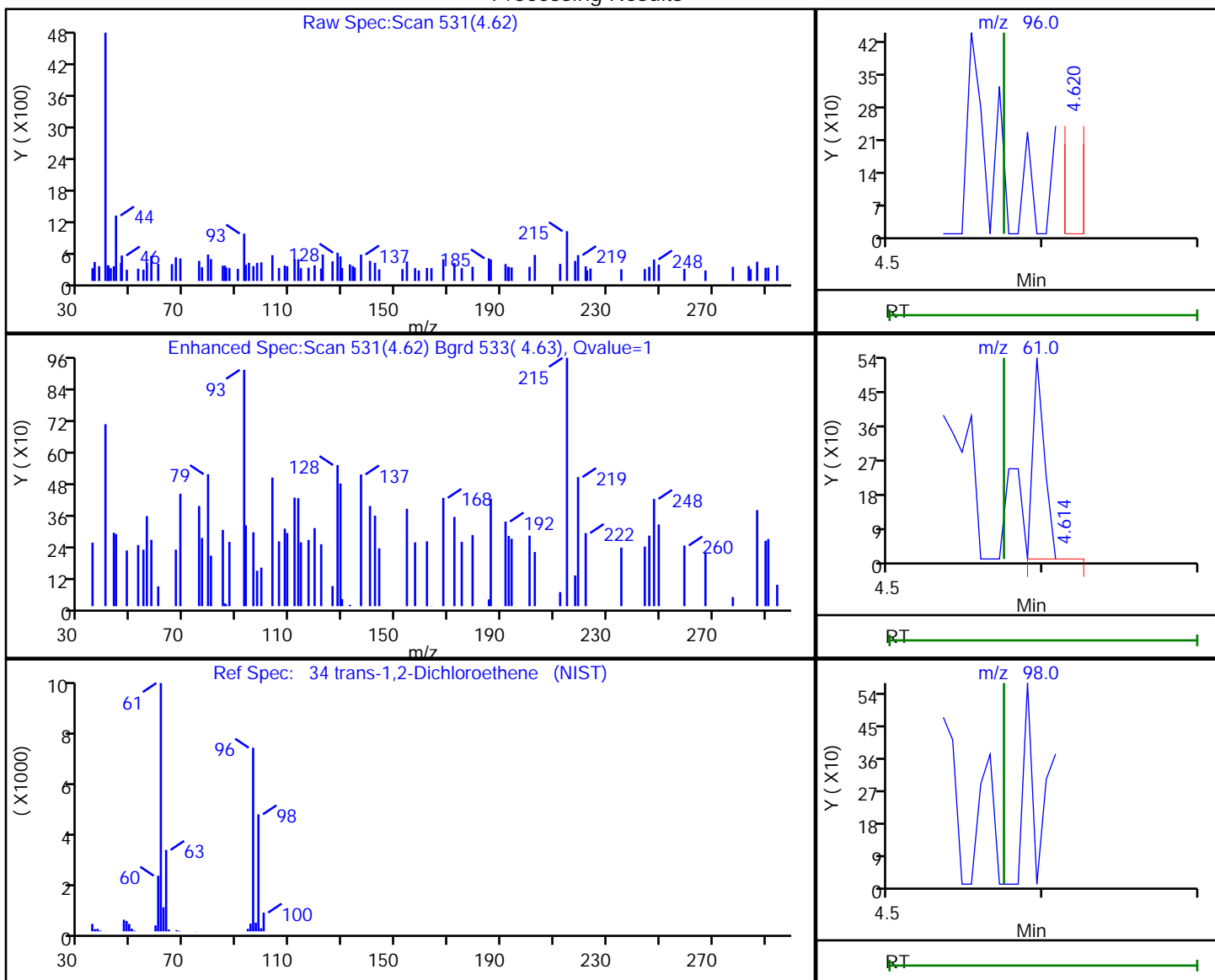
Audit Reason: Poor chromatography

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012516.D  
 Injection Date: 25-Jan-2020 17:32:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-9 Lab Sample ID: 180-101459-9  
 Client ID: HD-COD-SW-27-0/1-0  
 Operator ID: 433269 ALS Bottle#: 10 Worklist Smp#: 16  
 Purge Vol: 5.000 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
4.62	96.00	104	0.038683
4.61	61.00	357	
4.57	98.00	0	

Reviewer: bowieh, 28-Jan-2020 09:38:25

Audit Action: Marked Compound Undetected

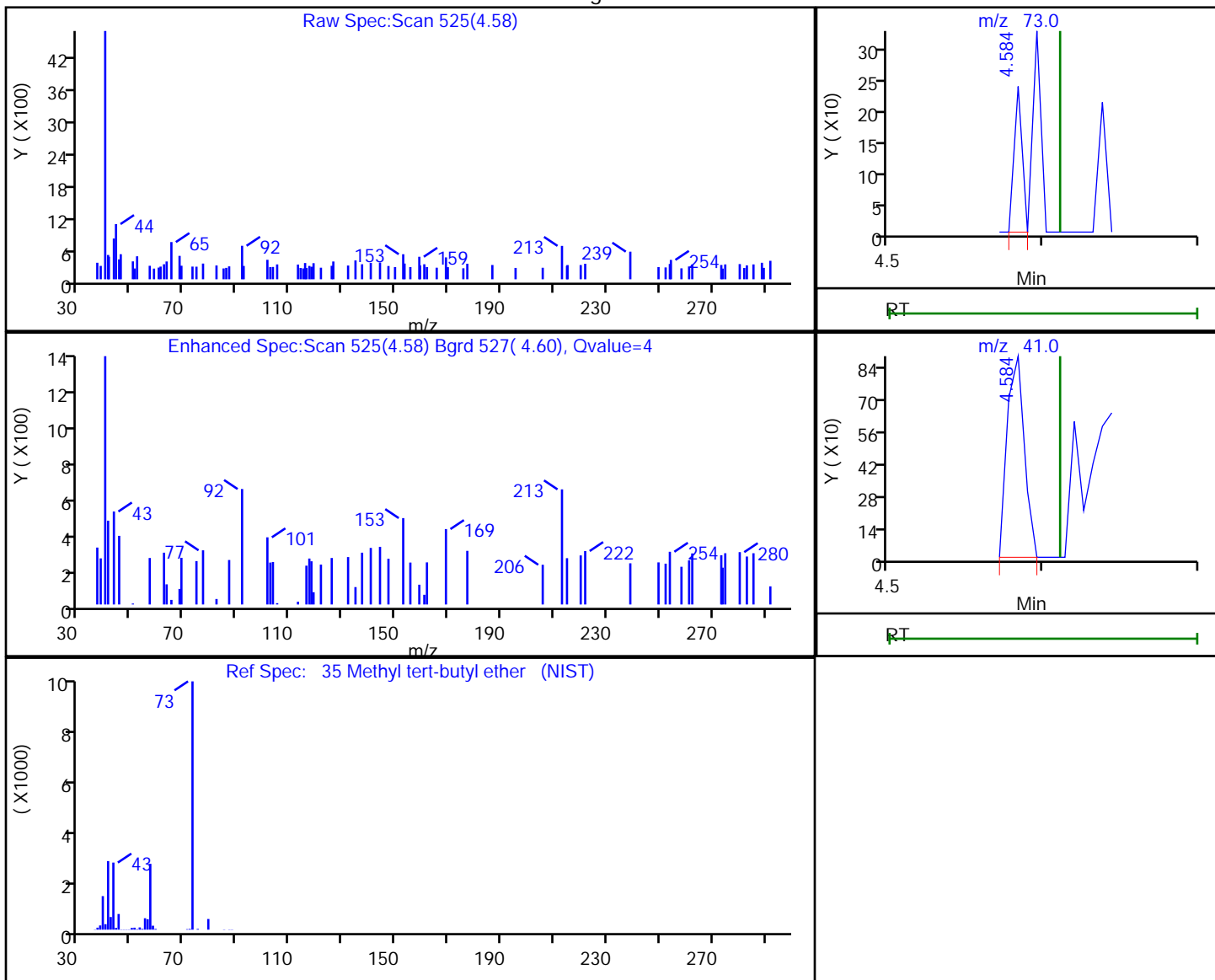
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012516.D  
 Injection Date: 25-Jan-2020 17:32:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-9 Lab Sample ID: 180-101459-9  
 Client ID: HD-COD-SW-27-0/1-0  
 Operator ID: 433269 ALS Bottle#: 10 Worklist Smp#: 16  
 Purge Vol: 5.000 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
4.58	73.00	87	0.016704
4.58	41.00	683	

Reviewer: bowieh, 28-Jan-2020 09:38:26

Audit Action: Marked Compound Undetected

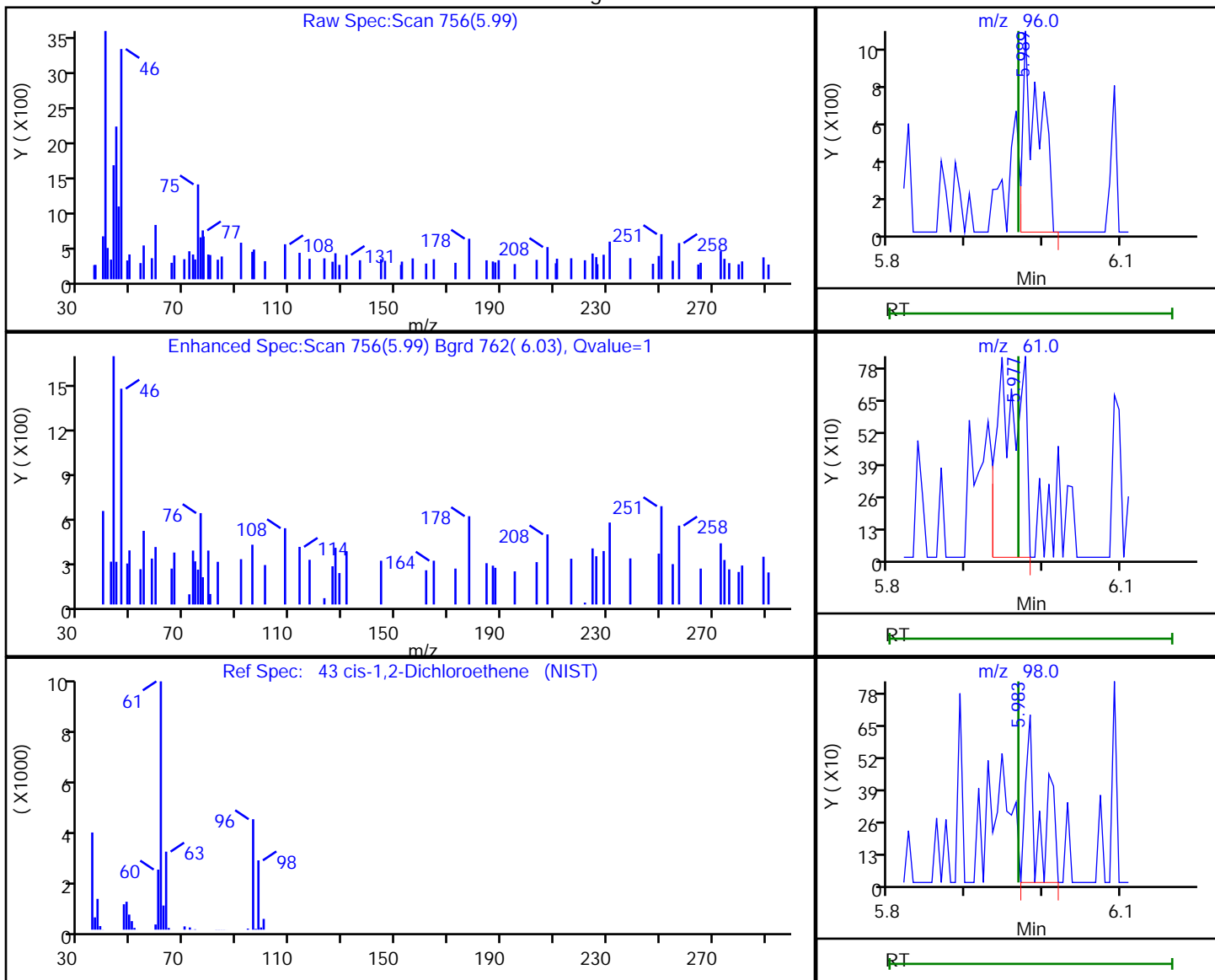
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012516.D  
Injection Date: 25-Jan-2020 17:32:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-9 Lab Sample ID: 180-101459-9  
Client ID: HD-COD-SW-27-0/1-0  
Operator ID: 433269 ALS Bottle#: 10 Worklist Smp#: 16  
Purge Vol: 5.000 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
5.99	96.00	1551	0.535794
5.98	61.00	1721	
5.98	98.00	809	

Reviewer: bowieh, 28-Jan-2020 09:38:27

Audit Action: Marked Compound Undetected

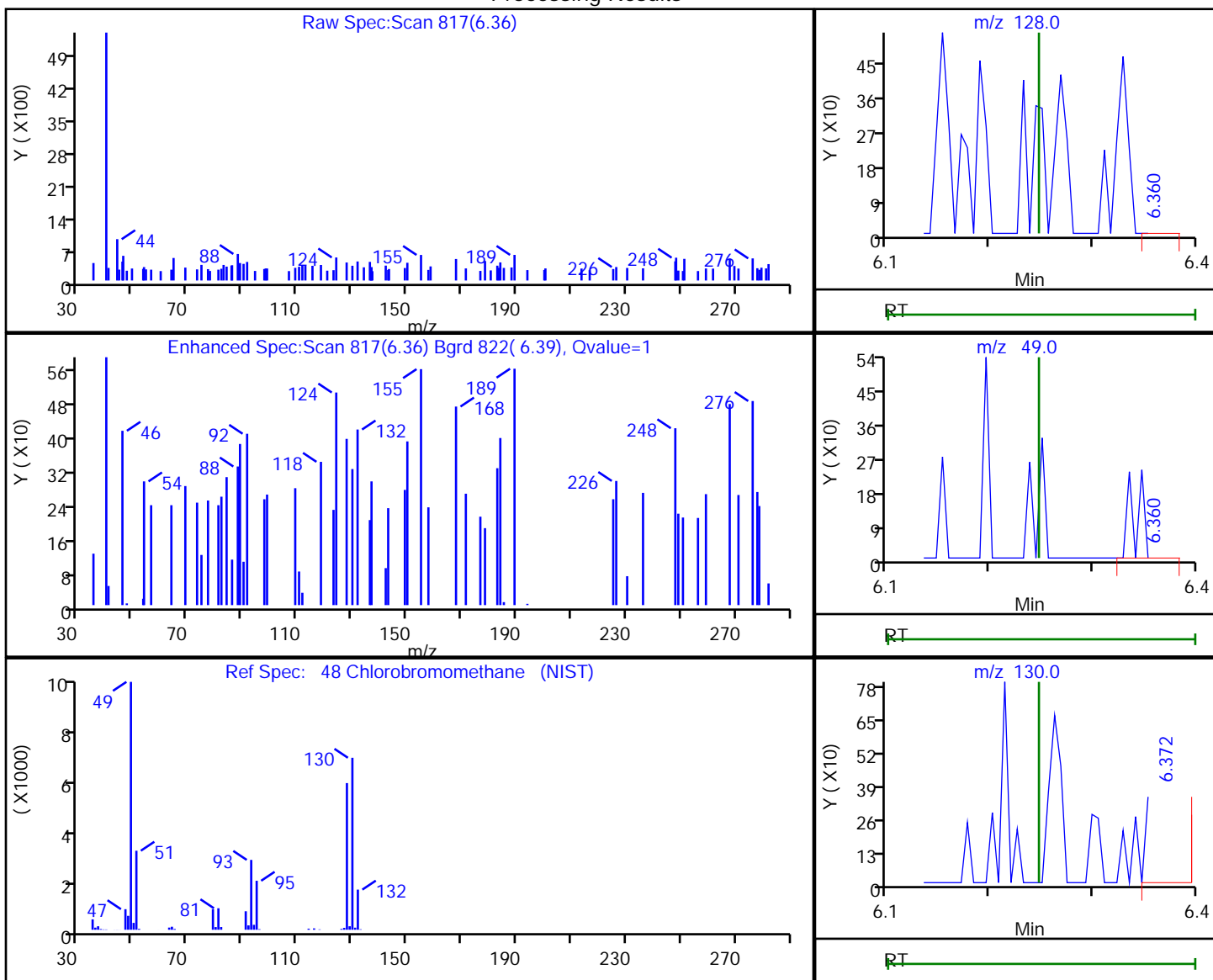
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012516.D  
 Injection Date: 25-Jan-2020 17:32:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-9 Lab Sample ID: 180-101459-9  
 Client ID: HD-COD-SW-27-0/1-0  
 Operator ID: 433269 ALS Bottle#: 10 Worklist Smp#: 16  
 Purge Vol: 5.000 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
6.36	128.00	270	0.181267
6.36	49.00	355	
6.37	130.00	460	

Reviewer: bowieh, 28-Jan-2020 09:39:50

Audit Action: Marked Compound Undetected

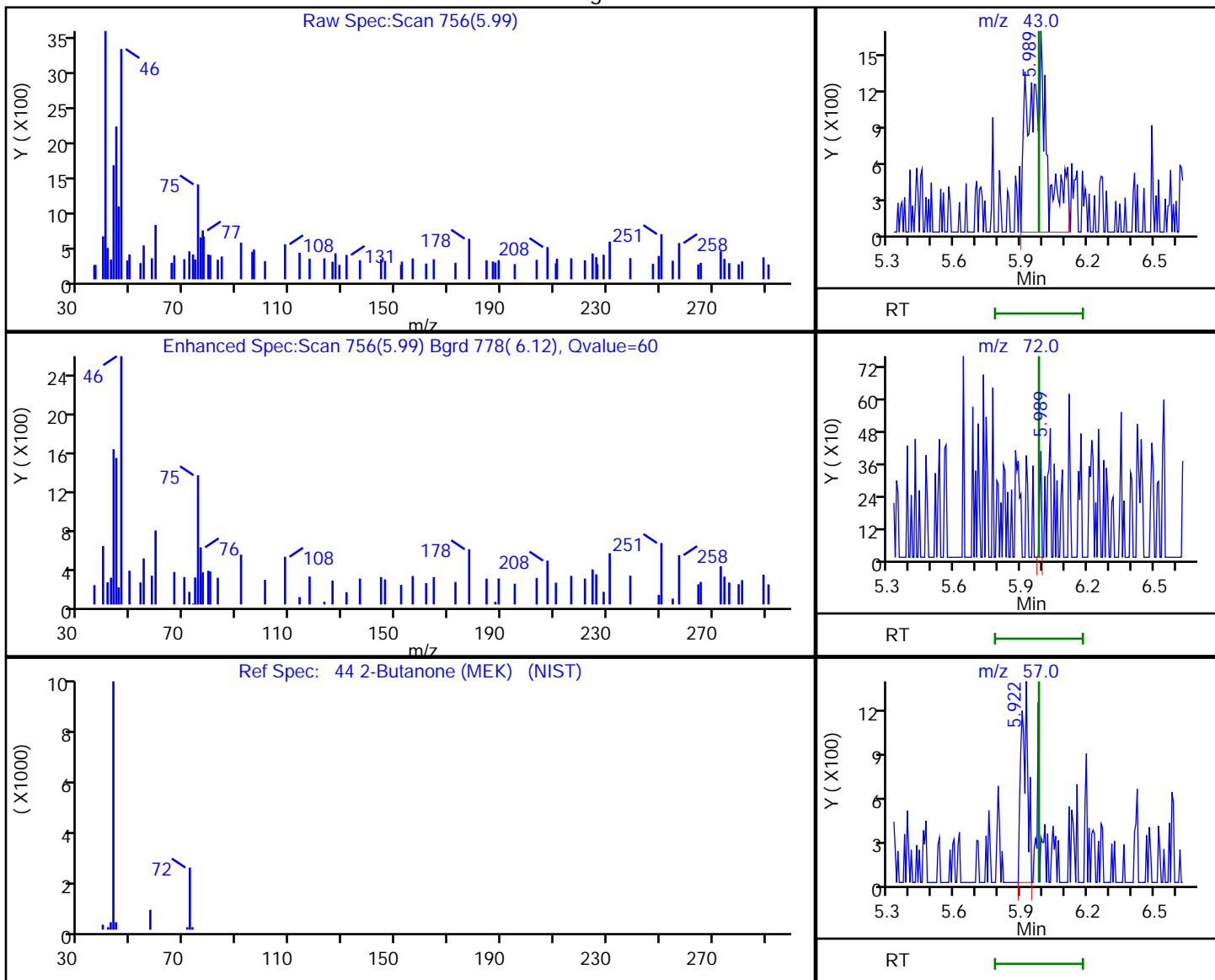
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012516.D  
Injection Date: 25-Jan-2020 17:32:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-9 Lab Sample ID: 180-101459-9  
Client ID: HD-COD-SW-27-0/1-0  
Operator ID: 433269 ALS Bottle#: 10 Worklist Smp#: 16  
Purge Vol: 5.000 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
5.99	43.00	9060	5.975306
5.99	72.00	224	
5.92	57.00	2622	

Reviewer: bowieh, 28-Jan-2020 09:38:29

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

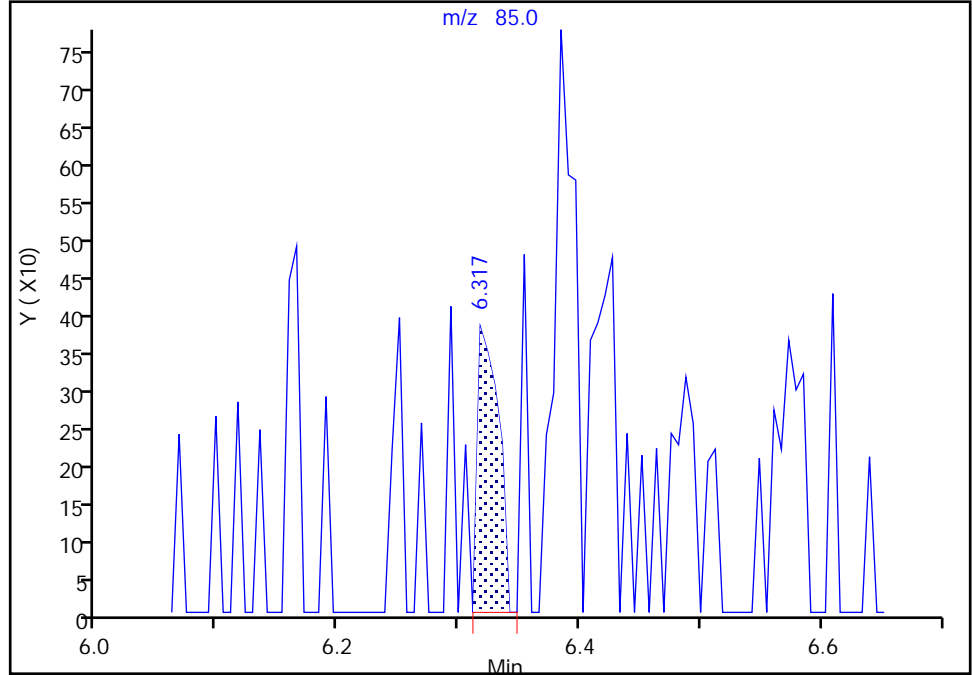
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Injection Date: 25-Jan-2020 17:32:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-9 Lab Sample ID: 180-101459-9  
Client ID: HD-COD-SW-27-0/1-0  
Operator ID: 433269 ALS Bottle#: 10 Worklist Smp#: 16  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
Column: DB-624 (0.18 mm) Detector: MS SCAN

50 Chloroform, CAS: 67-66-3

Signal: 2

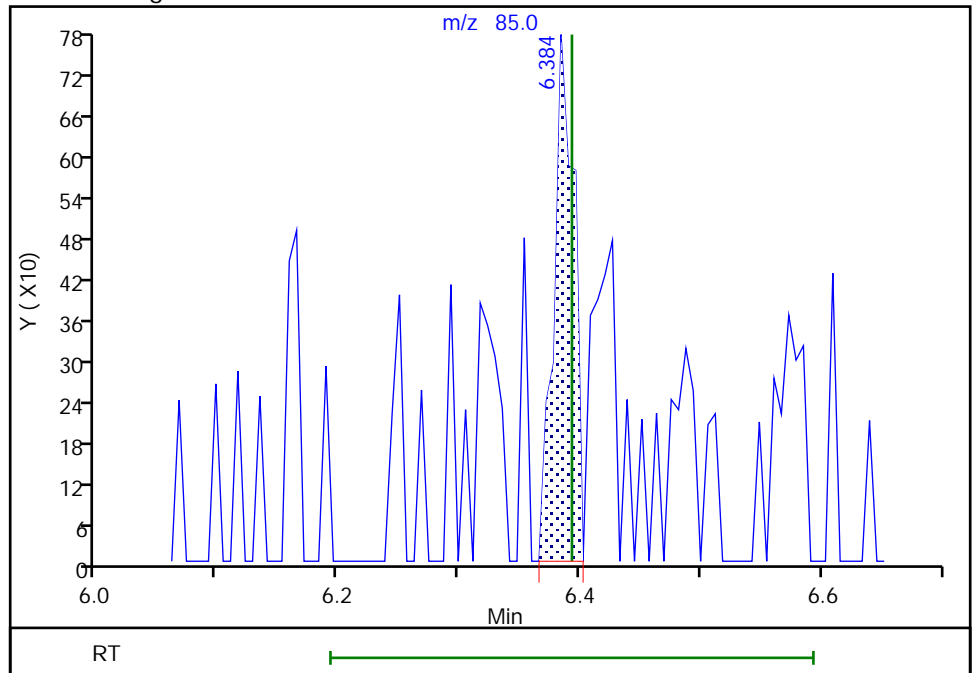
RT: 6.32  
Area: 458  
Amount: -3.843453  
Amount Units: ng

Processing Integration Results



RT: 6.38  
Area: 898  
Amount: -3.312637  
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 28-Jan-2020 09:39:51  
Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID



Eurofins TestAmerica, Pittsburgh

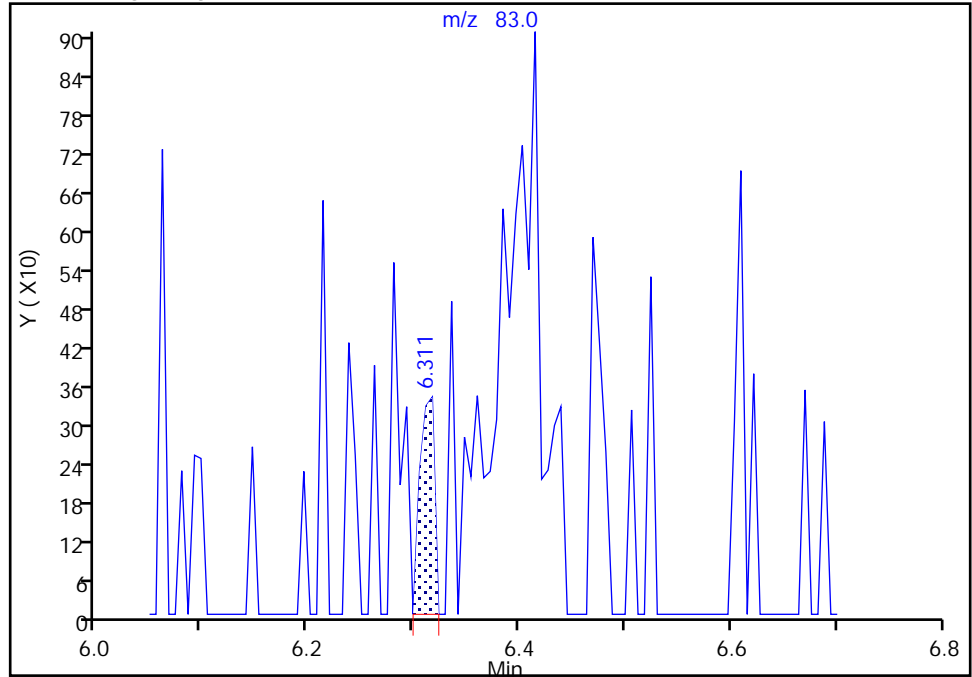
Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012516.D  
Injection Date: 25-Jan-2020 17:32:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-9 Lab Sample ID: 180-101459-9  
Client ID: HD-COD-SW-27-0/1-0  
Operator ID: 433269 ALS Bottle#: 10 Worklist Smp#: 16  
Purge Vol: 5.000 mL Dil. 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

Signal: 1

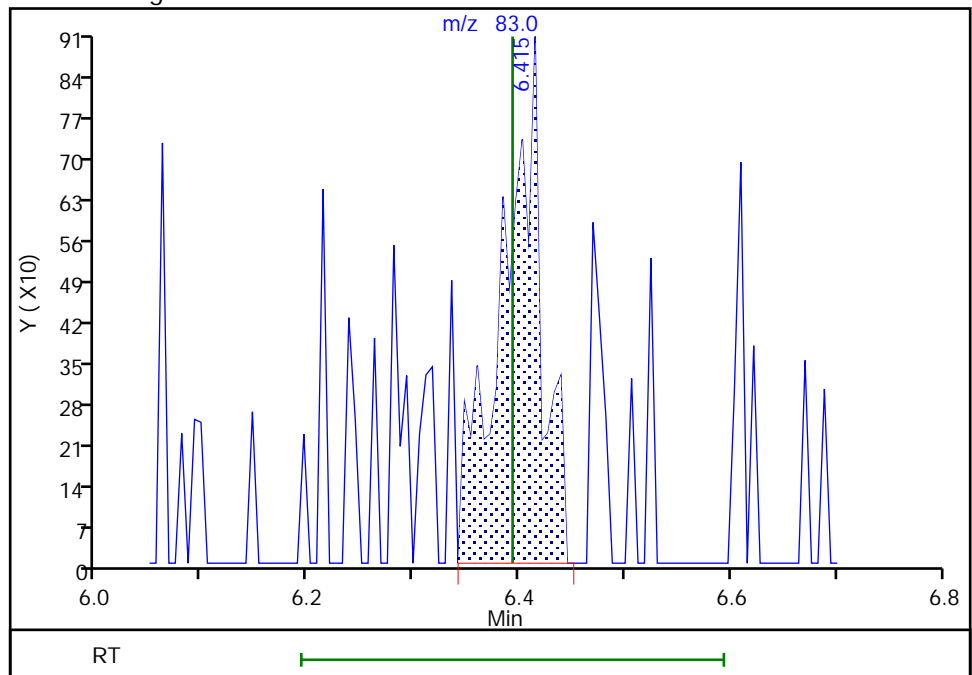
RT: 6.31  
Area: 321  
Amount: -3.843453  
Amount Units: ng

Processing Integration Results



RT: 6.41  
Area: 2360  
Amount: -3.312637  
Amount Units: ng

Manual Integration Results

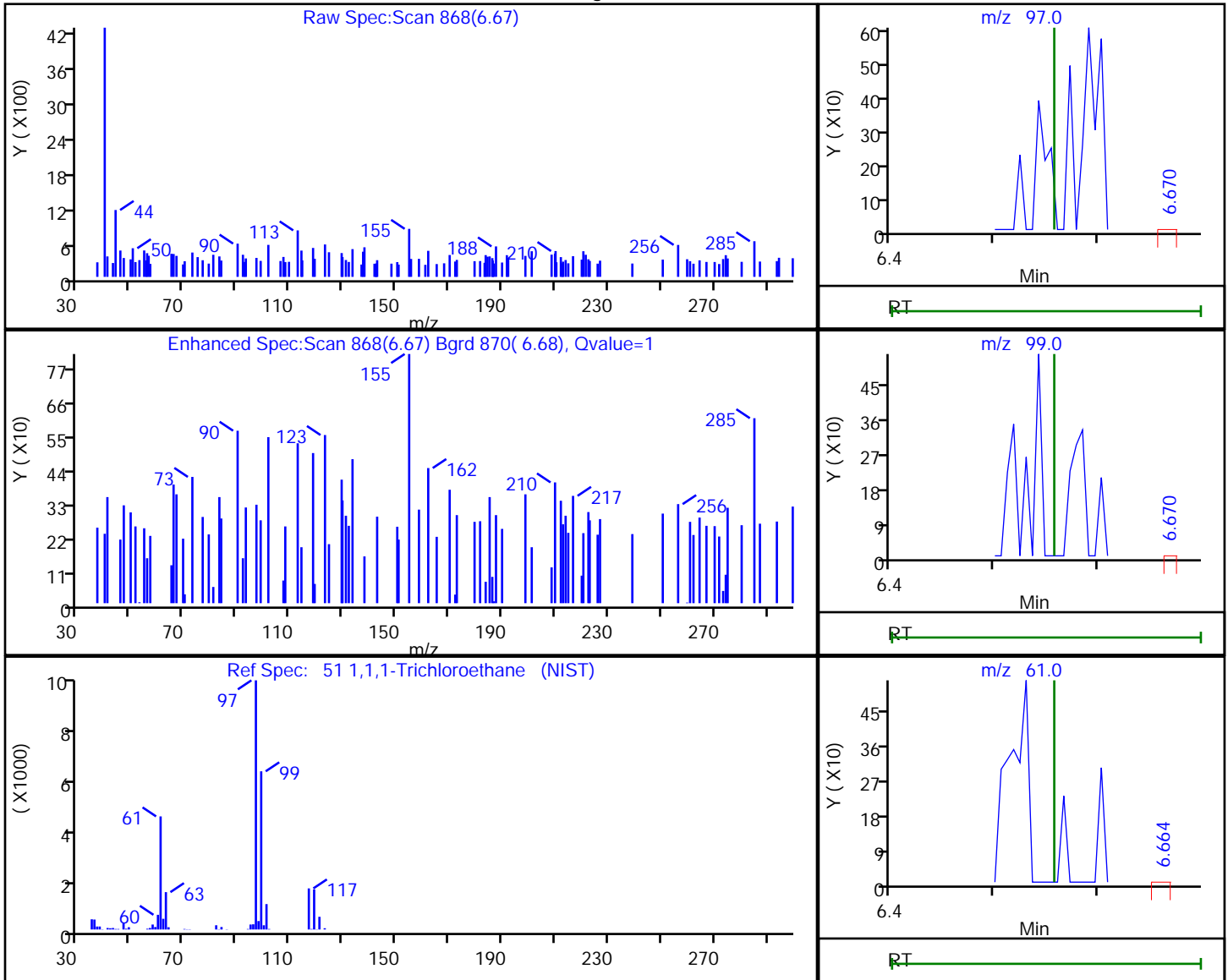


Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012516.D  
 Injection Date: 25-Jan-2020 17:32:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-9 Lab Sample ID: 180-101459-9  
 Client ID: HD-COD-SW-27-0/1-0  
 Operator ID: 433269 ALS Bottle#: 10 Worklist Smp#: 16  
 Purge Vol: 5.000 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
6.67	97.00	198	0.059421
6.67	99.00	99	
6.66	61.00	238	

Reviewer: bowieh, 28-Jan-2020 09:39:56

Audit Action: Marked Compound Undetected

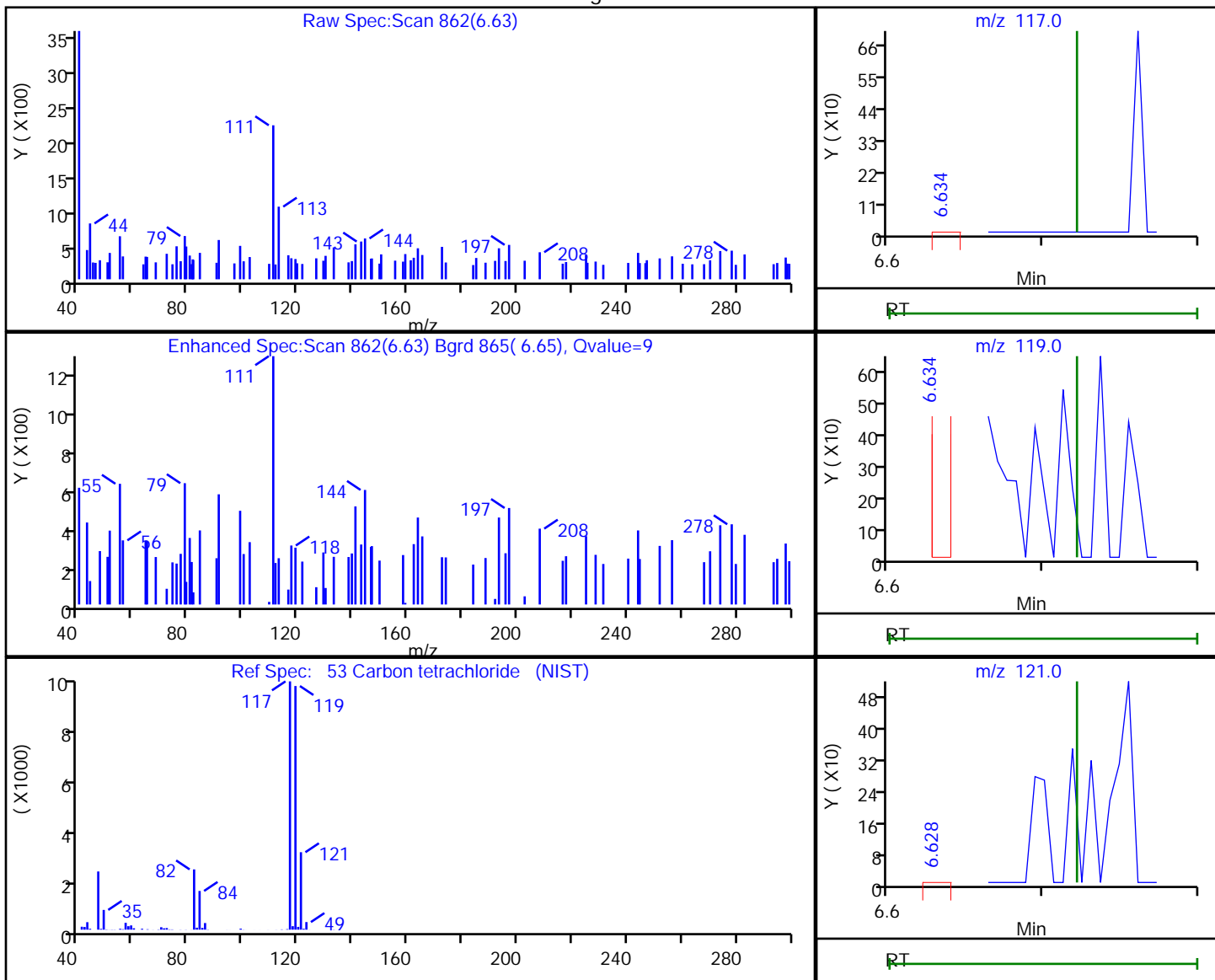
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012516.D  
 Injection Date: 25-Jan-2020 17:32:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-9 Lab Sample ID: 180-101459-9  
 Client ID: HD-COD-SW-27-0/1-0  
 Operator ID: 433269 ALS Bottle#: 10 Worklist Smp#: 16  
 Purge Vol: 5.000 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
6.63	117.00	108	0.038539
6.63	119.00	187	
6.63	121.00	177	

Reviewer: bowieh, 28-Jan-2020 09:39:57

Audit Action: Marked Compound Undetected

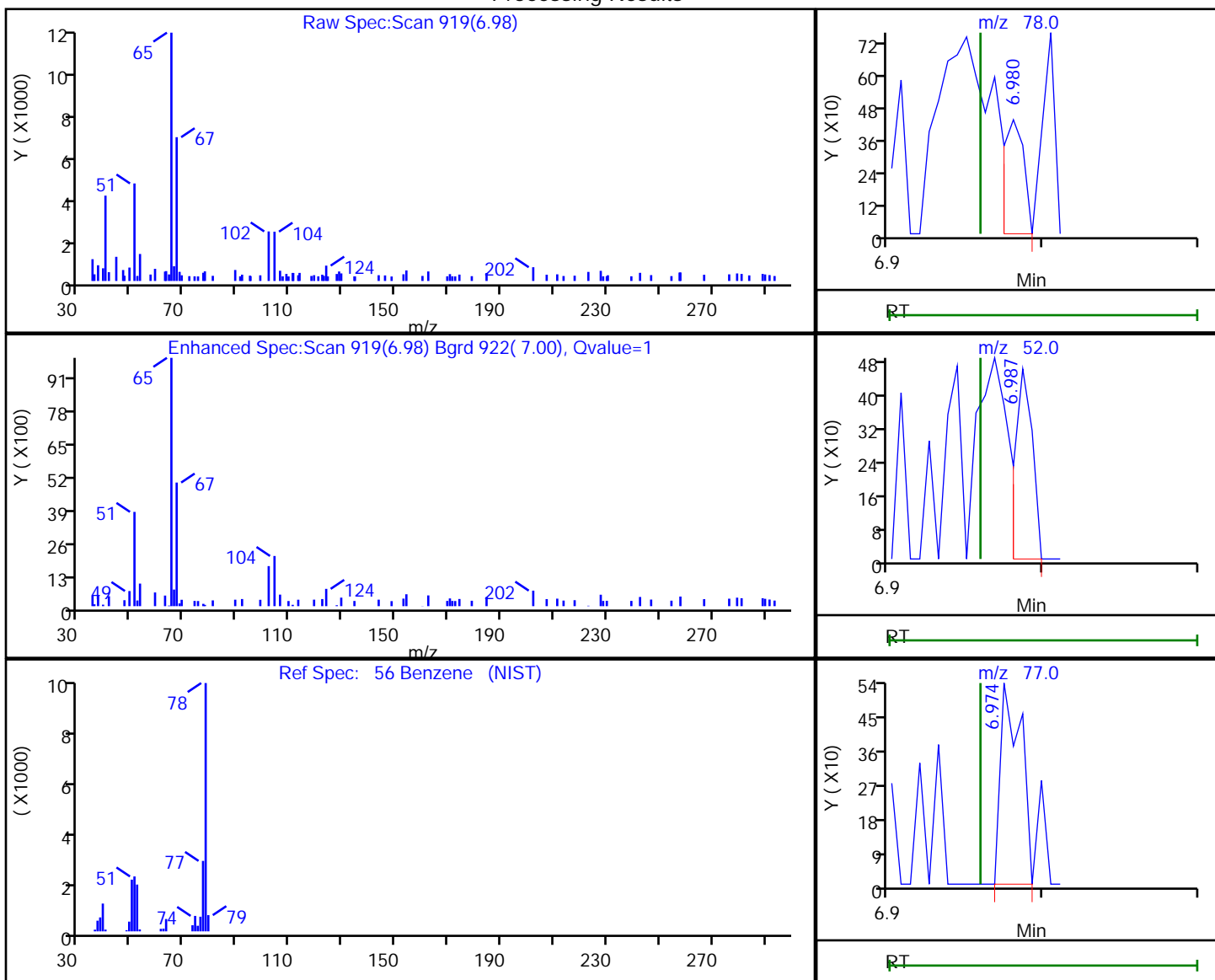
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012516.D  
 Injection Date: 25-Jan-2020 17:32:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-9 Lab Sample ID: 180-101459-9  
 Client ID: HD-COD-SW-27-0/1-0  
 Operator ID: 433269 ALS Bottle#: 10 Worklist Smp#: 16  
 Purge Vol: 5.000 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
6.98	78.00	401	0.037568
6.99	52.00	366	
6.97	77.00	496	

Reviewer: bowieh, 28-Jan-2020 09:39:58

Audit Action: Marked Compound Undetected

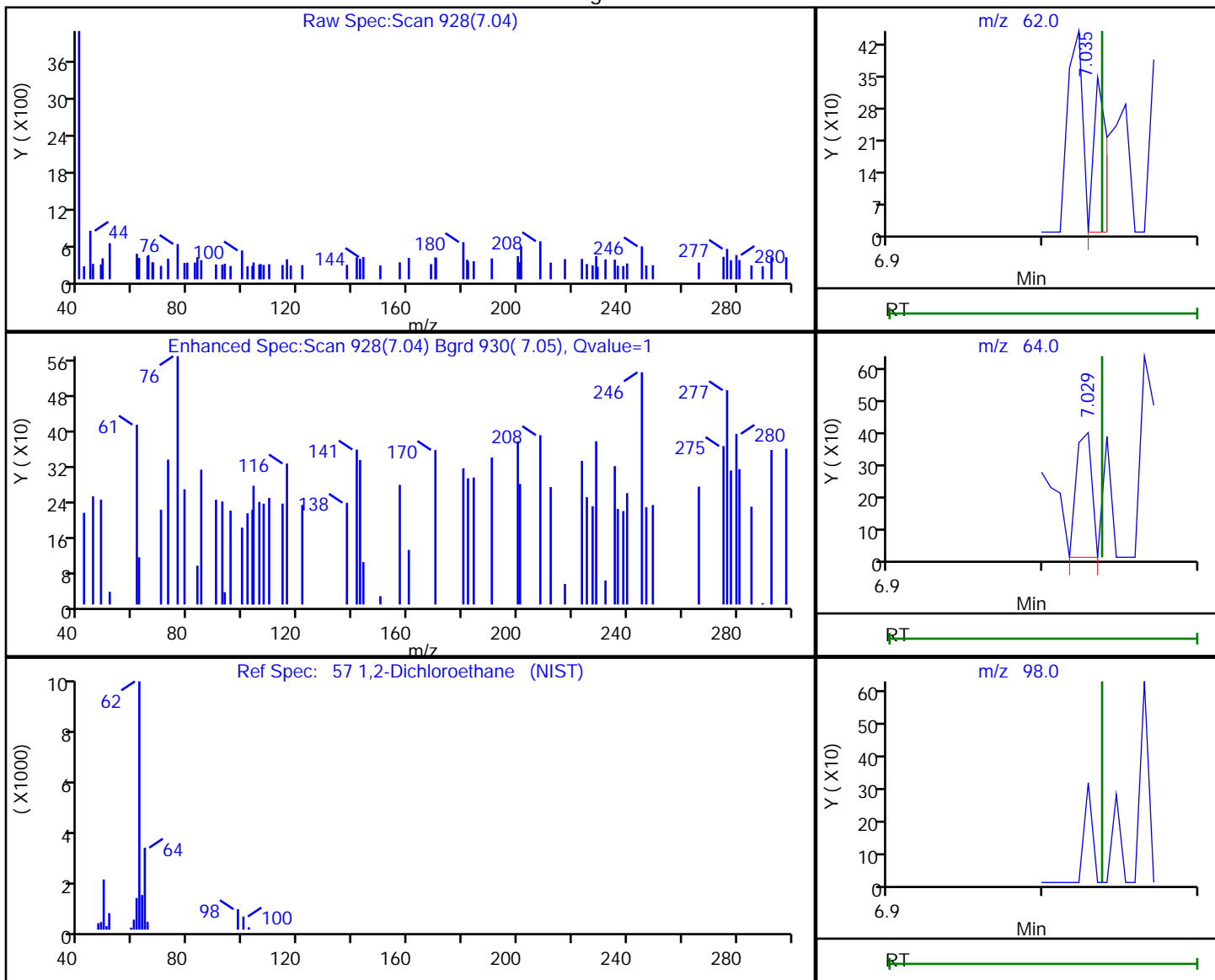
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012516.D  
 Injection Date: 25-Jan-2020 17:32:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-9 Lab Sample ID: 180-101459-9  
 Client ID: HD-COD-SW-27-0/1-0  
 Operator ID: 433269 ALS Bottle#: 10 Worklist Smp#: 16  
 Purge Vol: 5.000 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	203	0.069052
7.03	64.00	278	
7.04	98.00	0	

Reviewer: bowieh, 28-Jan-2020 09:39:59

Audit Action: Marked Compound Undetected

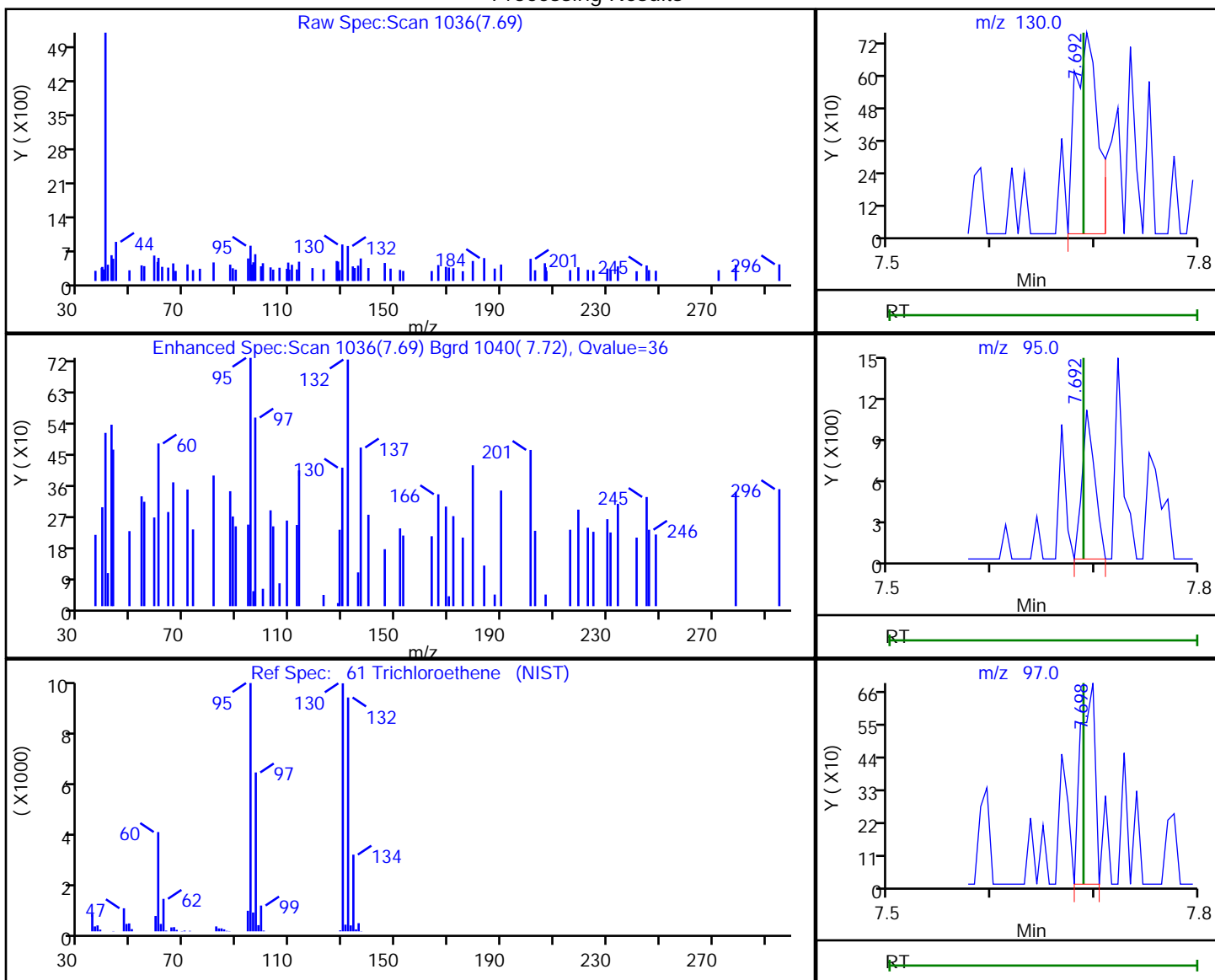
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012516.D  
 Injection Date: 25-Jan-2020 17:32:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-9 Lab Sample ID: 180-101459-9  
 Client ID: HD-COD-SW-27-0/1-0  
 Operator ID: 433269 ALS Bottle#: 10 Worklist Smp#: 16  
 Purge Vol: 5.000 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
7.69	130.00	1150	0.363466
7.69	95.00	909	
7.70	97.00	654	

Reviewer: bowieh, 28-Jan-2020 09:40:00

Audit Action: Marked Compound Undetected

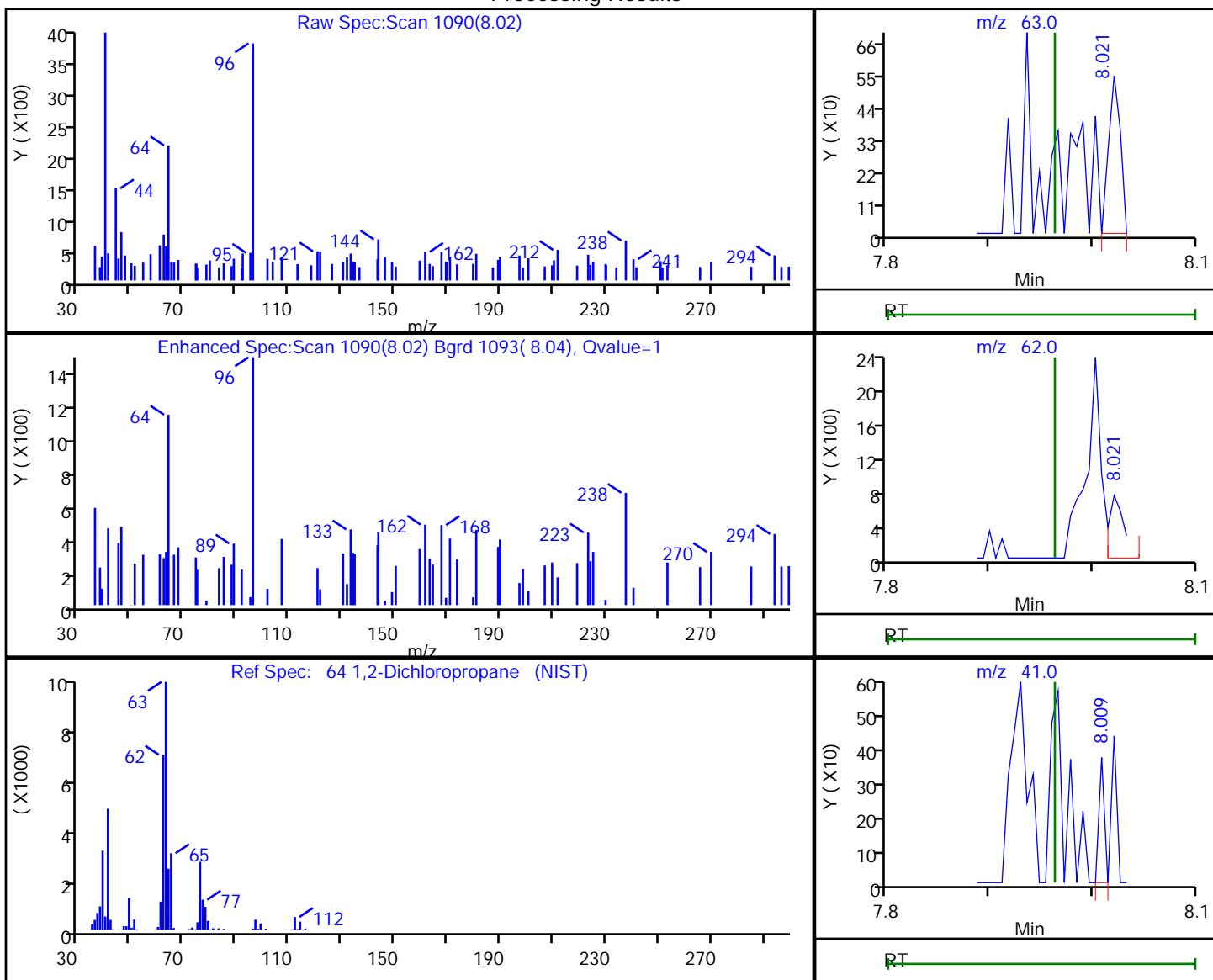
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Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012516.D  
 Injection Date: 25-Jan-2020 17:32:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-9 Lab Sample ID: 180-101459-9  
 Client ID: HD-COD-SW-27-0/1-0  
 Operator ID: 433269 ALS Bottle#: 10 Worklist Smp#: 16  
 Purge Vol: 5.000 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
8.02	63.00	432	0.172895
8.02	62.00	865	
8.01	41.00	135	

Reviewer: bowieh, 28-Jan-2020 09:40:01

Audit Action: Marked Compound Undetected

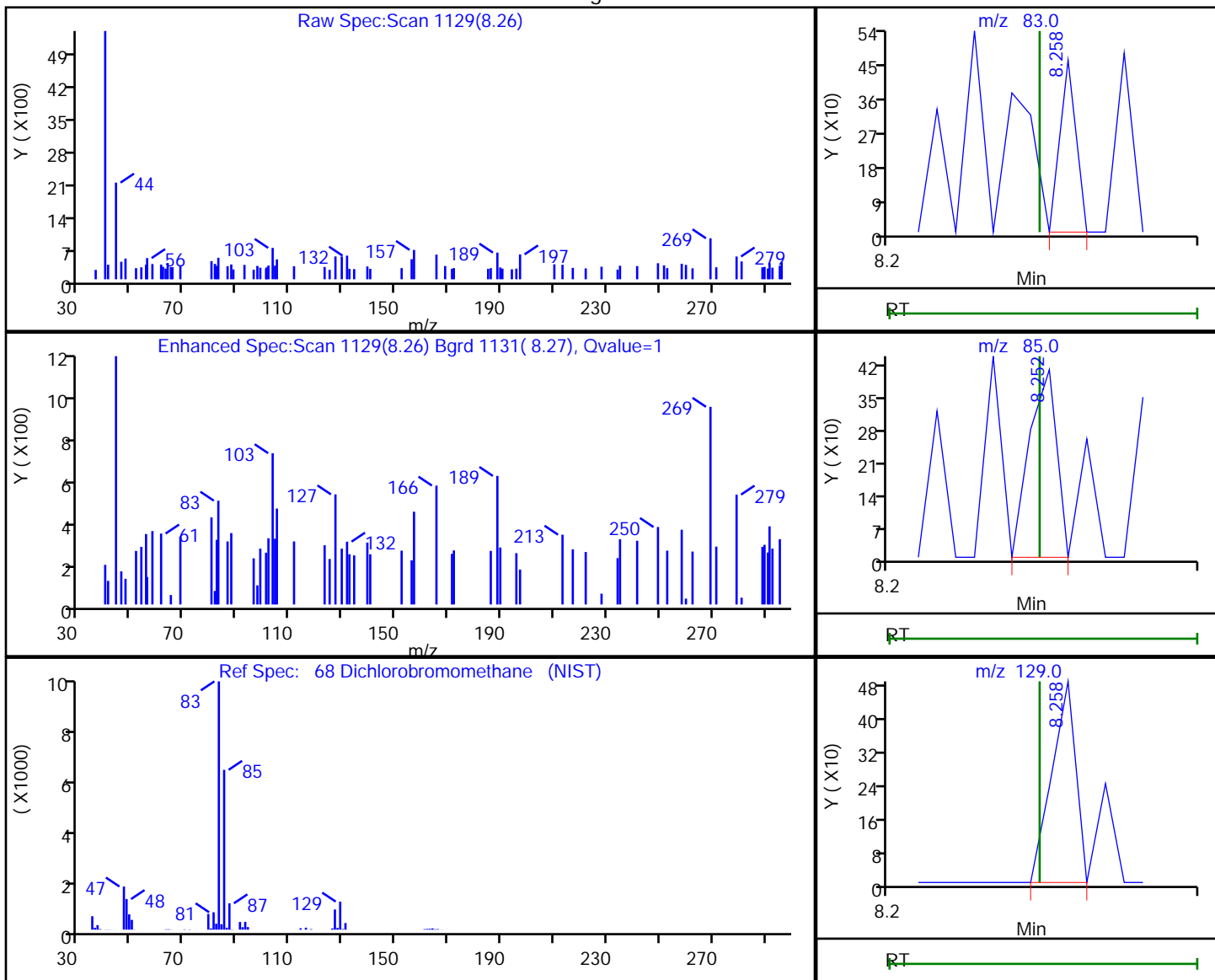
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012516.D  
 Injection Date: 25-Jan-2020 17:32:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-9 Lab Sample ID: 180-101459-9  
 Client ID: HD-COD-SW-27-0/1-0  
 Operator ID: 433269 ALS Bottle#: 10 Worklist Smp#: 16  
 Purge Vol: 5.000 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
8.26	83.00	168	0.071930
8.25	85.00	247	
8.26	129.00	263	

Reviewer: bowieh, 28-Jan-2020 09:40:03

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

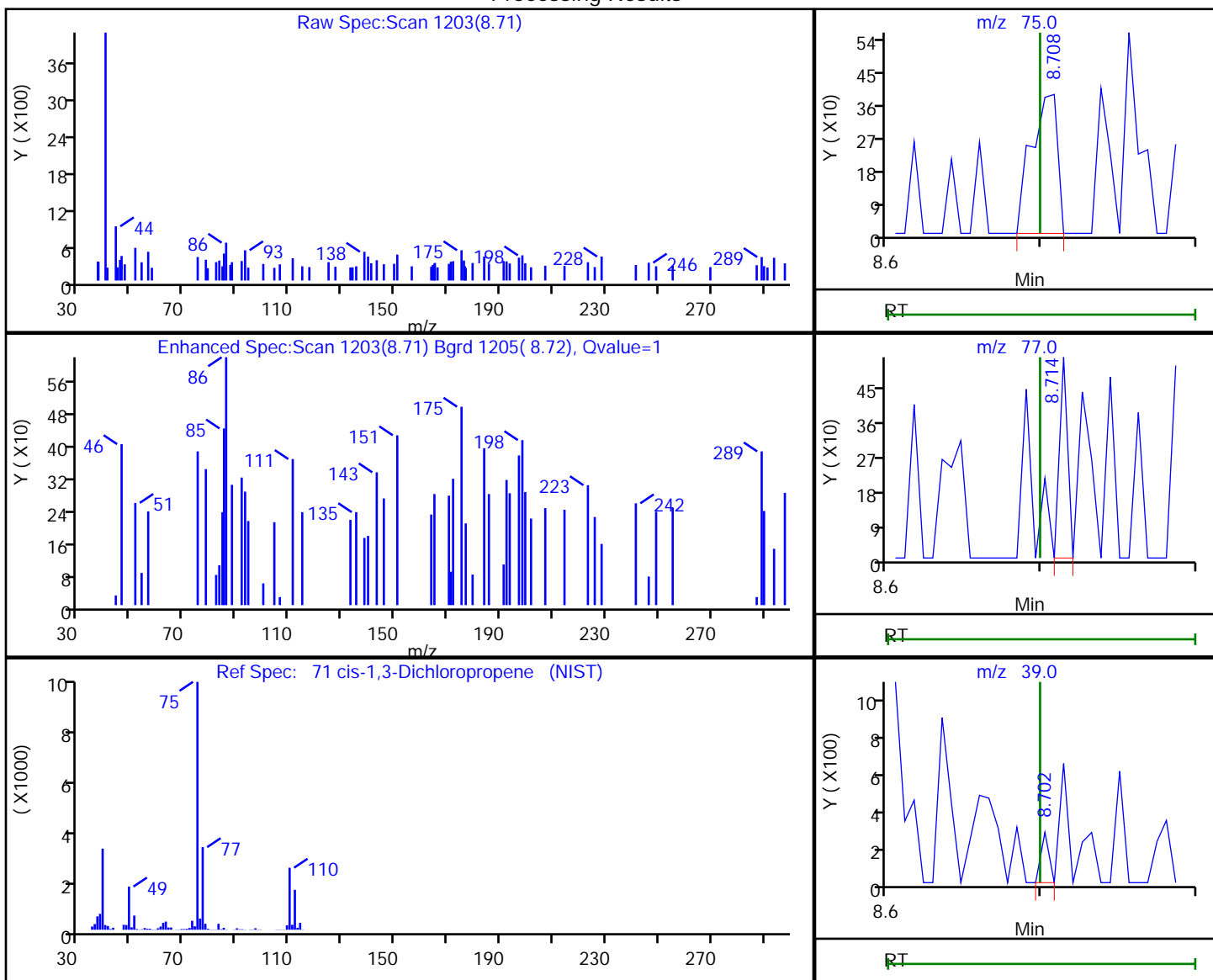


Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012516.D  
 Injection Date: 25-Jan-2020 17:32:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-9 Lab Sample ID: 180-101459-9  
 Client ID: HD-COD-SW-27-0/1-0  
 Operator ID: 433269 ALS Bottle#: 10 Worklist Smp#: 16  
 Purge Vol: 5.000 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	450	0.148989
8.71	77.00	192	
8.70	39.00	95	

Reviewer: bowieh, 28-Jan-2020 09:40:04

Audit Action: Marked Compound Undetected

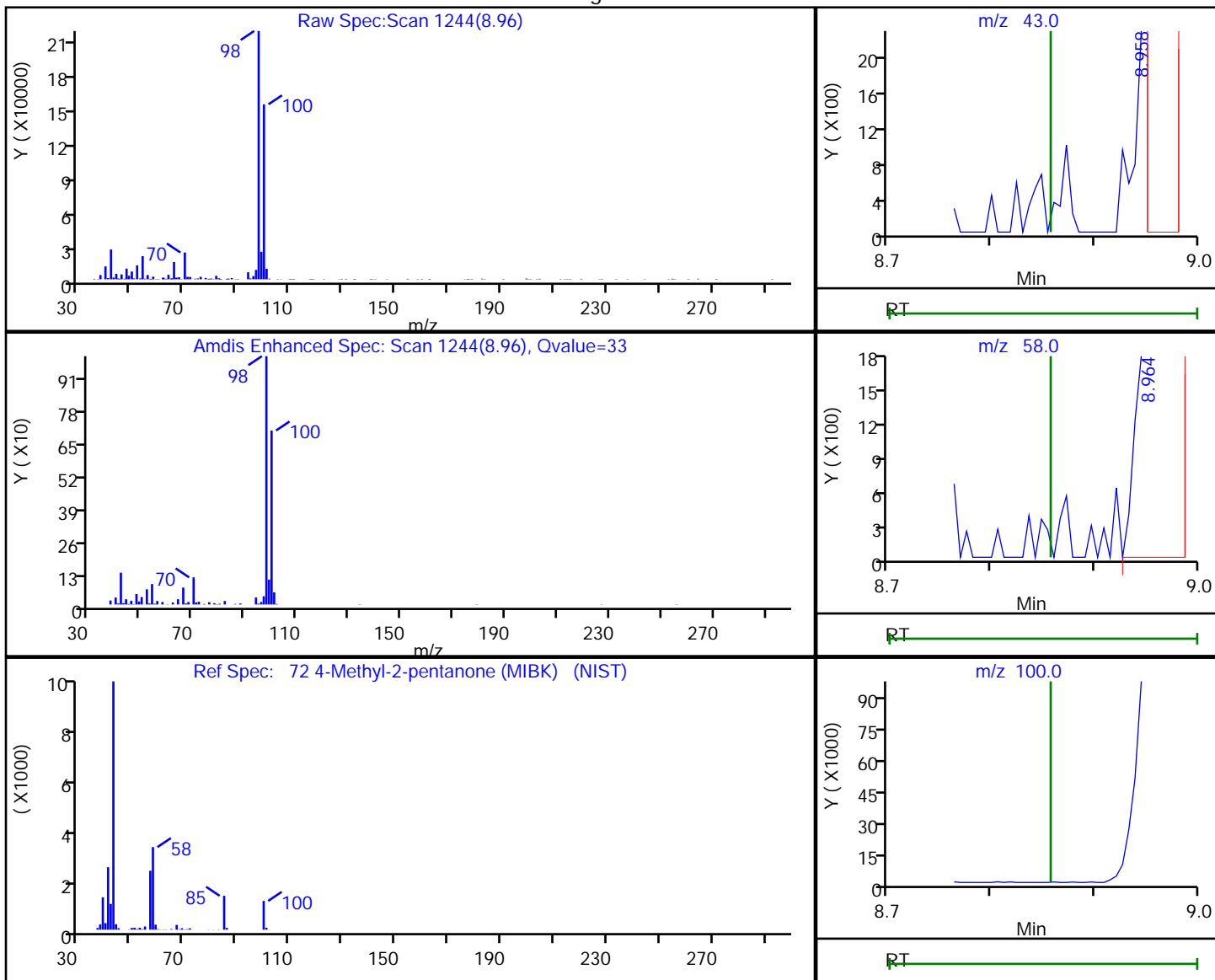
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012516.D  
 Injection Date: 25-Jan-2020 17:32:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-9 Lab Sample ID: 180-101459-9  
 Client ID: HD-COD-SW-27-0/1-0  
 Operator ID: 433269 ALS Bottle#: 10 Worklist Smp#: 16  
 Purge Vol: 5.000 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	1891	0.906759
8.96	58.00	4575	
8.96	100.00	294441	

Reviewer: bowieh, 28-Jan-2020 09:40:05

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

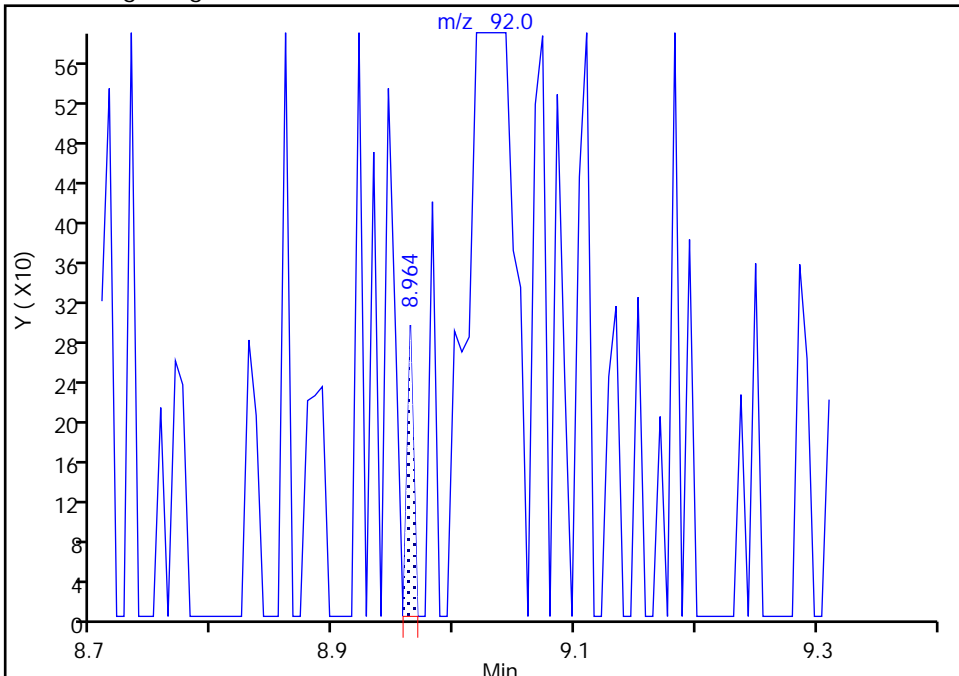
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Injection Date: 25-Jan-2020 17:32:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-9 Lab Sample ID: 180-101459-9  
Client ID: HD-COD-SW-27-0/1-0  
Operator ID: 433269 ALS Bottle#: 10 Worklist Smp#: 16  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
Column: DB-624 (0.18 mm) Detector: MS SCAN

73 Toluene, CAS: 108-88-3

Signal: 2

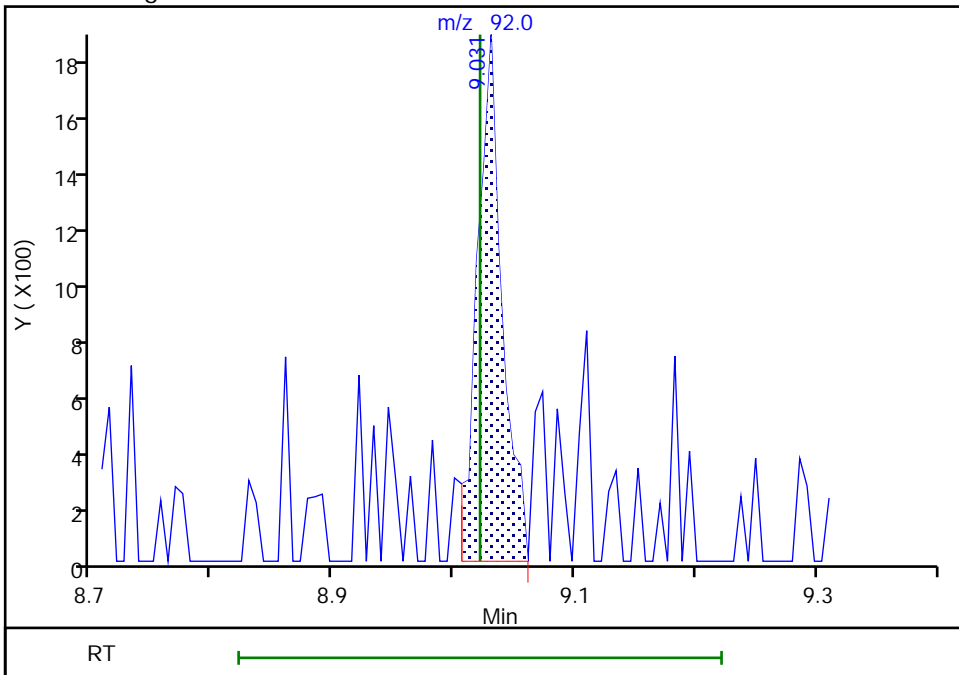
RT: 8.96  
Area: 107  
Amount: 0.028959  
Amount Units: ng

Processing Integration Results



RT: 9.03  
Area: 2602  
Amount: 0.231945  
Amount Units: ng

Manual Integration Results





Eurofins TestAmerica, Pittsburgh

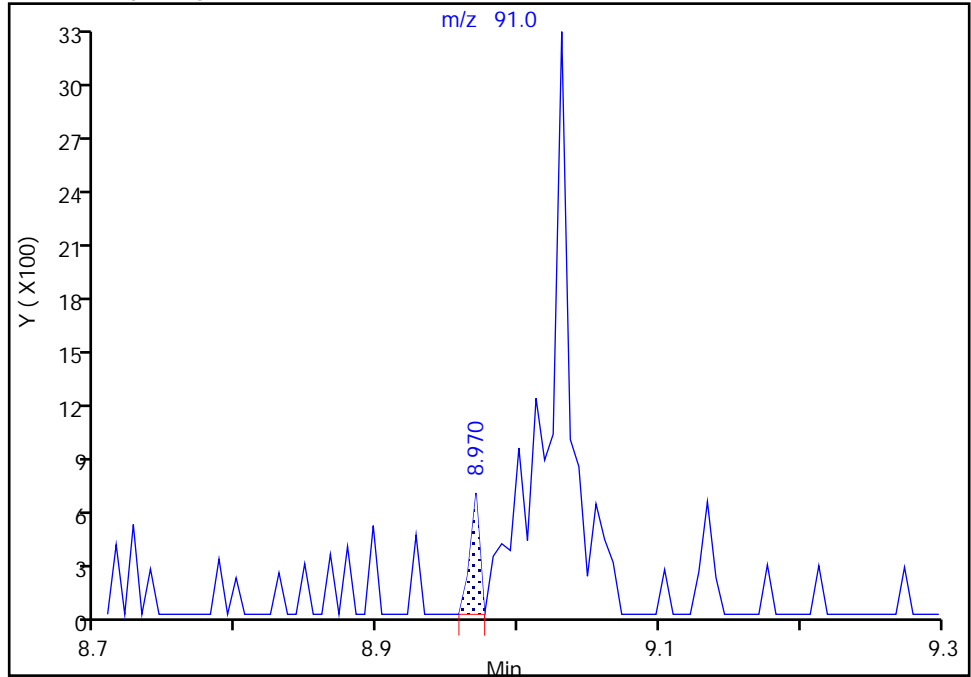
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Lims ID: 180-101459-B-9 Lab Sample ID: 180-101459-9  
Client ID: HD-COD-SW-27-0/1-0  
Operator ID: 433269 ALS Bottle#: 10 Worklist Smp#: 16  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
Column: DB-624 (0.18 mm) Detector: MS SCAN

73 Toluene, CAS: 108-88-3

Signal: 1

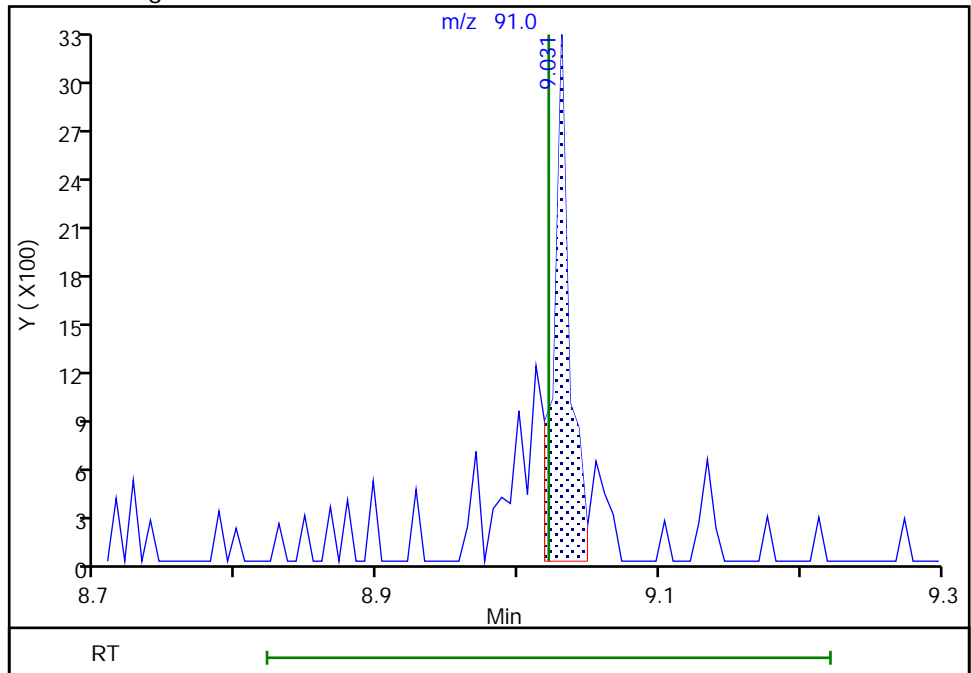
RT: 8.97  
Area: 321  
Amount: 0.028959  
Amount Units: ng

Processing Integration Results



RT: 9.03  
Area: 2571  
Amount: 0.231945  
Amount Units: ng

Manual Integration Results

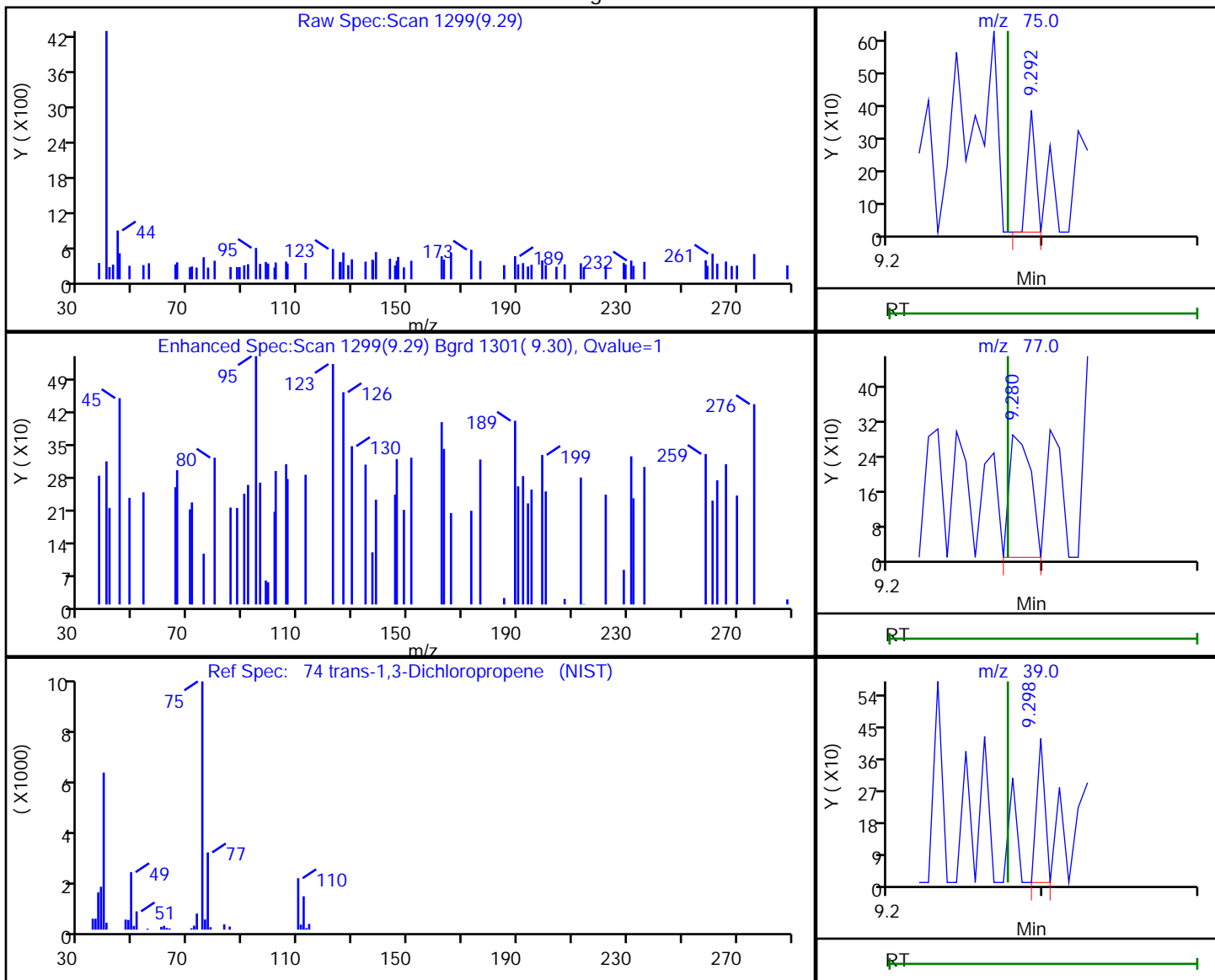


Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012516.D  
 Injection Date: 25-Jan-2020 17:32:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-9 Lab Sample ID: 180-101459-9  
 Client ID: HD-COD-SW-27-0/1-0  
 Operator ID: 433269 ALS Bottle#: 10 Worklist Smp#: 16  
 Purge Vol: 5.000 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
9.29	75.00	138	0.056945
9.28	77.00	274	
9.30	39.00	151	

Reviewer: bowieh, 28-Jan-2020 09:40:11

Audit Action: Marked Compound Undetected

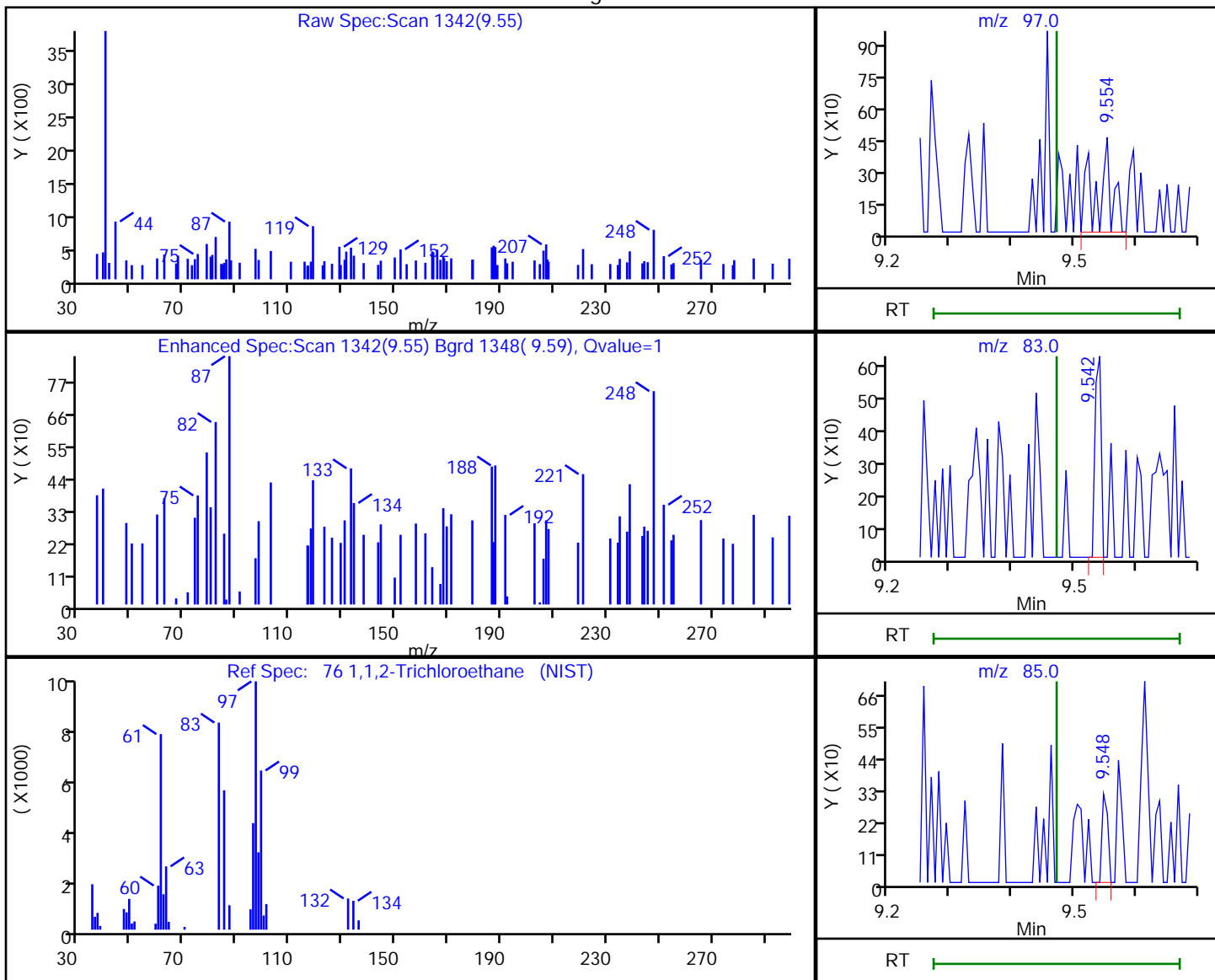
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012516.D  
 Injection Date: 25-Jan-2020 17:32:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-9 Lab Sample ID: 180-101459-9  
 Client ID: HD-COD-SW-27-0/1-0  
 Operator ID: 433269 ALS Bottle#: 10 Worklist Smp#: 16  
 Purge Vol: 5.000 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
9.55	97.00	754	0.373894
9.54	83.00	429	
9.55	85.00	203	

Reviewer: bowieh, 28-Jan-2020 09:40:12

Audit Action: Marked Compound Undetected

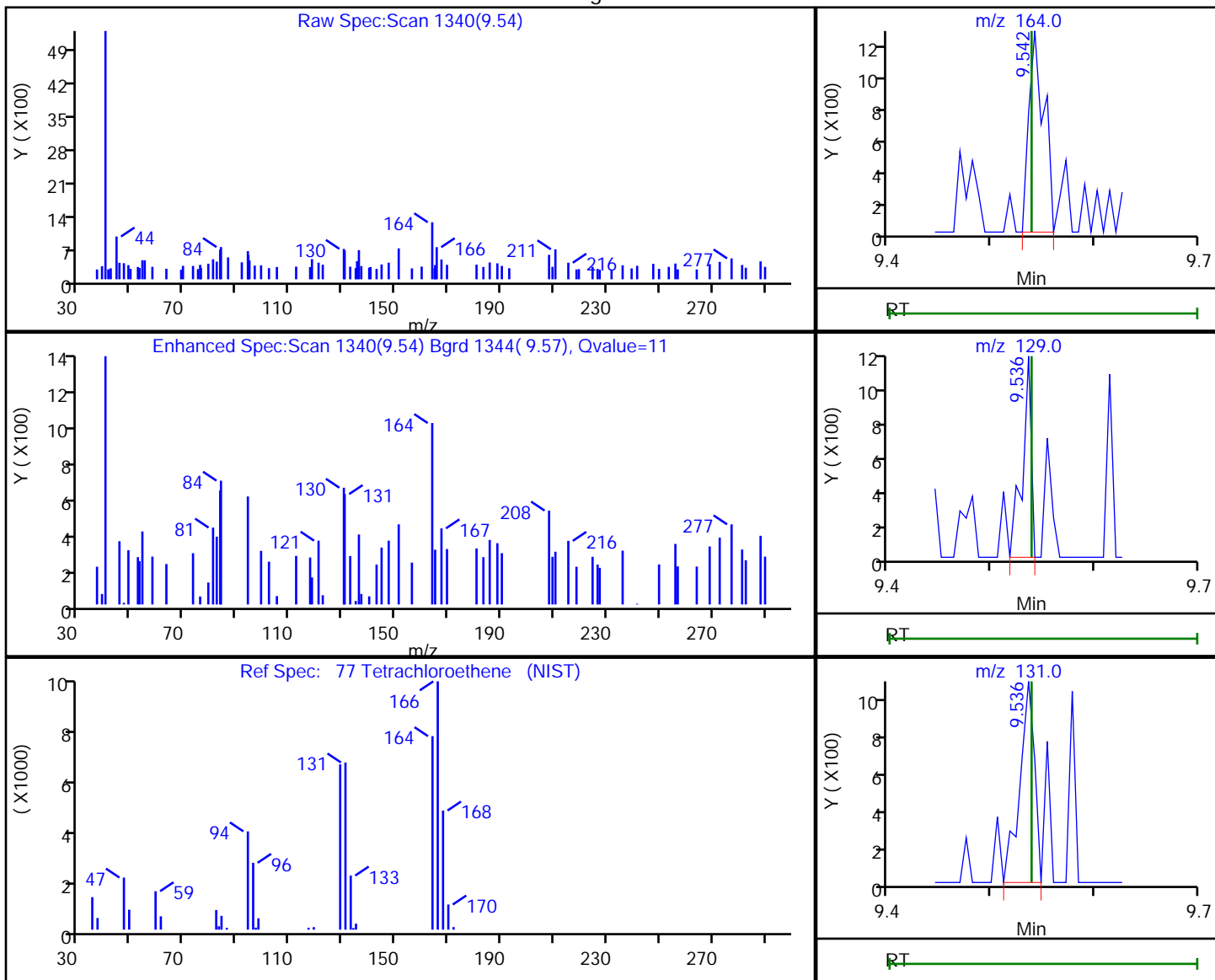
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012516.D  
 Injection Date: 25-Jan-2020 17:32:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-9 Lab Sample ID: 180-101459-9  
 Client ID: HD-COD-SW-27-0/1-0  
 Operator ID: 433269 ALS Bottle#: 10 Worklist Smp#: 16  
 Purge Vol: 5.000 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	1238	0.452078
9.54	129.00	705	
9.54	131.00	996	

Reviewer: bowieh, 28-Jan-2020 09:40:13

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

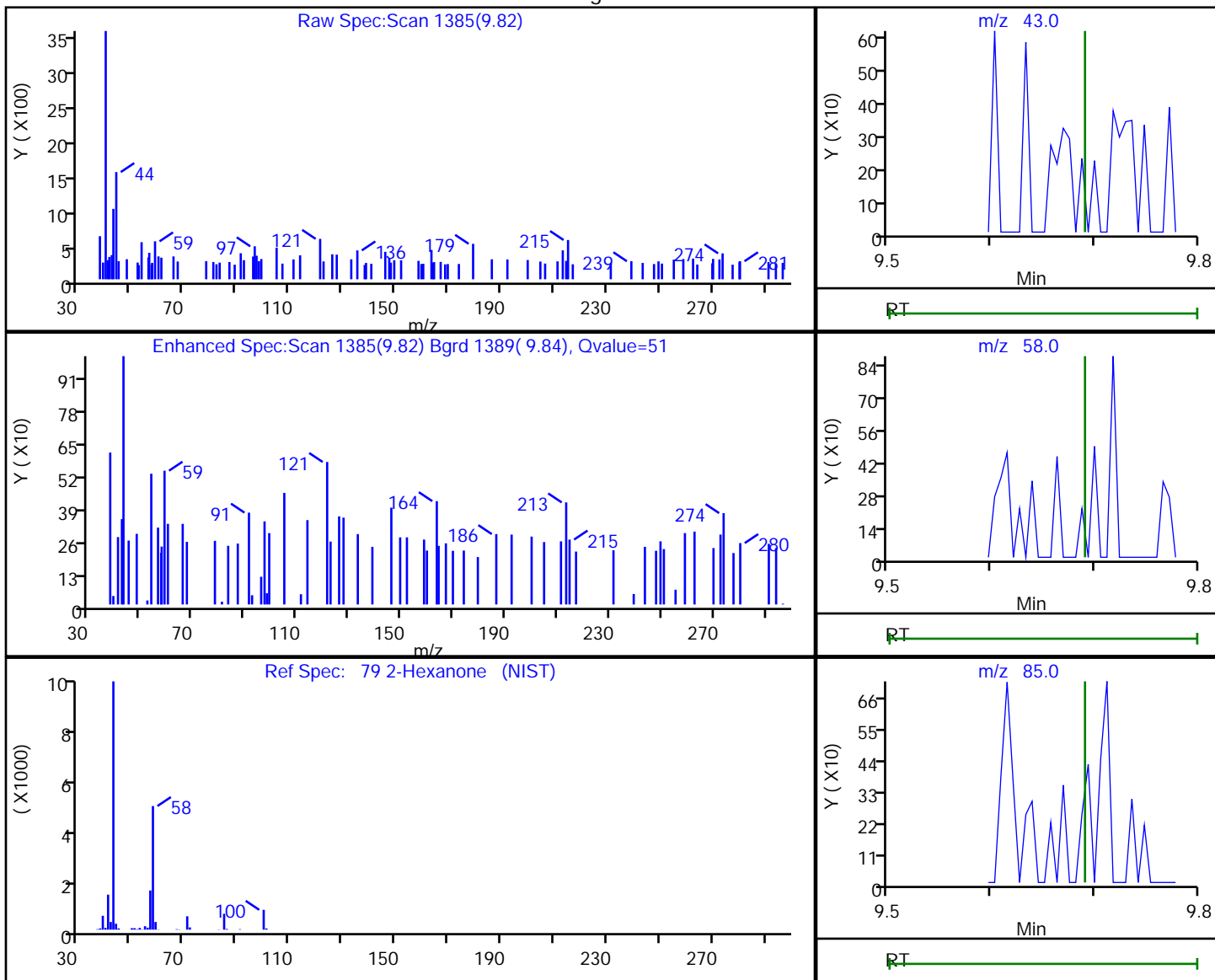


Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012516.D  
Injection Date: 25-Jan-2020 17:32:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-9 Lab Sample ID: 180-101459-9  
Client ID: HD-COD-SW-27-0/1-0  
Operator ID: 433269 ALS Bottle#: 10 Worklist Smp#: 16  
Purge Vol: 5.000 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
9.82	43.00	800	0.445329
9.69	58.00	0	
9.69	85.00	0	

Reviewer: bowieh, 28-Jan-2020 09:40:14

Audit Action: Marked Compound Undetected

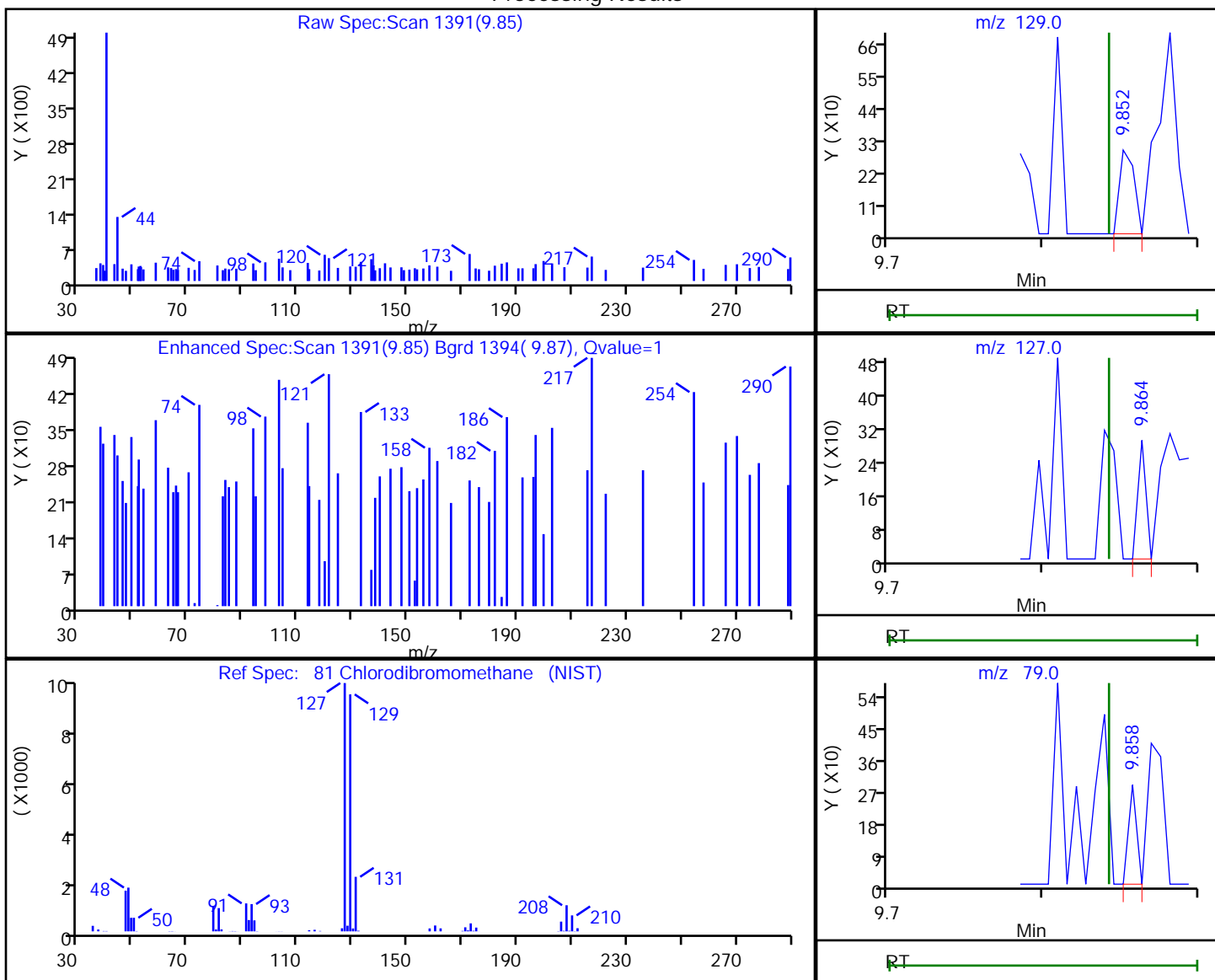
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012516.D  
Injection Date: 25-Jan-2020 17:32:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-9 Lab Sample ID: 180-101459-9  
Client ID: HD-COD-SW-27-0/1-0  
Operator ID: 433269 ALS Bottle#: 10 Worklist Smp#: 16  
Purge Vol: 5.000 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
9.85	129.00	191	0.112142
9.86	127.00	104	
9.86	79.00	103	

Reviewer: bowieh, 28-Jan-2020 09:40:16

Audit Action: Marked Compound Undetected

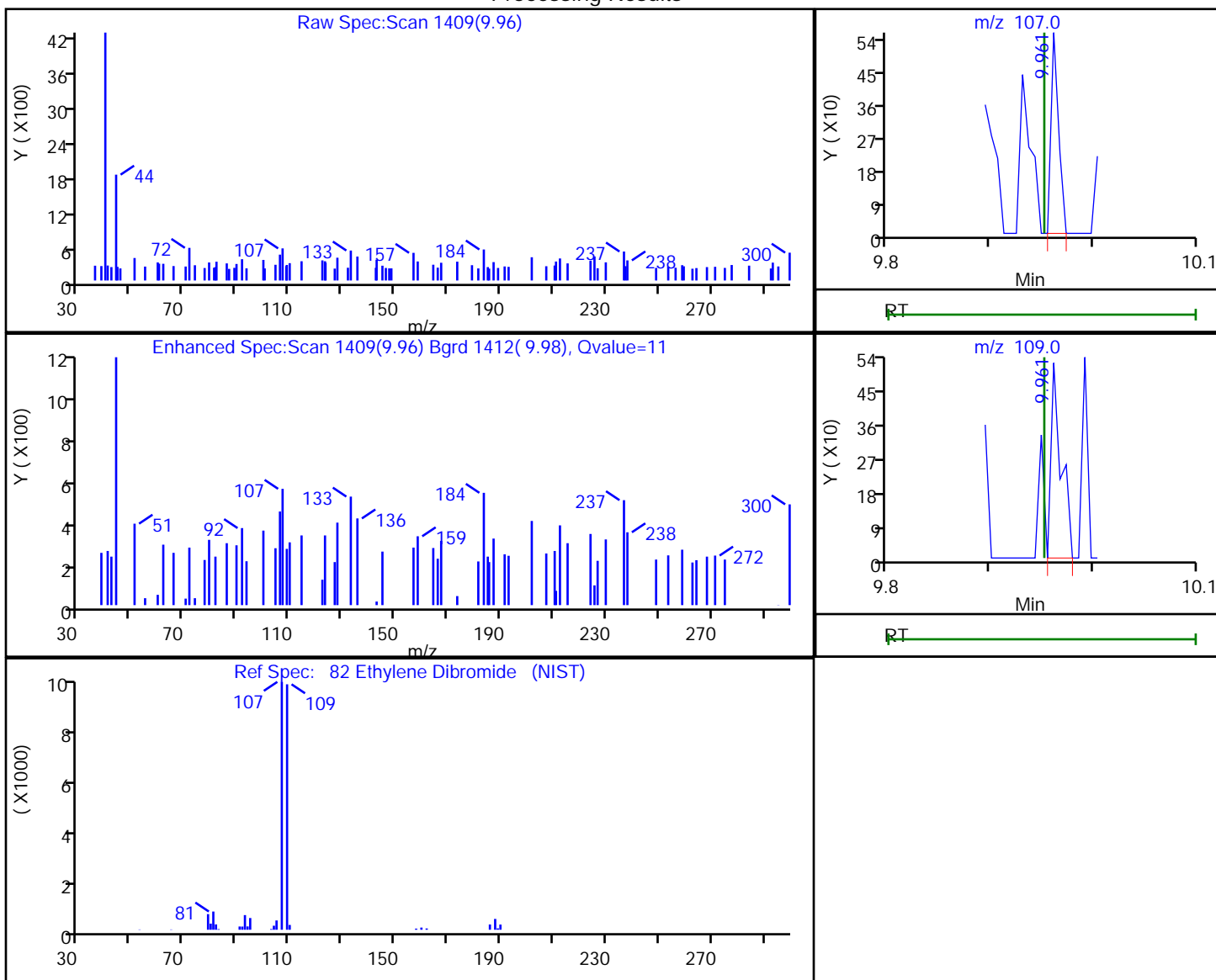
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012516.D  
 Injection Date: 25-Jan-2020 17:32:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-9 Lab Sample ID: 180-101459-9  
 Client ID: HD-COD-SW-27-0/1-0  
 Operator ID: 433269 ALS Bottle#: 10 Worklist Smp#: 16  
 Purge Vol: 5.000 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
9.96	107.00	283	0.142195
9.96	109.00	355	

Reviewer: bowieh, 28-Jan-2020 09:40:17

Audit Action: Marked Compound Undetected

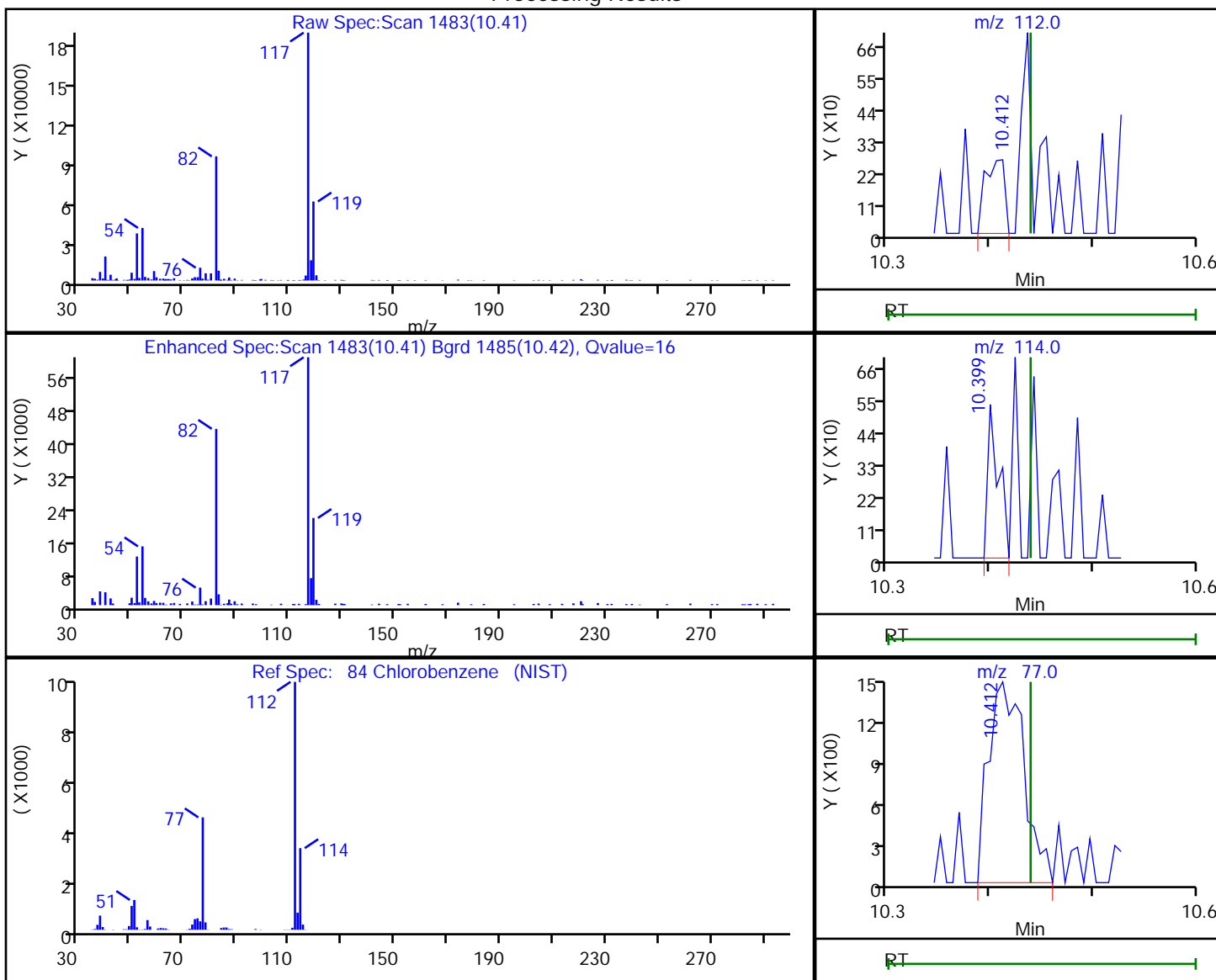
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Injection Date: 25-Jan-2020 17:32:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-9 Lab Sample ID: 180-101459-9  
 Client ID: HD-COD-SW-27-0/1-0  
 Operator ID: 433269 ALS Bottle#: 10 Worklist Smp#: 16  
 Purge Vol: 5.000 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
10.41	112.00	342	0.046286
10.40	114.00	400	
10.41	77.00	3459	

Reviewer: bowieh, 28-Jan-2020 09:40:18

Audit Action: Marked Compound Undetected

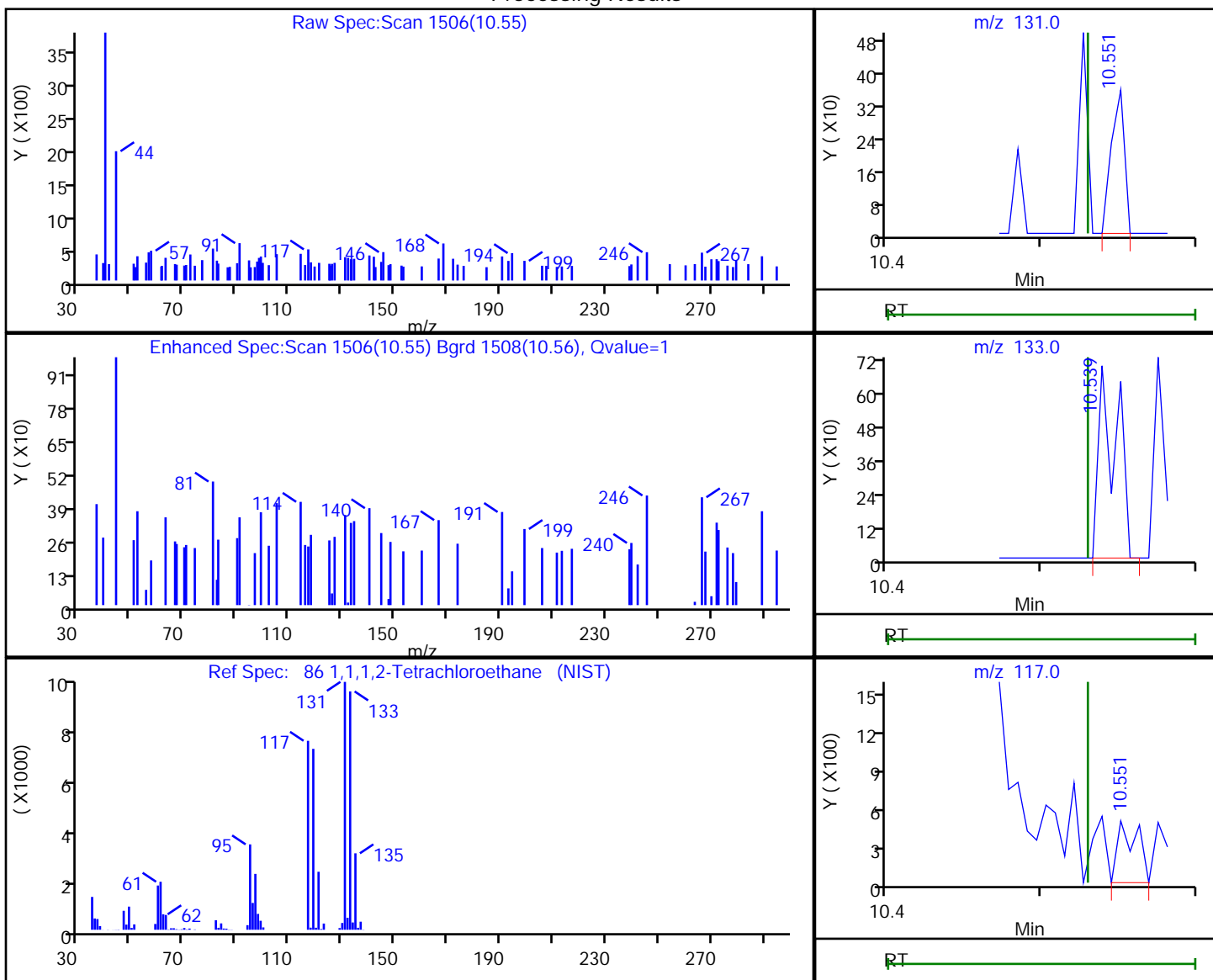
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012516.D  
 Injection Date: 25-Jan-2020 17:32:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-9 Lab Sample ID: 180-101459-9  
 Client ID: HD-COD-SW-27-0/1-0  
 Operator ID: 433269 ALS Bottle#: 10 Worklist Smp#: 16  
 Purge Vol: 5.000 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
10.55	131.00	211	0.097218
10.54	133.00	574	
10.55	117.00	423	

Reviewer: bowieh, 28-Jan-2020 09:40:19

Audit Action: Marked Compound Undetected

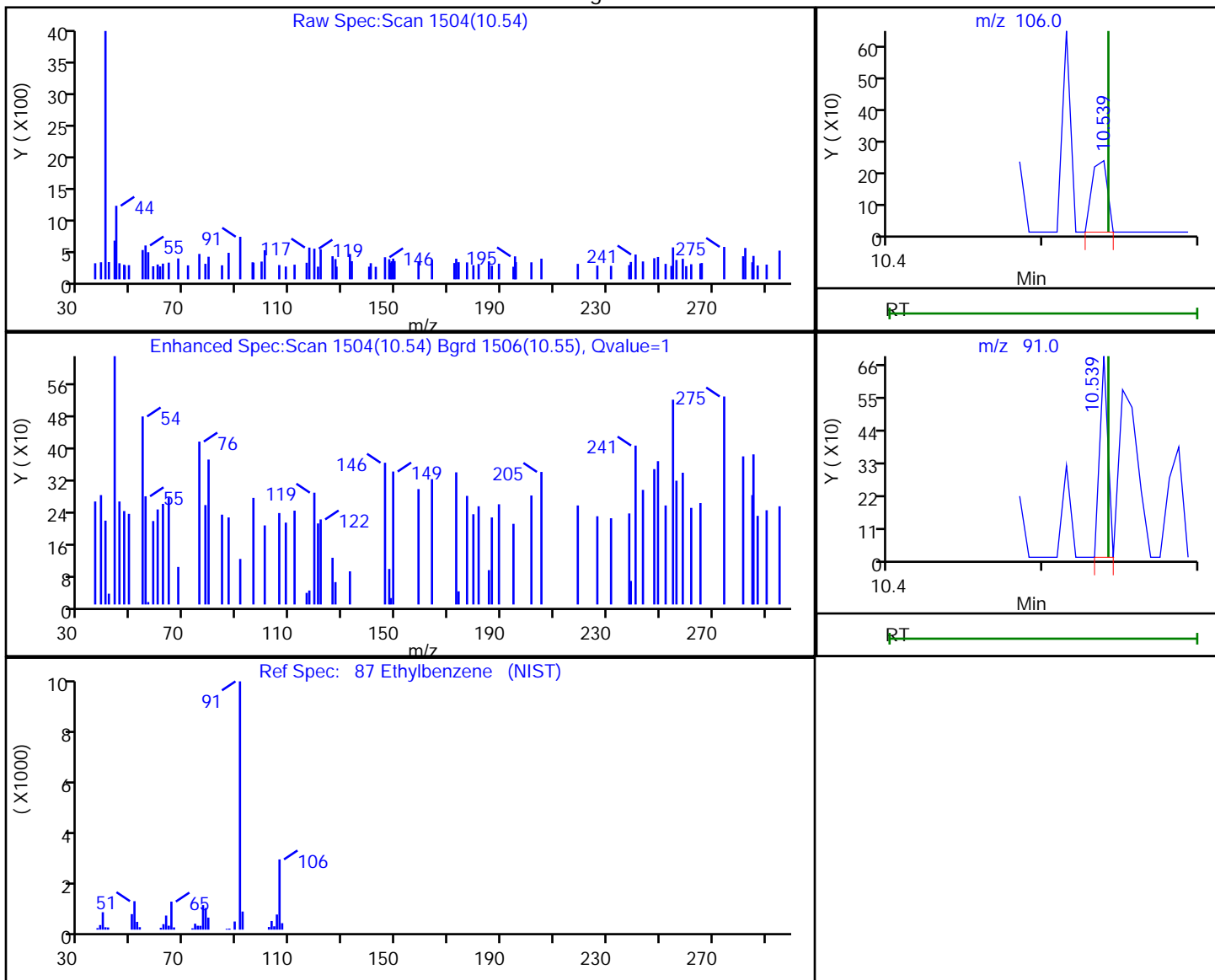
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012516.D  
Injection Date: 25-Jan-2020 17:32:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-9 Lab Sample ID: 180-101459-9  
Client ID: HD-COD-SW-27-0/1-0  
Operator ID: 433269 ALS Bottle#: 10 Worklist Smp#: 16  
Purge Vol: 5.000 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
10.54	106.00	160	0.037839
10.54	91.00	250	

Reviewer: bowieh, 28-Jan-2020 09:40:20

Audit Action: Marked Compound Undetected

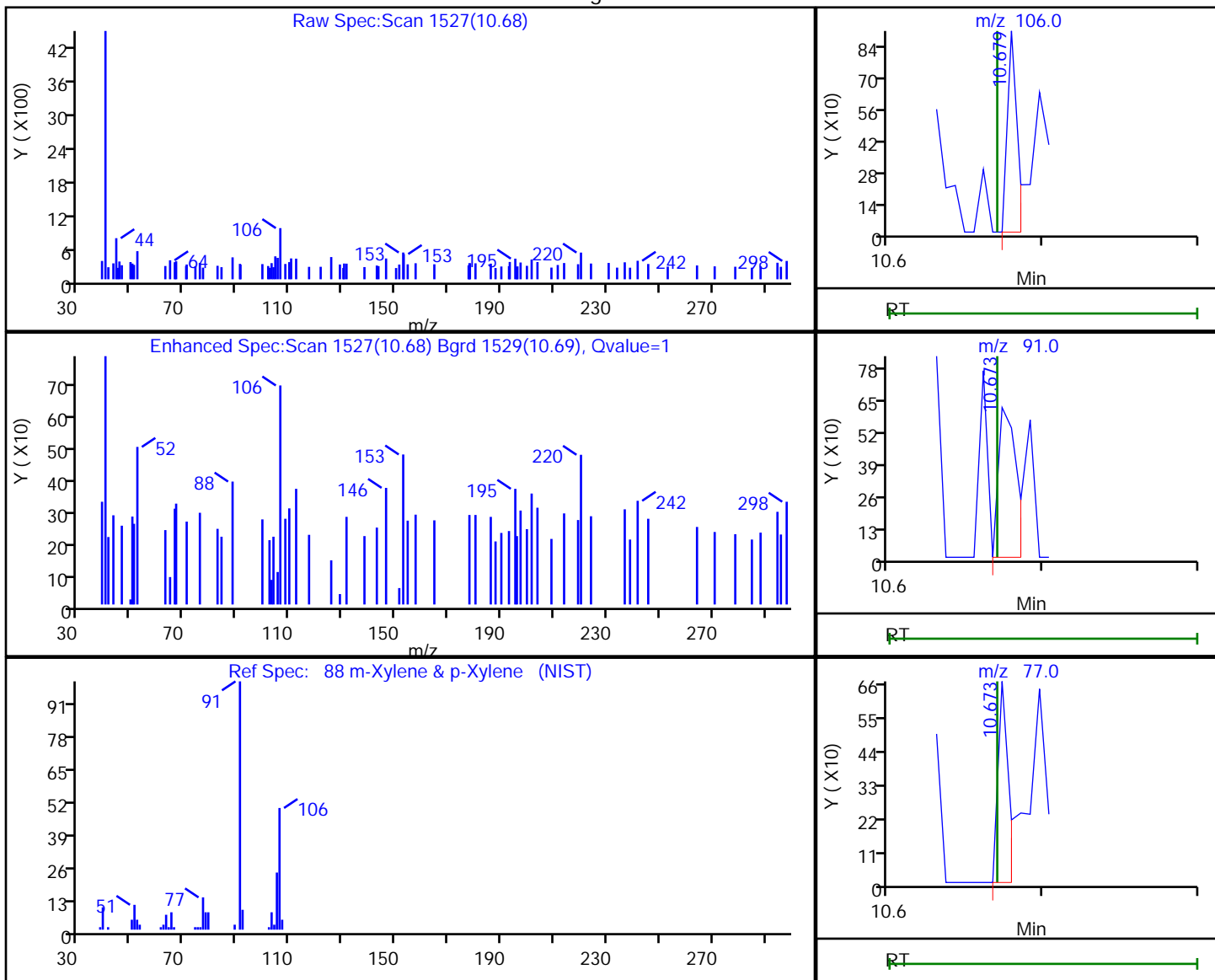
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012516.D  
 Injection Date: 25-Jan-2020 17:32:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-9 Lab Sample ID: 180-101459-9  
 Client ID: HD-COD-SW-27-0/1-0  
 Operator ID: 433269 ALS Bottle#: 10 Worklist Smp#: 16  
 Purge Vol: 5.000 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
10.68	106.00	410	0.080888
10.67	91.00	507	
10.67	77.00	319	

Reviewer: bowieh, 28-Jan-2020 09:40:21

Audit Action: Marked Compound Undetected

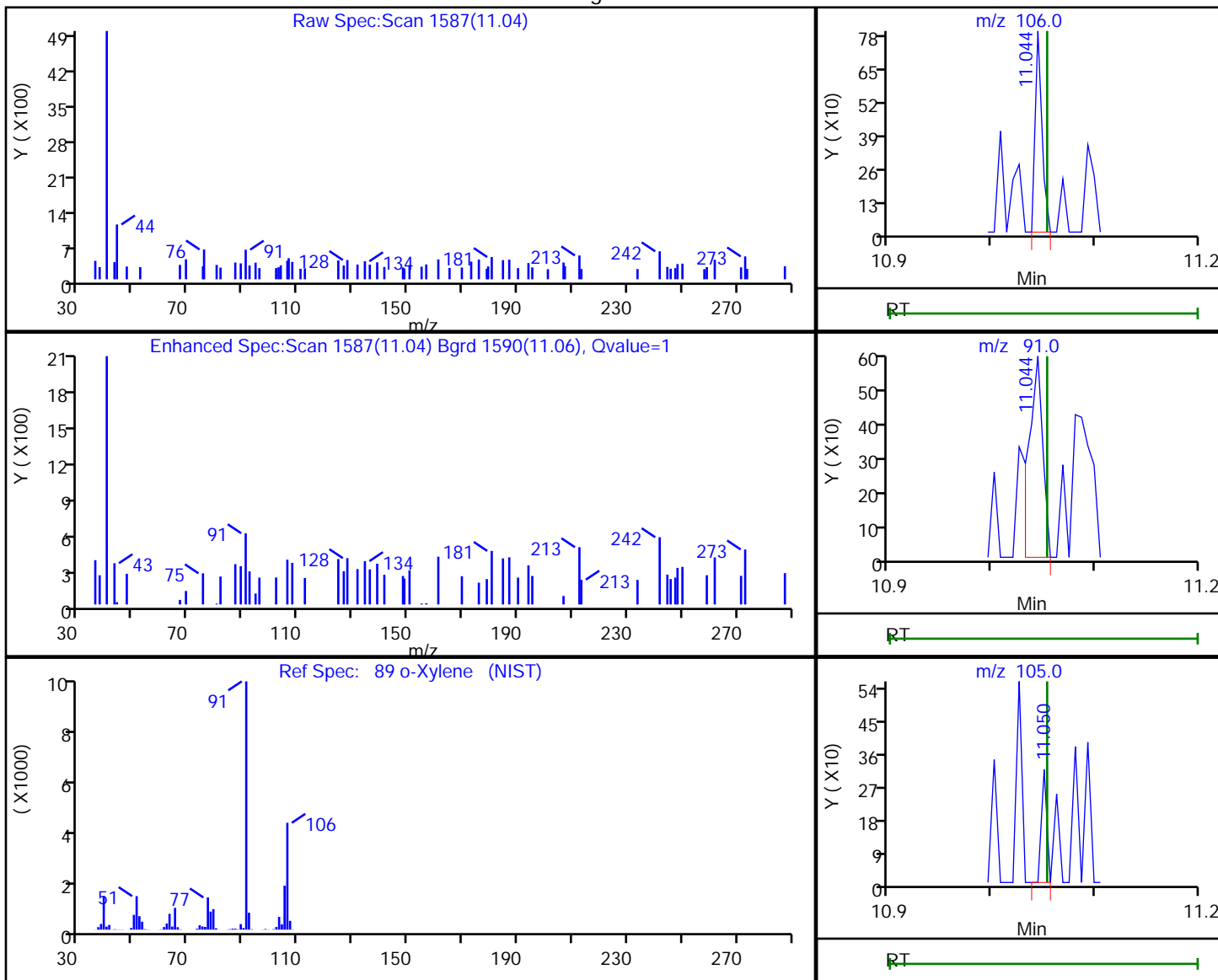
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Injection Date: 25-Jan-2020 17:32:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-9 Lab Sample ID: 180-101459-9  
 Client ID: HD-COD-SW-27-0/1-0  
 Operator ID: 433269 ALS Bottle#: 10 Worklist Smp#: 16  
 Purge Vol: 5.000 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
11.04	106.00	366	0.075890
11.04	91.00	554	
11.05	105.00	113	

Reviewer: bowieh, 28-Jan-2020 09:40:22

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

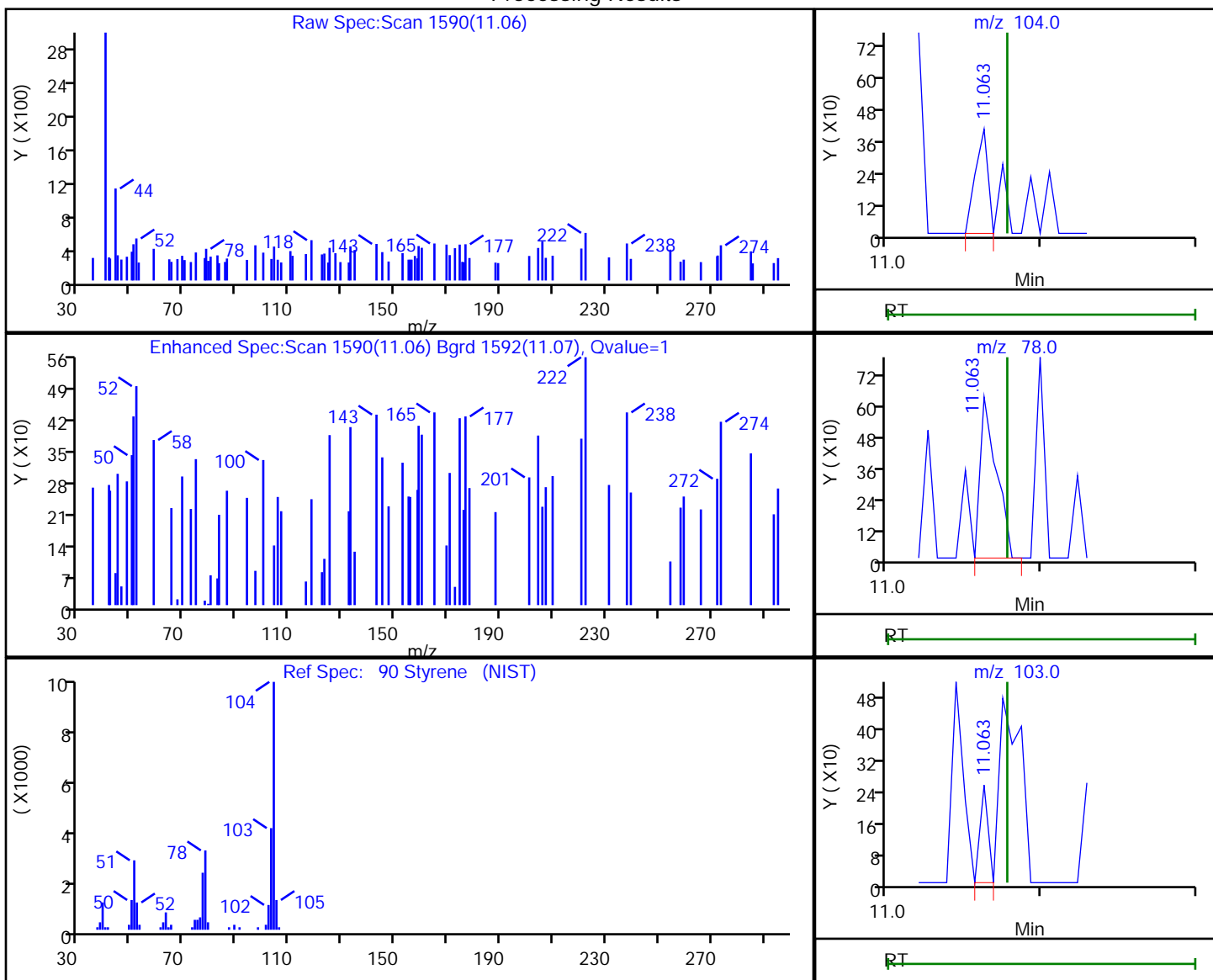


Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012516.D  
 Injection Date: 25-Jan-2020 17:32:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-9 Lab Sample ID: 180-101459-9  
 Client ID: HD-COD-SW-27-0/1-0  
 Operator ID: 433269 ALS Bottle#: 10 Worklist Smp#: 16  
 Purge Vol: 5.000 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
11.06	104.00	226	0.029581
11.06	78.00	463	
11.06	103.00	92	

Reviewer: bowieh, 28-Jan-2020 09:40:24

Audit Action: Marked Compound Undetected

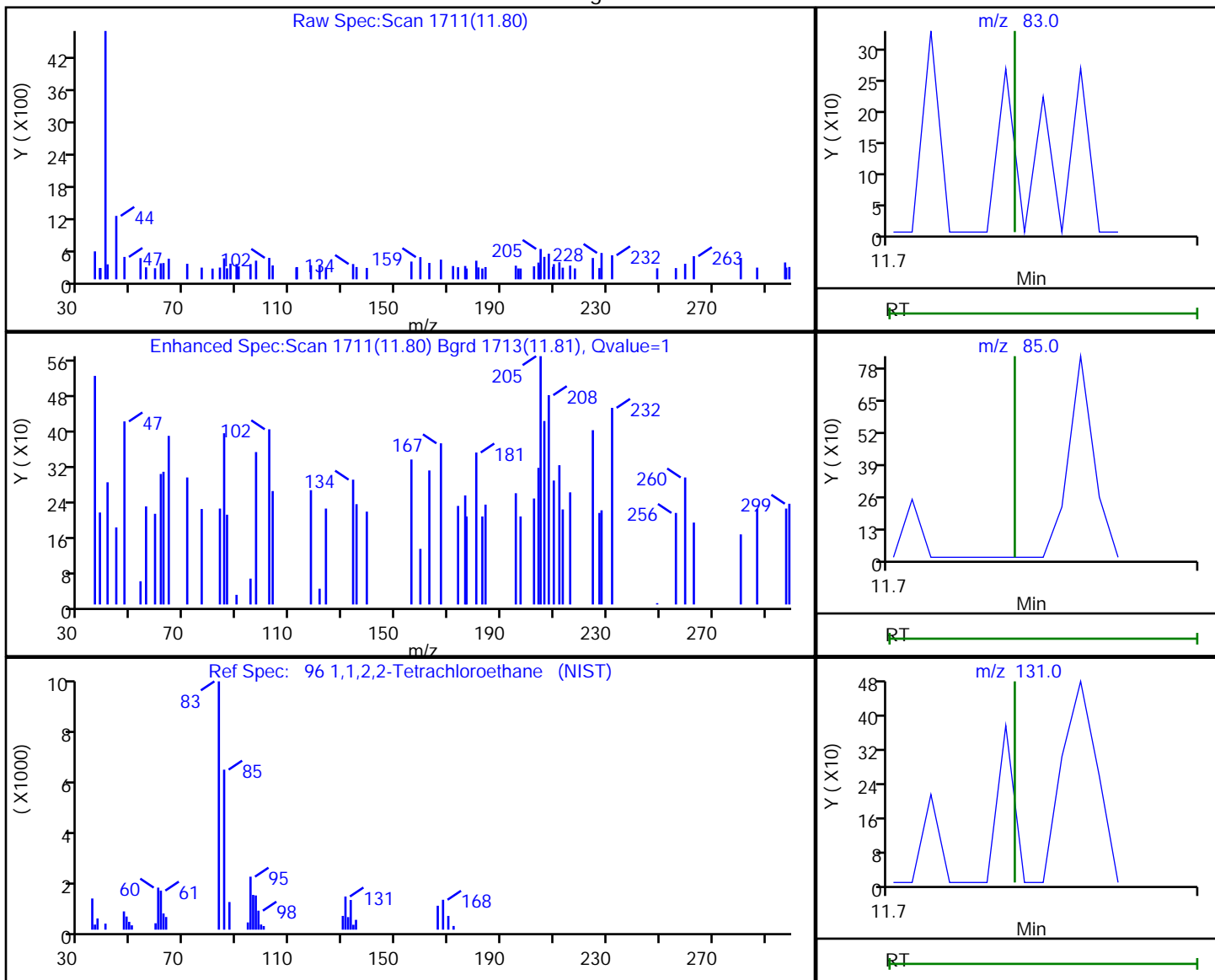
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012516.D  
 Injection Date: 25-Jan-2020 17:32:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-9 Lab Sample ID: 180-101459-9  
 Client ID: HD-COD-SW-27-0/1-0  
 Operator ID: 433269 ALS Bottle#: 10 Worklist Smp#: 16  
 Purge Vol: 5.000 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
11.80	83.00	80	0.037218
11.80	85.00	229	
11.74	131.00	0	

Reviewer: bowieh, 28-Jan-2020 09:40:26

Audit Action: Marked Compound Undetected

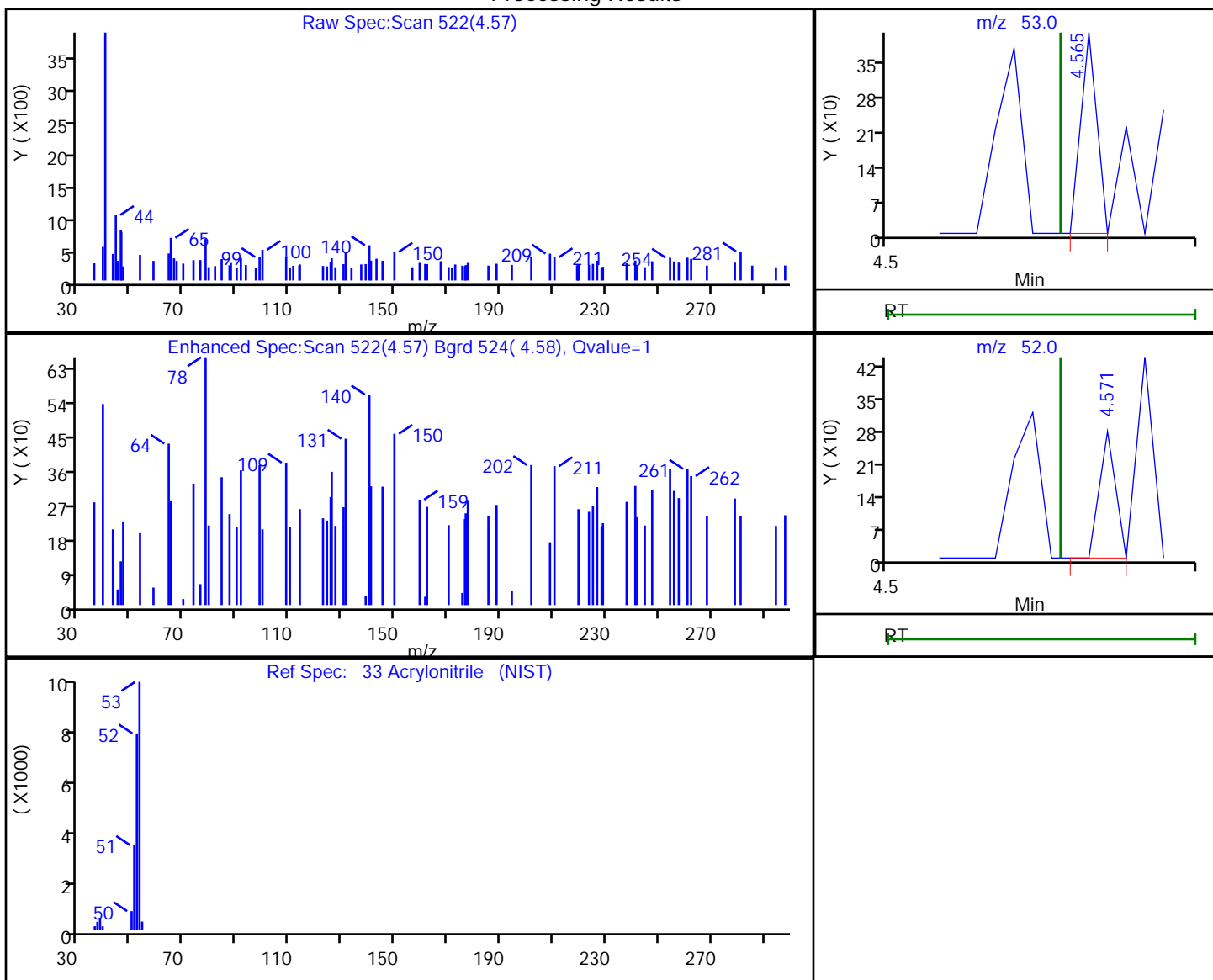
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Injection Date: 25-Jan-2020 17:32:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-9 Lab Sample ID: 180-101459-9  
 Client ID: HD-COD-SW-27-0/1-0  
 Operator ID: 433269 ALS Bottle#: 10 Worklist Smp#: 16  
 Purge Vol: 5.000 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
4.57	53.00	147	0.151513
4.57	52.00	100	

Reviewer: bowieh, 28-Jan-2020 09:38:23

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.: 180-101459-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: HD-COD-SW-15-0/1-0 Lab Sample ID: 180-101459-10  
 Matrix: Water Lab File ID: 6012507.D  
 Analysis Method: EPA 8260C Date Collected: 01/23/2020 13:15  
 Sample wt/vol: 5 (mL) Date Analyzed: 01/25/2020 13:27  
 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.: 304996 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	ND	^c	1.0	0.88
74-83-9	Bromomethane	ND	^c	1.0	0.89
75-00-3	Chloroethane	ND	^c	1.0	0.90
75-35-4	1,1-Dichloroethene	ND	F1	1.0	0.55
67-64-1	Acetone	ND		5.0	3.4
75-15-0	Carbon disulfide	ND	F1	1.0	0.88
75-09-2	Methylene Chloride	ND		1.0	0.89
156-60-5	trans-1,2-Dichloroethene	ND	F1	1.0	0.67
1634-04-4	Methyl tert-butyl ether	ND	F1	1.0	0.59
75-34-3	1,1-Dichloroethane	ND	F1	1.0	0.63
156-59-2	cis-1,2-Dichloroethene	0.87	J F1	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	F1 F2	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	F1	1.0	0.60
107-06-2	1,2-Dichloroethane	ND		1.0	0.57
79-01-6	Trichloroethene	0.86	J	1.0	0.69
78-87-5	1,2-Dichloropropane	ND	F1	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	F1	1.0	0.46
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.58
79-00-5	1,1,2-Trichloroethane	ND	F1	1.0	0.45
127-18-4	Tetrachloroethene	2.4		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	F1	1.0	0.50
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.57
100-41-4	Ethylbenzene	ND	F1	1.0	0.51
1330-20-7	Xylenes, Total	ND	F1	2.0	0.89
100-42-5	Styrene	ND	F1	1.0	0.47

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-101459-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: HD-COD-SW-15-0/1-0 Lab Sample ID: 180-101459-10  
 Matrix: Water Lab File ID: 6012507.D  
 Analysis Method: EPA 8260C Date Collected: 01/23/2020 13:15  
 Sample wt/vol: 5 (mL) Date Analyzed: 01/25/2020 13:27  
 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.: 304996 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)	104		70-150
2037-26-5	Toluene-d8 (Surr)	101		78-128
460-00-4	4-Bromofluorobenzene (Surr)	86		64-123
1868-53-7	Dibromofluoromethane (Surr)	96		75-147

Eurofins TestAmerica, Pittsburgh  
Target Compound Quantitation Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012507.D  
 Lims ID: 180-101459-B-10  
 Client ID: HD-COD-SW-15-0/1-0  
 Sample Type: Client  
 Inject. Date: 25-Jan-2020 13:27:30 ALS Bottle#: 1 Worklist Smp#: 7  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 180-0030512-007  
 Misc. Info.: 180-101459-b-10  
 Operator ID: 433269 Instrument ID: CHHP6  
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\MSVOA\_LL\_CHHP6.m  
 Limit Group: VOA 8260C\_D ICAL  
 Last Update: 25-Jan-2020 15:14:25 Calib Date: 31-Dec-2019 16:03:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123111.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0321

First Level Reviewer: bowieh

Date: 25-Jan-2020 15:14:25

Compound	Sig	RT (min.)	Exp RT (min.)	Diff RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.301	4.319	-0.018	90	155159	1000.0	
* 2 Fluorobenzene (IS)	96	7.306	7.306	0.000	99	612227	50.0	
* 3 Chlorobenzene-d5	119	10.415	10.408	0.007	84	138203	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.757	12.757	0.000	93	198948	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.582	6.582	0.000	93	132888	48.2	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.947	6.953	-0.006	97	149260	52.0	
\$ 7 Toluene-d8 (Surr)	98	8.955	8.954	0.001	94	515824	50.4	
\$ 8 4-Bromofluorobenzene (Surr	95	11.595	11.595	0.000	0	157495	43.1	
12 Chloromethane	50	1.861	1.837	0.024	51	4442	0.9521	Ma
13 Vinyl chloride	62		1.952				ND	U
15 Bromomethane	94		2.287				ND	U
16 Chloroethane	64		2.421				ND	U
22 1,1-Dichloroethene	96		3.370				ND	U
24 Acetone	43	3.480	3.473	0.007	87	5544	3.71	
26 Carbon disulfide	76		3.662				ND	U
31 Methylene Chloride	84		4.155				ND	
33 Acrylonitrile	53		4.556				ND	U
34 trans-1,2-Dichloroethene	96		4.574				ND	U
35 Methyl tert-butyl ether	73	4.617	4.611	0.006	16	1001	0.1550	
37 1,1-Dichloroethane	63	5.238	5.219	0.019	1	2621	0.4873	Ma
43 cis-1,2-Dichloroethene	96	5.986	5.967	0.019	73	15649	4.36	a
44 2-Butanone (MEK)	43		5.980				ND	U
48 Chlorobromomethane	128		6.247				ND	
50 Chloroform	83		6.393				ND	
51 1,1,1-Trichloroethane	97	6.552	6.558	-0.006	35	4362	1.06	M
53 Carbon tetrachloride	117		6.722				ND	U
56 Benzene	78		6.959				ND	U
57 1,2-Dichloroethane	62		7.038				ND	U
61 Trichloroethene	130	7.689	7.689	0.000	89	16847	4.30	
64 1,2-Dichloropropane	63		7.963				ND	U
68 Dichlorobromomethane	83		8.249				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
71 cis-1,3-Dichloropropene	75		8.699				ND	U
72 4-Methyl-2-pentanone (MIBK)	43		8.857				ND	U
73 Toluene	91		9.021				ND	U
74 trans-1,3-Dichloropropene	75		9.277				ND	U
76 1,1,2-Trichloroethane	97		9.472				ND	U
77 Tetrachloroethene	164	9.539	9.538	0.001	96	39011	12.1	
79 2-Hexanone	43		9.691				ND	U
81 Chlorodibromomethane	129		9.843				ND	U
82 Ethylene Dibromide	107		9.952				ND	U
84 Chlorobenzene	112		10.439				ND	U
86 1,1,1,2-Tetrachloroethane	131		10.530				ND	U
87 Ethylbenzene	106		10.542				ND	U
88 m-Xylene & p-Xylene	106		10.670				ND	U
89 o-Xylene	106		11.053				ND	U
90 Styrene	104		11.078				ND	U
91 Bromoform	173		11.254				ND	U
96 1,1,2,2-Tetrachloroethane	83		11.741				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:

VOA8260INT\_00103

Amount Added: 2.00

Units: uL

Run Reagent

VOA8260SURR\_00103

Amount Added: 2.00

Units: uL

Run Reagent

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012507.D

Injection Date: 25-Jan-2020 13:27:30

Instrument ID: CHHP6

Operator ID: 433269

Lims ID: 180-101459-B-10

Lab Sample ID: 180-101459-10

Worklist Smp#: 7

Client ID: HD-COD-SW-15-0/1-0

Purge Vol: 5.000 mL

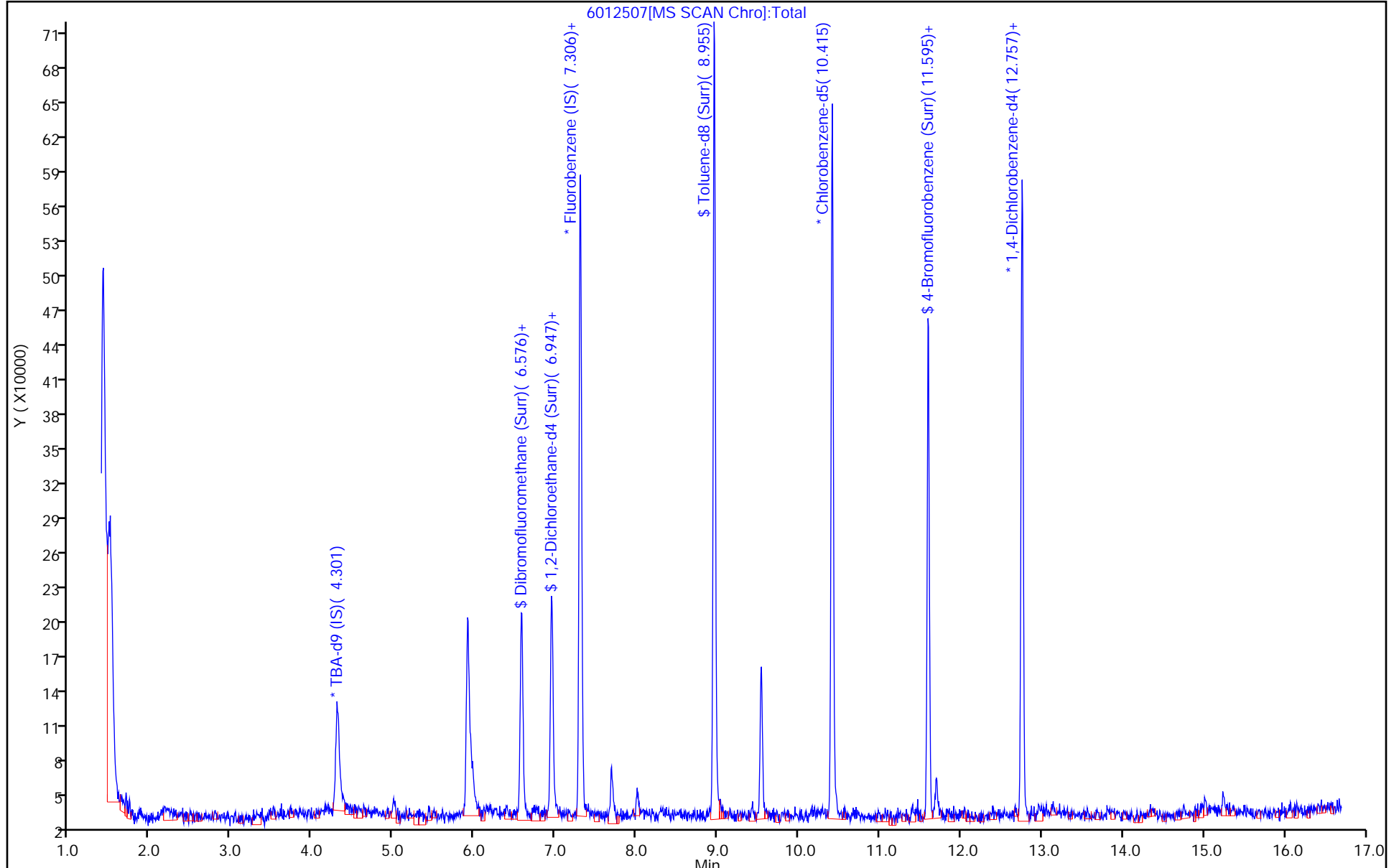
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: MSVOA\_LL\_CHHP6

Limit Group: VOA 8260C\_D ICAL

Column: DB-624 (0.18 mm)





Eurofins TestAmerica, Pittsburgh  
Recovery Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012507.D  
 Lims ID: 180-101459-B-10  
 Client ID: HD-COD-SW-15-0/1-0  
 Sample Type: Client  
 Inject. Date: 25-Jan-2020 13:27:30 ALS Bottle#: 1 Worklist Smp#: 7  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 180-0030512-007  
 Misc. Info.: 180-101459-b-10  
 Operator ID: 433269 Instrument ID: CHHP6  
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\MSVOA\_LL\_CHHP6.m  
 Limit Group: VOA 8260C\_D ICAL  
 Last Update: 25-Jan-2020 15:14:25 Calib Date: 31-Dec-2019 16:03:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123111.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0321

First Level Reviewer: bowieh

Date: 25-Jan-2020 15:14:25

Compound	Amount Added	Amount Recovered	% Rec.
\$ 5 Dibromofluoromethane (Surr)	50.0	48.2	96.34
\$ 6 1,2-Dichloroethane-d4 (Surr)	50.0	52.0	103.98
\$ 7 Toluene-d8 (Surr)	50.0	50.4	100.77
\$ 8 4-Bromofluorobenzene (Surr)	50.0	43.1	86.14

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012507.D

Injection Date: 25-Jan-2020 13:27:30

Instrument ID: CHHP6

Lims ID: 180-101459-B-10

Lab Sample ID: 180-101459-10

Client ID: HD-COD-SW-15-0/1-0

Operator ID: 433269

ALS Bottle#: 1

Worklist Smp#: 7

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

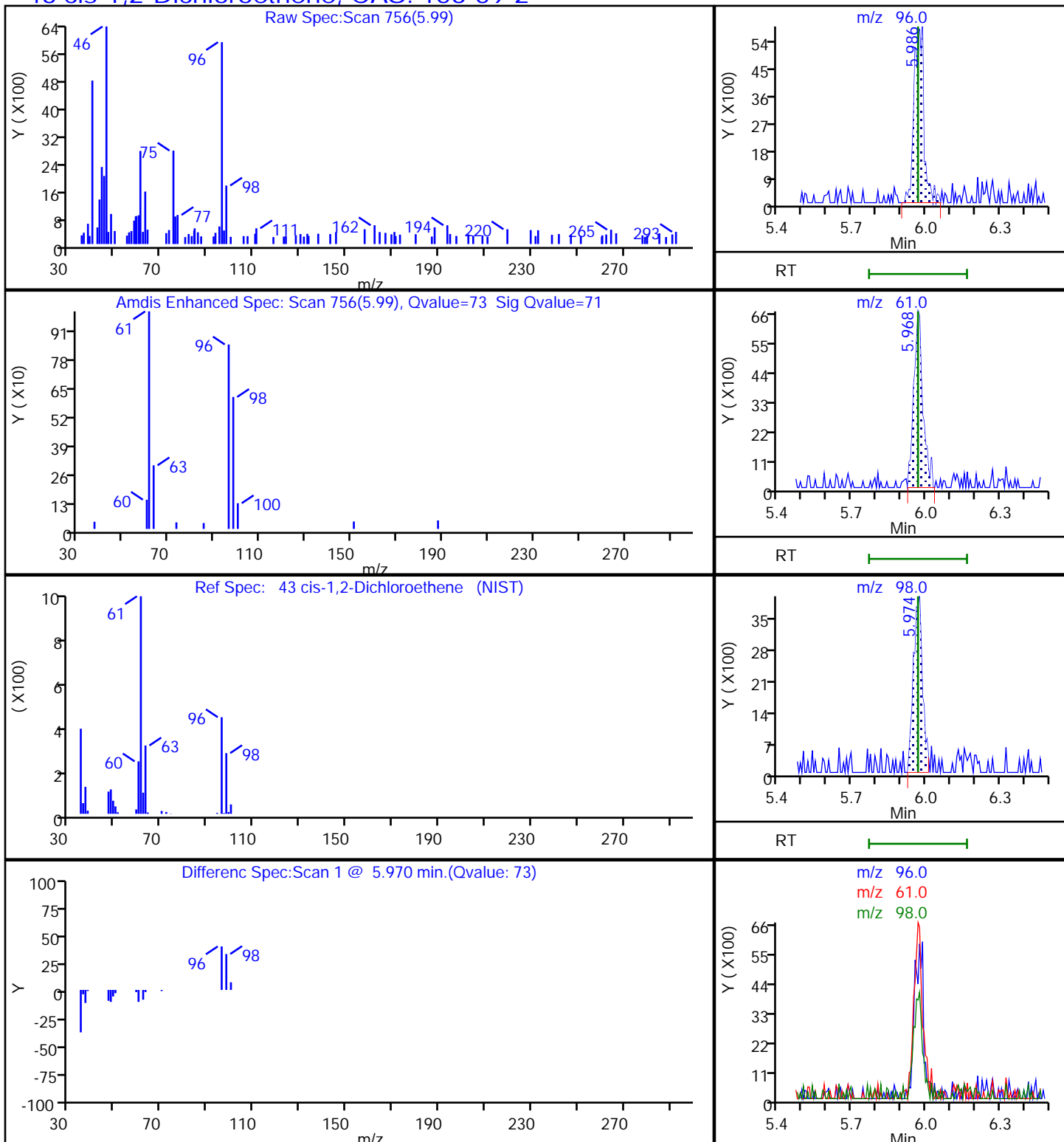
Method: MSVOA\_LL\_CHHP6

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\20200125-30512.b\6012507.D

Injection Date: 25-Jan-2020 13:27:30

Instrument ID: CHHP6

Lims ID: 180-101459-B-10

Lab Sample ID: 180-101459-10

Client ID: HD-COD-SW-15-0/1-0

Operator ID: 433269

ALS Bottle#: 1

Worklist Smp#: 7

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

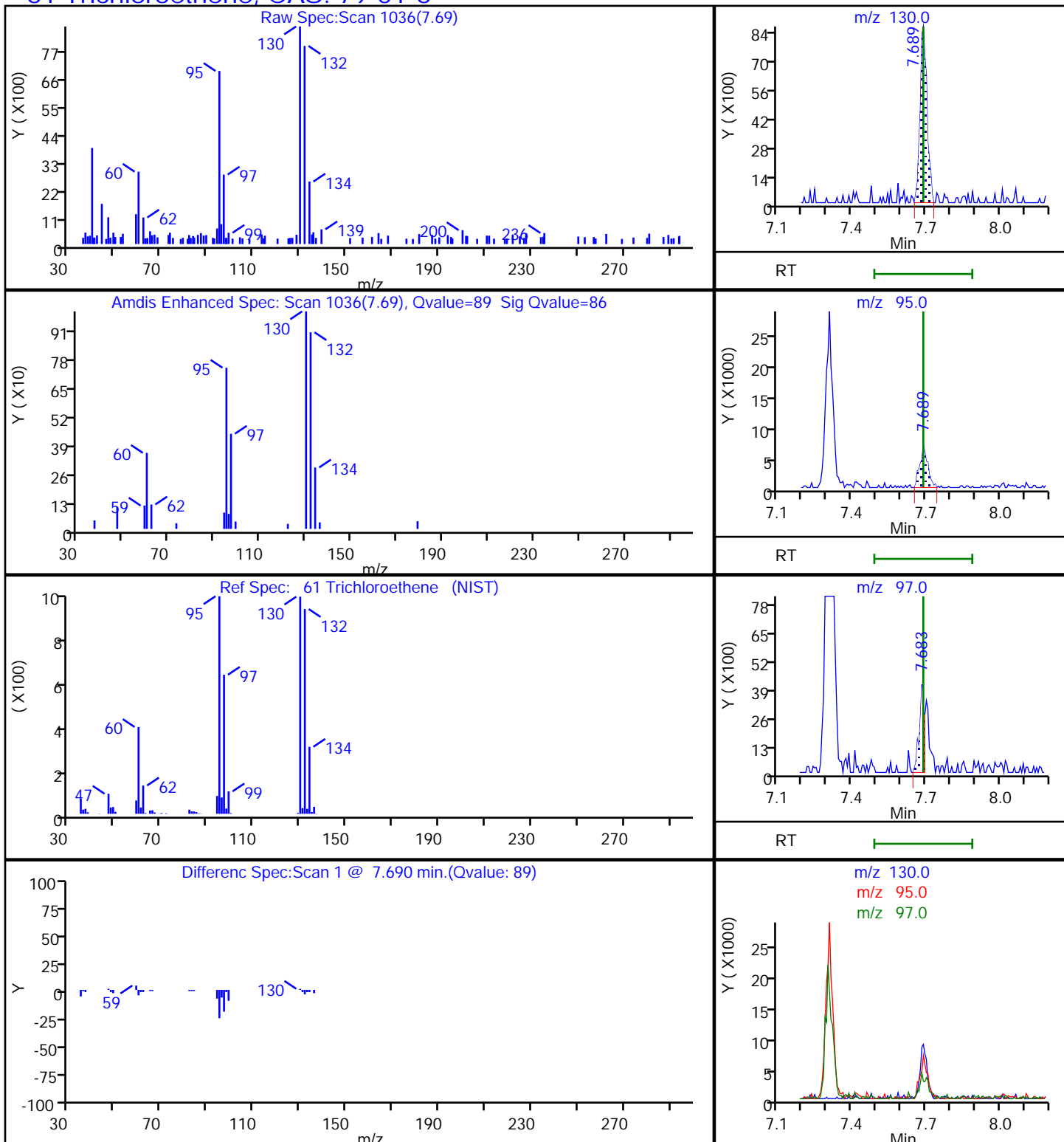
Method: MSVOA\_LL\_CHHP6

Limit Group: VOA 8260C\_D ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

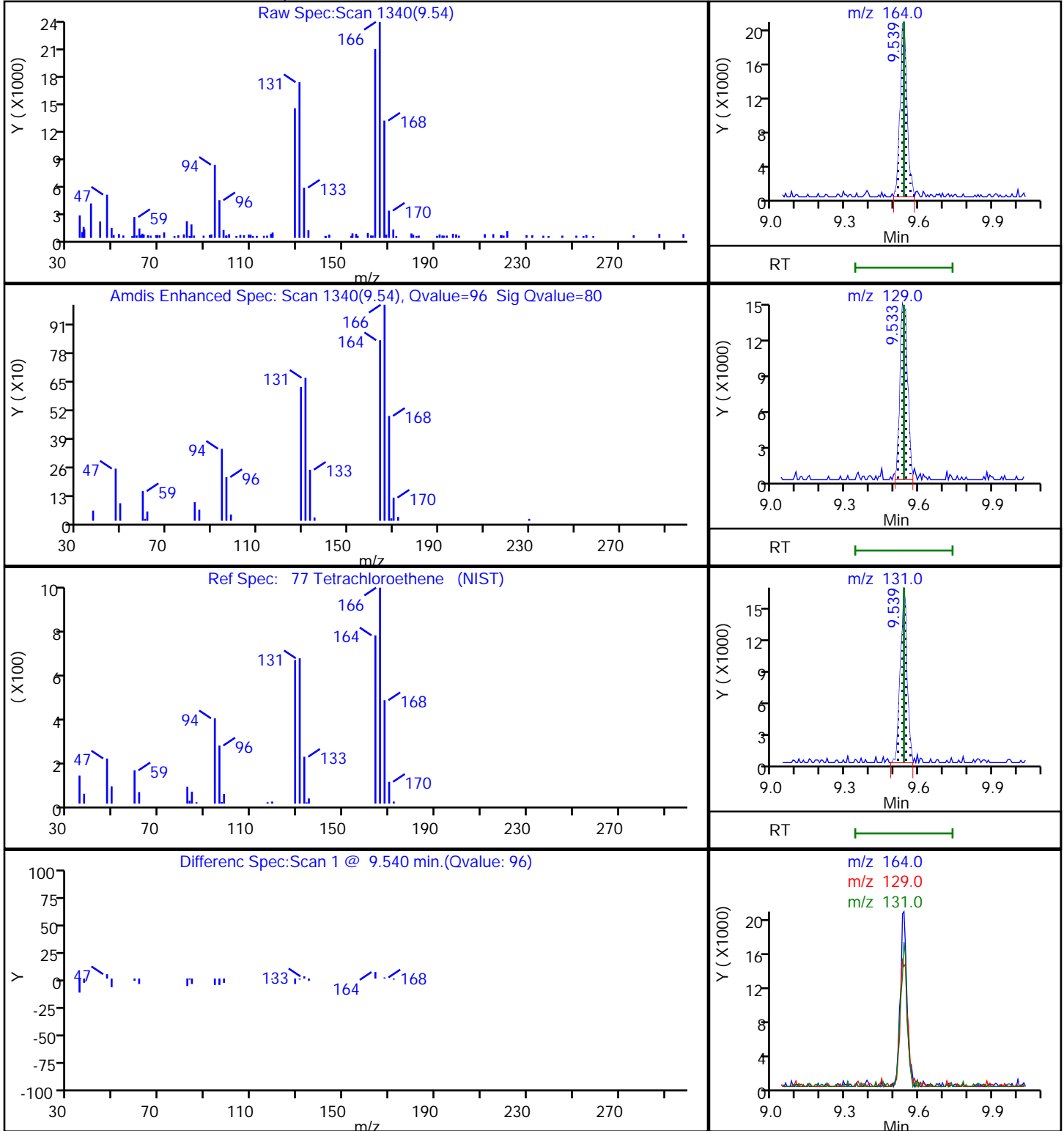
### 61 Trichloroethene, CAS: 79-01-6



Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012507.D  
Injection Date: 25-Jan-2020 13:27:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-10 Lab Sample ID: 180-101459-10  
Client ID: HD-COD-SW-15-0/1-0  
Operator ID: 433269 ALS Bottle#: 1 Worklist Smp#: 7  
Purge Vol: 5.000 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



Euofins TestAmerica, Pittsburgh

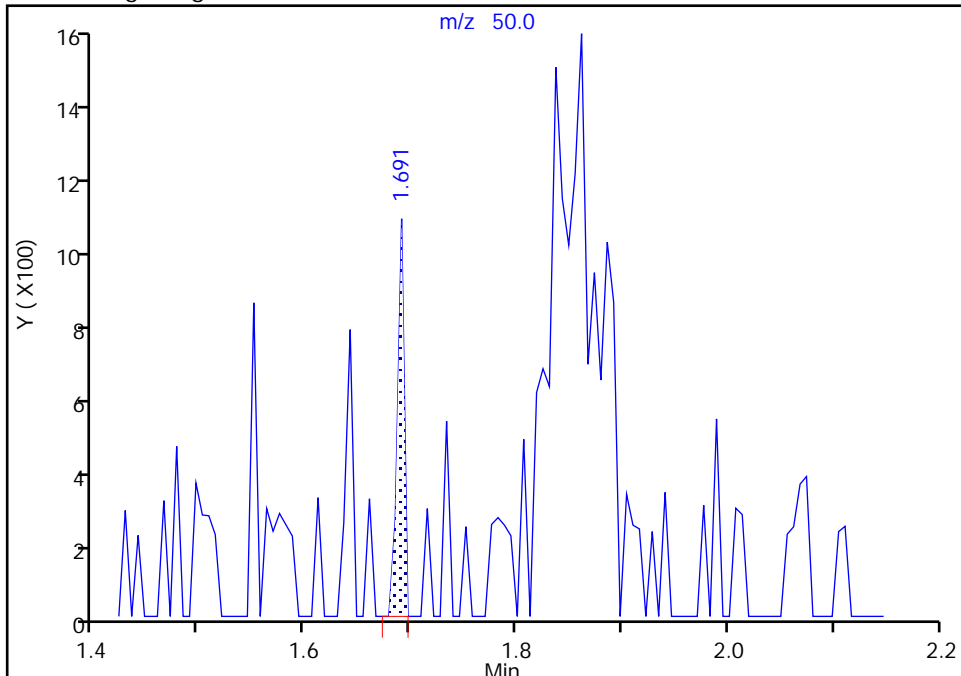
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Injection Date: 25-Jan-2020 13:27:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-10 Lab Sample ID: 180-101459-10  
Client ID: HD-COD-SW-15-0/1-0  
Operator ID: 433269 ALS Bottle#: 1 Worklist Smp#: 7  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
Column: DB-624 (0.18 mm) Detector: MS SCAN

12 Chloromethane, CAS: 74-87-3

Signal: 1

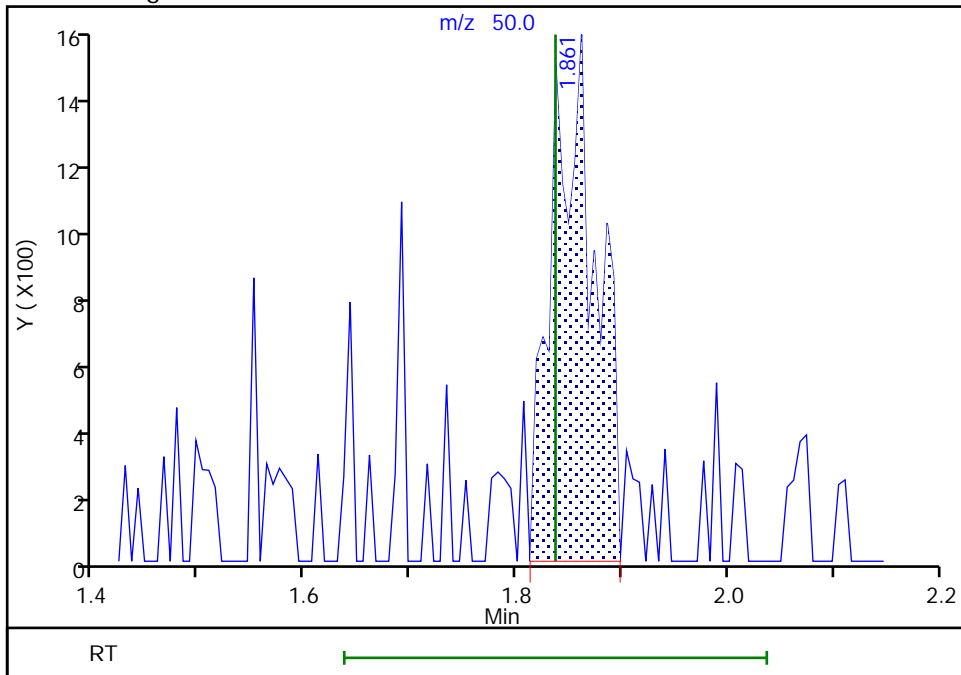
RT: 1.69  
Area: 479  
Amount: 0.102666  
Amount Units: ng

Processing Integration Results



RT: 1.86  
Area: 4442  
Amount: 0.952074  
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 25-Jan-2020 13:57:45  
Audit Action: Manually Integrated

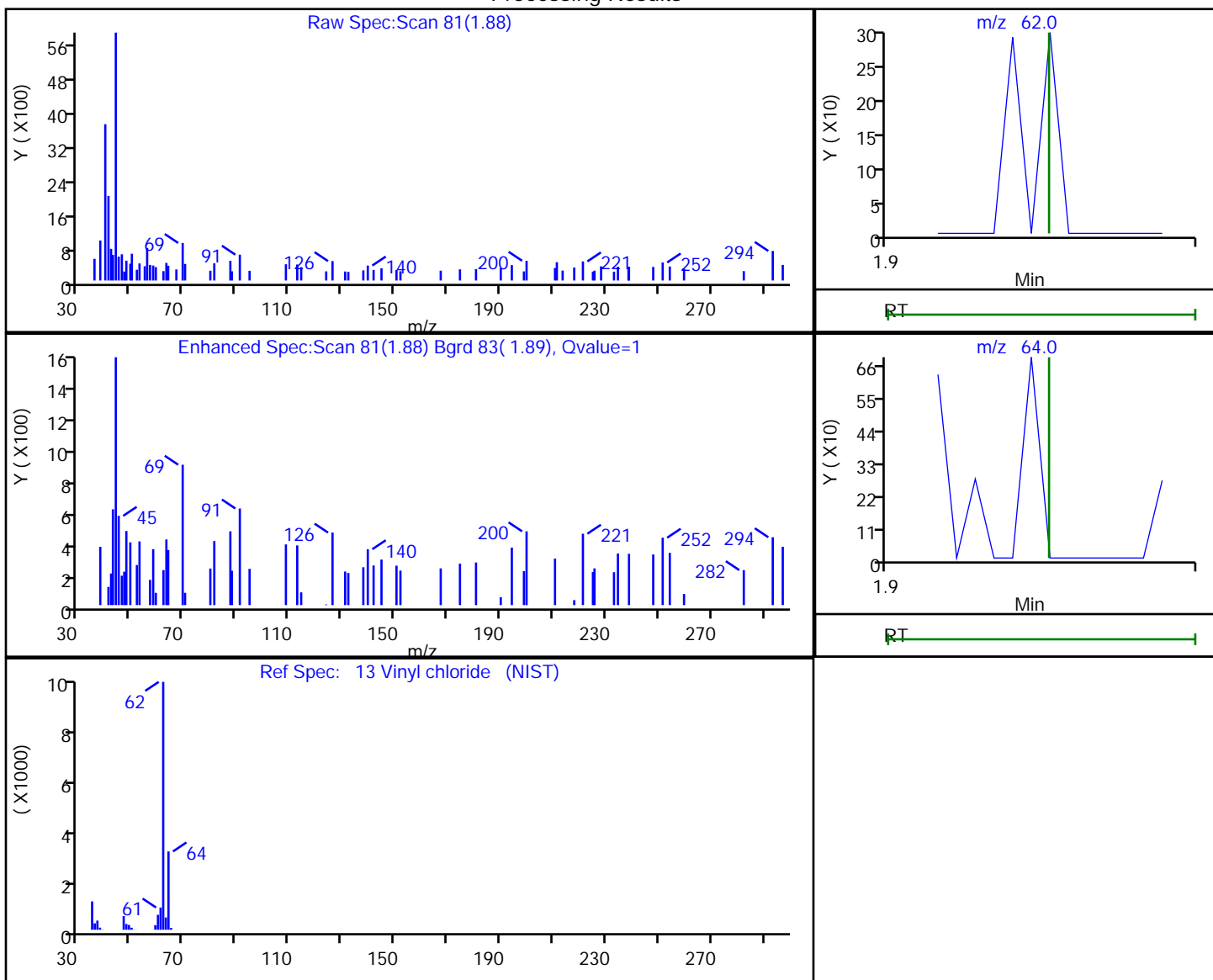
Audit Reason: Poor chromatography  
Page 505 of 880

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012507.D  
 Injection Date: 25-Jan-2020 13:27:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-10 Lab Sample ID: 180-101459-10  
 Client ID: HD-COD-SW-15-0/1-0  
 Operator ID: 433269 ALS Bottle#: 1 Worklist Smp#: 7  
 Purge Vol: 5.000 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
1.88	62.00	80	0.019926
1.88	64.00	216	

Reviewer: bowieh, 25-Jan-2020 15:12:42

Audit Action: Marked Compound Undetected

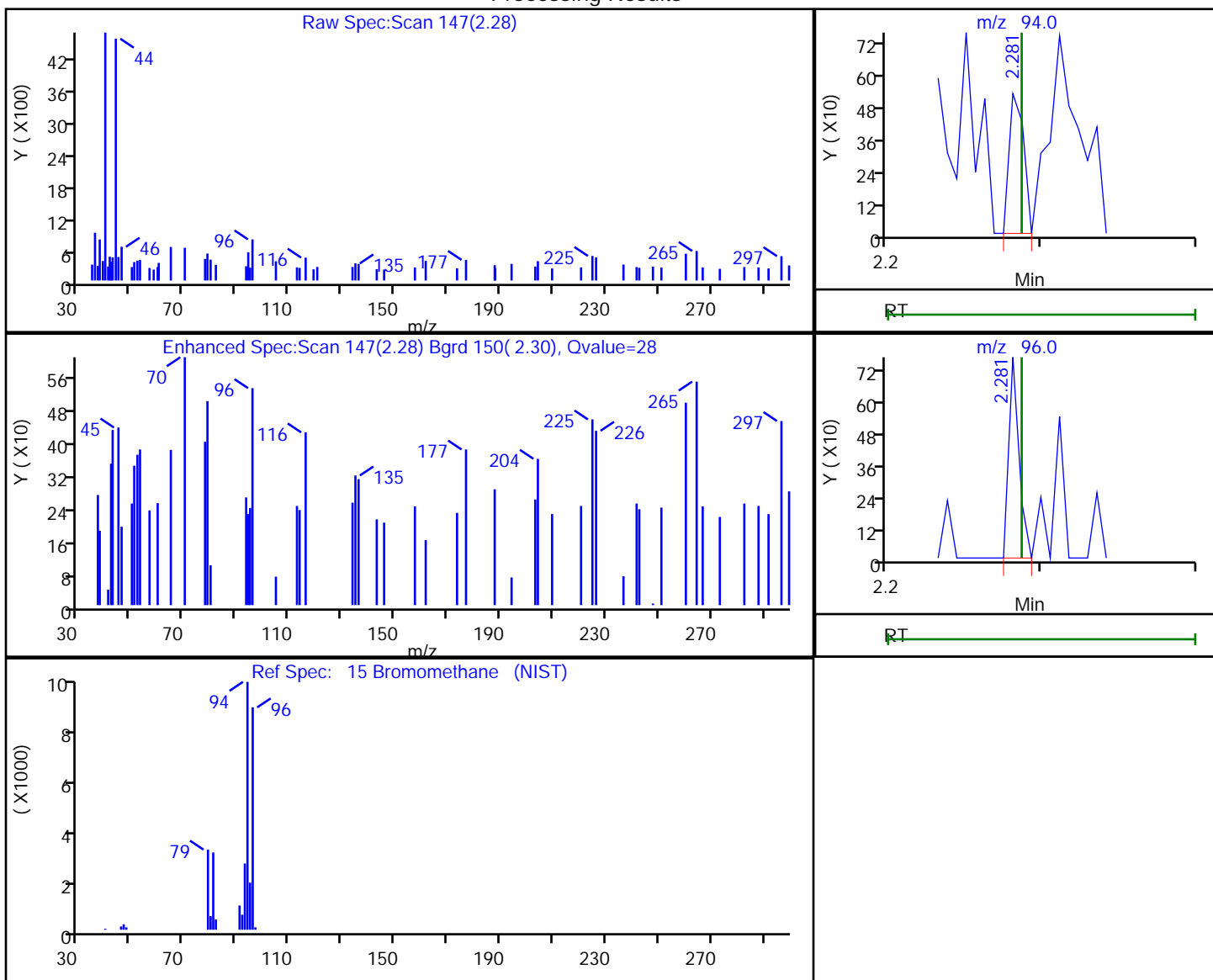
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012507.D  
 Injection Date: 25-Jan-2020 13:27:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-10 Lab Sample ID: 180-101459-10  
 Client ID: HD-COD-SW-15-0/1-0  
 Operator ID: 433269 ALS Bottle#: 1 Worklist Smp#: 7  
 Purge Vol: 5.000 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
2.28	94.00	345	0.134685
2.28	96.00	354	

Reviewer: bowieh, 25-Jan-2020 15:12:43

Audit Action: Marked Compound Undetected

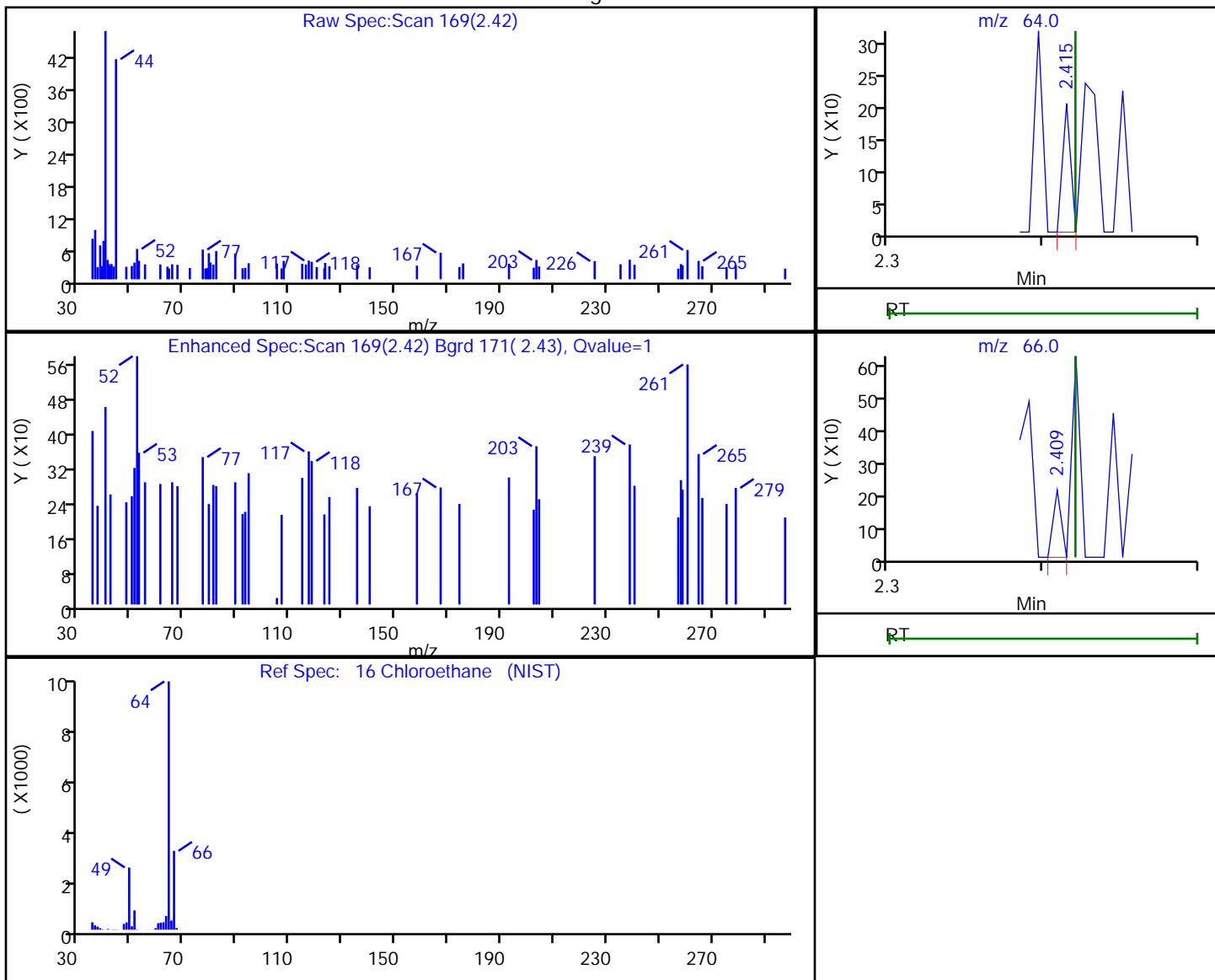
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012507.D  
 Injection Date: 25-Jan-2020 13:27:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-10 Lab Sample ID: 180-101459-10  
 Client ID: HD-COD-SW-15-0/1-0  
 Operator ID: 433269 ALS Bottle#: 1 Worklist Smp#: 7  
 Purge Vol: 5.000 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	74	0.025307
2.41	66.00	76	

Reviewer: bowieh, 25-Jan-2020 15:12:44

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

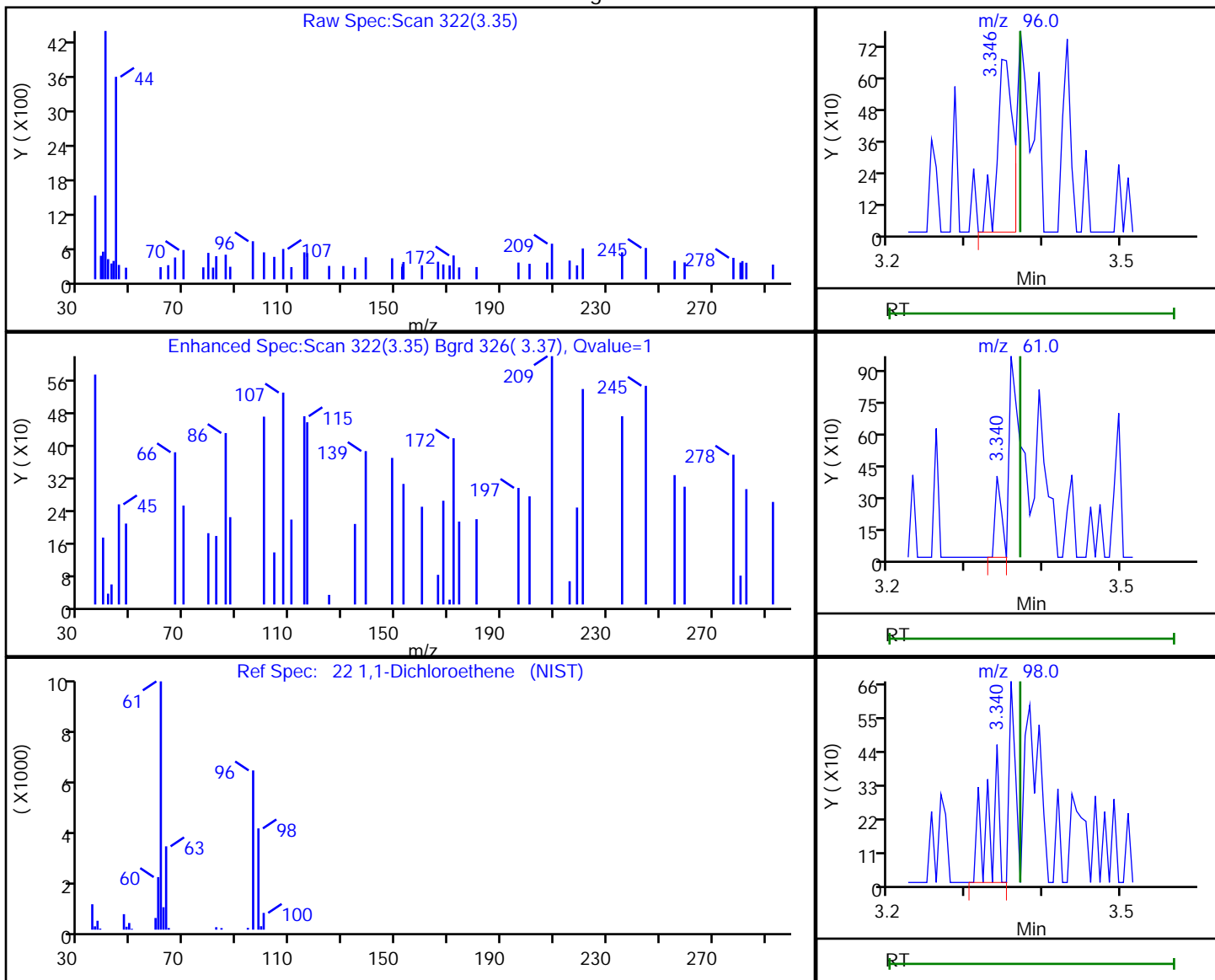


Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012507.D  
 Injection Date: 25-Jan-2020 13:27:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-10 Lab Sample ID: 180-101459-10  
 Client ID: HD-COD-SW-15-0/1-0  
 Operator ID: 433269 ALS Bottle#: 1 Worklist Smp#: 7  
 Purge Vol: 5.000 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
3.35	96.00	952	0.324724
3.34	61.00	219	
3.34	98.00	408	

Reviewer: bowieh, 25-Jan-2020 15:12:45

Audit Action: Marked Compound Undetected

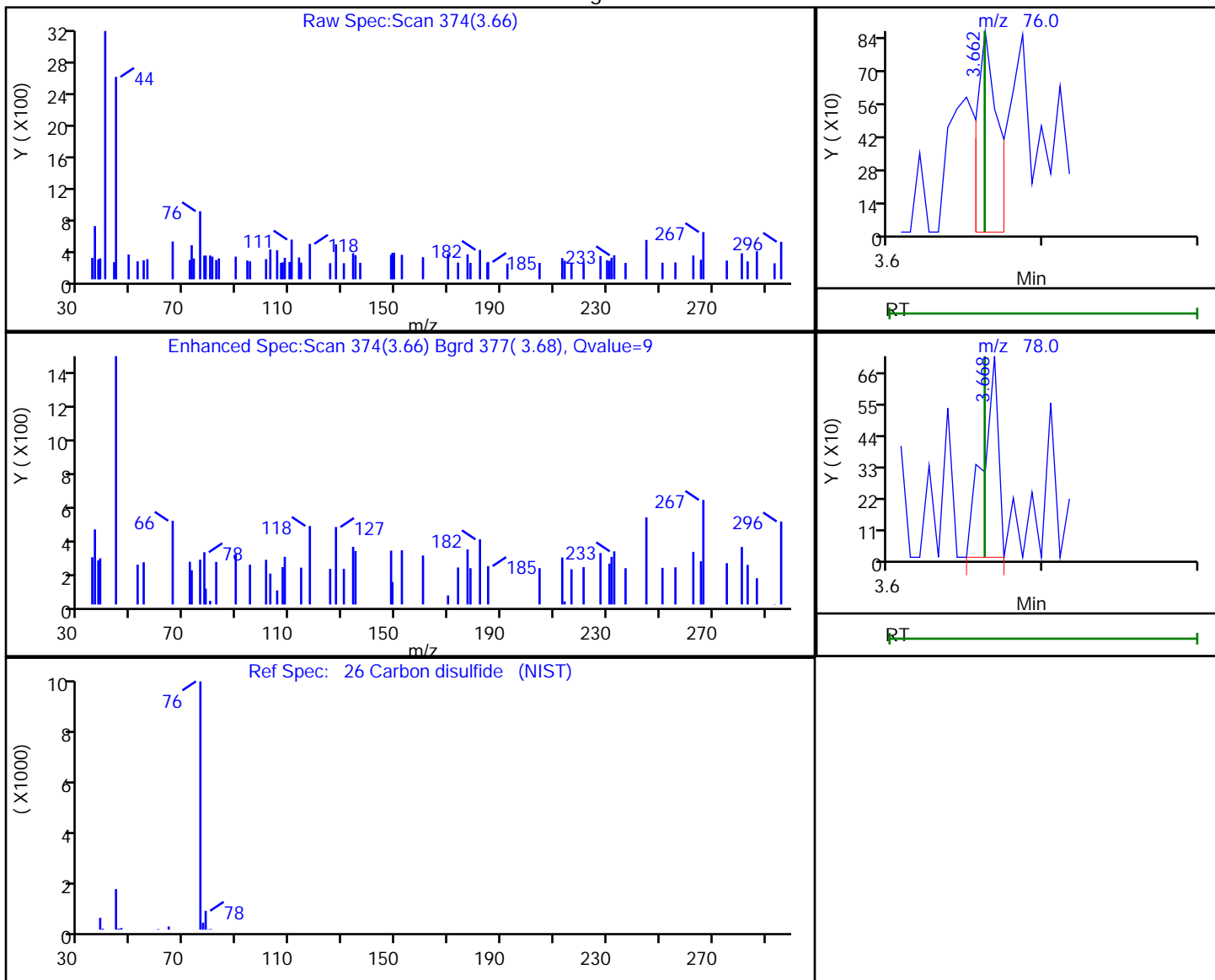
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012507.D  
 Injection Date: 25-Jan-2020 13:27:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-10 Lab Sample ID: 180-101459-10  
 Client ID: HD-COD-SW-15-0/1-0  
 Operator ID: 433269 ALS Bottle#: 1 Worklist Smp#: 7  
 Purge Vol: 5.000 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
3.66	76.00	833	0.126303
3.67	78.00	492	

Reviewer: bowieh, 25-Jan-2020 15:12:55

Audit Action: Marked Compound Undetected

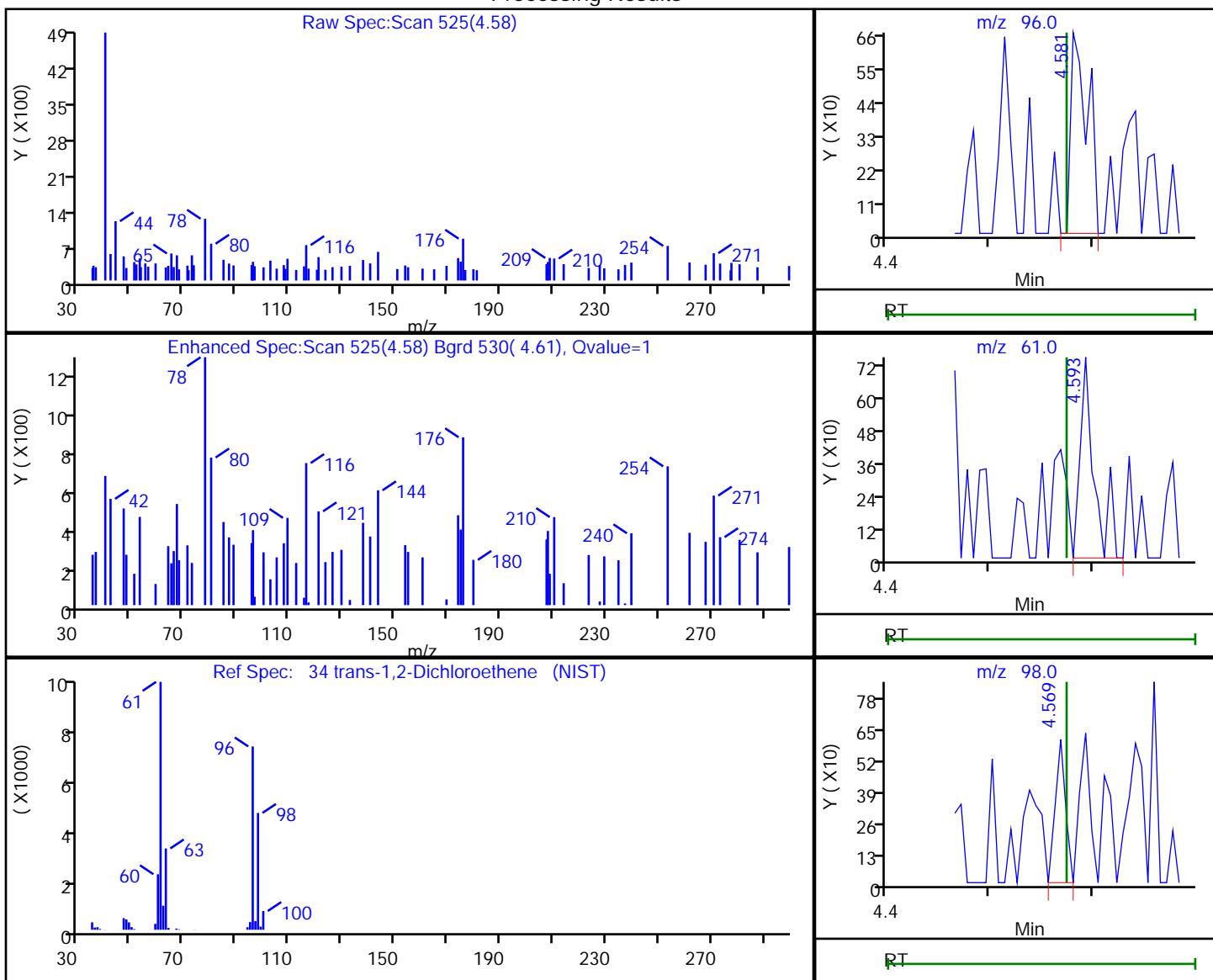
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012507.D  
 Injection Date: 25-Jan-2020 13:27:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-10 Lab Sample ID: 180-101459-10  
 Client ID: HD-COD-SW-15-0/1-0  
 Operator ID: 433269 ALS Bottle#: 1 Worklist Smp#: 7  
 Purge Vol: 5.000 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
4.58	96.00	760	0.228042
4.59	61.00	718	
4.57	98.00	420	

Reviewer: bowieh, 25-Jan-2020 15:13:00

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Euofins TestAmerica, Pittsburgh

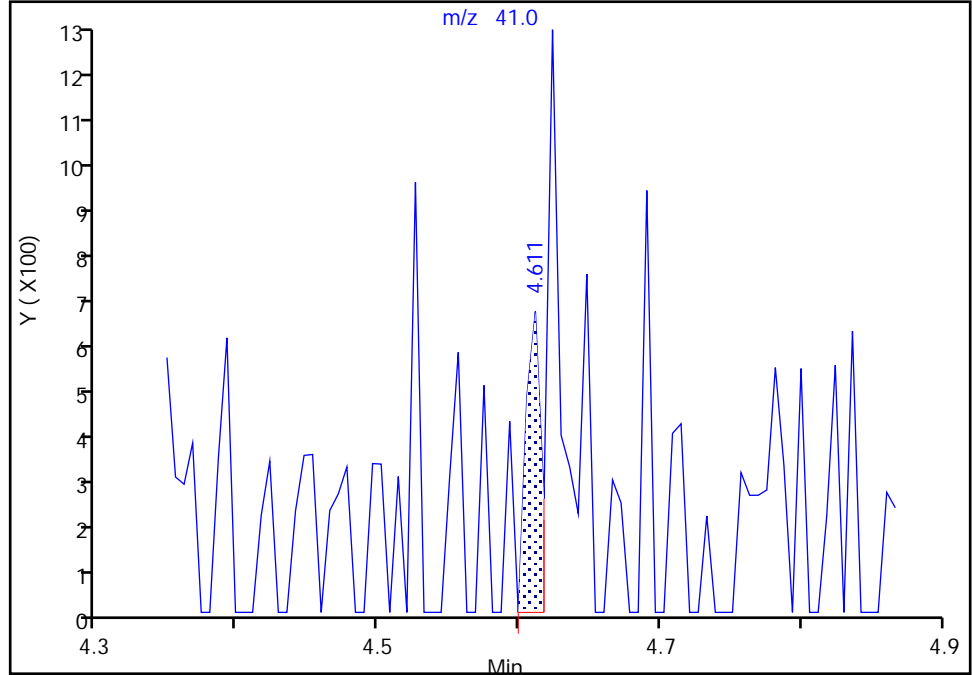
Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012507.D  
Injection Date: 25-Jan-2020 13:27:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-10 Lab Sample ID: 180-101459-10  
Client ID: HD-COD-SW-15-0/1-0  
Operator ID: 433269 ALS Bottle#: 1 Worklist Smp#: 7  
Purge Vol: 5.000 mL Dil. 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

Signal: 2

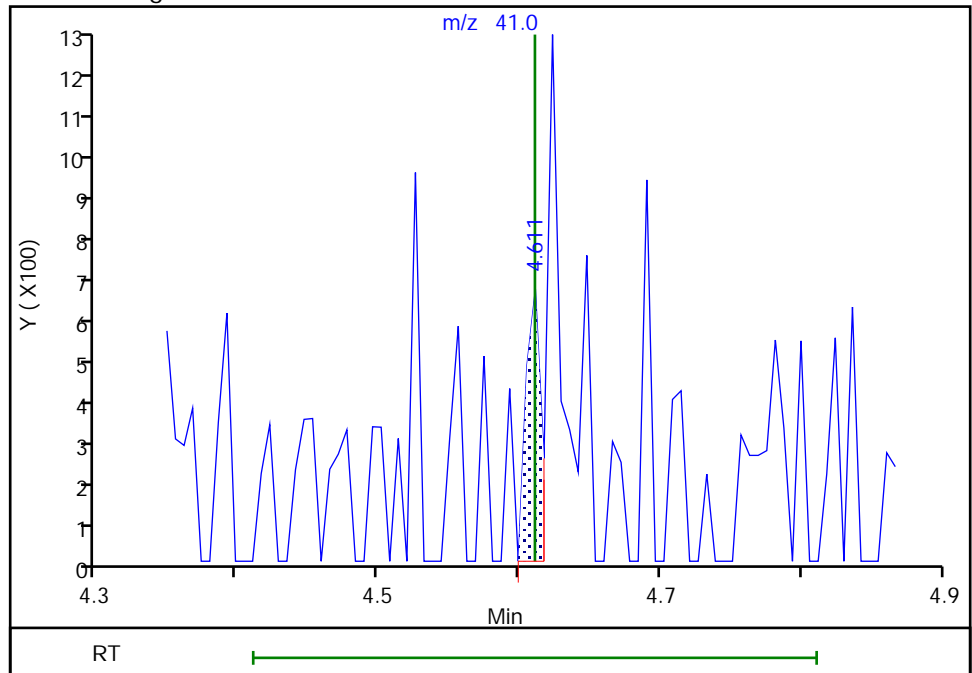
RT: 4.61  
Area: 479  
Amount: 0.155043  
Amount Units: ng

Processing Integration Results



RT: 4.61  
Area: 479  
Amount: 0.155043  
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 25-Jan-2020 15:13:01  
Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

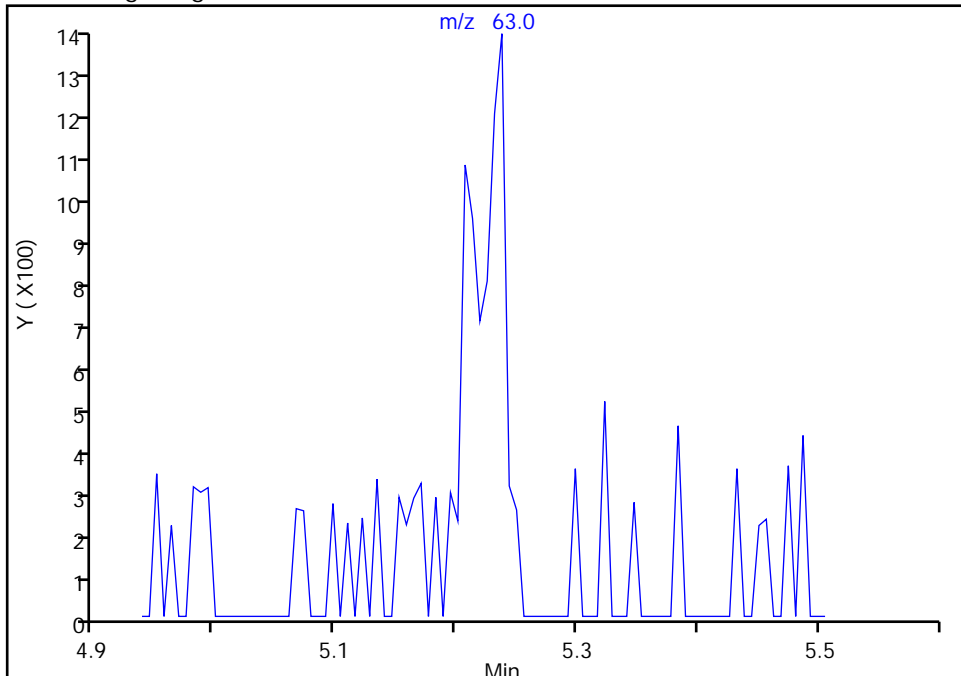
Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012507.D  
Injection Date: 25-Jan-2020 13:27:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-10 Lab Sample ID: 180-101459-10  
Client ID: HD-COD-SW-15-0/1-0  
Operator ID: 433269 ALS Bottle#: 1 Worklist Smp#: 7  
Purge Vol: 5.000 mL Dil. 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

Signal: 1

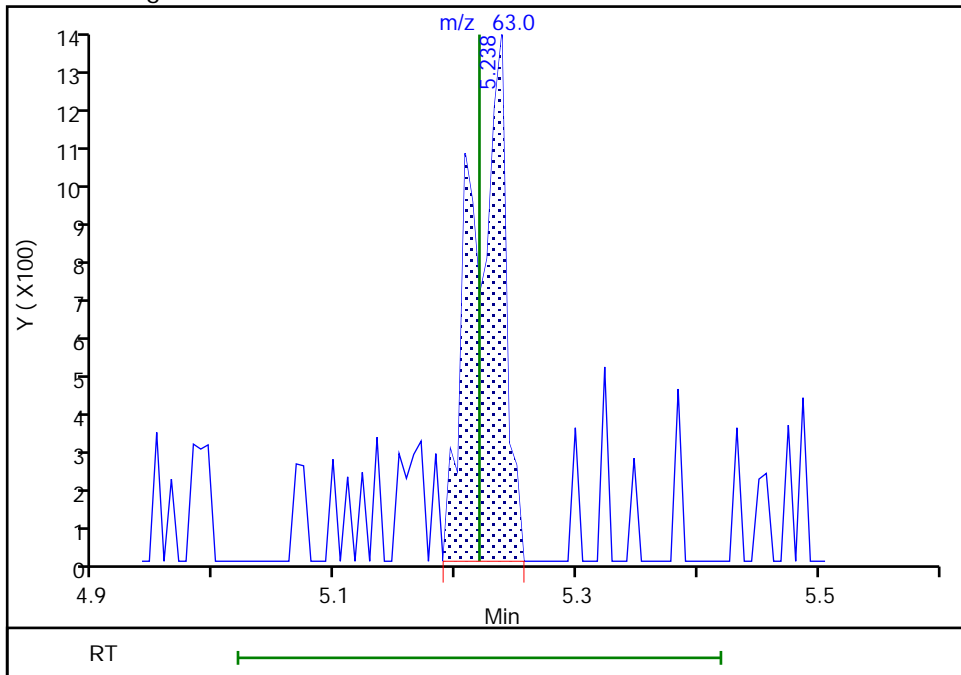
Not Detected  
Expected RT: 5.22

Processing Integration Results



Manual Integration Results

RT: 5.24  
Area: 2621  
Amount: 0.487345  
Amount Units: ng



Reviewer: bowieh, 25-Jan-2020 15:13:16  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography  
Page 513 of 880

Eurofins TestAmerica, Pittsburgh

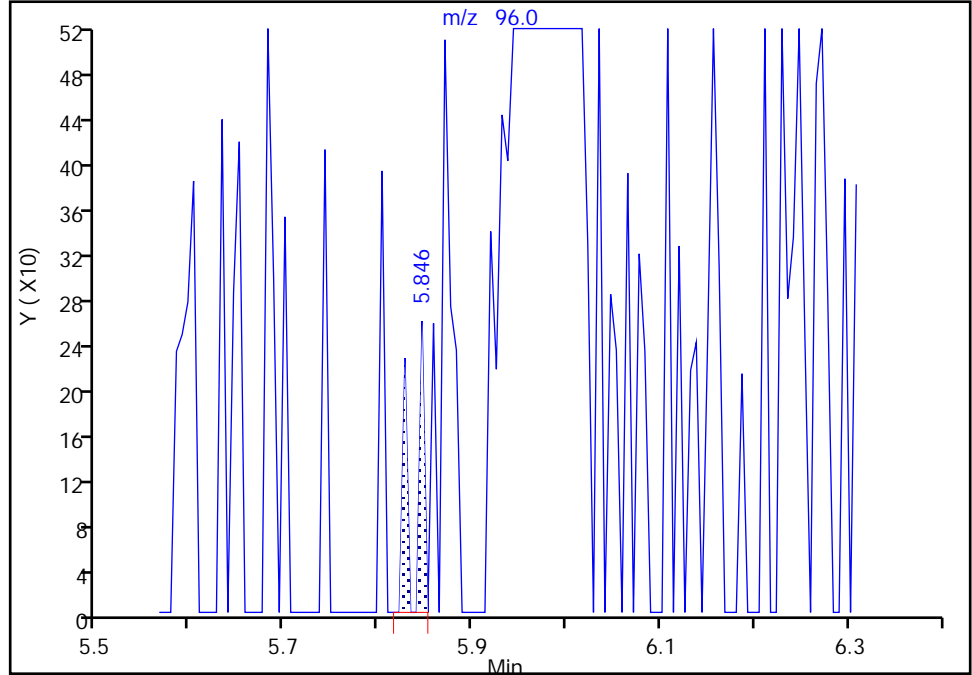
Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012507.D  
Injection Date: 25-Jan-2020 13:27:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-10 Lab Sample ID: 180-101459-10  
Client ID: HD-COD-SW-15-0/1-0  
Operator ID: 433269 ALS Bottle#: 1 Worklist Smp#: 7  
Purge Vol: 5.000 mL Dil. 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

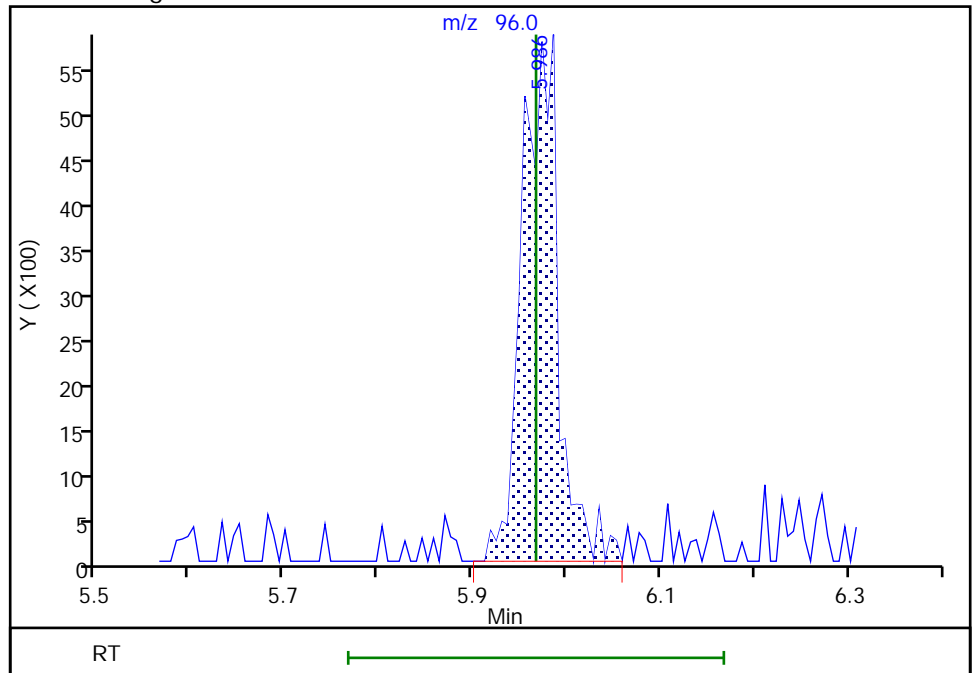
RT: 5.85  
Area: 178  
Amount: 0.049604  
Amount Units: ng

Processing Integration Results



RT: 5.99  
Area: 15649  
Amount: 4.360996  
Amount Units: ng

Manual Integration Results

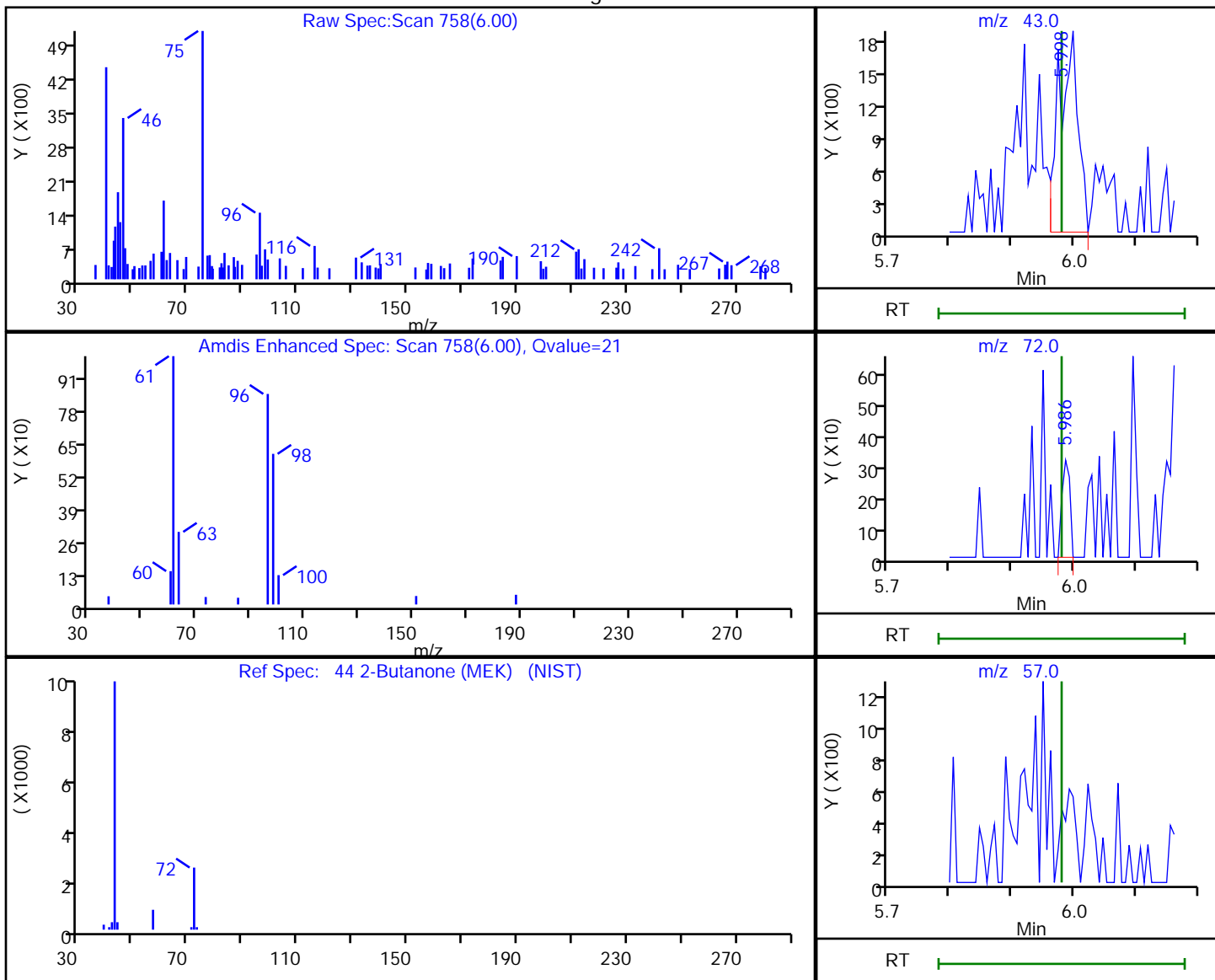


Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012507.D  
 Injection Date: 25-Jan-2020 13:27:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-10 Lab Sample ID: 180-101459-10  
 Client ID: HD-COD-SW-15-0/1-0  
 Operator ID: 433269 ALS Bottle#: 1 Worklist Smp#: 7  
 Purge Vol: 5.000 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
6.00	43.00	3982	2.118588
5.99	72.00	286	
5.98	57.00	0	

Reviewer: bowieh, 25-Jan-2020 15:13:24

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

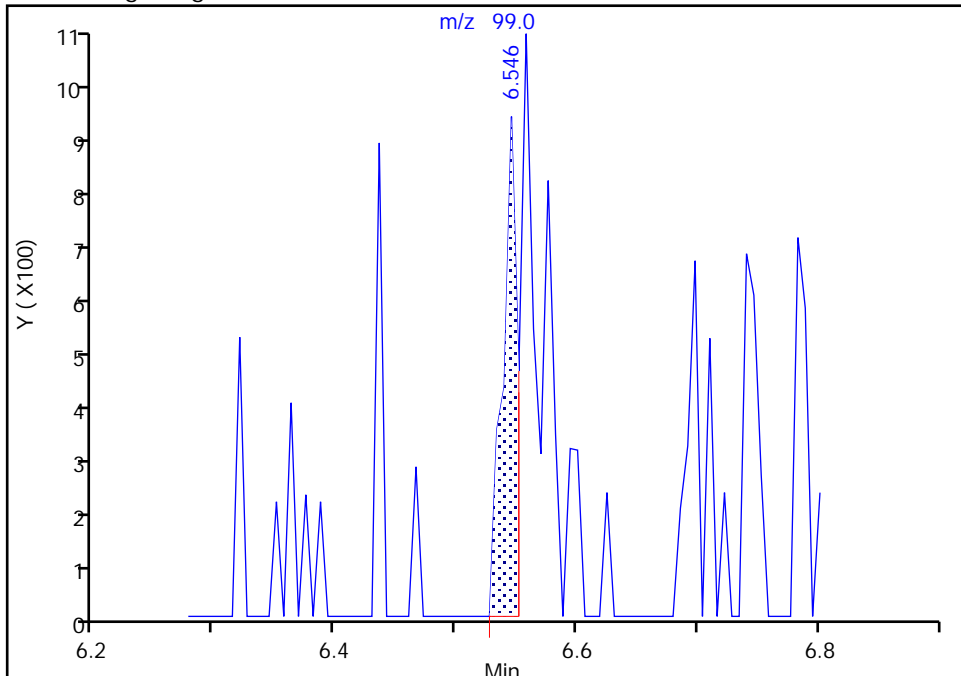
Data File:	\\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012507.D		
Injection Date:	25-Jan-2020 13:27:30	Instrument ID:	CHHP6
Lims ID:	180-101459-B-10	Lab Sample ID:	180-101459-10
Client ID:	HD-COD-SW-15-0/1-0		
Operator ID:	433269	ALS Bottle#:	1
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C_D ICAL
Column:	DB-624 (0.18 mm)	Detector:	MS SCAN
		Worklist Smp#:	7

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

Signal: 2

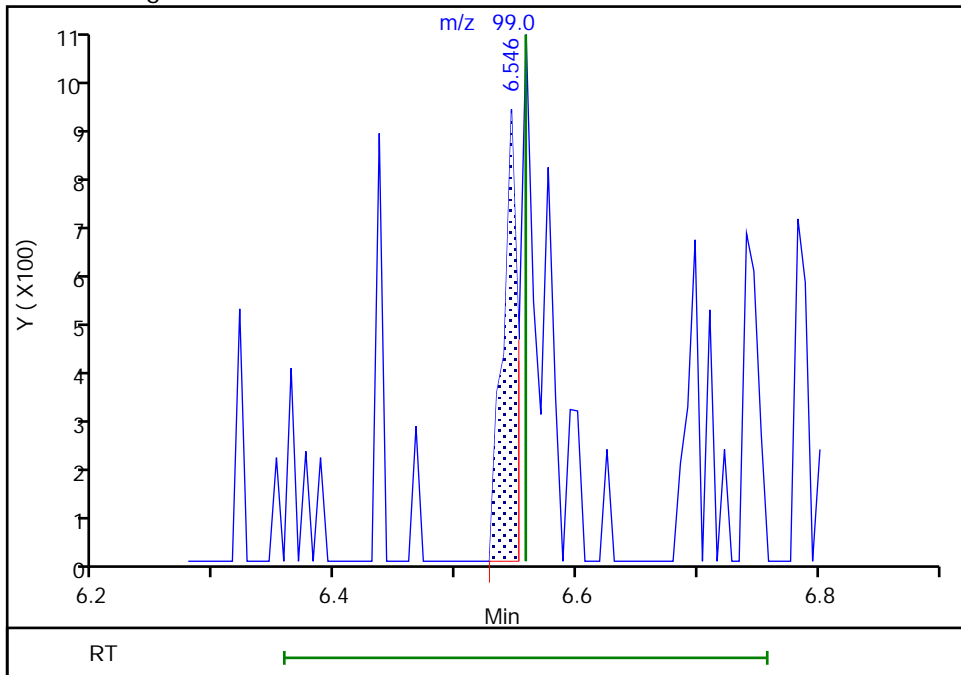
RT: 6.55  
 Area: 788  
 Amount: 0.363870  
 Amount Units: ng

Processing Integration Results



RT: 6.55  
 Area: 788  
 Amount: 1.056021  
 Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 25-Jan-2020 15:13:26  
 Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID



Eurofins TestAmerica, Pittsburgh

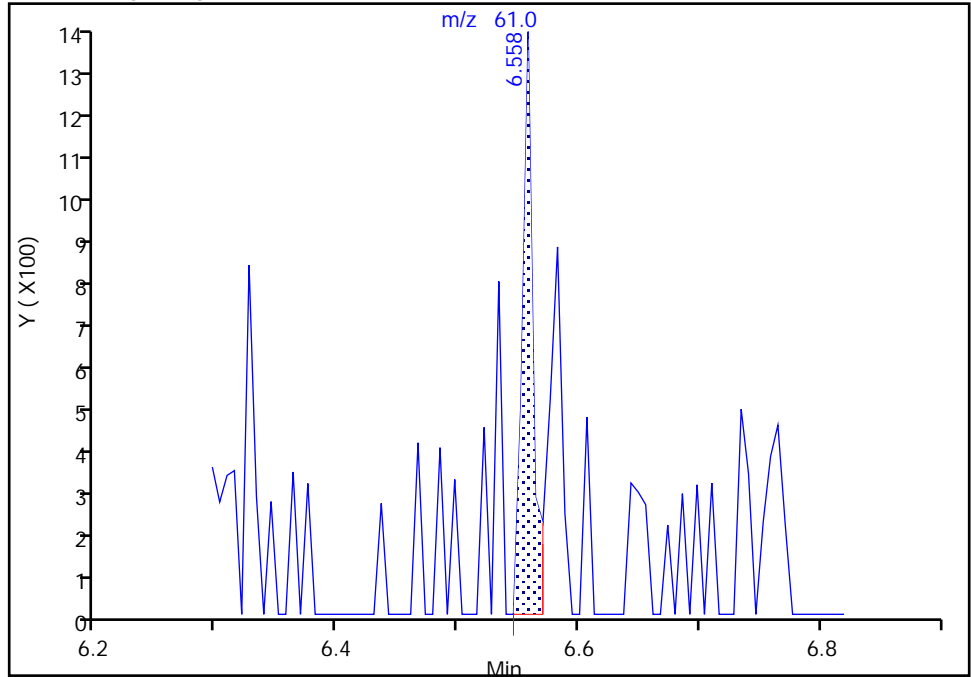
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Injection Date: 25-Jan-2020 13:27:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-10 Lab Sample ID: 180-101459-10  
Client ID: HD-COD-SW-15-0/1-0  
Operator ID: 433269 ALS Bottle#: 1 Worklist Smp#: 7  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: 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: 3

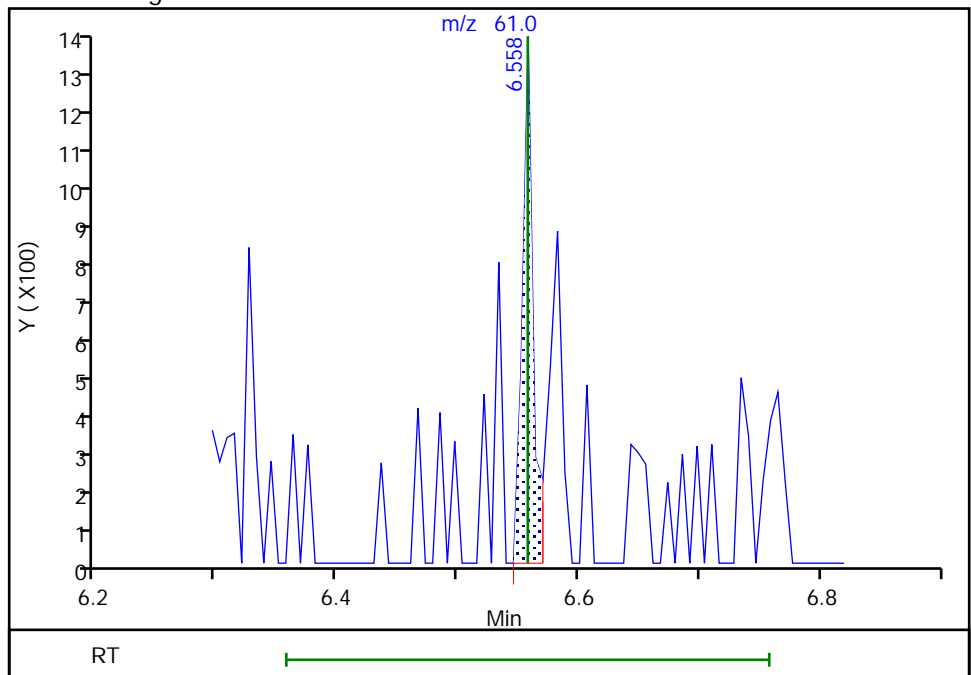
RT: 6.56  
Area: 828  
Amount: 0.363870  
Amount Units: ng

Processing Integration Results



RT: 6.56  
Area: 828  
Amount: 1.056021  
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 25-Jan-2020 15:13:26  
Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID  
Page 517 of 880

Eurofins TestAmerica, Pittsburgh

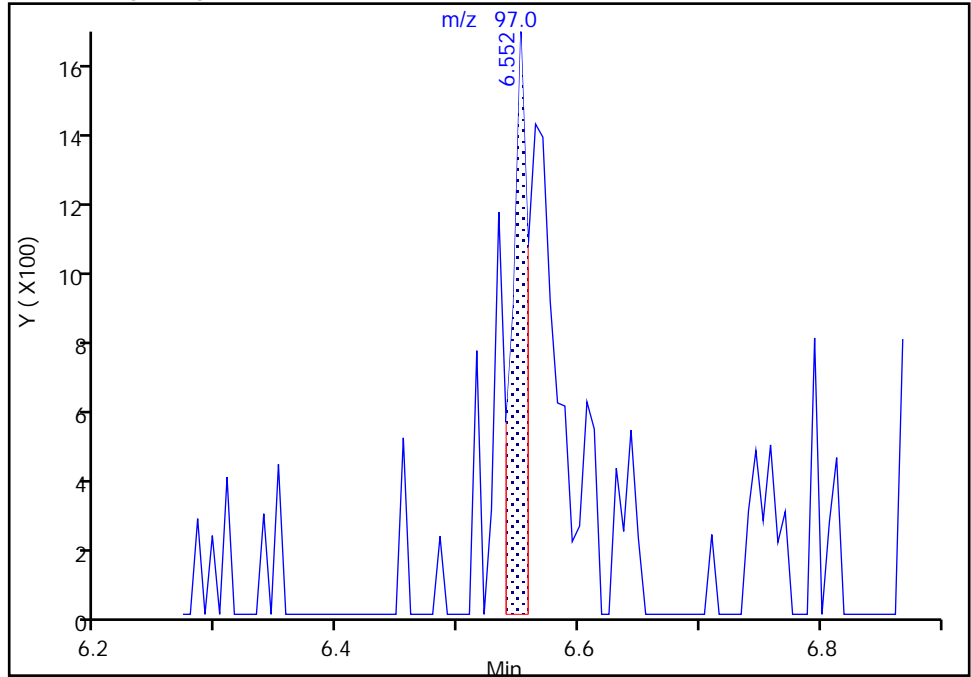
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Injection Date: 25-Jan-2020 13:27:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-10 Lab Sample ID: 180-101459-10  
Client ID: HD-COD-SW-15-0/1-0  
Operator ID: 433269 ALS Bottle#: 1 Worklist Smp#: 7  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: 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

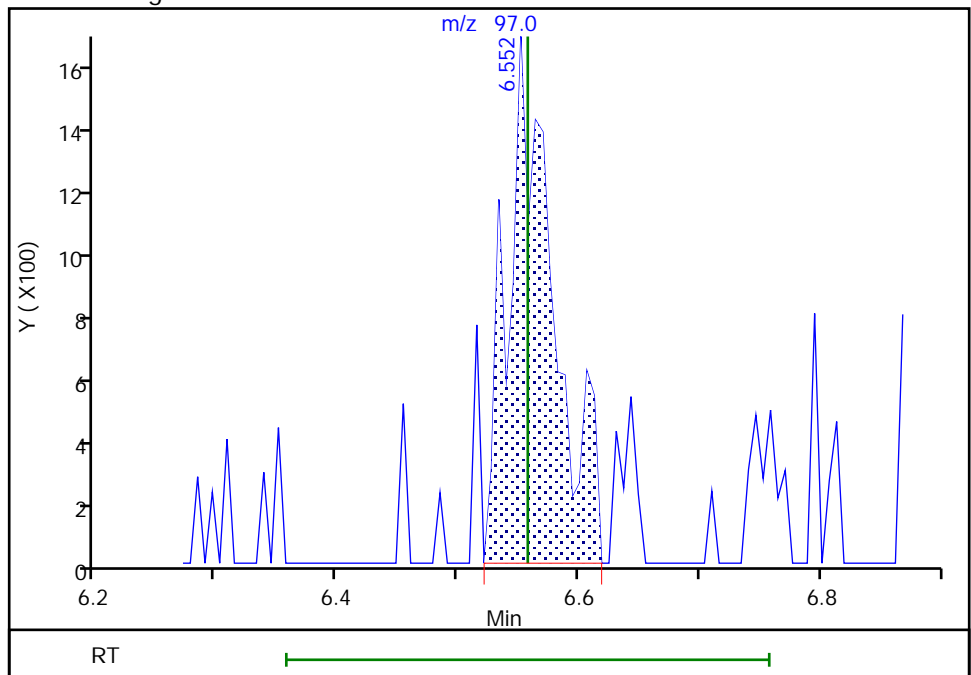
RT: 6.55  
Area: 1503  
Amount: 0.363870  
Amount Units: ng

Processing Integration Results



RT: 6.55  
Area: 4362  
Amount: 1.056021  
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 25-Jan-2020 15:13:42

Audit Action: Manually Integrated

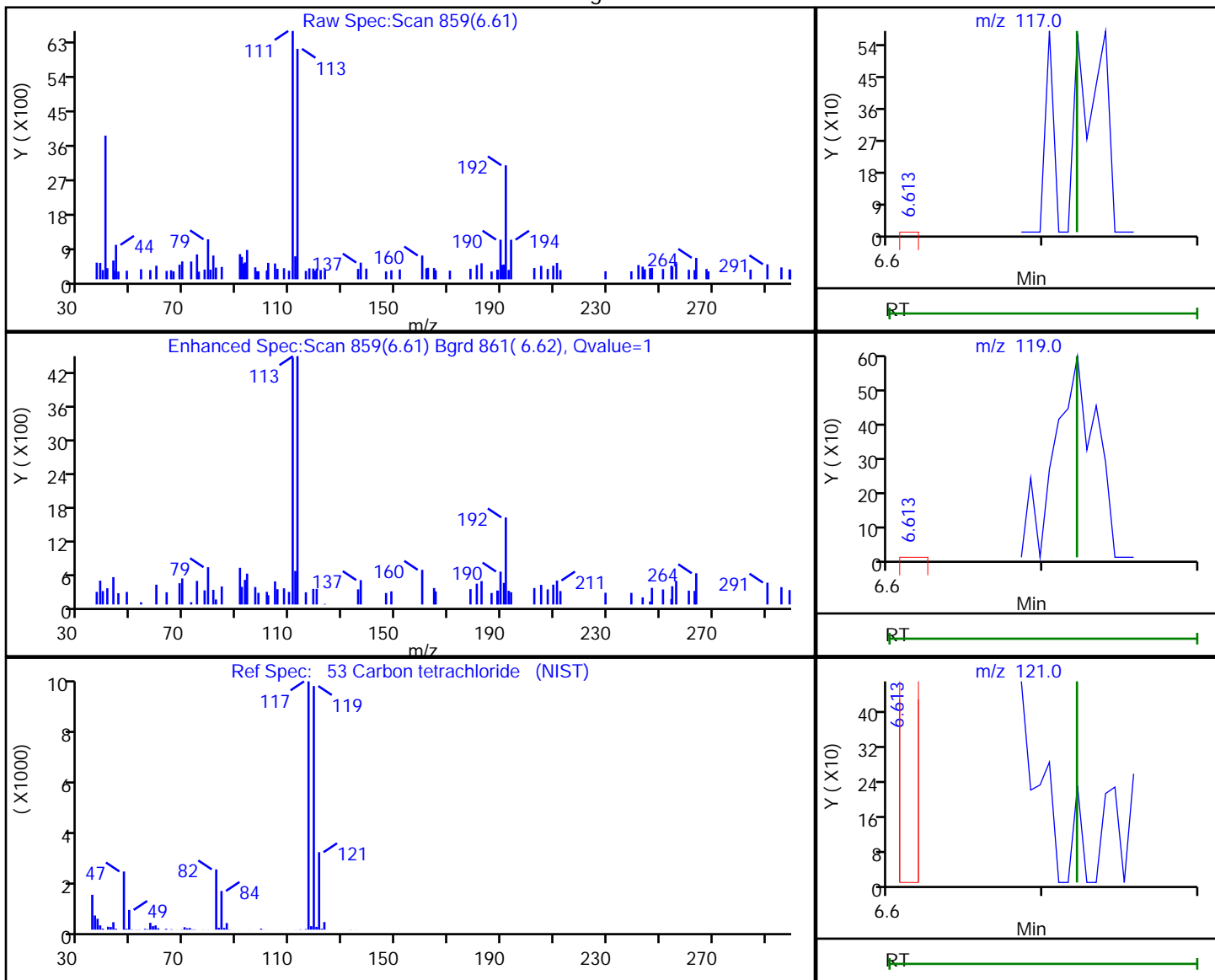
Audit Reason: Poor chromatography

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012507.D  
 Injection Date: 25-Jan-2020 13:27:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-10 Lab Sample ID: 180-101459-10  
 Client ID: HD-COD-SW-15-0/1-0  
 Operator ID: 433269 ALS Bottle#: 1 Worklist Smp#: 7  
 Purge Vol: 5.000 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
6.61	117.00	195	0.056133
6.61	119.00	271	
6.61	121.00	88	

Reviewer: bowieh, 25-Jan-2020 15:13:45

Audit Action: Marked Compound Undetected

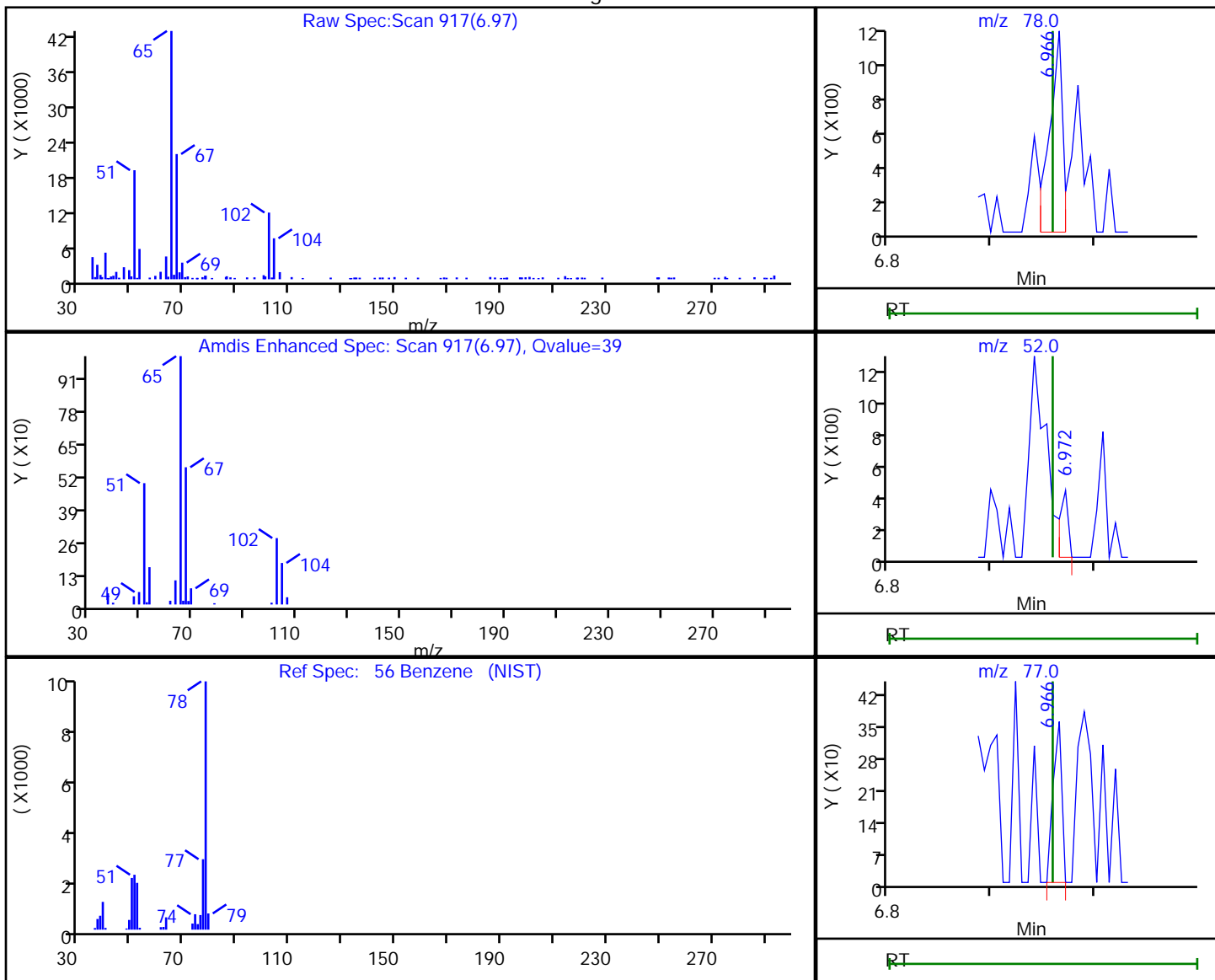
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012507.D  
 Injection Date: 25-Jan-2020 13:27:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-10 Lab Sample ID: 180-101459-10  
 Client ID: HD-COD-SW-15-0/1-0  
 Operator ID: 433269 ALS Bottle#: 1 Worklist Smp#: 7  
 Purge Vol: 5.000 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
6.97	78.00	1065	0.080490
6.97	52.00	237	
6.97	77.00	212	

Reviewer: bowieh, 25-Jan-2020 15:13:47

Audit Action: Marked Compound Undetected

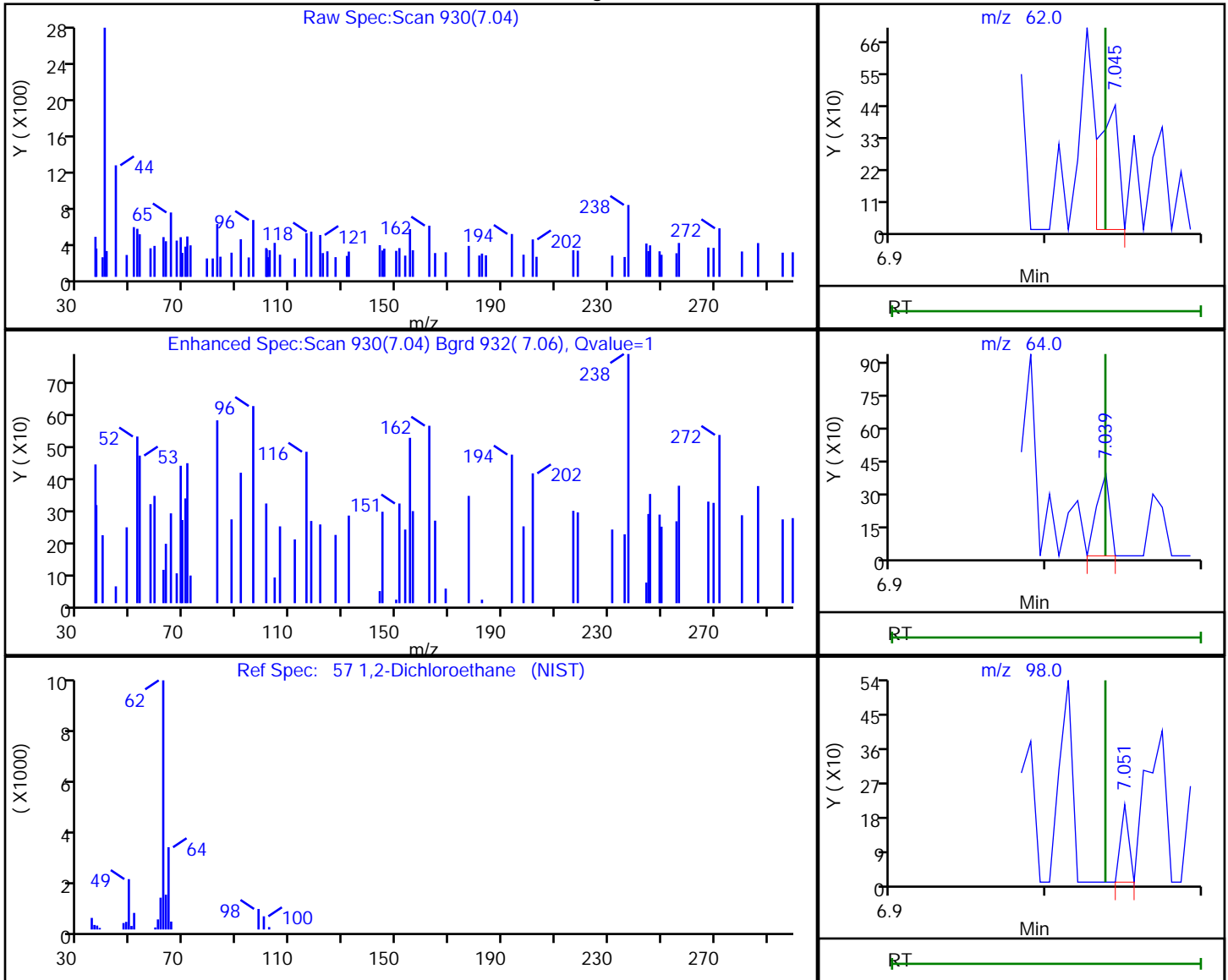
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012507.D  
 Injection Date: 25-Jan-2020 13:27:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-10 Lab Sample ID: 180-101459-10  
 Client ID: HD-COD-SW-15-0/1-0  
 Operator ID: 433269 ALS Bottle#: 1 Worklist Smp#: 7  
 Purge Vol: 5.000 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	402	0.110311
7.04	64.00	224	
7.05	98.00	75	

Reviewer: bowieh, 25-Jan-2020 15:13:55

Audit Action: Marked Compound Undetected

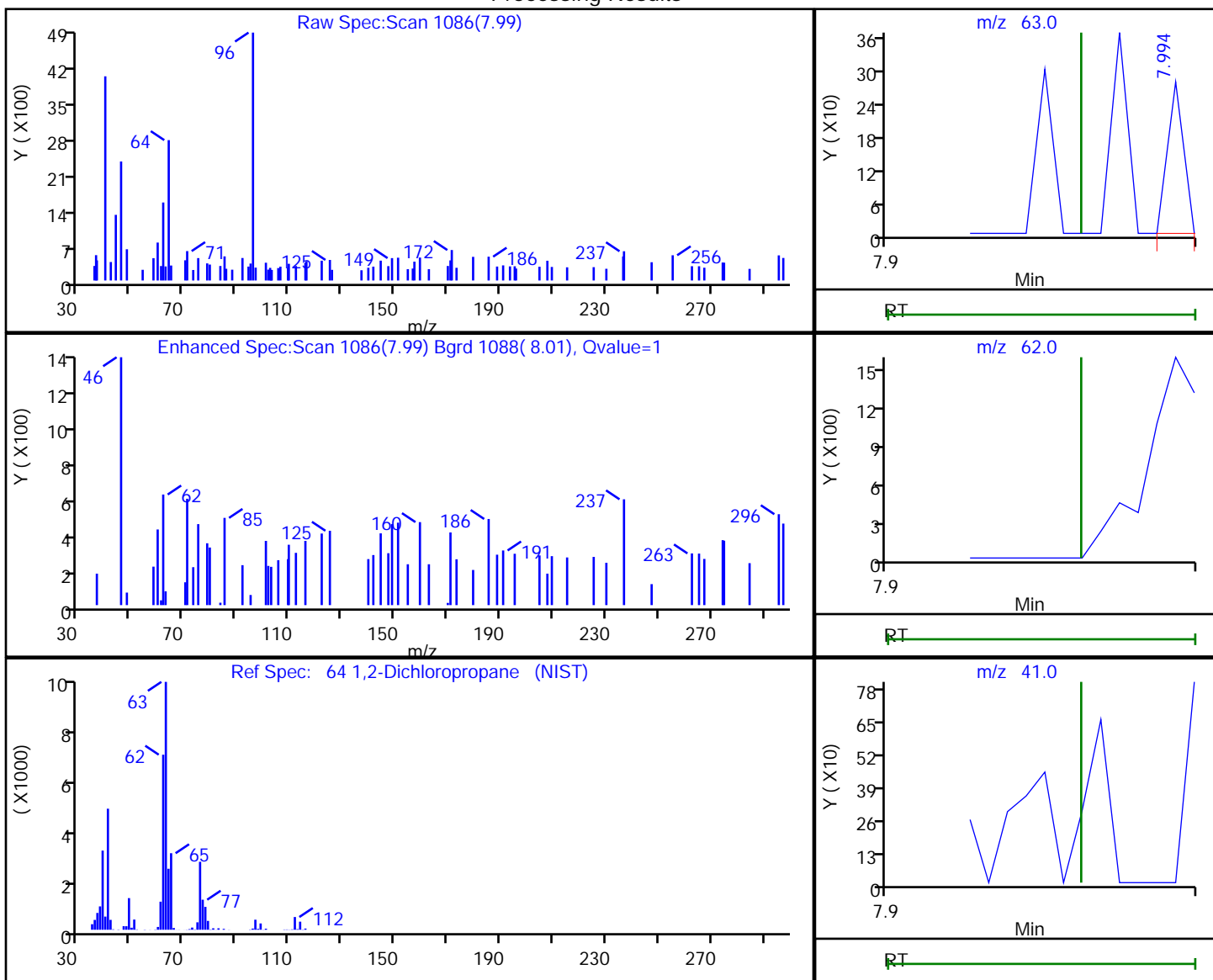
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012507.D  
 Injection Date: 25-Jan-2020 13:27:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-10 Lab Sample ID: 180-101459-10  
 Client ID: HD-COD-SW-15-0/1-0  
 Operator ID: 433269 ALS Bottle#: 1 Worklist Smp#: 7  
 Purge Vol: 5.000 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
7.99	63.00	101	0.032609
7.99	62.00	3417	
8.00	41.00	294	

Reviewer: bowieh, 25-Jan-2020 15:13:57

Audit Action: Marked Compound Undetected

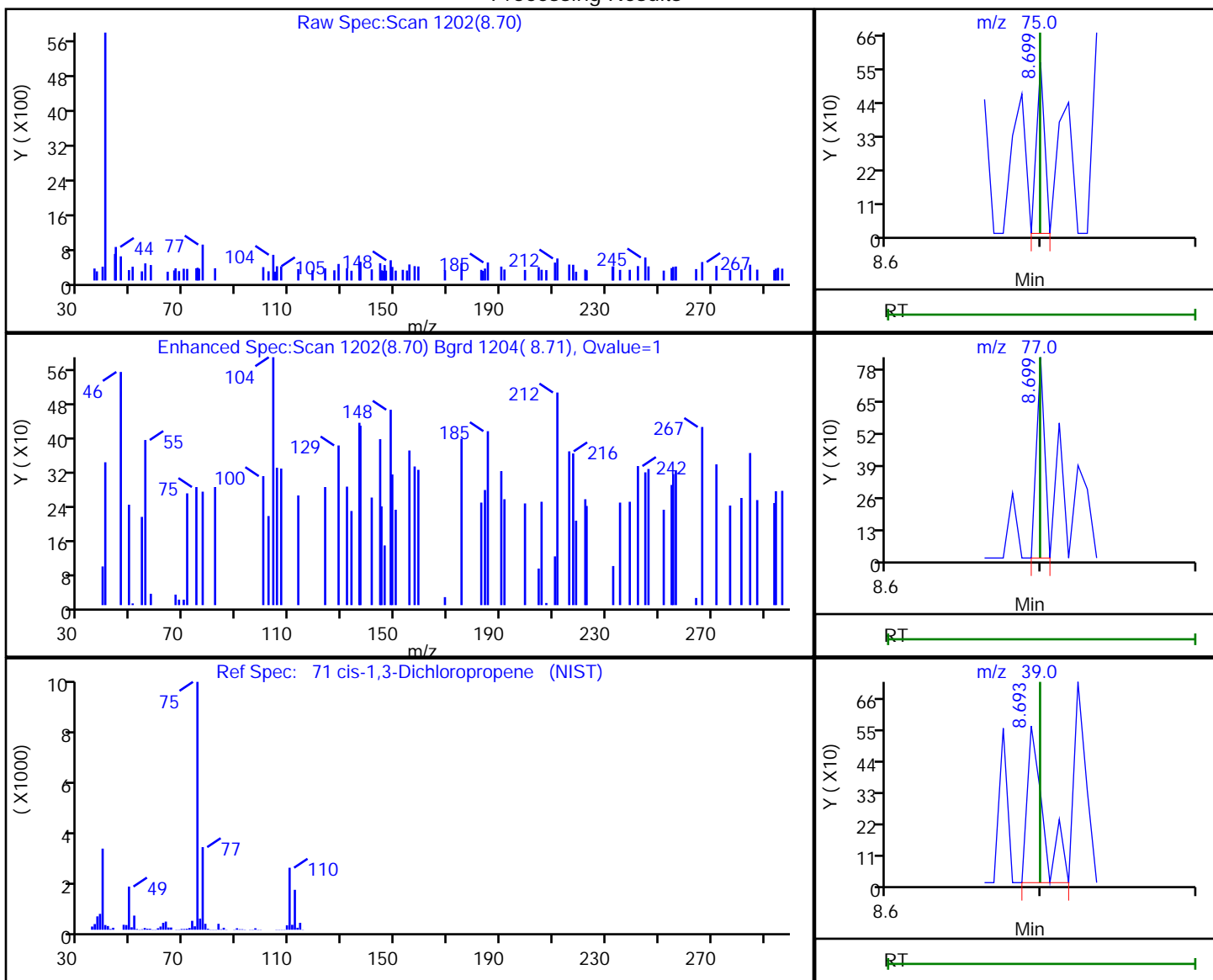
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Injection Date: 25-Jan-2020 13:27:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-10 Lab Sample ID: 180-101459-10  
 Client ID: HD-COD-SW-15-0/1-0  
 Operator ID: 433269 ALS Bottle#: 1 Worklist Smp#: 7  
 Purge Vol: 5.000 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	206	0.055020
8.70	77.00	301	
8.69	39.00	402	

Reviewer: bowieh, 25-Jan-2020 15:13:58

Audit Action: Marked Compound Undetected

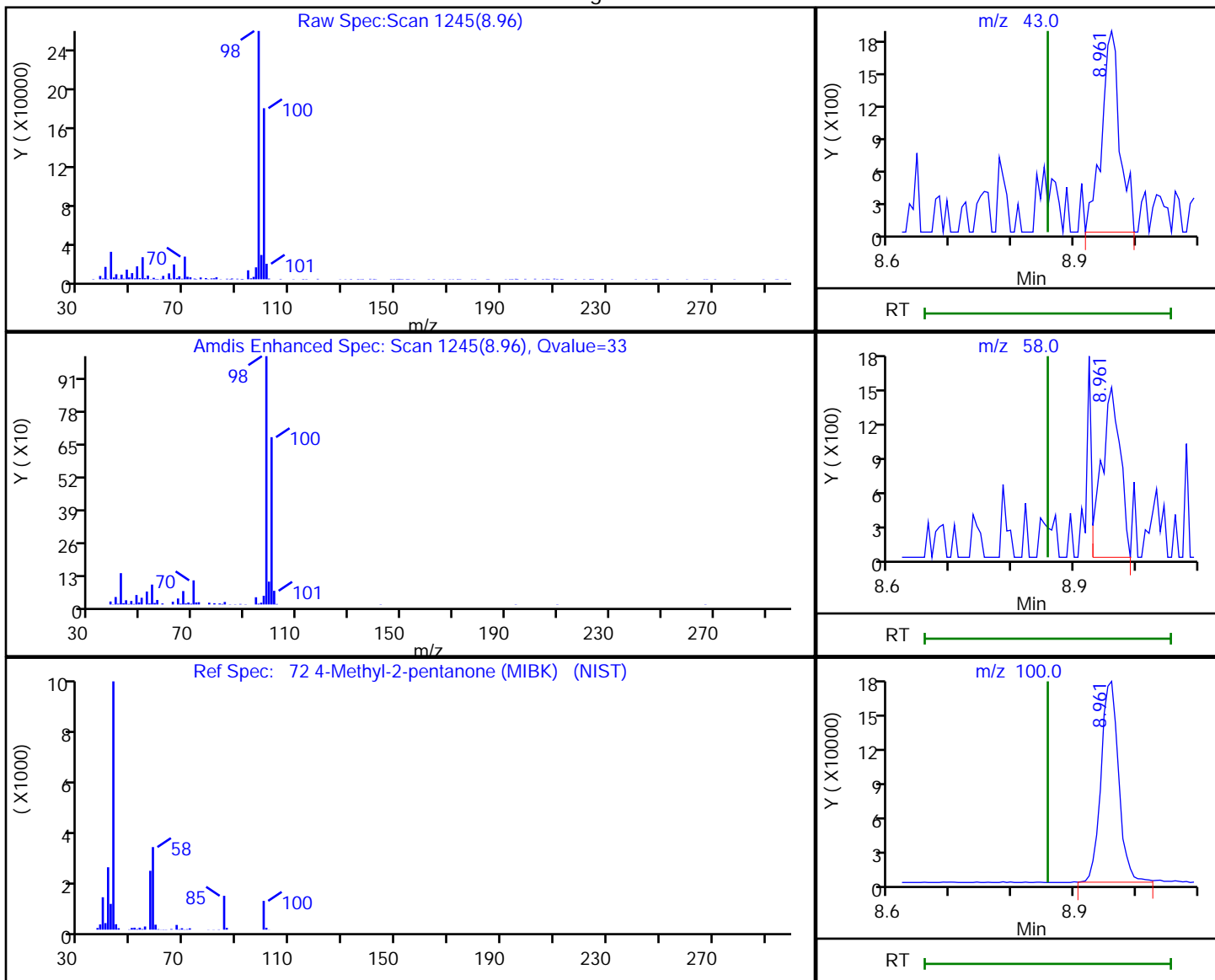
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012507.D  
 Injection Date: 25-Jan-2020 13:27:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-10 Lab Sample ID: 180-101459-10  
 Client ID: HD-COD-SW-15-0/1-0  
 Operator ID: 433269 ALS Bottle#: 1 Worklist Smp#: 7  
 Purge Vol: 5.000 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	3722	1.518965
8.96	58.00	3108	
8.96	100.00	343813	

Reviewer: bowieh, 25-Jan-2020 15:13:59

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

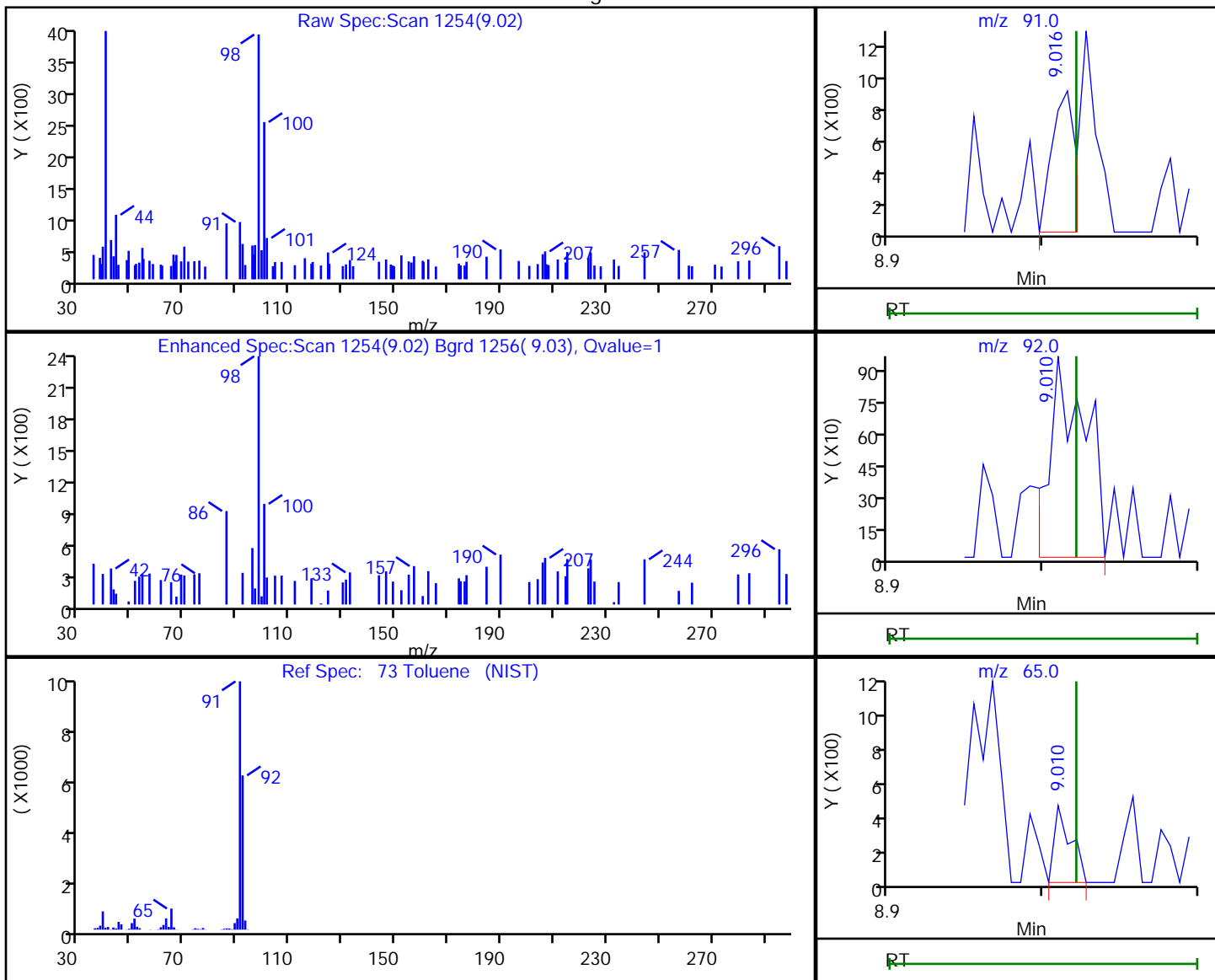


Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012507.D  
 Injection Date: 25-Jan-2020 13:27:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-10 Lab Sample ID: 180-101459-10  
 Client ID: HD-COD-SW-15-0/1-0  
 Operator ID: 433269 ALS Bottle#: 1 Worklist Smp#: 7  
 Purge Vol: 5.000 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
9.02	91.00	953	0.073172
9.01	92.00	1568	
9.01	65.00	318	

Reviewer: bowieh, 25-Jan-2020 15:14:01

Audit Action: Marked Compound Undetected

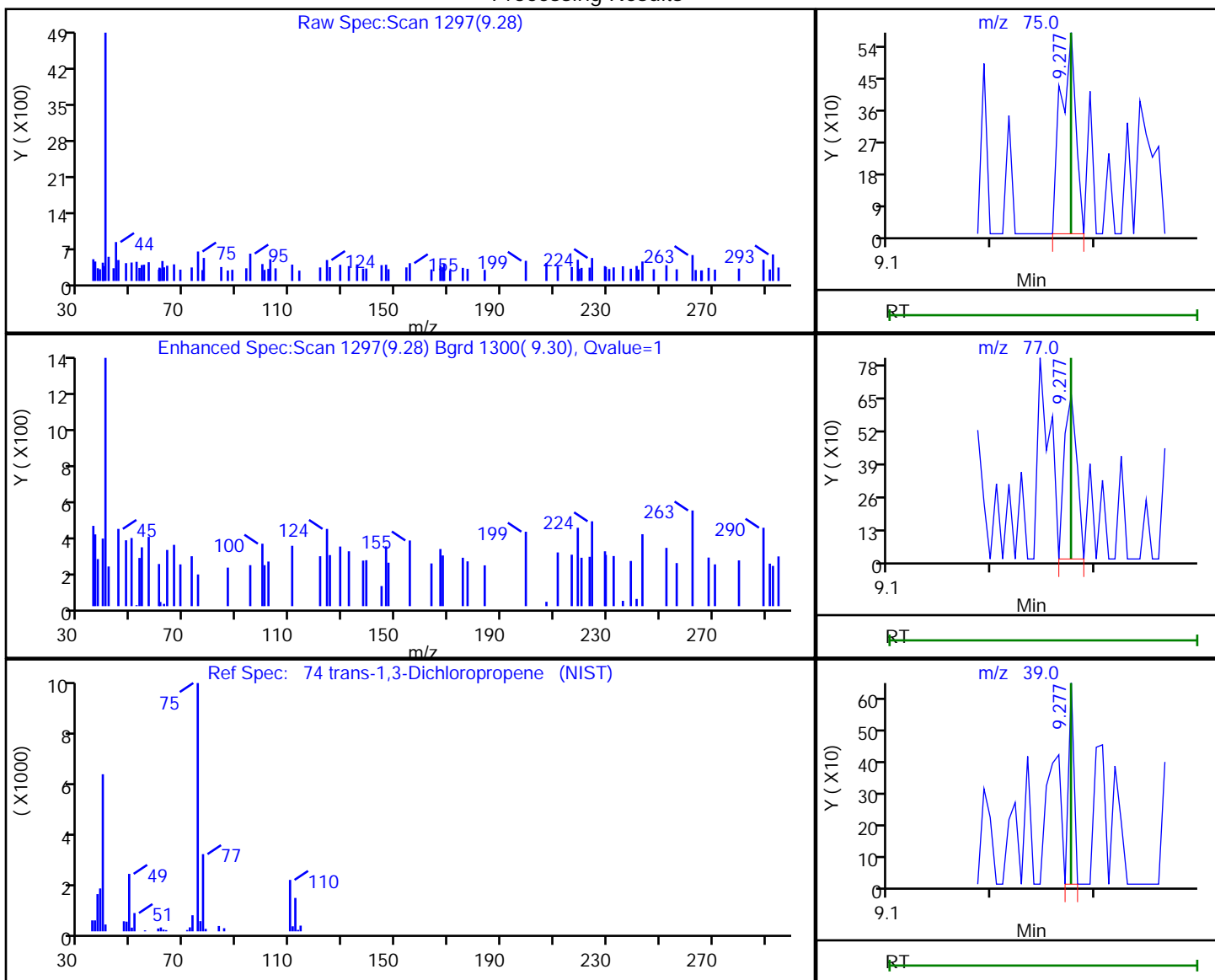
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Injection Date: 25-Jan-2020 13:27:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-10 Lab Sample ID: 180-101459-10  
 Client ID: HD-COD-SW-15-0/1-0  
 Operator ID: 433269 ALS Bottle#: 1 Worklist Smp#: 7  
 Purge Vol: 5.000 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
9.28	75.00	573	0.201236
9.28	77.00	560	
9.28	39.00	235	

Reviewer: bowieh, 25-Jan-2020 15:14:02

Audit Action: Marked Compound Undetected

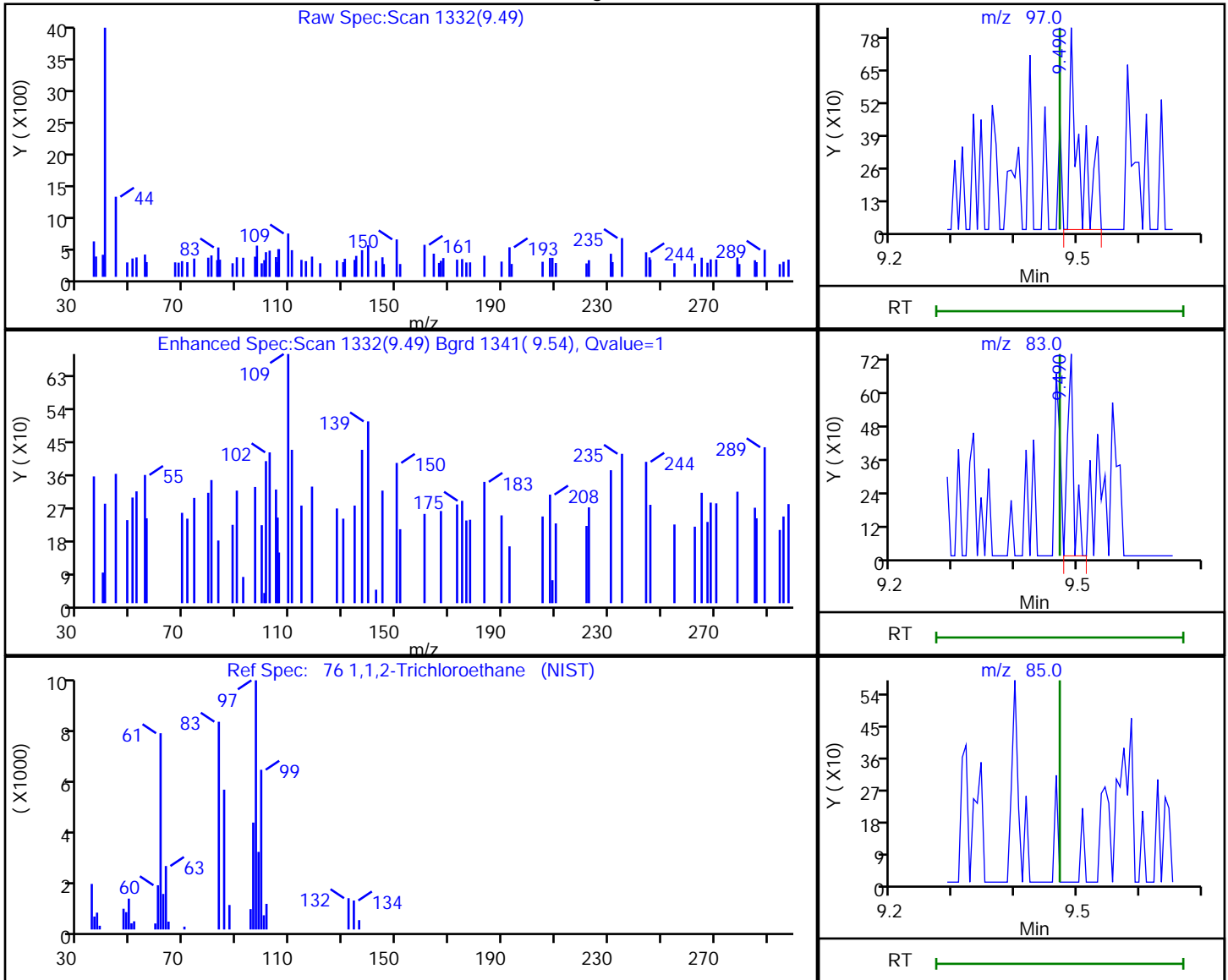
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012507.D  
 Injection Date: 25-Jan-2020 13:27:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-10 Lab Sample ID: 180-101459-10  
 Client ID: HD-COD-SW-15-0/1-0  
 Operator ID: 433269 ALS Bottle#: 1 Worklist Smp#: 7  
 Purge Vol: 5.000 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
9.49	97.00	907	0.382785
9.49	83.00	521	
9.47	85.00	0	

Reviewer: bowieh, 25-Jan-2020 15:14:03

Audit Action: Marked Compound Undetected

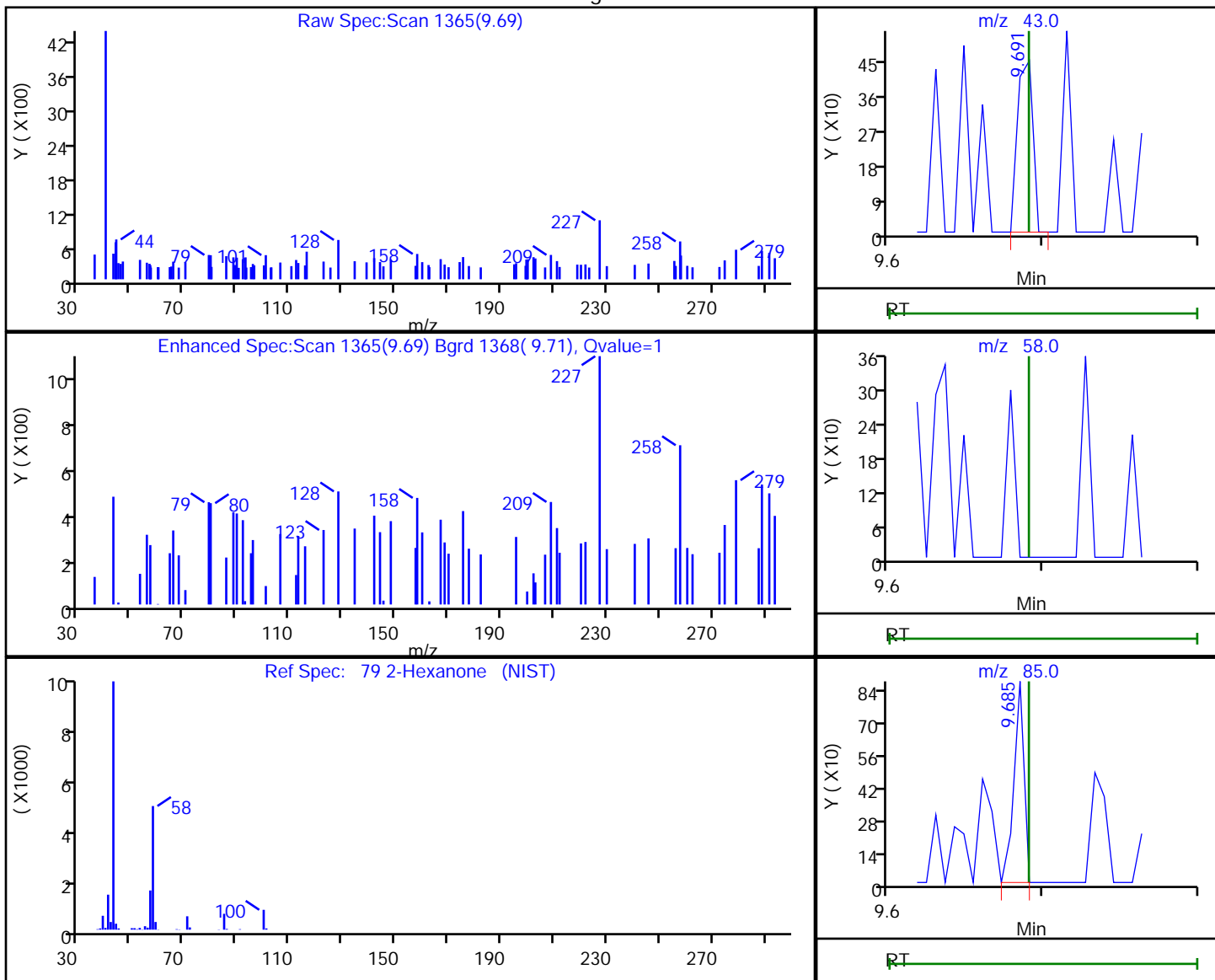
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Injection Date: 25-Jan-2020 13:27:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-10 Lab Sample ID: 180-101459-10  
 Client ID: HD-COD-SW-15-0/1-0  
 Operator ID: 433269 ALS Bottle#: 1 Worklist Smp#: 7  
 Purge Vol: 5.000 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	313	0.148288
9.69	58.00	0	
9.68	85.00	396	

Reviewer: bowieh, 25-Jan-2020 15:14:05

Audit Action: Marked Compound Undetected

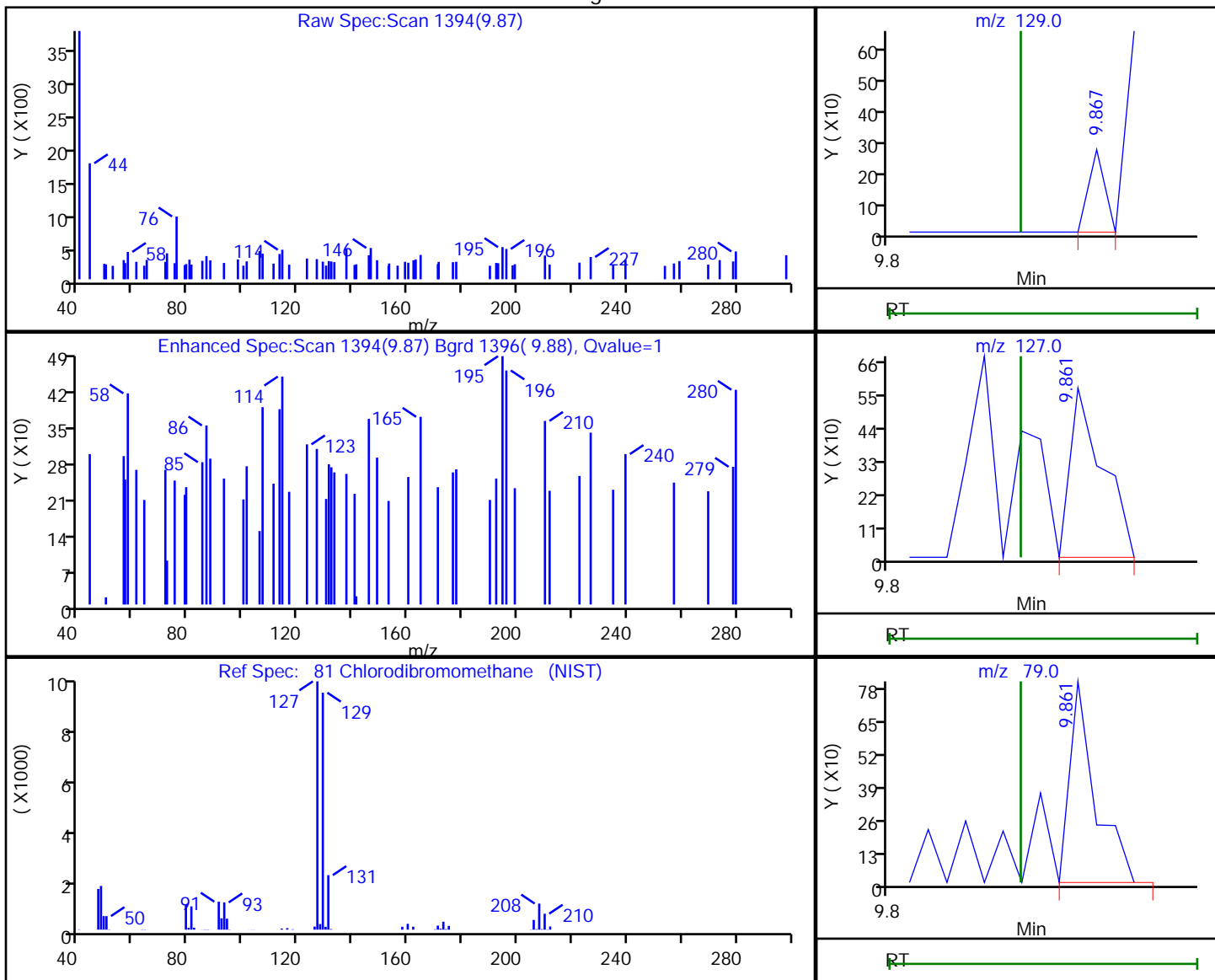
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Injection Date: 25-Jan-2020 13:27:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-10 Lab Sample ID: 180-101459-10  
 Client ID: HD-COD-SW-15-0/1-0  
 Operator ID: 433269 ALS Bottle#: 1 Worklist Smp#: 7  
 Purge Vol: 5.000 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
9.87	129.00	97	0.048471
9.86	127.00	417	
9.86	79.00	461	

Reviewer: bowieh, 25-Jan-2020 15:14:06

Audit Action: Marked Compound Undetected

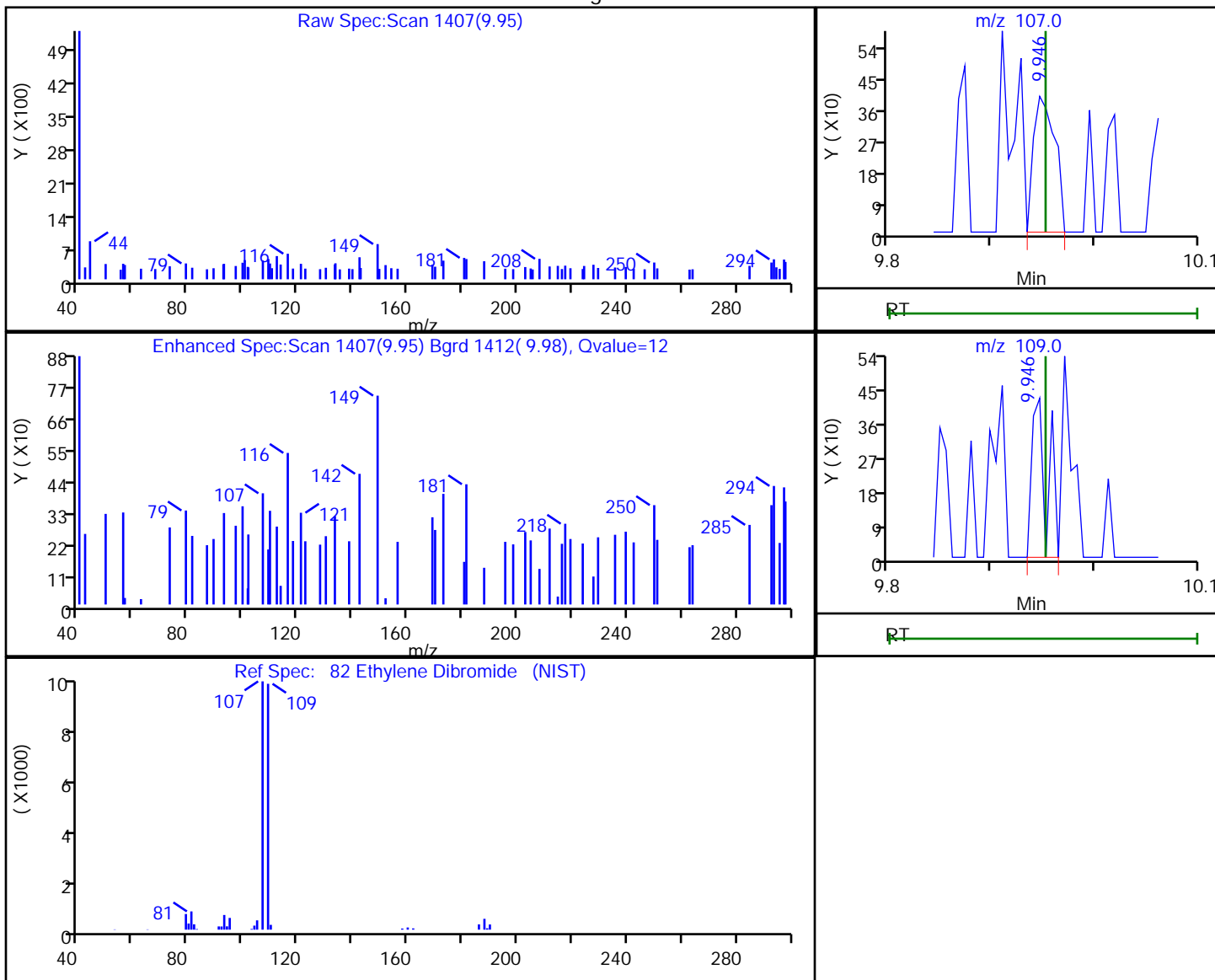
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Injection Date: 25-Jan-2020 13:27:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-10 Lab Sample ID: 180-101459-10  
 Client ID: HD-COD-SW-15-0/1-0  
 Operator ID: 433269 ALS Bottle#: 1 Worklist Smp#: 7  
 Purge Vol: 5.000 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
9.95	107.00	572	0.244605
9.95	109.00	438	

Reviewer: bowieh, 25-Jan-2020 15:14:07

Audit Action: Marked Compound Undetected

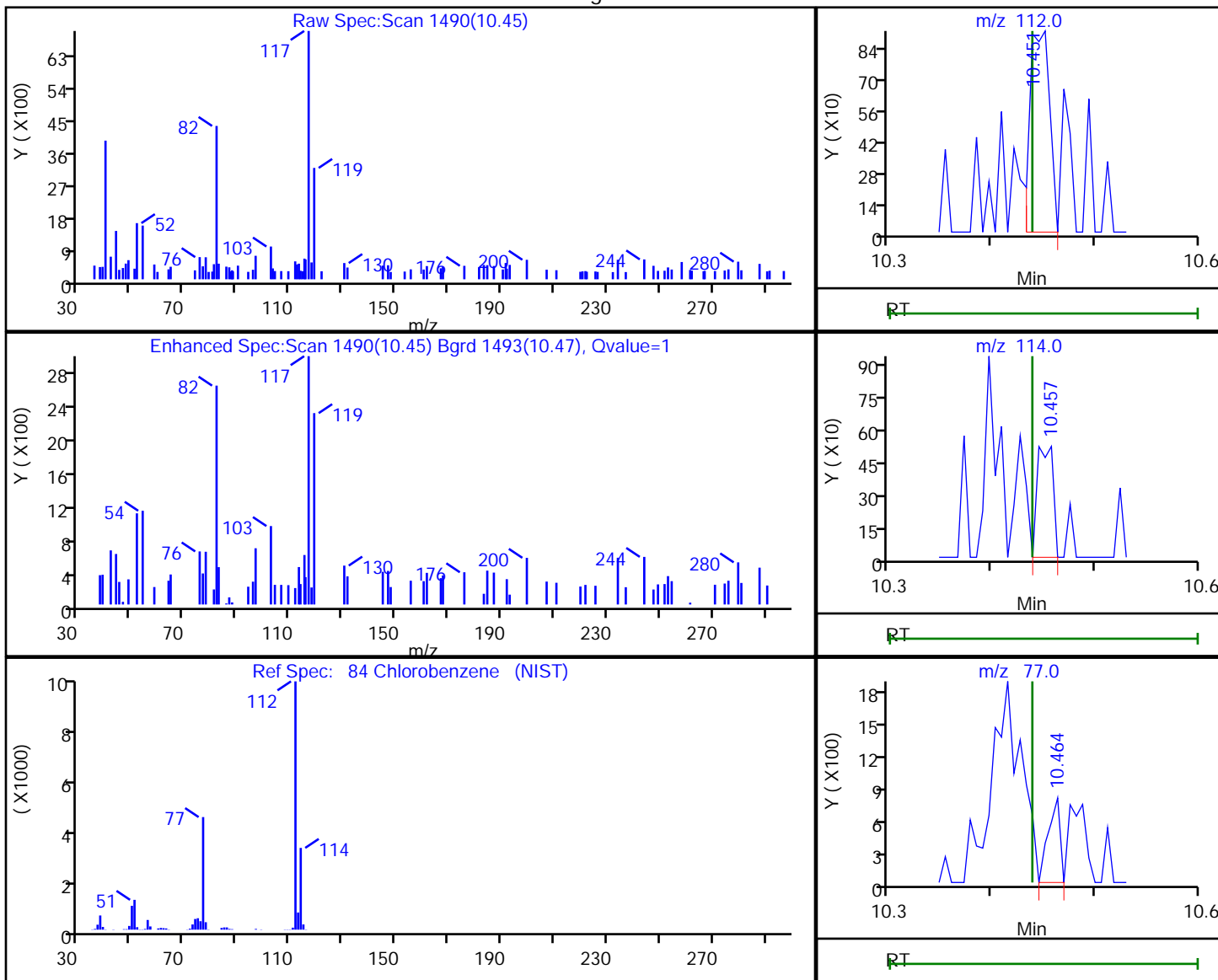
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012507.D  
 Injection Date: 25-Jan-2020 13:27:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-10 Lab Sample ID: 180-101459-10  
 Client ID: HD-COD-SW-15-0/1-0  
 Operator ID: 433269 ALS Bottle#: 1 Worklist Smp#: 7  
 Purge Vol: 5.000 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
10.45	112.00	1225	0.141101
10.46	114.00	546	
10.46	77.00	621	

Reviewer: bowieh, 25-Jan-2020 15:14:09

Audit Action: Marked Compound Undetected

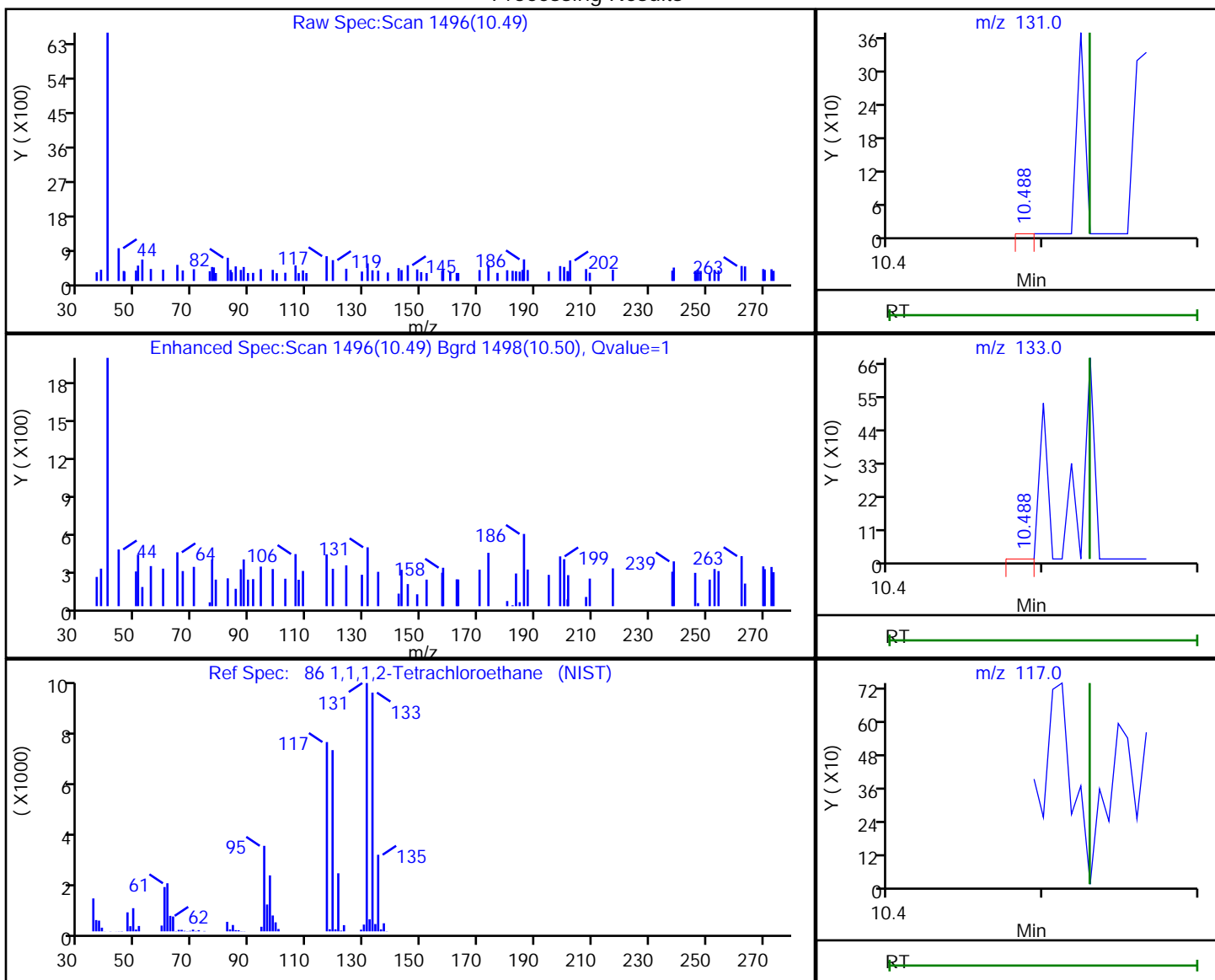
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012507.D  
 Injection Date: 25-Jan-2020 13:27:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-10 Lab Sample ID: 180-101459-10  
 Client ID: HD-COD-SW-15-0/1-0  
 Operator ID: 433269 ALS Bottle#: 1 Worklist Smp#: 7  
 Purge Vol: 5.000 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
10.49	131.00	168	0.065878
10.49	133.00	177	
10.53	117.00	0	

Reviewer: bowieh, 25-Jan-2020 15:14:10

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

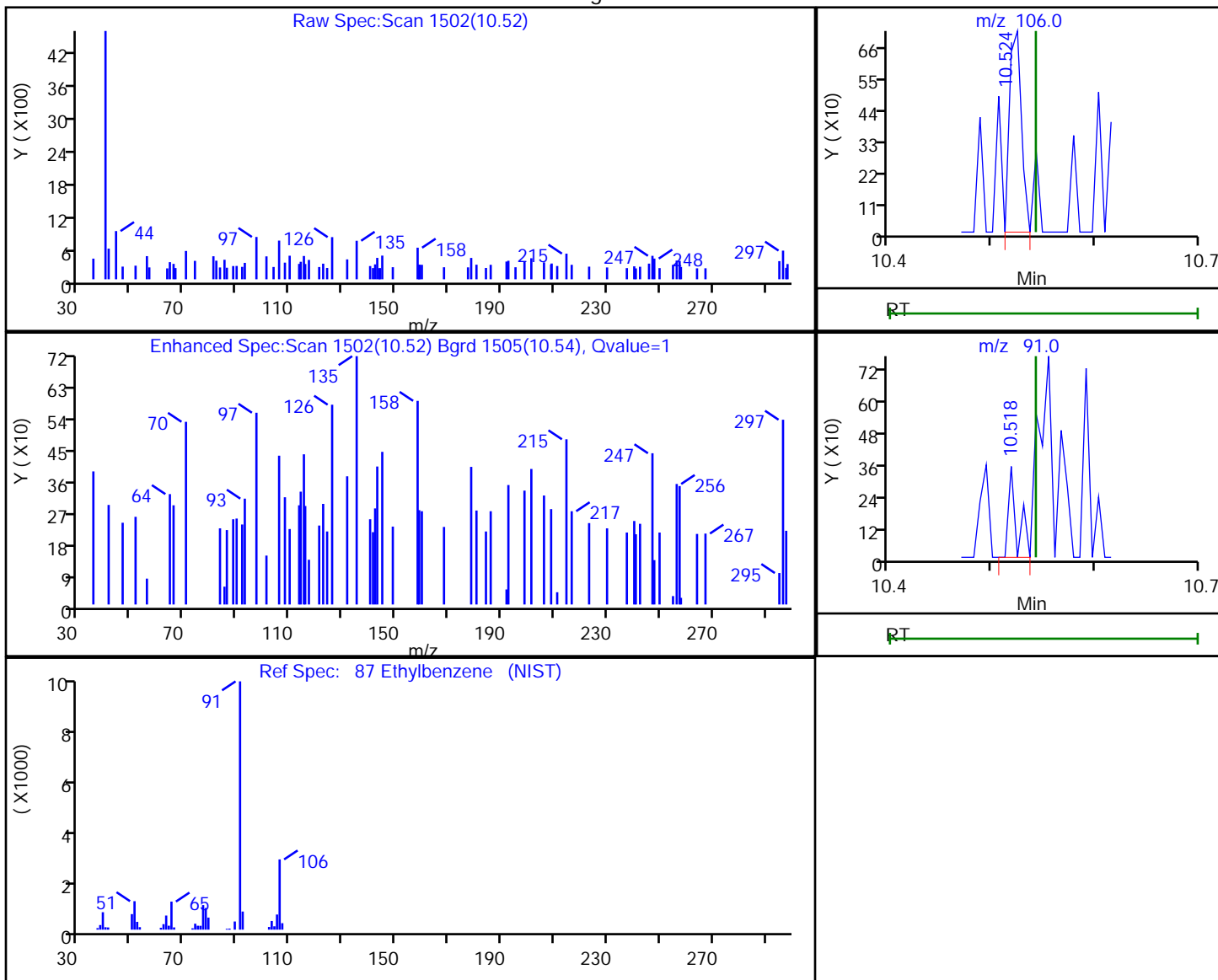


Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012507.D  
 Injection Date: 25-Jan-2020 13:27:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-10 Lab Sample ID: 180-101459-10  
 Client ID: HD-COD-SW-15-0/1-0  
 Operator ID: 433269 ALS Bottle#: 1 Worklist Smp#: 7  
 Purge Vol: 5.000 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
10.52	106.00	575	0.115734
10.52	91.00	199	

Reviewer: bowieh, 25-Jan-2020 15:14:12

Audit Action: Marked Compound Undetected

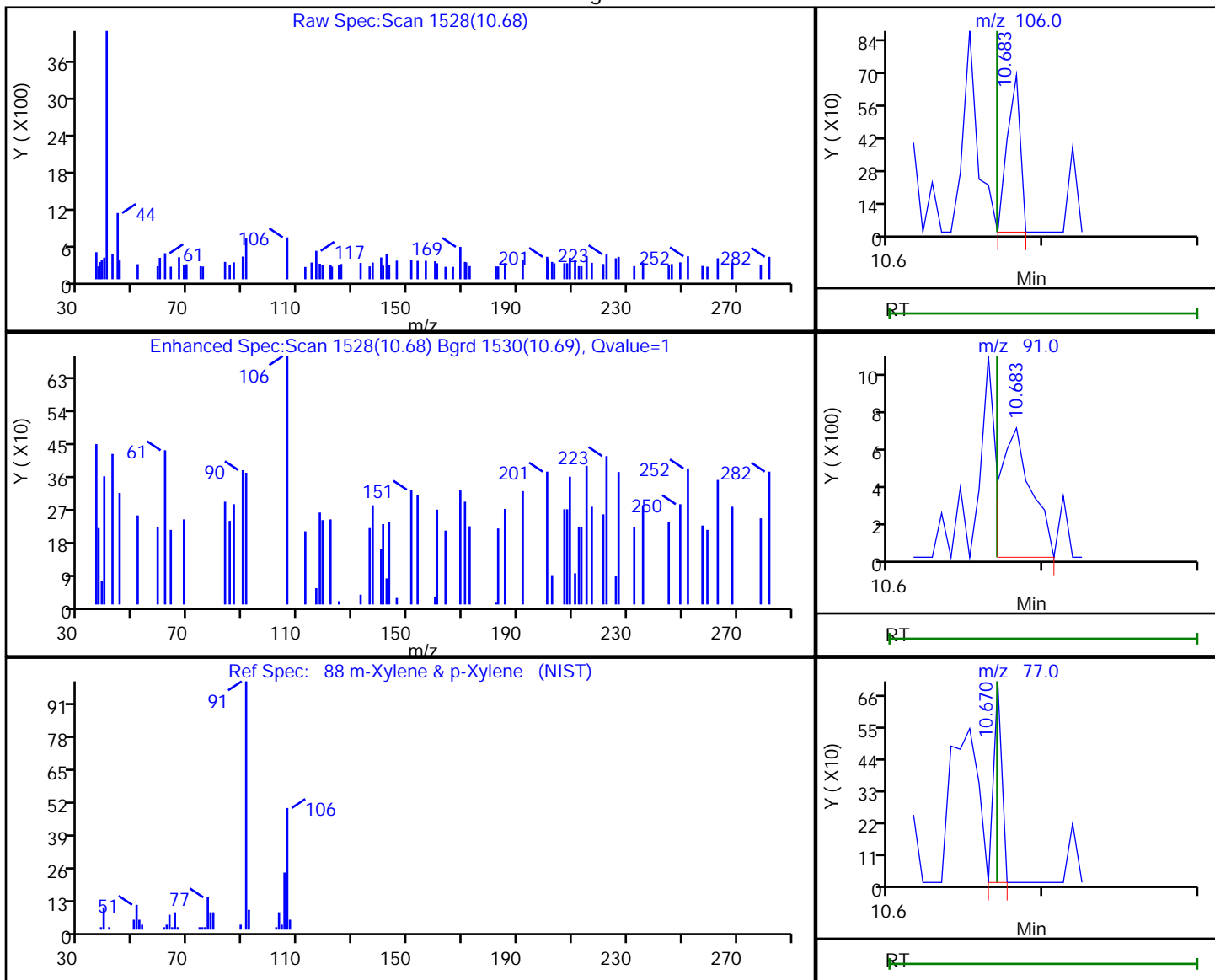
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012507.D  
 Injection Date: 25-Jan-2020 13:27:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-10 Lab Sample ID: 180-101459-10  
 Client ID: HD-COD-SW-15-0/1-0  
 Operator ID: 433269 ALS Bottle#: 1 Worklist Smp#: 7  
 Purge Vol: 5.000 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
10.68	106.00	400	0.067163
10.68	91.00	938	
10.67	77.00	256	

Reviewer: bowieh, 25-Jan-2020 15:14:13

Audit Action: Marked Compound Undetected

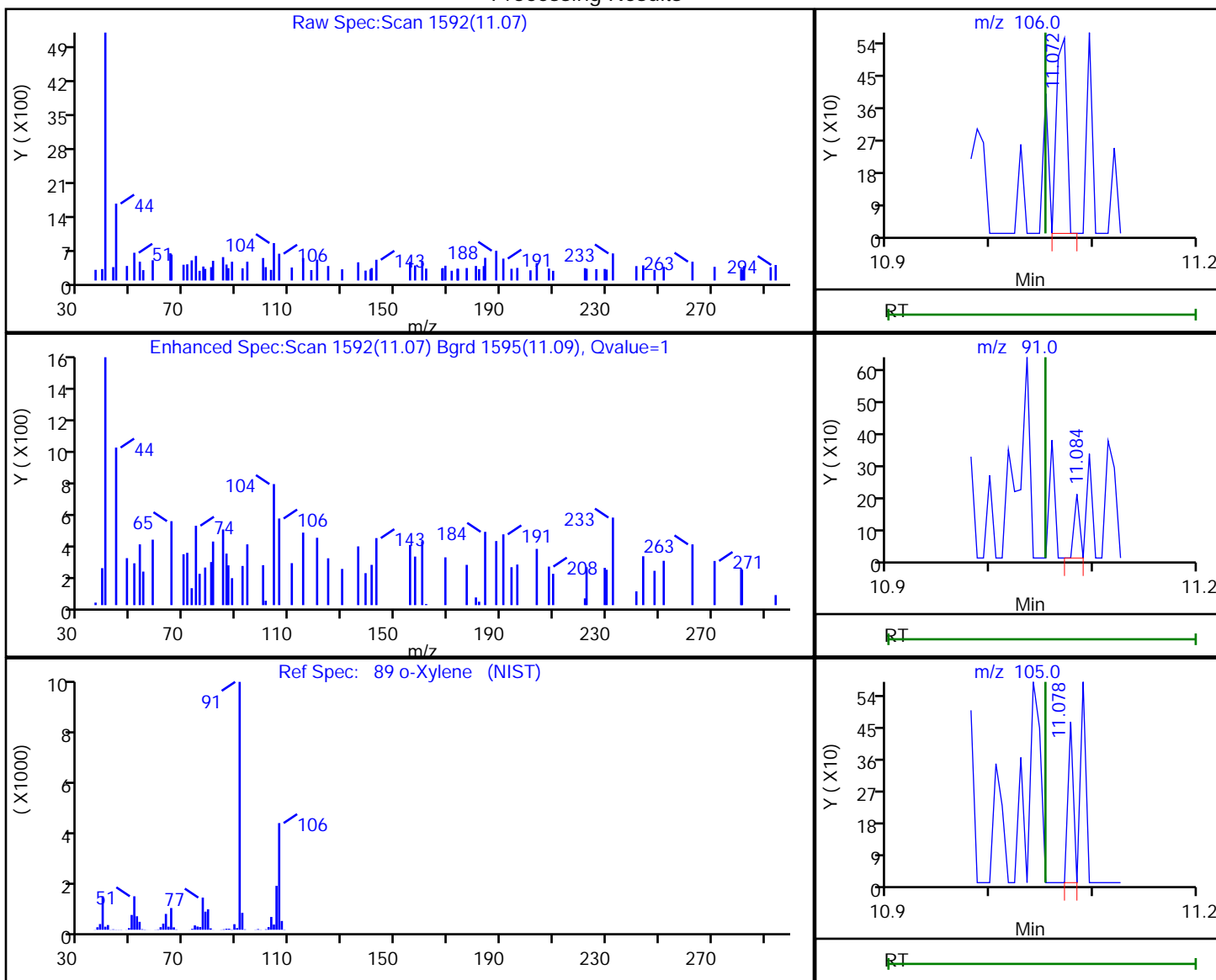
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Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012507.D  
 Injection Date: 25-Jan-2020 13:27:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-10 Lab Sample ID: 180-101459-10  
 Client ID: HD-COD-SW-15-0/1-0  
 Operator ID: 433269 ALS Bottle#: 1 Worklist Smp#: 7  
 Purge Vol: 5.000 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	384	0.067765
11.08	91.00	73	
11.08	105.00	169	

Reviewer: bowieh, 25-Jan-2020 15:14:15

Audit Action: Marked Compound Undetected

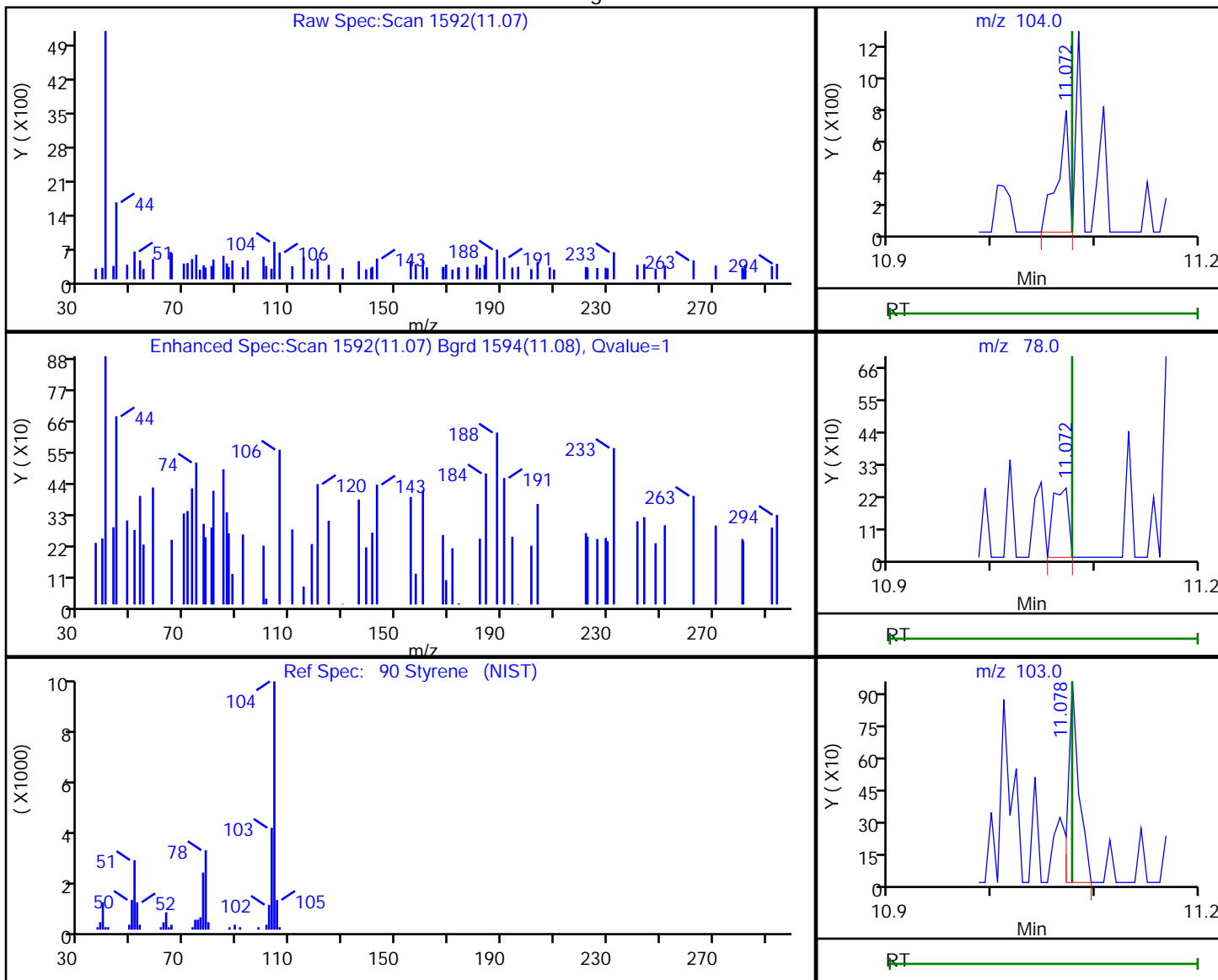
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012507.D  
 Injection Date: 25-Jan-2020 13:27:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-10 Lab Sample ID: 180-101459-10  
 Client ID: HD-COD-SW-15-0/1-0  
 Operator ID: 433269 ALS Bottle#: 1 Worklist Smp#: 7  
 Purge Vol: 5.000 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
11.07	104.00	582	0.064832
11.07	78.00	248	
11.08	103.00	668	

Reviewer: bowieh, 25-Jan-2020 15:14:16

Audit Action: Marked Compound Undetected

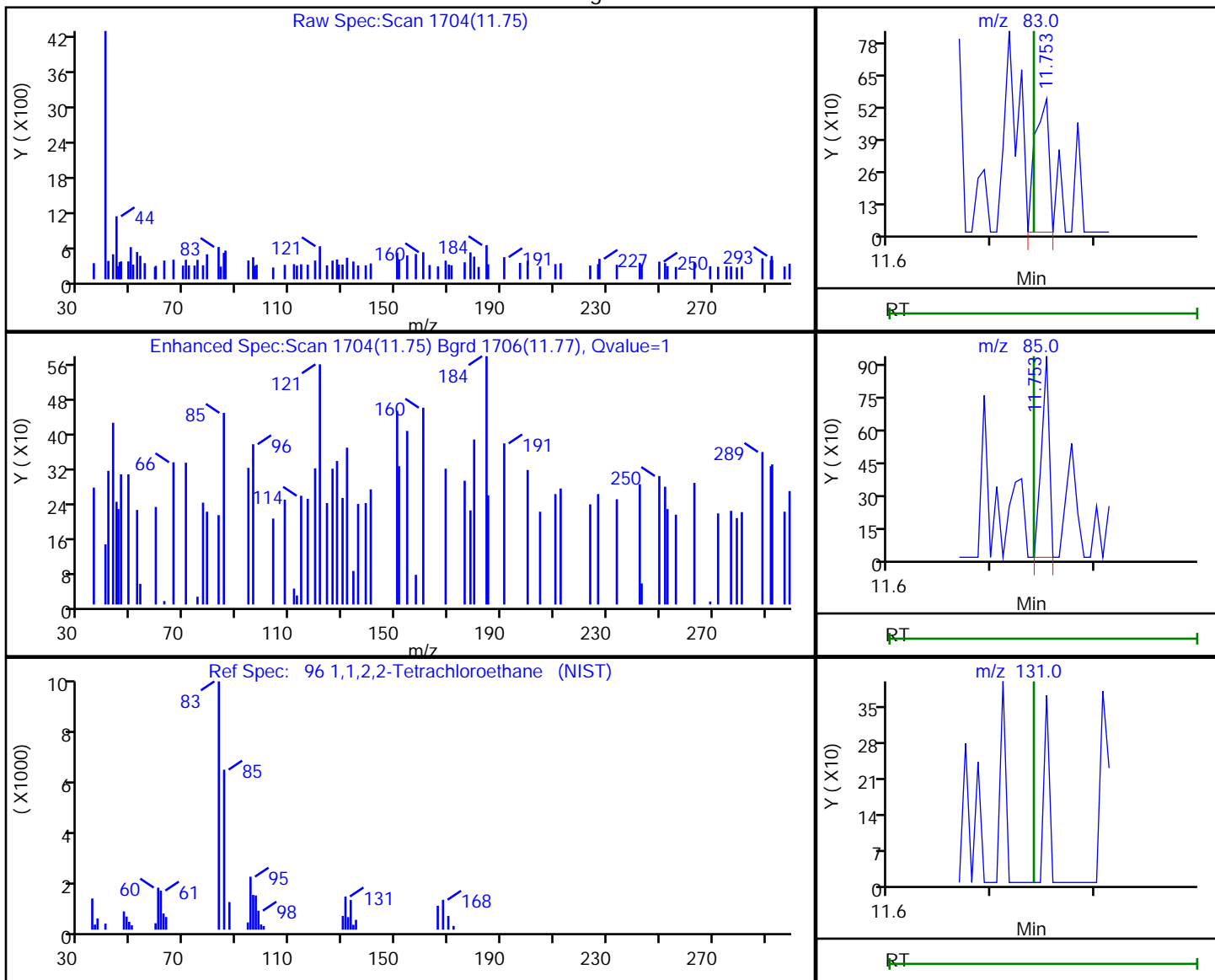
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012507.D  
 Injection Date: 25-Jan-2020 13:27:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-10 Lab Sample ID: 180-101459-10  
 Client ID: HD-COD-SW-15-0/1-0  
 Operator ID: 433269 ALS Bottle#: 1 Worklist Smp#: 7  
 Purge Vol: 5.000 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
11.75	83.00	510	0.201931
11.75	85.00	487	
11.74	131.00	0	

Reviewer: bowieh, 25-Jan-2020 15:14:21

Audit Action: Marked Compound Undetected

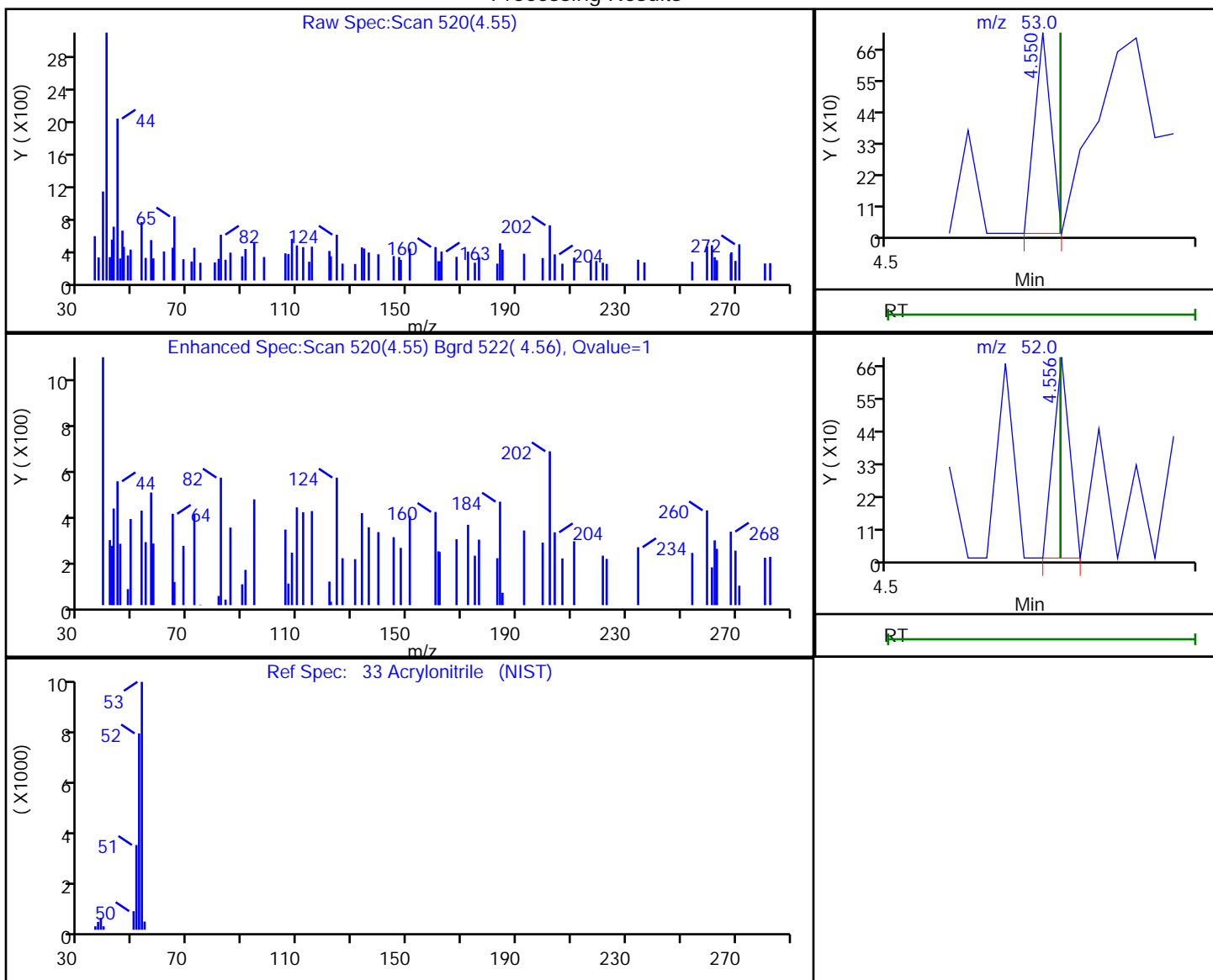
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012507.D  
 Injection Date: 25-Jan-2020 13:27:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-10 Lab Sample ID: 180-101459-10  
 Client ID: HD-COD-SW-15-0/1-0  
 Operator ID: 433269 ALS Bottle#: 1 Worklist Smp#: 7  
 Purge Vol: 5.000 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
4.55	53.00	260	0.216182
4.56	52.00	249	

Reviewer: bowieh, 25-Jan-2020 15:12:59

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.: 180-101459-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: HD-QC1-0/1-1 Lab Sample ID: 180-101459-11  
 Matrix: Water Lab File ID: 6012517.D  
 Analysis Method: EPA 8260C Date Collected: 01/23/2020 12:00  
 Sample wt/vol: 5 (mL) Date Analyzed: 01/25/2020 17:59  
 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.: 304996 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	ND	^c	1.0	0.88
74-83-9	Bromomethane	ND	^c	1.0	0.89
75-00-3	Chloroethane	ND	^c	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	4.0		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.: 180-101459-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: HD-QC1-0/1-1 Lab Sample ID: 180-101459-11  
 Matrix: Water Lab File ID: 6012517.D  
 Analysis Method: EPA 8260C Date Collected: 01/23/2020 12:00  
 Sample wt/vol: 5 (mL) Date Analyzed: 01/25/2020 17:59  
 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.: 304996 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)	117		70-150
2037-26-5	Toluene-d8 (Surr)	104		78-128
460-00-4	4-Bromofluorobenzene (Surr)	83		64-123
1868-53-7	Dibromofluoromethane (Surr)	111		75-147



Eurofins TestAmerica, Pittsburgh  
Target Compound Quantitation Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012517.D  
 Lims ID: 180-101459-B-11  
 Client ID: HD-QC1-0/1-1  
 Sample Type: Client  
 Inject. Date: 25-Jan-2020 17:59:30 ALS Bottle#: 11 Worklist Smp#: 17  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 180-0030512-017  
 Misc. Info.: 180-101459-b-11  
 Operator ID: 433269 Instrument ID: CHHP6  
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\MSVOA\_LL\_CHHP6.m  
 Limit Group: VOA 8260C\_D ICAL  
 Last Update: 28-Jan-2020 09:42:07 Calib Date: 31-Dec-2019 16:03:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123111.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0335

First Level Reviewer: bowieh

Date: 28-Jan-2020 09:42:07

Compound	Sig	RT (min.)	Exp RT (min.)	Diff RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.296	4.319	-0.023	91	130039	1000.0	
* 2 Fluorobenzene (IS)	96	7.307	7.306	0.001	99	469848	50.0	
* 3 Chlorobenzene-d5	119	10.410	10.408	0.002	84	114912	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.758	12.757	0.001	93	149712	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.577	6.582	-0.005	95	117444	55.5	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.948	6.953	-0.005	96	128663	58.4	
\$ 7 Toluene-d8 (Surr)	98	8.956	8.954	0.002	93	441363	51.8	
\$ 8 4-Bromofluorobenzene (Surr	95	11.596	11.595	0.001	0	125736	41.4	
12 Chloromethane	50		1.837				ND	U
13 Vinyl chloride	62		1.952				ND	U
15 Bromomethane	94		2.287				ND	U
16 Chloroethane	64		2.421				ND	U
22 1,1-Dichloroethene	96	3.365	3.370	-0.005	10	1354	0.6018	
24 Acetone	43	3.463	3.473	-0.011	71	6509	5.68	M
26 Carbon disulfide	76		3.662				ND	U
31 Methylene Chloride	84	4.174	4.155	0.019	64	3465	-5.46	a
33 Acrylonitrile	53		4.556				ND	U
34 trans-1,2-Dichloroethene	96		4.574				ND	U
35 Methyl tert-butyl ether	73		4.611				ND	U
37 1,1-Dichloroethane	63		5.219				ND	U
43 cis-1,2-Dichloroethene	96		5.967				ND	U
44 2-Butanone (MEK)	43		5.980				ND	U
48 Chlorobromomethane	128		6.247				ND	U
50 Chloroform	83		6.393				ND	U
51 1,1,1-Trichloroethane	97		6.558				ND	U
53 Carbon tetrachloride	117		6.722				ND	U
56 Benzene	78		6.959				ND	U
57 1,2-Dichloroethane	62		7.038				ND	U
61 Trichloroethene	130	7.691	7.689	0.002	45	3626	1.20	
64 1,2-Dichloropropane	63		7.963				ND	U
68 Dichlorobromomethane	83		8.249				ND	U

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
71 cis-1,3-Dichloropropene	75		8.699				ND	U
72 4-Methyl-2-pentanone (MIBK)	43		8.857				ND	U
73 Toluene	91	9.011	9.021	-0.010	5	3897	0.3599	Ma
74 trans-1,3-Dichloropropene	75		9.277				ND	U
76 1,1,2-Trichloroethane	97		9.472				ND	U
77 Tetrachloroethene	164	9.534	9.538	-0.004	97	53298	19.9	
79 2-Hexanone	43		9.691				ND	U
81 Chlorodibromomethane	129		9.843				ND	U
82 Ethylene Dibromide	107		9.952				ND	U
84 Chlorobenzene	112		10.439				ND	U
86 1,1,1,2-Tetrachloroethane	131		10.530				ND	U
87 Ethylbenzene	106		10.542				ND	U
88 m-Xylene & p-Xylene	106		10.670				ND	U
89 o-Xylene	106		11.053				ND	U
90 Styrene	104		11.078				ND	U
91 Bromoform	173		11.254				ND	U
96 1,1,2,2-Tetrachloroethane	83		11.741				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:

VOA8260INT\_00103

Amount Added: 2.00

Units: uL

Run Reagent

VOA8260SURR\_00103

Amount Added: 2.00

Units: uL

Run Reagent

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012517.D

Injection Date: 25-Jan-2020 17:59:30

Instrument ID: CHHP6

Operator ID: 433269

Lims ID: 180-101459-B-11

Lab Sample ID: 180-101459-11

Worklist Smp#: 17

Client ID: HD-QC1-0/1-1

Purge Vol: 5.000 mL

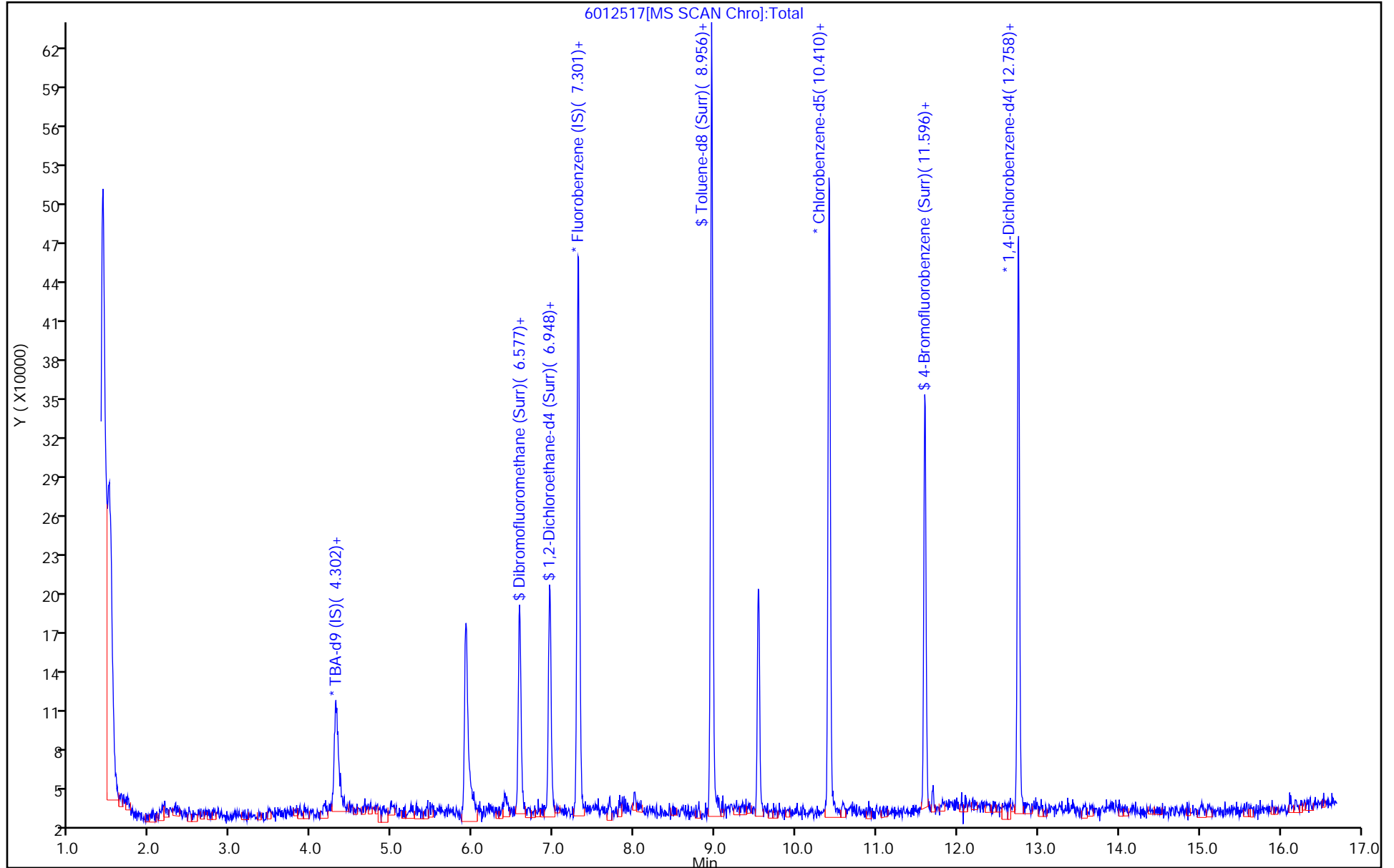
Dil. Factor: 1.0000

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\20200125-30512.b\6012517.D  
 Lims ID: 180-101459-B-11  
 Client ID: HD-QC1-0/1-1  
 Sample Type: Client  
 Inject. Date: 25-Jan-2020 17:59:30 ALS Bottle#: 11 Worklist Smp#: 17  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 180-0030512-017  
 Misc. Info.: 180-101459-b-11  
 Operator ID: 433269 Instrument ID: CHHP6  
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\MSVOA\_LL\_CHHP6.m  
 Limit Group: VOA 8260C\_D ICAL  
 Last Update: 28-Jan-2020 09:42:07 Calib Date: 31-Dec-2019 16:03:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123111.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0335

First Level Reviewer: bowieh Date: 28-Jan-2020 09:42:07

Compound	Amount Added	Amount Recovered	% Rec.
\$ 5 Dibromofluoromethane (Surr)	50.0	55.5	110.94
\$ 6 1,2-Dichloroethane-d4 (Surr)	50.0	58.4	116.79
\$ 7 Toluene-d8 (Surr)	50.0	51.8	103.70
\$ 8 4-Bromofluorobenzene (Surr)	50.0	41.4	82.71

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012517.D

Injection Date: 25-Jan-2020 17:59:30

Instrument ID: CHHP6

Lims ID: 180-101459-B-11

Lab Sample ID: 180-101459-11

Client ID: HD-QC1-0/1-1

Operator ID: 433269

ALS Bottle#: 11 Worklist Smp#: 17

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

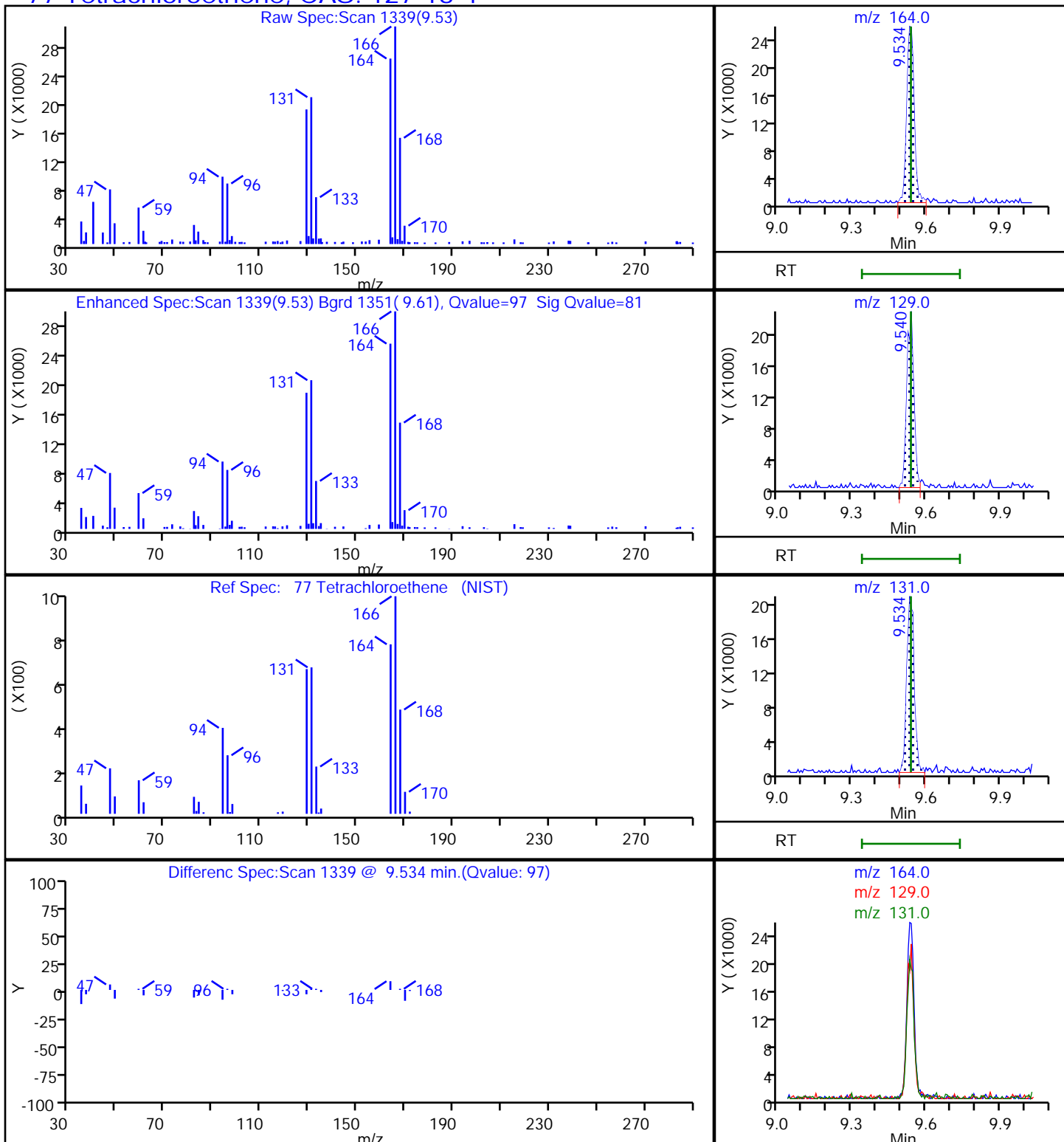
Method: MSVOA\_LL\_CHHP6

Limit Group: VOA 8260C\_D ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

### 77 Tetrachloroethene, CAS: 127-18-4

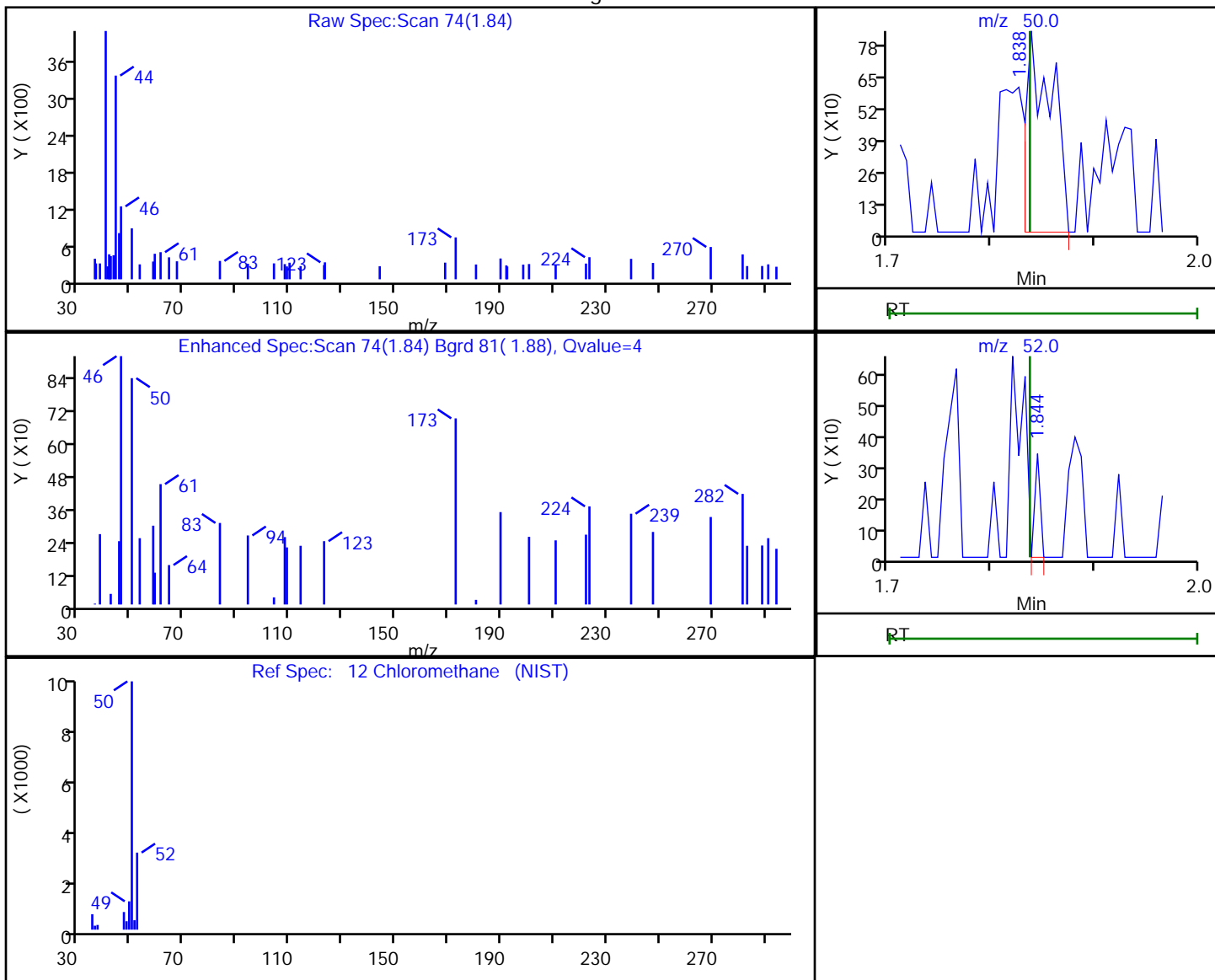


Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012517.D  
Injection Date: 25-Jan-2020 17:59:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-11 Lab Sample ID: 180-101459-11  
Client ID: HD-QC1-0/1-1  
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
1.84	50.00	1437	0.401332
1.84	52.00	123	

Reviewer: bowieh, 28-Jan-2020 09:40:56

Audit Action: Marked Compound Undetected

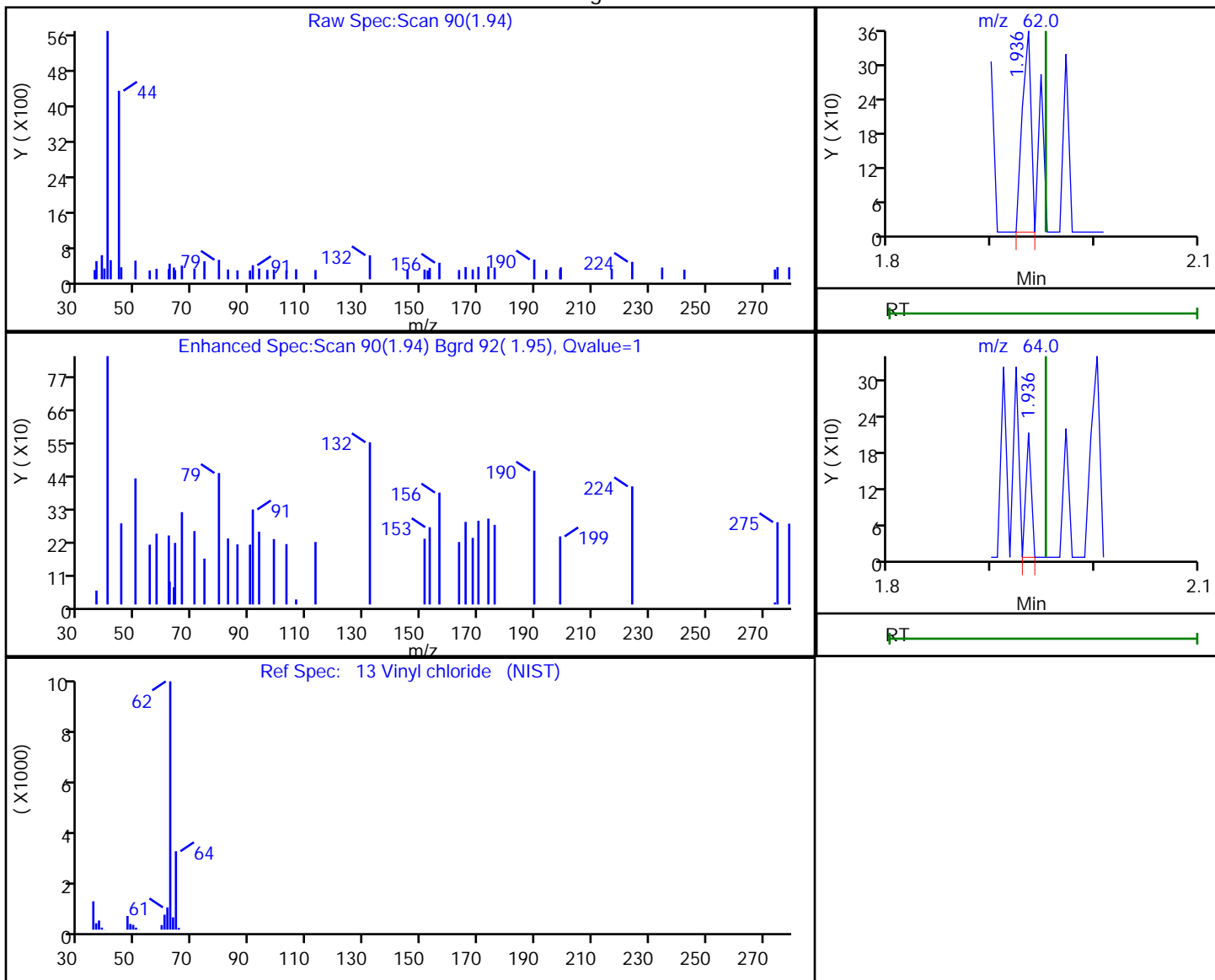
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012517.D  
 Injection Date: 25-Jan-2020 17:59:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-11 Lab Sample ID: 180-101459-11  
 Client ID: HD-QC1-0/1-1  
 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

Processing Results



RT	Mass	Response	Amount
1.94	62.00	211	0.068479
1.94	64.00	76	

Reviewer: bowieh, 28-Jan-2020 09:40:58

Audit Action: Marked Compound Undetected

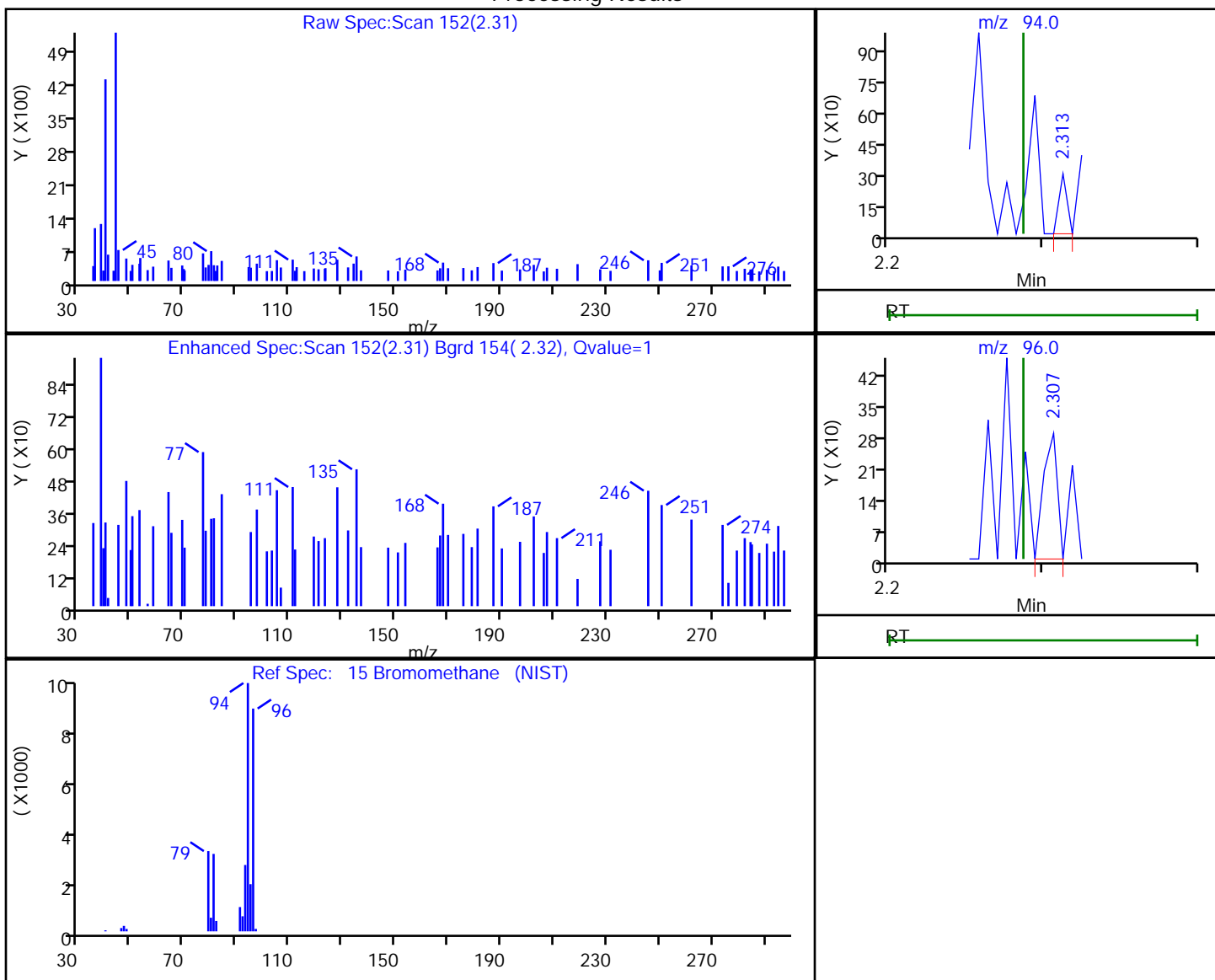
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012517.D  
 Injection Date: 25-Jan-2020 17:59:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-11 Lab Sample ID: 180-101459-11  
 Client ID: HD-QC1-0/1-1  
 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

15 Bromomethane, CAS: 74-83-9

Processing Results



RT	Mass	Response	Amount
2.31	94.00	107	0.054430
2.31	96.00	177	

Reviewer: bowieh, 28-Jan-2020 09:40:58

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

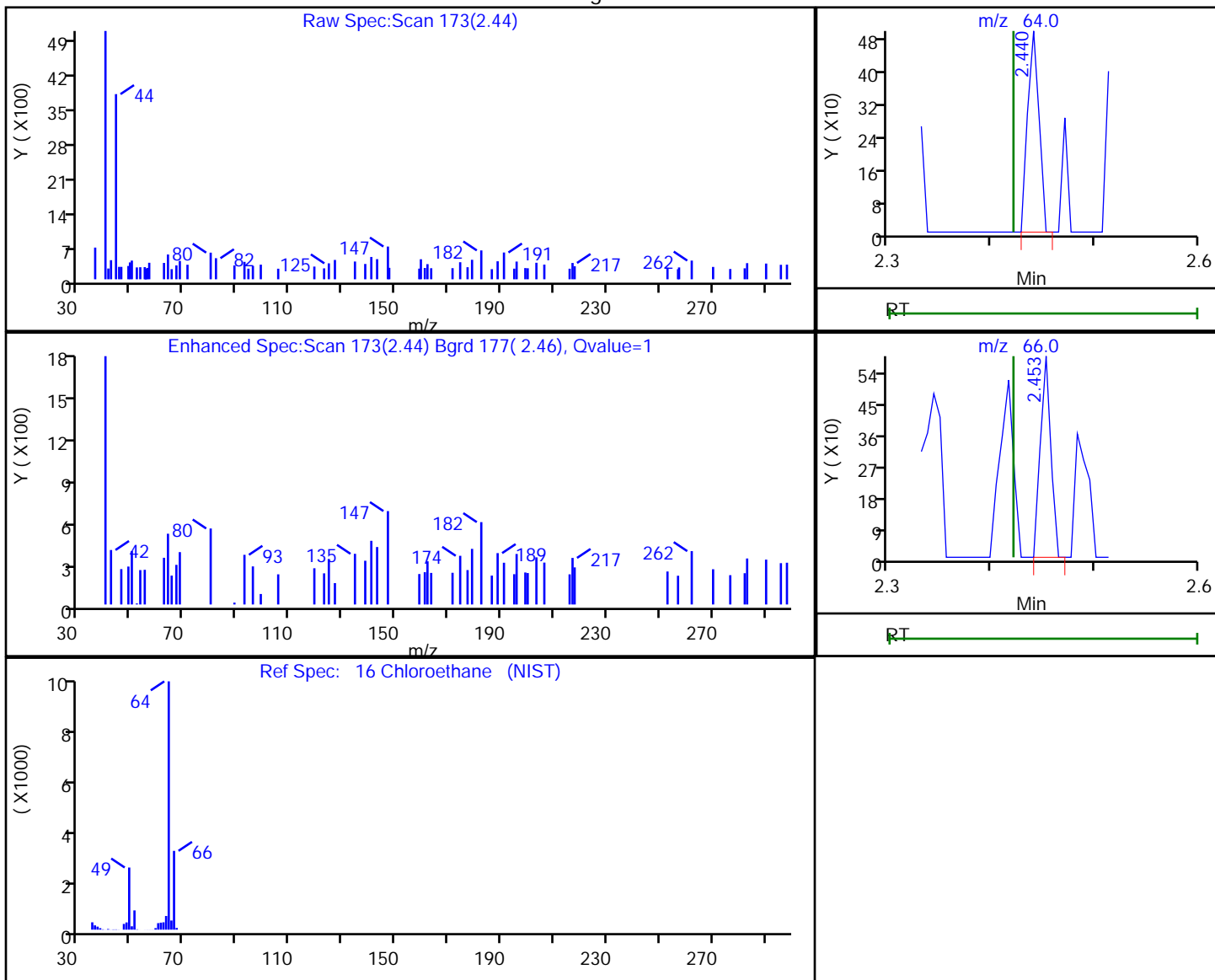


Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012517.D  
 Injection Date: 25-Jan-2020 17:59:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-11 Lab Sample ID: 180-101459-11  
 Client ID: HD-QC1-0/1-1  
 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

Processing Results



RT	Mass	Response	Amount
2.44	64.00	384	0.171121
2.45	66.00	416	

Reviewer: bowieh, 28-Jan-2020 09:41:00

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

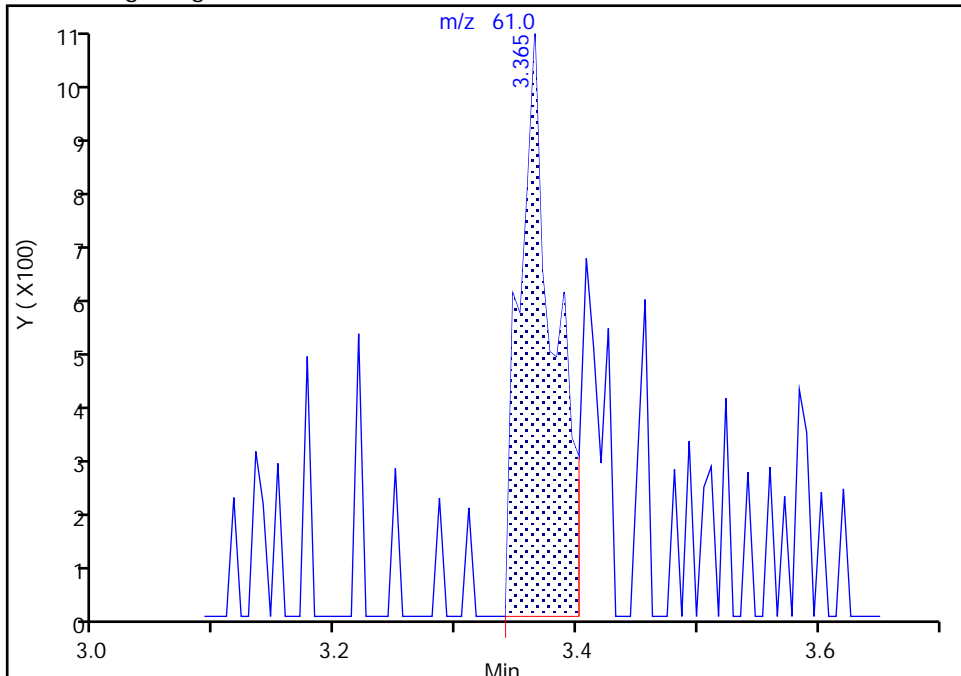
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Injection Date: 25-Jan-2020 17:59:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-11 Lab Sample ID: 180-101459-11  
Client ID: HD-QC1-0/1-1  
Operator ID: 433269 ALS Bottle#: 11 Worklist Smp#: 17  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: 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

Signal: 2

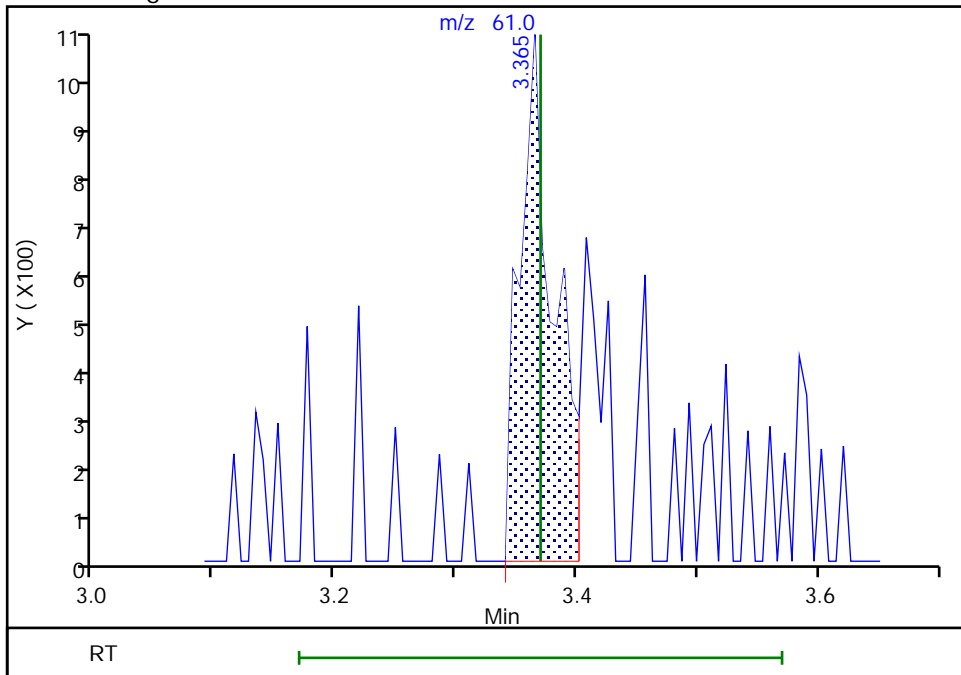
RT: 3.37  
Area: 2132  
Amount: 0.601798  
Amount Units: ng

Processing Integration Results



RT: 3.37  
Area: 2132  
Amount: 0.601798  
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 28-Jan-2020 09:41:01  
Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

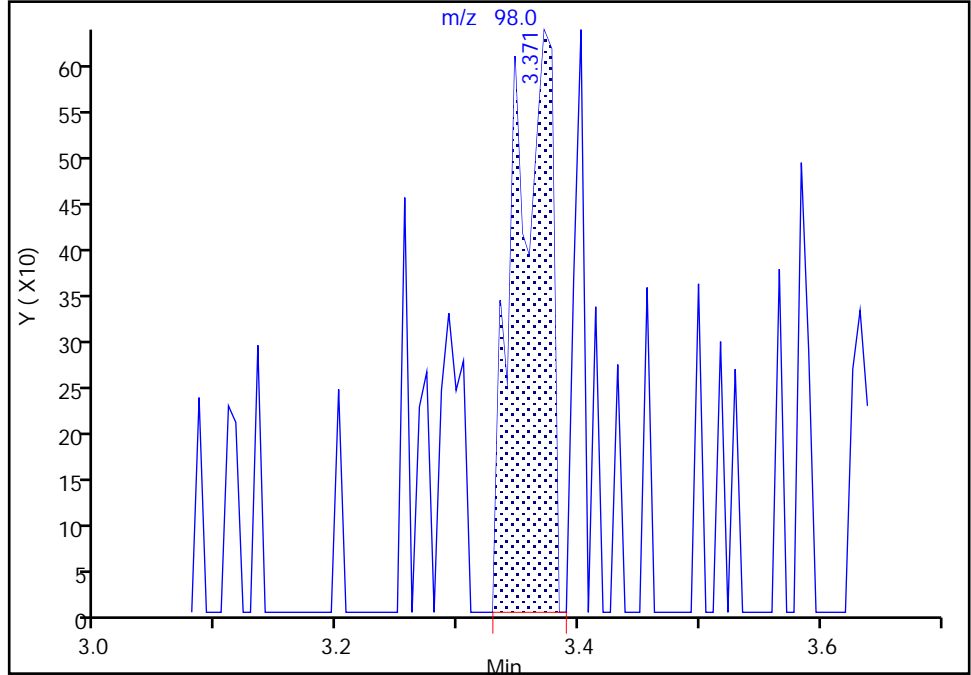
Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012517.D  
Injection Date: 25-Jan-2020 17:59:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-11 Lab Sample ID: 180-101459-11  
Client ID: HD-QC1-0/1-1  
Operator ID: 433269 ALS Bottle#: 11 Worklist Smp#: 17  
Purge Vol: 5.000 mL Dil. Factor: 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

Signal: 3

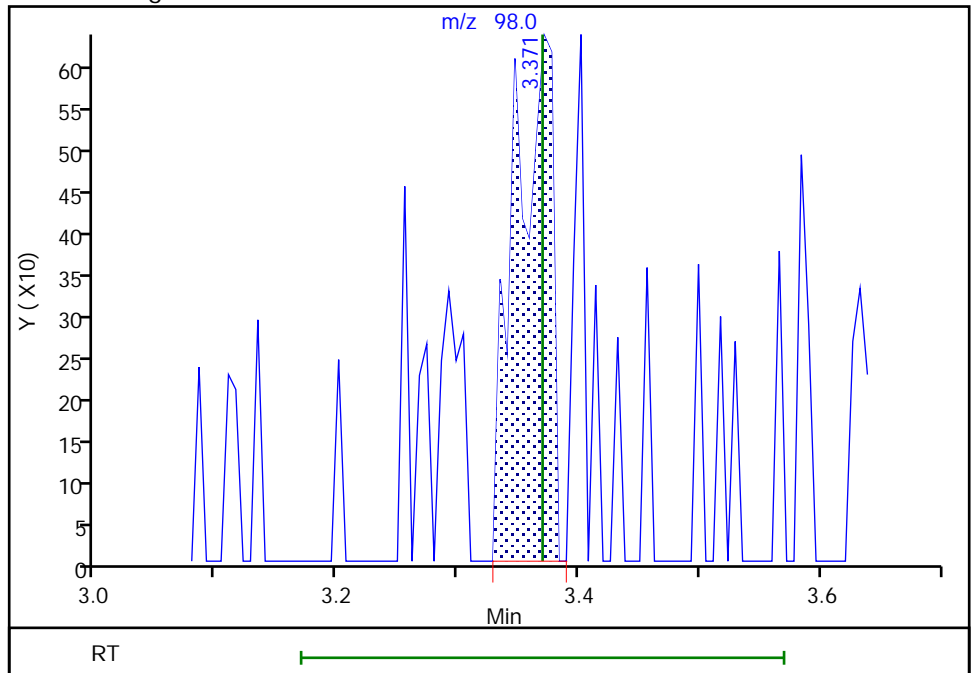
RT: 3.37  
Area: 1368  
Amount: 0.601798  
Amount Units: ng

Processing Integration Results



RT: 3.37  
Area: 1368  
Amount: 0.601798  
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 28-Jan-2020 09:41:01  
Audit Action: Marked Compound Undetected

Euofins TestAmerica, Pittsburgh

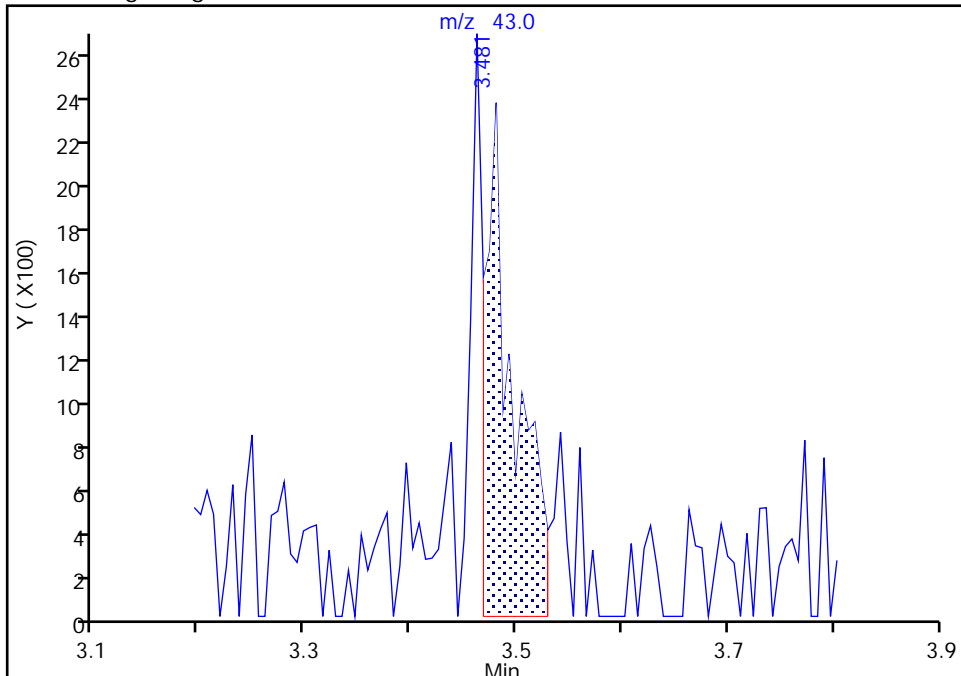
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Injection Date: 25-Jan-2020 17:59:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-11 Lab Sample ID: 180-101459-11  
Client ID: HD-QC1-0/1-1  
Operator ID: 433269 ALS Bottle#: 11 Worklist Smp#: 17  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: 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

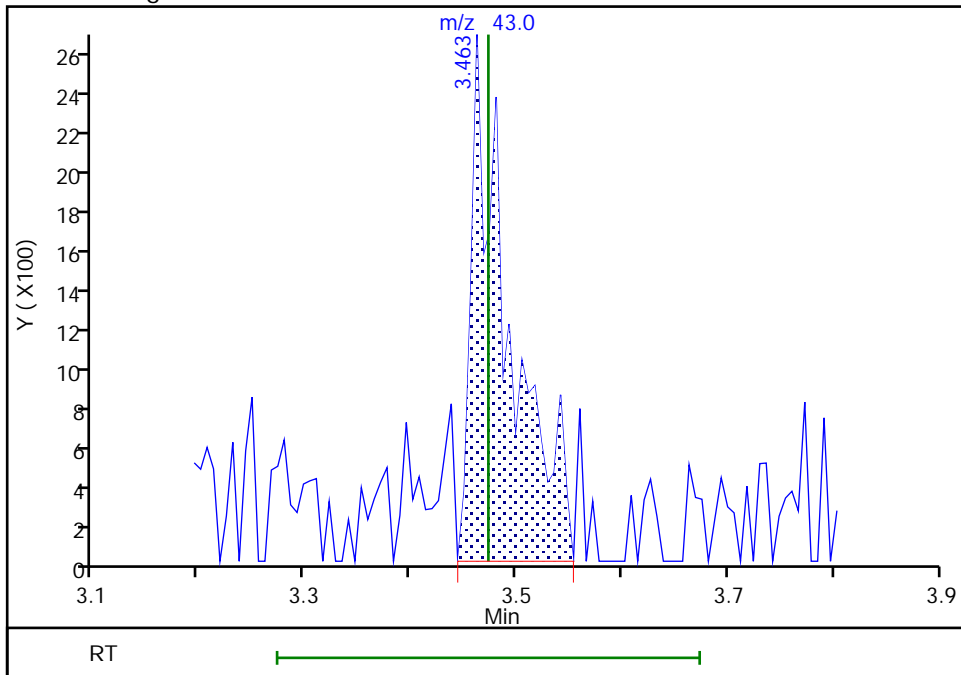
RT: 3.48  
Area: 4343  
Amount: 3.787202  
Amount Units: ng

Processing Integration Results



RT: 3.46  
Area: 6509  
Amount: 5.676007  
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 28-Jan-2020 09:41:12  
Audit Action: Manually Integrated

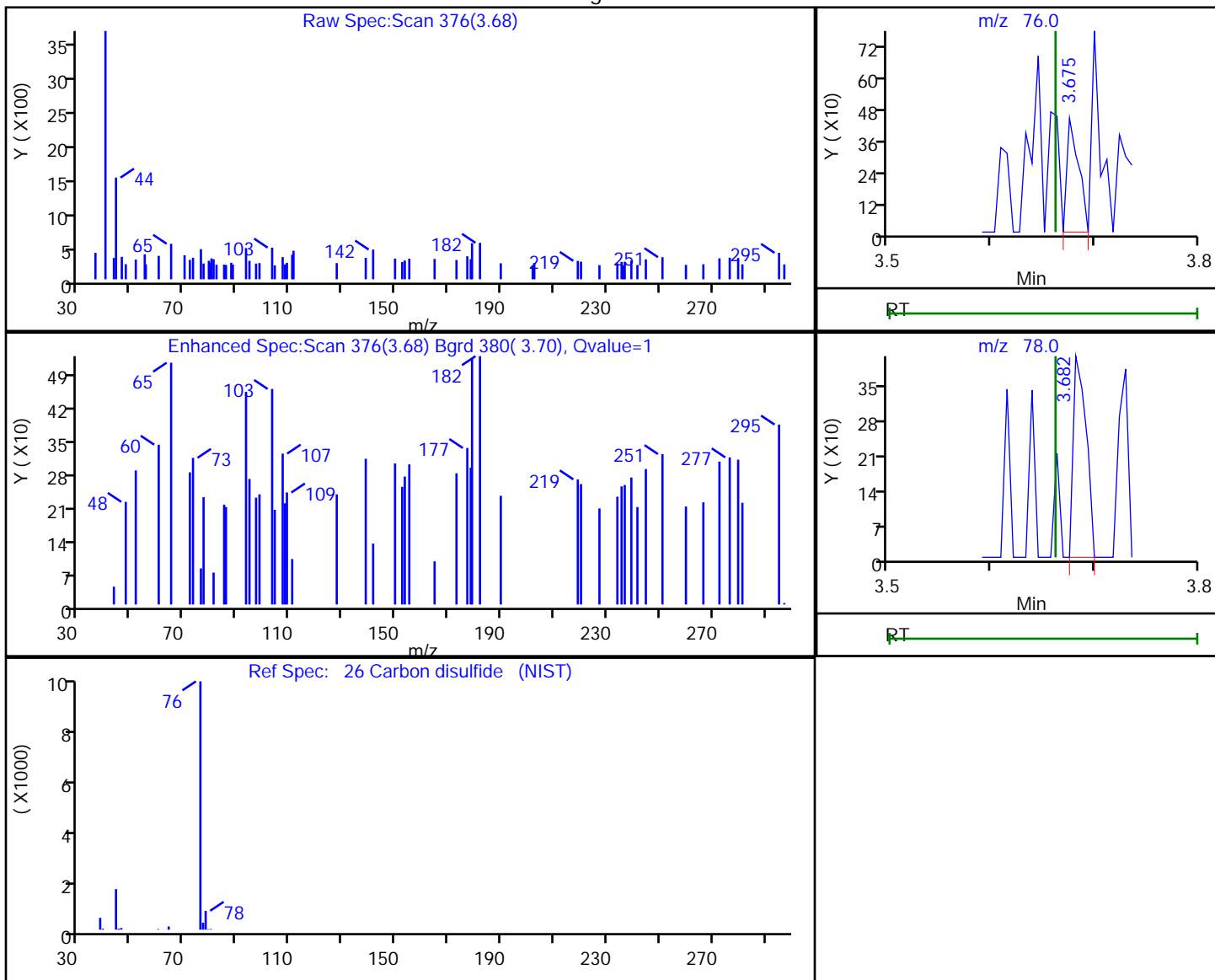
Audit Reason: Poor chromatography  
Page 552 of 880

Eurofins TestAmerica, Pittsburgh

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Injection Date: 25-Jan-2020 17:59:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-11 Lab Sample ID: 180-101459-11  
Client ID: HD-QC1-0/1-1  
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
3.68	76.00	345	0.068162
3.68	78.00	355	

Reviewer: bowieh, 28-Jan-2020 09:41:13

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

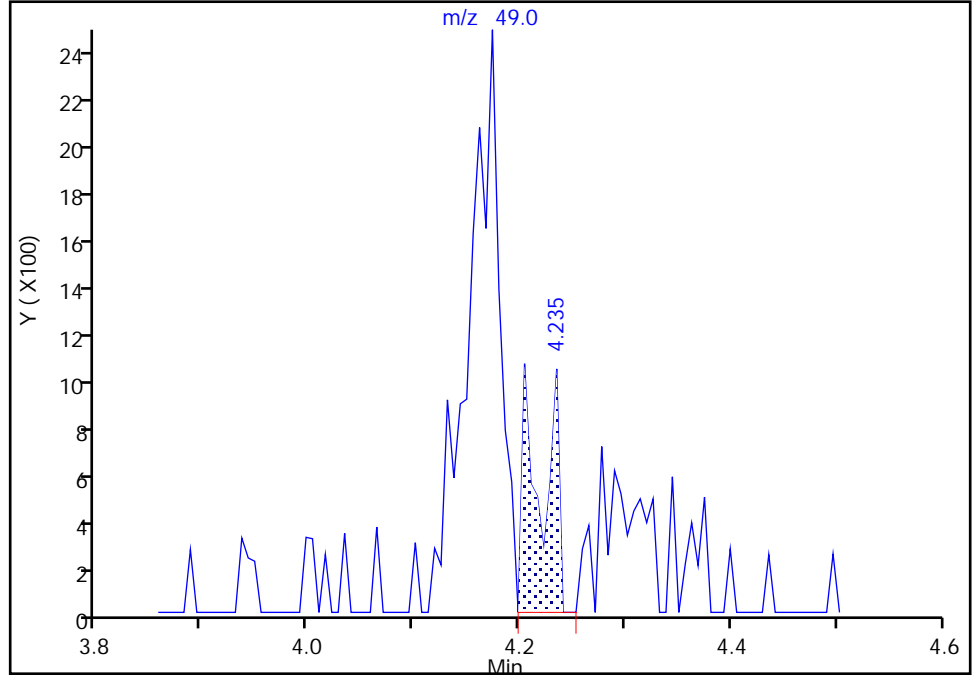
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Injection Date: 25-Jan-2020 17:59:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-11 Lab Sample ID: 180-101459-11  
Client ID: HD-QC1-0/1-1  
Operator ID: 433269 ALS Bottle#: 11 Worklist Smp#: 17  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
Column: DB-624 (0.18 mm) Detector: MS SCAN

31 Methylene Chloride, CAS: 75-09-2

Signal: 2

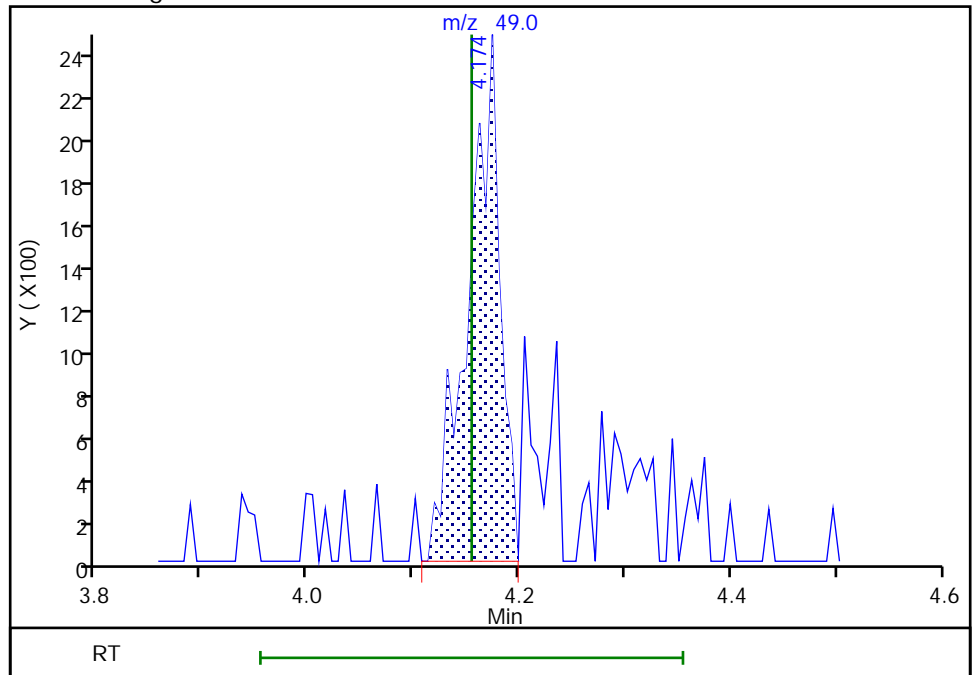
RT: 4.24  
Area: 1447  
Amount: -6.695051  
Amount Units: ng

Processing Integration Results



RT: 4.17  
Area: 5208  
Amount: -5.457619  
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 28-Jan-2020 09:41:14

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Euofins TestAmerica, Pittsburgh

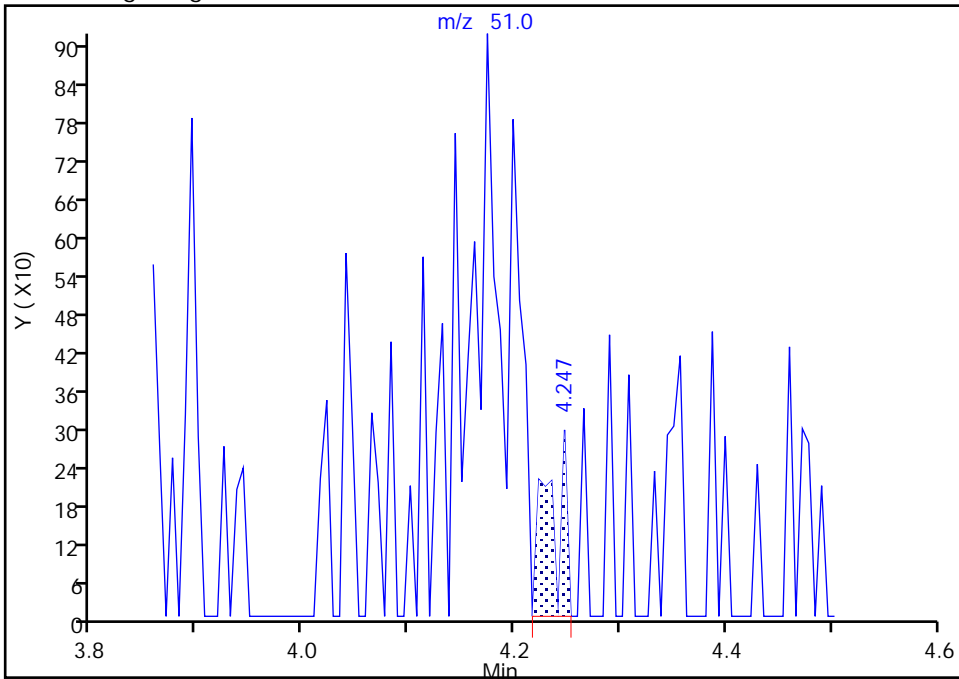
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Injection Date: 25-Jan-2020 17:59:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-11 Lab Sample ID: 180-101459-11  
Client ID: HD-QC1-0/1-1  
Operator ID: 433269 ALS Bottle#: 11 Worklist Smp#: 17  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
Column: DB-624 (0.18 mm) Detector: MS SCAN

31 Methylene Chloride, CAS: 75-09-2

Signal: 3

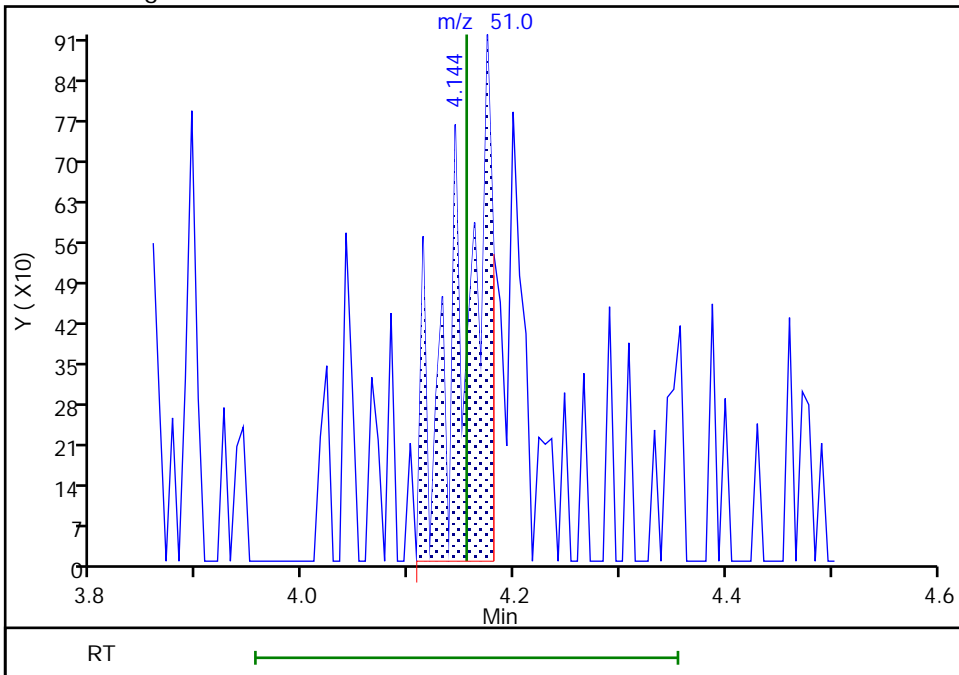
RT: 4.25  
Area: 339  
Amount: -6.695051  
Amount Units: ng

Processing Integration Results



RT: 4.14  
Area: 1852  
Amount: -5.457619  
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 28-Jan-2020 09:41:14  
Audit Action: Marked Compound Undetected

Eurofins TestAmerica, Pittsburgh

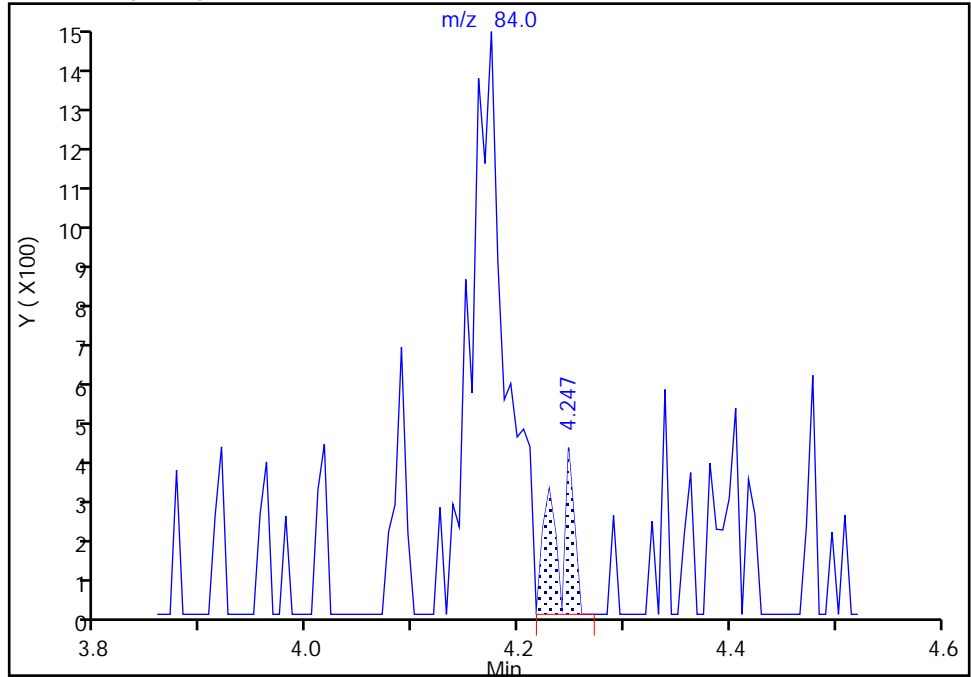
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Injection Date: 25-Jan-2020 17:59:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-11 Lab Sample ID: 180-101459-11  
Client ID: HD-QC1-0/1-1  
Operator ID: 433269 ALS Bottle#: 11 Worklist Smp#: 17  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
Column: DB-624 (0.18 mm) Detector: MS SCAN

31 Methylene Chloride, CAS: 75-09-2

Signal: 1

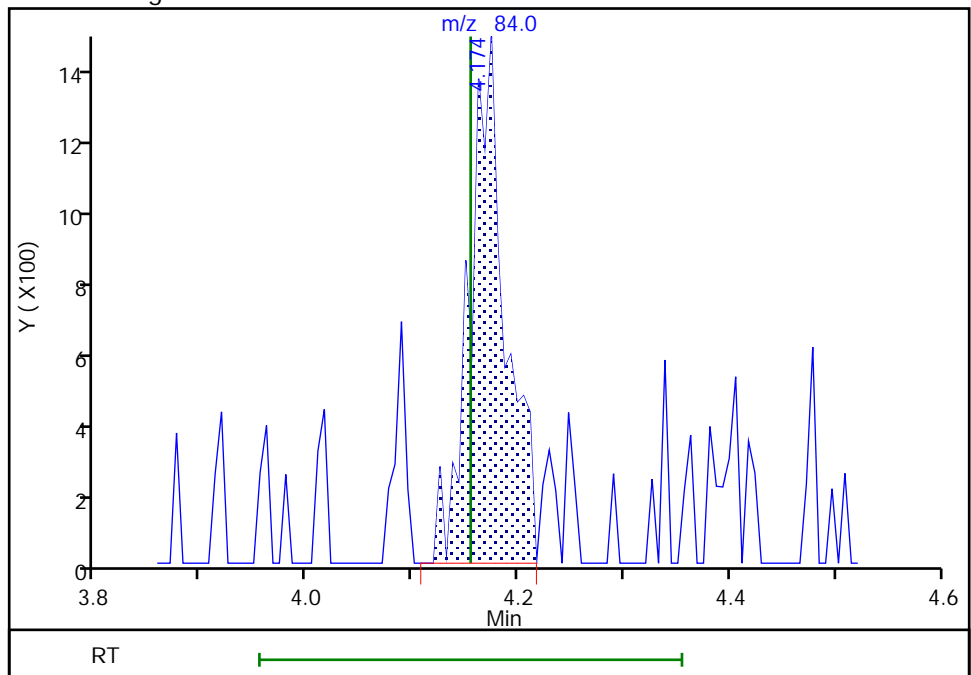
RT: 4.25  
Area: 502  
Amount: -6.695051  
Amount Units: ng

Processing Integration Results



RT: 4.17  
Area: 3465  
Amount: -5.457619  
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 28-Jan-2020 09:41:17

Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

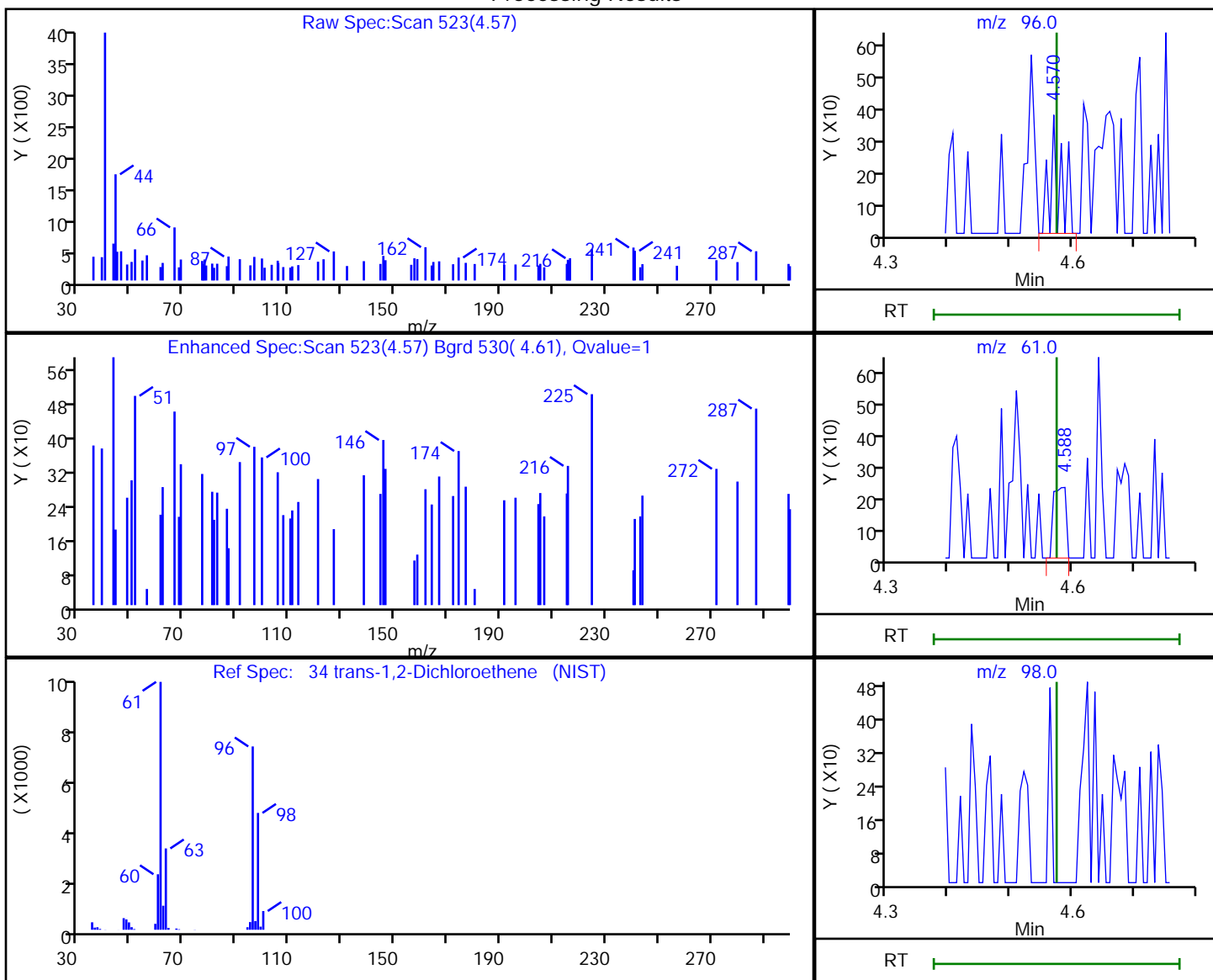


Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012517.D  
 Injection Date: 25-Jan-2020 17:59:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-11 Lab Sample ID: 180-101459-11  
 Client ID: HD-QC1-0/1-1  
 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
4.57	96.00	430	0.168122
4.59	61.00	321	
4.57	98.00	0	

Reviewer: bowieh, 28-Jan-2020 09:41:20

Audit Action: Marked Compound Undetected

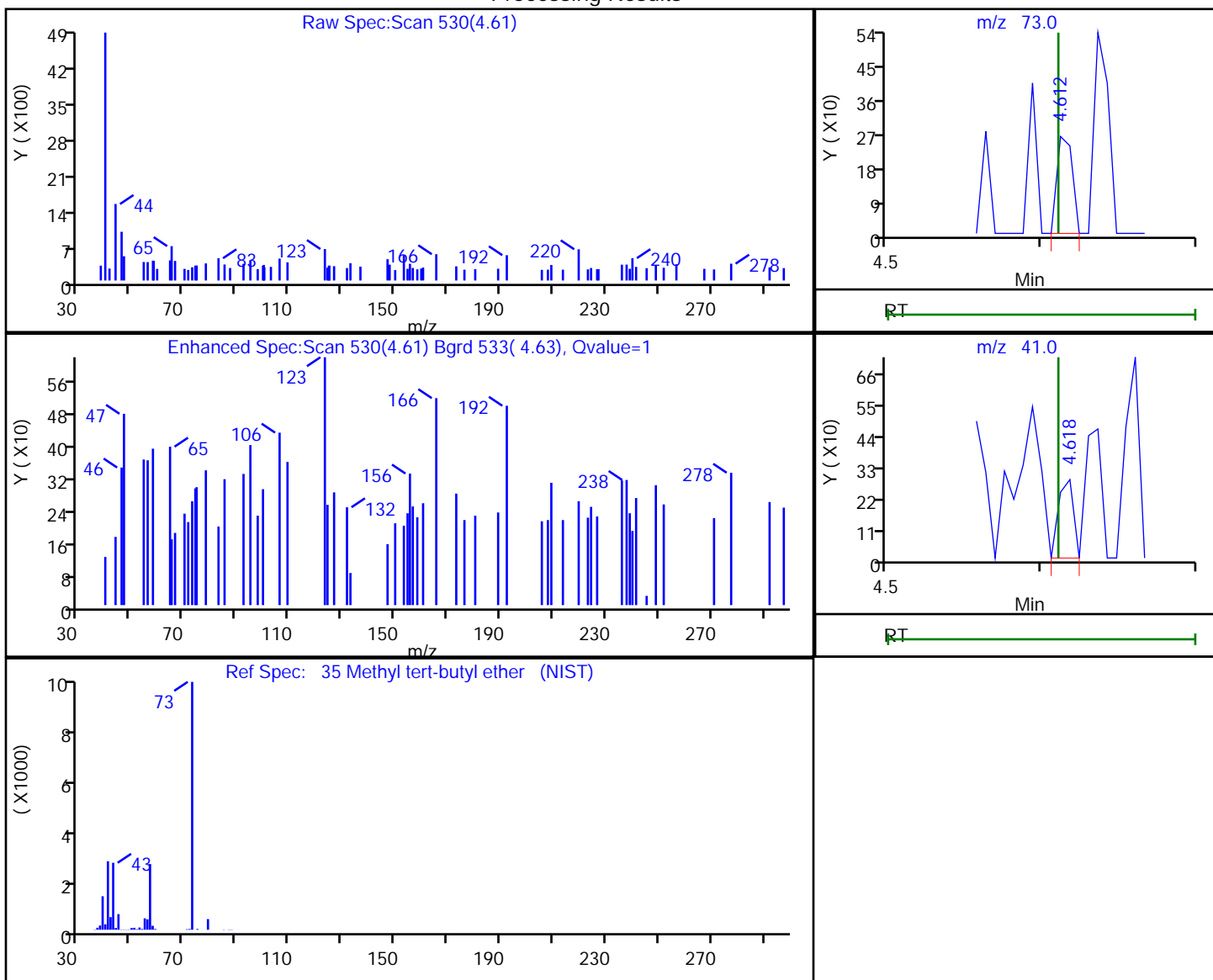
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012517.D  
 Injection Date: 25-Jan-2020 17:59:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-11 Lab Sample ID: 180-101459-11  
 Client ID: HD-QC1-0/1-1  
 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

Processing Results



RT	Mass	Response	Amount
4.61	73.00	180	0.036328
4.62	41.00	187	

Reviewer: bowieh, 28-Jan-2020 09:41:21

Audit Action: Marked Compound Undetected

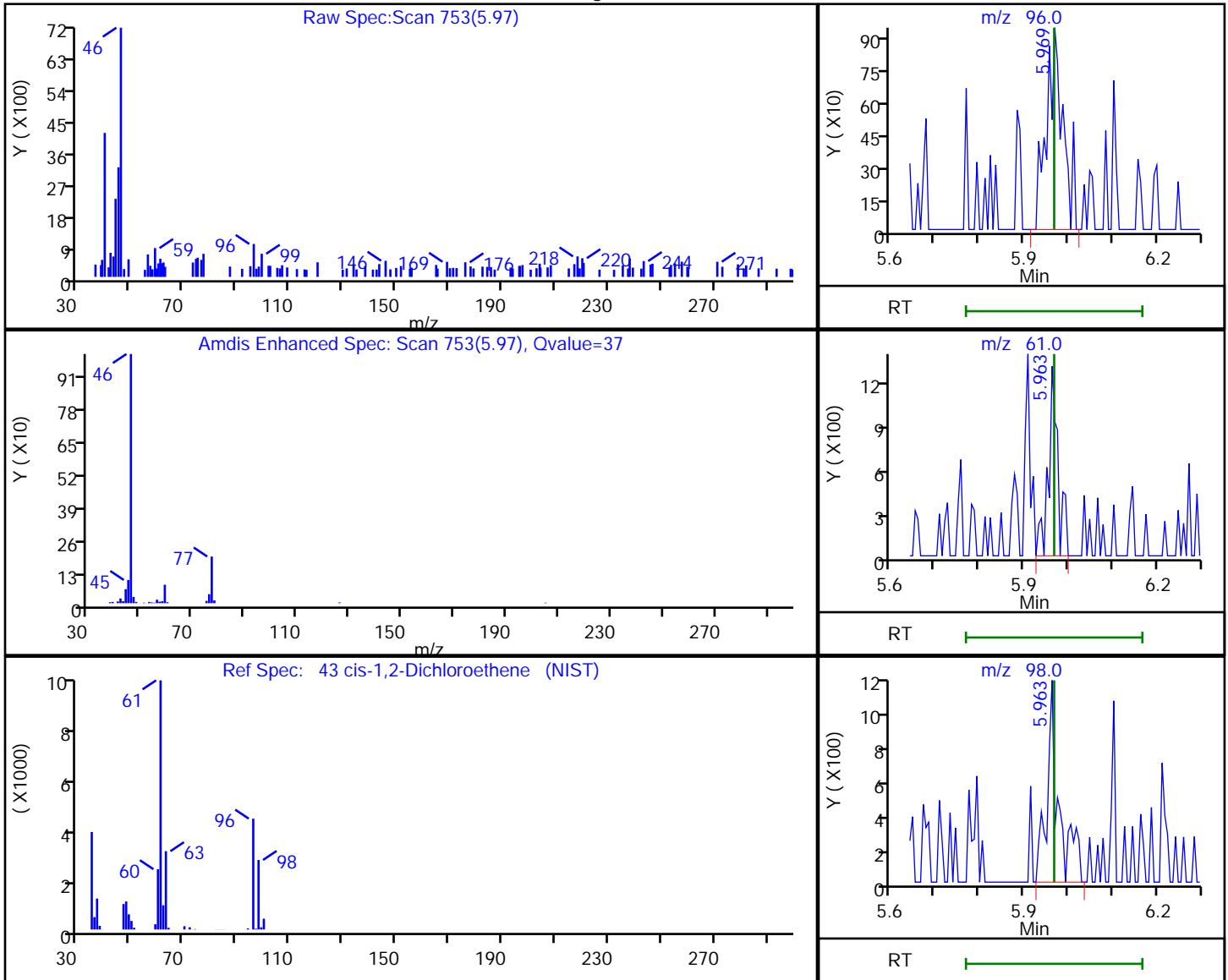
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012517.D  
 Injection Date: 25-Jan-2020 17:59:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-11 Lab Sample ID: 180-101459-11  
 Client ID: HD-QC1-0/1-1  
 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

Processing Results



RT	Mass	Response	Amount
5.97	96.00	2457	0.892194
5.96	61.00	1952	
5.96	98.00	2102	

Reviewer: bowieh, 28-Jan-2020 09:41:23

Audit Action: Marked Compound Undetected

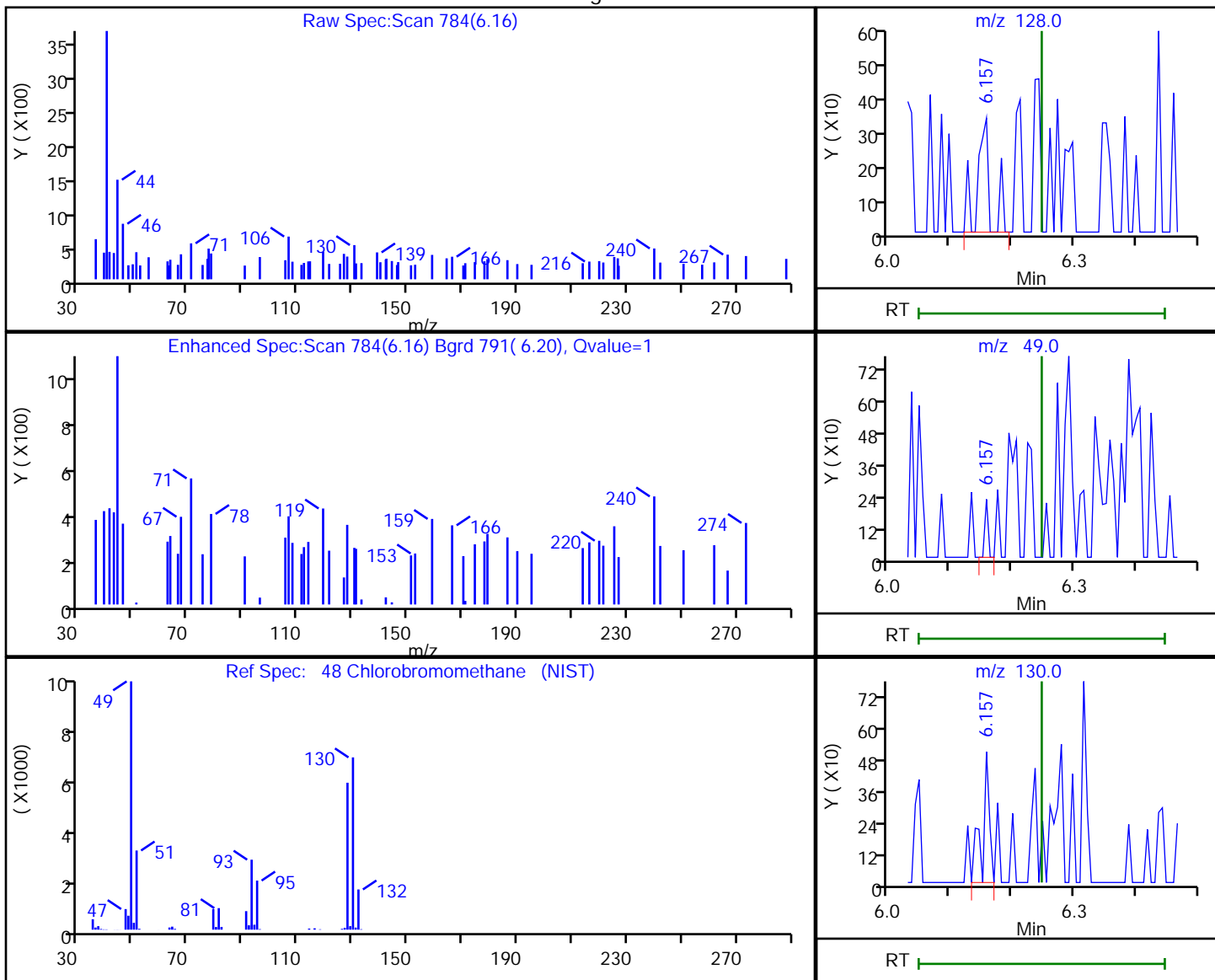
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Injection Date: 25-Jan-2020 17:59:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-11 Lab Sample ID: 180-101459-11  
 Client ID: HD-QC1-0/1-1  
 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

48 Chlorobromomethane, CAS: 74-97-5

Processing Results



RT	Mass	Response	Amount
6.16	128.00	464	0.327447
6.16	49.00	81	
6.16	130.00	411	

Reviewer: bowieh, 28-Jan-2020 09:41:25

Audit Action: Marked Compound Undetected

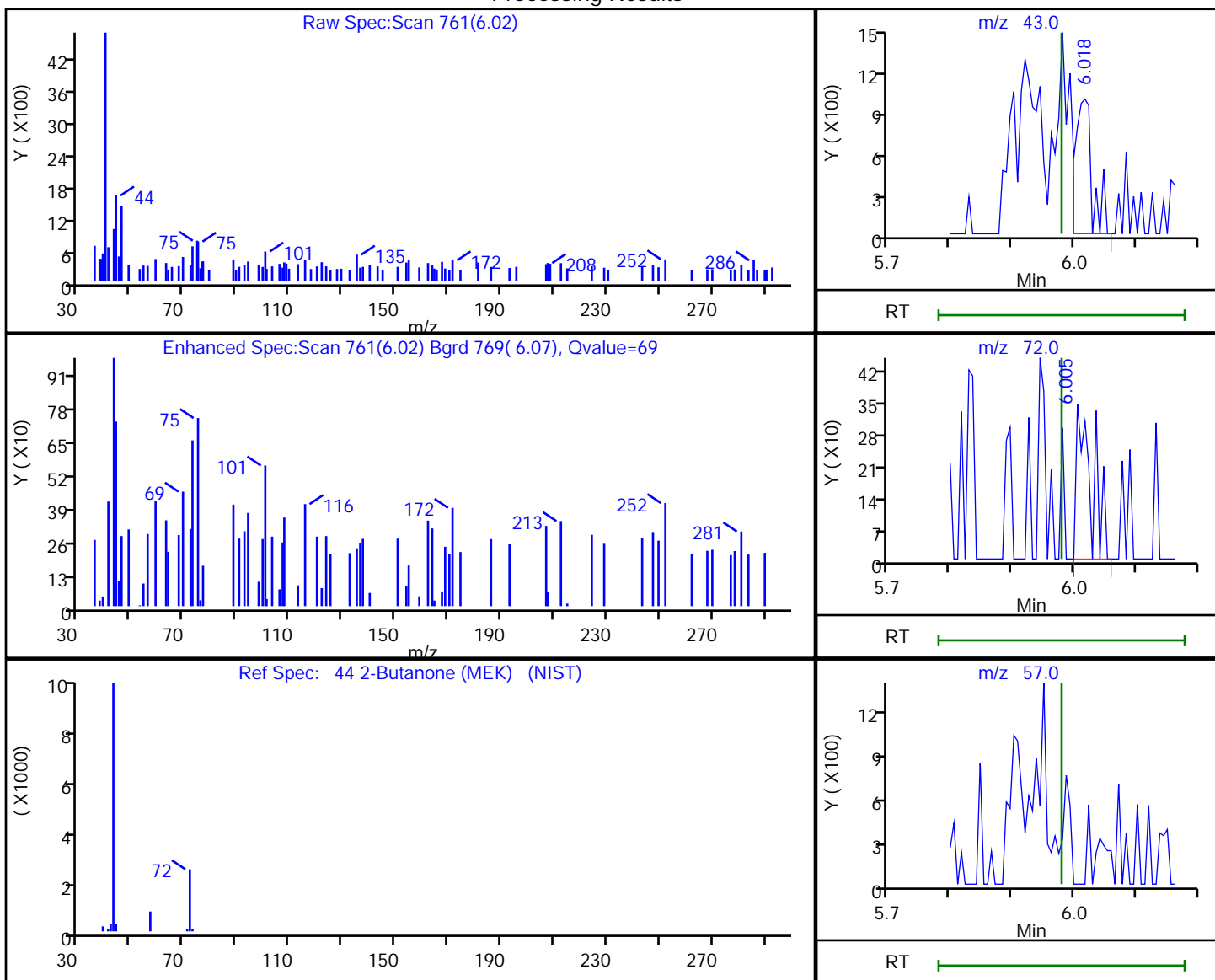
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012517.D  
 Injection Date: 25-Jan-2020 17:59:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-11 Lab Sample ID: 180-101459-11  
 Client ID: HD-QC1-0/1-1  
 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

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

Processing Results



RT	Mass	Response	Amount
6.02	43.00	1822	1.263132
6.01	72.00	593	
5.98	57.00	0	

Reviewer: bowieh, 28-Jan-2020 09:41:24

Audit Action: Marked Compound Undetected

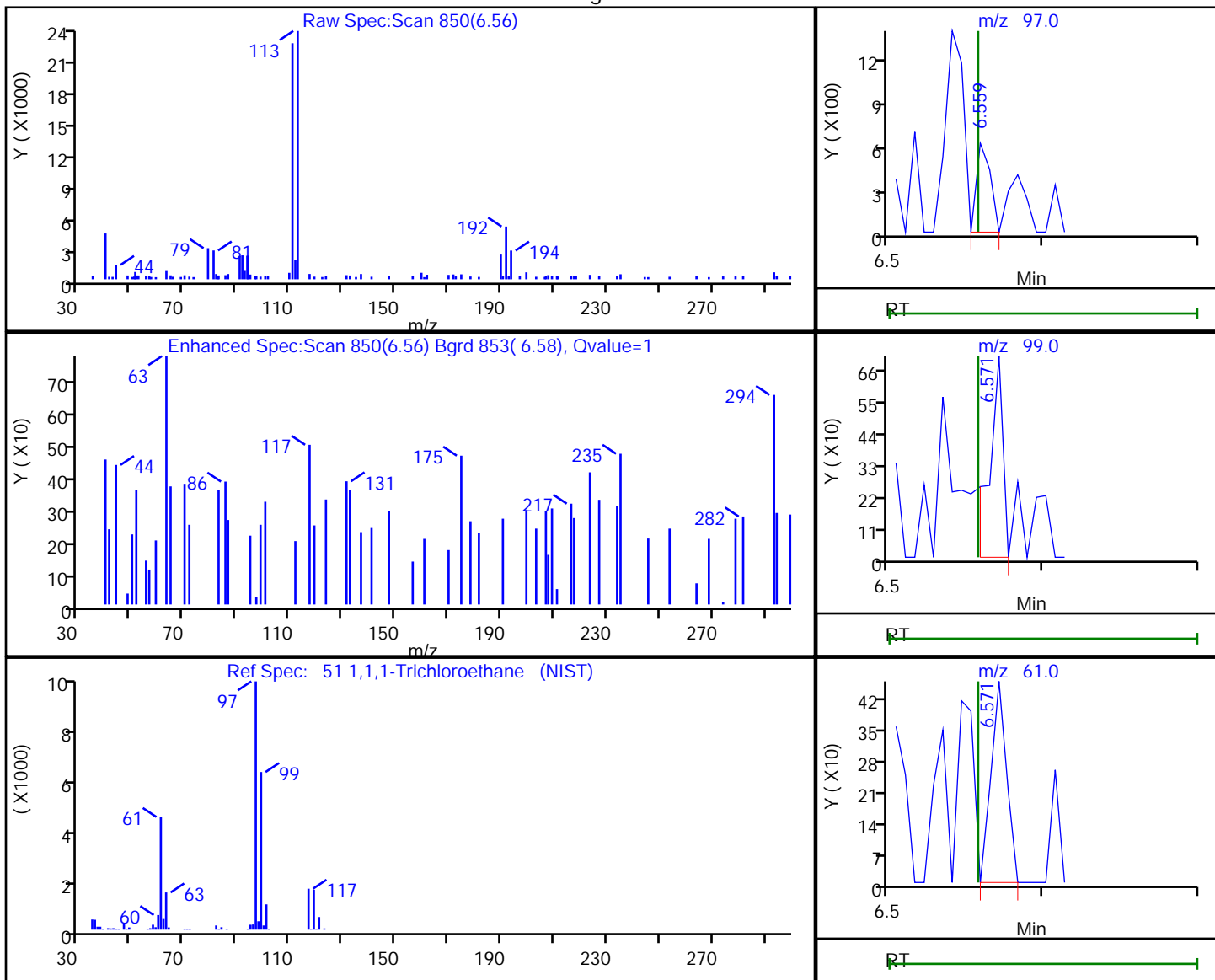
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012517.D  
 Injection Date: 25-Jan-2020 17:59:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-11 Lab Sample ID: 180-101459-11  
 Client ID: HD-QC1-0/1-1  
 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
6.56	97.00	358	0.112934
6.57	99.00	442	
6.57	61.00	318	

Reviewer: bowieh, 28-Jan-2020 09:41:28

Audit Action: Marked Compound Undetected

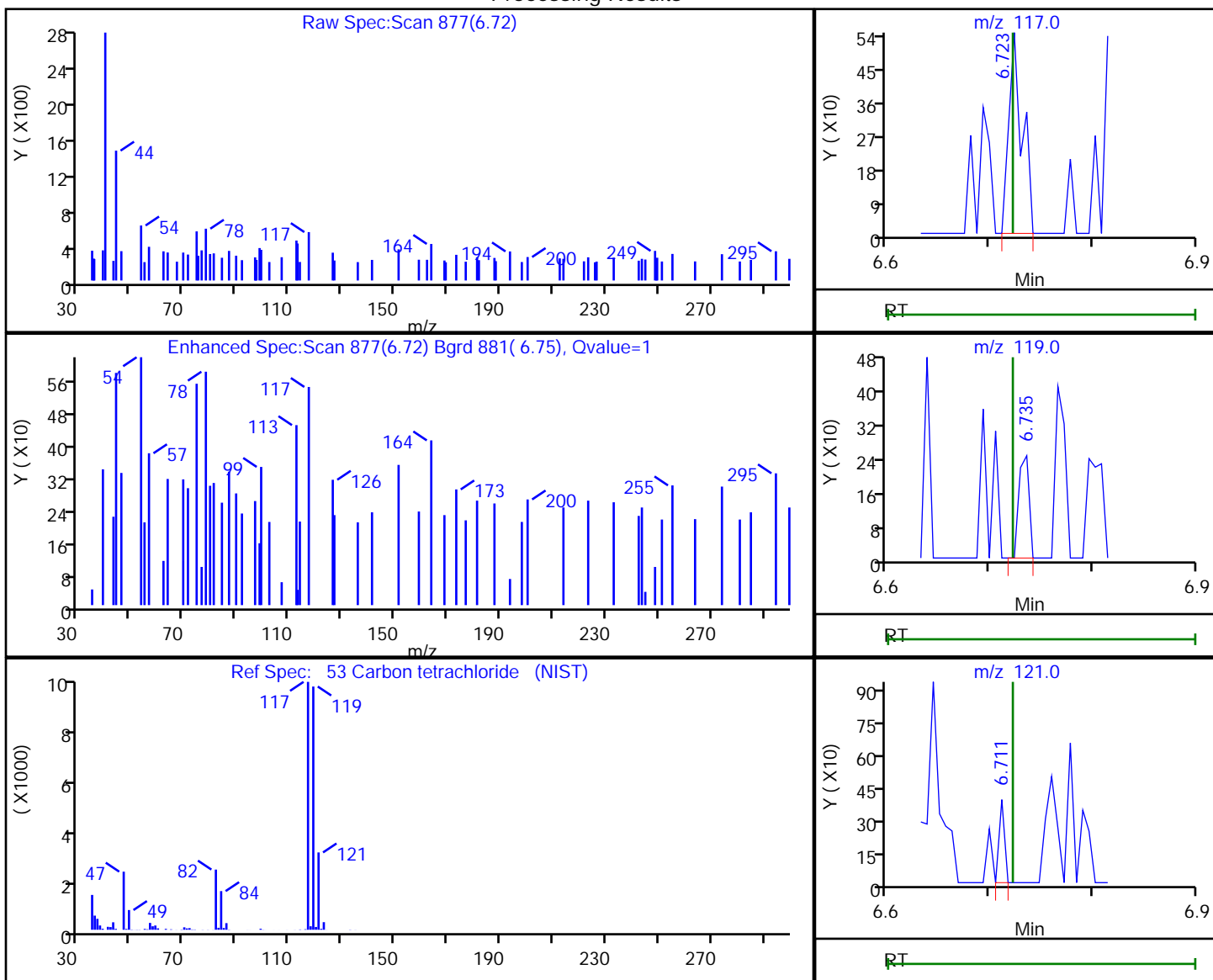
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012517.D  
 Injection Date: 25-Jan-2020 17:59:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-11 Lab Sample ID: 180-101459-11  
 Client ID: HD-QC1-0/1-1  
 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

53 Carbon tetrachloride, CAS: 56-23-5

Processing Results



RT	Mass	Response	Amount
6.72	117.00	494	0.185297
6.74	119.00	166	
6.71	121.00	141	

Reviewer: bowieh, 28-Jan-2020 09:41:29

Audit Action: Marked Compound Undetected

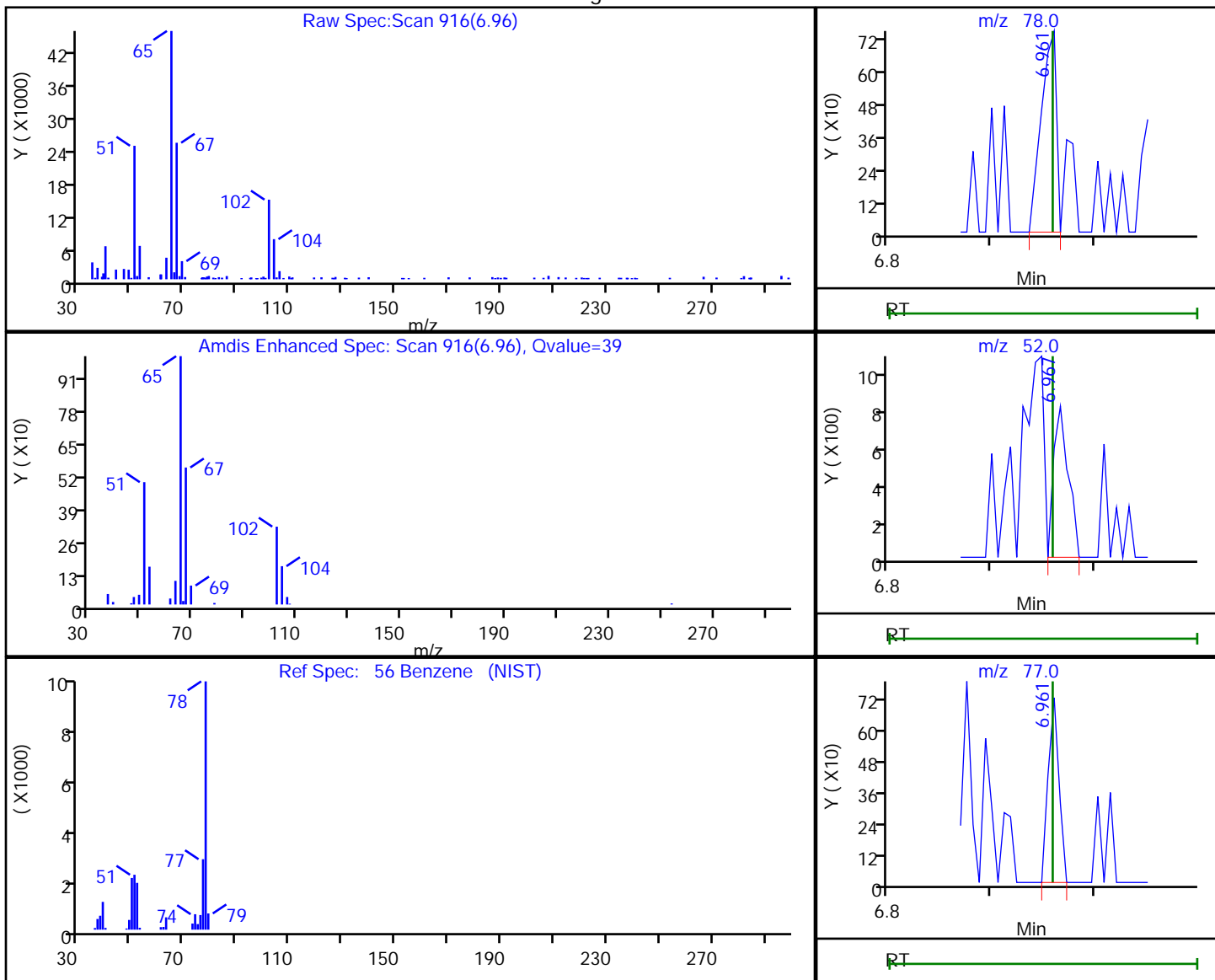
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012517.D  
 Injection Date: 25-Jan-2020 17:59:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-11 Lab Sample ID: 180-101459-11  
 Client ID: HD-QC1-0/1-1  
 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

Processing Results



RT	Mass	Response	Amount
6.96	78.00	761	0.074943
6.97	52.00	811	
6.96	77.00	531	

Reviewer: bowieh, 28-Jan-2020 09:41:30

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

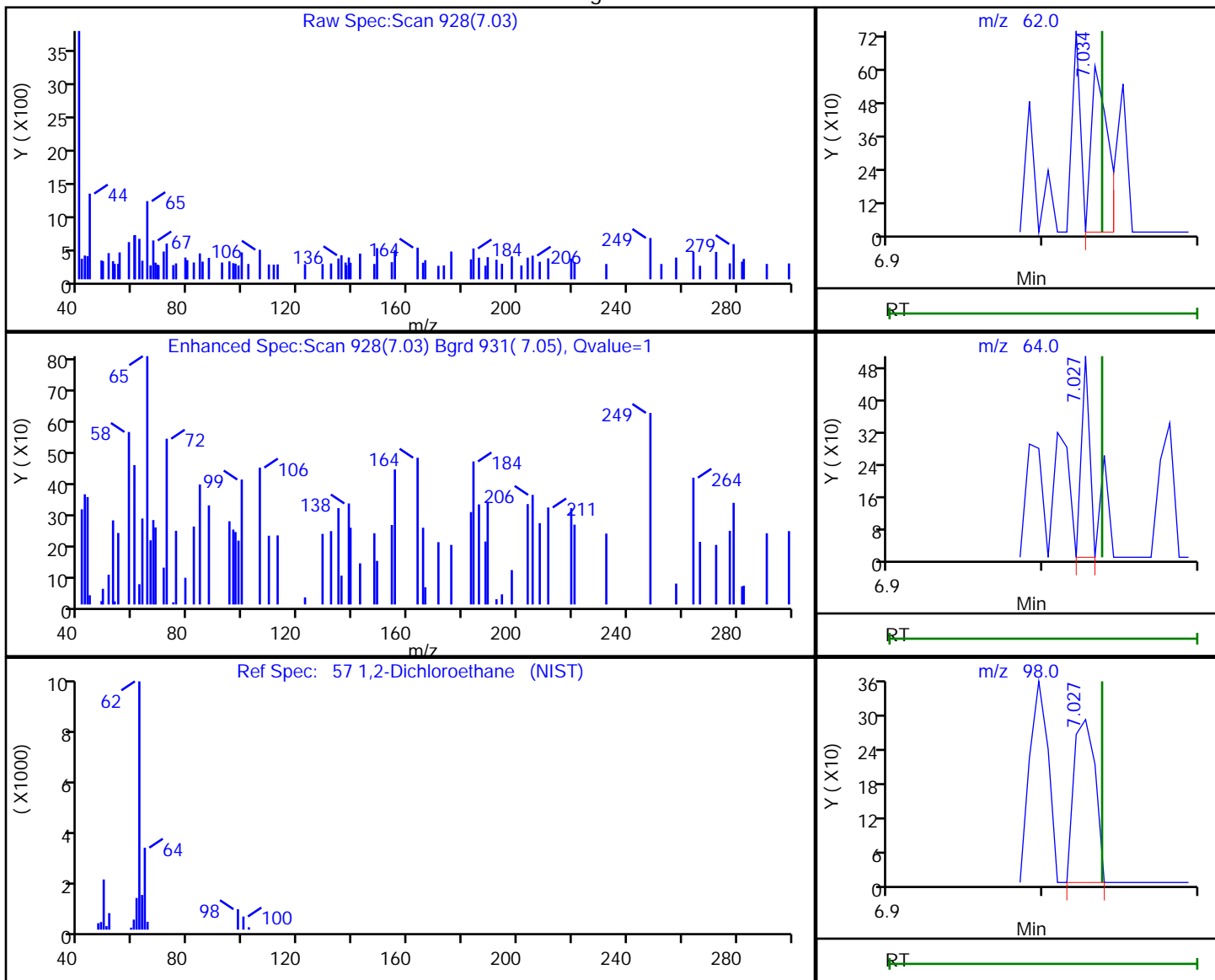


Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012517.D  
 Injection Date: 25-Jan-2020 17:59:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-11 Lab Sample ID: 180-101459-11  
 Client ID: HD-QC1-0/1-1  
 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

Processing Results



RT	Mass	Response	Amount
7.03	62.00	466	0.166623
7.03	64.00	185	
7.03	98.00	275	

Reviewer: bowieh, 28-Jan-2020 09:41:31

Audit Action: Marked Compound Undetected

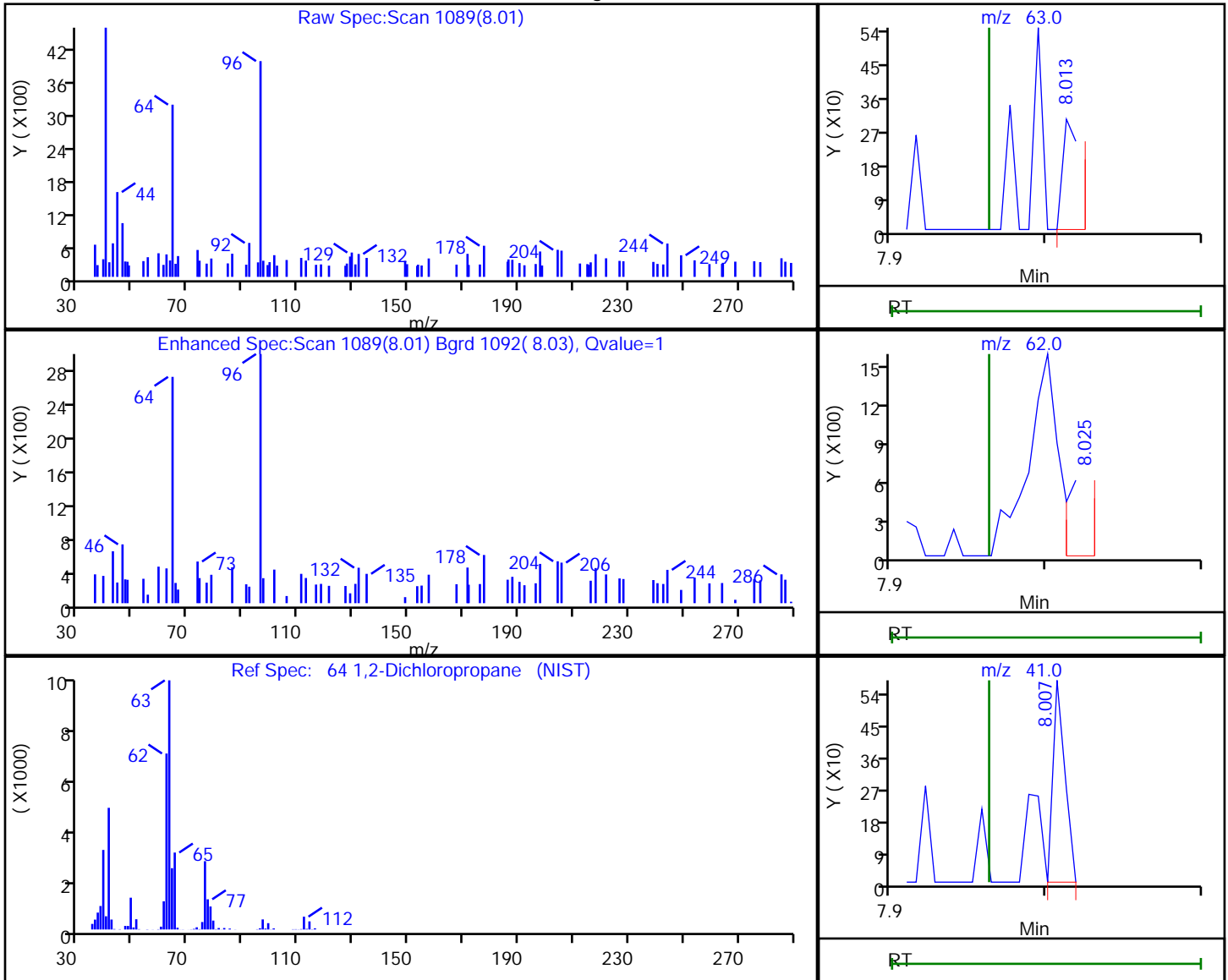
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012517.D  
 Injection Date: 25-Jan-2020 17:59:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-11 Lab Sample ID: 180-101459-11  
 Client ID: HD-QC1-0/1-1  
 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
8.01	63.00	196	0.082456
8.03	62.00	596	
8.01	41.00	308	

Reviewer: bowieh, 28-Jan-2020 09:41:33

Audit Action: Marked Compound Undetected

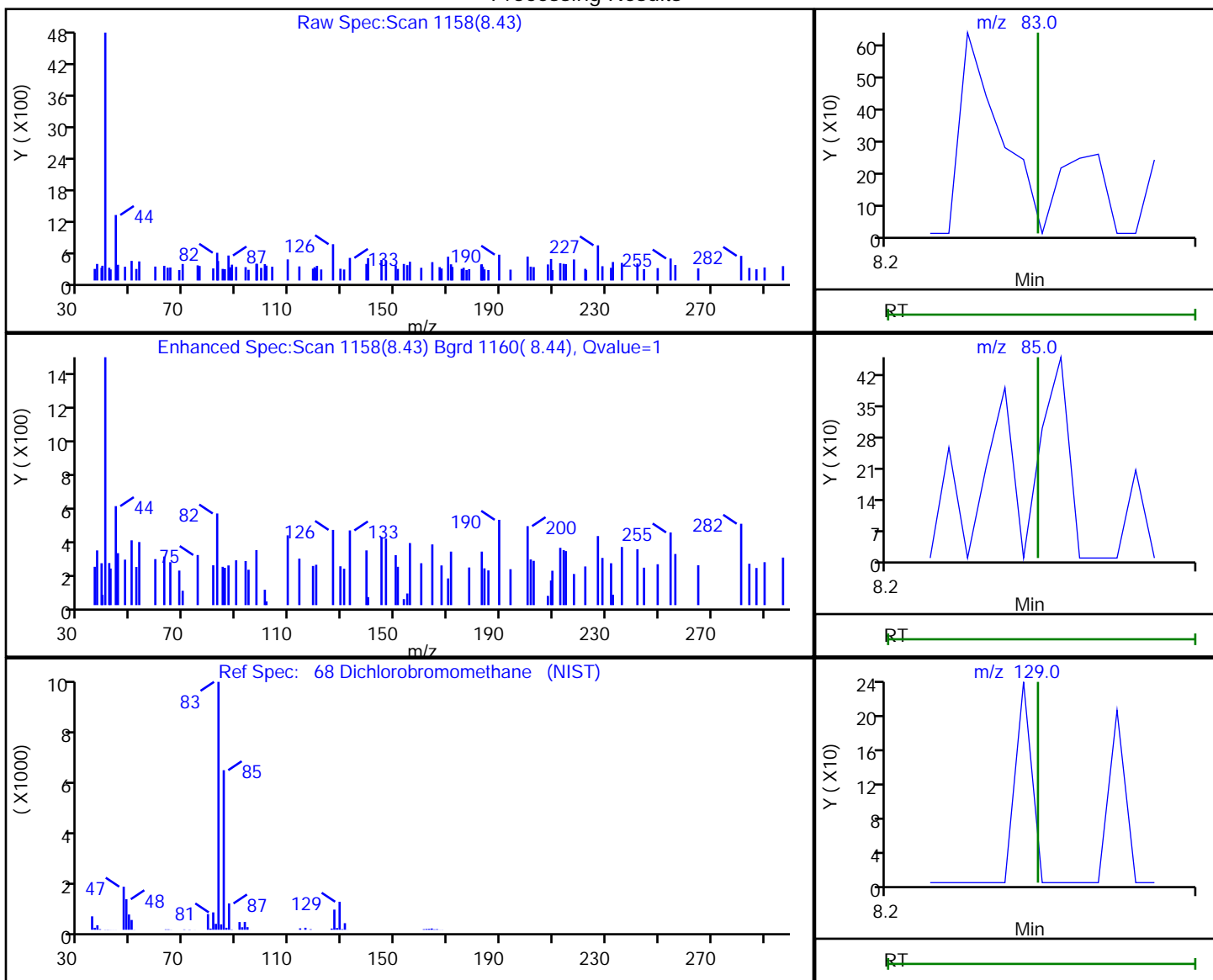
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Injection Date: 25-Jan-2020 17:59:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-11 Lab Sample ID: 180-101459-11  
 Client ID: HD-QC1-0/1-1  
 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

68 Dichlorobromomethane, CAS: 75-27-4

Processing Results



RT	Mass	Response	Amount
8.43	83.00	138	0.062108
8.43	85.00	178	
8.43	129.00	158	

Reviewer: bowieh, 28-Jan-2020 09:41:34

Audit Action: Marked Compound Undetected

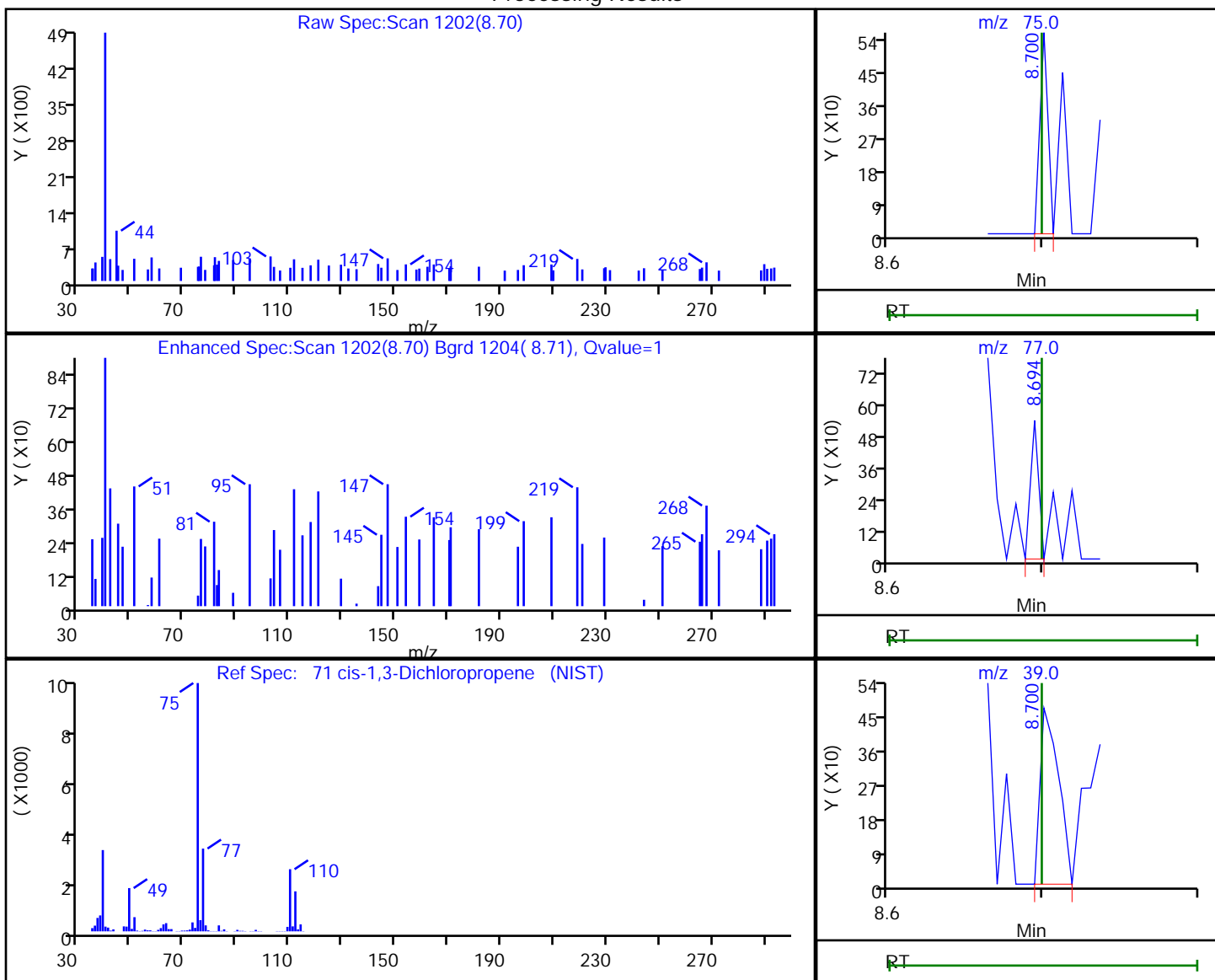
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012517.D  
 Injection Date: 25-Jan-2020 17:59:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-11 Lab Sample ID: 180-101459-11  
 Client ID: HD-QC1-0/1-1  
 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
8.70	75.00	203	0.070649
8.69	77.00	195	
8.70	39.00	388	

Reviewer: bowieh, 28-Jan-2020 09:41:35

Audit Action: Marked Compound Undetected

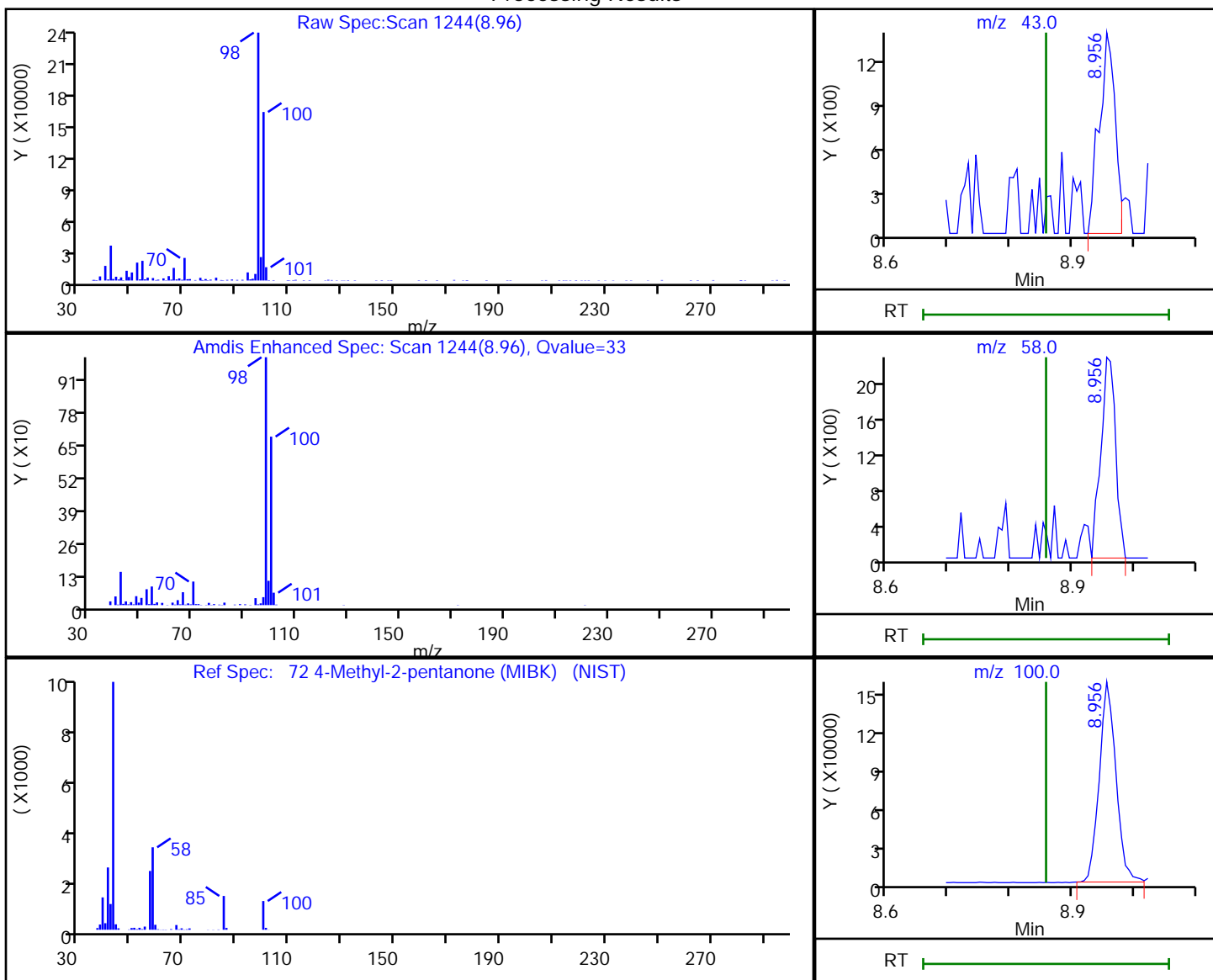
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012517.D  
 Injection Date: 25-Jan-2020 17:59:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-11 Lab Sample ID: 180-101459-11  
 Client ID: HD-QC1-0/1-1  
 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
8.96	43.00	2523	1.238342
8.96	58.00	3768	
8.96	100.00	295585	

Reviewer: bowieh, 28-Jan-2020 09:41:36

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

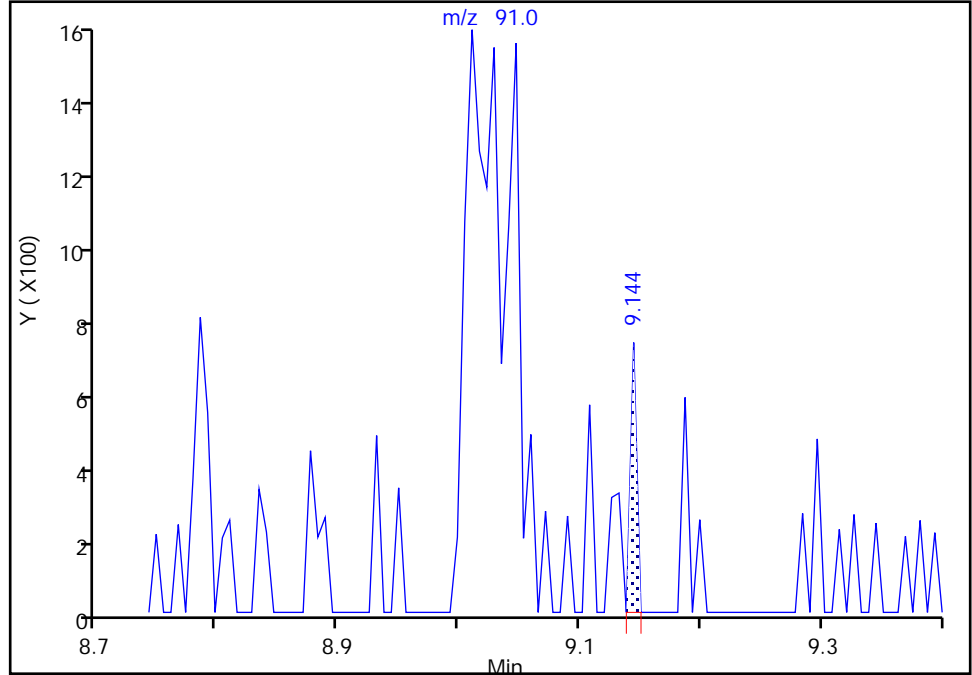
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Injection Date: 25-Jan-2020 17:59:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-11 Lab Sample ID: 180-101459-11  
Client ID: HD-QC1-0/1-1  
Operator ID: 433269 ALS Bottle#: 11 Worklist Smp#: 17  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
Column: DB-624 (0.18 mm) Detector: MS SCAN

73 Toluene, CAS: 108-88-3

Signal: 1

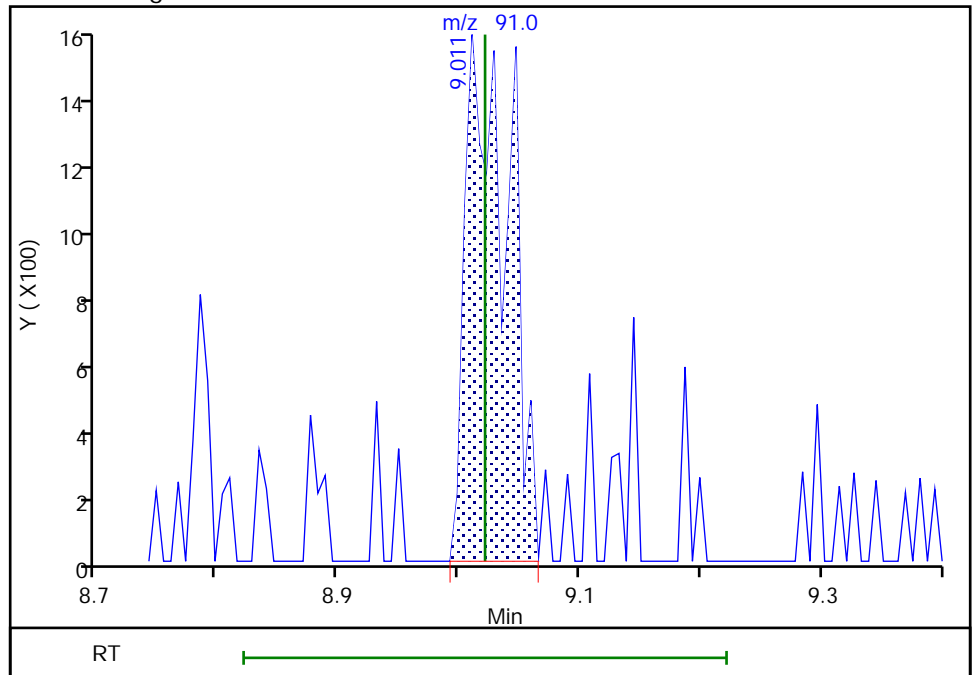
RT: 9.14  
Area: 265  
Amount: 0.024471  
Amount Units: ng

Processing Integration Results



RT: 9.01  
Area: 3897  
Amount: 0.359862  
Amount Units: ng

Manual Integration Results

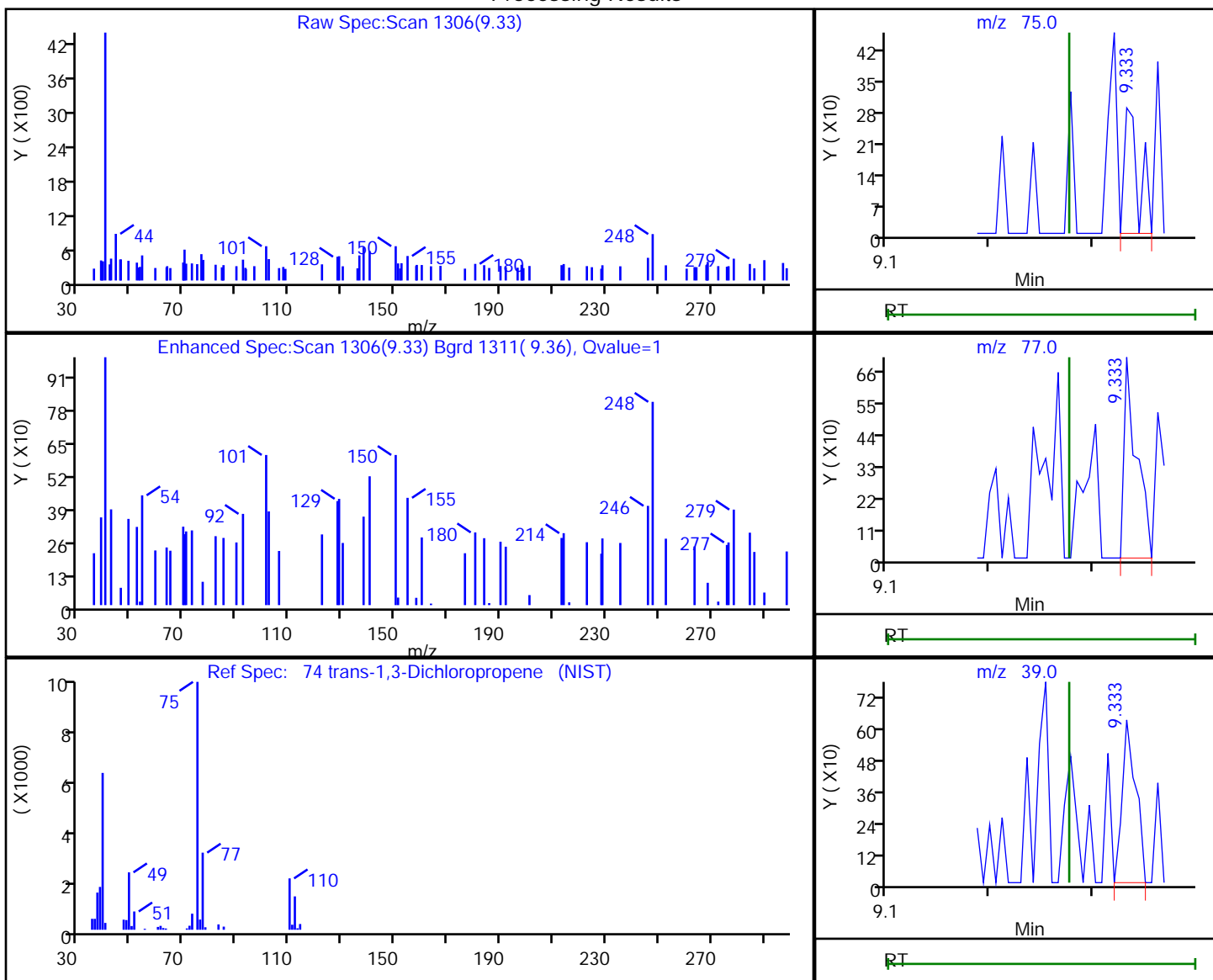


Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012517.D  
 Injection Date: 25-Jan-2020 17:59:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-11 Lab Sample ID: 180-101459-11  
 Client ID: HD-QC1-0/1-1  
 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
9.33	75.00	276	0.116577
9.33	77.00	598	
9.33	39.00	580	

Reviewer: bowieh, 28-Jan-2020 09:41:47

Audit Action: Marked Compound Undetected

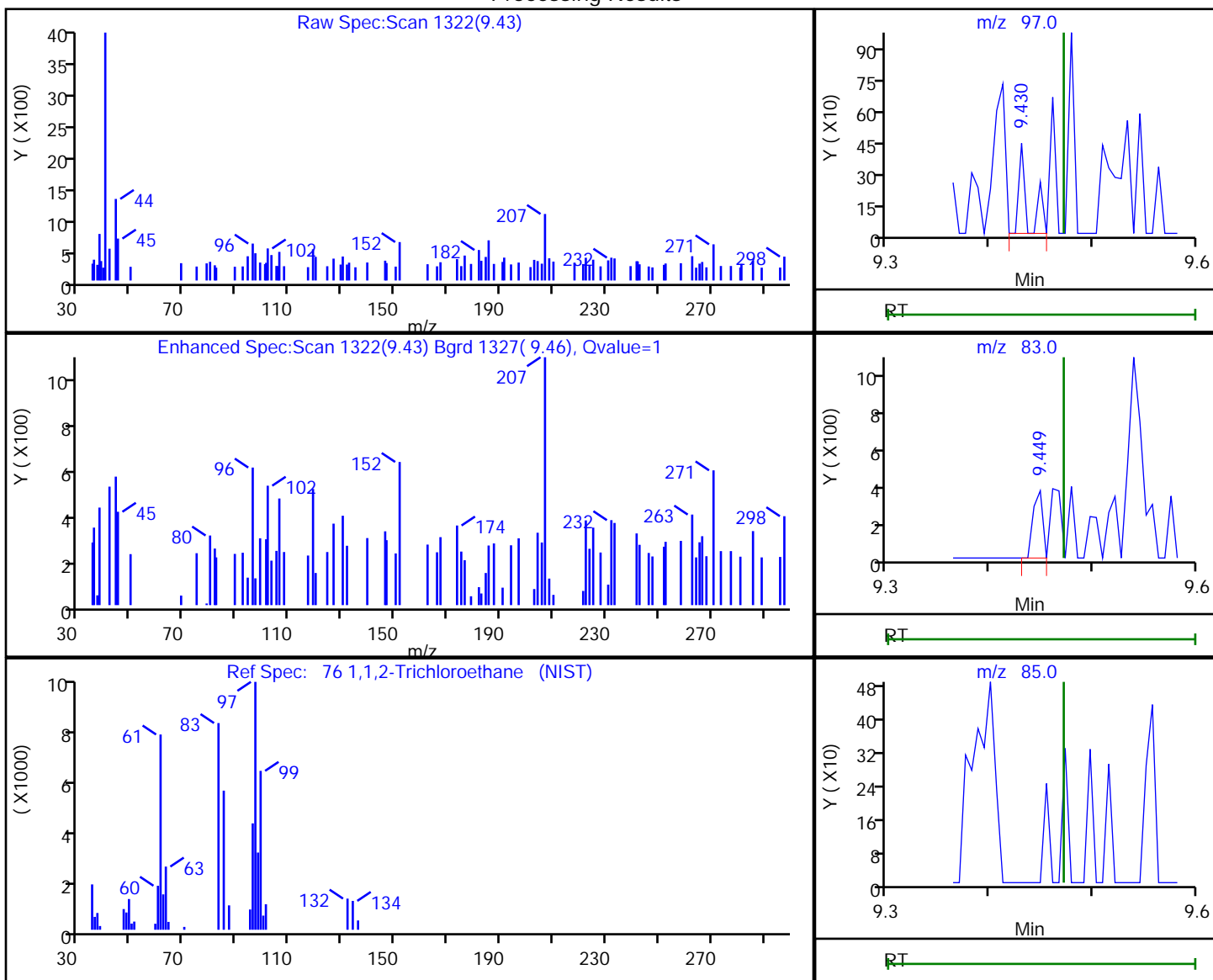
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012517.D  
 Injection Date: 25-Jan-2020 17:59:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-11 Lab Sample ID: 180-101459-11  
 Client ID: HD-QC1-0/1-1  
 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
9.43	97.00	250	0.126894
9.45	83.00	237	
9.47	85.00	0	

Reviewer: bowieh, 28-Jan-2020 09:41:48

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID



Eurofins TestAmerica, Pittsburgh

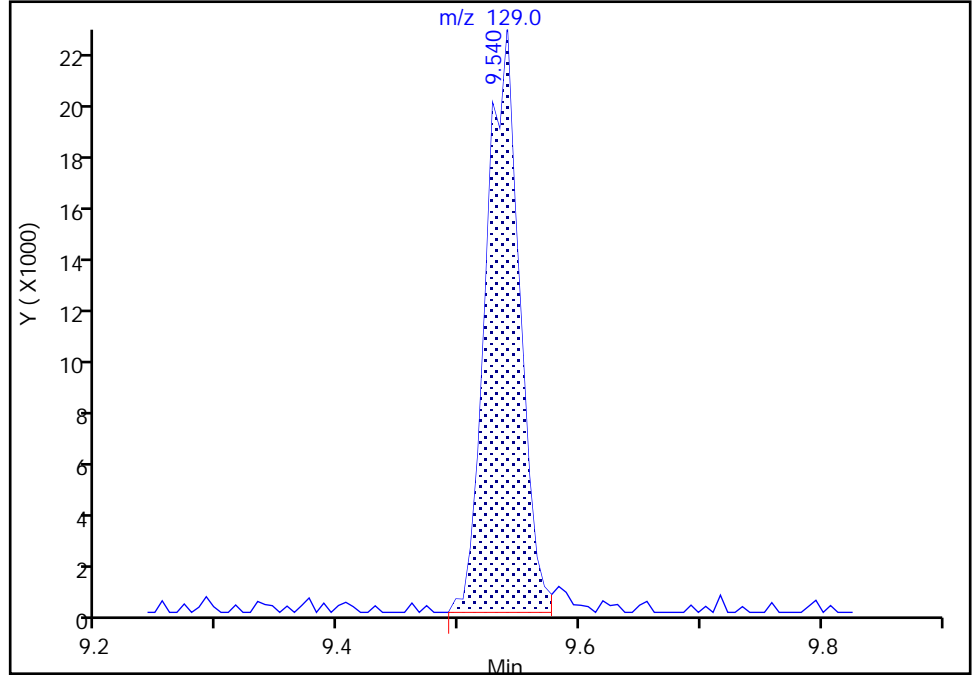
Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012517.D  
Injection Date: 25-Jan-2020 17:59:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-11 Lab Sample ID: 180-101459-11  
Client ID: HD-QC1-0/1-1  
Operator ID: 433269 ALS Bottle#: 11 Worklist Smp#: 17  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
Column: DB-624 (0.18 mm) Detector: MS SCAN

77 Tetrachloroethene, CAS: 127-18-4

Signal: 2

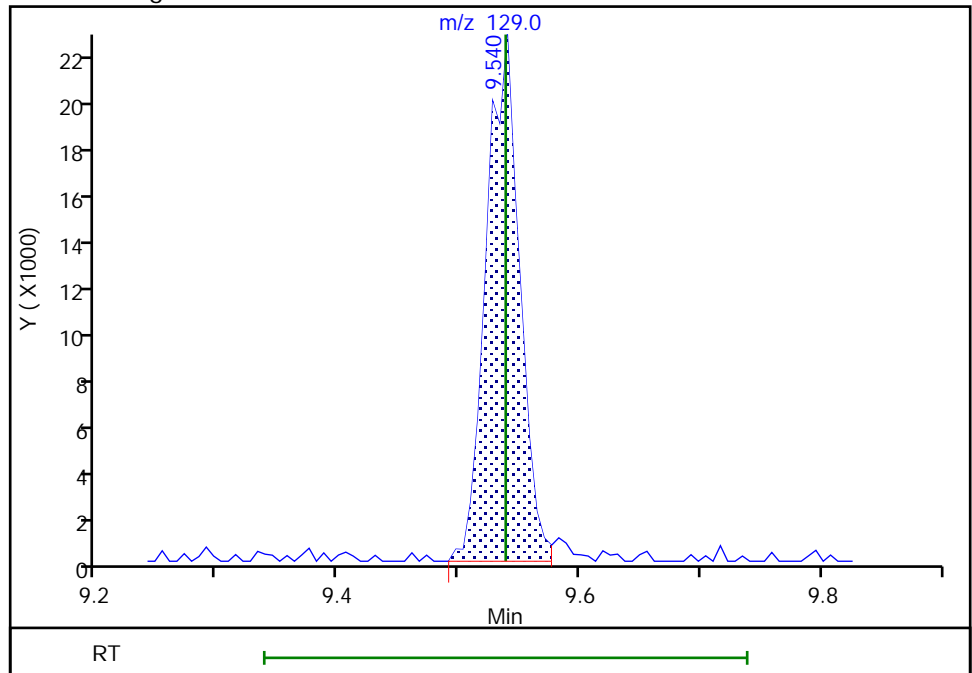
RT: 9.54  
Area: 43428  
Amount: 19.921723  
Amount Units: ng

Processing Integration Results



RT: 9.54  
Area: 43428  
Amount: 19.921723  
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 28-Jan-2020 09:41:49  
Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

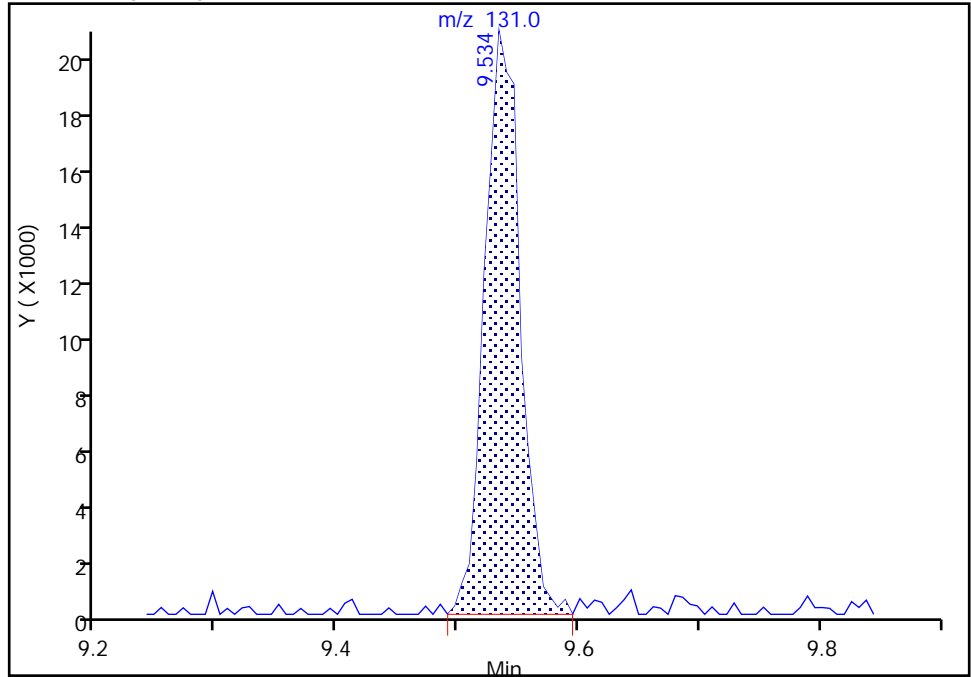
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Injection Date: 25-Jan-2020 17:59:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-11 Lab Sample ID: 180-101459-11  
Client ID: HD-QC1-0/1-1  
Operator ID: 433269 ALS Bottle#: 11 Worklist Smp#: 17  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
Column: DB-624 (0.18 mm) Detector: MS SCAN

77 Tetrachloroethene, CAS: 127-18-4

Signal: 3

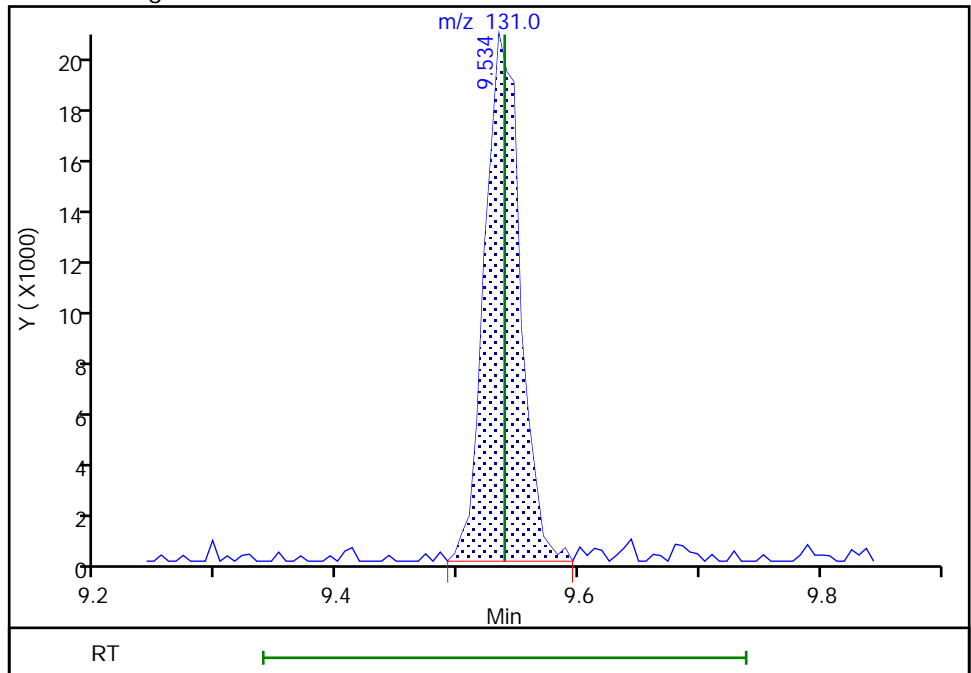
RT: 9.53  
Area: 41917  
Amount: 19.921723  
Amount Units: ng

Processing Integration Results



RT: 9.53  
Area: 41917  
Amount: 19.921723  
Amount Units: ng

Manual Integration Results

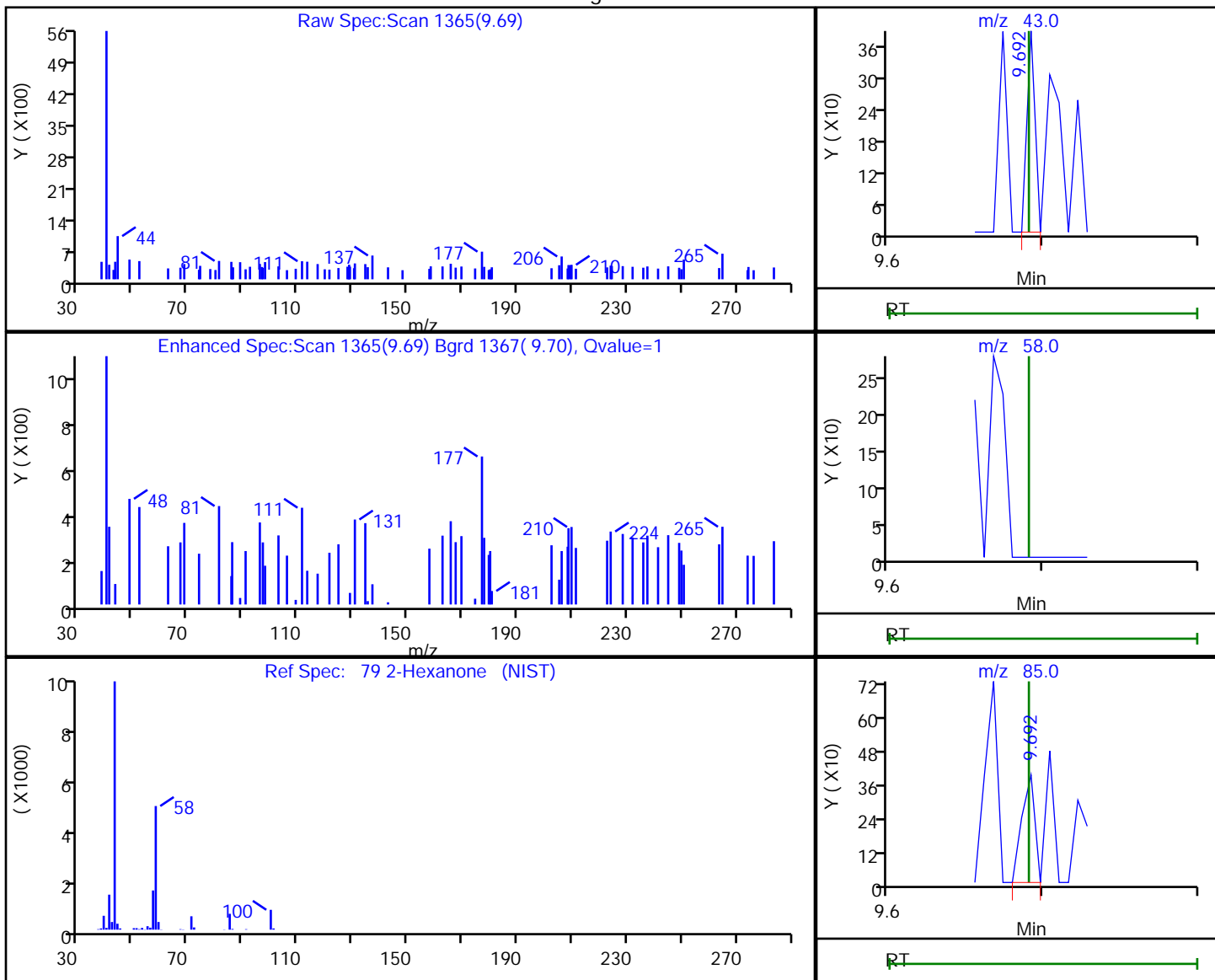


Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012517.D  
 Injection Date: 25-Jan-2020 17:59:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-11 Lab Sample ID: 180-101459-11  
 Client ID: HD-QC1-0/1-1  
 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
9.69	43.00	142	0.080910
9.69	85.00	227	
9.69	58.00	0	

Reviewer: bowieh, 28-Jan-2020 09:41:51

Audit Action: Marked Compound Undetected

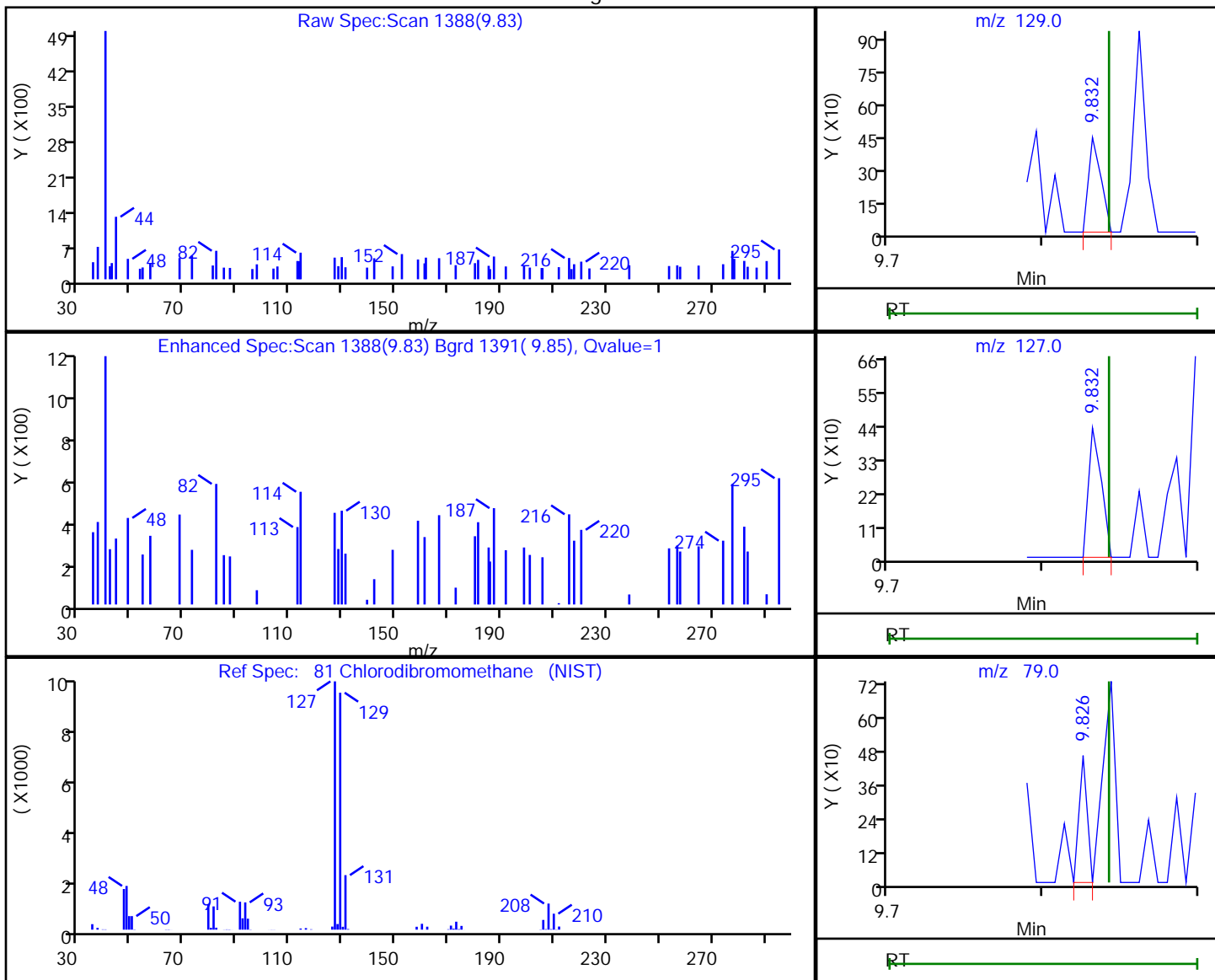
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012517.D  
 Injection Date: 25-Jan-2020 17:59:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-11 Lab Sample ID: 180-101459-11  
 Client ID: HD-QC1-0/1-1  
 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

81 Chlorodibromomethane, CAS: 124-48-1

Processing Results



RT	Mass	Response	Amount
9.83	129.00	247	0.148441
9.83	127.00	248	
9.83	79.00	168	

Reviewer: bowieh, 28-Jan-2020 09:41:52

Audit Action: Marked Compound Undetected

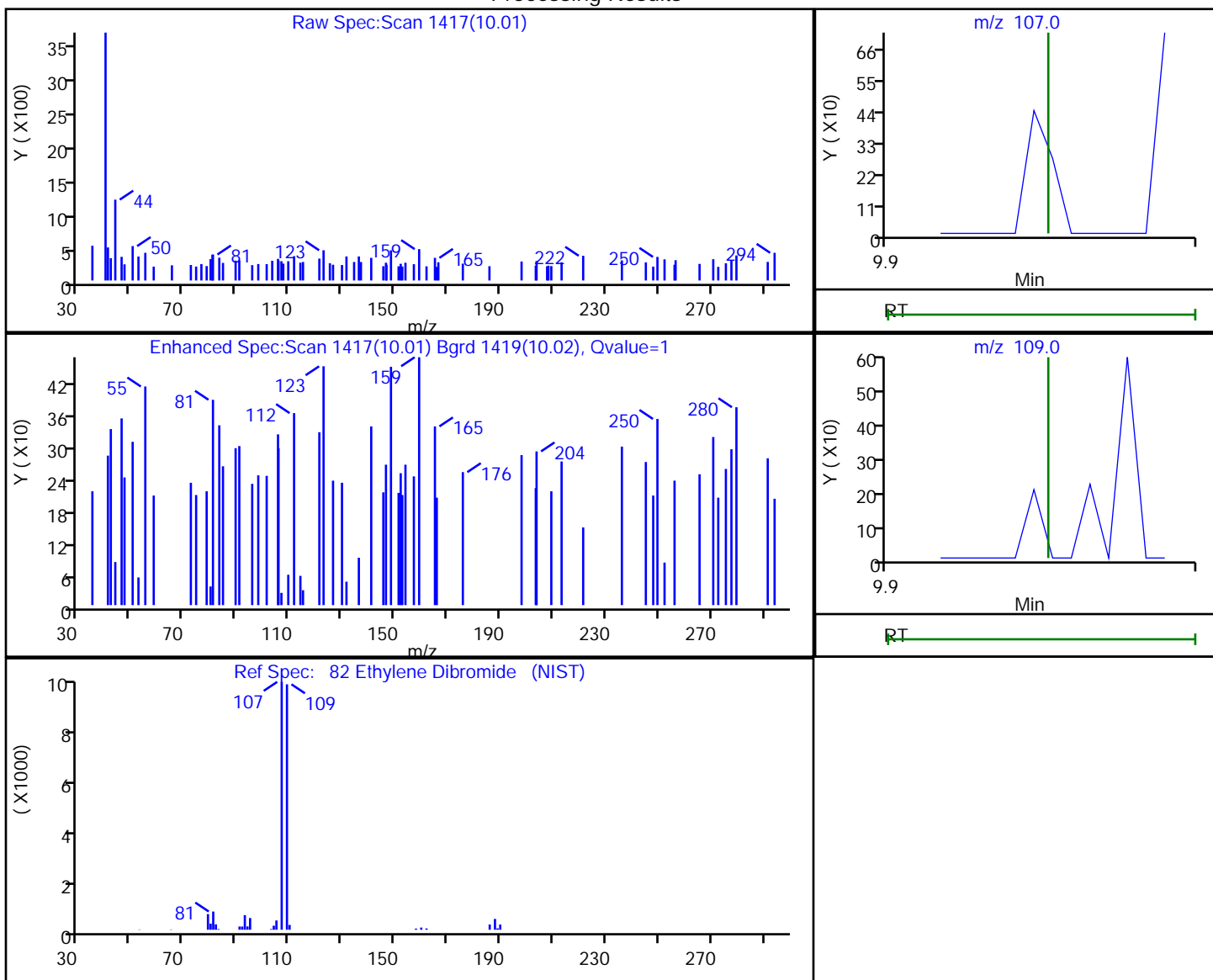
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012517.D  
 Injection Date: 25-Jan-2020 17:59:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-11 Lab Sample ID: 180-101459-11  
 Client ID: HD-QC1-0/1-1  
 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
10.01	107.00	315	0.162006
10.01	109.00	104	

Reviewer: bowieh, 28-Jan-2020 09:41:53

Audit Action: Marked Compound Undetected

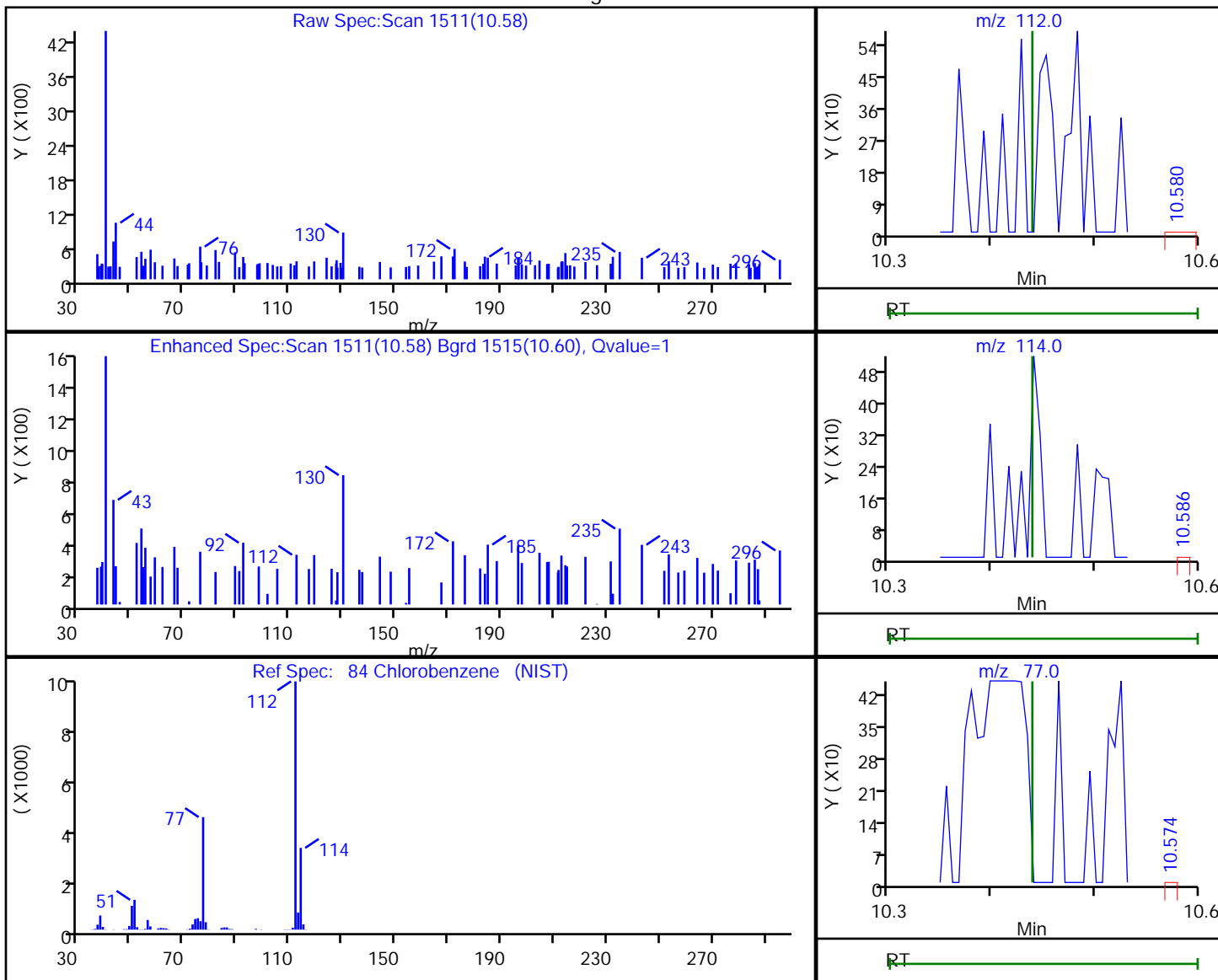
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012517.D  
 Injection Date: 25-Jan-2020 17:59:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-11 Lab Sample ID: 180-101459-11  
 Client ID: HD-QC1-0/1-1  
 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

84 Chlorobenzene, CAS: 108-90-7

Processing Results



RT	Mass	Response	Amount
10.58	112.00	390	0.054027
10.59	114.00	86	
10.57	77.00	81	

Reviewer: bowieh, 28-Jan-2020 09:41:54

Audit Action: Marked Compound Undetected

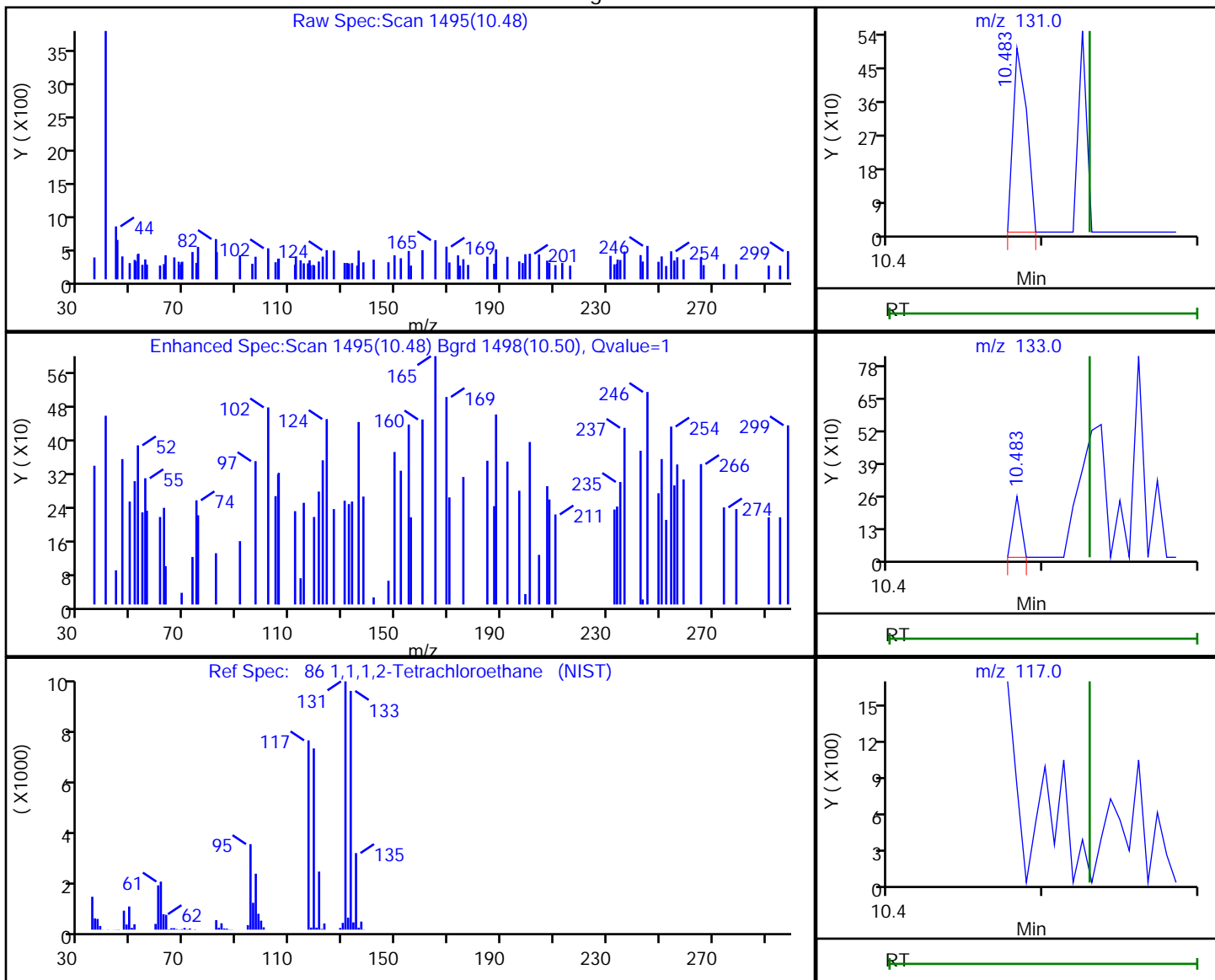
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012517.D  
 Injection Date: 25-Jan-2020 17:59:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-11 Lab Sample ID: 180-101459-11  
 Client ID: HD-QC1-0/1-1  
 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

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

Processing Results



RT	Mass	Response	Amount
10.48	131.00	304	0.143370
10.48	133.00	90	
10.53	117.00	0	

Reviewer: bowieh, 28-Jan-2020 09:41:55

Audit Action: Marked Compound Undetected

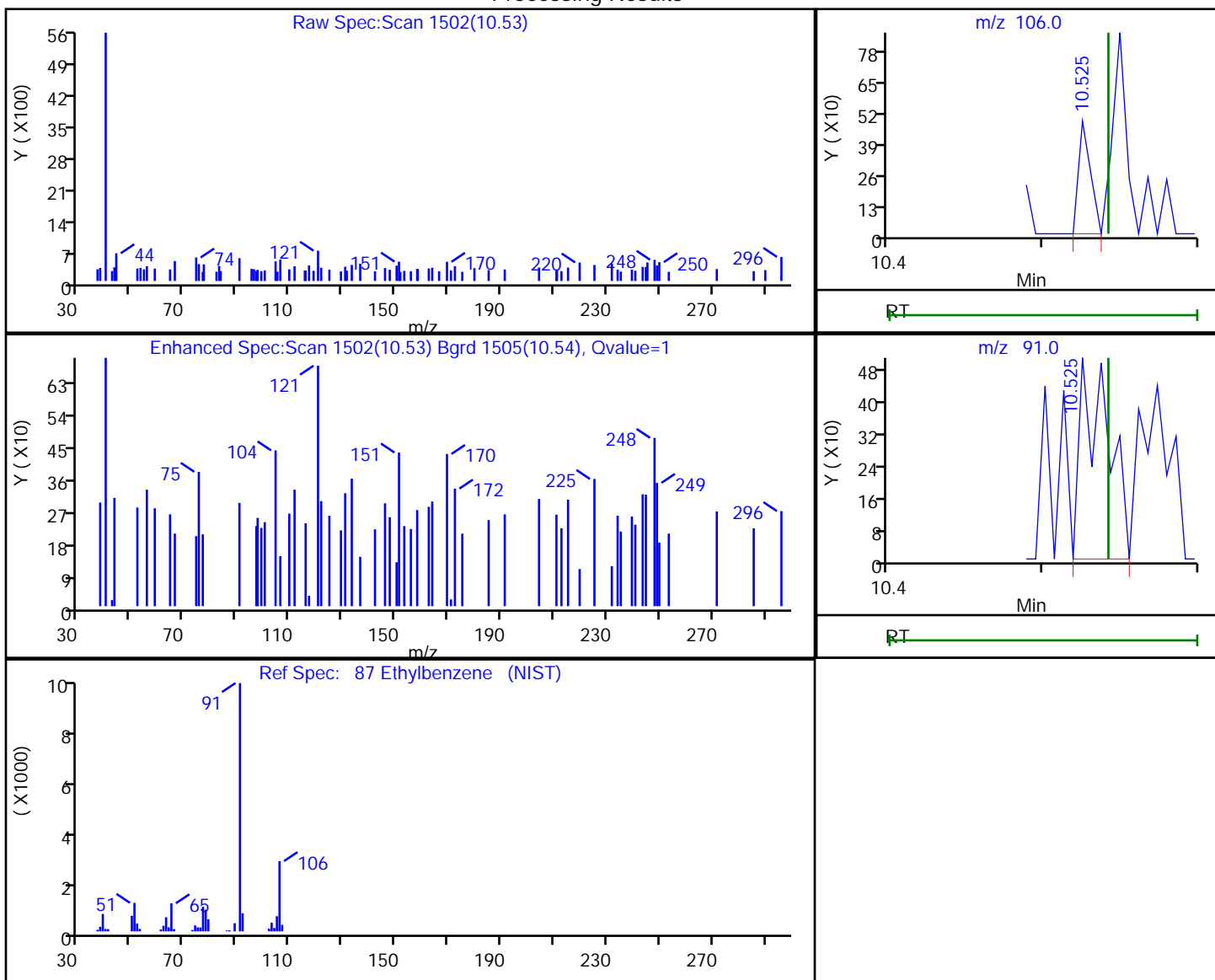
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012517.D  
 Injection Date: 25-Jan-2020 17:59:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-11 Lab Sample ID: 180-101459-11  
 Client ID: HD-QC1-0/1-1  
 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

87 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
10.53	106.00	258	0.062455
10.53	91.00	643	

Reviewer: bowieh, 28-Jan-2020 09:41:56

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

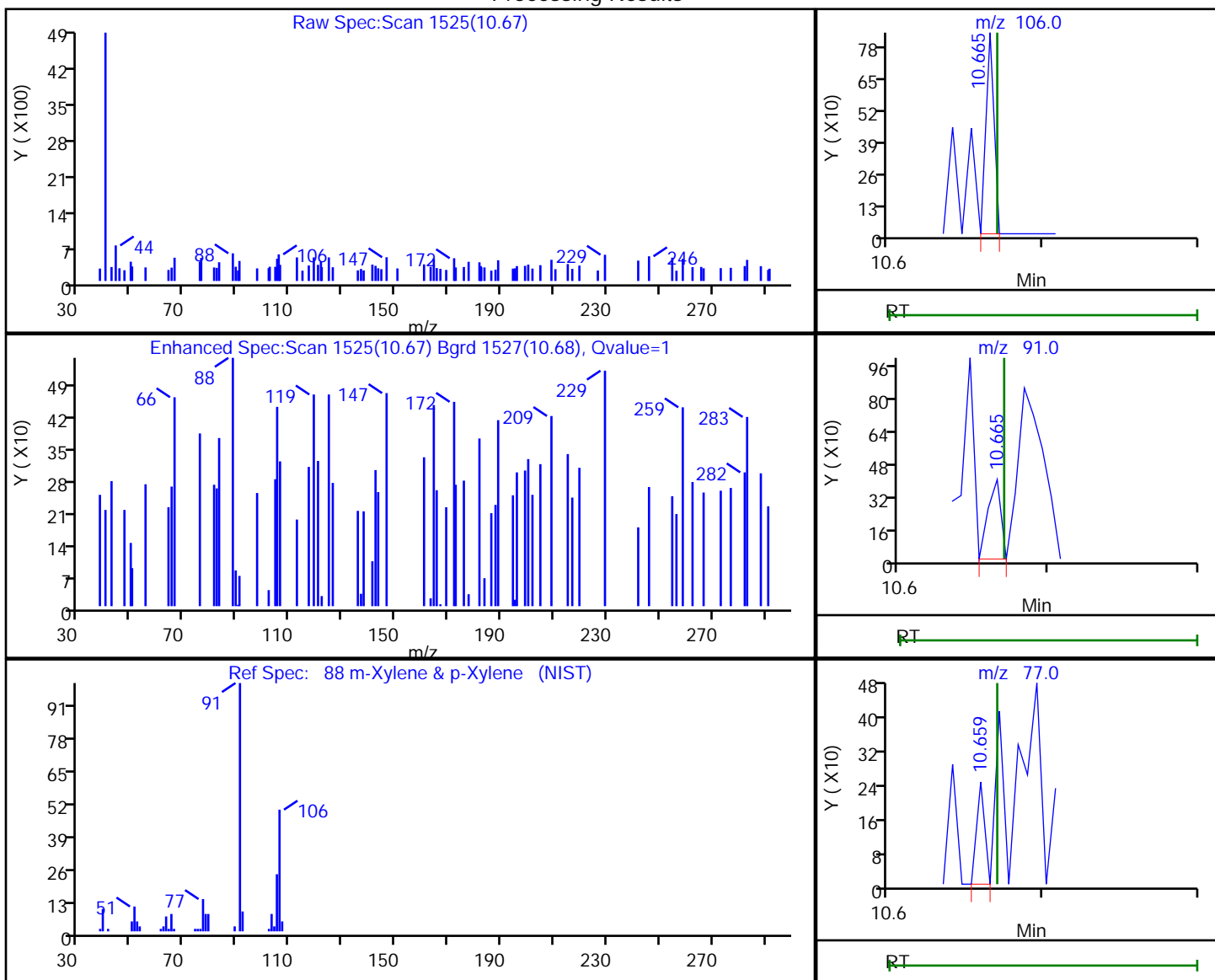


Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012517.D  
 Injection Date: 25-Jan-2020 17:59:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-11 Lab Sample ID: 180-101459-11  
 Client ID: HD-QC1-0/1-1  
 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

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

Processing Results



RT	Mass	Response	Amount
10.67	106.00	306	0.061794
10.67	91.00	235	
10.66	77.00	89	

Reviewer: bowieh, 28-Jan-2020 09:41:57

Audit Action: Marked Compound Undetected

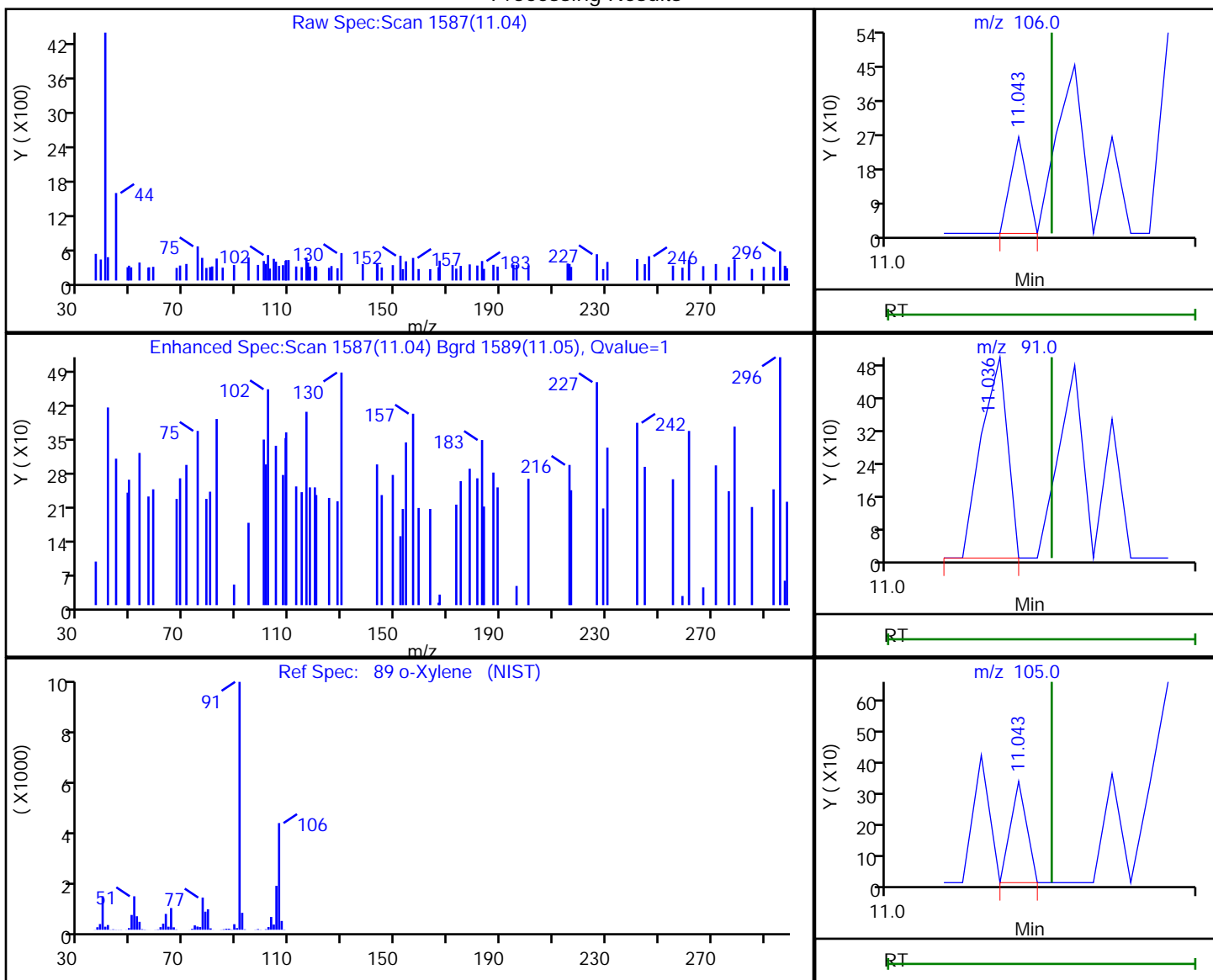
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012517.D  
 Injection Date: 25-Jan-2020 17:59:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-11 Lab Sample ID: 180-101459-11  
 Client ID: HD-QC1-0/1-1  
 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
11.04	106.00	95	0.020163
11.04	91.00	291	
11.04	105.00	122	

Reviewer: bowieh, 28-Jan-2020 09:41:59

Audit Action: Marked Compound Undetected

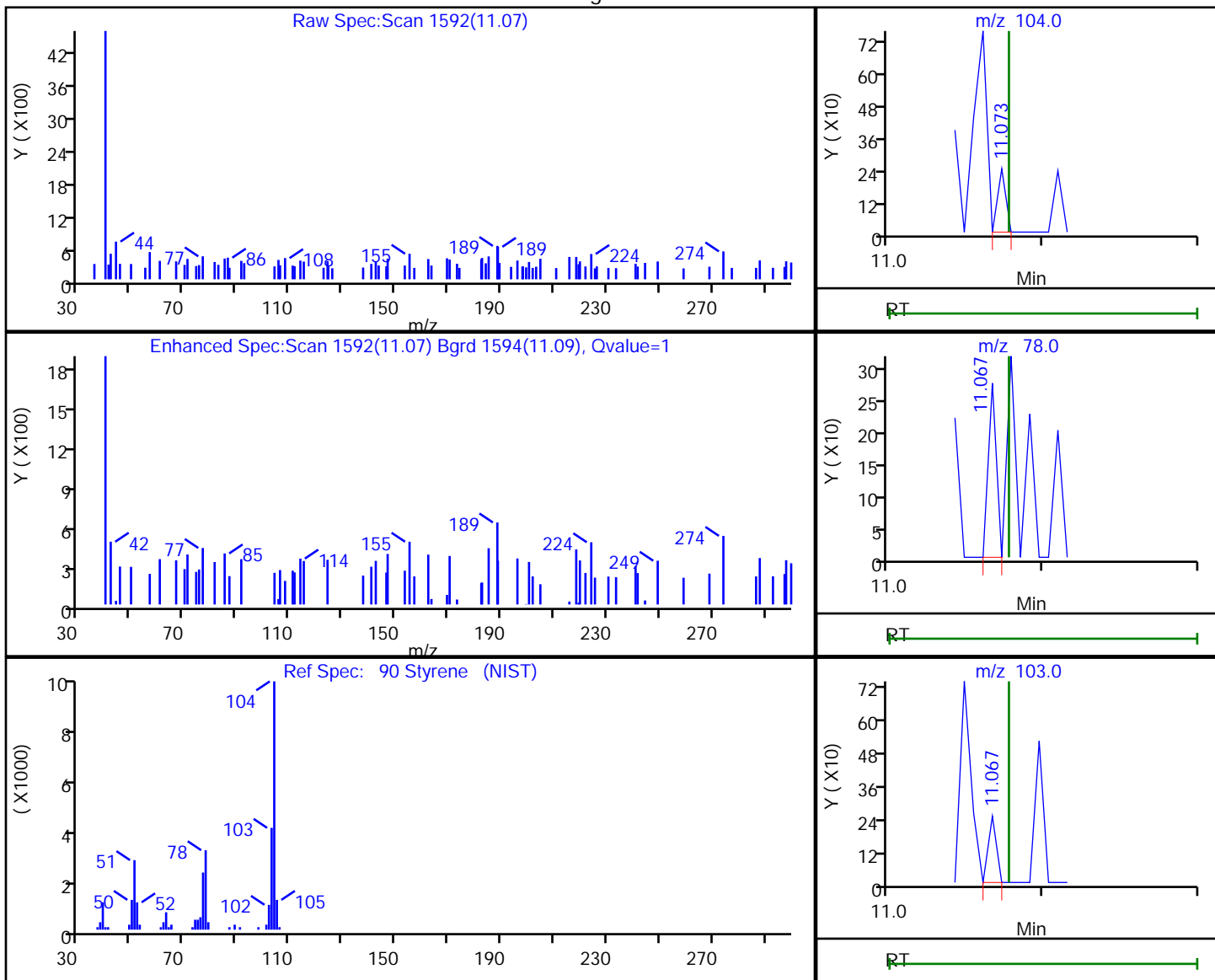
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012517.D  
 Injection Date: 25-Jan-2020 17:59:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-11 Lab Sample ID: 180-101459-11  
 Client ID: HD-QC1-0/1-1  
 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

90 Styrene, CAS: 100-42-5

Processing Results



RT	Mass	Response	Amount
11.07	104.00	87	0.011656
11.07	78.00	101	
11.07	103.00	88	

Reviewer: bowieh, 28-Jan-2020 09:42:00

Audit Action: Marked Compound Undetected

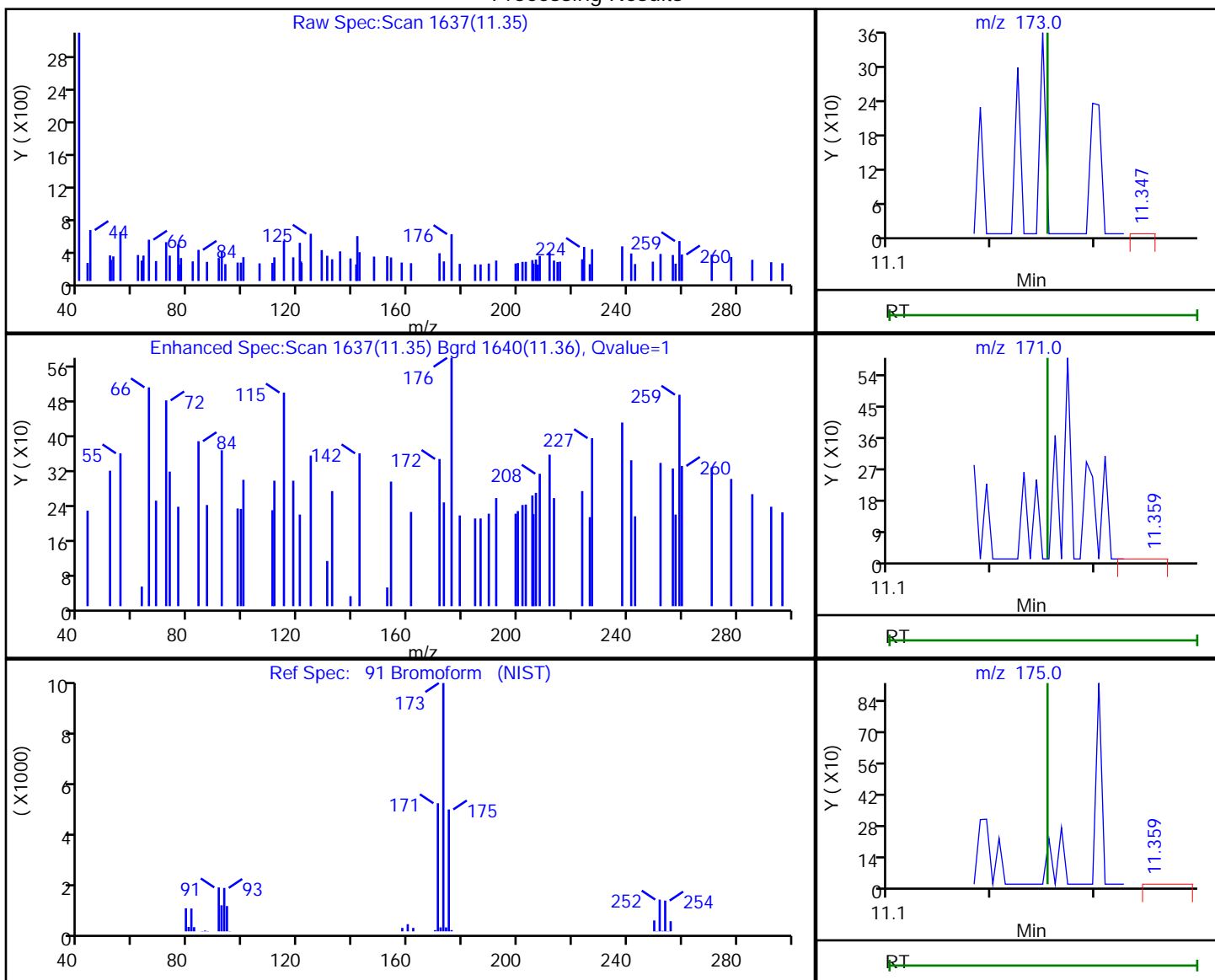
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012517.D  
 Injection Date: 25-Jan-2020 17:59:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-11 Lab Sample ID: 180-101459-11  
 Client ID: HD-QC1-0/1-1  
 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

91 Bromoform, CAS: 75-25-2

Processing Results



RT	Mass	Response	Amount
11.35	173.00	213	0.230911
11.36	171.00	533	
11.36	175.00	584	

Reviewer: bowieh, 28-Jan-2020 09:42:01

Audit Action: Marked Compound Undetected

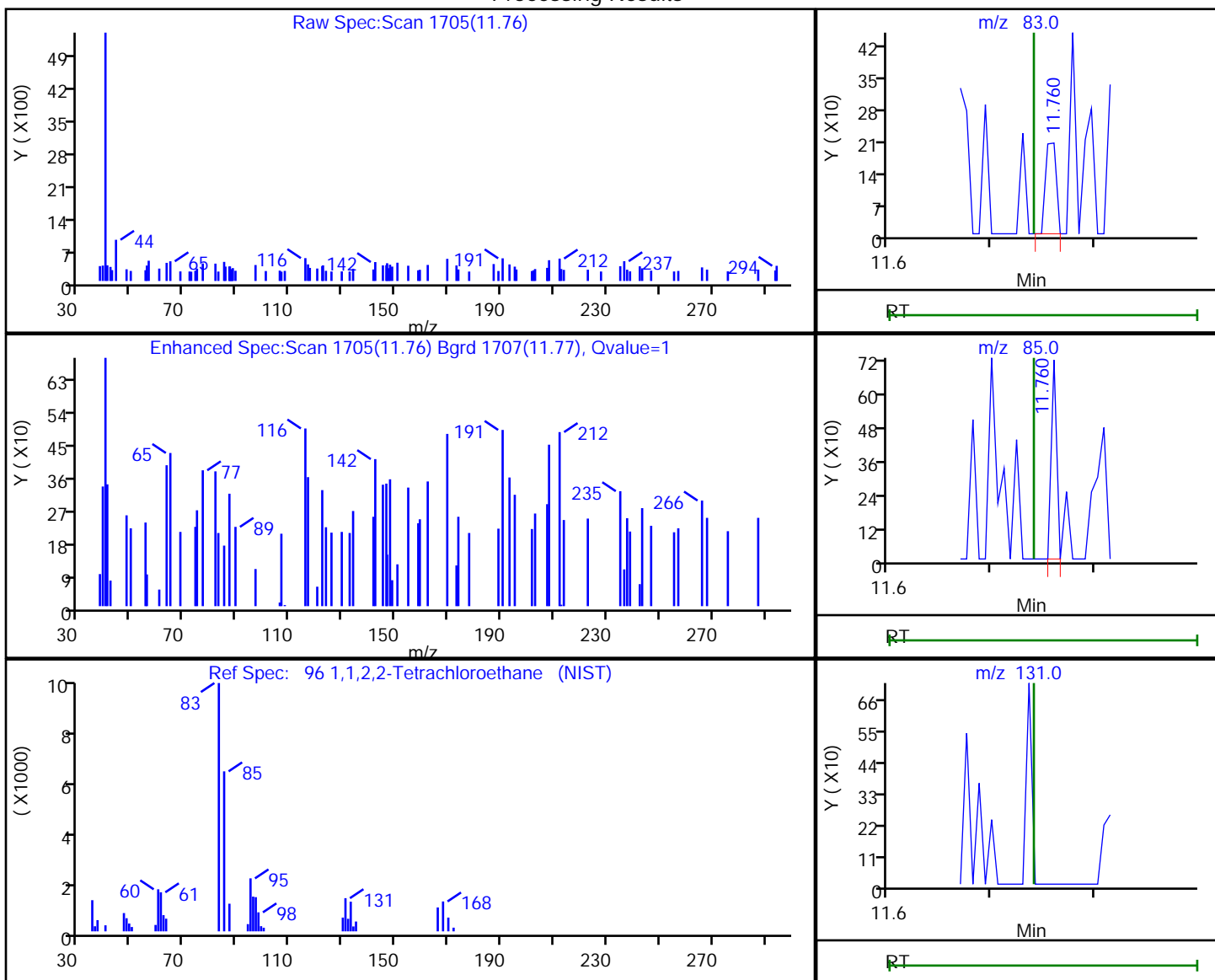
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012517.D  
 Injection Date: 25-Jan-2020 17:59:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-11 Lab Sample ID: 180-101459-11  
 Client ID: HD-QC1-0/1-1  
 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
11.76	83.00	147	0.070001
11.76	85.00	264	
11.74	131.00	0	

Reviewer: bowieh, 28-Jan-2020 09:42:02

Audit Action: Marked Compound Undetected

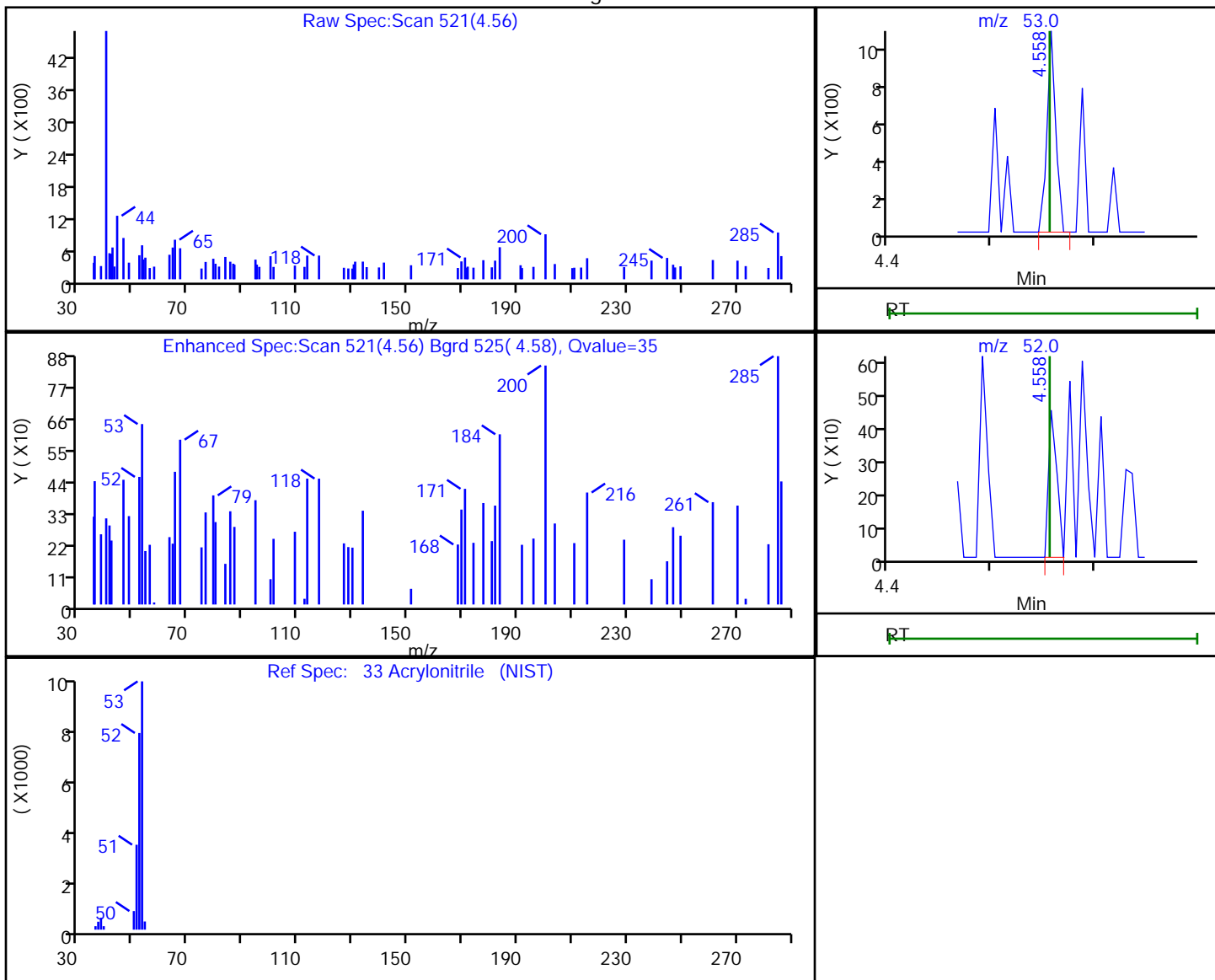
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012517.D  
 Injection Date: 25-Jan-2020 17:59:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-11 Lab Sample ID: 180-101459-11  
 Client ID: HD-QC1-0/1-1  
 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
4.56	53.00	597	0.646807
4.56	52.00	254	

Reviewer: bowieh, 28-Jan-2020 09:41:19

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.: 180-101459-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: HD-COD-SW-9-0/1-0 Lab Sample ID: 180-101459-12  
 Matrix: Water Lab File ID: 6012518.D  
 Analysis Method: EPA 8260C Date Collected: 01/23/2020 13:40  
 Sample wt/vol: 5 (mL) Date Analyzed: 01/25/2020 18:26  
 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.: 304996 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	ND	^c	1.0	0.88
74-83-9	Bromomethane	ND	^c	1.0	0.89
75-00-3	Chloroethane	ND	^c	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.: 180-101459-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: HD-COD-SW-9-0/1-0 Lab Sample ID: 180-101459-12  
 Matrix: Water Lab File ID: 6012518.D  
 Analysis Method: EPA 8260C Date Collected: 01/23/2020 13:40  
 Sample wt/vol: 5 (mL) Date Analyzed: 01/25/2020 18:26  
 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.: 304996 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)	124		70-150
2037-26-5	Toluene-d8 (Surr)	97		78-128
460-00-4	4-Bromofluorobenzene (Surr)	76		64-123
1868-53-7	Dibromofluoromethane (Surr)	119		75-147



Eurofins TestAmerica, Pittsburgh  
Target Compound Quantitation Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012518.D  
 Lims ID: 180-101459-B-12  
 Client ID: HD-COD-SW-9-0/1-0  
 Sample Type: Client  
 Inject. Date: 25-Jan-2020 18:26:30 ALS Bottle#: 12 Worklist Smp#: 18  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 180-0030512-018  
 Misc. Info.: 180-101459-b-12  
 Operator ID: 433269 Instrument ID: CHHP6  
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\MSVOA\_LL\_CHHP6.m  
 Limit Group: VOA 8260C\_D ICAL  
 Last Update: 28-Jan-2020 09:43:35 Calib Date: 31-Dec-2019 16:03:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123111.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0335

First Level Reviewer: bowieh

Date: 28-Jan-2020 09:43:35

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.308	4.319	-0.011	88	122866	1000.0	
* 2 Fluorobenzene (IS)	96	7.301	7.306	-0.005	99	450023	50.0	
* 3 Chlorobenzene-d5	119	10.409	10.408	0.001	84	122406	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.758	12.757	0.001	92	167406	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.583	6.582	0.001	93	120617	59.5	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.954	6.953	0.001	97	131137	62.1	
\$ 7 Toluene-d8 (Surr)	98	8.955	8.954	0.001	94	440950	48.6	
\$ 8 4-Bromofluorobenzene (Surr	95	11.596	11.595	0.001	0	123456	38.1	
12 Chloromethane	50	1.832	1.837	-0.005	9	3190	0.9302	M
13 Vinyl chloride	62		1.952				ND	U
15 Bromomethane	94		2.287				ND	U
16 Chloroethane	64		2.421				ND	U
22 1,1-Dichloroethene	96		3.370				ND	
24 Acetone	43	3.474	3.473	0.001	79	15804	14.4	M
26 Carbon disulfide	76		3.662				ND	U
31 Methylene Chloride	84		4.155				ND	
33 Acrylonitrile	53		4.556				ND	U
34 trans-1,2-Dichloroethene	96		4.574				ND	U
35 Methyl tert-butyl ether	73		4.611				ND	U
37 1,1-Dichloroethane	63		5.219				ND	
43 cis-1,2-Dichloroethene	96		5.967				ND	U
44 2-Butanone (MEK)	43		5.980				ND	Ua
48 Chlorobromomethane	128		6.247				ND	
50 Chloroform	83		6.393				ND	
51 1,1,1-Trichloroethane	97		6.558				ND	U
53 Carbon tetrachloride	117		6.722				ND	U
56 Benzene	78		6.959				ND	Ua
57 1,2-Dichloroethane	62		7.038				ND	U
61 Trichloroethene	130		7.689				ND	U
64 1,2-Dichloropropane	63		7.963				ND	U
68 Dichlorobromomethane	83		8.249				ND	U

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
71 cis-1,3-Dichloropropene	75		8.699				ND	U
72 4-Methyl-2-pentanone (MIBK)	43		8.857				ND	U
73 Toluene	91	9.028	9.021	0.007	54	5903	0.5117	
74 trans-1,3-Dichloropropene	75		9.277				ND	U
76 1,1,2-Trichloroethane	97		9.472				ND	U
77 Tetrachloroethene	164	9.545	9.538	0.007	46	2232	0.7832	
79 2-Hexanone	43		9.691				ND	U
81 Chlorodibromomethane	129		9.843				ND	U
82 Ethylene Dibromide	107		9.952				ND	U
84 Chlorobenzene	112		10.439				ND	U
86 1,1,1,2-Tetrachloroethane	131		10.530				ND	U
87 Ethylbenzene	106		10.542				ND	U
88 m-Xylene & p-Xylene	106		10.670				ND	U
89 o-Xylene	106		11.053				ND	U
90 Styrene	104		11.078				ND	U
91 Bromoform	173		11.254				ND	U
96 1,1,2,2-Tetrachloroethane	83		11.741				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:

VOA8260INT\_00103

Amount Added: 2.00

Units: uL

Run Reagent

VOA8260SURR\_00103

Amount Added: 2.00

Units: uL

Run Reagent

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012518.D

Injection Date: 25-Jan-2020 18:26:30

Instrument ID: CHHP6

Operator ID: 433269

Lims ID: 180-101459-B-12

Lab Sample ID: 180-101459-12

Worklist Smp#: 18

Client ID: HD-COD-SW-9-0/1-0

Purge Vol: 5.000 mL

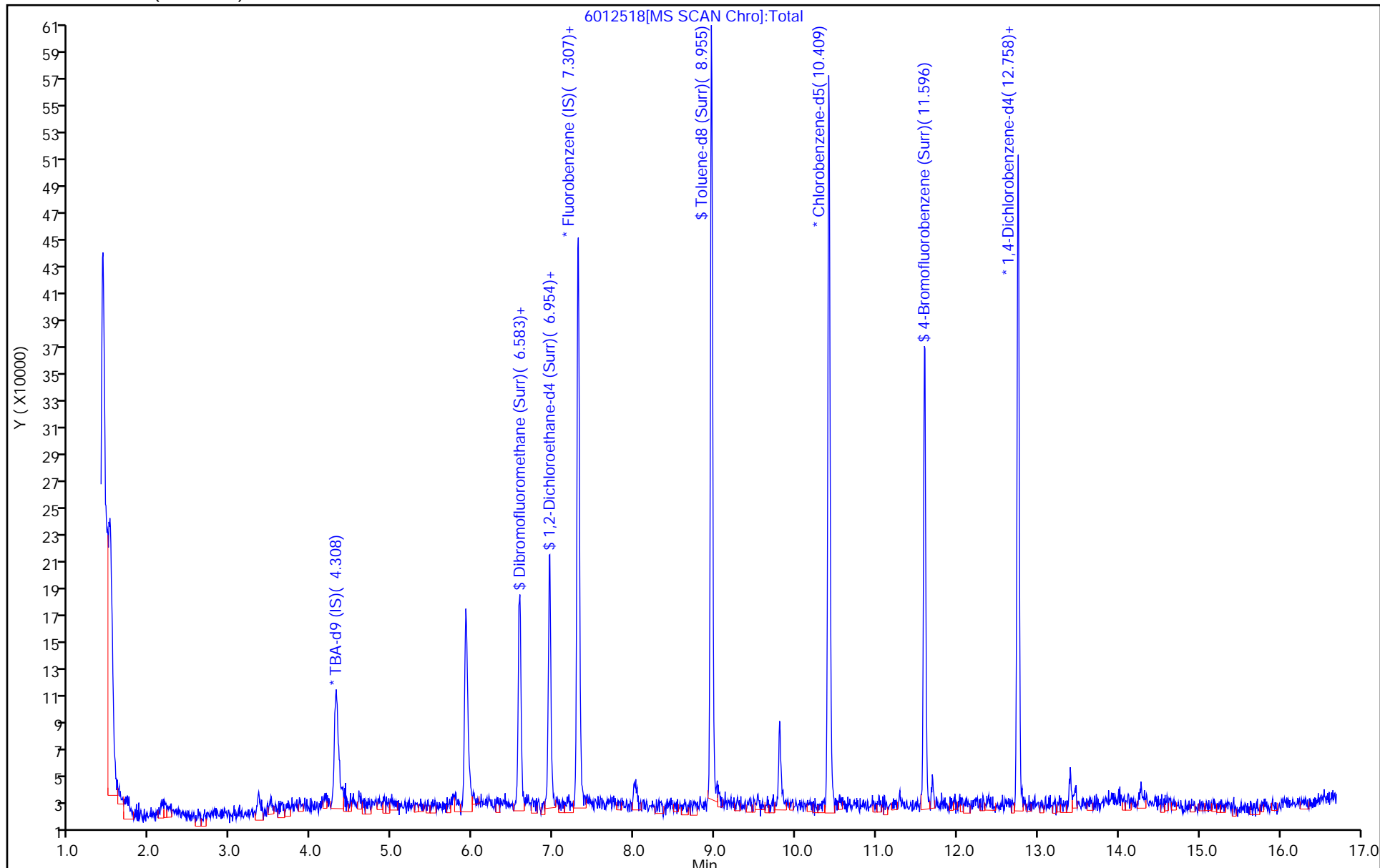
Dil. Factor: 1.0000

ALS Bottle#: 12

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\20200125-30512.b\6012518.D  
 Lims ID: 180-101459-B-12  
 Client ID: HD-COD-SW-9-0/1-0  
 Sample Type: Client  
 Inject. Date: 25-Jan-2020 18:26:30 ALS Bottle#: 12 Worklist Smp#: 18  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 180-0030512-018  
 Misc. Info.: 180-101459-b-12  
 Operator ID: 433269 Instrument ID: CHHP6  
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\MSVOA\_LL\_CHHP6.m  
 Limit Group: VOA 8260C\_D ICAL  
 Last Update: 28-Jan-2020 09:43:35 Calib Date: 31-Dec-2019 16:03:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123111.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0335

First Level Reviewer: bowieh Date: 28-Jan-2020 09:43:35

Compound	Amount Added	Amount Recovered	% Rec.
\$ 5 Dibromofluoromethane (Surr)	50.0	59.5	118.96
\$ 6 1,2-Dichloroethane-d4 (Surr)	50.0	62.1	124.28
\$ 7 Toluene-d8 (Surr)	50.0	48.6	97.26
\$ 8 4-Bromofluorobenzene (Surr)	50.0	38.1	76.24

Eurofins TestAmerica, Pittsburgh

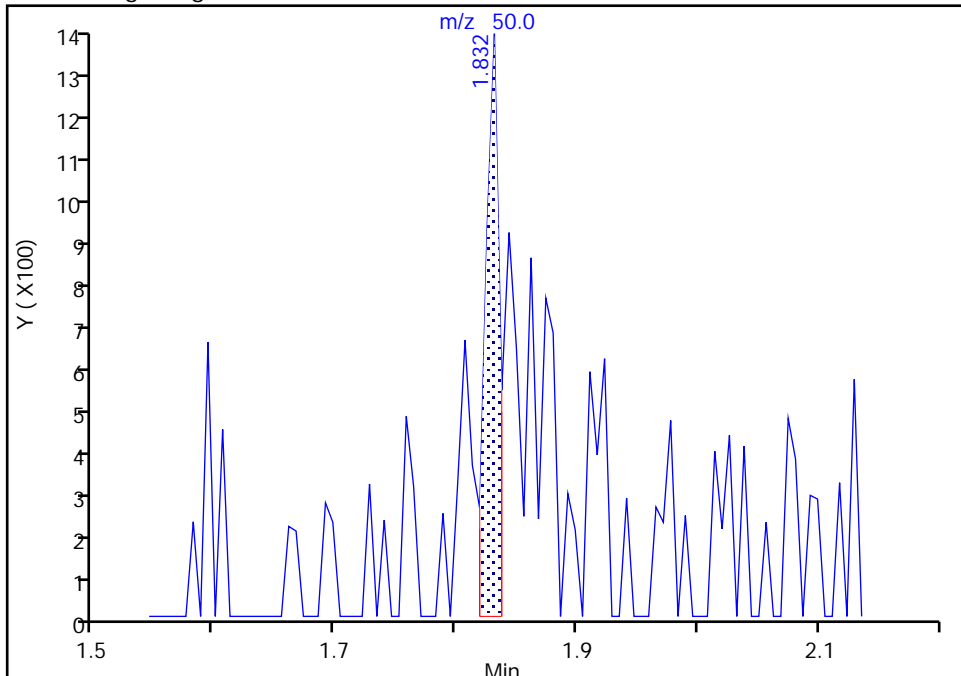
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Injection Date: 25-Jan-2020 18:26:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-12 Lab Sample ID: 180-101459-12  
Client ID: HD-COD-SW-9-0/1-0  
Operator ID: 433269 ALS Bottle#: 12 Worklist Smp#: 18  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
Column: DB-624 (0.18 mm) Detector: MS SCAN

12 Chloromethane, CAS: 74-87-3

Signal: 1

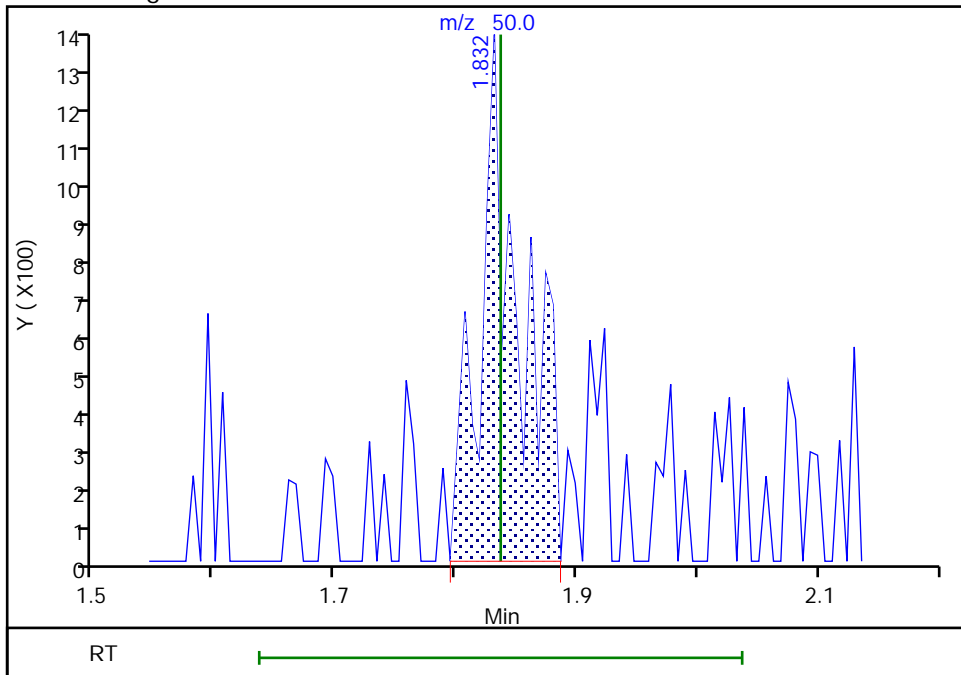
RT: 1.83  
Area: 1133  
Amount: 0.330369  
Amount Units: ng

Processing Integration Results



RT: 1.83  
Area: 3190  
Amount: 0.930166  
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 28-Jan-2020 09:42:26  
Audit Action: Manually Integrated

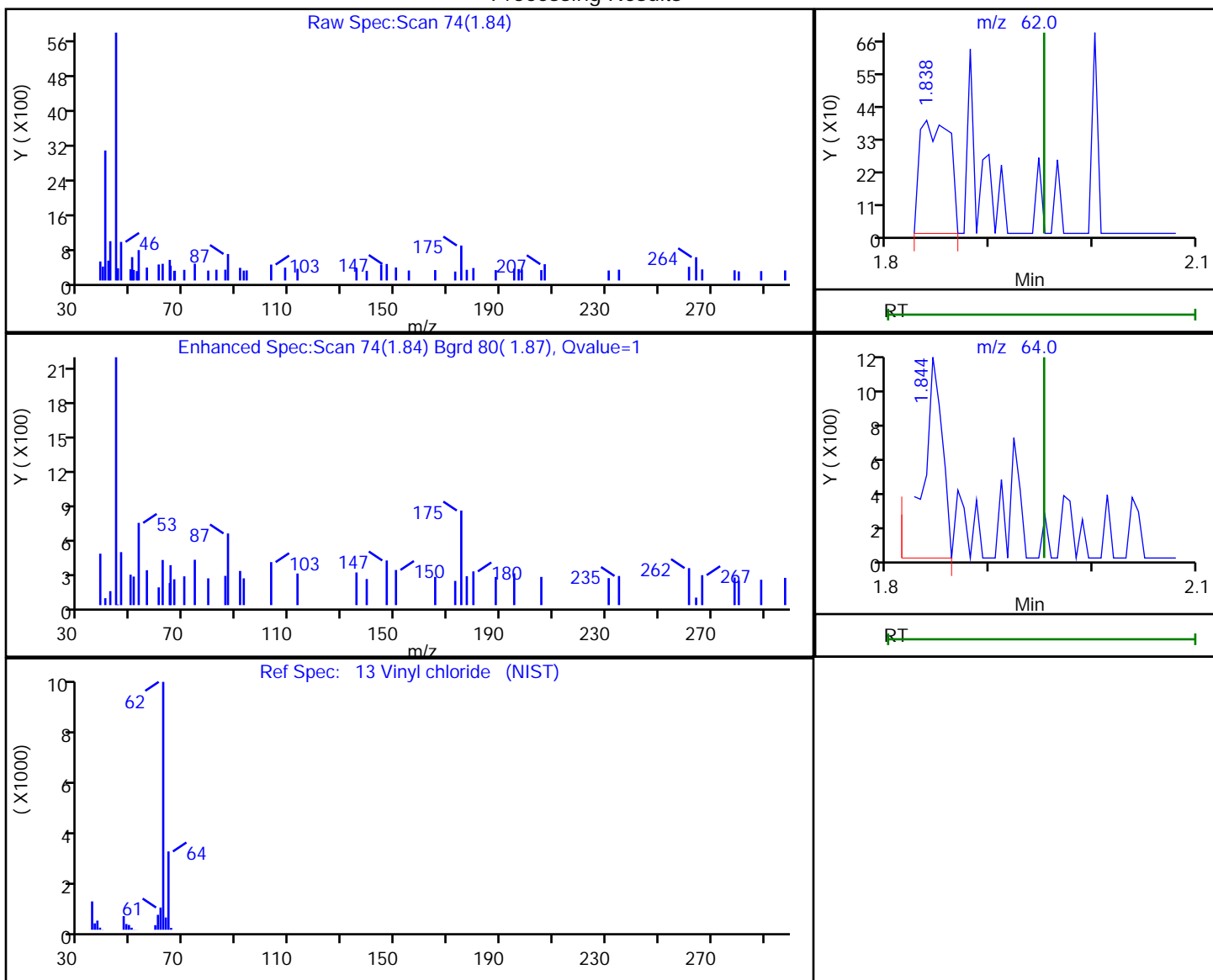
Audit Reason: Poor chromatography

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012518.D  
 Injection Date: 25-Jan-2020 18:26:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-12 Lab Sample ID: 180-101459-12  
 Client ID: HD-COD-SW-9-0/1-0  
 Operator ID: 433269 ALS Bottle#: 12 Worklist Smp#: 18  
 Purge Vol: 5.000 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
1.84	62.00	771	0.261249
1.84	64.00	1439	

Reviewer: bowieh, 28-Jan-2020 09:42:30

Audit Action: Marked Compound Undetected

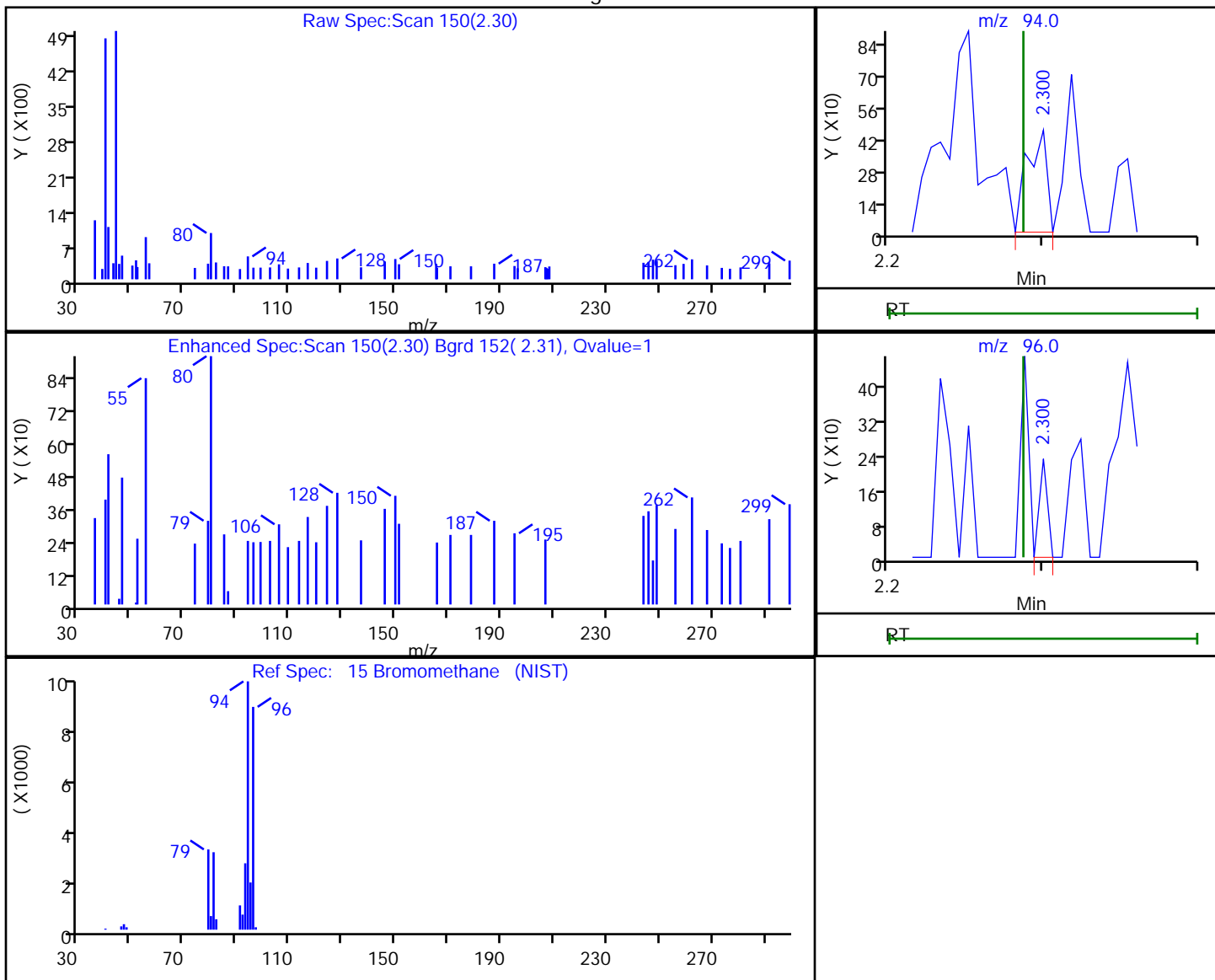
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012518.D  
 Injection Date: 25-Jan-2020 18:26:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-12 Lab Sample ID: 180-101459-12  
 Client ID: HD-COD-SW-9-0/1-0  
 Operator ID: 433269 ALS Bottle#: 12 Worklist Smp#: 18  
 Purge Vol: 5.000 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
2.30	94.00	398	0.211379
2.30	96.00	84	

Reviewer: bowieh, 28-Jan-2020 09:42:31

Audit Action: Marked Compound Undetected

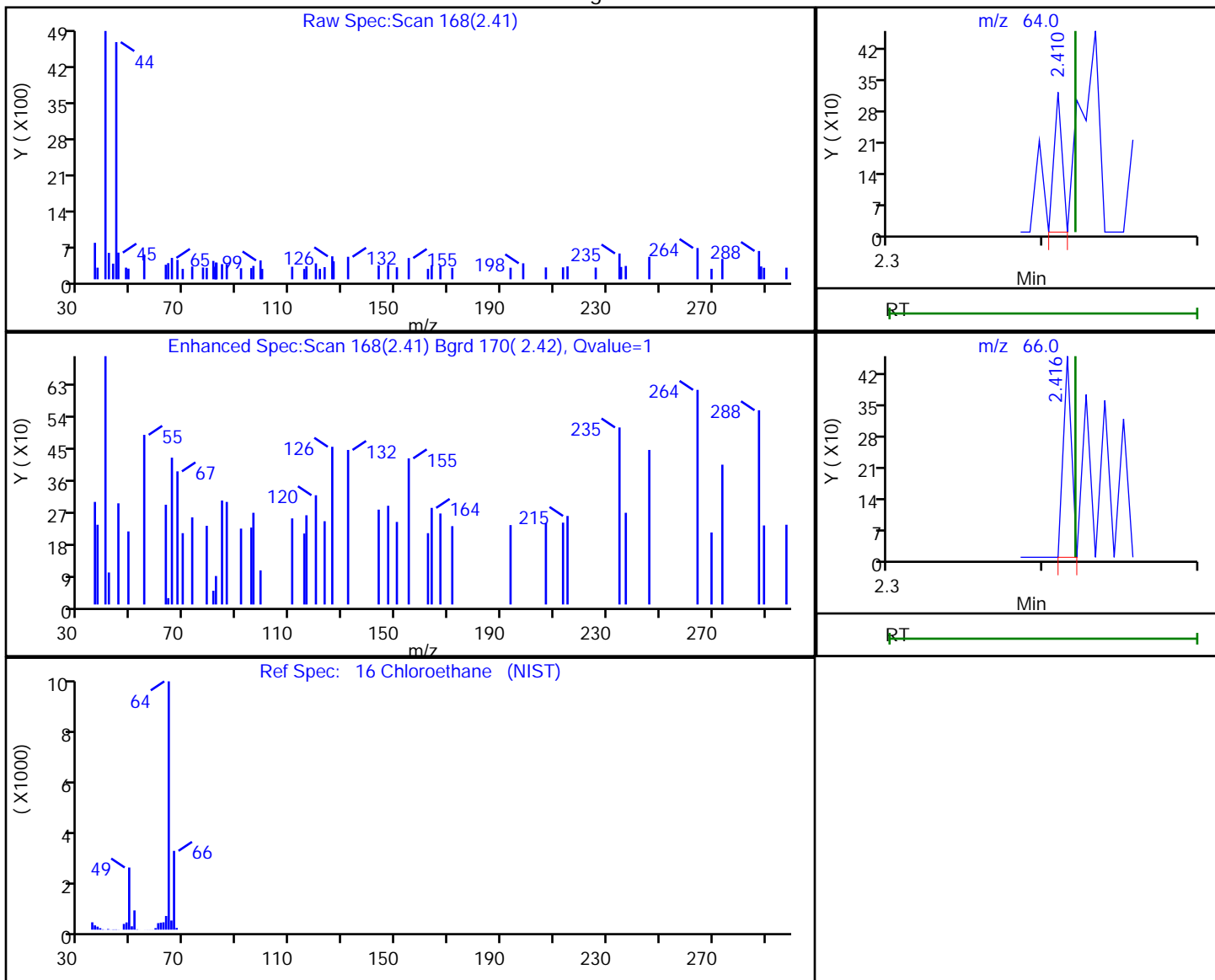
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012518.D  
 Injection Date: 25-Jan-2020 18:26:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-12 Lab Sample ID: 180-101459-12  
 Client ID: HD-COD-SW-9-0/1-0  
 Operator ID: 433269 ALS Bottle#: 12 Worklist Smp#: 18  
 Purge Vol: 5.000 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
2.41	64.00	115	0.053505
2.42	66.00	166	

Reviewer: bowieh, 28-Jan-2020 09:42:32

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID



Eurofins TestAmerica, Pittsburgh

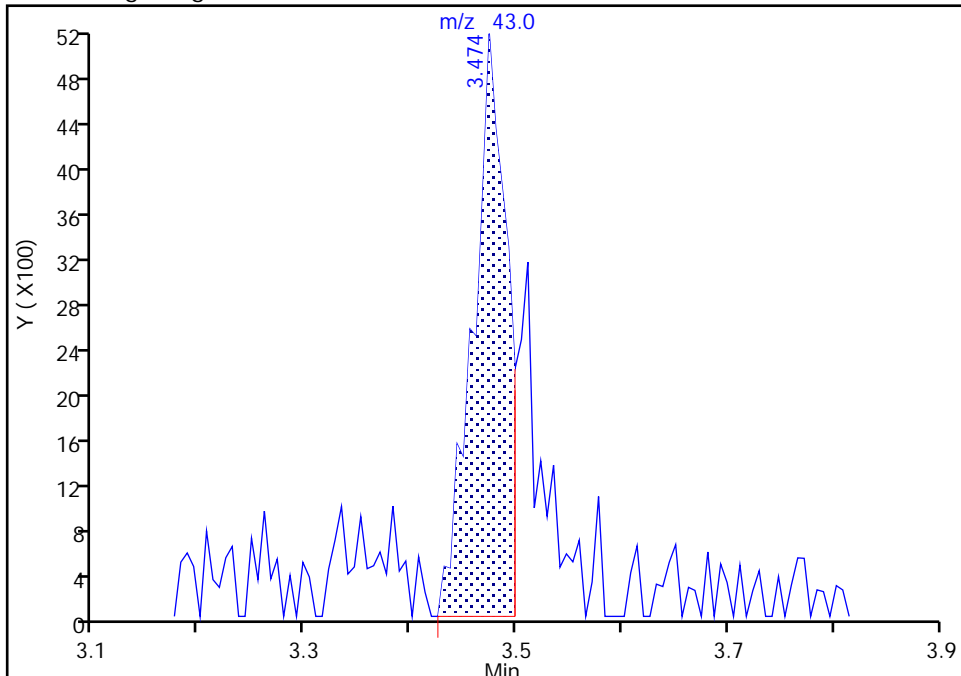
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Injection Date: 25-Jan-2020 18:26:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-12 Lab Sample ID: 180-101459-12  
Client ID: HD-COD-SW-9-0/1-0  
Operator ID: 433269 ALS Bottle#: 12 Worklist Smp#: 18  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: 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

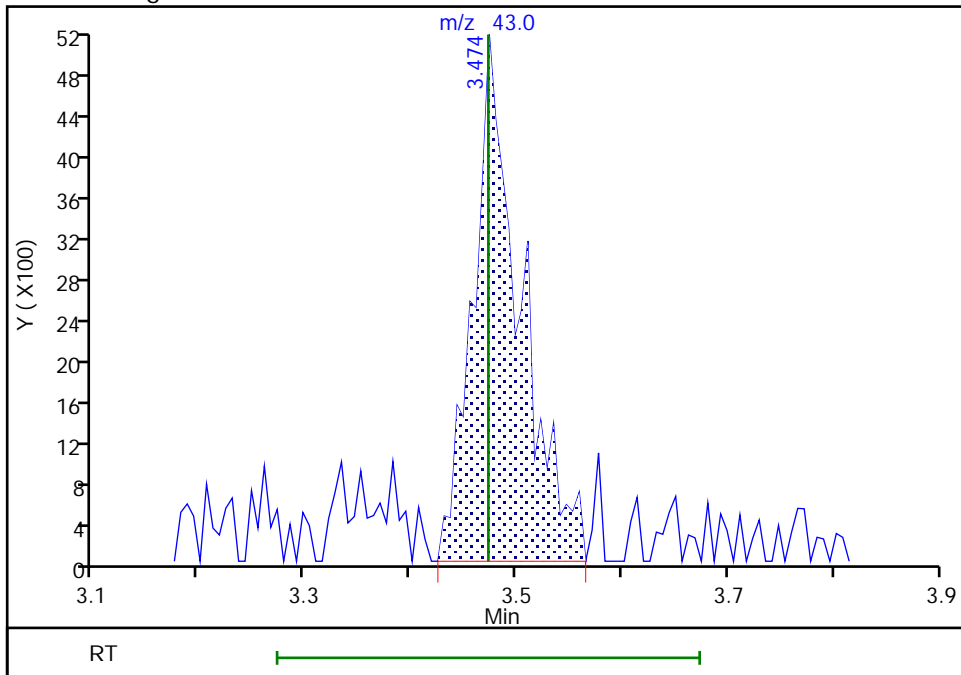
RT: 3.47  
Area: 11351  
Amount: 10.334405  
Amount Units: ng

Processing Integration Results



RT: 3.47  
Area: 15804  
Amount: 14.388594  
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 28-Jan-2020 09:42:38  
Audit Action: Manually Integrated

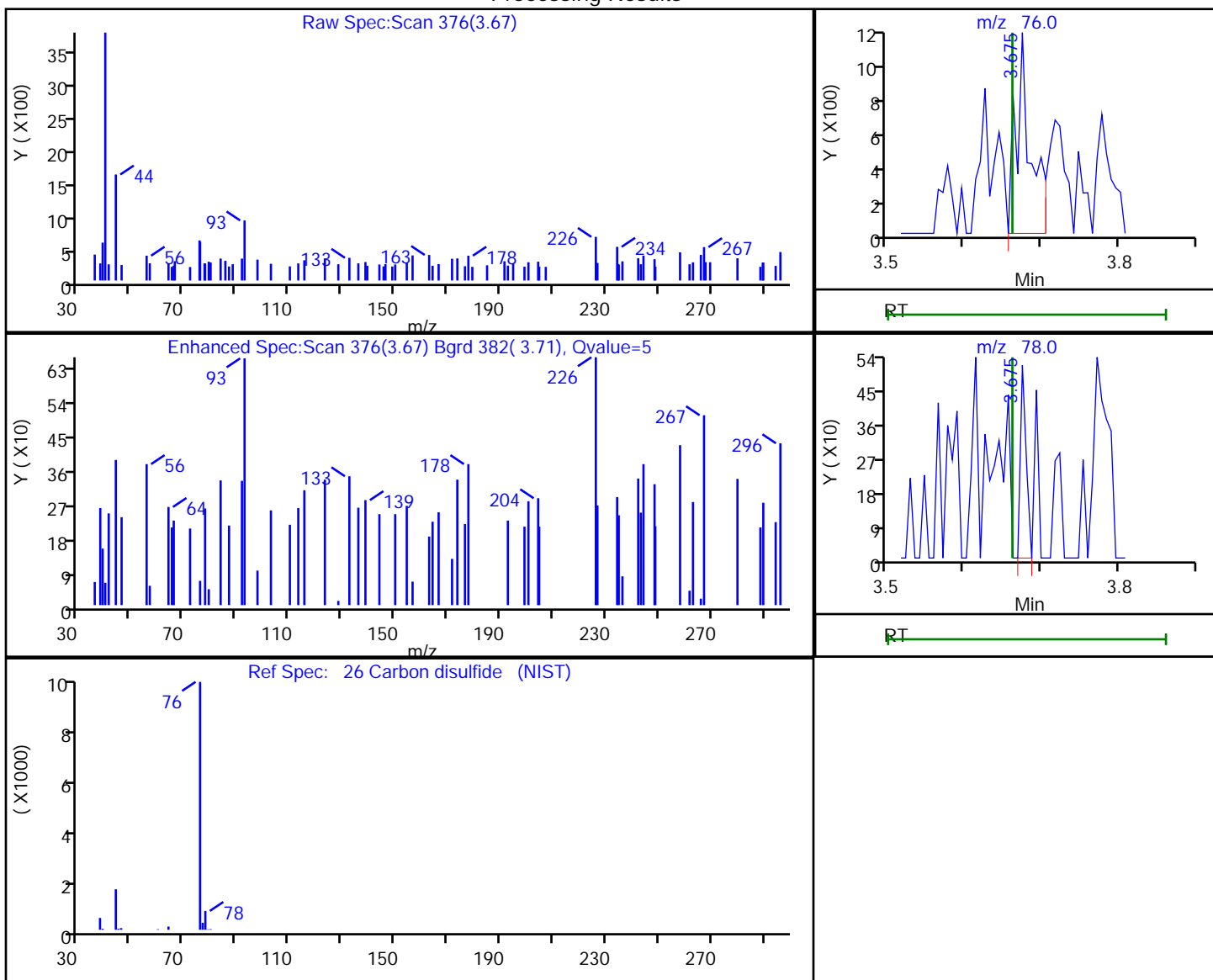
Audit Reason: Poor chromatography  
Page 597 of 880

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012518.D  
 Injection Date: 25-Jan-2020 18:26:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-12 Lab Sample ID: 180-101459-12  
 Client ID: HD-COD-SW-9-0/1-0  
 Operator ID: 433269 ALS Bottle#: 12 Worklist Smp#: 18  
 Purge Vol: 5.000 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
3.67	76.00	1557	0.321171
3.67	78.00	268	

Reviewer: bowieh, 28-Jan-2020 09:42:42

Audit Action: Marked Compound Undetected

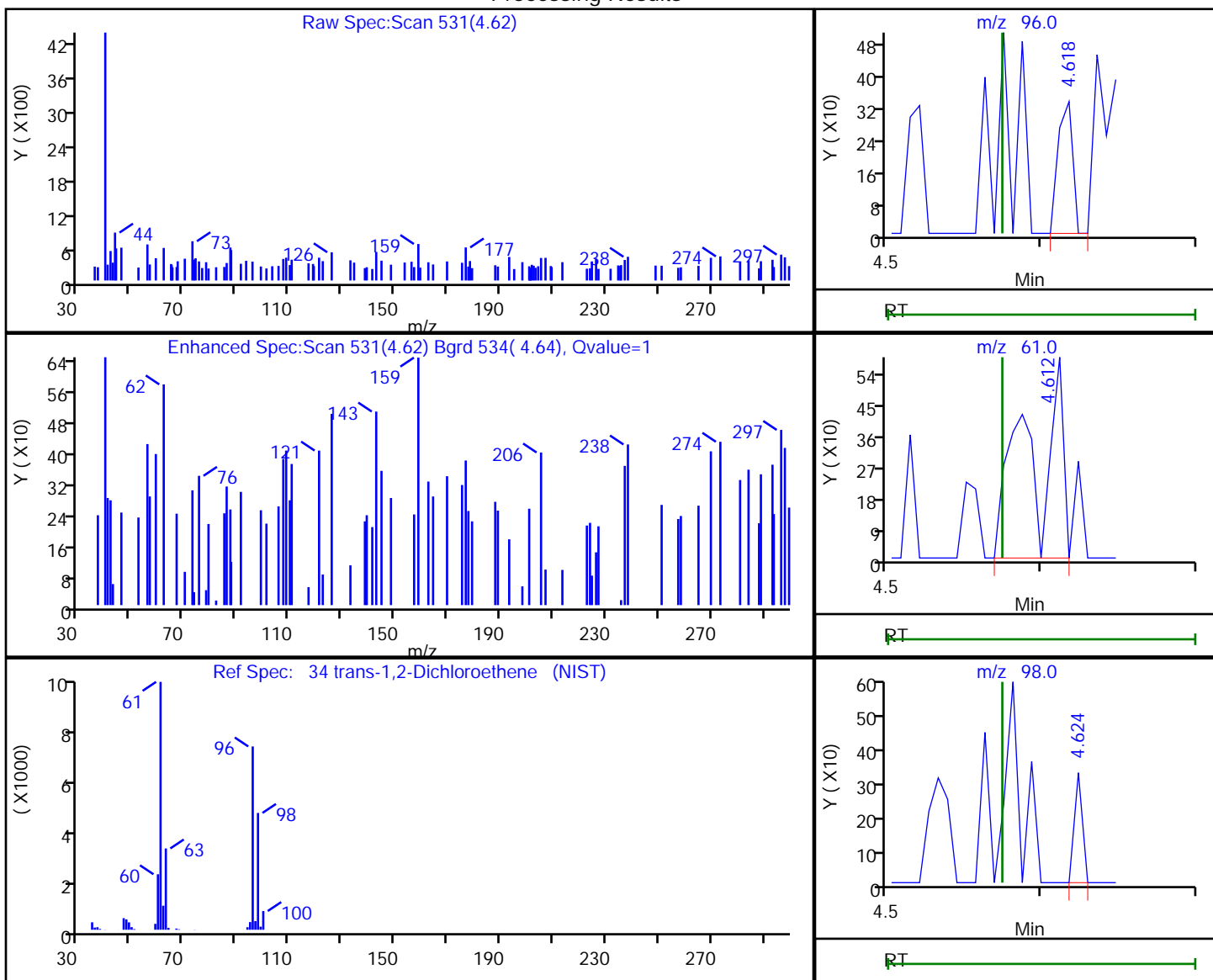
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Injection Date: 25-Jan-2020 18:26:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-12 Lab Sample ID: 180-101459-12  
 Client ID: HD-COD-SW-9-0/1-0  
 Operator ID: 433269 ALS Bottle#: 12 Worklist Smp#: 18  
 Purge Vol: 5.000 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
4.62	96.00	220	0.089805
4.61	61.00	845	
4.62	98.00	118	

Reviewer: bowieh, 28-Jan-2020 09:42:45

Audit Action: Marked Compound Undetected

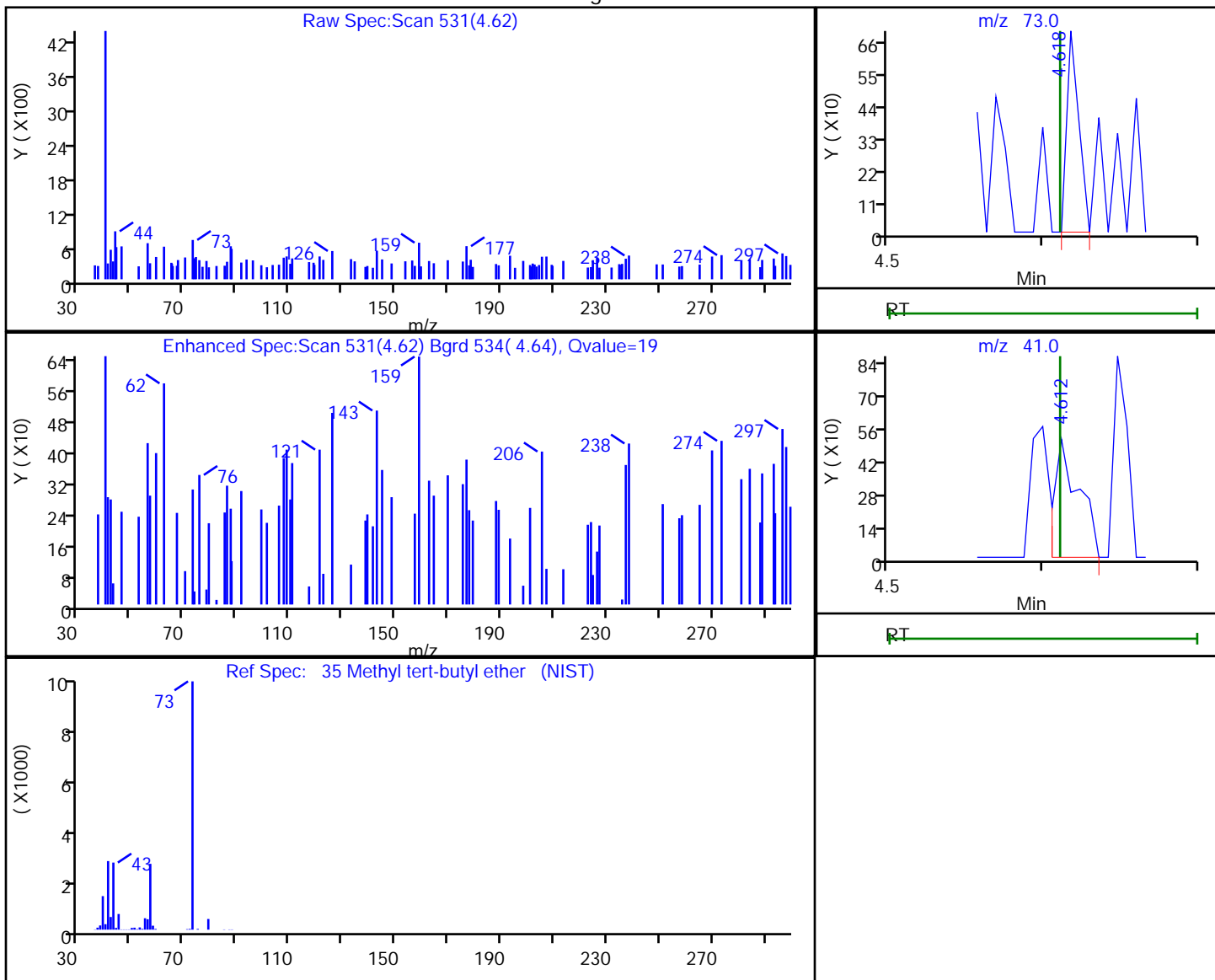
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012518.D  
 Injection Date: 25-Jan-2020 18:26:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-12 Lab Sample ID: 180-101459-12  
 Client ID: HD-COD-SW-9-0/1-0  
 Operator ID: 433269 ALS Bottle#: 12 Worklist Smp#: 18  
 Purge Vol: 5.000 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
4.62	73.00	377	0.079440
4.61	41.00	565	

Reviewer: bowieh, 28-Jan-2020 09:42:47

Audit Action: Marked Compound Undetected

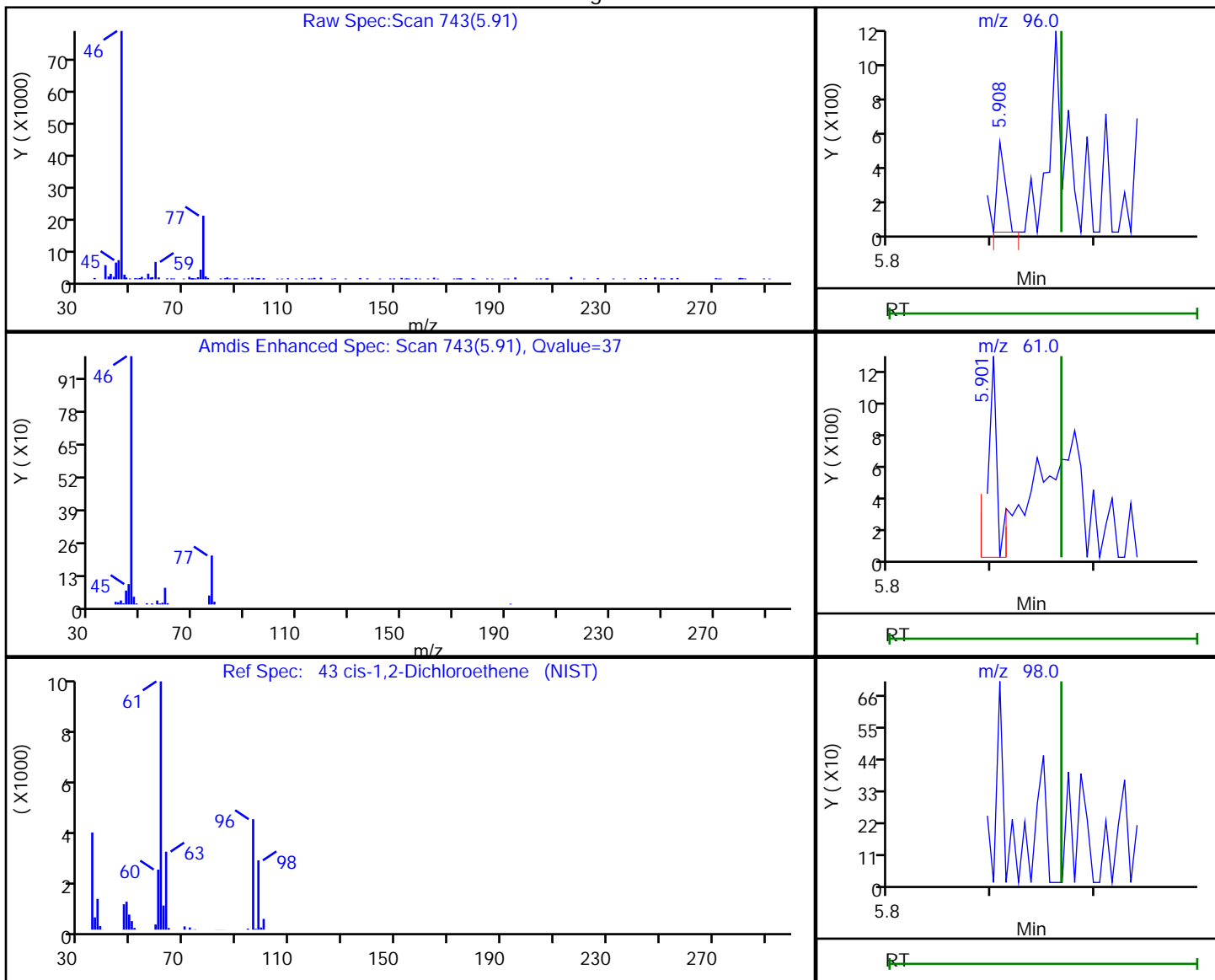
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Eurofins TestAmerica, Pittsburgh

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 Injection Date: 25-Jan-2020 18:26:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-12 Lab Sample ID: 180-101459-12  
 Client ID: HD-COD-SW-9-0/1-0  
 Operator ID: 433269 ALS Bottle#: 12 Worklist Smp#: 18  
 Purge Vol: 5.000 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
5.91	96.00	286	0.108428
5.90	61.00	732	
5.97	98.00	0	

Reviewer: bowieh, 28-Jan-2020 09:42:48

Audit Action: Marked Compound Undetected

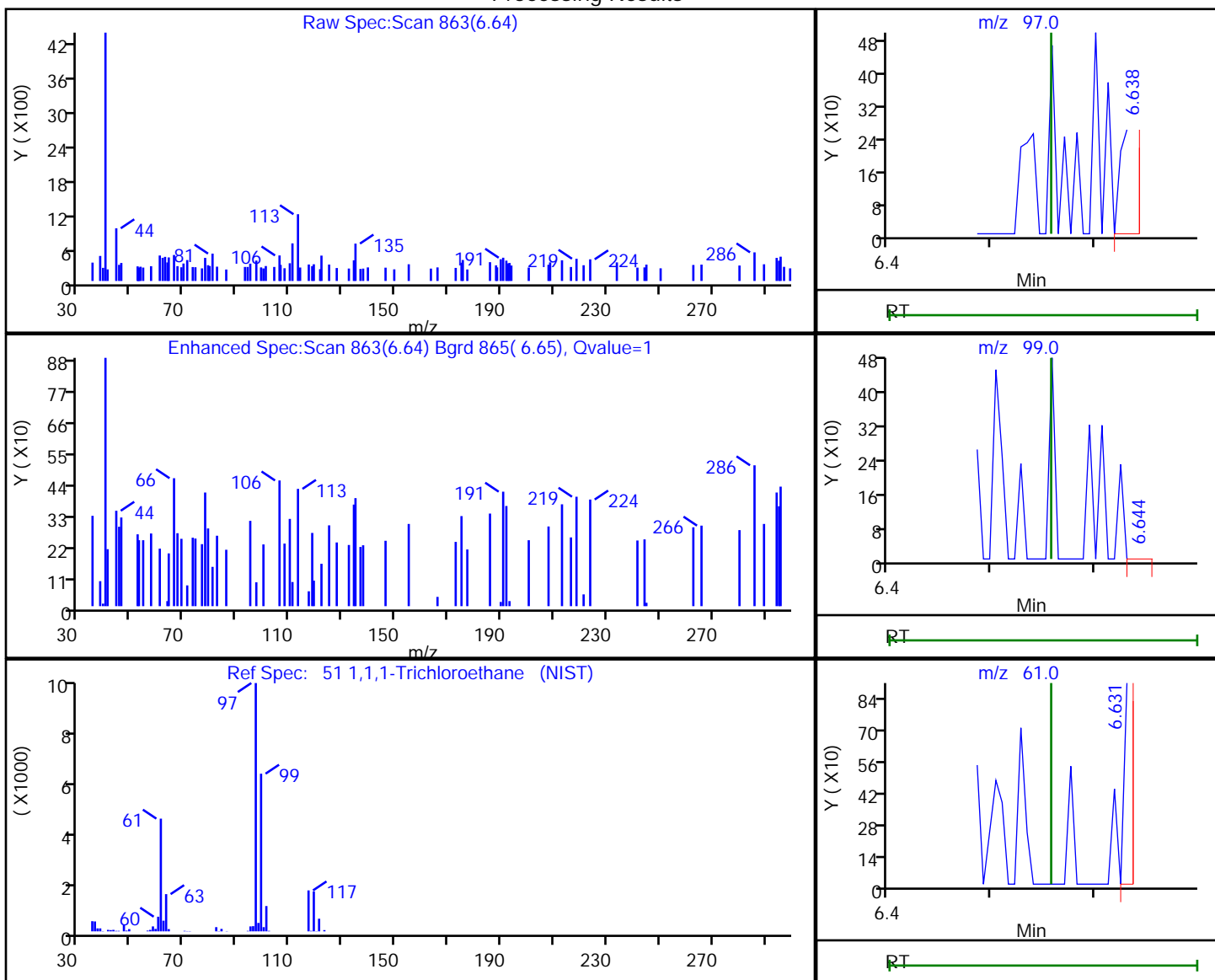
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012518.D  
 Injection Date: 25-Jan-2020 18:26:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-12 Lab Sample ID: 180-101459-12  
 Client ID: HD-COD-SW-9-0/1-0  
 Operator ID: 433269 ALS Bottle#: 12 Worklist Smp#: 18  
 Purge Vol: 5.000 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
6.64	97.00	298	0.098148
6.64	99.00	397	
6.63	61.00	331	

Reviewer: bowieh, 28-Jan-2020 09:42:58

Audit Action: Marked Compound Undetected

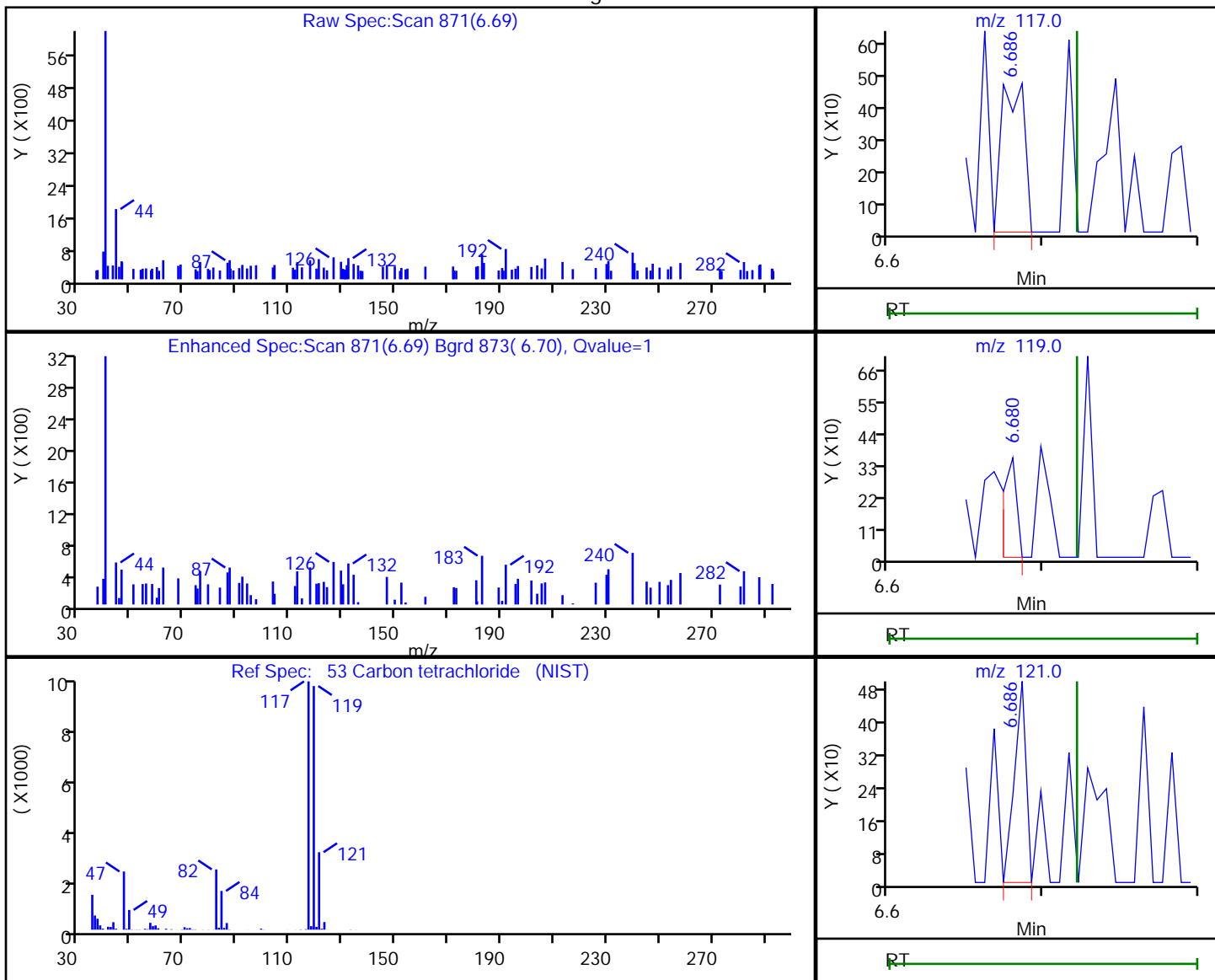
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012518.D  
 Injection Date: 25-Jan-2020 18:26:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-12 Lab Sample ID: 180-101459-12  
 Client ID: HD-COD-SW-9-0/1-0  
 Operator ID: 433269 ALS Bottle#: 12 Worklist Smp#: 18  
 Purge Vol: 5.000 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
6.69	117.00	482	0.188760
6.68	119.00	211	
6.69	121.00	260	

Reviewer: bowieh, 28-Jan-2020 09:42:59

Audit Action: Marked Compound Undetected

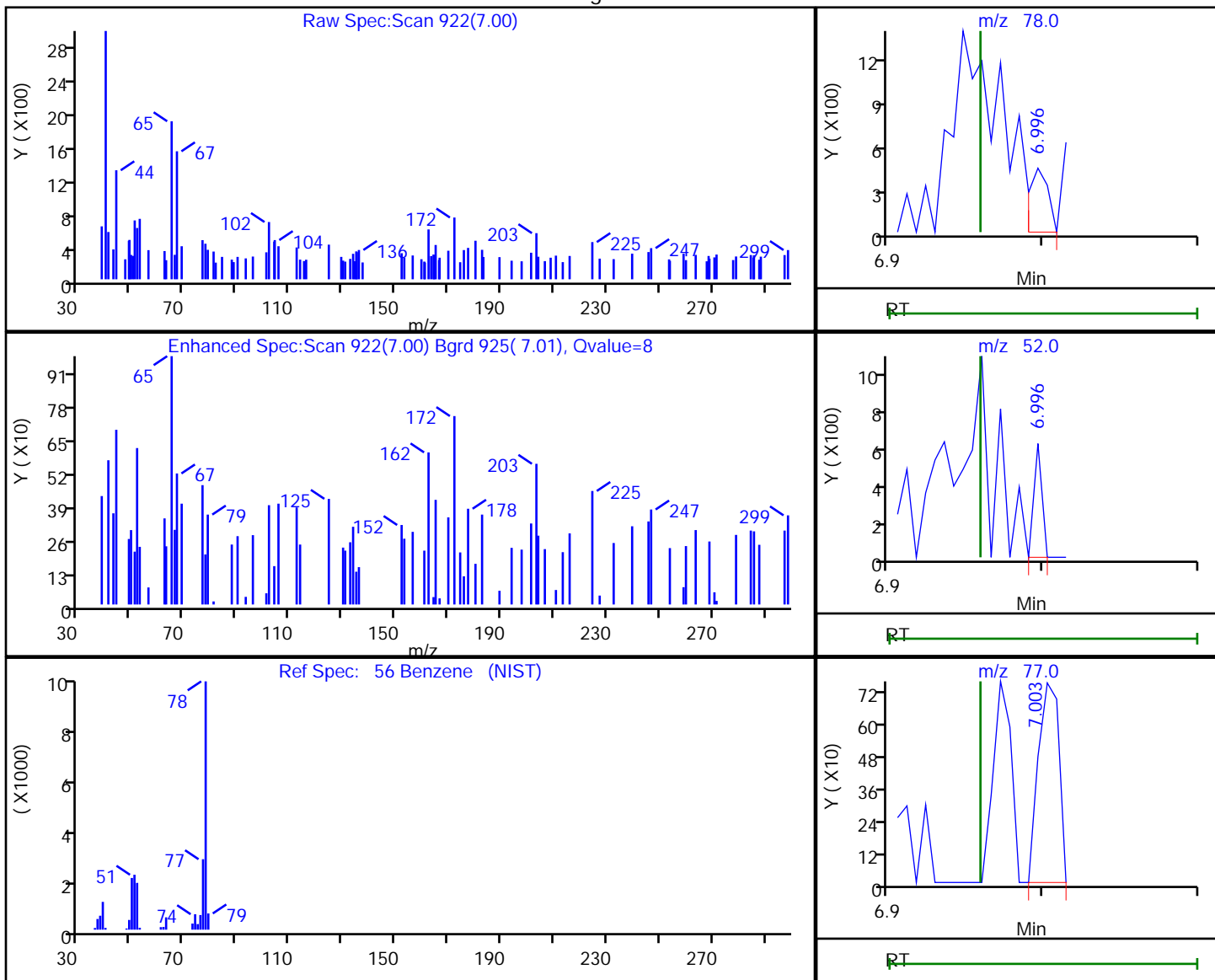
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Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012518.D  
 Injection Date: 25-Jan-2020 18:26:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-12 Lab Sample ID: 180-101459-12  
 Client ID: HD-COD-SW-9-0/1-0  
 Operator ID: 433269 ALS Bottle#: 12 Worklist Smp#: 18  
 Purge Vol: 5.000 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
7.00	78.00	367	0.037734
7.00	52.00	225	
7.00	77.00	694	

Reviewer: bowieh, 28-Jan-2020 09:43:06

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

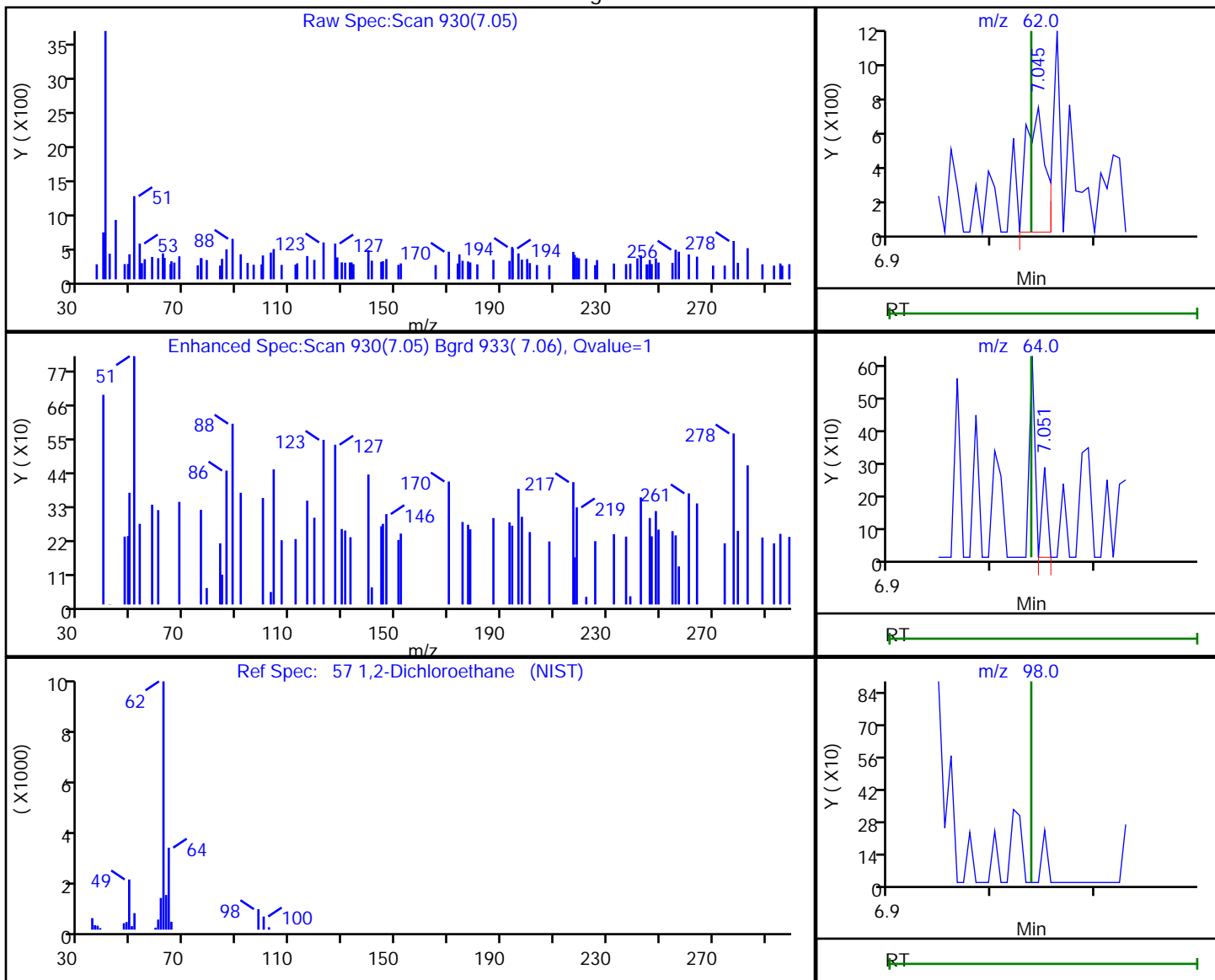


Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012518.D  
 Injection Date: 25-Jan-2020 18:26:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-12 Lab Sample ID: 180-101459-12  
 Client ID: HD-COD-SW-9-0/1-0  
 Operator ID: 433269 ALS Bottle#: 12 Worklist Smp#: 18  
 Purge Vol: 5.000 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
7.05	62.00	890	0.332247
7.05	64.00	102	
7.04	98.00	0	

Reviewer: bowieh, 28-Jan-2020 09:43:07

Audit Action: Marked Compound Undetected

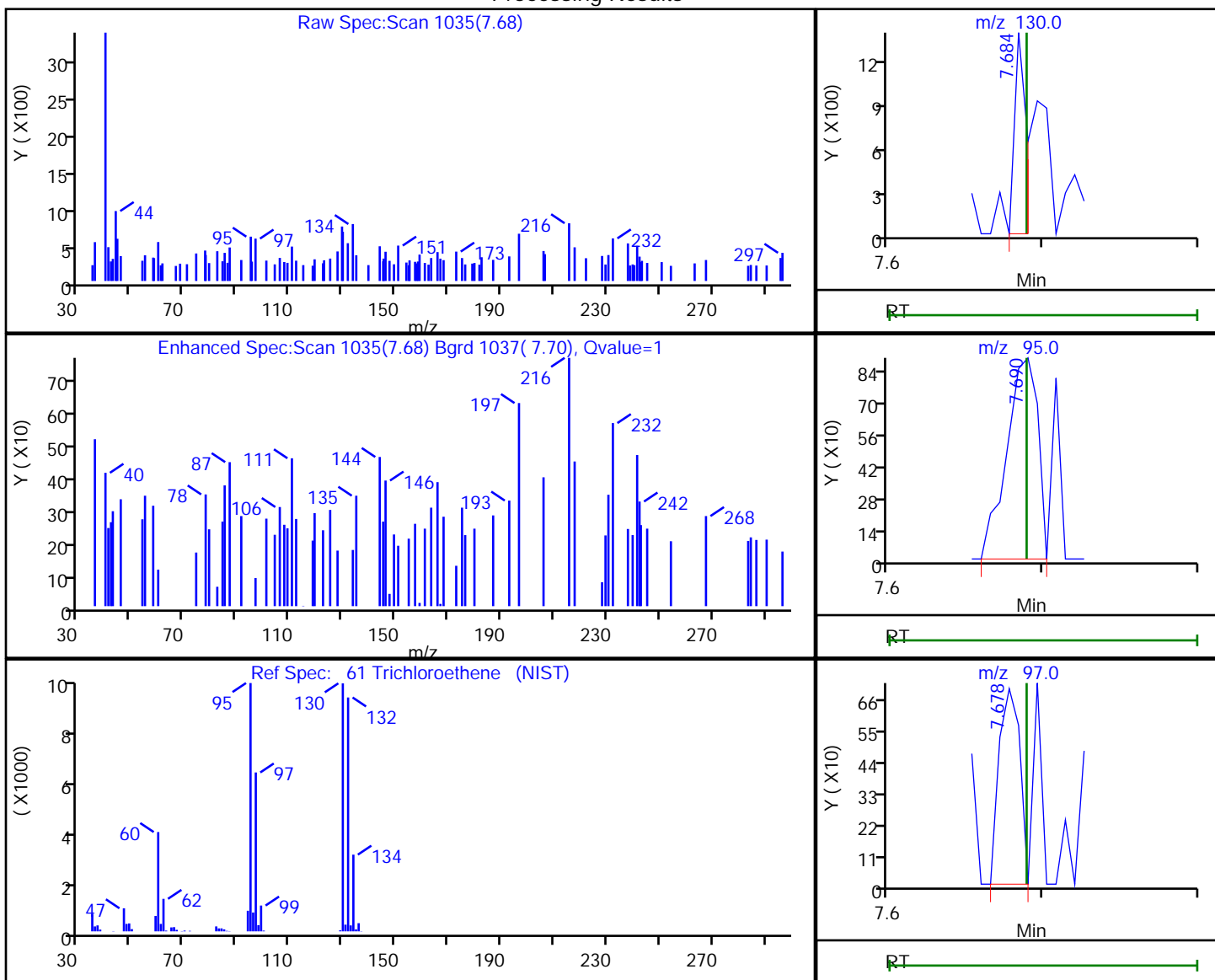
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Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012518.D  
 Injection Date: 25-Jan-2020 18:26:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-12 Lab Sample ID: 180-101459-12  
 Client ID: HD-COD-SW-9-0/1-0  
 Operator ID: 433269 ALS Bottle#: 12 Worklist Smp#: 18  
 Purge Vol: 5.000 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
7.68	130.00	736	0.255291
7.69	95.00	1257	
7.68	97.00	651	

Reviewer: bowieh, 28-Jan-2020 09:43:08

Audit Action: Marked Compound Undetected

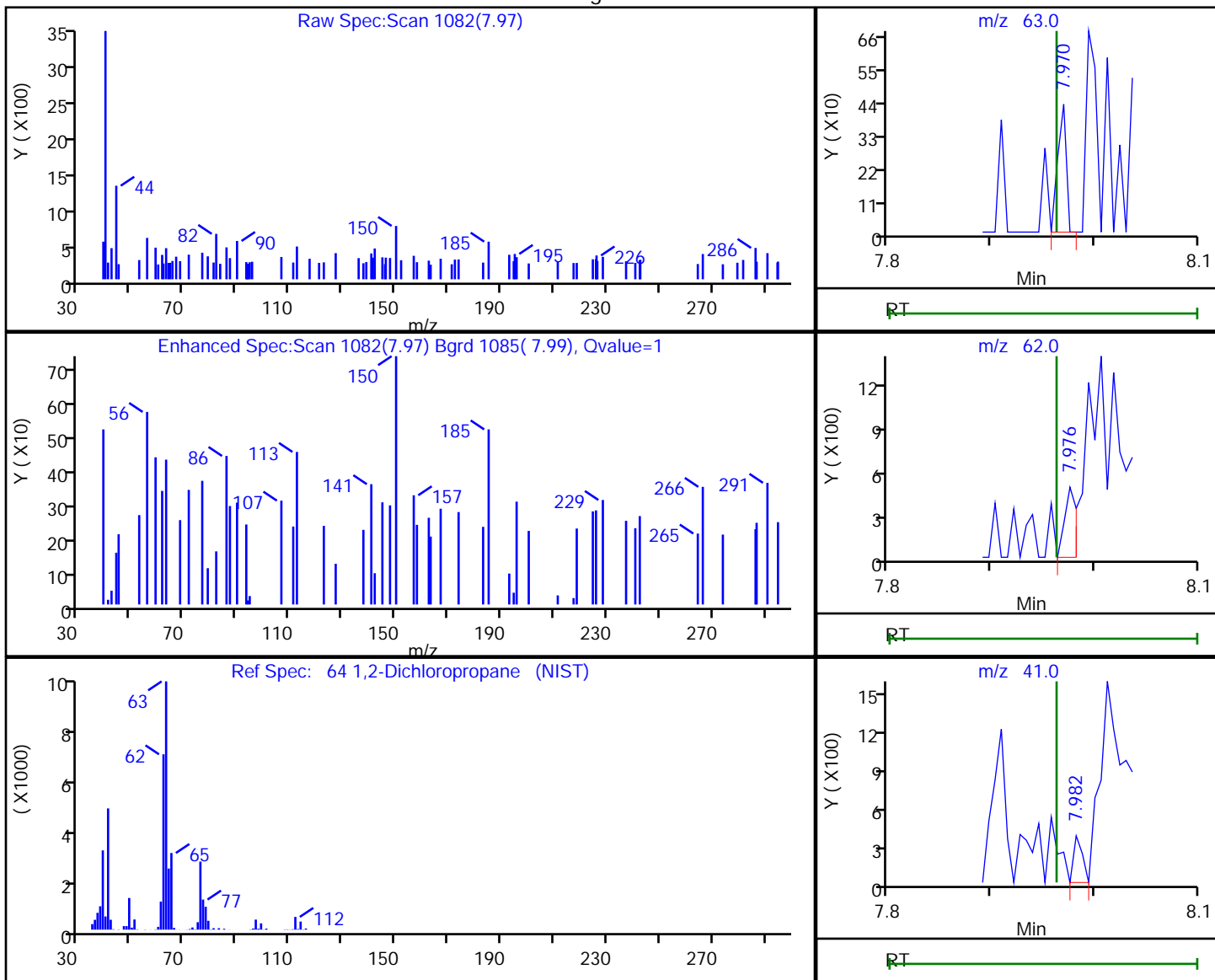
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Eurofins TestAmerica, Pittsburgh

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 Injection Date: 25-Jan-2020 18:26:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-12 Lab Sample ID: 180-101459-12  
 Client ID: HD-COD-SW-9-0/1-0  
 Operator ID: 433269 ALS Bottle#: 12 Worklist Smp#: 18  
 Purge Vol: 5.000 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
7.97	63.00	247	0.108489
7.98	62.00	364	
7.98	41.00	209	

Reviewer: bowieh, 28-Jan-2020 09:43:09

Audit Action: Marked Compound Undetected

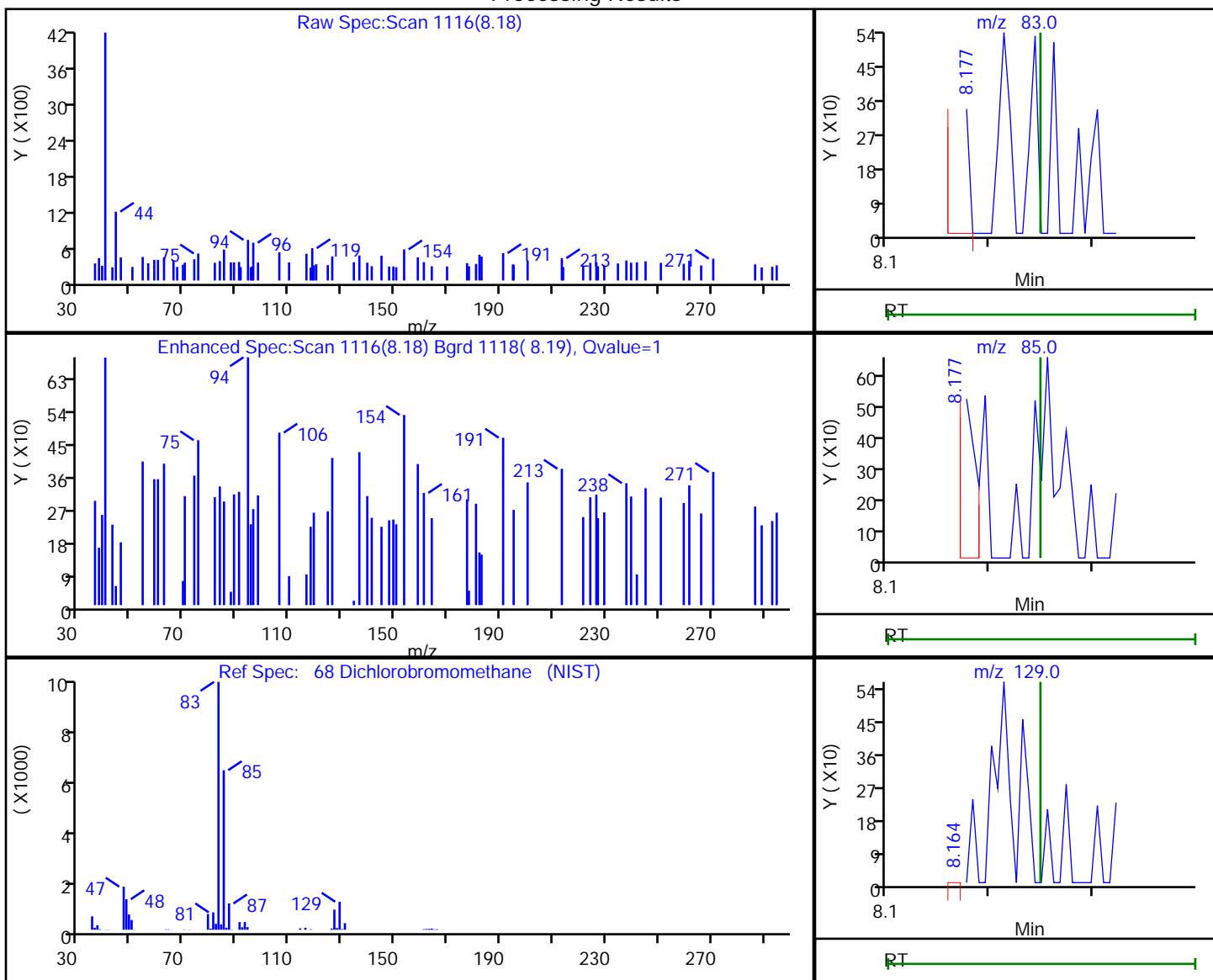
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012518.D  
 Injection Date: 25-Jan-2020 18:26:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-12 Lab Sample ID: 180-101459-12  
 Client ID: HD-COD-SW-9-0/1-0  
 Operator ID: 433269 ALS Bottle#: 12 Worklist Smp#: 18  
 Purge Vol: 5.000 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
8.18	83.00	288	0.135327
8.18	85.00	414	
8.16	129.00	88	

Reviewer: bowieh, 28-Jan-2020 09:43:11

Audit Action: Marked Compound Undetected

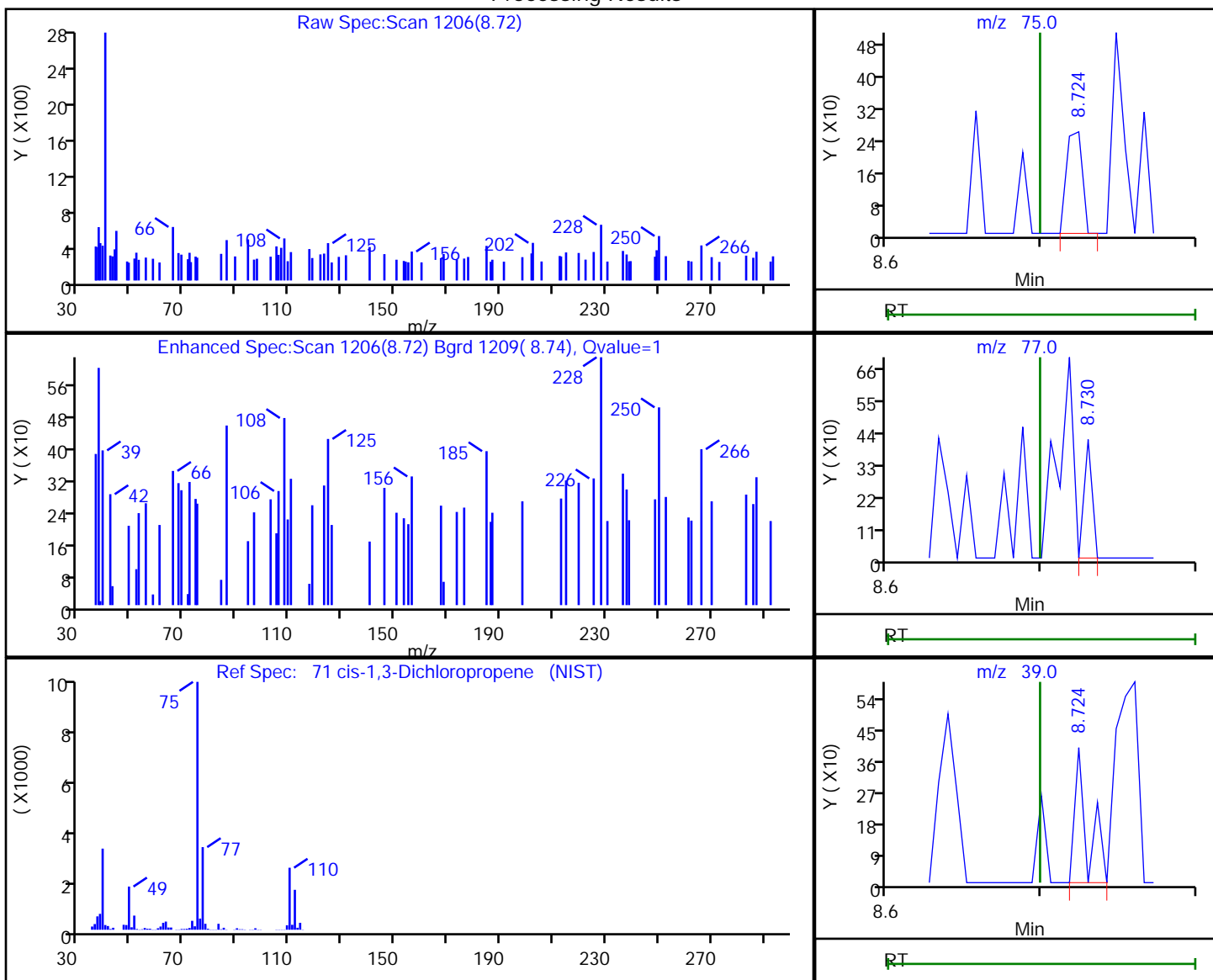
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012518.D  
 Injection Date: 25-Jan-2020 18:26:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-12 Lab Sample ID: 180-101459-12  
 Client ID: HD-COD-SW-9-0/1-0  
 Operator ID: 433269 ALS Bottle#: 12 Worklist Smp#: 18  
 Purge Vol: 5.000 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
8.72	75.00	183	0.066494
8.73	77.00	151	
8.72	39.00	228	

Reviewer: bowieh, 28-Jan-2020 09:43:12

Audit Action: Marked Compound Undetected

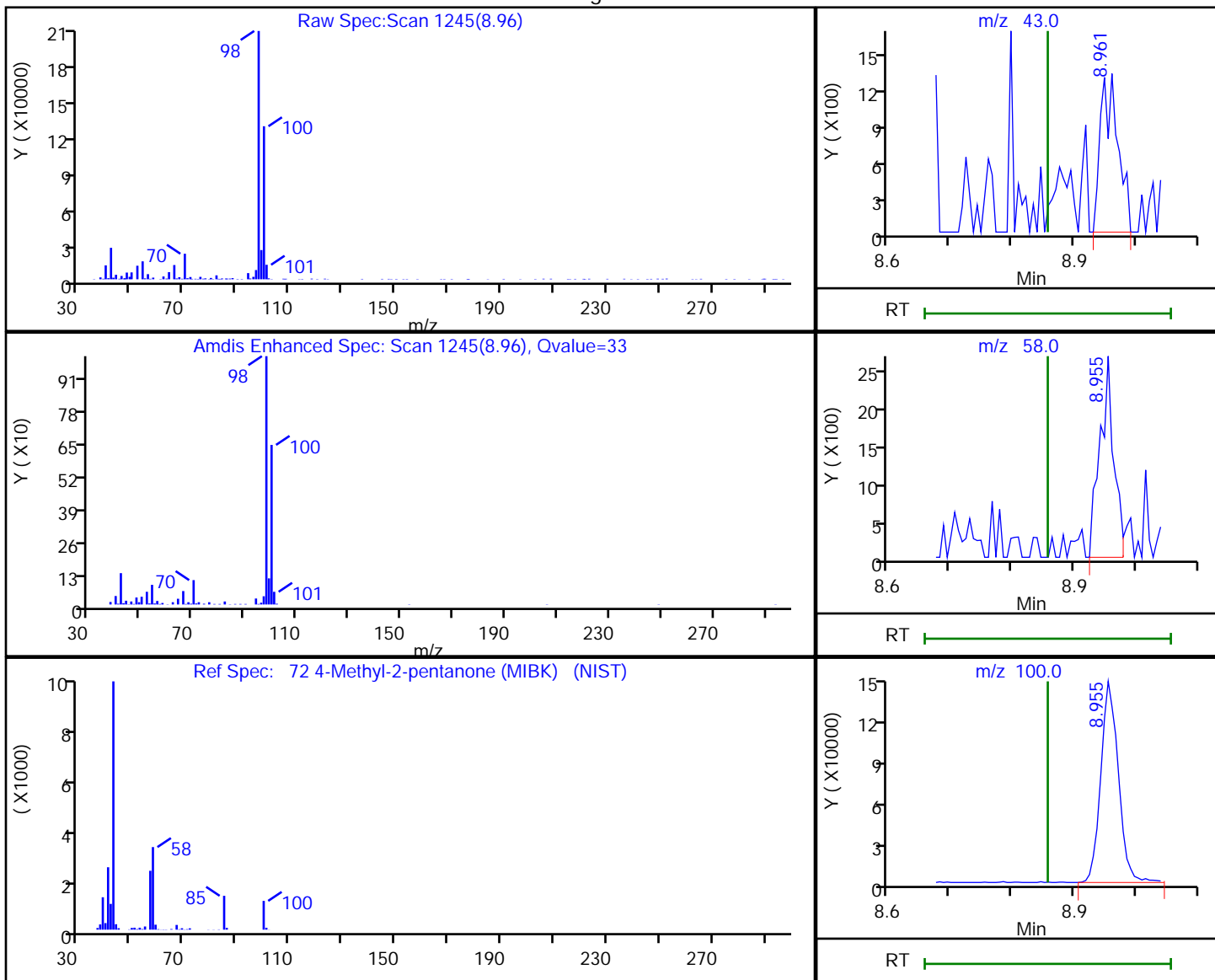
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Eurofins TestAmerica, Pittsburgh

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 Injection Date: 25-Jan-2020 18:26:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-12 Lab Sample ID: 180-101459-12  
 Client ID: HD-COD-SW-9-0/1-0  
 Operator ID: 433269 ALS Bottle#: 12 Worklist Smp#: 18  
 Purge Vol: 5.000 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	2596	1.196164
8.96	58.00	4141	
8.96	100.00	292388	

Reviewer: bowieh, 28-Jan-2020 09:43:13

Audit Action: Marked Compound Undetected

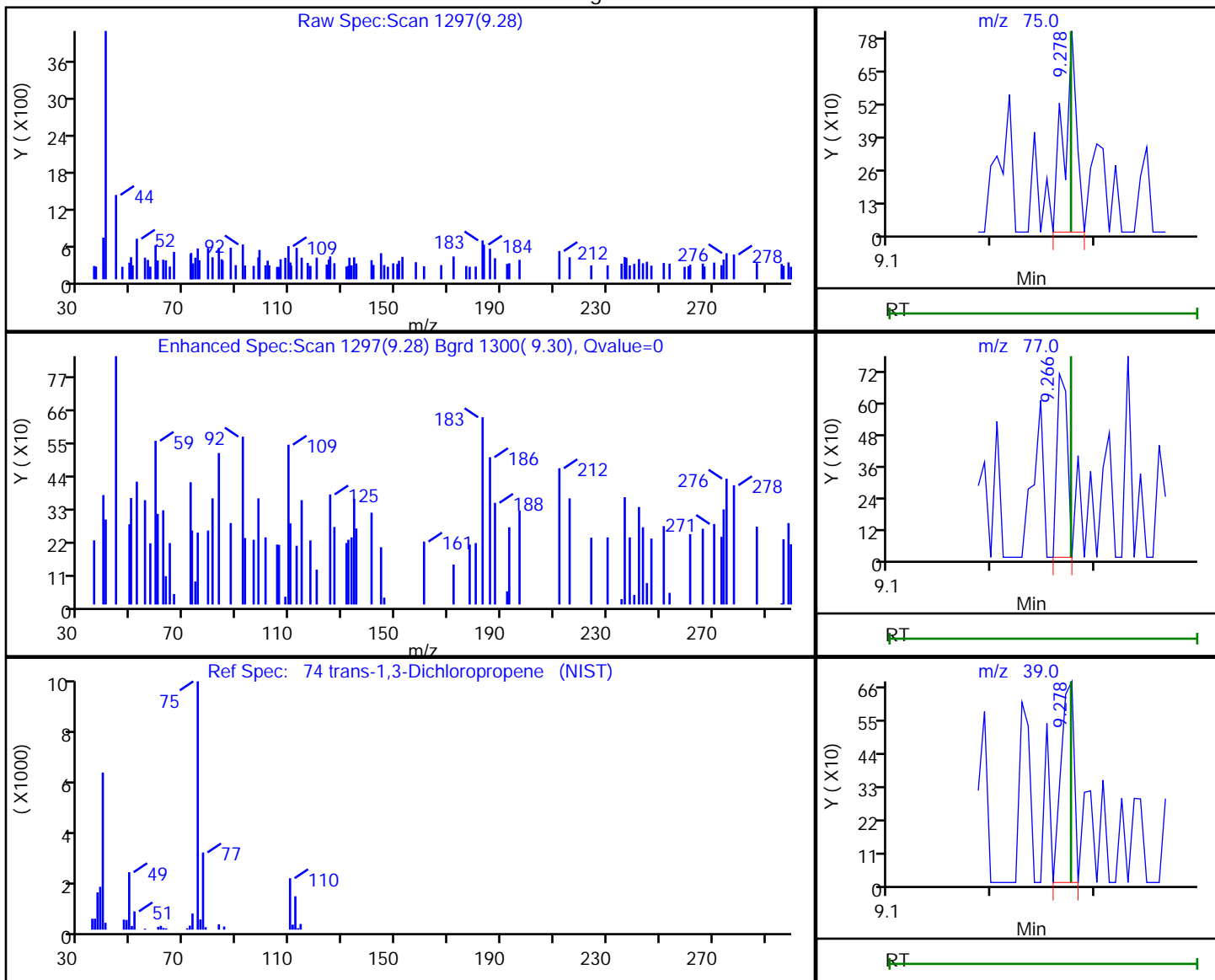
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Injection Date: 25-Jan-2020 18:26:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-12 Lab Sample ID: 180-101459-12  
 Client ID: HD-COD-SW-9-0/1-0  
 Operator ID: 433269 ALS Bottle#: 12 Worklist Smp#: 18  
 Purge Vol: 5.000 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
9.28	75.00	676	0.268048
9.27	77.00	491	
9.28	39.00	592	

Reviewer: bowieh, 28-Jan-2020 09:43:15

Audit Action: Marked Compound Undetected

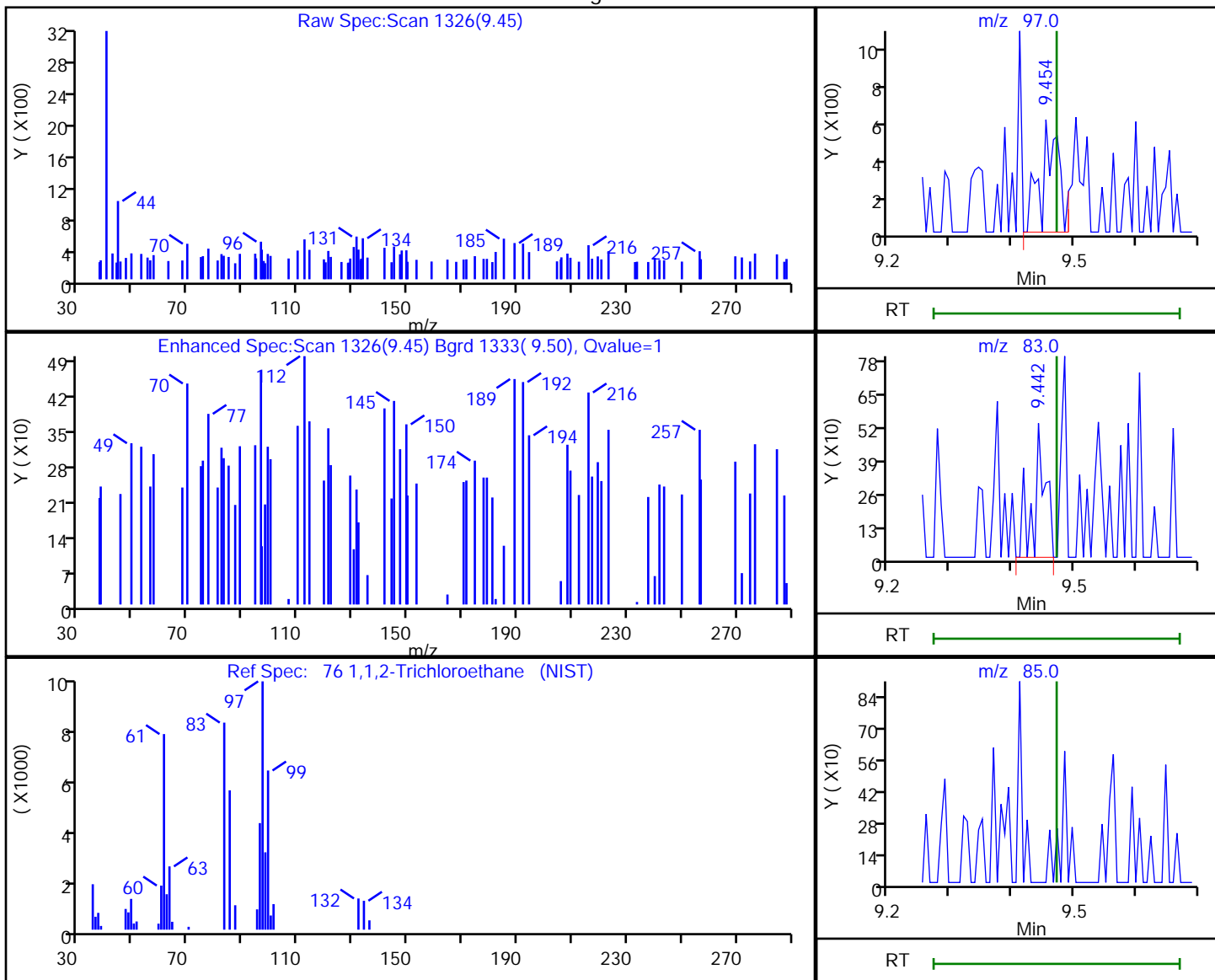
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012518.D  
 Injection Date: 25-Jan-2020 18:26:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-12 Lab Sample ID: 180-101459-12  
 Client ID: HD-COD-SW-9-0/1-0  
 Operator ID: 433269 ALS Bottle#: 12 Worklist Smp#: 18  
 Purge Vol: 5.000 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
9.45	97.00	1205	0.574182
9.44	83.00	706	
9.47	85.00	0	

Reviewer: bowieh, 28-Jan-2020 09:43:16

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

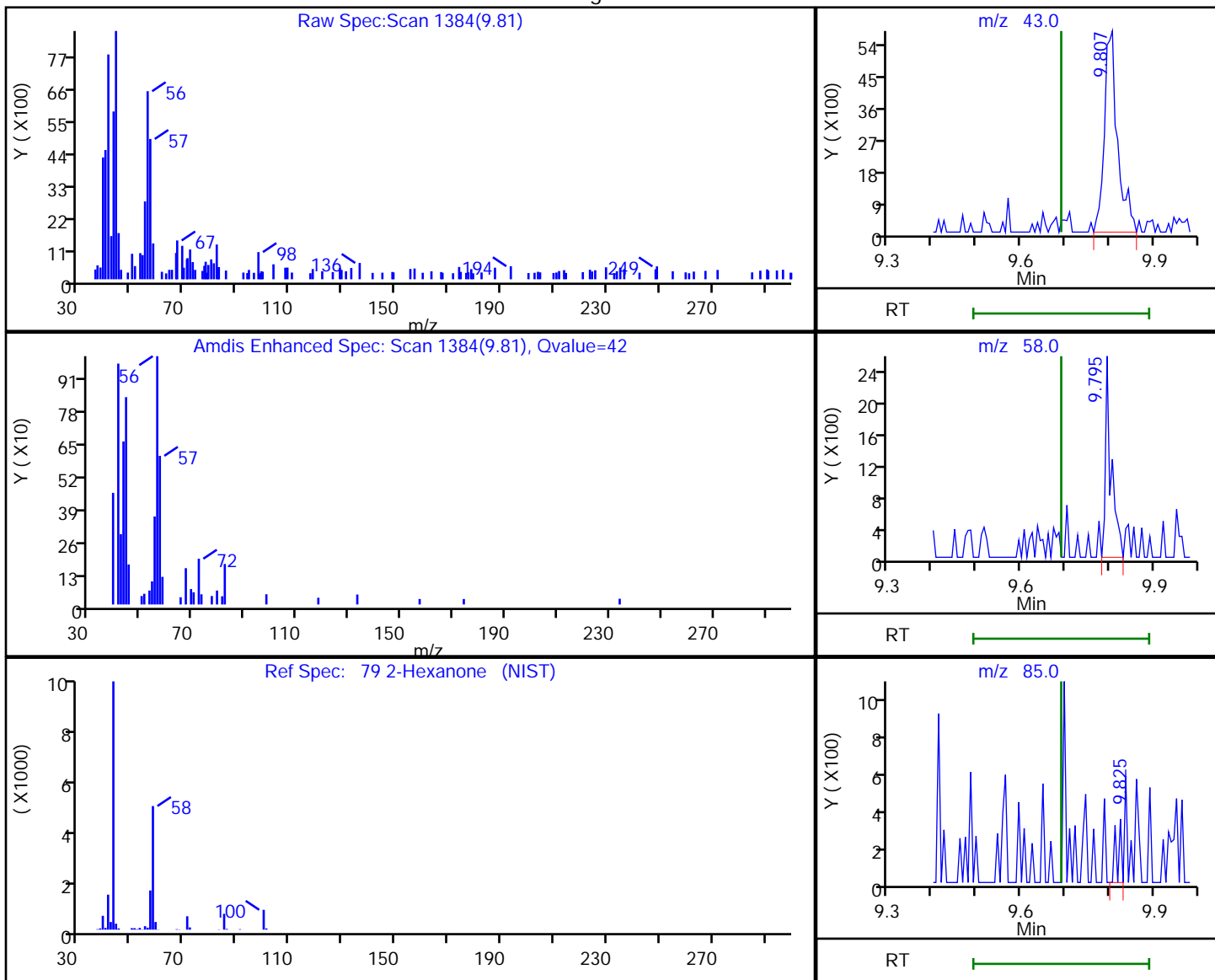


Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012518.D  
 Injection Date: 25-Jan-2020 18:26:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-12 Lab Sample ID: 180-101459-12  
 Client ID: HD-COD-SW-9-0/1-0  
 Operator ID: 433269 ALS Bottle#: 12 Worklist Smp#: 18  
 Purge Vol: 5.000 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
9.81	43.00	11993	6.415124
9.79	58.00	2304	
9.83	85.00	235	

Reviewer: bowieh, 28-Jan-2020 09:43:19

Audit Action: Marked Compound Undetected

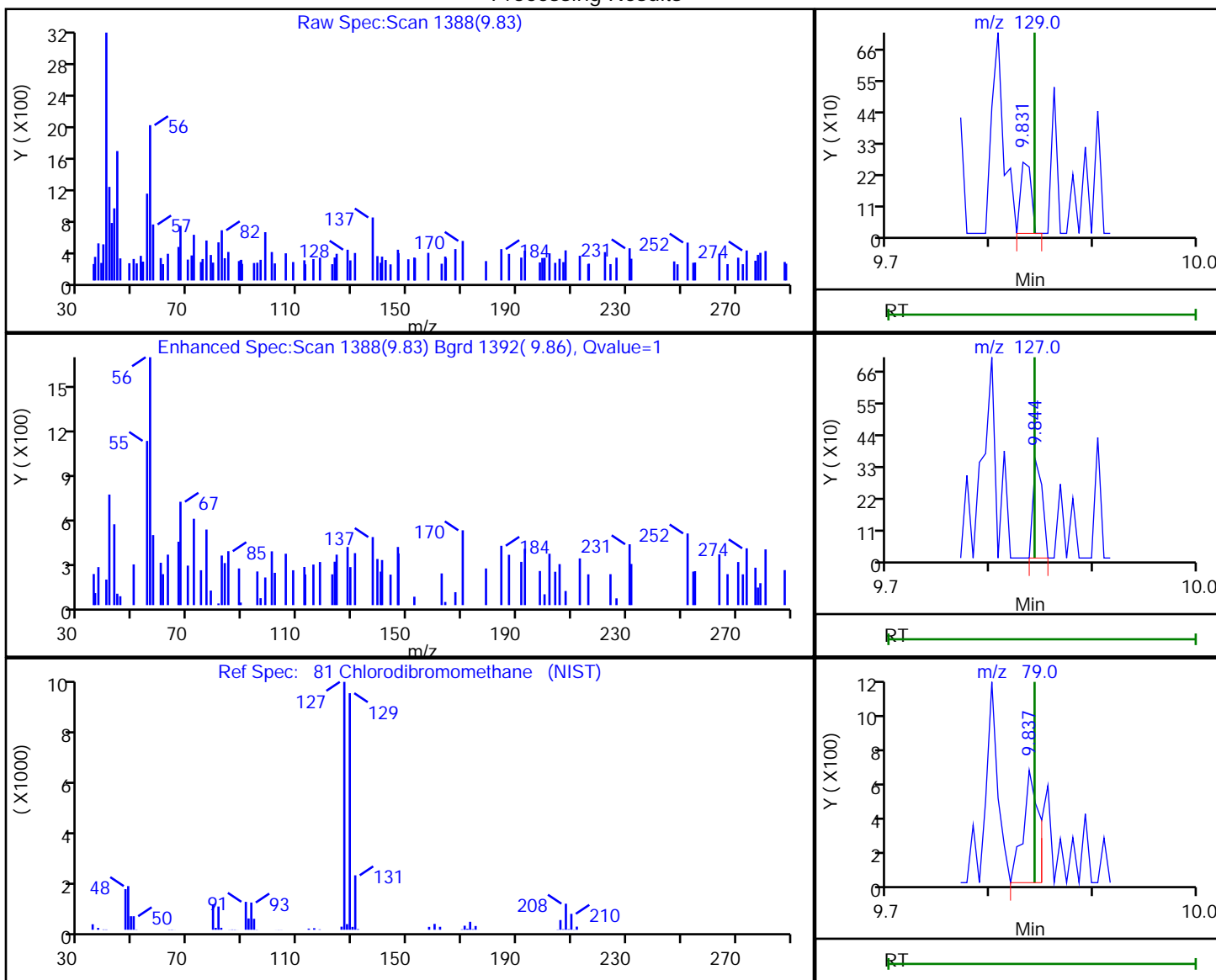
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012518.D  
 Injection Date: 25-Jan-2020 18:26:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-12 Lab Sample ID: 180-101459-12  
 Client ID: HD-COD-SW-9-0/1-0  
 Operator ID: 433269 ALS Bottle#: 12 Worklist Smp#: 18  
 Purge Vol: 5.000 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
9.83	129.00	178	0.100425
9.84	127.00	218	
9.84	79.00	695	

Reviewer: bowieh, 28-Jan-2020 09:43:20

Audit Action: Marked Compound Undetected

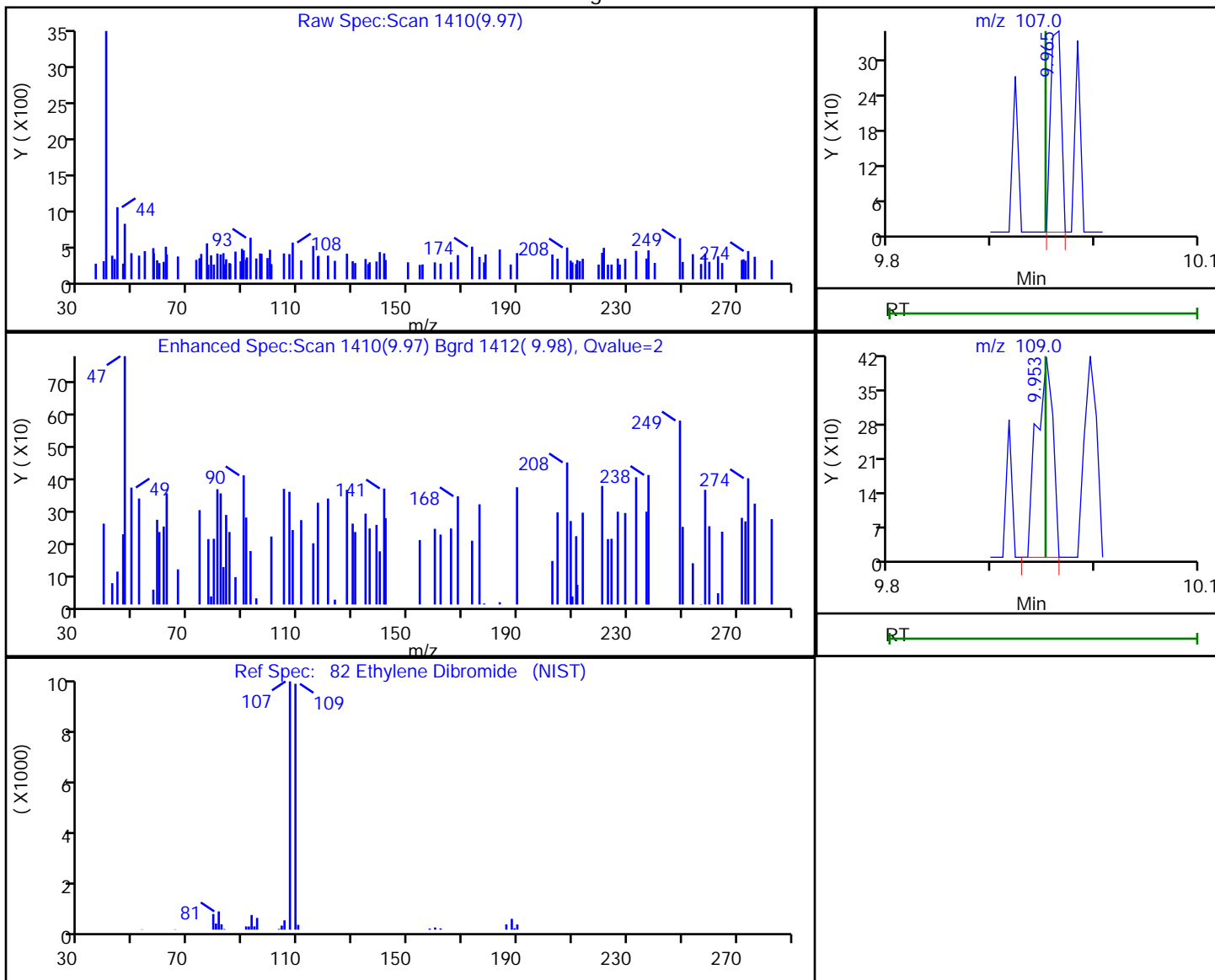
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Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012518.D  
Injection Date: 25-Jan-2020 18:26:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-12 Lab Sample ID: 180-101459-12  
Client ID: HD-COD-SW-9-0/1-0  
Operator ID: 433269 ALS Bottle#: 12 Worklist Smp#: 18  
Purge Vol: 5.000 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	252	0.121670
9.95	109.00	450	

Reviewer: bowieh, 28-Jan-2020 09:43:21

Audit Action: Marked Compound Undetected

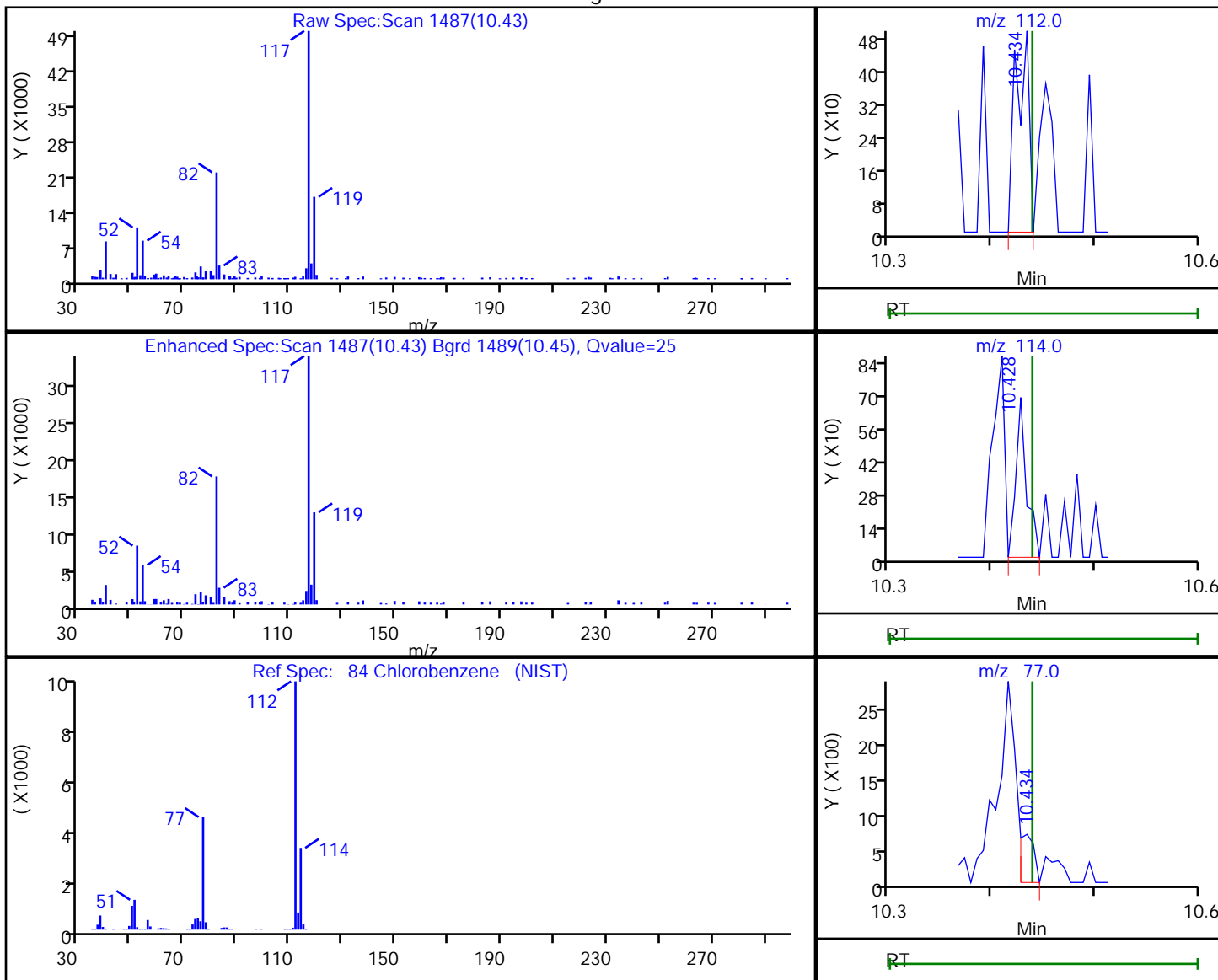
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012518.D  
 Injection Date: 25-Jan-2020 18:26:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-12 Lab Sample ID: 180-101459-12  
 Client ID: HD-COD-SW-9-0/1-0  
 Operator ID: 433269 ALS Bottle#: 12 Worklist Smp#: 18  
 Purge Vol: 5.000 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	441	0.057352
10.43	114.00	497	
10.43	77.00	689	

Reviewer: bowieh, 28-Jan-2020 09:43:22

Audit Action: Marked Compound Undetected

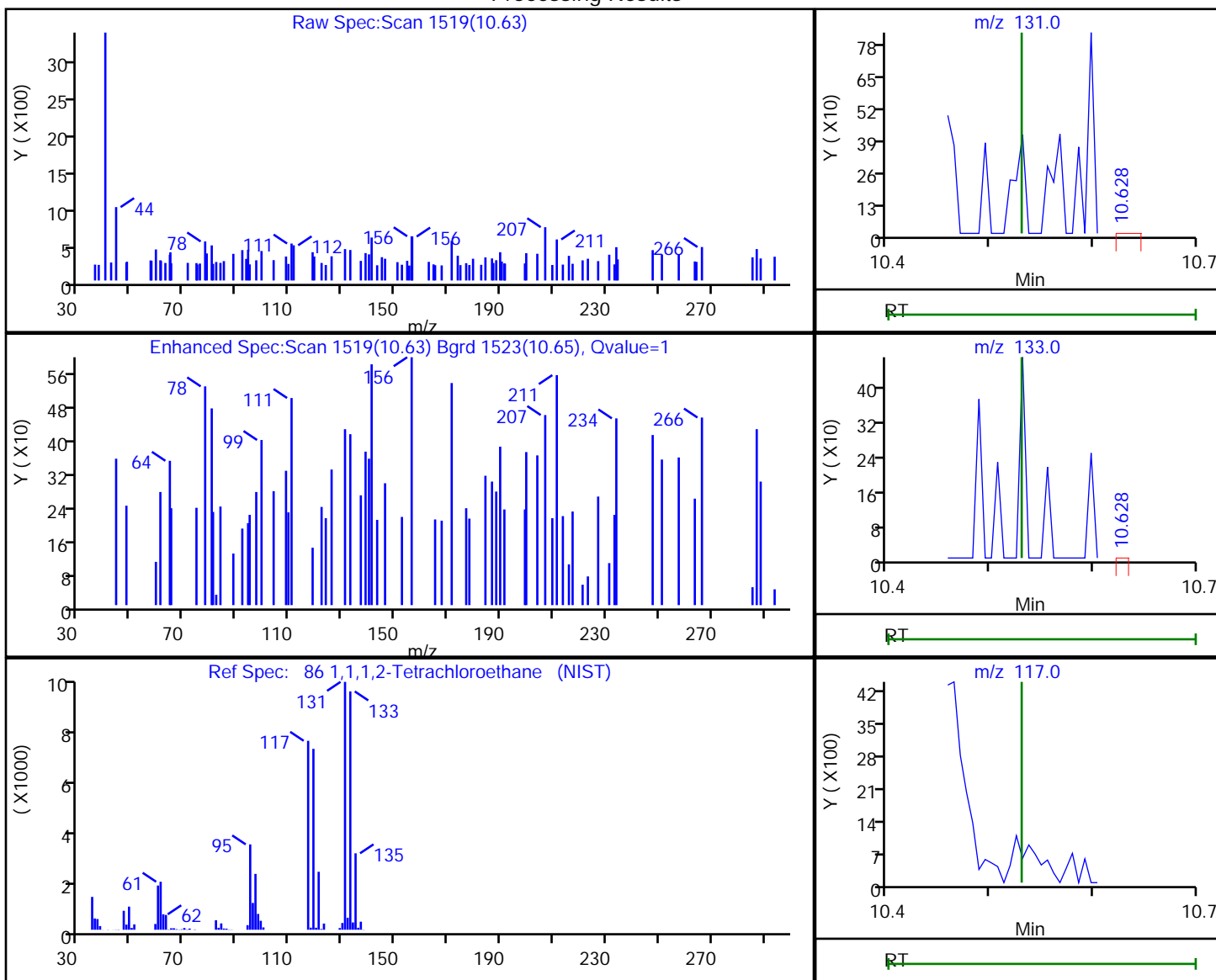
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Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012518.D  
 Injection Date: 25-Jan-2020 18:26:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-12 Lab Sample ID: 180-101459-12  
 Client ID: HD-COD-SW-9-0/1-0  
 Operator ID: 433269 ALS Bottle#: 12 Worklist Smp#: 18  
 Purge Vol: 5.000 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
10.63	131.00	272	0.120425
10.63	133.00	252	
10.53	117.00	0	

Reviewer: bowieh, 28-Jan-2020 09:43:24

Audit Action: Marked Compound Undetected

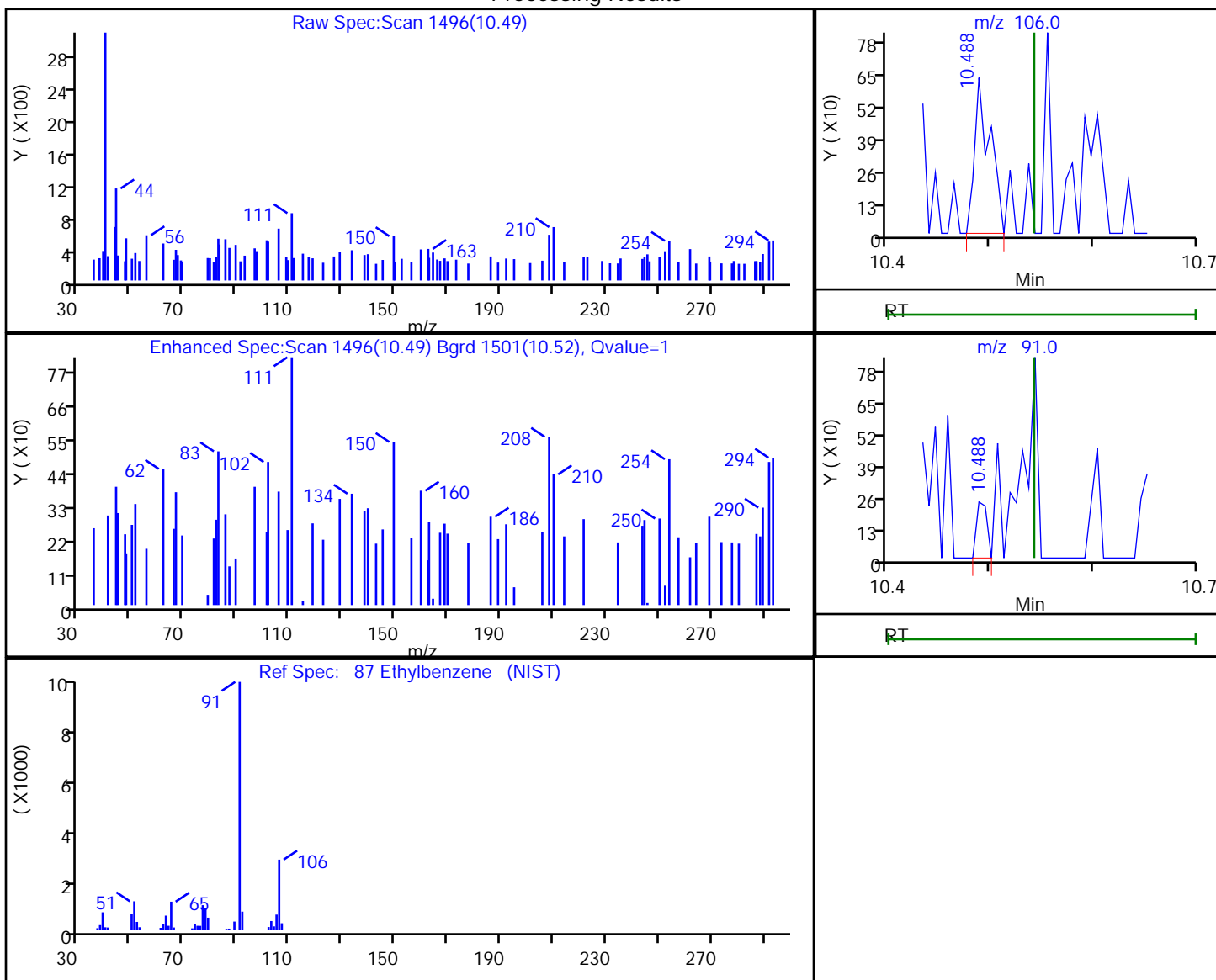
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012518.D  
Injection Date: 25-Jan-2020 18:26:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-12 Lab Sample ID: 180-101459-12  
Client ID: HD-COD-SW-9-0/1-0  
Operator ID: 433269 ALS Bottle#: 12 Worklist Smp#: 18  
Purge Vol: 5.000 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
10.49	106.00	666	0.151350
10.49	91.00	164	

Reviewer: bowieh, 28-Jan-2020 09:43:25

Audit Action: Marked Compound Undetected

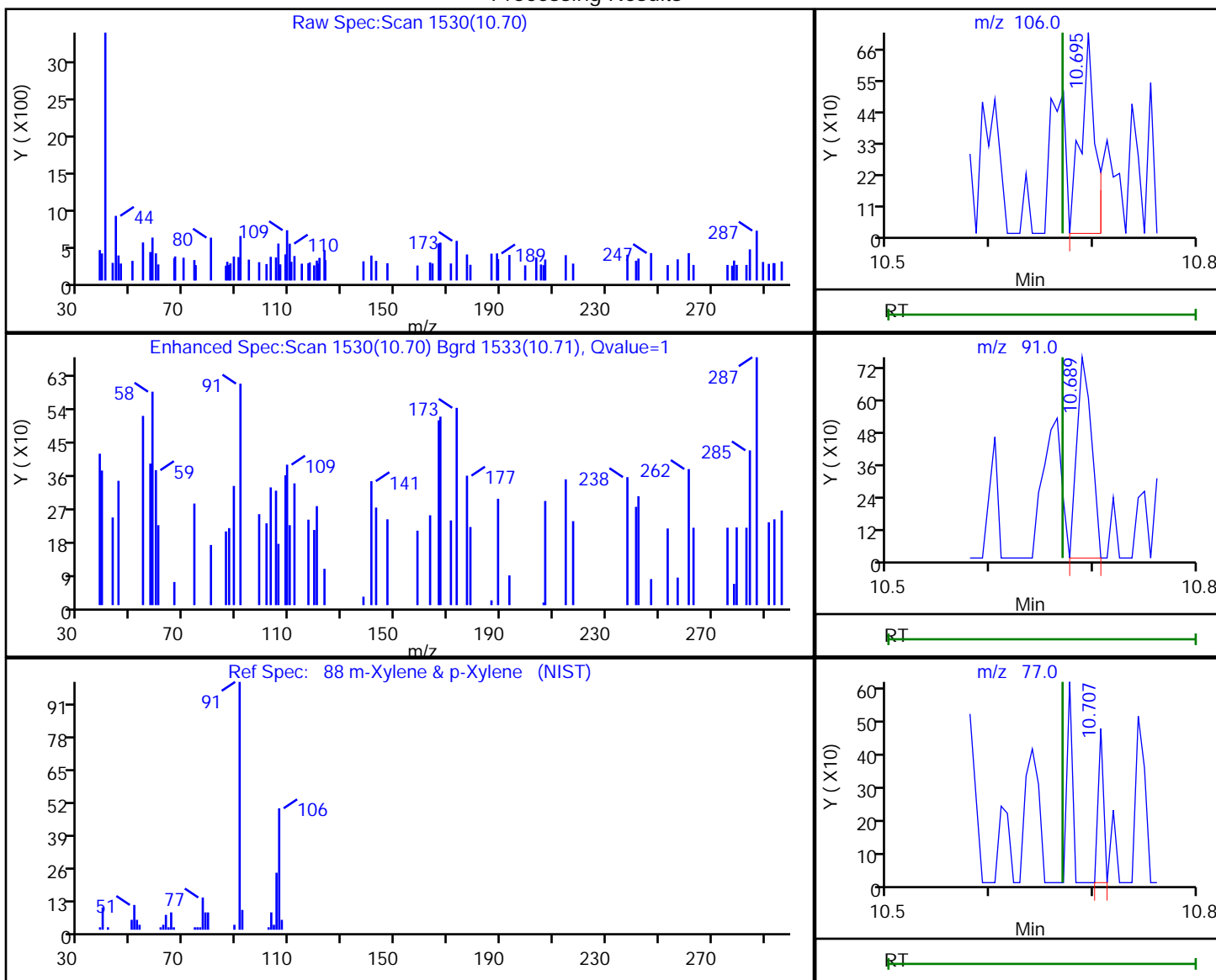
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012518.D  
 Injection Date: 25-Jan-2020 18:26:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-12 Lab Sample ID: 180-101459-12  
 Client ID: HD-COD-SW-9-0/1-0  
 Operator ID: 433269 ALS Bottle#: 12 Worklist Smp#: 18  
 Purge Vol: 5.000 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
10.70	106.00	686	0.130050
10.69	91.00	752	
10.71	77.00	174	

Reviewer: bowieh, 28-Jan-2020 09:43:26

Audit Action: Marked Compound Undetected

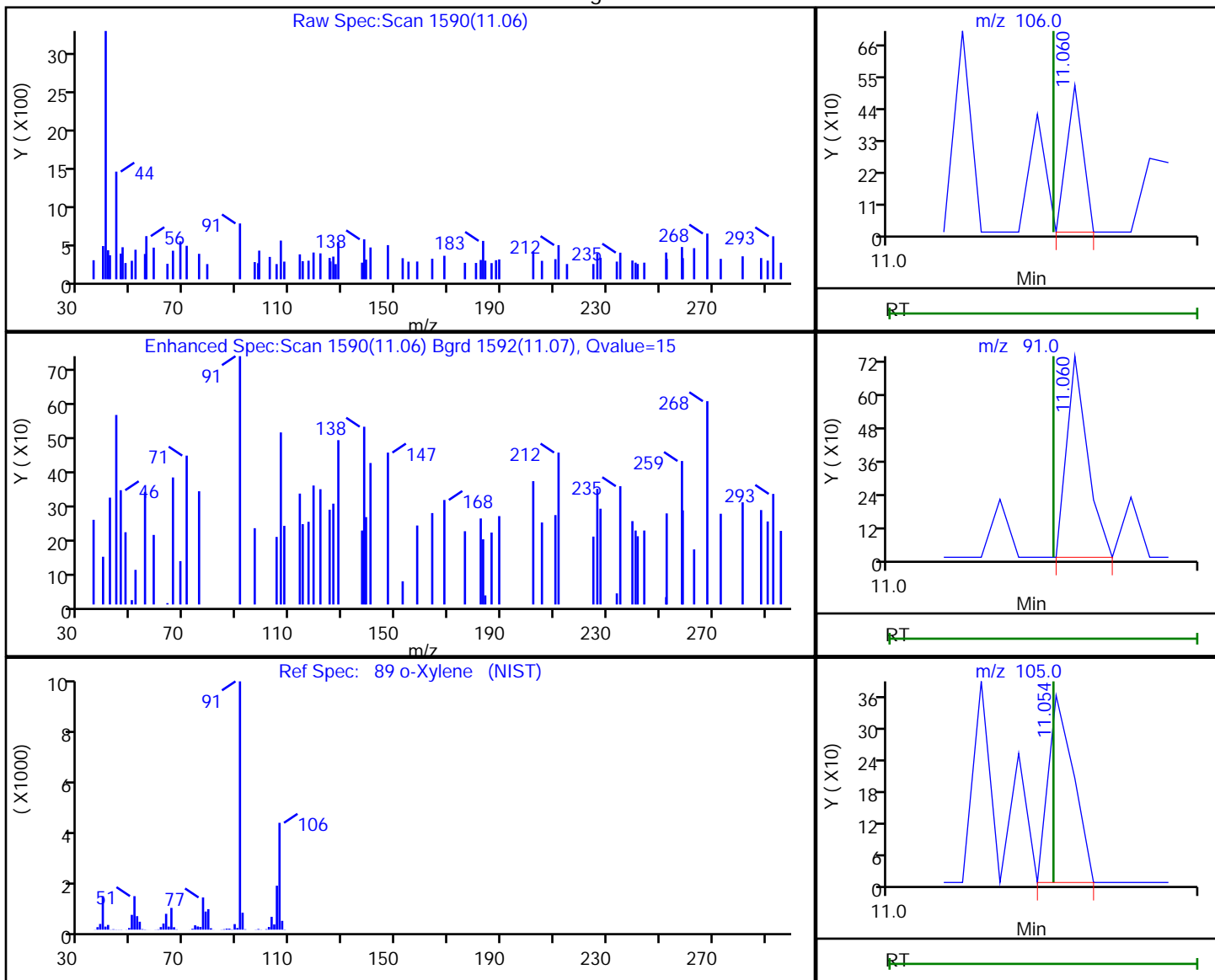
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Eurofins TestAmerica, Pittsburgh

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 Lims ID: 180-101459-B-12 Lab Sample ID: 180-101459-12  
 Client ID: HD-COD-SW-9-0/1-0  
 Operator ID: 433269 ALS Bottle#: 12 Worklist Smp#: 18  
 Purge Vol: 5.000 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
11.06	106.00	187	0.037259
11.06	91.00	347	
11.05	105.00	205	

Reviewer: bowieh, 28-Jan-2020 09:43:27

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

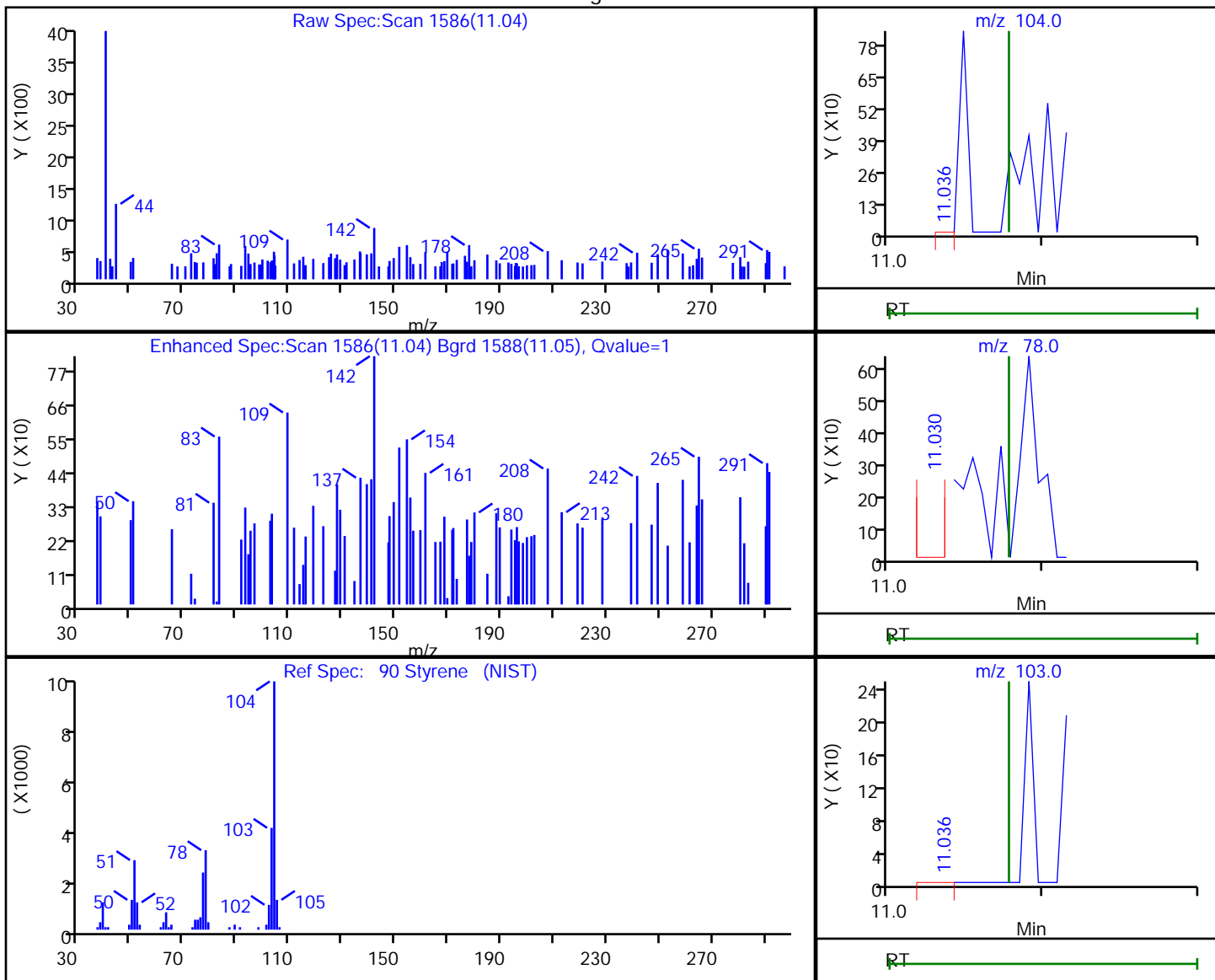


Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012518.D  
 Injection Date: 25-Jan-2020 18:26:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-12 Lab Sample ID: 180-101459-12  
 Client ID: HD-COD-SW-9-0/1-0  
 Operator ID: 433269 ALS Bottle#: 12 Worklist Smp#: 18  
 Purge Vol: 5.000 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
11.04	104.00	376	0.047290
11.03	78.00	160	
11.04	103.00	313	

Reviewer: bowieh, 28-Jan-2020 09:43:28

Audit Action: Marked Compound Undetected

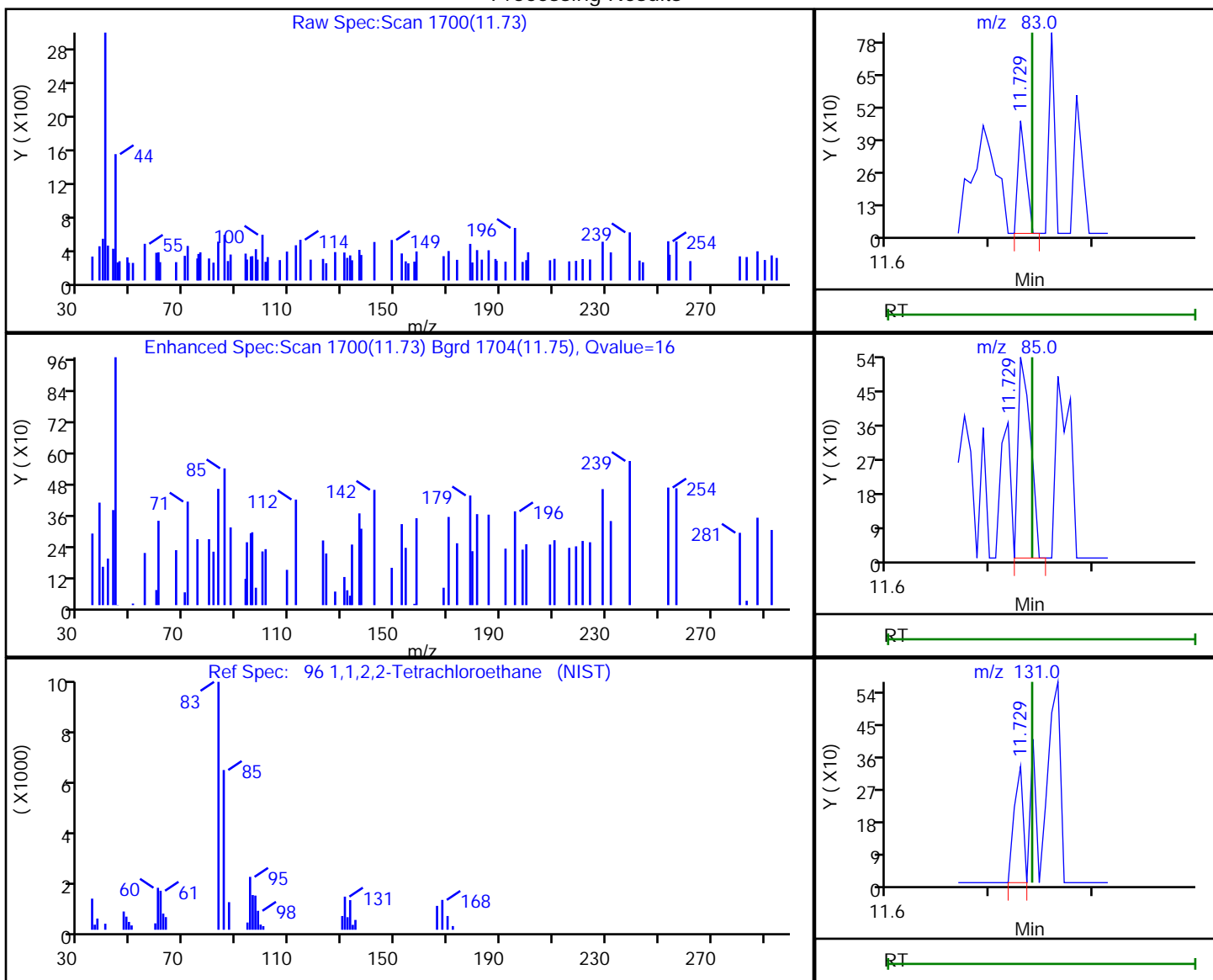
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Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012518.D  
 Injection Date: 25-Jan-2020 18:26:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-12 Lab Sample ID: 180-101459-12  
 Client ID: HD-COD-SW-9-0/1-0  
 Operator ID: 433269 ALS Bottle#: 12 Worklist Smp#: 18  
 Purge Vol: 5.000 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
11.73	83.00	248	0.110866
11.73	85.00	445	
11.73	131.00	197	

Reviewer: bowieh, 28-Jan-2020 09:43:30

Audit Action: Marked Compound Undetected

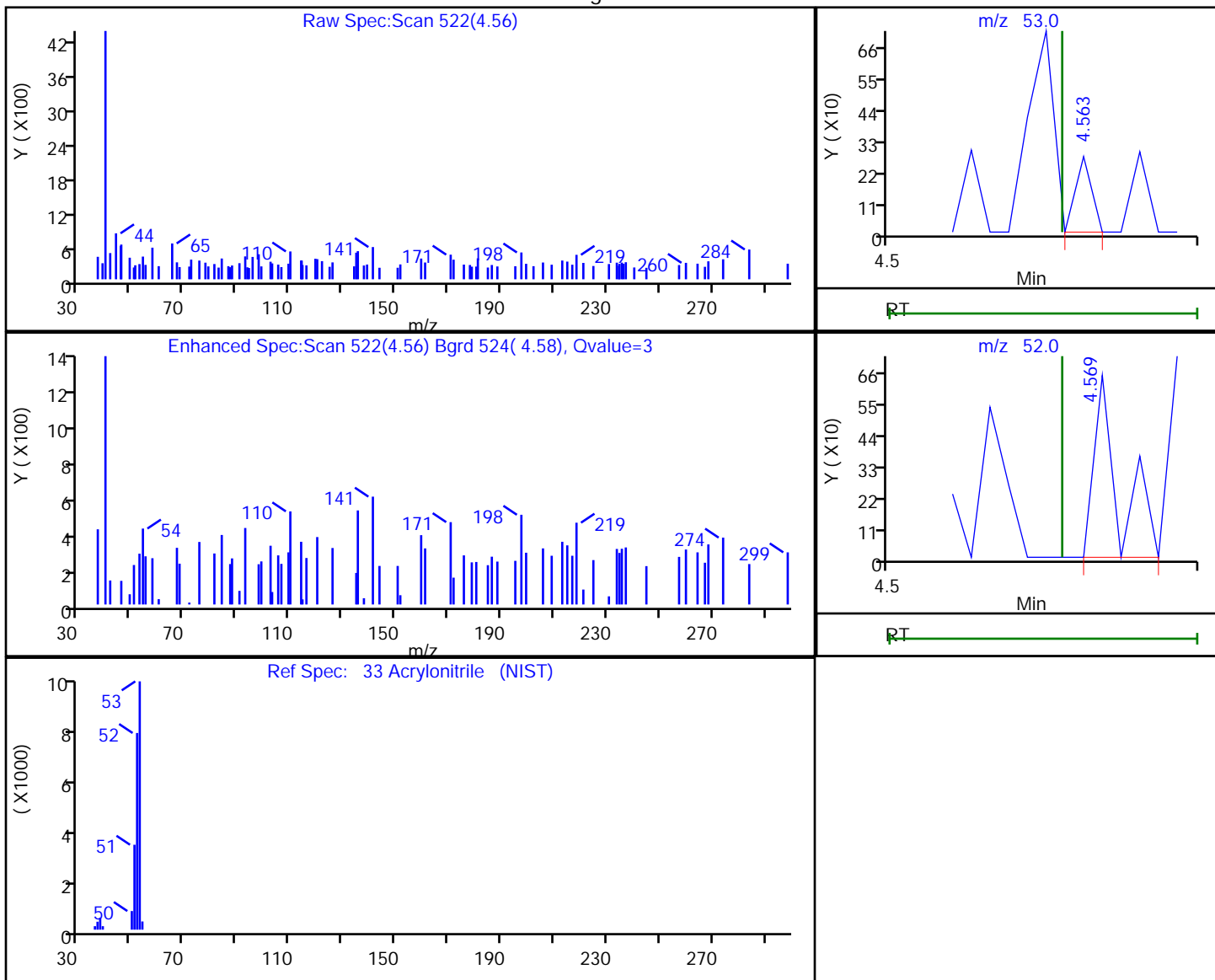
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Eurofins TestAmerica, Pittsburgh

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 Injection Date: 25-Jan-2020 18:26:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-12 Lab Sample ID: 180-101459-12  
 Client ID: HD-COD-SW-9-0/1-0  
 Operator ID: 433269 ALS Bottle#: 12 Worklist Smp#: 18  
 Purge Vol: 5.000 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
4.56	53.00	98	0.110853
4.57	52.00	366	

Reviewer: bowieh, 28-Jan-2020 09:42:44

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.: 180-101459-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: HD-COD-SW-28-0/1-0 Lab Sample ID: 180-101459-13  
 Matrix: Water Lab File ID: 6012519.D  
 Analysis Method: EPA 8260C Date Collected: 01/23/2020 14:05  
 Sample wt/vol: 5 (mL) Date Analyzed: 01/25/2020 18:54  
 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.: 304996 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	ND	^c	1.0	0.88
74-83-9	Bromomethane	ND	^c	1.0	0.89
75-00-3	Chloroethane	ND	^c	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.: 180-101459-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: HD-COD-SW-28-0/1-0 Lab Sample ID: 180-101459-13  
 Matrix: Water Lab File ID: 6012519.D  
 Analysis Method: EPA 8260C Date Collected: 01/23/2020 14:05  
 Sample wt/vol: 5 (mL) Date Analyzed: 01/25/2020 18:54  
 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.: 304996 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)	121		70-150
2037-26-5	Toluene-d8 (Surr)	93		78-128
460-00-4	4-Bromofluorobenzene (Surr)	80		64-123
1868-53-7	Dibromofluoromethane (Surr)	105		75-147

Eurofins TestAmerica, Pittsburgh  
Target Compound Quantitation Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012519.D  
 Lims ID: 180-101459-B-13  
 Client ID: HD-COD-SW-28-0/1-0  
 Sample Type: Client  
 Inject. Date: 25-Jan-2020 18:54:30 ALS Bottle#: 13 Worklist Smp#: 19  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 180-0030512-019  
 Misc. Info.: 180-101459-b-13  
 Operator ID: 433269 Instrument ID: CHHP6  
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\MSVOA\_LL\_CHHP6.m  
 Limit Group: VOA 8260C\_D ICAL  
 Last Update: 28-Jan-2020 09:45:20 Calib Date: 31-Dec-2019 16:03:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123111.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0335

First Level Reviewer: bowieh

Date: 28-Jan-2020 09:45:20

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.317	4.319	-0.002	87	135716	1000.0	
* 2 Fluorobenzene (IS)	96	7.304	7.306	-0.002	99	470031	50.0	
* 3 Chlorobenzene-d5	119	10.412	10.408	0.004	84	123984	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.761	12.757	0.004	93	158153	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.580	6.582	-0.002	95	110692	52.3	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.951	6.953	-0.002	96	133030	60.4	
\$ 7 Toluene-d8 (Surr)	98	8.958	8.954	0.004	93	428142	46.6	
\$ 8 4-Bromofluorobenzene (Surr	95	11.599	11.595	0.004	0	131971	40.2	
12 Chloromethane	50	1.829	1.837	-0.008	41	5768	1.61	M
13 Vinyl chloride	62		1.952				ND	U
15 Bromomethane	94		2.287				ND	U
16 Chloroethane	64		2.421				ND	U
22 1,1-Dichloroethene	96		3.370				ND	U
24 Acetone	43	3.477	3.473	0.004	93	13476	11.7	
26 Carbon disulfide	76		3.662				ND	U
31 Methylene Chloride	84	4.159	4.155	0.004	73	7338	-3.84	a
33 Acrylonitrile	53		4.556				ND	U
34 trans-1,2-Dichloroethene	96		4.574				ND	U
35 Methyl tert-butyl ether	73		4.611				ND	U
37 1,1-Dichloroethane	63		5.219				ND	U
43 cis-1,2-Dichloroethene	96		5.967				ND	U
44 2-Butanone (MEK)	43		5.980				ND	U
48 Chlorobromomethane	128		6.247				ND	U
50 Chloroform	83		6.393				ND	U
51 1,1,1-Trichloroethane	97		6.558				ND	U
53 Carbon tetrachloride	117		6.722				ND	U
56 Benzene	78		6.959				ND	U
57 1,2-Dichloroethane	62		7.038				ND	U
61 Trichloroethene	130		7.689				ND	U
64 1,2-Dichloropropane	63		7.963				ND	U
68 Dichlorobromomethane	83		8.249				ND	U

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
71 cis-1,3-Dichloropropene	75		8.699				ND	U
72 4-Methyl-2-pentanone (MIBK)	43		8.857				ND	U
73 Toluene	91	9.025	9.021	0.004	57	5286	0.4524	M
74 trans-1,3-Dichloropropene	75		9.277				ND	U
76 1,1,2-Trichloroethane	97		9.472				ND	U
77 Tetrachloroethene	164	9.530	9.538	-0.008	31	1150	0.3984	
79 2-Hexanone	43		9.691				ND	U
81 Chlorodibromomethane	129		9.843				ND	U
82 Ethylene Dibromide	107		9.952				ND	U
84 Chlorobenzene	112		10.439				ND	U
86 1,1,1,2-Tetrachloroethane	131		10.530				ND	U
87 Ethylbenzene	106		10.542				ND	U
88 m-Xylene & p-Xylene	106		10.670				ND	U
89 o-Xylene	106		11.053				ND	U
90 Styrene	104		11.078				ND	U
91 Bromoform	173		11.254				ND	U
96 1,1,2,2-Tetrachloroethane	83		11.741				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:

VOA8260INT\_00103

Amount Added: 2.00

Units: uL

Run Reagent

VOA8260SURR\_00103

Amount Added: 2.00

Units: uL

Run Reagent

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012519.D

Injection Date: 25-Jan-2020 18:54:30

Instrument ID: CHHP6

Operator ID: 433269

Lims ID: 180-101459-B-13

Lab Sample ID: 180-101459-13

Worklist Smp#: 19

Client ID: HD-COD-SW-28-0/1-0

Purge Vol: 5.000 mL

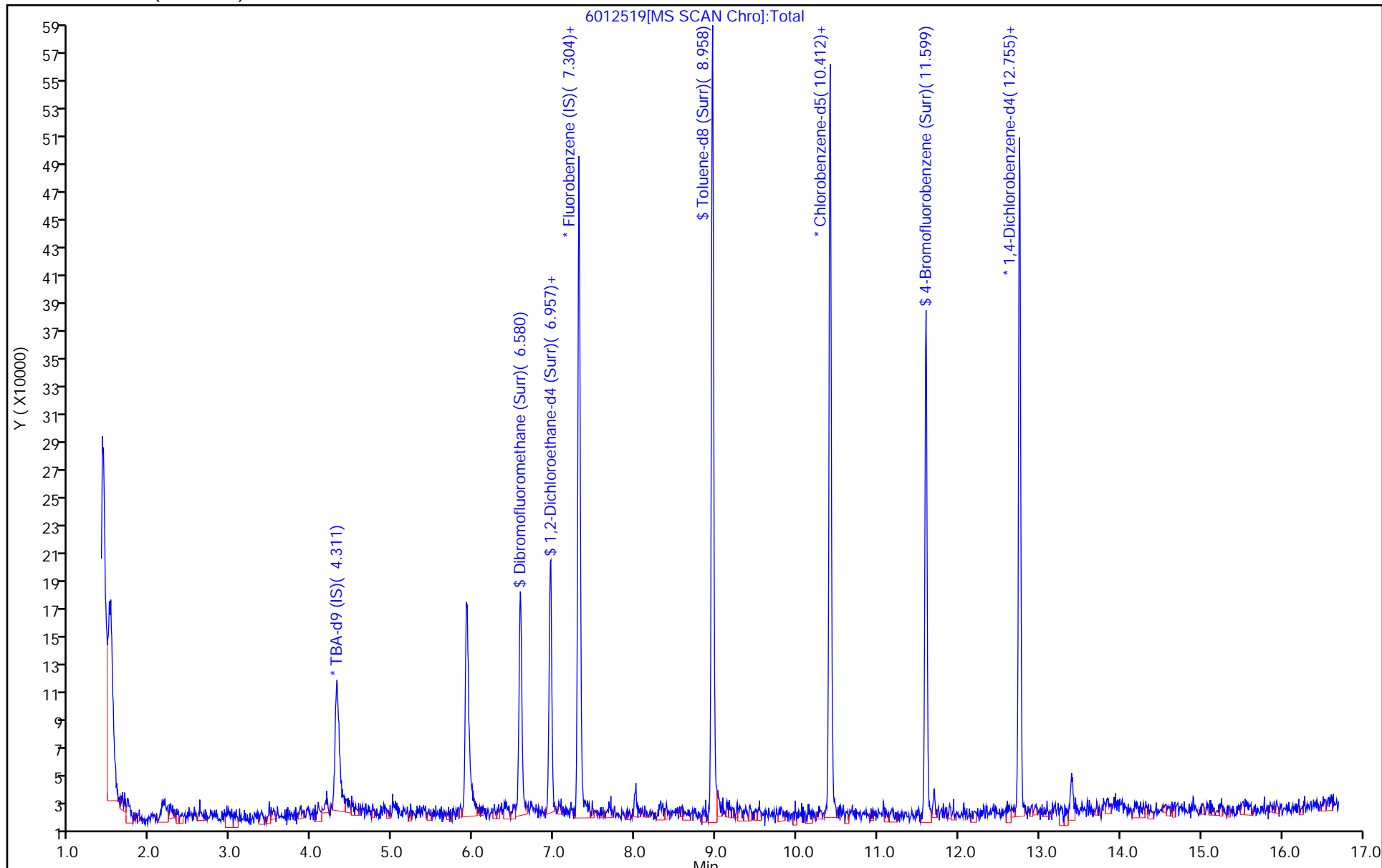
Dil. Factor: 1.0000

ALS Bottle#: 13

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\20200125-30512.b\6012519.D  
 Lims ID: 180-101459-B-13  
 Client ID: HD-COD-SW-28-0/1-0  
 Sample Type: Client  
 Inject. Date: 25-Jan-2020 18:54:30 ALS Bottle#: 13 Worklist Smp#: 19  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 180-0030512-019  
 Misc. Info.: 180-101459-b-13  
 Operator ID: 433269 Instrument ID: CHHP6  
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\MSVOA\_LL\_CHHP6.m  
 Limit Group: VOA 8260C\_D ICAL  
 Last Update: 28-Jan-2020 09:45:20 Calib Date: 31-Dec-2019 16:03:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123111.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0335

First Level Reviewer: bowieh Date: 28-Jan-2020 09:45:20

Compound	Amount Added	Amount Recovered	% Rec.
\$ 5 Dibromofluoromethane (Surr)	50.0	52.3	104.52
\$ 6 1,2-Dichloroethane-d4 (Surr)	50.0	60.4	120.71
\$ 7 Toluene-d8 (Surr)	50.0	46.6	93.23
\$ 8 4-Bromofluorobenzene (Surr)	50.0	40.2	80.46

Eurofins TestAmerica, Pittsburgh

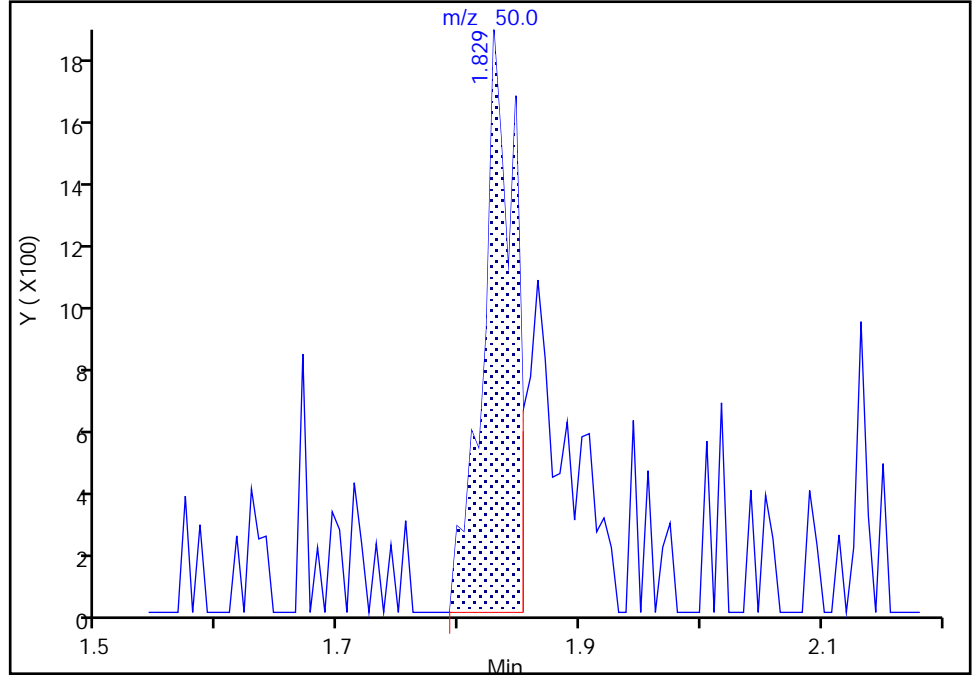
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Injection Date: 25-Jan-2020 18:54:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-13 Lab Sample ID: 180-101459-13  
Client ID: HD-COD-SW-28-0/1-0  
Operator ID: 433269 ALS Bottle#: 13 Worklist Smp#: 19  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
Column: DB-624 (0.18 mm) Detector: MS SCAN

12 Chloromethane, CAS: 74-87-3

Signal: 1

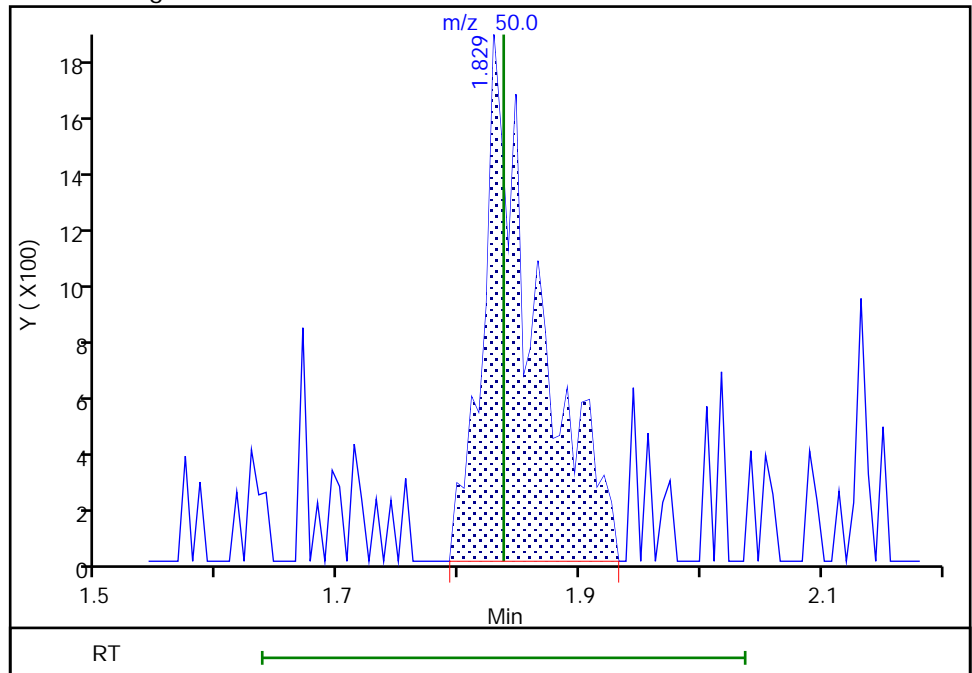
RT: 1.83  
Area: 3436  
Amount: 0.959249  
Amount Units: ng

Processing Integration Results



RT: 1.83  
Area: 5768  
Amount: 1.610287  
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 28-Jan-2020 09:43:55  
Audit Action: Manually Integrated

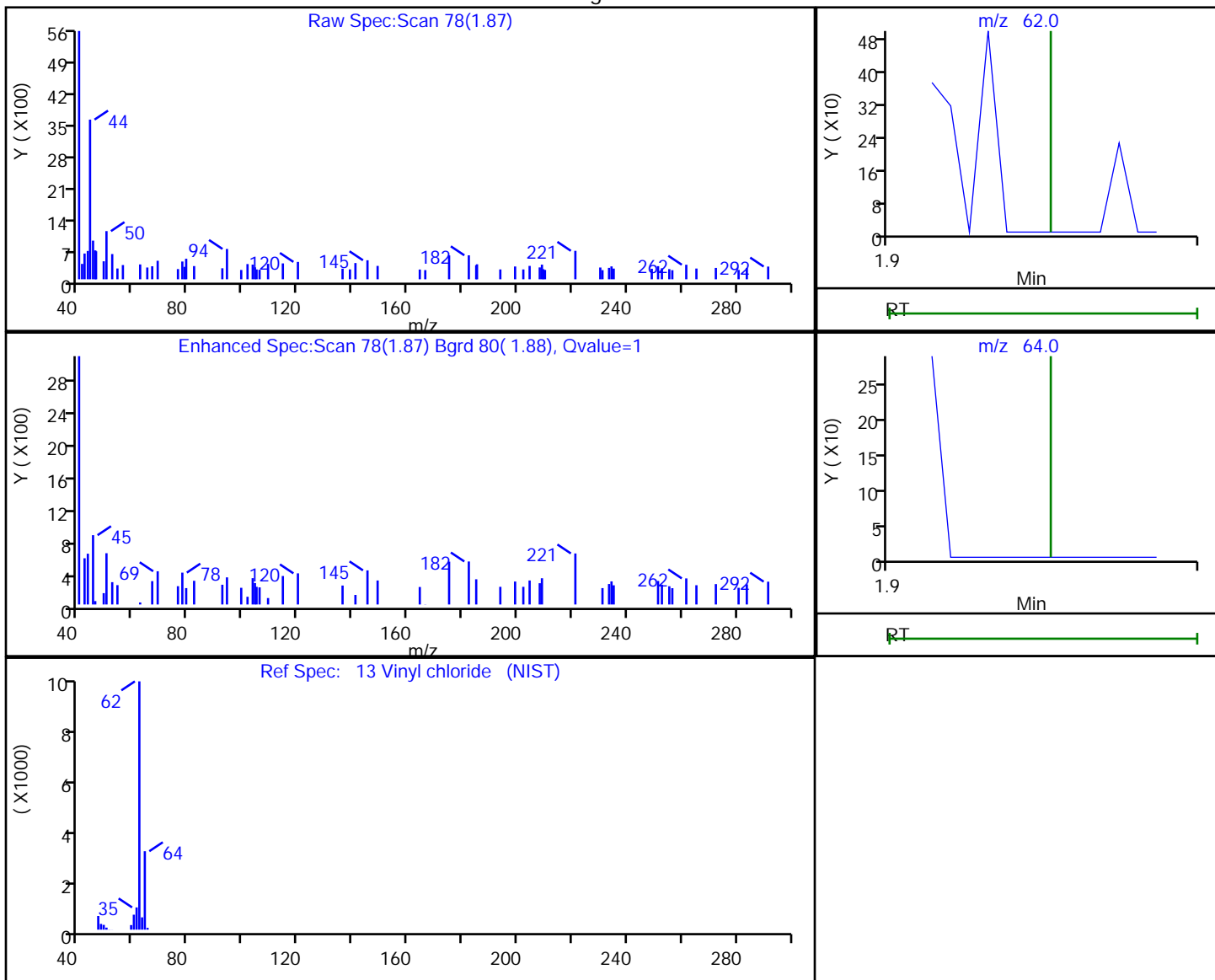
Audit Reason: Poor chromatography  
Page 630 of 880

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012519.D  
 Injection Date: 25-Jan-2020 18:54:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-13 Lab Sample ID: 180-101459-13  
 Client ID: HD-COD-SW-28-0/1-0  
 Operator ID: 433269 ALS Bottle#: 13 Worklist Smp#: 19  
 Purge Vol: 5.000 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
1.87	62.00	121	0.039255
1.86	64.00	383	

Reviewer: bowieh, 28-Jan-2020 09:44:03

Audit Action: Marked Compound Undetected

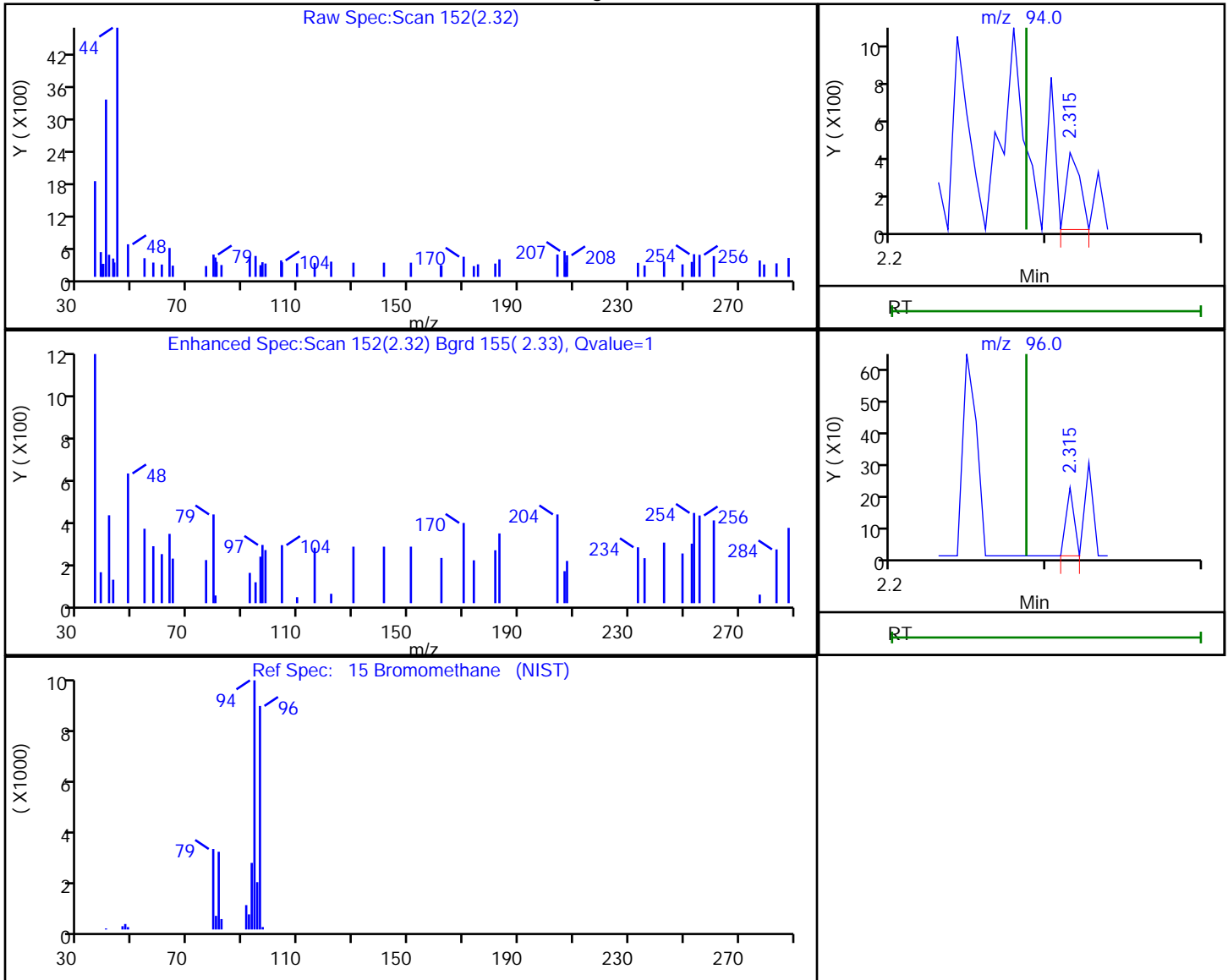
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012519.D  
Injection Date: 25-Jan-2020 18:54:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-13 Lab Sample ID: 180-101459-13  
Client ID: HD-COD-SW-28-0/1-0  
Operator ID: 433269 ALS Bottle#: 13 Worklist Smp#: 19  
Purge Vol: 5.000 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
2.32	94.00	242	0.123056
2.32	96.00	80	

Reviewer: bowieh, 28-Jan-2020 09:44:04

Audit Action: Marked Compound Undetected

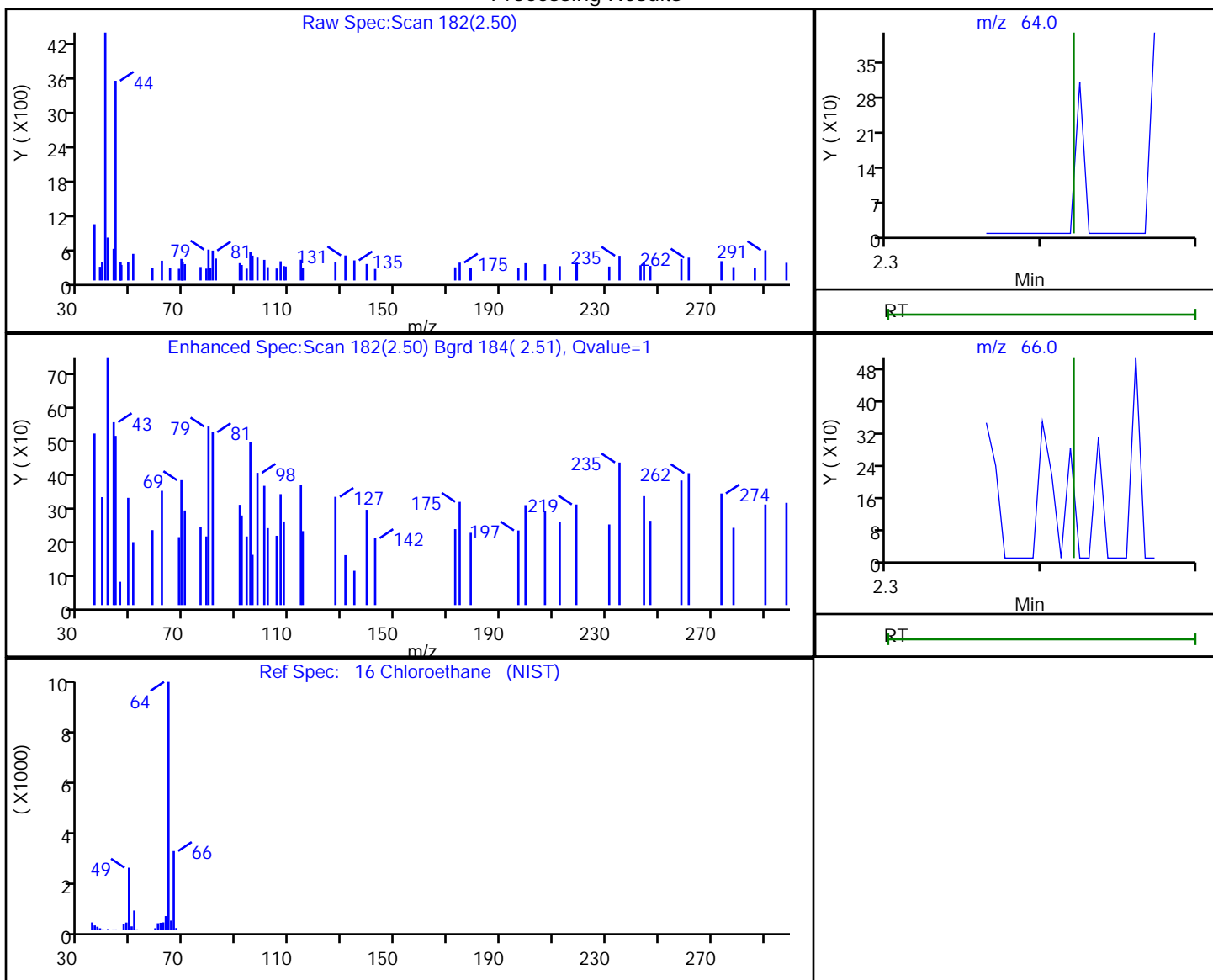
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012519.D  
Injection Date: 25-Jan-2020 18:54:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-13 Lab Sample ID: 180-101459-13  
Client ID: HD-COD-SW-28-0/1-0  
Operator ID: 433269 ALS Bottle#: 13 Worklist Smp#: 19  
Purge Vol: 5.000 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
2.50	64.00	81	0.036082
2.50	66.00	157	

Reviewer: bowieh, 28-Jan-2020 09:44:05

Audit Action: Marked Compound Undetected

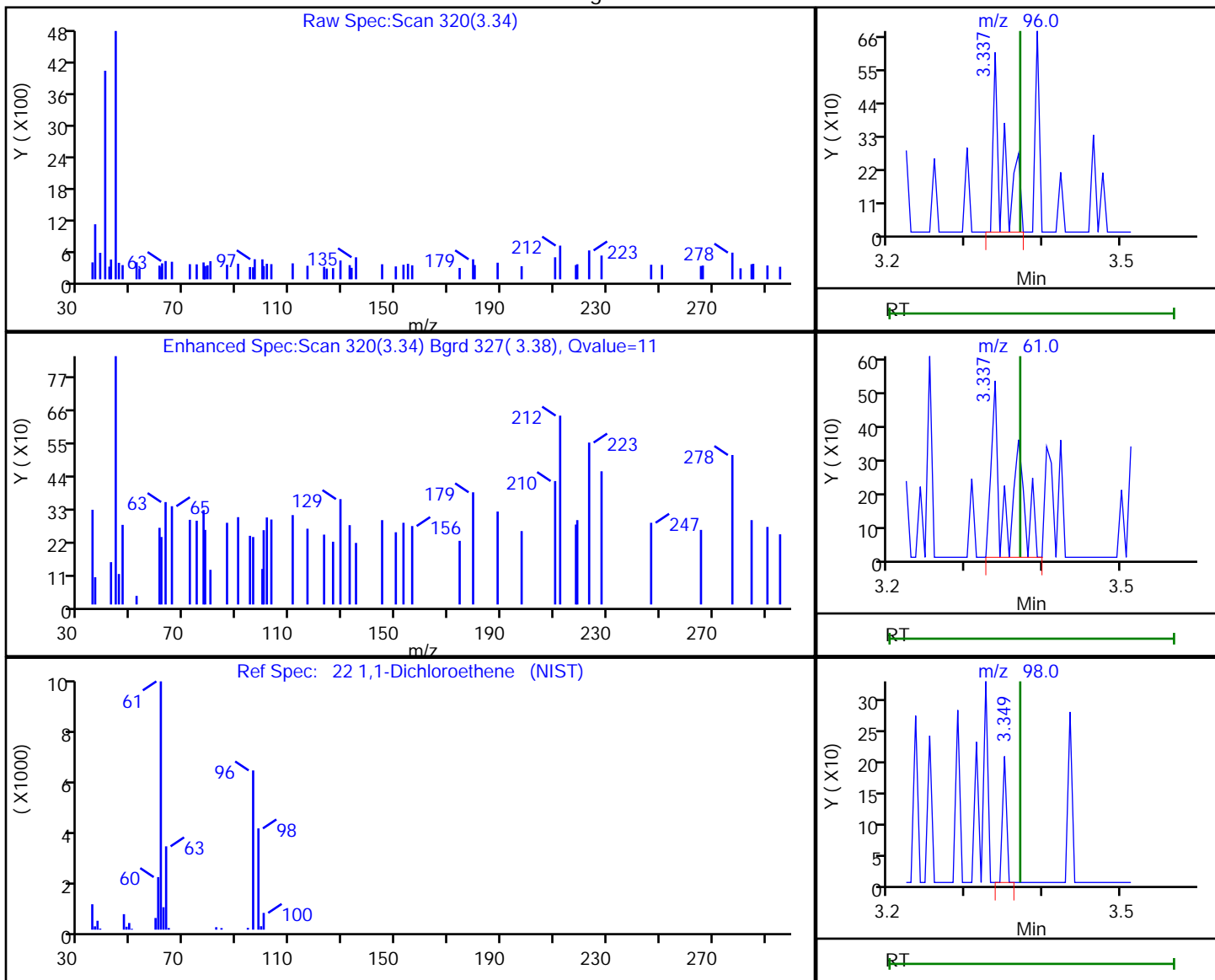
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012519.D  
 Injection Date: 25-Jan-2020 18:54:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-13 Lab Sample ID: 180-101459-13  
 Client ID: HD-COD-SW-28-0/1-0  
 Operator ID: 433269 ALS Bottle#: 13 Worklist Smp#: 19  
 Purge Vol: 5.000 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
3.34	96.00	526	0.233695
3.34	61.00	726	
3.35	98.00	74	

Reviewer: bowieh, 28-Jan-2020 09:44:06

Audit Action: Marked Compound Undetected

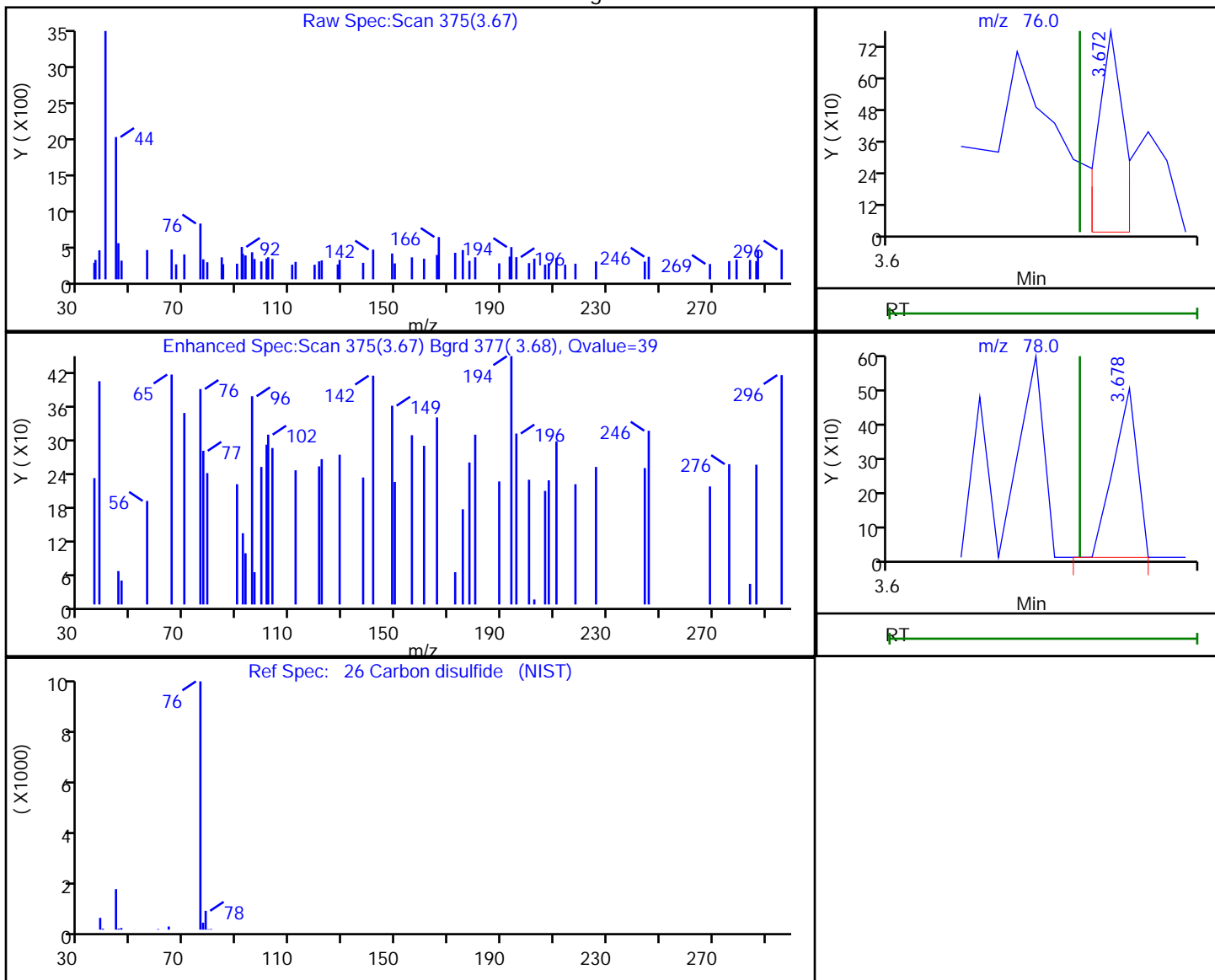
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012519.D  
Injection Date: 25-Jan-2020 18:54:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-13 Lab Sample ID: 180-101459-13  
Client ID: HD-COD-SW-28-0/1-0  
Operator ID: 433269 ALS Bottle#: 13 Worklist Smp#: 19  
Purge Vol: 5.000 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
3.67	76.00	470	0.092822
3.68	78.00	270	

Reviewer: bowieh, 28-Jan-2020 09:44:08

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

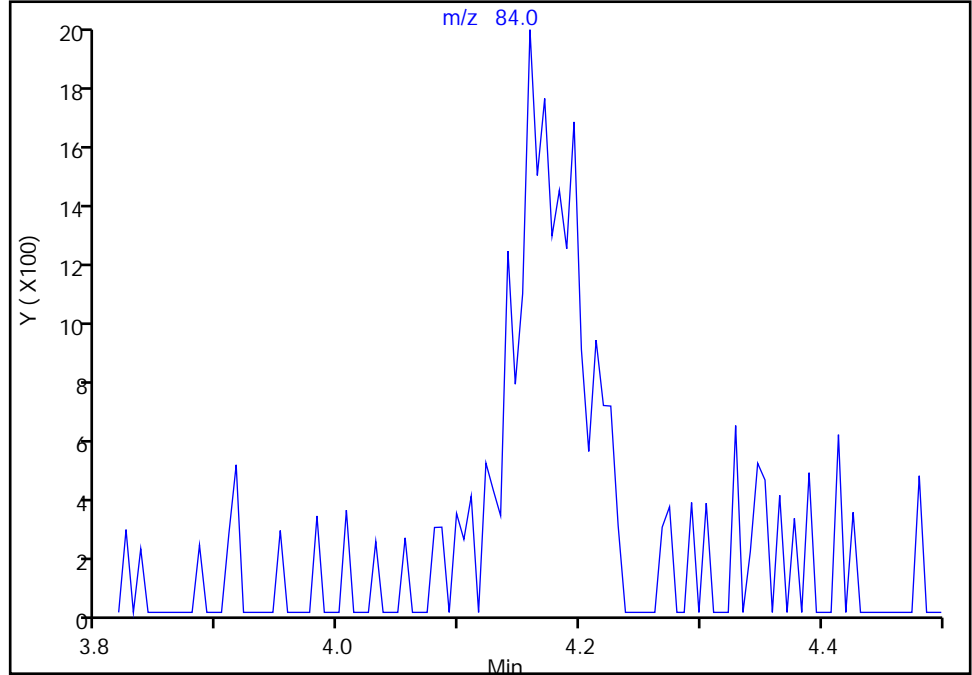
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Injection Date: 25-Jan-2020 18:54:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-13 Lab Sample ID: 180-101459-13  
Client ID: HD-COD-SW-28-0/1-0  
Operator ID: 433269 ALS Bottle#: 13 Worklist Smp#: 19  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: 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

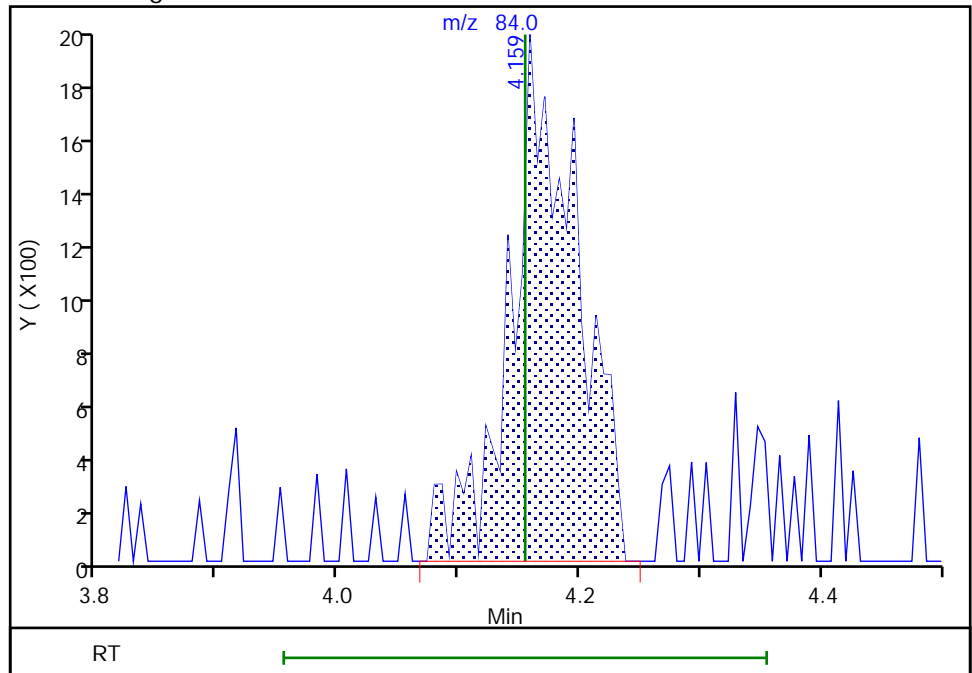
Not Detected  
Expected RT: 4.15

Processing Integration Results



Manual Integration Results

RT: 4.16  
Area: 7338  
Amount: -3.841339  
Amount Units: ng



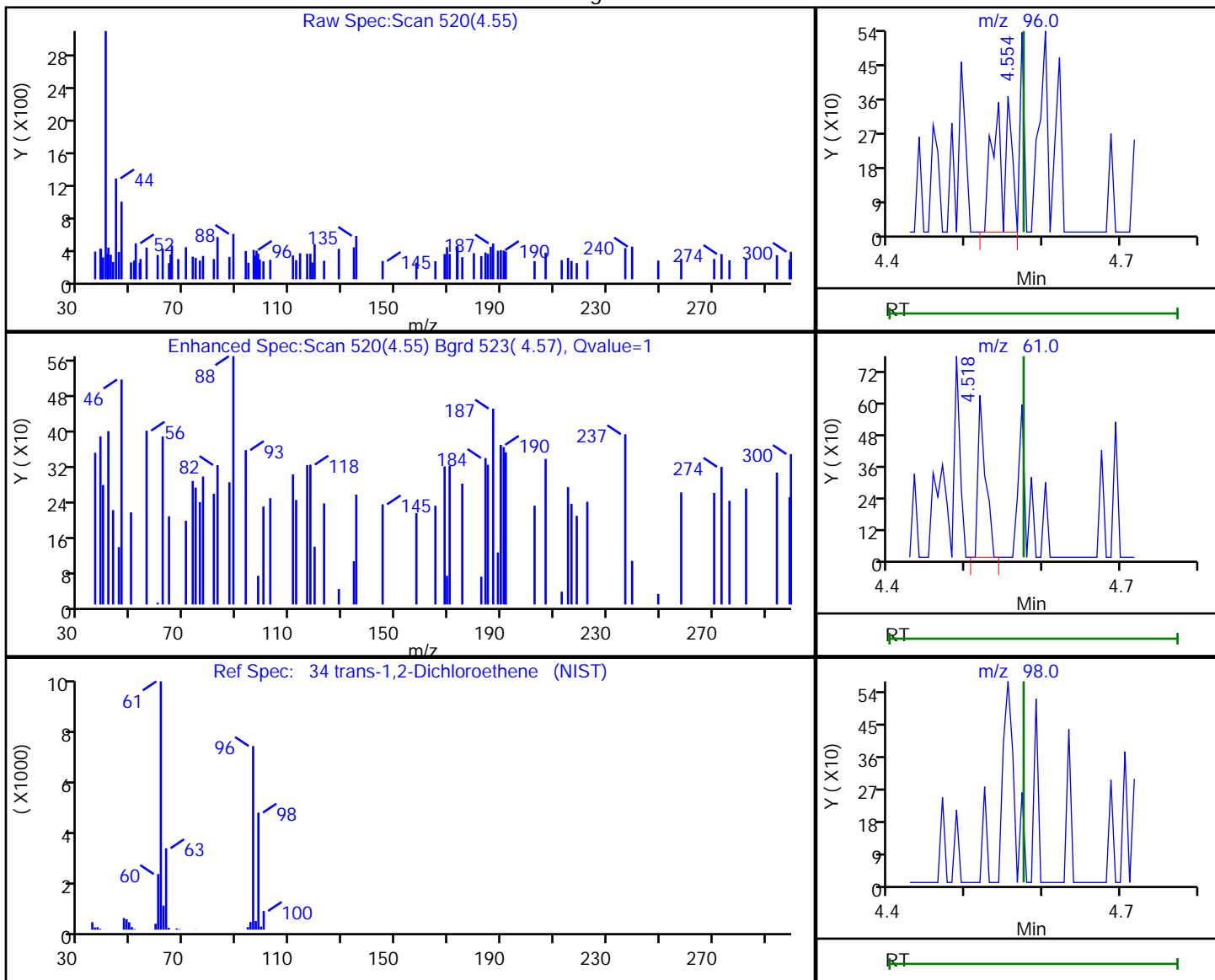


Eurofins TestAmerica, Pittsburgh

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 Injection Date: 25-Jan-2020 18:54:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-13 Lab Sample ID: 180-101459-13  
 Client ID: HD-COD-SW-28-0/1-0  
 Operator ID: 433269 ALS Bottle#: 13 Worklist Smp#: 19  
 Purge Vol: 5.000 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
4.55	96.00	502	0.196196
4.52	61.00	421	
4.57	98.00	0	

Reviewer: bowieh, 28-Jan-2020 09:44:16

Audit Action: Marked Compound Undetected

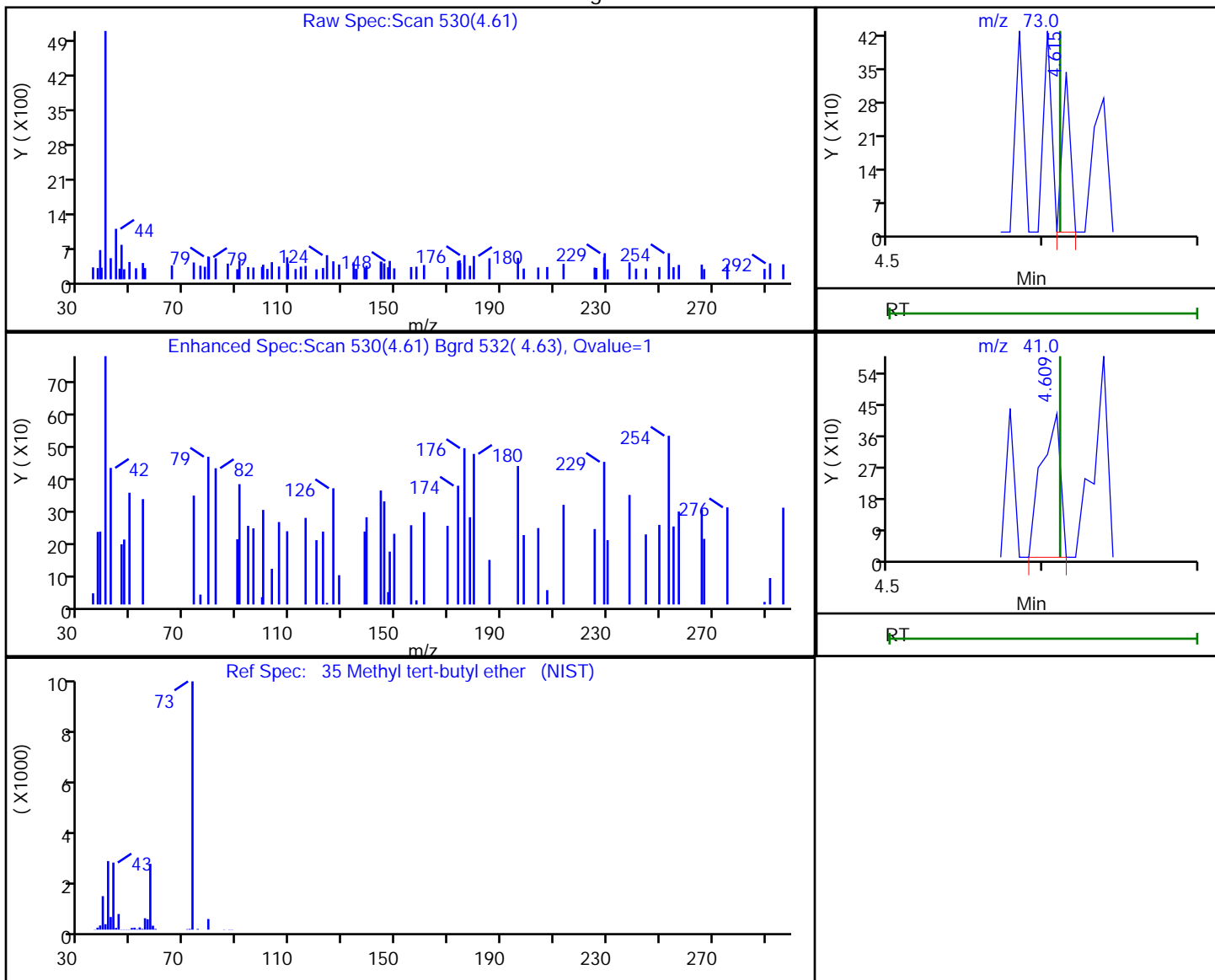
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012519.D  
Injection Date: 25-Jan-2020 18:54:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-13 Lab Sample ID: 180-101459-13  
Client ID: HD-COD-SW-28-0/1-0  
Operator ID: 433269 ALS Bottle#: 13 Worklist Smp#: 19  
Purge Vol: 5.000 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
4.61	73.00	125	0.025218
4.61	41.00	359	

Reviewer: bowieh, 28-Jan-2020 09:44:17

Audit Action: Marked Compound Undetected

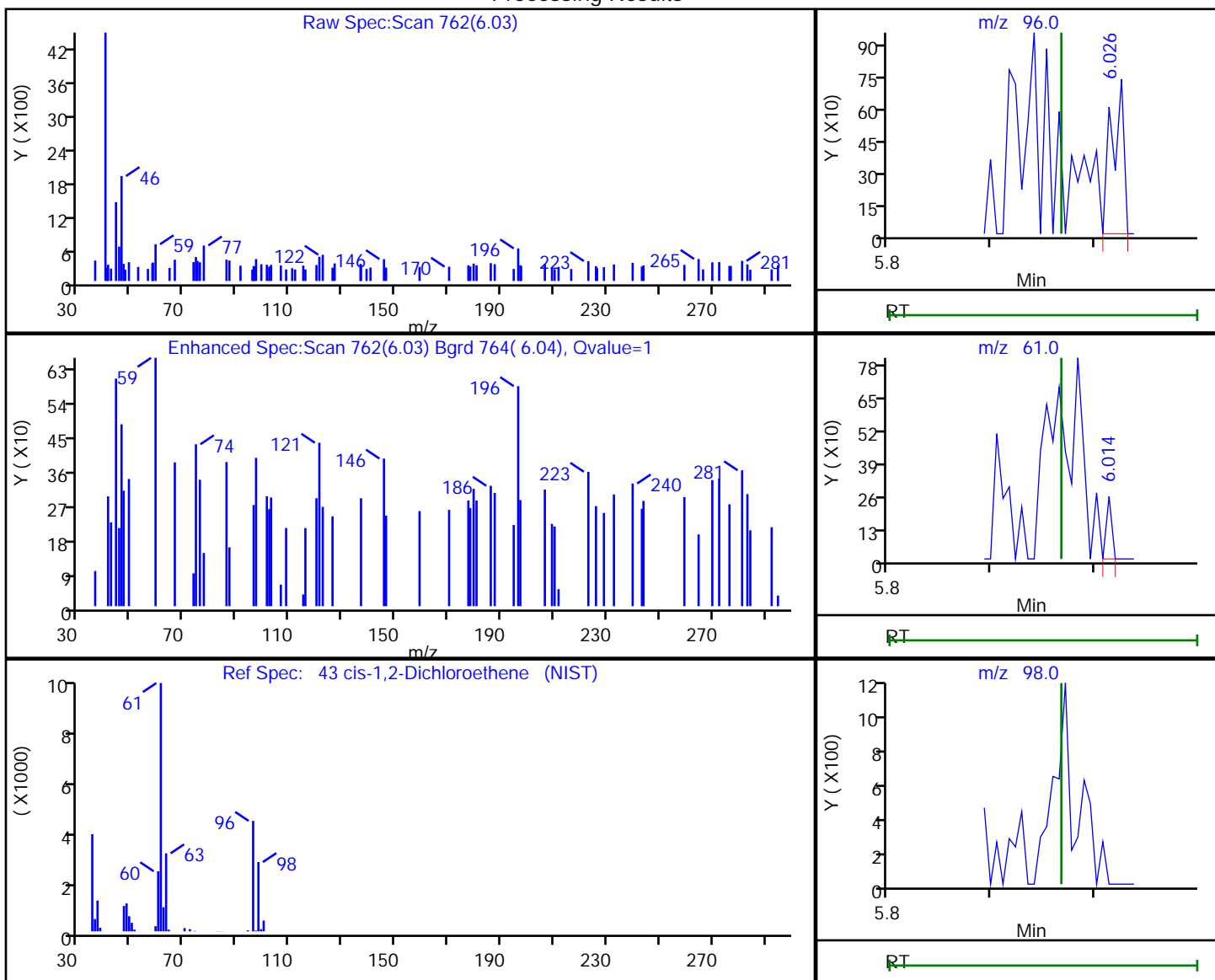
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012519.D  
 Injection Date: 25-Jan-2020 18:54:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-13 Lab Sample ID: 180-101459-13  
 Client ID: HD-COD-SW-28-0/1-0  
 Operator ID: 433269 ALS Bottle#: 13 Worklist Smp#: 19  
 Purge Vol: 5.000 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
6.03	96.00	595	0.215974
6.01	61.00	92	
5.97	98.00	0	

Reviewer: bowieh, 28-Jan-2020 09:44:18

Audit Action: Marked Compound Undetected

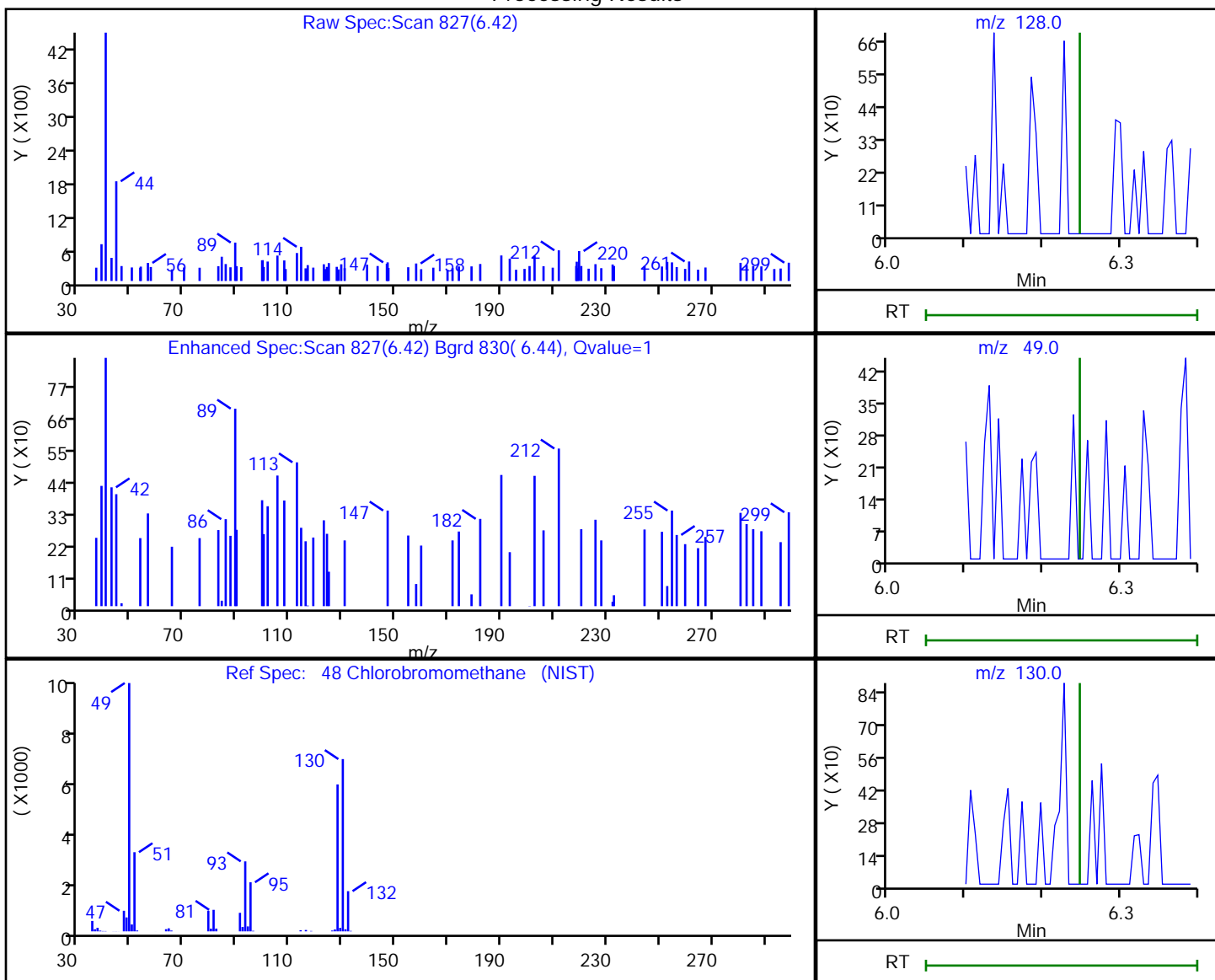
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012519.D  
 Injection Date: 25-Jan-2020 18:54:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-13 Lab Sample ID: 180-101459-13  
 Client ID: HD-COD-SW-28-0/1-0  
 Operator ID: 433269 ALS Bottle#: 13 Worklist Smp#: 19  
 Purge Vol: 5.000 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
6.42	128.00	539	0.380227
6.42	49.00	194	
6.43	130.00	88	

Reviewer: bowieh, 28-Jan-2020 09:44:21

Audit Action: Marked Compound Undetected

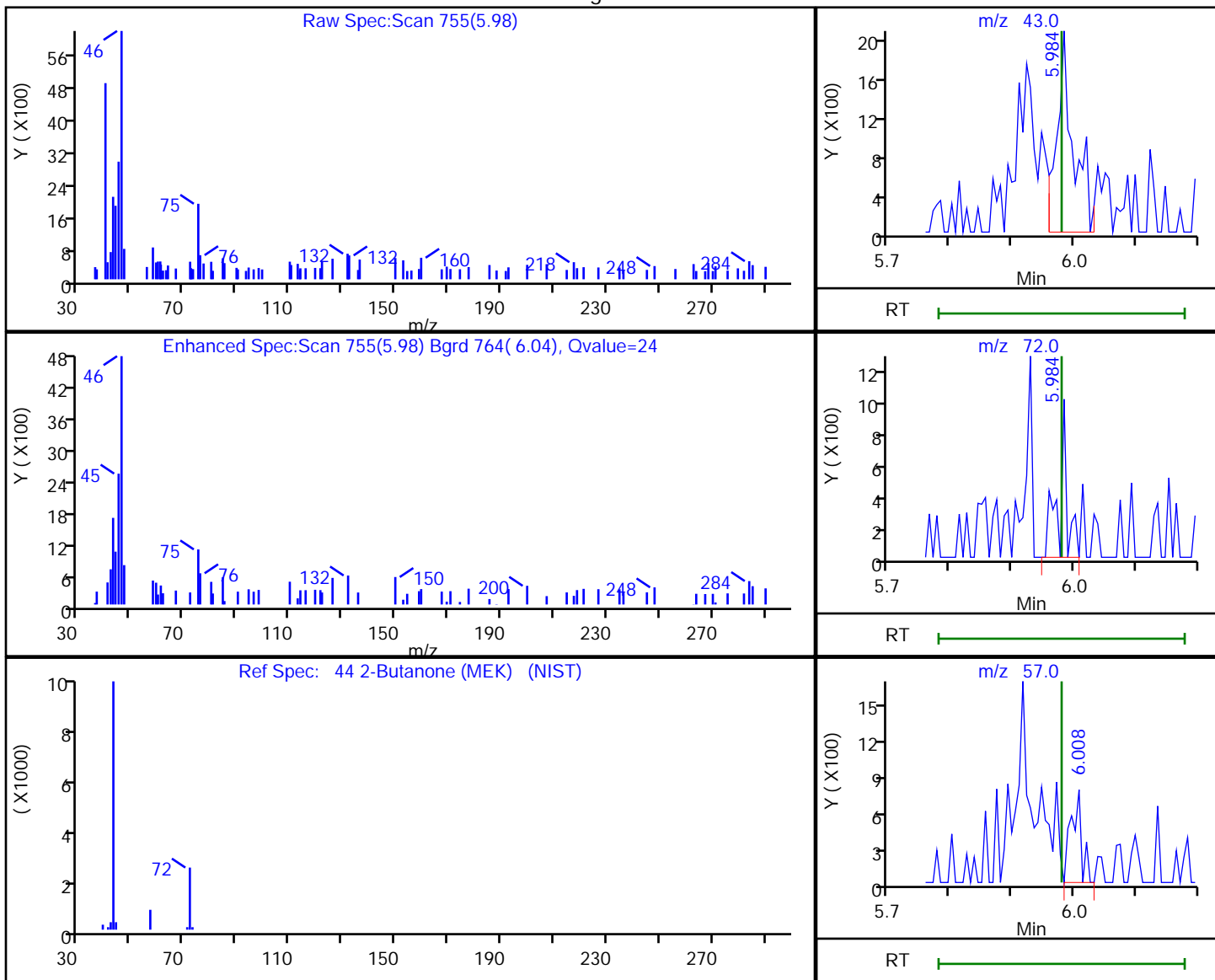
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012519.D  
 Injection Date: 25-Jan-2020 18:54:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-13 Lab Sample ID: 180-101459-13  
 Client ID: HD-COD-SW-28-0/1-0  
 Operator ID: 433269 ALS Bottle#: 13 Worklist Smp#: 19  
 Purge Vol: 5.000 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
5.98	43.00	3841	2.661801
5.98	72.00	907	
6.01	57.00	911	

Reviewer: bowieh, 28-Jan-2020 09:44:20

Audit Action: Marked Compound Undetected

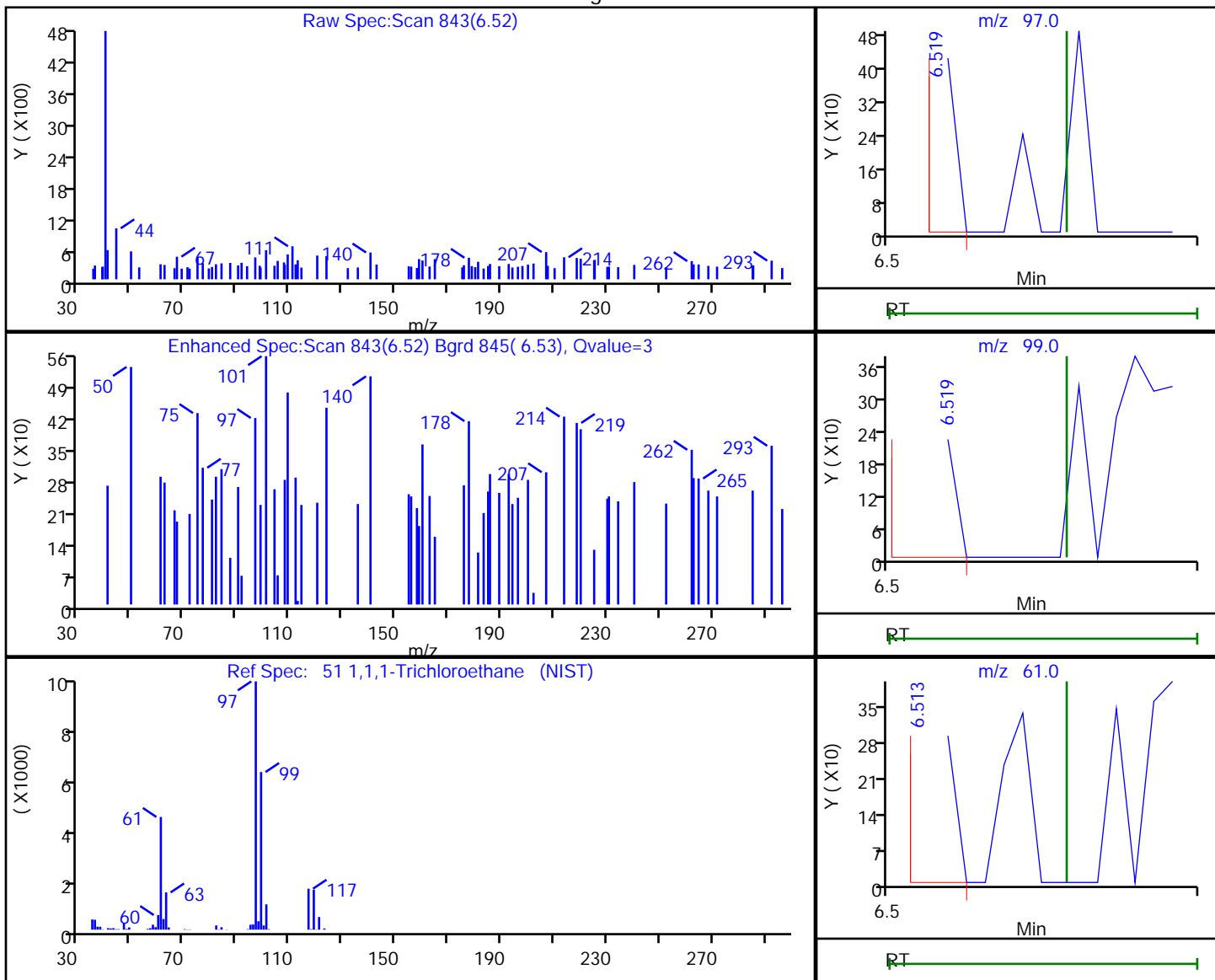
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012519.D  
 Injection Date: 25-Jan-2020 18:54:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-13 Lab Sample ID: 180-101459-13  
 Client ID: HD-COD-SW-28-0/1-0  
 Operator ID: 433269 ALS Bottle#: 13 Worklist Smp#: 19  
 Purge Vol: 5.000 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
6.52	97.00	152	0.047931
6.52	99.00	154	
6.51	61.00	250	

Reviewer: bowieh, 28-Jan-2020 09:44:24

Audit Action: Marked Compound Undetected

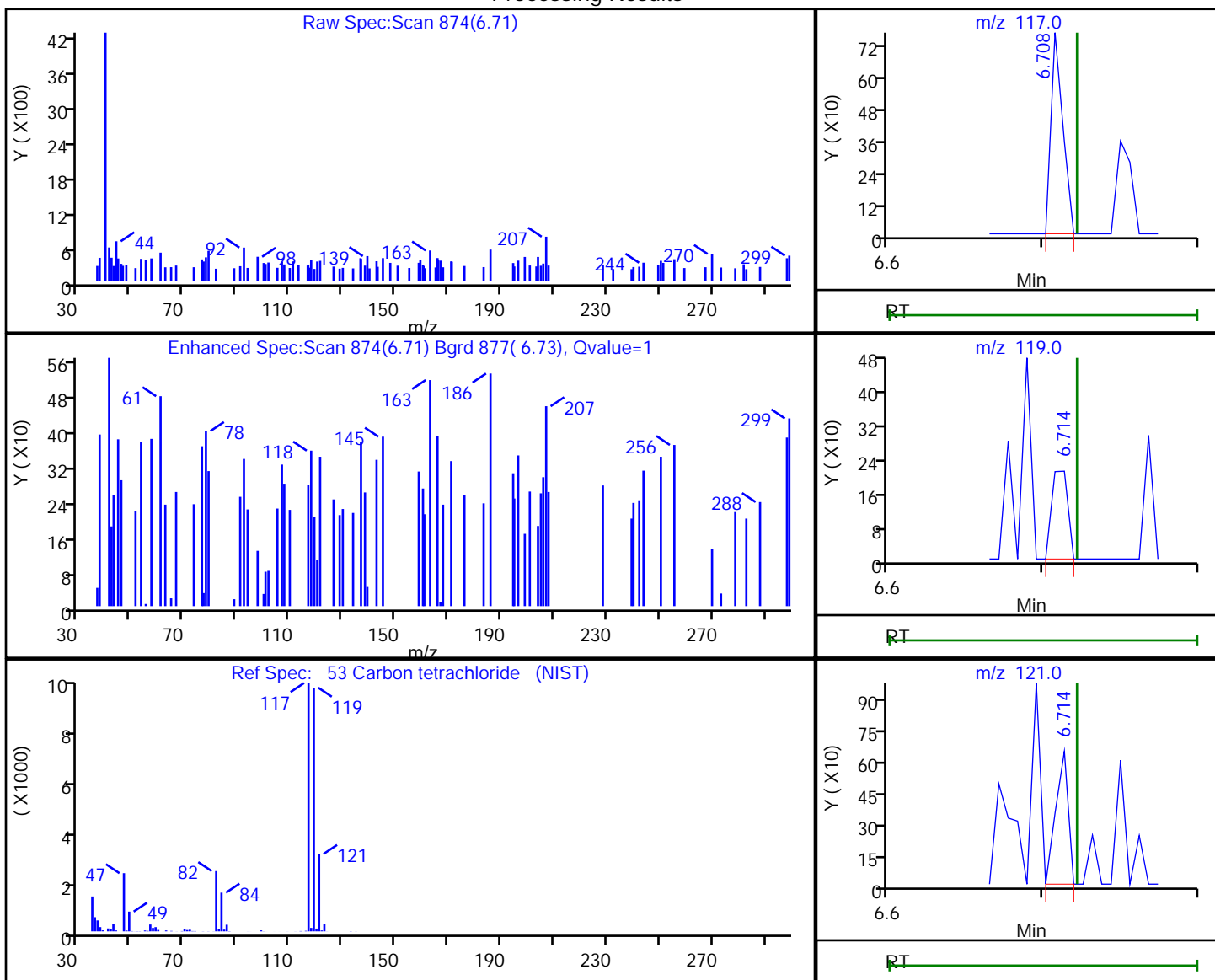
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Injection Date: 25-Jan-2020 18:54:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-13 Lab Sample ID: 180-101459-13  
 Client ID: HD-COD-SW-28-0/1-0  
 Operator ID: 433269 ALS Bottle#: 13 Worklist Smp#: 19  
 Purge Vol: 5.000 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
6.71	117.00	408	0.152979
6.71	119.00	150	
6.71	121.00	360	

Reviewer: bowieh, 28-Jan-2020 09:44:25

Audit Action: Marked Compound Undetected

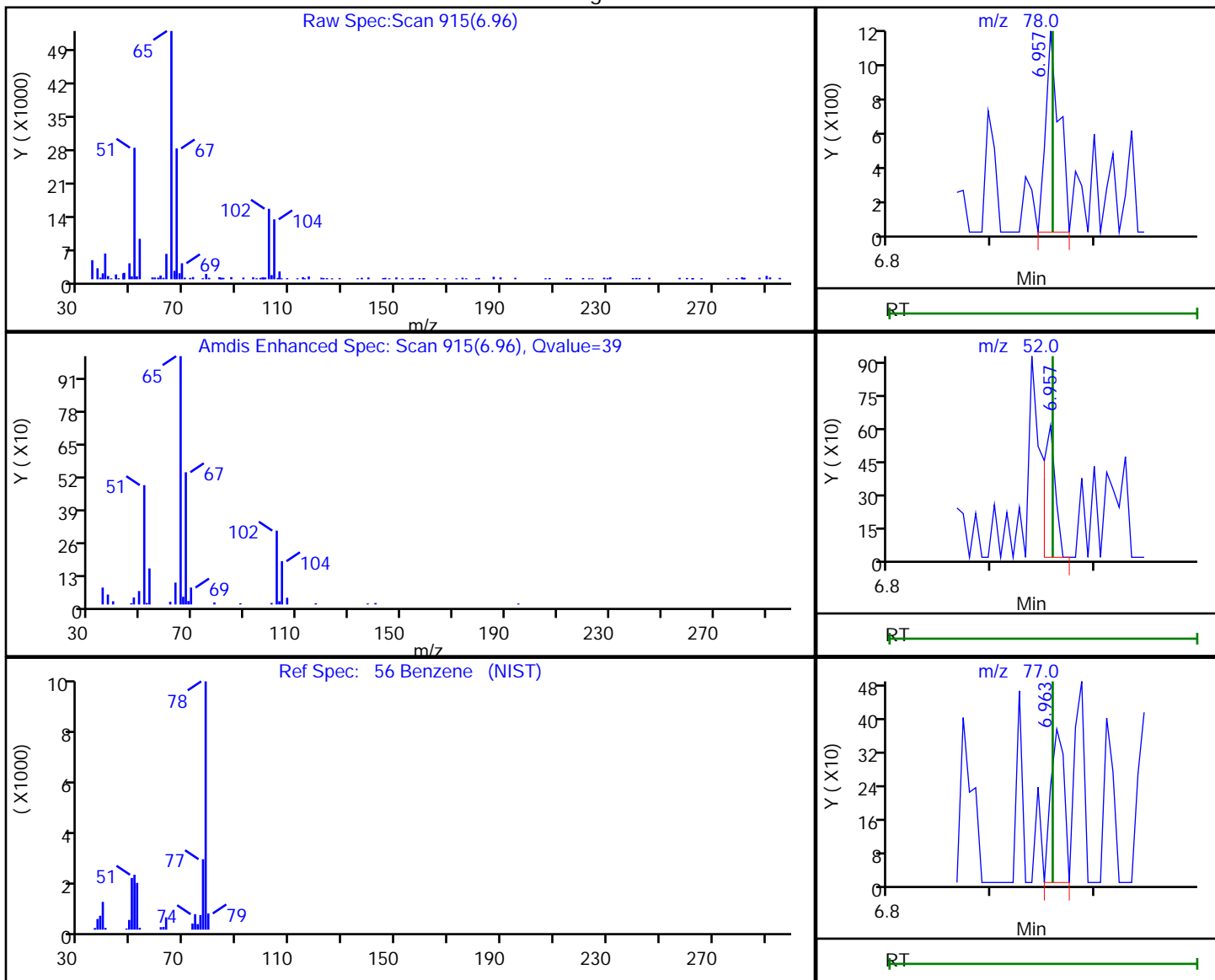
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Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012519.D  
 Injection Date: 25-Jan-2020 18:54:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-13 Lab Sample ID: 180-101459-13  
 Client ID: HD-COD-SW-28-0/1-0  
 Operator ID: 433269 ALS Bottle#: 13 Worklist Smp#: 19  
 Purge Vol: 5.000 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
6.96	78.00	1053	0.103659
6.96	52.00	471	
6.96	77.00	335	

Reviewer: bowieh, 28-Jan-2020 09:44:26

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

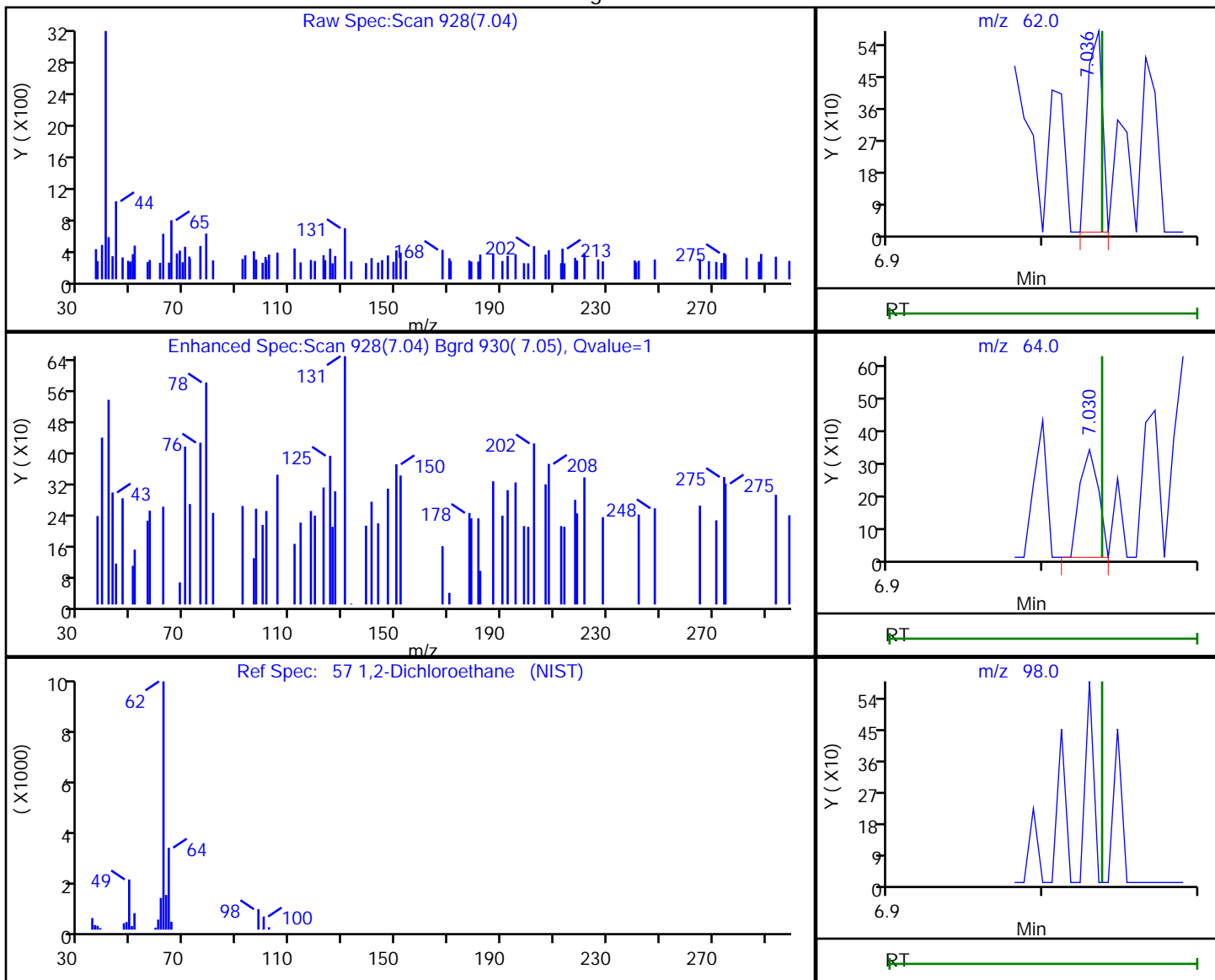


Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012519.D  
Injection Date: 25-Jan-2020 18:54:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-13 Lab Sample ID: 180-101459-13  
Client ID: HD-COD-SW-28-0/1-0  
Operator ID: 433269 ALS Bottle#: 13 Worklist Smp#: 19  
Purge Vol: 5.000 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	383	0.136892
7.03	64.00	283	
7.04	98.00	0	

Reviewer: bowieh, 28-Jan-2020 09:44:27

Audit Action: Marked Compound Undetected

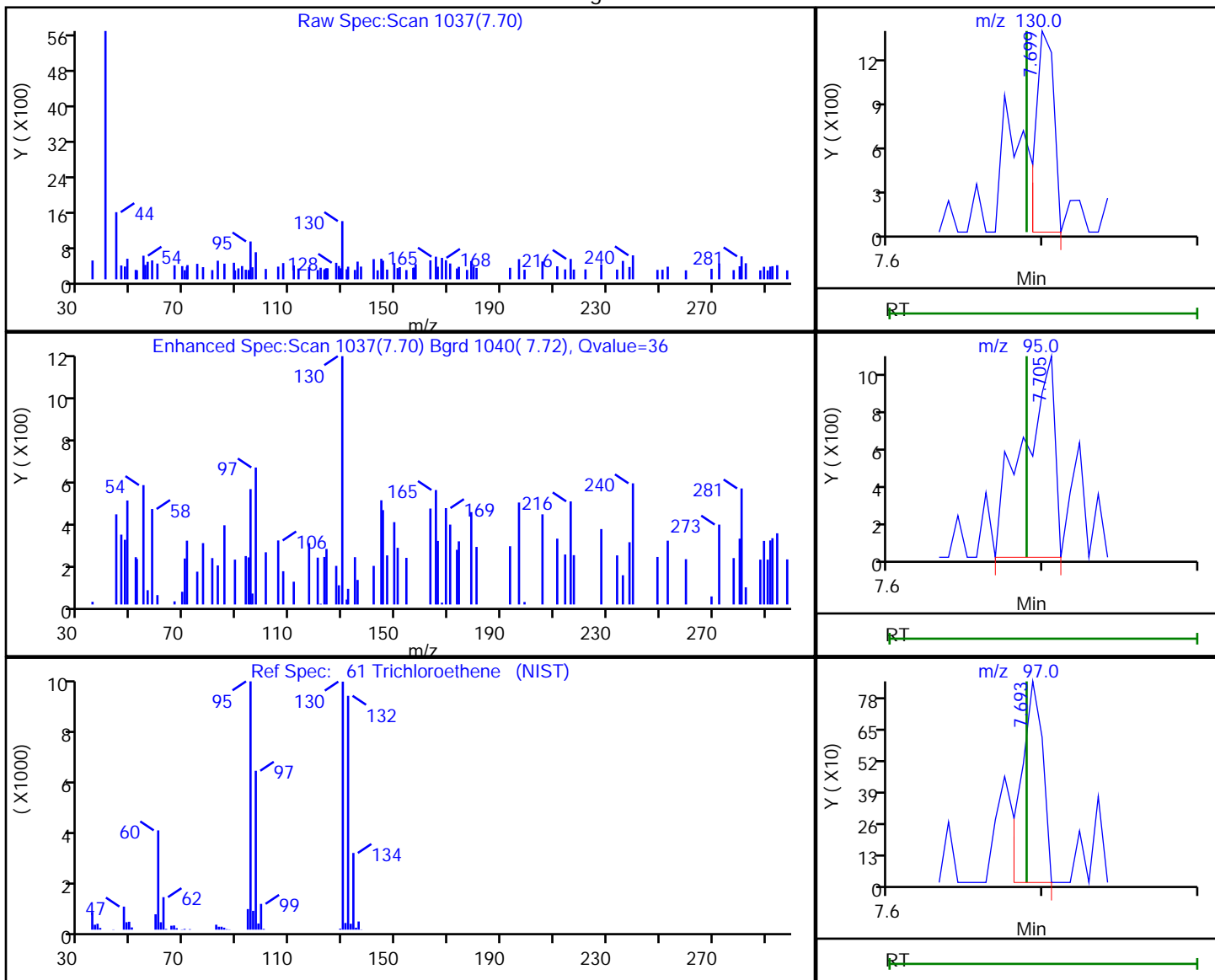
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Lims ID: 180-101459-B-13 Lab Sample ID: 180-101459-13  
 Client ID: HD-COD-SW-28-0/1-0  
 Operator ID: 433269 ALS Bottle#: 13 Worklist Smp#: 19  
 Purge Vol: 5.000 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
7.70	130.00	1074	0.356673
7.71	95.00	1479	
7.69	97.00	817	

Reviewer: bowieh, 28-Jan-2020 09:44:28

Audit Action: Marked Compound Undetected

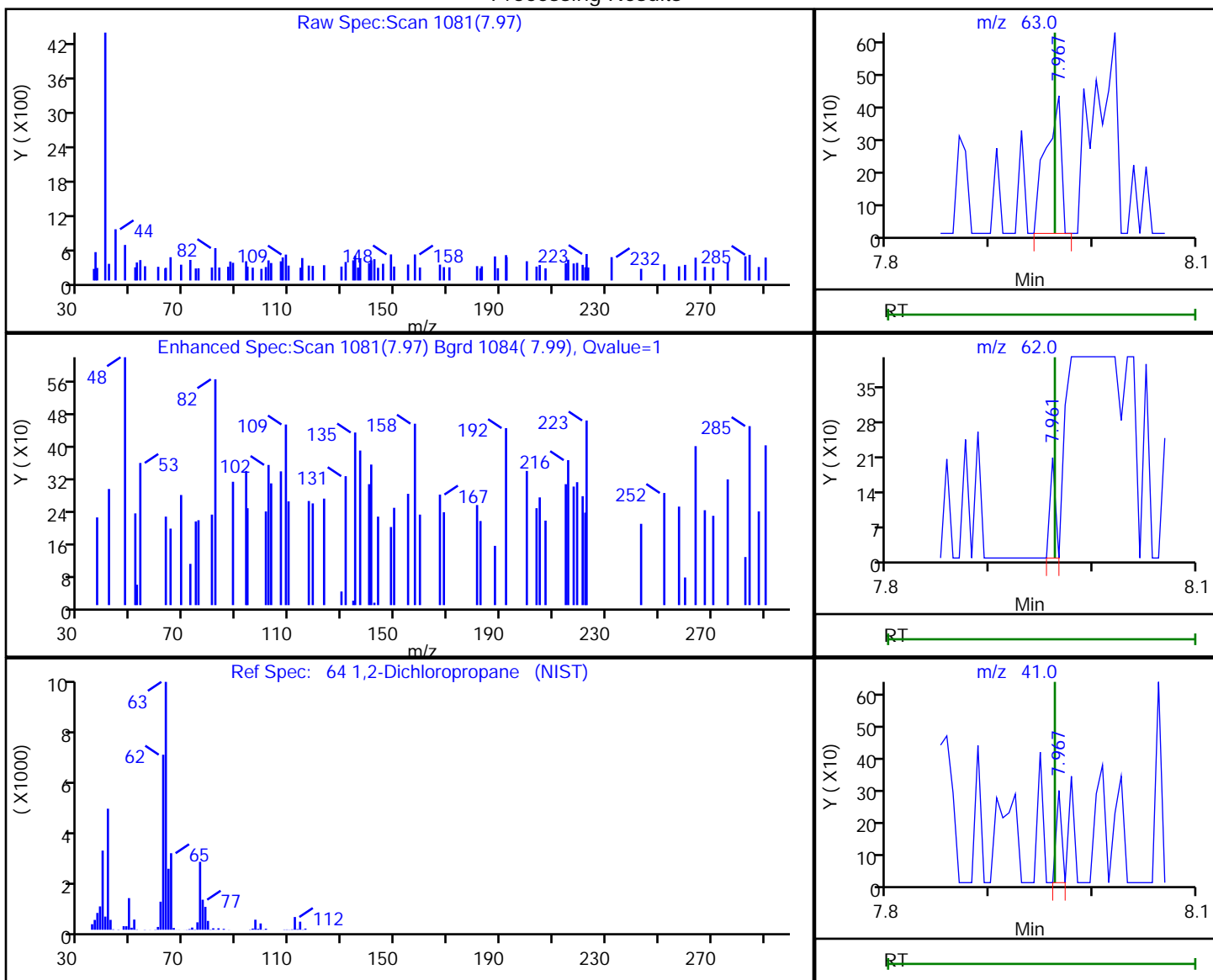
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Injection Date: 25-Jan-2020 18:54:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-13 Lab Sample ID: 180-101459-13  
 Client ID: HD-COD-SW-28-0/1-0  
 Operator ID: 433269 ALS Bottle#: 13 Worklist Smp#: 19  
 Purge Vol: 5.000 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
7.97	63.00	448	0.188398
7.96	62.00	75	
7.97	41.00	106	

Reviewer: bowieh, 28-Jan-2020 09:44:31

Audit Action: Marked Compound Undetected

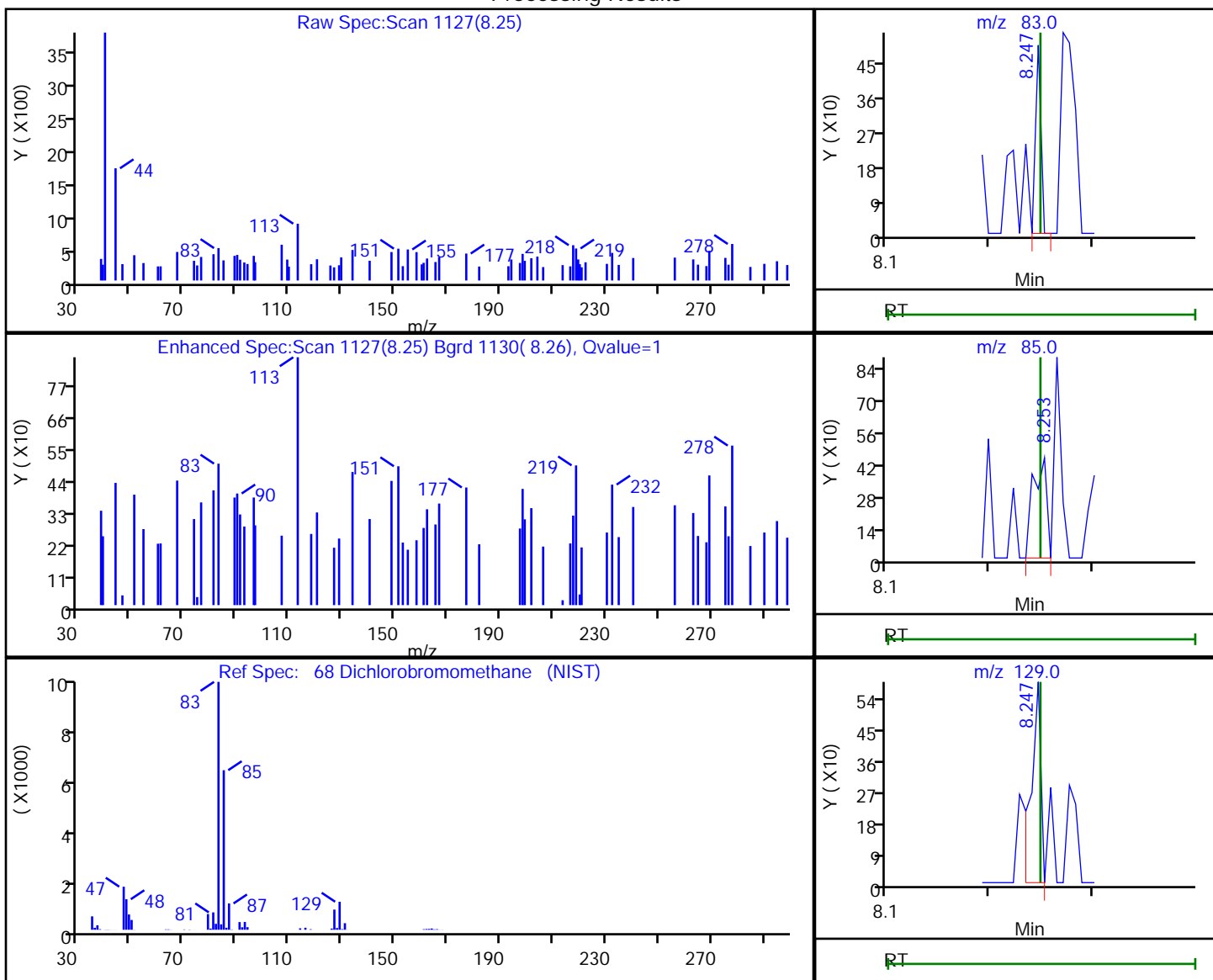
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012519.D  
 Injection Date: 25-Jan-2020 18:54:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-13 Lab Sample ID: 180-101459-13  
 Client ID: HD-COD-SW-28-0/1-0  
 Operator ID: 433269 ALS Bottle#: 13 Worklist Smp#: 19  
 Purge Vol: 5.000 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
8.25	83.00	180	0.080979
8.25	85.00	409	
8.25	129.00	384	

Reviewer: bowieh, 28-Jan-2020 09:44:32

Audit Action: Marked Compound Undetected

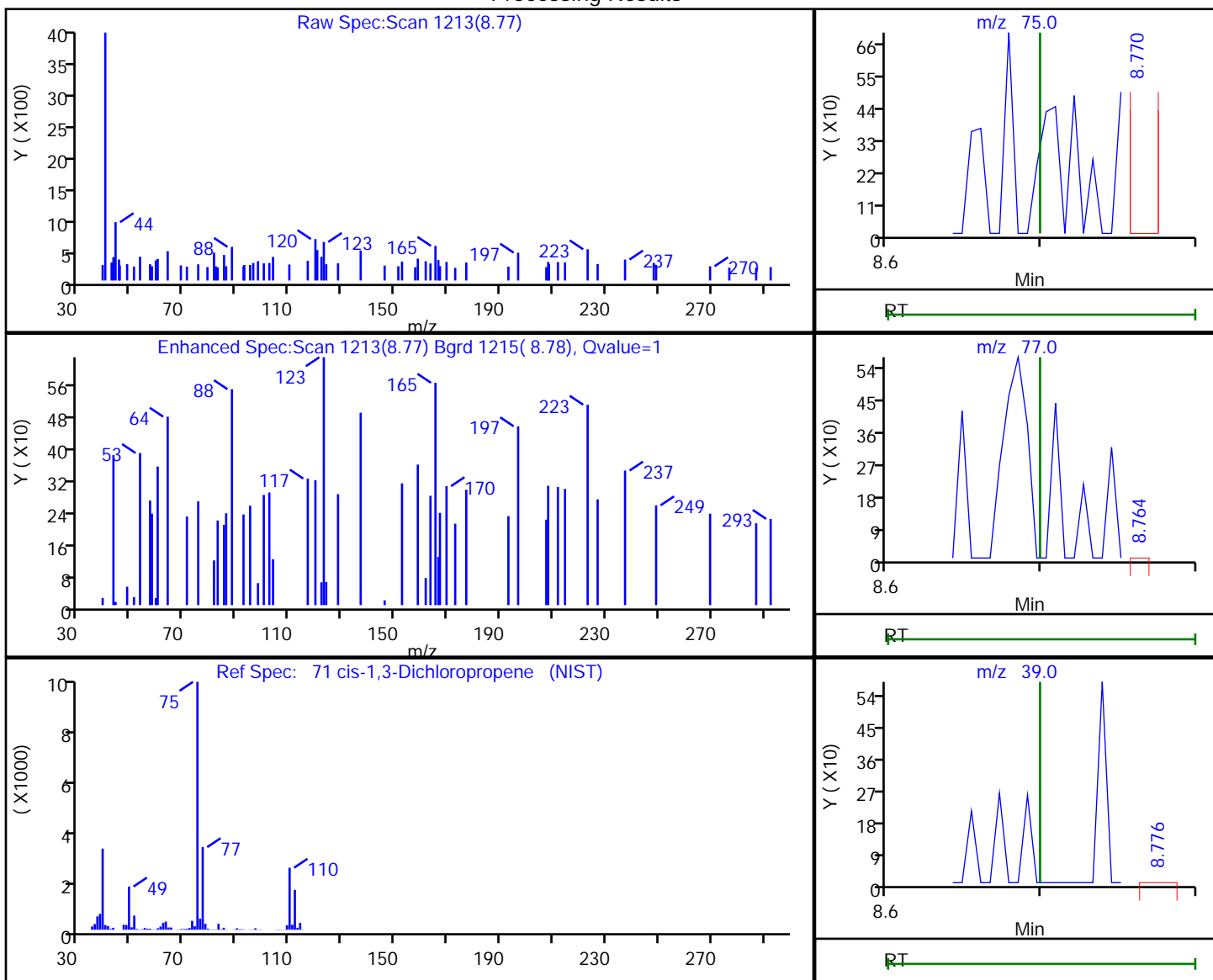
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Injection Date: 25-Jan-2020 18:54:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-13 Lab Sample ID: 180-101459-13  
 Client ID: HD-COD-SW-28-0/1-0  
 Operator ID: 433269 ALS Bottle#: 13 Worklist Smp#: 19  
 Purge Vol: 5.000 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
8.77	75.00	170	0.059141
8.76	77.00	78	
8.78	39.00	278	

Reviewer: bowieh, 28-Jan-2020 09:44:33

Audit Action: Marked Compound Undetected

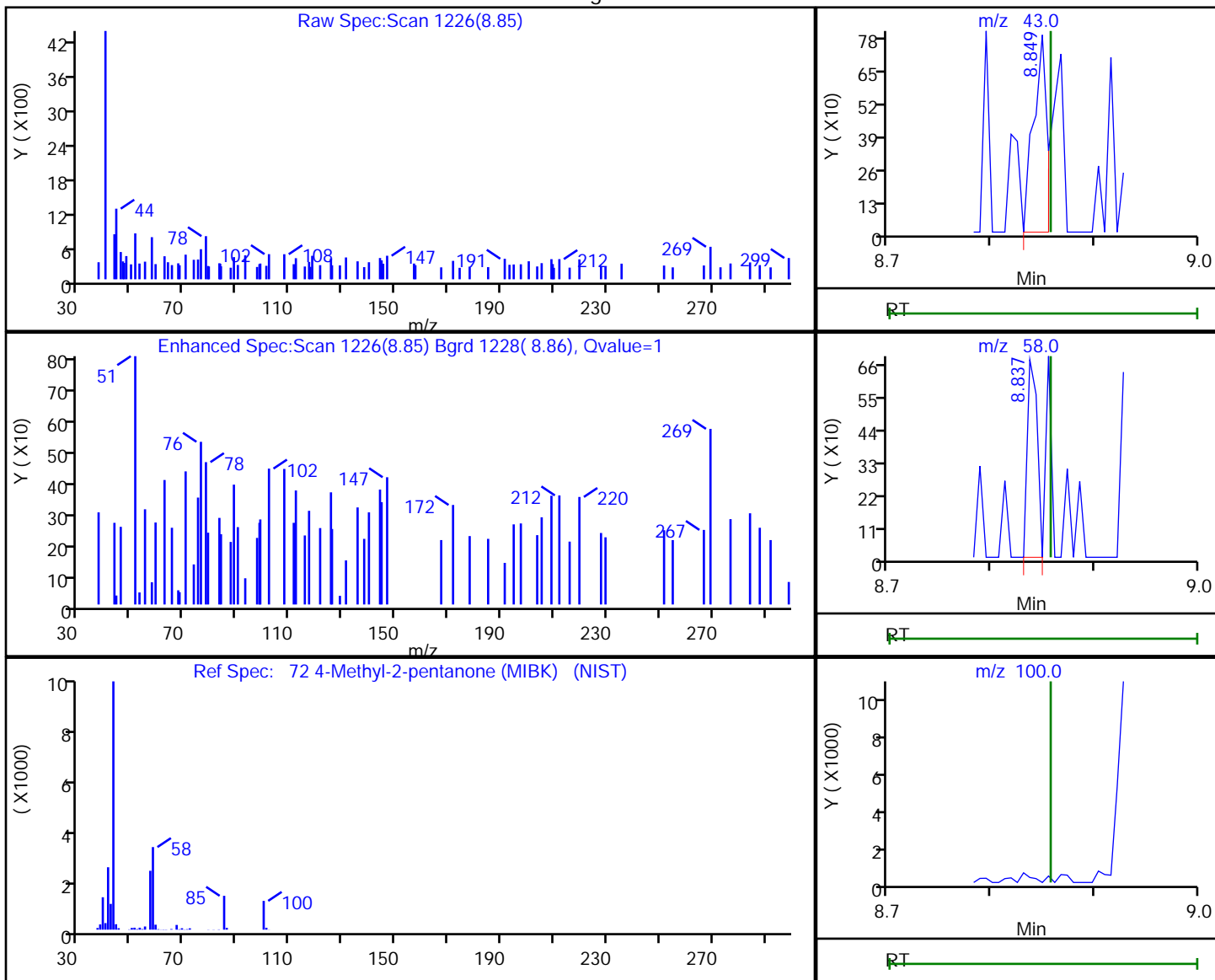
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Injection Date: 25-Jan-2020 18:54:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-13 Lab Sample ID: 180-101459-13  
 Client ID: HD-COD-SW-28-0/1-0  
 Operator ID: 433269 ALS Bottle#: 13 Worklist Smp#: 19  
 Purge Vol: 5.000 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
8.85	43.00	721	0.327988
8.84	58.00	447	
8.86	100.00	0	

Reviewer: bowieh, 28-Jan-2020 09:44:34

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Euofins TestAmerica, Pittsburgh

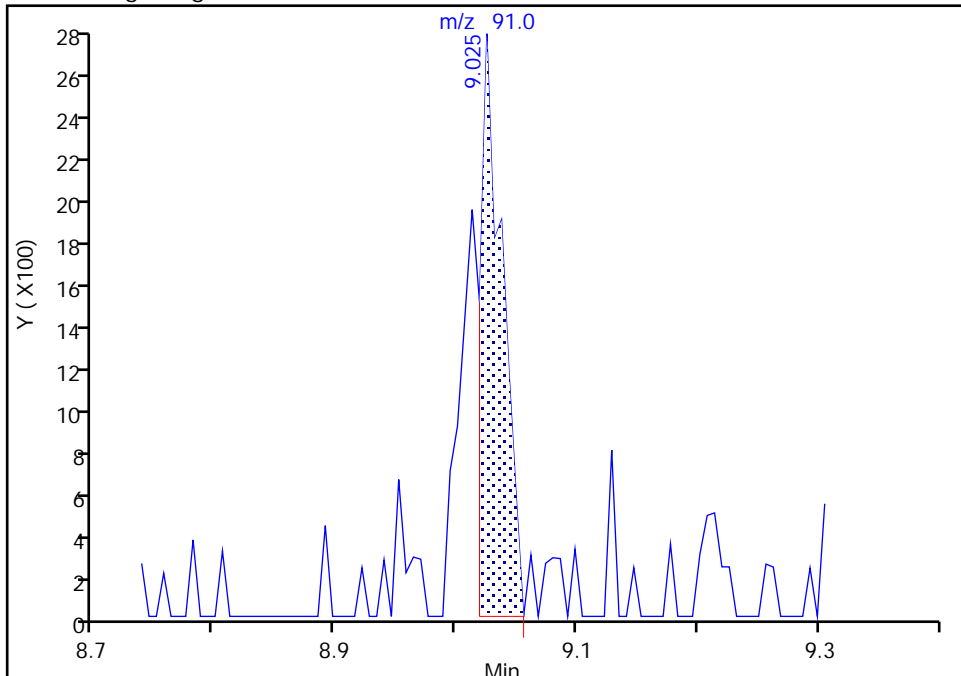
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Injection Date: 25-Jan-2020 18:54:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-13 Lab Sample ID: 180-101459-13  
Client ID: HD-COD-SW-28-0/1-0  
Operator ID: 433269 ALS Bottle#: 13 Worklist Smp#: 19  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
Column: DB-624 (0.18 mm) Detector: MS SCAN

73 Toluene, CAS: 108-88-3

Signal: 1

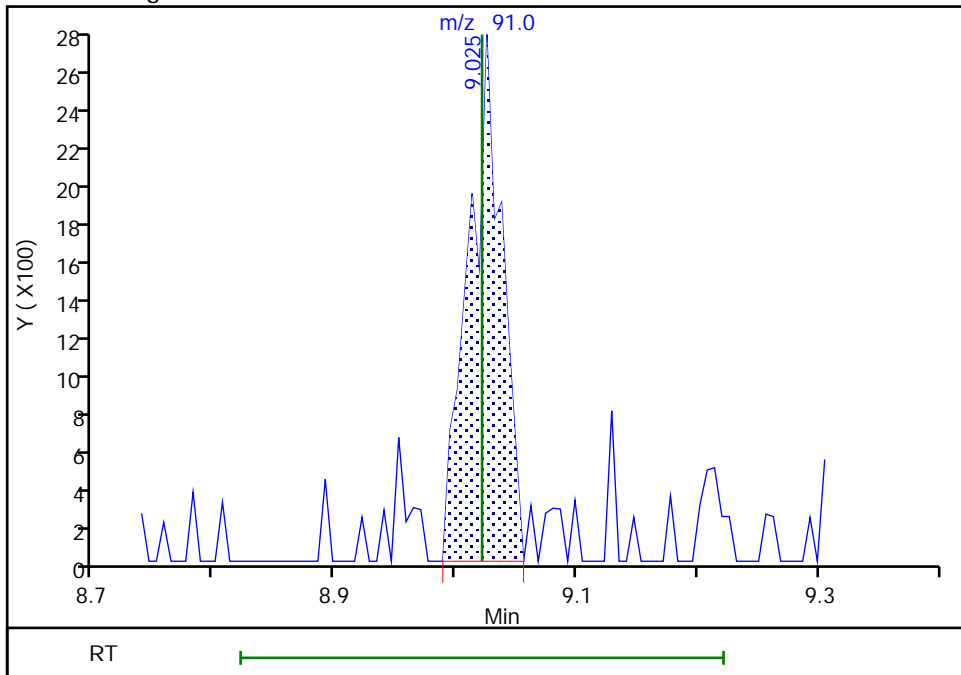
RT: 9.03  
Area: 3497  
Amount: 0.299296  
Amount Units: ng

Processing Integration Results



RT: 9.03  
Area: 5286  
Amount: 0.452411  
Amount Units: ng

Manual Integration Results



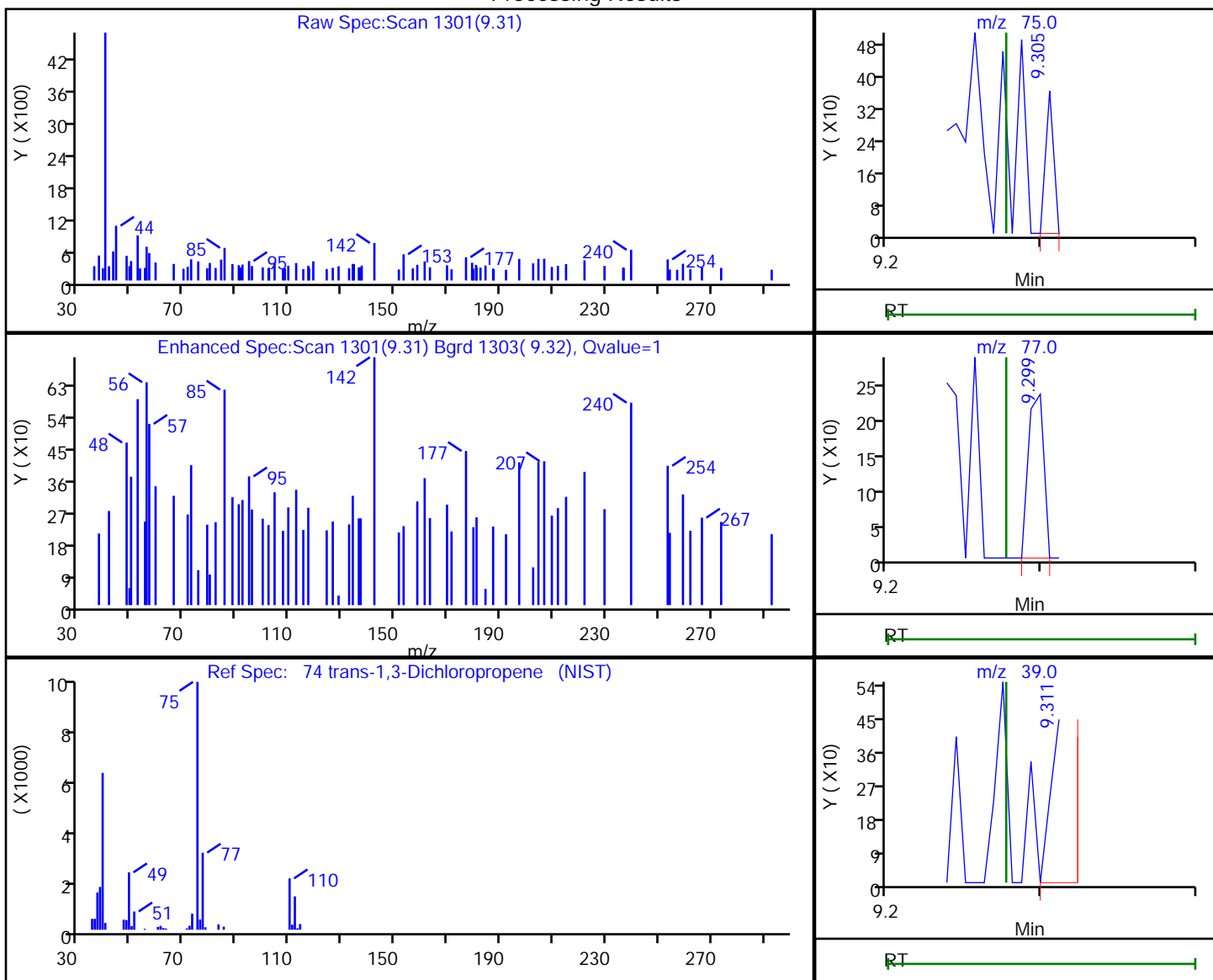
Reviewer: bowieh, 28-Jan-2020 09:44:45  
Audit Action: Manually Integrated

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012519.D  
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 Lims ID: 180-101459-B-13 Lab Sample ID: 180-101459-13  
 Client ID: HD-COD-SW-28-0/1-0  
 Operator ID: 433269 ALS Bottle#: 13 Worklist Smp#: 19  
 Purge Vol: 5.000 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
9.31	75.00	130	0.050892
9.30	77.00	161	
9.31	39.00	382	

Reviewer: bowieh, 28-Jan-2020 09:44:59

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

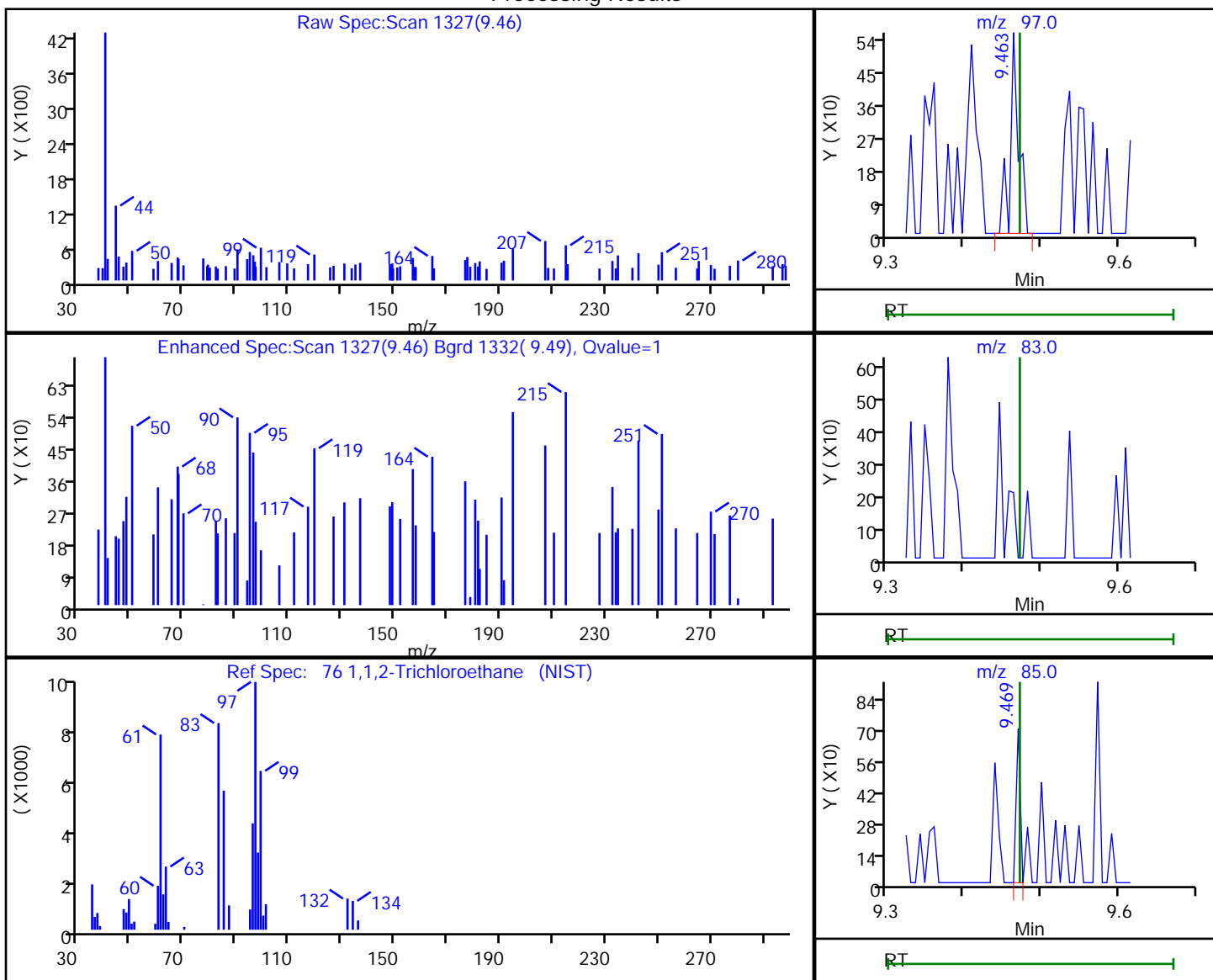


Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012519.D  
 Injection Date: 25-Jan-2020 18:54:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-13 Lab Sample ID: 180-101459-13  
 Client ID: HD-COD-SW-28-0/1-0  
 Operator ID: 433269 ALS Bottle#: 13 Worklist Smp#: 19  
 Purge Vol: 5.000 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
9.46	97.00	436	0.205110
9.47	83.00	0	
9.47	85.00	256	

Reviewer: bowieh, 28-Jan-2020 09:45:00

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

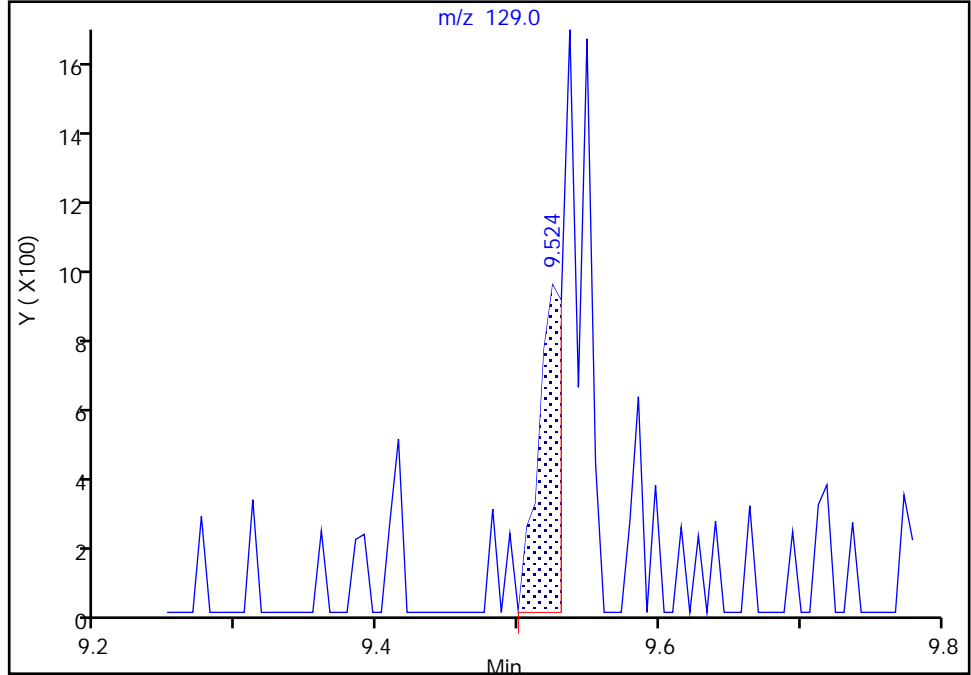
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Injection Date: 25-Jan-2020 18:54:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-13 Lab Sample ID: 180-101459-13  
Client ID: HD-COD-SW-28-0/1-0  
Operator ID: 433269 ALS Bottle#: 13 Worklist Smp#: 19  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: 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: 2

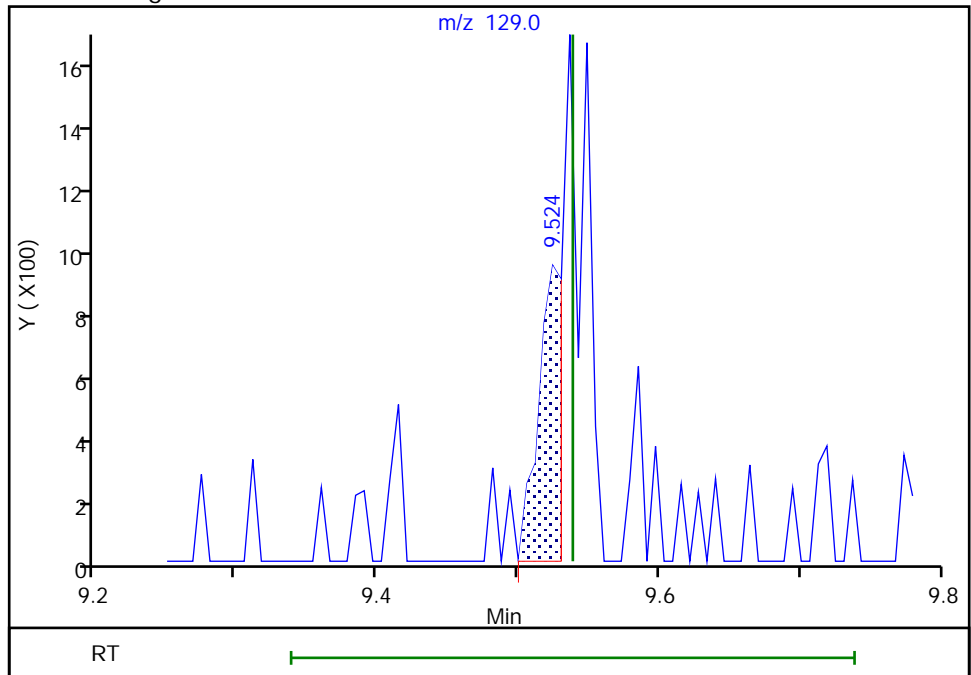
RT: 9.52  
Area: 1109  
Amount: 0.398395  
Amount Units: ng

Processing Integration Results



RT: 9.52  
Area: 1109  
Amount: 0.398395  
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 28-Jan-2020 09:45:01  
Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

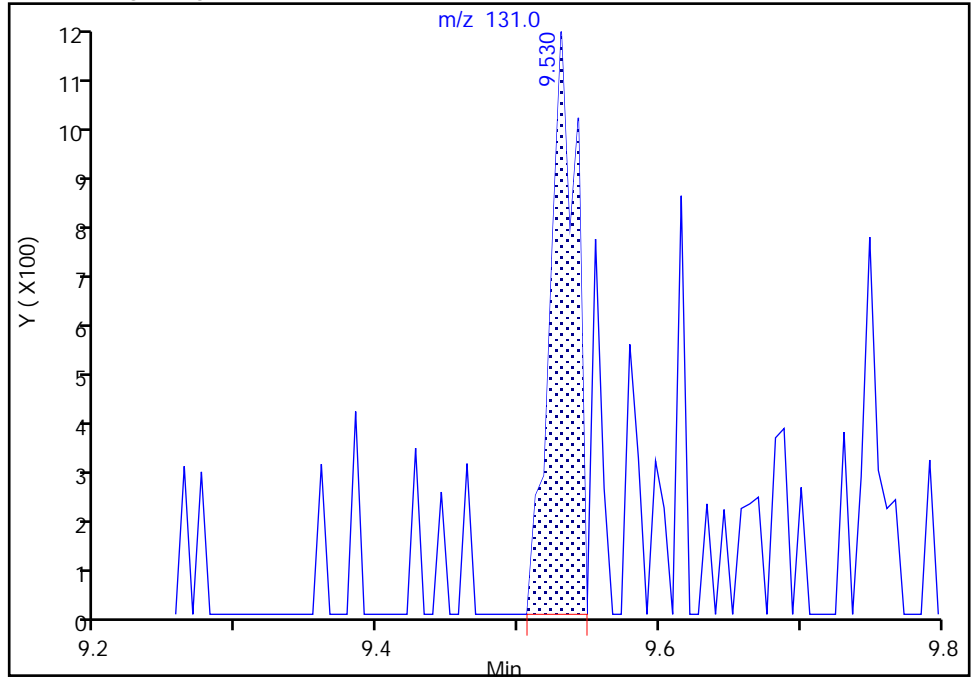
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Injection Date: 25-Jan-2020 18:54:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-13 Lab Sample ID: 180-101459-13  
Client ID: HD-COD-SW-28-0/1-0  
Operator ID: 433269 ALS Bottle#: 13 Worklist Smp#: 19  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: 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: 3

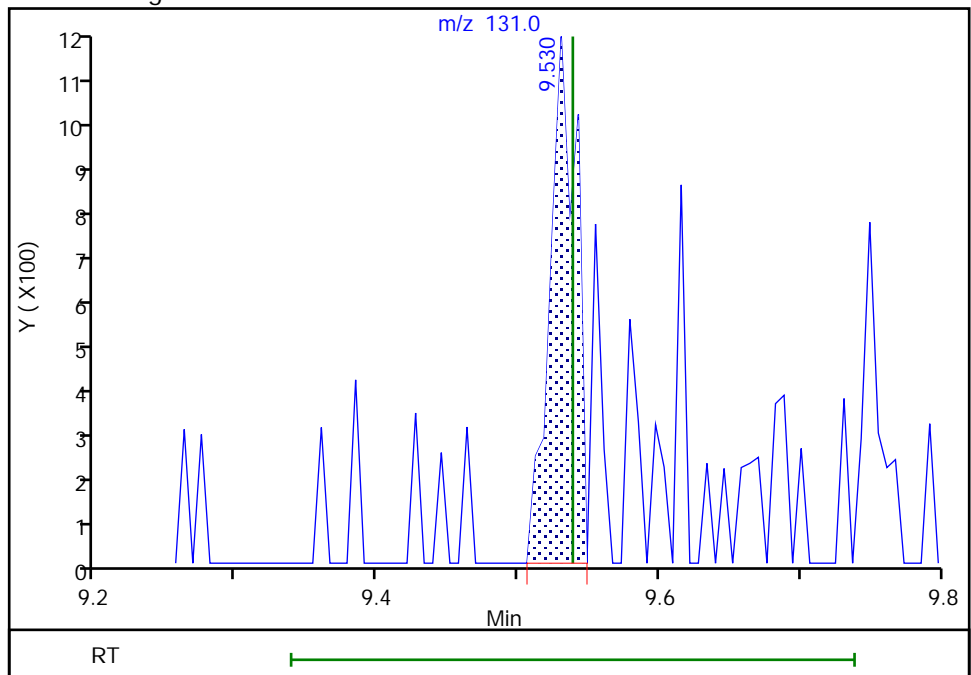
RT: 9.53  
Area: 1480  
Amount: 0.398395  
Amount Units: ng

Processing Integration Results



RT: 9.53  
Area: 1480  
Amount: 0.398395  
Amount Units: ng

Manual Integration Results

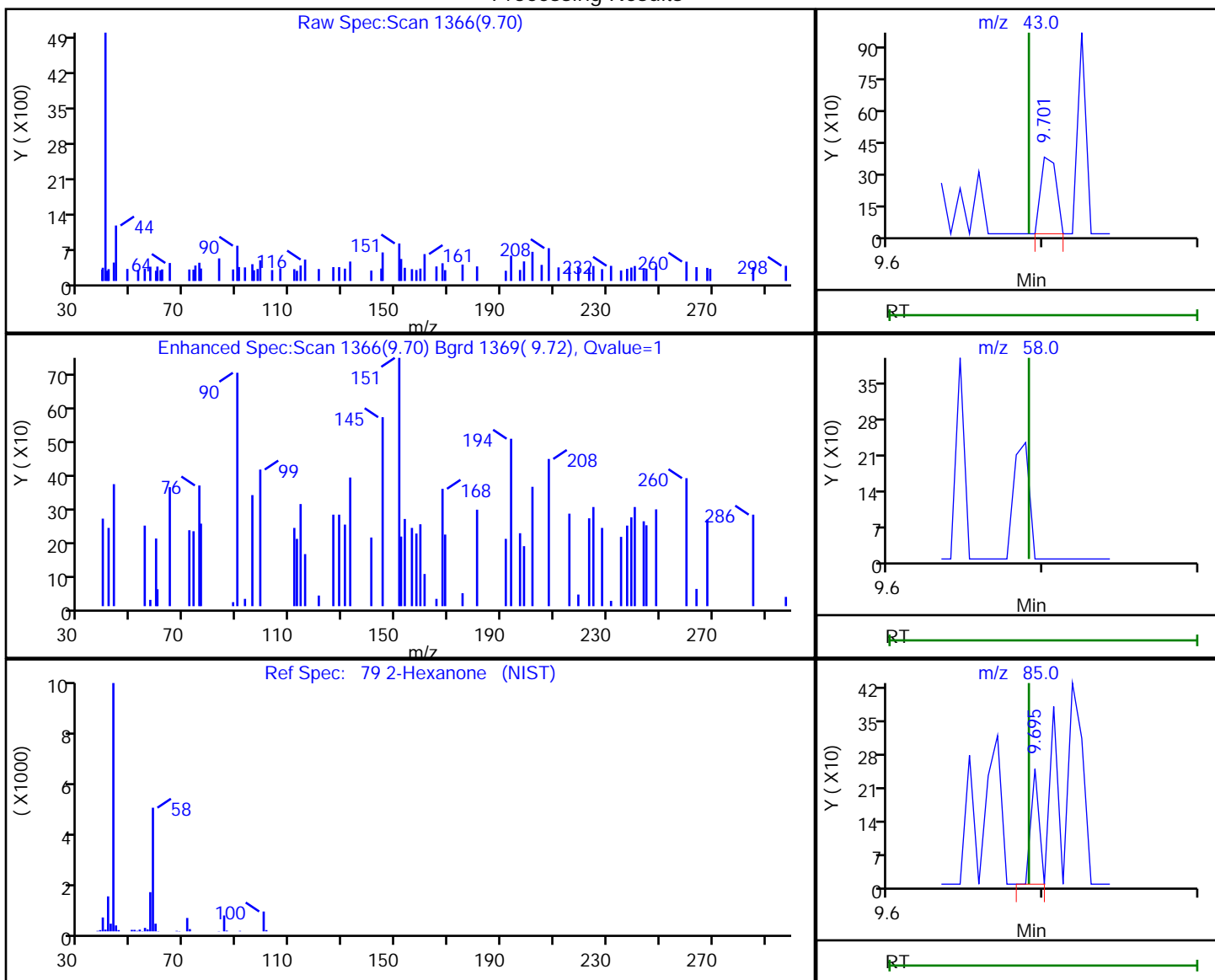


Eurofins TestAmerica, Pittsburgh

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 Injection Date: 25-Jan-2020 18:54:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-13 Lab Sample ID: 180-101459-13  
 Client ID: HD-COD-SW-28-0/1-0  
 Operator ID: 433269 ALS Bottle#: 13 Worklist Smp#: 19  
 Purge Vol: 5.000 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
9.70	43.00	258	0.136249
9.69	58.00	0	
9.69	85.00	90	

Reviewer: bowieh, 28-Jan-2020 09:45:04

Audit Action: Marked Compound Undetected

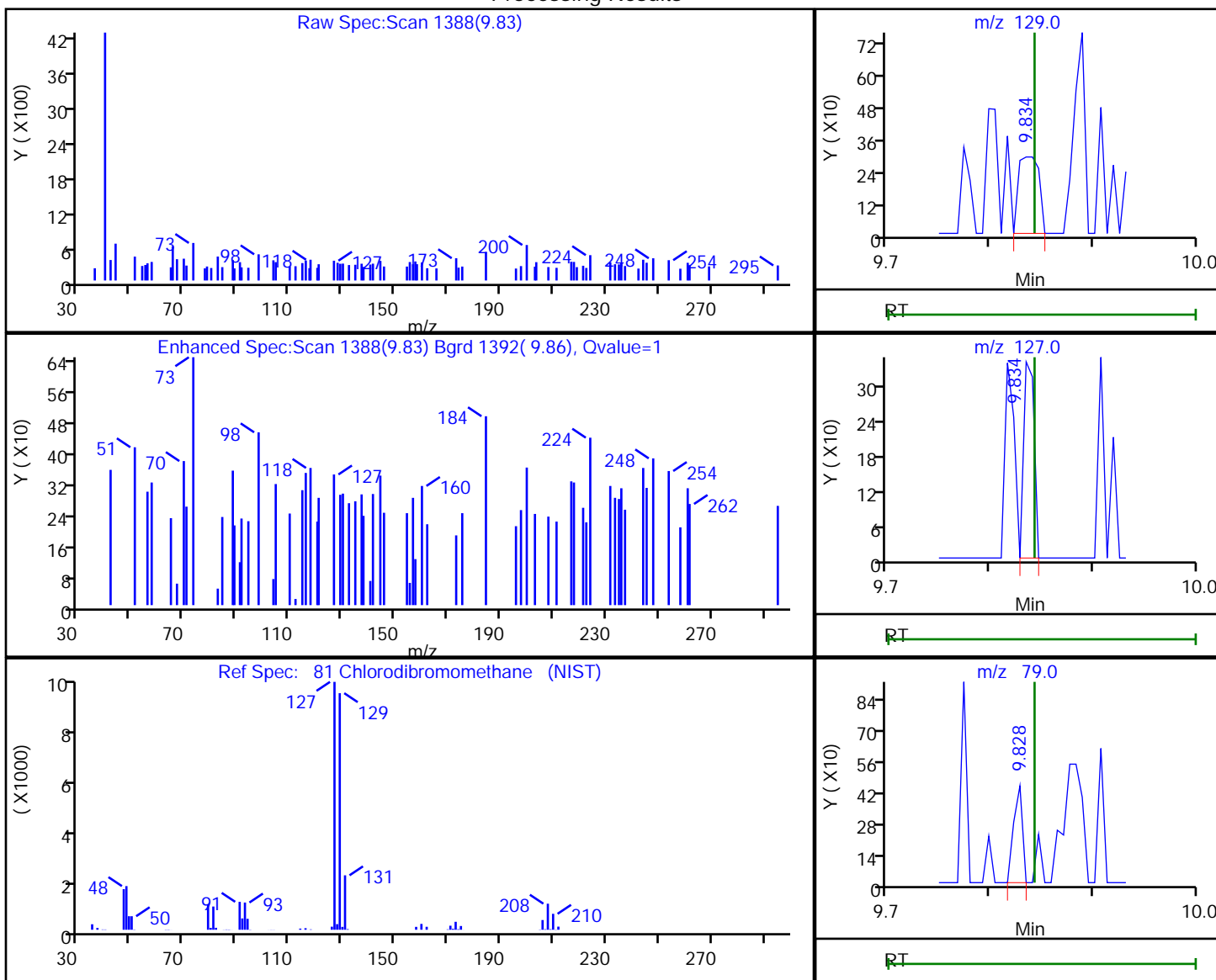
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Injection Date: 25-Jan-2020 18:54:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-13 Lab Sample ID: 180-101459-13  
 Client ID: HD-COD-SW-28-0/1-0  
 Operator ID: 433269 ALS Bottle#: 13 Worklist Smp#: 19  
 Purge Vol: 5.000 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
9.83	129.00	400	0.222801
9.83	127.00	239	
9.83	79.00	262	

Reviewer: bowieh, 28-Jan-2020 09:45:05

Audit Action: Marked Compound Undetected

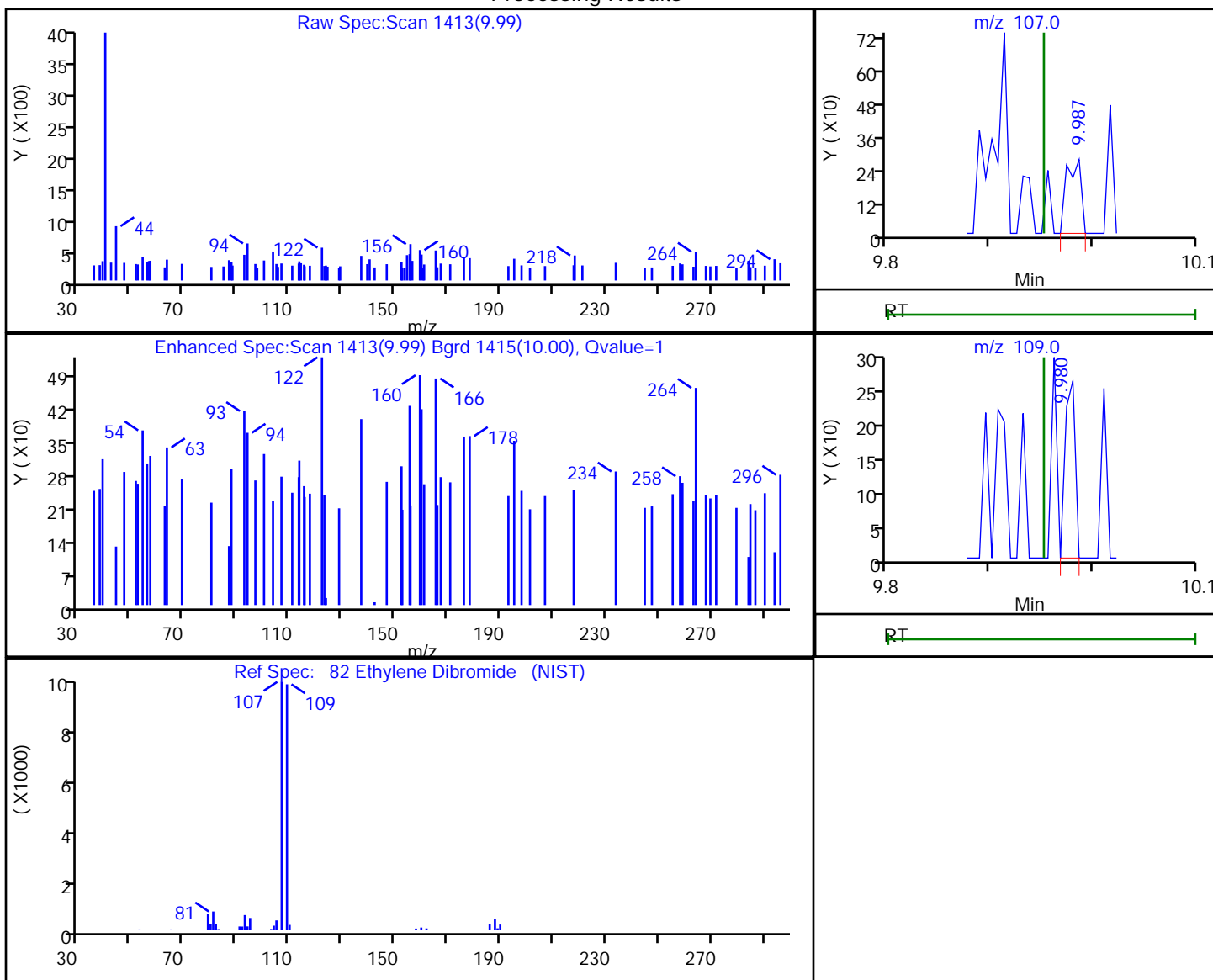
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012519.D  
Injection Date: 25-Jan-2020 18:54:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-13 Lab Sample ID: 180-101459-13  
Client ID: HD-COD-SW-28-0/1-0  
Operator ID: 433269 ALS Bottle#: 13 Worklist Smp#: 19  
Purge Vol: 5.000 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
9.99	107.00	266	0.126795
9.98	109.00	178	

Reviewer: bowieh, 28-Jan-2020 09:45:07

Audit Action: Marked Compound Undetected

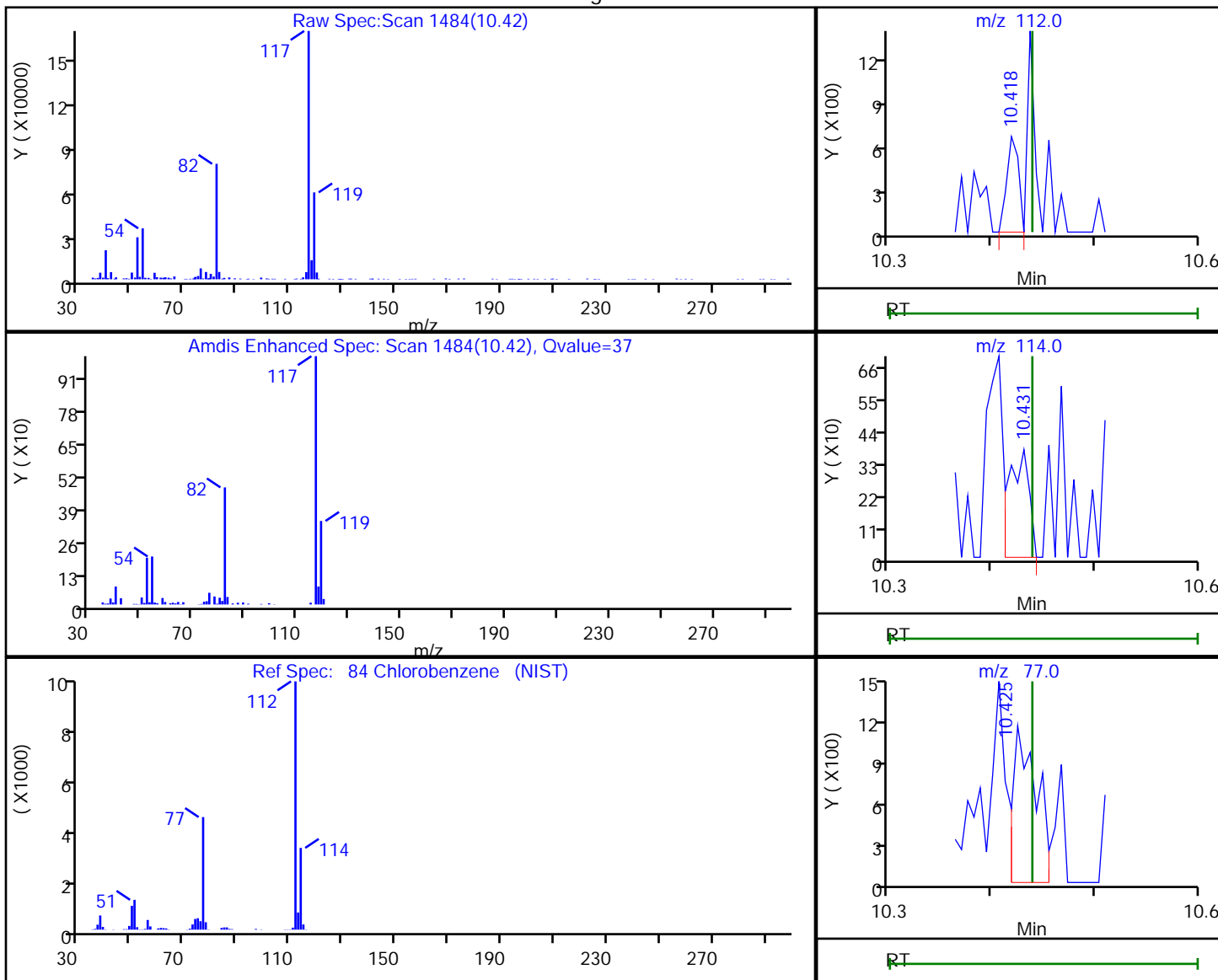
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Injection Date: 25-Jan-2020 18:54:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-13 Lab Sample ID: 180-101459-13  
 Client ID: HD-COD-SW-28-0/1-0  
 Operator ID: 433269 ALS Bottle#: 13 Worklist Smp#: 19  
 Purge Vol: 5.000 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
10.42	112.00	532	0.068306
10.43	114.00	507	
10.42	77.00	1758	

Reviewer: bowieh, 28-Jan-2020 09:45:08

Audit Action: Marked Compound Undetected

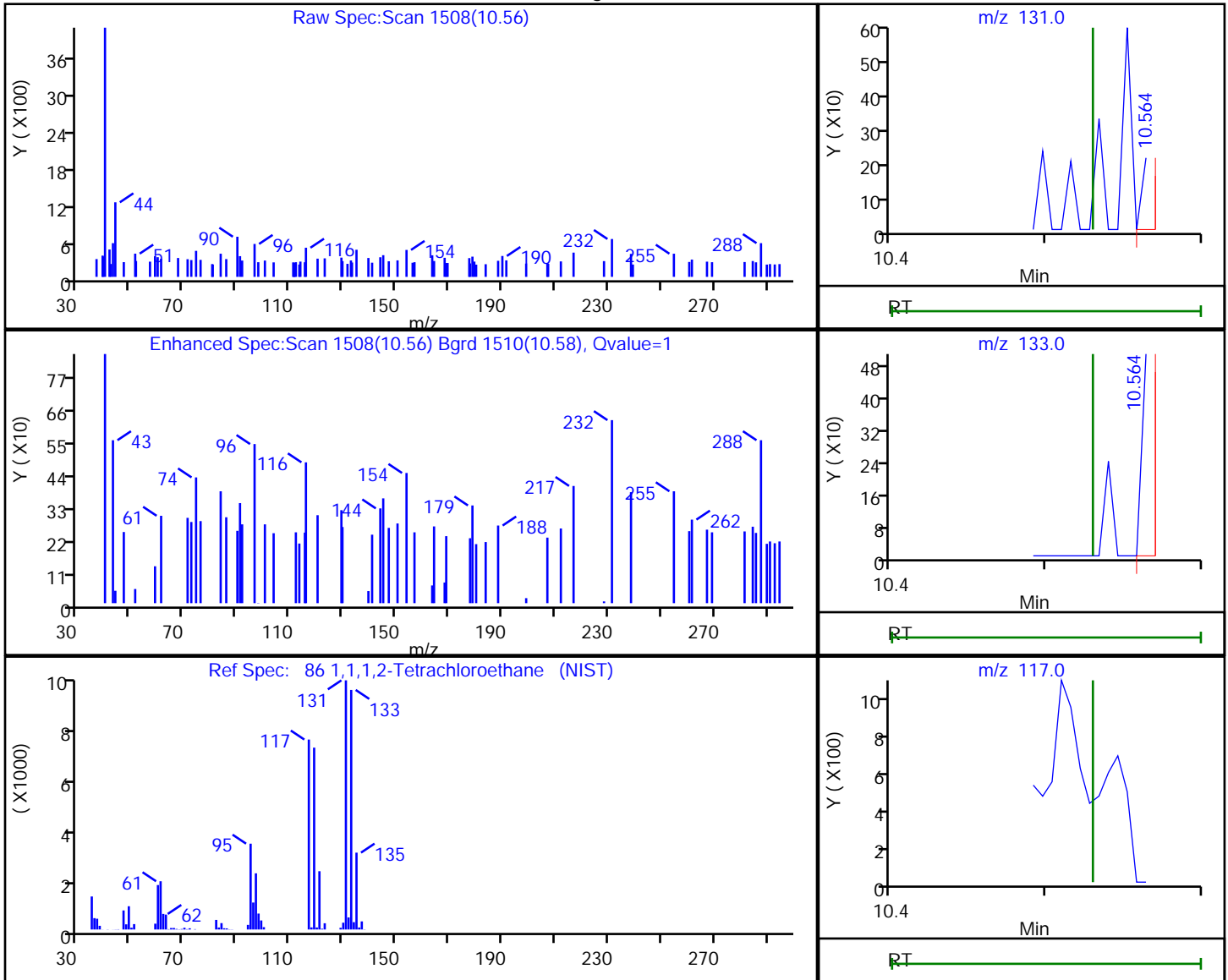
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Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012519.D  
 Injection Date: 25-Jan-2020 18:54:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-13 Lab Sample ID: 180-101459-13  
 Client ID: HD-COD-SW-28-0/1-0  
 Operator ID: 433269 ALS Bottle#: 13 Worklist Smp#: 19  
 Purge Vol: 5.000 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
10.56	131.00	78	0.034094
10.56	133.00	184	
10.53	117.00	0	

Reviewer: bowieh, 28-Jan-2020 09:45:09

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

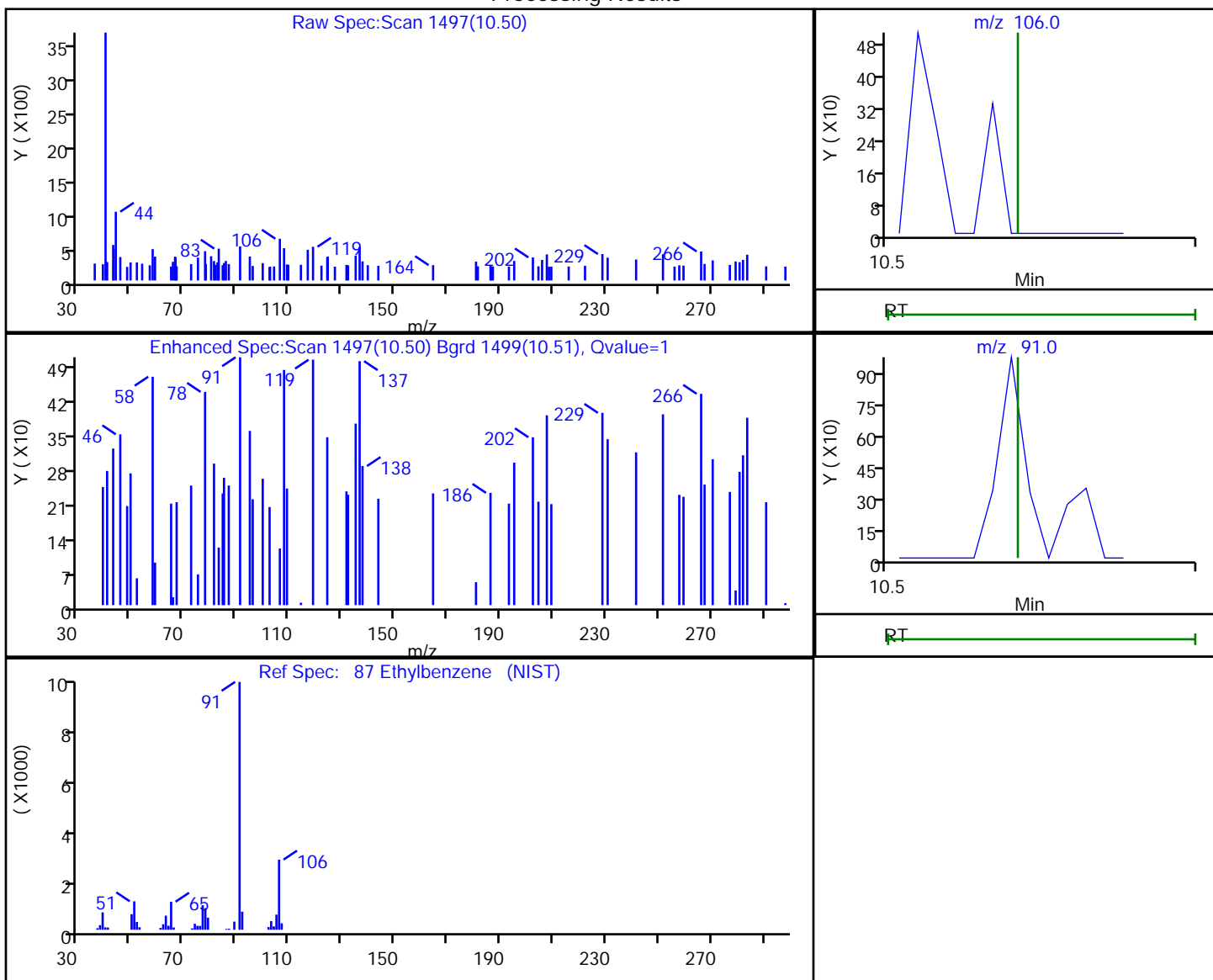


Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012519.D  
 Injection Date: 25-Jan-2020 18:54:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-13 Lab Sample ID: 180-101459-13  
 Client ID: HD-COD-SW-28-0/1-0  
 Operator ID: 433269 ALS Bottle#: 13 Worklist Smp#: 19  
 Purge Vol: 5.000 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
10.50	106.00	227	0.050930
10.50	91.00	185	

Reviewer: bowieh, 28-Jan-2020 09:45:10

Audit Action: Marked Compound Undetected

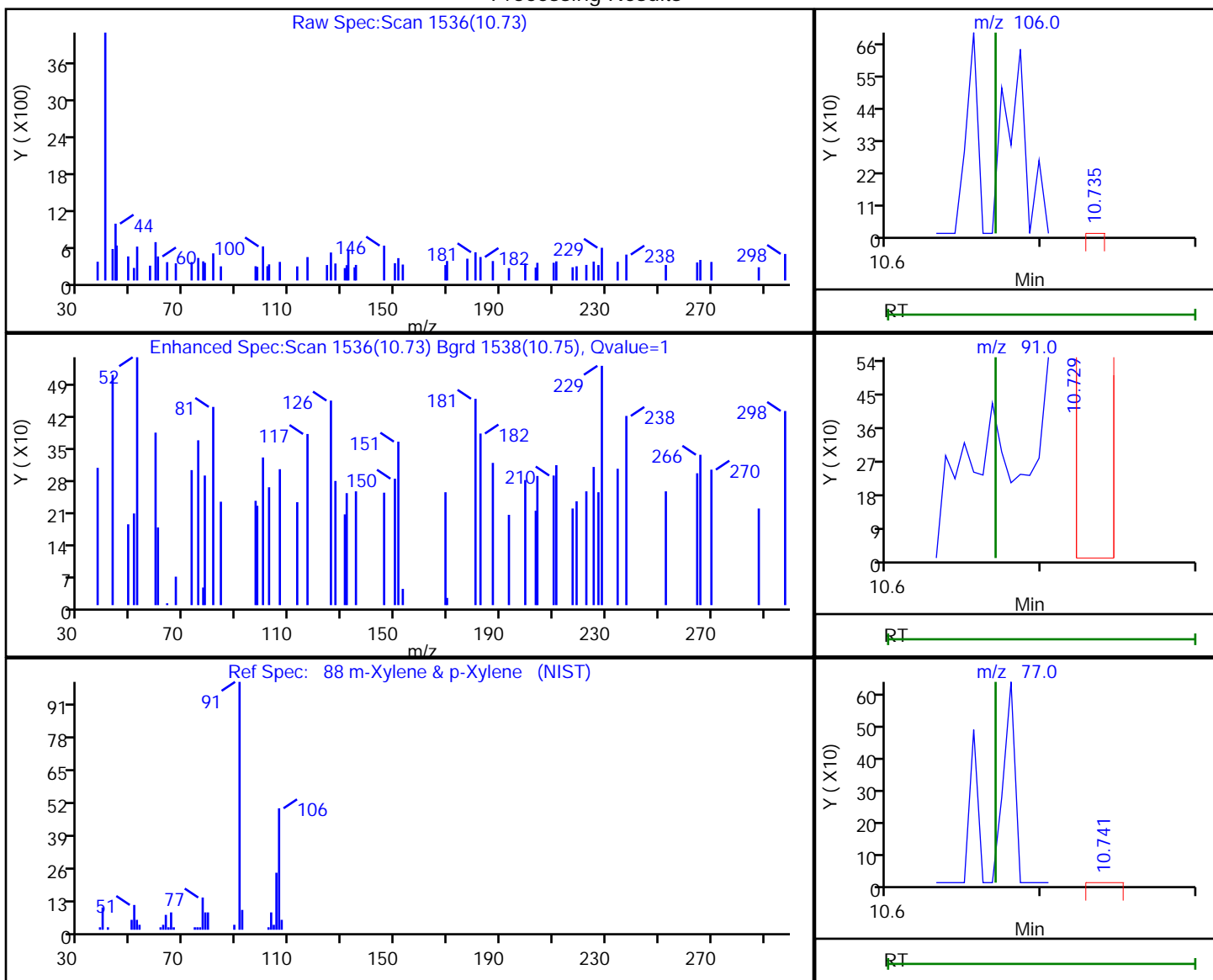
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012519.D  
 Injection Date: 25-Jan-2020 18:54:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-13 Lab Sample ID: 180-101459-13  
 Client ID: HD-COD-SW-28-0/1-0  
 Operator ID: 433269 ALS Bottle#: 13 Worklist Smp#: 19  
 Purge Vol: 5.000 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
10.73	106.00	110	0.020588
10.73	91.00	342	
10.74	77.00	337	

Reviewer: bowieh, 28-Jan-2020 09:45:11

Audit Action: Marked Compound Undetected

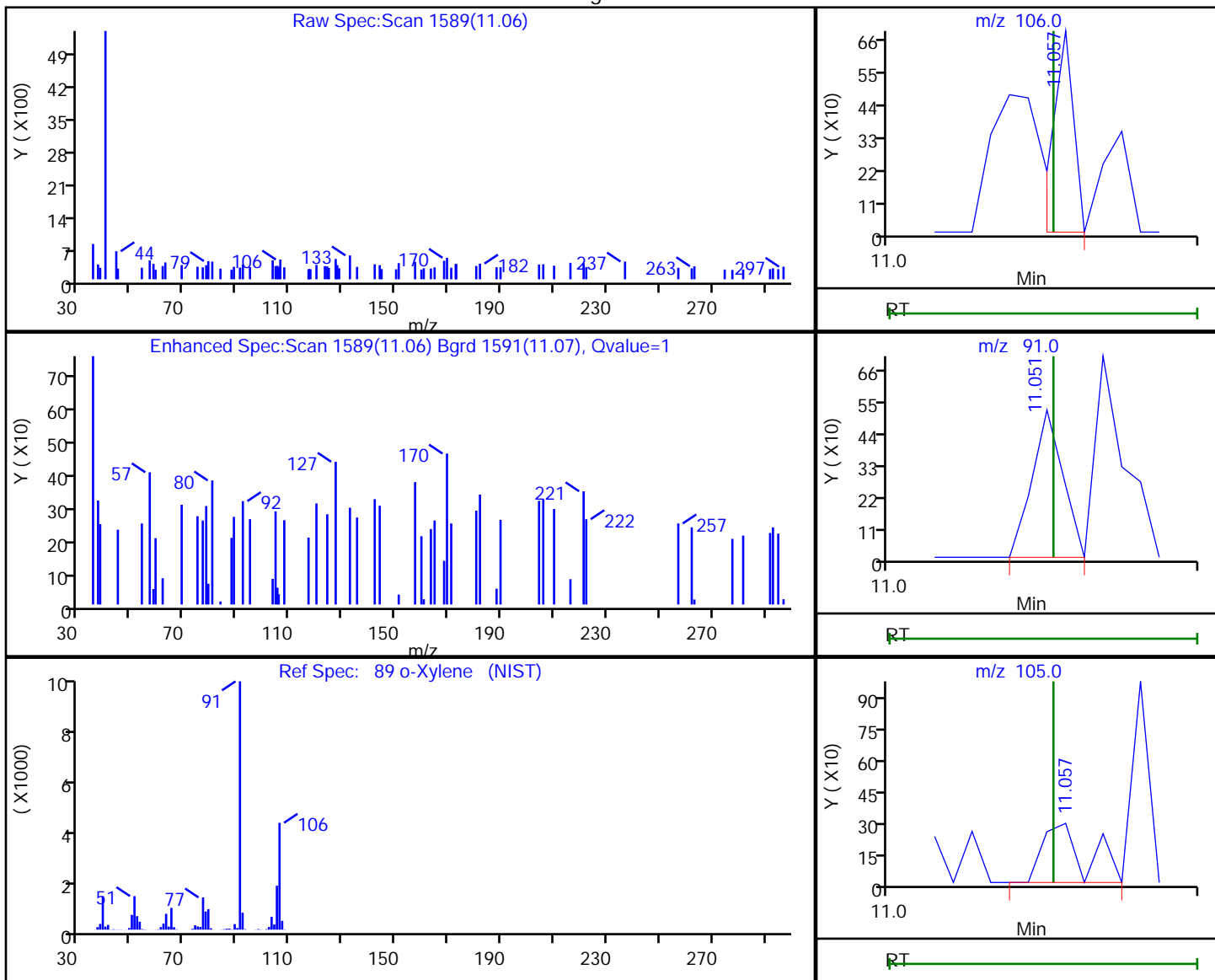
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012519.D  
Injection Date: 25-Jan-2020 18:54:30 Instrument ID: CHHP6  
Lims ID: 180-101459-B-13 Lab Sample ID: 180-101459-13  
Client ID: HD-COD-SW-28-0/1-0  
Operator ID: 433269 ALS Bottle#: 13 Worklist Smp#: 19  
Purge Vol: 5.000 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
11.06	106.00	326	0.064127
11.05	91.00	357	
11.06	105.00	282	

Reviewer: bowieh, 28-Jan-2020 09:45:13

Audit Action: Marked Compound Undetected

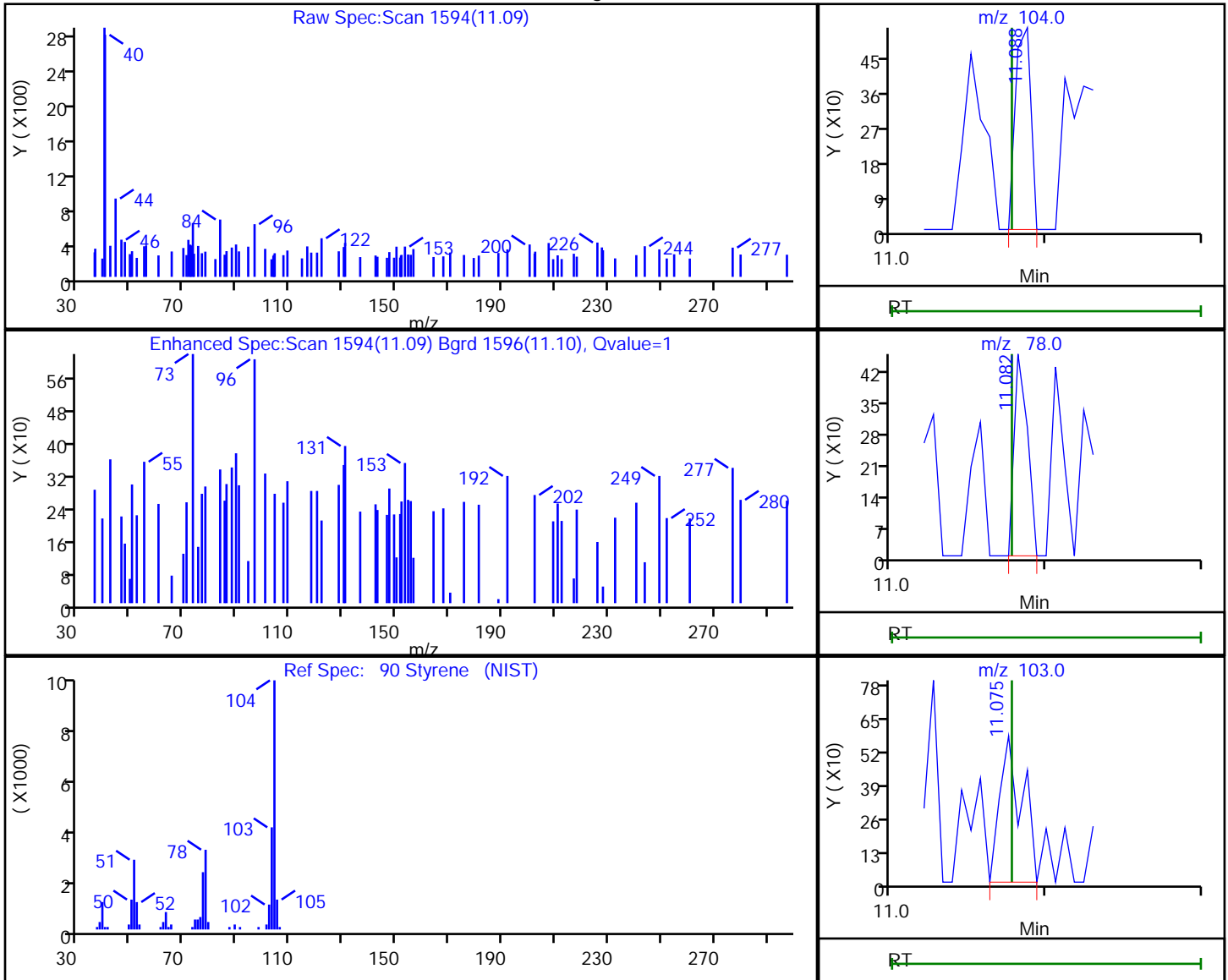
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012519.D  
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 Lims ID: 180-101459-B-13 Lab Sample ID: 180-101459-13  
 Client ID: HD-COD-SW-28-0/1-0  
 Operator ID: 433269 ALS Bottle#: 13 Worklist Smp#: 19  
 Purge Vol: 5.000 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
11.09	104.00	361	0.044826
11.08	78.00	270	
11.08	103.00	572	

Reviewer: bowieh, 28-Jan-2020 09:45:14

Audit Action: Marked Compound Undetected

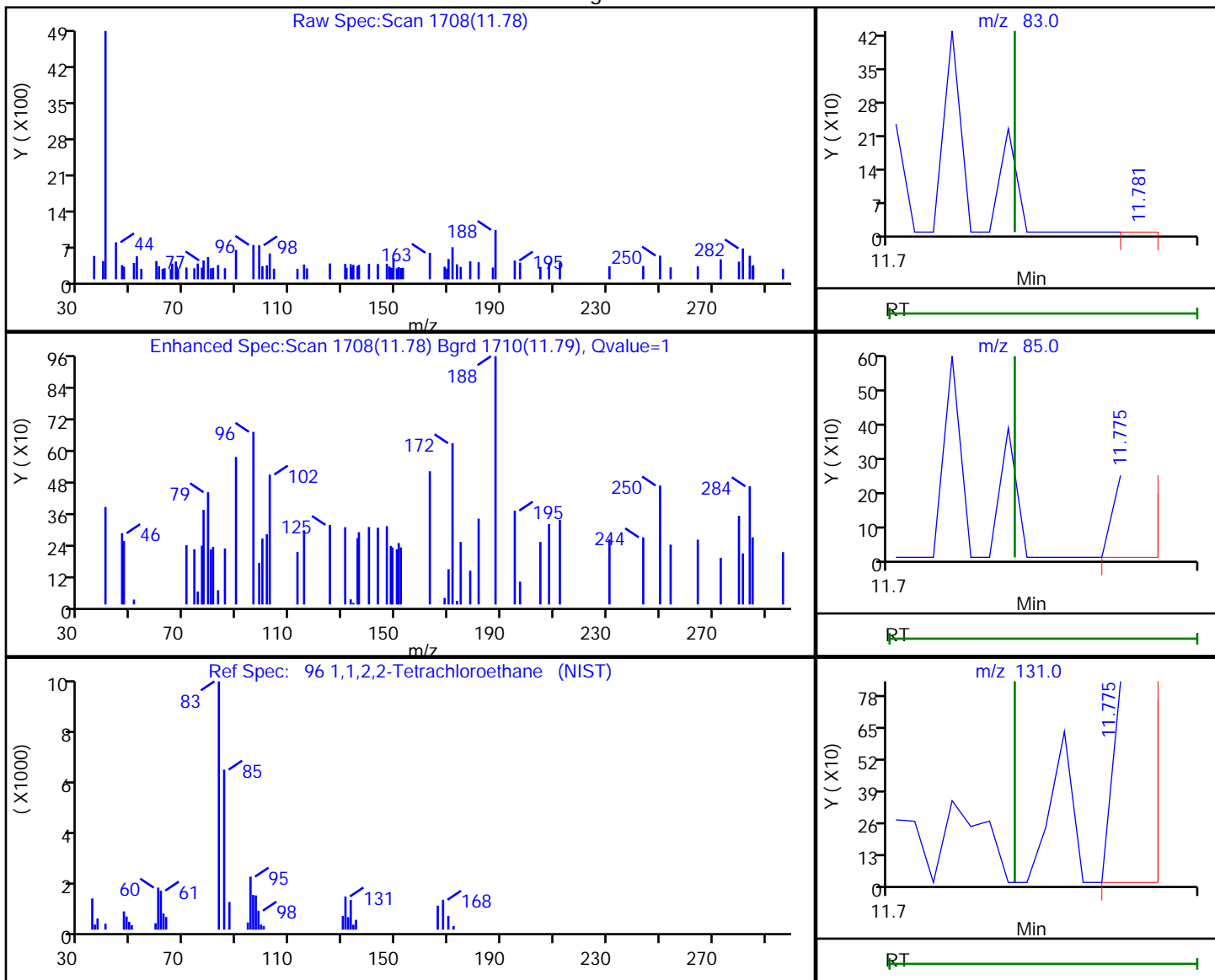
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012519.D  
 Injection Date: 25-Jan-2020 18:54:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-13 Lab Sample ID: 180-101459-13  
 Client ID: HD-COD-SW-28-0/1-0  
 Operator ID: 433269 ALS Bottle#: 13 Worklist Smp#: 19  
 Purge Vol: 5.000 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
11.78	83.00	100	0.044135
11.78	85.00	168	
11.78	131.00	495	

Reviewer: bowieh, 28-Jan-2020 09:45:16

Audit Action: Marked Compound Undetected

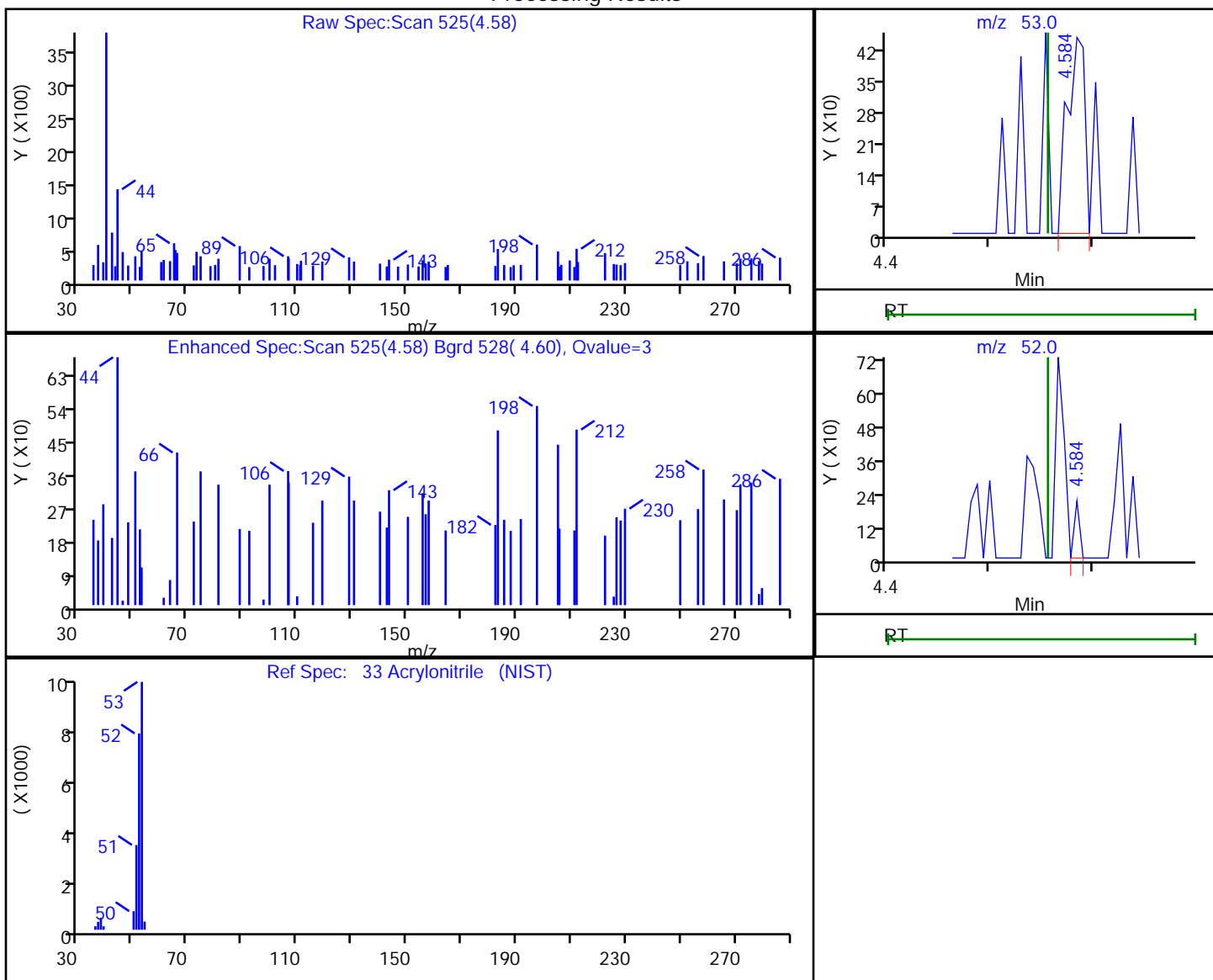
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012519.D  
 Injection Date: 25-Jan-2020 18:54:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-B-13 Lab Sample ID: 180-101459-13  
 Client ID: HD-COD-SW-28-0/1-0  
 Operator ID: 433269 ALS Bottle#: 13 Worklist Smp#: 19  
 Purge Vol: 5.000 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
4.58	53.00	525	0.568579
4.58	52.00	75	

Reviewer: bowieh, 28-Jan-2020 09:44:14

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.: 180-101459-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: HD-QC1-0/1-2 Lab Sample ID: 180-101459-14  
 Matrix: Water Lab File ID: 6012520.D  
 Analysis Method: EPA 8260C Date Collected: 01/23/2020 00:00  
 Sample wt/vol: 5 (mL) Date Analyzed: 01/25/2020 19:21  
 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.: 304996 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	ND	^c	1.0	0.88
74-83-9	Bromomethane	ND	^c	1.0	0.89
75-00-3	Chloroethane	ND	^c	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.: 180-101459-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: HD-QC1-0/1-2 Lab Sample ID: 180-101459-14  
 Matrix: Water Lab File ID: 6012520.D  
 Analysis Method: EPA 8260C Date Collected: 01/23/2020 00:00  
 Sample wt/vol: 5 (mL) Date Analyzed: 01/25/2020 19:21  
 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.: 304996 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)	130		70-150
2037-26-5	Toluene-d8 (Surr)	90		78-128
460-00-4	4-Bromofluorobenzene (Surr)	76		64-123
1868-53-7	Dibromofluoromethane (Surr)	119		75-147



Eurofins TestAmerica, Pittsburgh  
Target Compound Quantitation Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012520.D  
 Lims ID: 180-101459-A-14  
 Client ID: HD-QC1-0/1-2  
 Sample Type: Client  
 Inject. Date: 25-Jan-2020 19:21:30 ALS Bottle#: 14 Worklist Smp#: 20  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 180-0030512-020  
 Misc. Info.: 180-101459-a-14  
 Operator ID: 433269 Instrument ID: CHHP6  
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\MSVOA\_LL\_CHHP6.m  
 Limit Group: VOA 8260C\_D ICAL  
 Last Update: 28-Jan-2020 09:46:25 Calib Date: 31-Dec-2019 16:03:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123111.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0335

First Level Reviewer: bowieh

Date: 28-Jan-2020 09:46:25

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.313	4.319	-0.006	87	142784	1000.0	
* 2 Fluorobenzene (IS)	96	7.300	7.306	-0.006	99	440592	50.0	
* 3 Chlorobenzene-d5	119	10.409	10.408	0.001	84	123853	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.757	12.757	0.000	93	161718	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.576	6.582	-0.006	94	117799	59.3	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.953	6.953	0.000	96	133950	64.8	
\$ 7 Toluene-d8 (Surr)	98	8.961	8.954	0.007	94	414983	45.2	
\$ 8 4-Bromofluorobenzene (Surr	95	11.595	11.595	0.000	0	125062	38.2	
12 Chloromethane	50		1.837				ND	U
13 Vinyl chloride	62		1.952				ND	U
15 Bromomethane	94		2.287				ND	U
16 Chloroethane	64		2.421				ND	U
22 1,1-Dichloroethene	96		3.370				ND	
24 Acetone	43		3.473				ND	U
26 Carbon disulfide	76		3.662				ND	U
31 Methylene Chloride	84		4.155				ND	
33 Acrylonitrile	53		4.556				ND	U
34 trans-1,2-Dichloroethene	96		4.574				ND	U
35 Methyl tert-butyl ether	73		4.611				ND	U
37 1,1-Dichloroethane	63		5.219				ND	
43 cis-1,2-Dichloroethene	96		5.967				ND	U
44 2-Butanone (MEK)	43		5.980				ND	U
48 Chlorobromomethane	128		6.247				ND	
50 Chloroform	83		6.393				ND	U
51 1,1,1-Trichloroethane	97		6.558				ND	U
53 Carbon tetrachloride	117		6.722				ND	U
56 Benzene	78		6.959				ND	U
57 1,2-Dichloroethane	62		7.038				ND	U
61 Trichloroethene	130		7.689				ND	U
64 1,2-Dichloropropane	63		7.963				ND	U
68 Dichlorobromomethane	83		8.249				ND	U

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
71 cis-1,3-Dichloropropene	75		8.699				ND	U
72 4-Methyl-2-pentanone (MIBK)	43		8.857				ND	U
73 Toluene	91	9.022	9.021	0.001	33	1225	0.1050	
74 trans-1,3-Dichloropropene	75		9.277				ND	U
76 1,1,2-Trichloroethane	97		9.472				ND	U
77 Tetrachloroethene	164		9.538				ND	U
79 2-Hexanone	43		9.691				ND	U
81 Chlorodibromomethane	129		9.843				ND	U
82 Ethylene Dibromide	107		9.952				ND	U
84 Chlorobenzene	112		10.439				ND	U
86 1,1,1,2-Tetrachloroethane	131		10.530				ND	U
87 Ethylbenzene	106		10.542				ND	U
88 m-Xylene & p-Xylene	106		10.670				ND	U
89 o-Xylene	106		11.053				ND	U
90 Styrene	104		11.078				ND	U
91 Bromoform	173		11.254				ND	U
96 1,1,2,2-Tetrachloroethane	83		11.741				ND	U
S 131 Xylenes, Total	106		1.000				ND	

### QC Flag Legend

Review Flags

U - Marked Undetected

### Reagents:

VOA8260INT\_00103

Amount Added: 2.00

Units: uL

Run Reagent

VOA8260SURR\_00103

Amount Added: 2.00

Units: uL

Run Reagent

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012520.D

Injection Date: 25-Jan-2020 19:21:30

Instrument ID: CHHP6

Operator ID: 433269

Lims ID: 180-101459-A-14

Lab Sample ID: 180-101459-14

Worklist Smp#: 20

Client ID: HD-QC1-0/1-2

Purge Vol: 5.000 mL

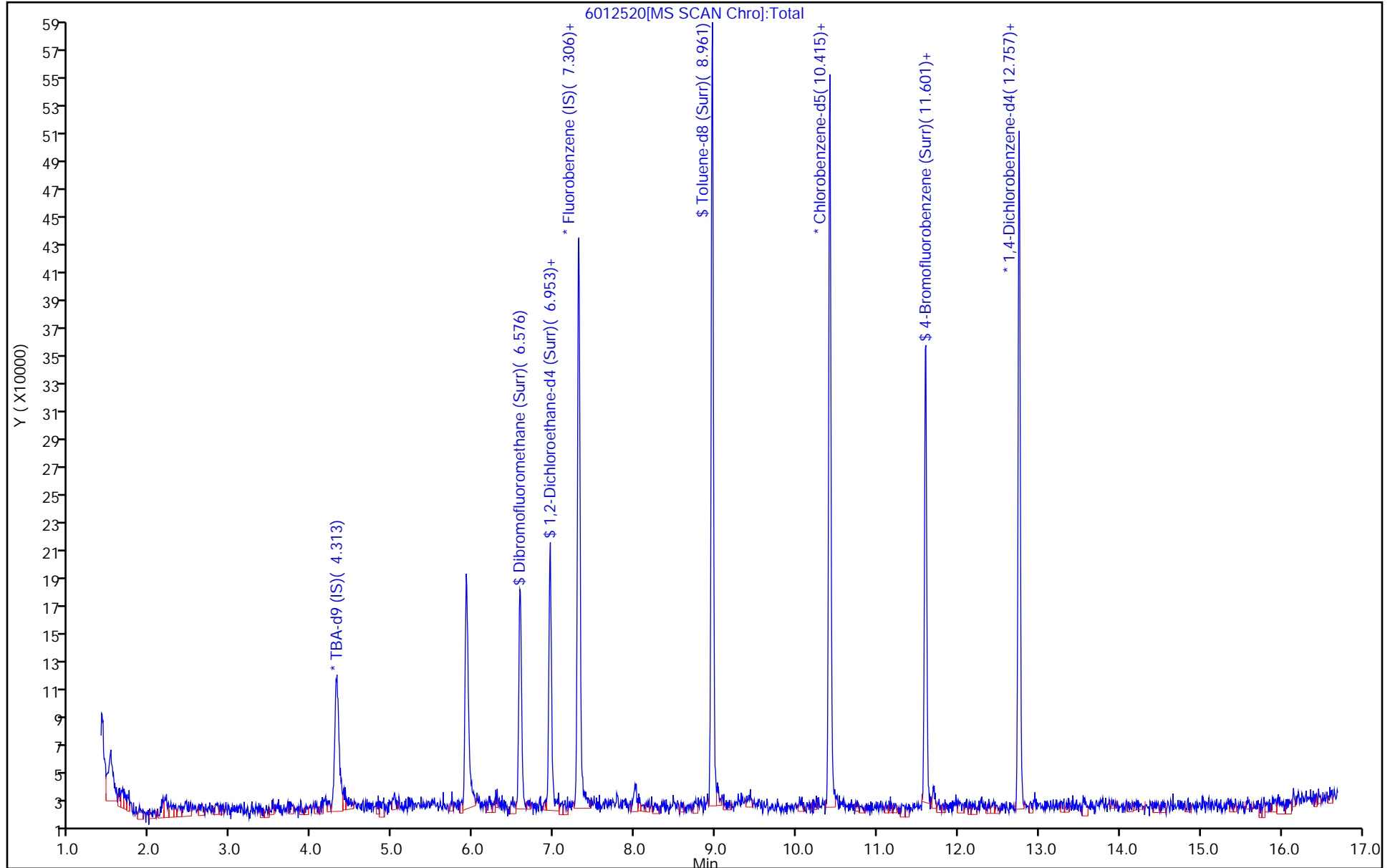
Dil. Factor: 1.0000

ALS Bottle#: 14

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\20200125-30512.b\6012520.D  
 Lims ID: 180-101459-A-14  
 Client ID: HD-QC1-0/1-2  
 Sample Type: Client  
 Inject. Date: 25-Jan-2020 19:21:30 ALS Bottle#: 14 Worklist Smp#: 20  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 180-0030512-020  
 Misc. Info.: 180-101459-a-14  
 Operator ID: 433269 Instrument ID: CHHP6  
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\MSVOA\_LL\_CHHP6.m  
 Limit Group: VOA 8260C\_D ICAL  
 Last Update: 28-Jan-2020 09:46:25 Calib Date: 31-Dec-2019 16:03:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123111.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0335

First Level Reviewer: bowieh Date: 28-Jan-2020 09:46:25

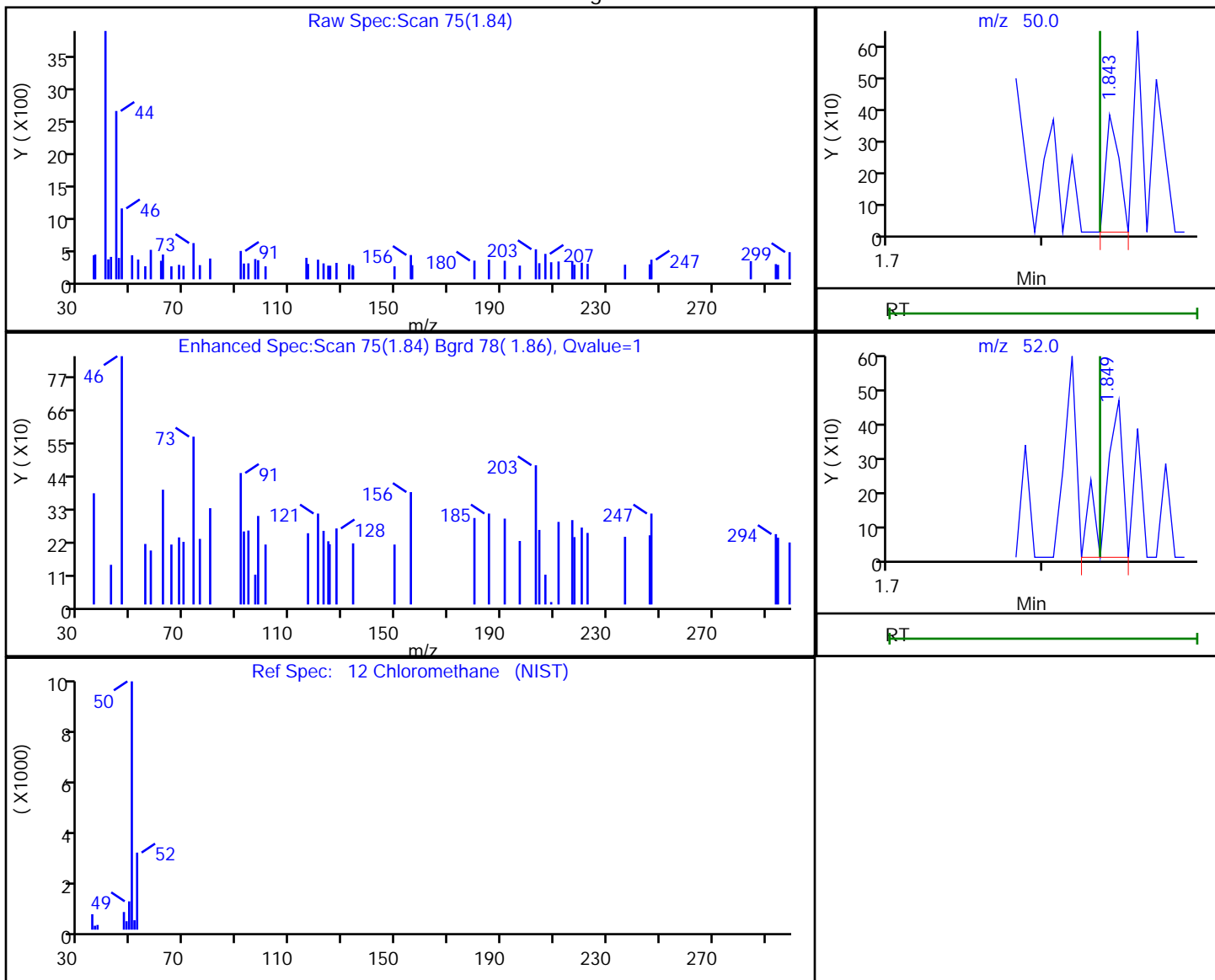
Compound	Amount Added	Amount Recovered	% Rec.
\$ 5 Dibromofluoromethane (Surr)	50.0	59.3	118.67
\$ 6 1,2-Dichloroethane-d4 (Surr)	50.0	64.8	129.67
\$ 7 Toluene-d8 (Surr)	50.0	45.2	90.46
\$ 8 4-Bromofluorobenzene (Surr)	50.0	38.2	76.33

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012520.D  
 Injection Date: 25-Jan-2020 19:21:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-A-14 Lab Sample ID: 180-101459-14  
 Client ID: HD-QC1-0/1-2  
 Operator ID: 433269 ALS Bottle#: 14 Worklist Smp#: 20  
 Purge Vol: 5.000 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
1.84	50.00	223	0.066416
1.85	52.00	366	

Reviewer: bowieh, 28-Jan-2020 09:45:37

Audit Action: Marked Compound Undetected

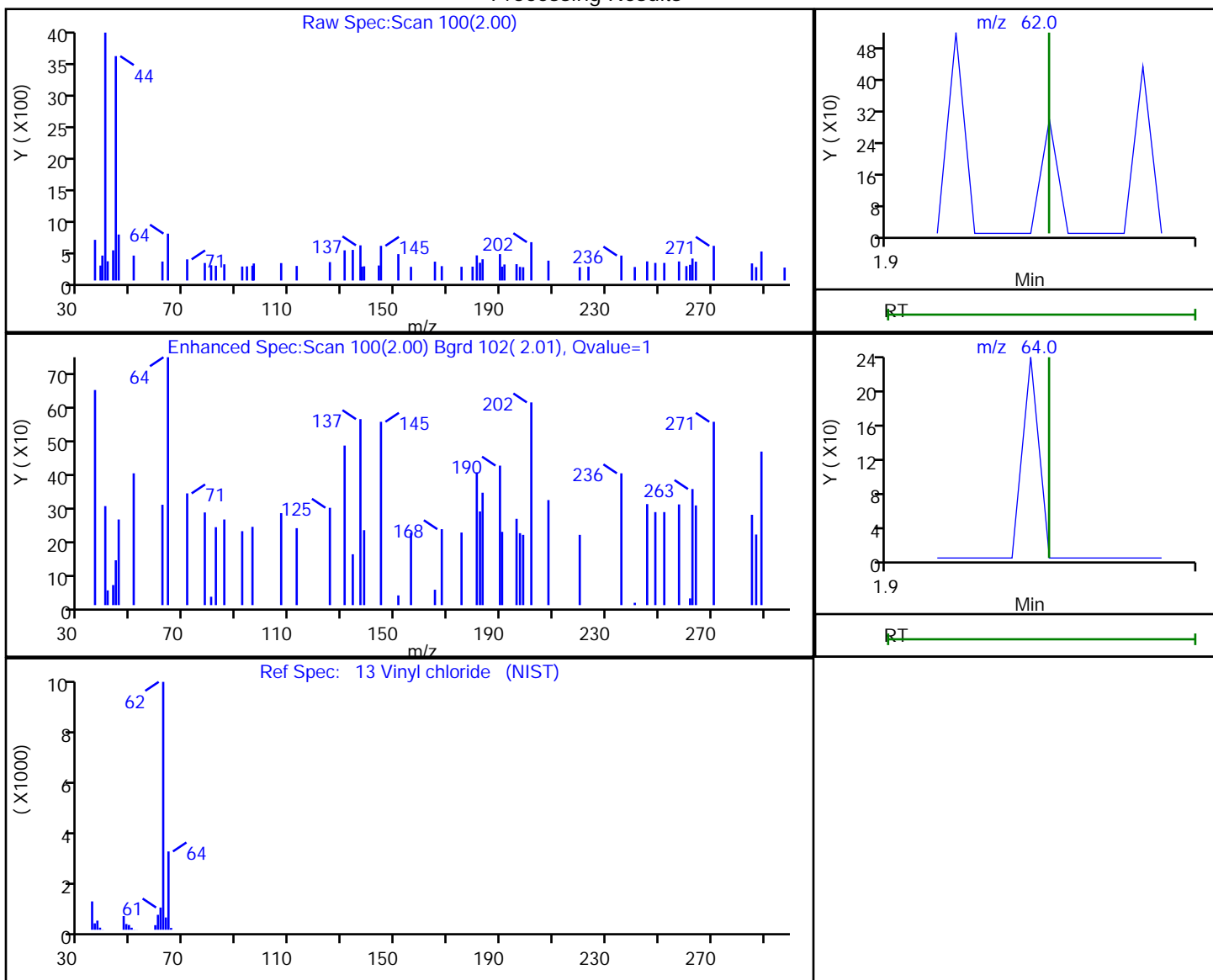
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012520.D  
 Injection Date: 25-Jan-2020 19:21:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-A-14 Lab Sample ID: 180-101459-14  
 Client ID: HD-QC1-0/1-2  
 Operator ID: 433269 ALS Bottle#: 14 Worklist Smp#: 20  
 Purge Vol: 5.000 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	109	0.037725
2.00	64.00	373	

Reviewer: bowieh, 28-Jan-2020 09:45:38

Audit Action: Marked Compound Undetected

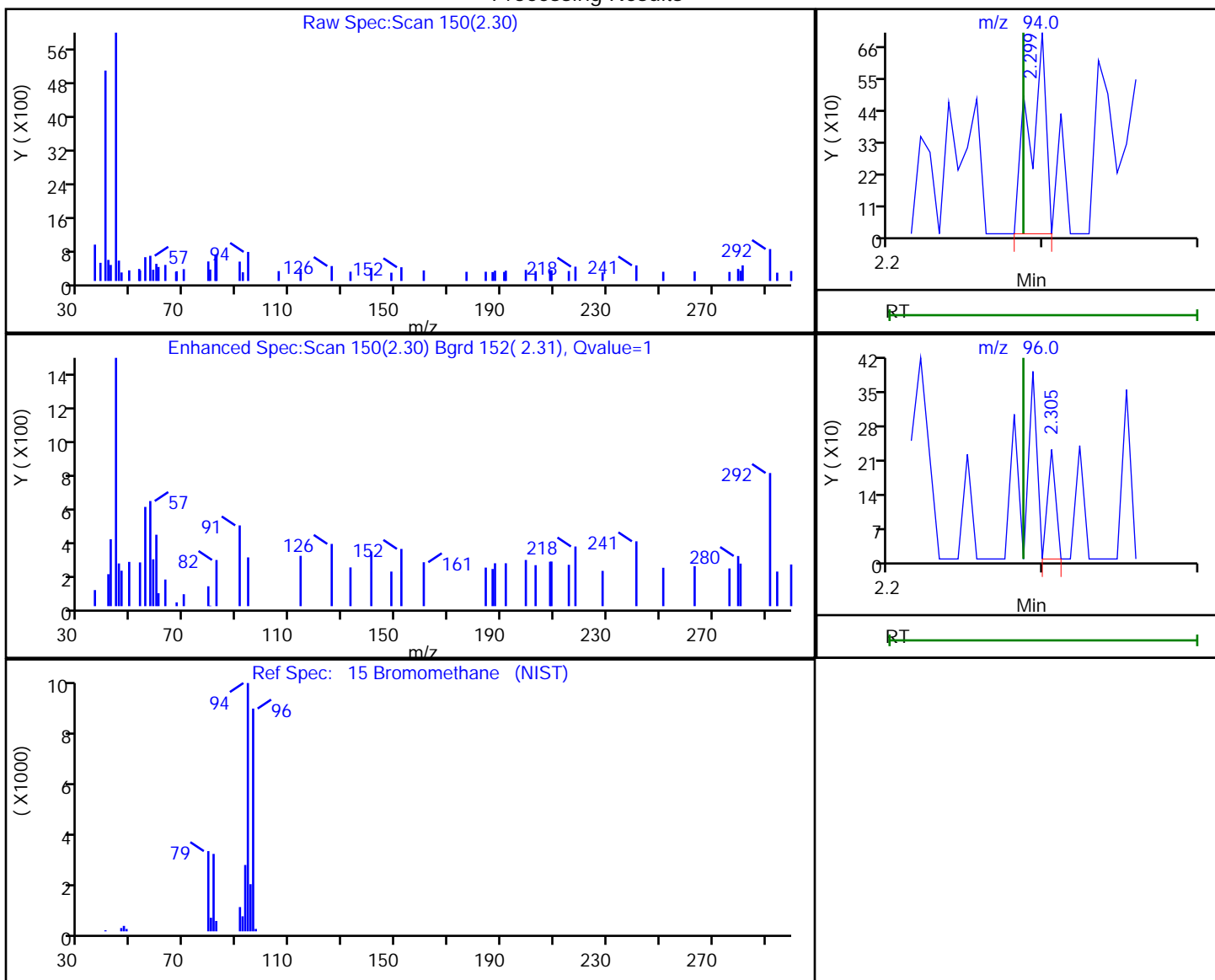
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Eurofins TestAmerica, Pittsburgh

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 Injection Date: 25-Jan-2020 19:21:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-A-14 Lab Sample ID: 180-101459-14  
 Client ID: HD-QC1-0/1-2  
 Operator ID: 433269 ALS Bottle#: 14 Worklist Smp#: 20  
 Purge Vol: 5.000 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
2.30	94.00	514	0.278831
2.31	96.00	83	

Reviewer: bowieh, 28-Jan-2020 09:45:39

Audit Action: Marked Compound Undetected

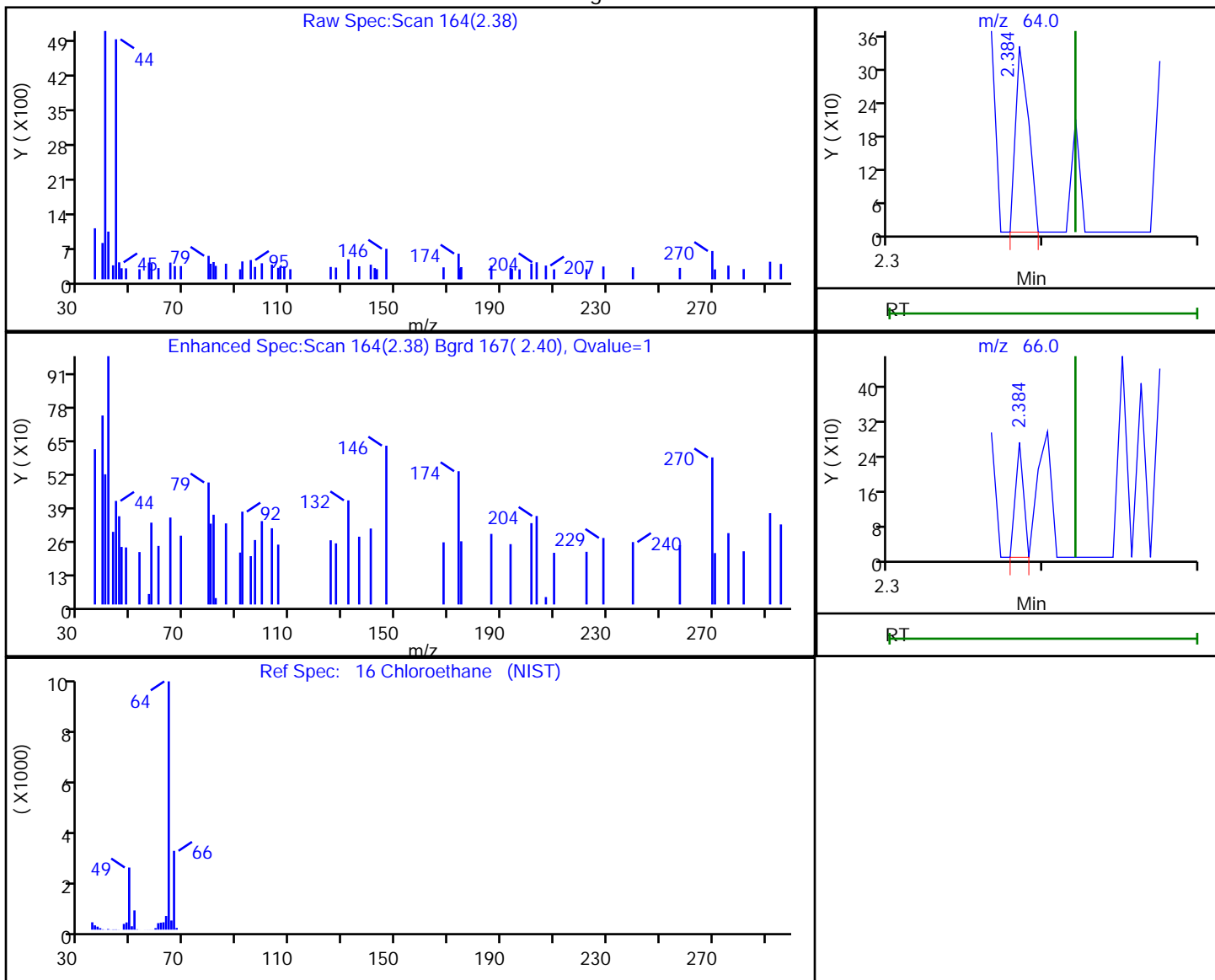
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Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012520.D  
 Injection Date: 25-Jan-2020 19:21:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-A-14 Lab Sample ID: 180-101459-14  
 Client ID: HD-QC1-0/1-2  
 Operator ID: 433269 ALS Bottle#: 14 Worklist Smp#: 20  
 Purge Vol: 5.000 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
2.38	64.00	198	0.094093
2.38	66.00	98	

Reviewer: bowieh, 28-Jan-2020 09:45:40

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

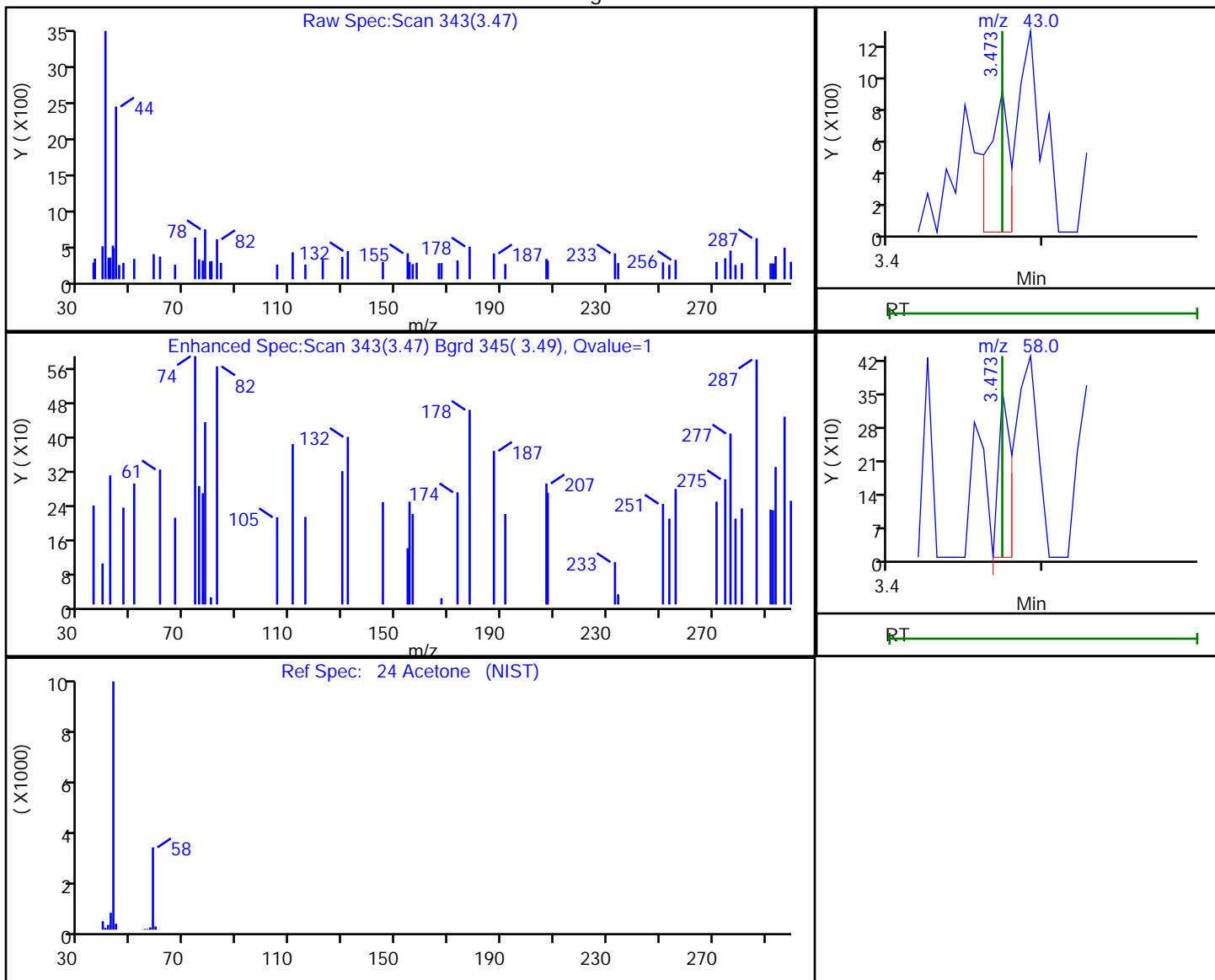


Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012520.D  
 Injection Date: 25-Jan-2020 19:21:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-A-14 Lab Sample ID: 180-101459-14  
 Client ID: HD-QC1-0/1-2  
 Operator ID: 433269 ALS Bottle#: 14 Worklist Smp#: 20  
 Purge Vol: 5.000 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
3.47	43.00	877	0.815547
3.47	58.00	209	

Reviewer: bowieh, 28-Jan-2020 09:45:42

Audit Action: Marked Compound Undetected

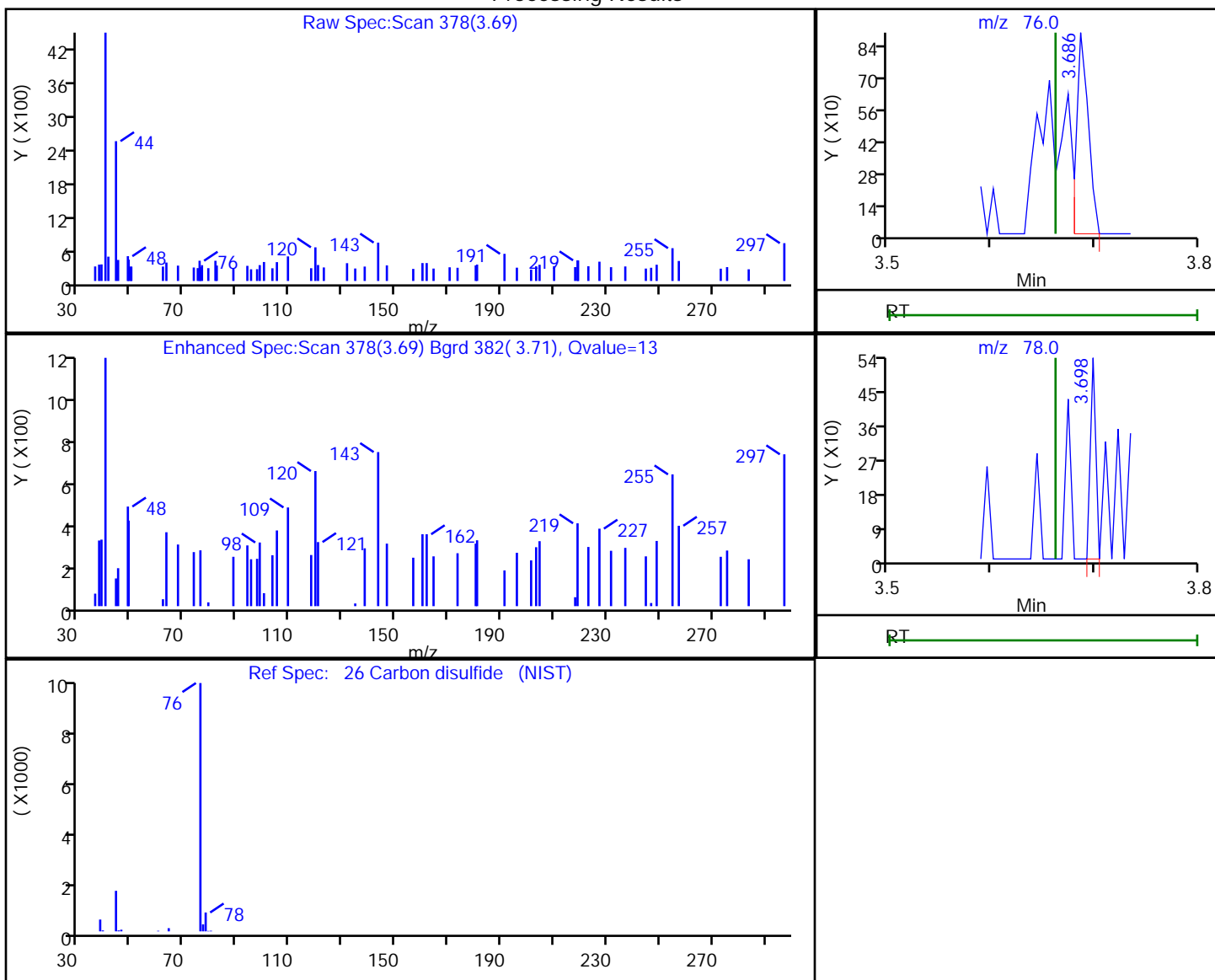
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Injection Date: 25-Jan-2020 19:21:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-A-14 Lab Sample ID: 180-101459-14  
 Client ID: HD-QC1-0/1-2  
 Operator ID: 433269 ALS Bottle#: 14 Worklist Smp#: 20  
 Purge Vol: 5.000 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
3.69	76.00	711	0.149801
3.70	78.00	194	

Reviewer: bowieh, 28-Jan-2020 09:45:43

Audit Action: Marked Compound Undetected

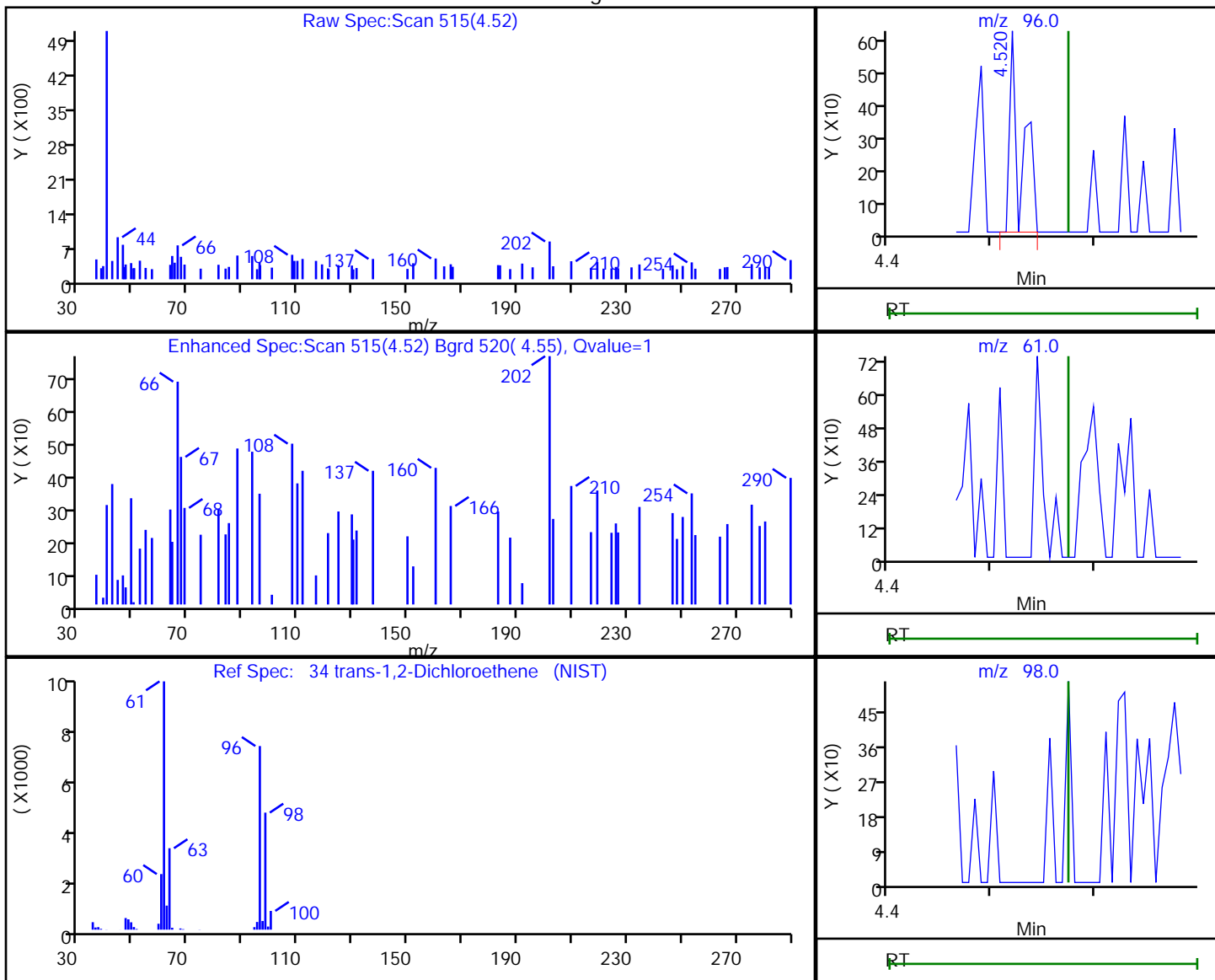
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012520.D  
 Injection Date: 25-Jan-2020 19:21:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-A-14 Lab Sample ID: 180-101459-14  
 Client ID: HD-QC1-0/1-2  
 Operator ID: 433269 ALS Bottle#: 14 Worklist Smp#: 20  
 Purge Vol: 5.000 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
4.52	96.00	475	0.198048
4.57	61.00	0	
4.57	98.00	0	

Reviewer: bowieh, 28-Jan-2020 09:45:46

Audit Action: Marked Compound Undetected

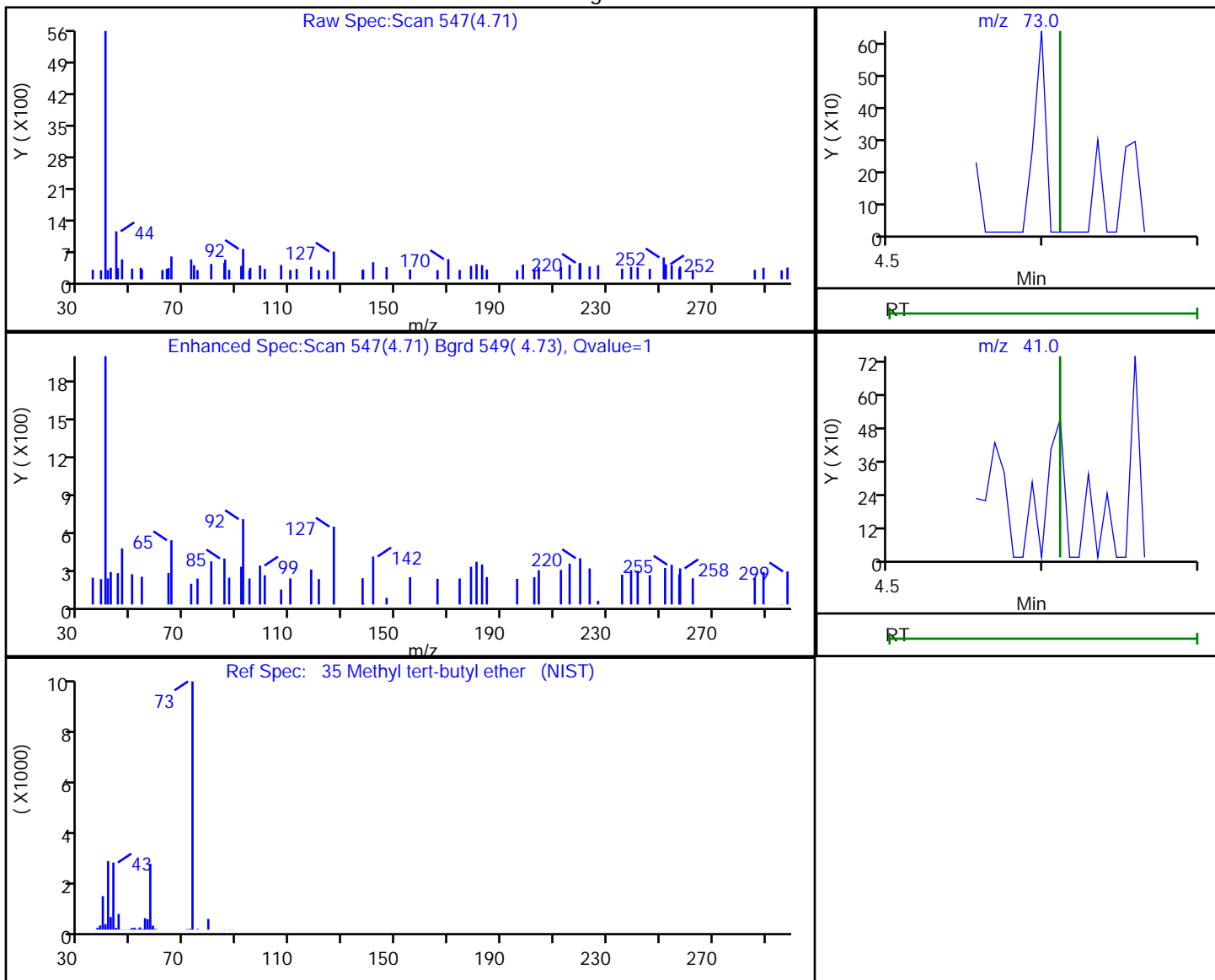
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012520.D  
Injection Date: 25-Jan-2020 19:21:30 Instrument ID: CHHP6  
Lims ID: 180-101459-A-14 Lab Sample ID: 180-101459-14  
Client ID: HD-QC1-0/1-2  
Operator ID: 433269 ALS Bottle#: 14 Worklist Smp#: 20  
Purge Vol: 5.000 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	275	0.059187
4.71	41.00	294	

Reviewer: bowieh, 28-Jan-2020 09:45:47

Audit Action: Marked Compound Undetected

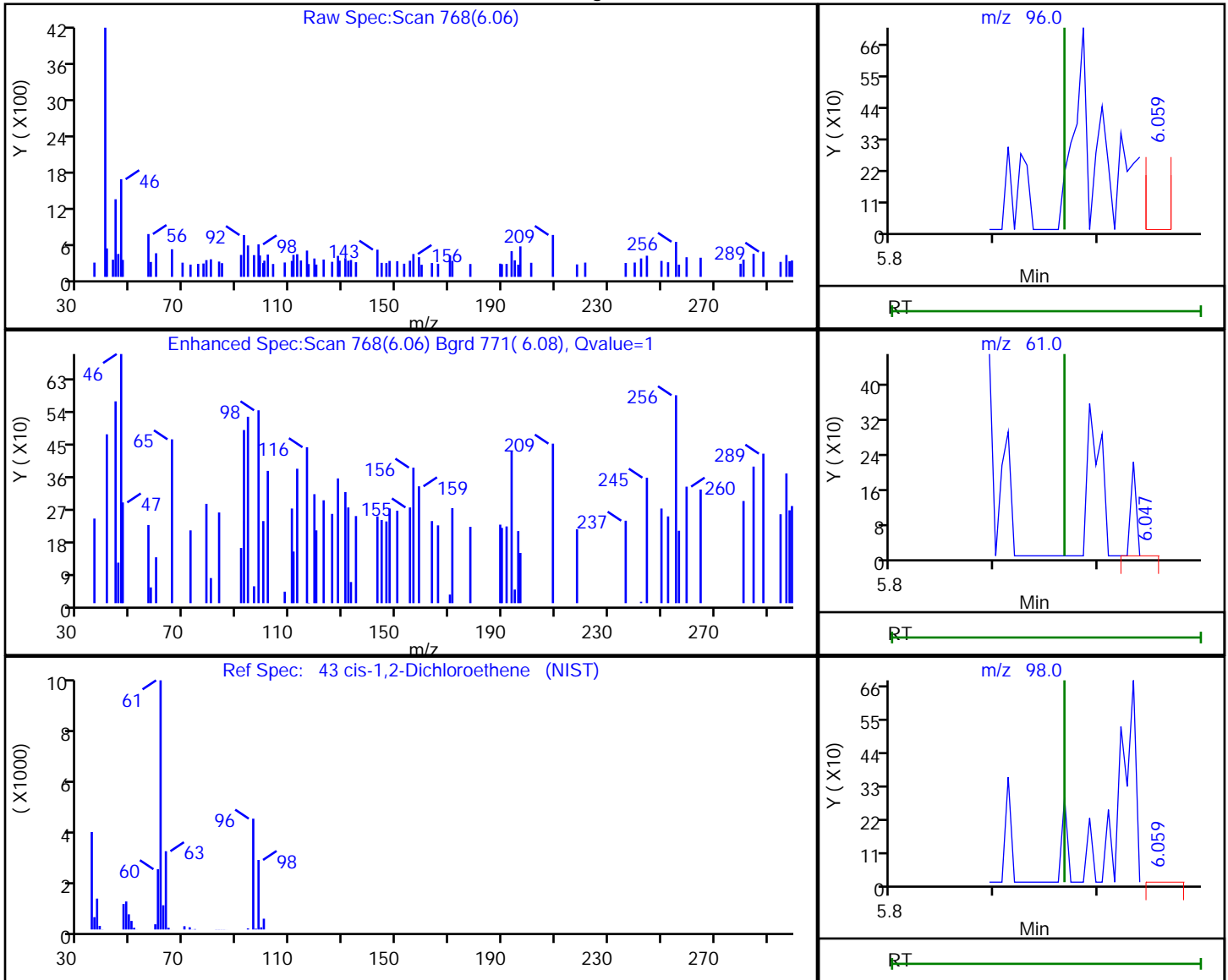
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012520.D  
 Injection Date: 25-Jan-2020 19:21:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-A-14 Lab Sample ID: 180-101459-14  
 Client ID: HD-QC1-0/1-2  
 Operator ID: 433269 ALS Bottle#: 14 Worklist Smp#: 20  
 Purge Vol: 5.000 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
6.06	96.00	224	0.086741
6.05	61.00	192	
6.06	98.00	741	

Reviewer: bowieh, 28-Jan-2020 09:45:49

Audit Action: Marked Compound Undetected

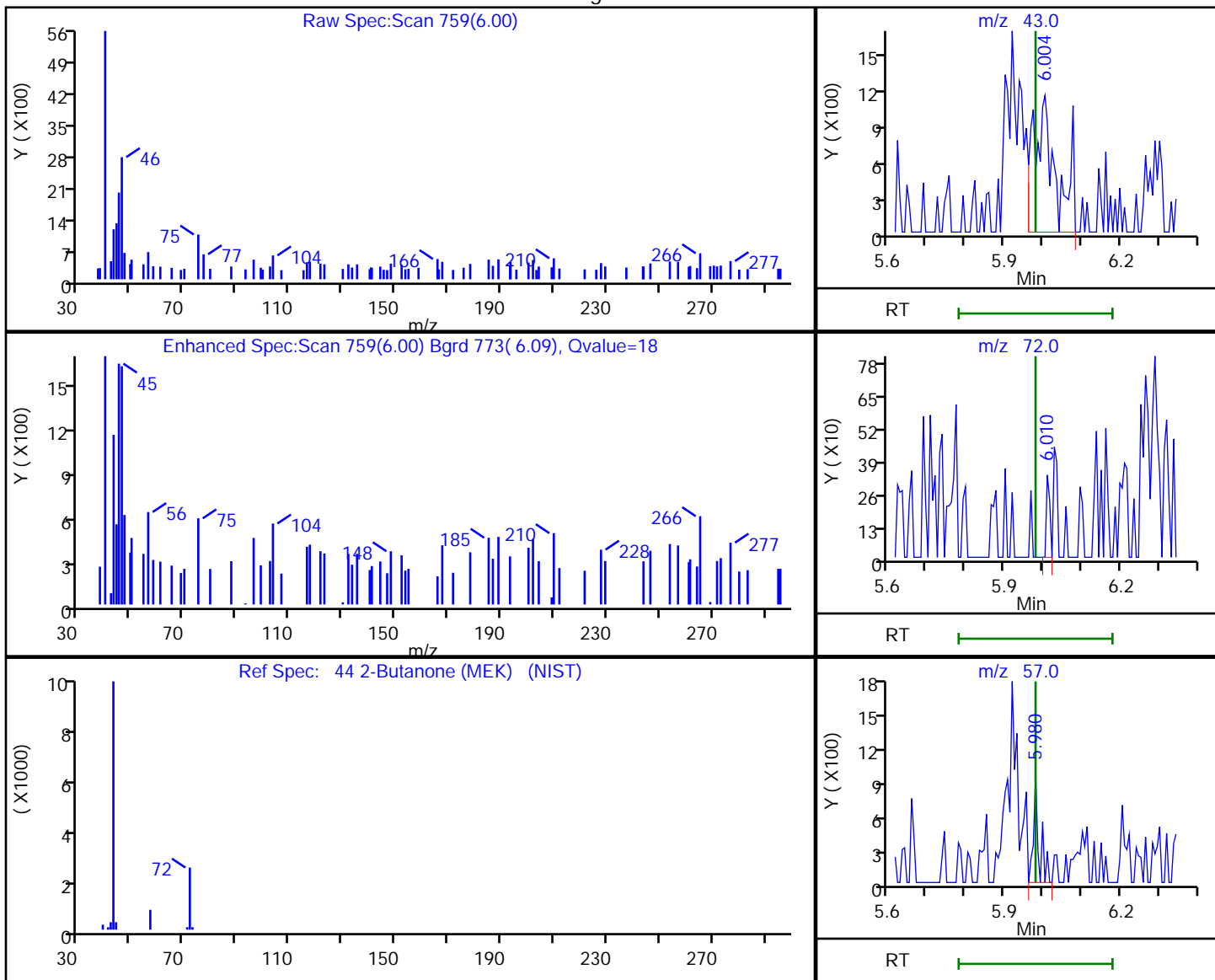
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 Injection Date: 25-Jan-2020 19:21:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-A-14 Lab Sample ID: 180-101459-14  
 Client ID: HD-QC1-0/1-2  
 Operator ID: 433269 ALS Bottle#: 14 Worklist Smp#: 20  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: 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
6.00	43.00	4356	3.220394
6.01	72.00	203	
5.98	57.00	937	

Reviewer: bowieh, 28-Jan-2020 09:45:50

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

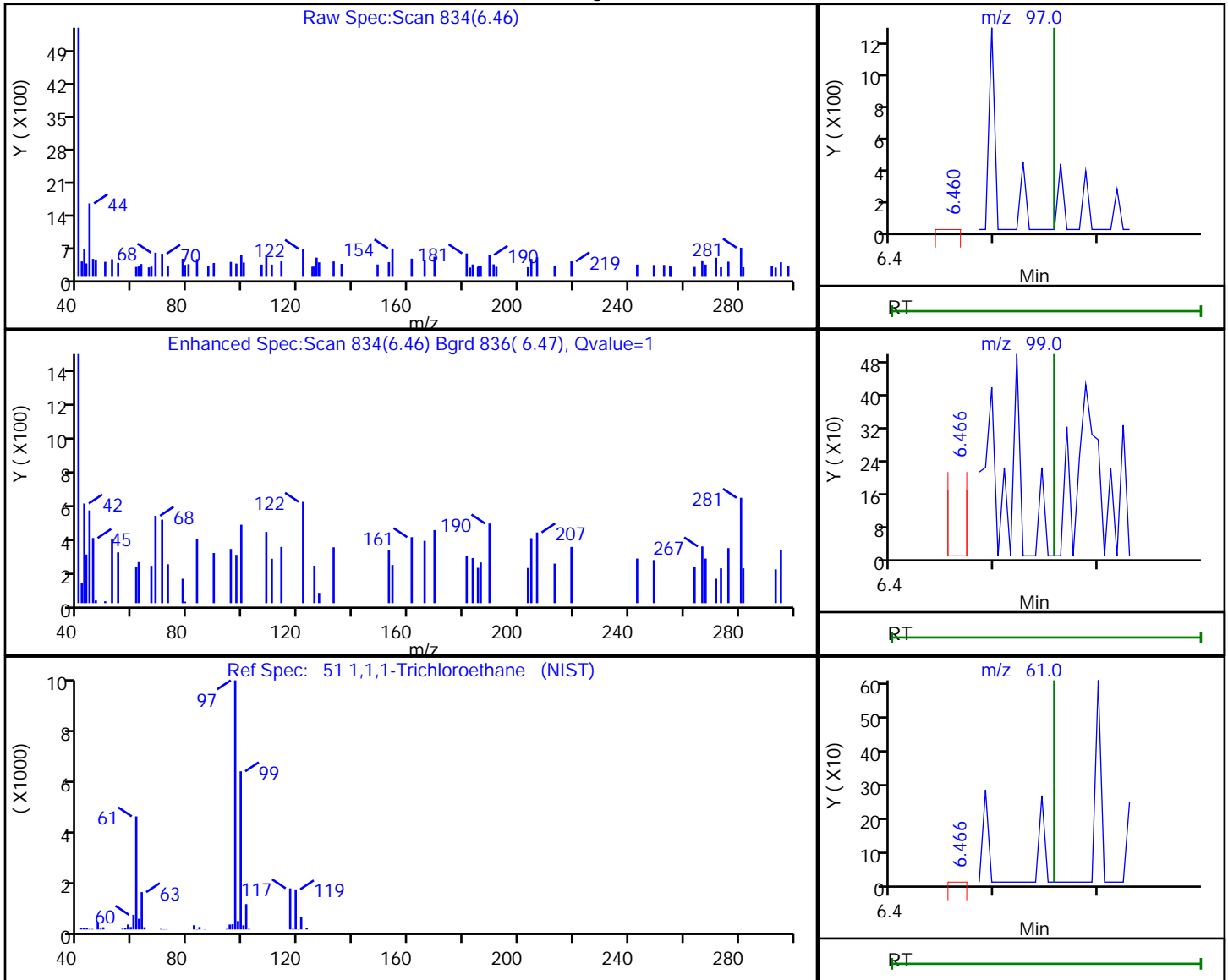


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 Client ID: HD-QC1-0/1-2  
 Operator ID: 433269 ALS Bottle#: 14 Worklist Smp#: 20  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
 Column: DB-624 (0.18 mm) Detector: MS SCAN

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

Processing Results



RT	Mass	Response	Amount
6.46	97.00	181	0.060889
6.47	99.00	437	
6.47	61.00	375	

Reviewer: bowieh, 28-Jan-2020 09:45:53

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

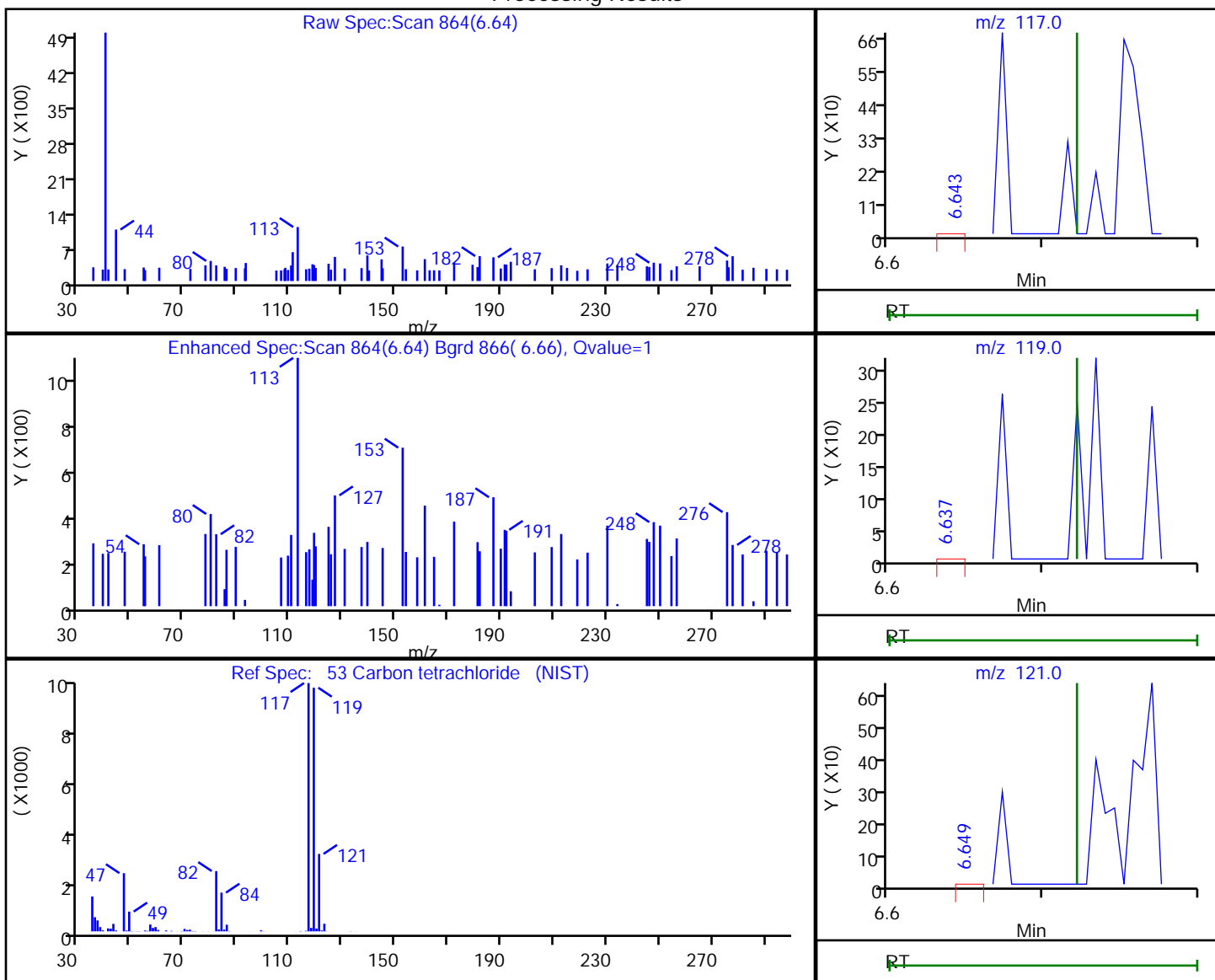


Eurofins TestAmerica, Pittsburgh

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 Injection Date: 25-Jan-2020 19:21:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-A-14 Lab Sample ID: 180-101459-14  
 Client ID: HD-QC1-0/1-2  
 Operator ID: 433269 ALS Bottle#: 14 Worklist Smp#: 20  
 Purge Vol: 5.000 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
6.64	117.00	168	0.067200
6.64	119.00	312	
6.65	121.00	92	

Reviewer: bowieh, 28-Jan-2020 09:45:55

Audit Action: Marked Compound Undetected

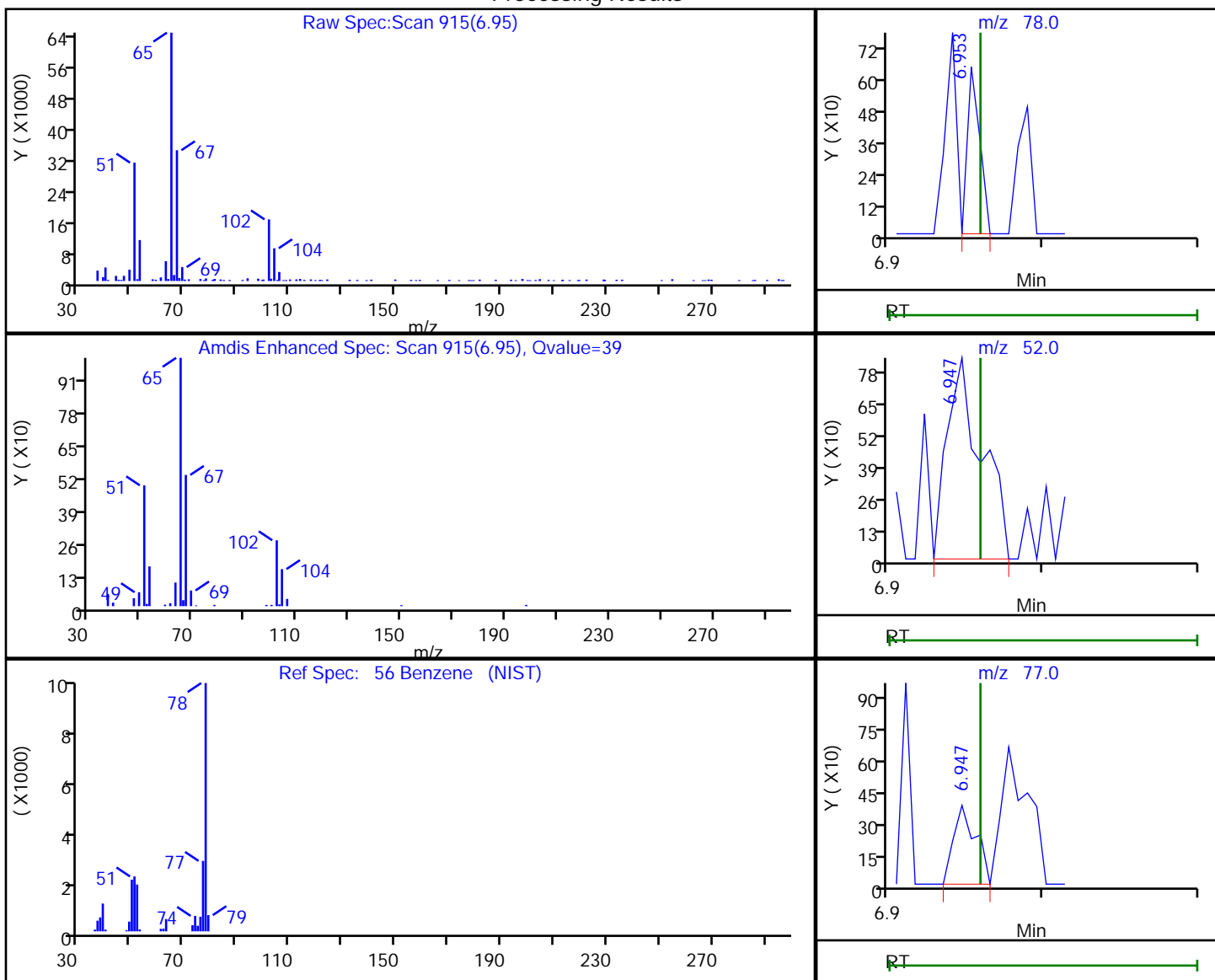
Audit Reason: Invalid Compound ID

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 Lims ID: 180-101459-A-14 Lab Sample ID: 180-101459-14  
 Client ID: HD-QC1-0/1-2  
 Operator ID: 433269 ALS Bottle#: 14 Worklist Smp#: 20  
 Purge Vol: 5.000 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
6.95	78.00	361	0.037912
6.95	52.00	1313	
6.95	77.00	381	

Reviewer: bowieh, 28-Jan-2020 09:45:56

Audit Action: Marked Compound Undetected

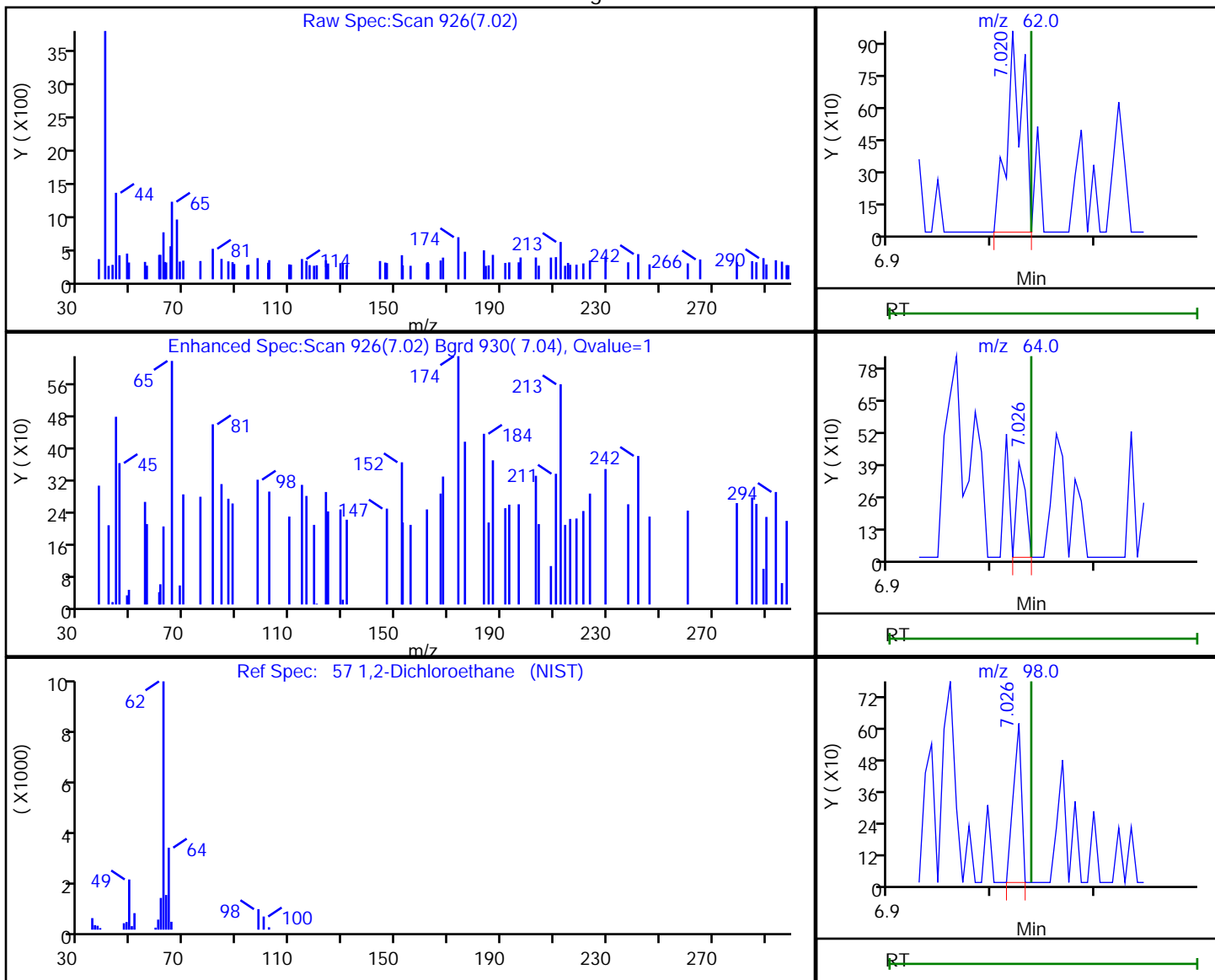
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 Injection Date: 25-Jan-2020 19:21:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-A-14 Lab Sample ID: 180-101459-14  
 Client ID: HD-QC1-0/1-2  
 Operator ID: 433269 ALS Bottle#: 14 Worklist Smp#: 20  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: 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
7.02	62.00	1030	0.392741
7.03	64.00	243	
7.03	98.00	340	

Reviewer: bowieh, 28-Jan-2020 09:45:57

Audit Action: Marked Compound Undetected

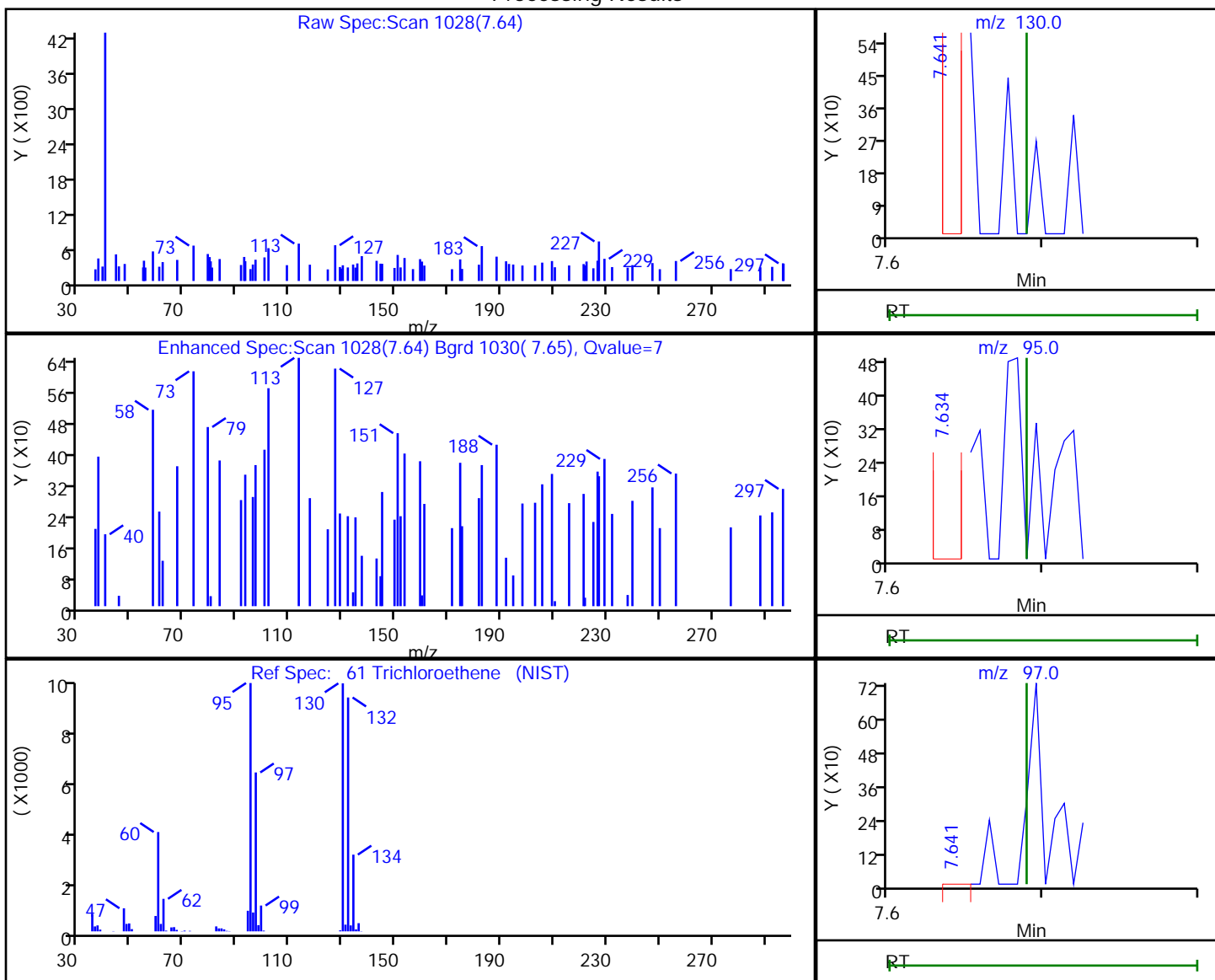
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Eurofins TestAmerica, Pittsburgh

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 Injection Date: 25-Jan-2020 19:21:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-A-14 Lab Sample ID: 180-101459-14  
 Client ID: HD-QC1-0/1-2  
 Operator ID: 433269 ALS Bottle#: 14 Worklist Smp#: 20  
 Purge Vol: 5.000 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
7.64	130.00	99	0.035074
7.63	95.00	174	
7.64	97.00	234	

Reviewer: bowieh, 28-Jan-2020 09:45:58

Audit Action: Marked Compound Undetected

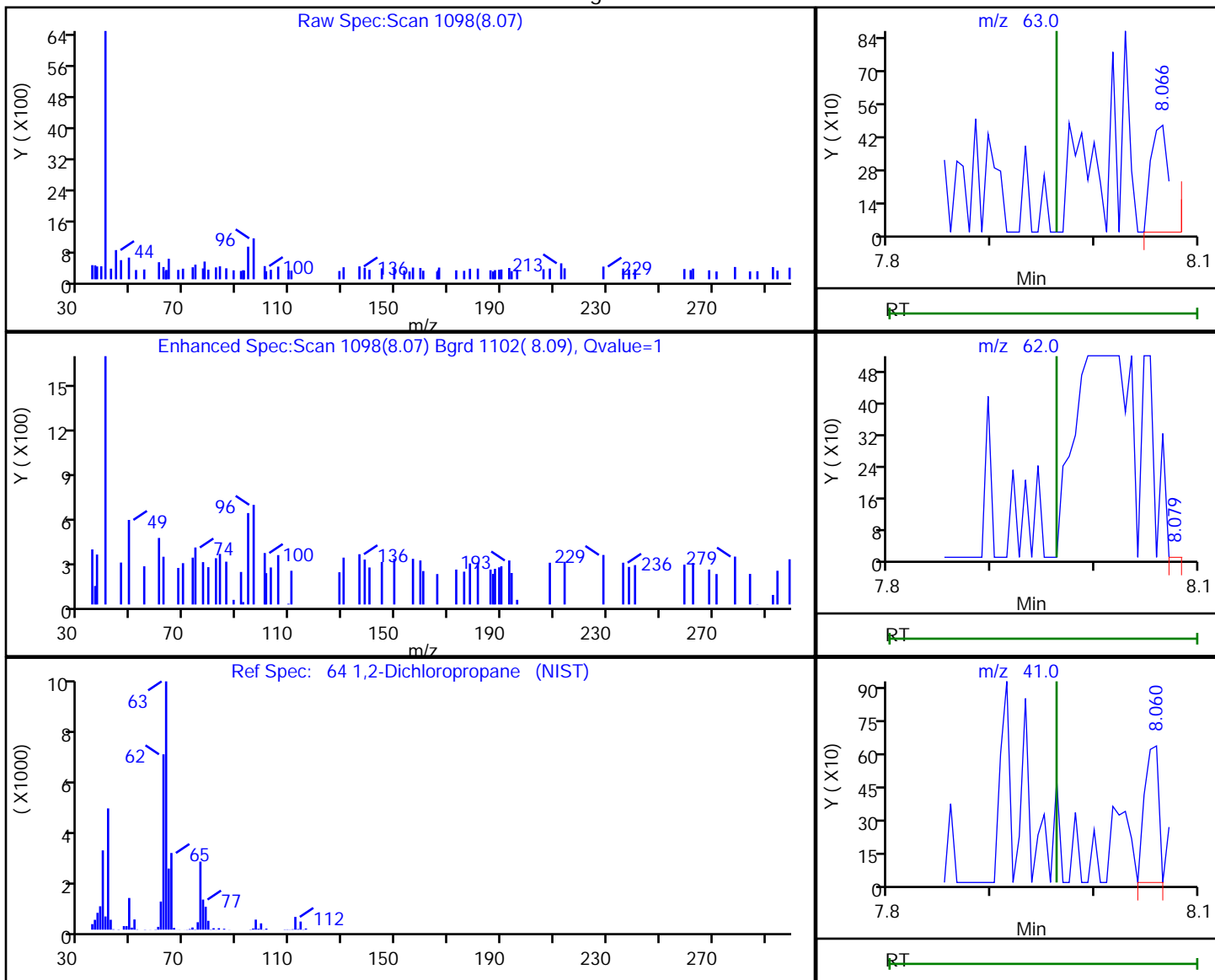
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 Lims ID: 180-101459-A-14 Lab Sample ID: 180-101459-14  
 Client ID: HD-QC1-0/1-2  
 Operator ID: 433269 ALS Bottle#: 14 Worklist Smp#: 20  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
 Column: 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	649	0.291161
8.08	62.00	95	
8.06	41.00	598	

Reviewer: bowieh, 28-Jan-2020 09:45:59

Audit Action: Marked Compound Undetected

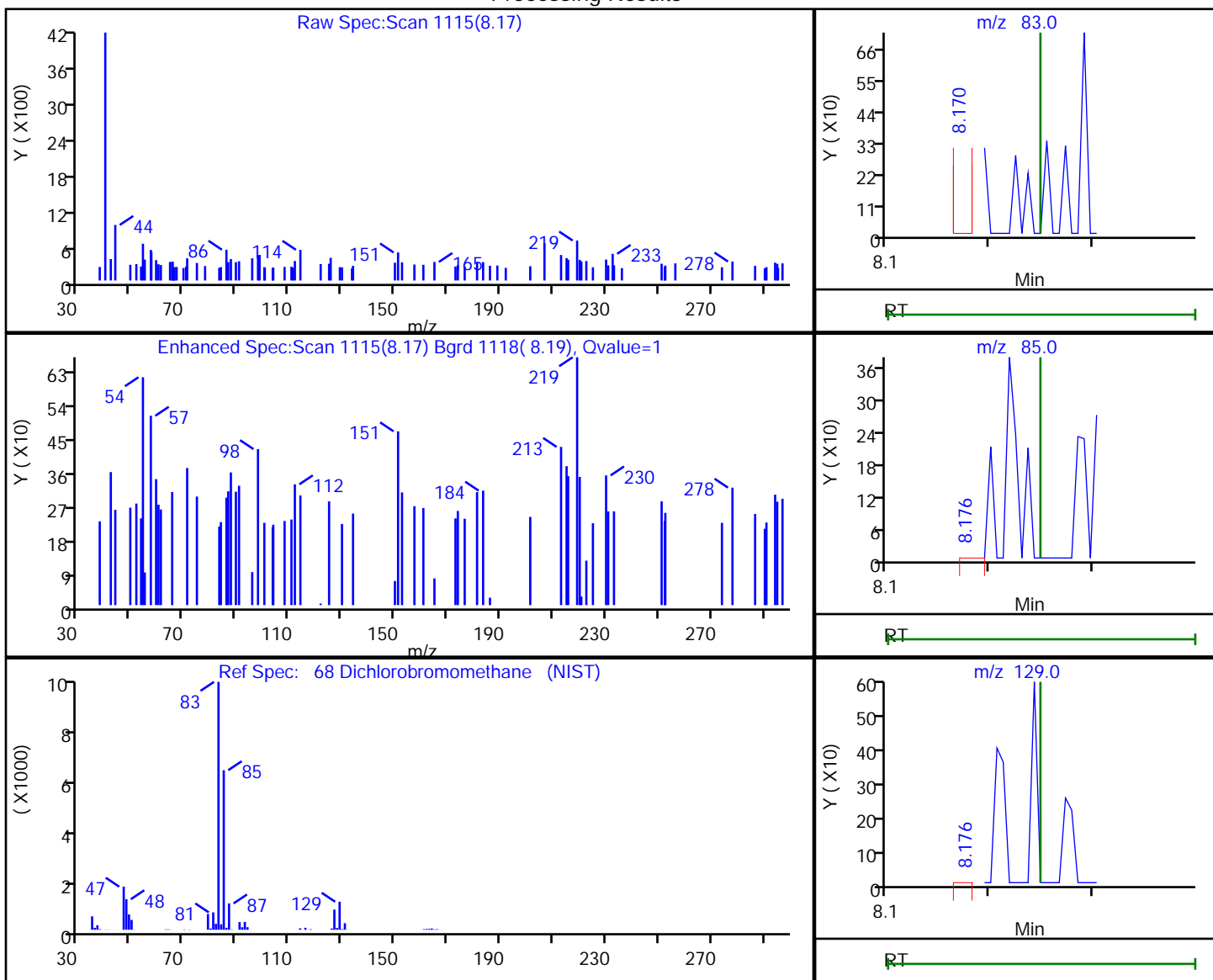
Audit Reason: Invalid Compound ID

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 Lims ID: 180-101459-A-14 Lab Sample ID: 180-101459-14  
 Client ID: HD-QC1-0/1-2  
 Operator ID: 433269 ALS Bottle#: 14 Worklist Smp#: 20  
 Purge Vol: 5.000 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
8.17	83.00	77	0.036956
8.18	85.00	709	
8.18	129.00	208	

Reviewer: bowieh, 28-Jan-2020 09:46:01

Audit Action: Marked Compound Undetected

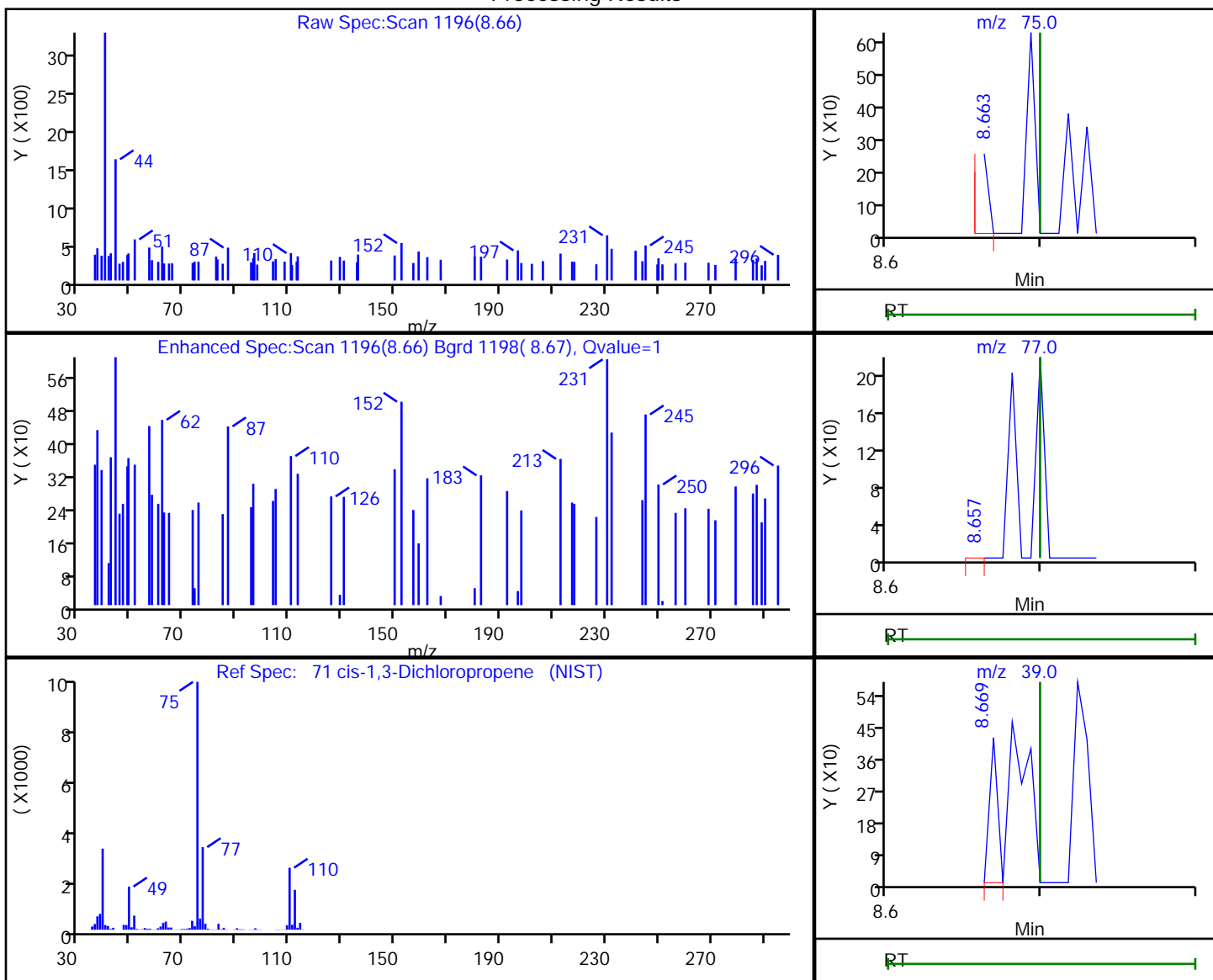
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Lims ID: 180-101459-A-14 Lab Sample ID: 180-101459-14  
 Client ID: HD-QC1-0/1-2  
 Operator ID: 433269 ALS Bottle#: 14 Worklist Smp#: 20  
 Purge Vol: 5.000 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
8.66	75.00	91	0.033773
8.66	77.00	119	
8.67	39.00	152	

Reviewer: bowieh, 28-Jan-2020 09:46:02

Audit Action: Marked Compound Undetected

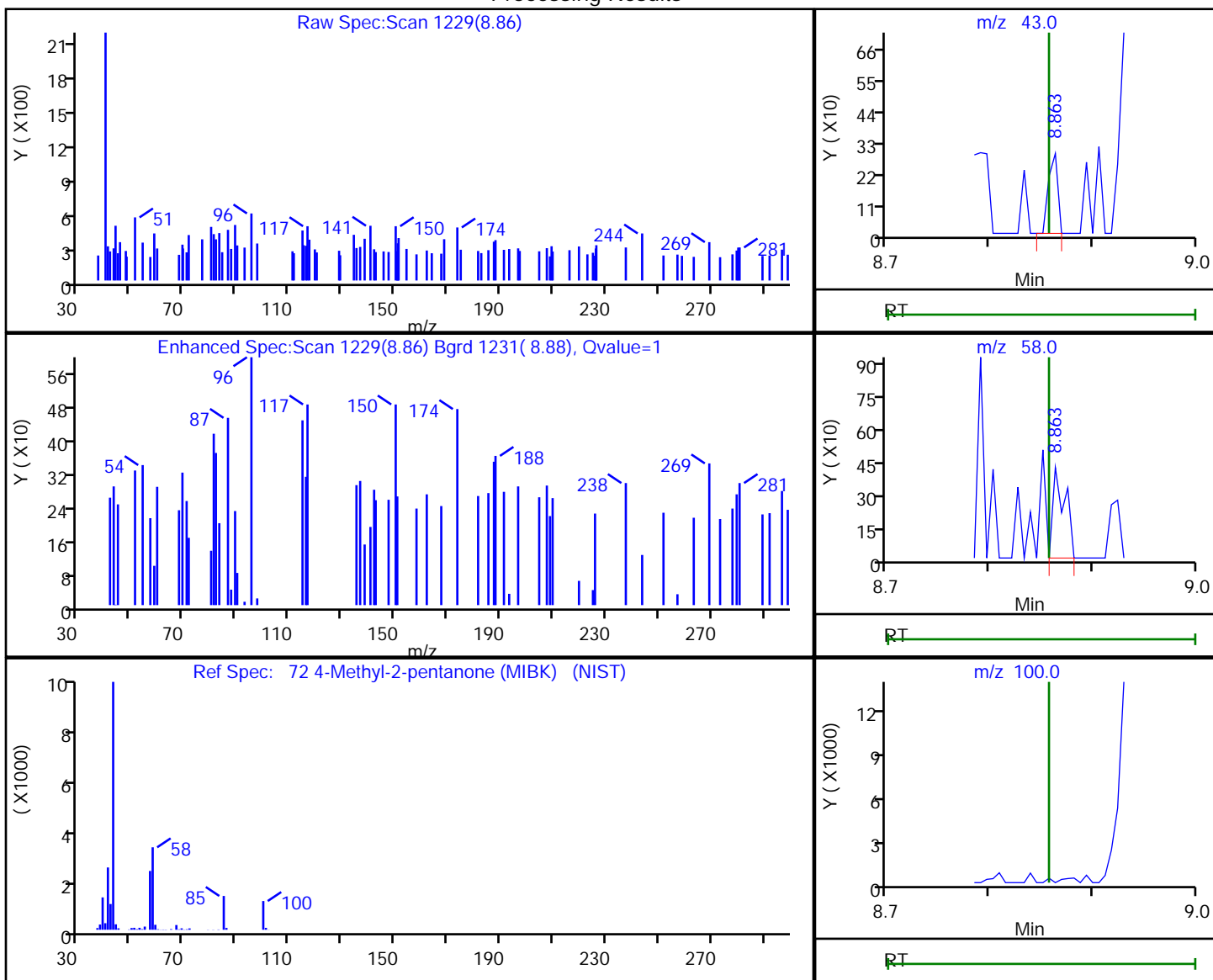
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Injection Date: 25-Jan-2020 19:21:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-A-14 Lab Sample ID: 180-101459-14  
 Client ID: HD-QC1-0/1-2  
 Operator ID: 433269 ALS Bottle#: 14 Worklist Smp#: 20  
 Purge Vol: 5.000 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	178	0.081059
8.86	58.00	346	
8.86	100.00	0	

Reviewer: bowieh, 28-Jan-2020 09:46:03

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

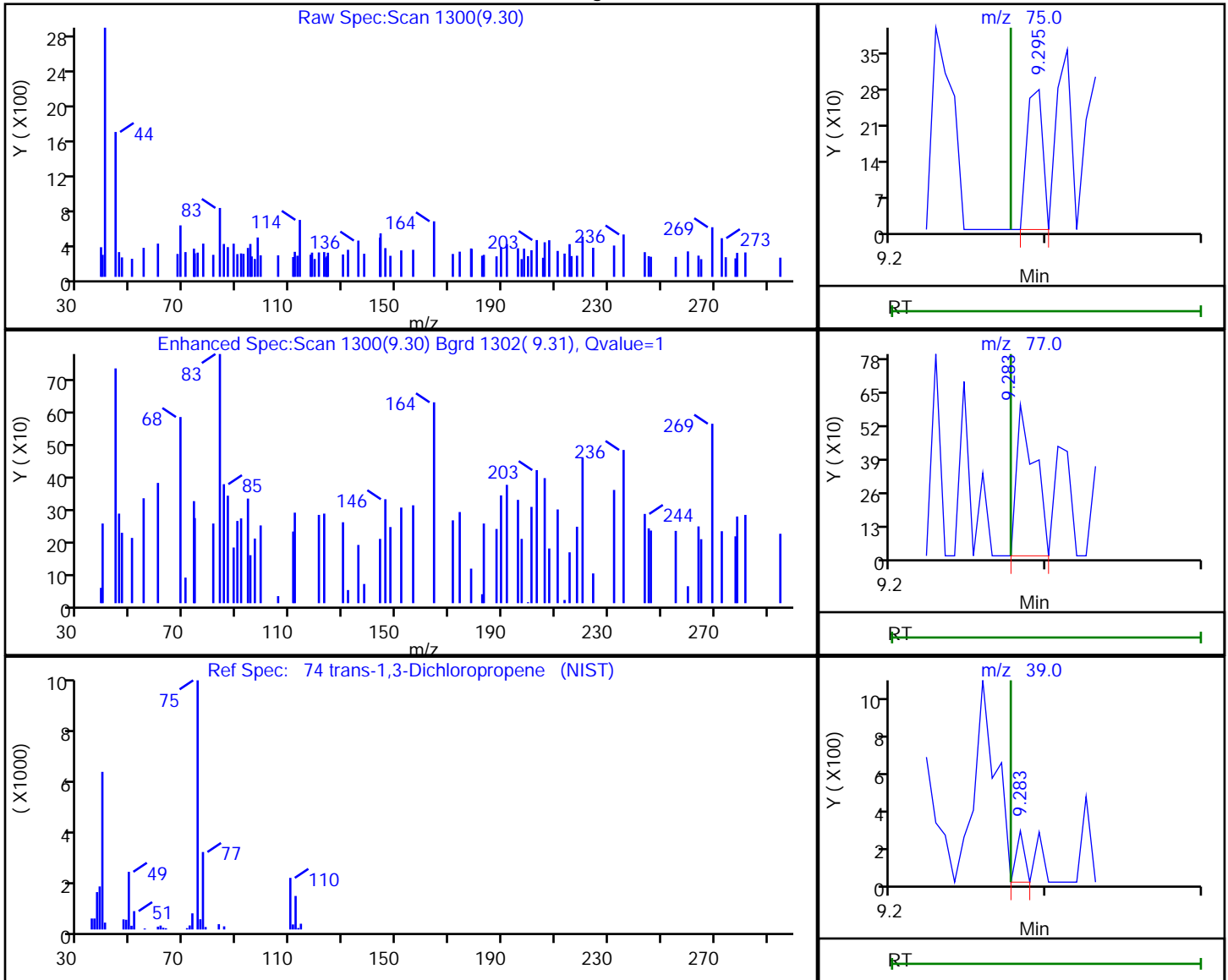


Eurofins TestAmerica, Pittsburgh

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 Injection Date: 25-Jan-2020 19:21:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-A-14 Lab Sample ID: 180-101459-14  
 Client ID: HD-QC1-0/1-2  
 Operator ID: 433269 ALS Bottle#: 14 Worklist Smp#: 20  
 Purge Vol: 5.000 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
9.30	75.00	194	0.076026
9.28	77.00	484	
9.28	39.00	93	

Reviewer: bowieh, 28-Jan-2020 09:46:06

Audit Action: Marked Compound Undetected

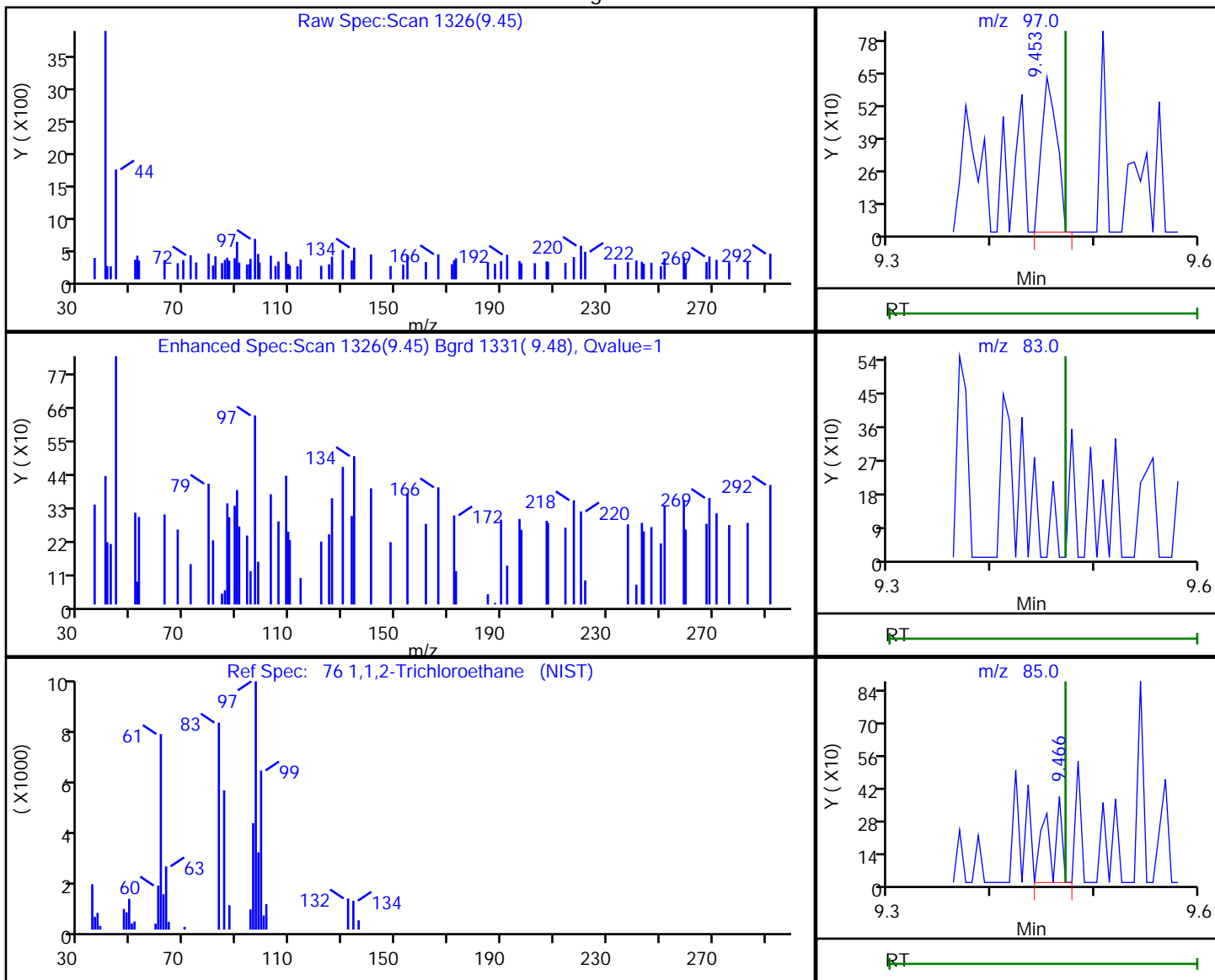
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

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 Injection Date: 25-Jan-2020 19:21:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-A-14 Lab Sample ID: 180-101459-14  
 Client ID: HD-QC1-0/1-2  
 Operator ID: 433269 ALS Bottle#: 14 Worklist Smp#: 20  
 Purge Vol: 5.000 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
9.45	97.00	646	0.304222
9.47	83.00	0	
9.47	85.00	329	

Reviewer: bowieh, 28-Jan-2020 09:46:07

Audit Action: Marked Compound Undetected

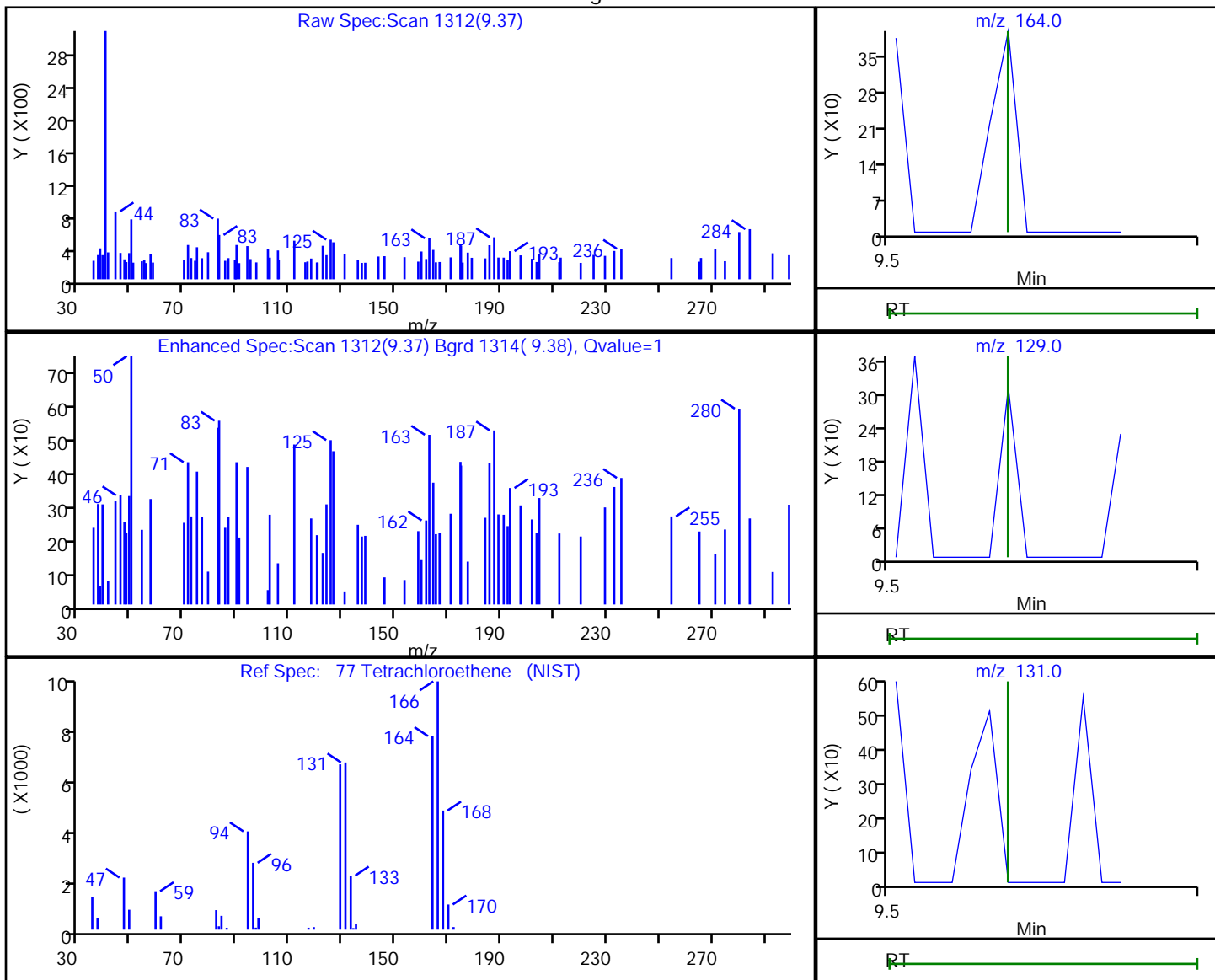
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Eurofins TestAmerica, Pittsburgh

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 Injection Date: 25-Jan-2020 19:21:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-A-14 Lab Sample ID: 180-101459-14  
 Client ID: HD-QC1-0/1-2  
 Operator ID: 433269 ALS Bottle#: 14 Worklist Smp#: 20  
 Purge Vol: 5.000 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
9.37	164.00	133	0.046124
9.37	129.00	246	
9.37	131.00	217	

Reviewer: bowieh, 28-Jan-2020 09:46:08

Audit Action: Marked Compound Undetected

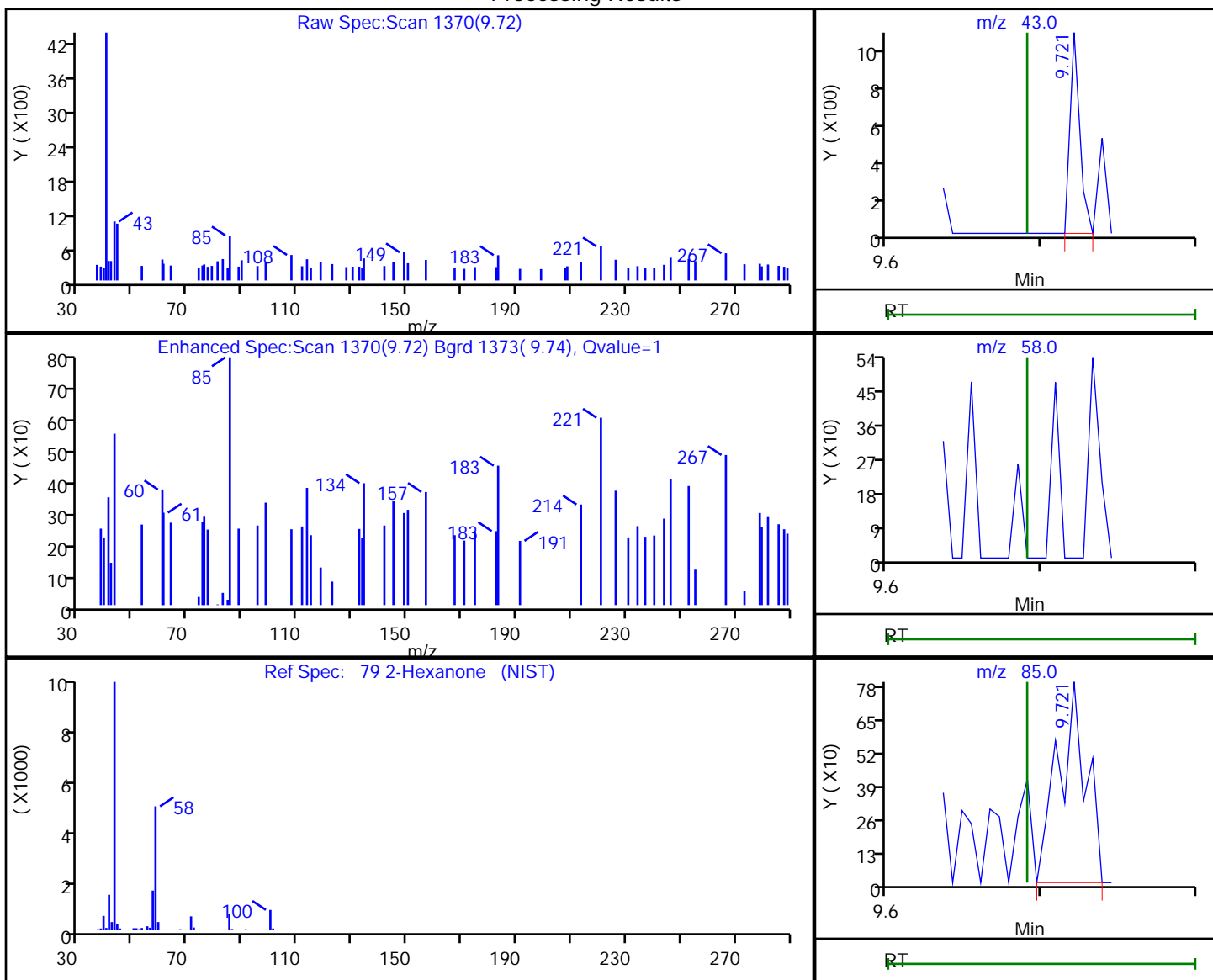
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Eurofins TestAmerica, Pittsburgh

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 Lims ID: 180-101459-A-14 Lab Sample ID: 180-101459-14  
 Client ID: HD-QC1-0/1-2  
 Operator ID: 433269 ALS Bottle#: 14 Worklist Smp#: 20  
 Purge Vol: 5.000 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
9.72	43.00	459	0.242653
9.69	58.00	0	
9.72	85.00	994	

Reviewer: bowieh, 28-Jan-2020 09:46:09

Audit Action: Marked Compound Undetected

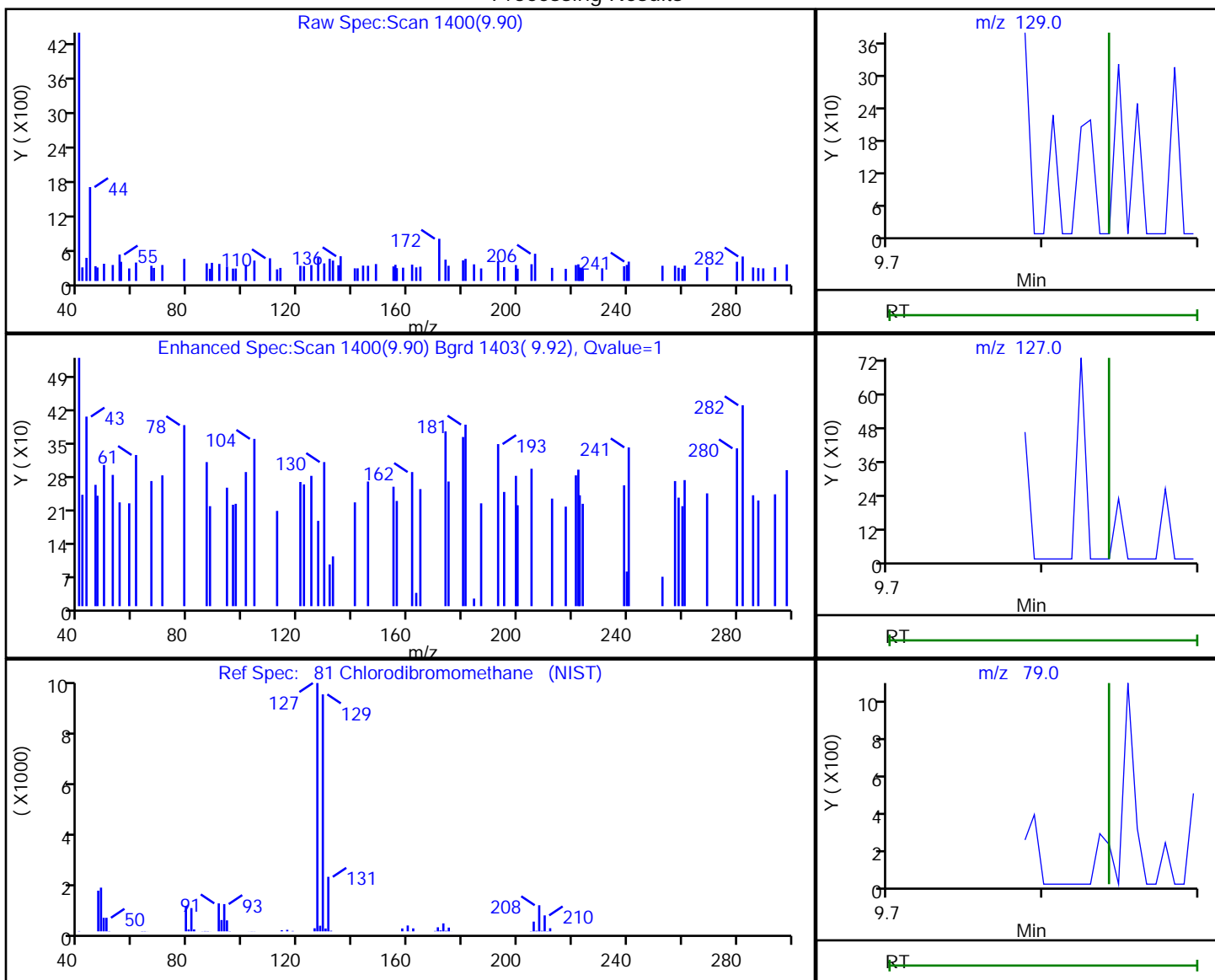
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Eurofins TestAmerica, Pittsburgh

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 Lims ID: 180-101459-A-14 Lab Sample ID: 180-101459-14  
 Client ID: HD-QC1-0/1-2  
 Operator ID: 433269 ALS Bottle#: 14 Worklist Smp#: 20  
 Purge Vol: 5.000 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
9.90	129.00	203	0.113191
9.90	127.00	147	
9.90	79.00	174	

Reviewer: bowieh, 28-Jan-2020 09:46:11

Audit Action: Marked Compound Undetected

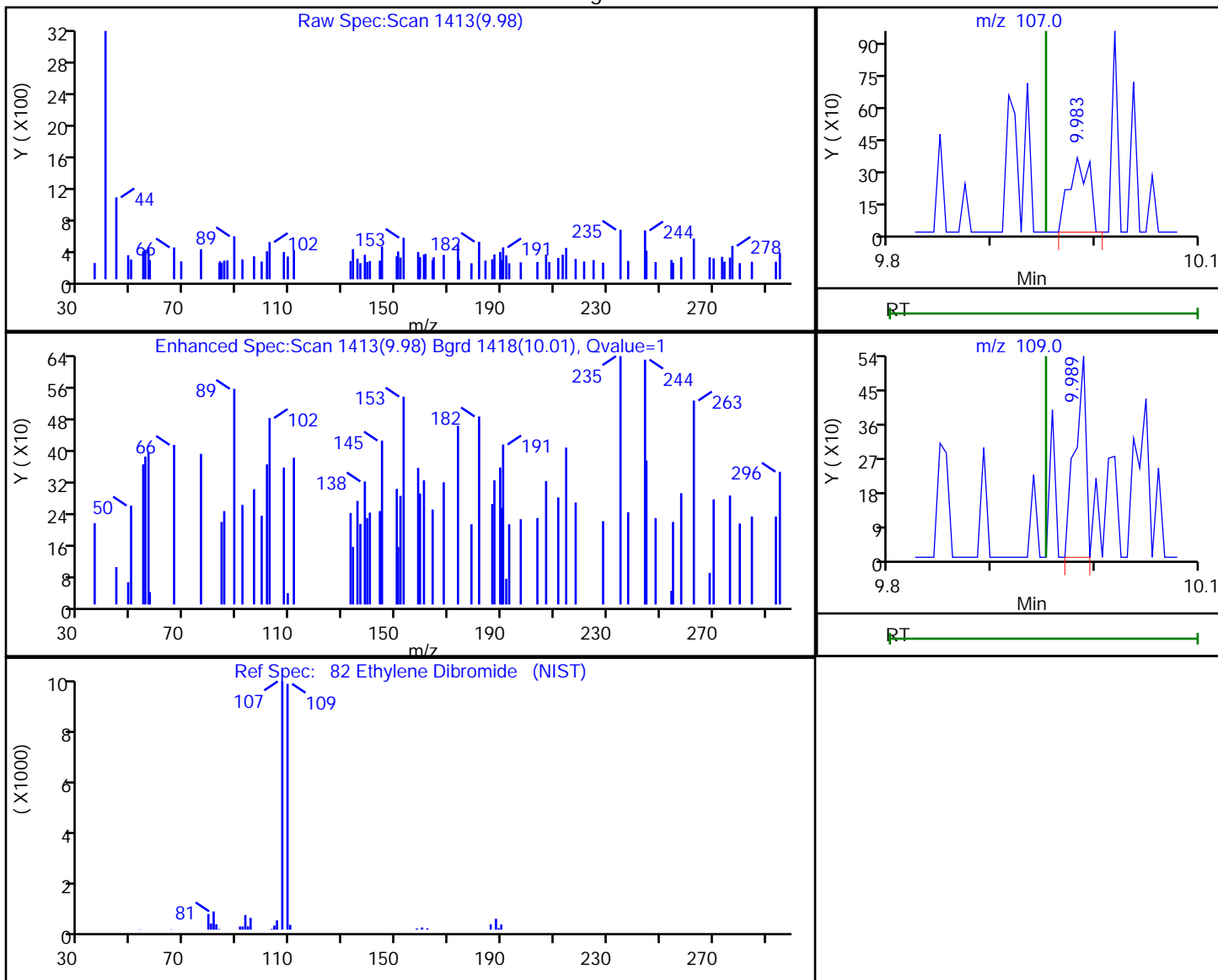
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Eurofins TestAmerica, Pittsburgh

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 Lims ID: 180-101459-A-14 Lab Sample ID: 180-101459-14  
 Client ID: HD-QC1-0/1-2  
 Operator ID: 433269 ALS Bottle#: 14 Worklist Smp#: 20  
 Purge Vol: 5.000 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
9.98	107.00	480	0.229046
9.99	109.00	399	

Reviewer: bowieh, 28-Jan-2020 09:46:12

Audit Action: Marked Compound Undetected

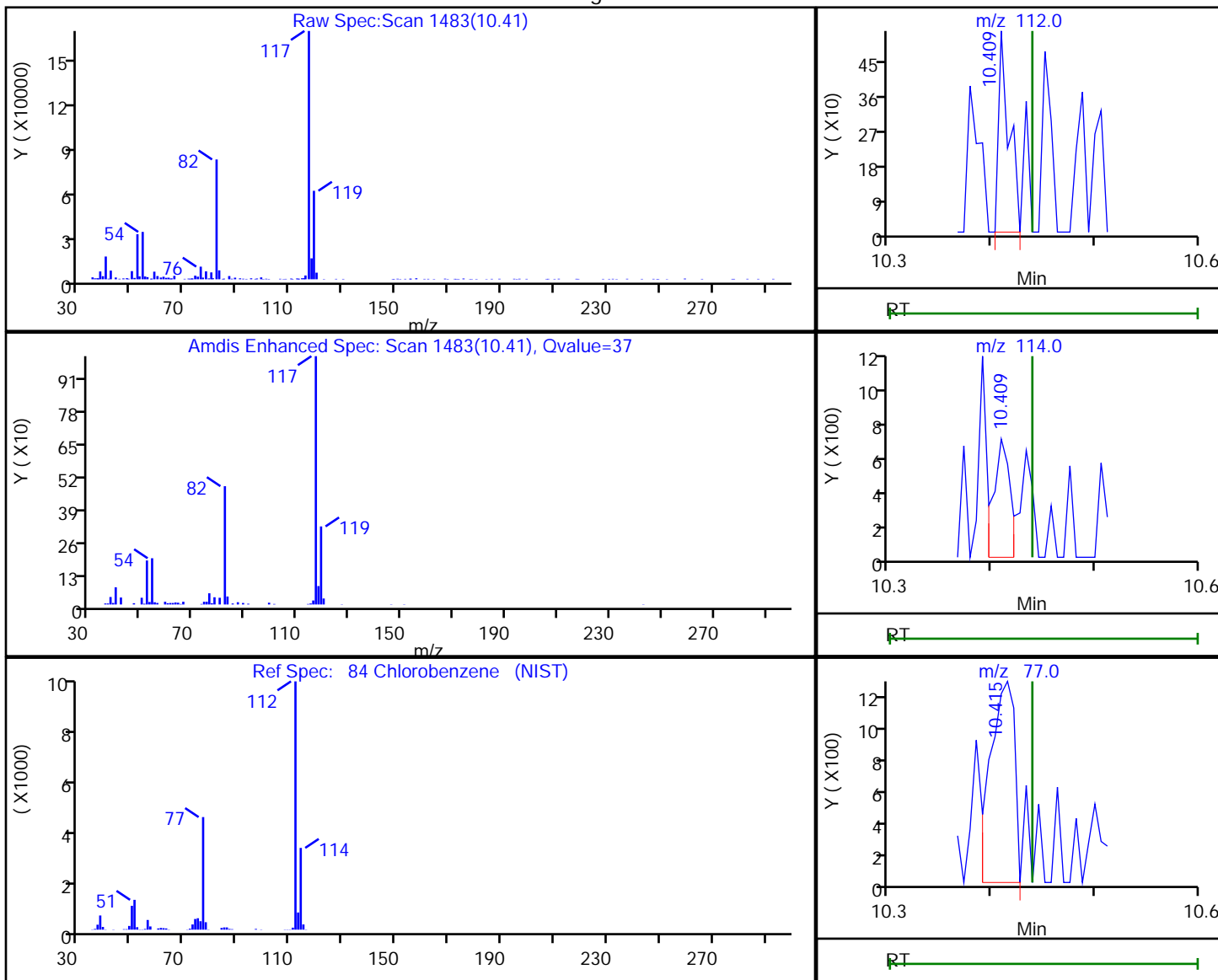
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 Lims ID: 180-101459-A-14 Lab Sample ID: 180-101459-14  
 Client ID: HD-QC1-0/1-2  
 Operator ID: 433269 ALS Bottle#: 14 Worklist Smp#: 20  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
 Column: DB-624 (0.18 mm) Detector: MS SCAN

84 Chlorobenzene, CAS: 108-90-7

Processing Results



RT	Mass	Response	Amount
10.41	112.00	372	0.047813
10.41	114.00	790	
10.41	77.00	1964	

Reviewer: bowieh, 28-Jan-2020 09:46:14

Audit Action: Marked Compound Undetected

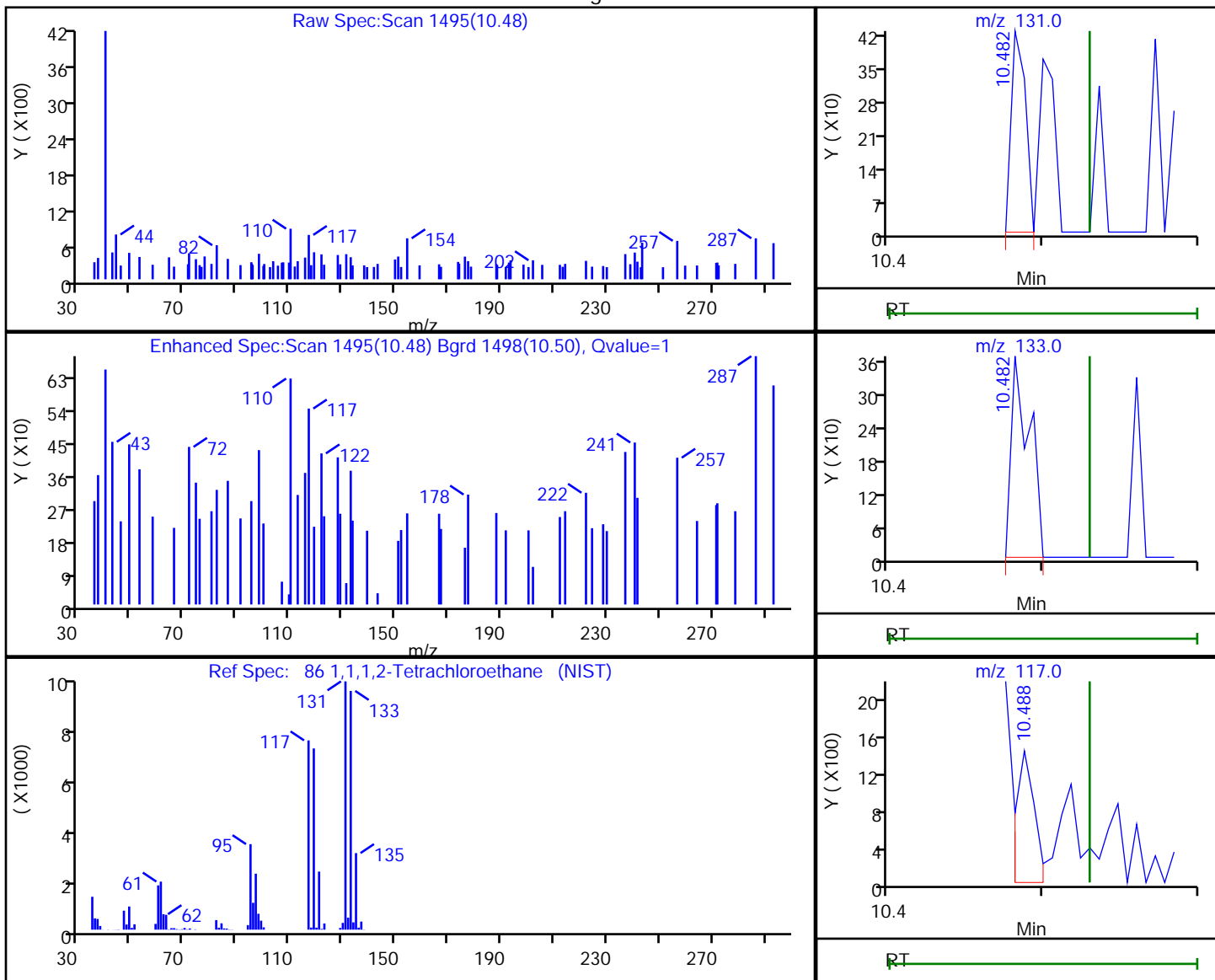
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 Lims ID: 180-101459-A-14 Lab Sample ID: 180-101459-14  
 Client ID: HD-QC1-0/1-2  
 Operator ID: 433269 ALS Bottle#: 14 Worklist Smp#: 20  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
 Column: DB-624 (0.18 mm) Detector: MS SCAN

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

Processing Results



RT	Mass	Response	Amount
10.48	131.00	271	0.118581
10.48	133.00	305	
10.49	117.00	1177	

Reviewer: bowieh, 28-Jan-2020 09:46:15

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

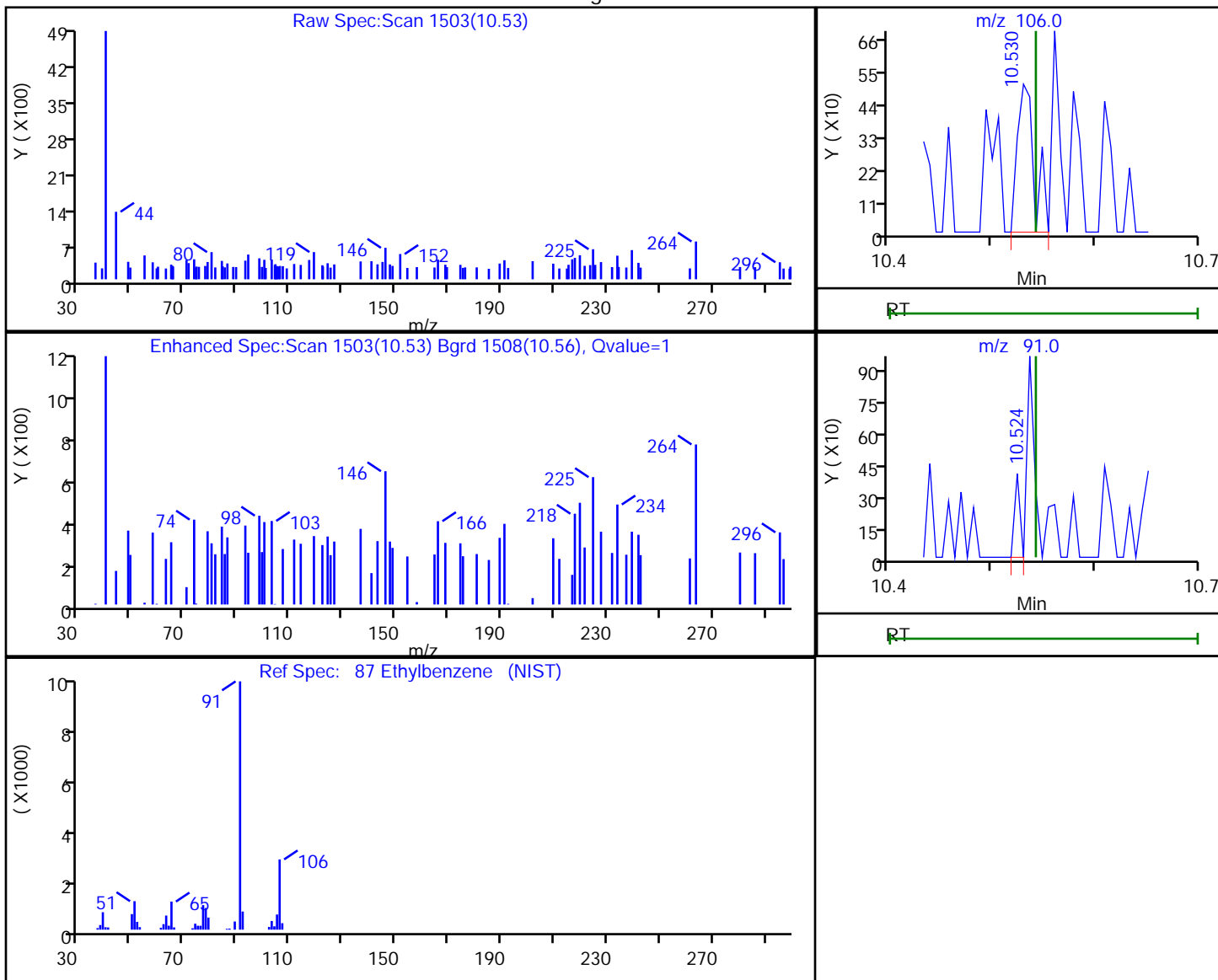


Eurofins TestAmerica, Pittsburgh

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 Lims ID: 180-101459-A-14 Lab Sample ID: 180-101459-14  
 Client ID: HD-QC1-0/1-2  
 Operator ID: 433269 ALS Bottle#: 14 Worklist Smp#: 20  
 Purge Vol: 5.000 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
10.53	106.00	578	0.129817
10.52	91.00	147	

Reviewer: bowieh, 28-Jan-2020 09:46:16

Audit Action: Marked Compound Undetected

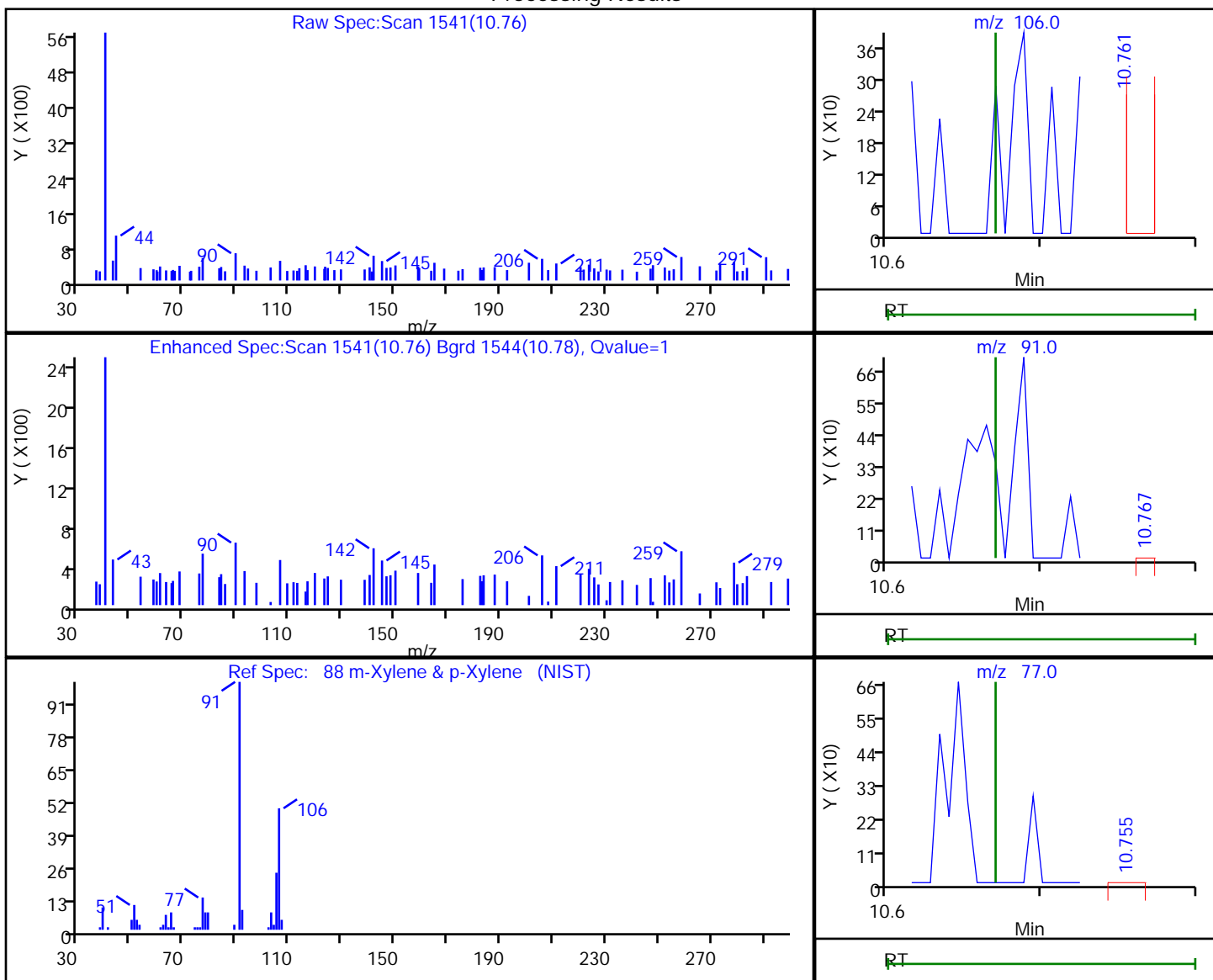
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Eurofins TestAmerica, Pittsburgh

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 Lims ID: 180-101459-A-14 Lab Sample ID: 180-101459-14  
 Client ID: HD-QC1-0/1-2  
 Operator ID: 433269 ALS Bottle#: 14 Worklist Smp#: 20  
 Purge Vol: 5.000 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	238	0.044592
10.77	91.00	204	
10.76	77.00	586	

Reviewer: bowieh, 28-Jan-2020 09:46:17

Audit Action: Marked Compound Undetected

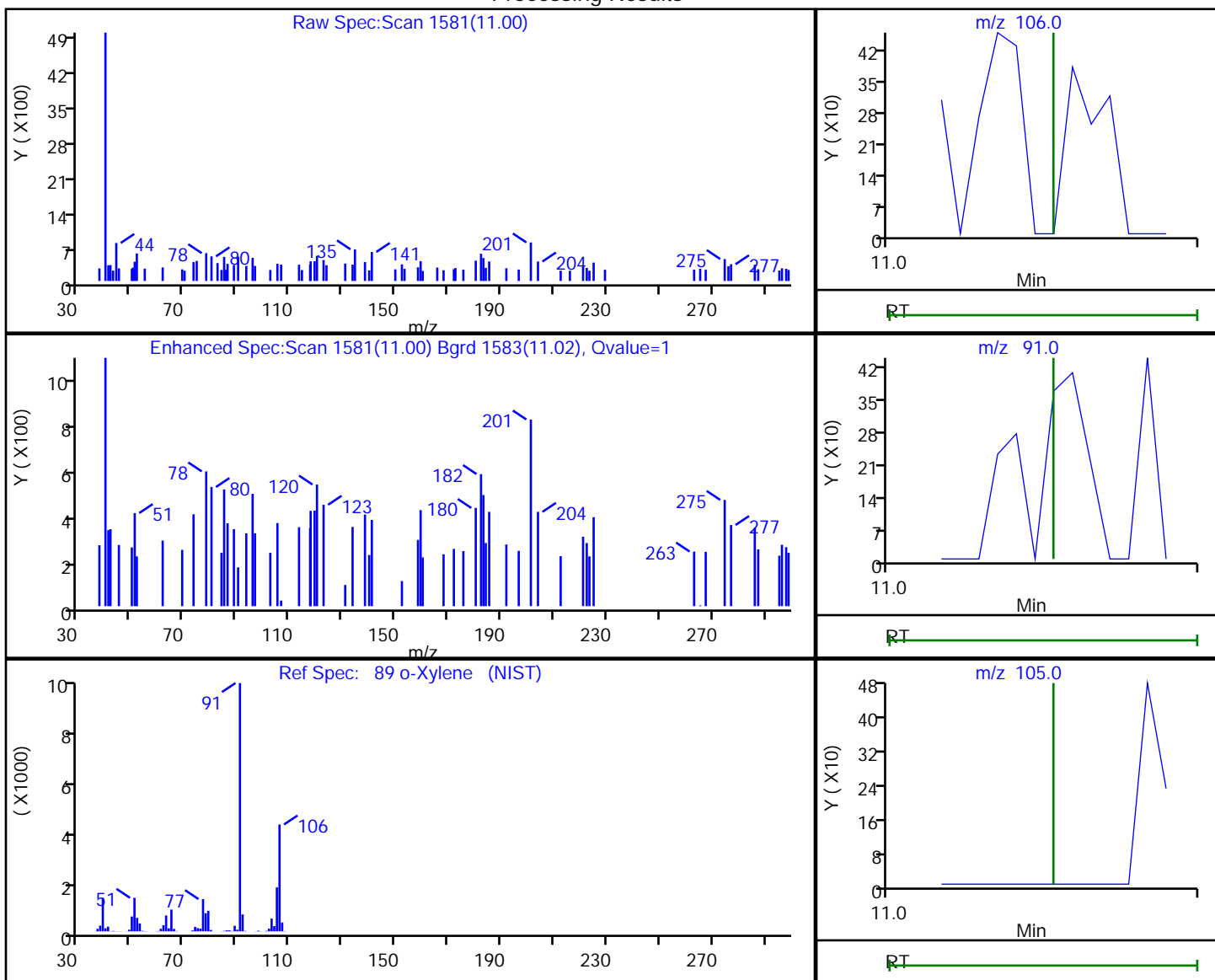
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012520.D  
 Injection Date: 25-Jan-2020 19:21:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-A-14 Lab Sample ID: 180-101459-14  
 Client ID: HD-QC1-0/1-2  
 Operator ID: 433269 ALS Bottle#: 14 Worklist Smp#: 20  
 Purge Vol: 5.000 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	119	0.023433
11.00	91.00	202	
11.00	105.00	124	

Reviewer: bowieh, 28-Jan-2020 09:46:18

Audit Action: Marked Compound Undetected

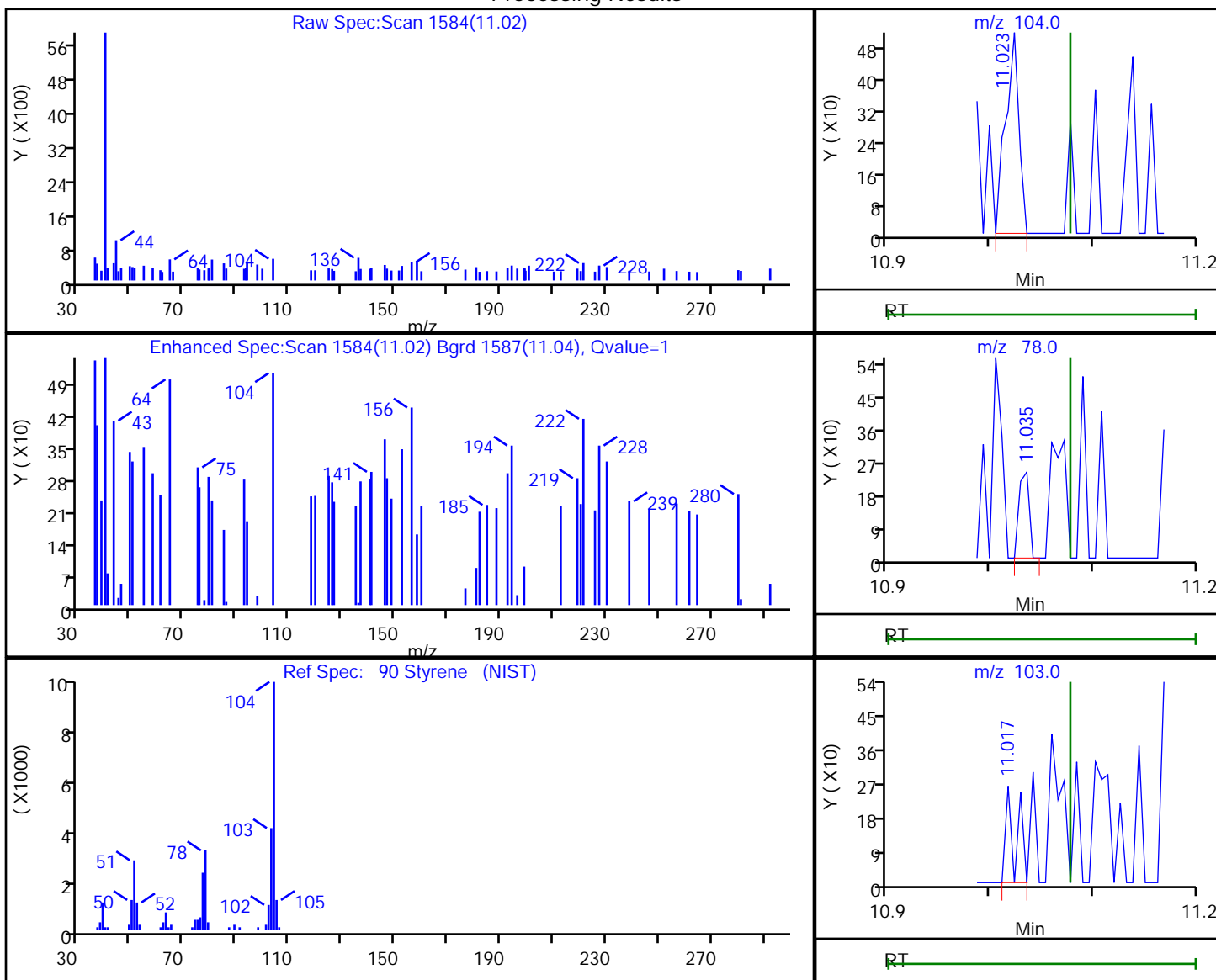
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012520.D  
 Injection Date: 25-Jan-2020 19:21:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-A-14 Lab Sample ID: 180-101459-14  
 Client ID: HD-QC1-0/1-2  
 Operator ID: 433269 ALS Bottle#: 14 Worklist Smp#: 20  
 Purge Vol: 5.000 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
11.02	104.00	463	0.057552
11.04	78.00	163	
11.02	103.00	181	

Reviewer: bowieh, 28-Jan-2020 09:46:20

Audit Action: Marked Compound Undetected

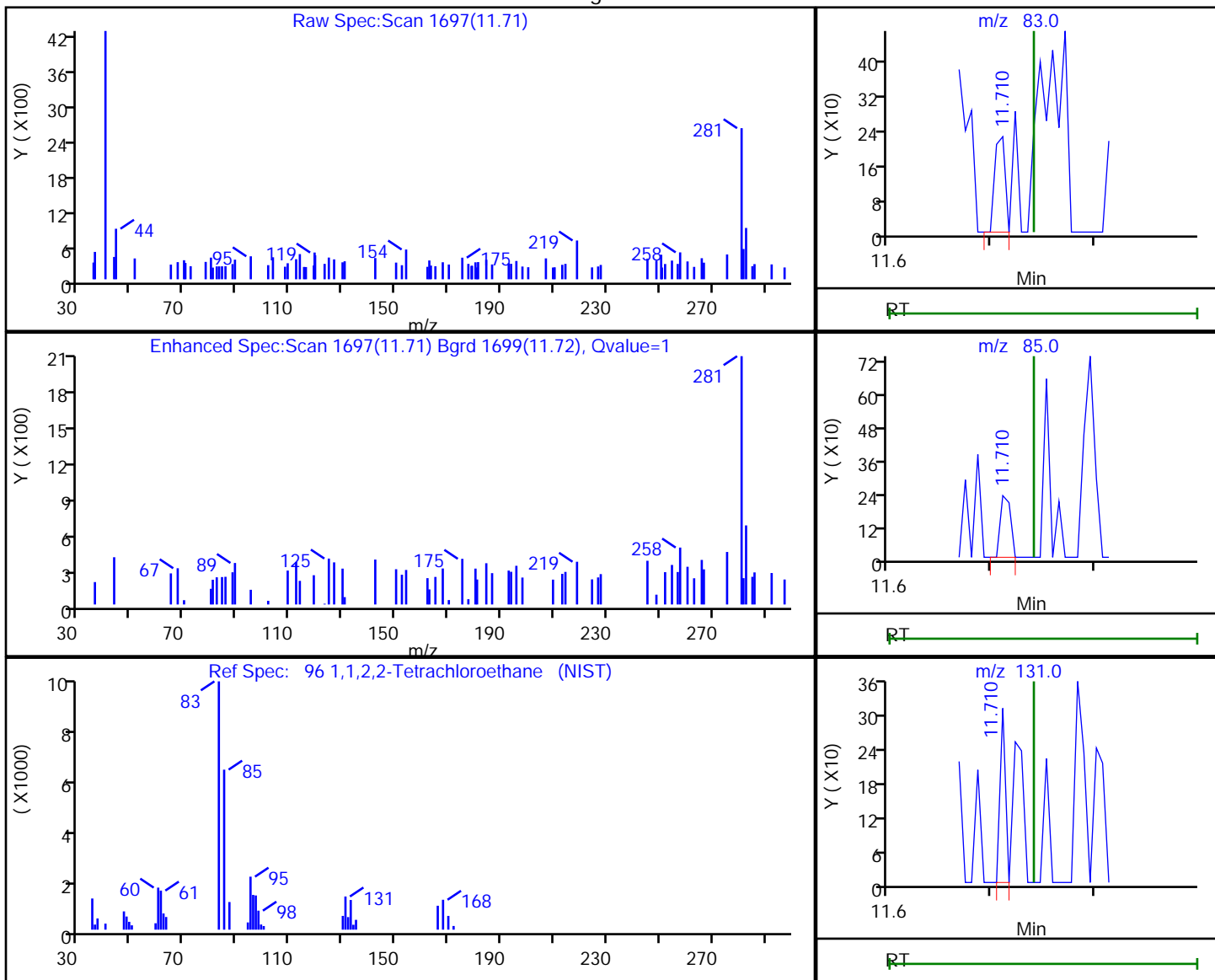
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012520.D  
 Injection Date: 25-Jan-2020 19:21:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-A-14 Lab Sample ID: 180-101459-14  
 Client ID: HD-QC1-0/1-2  
 Operator ID: 433269 ALS Bottle#: 14 Worklist Smp#: 20  
 Purge Vol: 5.000 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
11.71	83.00	156	0.068924
11.71	85.00	155	
11.71	131.00	114	

Reviewer: bowieh, 28-Jan-2020 09:46:21

Audit Action: Marked Compound Undetected

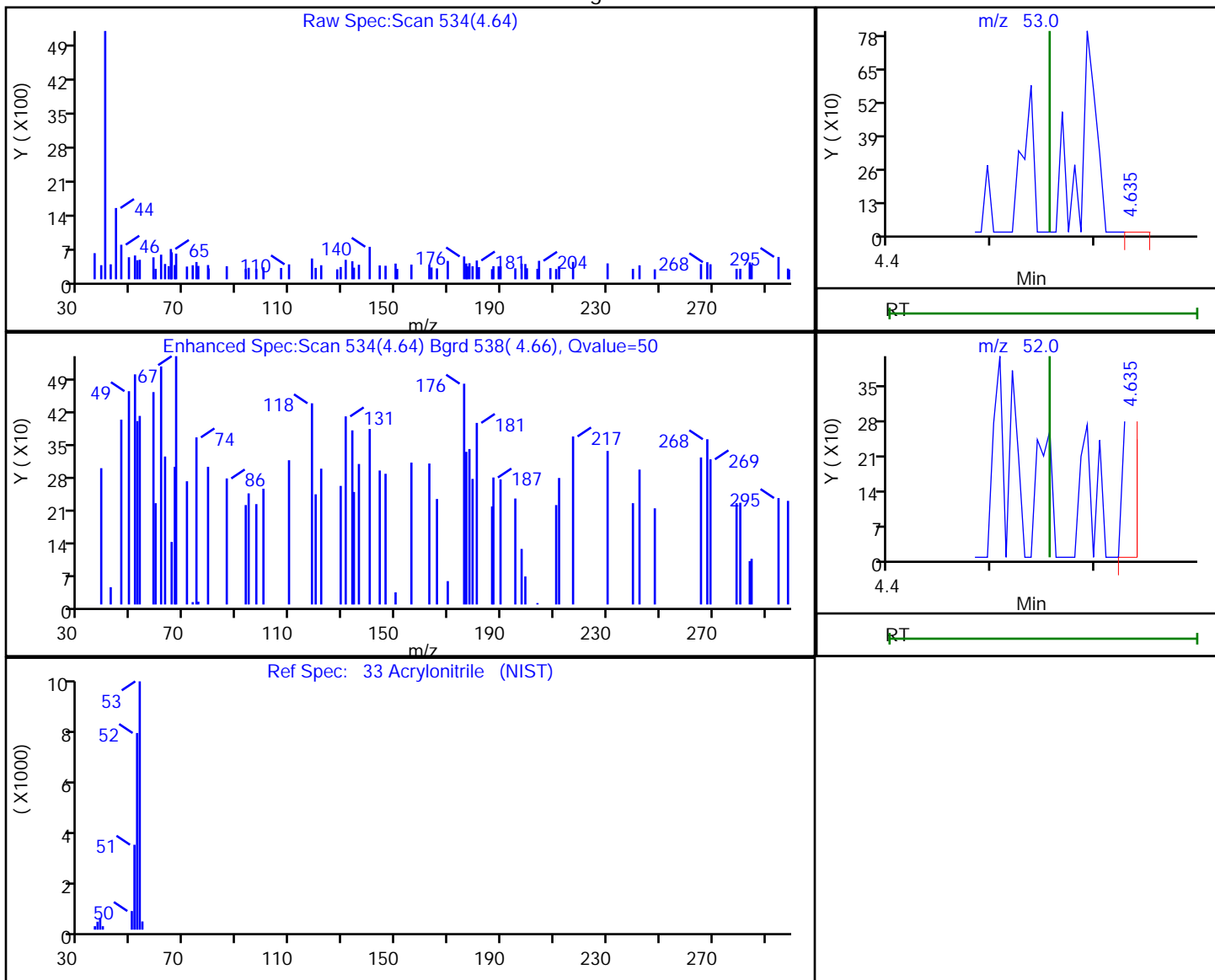
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012520.D  
 Injection Date: 25-Jan-2020 19:21:30 Instrument ID: CHHP6  
 Lims ID: 180-101459-A-14 Lab Sample ID: 180-101459-14  
 Client ID: HD-QC1-0/1-2  
 Operator ID: 433269 ALS Bottle#: 14 Worklist Smp#: 20  
 Purge Vol: 5.000 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	324	0.374340
4.64	52.00	244	

Reviewer: bowieh, 28-Jan-2020 09:45:45

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.: 180-101459-1 Analy Batch No.: 302982

SDG No.: \_\_\_\_\_

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/31/2019 12:53 Calibration End Date: 12/31/2019 16:03 Calibration ID: 42450

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-302982/4	6123104.D
Level 2	IC 180-302982/5	6123105.D
Level 3	ICIS 180-302982/6	6123106.D
Level 4	IC 180-302982/7	6123107.D
Level 5	IC 180-302982/8	6123108.D
Level 6	IC 180-302982/9	6123109.D
Level 7	IC 180-302982/10	6123110.D
Level 8	IC 180-302982/11	6123111.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R <sup>2</sup> OR COD	#	MIN R <sup>2</sup> OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
Dichlorodifluoromethane	0.4383 0.3283	0.3340 0.3164	0.3257 0.3031	0.3466	0.3596	Ave		0.3440			0.1000	12.2		20.0			
Chloromethane	0.4283 0.3747	0.3558 0.3875	0.3618 0.3784	0.3766	0.3852	Ave		0.3810			0.1000	5.8		20.0			
Vinyl chloride	0.3642 0.3181	0.3162 0.3365	0.3047 0.3186	0.3187	0.3462	Ave		0.3279			0.1000	5.9		20.0			
1,3-Butadiene	0.4302 0.3113	0.3128 0.3363	0.3124 0.3167	0.3174	0.3449	Ave		0.3353			0.0100	12.0		20.0			
Bromomethane	0.2517 0.2022	0.2111 0.2078	0.1976 0.1867	0.2080	0.2085	Ave		0.2092			0.0500	9.0		20.0			
Chloroethane	0.2725 0.2284	0.2364 0.2403	0.2422 0.2195	0.2311	0.2400	Ave		0.2388			0.0500	6.5		20.0			
Dichlorofluoromethane	0.5625 0.4673	0.4775 0.4896	0.4648 0.4822	0.4755	0.4917	Ave		0.4889			0.0100	6.4		20.0			
Trichlorofluoromethane	0.5562 0.4141	0.4562 0.4449	0.4388 0.4272	0.4499	0.4519	Ave		0.4549			0.1000	9.5		20.0			
Ethyl ether	0.2504 0.2317	0.2277 0.2571	0.2275 0.2471	0.2321	0.2308	Ave		0.2381			0.0100	4.9		20.0			
1,1-Dichloroethene	0.2716 0.2247	0.2343 0.2385	0.2318 0.2292	0.2336	0.2517	Ave		0.2394			0.1000	6.4		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.3053 0.2531	0.2633 0.2590	0.2524 0.2426	0.2604	0.2788	Ave		0.2644			0.1000	7.4		20.0			
Acetone	0.1185 0.1184	0.1299 0.1316	0.1212 0.1179	0.1196	0.1191	Ave		0.1220			0.0500	4.5		20.0			
Iodomethane	0.5069 0.4427	0.4463 0.4634	0.4316 0.4547	0.4538	0.4593	Ave		0.4573			0.0100	4.9		20.0			
Carbon disulfide	0.5190 0.5644	0.4567 0.5885	0.4789 0.6011	0.5203	0.5802	Ave		0.5386			0.1000	9.9		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.: 180-101459-1 Analy Batch No.: 302982

SDG No.: \_\_\_\_\_

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/31/2019 12:53 Calibration End Date: 12/31/2019 16:03 Calibration ID: 42450

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														
Allyl chloride	0.1390 0.1379	0.1240 0.1487	0.1276 0.1425	0.1324	0.1357	Ave		0.1360		0.0100	5.9		20.0				
Methyl acetate	0.2244 0.1898	0.1773 0.1993	0.1773 0.1908	0.1836	0.1826	Ave		0.1906		0.1000	8.1		20.0				
Methylene Chloride	0.6084 0.2614	0.3162 0.2786	0.2859 0.2541	0.2810	0.2773	Lin2	1.7594	0.2548		0.1000				0.9990		0.9900	
tert-Butyl alcohol	1.1376 1.0804	1.0358 1.1513	1.0628 1.1371	1.0245	1.1357	Ave		1.0956		0.0100	4.6		20.0				
Acrylonitrile	0.0991 0.0985	0.0923 0.1056	0.0956 0.1010	0.0972	0.0965	Ave		0.0982		0.0100	4.0		20.0				
trans-1,2-Dichloroethene	0.3141 0.2595	0.2631 0.2731	0.2609 0.2616	0.2711	0.2741	Ave		0.2722		0.1000	6.6		20.0				
Methyl tert-butyl ether	0.5535 0.5109	0.4978 0.5709	0.5023 0.5440	0.5209	0.5179	Ave		0.5273		0.1000	4.9		20.0				
Hexane	0.4536 0.3978	0.3976 0.4246	0.3930 0.3945	0.4015	0.4340	Ave		0.4121		0.0100	5.5		20.0				
1,1-Dichloroethane	0.4699 0.4247	0.4243 0.4595	0.4231 0.4279	0.4339	0.4506	Ave		0.4392		0.2000	4.2		20.0				
2,2-Dichloropropane	0.0697 0.0550	0.0527 0.0548	0.0535 0.0552	0.0513	0.0584	Ave		0.0563		0.0100	10.3		20.0				
cis-1,2-Dichloroethene	0.3328 0.2784	0.2865 0.3007	0.2808 0.2830	0.2875	0.2948	Ave		0.2931		0.1000	6.0		20.0				
2-Butanone (MEK)	0.1505 0.1555	0.1489 0.1625	0.1510 0.1570	0.1525	0.1501	Ave		0.1535		0.0500	3.0		20.0				
Bromochloromethane	0.1743 0.1412	0.1438 0.1588	0.1460 0.1468	0.1508	0.1446	Ave		0.1508		0.0100	7.2		20.0				
Tetrahydrofuran	0.1040 0.0756	0.0697 0.0829	0.0684 0.0774	0.0681	0.0743	Lin2	0.2982	0.0720		0.0100				0.9910		0.9900	
Chloroform	0.6980 0.3934	0.4325 0.4205	0.4136 0.3938	0.4041	0.4104	Lin2	1.5271	0.3889		0.2000				0.9990		0.9900	
1,1,1-Trichloroethane	0.3791 0.3179	0.3215 0.3472	0.3278 0.3225	0.3304	0.3523	Ave		0.3373		0.1000	6.2		20.0				
Cyclohexane	0.5423 0.5105	0.4869 0.5445	0.4873 0.5027	0.5123	0.5445	Ave		0.5164		0.1000	4.7		20.0				
Carbon tetrachloride	0.2884 0.2821	0.2631 0.3009	0.2660 0.2855	0.2785	0.3052	Ave		0.2837		0.1000	5.2		20.0				
1,1-Dichloropropene	0.3644 0.3269	0.3117 0.3398	0.3309 0.3255	0.3347	0.3509	Ave		0.3356		0.0100	4.8		20.0				
Isobutyl alcohol	0.0078 0.0069	0.0065 0.0076	0.0066 0.0073	0.0064	0.0068	Ave		0.0070	*	0.0100	7.6		20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.



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

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-101459-1 Analy Batch No.: 302982

SDG No.: \_\_\_\_\_

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/31/2019 12:53 Calibration End Date: 12/31/2019 16:03 Calibration ID: 42450

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														
Benzene	1.1746 1.0515	1.0491 1.1121	1.0365 1.0586	1.0682	1.0942	Ave		1.0806		0.5000	4.2		20.0				
1,2-Dichloroethane	0.3291 0.2855	0.2807 0.3200	0.2902 0.2947	0.2930	0.2878	Ave		0.2976		0.1000	5.8		20.0				
n-Heptane	0.3554 0.3181	0.3192 0.3464	0.2969 0.3192	0.3112	0.3333	Ave		0.3250		0.0100	5.9		20.0				
Trichloroethene	0.3377 0.3074	0.3266 0.3287	0.3074 0.3088	0.3125	0.3334	Ave		0.3203		0.2000	3.9		20.0				
Methylcyclohexane	0.4294 0.4327	0.4087 0.4669	0.4298 0.4313	0.4258	0.4682	Ave		0.4366		0.1000	4.7		20.0				
1,2-Dichloropropane	0.2462 0.2471	0.2518 0.2693	0.2466 0.2585	0.2473	0.2570	Ave		0.2530		0.1000	3.2		20.0				
Dibromomethane	0.1634 0.1299	0.1346 0.1435	0.1284 0.1326	0.1333	0.1293	Ave		0.1369		0.0100	8.6		20.0				
1,4-Dioxane	0.0035 0.0027	0.0028 0.0025	0.0026 0.0027	0.0027	0.0025	Ave		0.0028	*	0.0100	11.3		20.0				
Bromodichloromethane	0.2153 0.2411	0.2026 0.2735	0.2238 0.2614	0.2331	0.2407	Ave		0.2365		0.2000	9.8		20.0				
cis-1,3-Dichloropropene	0.2571 0.3311	0.2560 0.3734	0.2728 0.3508	0.2911	0.3139	Ave		0.3058		0.2000	14.3		20.0				
4-Methyl-2-pentanone (MIBK)	0.7195 0.9633	0.7685 1.0333	0.8458 0.9917	0.8671	0.9029	Ave		0.8865		0.1000	12.3		20.0				
Toluene	4.9095 4.6703	4.5651 4.8535	4.5860 4.6490	4.5499	4.9121	Ave		4.7119		0.4000	3.3		20.0				
trans-1,3-Dichloropropene	0.8959 1.1388	0.8407 1.2294	0.9611 1.1962	0.9474	1.0317	Ave		1.0302		0.1000	14.0		20.0				
Ethyl methacrylate	0.8604 1.1030	0.7945 1.2211	0.9330 1.1504	0.9685	1.0596	Ave		1.0113		0.0100	14.6		20.0				
1,1,2-Trichloroethane	0.9534 0.8179	0.8513 0.8818	0.8471 0.8347	0.8433	0.8284	Ave		0.8572		0.1000	5.0		20.0				
Tetrachloroethene	1.2848 1.1140	1.1791 1.1542	1.1724 1.0740	1.1135	1.2208	Ave		1.1641		0.2000	5.8		20.0				
1,3-Dichloropropane	1.4449 1.3917	1.4396 1.4799	1.4159 1.4319	1.3644	1.4134	Ave		1.4227		0.0100	2.5		20.0				
2-Hexanone	0.5877 0.8167	0.7199 0.8785	0.7318 0.8451	0.7363	0.7931	Ave		0.7636		0.1000	11.9		20.0				
Dibromochloromethane	0.5651 0.7792	0.6227 0.8687	0.6815 0.8340	0.6959	0.7452	Ave		0.7240		0.1000	14.3		20.0				
1,2-Dibromoethane (EDB)	0.9057 0.8423	0.7791 0.9117	0.8299 0.8653	0.8168	0.8174	Ave		0.8460		0.1000	5.4		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.: 180-101459-1 Analy Batch No.: 302982

SDG No.: \_\_\_\_\_

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/31/2019 12:53 Calibration End Date: 12/31/2019 16:03 Calibration ID: 42450

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														
Chlorobenzene	3.3644 3.0874	3.0297 3.2587	3.0690 3.0691	3.0800	3.1692	Ave		3.1409		0.5000	3.7		20.0				
1,1,1,2-Tetrachloroethane	0.8912 0.9461	0.8440 1.0236	0.8935 0.9697	0.8857	0.9271	Ave		0.9226		0.0100	6.1		20.0				
Ethylbenzene	1.7634 1.7638	1.7689 1.8388	1.8562 1.7549	1.7741	1.8595	Ave		1.7975		0.1000	2.5		20.0				
m-Xylene & p-Xylene	1.8881 2.1484	2.0382 2.3077	2.1791 2.1921	2.1651	2.3187	Ave		2.1547		0.1000	6.5		20.0				
o-Xylene	1.8992 2.0266	1.9731 2.2027	2.0838 2.0559	2.0142	2.1454	Ave		2.0501		0.3000	4.7		20.0				
Styrene	2.8981 3.3217	2.9308 3.6380	3.1707 3.4339	3.2010	3.3879	Ave		3.2478		0.3000	7.7		20.0				
Bromoform	0.3431 0.4888	0.3433 ++++	0.3716 ++++	0.4106	0.4509	Ave		0.4014		0.1000	14.9		20.0				
Isopropylbenzene	4.7881 5.1953	4.7643 5.5259	5.1105 5.2053	4.9743	5.5154	Ave		5.1349		0.1000	5.7		20.0				
1,1,2,2-Tetrachloroethane	0.9065 0.9040	0.8966 0.9767	0.9206 0.9239	0.8416	0.9399	Ave		0.9137		0.3000	4.2		20.0				
Bromobenzene	0.9421 0.7849	0.8010 0.8493	0.8067 0.8174	0.7711	0.8217	Ave		0.8243		0.0100	6.5		20.0				
trans-1,4-Dichloro-2-butene	0.1611 0.1787	0.1546 0.1912	0.1578 0.1920	0.1640	0.1678	Ave		0.1709		0.0100	8.6		20.0				
1,2,3-Trichloropropane	0.3479 0.2181	0.2391 0.2308	0.2301 0.2222	0.2168	0.2124	Lin2	0.6598	0.2151		0.0100				0.9990		0.9900	
N-Propylbenzene	0.9879 0.9439	0.9110 0.9980	0.9300 0.9664	0.9117	1.0253	Ave		0.9593		0.0100	4.4		20.0				
2-Chlorotoluene	0.8119 0.7570	0.7624 0.8064	0.7709 0.7859	0.7435	0.8164	Ave		0.7818		0.0100	3.5		20.0				
1,3,5-Trimethylbenzene	2.1984 2.4101	2.2090 2.5945	2.3725 2.5299	2.2927	2.5968	Ave		2.4005		0.0100	6.7		20.0				
4-Chlorotoluene	0.7873 0.8042	0.7823 0.8440	0.8273 0.8144	0.8096	0.8178	Ave		0.8109		0.0100	2.5		20.0				
tert-Butylbenzene	2.1337 2.1305	1.9188 2.3161	2.1008 2.2203	2.0779	2.2743	Ave		2.1466		0.0100	5.8		20.0				
1,2,4-Trimethylbenzene	2.1763 2.4178	2.1500 2.5804	2.3717 2.5102	2.2991	2.5539	Ave		2.3824		0.0100	6.9		20.0				
sec-Butylbenzene	2.8982 2.8622	2.6010 3.0736	2.7800 2.9675	2.7395	3.0442	Ave		2.8708		0.0100	5.6		20.0				
1,3-Dichlorobenzene	1.6614 1.4690	1.5368 1.5847	1.4943 1.5199	1.4569	1.5662	Ave		1.5362		0.6000	4.4		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.: 180-101459-1 Analy Batch No.: 302982

SDG No.: \_\_\_\_\_

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/31/2019 12:53 Calibration End Date: 12/31/2019 16:03 Calibration ID: 42450

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														
4-Isopropyltoluene	2.3761 2.5180	2.2510 2.7311	2.4413 2.6183	2.4263	2.7121	Ave		2.5093			0.0100	6.7	20.0				
1,4-Dichlorobenzene	1.7789 1.5082	1.5000 1.5997	1.5351 1.5673	1.4633	1.5324	Ave		1.5606			0.5000	6.2	20.0				
n-Butylbenzene	1.8517 1.8270	1.6498 1.9664	1.7277 1.8930	1.6933	1.9537	Ave		1.8203			0.0100	6.5	20.0				
1,2-Dichlorobenzene	1.5410 1.3856	1.3994 1.5020	1.3984 1.4485	1.3897	1.4514	Ave		1.4395			0.4000	4.0	20.0				
1,2-Dibromo-3-Chloropropane	0.0932 0.0702	0.0585 0.0779	0.0649 0.0773	0.0650	0.0725	Ave		0.0724			0.0500	14.7	20.0				
1,2,4-Trichlorobenzene	0.7724 0.6764	0.6171 0.7335	0.6512 0.7357	0.6275	0.6922	Ave		0.6882			0.2000	8.1	20.0				
Hexachlorobutadiene	0.4172 0.2980	0.2882 0.3335	0.3180 0.3364	0.3115	0.3322	Ave		0.3294			0.0100	12.0	20.0				
Naphthalene	1.6013 1.6523	1.2280 1.8579	1.4148 1.8770	1.4662	1.6395	Ave		1.5921			0.0100	13.8	20.0				
1,2,3-Trichlorobenzene	0.6598 0.5578	0.4989 0.6148	0.5250 0.6329	0.5366	0.5791	Ave		0.5756			0.0100	9.8	20.0				
Dibromofluoromethane (Surr)	0.2594 0.2166	0.2229 0.2252	0.2265 0.2122	0.2182	0.2214	Ave		0.2253				6.5	20.0				
1,2-Dichloroethane-d4 (Surr)	0.2800 0.2166	0.2340 0.2338	0.2311 0.2191	0.2365	0.2246	Ave		0.2345				8.4	20.0				
Toluene-d8 (Surr)	3.8146 3.7405	3.5262 3.7780	3.8652 3.5875	3.6502	3.6698	Ave		3.7040				3.1	20.0				
4-Bromofluorobenzene (Surr)	1.3865 1.2995	1.3315 1.3468	1.3737 1.2757	1.2773	1.2925	Ave		1.3229				3.3	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  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-101459-1 Analy Batch No.: 302982

SDG No.: \_\_\_\_\_

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/31/2019 12:53 Calibration End Date: 12/31/2019 16:03 Calibration ID: 42450

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-302982/4	6123104.D
Level 2	IC 180-302982/5	6123105.D
Level 3	ICIS 180-302982/6	6123106.D
Level 4	IC 180-302982/7	6123107.D
Level 5	IC 180-302982/8	6123108.D
Level 6	IC 180-302982/9	6123109.D
Level 7	IC 180-302982/10	6123110.D
Level 8	IC 180-302982/11	6123111.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8			LVL 6	LVL 7	LVL 8		
Dichlorodifluoromethane	FB	Ave	32269 838440	124050 916957	244534 1091360	372659	529947	5.00 175	25.0 200	50.0 250	75.0	100
Chloromethane	FB	Ave	31536 956886	132162 1123198	271598 1362518	404923	567680	5.00 175	25.0 200	50.0 250	75.0	100
Vinyl chloride	FB	Ave	26810 812480	117452 975168	228759 1147277	342666	510239	5.00 175	25.0 200	50.0 250	75.0	100
1,3-Butadiene	FB	Ave	31676 795081	116178 974729	234503 1140642	341314	508275	5.00 175	25.0 200	50.0 250	75.0	100
Bromomethane	FB	Ave	18531 516443	78392 602355	148357 672273	223652	307246	5.00 175	25.0 200	50.0 250	75.0	100
Chloroethane	FB	Ave	20066 583206	87800 696474	181851 790311	248489	353765	5.00 175	25.0 200	50.0 250	75.0	100
Dichlorofluoromethane	FB	Ave	41415 1193463	177362 1419011	348956 1736455	511335	724684	5.00 175	25.0 200	50.0 250	75.0	100
Trichlorofluoromethane	FB	Ave	40950 1057554	169440 1289463	329388 1538449	483738	666038	5.00 175	25.0 200	50.0 250	75.0	100
Ethyl ether	FB	Ave	18433 591608	84587 745276	170799 889829	249612	340220	5.00 175	25.0 200	50.0 250	75.0	100
1,1-Dichloroethene	FB	Ave	19997 573868	87039 691106	174024 825504	251209	370915	5.00 175	25.0 200	50.0 250	75.0	100
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	22475 646281	97812 750543	189453 873805	279982	410890	5.00 175	25.0 200	50.0 250	75.0	100
Acetone	FB	Ave	43621 604680	96526 762803	182040 849283	257166	351109	25.0 350	50.0 400	100 500	150	200
Iodomethane	FB	Ave	37321 1130706	165756 1343071	324025 1637535	487948	676940	5.00 175	25.0 200	50.0 250	75.0	100
Carbon disulfide	FB	Ave	38209 1441307	169621 1705694	359498 2164704	559517	855020	5.00 175	25.0 200	50.0 250	75.0	100
Allyl chloride	FB	Ave	10235 352242	46045 430902	95786 513084	142362	200044	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.: 180-101459-1 Analy Batch No.: 302982

SDG No.: \_\_\_\_\_

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/31/2019 12:53 Calibration End Date: 12/31/2019 16:03 Calibration ID: 42450

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
Methyl acetate	FB	Ave	33038 969277	131686 1155287	266128 1374276	394883	538302	10.0 350	50.0 400	100 500	150	200
Methylene Chloride	FB	Lin2	44789 667584	117457 807455	214608 915140	302158	408707	5.00 175	25.0 200	50.0 250	75.0	100
tert-Butyl alcohol	TBAd 9	Ave	12075 425312	54600 531756	110137 613067	166216	240083	50.0 1750	250 2000	500 2500	750	1000
Acrylonitrile	FB	Ave	72926 2515507	342776 3061635	717809 3635768	1045701	1421941	50.0 1750	250 2000	500 2500	750	1000
trans-1,2-Dichloroethene	FB	Ave	23123 662668	97719 791512	195890 942001	291466	404003	5.00 175	25.0 200	50.0 250	75.0	100
Methyl tert-butyl ether	FB	Ave	40754 1304645	184888 1654669	377114 1959234	560086	763227	5.00 175	25.0 200	50.0 250	75.0	100
Hexane	FB	Ave	33398 1015815	147662 1230742	295061 1420566	431758	639633	5.00 175	25.0 200	50.0 250	75.0	100
1,1-Dichloroethane	FB	Ave	34592 1084547	157611 1331753	317588 1540888	466563	664119	5.00 175	25.0 200	50.0 250	75.0	100
2,2-Dichloropropane	FB	Ave	5129 140375	19590 158842	40180 198958	55165	86033	5.00 175	25.0 200	50.0 250	75.0	100
cis-1,2-Dichloroethene	FB	Ave	24501 710879	106401 871555	210822 1019195	309164	434476	5.00 175	25.0 200	50.0 250	75.0	100
2-Butanone (MEK)	FB	Ave	55404 794495	110595 942102	226706 1130655	327967	442342	25.0 350	50.0 400	100 500	150	200
Bromochloromethane	FB	Ave	12832 360677	53398 460378	109597 528655	162176	213146	5.00 175	25.0 200	50.0 250	75.0	100
Tetrahydrofuran	FB	Lin2	15320 386197	51766 480360	102707 557253	146393	218899	10.0 350	50.0 400	100 500	150	200
Chloroform	FB	Lin2	51387 1004583	160630 1218729	310455 1418155	434580	604865	5.00 175	25.0 200	50.0 250	75.0	100
1,1,1-Trichloroethane	FB	Ave	27912 811785	119415 1006378	246104 1161504	355248	519186	5.00 175	25.0 200	50.0 250	75.0	100
Cyclohexane	FB	Ave	39924 1303865	180838 1578114	365822 1810380	550896	802510	5.00 175	25.0 200	50.0 250	75.0	100
Carbon tetrachloride	FB	Ave	21236 720412	97734 872031	199694 1027997	299455	449753	5.00 175	25.0 200	50.0 250	75.0	100
1,1-Dichloropropene	FB	Ave	26832 834863	115786 984900	248407 1172355	359920	517121	5.00 175	25.0 200	50.0 250	75.0	100
Isobutyl alcohol	FB	Ave	14370 440433	60553 551624	123016 660935	172075	249939	125 4375	625 5000	1250 6250	1875	2500
Benzene	FB	Ave	86476 2685302	389677 3223274	778140 3812089	1148621	1612645	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dichloroethane	FB	Ave	24231 729096	104252 927515	217838 1061196	315021	424213	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.: 180-101459-1 Analy Batch No.: 302982

SDG No.: \_\_\_\_\_

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/31/2019 12:53 Calibration End Date: 12/31/2019 16:03 Calibration ID: 42450

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-Heptane	FB	Ave	26165 812324	118576 1003903	222885 1149604	334619	491156	5.00 175	25.0 200	50.0 250	75.0	100
Trichloroethene	FB	Ave	24864 785177	121303 952603	230780 1111982	335993	491398	5.00 175	25.0 200	50.0 250	75.0	100
Methylcyclohexane	FB	Ave	31613 1104931	151804 1353308	322664 1553253	457914	690071	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dichloropropane	FB	Ave	18124 630944	93514 780441	185110 930749	265963	378762	5.00 175	25.0 200	50.0 250	75.0	100
Dibromomethane	FB	Ave	12030 331853	50000 415901	96417 477428	143335	190611	5.00 175	25.0 200	50.0 250	75.0	100
1,4-Dioxane	FB	Ave	5084 136668	21163 143078	39104 196812	59035	73552	100 3500	500 4000	1000 5000	1500	2000
Bromodichloromethane	FB	Ave	15852 615801	75266 792681	168012 941181	250699	354789	5.00 175	25.0 200	50.0 250	75.0	100
cis-1,3-Dichloropropene	FB	Ave	18929 845571	95092 1082176	204762 1263238	313034	462689	5.00 175	25.0 200	50.0 250	75.0	100
4-Methyl-2-pentanone (MIBK)	CBNZ d5	Ave	65784 1247958	142214 1554470	311809 1835296	483425	666317	25.0 350	50.0 400	100 500	150	200
Toluene	CBNZ d5	Ave	89782 3025285	422415 3650800	845343 4301627	1268290	1812476	5.00 175	25.0 200	50.0 250	75.0	100
trans-1,3-Dichloropropene	CBNZ d5	Ave	16384 737661	77793 924753	177162 1106798	264102	380673	5.00 175	25.0 200	50.0 250	75.0	100
Ethyl methacrylate	CBNZ d5	Ave	15734 714462	73520 918501	171976 1064404	269970	390983	5.00 175	25.0 200	50.0 250	75.0	100
1,1,2-Trichloroethane	CBNZ d5	Ave	17436 529797	78773 663304	156144 772306	235084	305665	5.00 175	25.0 200	50.0 250	75.0	100
Tetrachloroethene	CBNZ d5	Ave	23496 721634	109103 868173	216115 993733	310380	450442	5.00 175	25.0 200	50.0 250	75.0	100
1,3-Dichloropropane	CBNZ d5	Ave	26423 901501	133204 1113156	261002 1324887	380334	521537	5.00 175	25.0 200	50.0 250	75.0	100
2-Hexanone	CBNZ d5	Ave	53741 1058014	133233 1321589	269796 1563960	410487	585263	25.0 350	50.0 400	100 500	150	200
Dibromochloromethane	CBNZ d5	Ave	10334 504721	57616 653447	125612 771661	193970	274963	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dibromoethane (EDB)	CBNZ d5	Ave	16562 545643	72089 685800	152974 800655	227694	301593	5.00 175	25.0 200	50.0 250	75.0	100
Chlorobenzene	CBNZ d5	Ave	61525 1999919	280340 2451147	565711 2839821	858546	1169395	5.00 175	25.0 200	50.0 250	75.0	100
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	16297 612886	78092 769950	164708 897246	246893	342078	5.00 175	25.0 200	50.0 250	75.0	100
Ethylbenzene	CBNZ d5	Ave	32248 1142570	163680 1383168	342150 1623783	494529	686125	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.: 180-101459-1 Analy Batch No.: 302982

SDG No.: \_\_\_\_\_

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/31/2019 12:53 Calibration End Date: 12/31/2019 16:03 Calibration ID: 42450

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
m-Xylene & p-Xylene	CBNZ d5	Ave	34528 1391660	188600 1735830	401674 2028296	603517	855559	5.00 175	25.0 200	50.0 250	75.0	100
o-Xylene	CBNZ d5	Ave	34732 1312809	182572 1656864	384100 1902336	561459	791626	5.00 175	25.0 200	50.0 250	75.0	100
Styrene	CBNZ d5	Ave	52999 2151713	271188 2736476	584450 3177293	892296	1250087	5.00 175	25.0 200	50.0 250	75.0	100
Bromoform	CBNZ d5	Ave	6275 316602	31763 +++++	68494 +++++	114451	166362	5.00 175	25.0 +++++	50.0 +++++	75.0	100
Isopropylbenzene	CBNZ d5	Ave	87562 3365361	440844 4156570	942019 4816430	1386588	2035090	5.00 175	25.0 200	50.0 250	75.0	100
1,1,2,2-Tetrachloroethane	CBNZ d5	Ave	16578 585611	82963 734650	169691 854871	234606	346817	5.00 175	25.0 200	50.0 250	75.0	100
Bromobenzene	DCBd 4	Ave	26378 831910	122297 1058314	246947 1203489	357865	493054	5.00 175	25.0 200	50.0 250	75.0	100
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	4511 189417	23600 238271	48306 282625	76111	100676	5.00 175	25.0 200	50.0 250	75.0	100
1,2,3-Trichloropropane	DCBd 4	Lin2	9741 231162	36502 287574	70431 327136	100626	127446	5.00 175	25.0 200	50.0 250	75.0	100
N-Propylbenzene	DCBd 4	Ave	27659 1000480	139097 1243693	284674 1422856	423140	615232	5.00 175	25.0 200	50.0 250	75.0	100
2-Chlorotoluene	DCBd 4	Ave	22733 802381	116406 1004860	235977 1157073	345066	489893	5.00 175	25.0 200	50.0 250	75.0	100
1,3,5-Trimethylbenzene	DCBd 4	Ave	61553 2554459	337264 3233042	726262 3724706	1064046	1558281	5.00 175	25.0 200	50.0 250	75.0	100
4-Chlorotoluene	DCBd 4	Ave	22042 852409	119439 1051737	253257 1198983	375722	490716	5.00 175	25.0 200	50.0 250	75.0	100
tert-Butylbenzene	DCBd 4	Ave	59742 2258081	292965 2886195	643097 3268999	964361	1364730	5.00 175	25.0 200	50.0 250	75.0	100
1,2,4-Trimethylbenzene	DCBd 4	Ave	60934 2562649	328267 3215541	726000 3695765	1067033	1532523	5.00 175	25.0 200	50.0 250	75.0	100
sec-Butylbenzene	DCBd 4	Ave	81147 3033683	397127 3830079	850992 4368992	1271381	1826693	5.00 175	25.0 200	50.0 250	75.0	100
1,3-Dichlorobenzene	DCBd 4	Ave	46518 1556952	234640 1974781	457428 2237699	676136	939833	5.00 175	25.0 200	50.0 250	75.0	100
4-Isopropyltoluene	DCBd 4	Ave	66527 2668796	343690 3403263	747300 3854847	1126040	1627420	5.00 175	25.0 200	50.0 250	75.0	100
1,4-Dichlorobenzene	DCBd 4	Ave	49806 1598507	229016 1993400	469927 2307469	679137	919517	5.00 175	25.0 200	50.0 250	75.0	100
n-Butylbenzene	DCBd 4	Ave	51846 1936439	251886 2450438	528878 2787099	785857	1172350	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dichlorobenzene	DCBd 4	Ave	43147 1468542	213656 1871699	428070 2132635	644960	870940	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.: 180-101459-1 Analy Batch No.: 302982

SDG No.: \_\_\_\_\_

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/31/2019 12:53 Calibration End Date: 12/31/2019 16:03 Calibration ID: 42450

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8			LVL 6	LVL 7	LVL 8		
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	2609 74403	8939 97023	19856 113785	30177	43484	5.00 175	25.0 200	50.0 250	75.0	100
1,2,4-Trichlorobenzene	DCBd 4	Ave	21626 716960	94223 914041	199328 1083166	291213	415344	5.00 175	25.0 200	50.0 250	75.0	100
Hexachlorobutadiene	DCBd 4	Ave	11680 315838	44009 415536	97343 495310	144561	199359	5.00 175	25.0 200	50.0 250	75.0	100
Naphthalene	DCBd 4	Ave	44834 1751264	187486 2315221	433085 2763484	680460	983791	5.00 175	25.0 200	50.0 250	75.0	100
1,2,3-Trichlorobenzene	DCBd 4	Ave	18474 591173	76173 766108	160700 931787	249036	347489	5.00 175	25.0 200	50.0 250	75.0	100
Dibromofluoromethane (Surr)	FB	Ave	19101 553281	82777 652804	170061 764032	234651	326244	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dichloroethane-d4 (Surr)	FB	Ave	20618 553111	86922 677569	173491 789128	254293	330948	5.00 175	25.0 200	50.0 250	75.0	100
Toluene-d8 (Surr)	CBNZ d5	Ave	69759 2423015	326283 2841771	712468 3319437	1017499	1354076	5.00 175	25.0 200	50.0 250	75.0	100
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	25356 841803	123203 1013057	253218 1180364	356044	476892	5.00 175	25.0 200	50.0 250	75.0	100

Curve Type Legend:

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



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

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-101459-1 Analy Batch No.: 302982

SDG No.: \_\_\_\_\_

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/31/2019 12:53 Calibration End Date: 12/31/2019 16:03 Calibration ID: 42450

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-302982/4	6123104.D
Level 2	IC 180-302982/5	6123105.D
Level 3	ICIS 180-302982/6	6123106.D
Level 4	IC 180-302982/7	6123107.D
Level 5	IC 180-302982/8	6123108.D
Level 6	IC 180-302982/9	6123109.D
Level 7	IC 180-302982/10	6123110.D
Level 8	IC 180-302982/11	6123111.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	27.4 -8.0	-2.9 -11.9	-5.3	0.7	4.5	-4.6	50 30	30 30	30	30	30	30
Chloromethane	12.4 1.7	-6.6 -0.7	-5.1	-1.2	1.1	-1.7	50 30	30 30	30	30	30	30
Vinyl chloride	11.1 2.6	-3.6 -2.8	-7.1	-2.8	5.6	-3.0	50 30	30 30	30	30	30	30
1,3-Butadiene	28.3 0.3	-6.7 -5.5	-6.8	-5.3	2.9	-7.1	50 30	30 30	30	30	30	30
Bromomethane	20.3 -0.7	0.9 -10.8	-5.5	-0.6	-0.3	-3.3	50 30	30 30	30	30	30	30
Chloroethane	14.1 0.6	-1.0 -8.1	1.4	-3.2	0.5	-4.4	50 30	30 30	30	30	30	30
Dichlorofluoromethane	15.1 0.1	-2.3 -1.4	-4.9	-2.7	0.6	-4.4	50 30	30 30	30	30	30	30
Trichlorofluoromethane	22.3 -2.2	0.3 -6.1	-3.5	-1.1	-0.7	-9.0	50 30	30 30	30	30	30	30
Ethyl ether	5.2 8.0	-4.3 3.8	-4.4	-2.5	-3.0	-2.7	50 30	30 30	30	30	30	30
1,1-Dichloroethene	13.4 -0.4	-2.1 -4.3	-3.2	-2.4	5.1	-6.1	50 30	30 30	30	30	30	30
1,1,2-Trichloro-1,2,2-trifluoroethane	15.5 -2.0	-0.4 -8.2	-4.5	-1.5	5.5	-4.3	50 30	30 30	30	30	30	30
Acetone	-2.9 7.8	6.5 -3.4	-0.6	-2.0	-2.4	-3.0	50 30	30 30	30	30	30	30
Iodomethane	10.8 1.3	-2.4 -0.6	-5.6	-0.8	0.4	-3.2	50 30	30 30	30	30	30	30
Carbon disulfide	-3.6 9.3	-15.2 11.6	-11.1	-3.4	7.7	4.8	50 30	30 30	30	30	30	30
Allyl chloride	2.2 9.3	-8.8 4.8	-6.2	-2.6	-0.2	1.4	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.: 180-101459-1 Analy Batch No.: 302982

SDG No.: \_\_\_\_\_

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/31/2019 12:53 Calibration End Date: 12/31/2019 16:03 Calibration ID: 42450

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				
Methyl acetate	17.7	-7.0	-7.0	-3.7	-4.2	-0.5	50	30	30	30	30	30
	4.6	0.1					30	30				
Methylene Chloride	0.7	-3.5	-1.6	1.1	1.9	-1.4	50	30	30	30	30	30
	5.9	-3.0					30	30				
tert-Butyl alcohol	3.8	-5.5	-3.0	-6.5	3.7	-1.4	50	30	30	30	30	30
	5.1	3.8					30	30				
Acrylonitrile	0.8	-6.0	-2.7	-1.0	-1.8	0.3	50	30	30	30	30	30
	7.5	2.8					30	30				
trans-1,2-Dichloroethene	15.4	-3.3	-4.1	-0.4	0.7	-4.7	50	30	30	30	30	30
	0.3	-3.9					30	30				
Methyl tert-butyl ether	5.0	-5.6	-4.7	-1.2	-1.8	-3.1	50	30	30	30	30	30
	8.3	3.2					30	30				
Hexane	10.1	-3.5	-4.6	-2.6	5.3	-3.5	50	30	30	30	30	30
	3.0	-4.3					30	30				
1,1-Dichloroethane	7.0	-3.4	-3.7	-1.2	2.6	-3.3	50	30	30	30	30	30
	4.6	-2.6					30	30				
2,2-Dichloropropane	23.7	-6.4	-5.0	-8.9	3.6	-2.4	50	30	30	30	30	30
	-2.7	-1.9					30	30				
cis-1,2-Dichloroethene	13.6	-2.3	-4.2	-1.9	0.6	-5.0	50	30	30	30	30	30
	2.6	-3.4					30	30				
2-Butanone (MEK)	-2.0	-3.0	-1.6	-0.7	-2.2	1.3	50	30	30	30	30	30
	5.9	2.3					30	30				
Bromochloromethane	15.6	-4.7	-3.2	0.0	-4.1	-6.3	50	30	30	30	30	30
	5.3	-2.7					30	30				
Tetrahydrofuran	3.1	-11.5	-9.1	-8.2	1.1	3.9	50	30	30	30	30	30
	14.1	6.7					30	30				
Chloroform	0.9	-4.5	-1.5	-1.3	1.6	-1.1	50	30	30	30	30	30
	6.2	-0.3					30	30				
1,1,1-Trichloroethane	12.4	-4.7	-2.8	-2.1	4.4	-5.8	50	30	30	30	30	30
	2.9	-4.4					30	30				
Cyclohexane	5.0	-5.7	-5.6	-0.8	5.4	-1.1	50	30	30	30	30	30
	5.4	-2.6					30	30				
Carbon tetrachloride	1.7	-7.3	-6.2	-1.8	7.6	-0.6	50	30	30	30	30	30
	6.1	0.6					30	30				
1,1-Dichloropropene	8.6	-7.1	-1.4	-0.3	4.5	-2.6	50	30	30	30	30	30
	1.3	-3.0					30	30				
Isobutyl alcohol	11.7	-6.7	-6.2	-8.4	-3.0	-1.3	50	30	30	30	30	30
	8.9	5.0					30	30				
Benzene	8.7	-2.9	-4.1	-1.1	1.3	-2.7	50	30	30	30	30	30
	2.9	-2.0					30	30				
1,2-Dichloroethane	10.6	-5.7	-2.5	-1.6	-3.3	-4.1	50	30	30	30	30	30
	7.5	-1.0					30	30				

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

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-101459-1 Analy Batch No.: 302982

SDG No.: \_\_\_\_\_

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/31/2019 12:53 Calibration End Date: 12/31/2019 16:03 Calibration ID: 42450

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-Heptane	9.4	-1.8	-8.6	-4.2	2.6	-2.1	50	30	30	30	30	30
	6.6	-1.8					30	30				
Trichloroethene	5.4	2.0	-4.0	-2.5	4.1	-4.0	50	30	30	30	30	30
	2.6	-3.6					30	30				
Methylcyclohexane	-1.7	-6.4	-1.6	-2.5	7.2	-0.9	50	30	30	30	30	30
	6.9	-1.2					30	30				
1,2-Dichloropropane	-2.7	-0.5	-2.5	-2.2	1.6	-2.3	50	30	30	30	30	30
	6.5	2.2					30	30				
Dibromomethane	19.4	-1.7	-6.2	-2.6	-5.5	-5.1	50	30	30	30	30	30
	4.8	-3.2					30	30				
1,4-Dioxane	25.4	3.5	-5.4	-0.3	-9.4	-2.8	50	30	30	30	30	30
	-10.3	-0.7					30	30				
Bromodichloromethane	-8.9	-14.3	-5.3	-1.4	1.8	2.0	50	30	30	30	30	30
	15.7	10.5					30	30				
cis-1,3-Dichloropropene	-15.9	-16.3	-10.8	-4.8	2.7	8.3	50	30	30	30	30	30
	22.1	14.7					30	30				
4-Methyl-2-pentanone (MIBK)	-18.8	-13.3	-4.6	-2.2	1.9	8.7	50	30	30	30	30	30
	16.6	11.9					30	30				
Toluene	4.2	-3.1	-2.7	-3.4	4.2	-0.9	50	30	30	30	30	30
	3.0	-1.3					30	30				
trans-1,3-Dichloropropene	-13.0	-18.4	-6.7	-8.0	0.1	10.5	50	30	30	30	30	30
	19.3	16.1					30	30				
Ethyl methacrylate	-14.9	-21.4	-7.7	-4.2	4.8	9.1	50	30	30	30	30	30
	20.7	13.7					30	30				
1,1,2-Trichloroethane	11.2	-0.7	-1.2	-1.6	-3.4	-4.6	50	30	30	30	30	30
	2.9	-2.6					30	30				
Tetrachloroethene	10.4	1.3	0.7	-4.3	4.9	-4.3	50	30	30	30	30	30
	-0.9	-7.7					30	30				
1,3-Dichloropropane	1.6	1.2	-0.5	-4.1	-0.7	-2.2	50	30	30	30	30	30
	4.0	0.6					30	30				
2-Hexanone	-23.0	-5.7	-4.2	-3.6	3.9	6.9	50	30	30	30	30	30
	15.0	10.7					30	30				
Dibromochloromethane	-22.0	-14.0	-5.9	-3.9	2.9	7.6	50	30	30	30	30	30
	20.0	15.2					30	30				
1,2-Dibromoethane (EDB)	7.0	-7.9	-1.9	-3.5	-3.4	-0.4	50	30	30	30	30	30
	7.8	2.3					30	30				
Chlorobenzene	7.1	-3.5	-2.3	-1.9	0.9	-1.7	50	30	30	30	30	30
	3.7	-2.3					30	30				
1,1,1,2-Tetrachloroethane	-3.4	-8.5	-3.2	-4.0	0.5	2.6	50	30	30	30	30	30
	10.9	5.1					30	30				
Ethylbenzene	-1.9	-1.6	3.3	-1.3	3.5	-1.9	50	30	30	30	30	30
	2.3	-2.4					30	30				

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

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-101459-1 Analy Batch No.: 302982

SDG No.: \_\_\_\_\_

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/31/2019 12:53 Calibration End Date: 12/31/2019 16:03 Calibration ID: 42450

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				
m-Xylene & p-Xylene	-12.4 7.1	-5.4 1.7	1.1	0.5	7.6	-0.3	50 30	30 30	30	30	30	30
o-Xylene	-7.4 7.4	-3.8 0.3	1.6	-1.8	4.6	-1.1	50 30	30 30	30	30	30	30
Styrene	-10.8 12.0	-9.8 5.7	-2.4	-1.4	4.3	2.3	50 30	30 30	30	30	30	30
Bromoform	-14.5 ++++	-14.5 ++++	-7.4	2.3	12.3	21.8	50	30	30	30	30	30
Isopropylbenzene	-6.8 7.6	-7.2 1.4	-0.5	-3.1	7.4	1.2	50 30	30 30	30	30	30	30
1,1,2,2-Tetrachloroethane	-0.8 6.9	-1.9 1.1	0.7	-7.9	2.9	-1.1	50 30	30 30	30	30	30	30
Bromobenzene	14.3 3.0	-2.8 -0.8	-2.1	-6.5	-0.3	-4.8	50 30	30 30	30	30	30	30
trans-1,4-Dichloro-2-butene	-5.7 11.9	-9.6 12.3	-7.7	-4.0	-1.8	4.6	50 30	30 30	30	30	30	30
1,2,3-Trichloropropane	0.4 5.8	-1.1 2.1	0.8	-3.3	-4.3	-0.4	50 30	30 30	30	30	30	30
N-Propylbenzene	3.0 4.0	-5.0 0.7	-3.1	-5.0	6.9	-1.6	50 30	30 30	30	30	30	30
2-Chlorotoluene	3.9 3.1	-2.5 0.5	-1.4	-4.9	4.4	-3.2	50 30	30 30	30	30	30	30
1,3,5-Trimethylbenzene	-8.4 8.1	-8.0 5.4	-1.2	-4.5	8.2	0.4	50 30	30 30	30	30	30	30
4-Chlorotoluene	-2.9 4.1	-3.5 0.4	2.0	-0.2	0.9	-0.8	50 30	30 30	30	30	30	30
tert-Butylbenzene	-0.6 7.9	-10.6 3.4	-2.1	-3.2	6.0	-0.7	50 30	30 30	30	30	30	30
1,2,4-Trimethylbenzene	-8.7 8.3	-9.8 5.4	-0.5	-3.5	7.2	1.5	50 30	30 30	30	30	30	30
sec-Butylbenzene	1.0 7.1	-9.4 3.4	-3.2	-4.6	6.0	-0.3	50 30	30 30	30	30	30	30
1,3-Dichlorobenzene	8.2 3.2	0.0 -1.1	-2.7	-5.2	2.0	-4.4	50 30	30 30	30	30	30	30
4-Isopropyltoluene	-5.3 8.8	-10.3 4.3	-2.7	-3.3	8.1	0.3	50 30	30 30	30	30	30	30
1,4-Dichlorobenzene	14.0 2.5	-3.9 0.4	-1.6	-6.2	-1.8	-3.4	50 30	30 30	30	30	30	30
n-Butylbenzene	1.7 8.0	-9.4 4.0	-5.1	-7.0	7.3	0.4	50 30	30 30	30	30	30	30
1,2-Dichlorobenzene	7.1 4.3	-2.8 0.6	-2.9	-3.5	0.8	-3.7	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.: 180-101459-1 Analy Batch No.: 302982

SDG No.: \_\_\_\_\_

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/31/2019 12:53 Calibration End Date: 12/31/2019 16:03 Calibration ID: 42450

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				
1,2-Dibromo-3-Chloropropane	28.7	-19.2	-10.4	-10.2	0.1	-3.1	50	30	30	30	30	30
	7.5	6.7					30	30				
1,2,4-Trichlorobenzene	12.2	-10.3	-5.4	-8.8	0.6	-1.7	50	30	30	30	30	30
	6.6	6.9					30	30				
Hexachlorobutadiene	26.7	-12.5	-3.5	-5.4	0.9	-9.5	50	30	30	30	30	30
	1.2	2.1					30	30				
Naphthalene	0.6	-22.9	-11.1	-7.9	3.0	3.8	50	30	30	30	30	30
	16.7	17.9					30	30				
1,2,3-Trichlorobenzene	14.6	-13.3	-8.8	-6.8	0.6	-3.1	50	30	30	30	30	30
	6.8	10.0					30	30				
Dibromofluoromethane (Surr)	15.1	-1.1	0.5	-3.1	-1.8	-3.8	50	30	30	30	30	30
	0.0	-5.8					30	30				
1,2-Dichloroethane-d4 (Surr)	19.4	-0.2	-1.4	0.9	-4.2	-7.6	50	30	30	30	30	30
	-0.3	-6.5					30	30				
Toluene-d8 (Surr)	3.0	-4.8	4.4	-1.5	-0.9	1.0	50	30	30	30	30	30
	2.0	-3.1					30	30				
4-Bromofluorobenzene (Surr)	4.8	0.6	3.8	-3.5	-2.3	-1.8	50	30	30	30	30	30
	1.8	-3.6					30	30				

Eurofins TestAmerica, Pittsburgh  
Target Compound Quantitation Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123104.D  
 Lims ID: IC VSTD1  
 Client ID:  
 Sample Type: IC Calib Level: 1  
 Inject. Date: 31-Dec-2019 12:53:30 ALS Bottle#: 4 Worklist Smp#: 4  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 180-0030232-004  
 Misc. Info.: IC VSTD1  
 Operator ID: 433269 Instrument ID: CHHP6  
 Sublist: chrom-MSVOA\_LL\_CHHP6\*sub27  
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\MSVOA\_LL\_CHHP6.m  
 Limit Group: VOA 8260C\_D ICAL  
 Last Update: 31-Dec-2019 19:23:42 Calib Date: 31-Dec-2019 16:03:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123111.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0338

First Level Reviewer: bowieh

Date: 31-Dec-2019 13:49:12

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.378	4.378	0.000	90	212293	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.352	7.353	-0.001	99	736234	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.461	10.461	0.000	83	182873	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.809	12.809	0.000	92	279987	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.628	6.629	-0.001	91	19101	5.00	5.76	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	7.006	6.994	0.012	51	20618	5.00	5.97	
\$ 7 Toluene-d8 (Surr)	98	9.007	9.007	0.000	92	69759	5.00	5.15	
\$ 8 4-Bromofluorobenzene (Surr	95	11.641	11.648	-0.007	0	25356	5.00	5.24	
11 Dichlorodifluoromethane	85	1.658	1.646	0.012	96	32269	5.00	6.37	a
12 Chloromethane	50	1.859	1.865	-0.006	67	31536	5.00	5.62	
13 Vinyl chloride	62	1.981	1.975	0.006	67	26810	5.00	5.55	
14 Butadiene	39	1.981	1.993	-0.012	97	31676	5.00	6.42	
15 Bromomethane	94	2.315	2.315	0.000	50	18531	5.00	6.02	
16 Chloroethane	64	2.455	2.449	0.006	76	20066	5.00	5.71	
17 Dichlorofluoromethane	67	2.729	2.729	0.000	96	41415	5.00	5.75	
18 Trichlorofluoromethane	101	2.759	2.766	-0.007	90	40950	5.00	6.11	a
20 Ethyl ether	59	3.112	3.125	-0.013	93	18433	5.00	5.26	a
22 1,1-Dichloroethene	96	3.416	3.429	-0.013	90	19997	5.00	5.67	
23 1,1,2-Trichloro-1,2,2-trif	101	3.477	3.490	-0.013	65	22475	5.00	5.77	
24 Acetone	43	3.532	3.526	0.006	97	43621	25.0	24.3	
25 Iodomethane	142	3.648	3.623	0.025	82	37321	5.00	5.54	
26 Carbon disulfide	76	3.708	3.709	-0.001	92	38209	5.00	4.82	
29 3-Chloro-1-propene	76	4.019	4.007	0.012	91	10235	5.00	5.11	
30 Methyl acetate	43	4.037	4.037	0.000	24	33038	10.0	11.8	M
31 Methylene Chloride	84	4.226	4.232	-0.006	97	44789	5.00	5.03	
32 2-Methyl-2-propanol	59	4.524	4.499	0.025	76	12075	50.0	51.9	
33 Acrylonitrile	53	4.609	4.615	-0.006	96	72926	50.0	50.4	a
34 trans-1,2-Dichloroethene	96	4.633	4.639	-0.006	95	23123	5.00	5.77	
35 Methyl tert-butyl ether	73	4.657	4.664	-0.007	95	40754	5.00	5.25	
36 Hexane	57	5.053	5.059	-0.006	94	33398	5.00	5.50	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
37 1,1-Dichloroethane	63	5.278	5.272	0.006	95	34592	5.00	5.35	
42 2,2-Dichloropropane	97	5.990	6.014	-0.024	12	5129	5.00	6.18	M
43 cis-1,2-Dichloroethene	96	6.026	6.020	0.006	63	24501	5.00	5.68	
44 2-Butanone (MEK)	43	6.044	6.045	-0.001	99	55404	25.0	24.5	
48 Chlorobromomethane	128	6.294	6.300	-0.006	91	12832	5.00	5.78	
49 Tetrahydrofuran	42	6.343	6.337	0.006	0	15320	10.0	10.3	
50 Chloroform	83	6.446	6.446	0.000	93	51387	5.00	5.05	
51 1,1,1-Trichloroethane	97	6.604	6.610	-0.006	97	27912	5.00	5.62	M
52 Cyclohexane	56	6.671	6.671	0.000	94	39924	5.00	5.25	
53 Carbon tetrachloride	117	6.768	6.775	-0.007	91	21236	5.00	5.08	
54 1,1-Dichloropropene	75	6.793	6.793	0.000	90	26832	5.00	5.43	
55 Isobutyl alcohol	41	7.000	7.006	-0.006	40	14370	125.0	139.6	M
56 Benzene	78	7.012	7.012	0.000	96	86476	5.00	5.43	
57 1,2-Dichloroethane	62	7.079	7.091	-0.012	94	24231	5.00	5.53	
59 n-Heptane	43	7.371	7.371	0.000	41	26165	5.00	5.47	
61 Trichloroethene	130	7.742	7.742	0.000	93	24864	5.00	5.27	
63 Methylcyclohexane	83	7.979	7.979	0.000	92	31613	5.00	4.92	
64 1,2-Dichloropropane	63	8.009	8.016	-0.007	90	18124	5.00	4.87	
65 1,4-Dioxane	88	8.107	8.107	0.000	40	5084	100.0	125.4	
67 Dibromomethane	93	8.095	8.107	-0.012	94	12030	5.00	5.97	a
68 Dichlorobromomethane	83	8.295	8.296	-0.001	94	15852	5.00	4.55	
71 cis-1,3-Dichloropropene	75	8.739	8.746	-0.007	90	18929	5.00	4.20	
72 4-Methyl-2-pentanone (MIBK)	43	8.904	8.904	0.000	97	65784	25.0	20.3	
73 Toluene	91	9.074	9.074	0.000	98	89782	5.00	5.21	
74 trans-1,3-Dichloropropene	75	9.323	9.324	-0.001	93	16384	5.00	4.35	
75 Ethyl methacrylate	69	9.390	9.384	0.006	92	15734	5.00	4.25	
76 1,1,2-Trichloroethane	97	9.512	9.518	-0.006	84	17436	5.00	5.56	
77 Tetrachloroethene	164	9.585	9.585	0.000	95	23496	5.00	5.52	
78 1,3-Dichloropropane	76	9.670	9.676	-0.006	94	26423	5.00	5.08	
79 2-Hexanone	43	9.737	9.737	0.000	98	53741	25.0	19.2	
81 Chlorodibromomethane	129	9.883	9.889	-0.006	87	10334	5.00	3.90	
82 Ethylene Dibromide	107	9.993	9.999	-0.006	99	16562	5.00	5.35	
84 Chlorobenzene	112	10.491	10.492	-0.001	96	61525	5.00	5.36	
86 1,1,1,2-Tetrachloroethane	131	10.589	10.583	0.006	40	16297	5.00	4.83	
87 Ethylbenzene	106	10.589	10.595	-0.006	98	32248	5.00	4.91	
88 m-Xylene & p-Xylene	106	10.723	10.717	0.006	99	34528	5.00	4.38	
89 o-Xylene	106	11.100	11.106	-0.006	95	34732	5.00	4.63	
90 Styrene	104	11.118	11.124	-0.006	94	52999	5.00	4.46	
91 Bromoform	173	11.307	11.307	0.000	77	6275	5.00	4.27	
93 Isopropylbenzene	105	11.471	11.471	0.000	93	87562	5.00	4.66	
96 1,1,2,2-Tetrachloroethane	83	11.781	11.781	0.000	73	16578	5.00	4.96	
95 Bromobenzene	156	11.793	11.787	0.006	88	26378	5.00	5.71	
97 trans-1,4-Dichloro-2-buten	53	11.818	11.824	-0.006	58	4511	5.00	4.71	
98 1,2,3-Trichloropropane	110	11.842	11.842	0.000	68	9741	5.00	5.02	
99 N-Propylbenzene	120	11.885	11.891	-0.006	97	27659	5.00	5.15	
100 2-Chlorotoluene	126	11.976	11.976	0.000	99	22733	5.00	5.19	
102 1,3,5-Trimethylbenzene	105	12.073	12.073	0.000	96	61553	5.00	4.58	
103 4-Chlorotoluene	126	12.098	12.104	-0.006	97	22042	5.00	4.85	
104 tert-Butylbenzene	119	12.383	12.390	-0.007	91	59742	5.00	4.97	
106 1,2,4-Trimethylbenzene	105	12.444	12.444	0.000	95	60934	5.00	4.57	
108 sec-Butylbenzene	105	12.609	12.609	0.000	92	81147	5.00	5.05	
109 1,3-Dichlorobenzene	146	12.730	12.730	0.000	97	46518	5.00	5.41	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
110 4-Isopropyltoluene	119	12.767	12.767	0.000	96	66527	5.00	4.73	
111 1,4-Dichlorobenzene	146	12.834	12.834	0.000	95	49806	5.00	5.70	
116 n-Butylbenzene	91	13.174	13.174	0.000	97	51846	5.00	5.09	
117 1,2-Dichlorobenzene	146	13.193	13.187	0.006	96	43147	5.00	5.35	
118 1,2-Dibromo-3-Chloropropan	75	13.983	13.990	-0.007	26	2609	5.00	6.43	a
122 1,2,4-Trichlorobenzene	180	14.805	14.805	0.000	93	21626	5.00	5.61	
123 Hexachlorobutadiene	225	14.945	14.945	0.000	91	11680	5.00	6.33	
124 Naphthalene	128	15.066	15.073	-0.007	95	44834	5.00	5.03	
125 1,2,3-Trichlorobenzene	180	15.297	15.298	-0.001	95	18474	5.00	5.73	
S 131 Xylenes, Total	106				0		10.0	9.01	
S 130 1,2-Dichloroethene, Total	96				0		10.0	11.4	
S 154 Total BTEX	1				0			24.6	
S 132 1,3-Dichloropropene, Total	1				0		10.0	8.55	

### QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

### Reagents:

VOA8260SURR\_00102

Amount Added: 0.20

Units: uL

VOA8260VOAPRI\_00385

Amount Added: 0.20

Units: uL

voaWKetmix1st\_00021

Amount Added: 0.80

Units: uL

VOA8260INT\_00102

Amount Added: 2.00

Units: uL

Run Reagent



Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123104.D

Injection Date: 31-Dec-2019 12:53:30

Instrument ID: CHHP6

Operator ID: 433269

Lims ID: IC VSTD1

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

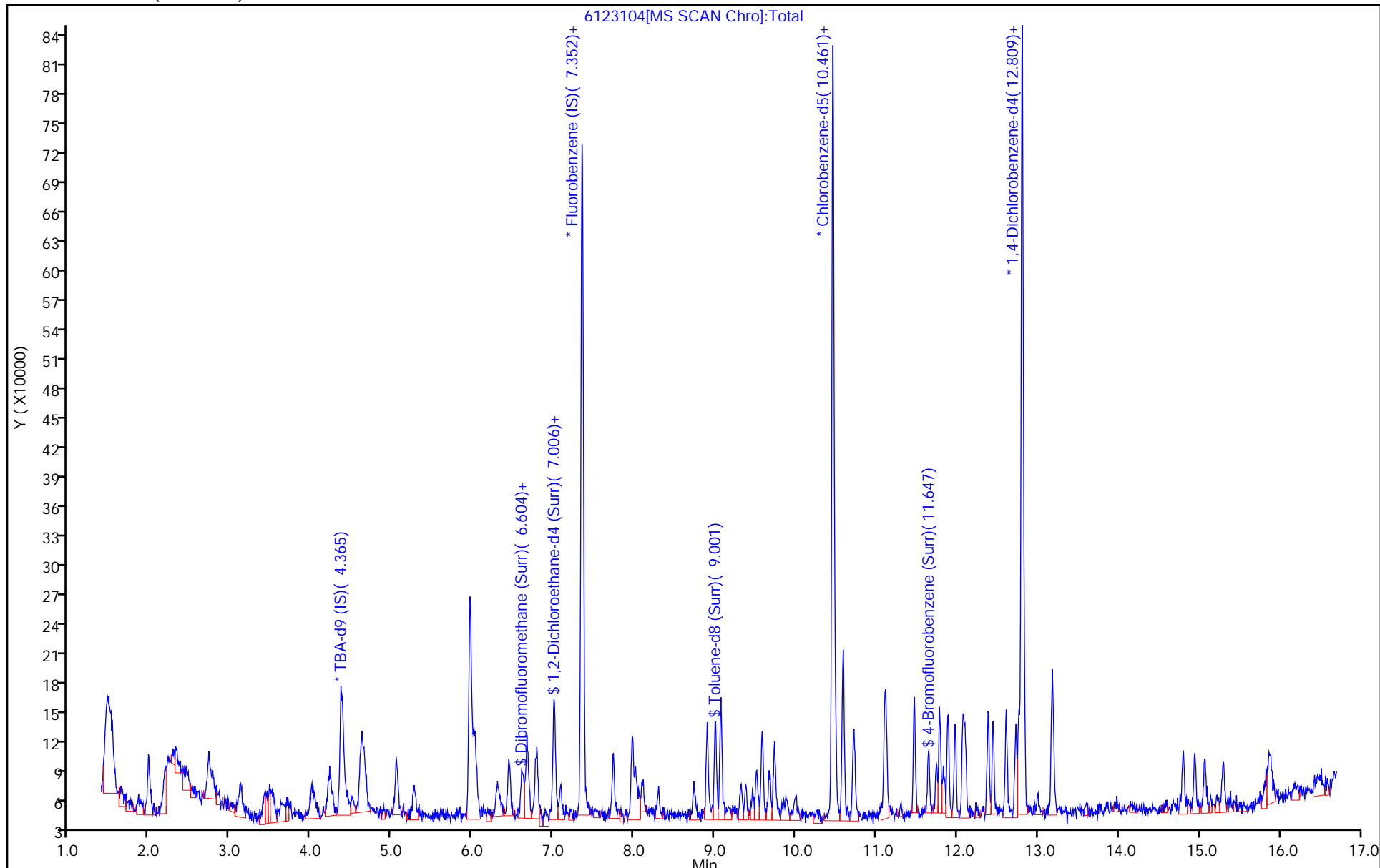
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: MSVOA\_LL\_CHHP6

Limit Group: VOA 8260C\_D ICAL

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Pittsburgh

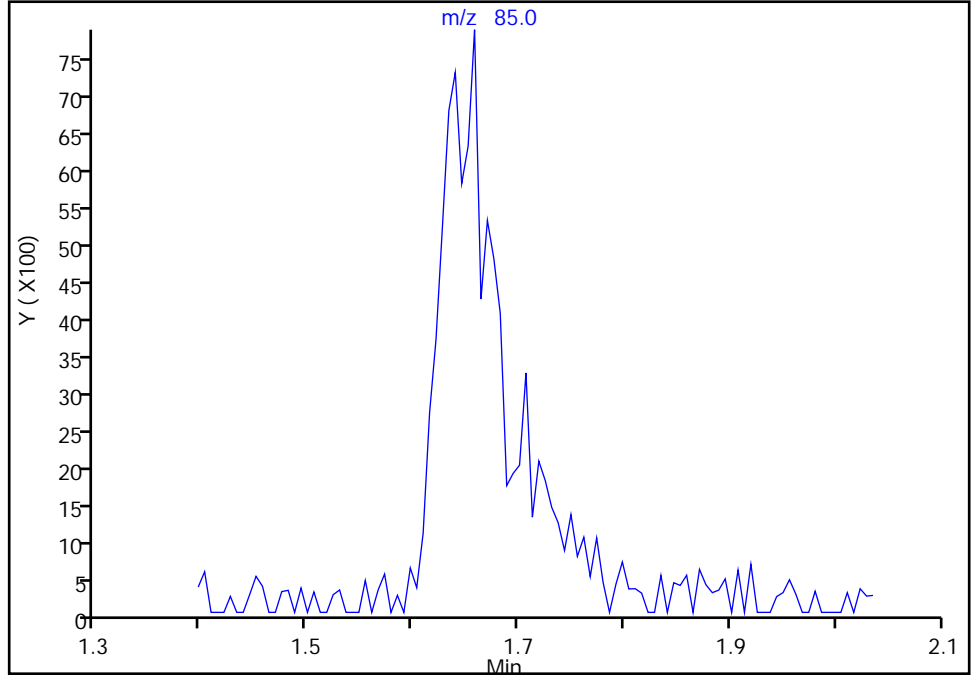
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Injection Date: 31-Dec-2019 12:53:30 Instrument ID: CHHP6  
Lims ID: IC VSTD1  
Client ID:  
Operator ID: 433269 ALS Bottle#: 4 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
Column: DB-624 (0.18 mm) Detector: MS SCAN

11 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

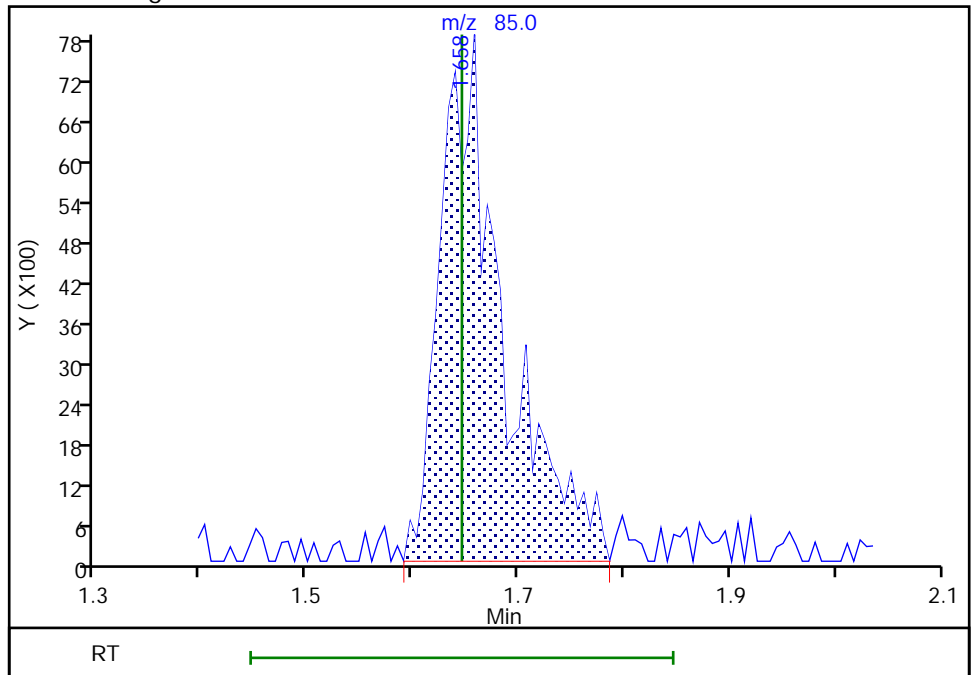
Not Detected  
Expected RT: 1.65

Processing Integration Results



Manual Integration Results

RT: 1.66  
Area: 32269  
Amount: 6.370833  
Amount Units: ng



Eurofins TestAmerica, Pittsburgh

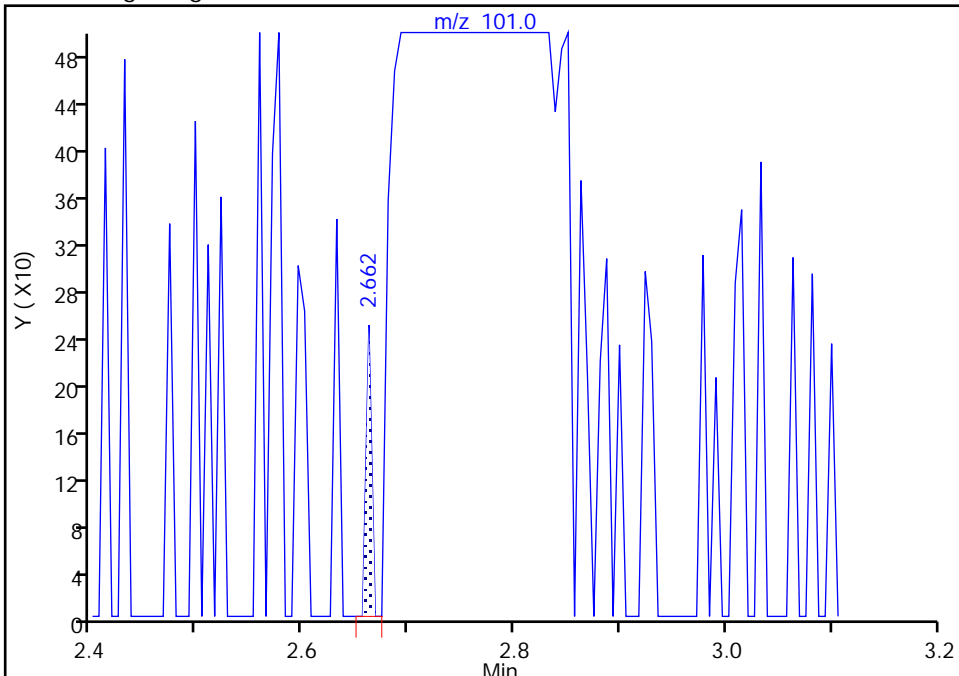
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Lims ID: IC VSTD1  
Client ID:  
Operator ID: 433269 ALS Bottle#: 4 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
Column: DB-624 (0.18 mm) Detector: MS SCAN

18 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

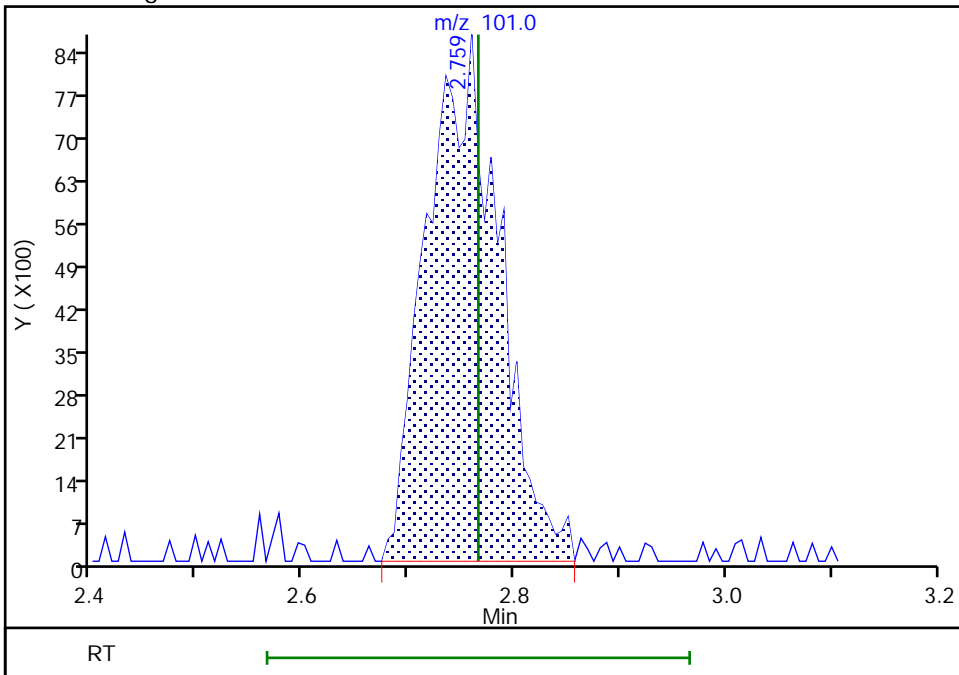
RT: 2.66  
Area: 91  
Amount: 0.027022  
Amount Units: ng

Processing Integration Results



RT: 2.76  
Area: 40950  
Amount: 6.113583  
Amount Units: ng

Manual Integration Results



Eurofins TestAmerica, Pittsburgh

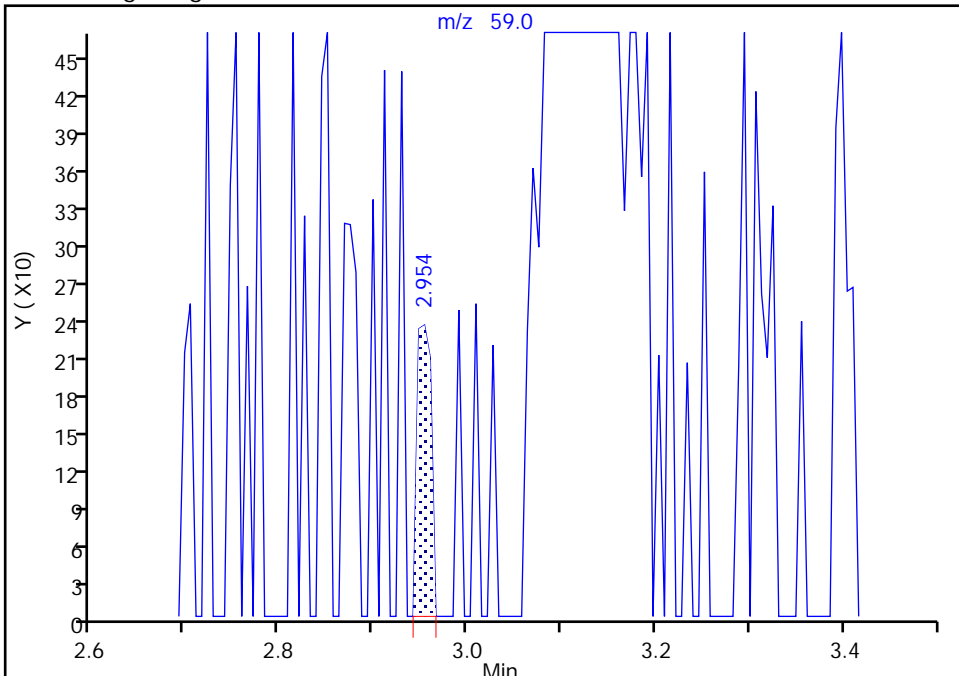
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Injection Date: 31-Dec-2019 12:53:30 Instrument ID: CHHP6  
Lims ID: IC VSTD1  
Client ID:  
Operator ID: 433269 ALS Bottle#: 4 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
Column: DB-624 (0.18 mm) Detector: MS SCAN

20 Ethyl ether, CAS: 60-29-7

Signal: 1

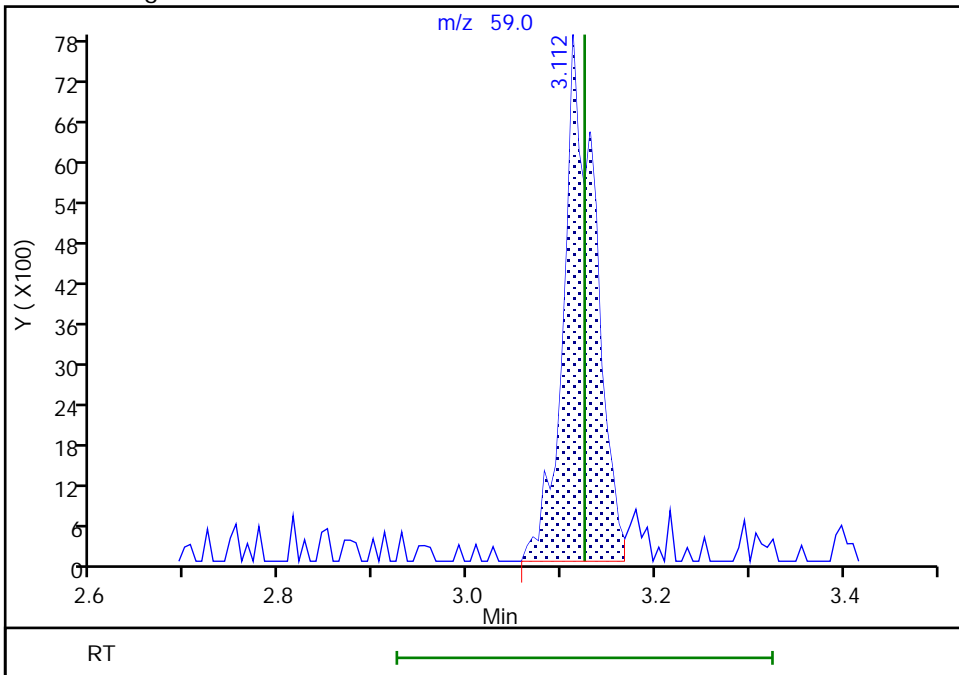
RT: 2.95  
Area: 243  
Amount: 0.142861  
Amount Units: ng

Processing Integration Results



RT: 3.11  
Area: 18433  
Amount: 5.258485  
Amount Units: ng

Manual Integration Results



Eurofins TestAmerica, Pittsburgh

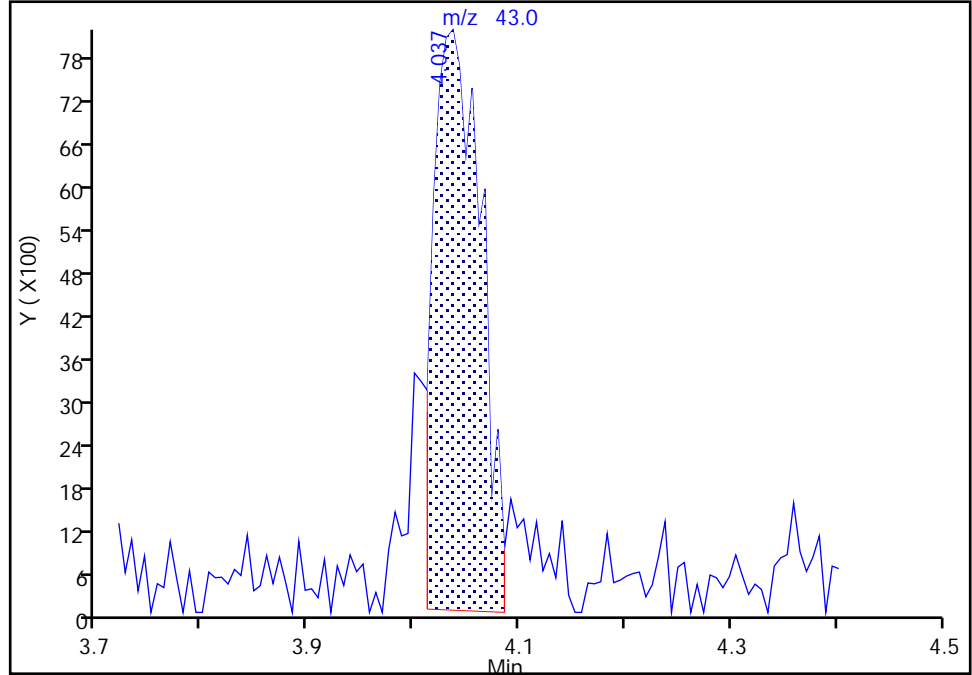
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Injection Date: 31-Dec-2019 12:53:30 Instrument ID: CHHP6  
Lims ID: IC VSTD1  
Client ID:  
Operator ID: 433269 ALS Bottle#: 4 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
Column: DB-624 (0.18 mm) Detector: MS SCAN

30 Methyl acetate, CAS: 79-20-9

Signal: 1

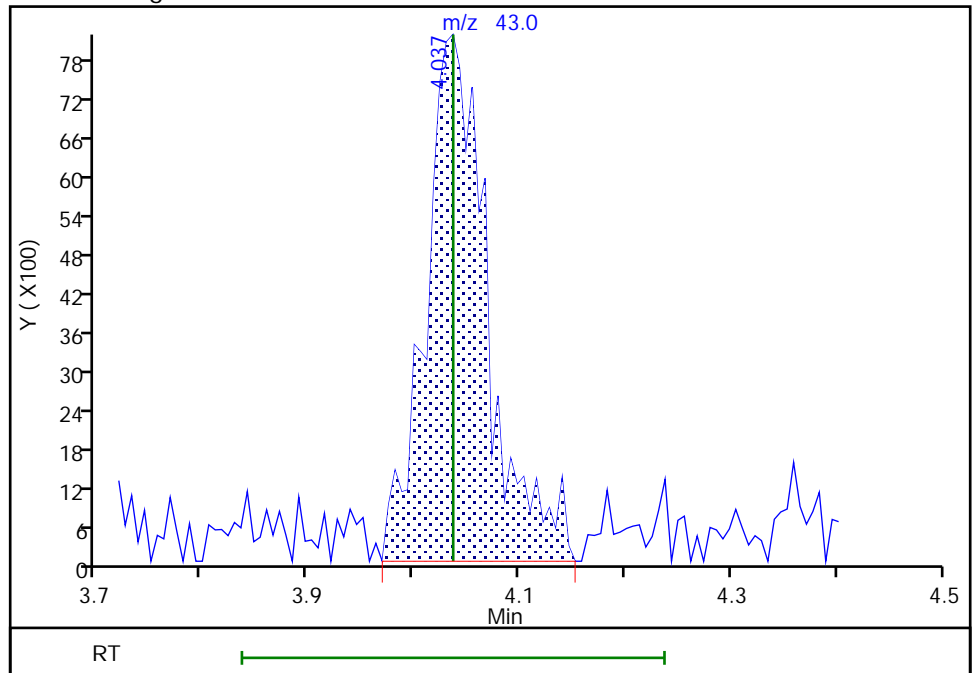
RT: 4.04  
Area: 25442  
Amount: 9.871886  
Amount Units: ng

Processing Integration Results



RT: 4.04  
Area: 33038  
Amount: 11.770178  
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 31-Dec-2019 13:48:07  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography  
Page 729 of 880

Eurofins TestAmerica, Pittsburgh

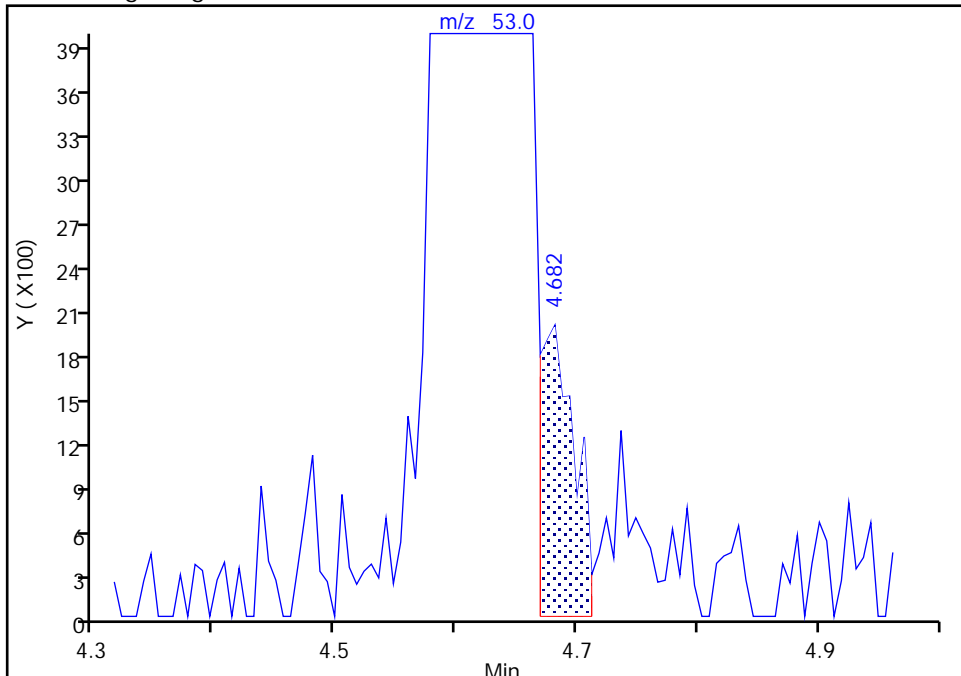
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Injection Date: 31-Dec-2019 12:53:30 Instrument ID: CHHP6  
Lims ID: IC VSTD1  
Client ID:  
Operator ID: 433269 ALS Bottle#: 4 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
Column: DB-624 (0.18 mm) Detector: MS SCAN

33 Acrylonitrile, CAS: 107-13-1

Signal: 1

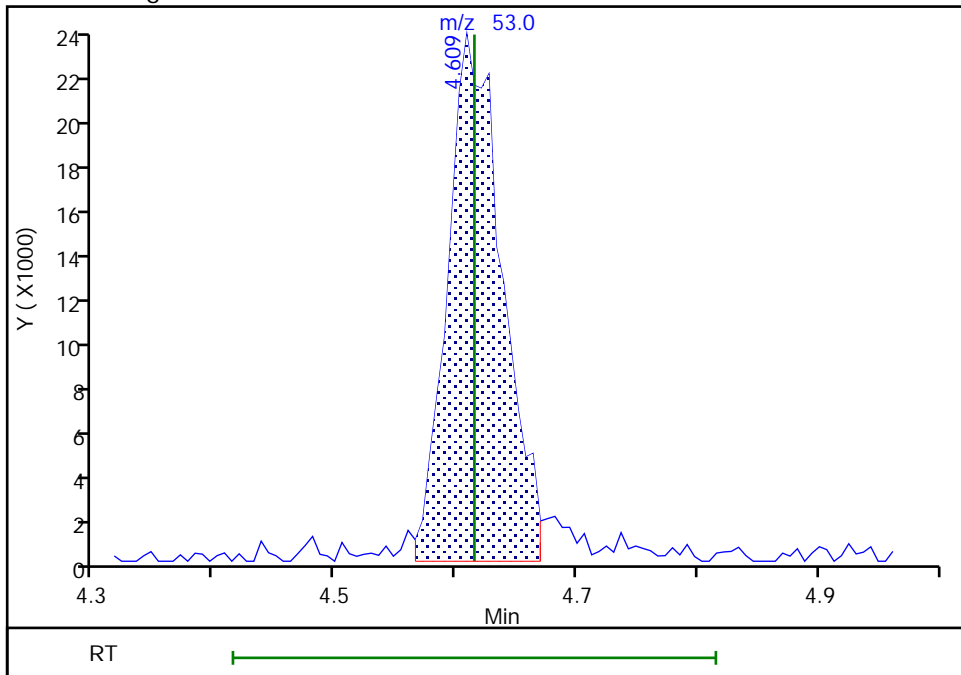
RT: 4.68  
Area: 3961  
Amount: 5.508665  
Amount Units: ng

Processing Integration Results



RT: 4.61  
Area: 72926  
Amount: 50.422510  
Amount Units: ng

Manual Integration Results



Eurofins TestAmerica, Pittsburgh

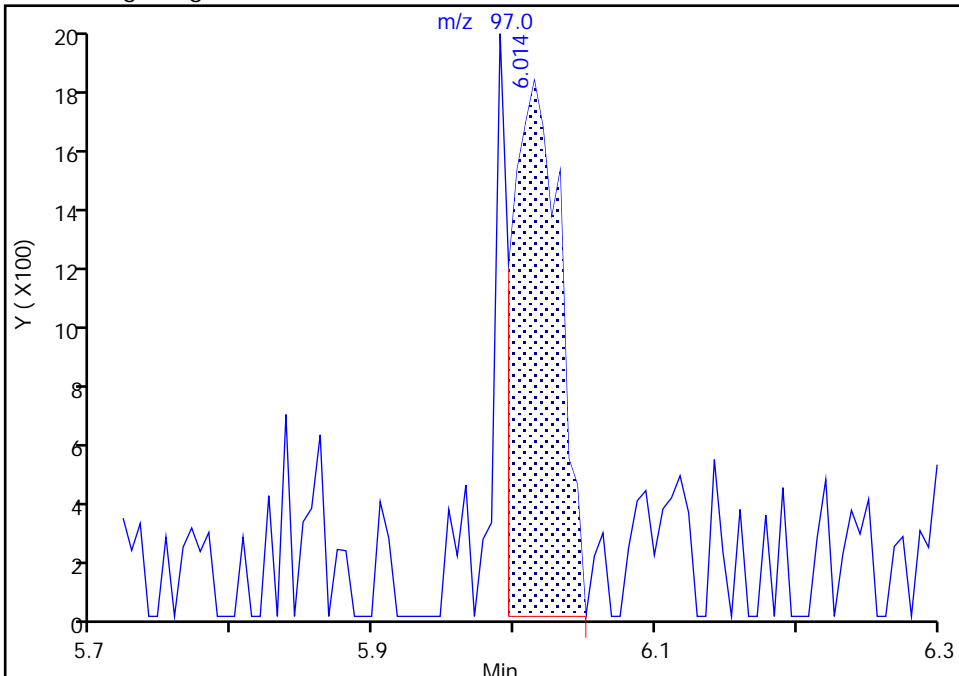
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Injection Date: 31-Dec-2019 12:53:30 Instrument ID: CHHP6  
Lims ID: IC VSTD1  
Client ID:  
Operator ID: 433269 ALS Bottle#: 4 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
Column: DB-624 (0.18 mm) Detector: MS SCAN

42 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

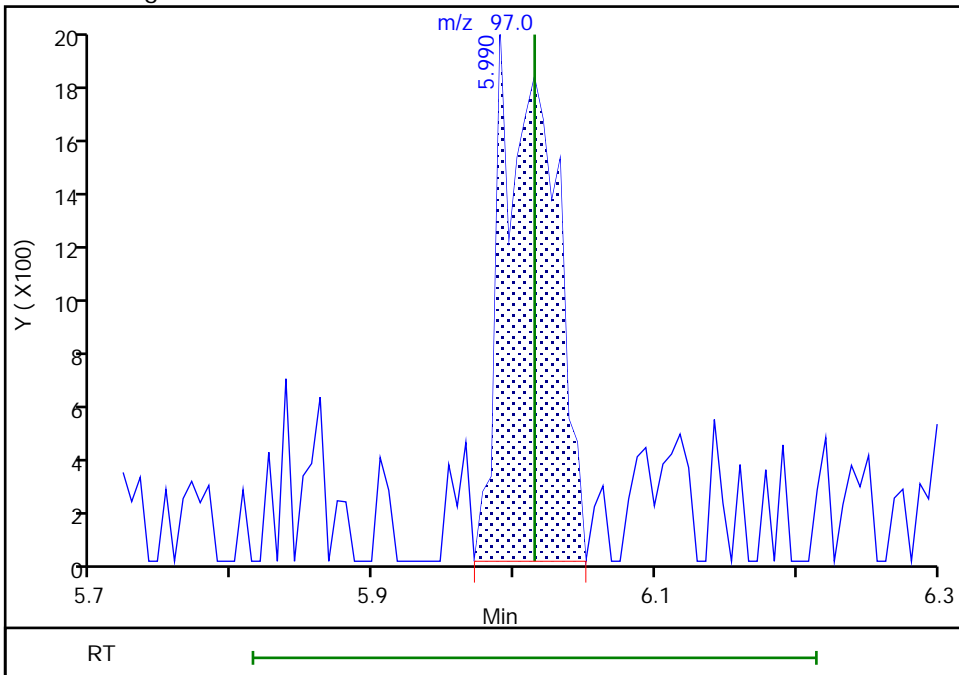
RT: 6.01  
Area: 4208  
Amount: 5.200800  
Amount Units: ng

Processing Integration Results



RT: 5.99  
Area: 5129  
Amount: 6.183845  
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 31-Dec-2019 13:48:23  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins TestAmerica, Pittsburgh

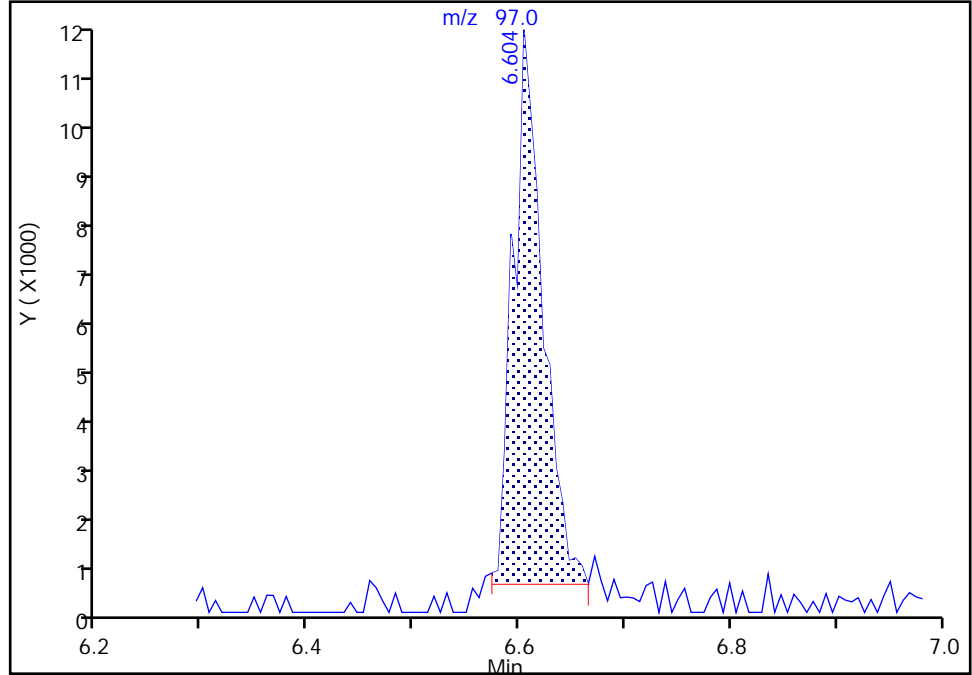
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Lims ID: IC VSTD1  
Client ID:  
Operator ID: 433269 ALS Bottle#: 4 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
Column: DB-624 (0.18 mm) Detector: MS SCAN

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

Signal: 1

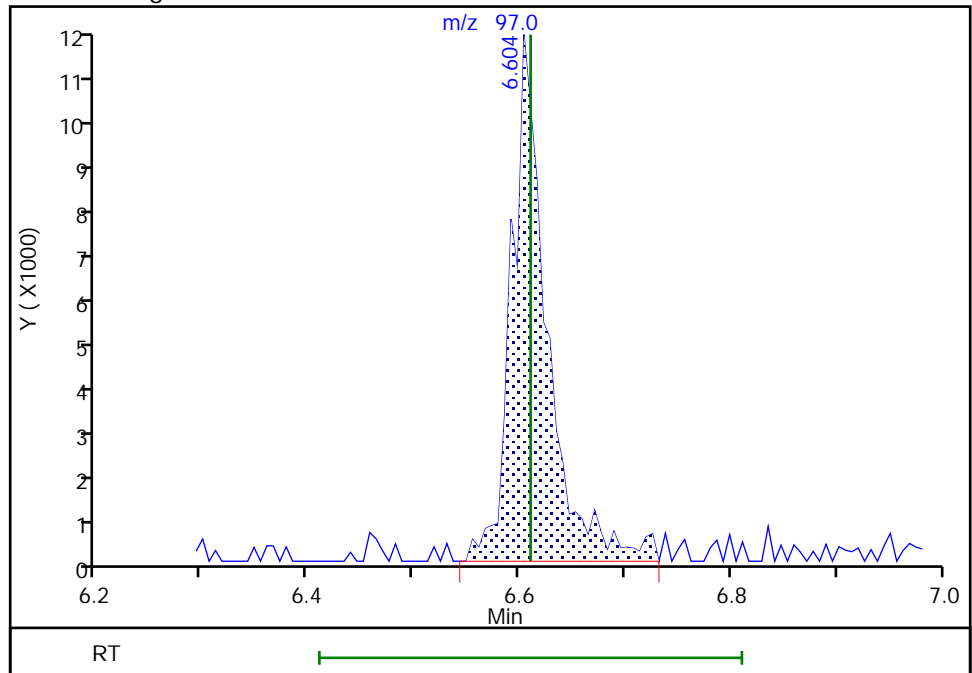
RT: 6.60  
Area: 22136  
Amount: 4.832551  
Amount Units: ng

Processing Integration Results



RT: 6.60  
Area: 27912  
Amount: 5.619197  
Amount Units: ng

Manual Integration Results





Eurofins TestAmerica, Pittsburgh

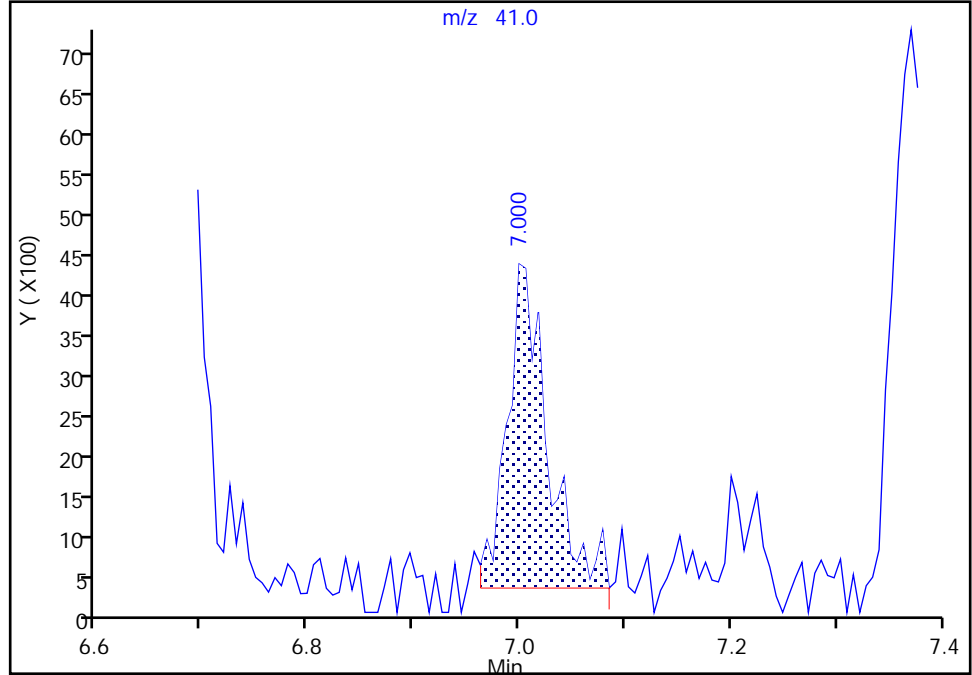
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Lims ID: IC VSTD1  
Client ID:  
Operator ID: 433269 ALS Bottle#: 4 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
Column: DB-624 (0.18 mm) Detector: MS SCAN

55 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

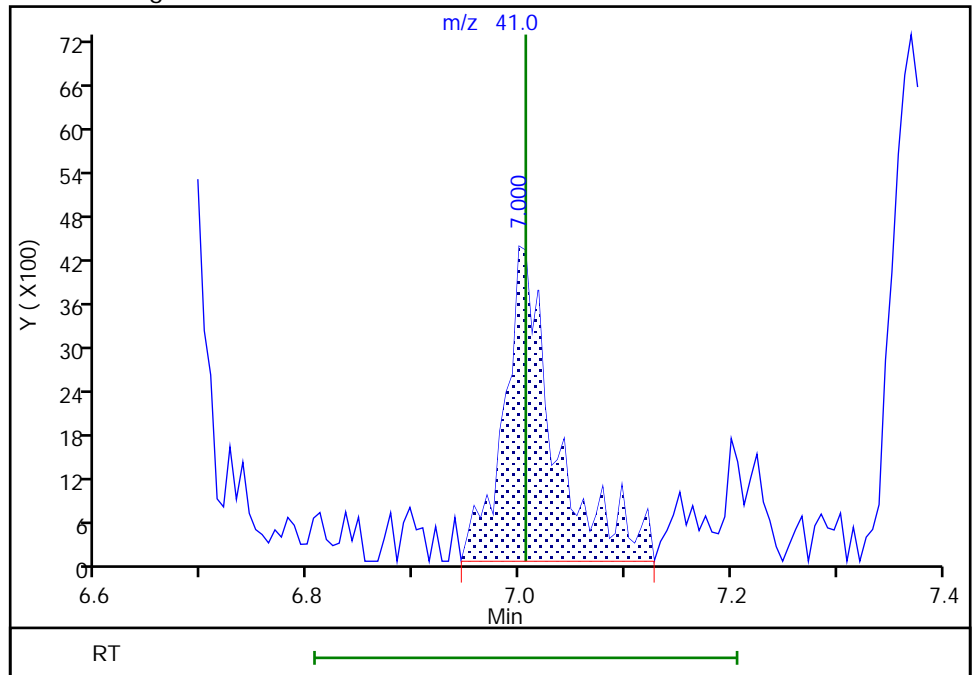
RT: 7.00  
Area: 10519  
Amount: 116.7656  
Amount Units: ng

Processing Integration Results



RT: 7.00  
Area: 14370  
Amount: 139.6143  
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 31-Dec-2019 13:48:41  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography  
Page 733 of 880

Eurofins TestAmerica, Pittsburgh

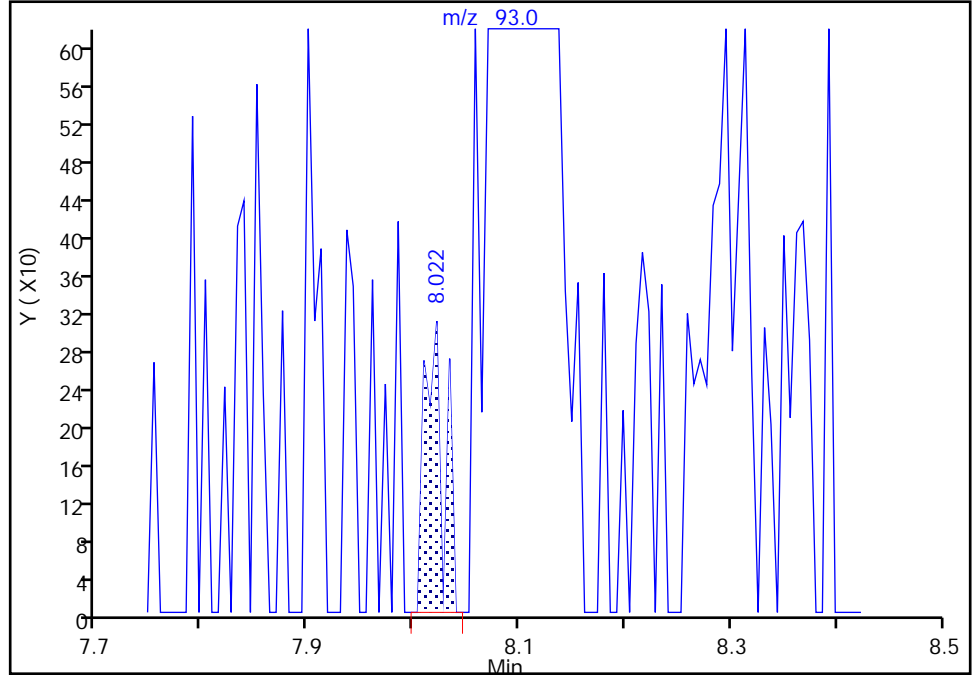
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Injection Date: 31-Dec-2019 12:53:30 Instrument ID: CHHP6  
Lims ID: IC VSTD1  
Client ID:  
Operator ID: 433269 ALS Bottle#: 4 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
Column: DB-624 (0.18 mm) Detector: MS SCAN

67 Dibromomethane, CAS: 74-95-3

Signal: 1

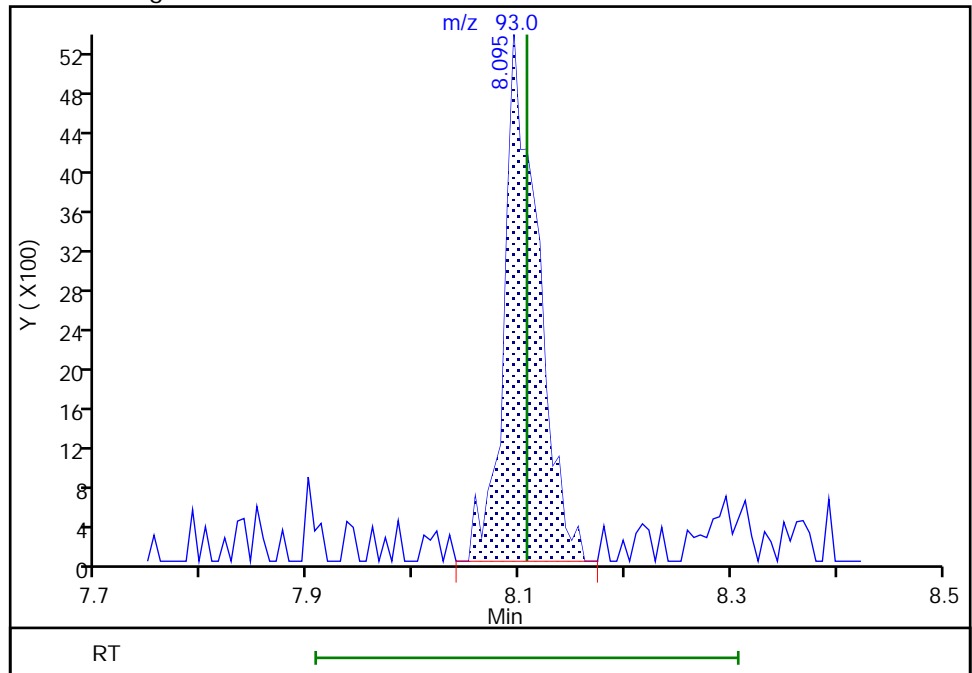
RT: 8.02  
Area: 388  
Amount: 0.376742  
Amount Units: ng

Processing Integration Results



RT: 8.09  
Area: 12030  
Amount: 5.968377  
Amount Units: ng

Manual Integration Results



Eurofins TestAmerica, Pittsburgh

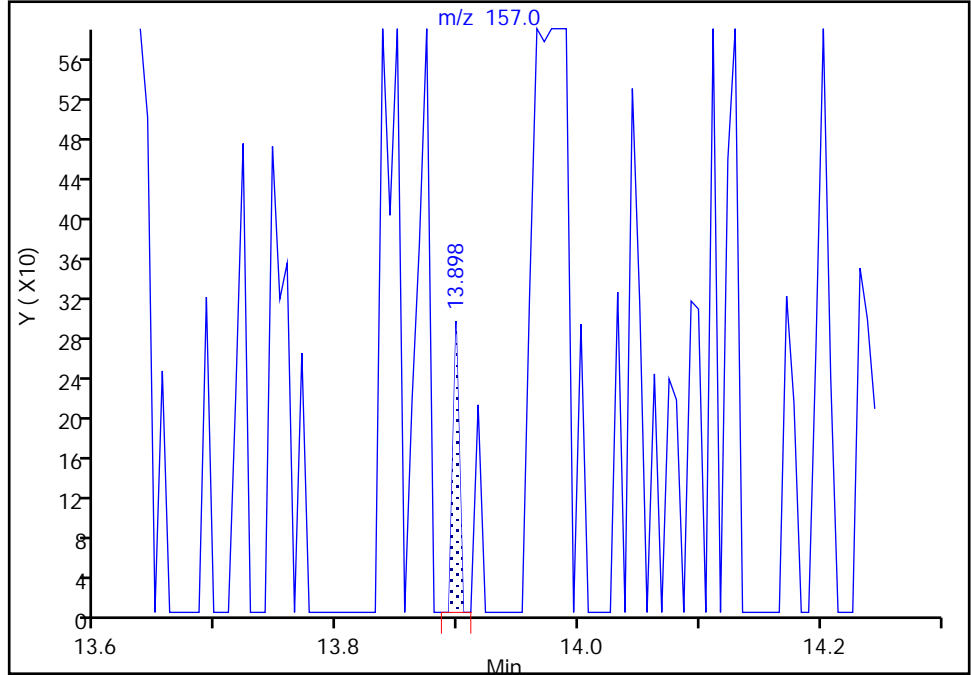
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Injection Date: 31-Dec-2019 12:53:30 Instrument ID: CHHP6  
Lims ID: IC VSTD1  
Client ID:  
Operator ID: 433269 ALS Bottle#: 4 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
Column: DB-624 (0.18 mm) Detector: MS SCAN

118 1,2-Dibromo-3-Chloropropane, CAS: 96-12-8

Signal: 1

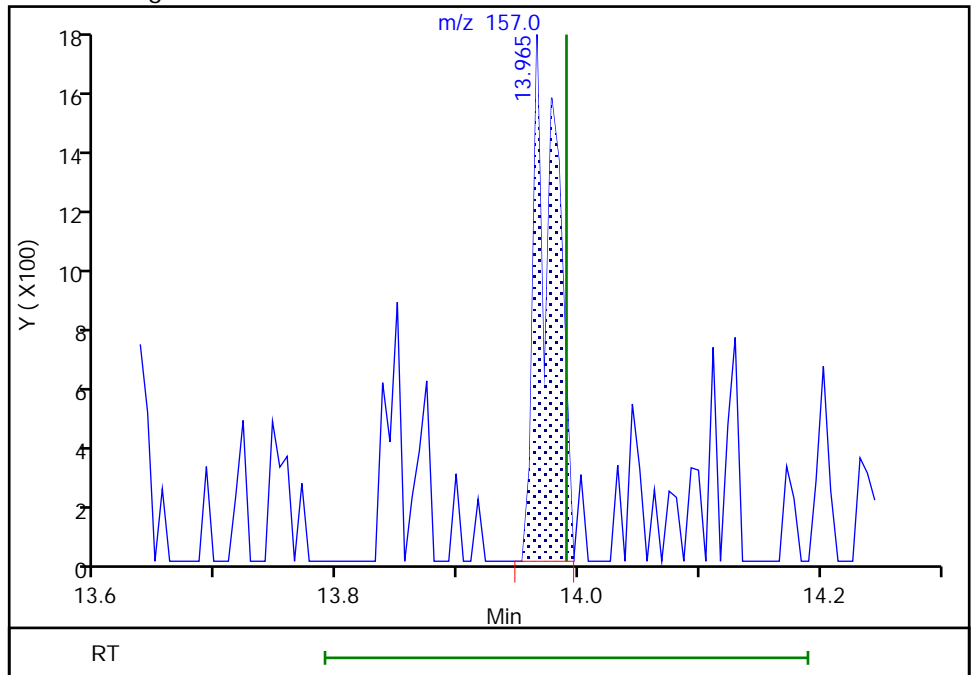
RT: 13.90  
Area: 107  
Amount: 2.913652  
Amount Units: ng

Processing Integration Results



RT: 13.97  
Area: 2252  
Amount: 6.432786  
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 31-Dec-2019 13:47:15  
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Pittsburgh  
Target Compound Quantitation Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123105.D  
 Lims ID: IC VSTD5  
 Client ID:  
 Sample Type: IC Calib Level: 2  
 Inject. Date: 31-Dec-2019 13:20:30 ALS Bottle#: 5 Worklist Smp#: 5  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 180-0030232-005  
 Misc. Info.: IC VSTD5  
 Operator ID: 433269 Instrument ID: CHHP6  
 Sublist: chrom-MSVOA\_LL\_CHHP6\*sub27  
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\MSVOA\_LL\_CHHP6.m  
 Limit Group: VOA 8260C\_D ICAL  
 Last Update: 31-Dec-2019 19:23:49 Calib Date: 31-Dec-2019 16:03:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123111.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0338

First Level Reviewer: bowieh

Date: 31-Dec-2019 13:50:15

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.376	4.378	-0.002	92	210860	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.357	7.353	0.004	99	742858	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.459	10.461	-0.002	84	185063	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.802	12.809	-0.007	92	305360	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.633	6.629	0.004	94	82777	25.0	24.7	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	7.004	6.994	0.010	52	86922	25.0	25.0	
\$ 7 Toluene-d8 (Surr)	98	9.005	9.007	-0.002	92	326283	25.0	23.8	
\$ 8 4-Bromofluorobenzene (Surr	95	11.652	11.648	0.004	0	123203	25.0	25.2	
11 Dichlorodifluoromethane	85	1.644	1.646	-0.002	99	124050	25.0	24.3	
12 Chloromethane	50	1.863	1.865	-0.002	99	132162	25.0	23.3	
13 Vinyl chloride	62	1.985	1.975	0.010	70	117452	25.0	24.1	
14 Butadiene	39	1.991	1.993	-0.002	89	116178	25.0	23.3	
15 Bromomethane	94	2.314	2.315	-0.001	94	78392	25.0	25.2	
16 Chloroethane	64	2.447	2.449	-0.002	98	87800	25.0	24.7	
17 Dichlorofluoromethane	67	2.727	2.729	-0.002	97	177362	25.0	24.4	
18 Trichlorofluoromethane	101	2.758	2.766	-0.008	88	169440	25.0	25.1	
20 Ethyl ether	59	3.129	3.125	0.004	94	84587	25.0	23.9	
22 1,1-Dichloroethene	96	3.427	3.429	-0.002	96	87039	25.0	24.5	
23 1,1,2-Trichloro-1,2,2-trif	101	3.494	3.490	0.004	89	97812	25.0	24.9	
24 Acetone	43	3.518	3.526	-0.008	98	96526	50.0	53.2	
25 Iodomethane	142	3.634	3.623	0.011	97	165756	25.0	24.4	
26 Carbon disulfide	76	3.713	3.709	0.004	100	169621	25.0	21.2	
29 3-Chloro-1-propene	76	3.999	4.007	-0.008	93	46045	25.0	22.8	
30 Methyl acetate	43	4.035	4.037	-0.002	98	131686	50.0	46.5	
31 Methylene Chloride	84	4.230	4.232	-0.002	96	117457	25.0	24.1	
32 2-Methyl-2-propanol	59	4.504	4.499	0.005	90	54600	250.0	236.3	
33 Acrylonitrile	53	4.613	4.615	-0.002	99	342776	250.0	234.9	
34 trans-1,2-Dichloroethene	96	4.638	4.639	-0.001	99	97719	25.0	24.2	
35 Methyl tert-butyl ether	73	4.668	4.664	0.004	98	184888	25.0	23.6	
36 Hexane	57	5.057	5.059	-0.002	94	147662	25.0	24.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
37 1,1-Dichloroethane	63	5.276	5.272	0.004	96	157611	25.0	24.2	
42 2,2-Dichloropropane	97	6.018	6.014	0.004	83	19590	25.0	23.4	
43 cis-1,2-Dichloroethene	96	6.025	6.020	0.005	80	106401	25.0	24.4	
44 2-Butanone (MEK)	43	6.043	6.045	-0.002	99	110595	50.0	48.5	
48 Chlorobromomethane	128	6.310	6.300	0.010	96	53398	25.0	23.8	
49 Tetrahydrofuran	42	6.335	6.337	-0.002	0	51766	50.0	44.3	
50 Chloroform	83	6.450	6.446	0.004	95	160630	25.0	23.9	
51 1,1,1-Trichloroethane	97	6.602	6.610	-0.008	97	119415	25.0	23.8	
52 Cyclohexane	56	6.675	6.671	0.004	92	180838	25.0	23.6	
53 Carbon tetrachloride	117	6.767	6.775	-0.008	96	97734	25.0	23.2	a
54 1,1-Dichloropropene	75	6.791	6.793	-0.002	91	115786	25.0	23.2	
55 Isobutyl alcohol	41	7.004	7.006	-0.002	43	60553	625.0	583.1	
56 Benzene	78	7.010	7.012	-0.002	97	389677	25.0	24.3	
57 1,2-Dichloroethane	62	7.089	7.091	-0.002	96	104252	25.0	23.6	
59 n-Heptane	43	7.369	7.371	-0.002	94	118576	25.0	24.6	
61 Trichloroethene	130	7.740	7.742	-0.002	92	121303	25.0	25.5	
63 Methylcyclohexane	83	7.977	7.979	-0.002	89	151804	25.0	23.4	
64 1,2-Dichloropropane	63	8.008	8.016	-0.008	93	93514	25.0	24.9	
67 Dibromomethane	93	8.099	8.107	-0.008	87	50000	25.0	24.6	
65 1,4-Dioxane	88	8.105	8.107	-0.002	36	21163	500.0	517.4	M
68 Dichlorobromomethane	83	8.294	8.296	-0.002	98	75266	25.0	21.4	
71 cis-1,3-Dichloropropene	75	8.744	8.746	-0.002	94	95092	25.0	20.9	
72 4-Methyl-2-pentanone (MIBK)	43	8.902	8.904	-0.002	98	142214	50.0	43.3	
73 Toluene	91	9.072	9.074	-0.002	99	422415	25.0	24.2	
74 trans-1,3-Dichloropropene	75	9.322	9.324	-0.002	95	77793	25.0	20.4	
75 Ethyl methacrylate	69	9.383	9.384	-0.001	92	73520	25.0	19.6	
76 1,1,2-Trichloroethane	97	9.516	9.518	-0.002	88	78773	25.0	24.8	
77 Tetrachloroethene	164	9.583	9.585	-0.002	96	109103	25.0	25.3	
78 1,3-Dichloropropane	76	9.675	9.676	-0.001	92	133204	25.0	25.3	
79 2-Hexanone	43	9.735	9.737	-0.002	98	133233	50.0	47.1	
81 Chlorodibromomethane	129	9.881	9.889	-0.008	91	57616	25.0	21.5	
82 Ethylene Dibromide	107	10.003	9.999	0.004	99	72089	25.0	23.0	
84 Chlorobenzene	112	10.490	10.492	-0.002	97	280340	25.0	24.1	
86 1,1,1,2-Tetrachloroethane	131	10.581	10.583	-0.002	42	78092	25.0	22.9	
87 Ethylbenzene	106	10.587	10.595	-0.008	97	163680	25.0	24.6	
88 m-Xylene & p-Xylene	106	10.721	10.717	0.004	98	188600	25.0	23.6	
89 o-Xylene	106	11.104	11.106	-0.002	94	182572	25.0	24.1	
90 Styrene	104	11.123	11.124	-0.001	96	271188	25.0	22.6	
91 Bromoform	173	11.305	11.307	-0.002	97	31763	25.0	21.4	
93 Isopropylbenzene	105	11.469	11.471	-0.002	95	440844	25.0	23.2	
96 1,1,2,2-Tetrachloroethane	83	11.780	11.781	-0.001	80	82963	25.0	24.5	
95 Bromobenzene	156	11.780	11.787	-0.007	83	122297	25.0	24.3	
97 trans-1,4-Dichloro-2-buten	53	11.816	11.824	-0.008	74	23600	25.0	22.6	
98 1,2,3-Trichloropropane	110	11.846	11.842	0.004	87	36502	25.0	24.7	
99 N-Propylbenzene	120	11.889	11.891	-0.002	98	139097	25.0	23.7	
100 2-Chlorotoluene	126	11.974	11.976	-0.002	98	116406	25.0	24.4	
102 1,3,5-Trimethylbenzene	105	12.072	12.073	-0.001	95	337264	25.0	23.0	
103 4-Chlorotoluene	126	12.102	12.104	-0.002	97	119439	25.0	24.1	
104 tert-Butylbenzene	119	12.388	12.390	-0.002	90	292965	25.0	22.3	
106 1,2,4-Trimethylbenzene	105	12.449	12.444	0.005	95	328267	25.0	22.6	
108 sec-Butylbenzene	105	12.607	12.609	-0.002	93	397127	25.0	22.7	
109 1,3-Dichlorobenzene	146	12.729	12.730	-0.001	97	234640	25.0	25.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
110 4-Isopropyltoluene	119	12.765	12.767	-0.002	96	343690	25.0	22.4	
111 1,4-Dichlorobenzene	146	12.832	12.834	-0.002	98	229016	25.0	24.0	
116 n-Butylbenzene	91	13.173	13.174	-0.001	96	251886	25.0	22.7	
117 1,2-Dichlorobenzene	146	13.191	13.187	0.004	98	213656	25.0	24.3	
118 1,2-Dibromo-3-Chloropropan	75	13.976	13.990	-0.014	84	8939	25.0	20.2	
122 1,2,4-Trichlorobenzene	180	14.803	14.805	-0.002	94	94223	25.0	22.4	
123 Hexachlorobutadiene	225	14.949	14.945	0.004	95	44009	25.0	21.9	
124 Naphthalene	128	15.071	15.073	-0.002	96	187486	25.0	19.3	
125 1,2,3-Trichlorobenzene	180	15.296	15.298	-0.002	96	76173	25.0	21.7	
S 131 Xylenes, Total	106				0		50.0	47.7	
S 130 1,2-Dichloroethene, Total	96				0		50.0	48.6	
S 154 Total BTEX	1				0			120.8	
S 132 1,3-Dichloropropene, Total	1				0		50.0	41.3	

### QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

### Reagents:

VOA8260SURR\_00102

Amount Added: 1.00

Units: uL

VOA8260VOAPRI\_00385

Amount Added: 1.00

Units: uL

voaWKetmix1st\_00021

Amount Added: 1.00

Units: uL

VOA8260INT\_00102

Amount Added: 2.00

Units: uL

Run Reagent

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123105.D

Injection Date: 31-Dec-2019 13:20:30

Instrument ID: CHHP6

Operator ID: 433269

Lims ID: IC VSTD5

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

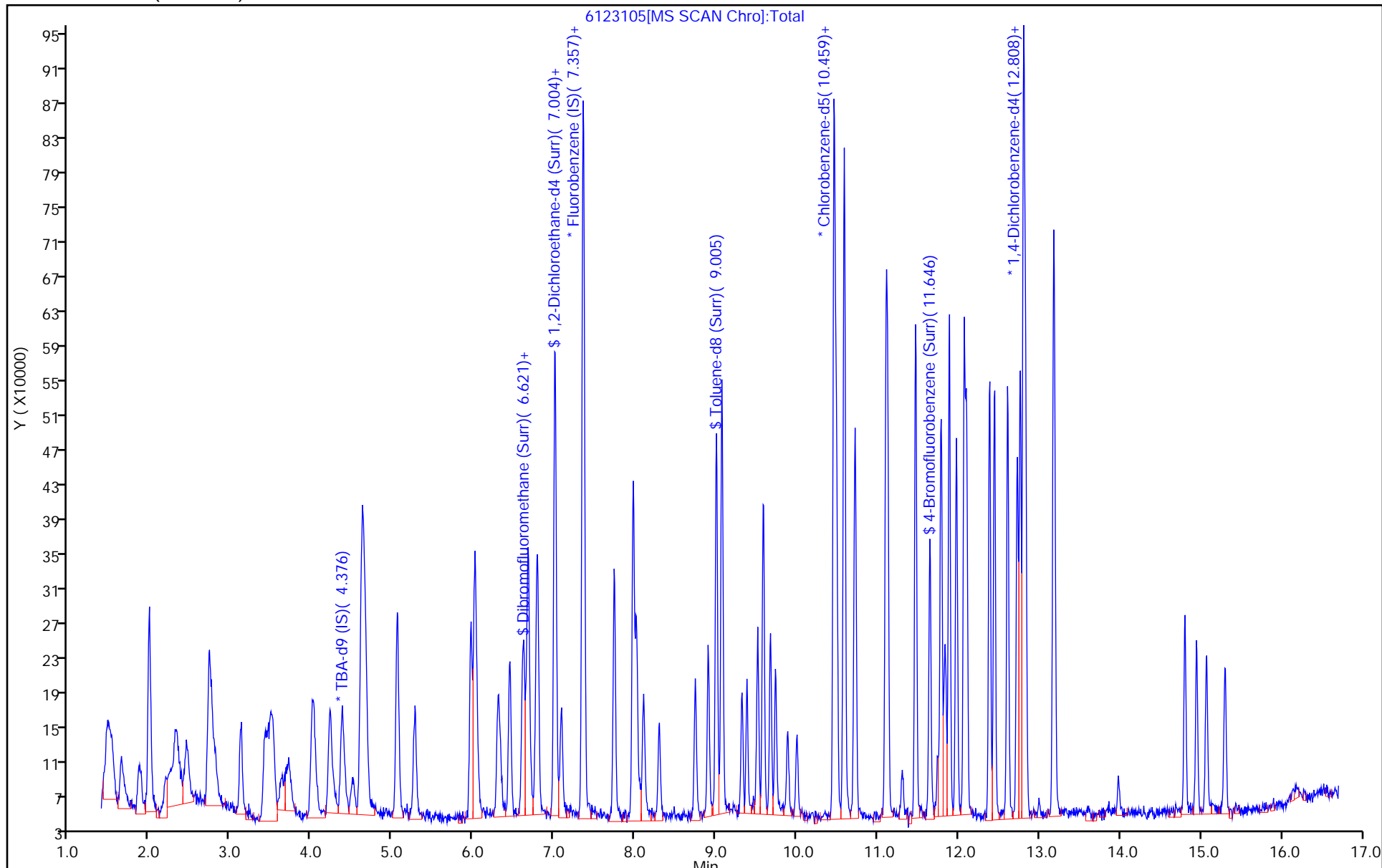
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: MSVOA\_LL\_CHHP6

Limit Group: VOA 8260C\_D ICAL

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Pittsburgh

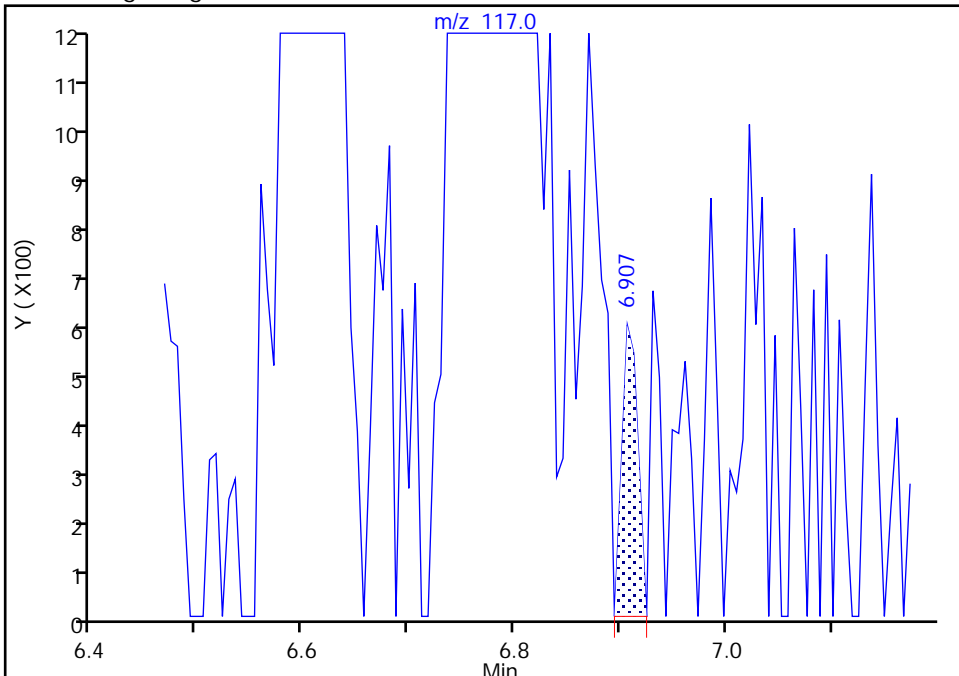
Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123105.D  
Injection Date: 31-Dec-2019 13:20:30 Instrument ID: CHHP6  
Lims ID: IC VSTD5  
Client ID:  
Operator ID: 433269 ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
Column: DB-624 (0.18 mm) Detector: MS SCAN

53 Carbon tetrachloride, CAS: 56-23-5

Signal: 1

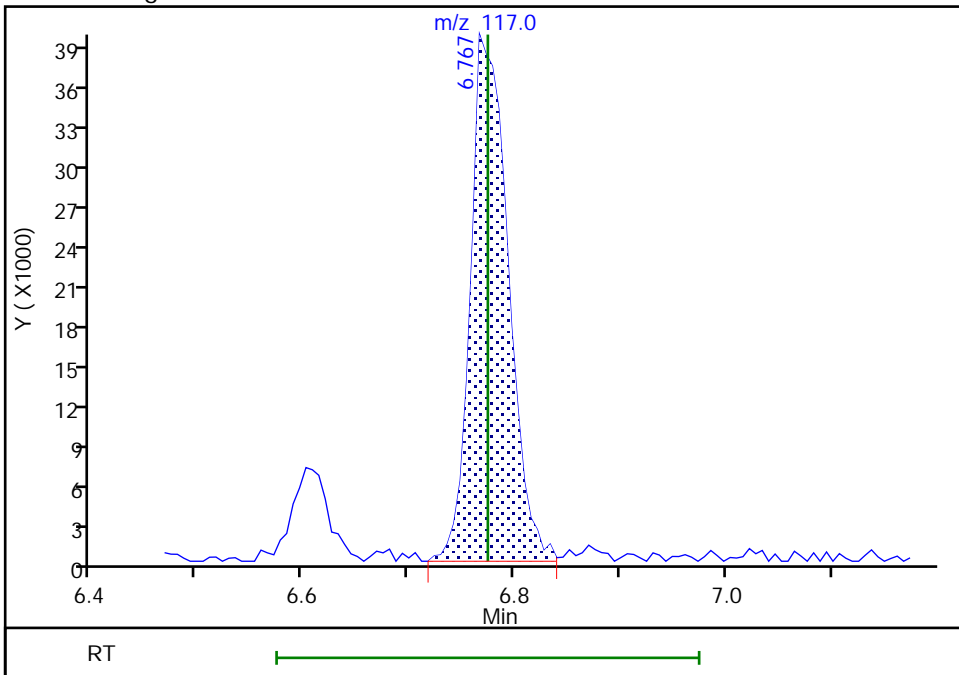
RT: 6.91  
Area: 583  
Amount: 0.270613  
Amount Units: ng

Processing Integration Results



RT: 6.77  
Area: 97734  
Amount: 23.186675  
Amount Units: ng

Manual Integration Results





Eurofins TestAmerica, Pittsburgh

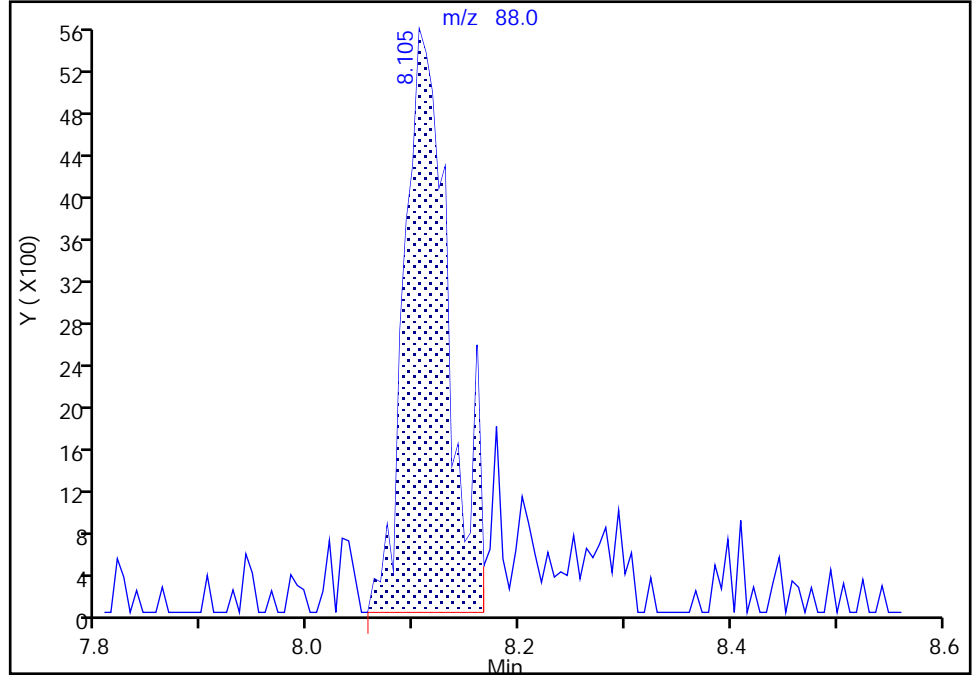
Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123105.D  
Injection Date: 31-Dec-2019 13:20:30 Instrument ID: CHHP6  
Lims ID: IC VSTD5  
Client ID:  
Operator ID: 433269 ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
Column: DB-624 (0.18 mm) Detector: MS SCAN

65 1,4-Dioxane, CAS: 123-91-1

Signal: 1

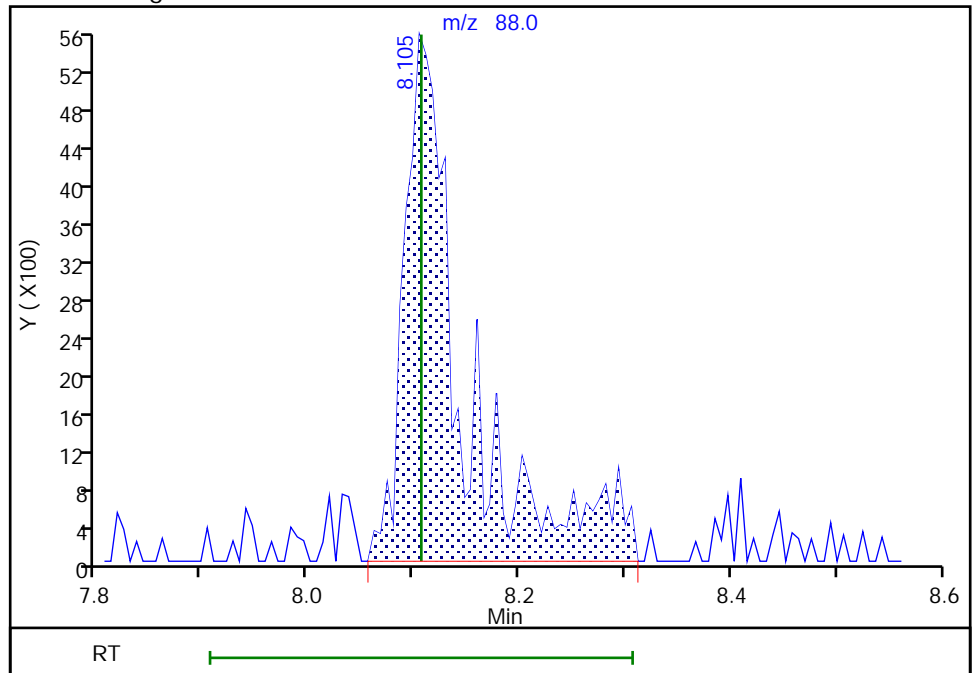
RT: 8.11  
Area: 16031  
Amount: 443.3376  
Amount Units: ng

Processing Integration Results



RT: 8.11  
Area: 21163  
Amount: 517.4313  
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 31-Dec-2019 15:04:49  
Audit Action: Manually Integrated

Audit Reason: Peak Tail

Eurofins TestAmerica, Pittsburgh  
Target Compound Quantitation Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123106.D  
 Lims ID: ICIS VSTD10  
 Client ID:  
 Sample Type: ICIS Calib Level: 3  
 Inject. Date: 31-Dec-2019 13:47:30 ALS Bottle#: 6 Worklist Smp#: 6  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 180-0030232-006  
 Misc. Info.: ICIS VSTD10  
 Operator ID: 433269 Instrument ID: CHHP6  
 Sublist: chrom-MSVOA\_LL\_CHHP6\*sub27  
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\MSVOA\_LL\_CHHP6.m  
 Limit Group: VOA 8260C\_D ICAL  
 Last Update: 31-Dec-2019 19:23:56 Calib Date: 31-Dec-2019 16:03:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123111.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0338

First Level Reviewer: bowieh Date: 31-Dec-2019 14:27:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.378	4.378	0.000	94	207253	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.353	7.353	0.000	98	750706	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.461	10.461	0.000	83	184330	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.809	12.809	0.000	91	306113	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.629	6.629	0.000	94	170061	50.0	50.3	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.994	6.994	0.000	97	173491	50.0	49.3	
\$ 7 Toluene-d8 (Surr)	98	9.007	9.007	0.000	92	712468	50.0	52.2	
\$ 8 4-Bromofluorobenzene (Surr	95	11.648	11.648	0.000	0	253218	50.0	51.9	
11 Dichlorodifluoromethane	85	1.646	1.646	0.000	99	244534	50.0	47.3	
12 Chloromethane	50	1.865	1.865	0.000	99	271598	50.0	47.5	
13 Vinyl chloride	62	1.975	1.975	0.000	57	228759	50.0	46.5	a
14 Butadiene	39	1.993	1.993	0.000	92	234503	50.0	46.6	
15 Bromomethane	94	2.315	2.315	0.000	91	148357	50.0	47.2	
16 Chloroethane	64	2.449	2.449	0.000	98	181851	50.0	50.7	
17 Dichlorofluoromethane	67	2.729	2.729	0.000	97	348956	50.0	47.5	
18 Trichlorofluoromethane	101	2.766	2.766	0.000	98	329388	50.0	48.2	
20 Ethyl ether	59	3.125	3.125	0.000	96	170799	50.0	47.8	
22 1,1-Dichloroethene	96	3.429	3.429	0.000	97	174024	50.0	48.4	
23 1,1,2-Trichloro-1,2,2-trif	101	3.490	3.490	0.000	91	189453	50.0	47.7	
24 Acetone	43	3.526	3.526	0.000	99	182040	100.0	99.4	
25 Iodomethane	142	3.623	3.623	0.000	96	324025	50.0	47.2	
26 Carbon disulfide	76	3.709	3.709	0.000	100	359498	50.0	44.5	
29 3-Chloro-1-propene	76	4.007	4.007	0.000	91	95786	50.0	46.9	
30 Methyl acetate	43	4.037	4.037	0.000	98	266128	100.0	93.0	
31 Methylene Chloride	84	4.232	4.232	0.000	96	214608	50.0	49.2	
32 2-Methyl-2-propanol	59	4.499	4.499	0.000	91	110137	500.0	485.0	
33 Acrylonitrile	53	4.615	4.615	0.000	100	717809	500.0	486.7	
34 trans-1,2-Dichloroethene	96	4.639	4.639	0.000	98	195890	50.0	47.9	
35 Methyl tert-butyl ether	73	4.664	4.664	0.000	98	377114	50.0	47.6	
36 Hexane	57	5.059	5.059	0.000	94	295061	50.0	47.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
37 1,1-Dichloroethane	63	5.272	5.272	0.000	97	317588	50.0	48.2	
42 2,2-Dichloropropane	97	6.014	6.014	0.000	61	40180	50.0	47.5	
43 cis-1,2-Dichloroethene	96	6.020	6.020	0.000	79	210822	50.0	47.9	
44 2-Butanone (MEK)	43	6.045	6.045	0.000	100	226706	100.0	98.4	
48 Chlorobromomethane	128	6.300	6.300	0.000	94	109597	50.0	48.4	
49 Tetrahydrofuran	42	6.337	6.337	0.000	0	102707	100.0	90.9	
50 Chloroform	83	6.446	6.446	0.000	94	310455	50.0	49.2	
51 1,1,1-Trichloroethane	97	6.610	6.610	0.000	99	246104	50.0	48.6	
52 Cyclohexane	56	6.671	6.671	0.000	91	365822	50.0	47.2	
53 Carbon tetrachloride	117	6.775	6.775	0.000	94	199694	50.0	46.9	
54 1,1-Dichloropropene	75	6.793	6.793	0.000	94	248407	50.0	49.3	
55 Isobutyl alcohol	41	7.006	7.006	0.000	61	123016	1250.0	1172.1	
56 Benzene	78	7.012	7.012	0.000	97	778140	50.0	48.0	
57 1,2-Dichloroethane	62	7.091	7.091	0.000	96	217838	50.0	48.7	
59 n-Heptane	43	7.371	7.371	0.000	93	222885	50.0	45.7	
61 Trichloroethene	130	7.742	7.742	0.000	89	230780	50.0	48.0	
63 Methylcyclohexane	83	7.979	7.979	0.000	90	322664	50.0	49.2	
64 1,2-Dichloropropane	63	8.016	8.016	0.000	93	185110	50.0	48.7	
65 1,4-Dioxane	88	8.107	8.107	0.000	38	39104	1000.0	946.1	M
67 Dibromomethane	93	8.107	8.107	0.000	87	96417	50.0	46.9	
68 Dichlorobromomethane	83	8.296	8.296	0.000	99	168012	50.0	47.3	
71 cis-1,3-Dichloropropene	75	8.746	8.746	0.000	92	204762	50.0	44.6	
72 4-Methyl-2-pentanone (MIBK)	43	8.904	8.904	0.000	97	311809	100.0	95.4	
73 Toluene	91	9.074	9.074	0.000	99	845343	50.0	48.7	
74 trans-1,3-Dichloropropene	75	9.324	9.324	0.000	95	177162	50.0	46.6	
75 Ethyl methacrylate	69	9.384	9.384	0.000	92	171976	50.0	46.1	
76 1,1,2-Trichloroethane	97	9.518	9.518	0.000	88	156144	50.0	49.4	
77 Tetrachloroethene	164	9.585	9.585	0.000	96	216115	50.0	50.4	
78 1,3-Dichloropropane	76	9.676	9.676	0.000	94	261002	50.0	49.8	
79 2-Hexanone	43	9.737	9.737	0.000	98	269796	100.0	95.8	
81 Chlorodibromomethane	129	9.889	9.889	0.000	90	125612	50.0	47.1	
82 Ethylene Dibromide	107	9.999	9.999	0.000	100	152974	50.0	49.0	
84 Chlorobenzene	112	10.492	10.492	0.000	98	565711	50.0	48.9	
86 1,1,1,2-Tetrachloroethane	131	10.583	10.583	0.000	93	164708	50.0	48.4	
87 Ethylbenzene	106	10.595	10.595	0.000	97	342150	50.0	51.6	
88 m-Xylene & p-Xylene	106	10.717	10.717	0.000	97	401674	50.0	50.6	
89 o-Xylene	106	11.106	11.106	0.000	94	384100	50.0	50.8	
90 Styrene	104	11.124	11.124	0.000	95	584450	50.0	48.8	
91 Bromoform	173	11.307	11.307	0.000	98	68494	50.0	46.3	
93 Isopropylbenzene	105	11.471	11.471	0.000	94	942019	50.0	49.8	
96 1,1,2,2-Tetrachloroethane	83	11.781	11.781	0.000	75	169691	50.0	50.4	
95 Bromobenzene	156	11.787	11.787	0.000	85	246947	50.0	48.9	
97 trans-1,4-Dichloro-2-buten	53	11.824	11.824	0.000	66	48306	50.0	46.2	
98 1,2,3-Trichloropropane	110	11.842	11.842	0.000	84	70431	50.0	50.4	
99 N-Propylbenzene	120	11.891	11.891	0.000	98	284674	50.0	48.5	
100 2-Chlorotoluene	126	11.976	11.976	0.000	99	235977	50.0	49.3	
102 1,3,5-Trimethylbenzene	105	12.073	12.073	0.000	96	726262	50.0	49.4	
103 4-Chlorotoluene	126	12.104	12.104	0.000	96	253257	50.0	51.0	
104 tert-Butylbenzene	119	12.390	12.390	0.000	90	643097	50.0	48.9	
106 1,2,4-Trimethylbenzene	105	12.444	12.444	0.000	95	726000	50.0	49.8	
108 sec-Butylbenzene	105	12.609	12.609	0.000	93	850992	50.0	48.4	
109 1,3-Dichlorobenzene	146	12.730	12.730	0.000	97	457428	50.0	48.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
110 4-Isopropyltoluene	119	12.767	12.767	0.000	97	747300	50.0	48.6	
111 1,4-Dichlorobenzene	146	12.834	12.834	0.000	97	469927	50.0	49.2	
116 n-Butylbenzene	91	13.174	13.174	0.000	96	528878	50.0	47.5	
117 1,2-Dichlorobenzene	146	13.187	13.187	0.000	99	428070	50.0	48.6	
118 1,2-Dibromo-3-Chloropropan	75	13.978	13.990	-0.012	84	19856	50.0	44.8	
122 1,2,4-Trichlorobenzene	180	14.805	14.805	0.000	94	199328	50.0	47.3	
123 Hexachlorobutadiene	225	14.945	14.945	0.000	93	97343	50.0	48.3	
124 Naphthalene	128	15.073	15.073	0.000	96	433085	50.0	44.4	
125 1,2,3-Trichlorobenzene	180	15.298	15.298	0.000	95	160700	50.0	45.6	
S 131 Xylenes, Total	106				0		100.0	101.4	
S 130 1,2-Dichloroethene, Total	96				0		100.0	95.8	
S 132 1,3-Dichloropropene, Total	1				0		100.0	91.3	

### QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

### Reagents:

VOA8260SURRE\_00102

Amount Added: 2.00

Units: uL

VOA8260VOAPRI\_00385

Amount Added: 2.00

Units: uL

voaWKetmix1st\_00021

Amount Added: 2.00

Units: uL

VOA8260INT\_00102

Amount Added: 2.00

Units: uL

Run Reagent

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123106.D

Injection Date: 31-Dec-2019 13:47:30

Instrument ID: CHHP6

Operator ID: 433269

Lims ID: ICIS VSTD10

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

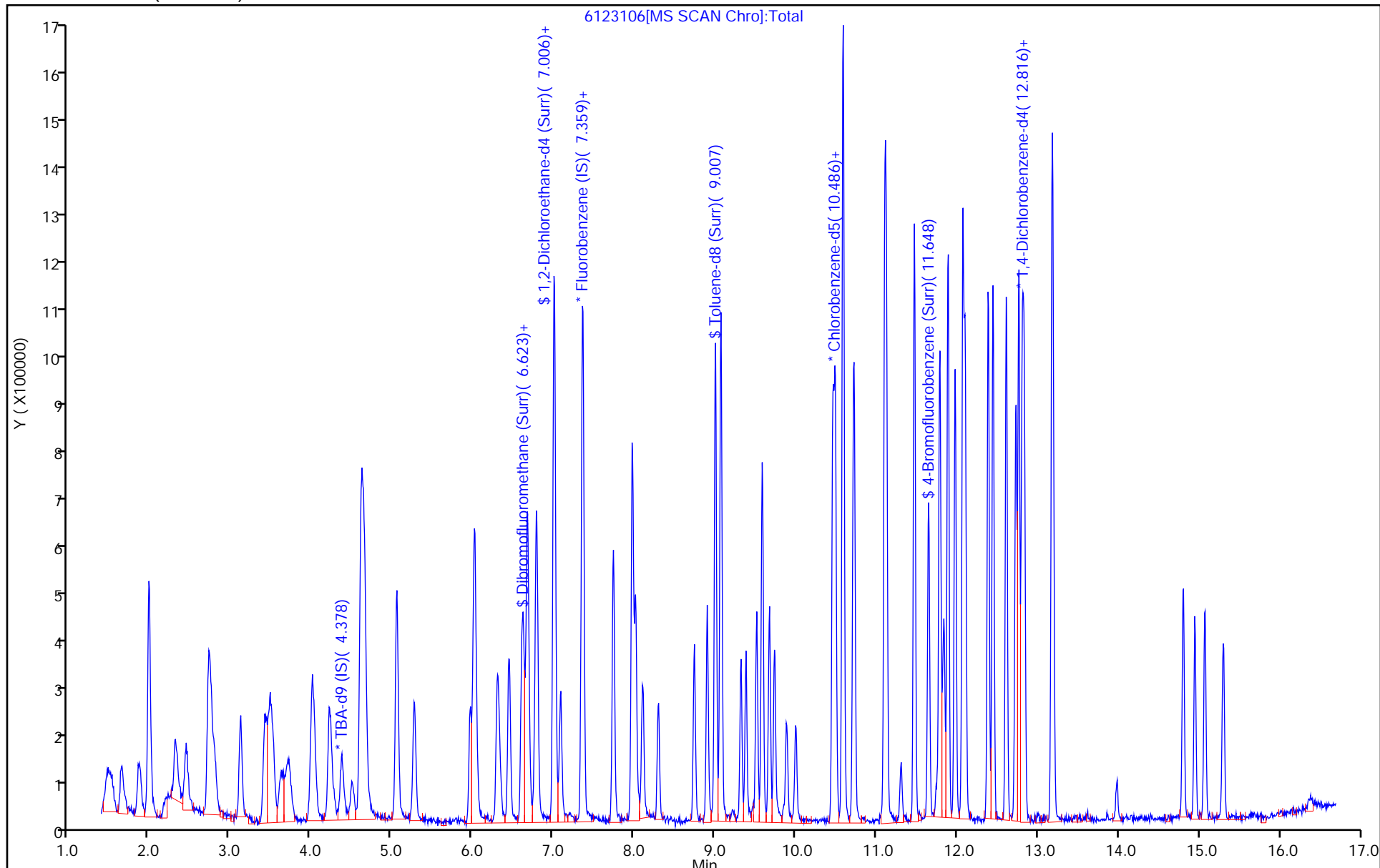
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: MSVOA\_LL\_CHHP6

Limit Group: VOA 8260C\_D ICAL

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Pittsburgh

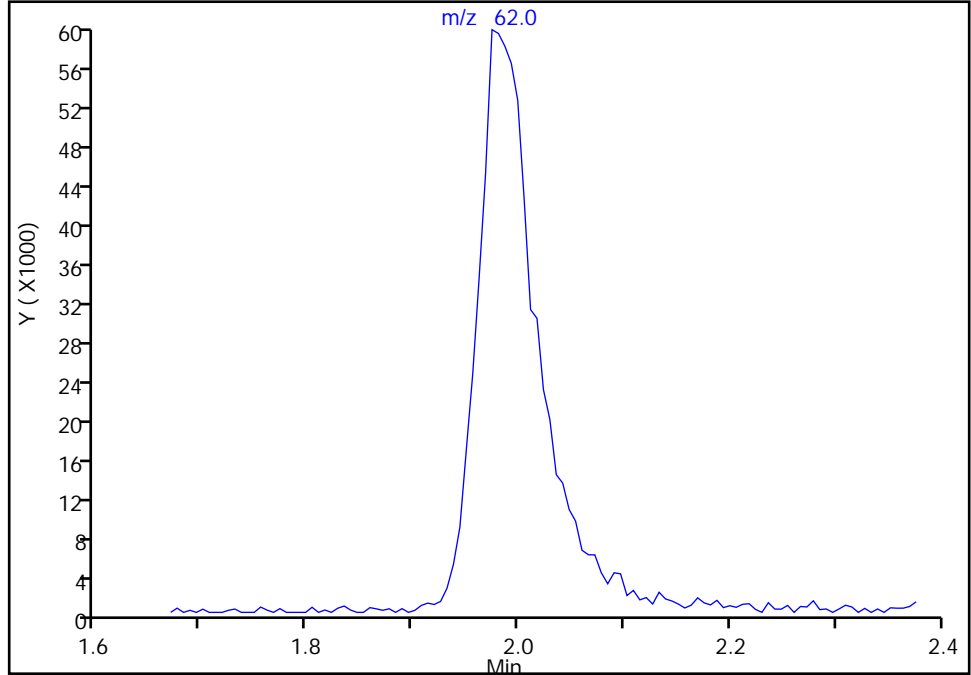
Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123106.D  
Injection Date: 31-Dec-2019 13:47:30 Instrument ID: CHHP6  
Lims ID: ICIS VSTD10  
Client ID:  
Operator ID: 433269 ALS Bottle#: 6 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
Column: DB-624 (0.18 mm) Detector: MS SCAN

13 Vinyl chloride, CAS: 75-01-4

Signal: 1

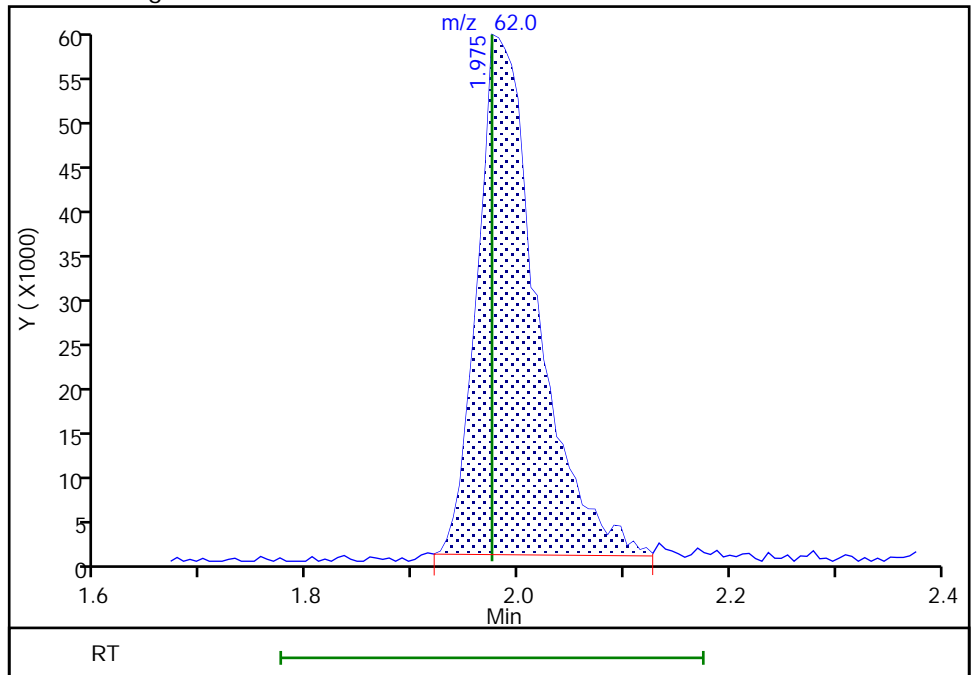
Not Detected  
Expected RT: 1.97

Processing Integration Results



Manual Integration Results

RT: 1.97  
Area: 228759  
Amount: 46.466849  
Amount Units: ng



Reviewer: bowieh, 31-Dec-2019 14:24:05  
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Pittsburgh

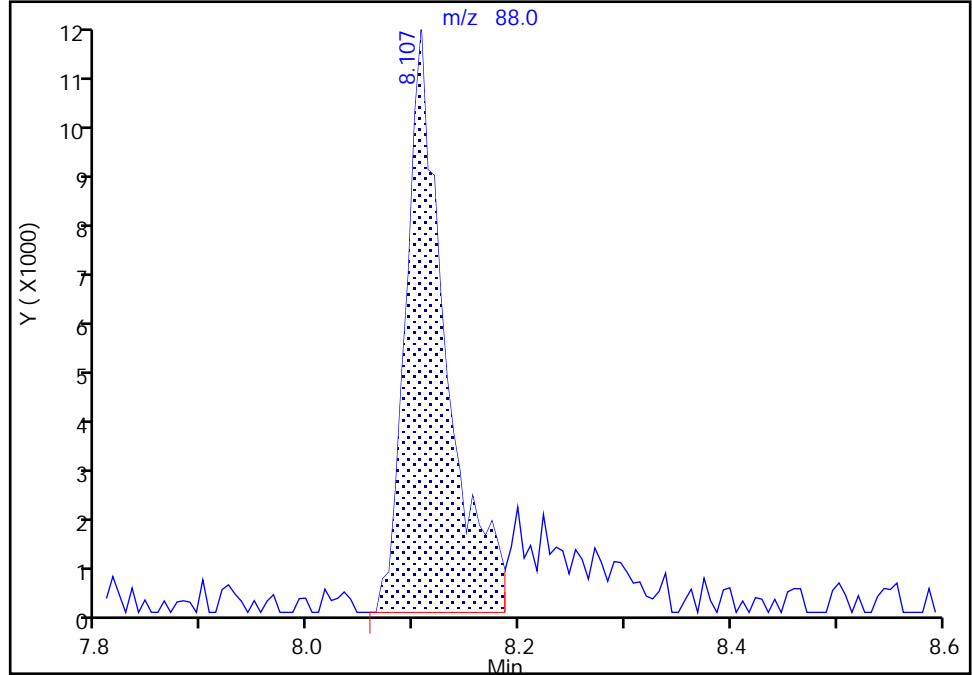
Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123106.D  
Injection Date: 31-Dec-2019 13:47:30 Instrument ID: CHHP6  
Lims ID: ICIS VSTD10  
Client ID:  
Operator ID: 433269 ALS Bottle#: 6 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
Column: DB-624 (0.18 mm) Detector: MS SCAN

65 1,4-Dioxane, CAS: 123-91-1

Signal: 1

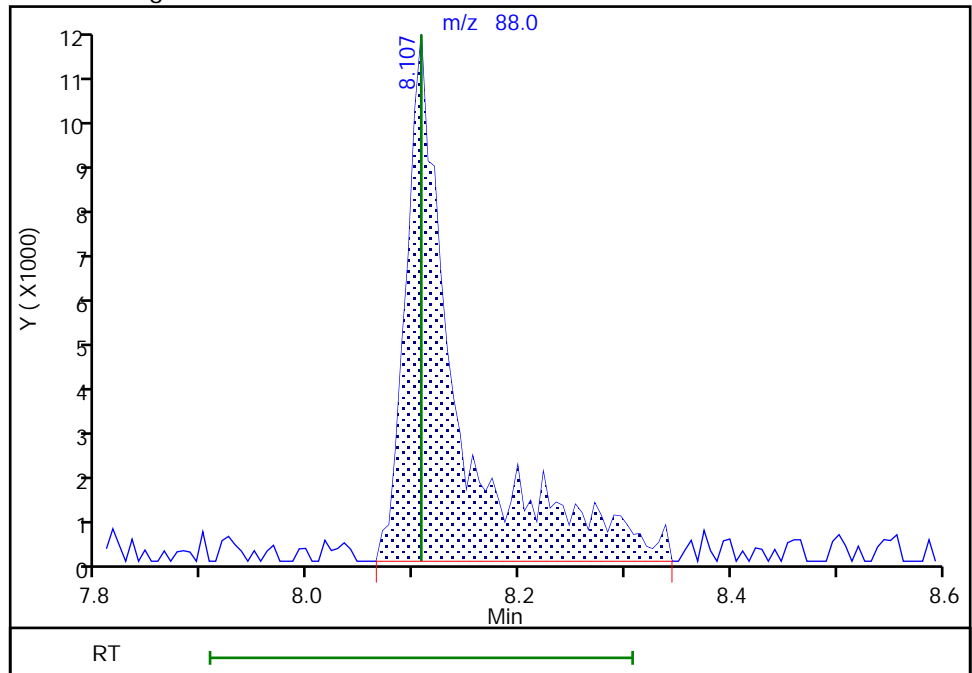
RT: 8.11  
Area: 30135  
Amount: 780.3698  
Amount Units: ng

Processing Integration Results



RT: 8.11  
Area: 39104  
Amount: 946.0903  
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 31-Dec-2019 15:05:19  
Audit Action: Manually Integrated

Audit Reason: Peak Tail

Eurofins TestAmerica, Pittsburgh  
Target Compound Quantitation Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123107.D  
 Lims ID: IC VSTD15  
 Client ID:  
 Sample Type: IC Calib Level: 4  
 Inject. Date: 31-Dec-2019 14:14:30 ALS Bottle#: 7 Worklist Smp#: 7  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 180-0030232-007  
 Misc. Info.: IC VSTD15  
 Operator ID: 433269 Instrument ID: CHHP6  
 Sublist: chrom-MSVOA\_LL\_CHHP6\*sub27  
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\MSVOA\_LL\_CHHP6.m  
 Limit Group: VOA 8260C\_D ICAL  
 Last Update: 31-Dec-2019 19:24:02 Calib Date: 31-Dec-2019 16:03:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123111.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0338

First Level Reviewer: bowieh

Date: 31-Dec-2019 14:40:03

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.381	4.381	0.000	95	216328	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.355	7.355	0.000	99	716863	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.458	10.458	0.000	83	185835	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.806	12.806	0.000	93	309400	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.631	6.631	0.000	94	234651	75.0	72.6	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	7.002	7.002	0.000	95	254293	75.0	75.6	
\$ 7 Toluene-d8 (Surr)	98	9.004	9.004	0.000	92	1017499	75.0	73.9	
\$ 8 4-Bromofluorobenzene (Surr	95	11.644	11.644	0.000	0	356044	75.0	72.4	
11 Dichlorodifluoromethane	85	1.643	1.643	0.000	99	372659	75.0	75.6	
12 Chloromethane	50	1.862	1.862	0.000	99	404923	75.0	74.1	
13 Vinyl chloride	62	1.996	1.996	0.000	57	342666	75.0	72.9	
14 Butadiene	39	1.990	1.990	0.000	91	341314	75.0	71.0	
15 Bromomethane	94	2.324	2.324	0.000	93	223652	75.0	74.6	
16 Chloroethane	64	2.452	2.452	0.000	98	248489	75.0	72.6	
17 Dichlorofluoromethane	67	2.732	2.732	0.000	95	511335	75.0	72.9	
18 Trichlorofluoromethane	101	2.762	2.762	0.000	96	483738	75.0	74.2	
20 Ethyl ether	59	3.121	3.121	0.000	94	249612	75.0	73.1	
22 1,1-Dichloroethene	96	3.425	3.425	0.000	97	251209	75.0	73.2	
23 1,1,2-Trichloro-1,2,2-trif	101	3.498	3.498	0.000	90	279982	75.0	73.9	
24 Acetone	43	3.529	3.529	0.000	94	257166	150.0	147.0	
25 Iodomethane	142	3.650	3.650	0.000	95	487948	75.0	74.4	
26 Carbon disulfide	76	3.723	3.723	0.000	100	559517	75.0	72.5	
29 3-Chloro-1-propene	76	4.009	4.009	0.000	92	142362	75.0	73.0	
30 Methyl acetate	43	4.040	4.040	0.000	98	394883	150.0	144.5	
31 Methylene Chloride	84	4.228	4.228	0.000	97	302158	75.0	75.8	
32 2-Methyl-2-propanol	59	4.508	4.508	0.000	95	166216	750.0	701.3	
33 Acrylonitrile	53	4.618	4.618	0.000	99	1045701	750.0	742.6	
34 trans-1,2-Dichloroethene	96	4.642	4.642	0.000	98	291466	75.0	74.7	
35 Methyl tert-butyl ether	73	4.666	4.666	0.000	98	560086	75.0	74.1	
36 Hexane	57	5.062	5.062	0.000	96	431758	75.0	73.1	



Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
37 1,1-Dichloroethane	63	5.275	5.275	0.000	97	466563	75.0	74.1	
42 2,2-Dichloropropane	97	6.017	6.017	0.000	84	55165	75.0	68.3	
43 cis-1,2-Dichloroethene	96	6.023	6.023	0.000	79	309164	75.0	73.6	
44 2-Butanone (MEK)	43	6.041	6.041	0.000	100	327967	150.0	149.0	
48 Chlorobromomethane	128	6.309	6.309	0.000	94	162176	75.0	75.0	
49 Tetrahydrofuran	42	6.327	6.327	0.000	0	146393	150.0	137.7	
50 Chloroform	83	6.449	6.449	0.000	95	434580	75.0	74.0	
51 1,1,1-Trichloroethane	97	6.607	6.607	0.000	98	355248	75.0	73.5	
52 Cyclohexane	56	6.674	6.674	0.000	91	550896	75.0	74.4	
53 Carbon tetrachloride	117	6.783	6.783	0.000	97	299455	75.0	73.6	
54 1,1-Dichloropropene	75	6.796	6.796	0.000	92	359920	75.0	74.8	
55 Isobutyl alcohol	41	7.002	7.002	0.000	73	172075	1875.0	1717.0	
56 Benzene	78	7.009	7.009	0.000	97	1148621	75.0	74.1	
57 1,2-Dichloroethane	62	7.088	7.088	0.000	96	315021	75.0	73.8	
59 n-Heptane	43	7.367	7.367	0.000	94	334619	75.0	71.8	
61 Trichloroethene	130	7.739	7.739	0.000	92	335993	75.0	73.2	
63 Methylcyclohexane	83	7.976	7.976	0.000	90	457914	75.0	73.2	
64 1,2-Dichloropropane	63	8.012	8.012	0.000	93	265963	75.0	73.3	
67 Dibromomethane	93	8.104	8.104	0.000	87	143335	75.0	73.0	
65 1,4-Dioxane	88	8.116	8.116	0.000	37	59035	1500.0	1495.7	M
68 Dichlorobromomethane	83	8.298	8.298	0.000	99	250699	75.0	74.0	
71 cis-1,3-Dichloropropene	75	8.742	8.742	0.000	93	313034	75.0	71.4	
72 4-Methyl-2-pentanone (MIBK)	43	8.901	8.901	0.000	97	483425	150.0	146.7	
73 Toluene	91	9.077	9.077	0.000	99	1268290	75.0	72.4	
74 trans-1,3-Dichloropropene	75	9.320	9.320	0.000	95	264102	75.0	69.0	
75 Ethyl methacrylate	69	9.387	9.387	0.000	91	269970	75.0	71.8	
76 1,1,2-Trichloroethane	97	9.515	9.515	0.000	88	235084	75.0	73.8	
77 Tetrachloroethene	164	9.588	9.588	0.000	95	310380	75.0	71.7	
78 1,3-Dichloropropane	76	9.673	9.673	0.000	95	380334	75.0	71.9	
79 2-Hexanone	43	9.740	9.740	0.000	97	410487	150.0	144.6	
81 Chlorodibromomethane	129	9.892	9.892	0.000	90	193970	75.0	72.1	
82 Ethylene Dibromide	107	10.002	10.002	0.000	99	227694	75.0	72.4	
84 Chlorobenzene	112	10.494	10.494	0.000	98	858546	75.0	73.5	
86 1,1,1,2-Tetrachloroethane	131	10.580	10.580	0.000	94	246893	75.0	72.0	
87 Ethylbenzene	106	10.592	10.592	0.000	97	494529	75.0	74.0	
88 m-Xylene & p-Xylene	106	10.719	10.719	0.000	98	603517	75.0	75.4	
89 o-Xylene	106	11.103	11.103	0.000	95	561459	75.0	73.7	
90 Styrene	104	11.121	11.121	0.000	96	892296	75.0	73.9	
91 Bromoform	173	11.310	11.310	0.000	98	114451	75.0	76.7	
93 Isopropylbenzene	105	11.468	11.468	0.000	94	1386588	75.0	72.7	
96 1,1,2,2-Tetrachloroethane	83	11.784	11.784	0.000	94	234606	75.0	69.1	
95 Bromobenzene	156	11.784	11.784	0.000	85	357865	75.0	70.2	
97 trans-1,4-Dichloro-2-buten	53	11.821	11.821	0.000	71	76111	75.0	72.0	
98 1,2,3-Trichloropropane	110	11.839	11.839	0.000	84	100626	75.0	72.5	
99 N-Propylbenzene	120	11.887	11.887	0.000	98	423140	75.0	71.3	
100 2-Chlorotoluene	126	11.973	11.973	0.000	98	345066	75.0	71.3	
102 1,3,5-Trimethylbenzene	105	12.070	12.070	0.000	96	1064046	75.0	71.6	
103 4-Chlorotoluene	126	12.100	12.100	0.000	95	375722	75.0	74.9	
104 tert-Butylbenzene	119	12.386	12.386	0.000	90	964361	75.0	72.6	
106 1,2,4-Trimethylbenzene	105	12.447	12.447	0.000	95	1067033	75.0	72.4	
108 sec-Butylbenzene	105	12.611	12.611	0.000	92	1271381	75.0	71.6	
109 1,3-Dichlorobenzene	146	12.727	12.727	0.000	97	676136	75.0	71.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
110 4-Isopropyltoluene	119	12.764	12.764	0.000	96	1126040	75.0	72.5	
111 1,4-Dichlorobenzene	146	12.830	12.830	0.000	97	679137	75.0	70.3	
116 n-Butylbenzene	91	13.171	13.171	0.000	96	785857	75.0	69.8	
117 1,2-Dichlorobenzene	146	13.189	13.189	0.000	98	644960	75.0	72.4	
118 1,2-Dibromo-3-Chloropropan	75	13.986	13.980	0.006	87	30177	75.0	67.3	
122 1,2,4-Trichlorobenzene	180	14.801	14.801	0.000	94	291213	75.0	68.4	
123 Hexachlorobutadiene	225	14.947	14.947	0.000	93	144561	75.0	70.9	
124 Naphthalene	128	15.069	15.069	0.000	96	680460	75.0	69.1	
125 1,2,3-Trichlorobenzene	180	15.300	15.300	0.000	97	249036	75.0	69.9	
S 131 Xylenes, Total	106				0		150.0	149.0	
S 130 1,2-Dichloroethene, Total	96				0		150.0	148.3	
S 154 Total BTEX	1				0			369.6	
S 132 1,3-Dichloropropene, Total	1				0		150.0	140.4	

### QC Flag Legend

Review Flags

M - Manually Integrated

### Reagents:

VOA8260SURR_00102	Amount Added: 3.00	Units: uL	
VOA8260VOAPRI_00385	Amount Added: 3.00	Units: uL	
voaWKetmix1st_00021	Amount Added: 3.00	Units: uL	
VOA8260INT_00102	Amount Added: 2.00	Units: uL	Run Reagent

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123107.D

Injection Date: 31-Dec-2019 14:14:30

Instrument ID: CHHP6

Operator ID: 433269

Lims ID: IC VSTD15

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

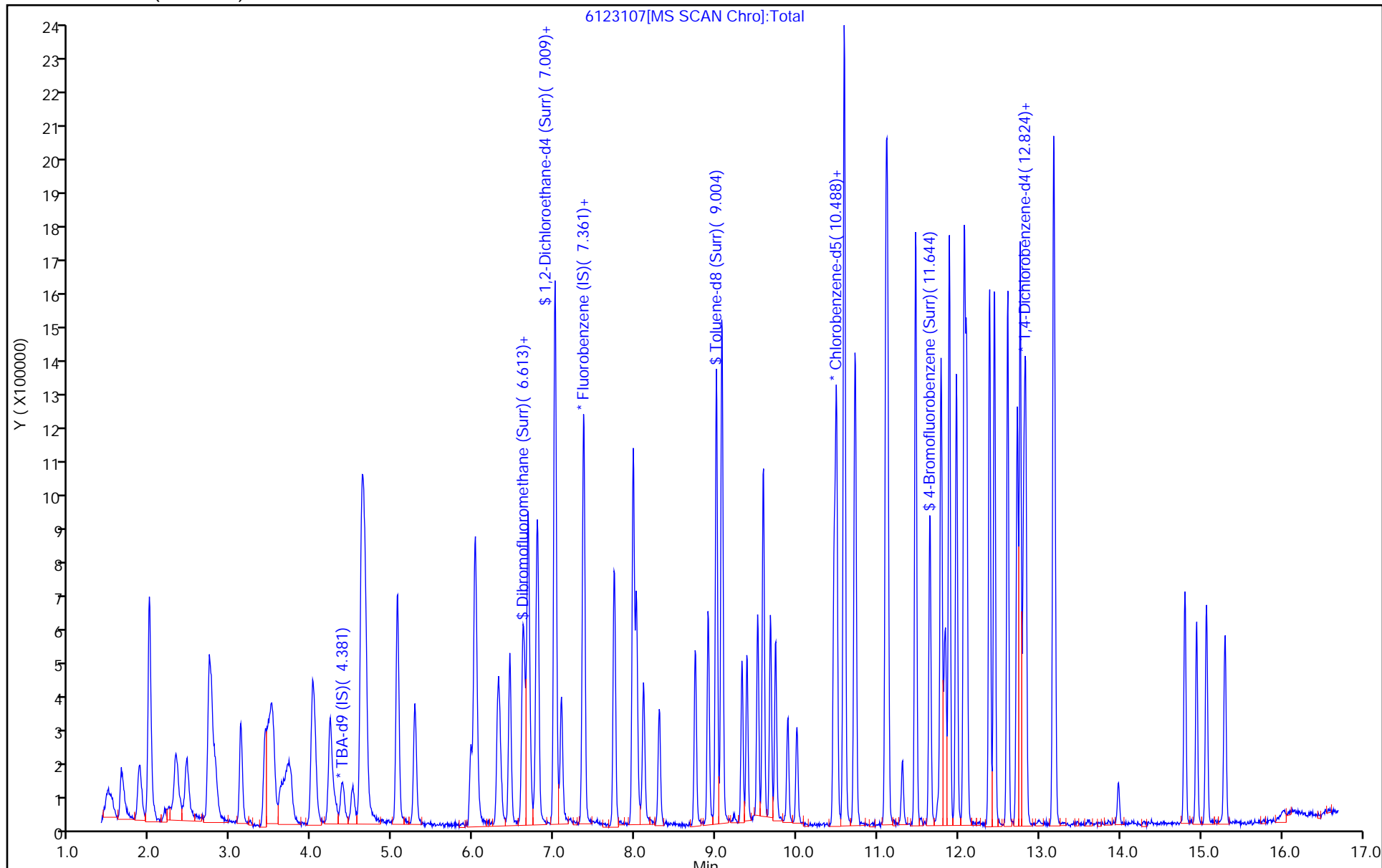
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: MSVOA\_LL\_CHHP6

Limit Group: VOA 8260C\_D ICAL

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Pittsburgh

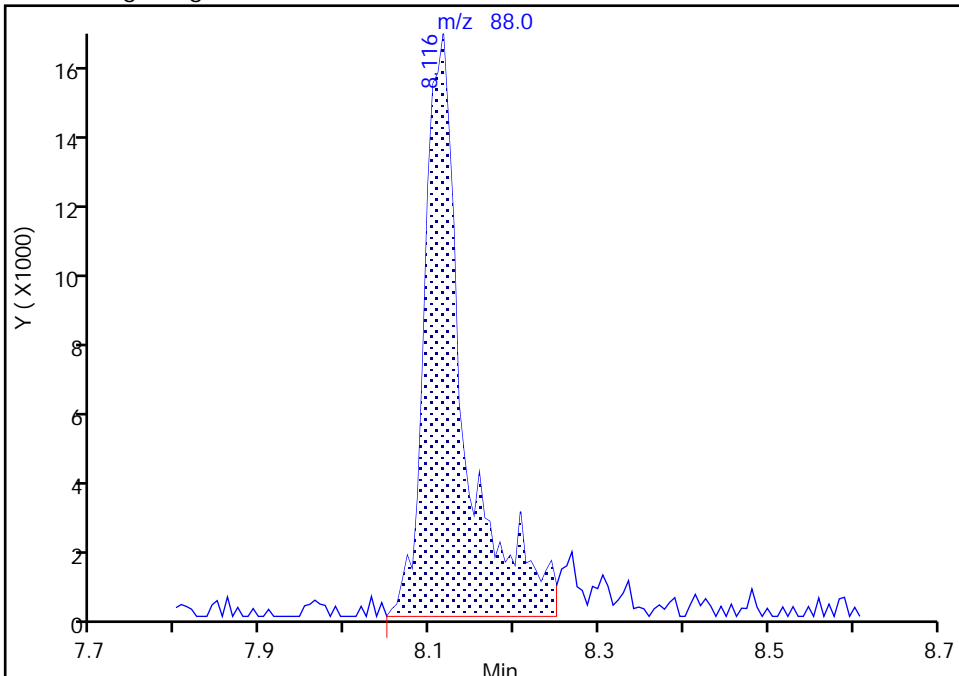
Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123107.D  
Injection Date: 31-Dec-2019 14:14:30 Instrument ID: CHHP6  
Lims ID: IC VSTD15  
Client ID:  
Operator ID: 433269 ALS Bottle#: 7 Worklist Smp#: 7  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
Column: DB-624 (0.18 mm) Detector: MS SCAN

65 1,4-Dioxane, CAS: 123-91-1

Signal: 1

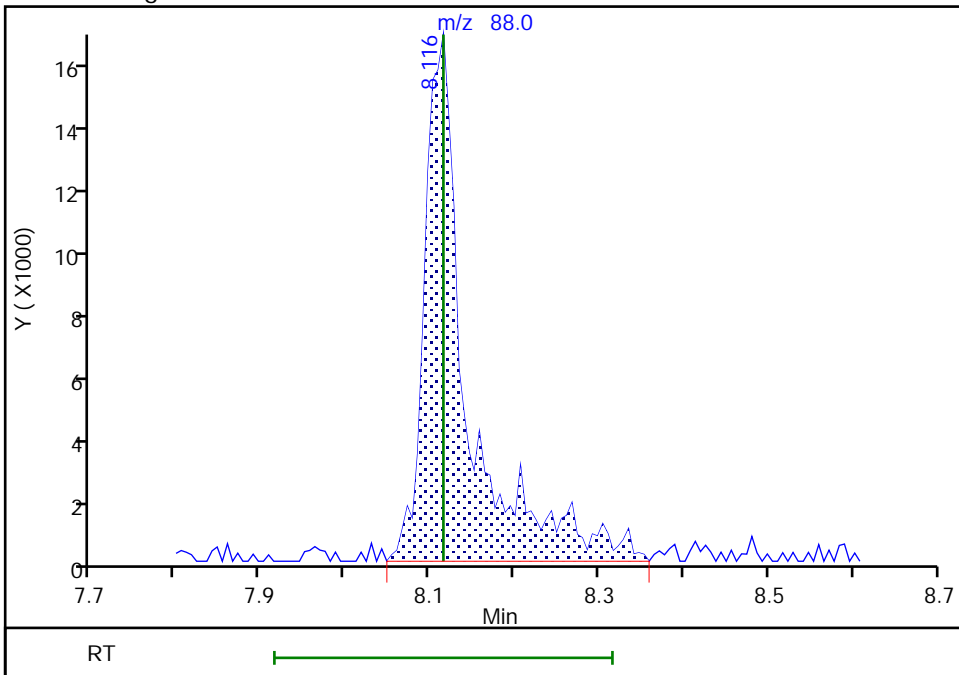
RT: 8.12  
Area: 54101  
Amount: 1402.0032  
Amount Units: ng

Processing Integration Results



RT: 8.12  
Area: 59035  
Amount: 1495.7351  
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 31-Dec-2019 15:05:46  
Audit Action: Manually Integrated

Audit Reason: Peak Tail

Eurofins TestAmerica, Pittsburgh  
Target Compound Quantitation Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123108.D  
 Lims ID: IC VSTD20  
 Client ID:  
 Sample Type: IC Calib Level: 5  
 Inject. Date: 31-Dec-2019 14:41:30 ALS Bottle#: 8 Worklist Smp#: 8  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 180-0030232-008  
 Misc. Info.: IC VSTD20  
 Operator ID: 433269 Instrument ID: CHHP6  
 Sublist: chrom-MSVOA\_LL\_CHHP6\*sub27  
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\MSVOA\_LL\_CHHP6.m  
 Limit Group: VOA 8260C\_D ICAL  
 Last Update: 31-Dec-2019 19:24:10 Calib Date: 31-Dec-2019 16:03:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123111.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0338

First Level Reviewer: bowieh

Date: 31-Dec-2019 15:01:41

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.374	4.381	-0.006	92	211402	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.355	7.355	0.000	99	736891	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.464	10.458	0.006	82	184491	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.806	12.806	0.000	92	300033	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.631	6.631	0.000	95	326244	100.0	98.2	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	7.002	7.002	0.000	96	330948	100.0	95.8	
\$ 7 Toluene-d8 (Surr)	98	9.004	9.004	0.000	93	1354076	100.0	99.1	
\$ 8 4-Bromofluorobenzene (Surr	95	11.644	11.644	0.000	0	476892	100.0	97.7	
11 Dichlorodifluoromethane	85	1.643	1.643	0.000	100	529947	100.0	104.5	
12 Chloromethane	50	1.856	1.862	-0.006	99	567680	100.0	101.1	
14 Butadiene	39	1.984	1.990	-0.006	92	508275	100.0	102.9	
13 Vinyl chloride	62	1.984	1.996	-0.012	98	510239	100.0	105.6	
15 Bromomethane	94	2.318	2.324	-0.006	91	307246	100.0	99.7	
16 Chloroethane	64	2.446	2.452	-0.006	99	353765	100.0	100.5	
17 Dichlorofluoromethane	67	2.732	2.732	0.000	99	724684	100.0	100.6	
18 Trichlorofluoromethane	101	2.756	2.762	-0.006	98	666038	100.0	99.3	
20 Ethyl ether	59	3.121	3.121	0.000	93	340220	100.0	97.0	
22 1,1-Dichloroethene	96	3.431	3.425	0.006	97	370915	100.0	105.1	
23 1,1,2-Trichloro-1,2,2-trif	101	3.492	3.498	-0.006	90	410890	100.0	105.5	
24 Acetone	43	3.523	3.529	-0.006	100	351109	200.0	195.2	
25 Iodomethane	142	3.620	3.650	-0.030	97	676940	100.0	100.4	
26 Carbon disulfide	76	3.717	3.723	-0.006	100	855020	100.0	107.7	
29 3-Chloro-1-propene	76	4.009	4.009	0.000	92	200044	100.0	99.8	
30 Methyl acetate	43	4.034	4.040	-0.006	99	538302	200.0	191.6	
31 Methylene Chloride	84	4.228	4.228	0.000	96	408707	100.0	101.9	
32 2-Methyl-2-propanol	59	4.502	4.508	-0.006	94	240083	1000.0	1036.5	
33 Acrylonitrile	53	4.612	4.618	-0.006	100	1421941	1000.0	982.3	
34 trans-1,2-Dichloroethene	96	4.642	4.642	0.000	98	404003	100.0	100.7	
35 Methyl tert-butyl ether	73	4.660	4.666	-0.006	98	763227	100.0	98.2	
36 Hexane	57	5.056	5.062	-0.006	93	639633	100.0	105.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
37 1,1-Dichloroethane	63	5.275	5.275	0.000	96	664119	100.0	102.6	
42 2,2-Dichloropropane	97	6.011	6.017	-0.006	63	86033	100.0	103.6	
43 cis-1,2-Dichloroethene	96	6.017	6.023	-0.006	82	434476	100.0	100.6	
44 2-Butanone (MEK)	43	6.041	6.041	0.000	100	442342	200.0	195.5	
48 Chlorobromomethane	128	6.303	6.309	-0.006	96	213146	100.0	95.9	
49 Tetrahydrofuran	42	6.327	6.327	0.000	0	218899	200.0	202.2	
50 Chloroform	83	6.449	6.449	0.000	94	604865	100.0	101.6	
51 1,1,1-Trichloroethane	97	6.607	6.607	0.000	98	519186	100.0	104.4	
52 Cyclohexane	56	6.674	6.674	0.000	92	802510	100.0	105.4	
53 Carbon tetrachloride	117	6.777	6.783	-0.006	97	449753	100.0	107.6	
54 1,1-Dichloropropene	75	6.796	6.796	0.000	92	517121	100.0	104.5	
55 Isobutyl alcohol	41	7.008	7.002	0.006	84	249939	2500.0	2426.2	
56 Benzene	78	7.008	7.009	-0.001	97	1612645	100.0	101.3	
57 1,2-Dichloroethane	62	7.088	7.088	0.000	96	424213	100.0	96.7	
59 n-Heptane	43	7.367	7.367	0.000	95	491156	100.0	102.6	
61 Trichloroethene	130	7.738	7.739	-0.001	93	491398	100.0	104.1	
63 Methylcyclohexane	83	7.976	7.976	0.000	91	690071	100.0	107.2	
64 1,2-Dichloropropane	63	8.012	8.012	0.000	94	378762	100.0	101.6	a
67 Dibromomethane	93	8.103	8.104	-0.001	87	190611	100.0	94.5	
65 1,4-Dioxane	88	8.110	8.116	-0.006	36	73552	2000.0	1812.9	Ma
68 Dichlorobromomethane	83	8.298	8.298	0.000	99	354789	100.0	101.8	
71 cis-1,3-Dichloropropene	75	8.748	8.742	0.006	93	462689	100.0	102.7	
72 4-Methyl-2-pentanone (MIBK)	43	8.900	8.901	0.000	98	666317	200.0	203.7	
73 Toluene	91	9.071	9.077	-0.006	99	1812476	100.0	104.2	
74 trans-1,3-Dichloropropene	75	9.320	9.320	0.000	95	380673	100.0	100.1	
75 Ethyl methacrylate	69	9.381	9.387	-0.006	91	390983	100.0	104.8	
76 1,1,2-Trichloroethane	97	9.515	9.515	0.000	88	305665	100.0	96.6	
77 Tetrachloroethene	164	9.588	9.588	0.000	94	450442	100.0	104.9	
78 1,3-Dichloropropane	76	9.673	9.673	0.000	95	521537	100.0	99.3	
79 2-Hexanone	43	9.734	9.740	-0.006	98	585263	200.0	207.7	
81 Chlorodibromomethane	129	9.886	9.892	-0.006	91	274963	100.0	102.9	
82 Ethylene Dibromide	107	10.002	10.002	0.000	100	301593	100.0	96.6	
84 Chlorobenzene	112	10.488	10.494	-0.006	97	1169395	100.0	100.9	
86 1,1,1,2-Tetrachloroethane	131	10.579	10.580	-0.001	92	342078	100.0	100.5	
87 Ethylbenzene	106	10.592	10.592	0.000	97	686125	100.0	103.5	
88 m-Xylene & p-Xylene	106	10.719	10.719	0.000	97	855559	100.0	107.6	
89 o-Xylene	106	11.103	11.103	0.000	95	791626	100.0	104.6	
90 Styrene	104	11.121	11.121	0.000	96	1250087	100.0	104.3	
91 Bromoform	173	11.309	11.310	-0.001	99	166362	100.0	112.3	
93 Isopropylbenzene	105	11.468	11.468	0.000	94	2035090	100.0	107.4	
96 1,1,2,2-Tetrachloroethane	83	11.784	11.784	0.000	76	346817	100.0	102.9	
95 Bromobenzene	156	11.784	11.784	0.000	87	493054	100.0	99.7	
97 trans-1,4-Dichloro-2-buten	53	11.820	11.821	-0.001	77	100676	100.0	98.2	
98 1,2,3-Trichloropropane	110	11.845	11.839	0.006	86	127446	100.0	95.7	
99 N-Propylbenzene	120	11.887	11.887	0.000	98	615232	100.0	106.9	
100 2-Chlorotoluene	126	11.979	11.973	0.006	98	489893	100.0	104.4	
102 1,3,5-Trimethylbenzene	105	12.070	12.070	0.000	95	1558281	100.0	108.2	
103 4-Chlorotoluene	126	12.100	12.100	0.000	97	490716	100.0	100.9	
104 tert-Butylbenzene	119	12.386	12.386	0.000	90	1364730	100.0	106.0	
106 1,2,4-Trimethylbenzene	105	12.447	12.447	0.000	96	1532523	100.0	107.2	
108 sec-Butylbenzene	105	12.611	12.611	0.000	92	1826693	100.0	106.0	
109 1,3-Dichlorobenzene	146	12.727	12.727	0.000	96	939833	100.0	102.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
110 4-Isopropyltoluene	119	12.763	12.764	-0.001	97	1627420	100.0	108.1	
111 1,4-Dichlorobenzene	146	12.830	12.830	0.000	96	919517	100.0	98.2	
116 n-Butylbenzene	91	13.171	13.171	0.000	96	1172350	100.0	107.3	
117 1,2-Dichlorobenzene	146	13.189	13.189	0.000	98	870940	100.0	100.8	
118 1,2-Dibromo-3-Chloropropan	75	13.980	13.980	0.000	87	43484	100.0	100.1	
122 1,2,4-Trichlorobenzene	180	14.801	14.801	0.000	95	415344	100.0	100.6	
123 Hexachlorobutadiene	225	14.947	14.947	0.000	95	199359	100.0	100.9	
124 Naphthalene	128	15.069	15.069	0.000	96	983791	100.0	103.0	
125 1,2,3-Trichlorobenzene	180	15.294	15.300	-0.006	97	347489	100.0	100.6	
S 131 Xylenes, Total	106				0		200.0	212.3	
S 130 1,2-Dichloroethene, Total	96				0		200.0	201.3	
S 154 Total BTEX	1				0			521.2	
S 132 1,3-Dichloropropene, Total	1				0		200.0	202.8	

### QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

### Reagents:

VOA8260SURR\_00102

Amount Added: 4.00

Units: uL

VOA8260VOAPRI\_00385

Amount Added: 4.00

Units: uL

voaWKetmix1st\_00021

Amount Added: 4.00

Units: uL

VOA8260INT\_00102

Amount Added: 2.00

Units: uL

Run Reagent

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123108.D

Injection Date: 31-Dec-2019 14:41:30

Instrument ID: CHHP6

Operator ID: 433269

Lims ID: IC VSTD20

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

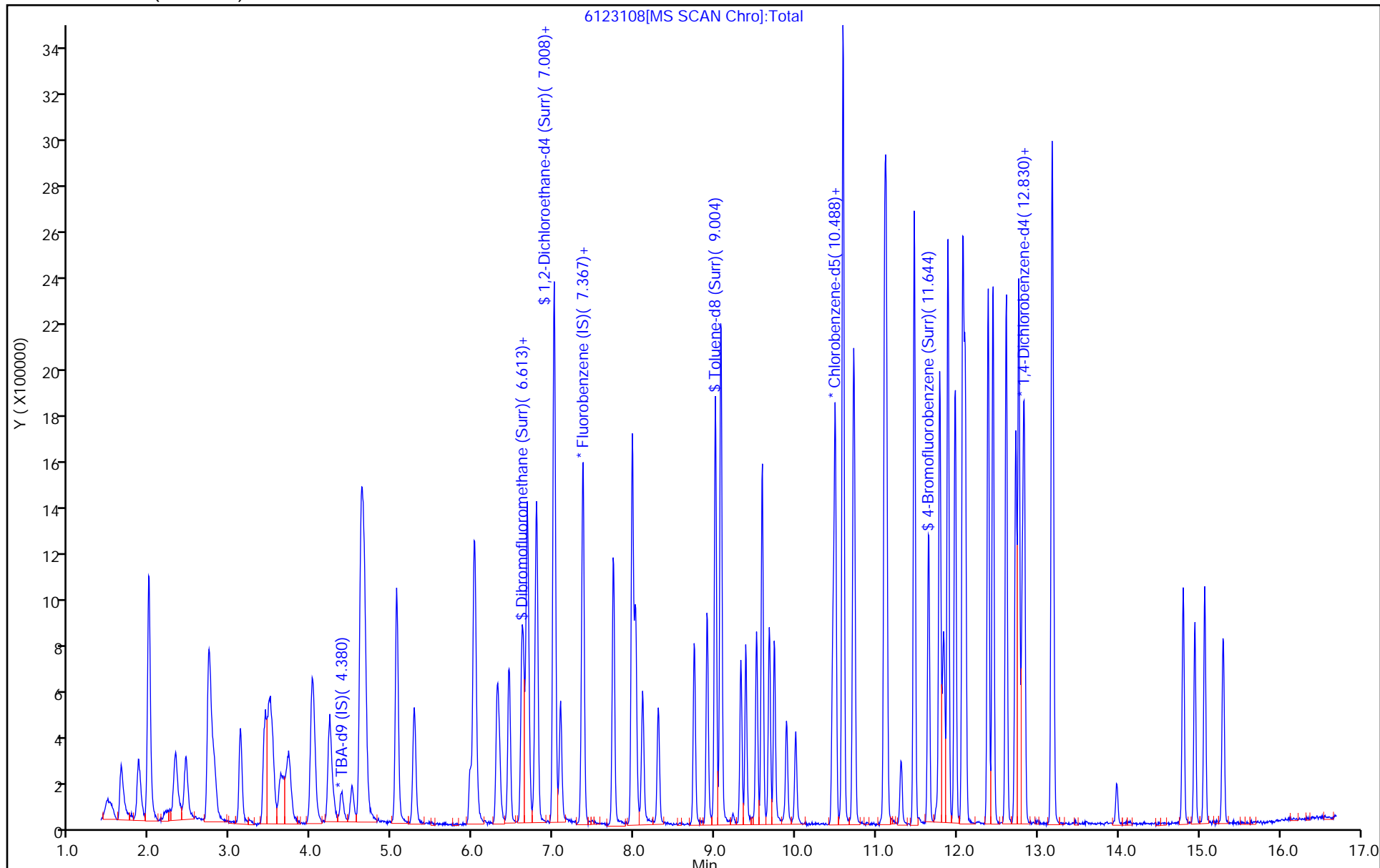
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: MSVOA\_LL\_CHHP6

Limit Group: VOA 8260C\_D ICAL

Column: DB-624 (0.18 mm)





Eurofins TestAmerica, Pittsburgh

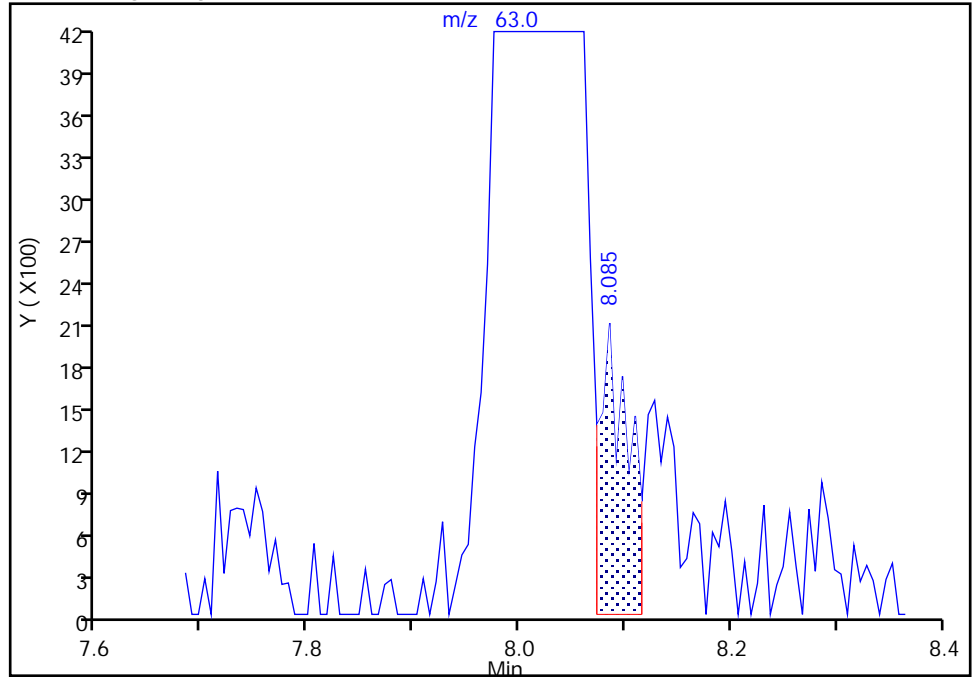
Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123108.D  
Injection Date: 31-Dec-2019 14:41:30 Instrument ID: CHHP6  
Lims ID: IC VSTD20  
Client ID:  
Operator ID: 433269 ALS Bottle#: 8 Worklist Smp#: 8  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
Column: DB-624 (0.18 mm) Detector: MS SCAN

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

Signal: 1

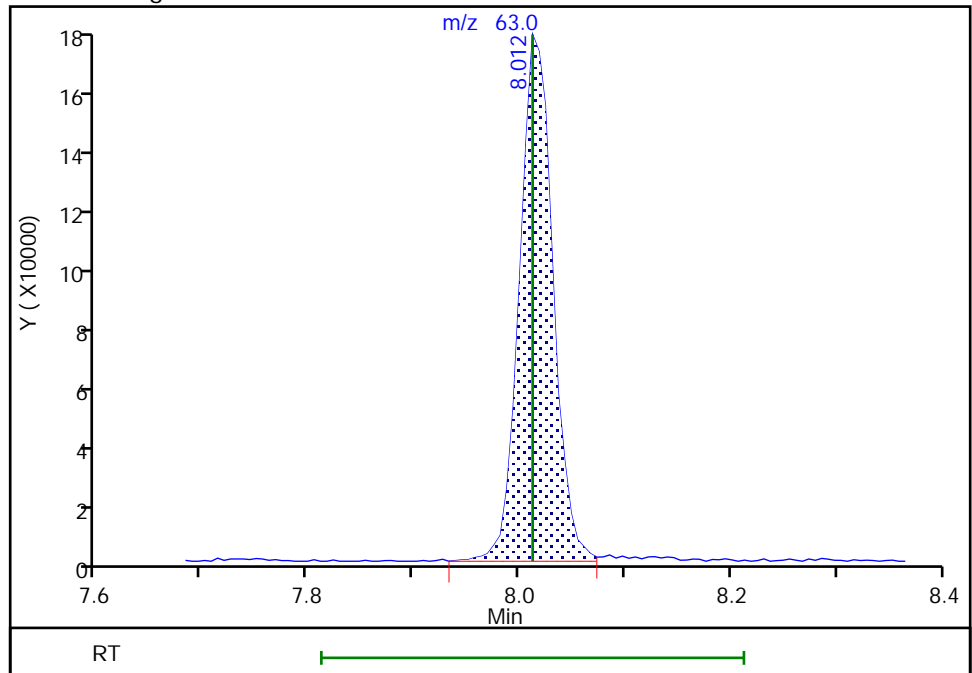
RT: 8.09  
Area: 3916  
Amount: 1.335878  
Amount Units: ng

Processing Integration Results



RT: 8.01  
Area: 378762  
Amount: 101.5986  
Amount Units: ng

Manual Integration Results



Eurofins TestAmerica, Pittsburgh

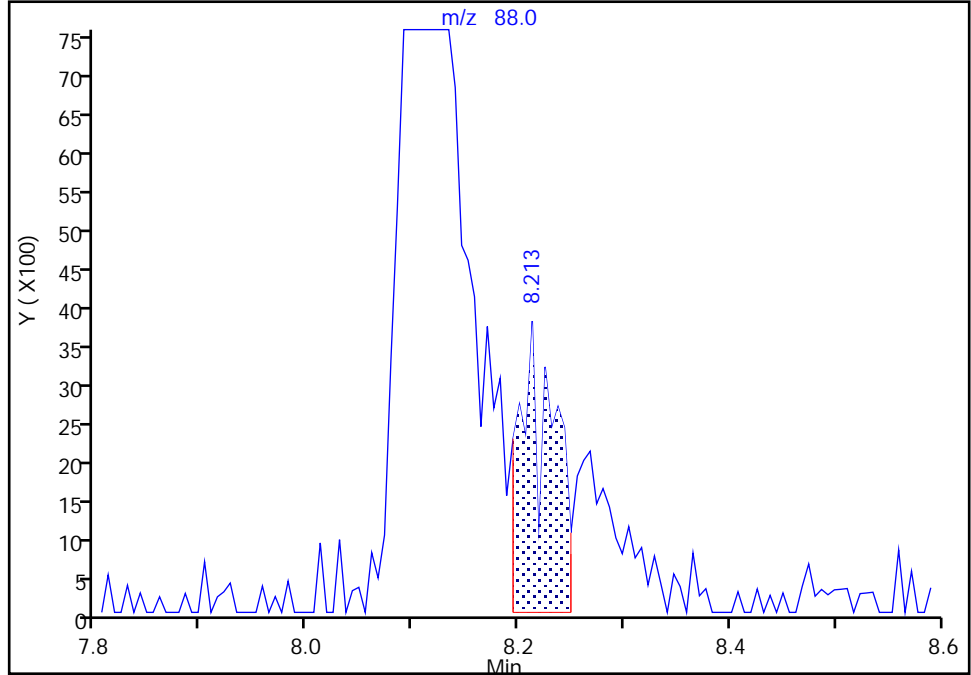
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Injection Date: 31-Dec-2019 14:41:30 Instrument ID: CHHP6  
Lims ID: IC VSTD20  
Client ID:  
Operator ID: 433269 ALS Bottle#: 8 Worklist Smp#: 8  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
Column: DB-624 (0.18 mm) Detector: MS SCAN

65 1,4-Dioxane, CAS: 123-91-1

Signal: 1

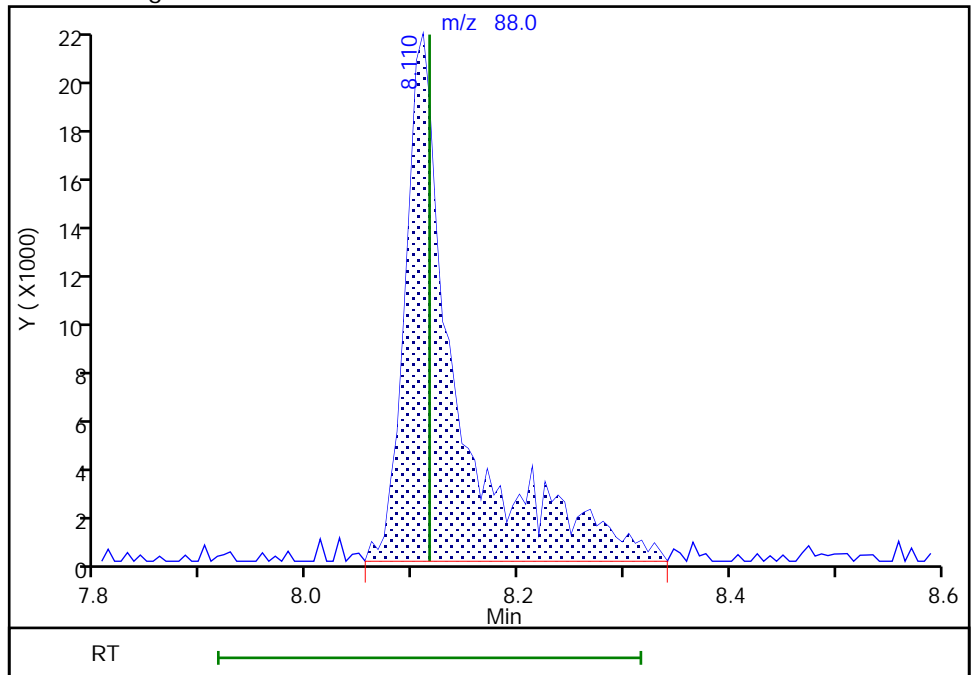
RT: 8.21  
Area: 8620  
Amount: 280.4980  
Amount Units: ng

Processing Integration Results



RT: 8.11  
Area: 73552  
Amount: 1812.8945  
Amount Units: ng

Manual Integration Results



Eurofins TestAmerica, Pittsburgh  
Target Compound Quantitation Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123109.D  
 Lims ID: IC VSTD35  
 Client ID:  
 Sample Type: IC Calib Level: 6  
 Inject. Date: 31-Dec-2019 15:08:30 ALS Bottle#: 9 Worklist Smp#: 9  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 180-0030232-009  
 Misc. Info.: IC VSTD35  
 Operator ID: 433269 Instrument ID: CHHP6  
 Sublist: chrom-MSVOA\_LL\_CHHP6\*sub27  
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\MSVOA\_LL\_CHHP6.m  
 Limit Group: VOA 8260C\_D ICAL  
 Last Update: 31-Dec-2019 19:24:17 Calib Date: 31-Dec-2019 16:03:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123111.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0338

First Level Reviewer: bowieh

Date: 31-Dec-2019 15:36:51

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.371	4.381	-0.009	94	224954	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.352	7.355	-0.003	97	729670	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.467	10.458	0.009	82	185078	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.803	12.806	-0.003	91	302827	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.628	6.631	-0.003	95	553281	175.0	168.3	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.999	7.002	-0.003	94	553111	175.0	161.7	
\$ 7 Toluene-d8 (Surr)	98	9.007	9.004	0.003	93	2423015	175.0	176.7	
\$ 8 4-Bromofluorobenzene (Surr	95	11.647	11.644	0.003	0	841803	175.0	171.9	
11 Dichlorodifluoromethane	85	1.646	1.643	0.003	100	838440	175.0	167.0	
12 Chloromethane	50	1.865	1.862	0.003	99	956886	175.0	172.1	
14 Butadiene	39	1.987	1.990	-0.003	92	795081	175.0	162.5	
13 Vinyl chloride	62	1.987	1.996	-0.009	69	812480	175.0	169.8	
15 Bromomethane	94	2.315	2.324	-0.009	92	516443	175.0	169.2	
16 Chloroethane	64	2.455	2.452	0.003	99	583206	175.0	167.3	
17 Dichlorofluoromethane	67	2.729	2.732	-0.003	96	1193463	175.0	167.3	
18 Trichlorofluoromethane	101	2.753	2.762	-0.009	87	1057554	175.0	159.3	
20 Ethyl ether	59	3.124	3.121	0.003	95	591608	175.0	170.3	
22 1,1-Dichloroethene	96	3.422	3.425	-0.003	98	573868	175.0	164.2	
23 1,1,2-Trichloro-1,2,2-trif	101	3.489	3.498	-0.009	91	646281	175.0	167.5	
24 Acetone	43	3.526	3.529	-0.003	100	604680	350.0	339.5	
25 Iodomethane	142	3.635	3.650	-0.015	95	1130706	175.0	169.4	
26 Carbon disulfide	76	3.720	3.723	-0.003	100	1441307	175.0	183.4	
29 3-Chloro-1-propene	76	4.006	4.009	-0.003	92	352242	175.0	177.5	
30 Methyl acetate	43	4.037	4.040	-0.003	99	969277	350.0	348.4	
31 Methylene Chloride	84	4.225	4.228	-0.003	97	667584	175.0	172.6	
32 2-Methyl-2-propanol	59	4.499	4.508	-0.009	93	425312	1750.0	1725.6	
33 Acrylonitrile	53	4.615	4.618	-0.003	99	2515507	1750.0	1754.9	
34 trans-1,2-Dichloroethene	96	4.639	4.642	-0.003	98	662668	175.0	166.8	
35 Methyl tert-butyl ether	73	4.663	4.666	-0.003	98	1304645	175.0	169.5	
36 Hexane	57	5.059	5.062	-0.003	93	1015815	175.0	168.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
37 1,1-Dichloroethane	63	5.278	5.275	0.003	97	1084547	175.0	169.2	
42 2,2-Dichloropropane	97	6.014	6.017	-0.003	91	140375	175.0	170.8	
43 cis-1,2-Dichloroethene	96	6.020	6.023	-0.003	81	710879	175.0	166.2	
44 2-Butanone (MEK)	43	6.038	6.041	-0.003	99	794495	350.0	354.7	
48 Chlorobromomethane	128	6.306	6.309	-0.003	95	360677	175.0	163.9	
49 Tetrahydrofuran	42	6.324	6.327	-0.003	0	386197	350.0	363.5	
50 Chloroform	83	6.452	6.449	0.003	96	1004583	175.0	173.1	
51 1,1,1-Trichloroethane	97	6.610	6.607	0.003	98	811785	175.0	164.9	
52 Cyclohexane	56	6.677	6.674	0.003	91	1303865	175.0	173.0	
53 Carbon tetrachloride	117	6.774	6.783	-0.009	93	720412	175.0	174.0	
54 1,1-Dichloropropene	75	6.793	6.796	-0.003	93	834863	175.0	170.5	
55 Isobutyl alcohol	41	7.006	7.002	0.004	94	440433	4375.0	4317.6	
56 Benzene	78	7.012	7.009	0.003	97	2685302	175.0	170.3	
57 1,2-Dichloroethane	62	7.085	7.088	-0.003	95	729096	175.0	167.9	
59 n-Heptane	43	7.371	7.367	0.004	94	812324	175.0	171.3	
61 Trichloroethene	130	7.742	7.739	0.003	92	785177	175.0	168.0	
63 Methylcyclohexane	83	7.973	7.976	-0.003	91	1104931	175.0	173.4	
64 1,2-Dichloropropane	63	8.015	8.012	0.003	96	630944	175.0	170.9	a
67 Dibromomethane	93	8.101	8.104	-0.003	89	331853	175.0	166.1	
65 1,4-Dioxane	88	8.107	8.116	-0.009	37	136668	3500.0	3401.9	M
68 Dichlorobromomethane	83	8.301	8.298	0.003	97	615801	175.0	178.5	
71 cis-1,3-Dichloropropene	75	8.745	8.742	0.003	94	845571	175.0	189.5	
72 4-Methyl-2-pentanone (MIBK)	43	8.904	8.901	0.004	97	1247958	350.0	380.3	
73 Toluene	91	9.074	9.077	-0.003	98	3025285	175.0	173.5	
74 trans-1,3-Dichloropropene	75	9.323	9.320	0.003	95	737661	175.0	193.5	
75 Ethyl methacrylate	69	9.384	9.387	-0.003	92	714462	175.0	190.9	
76 1,1,2-Trichloroethane	97	9.518	9.515	0.003	90	529797	175.0	167.0	
77 Tetrachloroethene	164	9.585	9.588	-0.003	95	721634	175.0	167.5	
78 1,3-Dichloropropane	76	9.676	9.673	0.003	96	901501	175.0	171.2	
79 2-Hexanone	43	9.737	9.740	-0.003	98	1058014	350.0	374.3	
81 Chlorodibromomethane	129	9.889	9.892	-0.003	90	504721	175.0	188.3	
82 Ethylene Dibromide	107	9.999	10.002	-0.003	99	545643	175.0	174.2	
84 Chlorobenzene	112	10.491	10.494	-0.003	97	1999919	175.0	172.0	
86 1,1,1,2-Tetrachloroethane	131	10.583	10.580	0.003	92	612886	175.0	179.5	
87 Ethylbenzene	106	10.589	10.592	-0.003	97	1142570	175.0	171.7	
88 m-Xylene & p-Xylene	106	10.723	10.719	0.004	99	1391660	175.0	174.5	
89 o-Xylene	106	11.106	11.103	0.003	95	1312809	175.0	173.0	
90 Styrene	104	11.124	11.121	0.003	96	2151713	175.0	179.0	
91 Bromoform	173	11.307	11.310	-0.003	99	316602	175.0	213.1	
93 Isopropylbenzene	105	11.471	11.468	0.003	94	3365361	175.0	177.1	
95 Bromobenzene	156	11.787	11.784	0.003	86	831910	175.0	166.6	
96 1,1,2,2-Tetrachloroethane	83	11.787	11.784	0.003	79	585611	175.0	173.1	
97 trans-1,4-Dichloro-2-buten	53	11.824	11.821	0.003	82	189417	175.0	183.0	
98 1,2,3-Trichloropropane	110	11.842	11.839	0.003	86	231162	175.0	174.4	
99 N-Propylbenzene	120	11.891	11.887	0.004	97	1000480	175.0	172.2	
100 2-Chlorotoluene	126	11.976	11.973	0.003	98	802381	175.0	169.5	
102 1,3,5-Trimethylbenzene	105	12.073	12.070	0.003	96	2554459	175.0	175.7	
103 4-Chlorotoluene	126	12.103	12.100	0.003	96	852409	175.0	173.6	
104 tert-Butylbenzene	119	12.383	12.386	-0.003	90	2258081	175.0	173.7	
106 1,2,4-Trimethylbenzene	105	12.444	12.447	-0.003	96	2562649	175.0	177.6	
108 sec-Butylbenzene	105	12.608	12.611	-0.003	92	3033683	175.0	174.5	
109 1,3-Dichlorobenzene	146	12.730	12.727	0.003	97	1556952	175.0	167.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
110 4-Isopropyltoluene	119	12.767	12.764	0.003	97	2668796	175.0	175.6	
111 1,4-Dichlorobenzene	146	12.834	12.830	0.004	98	1598507	175.0	169.1	
116 n-Butylbenzene	91	13.174	13.171	0.003	96	1936439	175.0	175.6	
117 1,2-Dichlorobenzene	146	13.192	13.189	0.003	99	1468542	175.0	168.4	
118 1,2-Dibromo-3-Chloropropan	75	13.977	13.980	-0.003	86	74403	175.0	169.6	
122 1,2,4-Trichlorobenzene	180	14.805	14.801	0.004	94	716960	175.0	172.0	
123 Hexachlorobutadiene	225	14.951	14.947	0.004	93	315838	175.0	158.3	
124 Naphthalene	128	15.066	15.069	-0.003	96	1751264	175.0	181.6	
125 1,2,3-Trichlorobenzene	180	15.297	15.300	-0.003	96	591173	175.0	169.6	
S 131 Xylenes, Total	106				0		350.0	347.5	
S 130 1,2-Dichloroethene, Total	96				0		350.0	333.1	
S 154 Total BTEX	1				0			862.9	
S 132 1,3-Dichloropropene, Total	1				0		350.0	382.9	

### QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

### Reagents:

VOA8260SURR\_00102

Amount Added: 7.00

Units: uL

VOA8260VOAPRI\_00385

Amount Added: 7.00

Units: uL

voaWKetmix1st\_00021

Amount Added: 7.00

Units: uL

VOA8260INT\_00102

Amount Added: 2.00

Units: uL

Run Reagent

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123109.D

Injection Date: 31-Dec-2019 15:08:30

Instrument ID: CHHP6

Operator ID: 433269

Lims ID: IC VSTD35

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

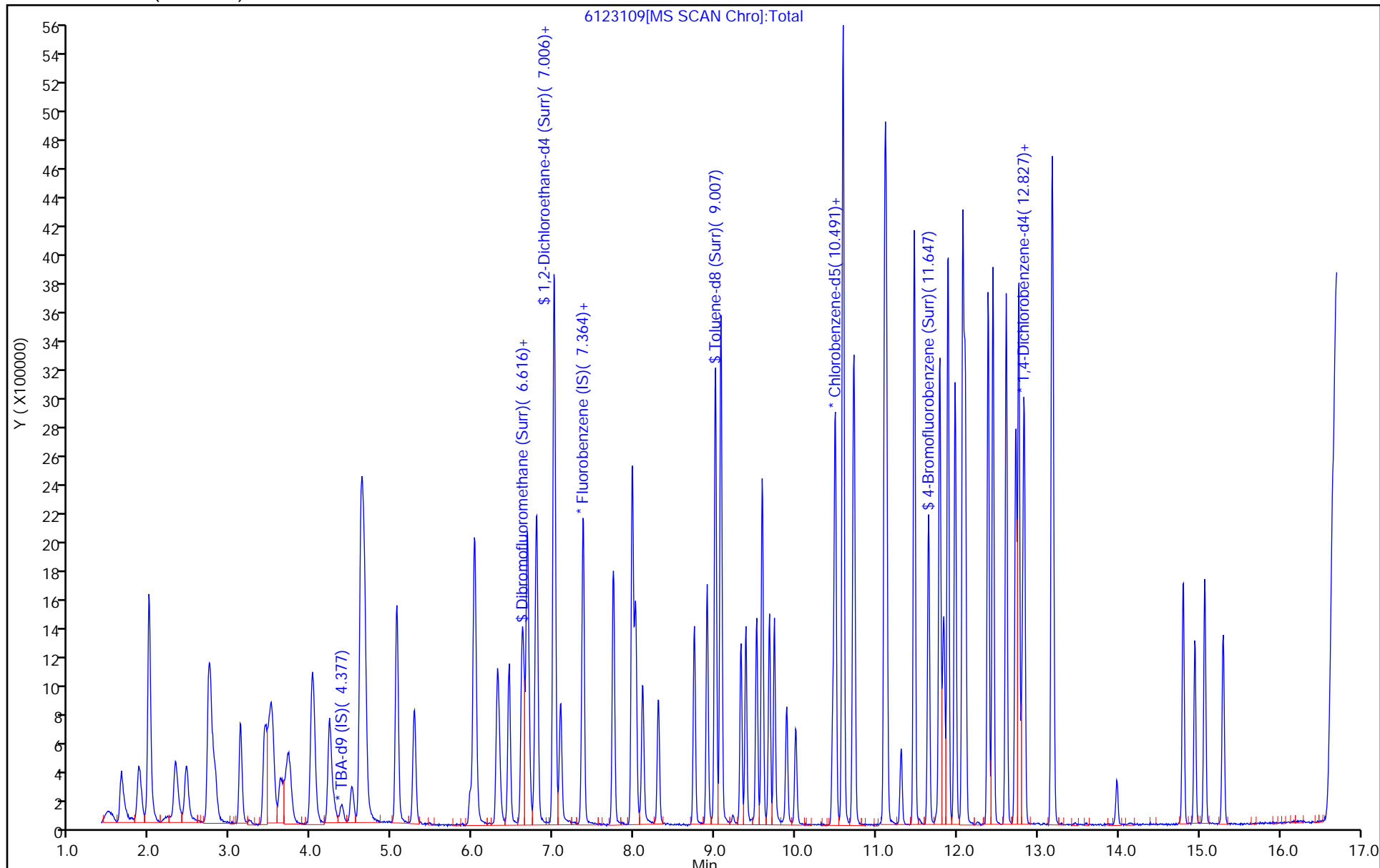
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: MSVOA\_LL\_CHHP6

Limit Group: VOA 8260C\_D ICAL

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Pittsburgh

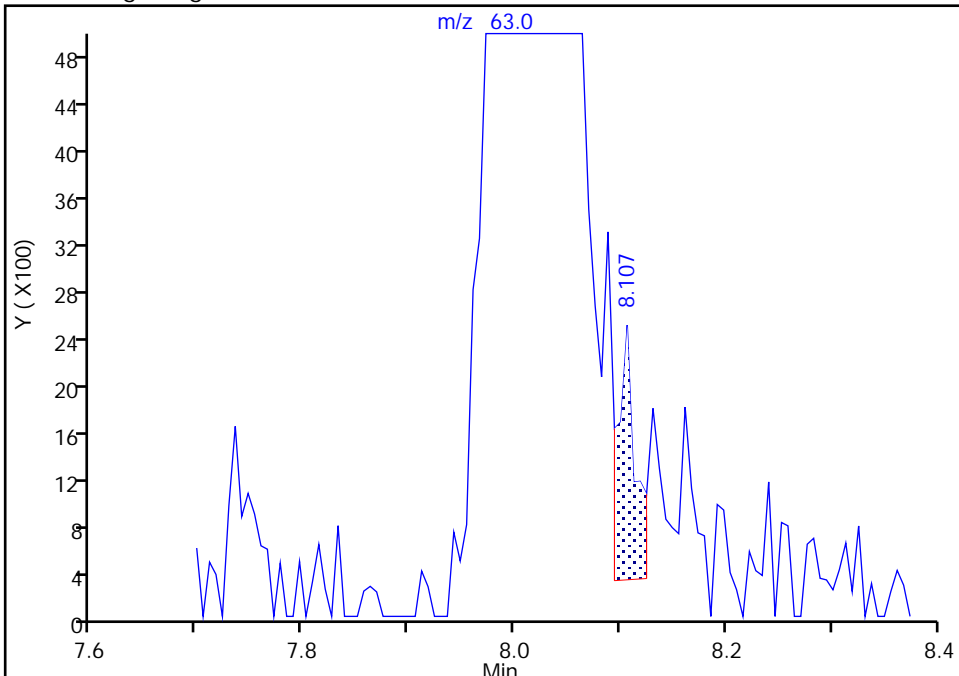
Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123109.D  
Injection Date: 31-Dec-2019 15:08:30 Instrument ID: CHHP6  
Lims ID: IC VSTD35  
Client ID:  
Operator ID: 433269 ALS Bottle#: 9 Worklist Smp#: 9  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
Column: DB-624 (0.18 mm) Detector: MS SCAN

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

Signal: 1

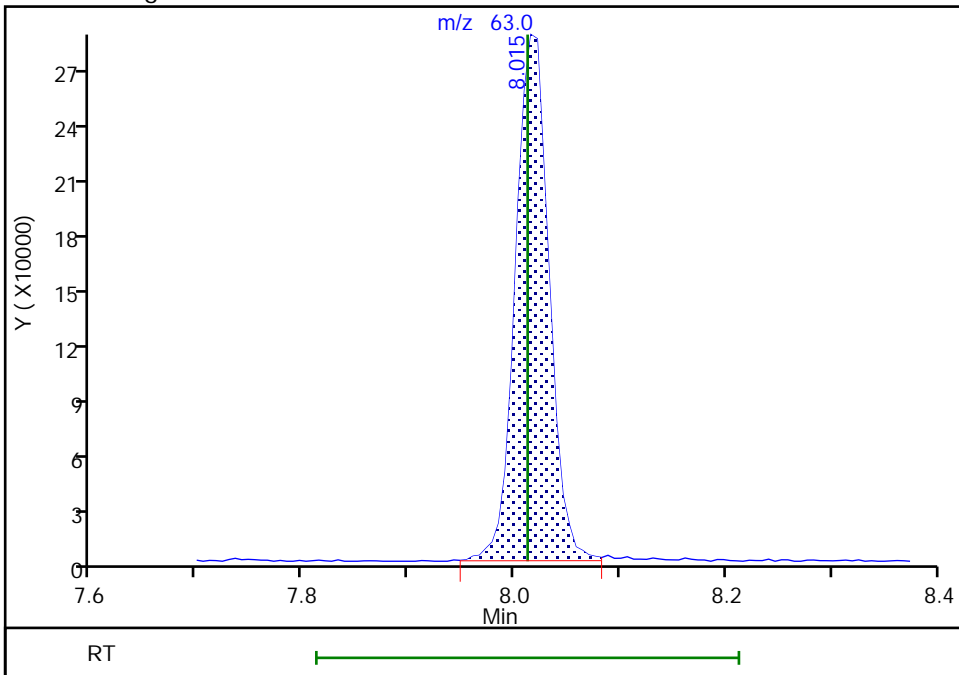
RT: 8.11  
Area: 2597  
Amount: 0.854278  
Amount Units: ng

Processing Integration Results



RT: 8.02  
Area: 630944  
Amount: 170.9184  
Amount Units: ng

Manual Integration Results



Eurofins TestAmerica, Pittsburgh

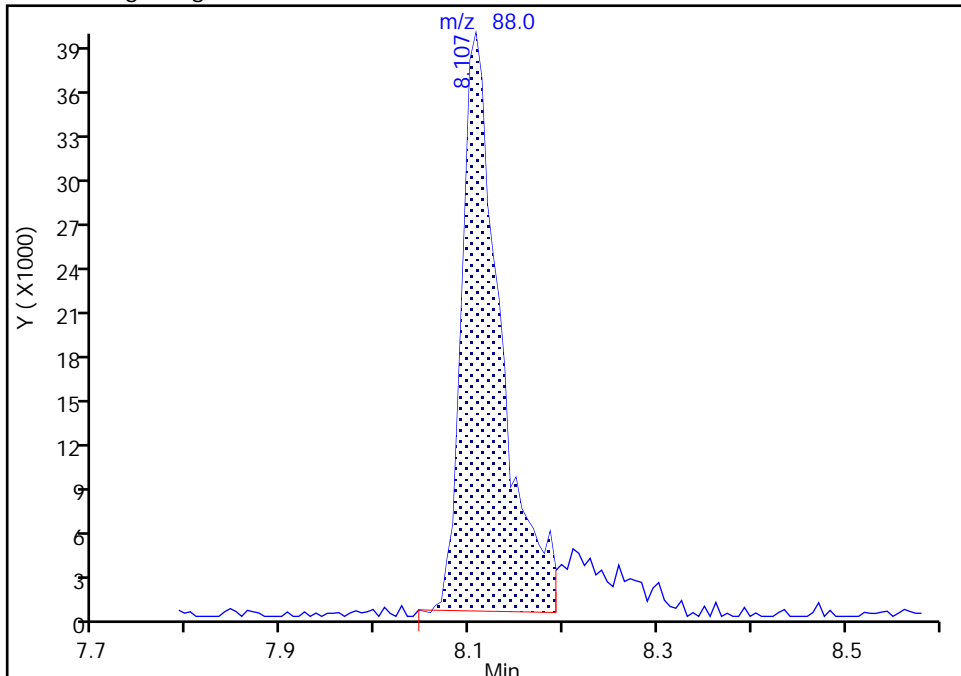
Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123109.D  
Injection Date: 31-Dec-2019 15:08:30 Instrument ID: CHHP6  
Lims ID: IC VSTD35  
Client ID:  
Operator ID: 433269 ALS Bottle#: 9 Worklist Smp#: 9  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
Column: DB-624 (0.18 mm) Detector: MS SCAN

65 1,4-Dioxane, CAS: 123-91-1

Signal: 1

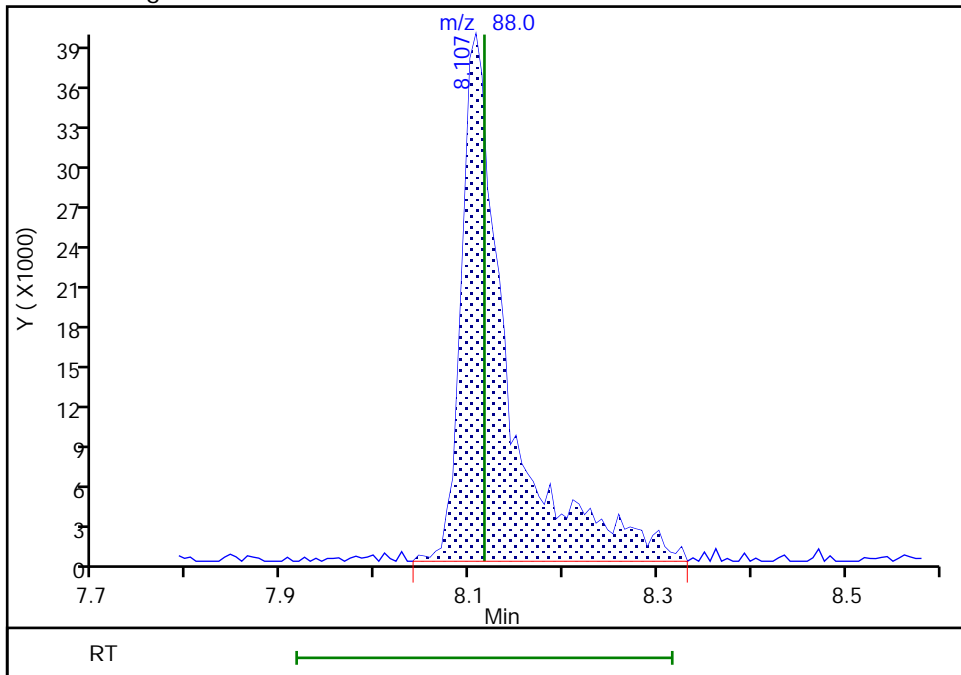
RT: 8.11  
Area: 113151  
Amount: 2843.3017  
Amount Units: ng

Processing Integration Results



RT: 8.11  
Area: 136668  
Amount: 3401.9008  
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 31-Dec-2019 15:29:27  
Audit Action: Manually Integrated

Audit Reason: Peak Tail



Eurofins TestAmerica, Pittsburgh  
Target Compound Quantitation Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123110.D  
 Lims ID: IC VSTD40  
 Client ID:  
 Sample Type: IC Calib Level: 7  
 Inject. Date: 31-Dec-2019 15:36:30 ALS Bottle#: 10 Worklist Smp#: 10  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 180-0030232-010  
 Misc. Info.: IC VSTD40  
 Operator ID: 433269 Instrument ID: CHHP6  
 Sublist: chrom-MSVOA\_LL\_CHHP6\*sub27  
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\MSVOA\_LL\_CHHP6.m  
 Limit Group: VOA 8260C\_D ICAL  
 Last Update: 31-Dec-2019 19:24:25 Calib Date: 31-Dec-2019 16:03:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123111.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0338

First Level Reviewer: bowieh

Date: 31-Dec-2019 16:37:49

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.380	4.381	0.000	94	230942	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.355	7.355	0.000	95	724566	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.464	10.458	0.006	82	188049	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.806	12.806	0.000	92	311534	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.631	6.631	0.000	96	652804	200.0	199.9	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	7.002	7.002	0.000	97	677569	200.0	199.4	
\$ 7 Toluene-d8 (Surr)	98	9.004	9.004	0.000	92	2841771	200.0	204.0	
\$ 8 4-Bromofluorobenzene (Surr	95	11.644	11.644	0.000	0	1013057	200.0	203.6	
11 Dichlorodifluoromethane	85	1.649	1.643	0.006	99	916957	200.0	183.9	
12 Chloromethane	50	1.868	1.862	0.006	99	1123198	200.0	203.4	
14 Butadiene	39	1.984	1.990	-0.006	91	974729	200.0	200.6	
13 Vinyl chloride	62	1.990	1.996	-0.006	68	975168	200.0	205.2	
15 Bromomethane	94	2.318	2.324	-0.006	92	602355	200.0	198.7	
16 Chloroethane	64	2.452	2.452	0.000	99	696474	200.0	201.3	
17 Dichlorofluoromethane	67	2.732	2.732	0.000	97	1419011	200.0	200.3	
18 Trichlorofluoromethane	101	2.750	2.762	-0.012	88	1289463	200.0	195.6	
20 Ethyl ether	59	3.121	3.121	0.000	95	745276	200.0	216.0	
22 1,1-Dichloroethene	96	3.419	3.425	-0.006	97	691106	200.0	199.2	
23 1,1,2-Trichloro-1,2,2-trif	101	3.480	3.498	-0.018	90	750543	200.0	195.9	
24 Acetone	43	3.529	3.529	0.000	100	762803	400.0	431.3	
25 Iodomethane	142	3.626	3.650	-0.024	97	1343071	200.0	202.6	
26 Carbon disulfide	76	3.717	3.723	-0.006	100	1705694	200.0	218.5	
29 3-Chloro-1-propene	76	4.009	4.009	0.000	92	430902	200.0	218.7	
30 Methyl acetate	43	4.040	4.040	0.000	99	1155287	400.0	418.2	
31 Methylene Chloride	84	4.234	4.228	0.006	97	807455	200.0	211.8	
32 2-Methyl-2-propanol	59	4.502	4.508	-0.006	94	531756	2000.0	2101.6	
33 Acrylonitrile	53	4.618	4.618	0.000	98	3061635	2000.0	2151.0	
34 trans-1,2-Dichloroethene	96	4.636	4.642	-0.006	97	791512	200.0	200.7	
35 Methyl tert-butyl ether	73	4.666	4.666	0.000	98	1654669	200.0	216.6	
36 Hexane	57	5.056	5.062	-0.006	93	1230742	200.0	206.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
37 1,1-Dichloroethane	63	5.275	5.275	0.000	96	1331753	200.0	209.2	
42 2,2-Dichloropropane	97	6.023	6.017	0.006	93	158842	200.0	194.6	
43 cis-1,2-Dichloroethene	96	6.023	6.023	0.000	81	871555	200.0	205.2	
44 2-Butanone (MEK)	43	6.041	6.041	0.000	100	942102	400.0	423.5	
48 Chlorobromomethane	128	6.309	6.309	0.000	95	460378	200.0	210.7	
49 Tetrahydrofuran	42	6.333	6.327	0.006	0	480360	400.0	456.3	
50 Chloroform	83	6.449	6.449	0.000	94	1218729	200.0	212.3	
51 1,1,1-Trichloroethane	97	6.607	6.607	0.000	98	1006378	200.0	205.9	
52 Cyclohexane	56	6.674	6.674	0.000	91	1578114	200.0	210.9	
53 Carbon tetrachloride	117	6.777	6.783	-0.006	97	872031	200.0	212.1	
54 1,1-Dichloropropene	75	6.796	6.796	0.000	93	984900	200.0	202.5	
55 Isobutyl alcohol	41	7.002	7.002	0.000	93	551624	5000.0	5445.7	
56 Benzene	78	7.009	7.009	-0.001	97	3223274	200.0	205.8	
57 1,2-Dichloroethane	62	7.088	7.088	0.000	96	927515	200.0	215.1	
59 n-Heptane	43	7.367	7.367	0.000	94	1003903	200.0	213.2	
61 Trichloroethene	130	7.739	7.739	-0.001	93	952603	200.0	205.2	
63 Methylcyclohexane	83	7.976	7.976	0.000	90	1353308	200.0	213.9	
64 1,2-Dichloropropane	63	8.018	8.012	0.006	94	780441	200.0	212.9	a
67 Dibromomethane	93	8.104	8.104	0.000	88	415901	200.0	209.7	
65 1,4-Dioxane	88	8.110	8.116	-0.006	39	143078	4000.0	3586.5	
68 Dichlorobromomethane	83	8.298	8.298	0.000	98	792681	200.0	231.3	
71 cis-1,3-Dichloropropene	75	8.742	8.742	0.000	93	1082176	200.0	244.2	
72 4-Methyl-2-pentanone (MIBK)	43	8.900	8.901	0.000	97	1554470	400.0	466.2	
73 Toluene	91	9.077	9.077	0.000	98	3650800	200.0	206.0	
74 trans-1,3-Dichloropropene	75	9.320	9.320	0.000	95	924753	200.0	238.7	
75 Ethyl methacrylate	69	9.381	9.387	-0.006	92	918501	200.0	241.5	
76 1,1,2-Trichloroethane	97	9.521	9.515	0.006	89	663304	200.0	205.7	
77 Tetrachloroethene	164	9.588	9.588	0.000	95	868173	200.0	198.3	
78 1,3-Dichloropropane	76	9.673	9.673	0.000	95	1113156	200.0	208.0	
79 2-Hexanone	43	9.734	9.740	-0.006	97	1321589	400.0	460.2	
81 Chlorodibromomethane	129	9.892	9.892	0.000	91	653447	200.0	240.0	
82 Ethylene Dibromide	107	10.002	10.002	0.000	98	685800	200.0	215.5	
84 Chlorobenzene	112	10.488	10.494	-0.006	97	2451147	200.0	207.5	
86 1,1,1,2-Tetrachloroethane	131	10.586	10.580	0.006	94	769950	200.0	221.9	
87 Ethylbenzene	106	10.592	10.592	0.000	98	1383168	200.0	204.6	
88 m-Xylene & p-Xylene	106	10.719	10.719	0.000	98	1735830	200.0	214.2	
89 o-Xylene	106	11.103	11.103	0.000	95	1656864	200.0	214.9	
90 Styrene	104	11.127	11.121	0.006	96	2736476	200.0	224.0	
91 Bromoform	173	11.303	11.310	-0.007	99	406463	200.0	269.3	
93 Isopropylbenzene	105	11.468	11.468	0.000	94	4156570	200.0	215.2	
96 1,1,2,2-Tetrachloroethane	83	11.784	11.784	0.000	75	734650	200.0	213.8	
95 Bromobenzene	156	11.784	11.784	0.000	85	1058314	200.0	206.1	
97 trans-1,4-Dichloro-2-buten	53	11.821	11.821	0.000	83	238271	200.0	223.8	
98 1,2,3-Trichloropropane	110	11.839	11.839	0.000	86	287574	200.0	211.5	
99 N-Propylbenzene	120	11.887	11.887	0.000	98	1243693	200.0	208.1	
100 2-Chlorotoluene	126	11.973	11.973	0.000	98	1004860	200.0	206.3	
102 1,3,5-Trimethylbenzene	105	12.070	12.070	0.000	95	3233042	200.0	216.2	
103 4-Chlorotoluene	126	12.100	12.100	0.000	96	1051737	200.0	208.2	
104 tert-Butylbenzene	119	12.386	12.386	0.000	90	2886195	200.0	215.8	
106 1,2,4-Trimethylbenzene	105	12.447	12.447	0.000	96	3215541	200.0	216.6	
108 sec-Butylbenzene	105	12.611	12.611	0.000	92	3830079	200.0	214.1	
109 1,3-Dichlorobenzene	146	12.727	12.727	0.000	97	1974781	200.0	206.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
110 4-Isopropyltoluene	119	12.763	12.764	-0.001	97	3403263	200.0	217.7	
111 1,4-Dichlorobenzene	146	12.830	12.830	0.000	97	1993400	200.0	205.0	
116 n-Butylbenzene	91	13.171	13.171	0.000	97	2450438	200.0	216.1	
117 1,2-Dichlorobenzene	146	13.189	13.189	0.000	99	1871699	200.0	208.7	
118 1,2-Dibromo-3-Chloropropan	75	13.980	13.980	0.000	88	97023	200.0	215.0	
122 1,2,4-Trichlorobenzene	180	14.801	14.801	0.000	94	914041	200.0	213.2	
123 Hexachlorobutadiene	225	14.947	14.947	0.000	93	415536	200.0	202.5	
124 Naphthalene	128	15.069	15.069	0.000	96	2315221	200.0	233.4	
125 1,2,3-Trichlorobenzene	180	15.294	15.300	-0.006	96	766108	200.0	213.6	
S 131 Xylenes, Total	106				0		400.0	429.1	
S 130 1,2-Dichloroethene, Total	96				0		400.0	405.9	
S 154 Total BTEX	1				0			1045.5	
S 132 1,3-Dichloropropene, Total	1				0		400.0	482.9	

**QC Flag Legend**

Review Flags

a - User Assigned ID

**Reagents:**

VOA8260SURR\_00102

Amount Added: 8.00

Units: uL

VOA8260VOAPRI\_00385

Amount Added: 8.00

Units: uL

voaWKetmix1st\_00021

Amount Added: 8.00

Units: uL

VOA8260INT\_00102

Amount Added: 2.00

Units: uL

Run Reagent

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123110.D

Injection Date: 31-Dec-2019 15:36:30

Instrument ID: CHHP6

Operator ID: 433269

Lims ID: IC VSTD40

Worklist Smp#: 10

Client ID:

Purge Vol: 5.000 mL

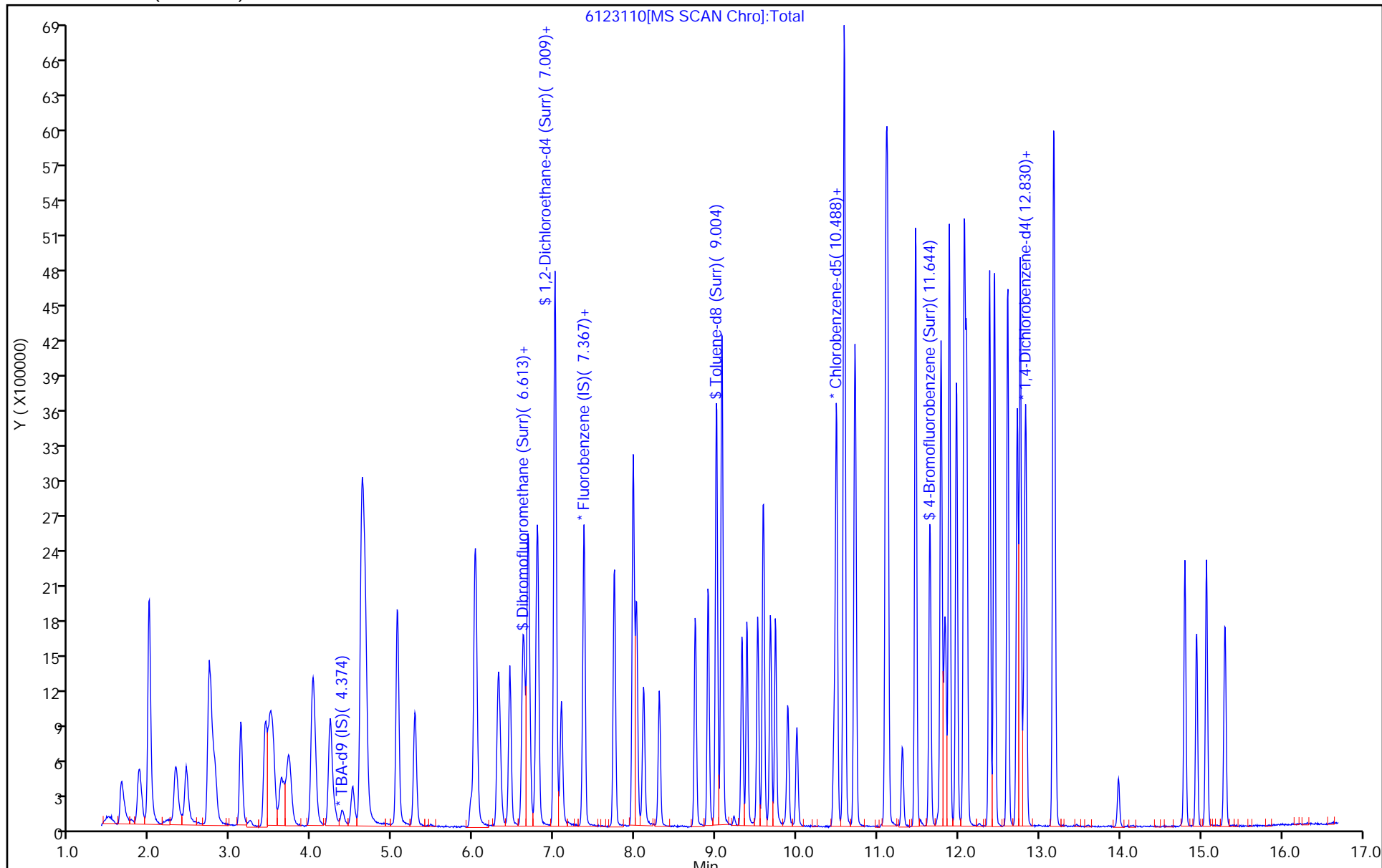
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: MSVOA\_LL\_CHHP6

Limit Group: VOA 8260C\_D ICAL

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Pittsburgh

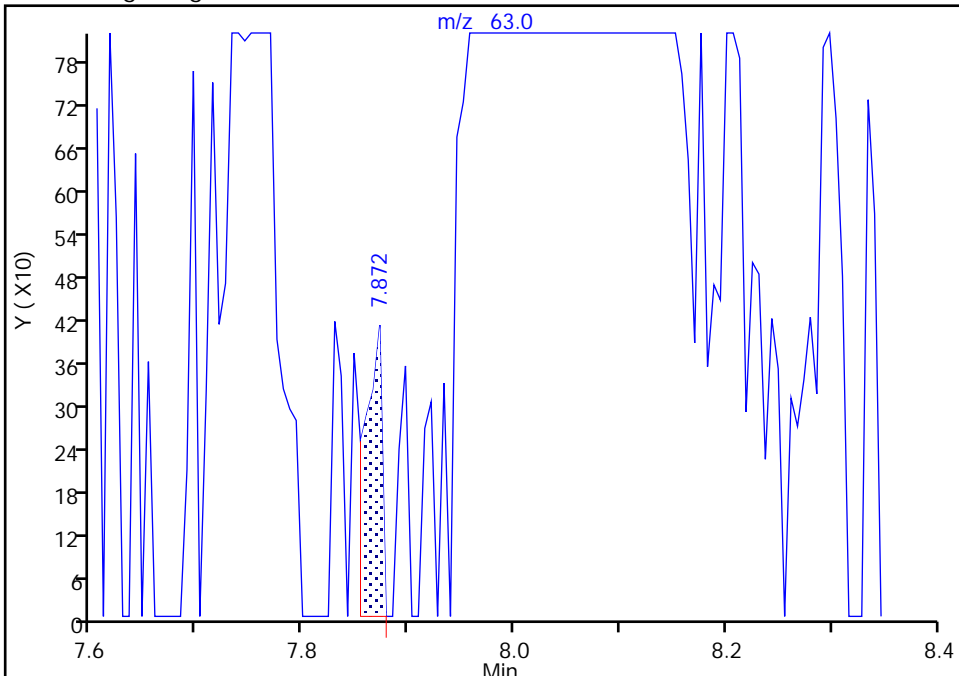
Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123110.D  
Injection Date: 31-Dec-2019 15:36:30 Instrument ID: CHHP6  
Lims ID: IC VSTD40  
Client ID:  
Operator ID: 433269 ALS Bottle#: 10 Worklist Smp#: 10  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
Column: DB-624 (0.18 mm) Detector: MS SCAN

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

Signal: 1

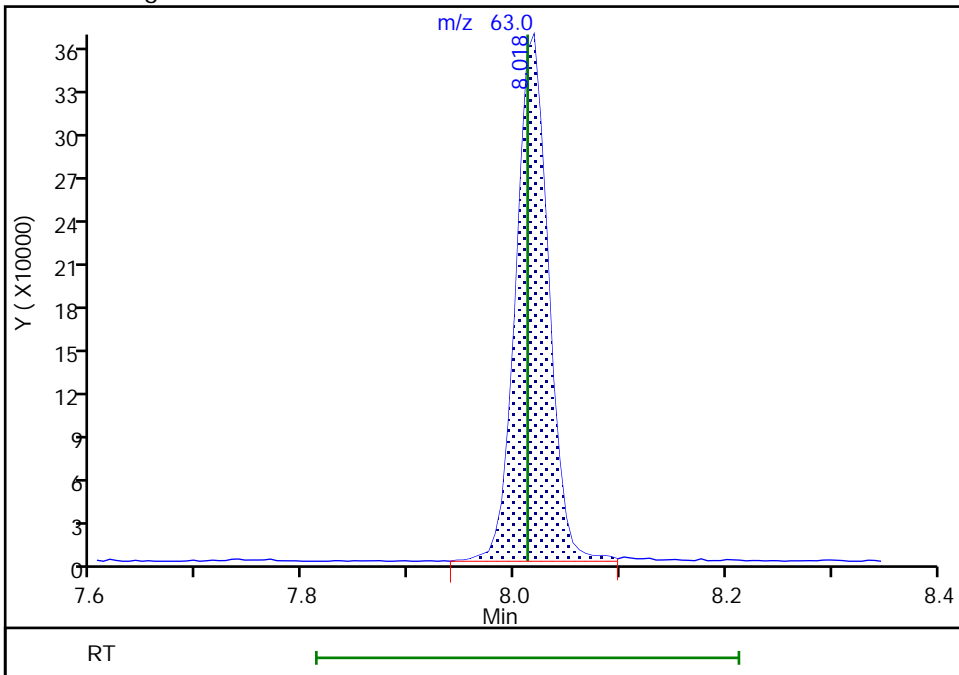
RT: 7.87  
Area: 456  
Amount: 0.147232  
Amount Units: ng

Processing Integration Results



RT: 8.02  
Area: 780441  
Amount: 212.9054  
Amount Units: ng

Manual Integration Results



Eurofins TestAmerica, Pittsburgh  
Target Compound Quantitation Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123111.D  
 Lims ID: IC VSTD50  
 Client ID:  
 Sample Type: IC Calib Level: 8  
 Inject. Date: 31-Dec-2019 16:03:30 ALS Bottle#: 11 Worklist Smp#: 11  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 180-0030232-011  
 Misc. Info.: IC VSTD50  
 Operator ID: 433269 Instrument ID: CHHP6  
 Sublist: chrom-MSVOA\_LL\_CHHP6\*sub27  
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\MSVOA\_LL\_CHHP6.m  
 Limit Group: VOA 8260C\_D ICAL  
 Last Update: 31-Dec-2019 19:24:33 Calib Date: 31-Dec-2019 16:03:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123111.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0338

First Level Reviewer: bowieh

Date: 31-Dec-2019 18:53:19

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.381	4.381	0.001	92	215668	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.356	7.355	0.001	94	720242	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.459	10.458	0.001	84	185057	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.807	12.806	0.001	92	294459	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.632	6.631	0.001	96	764032	250.0	235.4	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	7.003	7.002	0.001	94	789128	250.0	233.6	
\$ 7 Toluene-d8 (Surr)	98	9.005	9.004	0.001	93	3319437	250.0	242.1	
\$ 8 4-Bromofluorobenzene (Surr	95	11.645	11.644	0.001	0	1180364	250.0	241.1	
11 Dichlorodifluoromethane	85	1.650	1.643	0.007	100	1091360	250.0	220.3	
12 Chloromethane	50	1.863	1.862	0.001	99	1362518	250.0	248.2	
14 Butadiene	39	1.985	1.990	-0.005	91	1140642	250.0	236.2	
13 Vinyl chloride	62	1.985	1.996	-0.011	68	1147277	250.0	242.9	
15 Bromomethane	94	2.319	2.324	-0.005	92	672273	250.0	223.1	
16 Chloroethane	64	2.447	2.452	-0.005	99	790311	250.0	229.7	
17 Dichlorofluoromethane	67	2.727	2.732	-0.005	98	1736455	250.0	246.6	
18 Trichlorofluoromethane	101	2.757	2.762	-0.005	96	1538449	250.0	234.8	
20 Ethyl ether	59	3.122	3.121	0.001	95	889829	250.0	259.5	
22 1,1-Dichloroethene	96	3.426	3.425	0.001	99	825504	250.0	239.3	
23 1,1,2-Trichloro-1,2,2-trif	101	3.481	3.498	-0.017	90	873805	250.0	229.5	
24 Acetone	43	3.530	3.529	0.001	100	849283	500.0	483.1	
25 Iodomethane	142	3.633	3.650	-0.017	96	1637535	250.0	248.6	
26 Carbon disulfide	76	3.718	3.723	-0.005	100	2164704	250.0	279.0	
29 3-Chloro-1-propene	76	4.010	4.009	0.001	92	513084	250.0	262.0	
30 Methyl acetate	43	4.035	4.040	-0.005	99	1374276	500.0	500.5	
31 Methylene Chloride	84	4.223	4.228	-0.005	97	915140	250.0	242.4	
32 2-Methyl-2-propanol	59	4.509	4.508	0.001	95	613067	2500.0	2594.5	
33 Acrylonitrile	53	4.619	4.618	0.001	99	3635768	2500.0	2569.7	
34 trans-1,2-Dichloroethene	96	4.643	4.642	0.001	97	942001	250.0	240.3	
35 Methyl tert-butyl ether	73	4.667	4.666	0.001	98	1959234	250.0	258.0	
36 Hexane	57	5.057	5.062	-0.005	95	1420566	250.0	239.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
37 1,1-Dichloroethane	63	5.276	5.275	0.001	97	1540888	250.0	243.5	
42 2,2-Dichloropropane	97	6.012	6.017	-0.005	63	198958	250.0	245.2	
43 cis-1,2-Dichloroethene	96	6.018	6.023	-0.005	85	1019195	250.0	241.4	
44 2-Butanone (MEK)	43	6.036	6.041	-0.005	99	1130655	500.0	511.3	
48 Chlorobromomethane	128	6.304	6.309	-0.005	95	528655	250.0	243.4	
49 Tetrahydrofuran	42	6.328	6.327	0.001	0	557253	500.0	533.3	
50 Chloroform	83	6.450	6.449	0.001	94	1418155	250.0	249.2	
51 1,1,1-Trichloroethane	97	6.608	6.607	0.001	98	1161504	250.0	239.0	
52 Cyclohexane	56	6.675	6.674	0.001	91	1810380	250.0	243.4	
53 Carbon tetrachloride	117	6.778	6.783	-0.005	96	1027997	250.0	251.5	
54 1,1-Dichloropropene	75	6.797	6.796	0.001	93	1172355	250.0	242.5	
55 Isobutyl alcohol	41	7.003	7.002	0.001	89	660935	6250.0	6564.0	
56 Benzene	78	7.009	7.009	0.000	97	3812089	250.0	244.9	
57 1,2-Dichloroethane	62	7.089	7.088	0.001	96	1061196	250.0	247.5	
59 n-Heptane	43	7.368	7.367	0.001	94	1149604	250.0	245.6	
61 Trichloroethene	130	7.739	7.739	0.000	93	1111982	250.0	241.0	
63 Methylcyclohexane	83	7.977	7.976	0.001	91	1553253	250.0	247.0	
64 1,2-Dichloropropane	63	8.019	8.012	0.007	96	930749	250.0	255.4	
67 Dibromomethane	93	8.105	8.104	0.000	87	477428	250.0	242.1	
65 1,4-Dioxane	88	8.111	8.116	-0.005	37	196812	5000.0	4963.1	M
68 Dichlorobromomethane	83	8.299	8.298	0.001	98	941181	250.0	276.3	
71 cis-1,3-Dichloropropene	75	8.743	8.742	0.001	94	1263238	250.0	286.8	
72 4-Methyl-2-pentanone (MIBK)	43	8.901	8.901	0.001	97	1835296	500.0	559.4	
73 Toluene	91	9.072	9.077	-0.005	99	4301627	250.0	246.7	
74 trans-1,3-Dichloropropene	75	9.321	9.320	0.001	96	1106798	250.0	290.3	
75 Ethyl methacrylate	69	9.382	9.387	-0.005	93	1064404	250.0	284.4	
76 1,1,2-Trichloroethane	97	9.516	9.515	0.001	88	772306	250.0	243.4	
77 Tetrachloroethene	164	9.583	9.588	-0.005	95	993733	250.0	230.6	
78 1,3-Dichloropropane	76	9.674	9.673	0.001	94	1324887	250.0	251.6	
79 2-Hexanone	43	9.735	9.740	-0.005	98	1563960	500.0	553.4	
81 Chlorodibromomethane	129	9.887	9.892	-0.005	90	771661	250.0	288.0	
82 Ethylene Dibromide	107	9.996	10.002	-0.006	100	800655	250.0	255.7	
84 Chlorobenzene	112	10.489	10.494	-0.005	97	2839821	250.0	244.3	
86 1,1,1,2-Tetrachloroethane	131	10.580	10.580	0.000	95	897246	250.0	262.8	
87 Ethylbenzene	106	10.593	10.592	0.001	97	1623783	250.0	244.1	
88 m-Xylene & p-Xylene	106	10.720	10.719	0.001	98	2028296	250.0	254.3	
89 o-Xylene	106	11.104	11.103	0.001	95	1902336	250.0	250.7	
90 Styrene	104	11.122	11.121	0.001	96	3177293	250.0	264.3	
91 Bromoform	173	11.304	11.310	-0.006	98	493041	250.0	331.9	
93 Isopropylbenzene	105	11.469	11.468	0.001	94	4816430	250.0	253.4	
95 Bromobenzene	156	11.785	11.784	0.001	85	1203489	250.0	247.9	
96 1,1,2,2-Tetrachloroethane	83	11.785	11.784	0.001	75	854871	250.0	252.8	
97 trans-1,4-Dichloro-2-buten	53	11.822	11.821	0.001	88	282625	250.0	280.8	
98 1,2,3-Trichloropropane	110	11.840	11.839	0.001	85	327136	250.0	255.2	
99 N-Propylbenzene	120	11.888	11.887	0.001	98	1422856	250.0	251.9	
100 2-Chlorotoluene	126	11.980	11.973	0.007	98	1157073	250.0	251.3	
102 1,3,5-Trimethylbenzene	105	12.071	12.070	0.001	94	3724706	250.0	263.5	
103 4-Chlorotoluene	126	12.101	12.100	0.001	95	1198983	250.0	251.1	
104 tert-Butylbenzene	119	12.387	12.386	0.001	90	3268999	250.0	258.6	
106 1,2,4-Trimethylbenzene	105	12.448	12.447	0.001	95	3695765	250.0	263.4	
108 sec-Butylbenzene	105	12.612	12.611	0.001	92	4368992	250.0	258.4	
109 1,3-Dichlorobenzene	146	12.728	12.727	0.001	97	2237699	250.0	247.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
110 4-Isopropyltoluene	119	12.764	12.764	0.000	97	3854847	250.0	260.9	
111 1,4-Dichlorobenzene	146	12.831	12.830	0.001	97	2307469	250.0	251.1	
116 n-Butylbenzene	91	13.172	13.171	0.001	97	2787099	250.0	260.0	
117 1,2-Dichlorobenzene	146	13.190	13.189	0.001	99	2132635	250.0	251.6	
118 1,2-Dibromo-3-Chloropropan	75	13.975	13.980	-0.005	90	113785	250.0	266.8	
122 1,2,4-Trichlorobenzene	180	14.802	14.801	0.001	95	1083166	250.0	267.2	
123 Hexachlorobutadiene	225	14.948	14.947	0.001	90	495310	250.0	255.3	
124 Naphthalene	128	15.070	15.069	0.001	96	2763484	250.0	294.7	
125 1,2,3-Trichlorobenzene	180	15.295	15.300	-0.005	97	931787	250.0	274.9	
S 131 Xylenes, Total	106				0		500.0	505.1	
S 130 1,2-Dichloroethene, Total	96				0		500.0	481.7	
S 154 Total BTEX	1				0			1240.7	
S 132 1,3-Dichloropropene, Total	1				0		500.0	577.1	

**QC Flag Legend**

Review Flags

M - Manually Integrated

**Reagents:**

VOA8260SURR\_00102

Amount Added: 10.00

Units: uL

VOA8260VOAPRI\_00385

Amount Added: 10.00

Units: uL

voaWKetmix1st\_00021

Amount Added: 10.00

Units: uL

VOA8260INT\_00102

Amount Added: 2.00

Units: uL

Run Reagent



Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123111.D

Injection Date: 31-Dec-2019 16:03:30

Instrument ID: CHHP6

Operator ID: 433269

Lims ID: IC VSTD50

Worklist Smp#: 11

Client ID:

Purge Vol: 5.000 mL

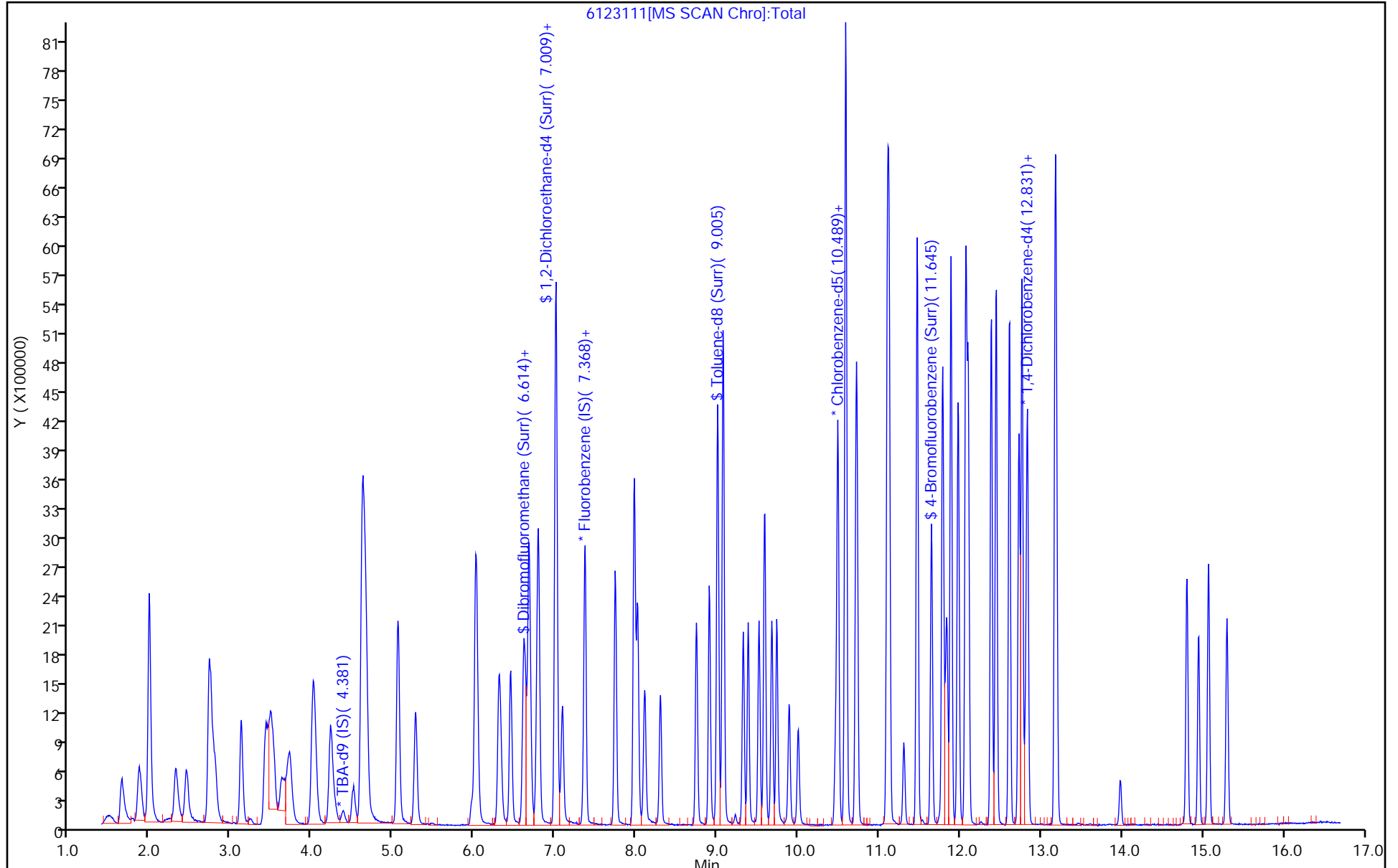
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: MSVOA\_LL\_CHHP6

Limit Group: VOA 8260C\_D ICAL

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Pittsburgh

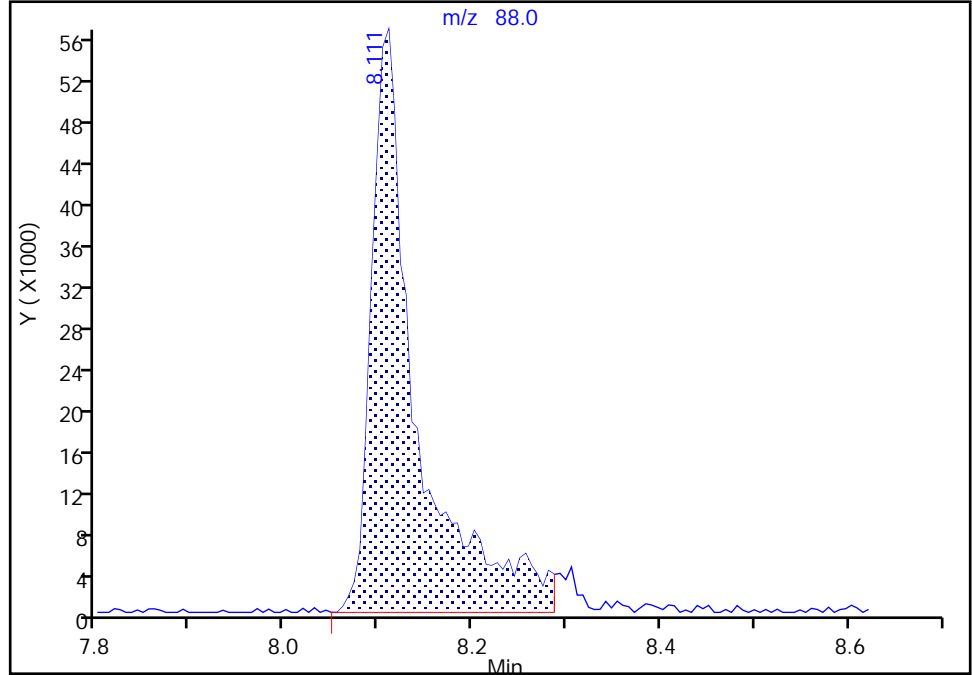
Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123111.D  
Injection Date: 31-Dec-2019 16:03:30 Instrument ID: CHHP6  
Lims ID: IC VSTD50  
Client ID:  
Operator ID: 433269 ALS Bottle#: 11 Worklist Smp#: 11  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
Column: DB-624 (0.18 mm) Detector: MS SCAN

65 1,4-Dioxane, CAS: 123-91-1

Signal: 1

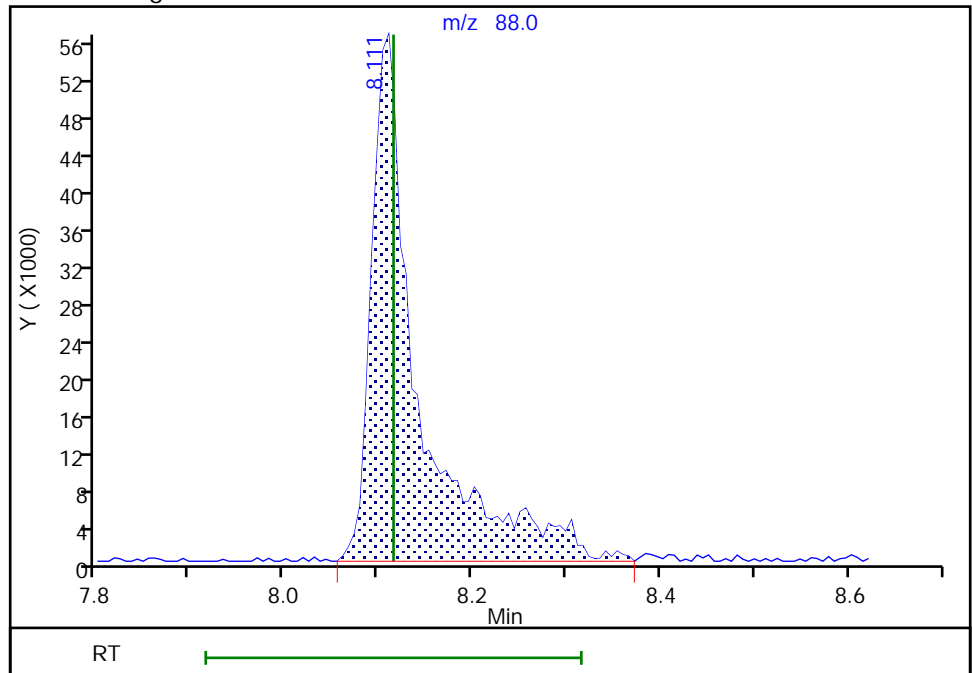
RT: 8.11  
Area: 189652  
Amount: 4804.2445  
Amount Units: ng

Processing Integration Results



RT: 8.11  
Area: 196812  
Amount: 4963.1160  
Amount Units: ng

Manual Integration Results



FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-101459-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 180-304996/3 Calibration Date: 01/25/2020 11:31  
 Instrument ID: CHHP6 Calib Start Date: 12/13/2019 14:48  
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 12/13/2019 17:57  
 Lab File ID: 6012503A.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
Acrolein	Ave	0.0475	0.0519	0.0100	32.7	30.0	9.1	20.0
Vinyl acetate	Ave	0.5169	0.2979	0.0100	5.76	10.0	-42.4*	20.0

Eurofins TestAmerica, Pittsburgh  
Target Compound Quantitation Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012503A.D  
 Lims ID: CCVIS  
 Client ID:  
 Sample Type: CCVIS  
 Inject. Date: 25-Jan-2020 11:31:30 ALS Bottle#: 3 Worklist Smp#: 3  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 180-0030512-003  
 Misc. Info.: CCVIS  
 Operator ID: 433269 Instrument ID: CHHP6  
 Sublist: chrom-MSVOA\_LL\_CHHP6\*sub84  
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\MSVOA\_LL\_CHHP6.m  
 Limit Group: VOA 8260C\_D ICAL  
 Last Update: 25-Jan-2020 16:18:50 Calib Date: 31-Dec-2019 16:03:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123111.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0321

First Level Reviewer: bowieh

Date: 25-Jan-2020 16:18:50

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.319	4.319	0.000	90	129303	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.306	7.306	0.000	99	546647	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.408	10.408	0.000	83	142691	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.757	12.757	0.000	92	239511	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.582	6.582	0.000	95	125772	50.0	51.1	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.953	6.953	0.000	94	132990	50.0	51.9	
\$ 7 Toluene-d8 (Surr)	98	8.954	8.954	0.000	92	554426	50.0	52.5	
\$ 8 4-Bromofluorobenzene (Surr	95	11.595	11.595	0.000	0	179504	50.0	47.5	
11 Dichlorodifluoromethane	85	1.624	1.624	0.000	99	216273	50.0	57.5	
12 Chloromethane	50	1.837	1.837	0.000	99	279926	50.0	67.2	
13 Vinyl chloride	62	1.952	1.952	0.000	63	231148	50.0	64.5	
14 Butadiene	39	1.965	1.965	0.000	91	241844	50.0	66.0	
15 Bromomethane	94	2.287	2.287	0.000	93	146033	50.0	63.8	
16 Chloroethane	64	2.421	2.421	0.000	99	164174	50.0	62.9	
17 Dichlorofluoromethane	67	2.689	2.689	0.000	97	329689	50.0	61.7	
18 Trichlorofluoromethane	101	2.719	2.719	0.000	82	298425	50.0	60.0	
20 Ethyl ether	59	3.078	3.078	0.000	94	163900	50.0	63.0	
21 Acrolein	56	3.260	3.260	0.000	100	85031	150.0	163.7	
22 1,1-Dichloroethene	96	3.370	3.370	0.000	97	146614	50.0	56.0	
23 1,1,2-Trichloro-1,2,2-trif	101	3.437	3.437	0.000	88	166463	50.0	57.6	
24 Acetone	43	3.473	3.473	0.000	100	133768	100.0	100.3	
25 Iodomethane	142	3.565	3.565	0.000	96	261240	50.0	52.2	
26 Carbon disulfide	76	3.662	3.662	0.000	99	338497	50.0	57.5	
29 3-Chloro-1-propene	76	3.942	3.942	0.000	91	75607	50.0	50.9	
30 Methyl acetate	43	3.972	3.972	0.000	99	268869	100.0	129.0	
31 Methylene Chloride	84	4.155	4.155	0.000	99	153224	50.0	48.1	
32 2-Methyl-2-propanol	59	4.447	4.447	0.000	92	79374	500.0	560.3	
33 Acrylonitrile	53	4.556	4.556	0.000	99	612655	500.0	570.5	
34 trans-1,2-Dichloroethene	96	4.574	4.574	0.000	99	164014	50.0	55.1	
35 Methyl tert-butyl ether	73	4.611	4.611	0.000	97	291437	50.0	50.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	5.000	5.000	0.000	93	267585	50.0	59.4	
37 1,1-Dichloroethane	63	5.219	5.219	0.000	97	264936	50.0	55.2	
38 Vinyl acetate	43	5.280	5.280	0.000	98	162844	50.0	28.8	
43 cis-1,2-Dichloroethene	96	5.967	5.967	0.000	82	165610	50.0	51.7	
42 2,2-Dichloropropane	97	5.967	5.967	0.000	62	32230	50.0	52.3	
44 2-Butanone (MEK)	43	5.980	5.980	0.000	98	177413	100.0	105.7	a
48 Chlorobromomethane	128	6.247	6.247	0.000	97	80518	50.0	48.8	
49 Tetrahydrofuran	42	6.272	6.272	0.000	0	90885	100.0	111.3	
50 Chloroform	83	6.393	6.393	0.000	95	241350	50.0	52.8	
51 1,1,1-Trichloroethane	97	6.558	6.558	0.000	99	192708	50.0	52.3	
52 Cyclohexane	56	6.625	6.625	0.000	94	325851	50.0	57.7	
53 Carbon tetrachloride	117	6.722	6.722	0.000	95	181392	50.0	58.5	
54 1,1-Dichloropropene	75	6.740	6.740	0.000	91	199845	50.0	54.5	
55 Isobutyl alcohol	41	6.953	6.953	0.000	67	95992	1250.0	1256.1	
56 Benzene	78	6.959	6.959	0.000	97	633599	50.0	53.6	
57 1,2-Dichloroethane	62	7.038	7.038	0.000	95	176091	50.0	54.1	
59 n-Heptane	43	7.318	7.318	0.000	95	199156	50.0	56.1	
61 Trichloroethene	130	7.689	7.689	0.000	92	181041	50.0	51.7	
63 Methylcyclohexane	83	7.926	7.926	0.000	94	267942	50.0	56.1	
64 1,2-Dichloropropane	63	7.963	7.963	0.000	93	156221	50.0	56.5	
67 Dibromomethane	93	8.048	8.048	0.000	90	75596	50.0	50.5	
65 1,4-Dioxane	88	8.060	8.060	0.000	37	28081	1000.0	933.0	M
68 Dichlorobromomethane	83	8.249	8.249	0.000	98	140109	50.0	54.2	
70 2-Chloroethyl vinyl ether	63	8.553	8.553	0.000	93	117021	100.0	74.3	
71 cis-1,3-Dichloropropene	75	8.699	8.699	0.000	92	184195	50.0	55.1	
72 4-Methyl-2-pentanone (MIBK)	43	8.857	8.857	0.000	99	279987	100.0	110.7	
73 Toluene	91	9.021	9.021	0.000	99	709552	50.0	52.8	
74 trans-1,3-Dichloropropene	75	9.277	9.277	0.000	95	139124	50.0	47.3	
75 Ethyl methacrylate	69	9.338	9.338	0.000	92	132531	50.0	45.9	
76 1,1,2-Trichloroethane	97	9.472	9.472	0.000	91	124996	50.0	51.1	
77 Tetrachloroethene	164	9.538	9.538	0.000	97	164872	50.0	49.6	
78 1,3-Dichloropropane	76	9.624	9.624	0.000	96	208358	50.0	51.3	
79 2-Hexanone	43	9.691	9.691	0.000	99	209735	100.0	96.2	
81 Chlorodibromomethane	129	9.843	9.843	0.000	91	103005	50.0	49.9	
82 Ethylene Dibromide	107	9.952	9.952	0.000	97	121874	50.0	50.5	
84 Chlorobenzene	112	10.439	10.439	0.000	96	451608	50.0	50.4	
86 1,1,1,2-Tetrachloroethane	131	10.530	10.530	0.000	93	135987	50.0	51.6	
87 Ethylbenzene	106	10.542	10.542	0.000	98	253378	50.0	49.4	
88 m-Xylene & p-Xylene	106	10.670	10.670	0.000	98	317788	50.0	51.7	
89 o-Xylene	106	11.053	11.053	0.000	95	292376	50.0	50.0	
90 Styrene	104	11.078	11.078	0.000	96	472010	50.0	50.9	
91 Bromoform	173	11.254	11.254	0.000	98	61115	50.0	53.4	
93 Isopropylbenzene	105	11.424	11.424	0.000	94	749753	50.0	51.2	
95 Bromobenzene	156	11.735	11.735	0.000	86	187527	50.0	47.5	
96 1,1,2,2-Tetrachloroethane	83	11.741	11.741	0.000	78	141128	50.0	54.1	
97 trans-1,4-Dichloro-2-buten	53	11.771	11.771	0.000	72	41129	50.0	50.2	
98 1,2,3-Trichloropropane	110	11.789	11.789	0.000	86	56450	50.0	51.7	
99 N-Propylbenzene	120	11.838	11.838	0.000	98	235356	50.0	51.2	
100 2-Chlorotoluene	126	11.929	11.929	0.000	98	188102	50.0	50.2	
102 1,3,5-Trimethylbenzene	105	12.021	12.021	0.000	96	597217	50.0	51.9	
103 4-Chlorotoluene	126	12.051	12.051	0.000	97	206775	50.0	53.2	
104 tert-Butylbenzene	119	12.337	12.337	0.000	90	535414	50.0	52.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
106 1,2,4-Trimethylbenzene	105	12.398	12.398	0.000	95	596622	50.0	52.3	
108 sec-Butylbenzene	105	12.562	12.562	0.000	93	700488	50.0	50.9	
109 1,3-Dichlorobenzene	146	12.678	12.678	0.000	96	369184	50.0	50.2	
110 4-Isopropyltoluene	119	12.714	12.714	0.000	98	641706	50.0	53.4	
111 1,4-Dichlorobenzene	146	12.781	12.781	0.000	96	389143	50.0	52.1	
116 n-Butylbenzene	91	13.122	13.122	0.000	97	439104	50.0	50.4	
117 1,2-Dichlorobenzene	146	13.140	13.140	0.000	98	344859	50.0	50.0	
118 1,2-Dibromo-3-Chloropropan	75	13.931	13.931	0.000	80	16908	50.0	48.7	
122 1,2,4-Trichlorobenzene	180	14.752	14.752	0.000	95	146332	50.0	44.4	
123 Hexachlorobutadiene	225	14.898	14.898	0.000	94	80038	50.0	50.7	
124 Naphthalene	128	15.020	15.020	0.000	97	350940	50.0	46.0	
125 1,2,3-Trichlorobenzene	180	15.245	15.245	0.000	95	151006	50.0	54.8	
S 130 1,2-Dichloroethene, Total	96				0		100.0	106.8	
S 131 Xylenes, Total	106				0		100.0	101.7	
S 132 1,3-Dichloropropene, Total	1				0		100.0	102.4	

### QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

### Reagents:

VOAACRPRI_00024	Amount Added: 6.00	Units: uL	
voaWketmix1st_00022	Amount Added: 2.00	Units: uL	
VOA8260VOAPRI_00388	Amount Added: 2.00	Units: uL	
VOAVAPRI_00032	Amount Added: 2.00	Units: uL	
VOACEVE2ND_00035	Amount Added: 2.00	Units: uL	
VOA8260INT_00103	Amount Added: 2.00	Units: uL	Run Reagent
VOA8260SURR_00103	Amount Added: 2.00	Units: uL	Run Reagent

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012503A.D

Injection Date: 25-Jan-2020 11:31:30

Instrument ID: CHHP6

Operator ID: 433269

Lims ID: CCVIS

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

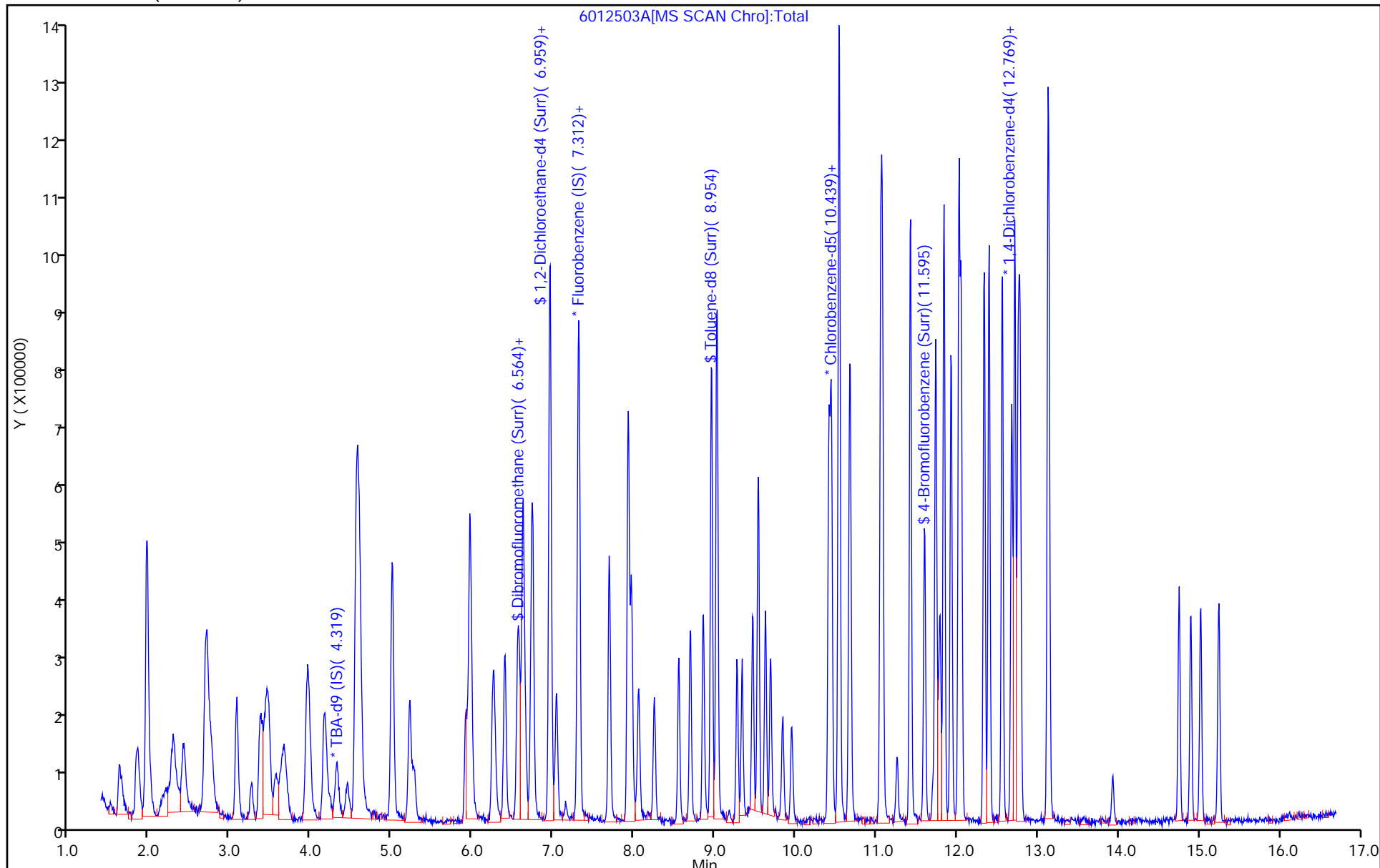
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: MSVOA\_LL\_CHHP6

Limit Group: VOA 8260C\_D ICAL

Column: DB-624 (0.18 mm)



FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-101459-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 180-304996/3 Calibration Date: 01/25/2020 11:31  
 Instrument ID: CHHP6 Calib Start Date: 12/21/2019 10:44  
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 12/21/2019 13:53  
 Lab File ID: 6012503A.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	0.1440	0.1070	0.0100	14.9	20.0	-25.7*	20.0



Eurofins TestAmerica, Pittsburgh  
Target Compound Quantitation Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012503A.D  
 Lims ID: CCVIS  
 Client ID:  
 Sample Type: CCVIS  
 Inject. Date: 25-Jan-2020 11:31:30 ALS Bottle#: 3 Worklist Smp#: 3  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 180-0030512-003  
 Misc. Info.: CCVIS  
 Operator ID: 433269 Instrument ID: CHHP6  
 Sublist: chrom-MSVOA\_LL\_CHHP6\*sub84  
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\MSVOA\_LL\_CHHP6.m  
 Limit Group: VOA 8260C\_D ICAL  
 Last Update: 25-Jan-2020 16:18:50 Calib Date: 31-Dec-2019 16:03:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123111.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0321

First Level Reviewer: bowieh

Date: 25-Jan-2020 16:18:50

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.319	4.319	0.000	90	129303	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.306	7.306	0.000	99	546647	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.408	10.408	0.000	83	142691	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.757	12.757	0.000	92	239511	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.582	6.582	0.000	95	125772	50.0	51.1	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.953	6.953	0.000	94	132990	50.0	51.9	
\$ 7 Toluene-d8 (Surr)	98	8.954	8.954	0.000	92	554426	50.0	52.5	
\$ 8 4-Bromofluorobenzene (Surr	95	11.595	11.595	0.000	0	179504	50.0	47.5	
11 Dichlorodifluoromethane	85	1.624	1.624	0.000	99	216273	50.0	57.5	
12 Chloromethane	50	1.837	1.837	0.000	99	279926	50.0	67.2	
13 Vinyl chloride	62	1.952	1.952	0.000	63	231148	50.0	64.5	
14 Butadiene	39	1.965	1.965	0.000	91	241844	50.0	66.0	
15 Bromomethane	94	2.287	2.287	0.000	93	146033	50.0	63.8	
16 Chloroethane	64	2.421	2.421	0.000	99	164174	50.0	62.9	
17 Dichlorofluoromethane	67	2.689	2.689	0.000	97	329689	50.0	61.7	
18 Trichlorofluoromethane	101	2.719	2.719	0.000	82	298425	50.0	60.0	
20 Ethyl ether	59	3.078	3.078	0.000	94	163900	50.0	63.0	
21 Acrolein	56	3.260	3.260	0.000	100	85031	150.0	163.7	
22 1,1-Dichloroethene	96	3.370	3.370	0.000	97	146614	50.0	56.0	
23 1,1,2-Trichloro-1,2,2-trif	101	3.437	3.437	0.000	88	166463	50.0	57.6	
24 Acetone	43	3.473	3.473	0.000	100	133768	100.0	100.3	
25 Iodomethane	142	3.565	3.565	0.000	96	261240	50.0	52.2	
26 Carbon disulfide	76	3.662	3.662	0.000	99	338497	50.0	57.5	
29 3-Chloro-1-propene	76	3.942	3.942	0.000	91	75607	50.0	50.9	
30 Methyl acetate	43	3.972	3.972	0.000	99	268869	100.0	129.0	
31 Methylene Chloride	84	4.155	4.155	0.000	99	153224	50.0	48.1	
32 2-Methyl-2-propanol	59	4.447	4.447	0.000	92	79374	500.0	560.3	
33 Acrylonitrile	53	4.556	4.556	0.000	99	612655	500.0	570.5	
34 trans-1,2-Dichloroethene	96	4.574	4.574	0.000	99	164014	50.0	55.1	
35 Methyl tert-butyl ether	73	4.611	4.611	0.000	97	291437	50.0	50.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	5.000	5.000	0.000	93	267585	50.0	59.4	
37 1,1-Dichloroethane	63	5.219	5.219	0.000	97	264936	50.0	55.2	
38 Vinyl acetate	43	5.280	5.280	0.000	98	162844	50.0	28.8	
43 cis-1,2-Dichloroethene	96	5.967	5.967	0.000	82	165610	50.0	51.7	
42 2,2-Dichloropropane	97	5.967	5.967	0.000	62	32230	50.0	52.3	
44 2-Butanone (MEK)	43	5.980	5.980	0.000	98	177413	100.0	105.7	a
48 Chlorobromomethane	128	6.247	6.247	0.000	97	80518	50.0	48.8	
49 Tetrahydrofuran	42	6.272	6.272	0.000	0	90885	100.0	111.3	
50 Chloroform	83	6.393	6.393	0.000	95	241350	50.0	52.8	
51 1,1,1-Trichloroethane	97	6.558	6.558	0.000	99	192708	50.0	52.3	
52 Cyclohexane	56	6.625	6.625	0.000	94	325851	50.0	57.7	
53 Carbon tetrachloride	117	6.722	6.722	0.000	95	181392	50.0	58.5	
54 1,1-Dichloropropene	75	6.740	6.740	0.000	91	199845	50.0	54.5	
55 Isobutyl alcohol	41	6.953	6.953	0.000	67	95992	1250.0	1256.1	
56 Benzene	78	6.959	6.959	0.000	97	633599	50.0	53.6	
57 1,2-Dichloroethane	62	7.038	7.038	0.000	95	176091	50.0	54.1	
59 n-Heptane	43	7.318	7.318	0.000	95	199156	50.0	56.1	
61 Trichloroethene	130	7.689	7.689	0.000	92	181041	50.0	51.7	
63 Methylcyclohexane	83	7.926	7.926	0.000	94	267942	50.0	56.1	
64 1,2-Dichloropropane	63	7.963	7.963	0.000	93	156221	50.0	56.5	
67 Dibromomethane	93	8.048	8.048	0.000	90	75596	50.0	50.5	
65 1,4-Dioxane	88	8.060	8.060	0.000	37	28081	1000.0	933.0	M
68 Dichlorobromomethane	83	8.249	8.249	0.000	98	140109	50.0	54.2	
70 2-Chloroethyl vinyl ether	63	8.553	8.553	0.000	93	117021	100.0	74.3	
71 cis-1,3-Dichloropropene	75	8.699	8.699	0.000	92	184195	50.0	55.1	
72 4-Methyl-2-pentanone (MIBK)	43	8.857	8.857	0.000	99	279987	100.0	110.7	
73 Toluene	91	9.021	9.021	0.000	99	709552	50.0	52.8	
74 trans-1,3-Dichloropropene	75	9.277	9.277	0.000	95	139124	50.0	47.3	
75 Ethyl methacrylate	69	9.338	9.338	0.000	92	132531	50.0	45.9	
76 1,1,2-Trichloroethane	97	9.472	9.472	0.000	91	124996	50.0	51.1	
77 Tetrachloroethene	164	9.538	9.538	0.000	97	164872	50.0	49.6	
78 1,3-Dichloropropane	76	9.624	9.624	0.000	96	208358	50.0	51.3	
79 2-Hexanone	43	9.691	9.691	0.000	99	209735	100.0	96.2	
81 Chlorodibromomethane	129	9.843	9.843	0.000	91	103005	50.0	49.9	
82 Ethylene Dibromide	107	9.952	9.952	0.000	97	121874	50.0	50.5	
84 Chlorobenzene	112	10.439	10.439	0.000	96	451608	50.0	50.4	
86 1,1,1,2-Tetrachloroethane	131	10.530	10.530	0.000	93	135987	50.0	51.6	
87 Ethylbenzene	106	10.542	10.542	0.000	98	253378	50.0	49.4	
88 m-Xylene & p-Xylene	106	10.670	10.670	0.000	98	317788	50.0	51.7	
89 o-Xylene	106	11.053	11.053	0.000	95	292376	50.0	50.0	
90 Styrene	104	11.078	11.078	0.000	96	472010	50.0	50.9	
91 Bromoform	173	11.254	11.254	0.000	98	61115	50.0	53.4	
93 Isopropylbenzene	105	11.424	11.424	0.000	94	749753	50.0	51.2	
95 Bromobenzene	156	11.735	11.735	0.000	86	187527	50.0	47.5	
96 1,1,2,2-Tetrachloroethane	83	11.741	11.741	0.000	78	141128	50.0	54.1	
97 trans-1,4-Dichloro-2-buten	53	11.771	11.771	0.000	72	41129	50.0	50.2	
98 1,2,3-Trichloropropane	110	11.789	11.789	0.000	86	56450	50.0	51.7	
99 N-Propylbenzene	120	11.838	11.838	0.000	98	235356	50.0	51.2	
100 2-Chlorotoluene	126	11.929	11.929	0.000	98	188102	50.0	50.2	
102 1,3,5-Trimethylbenzene	105	12.021	12.021	0.000	96	597217	50.0	51.9	
103 4-Chlorotoluene	126	12.051	12.051	0.000	97	206775	50.0	53.2	
104 tert-Butylbenzene	119	12.337	12.337	0.000	90	535414	50.0	52.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
106 1,2,4-Trimethylbenzene	105	12.398	12.398	0.000	95	596622	50.0	52.3	
108 sec-Butylbenzene	105	12.562	12.562	0.000	93	700488	50.0	50.9	
109 1,3-Dichlorobenzene	146	12.678	12.678	0.000	96	369184	50.0	50.2	
110 4-Isopropyltoluene	119	12.714	12.714	0.000	98	641706	50.0	53.4	
111 1,4-Dichlorobenzene	146	12.781	12.781	0.000	96	389143	50.0	52.1	
116 n-Butylbenzene	91	13.122	13.122	0.000	97	439104	50.0	50.4	
117 1,2-Dichlorobenzene	146	13.140	13.140	0.000	98	344859	50.0	50.0	
118 1,2-Dibromo-3-Chloropropan	75	13.931	13.931	0.000	80	16908	50.0	48.7	
122 1,2,4-Trichlorobenzene	180	14.752	14.752	0.000	95	146332	50.0	44.4	
123 Hexachlorobutadiene	225	14.898	14.898	0.000	94	80038	50.0	50.7	
124 Naphthalene	128	15.020	15.020	0.000	97	350940	50.0	46.0	
125 1,2,3-Trichlorobenzene	180	15.245	15.245	0.000	95	151006	50.0	54.8	
S 130 1,2-Dichloroethene, Total	96				0		100.0	106.8	
S 131 Xylenes, Total	106				0		100.0	101.7	
S 132 1,3-Dichloropropene, Total	1				0		100.0	102.4	

### QC Flag Legend

Review Flags

M - Manually Integrated  
a - User Assigned ID

### Reagents:

VOACRPRI_00024	Amount Added: 6.00	Units: uL	
voaWketmix1st_00022	Amount Added: 2.00	Units: uL	
VOA8260VOAPRI_00388	Amount Added: 2.00	Units: uL	
VOAVAPRI_00032	Amount Added: 2.00	Units: uL	
VOACEVE2ND_00035	Amount Added: 2.00	Units: uL	
VOA8260INT_00103	Amount Added: 2.00	Units: uL	Run Reagent
VOA8260SURR_00103	Amount Added: 2.00	Units: uL	Run Reagent

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012503A.D

Injection Date: 25-Jan-2020 11:31:30

Instrument ID: CHHP6

Operator ID: 433269

Lims ID: CCVIS

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

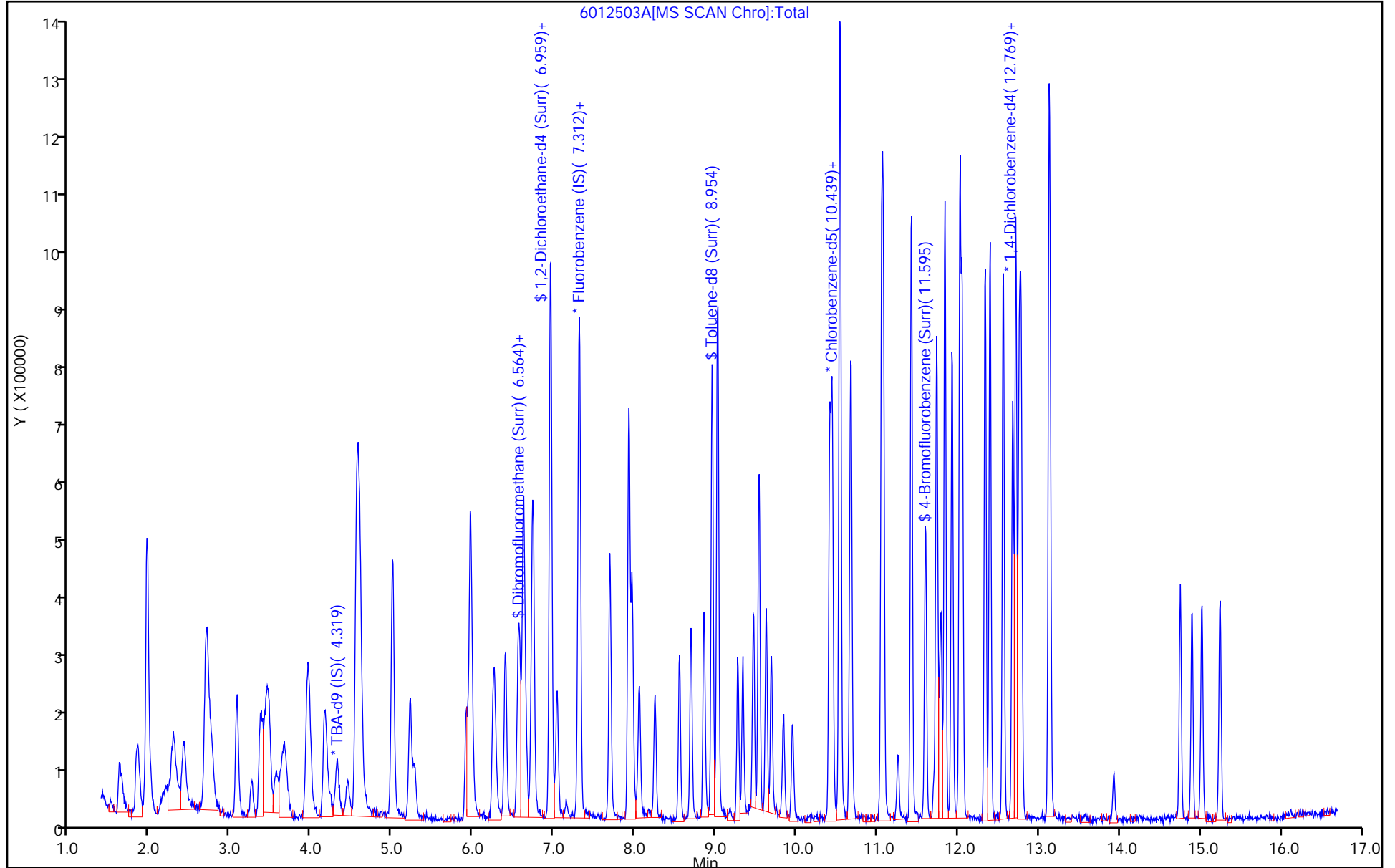
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: MSVOA\_LL\_CHHP6

Limit Group: VOA 8260C\_D ICAL

Column: DB-624 (0.18 mm)



FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-101459-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 180-304996/3 Calibration Date: 01/25/2020 11:31  
 Instrument ID: CHHP6 Calib Start Date: 12/31/2019 12:53  
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 12/31/2019 16:03  
 Lab File ID: 6012503A.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	0.3440	0.3956	0.1000	11.5	10.0	15.0	20.0
Chloromethane	Ave	0.3810	0.5121	0.1000	13.4	10.0	34.4*	20.0
Vinyl chloride	Ave	0.3279	0.4229	0.1000	12.9	10.0	29.0*	20.0
1,3-Butadiene	Ave	0.3353	0.4424	0.0100	13.2	10.0	32.0*	20.0
Bromomethane	Ave	0.2092	0.2671	0.0500	12.8	10.0	27.7*	20.0
Chloroethane	Ave	0.2388	0.3003	0.0500	12.6	10.0	25.8*	20.0
Dichlorofluoromethane	Ave	0.4889	0.6031	0.0100	12.3	10.0	23.4*	20.0
Trichlorofluoromethane	Ave	0.4549	0.5459	0.1000	12.0	10.0	20.0	20.0
Ethyl ether	Ave	0.2381	0.2998	0.0100	12.6	10.0	25.9*	20.0
1,1-Dichloroethene	Ave	0.2394	0.2682	0.1000	11.2	10.0	12.0	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2644	0.3045	0.1000	11.5	10.0	15.2	20.0
Acetone	Ave	0.1220	0.1224	0.0500	20.1	20.0	0.3	20.0
Iodomethane	Ave	0.4573	0.4779	0.0100	10.4	10.0	4.5	20.0
Carbon disulfide	Ave	0.5386	0.6192	0.1000	11.5	10.0	15.0	20.0
Allyl chloride	Ave	0.1360	0.1383	0.0100	10.2	10.0	1.7	20.0
Methyl acetate	Ave	0.1906	0.2459	0.1000	25.8	20.0	29.0*	20.0
Methylene Chloride	Lin2		0.2803	0.1000	9.62	10.0	-3.8	20.0
tert-Butyl alcohol	Ave	1.096	1.228	0.0100	112	100	12.1	20.0
Acrylonitrile	Ave	0.0982	0.1121	0.0100	114	100	14.1	20.0
trans-1,2-Dichloroethene	Ave	0.2722	0.3000	0.1000	11.0	10.0	10.2	20.0
Methyl tert-butyl ether	Ave	0.5273	0.5331	0.1000	10.1	10.0	1.1	20.0
Hexane	Ave	0.4121	0.4895	0.0100	11.9	10.0	18.8	20.0
1,1-Dichloroethane	Ave	0.4392	0.4847	0.2000	11.0	10.0	10.3	20.0
2,2-Dichloropropane	Ave	0.0563	0.0590	0.0100	10.5	10.0	4.7	20.0
cis-1,2-Dichloroethene	Ave	0.2931	0.3030	0.1000	10.3	10.0	3.4	20.0
2-Butanone (MEK)	Ave	0.1535	0.1623	0.0500	21.1	20.0	5.7	20.0
Bromochloromethane	Ave	0.1508	0.1473	0.0100	9.77	10.0	-2.3	20.0
Tetrahydrofuran	Lin2		0.0831	0.0100	22.3	20.0	11.3	20.0
Chloroform	Lin2		0.4415	0.2000	10.6	10.0	5.7	20.0
1,1,1-Trichloroethane	Ave	0.3373	0.3525	0.1000	10.5	10.0	4.5	20.0
Cyclohexane	Ave	0.5164	0.5961	0.1000	11.5	10.0	15.4	20.0
Carbon tetrachloride	Ave	0.2837	0.3318	0.1000	11.7	10.0	17.0	20.0
1,1-Dichloropropene	Ave	0.3356	0.3656	0.0100	10.9	10.0	8.9	20.0
Isobutyl alcohol	Ave	0.0070	0.0070*	0.0100	251	250	0.5	20.0
Benzene	Ave	1.081	1.159	0.5000	10.7	10.0	7.3	20.0
1,2-Dichloroethane	Ave	0.2976	0.3221	0.1000	10.8	10.0	8.2	20.0
n-Heptane	Ave	0.3250	0.3643	0.0100	11.2	10.0	12.1	20.0
Trichloroethene	Ave	0.3203	0.3312	0.2000	10.3	10.0	3.4	20.0
Methylcyclohexane	Ave	0.4366	0.4902	0.1000	11.2	10.0	12.3	20.0
1,2-Dichloropropane	Ave	0.2530	0.2858	0.1000	11.3	10.0	13.0	20.0

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-101459-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 180-304996/3 Calibration Date: 01/25/2020 11:31  
 Instrument ID: CHHP6 Calib Start Date: 12/31/2019 12:53  
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 12/31/2019 16:03  
 Lab File ID: 6012503A.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
Dibromomethane	Ave	0.1369	0.1383	0.0100	10.1	10.0	1.0	20.0
1,4-Dioxane	Ave	0.0028	0.0026*	0.0100	187	200	-6.7	20.0
Bromodichloromethane	Ave	0.2365	0.2563	0.2000	10.8	10.0	8.4	20.0
cis-1,3-Dichloropropene	Ave	0.3058	0.3370	0.2000	11.0	10.0	10.2	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.8865	0.9811	0.1000	22.1	20.0	10.7	20.0
Toluene	Ave	4.712	4.973	0.4000	10.6	10.0	5.5	20.0
trans-1,3-Dichloropropene	Ave	1.030	0.9750	0.1000	9.46	10.0	-5.4	20.0
Ethyl methacrylate	Ave	1.011	0.9288	0.0100	9.18	10.0	-8.2	20.0
1,1,2-Trichloroethane	Ave	0.8572	0.8760	0.1000	10.2	10.0	2.2	20.0
Tetrachloroethene	Ave	1.164	1.155	0.2000	9.93	10.0	-0.7	20.0
1,3-Dichloropropane	Ave	1.423	1.460	0.0100	10.3	10.0	2.6	20.0
2-Hexanone	Ave	0.7636	0.7349	0.1000	19.2	20.0	-3.8	20.0
Dibromochloromethane	Ave	0.7240	0.7219	0.1000	9.97	10.0	-0.3	20.0
1,2-Dibromoethane (EDB)	Ave	0.8460	0.8541	0.1000	10.1	10.0	1.0	20.0
Chlorobenzene	Ave	3.141	3.165	0.5000	10.1	10.0	0.8	20.0
1,1,1,2-Tetrachloroethane	Ave	0.9226	0.9530	0.0100	10.3	10.0	3.3	20.0
Ethylbenzene	Ave	1.797	1.776	0.1000	9.88	10.0	-1.2	20.0
m-Xylene & p-Xylene	Ave	2.155	2.227	0.1000	10.3	10.0	3.4	20.0
o-Xylene	Ave	2.050	2.049	0.3000	9.99	10.0	-0.0	20.0
Styrene	Ave	3.248	3.308	0.3000	10.2	10.0	1.9	20.0
Bromoform	Ave	0.4014	0.4283	0.1000	10.7	10.0	6.7	20.0
Isopropylbenzene	Ave	5.135	5.254	0.1000	10.2	10.0	2.3	20.0
Bromobenzene	Ave	0.8243	0.7830	0.0100	9.50	10.0	-5.0	20.0
1,1,2,2-Tetrachloroethane	Ave	0.9137	0.9891	0.3000	10.8	10.0	8.2	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1709	0.1717	0.0100	10.0	10.0	0.5	20.0
1,2,3-Trichloropropane	Lin2		0.2357	0.0100	10.3	10.0	3.4	20.0
N-Propylbenzene	Ave	0.9593	0.9827	0.0100	10.2	10.0	2.4	20.0
2-Chlorotoluene	Ave	0.7818	0.7854	0.0100	10.0	10.0	0.5	20.0
1,3,5-Trimethylbenzene	Ave	2.400	2.493	0.0100	10.4	10.0	3.9	20.0
4-Chlorotoluene	Ave	0.8109	0.8633	0.0100	10.6	10.0	6.5	20.0
tert-Butylbenzene	Ave	2.147	2.235	0.0100	10.4	10.0	4.1	20.0
1,2,4-Trimethylbenzene	Ave	2.382	2.491	0.0100	10.5	10.0	4.6	20.0
sec-Butylbenzene	Ave	2.871	2.925	0.0100	10.2	10.0	1.9	20.0
1,3-Dichlorobenzene	Ave	1.536	1.541	0.6000	10.0	10.0	0.3	20.0
4-Isopropyltoluene	Ave	2.509	2.679	0.0100	10.7	10.0	6.8	20.0
1,4-Dichlorobenzene	Ave	1.561	1.625	0.5000	10.4	10.0	4.1	20.0
n-Butylbenzene	Ave	1.820	1.833	0.0100	10.1	10.0	0.7	20.0
1,2-Dichlorobenzene	Ave	1.439	1.440	0.4000	10.0	10.0	0.0	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0724	0.0706	0.0500	9.75	10.0	-2.5	20.0
1,2,4-Trichlorobenzene	Ave	0.6882	0.6110	0.2000	8.88	10.0	-11.2	20.0
Hexachlorobutadiene	Ave	0.3294	0.3342	0.0100	10.1	10.0	1.5	20.0

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-101459-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 180-304996/3 Calibration Date: 01/25/2020 11:31  
 Instrument ID: CHHP6 Calib Start Date: 12/31/2019 12:53  
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 12/31/2019 16:03  
 Lab File ID: 6012503A.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
Naphthalene	Ave	1.592	1.465	0.0100	9.20	10.0	-8.0	20.0
1,2,3-Trichlorobenzene	Ave	0.5756	0.6305	0.0100	11.0	10.0	9.5	20.0
Dibromofluoromethane (Surr)	Ave	0.2253	0.2301		10.2	10.0	2.1	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2345	0.2433		10.4	10.0	3.8	20.0
Toluene-d8 (Surr)	Ave	3.704	3.886		10.5	10.0	4.9	20.0
4-Bromofluorobenzene (Surr)	Ave	1.323	1.258		9.51	10.0	-4.9	20.0

Eurofins TestAmerica, Pittsburgh  
Target Compound Quantitation Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012503A.D  
 Lims ID: CCVIS  
 Client ID:  
 Sample Type: CCVIS  
 Inject. Date: 25-Jan-2020 11:31:30 ALS Bottle#: 3 Worklist Smp#: 3  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 180-0030512-003  
 Misc. Info.: CCVIS  
 Operator ID: 433269 Instrument ID: CHHP6  
 Sublist: chrom-MSVOA\_LL\_CHHP6\*sub84  
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\MSVOA\_LL\_CHHP6.m  
 Limit Group: VOA 8260C\_D ICAL  
 Last Update: 25-Jan-2020 16:18:50 Calib Date: 31-Dec-2019 16:03:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123111.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0321

First Level Reviewer: bowieh

Date: 25-Jan-2020 16:18:50

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.319	4.319	0.000	90	129303	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.306	7.306	0.000	99	546647	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.408	10.408	0.000	83	142691	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.757	12.757	0.000	92	239511	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.582	6.582	0.000	95	125772	50.0	51.1	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.953	6.953	0.000	94	132990	50.0	51.9	
\$ 7 Toluene-d8 (Surr)	98	8.954	8.954	0.000	92	554426	50.0	52.5	
\$ 8 4-Bromofluorobenzene (Surr	95	11.595	11.595	0.000	0	179504	50.0	47.5	
11 Dichlorodifluoromethane	85	1.624	1.624	0.000	99	216273	50.0	57.5	
12 Chloromethane	50	1.837	1.837	0.000	99	279926	50.0	67.2	
13 Vinyl chloride	62	1.952	1.952	0.000	63	231148	50.0	64.5	
14 Butadiene	39	1.965	1.965	0.000	91	241844	50.0	66.0	
15 Bromomethane	94	2.287	2.287	0.000	93	146033	50.0	63.8	
16 Chloroethane	64	2.421	2.421	0.000	99	164174	50.0	62.9	
17 Dichlorofluoromethane	67	2.689	2.689	0.000	97	329689	50.0	61.7	
18 Trichlorofluoromethane	101	2.719	2.719	0.000	82	298425	50.0	60.0	
20 Ethyl ether	59	3.078	3.078	0.000	94	163900	50.0	63.0	
21 Acrolein	56	3.260	3.260	0.000	100	85031	150.0	163.7	
22 1,1-Dichloroethene	96	3.370	3.370	0.000	97	146614	50.0	56.0	
23 1,1,2-Trichloro-1,2,2-trif	101	3.437	3.437	0.000	88	166463	50.0	57.6	
24 Acetone	43	3.473	3.473	0.000	100	133768	100.0	100.3	
25 Iodomethane	142	3.565	3.565	0.000	96	261240	50.0	52.2	
26 Carbon disulfide	76	3.662	3.662	0.000	99	338497	50.0	57.5	
29 3-Chloro-1-propene	76	3.942	3.942	0.000	91	75607	50.0	50.9	
30 Methyl acetate	43	3.972	3.972	0.000	99	268869	100.0	129.0	
31 Methylene Chloride	84	4.155	4.155	0.000	99	153224	50.0	48.1	
32 2-Methyl-2-propanol	59	4.447	4.447	0.000	92	79374	500.0	560.3	
33 Acrylonitrile	53	4.556	4.556	0.000	99	612655	500.0	570.5	
34 trans-1,2-Dichloroethene	96	4.574	4.574	0.000	99	164014	50.0	55.1	
35 Methyl tert-butyl ether	73	4.611	4.611	0.000	97	291437	50.0	50.6	



Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	5.000	5.000	0.000	93	267585	50.0	59.4	
37 1,1-Dichloroethane	63	5.219	5.219	0.000	97	264936	50.0	55.2	
38 Vinyl acetate	43	5.280	5.280	0.000	98	162844	50.0	28.8	
43 cis-1,2-Dichloroethene	96	5.967	5.967	0.000	82	165610	50.0	51.7	
42 2,2-Dichloropropane	97	5.967	5.967	0.000	62	32230	50.0	52.3	
44 2-Butanone (MEK)	43	5.980	5.980	0.000	98	177413	100.0	105.7	a
48 Chlorobromomethane	128	6.247	6.247	0.000	97	80518	50.0	48.8	
49 Tetrahydrofuran	42	6.272	6.272	0.000	0	90885	100.0	111.3	
50 Chloroform	83	6.393	6.393	0.000	95	241350	50.0	52.8	
51 1,1,1-Trichloroethane	97	6.558	6.558	0.000	99	192708	50.0	52.3	
52 Cyclohexane	56	6.625	6.625	0.000	94	325851	50.0	57.7	
53 Carbon tetrachloride	117	6.722	6.722	0.000	95	181392	50.0	58.5	
54 1,1-Dichloropropene	75	6.740	6.740	0.000	91	199845	50.0	54.5	
55 Isobutyl alcohol	41	6.953	6.953	0.000	67	95992	1250.0	1256.1	
56 Benzene	78	6.959	6.959	0.000	97	633599	50.0	53.6	
57 1,2-Dichloroethane	62	7.038	7.038	0.000	95	176091	50.0	54.1	
59 n-Heptane	43	7.318	7.318	0.000	95	199156	50.0	56.1	
61 Trichloroethene	130	7.689	7.689	0.000	92	181041	50.0	51.7	
63 Methylcyclohexane	83	7.926	7.926	0.000	94	267942	50.0	56.1	
64 1,2-Dichloropropane	63	7.963	7.963	0.000	93	156221	50.0	56.5	
67 Dibromomethane	93	8.048	8.048	0.000	90	75596	50.0	50.5	
65 1,4-Dioxane	88	8.060	8.060	0.000	37	28081	1000.0	933.0	M
68 Dichlorobromomethane	83	8.249	8.249	0.000	98	140109	50.0	54.2	
70 2-Chloroethyl vinyl ether	63	8.553	8.553	0.000	93	117021	100.0	74.3	
71 cis-1,3-Dichloropropene	75	8.699	8.699	0.000	92	184195	50.0	55.1	
72 4-Methyl-2-pentanone (MIBK)	43	8.857	8.857	0.000	99	279987	100.0	110.7	
73 Toluene	91	9.021	9.021	0.000	99	709552	50.0	52.8	
74 trans-1,3-Dichloropropene	75	9.277	9.277	0.000	95	139124	50.0	47.3	
75 Ethyl methacrylate	69	9.338	9.338	0.000	92	132531	50.0	45.9	
76 1,1,2-Trichloroethane	97	9.472	9.472	0.000	91	124996	50.0	51.1	
77 Tetrachloroethene	164	9.538	9.538	0.000	97	164872	50.0	49.6	
78 1,3-Dichloropropane	76	9.624	9.624	0.000	96	208358	50.0	51.3	
79 2-Hexanone	43	9.691	9.691	0.000	99	209735	100.0	96.2	
81 Chlorodibromomethane	129	9.843	9.843	0.000	91	103005	50.0	49.9	
82 Ethylene Dibromide	107	9.952	9.952	0.000	97	121874	50.0	50.5	
84 Chlorobenzene	112	10.439	10.439	0.000	96	451608	50.0	50.4	
86 1,1,1,2-Tetrachloroethane	131	10.530	10.530	0.000	93	135987	50.0	51.6	
87 Ethylbenzene	106	10.542	10.542	0.000	98	253378	50.0	49.4	
88 m-Xylene & p-Xylene	106	10.670	10.670	0.000	98	317788	50.0	51.7	
89 o-Xylene	106	11.053	11.053	0.000	95	292376	50.0	50.0	
90 Styrene	104	11.078	11.078	0.000	96	472010	50.0	50.9	
91 Bromoform	173	11.254	11.254	0.000	98	61115	50.0	53.4	
93 Isopropylbenzene	105	11.424	11.424	0.000	94	749753	50.0	51.2	
95 Bromobenzene	156	11.735	11.735	0.000	86	187527	50.0	47.5	
96 1,1,2,2-Tetrachloroethane	83	11.741	11.741	0.000	78	141128	50.0	54.1	
97 trans-1,4-Dichloro-2-buten	53	11.771	11.771	0.000	72	41129	50.0	50.2	
98 1,2,3-Trichloropropane	110	11.789	11.789	0.000	86	56450	50.0	51.7	
99 N-Propylbenzene	120	11.838	11.838	0.000	98	235356	50.0	51.2	
100 2-Chlorotoluene	126	11.929	11.929	0.000	98	188102	50.0	50.2	
102 1,3,5-Trimethylbenzene	105	12.021	12.021	0.000	96	597217	50.0	51.9	
103 4-Chlorotoluene	126	12.051	12.051	0.000	97	206775	50.0	53.2	
104 tert-Butylbenzene	119	12.337	12.337	0.000	90	535414	50.0	52.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
106 1,2,4-Trimethylbenzene	105	12.398	12.398	0.000	95	596622	50.0	52.3	
108 sec-Butylbenzene	105	12.562	12.562	0.000	93	700488	50.0	50.9	
109 1,3-Dichlorobenzene	146	12.678	12.678	0.000	96	369184	50.0	50.2	
110 4-Isopropyltoluene	119	12.714	12.714	0.000	98	641706	50.0	53.4	
111 1,4-Dichlorobenzene	146	12.781	12.781	0.000	96	389143	50.0	52.1	
116 n-Butylbenzene	91	13.122	13.122	0.000	97	439104	50.0	50.4	
117 1,2-Dichlorobenzene	146	13.140	13.140	0.000	98	344859	50.0	50.0	
118 1,2-Dibromo-3-Chloropropan	75	13.931	13.931	0.000	80	16908	50.0	48.7	
122 1,2,4-Trichlorobenzene	180	14.752	14.752	0.000	95	146332	50.0	44.4	
123 Hexachlorobutadiene	225	14.898	14.898	0.000	94	80038	50.0	50.7	
124 Naphthalene	128	15.020	15.020	0.000	97	350940	50.0	46.0	
125 1,2,3-Trichlorobenzene	180	15.245	15.245	0.000	95	151006	50.0	54.8	
S 130 1,2-Dichloroethene, Total	96				0		100.0	106.8	
S 131 Xylenes, Total	106				0		100.0	101.7	
S 132 1,3-Dichloropropene, Total	1				0		100.0	102.4	

### QC Flag Legend

Review Flags

M - Manually Integrated  
a - User Assigned ID

### Reagents:

VOAACRPRI_00024	Amount Added: 6.00	Units: uL	
voaWketmix1st_00022	Amount Added: 2.00	Units: uL	
VOA8260VOAPRI_00388	Amount Added: 2.00	Units: uL	
VOAVAPRI_00032	Amount Added: 2.00	Units: uL	
VOACEVE2ND_00035	Amount Added: 2.00	Units: uL	
VOA8260INT_00103	Amount Added: 2.00	Units: uL	Run Reagent
VOA8260SURR_00103	Amount Added: 2.00	Units: uL	Run Reagent

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012503A.D

Injection Date: 25-Jan-2020 11:31:30

Instrument ID: CHHP6

Operator ID: 433269

Lims ID: CCVIS

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

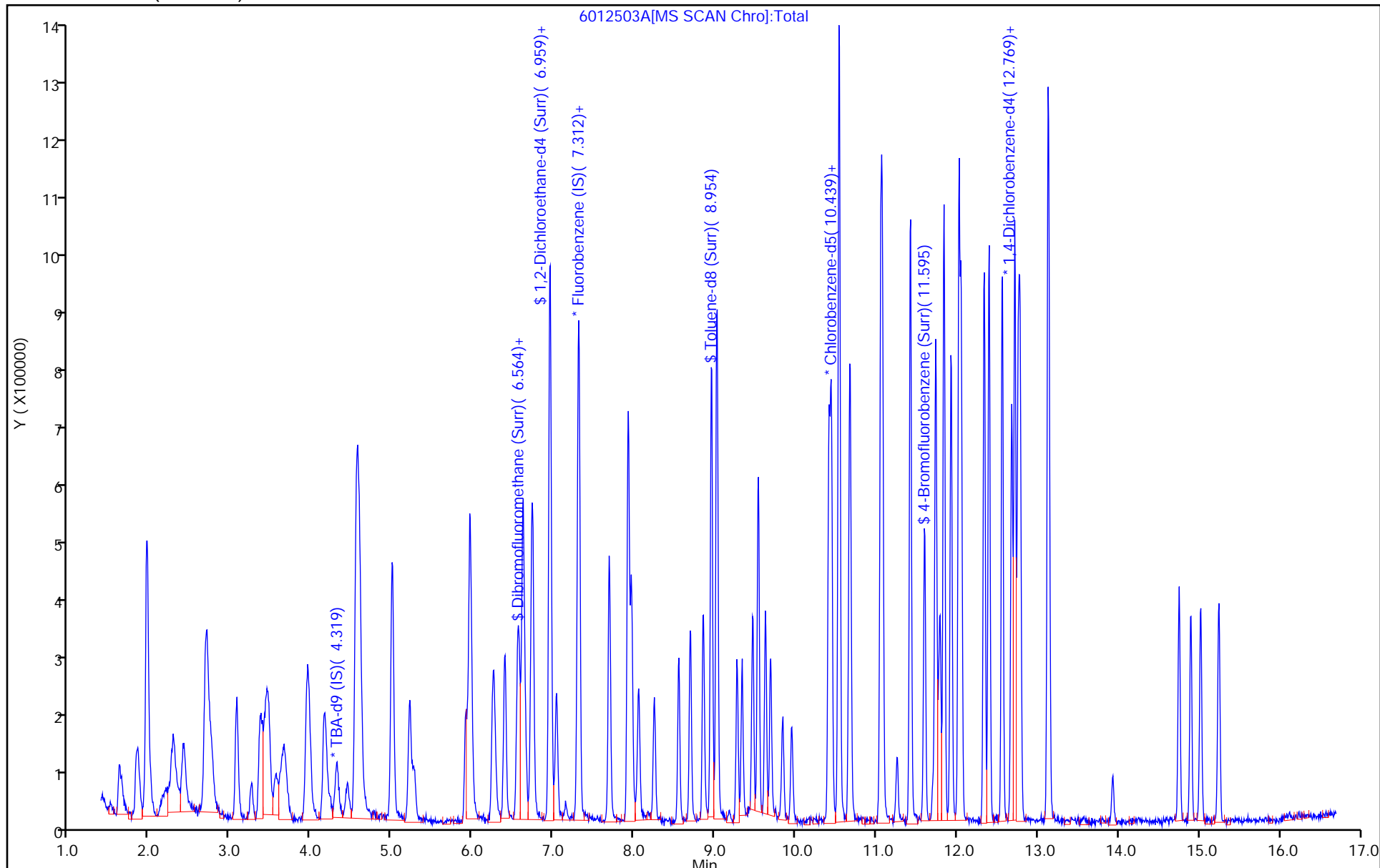
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: MSVOA\_LL\_CHHP6

Limit Group: VOA 8260C\_D ICAL

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Pittsburgh

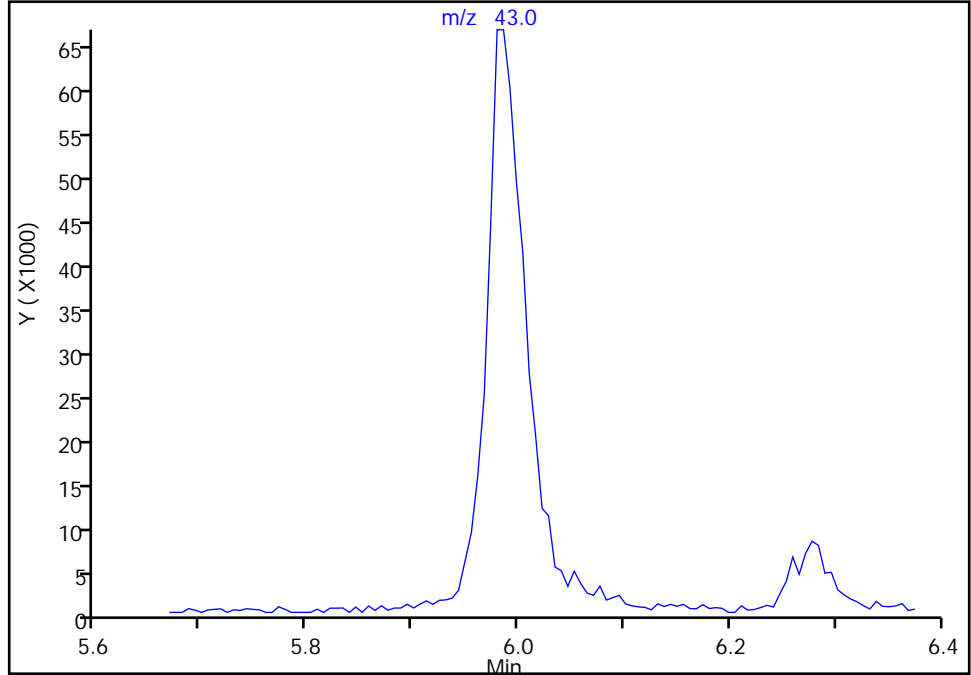
Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012503A.D  
Injection Date: 25-Jan-2020 11:31:30 Instrument ID: CHHP6  
Lims ID: CCVIS  
Client ID:  
Operator ID: 433269 ALS Bottle#: 3 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
Column: DB-624 (0.18 mm) Detector: MS SCAN

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

Signal: 1

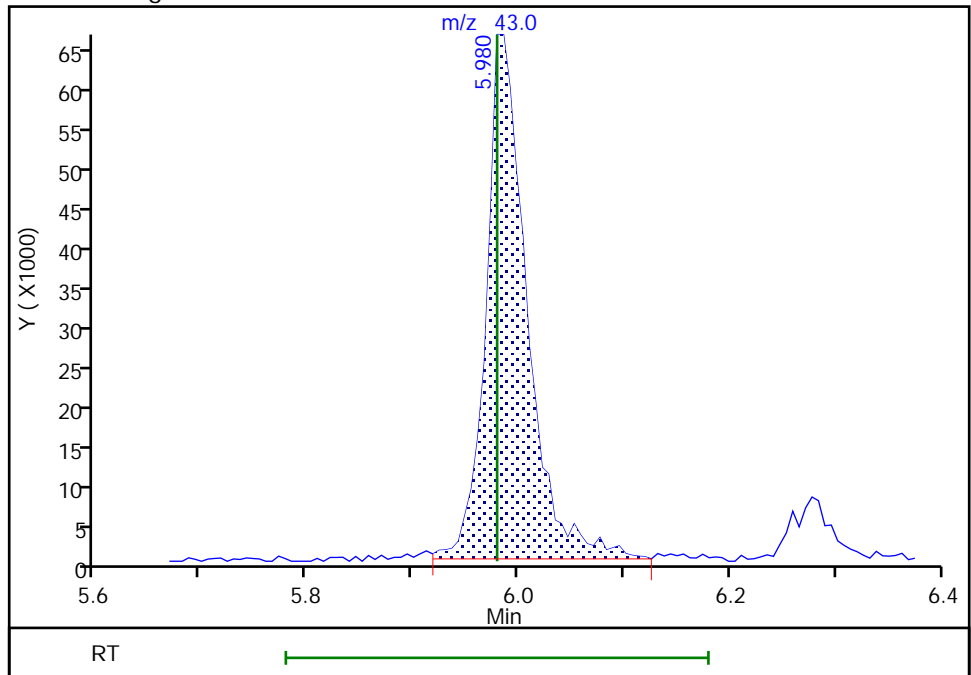
Not Detected  
Expected RT: 5.98

Processing Integration Results



Manual Integration Results

RT: 5.98  
Area: 177413  
Amount: 105.7149  
Amount Units: ng



Reviewer: bowieh, 25-Jan-2020 11:53:43  
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Pittsburgh

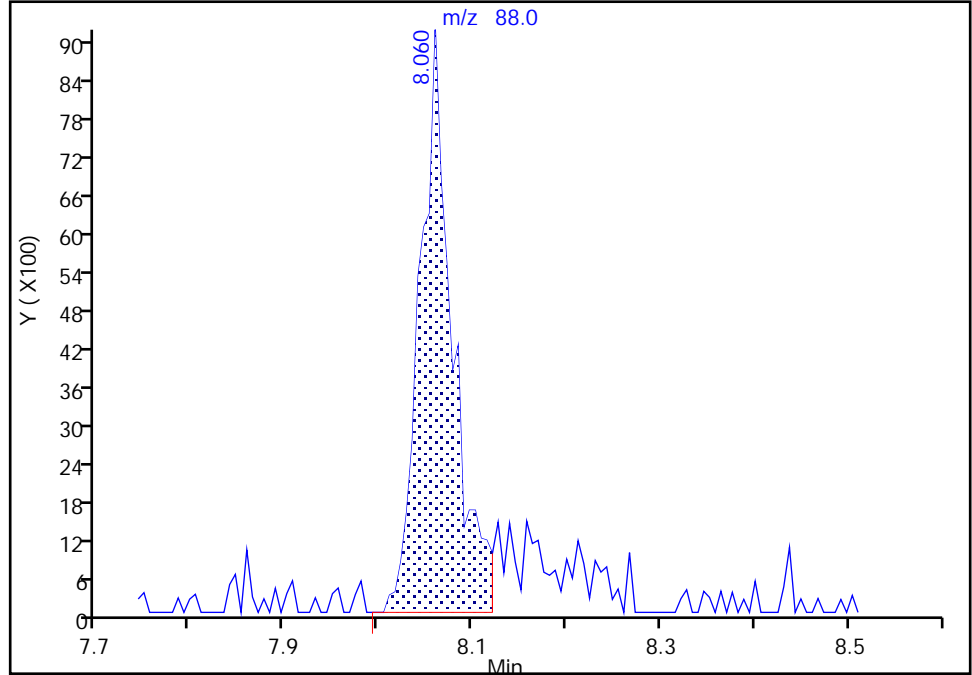
Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012503A.D  
Injection Date: 25-Jan-2020 11:31:30 Instrument ID: CHHP6  
Lims ID: CCVIS  
Client ID:  
Operator ID: 433269 ALS Bottle#: 3 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
Column: DB-624 (0.18 mm) Detector: MS SCAN

65 1,4-Dioxane, CAS: 123-91-1

Signal: 1

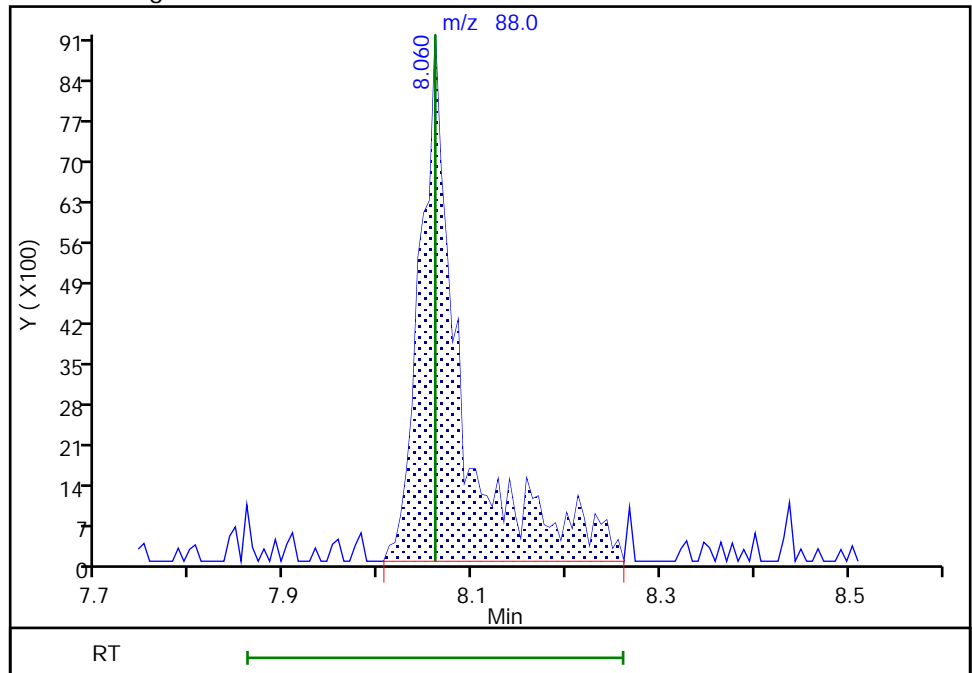
RT: 8.06  
Area: 22011  
Amount: 731.3312  
Amount Units: ng

Processing Integration Results



RT: 8.06  
Area: 28081  
Amount: 933.0113  
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 25-Jan-2020 11:53:57  
Audit Action: Manually Integrated

Audit Reason: Peak Tail

Eurofins TestAmerica, Pittsburgh  
 Target Compound Quantitation Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123101A.D  
 Lims ID: BFB  
 Client ID:  
 Sample Type: BFB  
 Inject. Date: 31-Dec-2019 11:25:30 ALS Bottle#: 1 Worklist Smp#: 1  
 Injection Vol: 5.0 mL Dil. Factor: 1.0000  
 Sample Info: 180-0030232-001  
 Misc. Info.: BFB  
 Operator ID: 433269 Instrument ID: CHHP6  
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\MSVOA\_LL\_CHHP6.m  
 Limit Group: VOA 8260C\_D ICAL  
 Last Update: 31-Dec-2019 19:24:39 Calib Date: 31-Dec-2019 16:03:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123111.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0338

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
\$ 10 BFB	95	8.430	8.430	0.000	0	82451	NR	NR	

**QC Flag Legend**

Processing Flags  
 NR - Missing Quant Standard

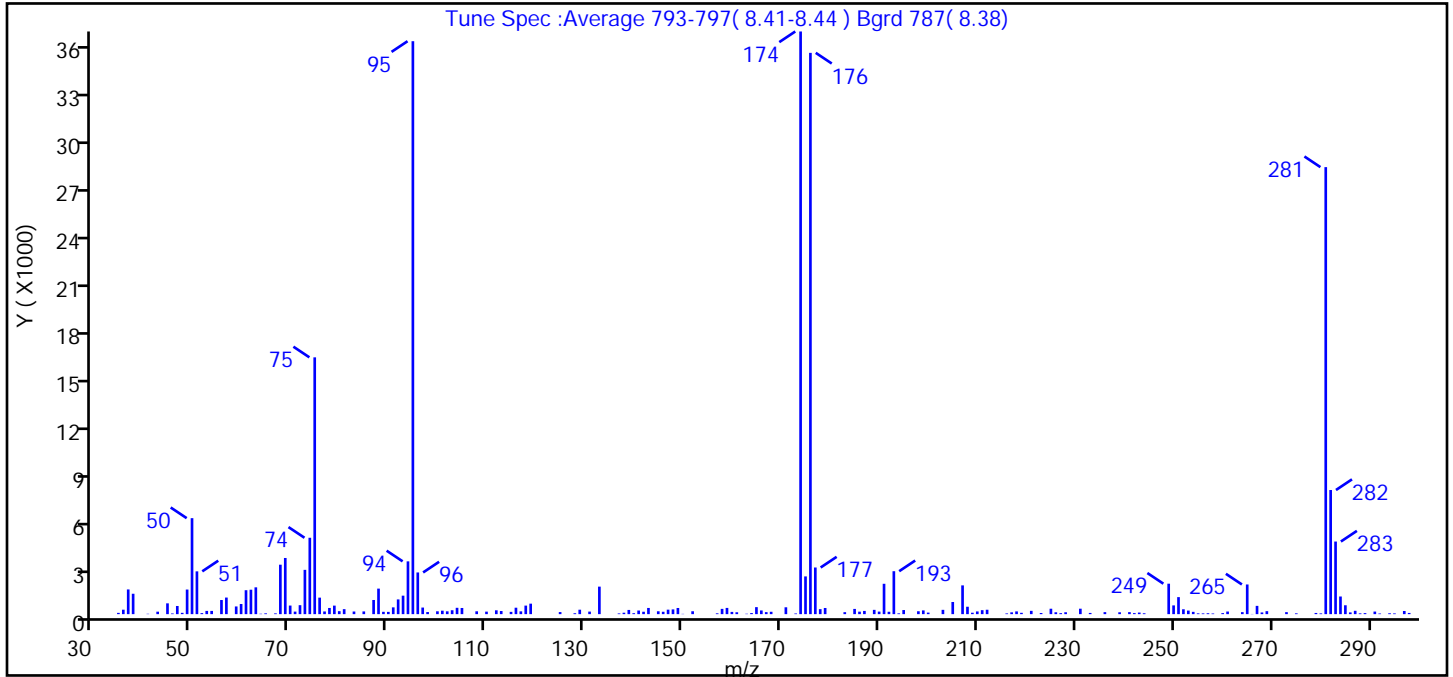
**Reagents:**

VOA BFB25\_00005 Amount Added: 1.00 Units: uL

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123101A.D  
 Injection Date: 31-Dec-2019 11:25:30 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	16.8
75	30 to 60% of m/z 95	44.8
96	5 to 9% of m/z 95	7.3
173	Less than 2% of m/z 174	0.1 (0.1)
174	50 to 120% of m/z 95	101.7
175	5 to 9% of m/z 174	6.6 (6.5)
176	Greater than 95% but less than 101% of m/z 174	98.0 (96.3)
177	5 to 9% of m/z 176	8.1 (8.3)

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123101A.D\MSVOA\_LL\_CHHP6.rsl\spectr  
 Injection Date: 31-Dec-2019 11:25:30  
 Spectrum: Tune Spec :Average 793-797( 8.41-8.44 ) Bgrd 787( 8.38)  
 Base Peak: 174.00  
 Minimum % Base Peak: 0  
 Number of Points: 184

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	80	91.00	424	161.00	118	228.00	118
36.00	278	92.00	921	163.00	25	231.00	340
37.00	1544	93.00	1155	164.00	68	233.00	75
38.00	1275	94.00	3300	165.00	438	236.00	125
41.00	22	95.00	35816	166.00	231	239.00	117
43.00	154	96.00	2606	167.00	126	241.00	126
45.00	675	97.00	412	168.00	148	242.00	65
46.00	43	98.00	131	171.00	429	243.00	100
47.00	510	100.00	178	173.00	42	244.00	54
48.00	82	101.00	216	174.00	36424	249.00	1904
49.00	1538	102.00	176	175.00	2359	250.00	547
50.00	6000	103.00	244	176.00	35088	251.00	1064
51.00	2675	104.00	396	177.00	2916	252.00	305
52.00	64	105.00	385	178.00	312	253.00	223
53.00	202	108.00	178	179.00	385	254.00	144
54.00	202	110.00	157	183.00	123	255.00	49
56.00	883	112.00	240	185.00	327	256.00	47
57.00	1037	113.00	195	186.00	155	257.00	57
59.00	481	115.00	143	187.00	201	258.00	41
60.00	634	116.00	402	189.00	268	260.00	65
61.00	1496	117.00	175	190.00	159	261.00	163
62.00	1527	118.00	534	191.00	1898	264.00	125
63.00	1676	119.00	655	192.00	148	265.00	1855
64.00	24	125.00	130	193.00	2684	266.00	11
65.00	50	128.00	57	194.00	49	267.00	517
67.00	49	129.00	277	195.00	256	268.00	106
68.00	3091	131.00	159	198.00	181	269.00	186
69.00	3511	133.00	1720	199.00	234	273.00	125
70.00	537	137.00	45	200.00	97	275.00	50
71.00	159	138.00	89	203.00	269	279.00	74
72.00	560	139.00	263	205.00	759	280.00	46
73.00	2769	140.00	60	207.00	1798	281.00	27944
74.00	4775	141.00	226	208.00	463	282.00	7760



Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123101A.D\MSVOA\_LL\_CHHP6.rsl\spectr

Injection Date: 31-Dec-2019 11:25:30

Spectrum: Tune Spec :Average 793-797( 8.41-8.44 ) Bgrd 787( 8.38)

Base Peak: 174.00

Minimum % Base Peak: 0

Number of Points: 184

m/z	Y	m/z	Y	m/z	Y	m/z	Y
75.00	16053	142.00	150	209.00	89	283.00	4539
76.00	1032	143.00	387	210.00	169	284.00	1103
77.00	168	145.00	179	211.00	249	285.00	555
78.00	386	146.00	149	212.00	275	286.00	108
79.00	533	147.00	280	216.00	45	287.00	209
80.00	186	148.00	297	217.00	113	288.00	49
81.00	312	149.00	385	218.00	171	289.00	64
83.00	165	150.00	17	219.00	84	291.00	161
85.00	170	152.00	181	221.00	206	292.00	40
87.00	885	157.00	51	223.00	71	294.00	55
88.00	1596	158.00	329	225.00	339	295.00	46
89.00	146	159.00	389	226.00	117	297.00	197
90.00	142	160.00	140	227.00	62	298.00	75

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123101A.D

Injection Date: 31-Dec-2019 11:25:30

Instrument ID: CHHP6

Operator ID: 433269

Lims ID: BFB

Worklist Smp#: 1

Client ID:

Injection Vol: 5.0 mL

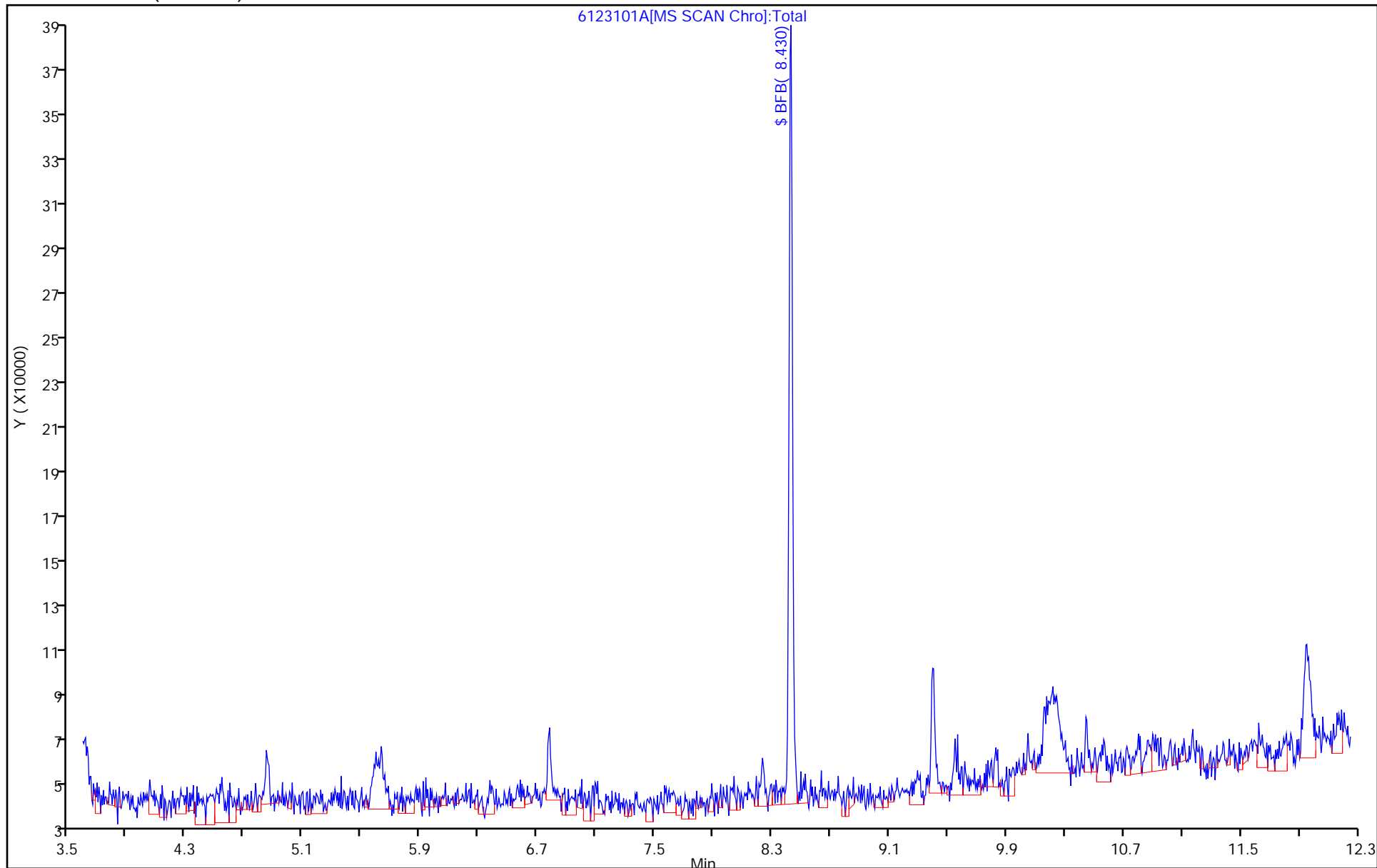
Dil. Factor: 1.0000

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\20200125-30512.b\6012501.D  
 Lims ID: BFB  
 Client ID:  
 Sample Type: BFB  
 Inject. Date: 25-Jan-2020 09:41:30 ALS Bottle#: 1 Worklist Smp#: 1  
 Injection Vol: 5.0 mL Dil. Factor: 1.0000  
 Sample Info: 180-0030512-001  
 Misc. Info.: BFB  
 Operator ID: 433269 Instrument ID: CHHP6  
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\MSVOA\_LL\_CHHP6.m  
 Limit Group: VOA 8260C\_D ICAL  
 Last Update: 25-Jan-2020 16:18:33 Calib Date: 31-Dec-2019 16:03:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123111.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0321

First Level Reviewer: bowieh Date: 25-Jan-2020 16:18:33

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	8.389	8.389	0.000	0	58010	NR	NR	
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**QC Flag Legend**

Processing Flags

NR - Missing Quant Standard

**Reagents:**

VOA BFB25\_00006

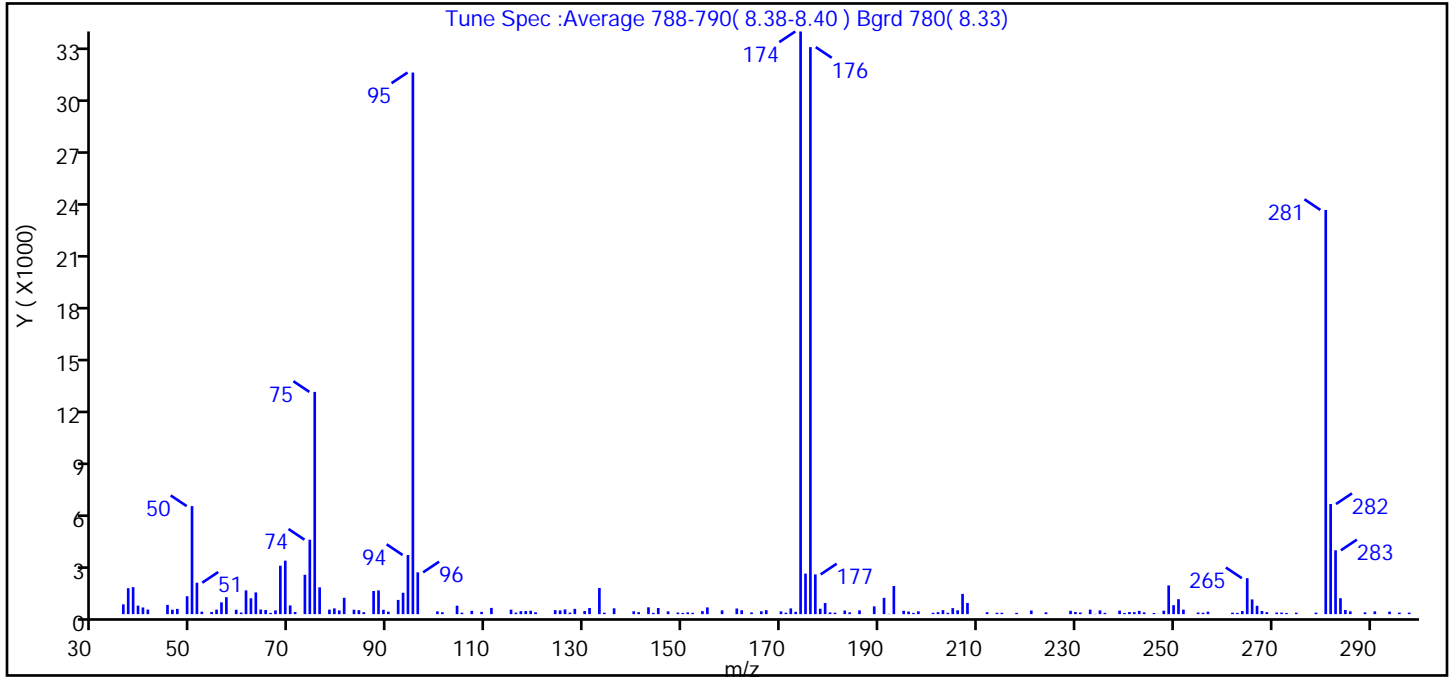
Amount Added: 1.00

Units: uL

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012501.D  
 Injection Date: 25-Jan-2020 09:41:30 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	19.9
75	30 to 60% of m/z 95	41.0
96	5 to 9% of m/z 95	7.7
173	Less than 2% of m/z 174	0.4 (0.4)
174	50 to 120% of m/z 95	107.6
175	5 to 9% of m/z 174	7.5 (7.0)
176	Greater than 95% but less than 101% of m/z 174	104.7 (97.3)
177	5 to 9% of m/z 176	7.3 (7.0)

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012501.D\MSVOA\_LL\_CHHP6.rsl\spectra  
 Injection Date: 25-Jan-2020 09:41:30  
 Spectrum: Tune Spec :Average 788-790( 8.38-8.40 ) Bgrd 780( 8.33)  
 Base Peak: 174.00  
 Minimum % Base Peak: 0  
 Number of Points: 175

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	570	90.00	146	164.00	101	234.00	13
37.00	1510	92.00	830	166.00	168	235.00	218
38.00	1573	93.00	1246	167.00	230	236.00	78
39.00	496	94.00	3446	170.00	162	239.00	204
40.00	388	95.00	31560	171.00	85	240.00	69
41.00	265	96.00	2436	172.00	334	241.00	123
45.00	539	100.00	161	173.00	137	242.00	116
46.00	261	101.00	110	174.00	33952	243.00	191
47.00	307	104.00	492	175.00	2363	244.00	103
49.00	1044	105.00	86	176.00	33040	246.00	68
50.00	6295	107.00	194	177.00	2316	248.00	203
51.00	1832	109.00	131	178.00	316	249.00	1672
52.00	148	111.00	364	179.00	647	250.00	524
54.00	127	115.00	264	180.00	104	251.00	872
55.00	264	116.00	89	181.00	87	252.00	264
56.00	688	117.00	175	183.00	211	255.00	97
57.00	988	118.00	179	184.00	106	256.00	82
59.00	257	119.00	198	186.00	220	257.00	142
60.00	93	120.00	110	189.00	454	259.00	2
61.00	1385	124.00	234	191.00	949	262.00	88
62.00	924	125.00	218	192.00	17	263.00	73
63.00	1267	126.00	278	193.00	1638	264.00	181
64.00	270	127.00	91	195.00	195	265.00	2094
65.00	243	128.00	309	196.00	148	266.00	858
66.00	74	130.00	180	197.00	75	267.00	488
67.00	218	131.00	357	198.00	164	268.00	184
68.00	2822	133.00	1521	201.00	80	269.00	119
69.00	3117	134.00	84	202.00	117	271.00	94
70.00	507	136.00	339	203.00	234	272.00	94
71.00	121	140.00	167	204.00	82	273.00	70
73.00	2295	141.00	117	205.00	351	275.00	88
74.00	4339	143.00	398	206.00	224	279.00	91
75.00	12950	144.00	75	207.00	1181	281.00	23552

Data File:

\\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012501.D\MMSVOA\_LL\_CHHP6.rsl\spectra

Injection Date:

25-Jan-2020 09:41:30

Spectrum:

Tune Spec :Average 788-790( 8.38-8.40 ) Bgrd 780( 8.33)

Base Peak:

174.00

Minimum % Base Peak: 0

Number of Points:

175

m/z	Y	m/z	Y	m/z	Y	m/z	Y
76.00	1560	145.00	360	208.00	652	282.00	6416
78.00	264	147.00	162	212.00	113	283.00	3720
79.00	336	149.00	95	214.00	81	284.00	928
80.00	217	150.00	71	215.00	83	285.00	243
81.00	953	151.00	106	218.00	78	286.00	163
83.00	259	152.00	77	221.00	212	289.00	105
84.00	231	154.00	178	224.00	108	291.00	163
85.00	116	155.00	392	229.00	193	294.00	147
87.00	1350	158.00	222	230.00	125	296.00	91
88.00	1384	161.00	329	231.00	92	298.00	90
89.00	256	162.00	227	233.00	263		

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012501.D

Injection Date: 25-Jan-2020 09:41:30

Instrument ID: CHHP6

Operator ID: 433269

Lims ID: BFB

Worklist Smp#: 1

Client ID:

Injection Vol: 5.0 mL

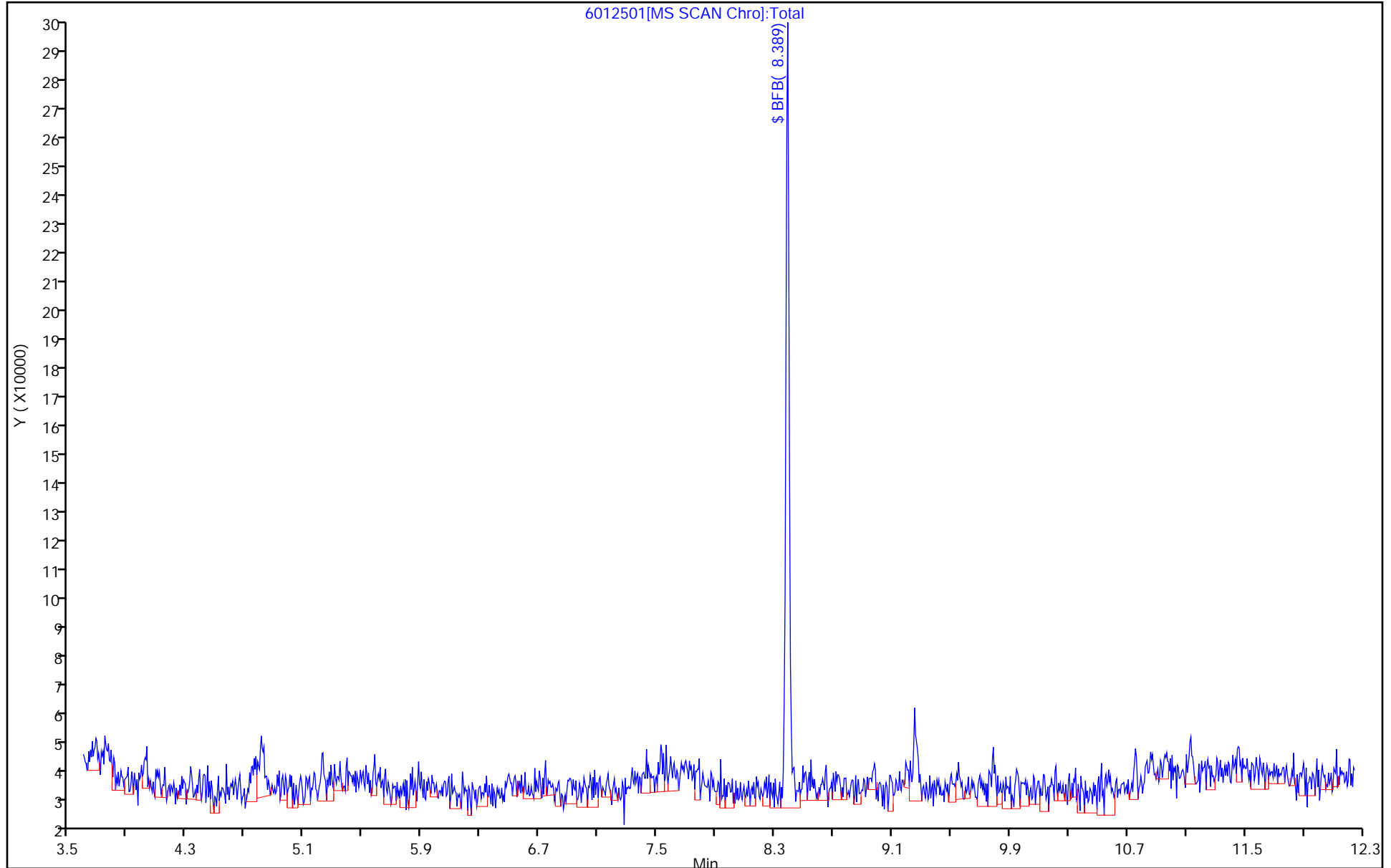
Dil. Factor: 1.0000

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.: 180-101459-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 180-304996/6  
 Matrix: Water Lab File ID: 6012506.D  
 Analysis Method: EPA 8260C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5 (mL) Date Analyzed: 01/25/2020 12:53  
 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.: 304996 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.: 180-101459-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 180-304996/6  
 Matrix: Water Lab File ID: 6012506.D  
 Analysis Method: EPA 8260C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5 (mL) Date Analyzed: 01/25/2020 12:53  
 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.: 304996 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)	98		78-128
460-00-4	4-Bromofluorobenzene (Surr)	84		64-123
1868-53-7	Dibromofluoromethane (Surr)	101		75-147

Eurofins TestAmerica, Pittsburgh  
Target Compound Quantitation Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012506.D  
 Lims ID: MB  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 25-Jan-2020 12:53:30 ALS Bottle#: 6 Worklist Smp#: 6  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 180-0030512-006  
 Misc. Info.: mb  
 Operator ID: 433269 Instrument ID: CHHP6  
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\MSVOA\_LL\_CHHP6.m  
 Limit Group: VOA 8260C\_D ICAL  
 Last Update: 25-Jan-2020 16:23:53 Calib Date: 31-Dec-2019 16:03:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123111.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0321

First Level Reviewer: bowieh

Date: 25-Jan-2020 16:23:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.304	4.319	-0.015	90	151585	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.309	7.306	0.003	99	538056	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.412	10.408	0.004	83	138973	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.760	12.757	0.003	93	205165	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.573	6.582	-0.009	95	123008	50.0	50.7	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.950	6.953	-0.003	95	142694	50.0	56.6	
\$ 7 Toluene-d8 (Surr)	98	8.958	8.954	0.004	93	502528	50.0	48.8	
\$ 8 4-Bromofluorobenzene (Surr	95	11.598	11.595	0.003	0	154038	50.0	41.9	
11 Dichlorodifluoromethane	85		1.624					ND	U
12 Chloromethane	50		1.837					ND	U
13 Vinyl chloride	62		1.952					ND	U
14 Butadiene	39		1.965					ND	U
15 Bromomethane	94		2.287					ND	U
16 Chloroethane	64		2.421					ND	U
17 Dichlorofluoromethane	67		2.689					ND	U
18 Trichlorofluoromethane	101		2.719					ND	U
19 Ethanol	45	2.862	2.875	-0.013	0	1410		NC	
20 Ethyl ether	59		3.078					ND	U
21 Acrolein	56		3.260					ND	
22 1,1-Dichloroethene	96		3.370					ND	
23 1,1,2-Trichloro-1,2,2-trif	101		3.437					ND	
24 Acetone	43		3.473					ND	Ua
25 Iodomethane	142		3.565					ND	U
26 Carbon disulfide	76		3.662					ND	U
27 Isopropyl alcohol	45		3.754					ND	U
28 Acetonitrile	41		3.906					ND	U
29 3-Chloro-1-propene	76		3.942					ND	U
30 Methyl acetate	43		3.972					ND	U
31 Methylene Chloride	84		4.155					ND	
32 2-Methyl-2-propanol	59		4.447					ND	U
33 Acrylonitrile	53		4.556					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		4.574					ND	U
35 Methyl tert-butyl ether	73		4.611					ND	U
36 Hexane	57	5.004	5.000	0.004	69	2807		0.6330	
37 1,1-Dichloroethane	63		5.219					ND	
38 Vinyl acetate	43		5.280					ND	U
39 2-Chloro-1,3-butadiene	53		5.318					ND	U
41 Tert-butyl ethyl ether	59		5.324					ND	U
40 Isopropyl ether	45		5.324					ND	U
43 cis-1,2-Dichloroethene	96		5.967					ND	U
42 2,2-Dichloropropane	97		5.967					ND	U
44 2-Butanone (MEK)	43		5.980					ND	U
45 Propionitrile	54		6.060					ND	U
46 Ethyl acetate	43		6.060					ND	U
47 Methacrylonitrile	41		6.236					ND	U
48 Chlorobromomethane	128		6.247					ND	U
49 Tetrahydrofuran	42		6.272					ND	U
50 Chloroform	83		6.393					ND	
51 1,1,1-Trichloroethane	97		6.558					ND	U
52 Cyclohexane	56		6.625					ND	U
53 Carbon tetrachloride	117		6.722					ND	U
54 1,1-Dichloropropene	75		6.740					ND	U
55 Isobutyl alcohol	41		6.953					ND	U
56 Benzene	78		6.959					ND	U
57 1,2-Dichloroethane	62		7.038					ND	U
148 Isooctane	57		7.112					ND	U
58 Tert-amyl methyl ether	73		7.143					ND	U
59 n-Heptane	43		7.318					ND	U
60 n-Butanol	56		7.660					ND	U
61 Trichloroethene	130		7.689					ND	U
62 Ethyl acrylate	55		7.818					ND	U
63 Methylcyclohexane	83		7.926					ND	U
64 1,2-Dichloropropane	63		7.963					ND	U
67 Dibromomethane	93		8.048					ND	U
66 Methyl methacrylate	69		8.055					ND	U
65 1,4-Dioxane	88		8.060					ND	U
68 Dichlorobromomethane	83		8.249					ND	U
70 2-Chloroethyl vinyl ether	63		8.553					ND	U
71 cis-1,3-Dichloropropene	75		8.699					ND	U
72 4-Methyl-2-pentanone (MIBK)	43		8.857					ND	U
73 Toluene	91	9.013	9.021	-0.008	25	2654		0.2026	M
74 trans-1,3-Dichloropropene	75		9.277					ND	U
75 Ethyl methacrylate	69		9.338					ND	U
76 1,1,2-Trichloroethane	97		9.472					ND	U
77 Tetrachloroethene	164		9.538					ND	U
78 1,3-Dichloropropane	76		9.624					ND	U
79 2-Hexanone	43		9.691					ND	U
80 n-Butyl acetate	43		9.813					ND	U
81 Chlorodibromomethane	129		9.843					ND	U
82 Ethylene Dibromide	107		9.952					ND	U
83 3-Chlorobenzotrifluoride	180	10.175	10.196	-0.021	1	89		NC	
85 4-Chlorobenzotrifluoride	180	10.455	10.363	0.091	1	73		NC	
84 Chlorobenzene	112		10.439					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		10.530					ND	U
87 Ethylbenzene	106		10.542					ND	U
88 m-Xylene & p-Xylene	106		10.670					ND	U
89 o-Xylene	106		11.053					ND	U
90 Styrene	104	11.081	11.078	0.003	1	1127		0.1248	
91 Bromoform	173		11.254					ND	U
92 2-Chlorobenzotrifluoride	180		11.288					ND	
93 Isopropylbenzene	105		11.424					ND	U
94 Cyclohexanone	55		11.517					ND	U
95 Bromobenzene	156		11.735					ND	U
96 1,1,2,2-Tetrachloroethane	83		11.741					ND	U
97 trans-1,4-Dichloro-2-buten	53		11.771					ND	U
98 1,2,3-Trichloropropane	110		11.789					ND	
99 N-Propylbenzene	120	11.835	11.838	-0.003	1	809		0.2055	
100 2-Chlorotoluene	126		11.929					ND	U
102 1,3,5-Trimethylbenzene	105		12.021					ND	U
101 3-Chlorotoluene	126	12.152	12.024	0.128	1	73		NC	
103 4-Chlorotoluene	126		12.051					ND	U
104 tert-Butylbenzene	119		12.337					ND	U
106 1,2,4-Trimethylbenzene	105		12.398					ND	U
107 1,2-dichloro-4-(trifluorom	214	12.468	12.468	0.000	1	179		NC	
108 sec-Butylbenzene	105		12.562					ND	
113 2,4-Dichloro-1-(trifluorom	214	12.553	12.568	-0.015	1	109		NC	
114 2,5-Dichlorobenzotrifluori	214	12.553	12.645	-0.092	1	109		NC	
109 1,3-Dichlorobenzene	146	12.669	12.678	-0.009	21	2921		0.4634	
110 4-Isopropyltoluene	119	12.718	12.714	0.004	1	1772		0.1721	
111 1,4-Dichlorobenzene	146		12.781					ND	U
112 1,2,3-Trimethylbenzene	105		12.806					ND	U
115 Benzyl chloride	91		12.898					ND	U
116 n-Butylbenzene	91	13.119	13.122	-0.003	24	3626		0.4854	M
117 1,2-Dichlorobenzene	146	13.125	13.140	-0.015	17	3203		0.5423	
118 1,2-Dibromo-3-Chloropropan	75		13.931					ND	U
119 2,4- & 2,5- & 2,6- Dichlor	125	13.959	13.995	-0.036	1	173		NC	
120 1,3,5-Trichlorobenzene	180		14.120					ND	U
121 2,3- & 3,4- Dichlorotoluen	125	14.318	14.190	0.128	1	272		NC	
122 1,2,4-Trichlorobenzene	180	14.749	14.752	-0.003	86	7145		2.53	
123 Hexachlorobutadiene	225	14.895	14.898	-0.003	14	2807		2.08	
124 Naphthalene	128	15.011	15.020	-0.009	96	19552		2.99	
125 1,2,3-Trichlorobenzene	180	15.248	15.245	0.003	87	11158		4.72	
126 2,4,5-Trichlorotoluene	159	15.765	15.759	0.006	1	375		NC	
127 2,3,6-Trichlorotoluene	159	15.765	15.759	0.006	1	375		NC	
S 130 1,2-Dichloroethene, Total	96		1.000					ND	
S 131 Xylenes, Total	106		1.000					ND	
S 132 1,3-Dichloropropene, Total	1		0.000					ND	
S 154 Total BTEX	1				0			0.2026	

**QC Flag Legend**

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

VOA8260INT\_00103

Amount Added: 2.00

Units: uL

Run Reagent

VOA8260SURR\_00103

Amount Added: 2.00

Units: uL

Run Reagent

Euofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012506.D

Injection Date: 25-Jan-2020 12:53:30

Instrument ID: CHHP6

Operator ID: 433269

Lims ID: MB

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

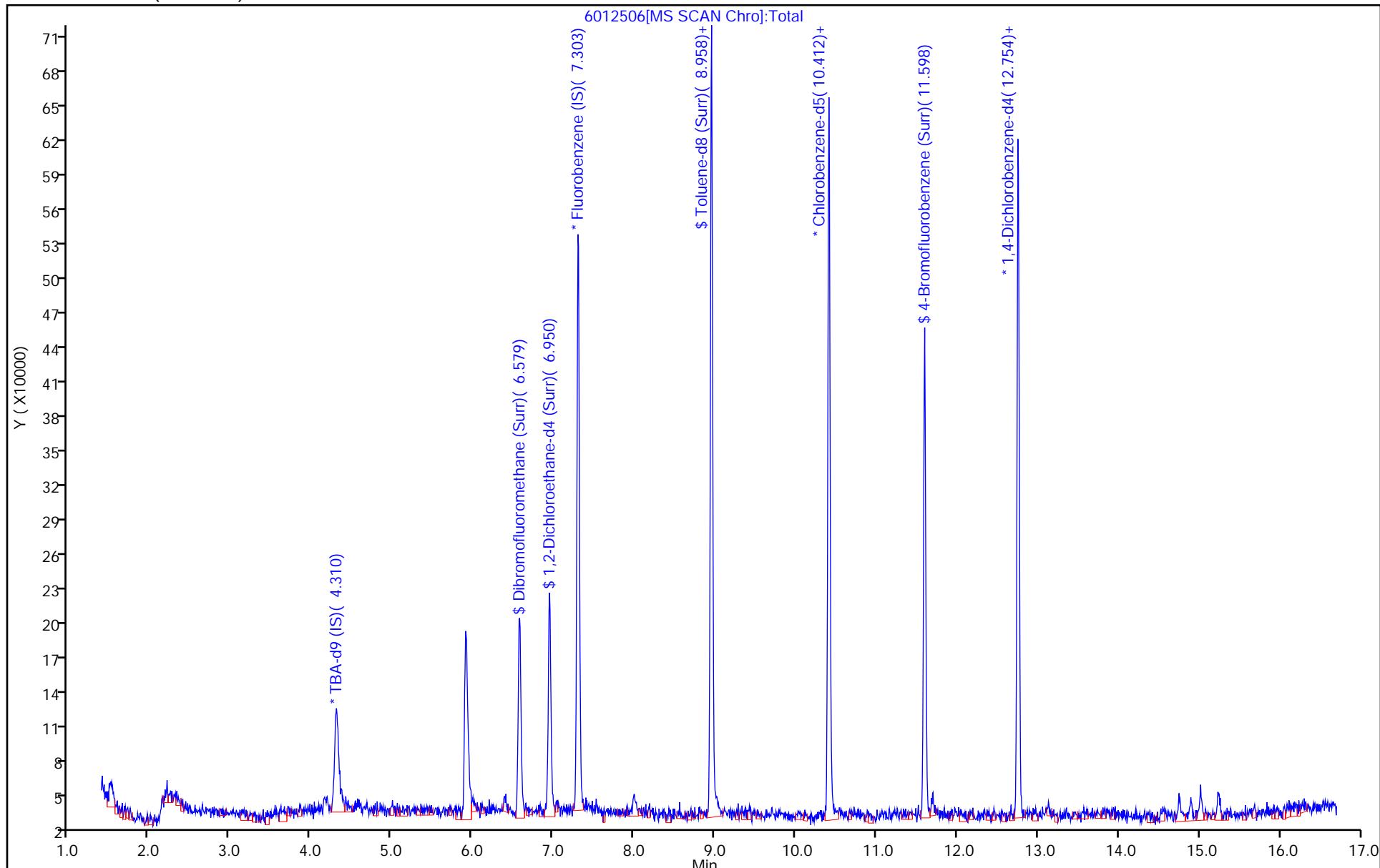
Dil. Factor: 1.0000

ALS Bottle#: 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\20200125-30512.b\6012506.D  
 Lims ID: MB  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 25-Jan-2020 12:53:30 ALS Bottle#: 6 Worklist Smp#: 6  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 180-0030512-006  
 Misc. Info.: mb  
 Operator ID: 433269 Instrument ID: CHHP6  
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\MSVOA\_LL\_CHHP6.m  
 Limit Group: VOA 8260C\_D ICAL  
 Last Update: 25-Jan-2020 16:23:53 Calib Date: 31-Dec-2019 16:03:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123111.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0321

First Level Reviewer: bowieh Date: 25-Jan-2020 16:23:53

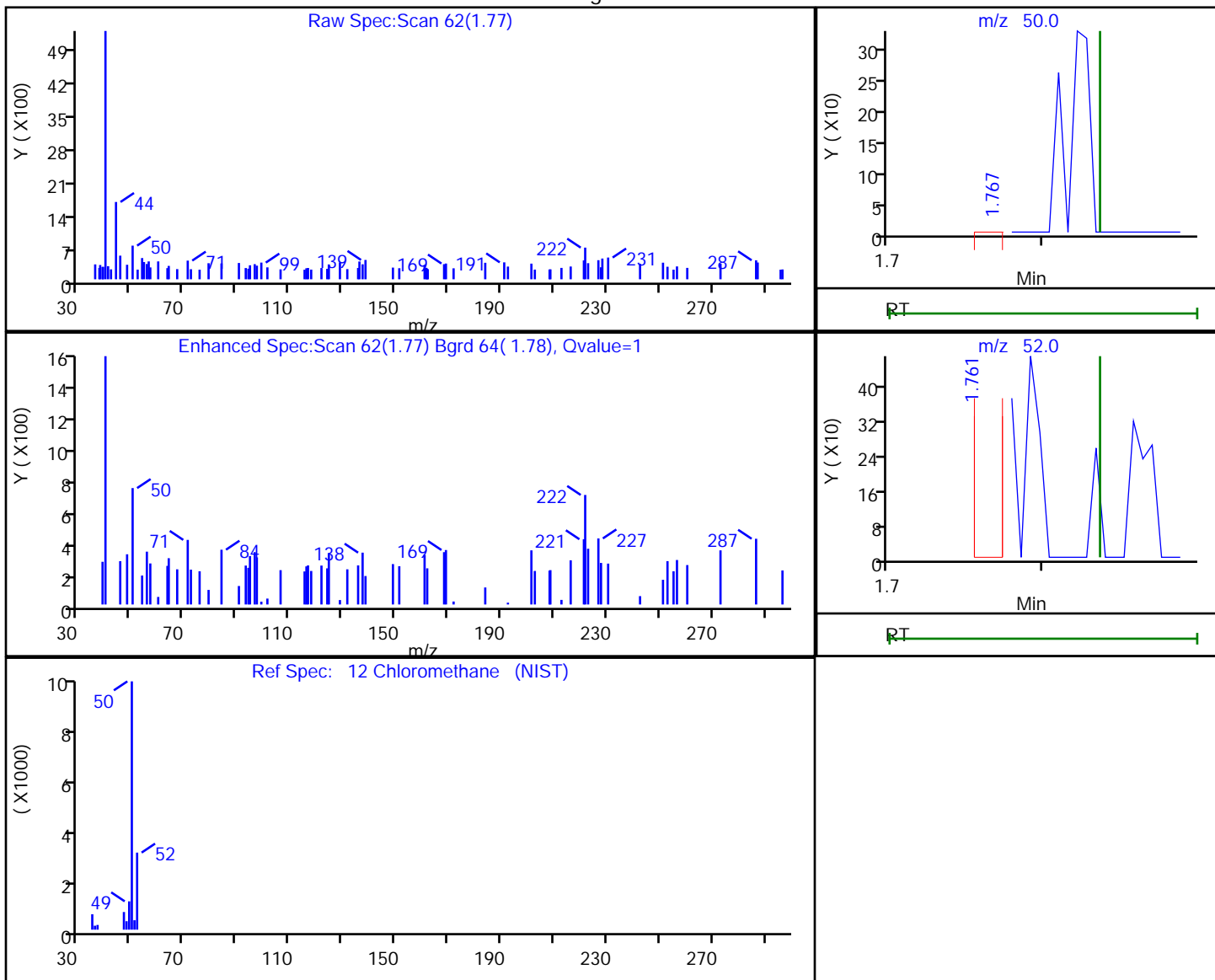
Compound	Amount Added	Amount Recovered	% Rec.
\$ 5 Dibromofluoromethane (Surr)	50.0	50.7	101.47
\$ 6 1,2-Dichloroethane-d4 (Surr)	50.0	56.6	113.11
\$ 7 Toluene-d8 (Surr)	50.0	48.8	97.62
\$ 8 4-Bromofluorobenzene (Surr)	50.0	41.9	83.78

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012506.D  
Injection Date: 25-Jan-2020 12:53:30 Instrument ID: CHHP6  
Lims ID: MB  
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

12 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
1.77	50.00	379	0.092431
1.76	52.00	219	

Reviewer: bowieh, 25-Jan-2020 16:20:48

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

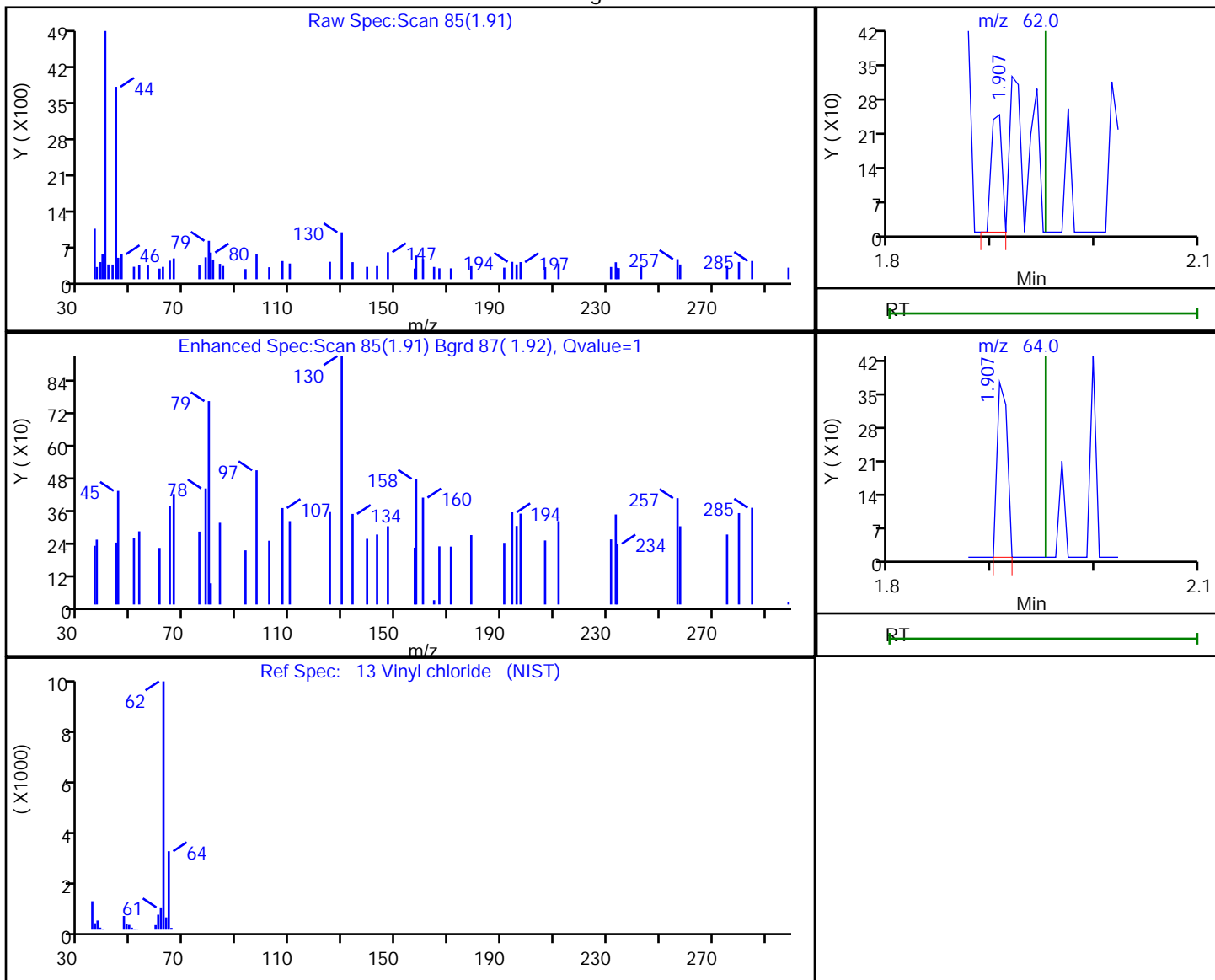


Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012506.D  
 Injection Date: 25-Jan-2020 12:53:30 Instrument ID: CHHP6  
 Lims ID: MB  
 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

13 Vinyl chloride, CAS: 75-01-4

Processing Results



RT	Mass	Response	Amount
1.91	62.00	175	0.049596
1.91	64.00	251	

Reviewer: bowieh, 25-Jan-2020 16:20:49

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012506.D

Injection Date: 25-Jan-2020 12:53:30

Instrument ID: CHHP6

Lims ID: MB

Client ID:

Operator ID: 433269

ALS Bottle#: 6

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: MSVOA\_LL\_CHHP6

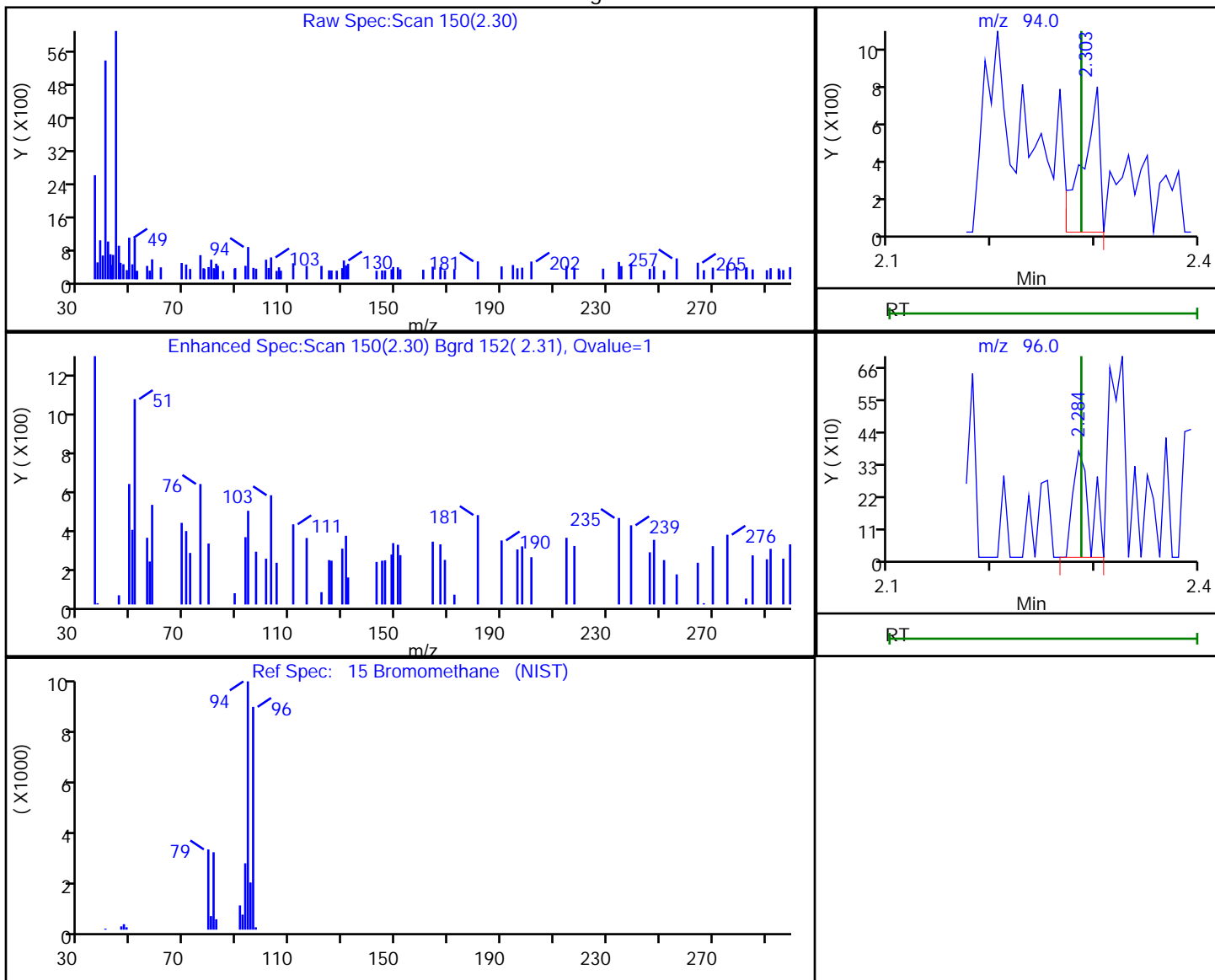
Limit Group: VOA 8260C\_D ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

15 Bromomethane, CAS: 74-83-9

Processing Results



RT	Mass	Response	Amount
2.30	94.00	904	0.401564
2.28	96.00	425	

Reviewer: bowieh, 25-Jan-2020 16:20:51

Audit Action: Marked Compound Undetected

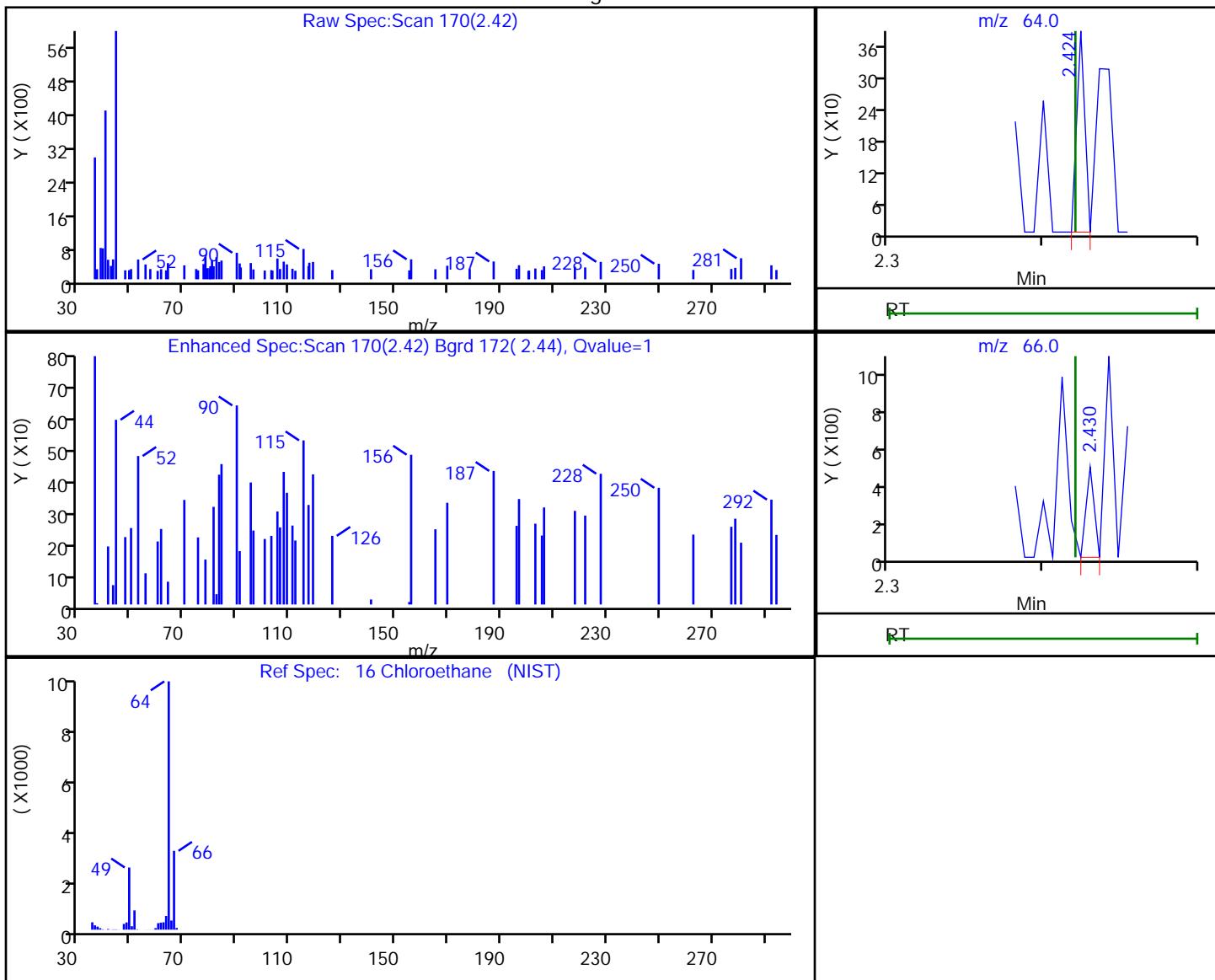
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012506.D  
Injection Date: 25-Jan-2020 12:53:30 Instrument ID: CHHP6  
Lims ID: MB  
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

16 Chloroethane, CAS: 75-00-3

Processing Results



RT	Mass	Response	Amount
2.42	64.00	142	0.055257
2.43	66.00	180	

Reviewer: bowieh, 25-Jan-2020 16:20:52

Audit Action: Marked Compound Undetected

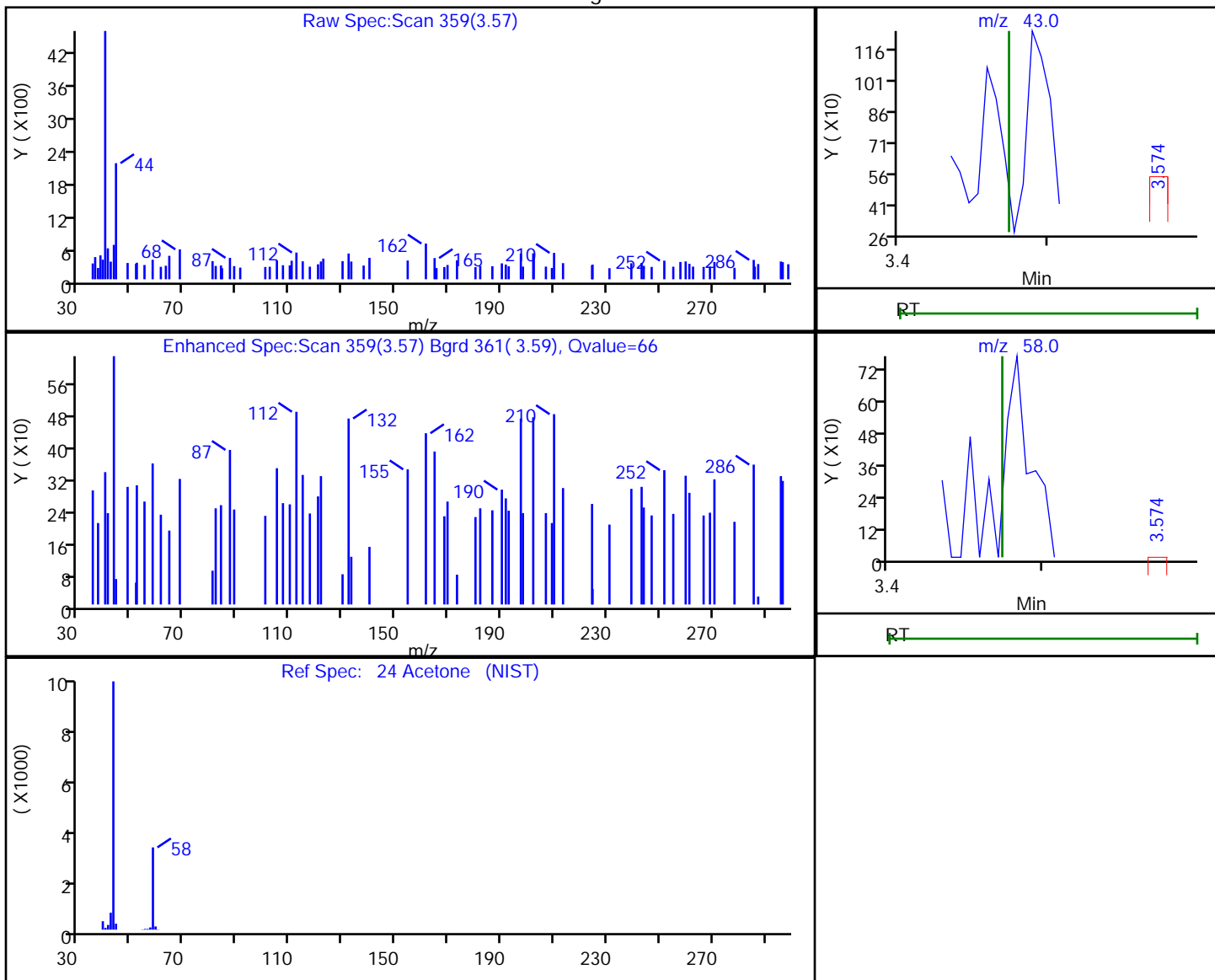
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012506.D  
 Injection Date: 25-Jan-2020 12:53:30 Instrument ID: CHHP6  
 Lims ID: MB  
 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

24 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
3.57	43.00	314	0.239105
3.57	58.00	130	

Reviewer: bowieh, 25-Jan-2020 16:21:07

Audit Action: Marked Compound Undetected

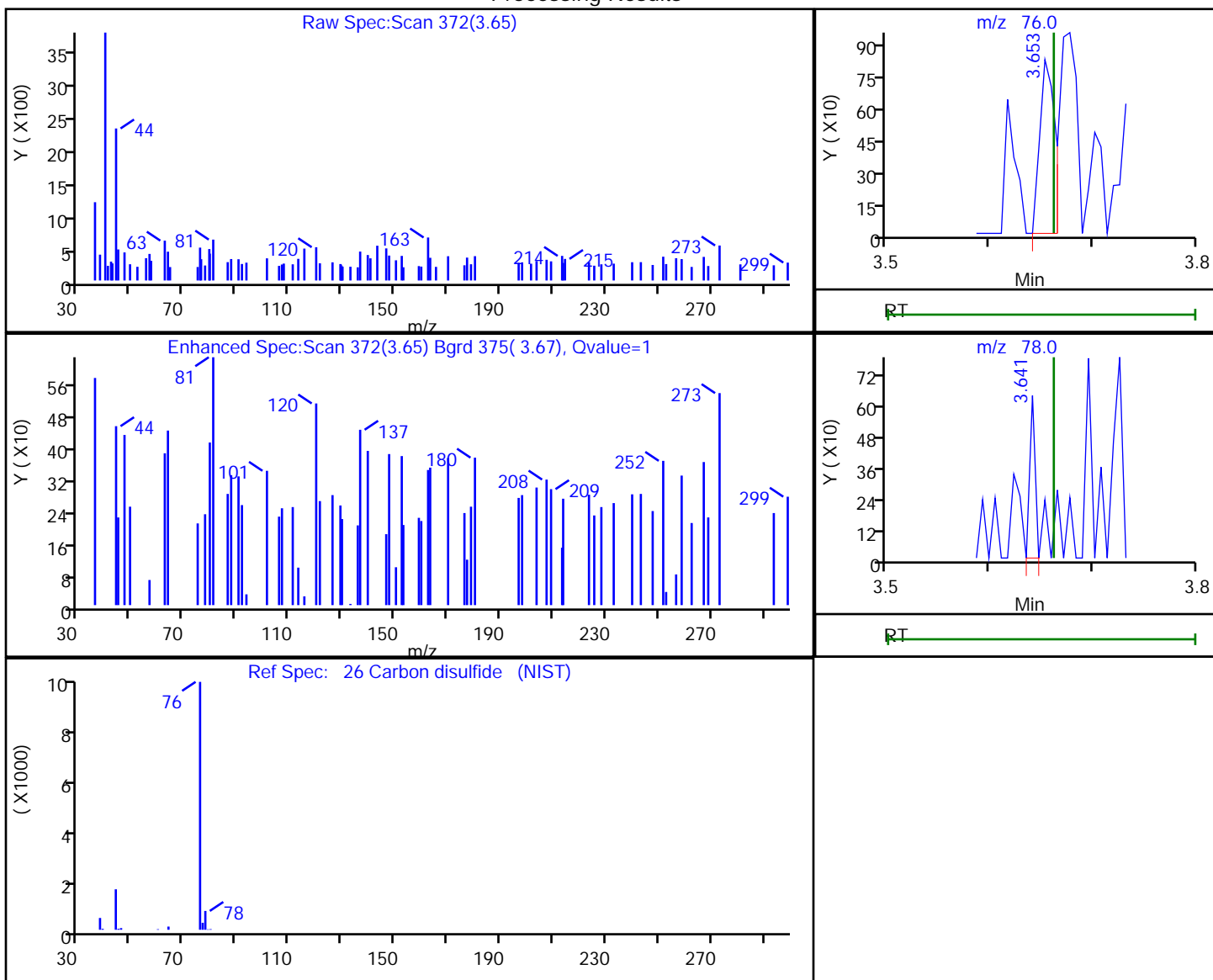
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012506.D  
 Injection Date: 25-Jan-2020 12:53:30 Instrument ID: CHHP6  
 Lims ID: MB  
 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

26 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
3.65	76.00	851	0.146820
3.64	78.00	232	

Reviewer: bowieh, 25-Jan-2020 16:21:09

Audit Action: Marked Compound Undetected

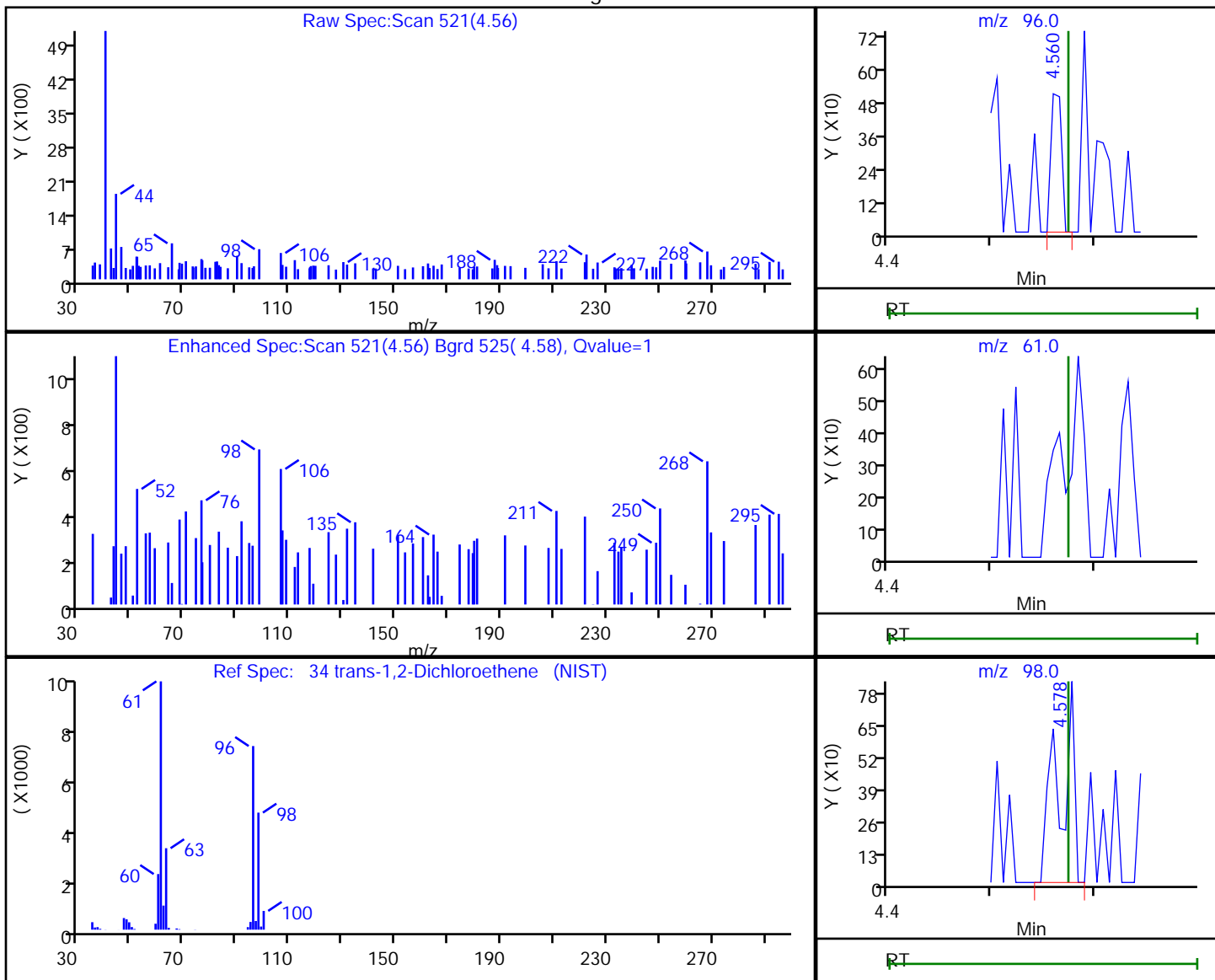
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Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012506.D  
 Injection Date: 25-Jan-2020 12:53:30 Instrument ID: CHHP6  
 Lims ID: MB  
 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

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

Processing Results



RT	Mass	Response	Amount
4.56	96.00	368	0.125642
4.57	61.00	0	
4.58	98.00	830	

Reviewer: bowieh, 25-Jan-2020 16:21:17

Audit Action: Marked Compound Undetected

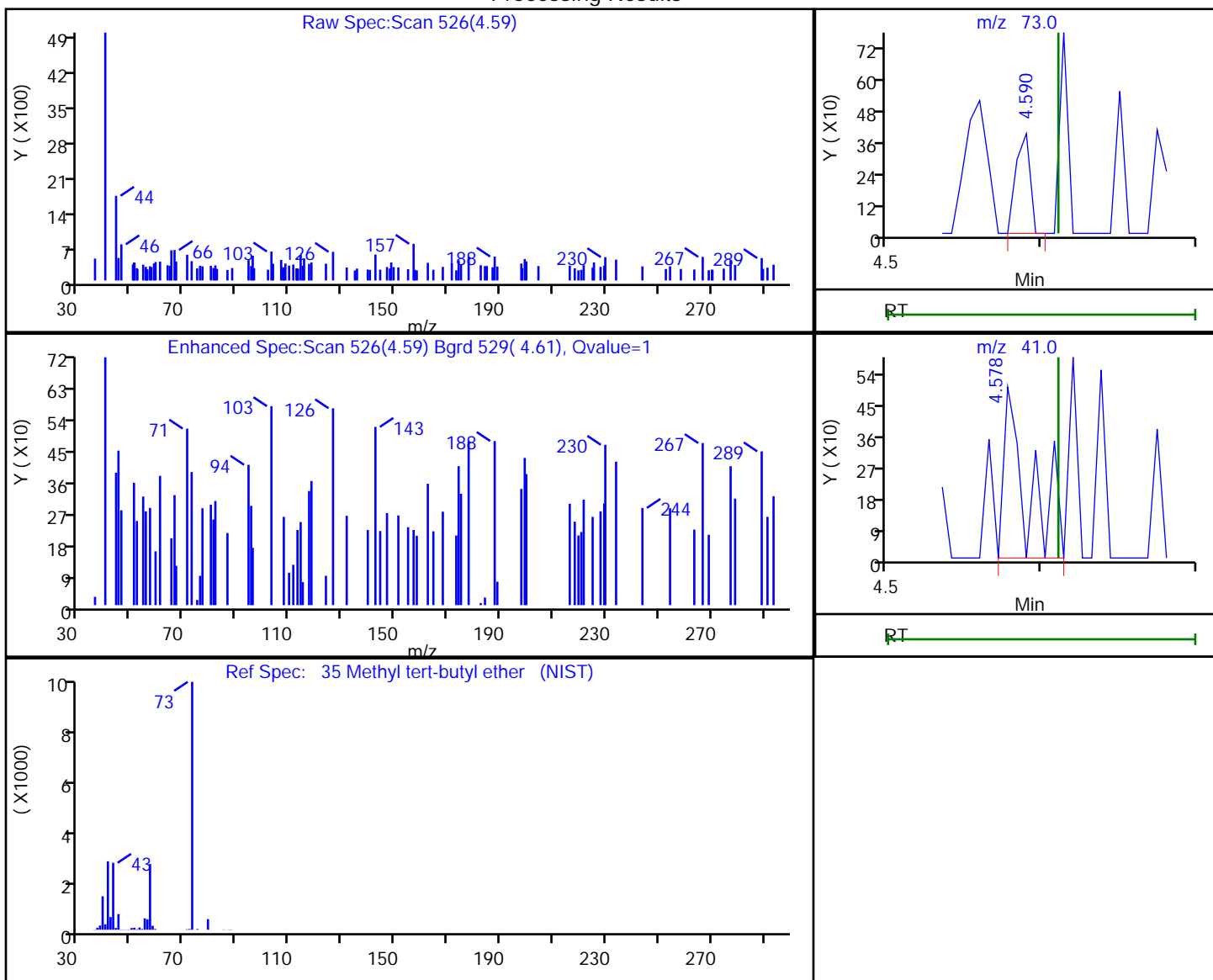
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012506.D  
 Injection Date: 25-Jan-2020 12:53:30 Instrument ID: CHHP6  
 Lims ID: MB  
 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

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

Processing Results



RT	Mass	Response	Amount
4.59	73.00	245	0.043179
4.58	41.00	543	

Reviewer: bowieh, 25-Jan-2020 16:21:19

Audit Action: Marked Compound Undetected

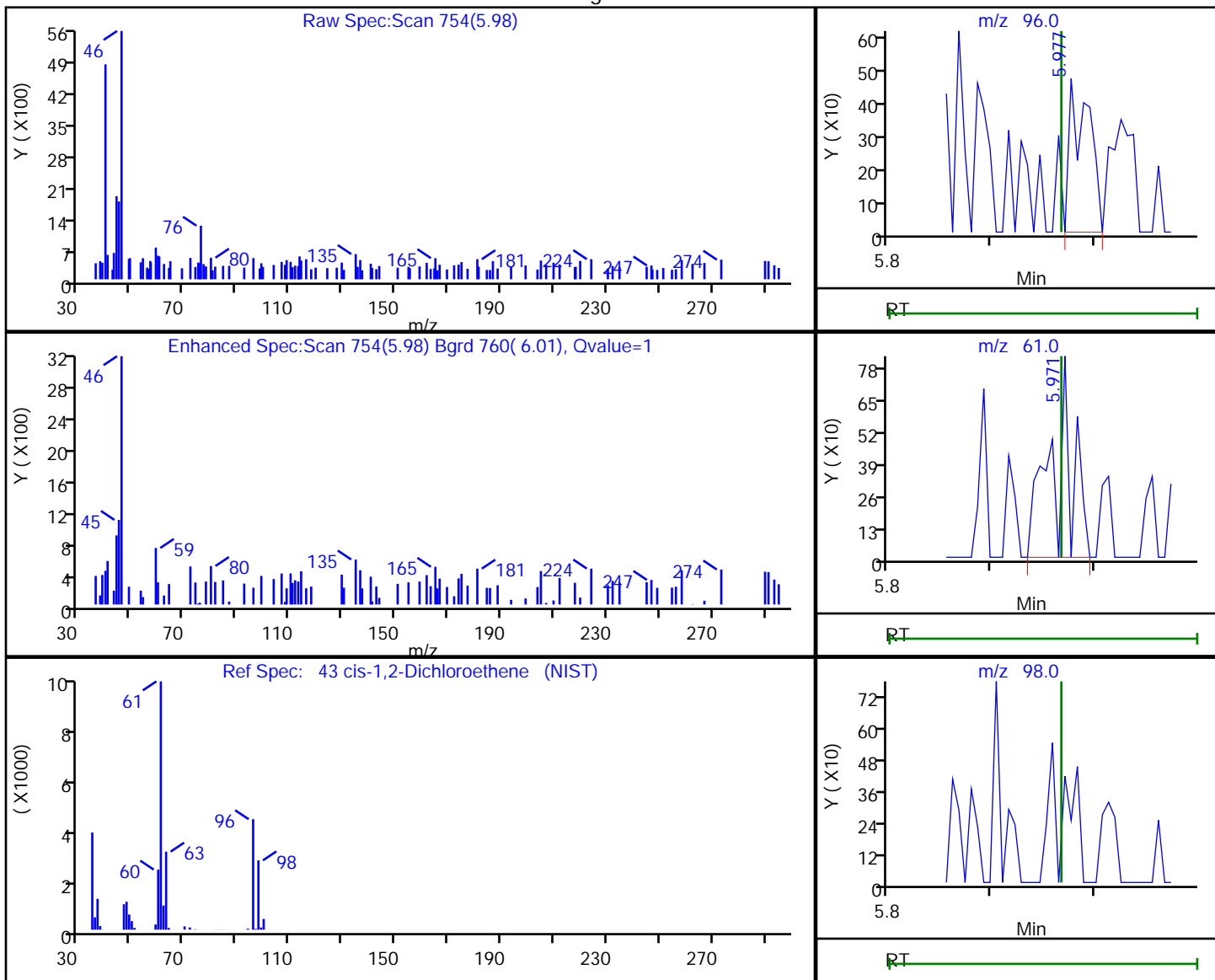
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012506.D  
 Injection Date: 25-Jan-2020 12:53:30 Instrument ID: CHHP6  
 Lims ID: MB  
 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

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

Processing Results



RT	Mass	Response	Amount
5.98	96.00	622	0.197231
5.97	61.00	1149	
5.97	98.00	0	

Reviewer: bowieh, 25-Jan-2020 16:21:27

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

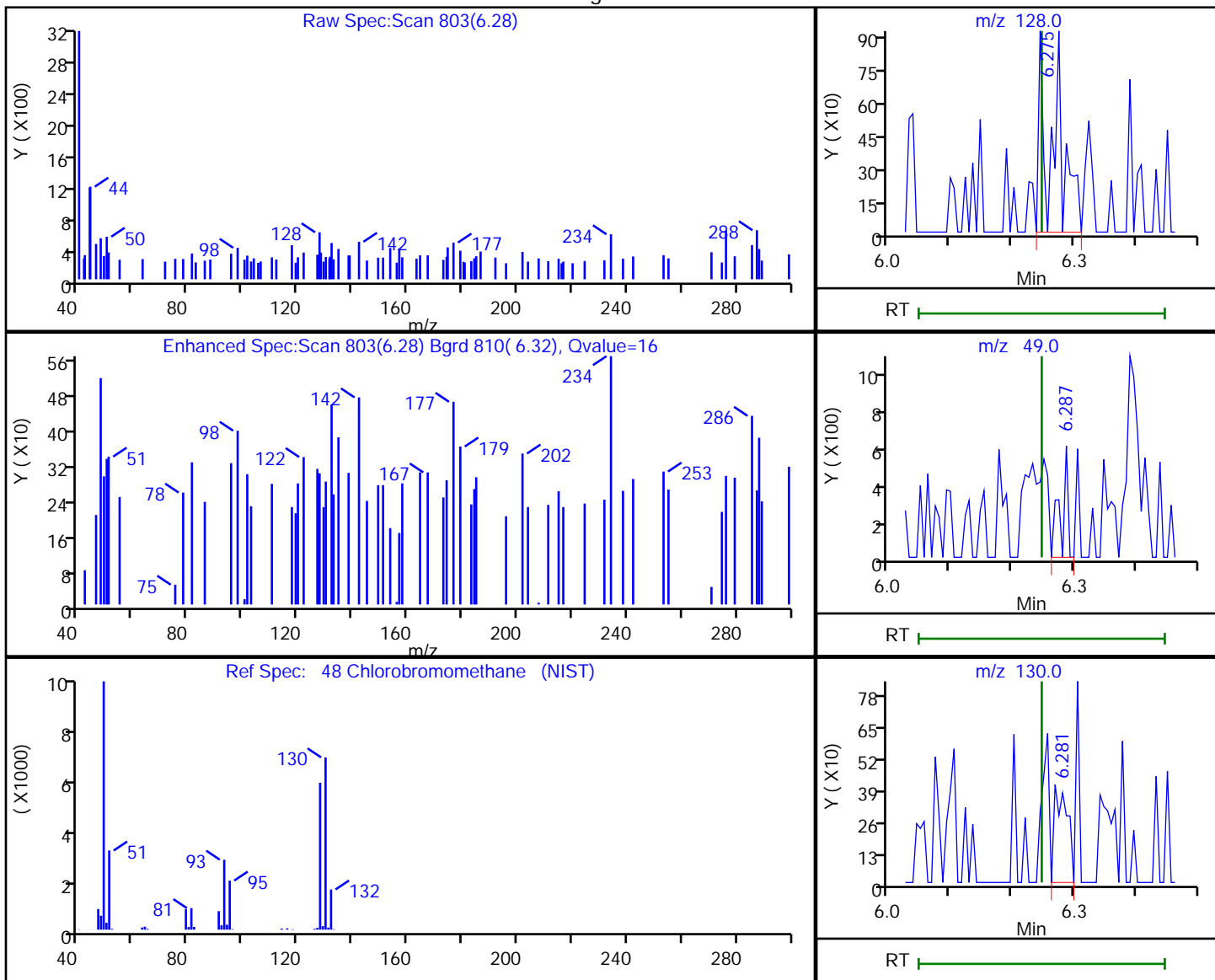


Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012506.D  
 Injection Date: 25-Jan-2020 12:53:30 Instrument ID: CHHP6  
 Lims ID: MB  
 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

48 Chlorobromomethane, CAS: 74-97-5

Processing Results



RT	Mass	Response	Amount
6.28	128.00	1514	0.932994
6.29	49.00	419	
6.28	130.00	590	

Reviewer: bowieh, 25-Jan-2020 16:21:35

Audit Action: Marked Compound Undetected

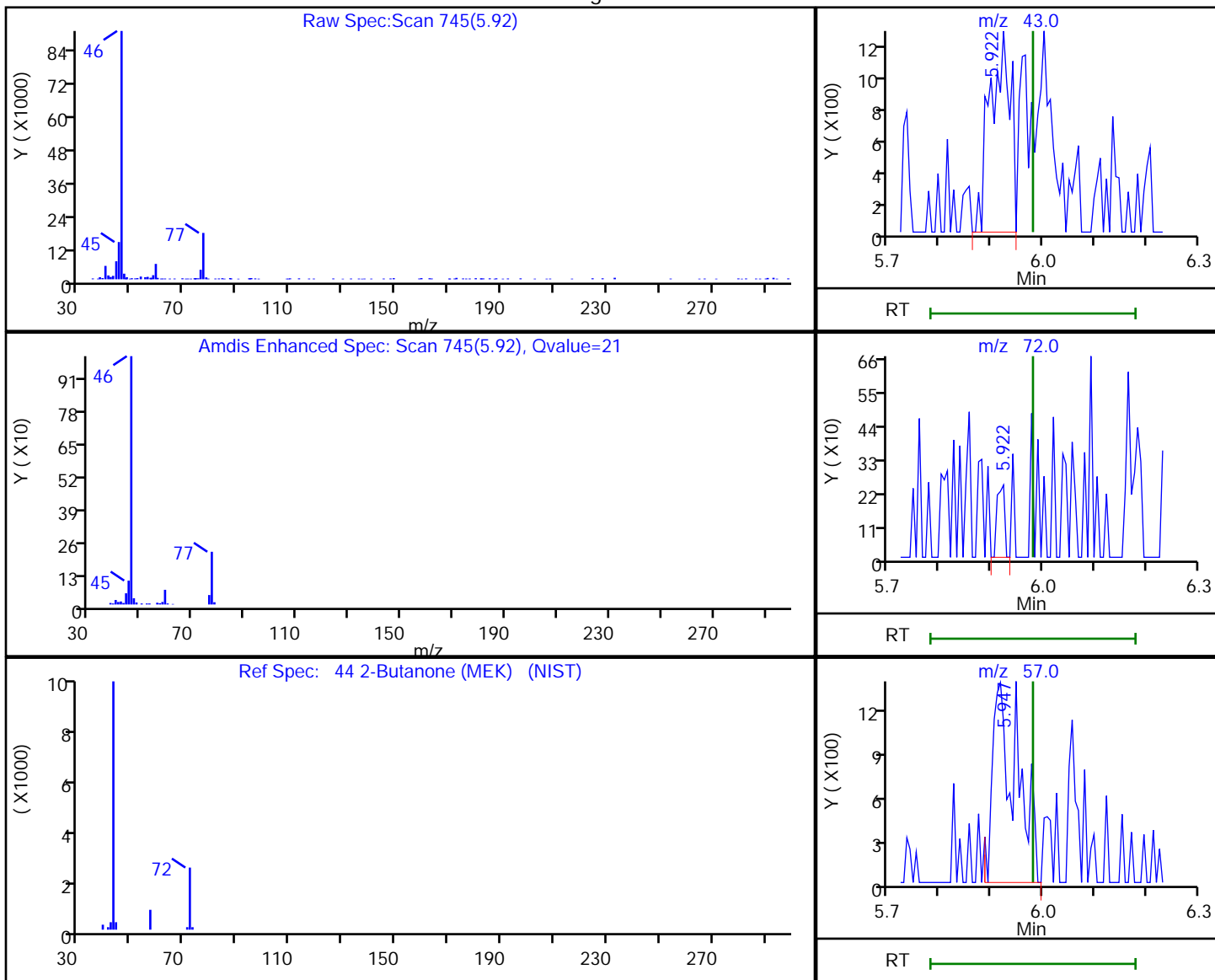
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012506.D  
 Injection Date: 25-Jan-2020 12:53:30 Instrument ID: CHHP6  
 Lims ID: MB  
 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

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

Processing Results



RT	Mass	Response	Amount
5.92	43.00	3372	2.041352
5.92	72.00	242	
5.95	57.00	4240	

Reviewer: bowieh, 25-Jan-2020 16:21:30

Audit Action: Marked Compound Undetected

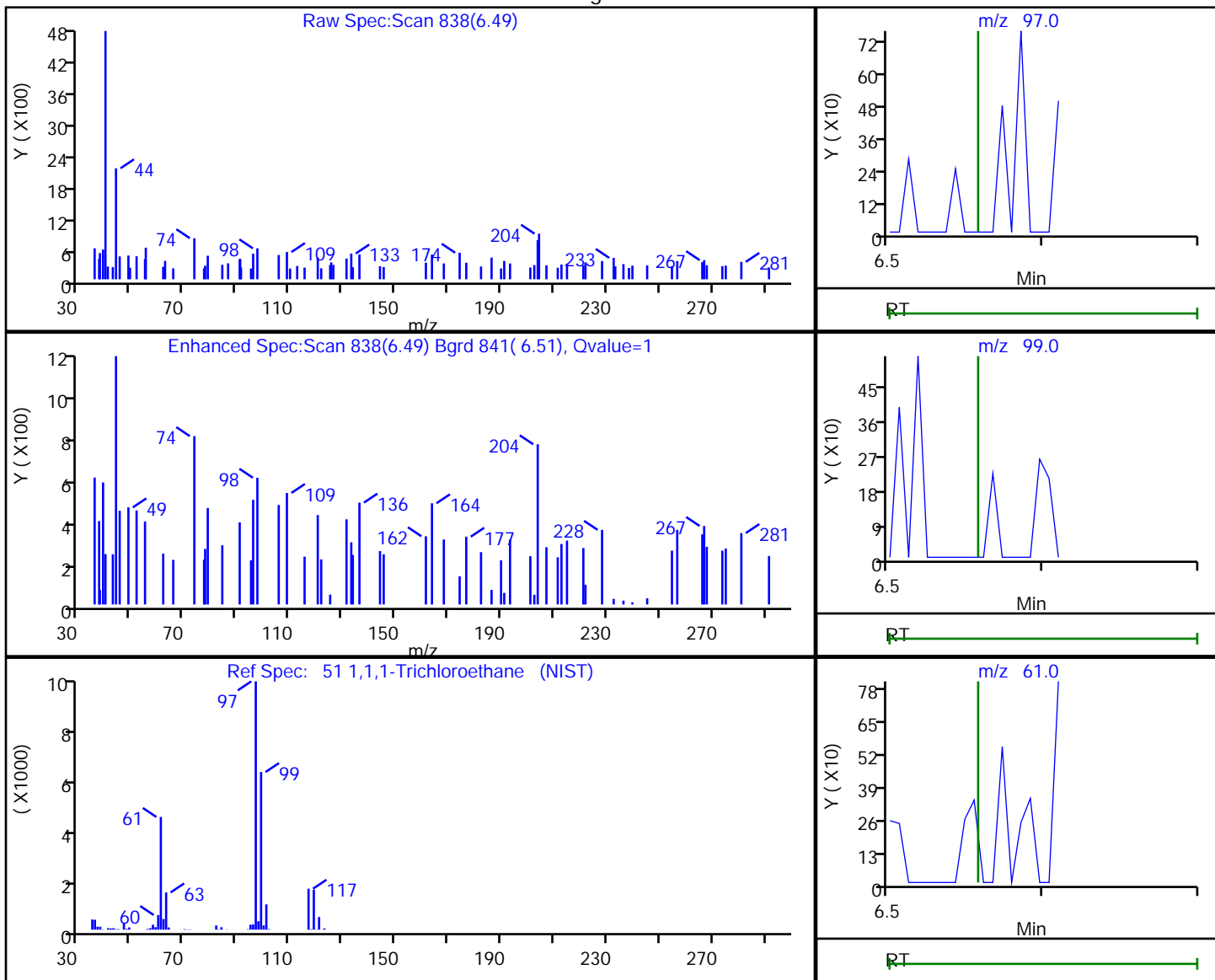
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Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012506.D  
 Injection Date: 25-Jan-2020 12:53:30 Instrument ID: CHHP6  
 Lims ID: MB  
 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

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

Processing Results



RT	Mass	Response	Amount
6.49	97.00	382	0.105229
6.49	99.00	104	
6.50	61.00	176	

Reviewer: bowieh, 25-Jan-2020 16:21:40

Audit Action: Marked Compound Undetected

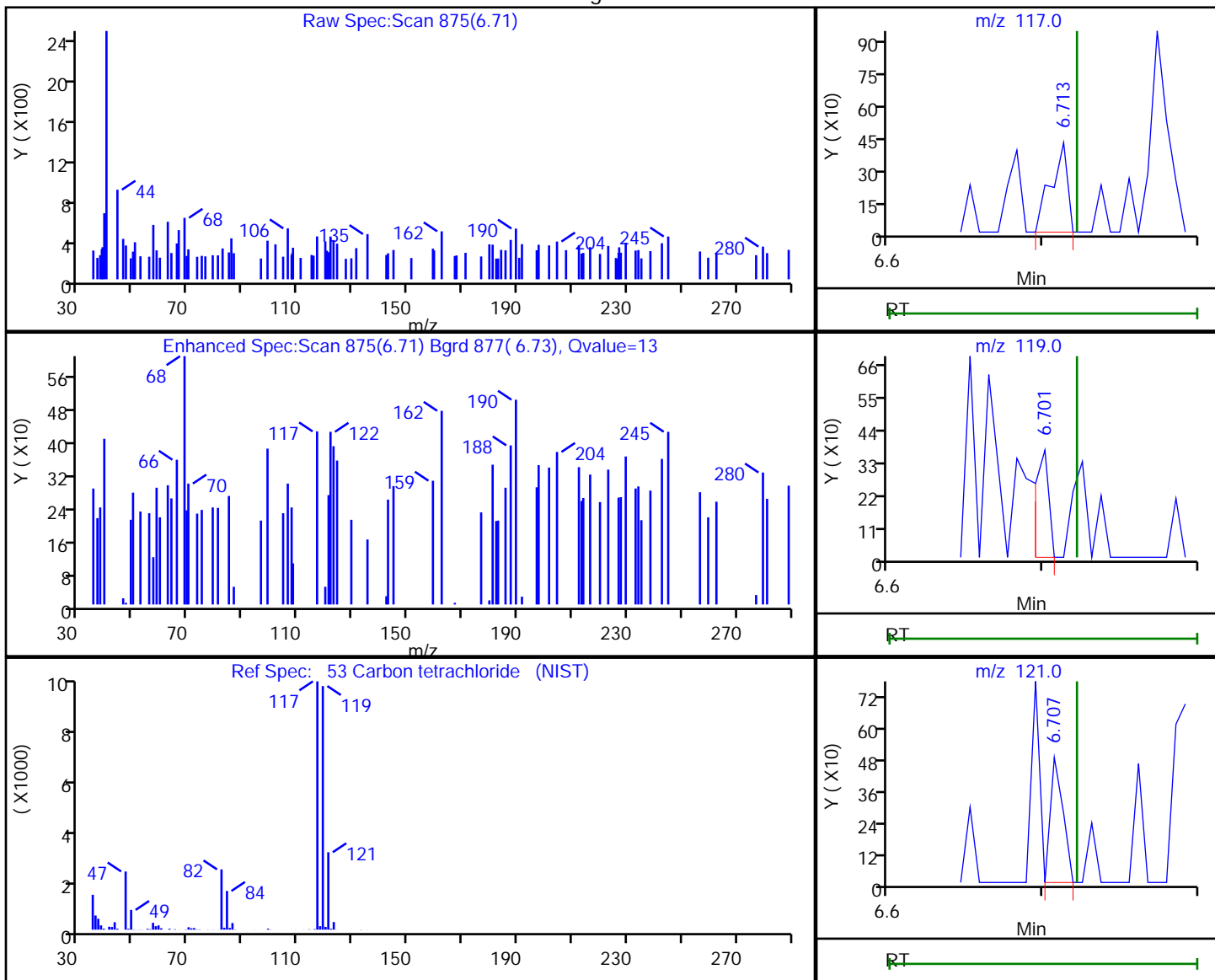
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012506.D  
 Injection Date: 25-Jan-2020 12:53:30 Instrument ID: CHHP6  
 Lims ID: MB  
 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

53 Carbon tetrachloride, CAS: 56-23-5

Processing Results



RT	Mass	Response	Amount
6.71	117.00	311	0.101867
6.70	119.00	226	
6.71	121.00	273	

Reviewer: bowieh, 25-Jan-2020 16:21:42

Audit Action: Marked Compound Undetected

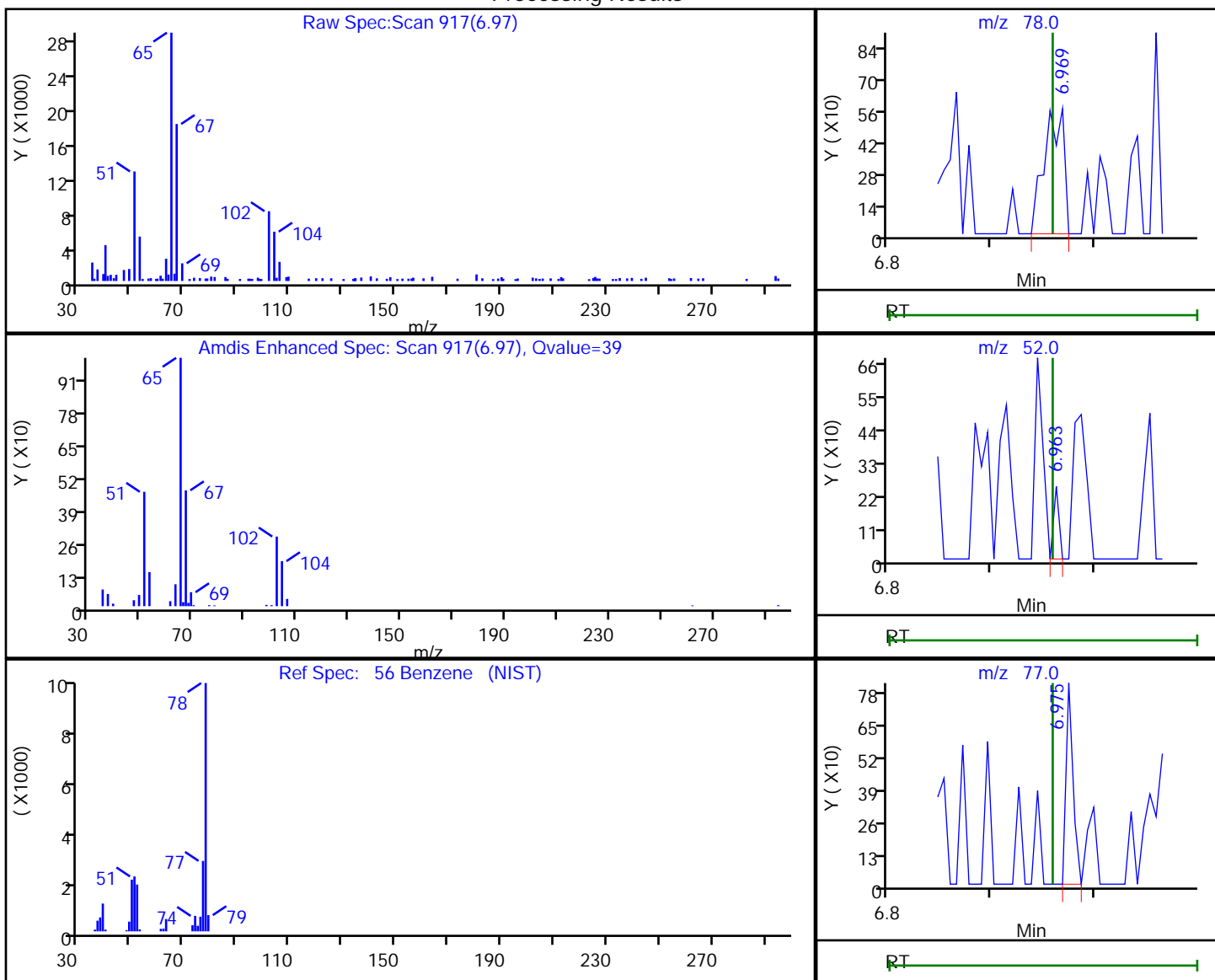
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012506.D  
 Injection Date: 25-Jan-2020 12:53:30 Instrument ID: CHHP6  
 Lims ID: MB  
 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

56 Benzene, CAS: 71-43-2

Processing Results



RT	Mass	Response	Amount
6.97	78.00	743	0.063895
6.96	52.00	88	
6.97	77.00	388	

Reviewer: bowieh, 25-Jan-2020 16:21:46

Audit Action: Marked Compound Undetected

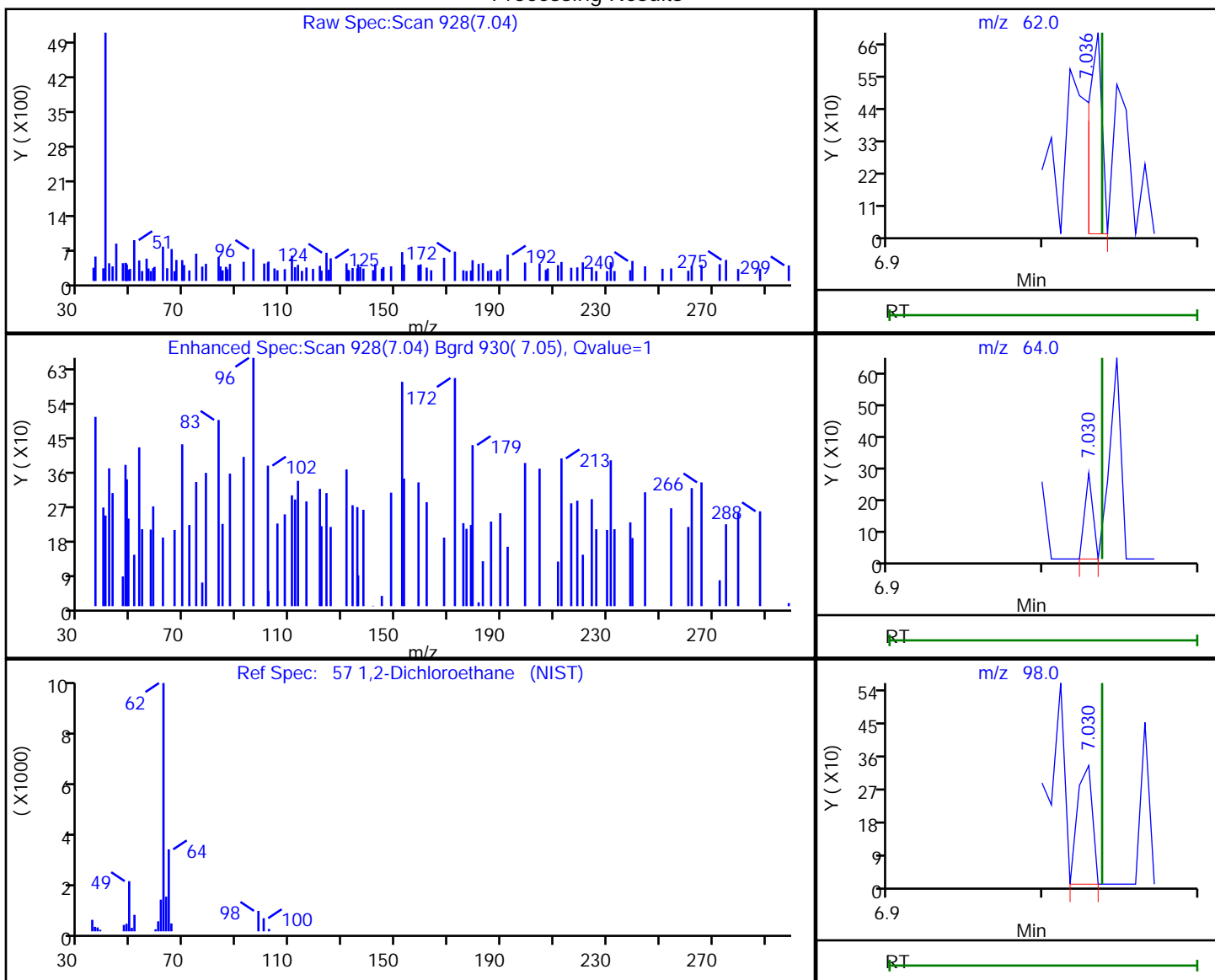
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012506.D  
 Injection Date: 25-Jan-2020 12:53:30 Instrument ID: CHHP6  
 Lims ID: MB  
 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

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

Processing Results



RT	Mass	Response	Amount
7.04	62.00	422	0.131762
7.03	64.00	100	
7.03	98.00	219	

Reviewer: bowieh, 25-Jan-2020 16:21:47

Audit Action: Marked Compound Undetected

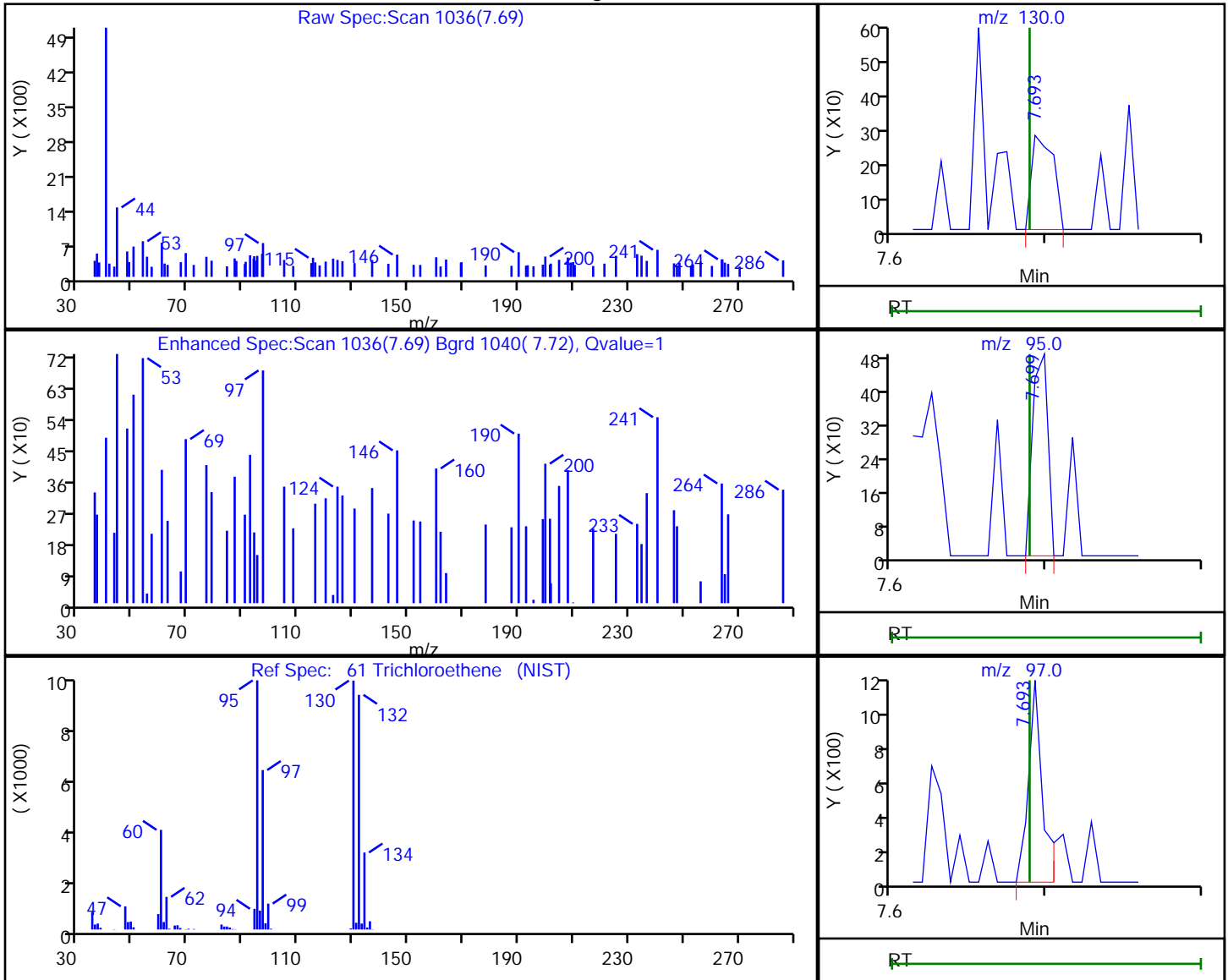
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012506.D  
 Injection Date: 25-Jan-2020 12:53:30 Instrument ID: CHHP6  
 Lims ID: MB  
 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

61 Trichloroethene, CAS: 79-01-6

Processing Results



RT	Mass	Response	Amount
7.69	130.00	270	0.078330
7.70	95.00	330	
7.69	97.00	730	

Reviewer: bowieh, 25-Jan-2020 16:21:53

Audit Action: Marked Compound Undetected

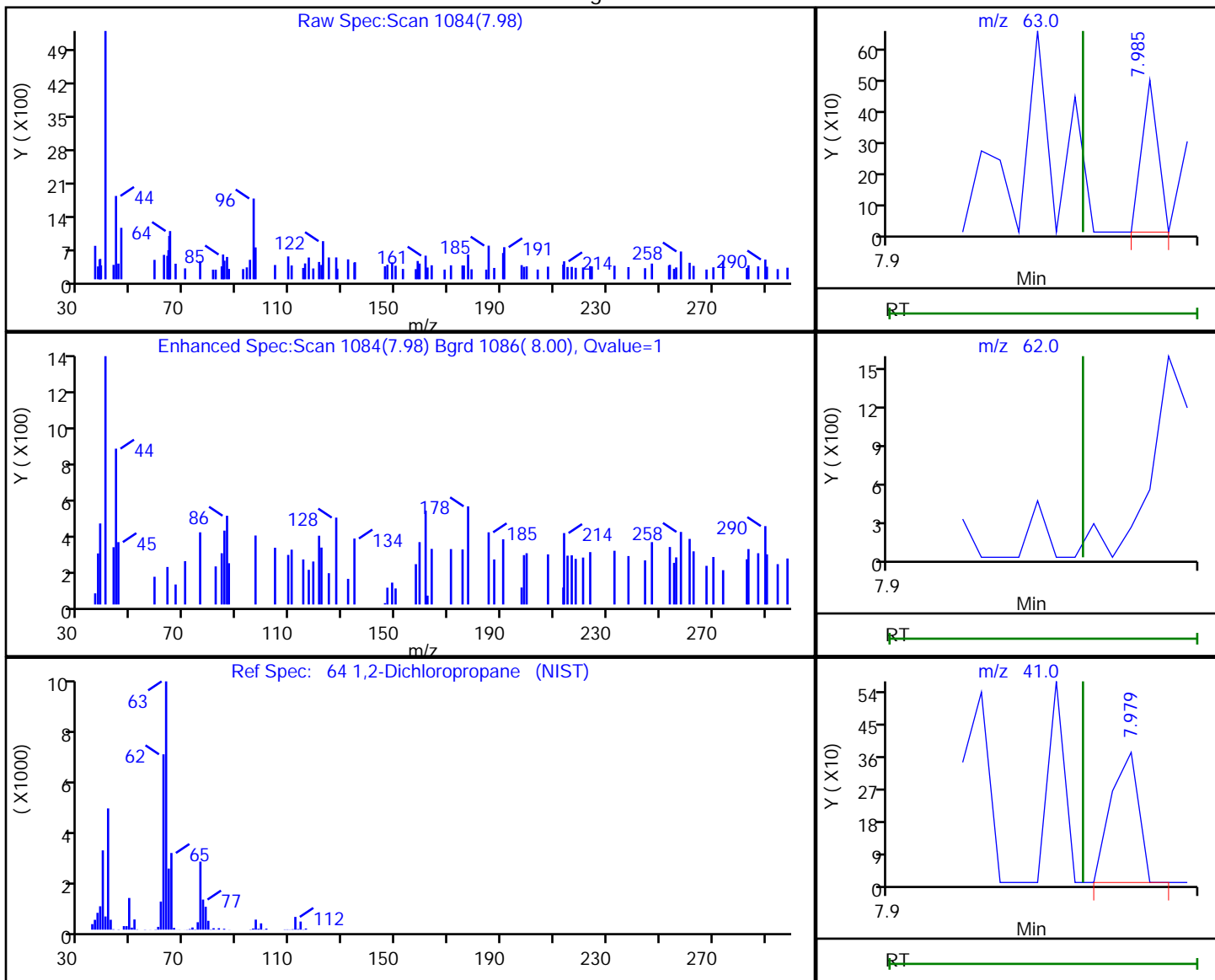
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012506.D  
 Injection Date: 25-Jan-2020 12:53:30 Instrument ID: CHHP6  
 Lims ID: MB  
 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

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

Processing Results



RT	Mass	Response	Amount
7.98	63.00	180	0.066126
7.99	62.00	1550	
7.98	41.00	225	

Reviewer: bowieh, 25-Jan-2020 16:21:57

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

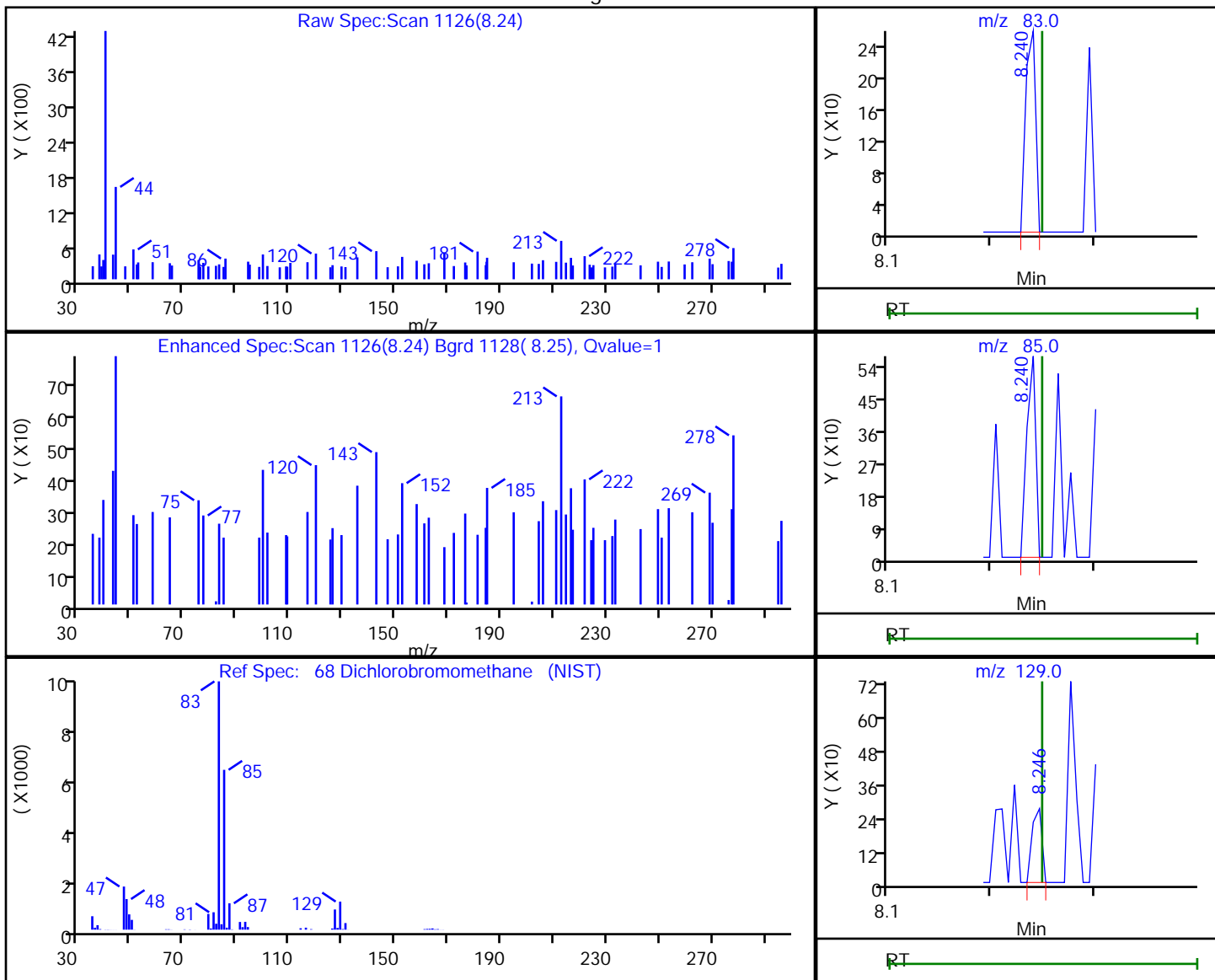


Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012506.D  
 Injection Date: 25-Jan-2020 12:53:30 Instrument ID: CHHP6  
 Lims ID: MB  
 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

68 Dichlorobromomethane, CAS: 75-27-4

Processing Results



RT	Mass	Response	Amount
8.24	83.00	170	0.066811
8.24	85.00	339	
8.25	129.00	178	

Reviewer: bowieh, 25-Jan-2020 16:22:02

Audit Action: Marked Compound Undetected

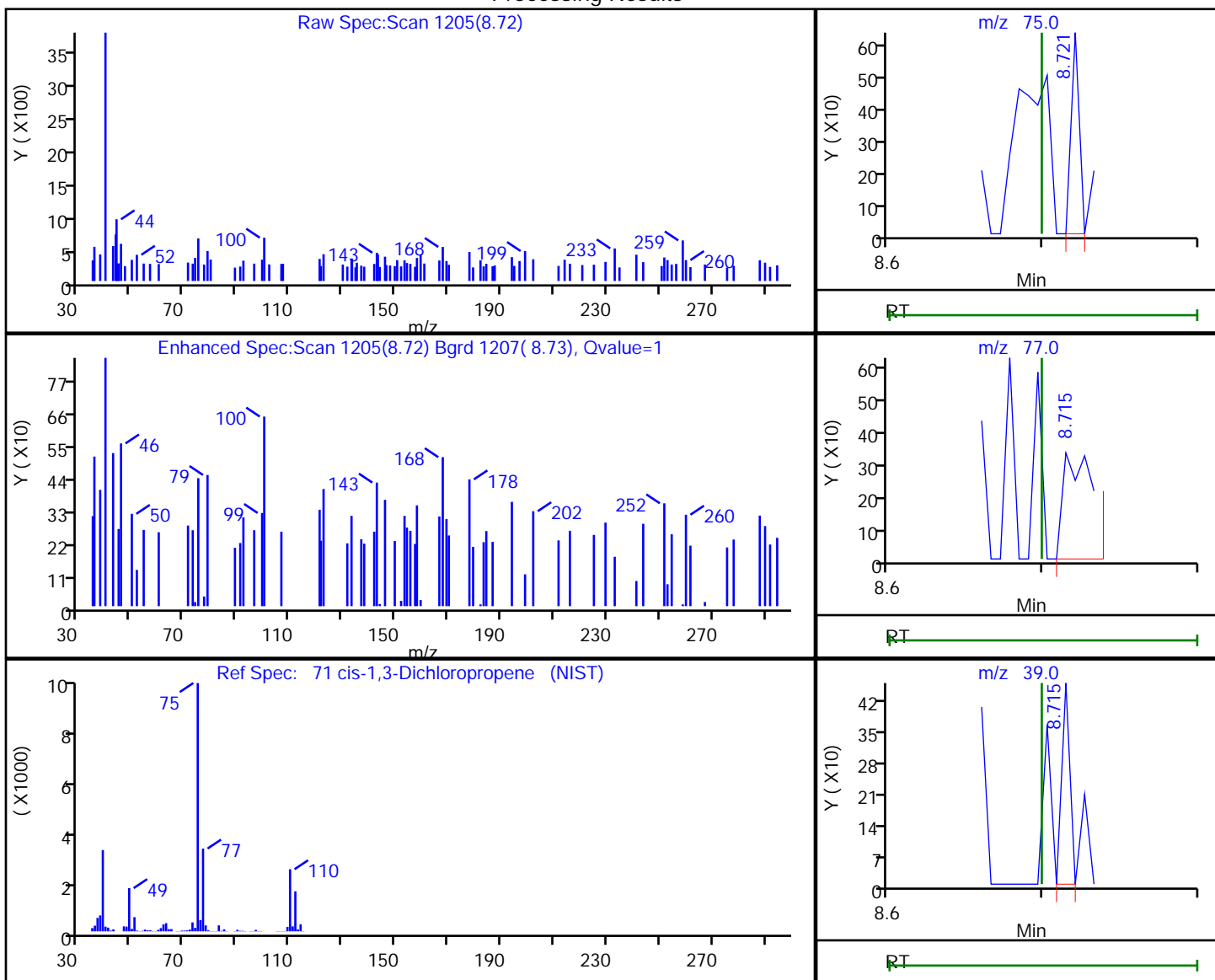
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012506.D  
 Injection Date: 25-Jan-2020 12:53:30 Instrument ID: CHHP6  
 Lims ID: MB  
 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

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

Processing Results



RT	Mass	Response	Amount
8.72	75.00	233	0.070810
8.71	77.00	407	
8.71	39.00	166	

Reviewer: bowieh, 25-Jan-2020 16:22:04

Audit Action: Marked Compound Undetected

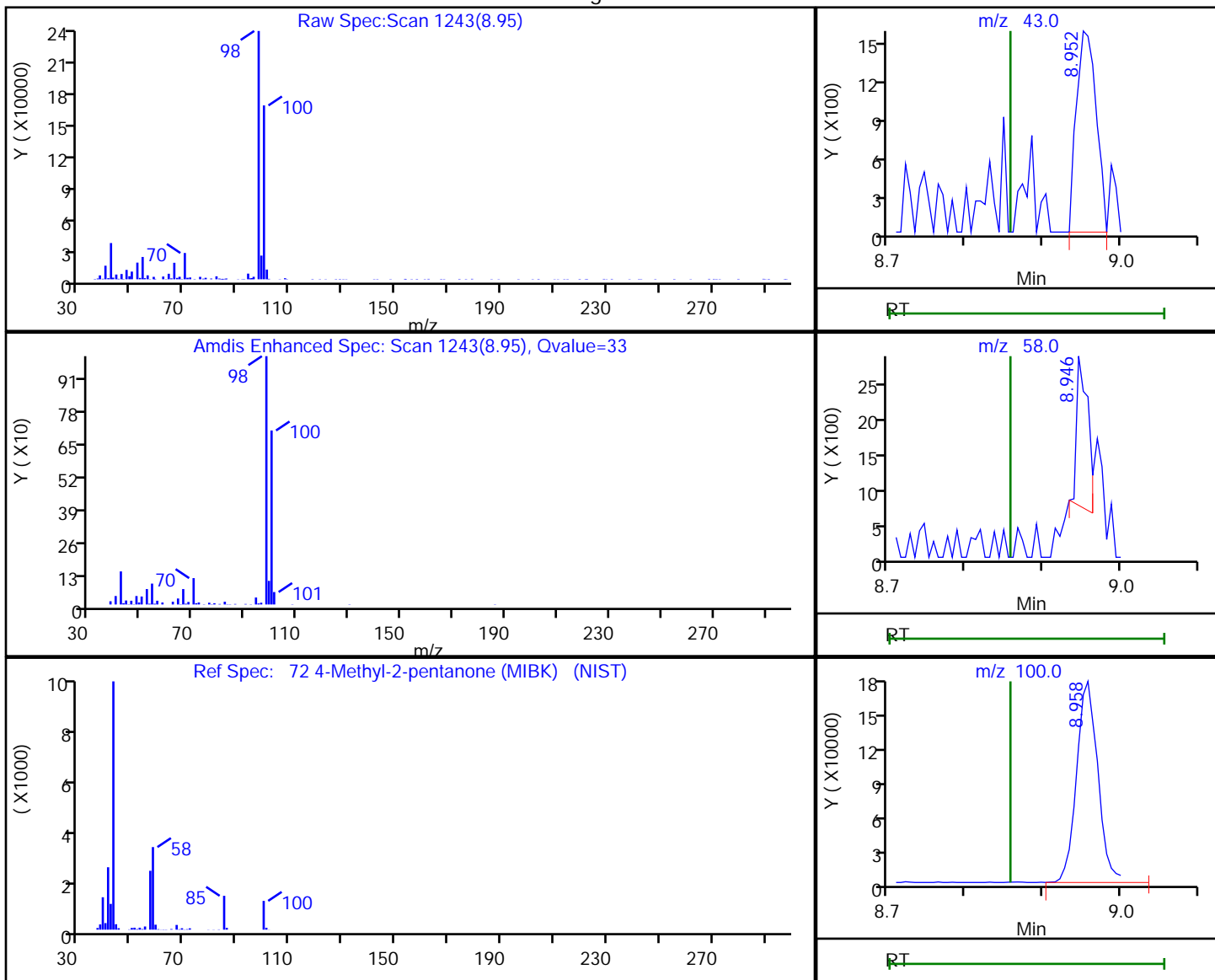
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012506.D  
 Injection Date: 25-Jan-2020 12:53:30 Instrument ID: CHHP6  
 Lims ID: MB  
 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

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

Processing Results



RT	Mass	Response	Amount
8.95	43.00	2773	1.125403
8.95	58.00	2153	
8.96	100.00	346966	

Reviewer: bowieh, 25-Jan-2020 16:22:06

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

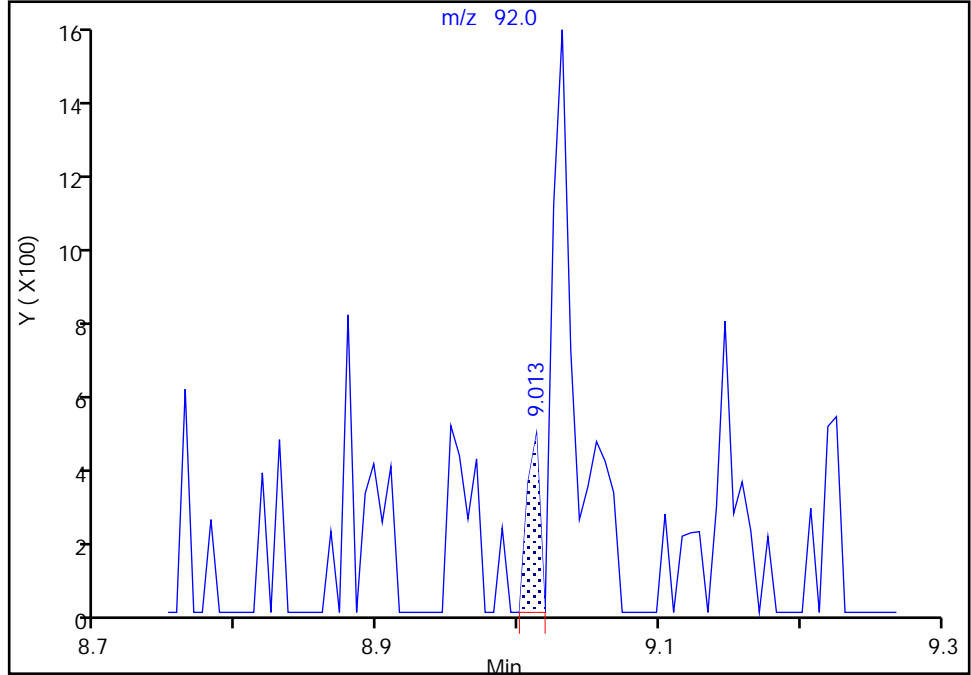
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Injection Date: 25-Jan-2020 12:53:30 Instrument ID: CHHP6  
Lims ID: MB  
Client ID:  
Operator ID: 433269 ALS Bottle#: 6 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
Column: DB-624 (0.18 mm) Detector: MS SCAN

73 Toluene, CAS: 108-88-3

Signal: 2

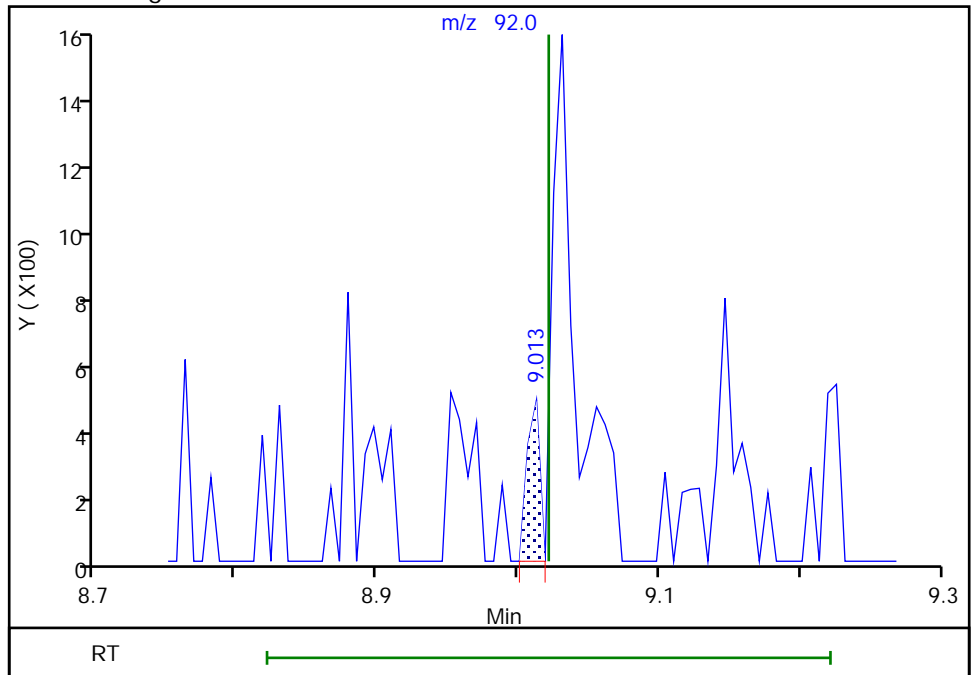
RT: 9.01  
Area: 298  
Amount: 0.133470  
Amount Units: ng

Processing Integration Results



RT: 9.01  
Area: 298  
Amount: 0.202648  
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 25-Jan-2020 16:22:07  
Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID  
Page 832 of 880

Eurofins TestAmerica, Pittsburgh

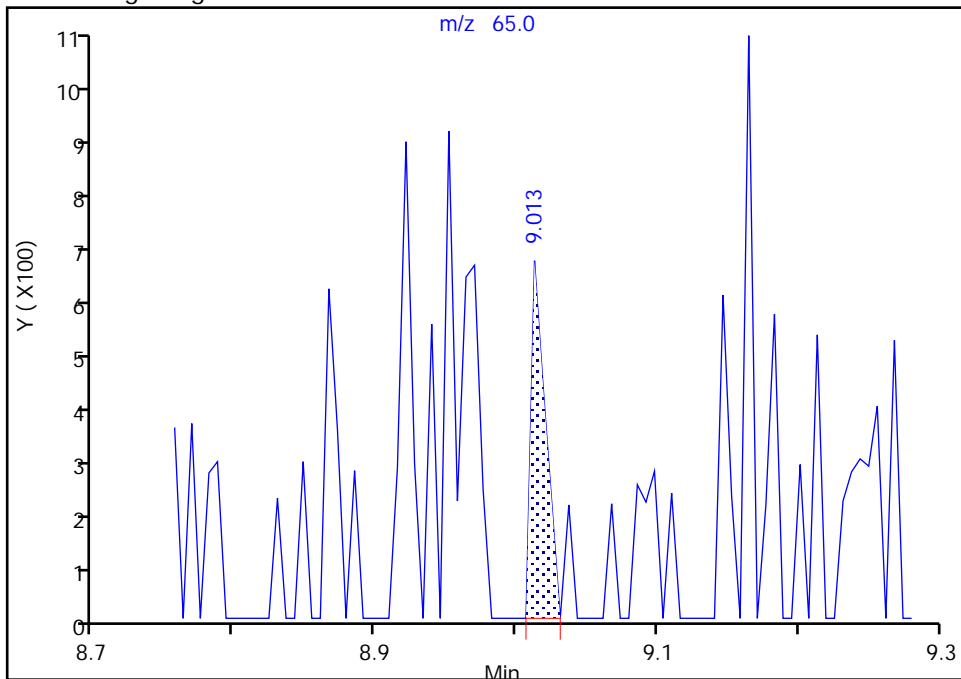
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Injection Date: 25-Jan-2020 12:53:30 Instrument ID: CHHP6  
Lims ID: MB  
Client ID:  
Operator ID: 433269 ALS Bottle#: 6 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
Column: DB-624 (0.18 mm) Detector: MS SCAN

73 Toluene, CAS: 108-88-3

Signal: 3

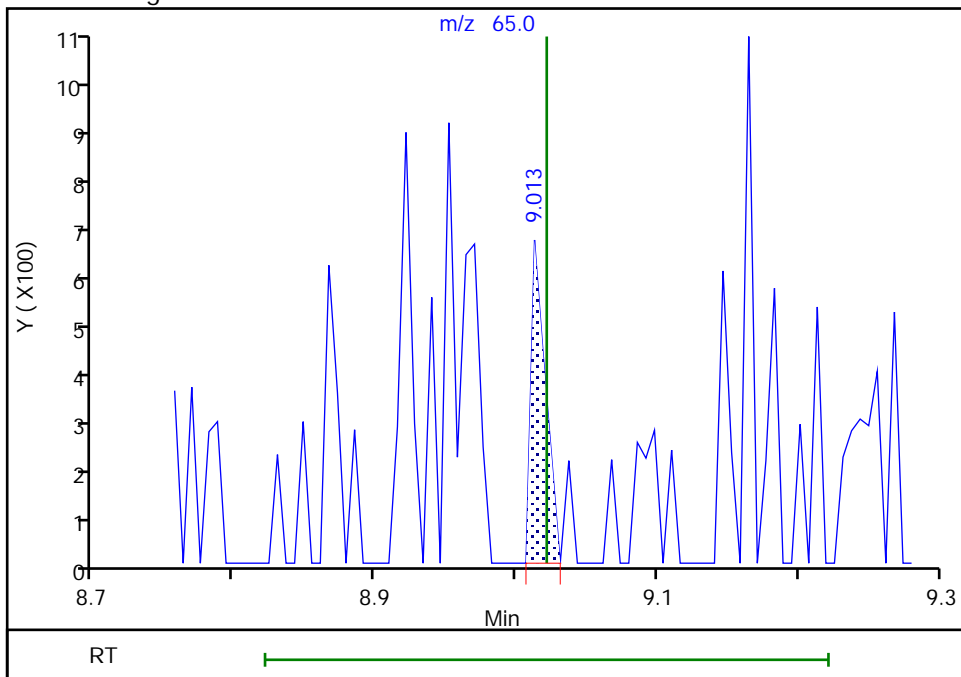
RT: 9.01  
Area: 459  
Amount: 0.133470  
Amount Units: ng

Processing Integration Results



RT: 9.01  
Area: 459  
Amount: 0.202648  
Amount Units: ng

Manual Integration Results



Eurofins TestAmerica, Pittsburgh

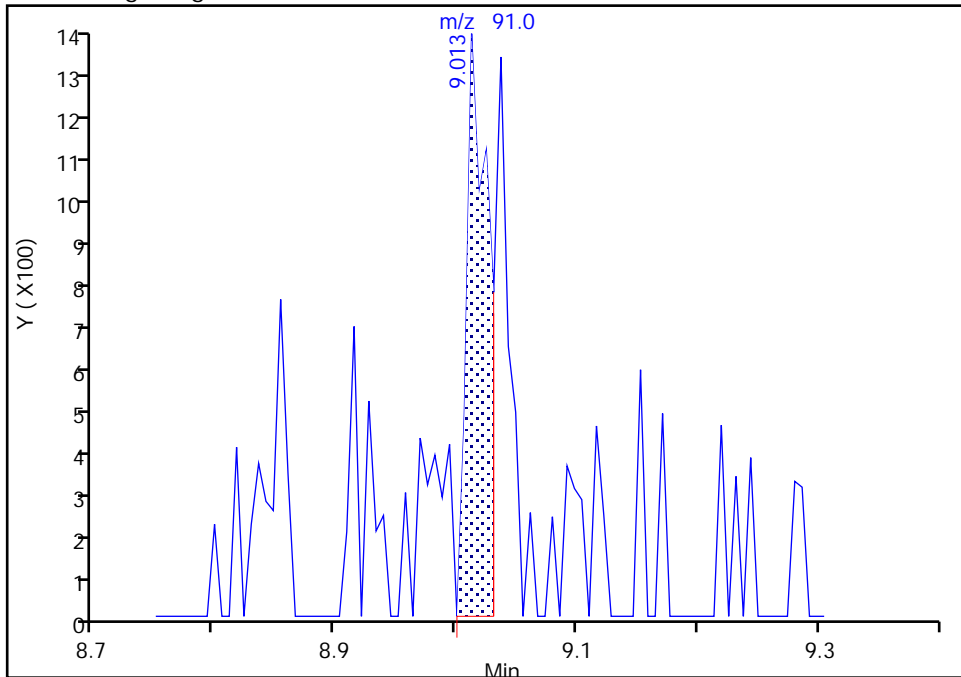
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Injection Date: 25-Jan-2020 12:53:30 Instrument ID: CHHP6  
Lims ID: MB  
Client ID:  
Operator ID: 433269 ALS Bottle#: 6 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
Column: DB-624 (0.18 mm) Detector MS SCAN

73 Toluene, CAS: 108-88-3

Signal: 1

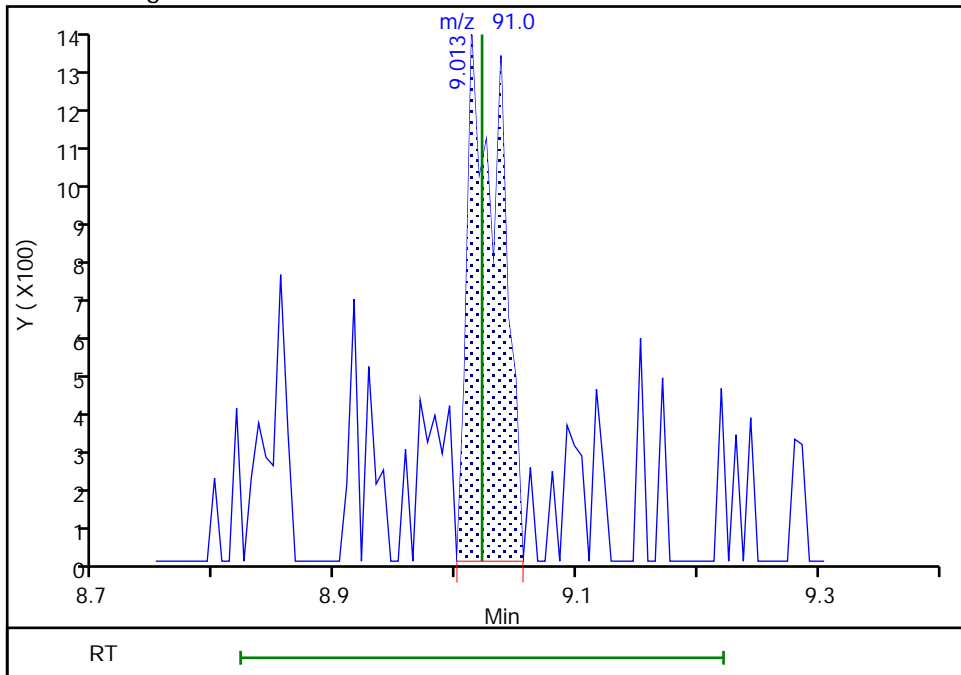
RT: 9.01  
Area: 1748  
Amount: 0.133470  
Amount Units: ng

Processing Integration Results



RT: 9.01  
Area: 2654  
Amount: 0.202648  
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 25-Jan-2020 16:22:19

Audit Action: Manually Integrated

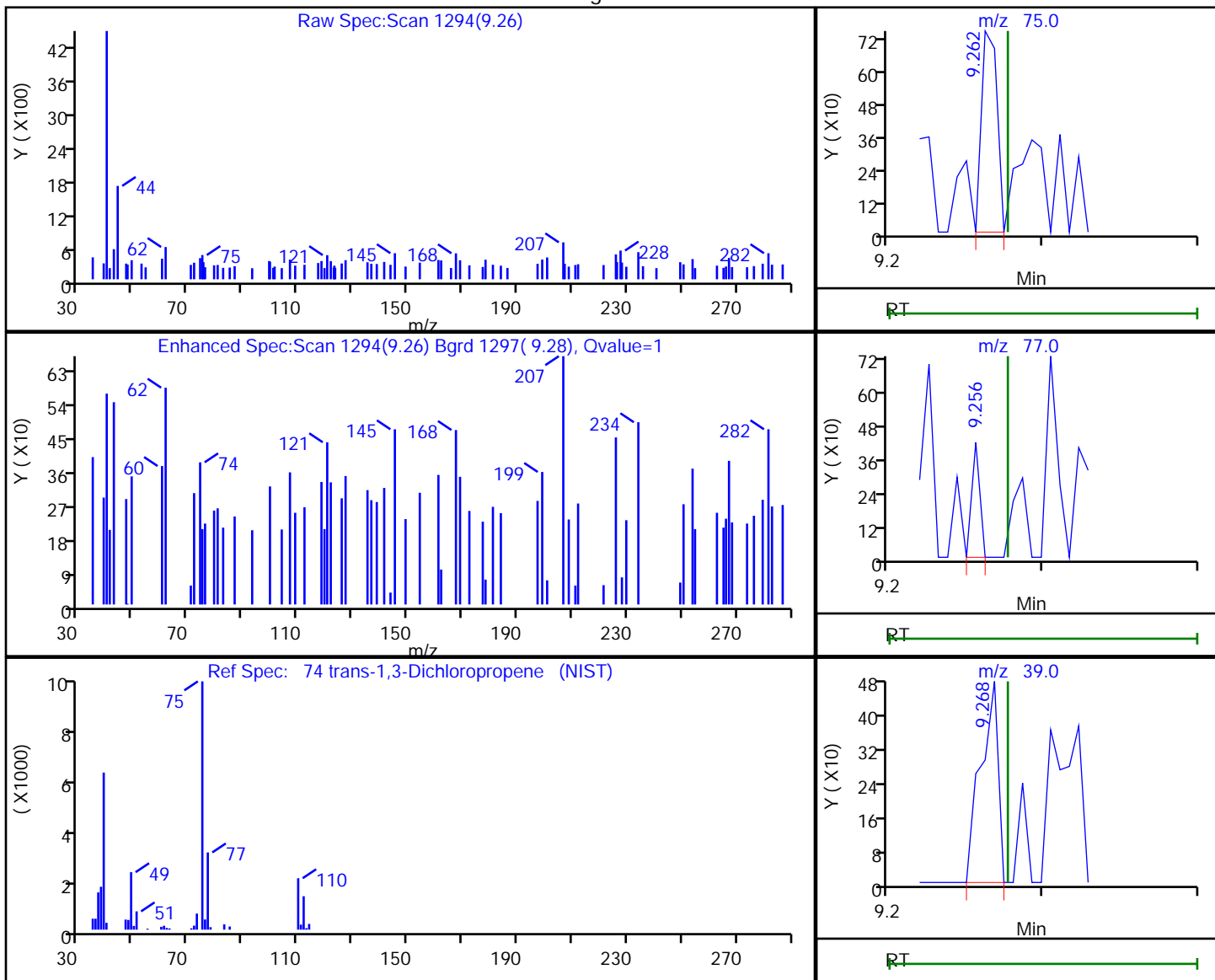
Audit Reason: Poor chromatography

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012506.D  
Injection Date: 25-Jan-2020 12:53:30 Instrument ID: CHHP6  
Lims ID: MB  
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

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

Processing Results



RT	Mass	Response	Amount
9.26	75.00	523	0.182658
9.26	77.00	152	
9.27	39.00	371	

Reviewer: bowieh, 25-Jan-2020 16:22:21

Audit Action: Marked Compound Undetected

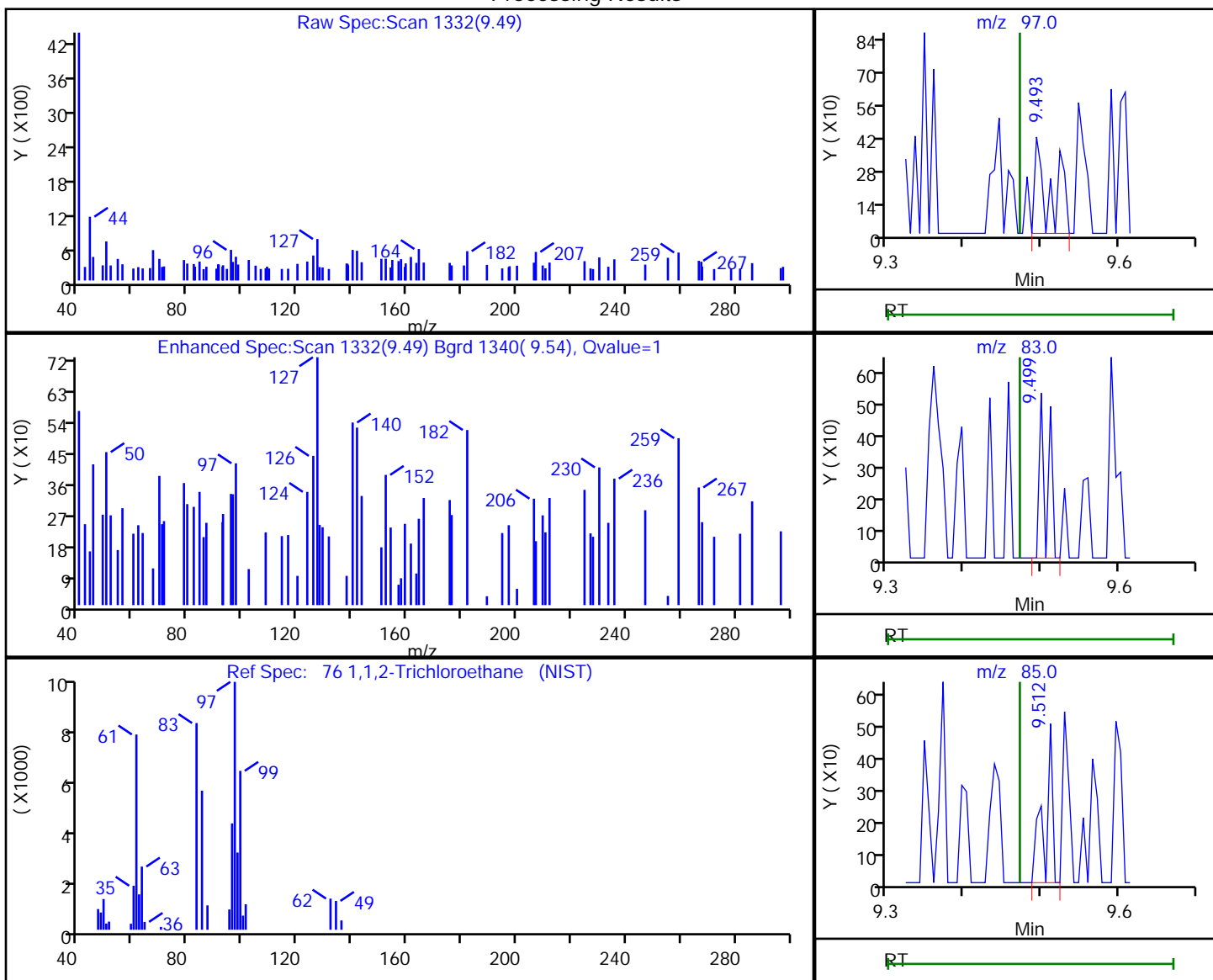
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012506.D  
 Injection Date: 25-Jan-2020 12:53:30 Instrument ID: CHHP6  
 Lims ID: MB  
 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

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

Processing Results



RT	Mass	Response	Amount
9.49	97.00	566	0.237548
9.50	83.00	371	
9.51	85.00	344	

Reviewer: bowieh, 25-Jan-2020 16:22:23

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

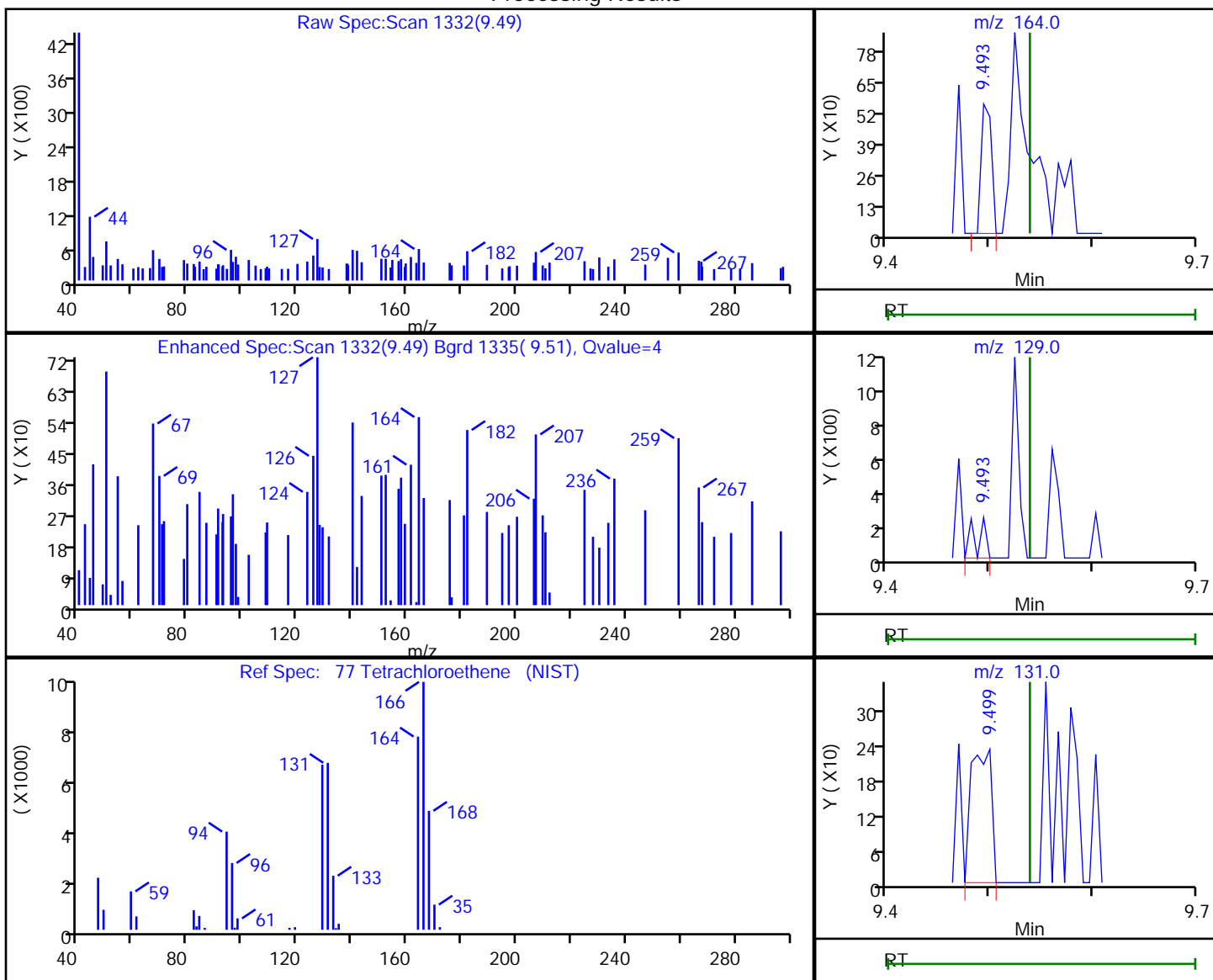


Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012506.D  
 Injection Date: 25-Jan-2020 12:53:30 Instrument ID: CHHP6  
 Lims ID: MB  
 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

77 Tetrachloroethene, CAS: 127-18-4

Processing Results



RT	Mass	Response	Amount
9.49	164.00	384	0.118681
9.49	129.00	165	
9.50	131.00	312	

Reviewer: bowieh, 25-Jan-2020 16:22:24

Audit Action: Marked Compound Undetected

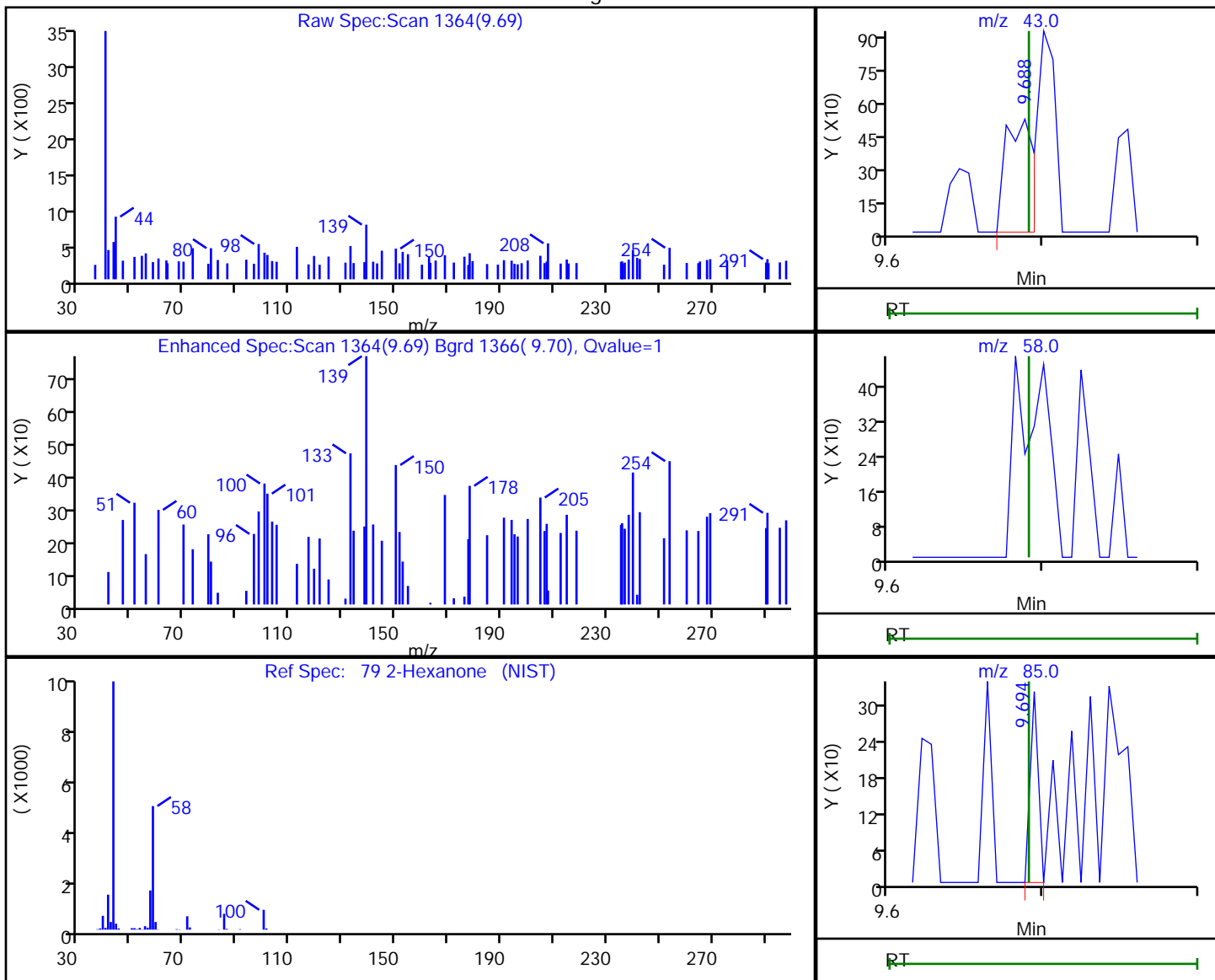
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012506.D  
 Injection Date: 25-Jan-2020 12:53:30 Instrument ID: CHHP6  
 Lims ID: MB  
 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

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

Processing Results



RT	Mass	Response	Amount
9.69	43.00	656	0.309068
9.69	58.00	0	
9.69	85.00	115	

Reviewer: bowieh, 25-Jan-2020 16:22:28

Audit Action: Marked Compound Undetected

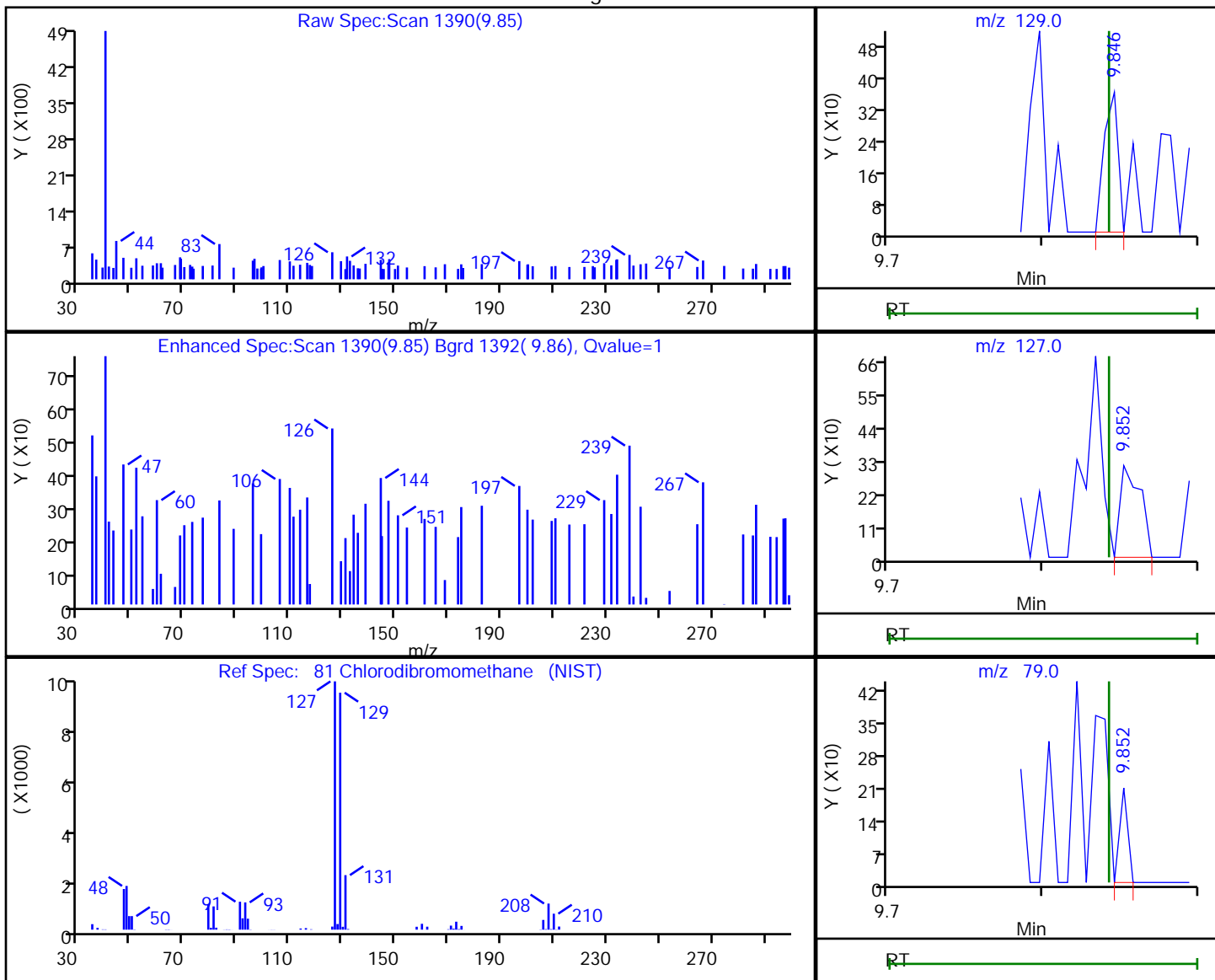
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012506.D  
Injection Date: 25-Jan-2020 12:53:30 Instrument ID: CHHP6  
Lims ID: MB  
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

81 Chlorodibromomethane, CAS: 124-48-1

Processing Results



RT	Mass	Response	Amount
9.85	129.00	224	0.111312
9.85	127.00	282	
9.85	79.00	75	

Reviewer: bowieh, 25-Jan-2020 16:22:31

Audit Action: Marked Compound Undetected

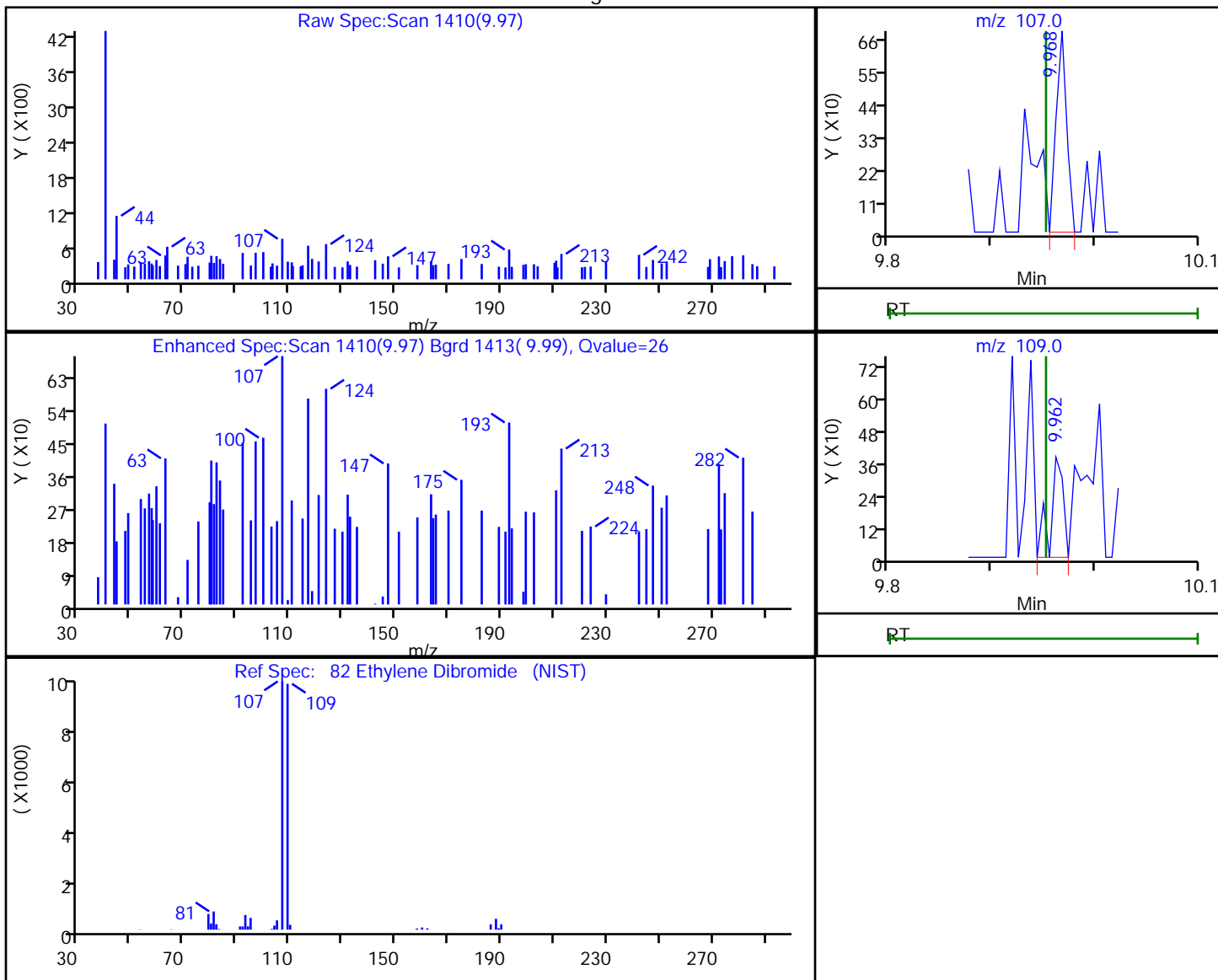
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012506.D  
Injection Date: 25-Jan-2020 12:53:30 Instrument ID: CHHP6  
Lims ID: MB  
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

82 Ethylene Dibromide, CAS: 106-93-4

Processing Results



RT	Mass	Response	Amount
9.97	107.00	487	0.207103
9.96	109.00	319	

Reviewer: bowieh, 25-Jan-2020 16:22:32

Audit Action: Marked Compound Undetected

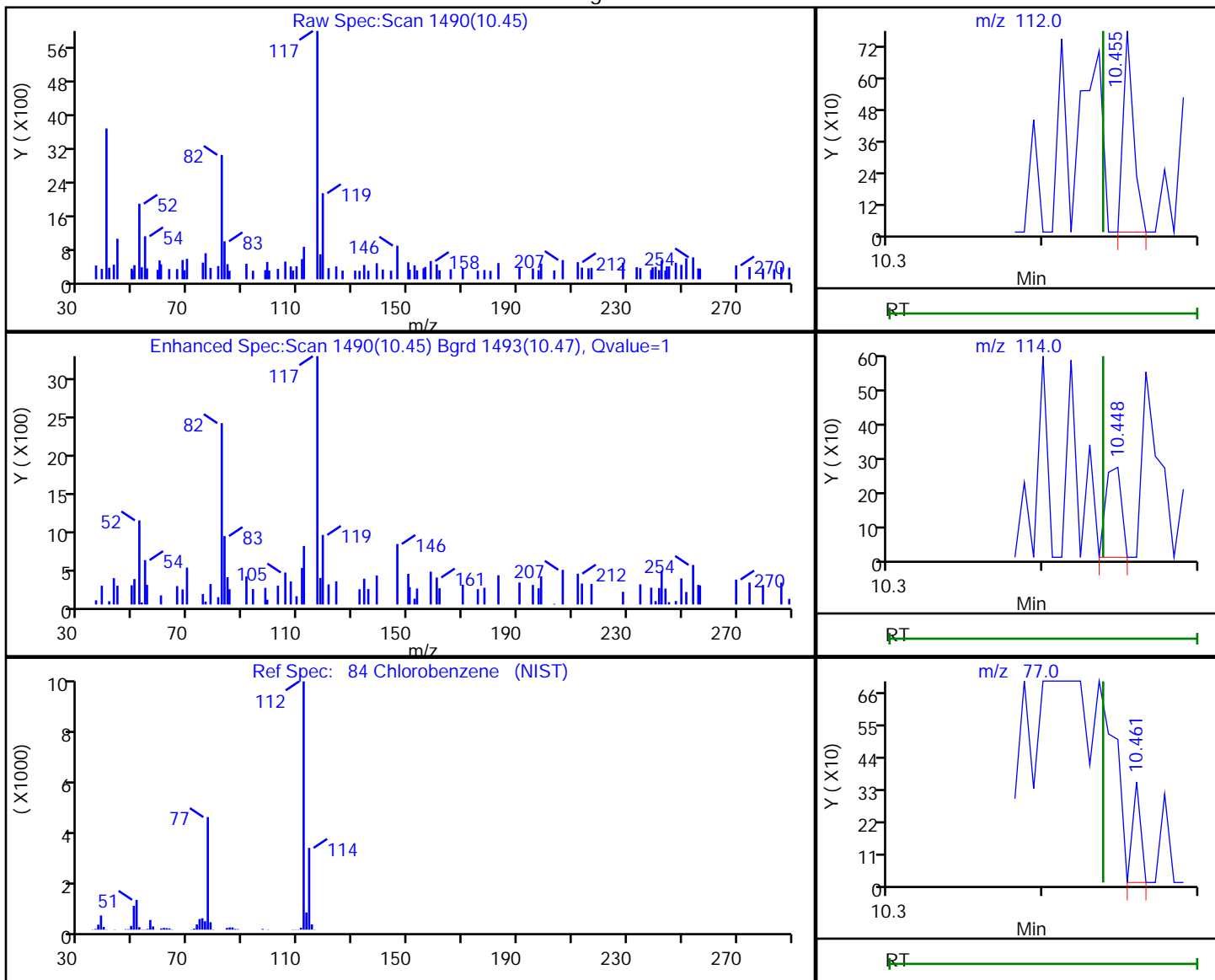
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012506.D  
 Injection Date: 25-Jan-2020 12:53:30 Instrument ID: CHHP6  
 Lims ID: MB  
 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

84 Chlorobenzene, CAS: 108-90-7

Processing Results



RT	Mass	Response	Amount
10.45	112.00	361	0.041351
10.45	114.00	190	
10.46	77.00	127	

Reviewer: bowieh, 25-Jan-2020 16:22:33

Audit Action: Marked Compound Undetected

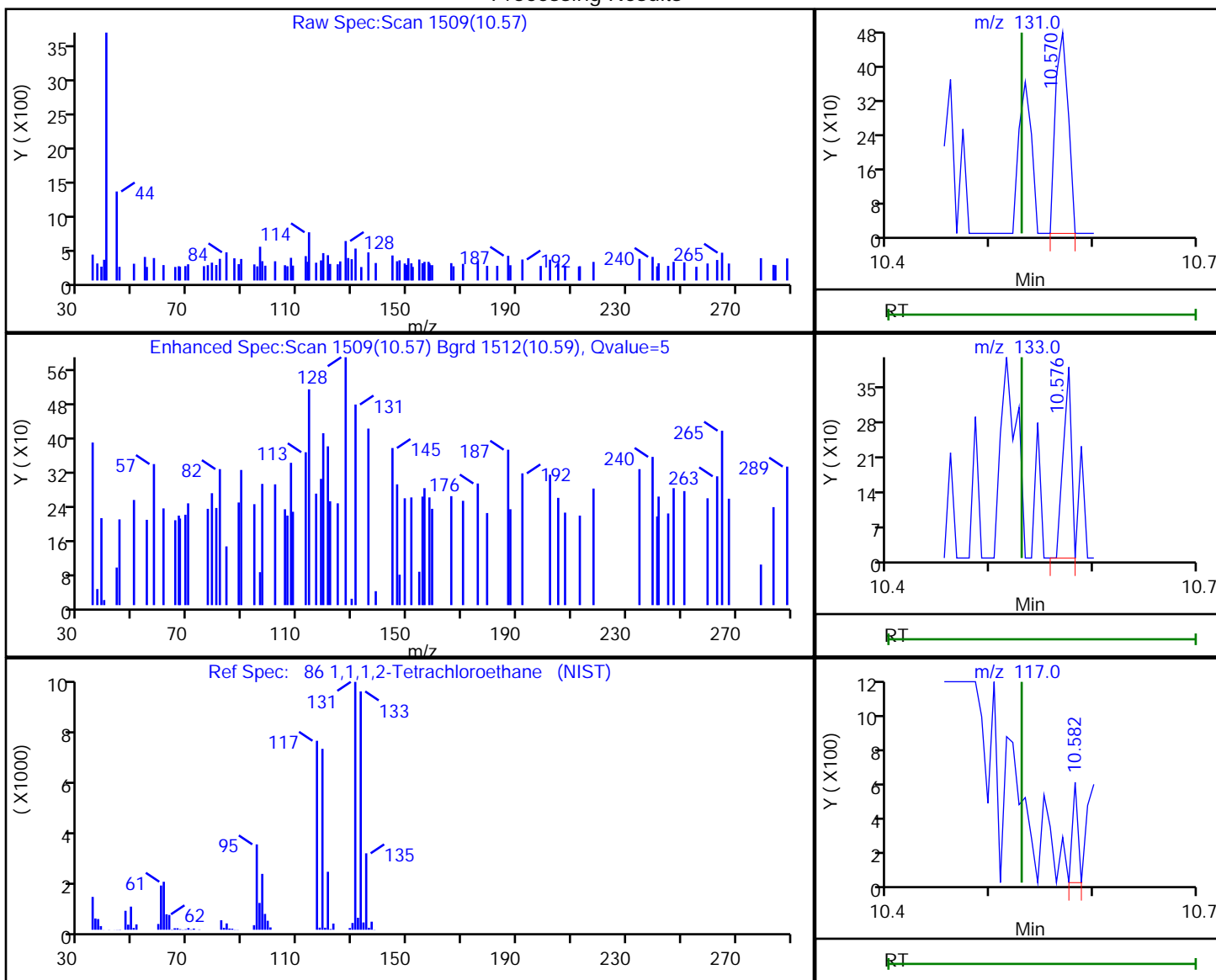
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012506.D  
 Injection Date: 25-Jan-2020 12:53:30 Instrument ID: CHHP6  
 Lims ID: MB  
 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

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

Processing Results



RT	Mass	Response	Amount
10.57	131.00	408	0.159104
10.58	133.00	215	
10.58	117.00	213	

Reviewer: bowieh, 25-Jan-2020 16:22:34

Audit Action: Marked Compound Undetected

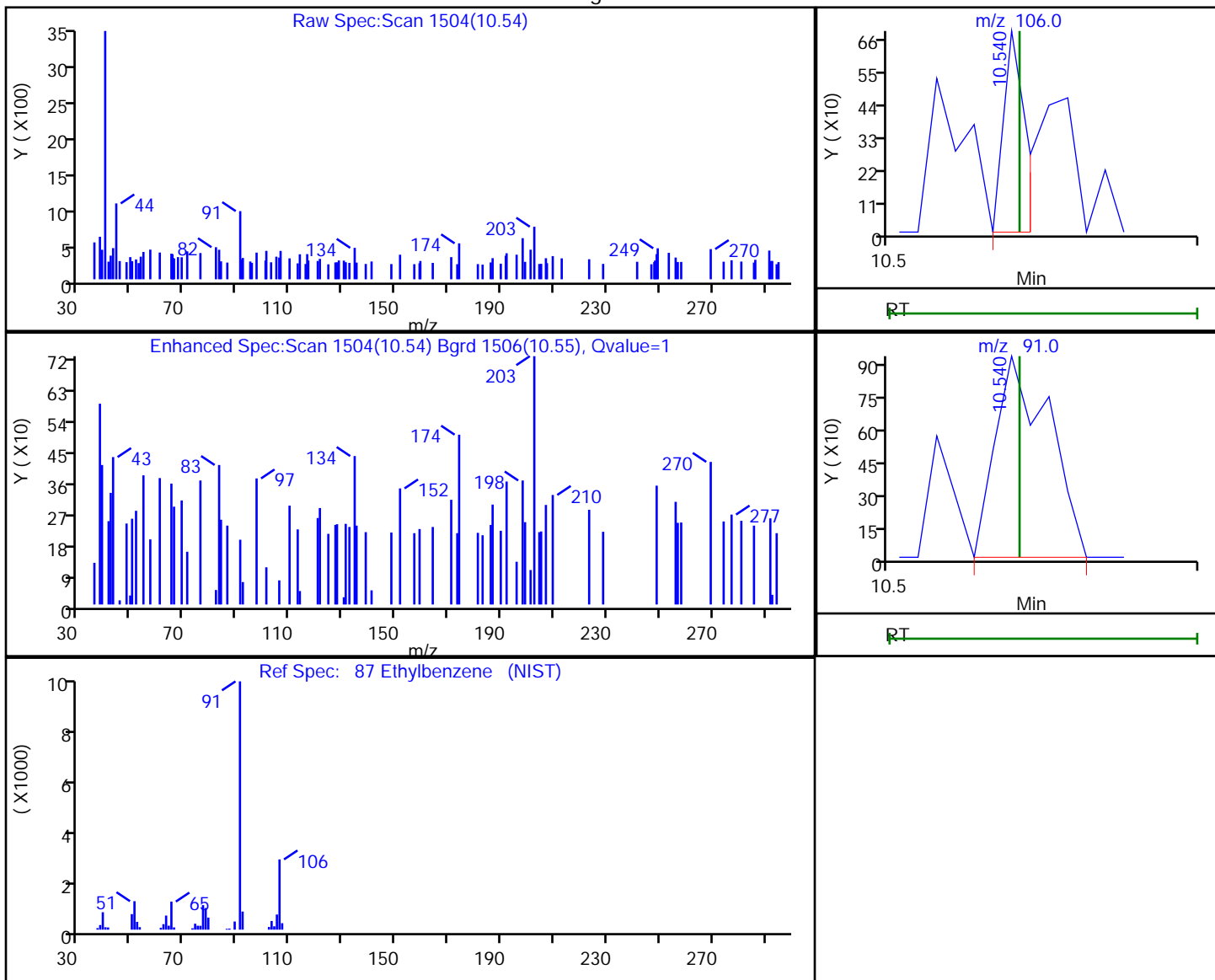
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012506.D  
 Injection Date: 25-Jan-2020 12:53:30 Instrument ID: CHHP6  
 Lims ID: MB  
 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

87 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
10.54	106.00	347	0.069456
10.54	91.00	1131	

Reviewer: bowieh, 25-Jan-2020 16:22:36

Audit Action: Marked Compound Undetected

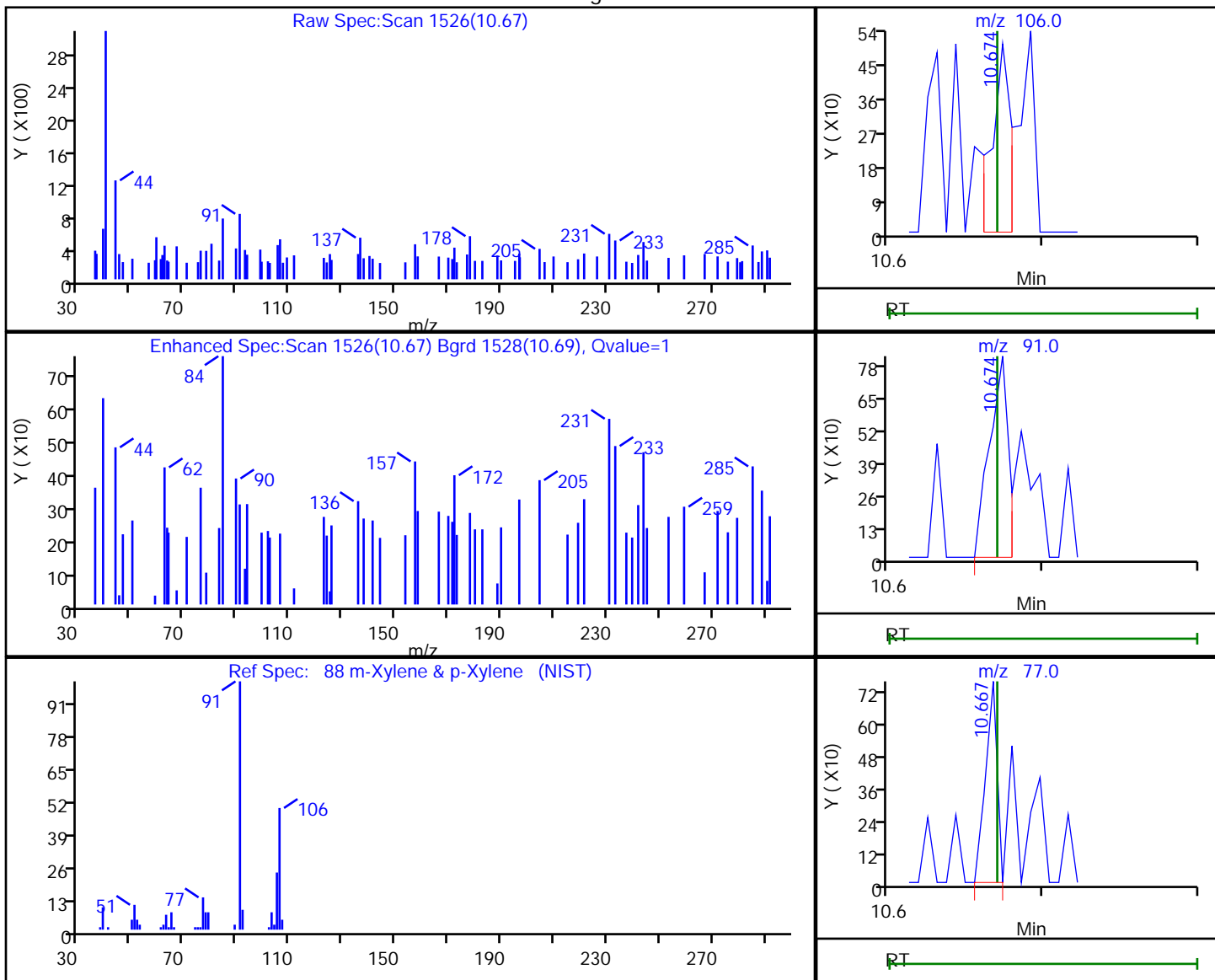
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012506.D  
 Injection Date: 25-Jan-2020 12:53:30 Instrument ID: CHHP6  
 Lims ID: MB  
 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

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

Processing Results



RT	Mass	Response	Amount
10.67	106.00	438	0.073136
10.67	91.00	711	
10.67	77.00	396	

Reviewer: bowieh, 25-Jan-2020 16:22:37

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

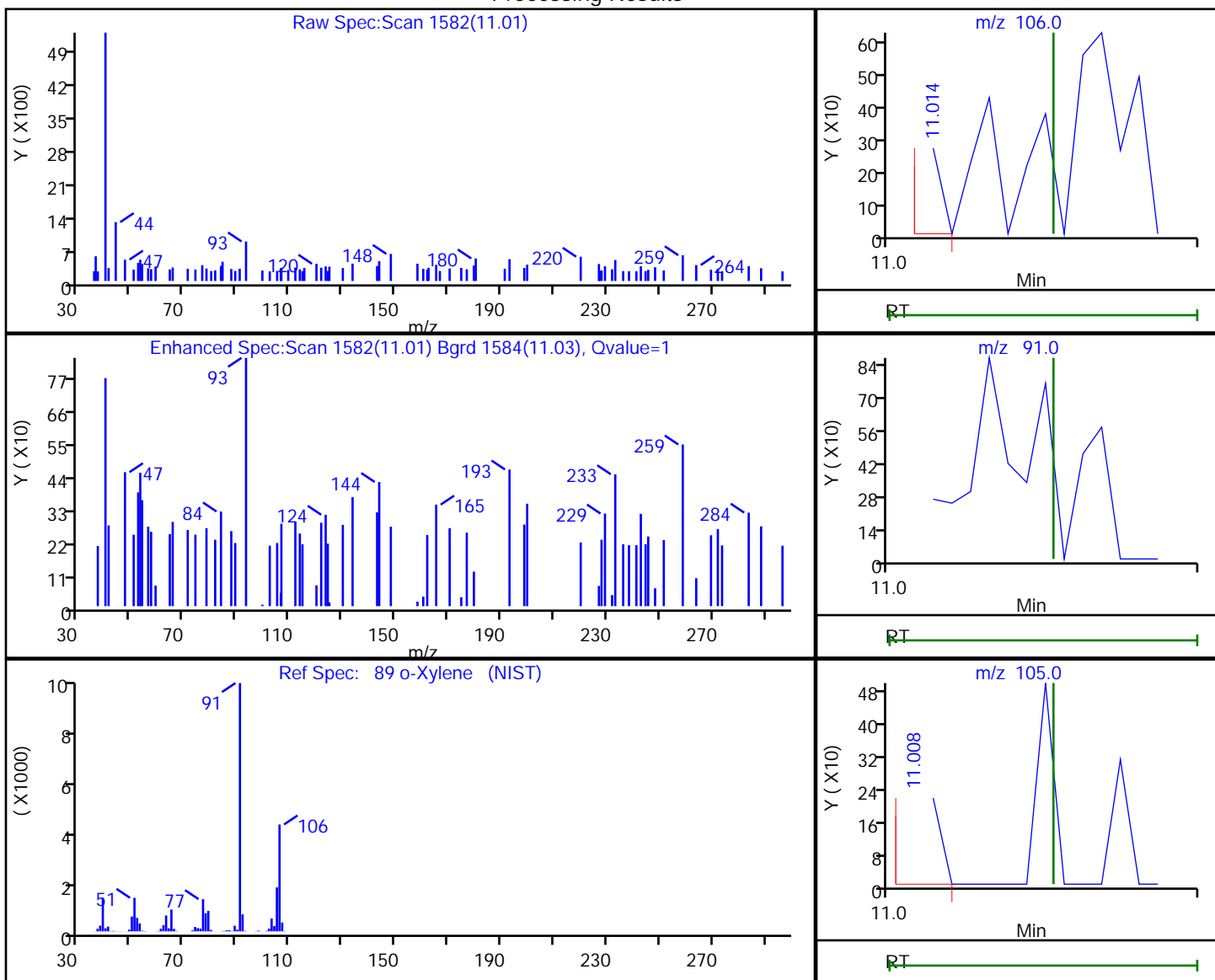


Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012506.D  
 Injection Date: 25-Jan-2020 12:53:30 Instrument ID: CHHP6  
 Lims ID: MB  
 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

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

Processing Results



RT	Mass	Response	Amount
11.01	106.00	97	0.017023
11.01	91.00	262	
11.01	105.00	225	

Reviewer: bowieh, 25-Jan-2020 16:22:38

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

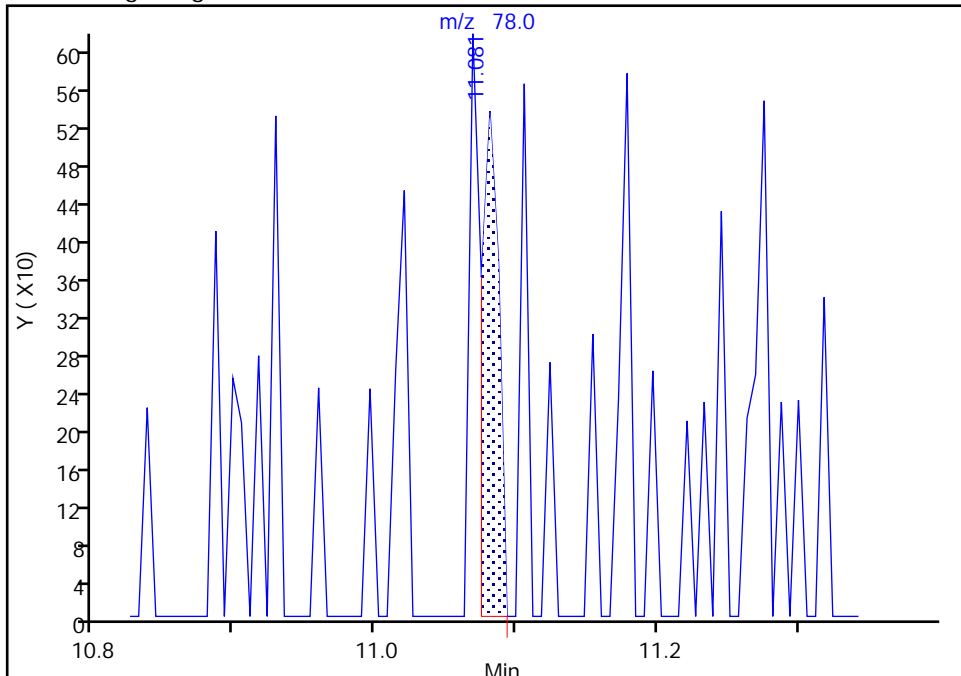
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Injection Date: 25-Jan-2020 12:53:30 Instrument ID: CHHP6  
Lims ID: MB  
Client ID:  
Operator ID: 433269 ALS Bottle#: 6 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
Column: DB-624 (0.18 mm) Detector: MS SCAN

90 Styrene, CAS: 100-42-5

Signal: 2

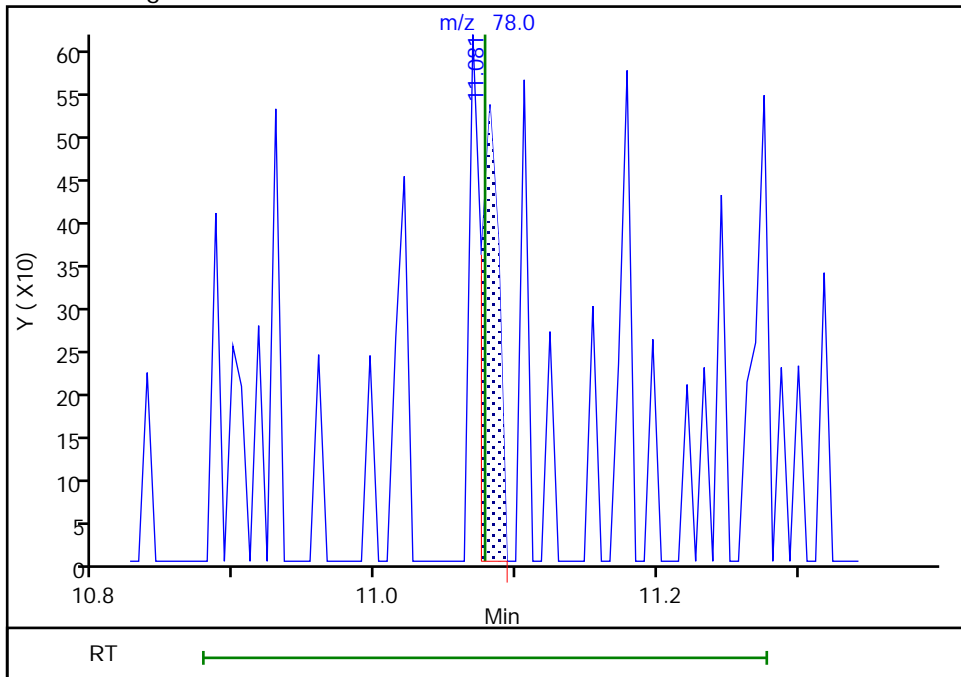
RT: 11.08  
Area: 464  
Amount: 0.124847  
Amount Units: ng

Processing Integration Results



RT: 11.08  
Area: 464  
Amount: 0.124847  
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 25-Jan-2020 16:22:39  
Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID  
Page 846 of 880

Eurofins TestAmerica, Pittsburgh

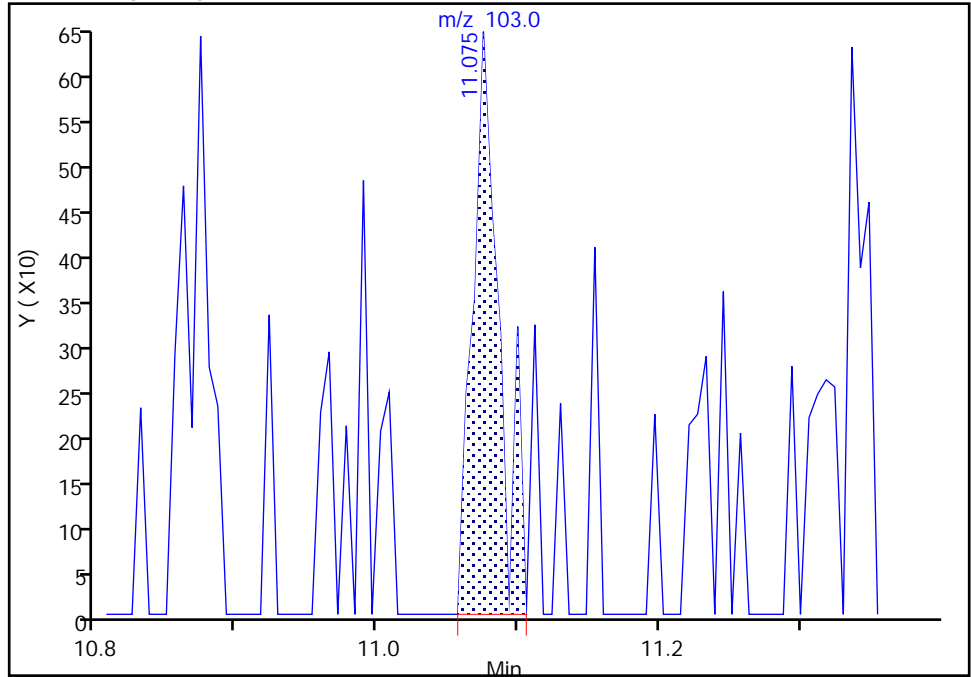
Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012506.D  
Injection Date: 25-Jan-2020 12:53:30 Instrument ID: CHHP6  
Lims ID: MB  
Client ID:  
Operator ID: 433269 ALS Bottle#: 6 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: MSVOA\_LL\_CHHP6 Limit Group: VOA 8260C\_D ICAL  
Column: DB-624 (0.18 mm) Detector: MS SCAN

90 Styrene, CAS: 100-42-5

Signal: 3

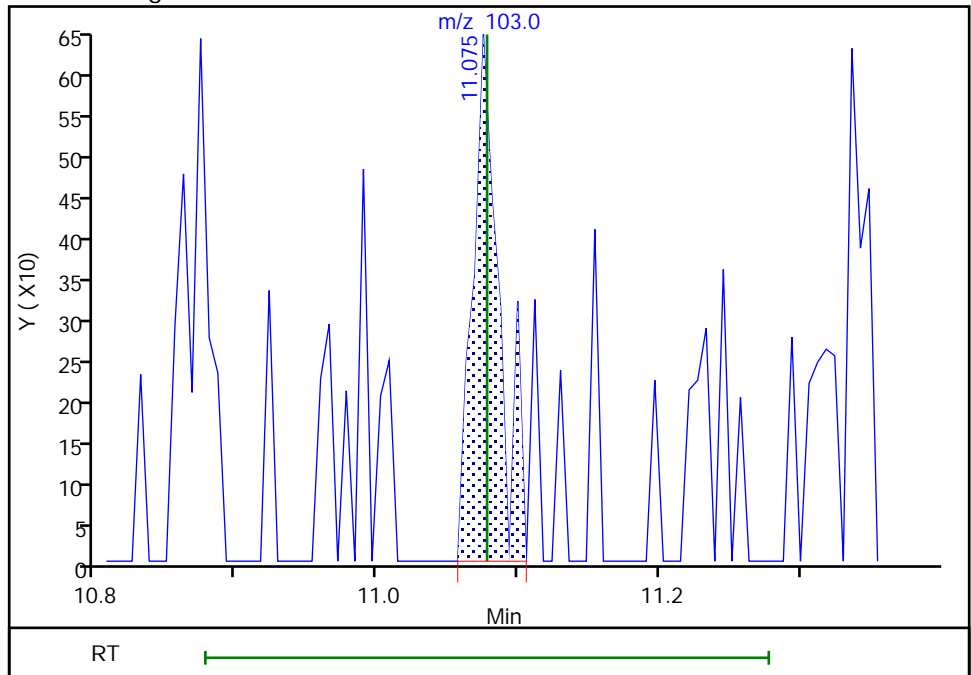
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Area: 847  
Amount: 0.124847  
Amount Units: ng

Processing Integration Results



RT: 11.08  
Area: 847  
Amount: 0.124847  
Amount Units: ng

Manual Integration Results



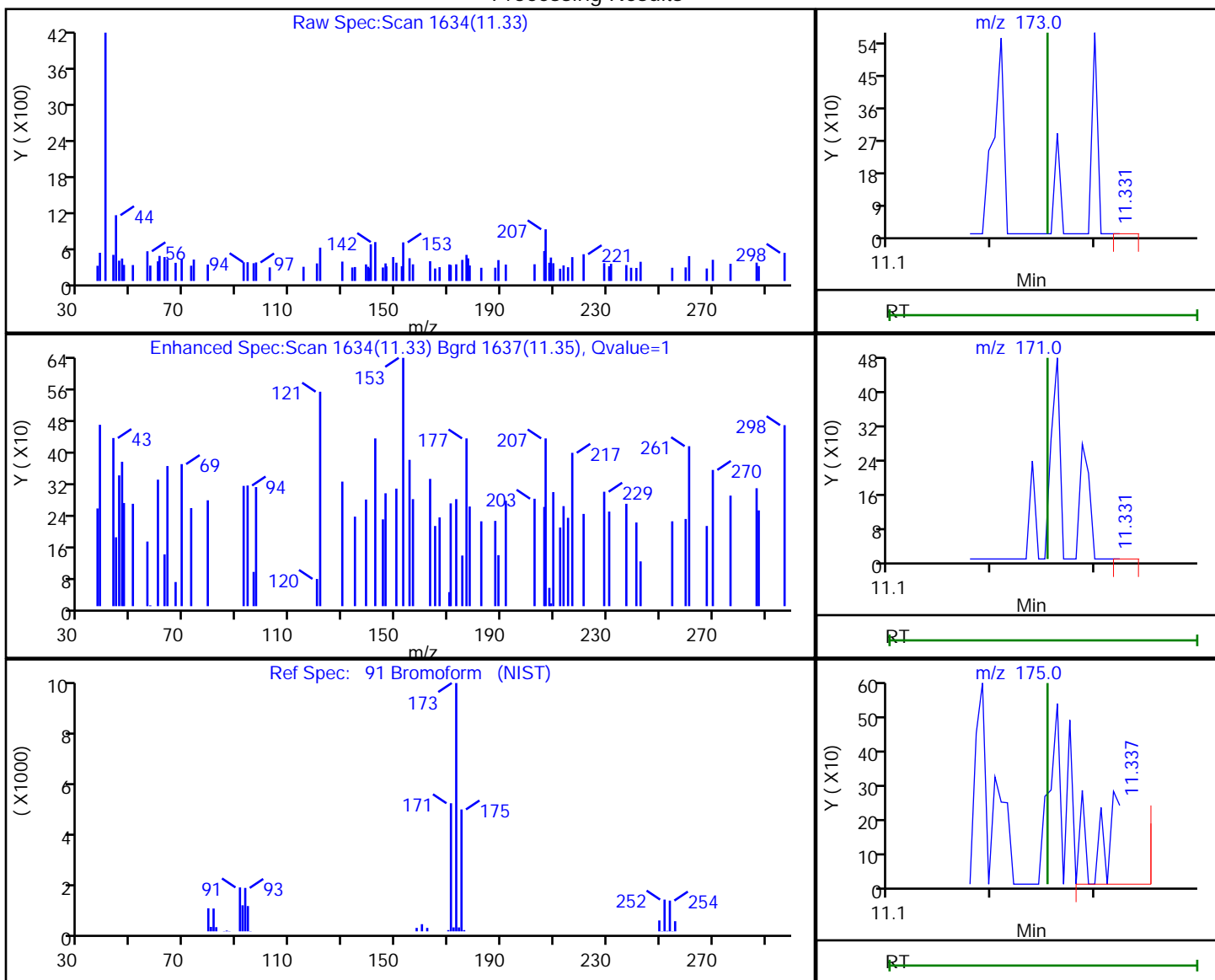
Reviewer: bowieh, 25-Jan-2020 16:22:39  
Audit Action: Marked Compound Undetected

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012506.D  
 Injection Date: 25-Jan-2020 12:53:30 Instrument ID: CHHP6  
 Lims ID: MB  
 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

91 Bromoform, CAS: 75-25-2

Processing Results



RT	Mass	Response	Amount
11.33	173.00	100	0.089640
11.33	171.00	96	
11.34	175.00	863	

Reviewer: bowieh, 25-Jan-2020 16:22:41

Audit Action: Marked Compound Undetected

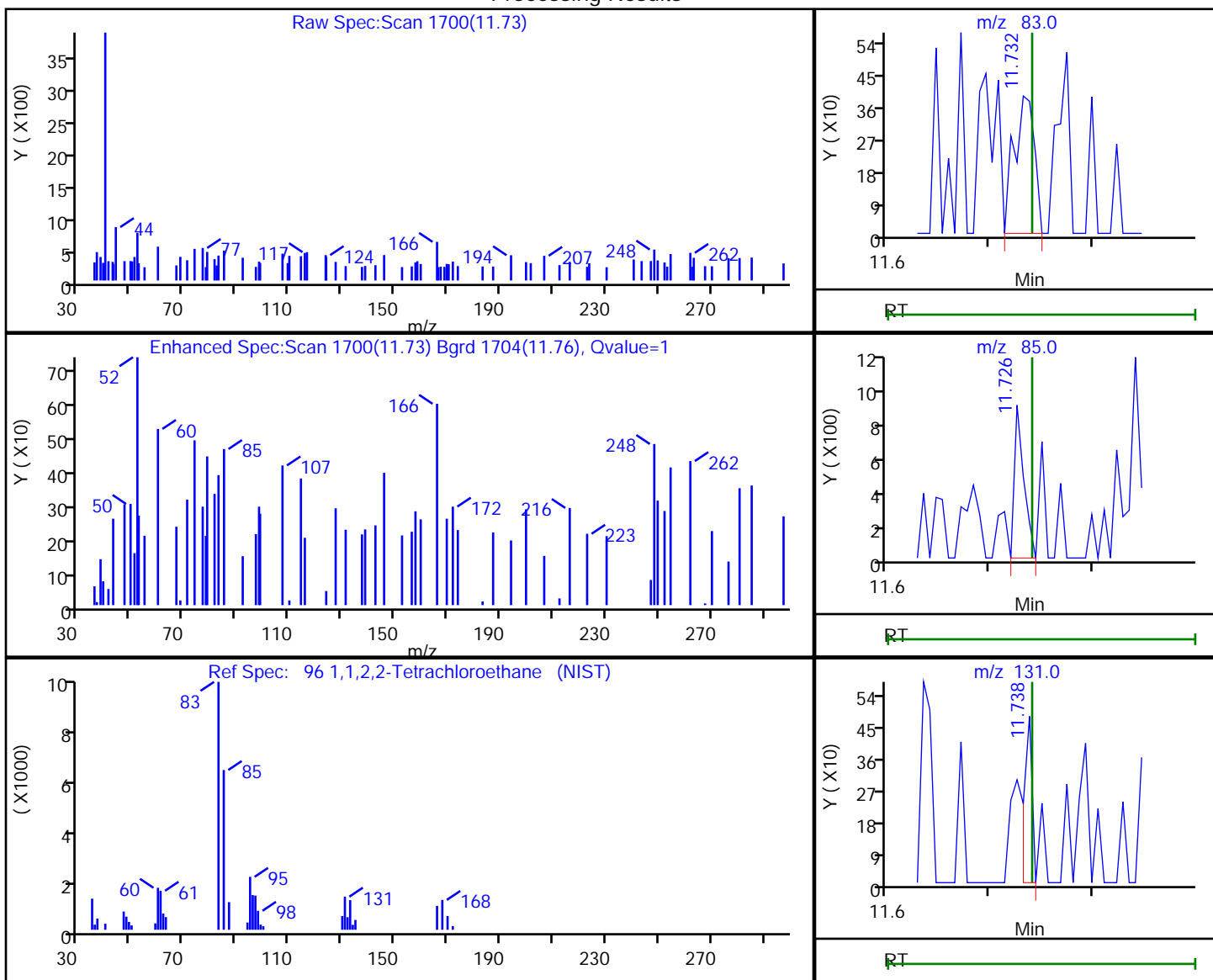
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012506.D  
 Injection Date: 25-Jan-2020 12:53:30 Instrument ID: CHHP6  
 Lims ID: MB  
 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

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

Processing Results



RT	Mass	Response	Amount
11.73	83.00	532	0.209475
11.73	85.00	564	
11.74	131.00	255	

Reviewer: bowieh, 25-Jan-2020 16:22:47

Audit Action: Marked Compound Undetected

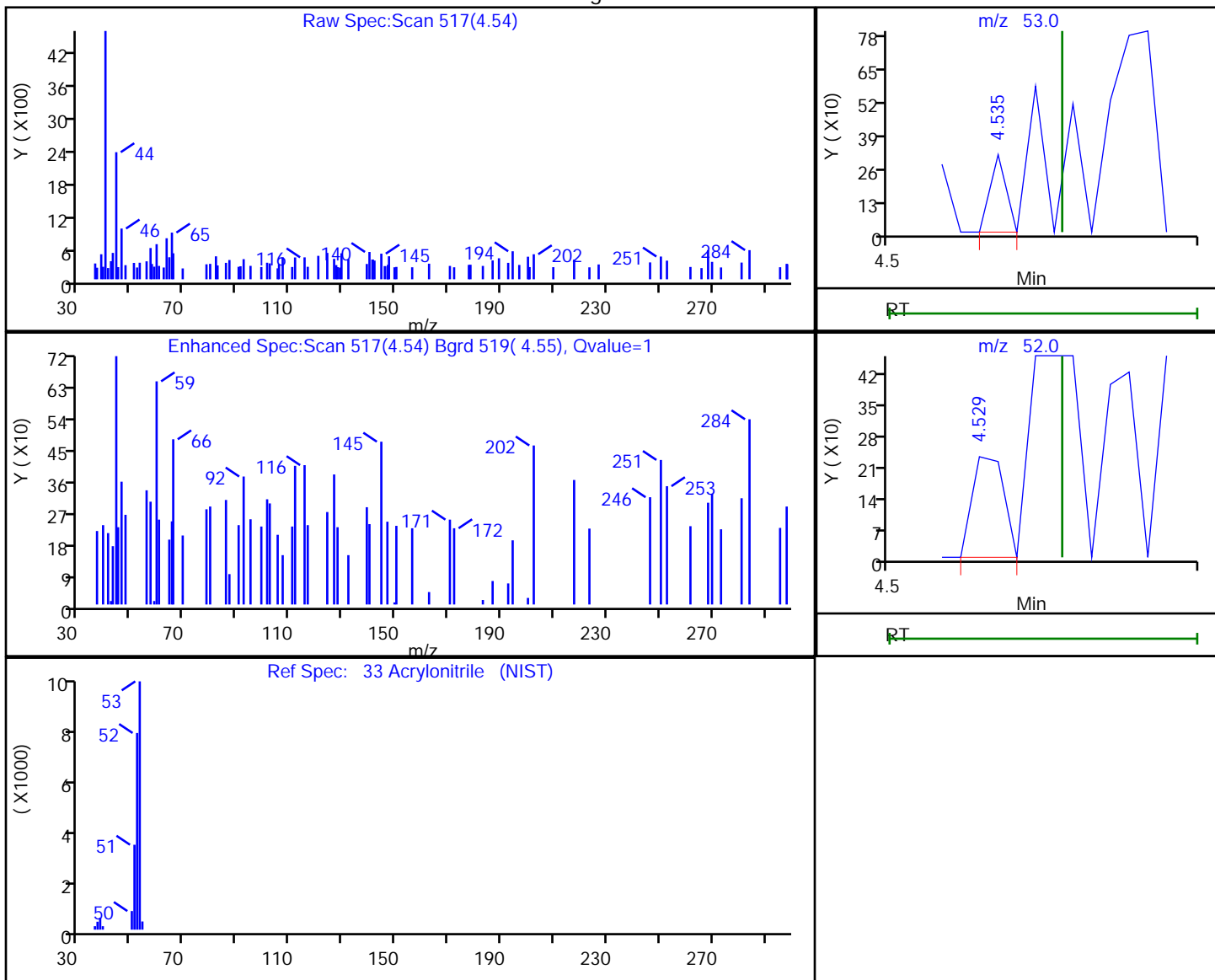
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012506.D  
 Injection Date: 25-Jan-2020 12:53:30 Instrument ID: CHHP6  
 Lims ID: MB  
 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

33 Acrylonitrile, CAS: 107-13-1

Processing Results



RT	Mass	Response	Amount
4.54	53.00	111	0.105016
4.53	52.00	162	

Reviewer: bowieh, 25-Jan-2020 16:21:16

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.: 180-101459-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 180-304996/4  
 Matrix: Water Lab File ID: 6012504.D  
 Analysis Method: EPA 8260C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5 (mL) Date Analyzed: 01/25/2020 11:58  
 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.: 304996 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	14.0		1.0	0.90
75-01-4	Vinyl chloride	13.6		1.0	0.88
74-83-9	Bromomethane	12.4		1.0	0.89
75-00-3	Chloroethane	13.1		1.0	0.90
75-35-4	1,1-Dichloroethene	11.8		1.0	0.55
67-64-1	Acetone	22.5		5.0	3.4
75-15-0	Carbon disulfide	11.5		1.0	0.88
75-09-2	Methylene Chloride	10.6		1.0	0.89
156-60-5	trans-1,2-Dichloroethene	10.9		1.0	0.67
1634-04-4	Methyl tert-butyl ether	11.3		1.0	0.59
75-34-3	1,1-Dichloroethane	11.3		1.0	0.63
156-59-2	cis-1,2-Dichloroethene	10.6		1.0	0.71
74-97-5	Bromochloromethane	10.6		1.0	0.63
78-93-3	2-Butanone (MEK)	23.7		5.0	2.6
67-66-3	Chloroform	10.7		1.0	0.60
71-55-6	1,1,1-Trichloroethane	9.96		1.0	0.60
56-23-5	Carbon tetrachloride	11.7		1.0	0.88
71-43-2	Benzene	10.9		1.0	0.60
107-06-2	1,2-Dichloroethane	11.5		1.0	0.57
79-01-6	Trichloroethene	10.6		1.0	0.69
78-87-5	1,2-Dichloropropane	11.1		1.0	0.66
75-27-4	Bromodichloromethane	10.7		1.0	0.64
10061-01-5	cis-1,3-Dichloropropene	10.5		1.0	0.59
108-10-1	4-Methyl-2-pentanone (MIBK)	21.6		5.0	3.1
108-88-3	Toluene	10.5		1.0	0.46
10061-02-6	trans-1,3-Dichloropropene	10.5		1.0	0.58
79-00-5	1,1,2-Trichloroethane	10.7		1.0	0.45
127-18-4	Tetrachloroethene	10.3		1.0	0.47
591-78-6	2-Hexanone	22.2		5.0	3.3
124-48-1	Dibromochloromethane	10.3		1.0	0.84
106-93-4	1,2-Dibromoethane (EDB)	10.9		1.0	0.50
108-90-7	Chlorobenzene	10.4		1.0	0.50
630-20-6	1,1,1,2-Tetrachloroethane	10.7		1.0	0.57
100-41-4	Ethylbenzene	10.7		1.0	0.51
1330-20-7	Xylenes, Total	21.4		2.0	0.89
100-42-5	Styrene	10.6		1.0	0.47

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-101459-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 180-304996/4  
 Matrix: Water Lab File ID: 6012504.D  
 Analysis Method: EPA 8260C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5 (mL) Date Analyzed: 01/25/2020 11:58  
 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.: 304996 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	11.4		1.0	0.98
79-34-5	1,1,2,2-Tetrachloroethane	12.0		1.0	0.60
107-13-1	Acrylonitrile	122		20	7.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		70-150
2037-26-5	Toluene-d8 (Surr)	101		78-128
460-00-4	4-Bromofluorobenzene (Surr)	99		64-123
1868-53-7	Dibromofluoromethane (Surr)	105		75-147



Eurofins TestAmerica, Pittsburgh  
Target Compound Quantitation Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012504.D  
 Lims ID: LCS  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 25-Jan-2020 11:58:30 ALS Bottle#: 4 Worklist Smp#: 4  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 180-0030512-004  
 Misc. Info.: lcs  
 Operator ID: 433269 Instrument ID: CHHP6  
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\MSVOA\_LL\_CHHP6.m  
 Limit Group: VOA 8260C\_D ICAL  
 Last Update: 25-Jan-2020 16:18:50 Calib Date: 31-Dec-2019 16:03:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123111.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0321

First Level Reviewer: bowieh

Date: 25-Jan-2020 16:19:09

Compound	Sig	RT (min.)	Exp RT (min.)	Diff RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.313	4.319	-0.006	91	144060	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.307	7.306	0.001	98	520893	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.409	10.408	0.001	84	133202	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.757	12.757	0.000	93	229653	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.577	6.582	-0.005	94	122759	50.0	52.3	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.948	6.953	-0.005	69	134746	50.0	55.2	
\$ 7 Toluene-d8 (Surr)	98	8.955	8.954	0.001	93	500012	50.0	50.7	
\$ 8 4-Bromofluorobenzene (Surr	95	11.601	11.595	0.006	0	173672	50.0	49.3	
11 Dichlorodifluoromethane	85	1.619	1.624	-0.006	99	202913	50.0	56.6	
12 Chloromethane	50	1.844	1.837	0.007	99	278249	50.0	70.1	
13 Vinyl chloride	62	1.953	1.952	0.001	60	231978	50.0	67.9	
14 Butadiene	39	1.959	1.965	-0.006	89	230115	50.0	65.9	
15 Bromomethane	94	2.288	2.287	0.001	92	135472	50.0	62.2	
16 Chloroethane	64	2.422	2.421	0.001	98	162614	50.0	65.4	
17 Dichlorofluoromethane	67	2.689	2.689	0.001	98	334273	50.0	65.6	
18 Trichlorofluoromethane	101	2.707	2.719	-0.012	95	303449	50.0	64.0	
20 Ethyl ether	59	3.079	3.078	0.001	95	171401	50.0	69.1	
21 Acrolein	56	3.255	3.260	-0.005	99	83258	150.0	168.2	
22 1,1-Dichloroethene	96	3.377	3.370	0.007	97	147561	50.0	59.2	
23 1,1,2-Trichloro-1,2,2-trif	101	3.444	3.437	0.007	90	167425	50.0	60.8	
24 Acetone	43	3.474	3.473	0.001	100	143089	100.0	112.5	
25 Iodomethane	142	3.571	3.565	0.006	98	247511	50.0	51.9	
26 Carbon disulfide	76	3.663	3.662	0.001	100	323465	50.0	57.6	
29 3-Chloro-1-propene	76	3.936	3.942	-0.006	91	75382	50.0	53.2	
30 Methyl acetate	43	3.973	3.972	0.001	99	282852	100.0	142.4	
31 Methylene Chloride	84	4.167	4.155	0.012	99	159021	50.0	53.0	
32 2-Methyl-2-propanol	59	4.447	4.447	0.000	91	79610	500.0	504.4	
33 Acrylonitrile	53	4.551	4.556	-0.005	100	623724	500.0	609.5	
34 trans-1,2-Dichloroethene	96	4.587	4.574	0.013	98	154467	50.0	54.5	
35 Methyl tert-butyl ether	73	4.605	4.611	-0.006	97	311676	50.0	56.7	
36 Hexane	57	5.001	5.000	0.001	95	231582	50.0	53.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
37 1,1-Dichloroethane	63	5.220	5.219	0.001	96	258611	50.0	56.5	
38 Vinyl acetate	43	5.275	5.280	-0.005	98	150601	50.0	28.0	
43 cis-1,2-Dichloroethene	96	5.968	5.967	0.001	81	161768	50.0	53.0	
42 2,2-Dichloropropane	97	5.956	5.967	-0.011	64	28871	50.0	49.2	
44 2-Butanone (MEK)	43	5.986	5.980	0.006	99	189594	100.0	118.6	
48 Chlorobromomethane	128	6.248	6.247	0.001	97	83496	50.0	53.1	
49 Tetrahydrofuran	42	6.278	6.272	0.006	0	85081	100.0	109.3	
50 Chloroform	83	6.400	6.393	0.007	97	232489	50.0	53.5	
51 1,1,1-Trichloroethane	97	6.552	6.558	-0.006	99	175020	50.0	49.8	
52 Cyclohexane	56	6.619	6.625	-0.005	92	291722	50.0	54.2	
53 Carbon tetrachloride	117	6.729	6.722	0.007	84	172337	50.0	58.3	
54 1,1-Dichloropropene	75	6.741	6.740	0.001	92	186498	50.0	53.3	
55 Isobutyl alcohol	41	6.960	6.953	0.007	74	87634	1250.0	1203.4	
56 Benzene	78	6.960	6.959	0.001	97	614641	50.0	54.6	
57 1,2-Dichloroethane	62	7.039	7.038	0.001	96	178652	50.0	57.6	
59 n-Heptane	43	7.319	7.318	0.001	96	181642	50.0	53.7	
61 Trichloroethene	130	7.690	7.689	0.001	93	177062	50.0	53.1	
63 Methylcyclohexane	83	7.927	7.926	0.001	93	241292	50.0	53.0	
64 1,2-Dichloropropane	63	7.964	7.963	0.001	96	145866	50.0	55.4	
67 Dibromomethane	93	8.055	8.048	0.007	88	77619	50.0	54.4	
65 1,4-Dioxane	88	8.055	8.060	-0.005	36	24402	1000.0	850.9	
68 Dichlorobromomethane	83	8.249	8.249	0.000	98	132042	50.0	53.6	
70 2-Chloroethyl vinyl ether	63	8.548	8.553	-0.005	93	108893	100.0	72.6	
71 cis-1,3-Dichloropropene	75	8.694	8.699	-0.005	92	167542	50.0	52.6	
72 4-Methyl-2-pentanone (MIBK)	43	8.852	8.857	-0.005	97	255096	100.0	108.0	
73 Toluene	91	9.028	9.021	0.007	98	661719	50.0	52.7	
74 trans-1,3-Dichloropropene	75	9.272	9.277	-0.005	97	144065	50.0	52.5	
75 Ethyl methacrylate	69	9.338	9.338	0.000	94	135300	50.0	50.2	
76 1,1,2-Trichloroethane	97	9.466	9.472	-0.006	90	122574	50.0	53.7	
77 Tetrachloroethene	164	9.539	9.538	0.001	95	158961	50.0	51.3	
78 1,3-Dichloropropane	76	9.630	9.624	0.006	94	213820	50.0	56.4	
79 2-Hexanone	43	9.685	9.691	-0.006	99	225549	100.0	110.9	
81 Chlorodibromomethane	129	9.837	9.843	-0.006	90	99321	50.0	51.5	
82 Ethylene Dibromide	107	9.953	9.952	0.001	98	123247	50.0	54.7	
84 Chlorobenzene	112	10.440	10.439	0.001	97	435413	50.0	52.0	
86 1,1,1,2-Tetrachloroethane	131	10.531	10.530	0.001	92	131516	50.0	53.5	
87 Ethylbenzene	106	10.537	10.542	-0.005	98	256230	50.0	53.5	
88 m-Xylene & p-Xylene	106	10.671	10.670	0.001	97	310679	50.0	54.1	
89 o-Xylene	106	11.054	11.053	0.001	95	289707	50.0	53.0	
90 Styrene	104	11.072	11.078	-0.006	96	459349	50.0	53.1	
91 Bromoform	173	11.255	11.254	0.001	98	60989	50.0	57.0	
93 Isopropylbenzene	105	11.425	11.424	0.001	94	716102	50.0	52.3	
95 Bromobenzene	156	11.735	11.735	0.000	88	186851	50.0	49.4	
96 1,1,2,2-Tetrachloroethane	83	11.735	11.741	-0.006	77	145743	50.0	59.9	
97 trans-1,4-Dichloro-2-buten	53	11.772	11.771	0.001	80	40199	50.0	51.2	
98 1,2,3-Trichloropropane	110	11.790	11.789	0.001	87	54500	50.0	52.1	
99 N-Propylbenzene	120	11.845	11.838	0.007	98	215686	50.0	49.0	
100 2-Chlorotoluene	126	11.930	11.929	0.001	98	186155	50.0	51.8	
102 1,3,5-Trimethylbenzene	105	12.021	12.021	0.000	95	559427	50.0	50.7	
103 4-Chlorotoluene	126	12.052	12.051	0.001	96	192621	50.0	51.7	
104 tert-Butylbenzene	119	12.338	12.337	0.001	91	487613	50.0	49.5	
106 1,2,4-Trimethylbenzene	105	12.398	12.398	0.000	95	551361	50.0	50.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
108 sec-Butylbenzene	105	12.557	12.562	-0.005	93	656500	50.0	49.8	
109 1,3-Dichlorobenzene	146	12.678	12.678	0.000	98	355014	50.0	50.3	
110 4-Isopropyltoluene	119	12.715	12.714	0.001	97	579370	50.0	50.3	
111 1,4-Dichlorobenzene	146	12.782	12.781	0.001	98	370772	50.0	51.7	
116 n-Butylbenzene	91	13.122	13.122	0.000	97	403854	50.0	48.3	
117 1,2-Dichlorobenzene	146	13.141	13.140	0.001	99	345147	50.0	52.2	
118 1,2-Dibromo-3-Chloropropan	75	13.925	13.931	-0.006	82	16403	50.0	49.3	
122 1,2,4-Trichlorobenzene	180	14.747	14.752	-0.005	95	150140	50.0	47.5	
123 Hexachlorobutadiene	225	14.899	14.898	0.001	94	74622	50.0	49.3	
124 Naphthalene	128	15.020	15.020	0.000	96	366629	50.0	50.1	
125 1,2,3-Trichlorobenzene	180	15.245	15.245	0.000	96	149797	50.0	56.7	
S 130 1,2-Dichloroethene, Total	96				0		100.0	107.5	
S 131 Xylenes, Total	106				0		100.0	107.2	
S 132 1,3-Dichloropropene, Total	1				0		100.0	105.1	

**Reagents:**

VOAACRPRI_00024	Amount Added: 6.00	Units: uL	
voaWKetmix1st_00022	Amount Added: 2.00	Units: uL	
VOA8260VOAPRI_00388	Amount Added: 2.00	Units: uL	
VOAVAPRI_00032	Amount Added: 2.00	Units: uL	
VOACEVE2ND_00035	Amount Added: 2.00	Units: uL	
VOA8260INT_00103	Amount Added: 2.00	Units: uL	Run Reagent
VOA8260SURR_00103	Amount Added: 2.00	Units: uL	Run Reagent

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012504.D

Injection Date: 25-Jan-2020 11:58:30

Instrument ID: CHHP6

Operator ID: 433269

Lims ID: LCS

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

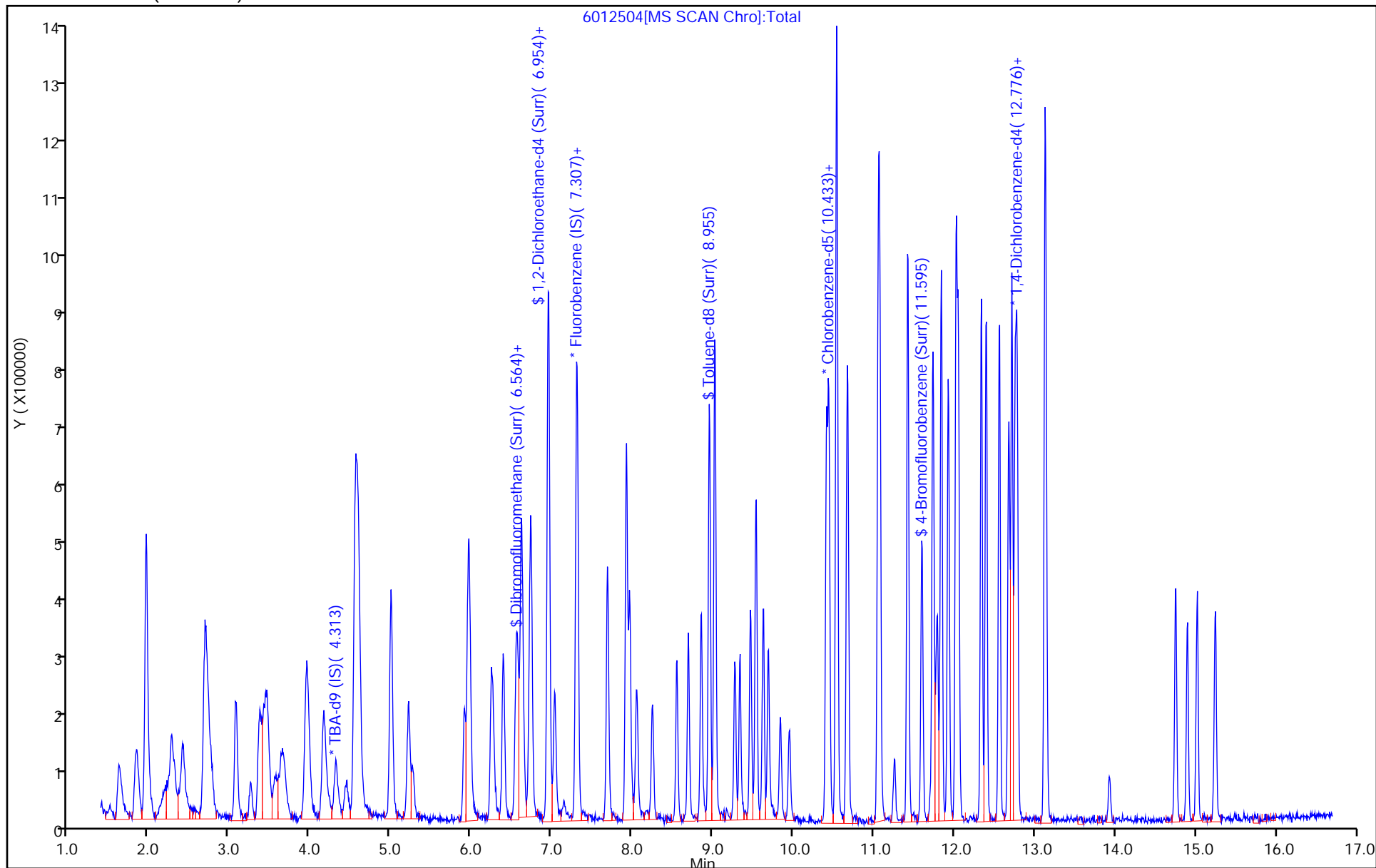
Dil. Factor: 1.0000

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\20200125-30512.b\6012504.D  
 Lims ID: LCS  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 25-Jan-2020 11:58:30 ALS Bottle#: 4 Worklist Smp#: 4  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 180-0030512-004  
 Misc. Info.: lcs  
 Operator ID: 433269 Instrument ID: CHHP6  
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\MSVOA\_LL\_CHHP6.m  
 Limit Group: VOA 8260C\_D ICAL  
 Last Update: 25-Jan-2020 16:18:50 Calib Date: 31-Dec-2019 16:03:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123111.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0321

First Level Reviewer: bowieh

Date: 25-Jan-2020 16:19:09

Compound	Amount Added	Amount Recovered	% Rec.
\$ 5 Dibromofluoromethane (Surr)	50.0	52.3	104.60
\$ 6 1,2-Dichloroethane-d4 (Surr)	50.0	55.2	110.33
\$ 7 Toluene-d8 (Surr)	50.0	50.7	101.34
\$ 8 4-Bromofluorobenzene (Surr)	50.0	49.3	98.56

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-101459-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: HD-COD-SW-15-0/1-0 MS Lab Sample ID: 180-101459-10 MS  
 Matrix: Water Lab File ID: 6012521.D  
 Analysis Method: EPA 8260C Date Collected: 01/23/2020 13:15  
 Sample wt/vol: 5 (mL) Date Analyzed: 01/25/2020 19:48  
 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.: 304996 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	13.4		1.0	0.90
75-01-4	Vinyl chloride	12.7		1.0	0.88
74-83-9	Bromomethane	12.4		1.0	0.89
75-00-3	Chloroethane	12.6		1.0	0.90
75-35-4	1,1-Dichloroethene	11.1		1.0	0.55
67-64-1	Acetone	13.2		5.0	3.4
75-15-0	Carbon disulfide	12.0		1.0	0.88
75-09-2	Methylene Chloride	11.0		1.0	0.89
156-60-5	trans-1,2-Dichloroethene	11.4		1.0	0.67
1634-04-4	Methyl tert-butyl ether	10.6		1.0	0.59
75-34-3	1,1-Dichloroethane	12.4		1.0	0.63
156-59-2	cis-1,2-Dichloroethene	11.3		1.0	0.71
74-97-5	Bromochloromethane	9.88		1.0	0.63
78-93-3	2-Butanone (MEK)	16.9		5.0	2.6
67-66-3	Chloroform	10.0		1.0	0.60
71-55-6	1,1,1-Trichloroethane	10.0		1.0	0.60
56-23-5	Carbon tetrachloride	10.7		1.0	0.88
71-43-2	Benzene	10.9		1.0	0.60
107-06-2	1,2-Dichloroethane	11.0		1.0	0.57
79-01-6	Trichloroethene	11.7		1.0	0.69
78-87-5	1,2-Dichloropropane	12.2		1.0	0.66
75-27-4	Bromodichloromethane	10.0		1.0	0.64
10061-01-5	cis-1,3-Dichloropropene	9.14		1.0	0.59
108-10-1	4-Methyl-2-pentanone (MIBK)	20.5		5.0	3.1
108-88-3	Toluene	11.0		1.0	0.46
10061-02-6	trans-1,3-Dichloropropene	9.82		1.0	0.58
79-00-5	1,1,2-Trichloroethane	10.7		1.0	0.45
127-18-4	Tetrachloroethene	12.5		1.0	0.47
591-78-6	2-Hexanone	18.1		5.0	3.3
124-48-1	Dibromochloromethane	9.87		1.0	0.84
106-93-4	1,2-Dibromoethane (EDB)	10.5		1.0	0.50
108-90-7	Chlorobenzene	10.2		1.0	0.50
630-20-6	1,1,1,2-Tetrachloroethane	10.4		1.0	0.57
100-41-4	Ethylbenzene	10.3		1.0	0.51
1330-20-7	Xylenes, Total	20.9		2.0	0.89
100-42-5	Styrene	9.94		1.0	0.47

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-101459-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: HD-COD-SW-15-0/1-0 MS Lab Sample ID: 180-101459-10 MS  
 Matrix: Water Lab File ID: 6012521.D  
 Analysis Method: EPA 8260C Date Collected: 01/23/2020 13:15  
 Sample wt/vol: 5 (mL) Date Analyzed: 01/25/2020 19:48  
 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.: 304996 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	9.47		1.0	0.98
79-34-5	1,1,2,2-Tetrachloroethane	11.0		1.0	0.60
107-13-1	Acrylonitrile	123		20	7.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		70-150
2037-26-5	Toluene-d8 (Surr)	105		78-128
460-00-4	4-Bromofluorobenzene (Surr)	90		64-123
1868-53-7	Dibromofluoromethane (Surr)	100		75-147

Eurofins TestAmerica, Pittsburgh  
Target Compound Quantitation Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012521.D  
 Lims ID: 180-101459-B-10 MS  
 Client ID: HD-COD-SW-15-0/1-0  
 Sample Type: MS  
 Inject. Date: 25-Jan-2020 19:48:30 ALS Bottle#: 15 Worklist Smp#: 21  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 180-0030512-021  
 Misc. Info.: 180-101459-b-10 ms  
 Operator ID: 433269 Instrument ID: CHHP6  
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\MSVOA\_LL\_CHHP6.m  
 Limit Group: VOA 8260C\_D ICAL  
 Last Update: 28-Jan-2020 09:46:25 Calib Date: 31-Dec-2019 16:03:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123111.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0335

First Level Reviewer: bowieh

Date: 28-Jan-2020 09:46:48

Compound	Sig	RT (min.)	Exp RT (min.)	Diff RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.311	4.319	-0.008	86	153534	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.304	7.306	-0.002	99	552389	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.413	10.408	0.005	84	136351	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.755	12.757	-0.002	93	225217	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.580	6.582	-0.002	93	124180	50.0	49.9	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.951	6.953	-0.002	50	138513	50.0	53.5	
\$ 7 Toluene-d8 (Surr)	98	8.959	8.954	0.005	93	532126	50.0	52.7	
\$ 8 4-Bromofluorobenzene (Surr	95	11.599	11.595	0.004	0	162997	50.0	45.2	
12 Chloromethane	50	1.841	1.837	0.004	99	282241	50.0	67.0	
13 Vinyl chloride	62	1.951	1.952	-0.001	82	230467	50.0	63.6	
15 Bromomethane	94	2.285	2.287	-0.002	92	143157	50.0	61.9	
16 Chloroethane	64	2.407	2.421	-0.014	98	166532	50.0	63.1	
22 1,1-Dichloroethene	96	3.368	3.370	-0.002	98	147156	50.0	55.6	
24 Acetone	43	3.478	3.473	0.005	98	89256	100.0	66.2	
26 Carbon disulfide	76	3.660	3.662	-0.002	100	356650	50.0	59.9	
31 Methylene Chloride	84	4.165	4.155	0.010	98	173969	50.0	54.9	
33 Acrylonitrile	53	4.554	4.556	-0.002	99	669111	500.0	616.6	
34 trans-1,2-Dichloroethene	96	4.585	4.574	0.011	99	171305	50.0	57.0	
35 Methyl tert-butyl ether	73	4.603	4.611	-0.008	97	309919	50.0	53.2	
37 1,1-Dichloroethane	63	5.217	5.219	-0.002	96	300090	50.0	61.8	
43 cis-1,2-Dichloroethene	96	5.972	5.967	0.005	80	183354	50.0	56.6	
44 2-Butanone (MEK)	43	5.984	5.980	0.004	98	143417	100.0	84.6	
48 Chlorobromomethane	128	6.252	6.247	0.005	93	82273	50.0	49.4	
50 Chloroform	83	6.398	6.393	0.005	94	231993	50.0	50.1	
51 1,1,1-Trichloroethane	97	6.550	6.558	-0.008	99	186391	50.0	50.0	
53 Carbon tetrachloride	117	6.726	6.722	0.004	95	166915	50.0	53.3	
56 Benzene	78	6.957	6.959	-0.002	96	651857	50.0	54.6	
57 1,2-Dichloroethane	62	7.036	7.038	-0.002	94	180728	50.0	55.0	
61 Trichloroethene	130	7.693	7.689	0.004	92	206518	50.0	58.4	
64 1,2-Dichloropropane	63	7.967	7.963	0.004	95	170297	50.0	60.9	
68 Dichlorobromomethane	83	8.247	8.249	-0.002	96	131245	50.0	50.2	



Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
71 cis-1,3-Dichloropropene	75	8.697	8.699	-0.002	93	154449	50.0	45.7	
72 4-Methyl-2-pentanone (MIBK)	43	8.855	8.857	-0.002	99	247380	100.0	102.3	
73 Toluene	91	9.026	9.021	0.005	99	703567	50.0	54.8	
74 trans-1,3-Dichloropropene	75	9.275	9.277	-0.002	97	137883	50.0	49.1	
76 1,1,2-Trichloroethane	97	9.470	9.472	-0.002	92	125644	50.0	53.7	
77 Tetrachloroethene	164	9.537	9.538	-0.001	96	199023	50.0	62.7	
79 2-Hexanone	43	9.689	9.691	-0.002	99	188447	100.0	90.5	
81 Chlorodibromomethane	129	9.835	9.843	-0.008	90	97420	50.0	49.3	
82 Ethylene Dibromide	107	9.950	9.952	-0.002	98	121123	50.0	52.5	
84 Chlorobenzene	112	10.437	10.439	-0.002	96	437530	50.0	51.1	
86 1,1,1,2-Tetrachloroethane	131	10.534	10.530	0.004	93	131009	50.0	52.1	
87 Ethylbenzene	106	10.540	10.542	-0.002	98	253439	50.0	51.7	
88 m-Xylene & p-Xylene	106	10.674	10.670	0.004	97	311531		53.0	
89 o-Xylene	106	11.058	11.053	0.005	95	287650		51.5	
90 Styrene	104	11.076	11.078	-0.002	96	440156	50.0	49.7	
91 Bromoform	173	11.258	11.254	0.004	97	51846	50.0	47.4	
96 1,1,2,2-Tetrachloroethane	83	11.739	11.741	-0.002	77	137617	50.0	55.2	
S 131 Xylenes, Total	106				0		100.0	104.5	

**Reagents:**

VOACRPRI_00024	Amount Added: 6.00	Units: uL	
voaWKetmix1st_00022	Amount Added: 2.00	Units: uL	
VOA8260VOAPRI_00388	Amount Added: 2.00	Units: uL	
VOAVAPRI_00032	Amount Added: 2.00	Units: uL	
VOACEVE2ND_00035	Amount Added: 2.00	Units: uL	
VOA8260INT_00103	Amount Added: 2.00	Units: uL	Run Reagent
VOA8260SURRE_00103	Amount Added: 2.00	Units: uL	Run Reagent

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012521.D

Injection Date: 25-Jan-2020 19:48:30

Instrument ID: CHHP6

Operator ID: 433269

Lims ID: 180-101459-B-10 MS

Worklist Smp#: 21

Client ID: HD-COD-SW-15-0/1-0

Purge Vol: 5.000 mL

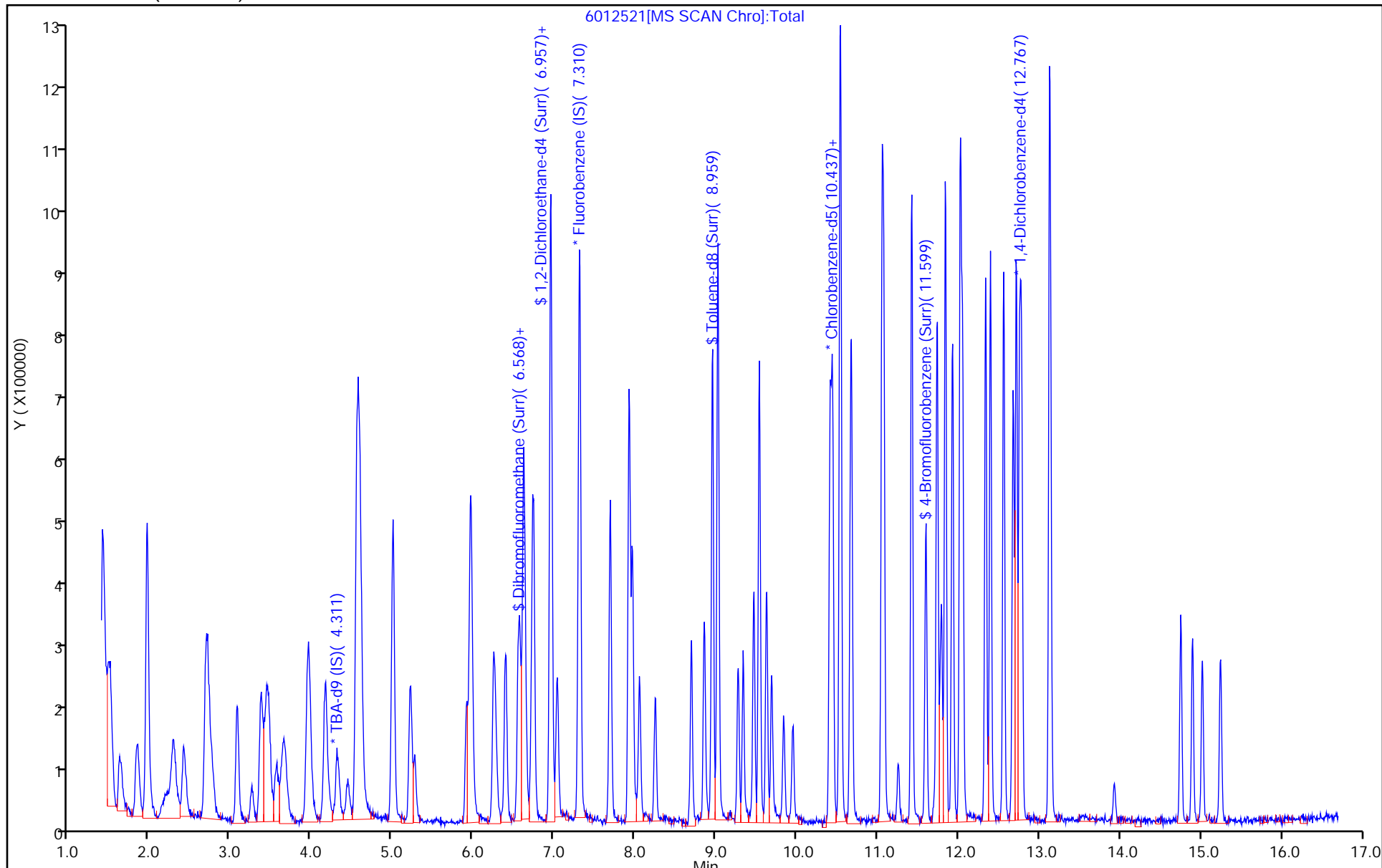
Dil. Factor: 1.0000

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\20200125-30512.b\6012521.D  
 Lims ID: 180-101459-B-10 MS  
 Client ID: HD-COD-SW-15-0/1-0  
 Sample Type: MS  
 Inject. Date: 25-Jan-2020 19:48:30 ALS Bottle#: 15 Worklist Smp#: 21  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 180-0030512-021  
 Misc. Info.: 180-101459-b-10 ms  
 Operator ID: 433269 Instrument ID: CHHP6  
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\MSVOA\_LL\_CHHP6.m  
 Limit Group: VOA 8260C\_D ICAL  
 Last Update: 28-Jan-2020 09:46:25 Calib Date: 31-Dec-2019 16:03:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123111.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0335

First Level Reviewer: bowieh

Date: 28-Jan-2020 09:46:48

Compound	Amount Added	Amount Recovered	% Rec.
\$ 5 Dibromofluoromethane (Surr)	50.0	49.9	99.78
\$ 6 1,2-Dichloroethane-d4 (Surr)	50.0	53.5	106.95
\$ 7 Toluene-d8 (Surr)	50.0	52.7	105.36
\$ 8 4-Bromofluorobenzene (Surr)	50.0	45.2	90.36

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-101459-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: HD-COD-SW-15-0/1-0 MSD Lab Sample ID: 180-101459-10 MSD  
 Matrix: Water Lab File ID: 6012522.D  
 Analysis Method: EPA 8260C Date Collected: 01/23/2020 13:15  
 Sample wt/vol: 5 (mL) Date Analyzed: 01/25/2020 20:15  
 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.: 304996 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	14.6		1.0	0.90
75-01-4	Vinyl chloride	14.8		1.0	0.88
74-83-9	Bromomethane	12.5		1.0	0.89
75-00-3	Chloroethane	14.1		1.0	0.90
75-35-4	1,1-Dichloroethene	13.4		1.0	0.55
67-64-1	Acetone	14.5		5.0	3.4
75-15-0	Carbon disulfide	13.9		1.0	0.88
75-09-2	Methylene Chloride	12.0		1.0	0.89
156-60-5	trans-1,2-Dichloroethene	13.1		1.0	0.67
1634-04-4	Methyl tert-butyl ether	13.0		1.0	0.59
75-34-3	1,1-Dichloroethane	13.5		1.0	0.63
156-59-2	cis-1,2-Dichloroethene	13.0		1.0	0.71
74-97-5	Bromochloromethane	12.1		1.0	0.63
78-93-3	2-Butanone (MEK)	19.5		5.0	2.6
67-66-3	Chloroform	13.2		1.0	0.60
71-55-6	1,1,1-Trichloroethane	13.2		1.0	0.60
56-23-5	Carbon tetrachloride	13.0		1.0	0.88
71-43-2	Benzene	14.4		1.0	0.60
107-06-2	1,2-Dichloroethane	13.0		1.0	0.57
79-01-6	Trichloroethene	12.4		1.0	0.69
78-87-5	1,2-Dichloropropane	12.6		1.0	0.66
75-27-4	Bromodichloromethane	11.4		1.0	0.64
10061-01-5	cis-1,3-Dichloropropene	10.8		1.0	0.59
108-10-1	4-Methyl-2-pentanone (MIBK)	22.5		5.0	3.1
108-88-3	Toluene	12.4		1.0	0.46
10061-02-6	trans-1,3-Dichloropropene	11.3		1.0	0.58
79-00-5	1,1,2-Trichloroethane	12.1		1.0	0.45
127-18-4	Tetrachloroethene	14.2		1.0	0.47
591-78-6	2-Hexanone	18.2		5.0	3.3
124-48-1	Dibromochloromethane	11.4		1.0	0.84
106-93-4	1,2-Dibromoethane (EDB)	11.9		1.0	0.50
108-90-7	Chlorobenzene	12.0		1.0	0.50
630-20-6	1,1,1,2-Tetrachloroethane	11.8		1.0	0.57
100-41-4	Ethylbenzene	12.0		1.0	0.51
1330-20-7	Xylenes, Total	24.0		2.0	0.89
100-42-5	Styrene	12.0		1.0	0.47

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-101459-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: HD-COD-SW-15-0/1-0 MSD Lab Sample ID: 180-101459-10 MSD  
 Matrix: Water Lab File ID: 6012522.D  
 Analysis Method: EPA 8260C Date Collected: 01/23/2020 13:15  
 Sample wt/vol: 5 (mL) Date Analyzed: 01/25/2020 20:15  
 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.: 304996 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	11.7		1.0	0.98
79-34-5	1,1,2,2-Tetrachloroethane	13.5		1.0	0.60
107-13-1	Acrylonitrile	140		20	7.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	124		70-150
2037-26-5	Toluene-d8 (Surr)	109		78-128
460-00-4	4-Bromofluorobenzene (Surr)	101		64-123
1868-53-7	Dibromofluoromethane (Surr)	116		75-147

Eurofins TestAmerica, Pittsburgh  
Target Compound Quantitation Report

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012522.D  
 Lims ID: 180-101459-C-10 MSD  
 Client ID: HD-COD-SW-15-0/1-0  
 Sample Type: MSD  
 Inject. Date: 25-Jan-2020 20:15:30 ALS Bottle#: 16 Worklist Smp#: 22  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 180-0030512-022  
 Misc. Info.: 180-101459-c-10 msd  
 Operator ID: 433269 Instrument ID: CHHP6  
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\MSVOA\_LL\_CHHP6.m  
 Limit Group: VOA 8260C\_D ICAL  
 Last Update: 28-Jan-2020 09:47:37 Calib Date: 31-Dec-2019 16:03:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123111.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0335

First Level Reviewer: bowieh

Date: 28-Jan-2020 09:47:37

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.320	4.319	0.001	88	157563	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.306	7.306	0.000	99	523391	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.409	10.408	0.001	83	128722	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.757	12.757	0.000	91	237748	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.576	6.582	-0.006	95	136472	50.0	57.9	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.948	6.953	-0.005	52	152320	50.0	62.1	
\$ 7 Toluene-d8 (Surr)	98	8.955	8.954	0.001	93	520667	50.0	54.6	
\$ 8 4-Bromofluorobenzene (Surr	95	11.595	11.595	0.000	0	172788	50.0	50.7	
12 Chloromethane	50	1.825	1.837	-0.012	99	290746	50.0	72.9	
13 Vinyl chloride	62	1.953	1.952	0.001	70	254034	50.0	74.0	
15 Bromomethane	94	2.269	2.287	-0.018	93	137310	50.0	62.7	
16 Chloroethane	64	2.403	2.421	-0.018	99	175817	50.0	70.3	
22 1,1-Dichloroethene	96	3.364	3.370	-0.006	98	168127	50.0	67.1	
24 Acetone	43	3.468	3.473	-0.005	99	92771	100.0	72.6	M
26 Carbon disulfide	76	3.656	3.662	-0.006	100	393204	50.0	69.7	
31 Methylene Chloride	84	4.167	4.155	0.012	98	178572	50.0	60.0	
33 Acrylonitrile	53	4.563	4.556	0.007	99	720819	500.0	701.1	
34 trans-1,2-Dichloroethene	96	4.587	4.574	0.013	98	186353	50.0	65.4	
35 Methyl tert-butyl ether	73	4.612	4.611	0.001	96	358917	50.0	65.0	
37 1,1-Dichloroethane	63	5.220	5.219	0.001	96	311323	50.0	67.7	
43 cis-1,2-Dichloroethene	96	5.968	5.967	0.001	82	199189	50.0	64.9	
44 2-Butanone (MEK)	43	5.992	5.980	0.012	99	156574	100.0	97.4	
48 Chlorobromomethane	128	6.248	6.247	0.001	95	95436	50.0	60.5	
50 Chloroform	83	6.394	6.393	0.001	97	284168	50.0	65.9	
51 1,1,1-Trichloroethane	97	6.558	6.558	0.000	98	232530	50.0	65.8	
53 Carbon tetrachloride	117	6.722	6.722	0.000	97	193444	50.0	65.1	
56 Benzene	78	6.960	6.959	0.001	97	812254	50.0	71.8	
57 1,2-Dichloroethane	62	7.039	7.038	0.001	95	201998	50.0	64.8	
61 Trichloroethene	130	7.696	7.689	0.007	90	208419	50.0	62.2	
64 1,2-Dichloropropane	63	7.964	7.963	0.001	93	166459	50.0	62.9	
68 Dichlorobromomethane	83	8.243	8.249	-0.006	96	141588	50.0	57.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
71 cis-1,3-Dichloropropene	75	8.694	8.699	-0.005	93	172678	50.0	53.9	
72 4-Methyl-2-pentanone (MIBK)	43	8.852	8.857	-0.005	98	257285	100.0	112.7	
73 Toluene	91	9.022	9.021	0.001	99	754624	50.0	62.2	
74 trans-1,3-Dichloropropene	75	9.271	9.277	-0.006	96	149808	50.0	56.5	
76 1,1,2-Trichloroethane	97	9.466	9.472	-0.006	89	133063	50.0	60.3	
77 Tetrachloroethene	164	9.539	9.538	0.001	95	213397	50.0	71.2	
79 2-Hexanone	43	9.691	9.691	0.000	99	178589	100.0	90.8	
81 Chlorodibromomethane	129	9.837	9.843	-0.006	91	106132	50.0	56.9	
82 Ethylene Dibromide	107	9.953	9.952	0.001	97	129545	50.0	59.5	
84 Chlorobenzene	112	10.439	10.439	0.000	97	483186	50.0	59.8	
86 1,1,1,2-Tetrachloroethane	131	10.537	10.530	0.007	93	140257	50.0	59.1	
87 Ethylbenzene	106	10.543	10.542	0.001	98	277807	50.0	60.0	
88 m-Xylene & p-Xylene	106	10.677	10.670	0.007	98	332957		60.0	
89 o-Xylene	106	11.054	11.053	0.001	95	315640		59.8	
90 Styrene	104	11.072	11.078	-0.006	97	501451	50.0	60.0	
91 Bromoform	173	11.255	11.254	0.001	97	60617	50.0	58.7	
96 1,1,2,2-Tetrachloroethane	83	11.735	11.741	-0.006	78	159260	50.0	67.7	
S 131 Xylenes, Total	106				0		100.0	119.8	

### QC Flag Legend

Review Flags

M - Manually Integrated

### Reagents:

VOAACRPRI_00024	Amount Added: 6.00	Units: uL	
voaWKetmix1st_00022	Amount Added: 2.00	Units: uL	
VOA8260VOAPRI_00388	Amount Added: 2.00	Units: uL	
VOAVAPRI_00032	Amount Added: 2.00	Units: uL	
VOACEVE2ND_00035	Amount Added: 2.00	Units: uL	
VOA8260INT_00103	Amount Added: 2.00	Units: uL	Run Reagent
VOA8260SURR_00103	Amount Added: 2.00	Units: uL	Run Reagent

Eurofins TestAmerica, Pittsburgh

Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012522.D

Injection Date: 25-Jan-2020 20:15:30 Instrument ID: CHHP6

Operator ID: 433269

Lims ID: 180-101459-C-10 MSD

Worklist Smp#: 22

Client ID: HD-COD-SW-15-0/1-0

Purge Vol: 5.000 mL

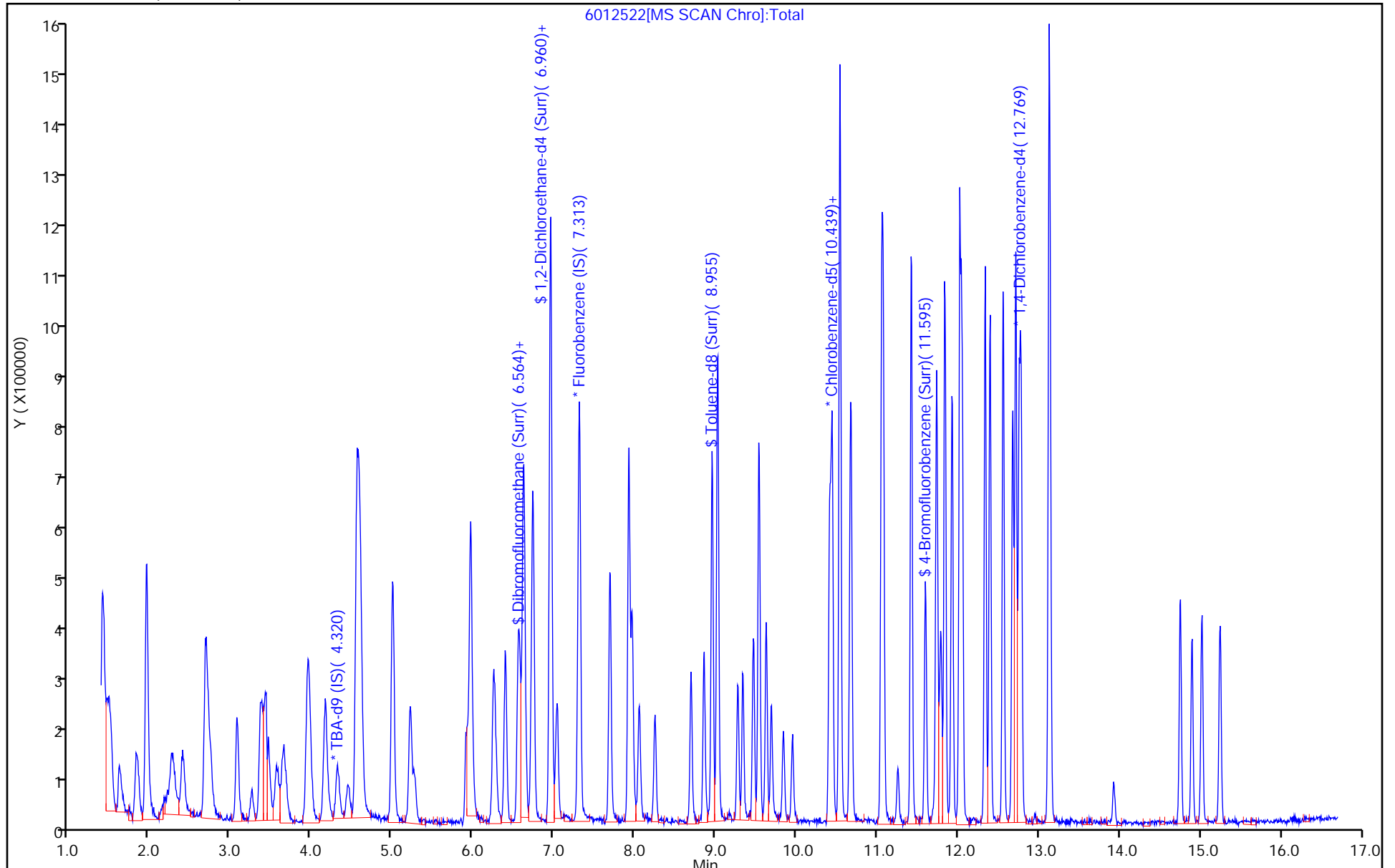
Dil. Factor: 1.0000

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\20200125-30512.b\6012522.D  
 Lims ID: 180-101459-C-10 MSD  
 Client ID: HD-COD-SW-15-0/1-0  
 Sample Type: MSD  
 Inject. Date: 25-Jan-2020 20:15:30 ALS Bottle#: 16 Worklist Smp#: 22  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 180-0030512-022  
 Misc. Info.: 180-101459-c-10 msd  
 Operator ID: 433269 Instrument ID: CHHP6  
 Method: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\MSVOA\_LL\_CHHP6.m  
 Limit Group: VOA 8260C\_D ICAL  
 Last Update: 28-Jan-2020 09:47:37 Calib Date: 31-Dec-2019 16:03:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Pittsburgh\ChromData\CHHP6\20191231-30232.b\6123111.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0335

First Level Reviewer: bowieh

Date: 28-Jan-2020 09:47:37

Compound	Amount Added	Amount Recovered	% Rec.
\$ 5 Dibromofluoromethane (Surr)	50.0	57.9	115.73
\$ 6 1,2-Dichloroethane-d4 (Surr)	50.0	62.1	124.12
\$ 7 Toluene-d8 (Surr)	50.0	54.6	109.20
\$ 8 4-Bromofluorobenzene (Surr)	50.0	50.7	101.47

Eurofins TestAmerica, Pittsburgh

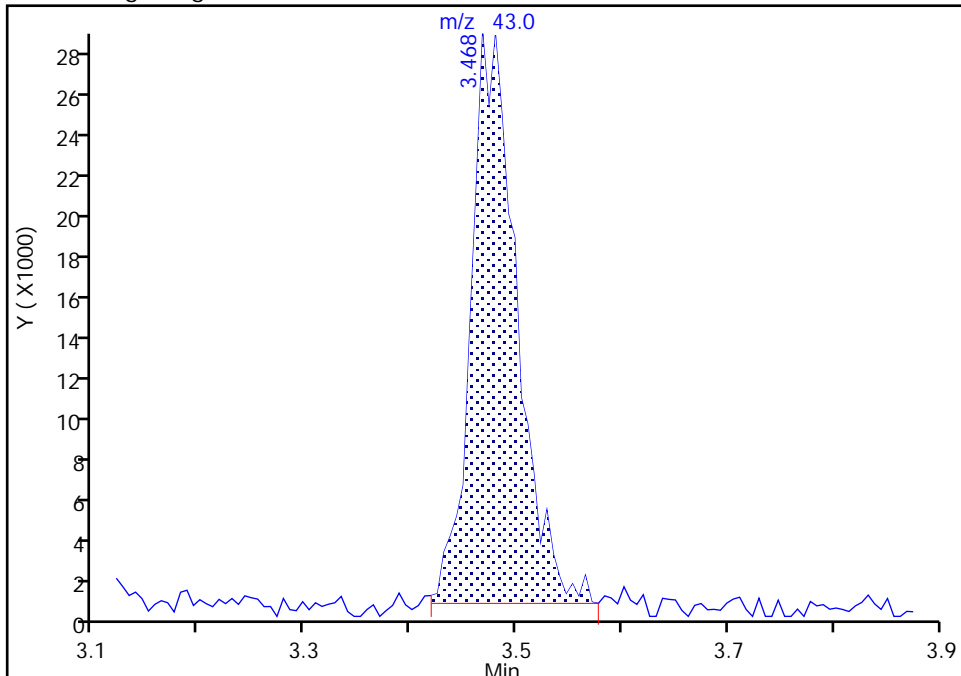
Data File: \\chromna\Pittsburgh\ChromData\CHHP6\20200125-30512.b\6012522.D  
Injection Date: 25-Jan-2020 20:15:30 Instrument ID: CHHP6  
Lims ID: 180-101459-C-10 MSD  
Client ID: HD-COD-SW-15-0/1-0  
Operator ID: 433269 ALS Bottle#: 16 Worklist Smp#: 22  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: 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

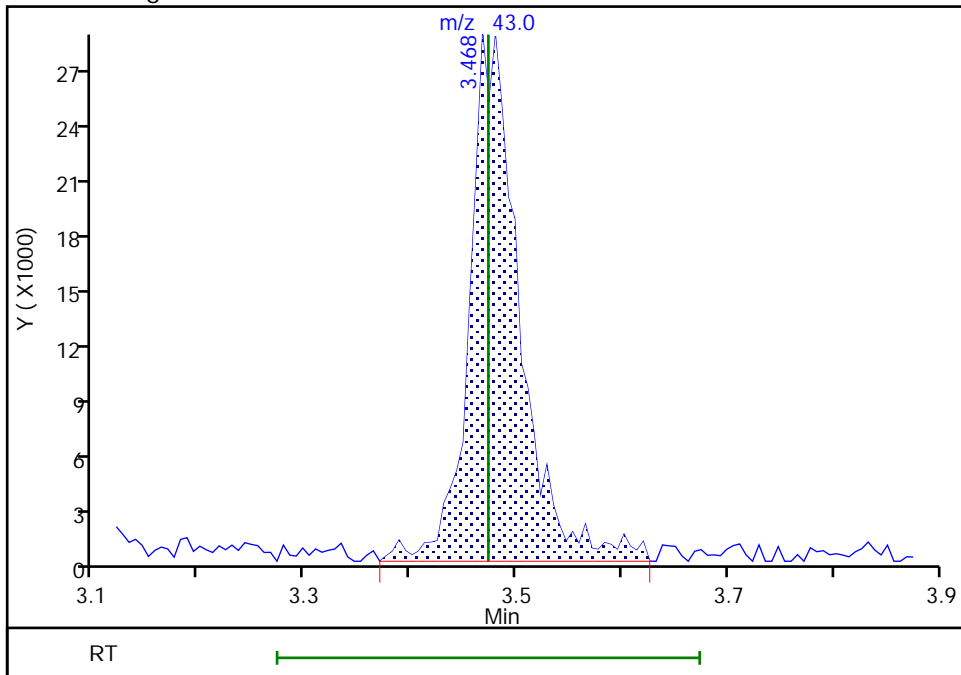
RT: 3.47  
Area: 82720  
Amount: 64.754555  
Amount Units: ng

Processing Integration Results



RT: 3.47  
Area: 92771  
Amount: 72.622641  
Amount Units: ng

Manual Integration Results



Reviewer: bowieh, 28-Jan-2020 09:47:14  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography  
Page 870 of 880

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-101459-1

SDG No.: \_\_\_\_\_

Instrument ID: CHHP6 Start Date: 12/31/2019 11:25

Analysis Batch Number: 302982 End Date: 12/31/2019 23:33

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 180-302982/1		12/31/2019 11:25	1	6123101A.D	DB-624 0.18 (mm)
IC 180-302982/4		12/31/2019 12:53	1	6123104.D	DB-624 0.18 (mm)
IC 180-302982/5		12/31/2019 13:20	1	6123105.D	DB-624 0.18 (mm)
ICIS 180-302982/6		12/31/2019 13:47	1	6123106.D	DB-624 0.18 (mm)
IC 180-302982/7		12/31/2019 14:14	1	6123107.D	DB-624 0.18 (mm)
IC 180-302982/8		12/31/2019 14:41	1	6123108.D	DB-624 0.18 (mm)
IC 180-302982/9		12/31/2019 15:08	1	6123109.D	DB-624 0.18 (mm)
IC 180-302982/10		12/31/2019 15:36	1	6123110.D	DB-624 0.18 (mm)
IC 180-302982/11		12/31/2019 16:03	1	6123111.D	DB-624 0.18 (mm)
ICV 180-302982/18		12/31/2019 18:52	1		DB-624 0.18 (mm)
ZZZZZ		12/31/2019 18:52	1		DB-624 0.18 (mm)
ZZZZZ		12/31/2019 19:19	1		DB-624 0.18 (mm)
ZZZZZ		12/31/2019 19:47	1		DB-624 0.18 (mm)
ZZZZZ		12/31/2019 20:23	1		DB-624 0.18 (mm)
ZZZZZ		12/31/2019 20:50	1		DB-624 0.18 (mm)
ZZZZZ		12/31/2019 21:44	1		DB-624 0.18 (mm)
ZZZZZ		12/31/2019 22:11	1		DB-624 0.18 (mm)
ZZZZZ		12/31/2019 23:05	2.5		DB-624 0.18 (mm)
ZZZZZ		12/31/2019 23:33	5		DB-624 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-101459-1

SDG No.: \_\_\_\_\_

Instrument ID: CHHP6 Start Date: 01/25/2020 09:41

Analysis Batch Number: 304996 End Date: 01/25/2020 20:15

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 180-304996/1		01/25/2020 09:41	1	6012501.D	DB-624 0.18 (mm)
CCVIS 180-304996/3		01/25/2020 11:31	1	6012503A.D	DB-624 0.18 (mm)
LCS 180-304996/4		01/25/2020 11:58	1	6012504.D	DB-624 0.18 (mm)
ZZZZZ		01/25/2020 12:26	1		DB-624 0.18 (mm)
MB 180-304996/6		01/25/2020 12:53	1	6012506.D	DB-624 0.18 (mm)
180-101459-10		01/25/2020 13:27	1	6012507.D	DB-624 0.18 (mm)
180-101459-1		01/25/2020 13:54	1	6012508.D	DB-624 0.18 (mm)
180-101459-2		01/25/2020 14:21	1	6012509.D	DB-624 0.18 (mm)
180-101459-3		01/25/2020 14:49	1	6012510.D	DB-624 0.18 (mm)
180-101459-4		01/25/2020 15:16	1	6012511.D	DB-624 0.18 (mm)
180-101459-5		01/25/2020 15:43	1	6012512.D	DB-624 0.18 (mm)
180-101459-6		01/25/2020 16:10	1	6012513.D	DB-624 0.18 (mm)
180-101459-7		01/25/2020 16:38	1	6012514.D	DB-624 0.18 (mm)
180-101459-8		01/25/2020 17:05	1	6012515.D	DB-624 0.18 (mm)
180-101459-9		01/25/2020 17:32	1	6012516.D	DB-624 0.18 (mm)
180-101459-11		01/25/2020 17:59	1	6012517.D	DB-624 0.18 (mm)
180-101459-12		01/25/2020 18:26	1	6012518.D	DB-624 0.18 (mm)
180-101459-13		01/25/2020 18:54	1	6012519.D	DB-624 0.18 (mm)
180-101459-14		01/25/2020 19:21	1	6012520.D	DB-624 0.18 (mm)
180-101459-10 MS		01/25/2020 19:48	1	6012521.D	DB-624 0.18 (mm)
180-101459-10 MSD		01/25/2020 20:15	1	6012522.D	DB-624 0.18 (mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Pittsbur Job No.: 180-101459-1

SDG No.: \_\_\_\_\_

Batch Number: 304996 Batch Start Date: 01/25/20 09:41 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	VOA BFB25 00006	VOA8260INT 00103	VOA8260SURR 00103
BFB 180-304996/1		EPA 8260C		5 mL	5 mL		1 uL		
CCVIS 180-304996/3		EPA 8260C		5 mL	5 mL			2 uL	2 uL
LCS 180-304996/4		EPA 8260C		5 mL	5 mL			2 uL	2 uL
MB 180-304996/6		EPA 8260C		5 mL	5 mL			2 uL	2 uL
180-101459-B-10	HD-COD-SW-15-0/1-0	EPA 8260C	T	5 mL	5 mL	<2 SU		2 uL	2 uL
180-101459-B-1	HD-COD-SW-29-0/1-0	EPA 8260C	T	5 mL	5 mL	<2 SU		2 uL	2 uL
180-101459-B-2	HD-COD-SW-8-0/1-0	EPA 8260C	T	5 mL	5 mL	<2 SU		2 uL	2 uL
180-101459-B-3	HD-COD-SW-13-0/1-0	EPA 8260C	T	5 mL	5 mL	<2 SU		2 uL	2 uL
180-101459-B-4	HD-COD-SW-16-0/1-0	EPA 8260C	T	5 mL	5 mL	<2 SU		2 uL	2 uL
180-101459-B-5	HD-COD-SW-17-0/1-0	EPA 8260C	T	5 mL	5 mL	<2 SU		2 uL	2 uL
180-101459-B-6	HD-COD-SW-6-0/1-0	EPA 8260C	T	5 mL	5 mL	<2 SU		2 uL	2 uL
180-101459-B-7	HD-COD-SW-26-0/1-0	EPA 8260C	T	5 mL	5 mL	<2 SU		2 uL	2 uL
180-101459-B-8	HD-COD-SW-7-0/1-0	EPA 8260C	T	5 mL	5 mL	<2 SU		2 uL	2 uL
180-101459-B-9	HD-COD-SW-27-0/1-0	EPA 8260C	T	5 mL	5 mL	<2 SU		2 uL	2 uL
180-101459-B-11	HD-QC1-0/1-1	EPA 8260C	T	5 mL	5 mL	<2 SU		2 uL	2 uL
180-101459-B-12	HD-COD-SW-9-0/1-0	EPA 8260C	T	5 mL	5 mL	<2 SU		2 uL	2 uL
180-101459-B-13	HD-COD-SW-28-0/1-0	EPA 8260C	T	5 mL	5 mL	<2 SU		2 uL	2 uL
180-101459-A-14	HD-QC1-0/1-2	EPA 8260C	T	5 mL	5 mL	>2 SU		2 uL	2 uL
180-101459-B-10 MS	HD-COD-SW-15-0/1-0	EPA 8260C	T	5 mL	5 mL	<2 SU		2 uL	2 uL
180-101459-C-10 MSD	HD-COD-SW-15-0/1-0	EPA 8260C	T	5 mL	5 mL	<2 SU		2 uL	2 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	VOA8260VOAPRI 00388	VOAACRPRI 00024	VOACEVE2ND 00035	VOAVAPRI 00032	voaWKetmix1st 00022

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.: 180-101459-1

SDG No.: \_\_\_\_\_

Batch Number: 304996 Batch Start Date: 01/25/20 09:41 Batch Analyst: Bowie, Hannah R

Batch Method: EPA 8260C Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	VOA8260VOAPRI 00388	VOAACRPRI 00024	VOACEVE2ND 00035	VOAVAPRI 00032	voaWKetmix1st 00022	
BFB 180-304996/1		EPA 8260C							
CCVIS 180-304996/3		EPA 8260C		2 uL	6 uL	2 uL	2 uL	2 uL	
LCS 180-304996/4		EPA 8260C		2 uL	6 uL	2 uL	2 uL	2 uL	
MB 180-304996/6		EPA 8260C							
180-101459-B-10	HD-COD-SW-15-0/1-0	EPA 8260C	T						
180-101459-B-1	HD-COD-SW-29-0/1-0	EPA 8260C	T						
180-101459-B-2	HD-COD-SW-8-0/1-0	EPA 8260C	T						
180-101459-B-3	HD-COD-SW-13-0/1-0	EPA 8260C	T						
180-101459-B-4	HD-COD-SW-16-0/1-0	EPA 8260C	T						
180-101459-B-5	HD-COD-SW-17-0/1-0	EPA 8260C	T						
180-101459-B-6	HD-COD-SW-6-0/1-0	EPA 8260C	T						
180-101459-B-7	HD-COD-SW-26-0/1-0	EPA 8260C	T						
180-101459-B-8	HD-COD-SW-7-0/1-0	EPA 8260C	T						
180-101459-B-9	HD-COD-SW-27-0/1-0	EPA 8260C	T						
180-101459-B-11	HD-QC1-0/1-1	EPA 8260C	T						
180-101459-B-12	HD-COD-SW-9-0/1-0	EPA 8260C	T						
180-101459-B-13	HD-COD-SW-28-0/1-0	EPA 8260C	T						
180-101459-A-14	HD-QC1-0/1-2	EPA 8260C	T						
180-101459-B-10 MS	HD-COD-SW-15-0/1-0	EPA 8260C	T	2 uL	6 uL	2 uL	2 uL	2 uL	
180-101459-C-10 MSD	HD-COD-SW-15-0/1-0	EPA 8260C	T	2 uL	6 uL	2 uL	2 uL	2 uL	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Pittsbur Job No.: 180-101459-1

SDG No.: \_\_\_\_\_

Batch Number: 304996 Batch Start Date: 01/25/20 09:41 Batch Analyst: Bowie, Hannah R

Batch Method: EPA 8260C Batch End Date: \_\_\_\_\_

Batch Notes	
Batch Comment	MeOH 3167194
pH Indicator ID	HC991818
Vial Lot Number	0217701E

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



**Harrisburg**

COC No: 180-57446-4180Z  
 Page: 2 of 3  
 Job #: 10012.42

Camera Tracking No: #267

Lab PM: Gamber, Carrie L  
 E-Mail: carrie.gamber@testamericainc.com

Sampler: Erin Peeling / Casey Littlefield  
 Phone: Chris O'Neil

Company: Groundwater Sciences Corporation  
 Address: 2601 Market Place Street, Suite 310  
 City: Harrisburg  
 State, Zip: PA, 17110-9307  
 Phone:  
 Email: emiller@groundwatersciences.com  
 Project Name: Hanley-Davidson fYNOP  
 Site: MONTHLY SW EVENT

Analysis Requested

Due Date Requested:  
 TAT Requested (days): STANDARD  
 PO #: Purchase Order not required  
 WO #:  
 Project #: 48010144-10012.42  
 SSOW#:

Field Filtered Sample (Yes or No)  
 Perform MS/MSD (Yes or No)  
 List for VOCs  
 520C Modified GARD  
 #3  
 3

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil, BT=Tissue, A=Air)
HD-COD-SW-29-0/1-0	1/23/20	1005	G	SW
Hb-COD-SW-B-0/1-0		1020		
HD-COD-SW-13-0/1-0		1040		
HD-COD-SW-16-0/1-0		1100		
HD-COD-SW-17-0/1-0		1105		
HD-COD-SW-6-0/1-0		1135		
HD-COD-SW-26-0/1-0		1235		
HD-COD-SW-7-0/1-0		1250		
HD-COD-SW-27-0/1-0		1305		
HD-COD-SW-15-0/1-0		1315		
HD-COD-SW-15-0/1-OMS		1315		

Special Instructions/Note:
SW = surface water


**Possible Hazard Identification**  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Radiological  
 Deliverable Requested: I, II, III, IV, Other (specify)

**Sample Disposal (A fee may be assessed if samples are retained longer)**  
 Return To Client  Disposal By Lab  Archive For Months

Empty Kit Relinquished by: [Signature]  
 Relinquished by: [Signature]  
 Relinquished by: [Signature]

Custody Seals Intact:  Yes  No  
 Custody Seal No.: [Blank]

Special Instructions/QC Requirements:  
 Date/Time: 1/23/20 1519  
 Date/Time: 1/23/20  
 Date/Time: 1/24/20 9:00  
 Company: ETA  
 Company: ETA  
 Company: ETA

180-101459 Chain of Custody  




# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Part # 159469-434 RIT2 EXP 11/19

ORIGIN ID:GTYA (717) 461-6245

TESTAMERICA HARRISBURG SC  
5020 RITTER RD  
SUITES 205/206  
MECHANICSBURG, PA 170554837  
UNITED STATES US

SHIP DATE: 23JAN20  
ACTWGT: 40.00 LB MAN  
CAD: 0129689/CAFE3211

BILL RECIPIENT

**SAMPLE RECEIVING**  
**TESTAMERICA PITTSBURGH**  
**301 ALPHA DRIVE**  
**RIDC PARK**  
**PITTSBURGH PA 152382907**

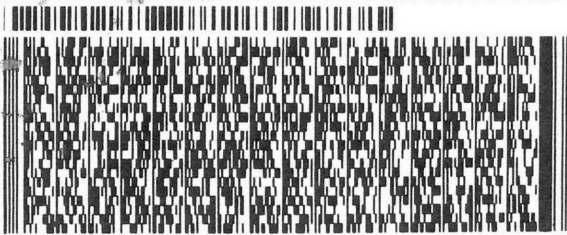
3901/28JL/21T55

(412) 983-7058

REF:

INU:  
PO:

DEPT:



**FedEx**  
Express



AN109090811181J

**FRI - 24 JAN 10:30A**  
**PRIORITY OVERNIGHT**

TRK# 4690 5823 3511  
0201

# NA AGCA

**15238**  
PA-US **PIT**

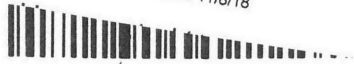
Uncorrected temp  
Thermometer ID

2.6 °C

10

CF ○ Initials B

PT-WI-SR-001 effective 11/8/18



180-101459 Waybill

# Login Sample Receipt Checklist

Client: Groundwater Sciences Corporation

Job Number: 180-101459-1

**Login Number: 101459**  
**List Number: 1**  
**Creator: Watson, Debbie**

**List Source: Eurofins TestAmerica, Pittsburgh**

<b>Question</b>	<b>Answer</b>	<b>Comment</b>
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	