

## ANALYTICAL REPORT

Job Number: 280-76268-3

Job Description: Fort Wingate, New Mexico

For:

Sundance Consulting, Inc  
6700 Jefferson Blvd NE  
Albuquerque, NM 87109

Attention: JohnDavid Nance



Approved for release.  
Michelle A Johnston  
Project Manager II  
12/10/2015 4:05 PM

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12/10/2015  
Revision: 1

cc: Elizabeth Farias  
Jim Lockhart  
Ben Moayyad  
Mr. Doug Scott

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is 4025.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

**TestAmerica Laboratories, Inc.**

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**CASE NARRATIVE**  
**Client: Sundance Consulting, Inc.**  
**Project: Fort Wingate, New Mexico**  
**Report Number: 280-76268-3**

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.

**Revision - 12/10/2015**

In accordance with the client's instructions provided on 12/02/2015, the data included in this report were revised from methods compliant with DOD QSM V5.0 to methods compliant with DOD QSM V4.2.

**Sample Receipt**

Seven samples were received on 11/3/2015 9:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 11 coolers at receipt time were 0.3°C, 0.6°C, 0.6°C, 0.7°C, 1.5°C, 1.6°C, 1.7°C, 1.9°C, 2.2°C, 2.6°C and 3.1°C.

Additional samples/analyses requested on the chain-of-custody are reported under separate cover (280-76268-1 & 280-76268-2).

No other anomalies were encountered during sample receipt.

**Ethylene Dibromide - 8011**

Samples FW31102015EQU002 (280-76268-3), MW18D102015 (280-76268-5), TMW35102015 (280-76268-6), MW22D102015 (280-76268-8), MW20102015 (280-76268-9) and DMW20102015 (280-76268-10) were analyzed for EDB and DBCP in accordance with 8011. The samples were prepared and analyzed on 11/05/2015.

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

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-76268-3

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

Instrument ID: SGC\_E Analysis Batch Number: 302773

Lab Sample ID: 280-76268-9 Client Sample ID: MW20102015

Date Analyzed: 11/05/15 17:55 Lab File ID: 008F0701.D GC Column: RTX-VRX ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dibromopropane	3.85	Baseline Smoothing	cokleyc	11/09/15 17:40

Lab Sample ID: 280-76268-9 MS Client Sample ID: MW20102015MS MS

Date Analyzed: 11/05/15 18:14 Lab File ID: 009F0801.D GC Column: RTX-VRX ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dibromopropane	3.85	Baseline Smoothing	cokleyc	11/09/15 17:41

Lab Sample ID: 280-76268-9 MSD Client Sample ID: MW20102015MSD MSD

Date Analyzed: 11/05/15 18:33 Lab File ID: 010F0901.D GC Column: RTX-VRX ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dibromopropane	3.85	Baseline Smoothing	cokleyc	11/09/15 17:42

Lab Sample ID: 280-76268-10 Client Sample ID: DMW20102015

Date Analyzed: 11/05/15 21:06 Lab File ID: 018F1701.D GC Column: RTX-VRX ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dibromopropane	3.86	Baseline Smoothing	cokleyc	11/09/15 17:44

# SAMPLE SUMMARY

Client: Sundance Consulting, Inc

Job Number: 280-76268-3

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Client Matrix</b>	<b>Date/Time Sampled</b>	<b>Date/Time Received</b>
280-76268-3	FW31102015EQU002	Water	11/02/2015 0930	11/03/2015 0920
280-76268-5	MW18D102015	Water	11/02/2015 1230	11/03/2015 0920
280-76268-6	TMW35102015	Water	11/02/2015 0955	11/03/2015 0920
280-76268-8	MW22D102015	Water	11/02/2015 1210	11/03/2015 0920
280-76268-9	MW20102015	Water	11/02/2015 1030	11/03/2015 0920
280-76268-9MS	MW20102015MS	Water	11/02/2015 1030	11/03/2015 0920
280-76268-9MSD	MW20102015MSD	Water	11/02/2015 1030	11/03/2015 0920
280-76268-10	DMW20102015	Water	11/02/2015 1030	11/03/2015 0920

## EXECUTIVE SUMMARY - Detections

Client: Sundance Consulting, Inc

Job Number: 280-76268-3

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
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No Detections

## METHOD SUMMARY

Client: Sundance Consulting, Inc

Job Number: 280-76268-3

<b>Description</b>	<b>Lab Location</b>	<b>Method</b>	<b>Preparation Method</b>
<b>Matrix: Water</b>			
EDB, DBCP, and 1,2,3-TCP (GC)	TAL DEN	SW846 8011/DOD	
Microextraction	TAL DEN		SW846 8011

### Lab References:

TAL DEN = TestAmerica Denver

### Method References:

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



## METHOD / ANALYST SUMMARY

Client: Sundance Consulting, Inc

Job Number: 280-76268-3

<b>Method</b>	<b>Analyst</b>	<b>Analyst ID</b>
SW846 8011/DOD	Cokley, Cheyana D	CDC

## Analytical Data

Client: Sundance Consulting, Inc

Job Number: 280-76268-3

**Client Sample ID: FW31102015EQU002**

Lab Sample ID: 280-76268-3

Date Sampled: 11/02/2015 0930

Client Matrix: Water

Date Received: 11/03/2015 0920

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### 8011/DOD EDB, DBCP, and 1,2,3-TCP (GC)

Analysis Method: 8011/DOD	Analysis Batch: 280-302773	Instrument ID: SGC_E
Prep Method: 8011	Prep Batch: 280-302740	Initial Weight/Volume: 34.9 mL
Dilution: 1.0		Final Weight/Volume: 35 mL
Analysis Date: 11/05/2015 1931		Injection Volume: 3 uL
Prep Date: 11/05/2015 1418		Result Type: PRIMARY

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Ethylene Dibromide	0.014	U	0.0037	0.020

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dibromopropane	102		70 - 130

## Analytical Data

Client: Sundance Consulting, Inc

Job Number: 280-76268-3

**Client Sample ID: MW18D102015**

Lab Sample ID: 280-76268-5

Date Sampled: 11/02/2015 1230

Client Matrix: Water

Date Received: 11/03/2015 0920

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### 8011/DOD EDB, DBCP, and 1,2,3-TCP (GC)

Analysis Method: 8011/DOD	Analysis Batch: 280-302773	Instrument ID: SGC_E
Prep Method: 8011	Prep Batch: 280-302740	Initial Weight/Volume: 36.1 mL
Dilution: 1.0		Final Weight/Volume: 35 mL
Analysis Date: 11/05/2015 1950		Injection Volume: 3 uL
Prep Date: 11/05/2015 1418		Result Type: PRIMARY

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Ethylene Dibromide	0.014	U	0.0036	0.019

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dibromopropane	107		70 - 130

## Analytical Data

Client: Sundance Consulting, Inc

Job Number: 280-76268-3

**Client Sample ID: TMW35102015**

Lab Sample ID: 280-76268-6

Date Sampled: 11/02/2015 0955

Client Matrix: Water

Date Received: 11/03/2015 0920

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### 8011/DOD EDB, DBCP, and 1,2,3-TCP (GC)

Analysis Method: 8011/DOD	Analysis Batch: 280-302773	Instrument ID: SGC_E
Prep Method: 8011	Prep Batch: 280-302740	Initial Weight/Volume: 35.5 mL
Dilution: 1.0		Final Weight/Volume: 35 mL
Analysis Date: 11/05/2015 2009		Injection Volume: 3 uL
Prep Date: 11/05/2015 1418		Result Type: PRIMARY

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Ethylene Dibromide	0.014	U	0.0036	0.020
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dibromopropane	106		70 - 130	

## Analytical Data

Client: Sundance Consulting, Inc

Job Number: 280-76268-3

**Client Sample ID: MW22D102015**

Lab Sample ID: 280-76268-8

Date Sampled: 11/02/2015 1210

Client Matrix: Water

Date Received: 11/03/2015 0920

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### 8011/DOD EDB, DBCP, and 1,2,3-TCP (GC)

Analysis Method: 8011/DOD	Analysis Batch: 280-302773	Instrument ID: SGC_E
Prep Method: 8011	Prep Batch: 280-302740	Initial Weight/Volume: 35 mL
Dilution: 1.0		Final Weight/Volume: 35 mL
Analysis Date: 11/05/2015 2047		Injection Volume: 3 uL
Prep Date: 11/05/2015 1418		Result Type: PRIMARY

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Ethylene Dibromide	0.014	U	0.0037	0.020

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dibromopropane	109		70 - 130

## Analytical Data

Client: Sundance Consulting, Inc

Job Number: 280-76268-3

**Client Sample ID: MW20102015**

Lab Sample ID: 280-76268-9

Date Sampled: 11/02/2015 1030

Client Matrix: Water

Date Received: 11/03/2015 0920

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### 8011/DOD EDB, DBCP, and 1,2,3-TCP (GC)

Analysis Method: 8011/DOD	Analysis Batch: 280-302773	Instrument ID: SGC_E
Prep Method: 8011	Prep Batch: 280-302740	Initial Weight/Volume: 35.5 mL
Dilution: 1.0		Final Weight/Volume: 35 mL
Analysis Date: 11/05/2015 1755		Injection Volume: 3 uL
Prep Date: 11/05/2015 1418		Result Type: PRIMARY

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Ethylene Dibromide	0.014	U	0.0036	0.020

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dibromopropane	124		70 - 130

## Analytical Data

Client: Sundance Consulting, Inc

Job Number: 280-76268-3

**Client Sample ID: DMW20102015**

Lab Sample ID: 280-76268-10

Date Sampled: 11/02/2015 1030

Client Matrix: Water

Date Received: 11/03/2015 0920

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### 8011/DOD EDB, DBCP, and 1,2,3-TCP (GC)

Analysis Method: 8011/DOD	Analysis Batch: 280-302773	Instrument ID: SGC_E
Prep Method: 8011	Prep Batch: 280-302740	Initial Weight/Volume: 36.2 mL
Dilution: 1.0		Final Weight/Volume: 35 mL
Analysis Date: 11/05/2015 2106		Injection Volume: 3 uL
Prep Date: 11/05/2015 1418		Result Type: PRIMARY

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Ethylene Dibromide	0.014	U	0.0036	0.019

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dibromopropane	126		70 - 130

Client: Sundance Consulting, Inc

Job Number: 280-76268-3

**Surrogate Recovery Report**

**8011/DOD EDB, DBCP, and 1,2,3-TCP (GC)**

**Client Matrix: Water**

Lab Sample ID	Client Sample ID	12DBP1 %Rec
280-76268-3	FW31102015EQU002	102
280-76268-5	MW18D102015	107
280-76268-6	TMW35102015	106
280-76268-8	MW22D102015	109
280-76268-9	MW20102015	124
280-76268-10	DMW20102015	126
MB 280-302740/2-A		107
LCS 280-302740/3-A		107
LCSD 280-302740/4-A		107
280-76268-9 MS	MW20102015MS MS	121
280-76268-9 MSD	MW20102015MSD MSD	121

Surrogate	Acceptance Limits
12DBP = 1,2-Dibromopropane	70-130



## Quality Control Results

Client: Sundance Consulting, Inc

Job Number: 280-76268-3

**Method Blank - Batch: 280-302740**

**Method: 8011/DOD  
Preparation: 8011**

Lab Sample ID: MB 280-302740/2-A	Analysis Batch: 280-302773	Instrument ID: SGC_E
Client Matrix: Water	Prep Batch: 280-302740	Lab File ID: 004F0301.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 35 mL
Analysis Date: 11/05/2015 1638	Units: ug/L	Final Weight/Volume: 35 mL
Prep Date: 11/05/2015 1418		Injection Volume: 3 uL
Leach Date: N/A		Column ID: PRIMARY

Analyte	Result	Qual	DL	LOQ
Ethylene Dibromide	0.014	U	0.0037	0.020
Surrogate	% Rec		Acceptance Limits	
1,2-Dibromopropane	107		70 - 130	

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 280-302740**

**Method: 8011/DOD  
Preparation: 8011**

LCS Lab Sample ID: LCS 280-302740/3-A	Analysis Batch: 280-302773	Instrument ID: SGC_E
Client Matrix: Water	Prep Batch: 280-302740	Lab File ID: 005F0401.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 35 mL
Analysis Date: 11/05/2015 1657	Units: ug/L	Final Weight/Volume: 35 mL
Prep Date: 11/05/2015 1418		Injection Volume: 3 uL
Leach Date: N/A		Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 280-302740/4-A	Analysis Batch: 280-302773	Instrument ID: SGC_E
Client Matrix: Water	Prep Batch: 280-302740	Lab File ID: 006F0501.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 35 mL
Analysis Date: 11/05/2015 1716	Units: ug/L	Final Weight/Volume: 35 mL
Prep Date: 11/05/2015 1418		Injection Volume: 3 uL
Leach Date: N/A		Column ID: PRIMARY

Analyte	<u>% Rec.</u>		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Ethylene Dibromide	98	99	70 - 130	1	30		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
1,2-Dibromopropane	107	107			70 - 130		

## Quality Control Results

Client: Sundance Consulting, Inc

Job Number: 280-76268-3

**Laboratory Control/  
Laboratory Duplicate Data Report - Batch: 280-302740**

**Method: 8011/DOD  
Preparation: 8011**

LCS Lab Sample ID: LCS 280-302740/3-A      Units: ug/L  
 Client Matrix: Water  
 Dilution: 1.0  
 Analysis Date: 11/05/2015 1657  
 Prep Date: 11/05/2015 1418  
 Leach Date: N/A

LCSD Lab Sample ID: LCSD 280-302740/4-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Analysis Date: 11/05/2015 1716  
 Prep Date: 11/05/2015 1418  
 Leach Date: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Ethylene Dibromide	0.250	0.250	0.245	0.246

**Matrix Spike/  
Matrix Spike Duplicate Recovery Report - Batch: 280-302740**

**Method: 8011/DOD  
Preparation: 8011**

MS Lab Sample ID: 280-76268-9  
 Client Matrix: Water  
 Dilution: 1.0  
 Analysis Date: 11/05/2015 1814  
 Prep Date: 11/05/2015 1418  
 Leach Date: N/A

Analysis Batch: 280-302773  
 Prep Batch: 280-302740  
 Leach Batch: N/A

Instrument ID: SGC\_E  
 Lab File ID: 009F0801.D  
 Initial Weight/Volume: 35.1 mL  
 Final Weight/Volume: 35 mL  
 Injection Volume: 3 uL  
 Column ID: PRIMARY

MSD Lab Sample ID: 280-76268-9  
 Client Matrix: Water  
 Dilution: 1.0  
 Analysis Date: 11/05/2015 1833  
 Prep Date: 11/05/2015 1418  
 Leach Date: N/A

Analysis Batch: 280-302773  
 Prep Batch: 280-302740  
 Leach Batch: N/A

Instrument ID: SGC\_E  
 Lab File ID: 010F0901.D  
 Initial Weight/Volume: 35.6 mL  
 Final Weight/Volume: 35 mL  
 Injection Volume: 3 uL  
 Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Ethylene Dibromide	98	95	70 - 130	5	10		
Surrogate		MS % Rec	MSD % Rec			Acceptance Limits	
1,2-Dibromopropane		121	121			70 - 130	

# Quality Control Results

Client: Sundance Consulting, Inc

Job Number: 280-76268-3

**Matrix Spike/  
Matrix Spike Duplicate Recovery Report - Batch: 280-302740**

**Method: 8011/DOD  
Preparation: 8011**

MS Lab Sample ID: 280-76268-9                      Units: ug/L  
Client Matrix: Water  
Dilution: 1.0  
Analysis Date: 11/05/2015 1814  
Prep Date: 11/05/2015 1418  
Leach Date: N/A

MSD Lab Sample ID: 280-76268-9  
Client Matrix: Water  
Dilution: 1.0  
Analysis Date: 11/05/2015 1833  
Prep Date: 11/05/2015 1418  
Leach Date: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Ethylene Dibromide	0.014    U	0.249	0.246	0.244	0.233

## DATA REPORTING QUALIFIERS

Client: Sundance Consulting, Inc

Job Number: 280-76268-3

<b>Lab Section</b>	<b>Qualifier</b>	<b>Description</b>
GC Semi VOA	U	Undetected at the Limit of Detection.

## Quality Control Results

Client: Sundance Consulting, Inc

Job Number: 280-76268-3

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC Semi VOA</b>					
<b>Prep Batch: 280-302740</b>					
LCS 280-302740/3-A	Lab Control Sample	T	Water	8011	
LCSD 280-302740/4-A	Lab Control Sample Duplicate	T	Water	8011	
MB 280-302740/2-A	Method Blank	T	Water	8011	
280-76268-3	FW31102015EQU002	T	Water	8011	
280-76268-5	MW18D102015	T	Water	8011	
280-76268-6	TMW35102015	T	Water	8011	
280-76268-8	MW22D102015	T	Water	8011	
280-76268-9	MW20102015	T	Water	8011	
280-76268-9MS	Matrix Spike	T	Water	8011	
280-76268-9MSD	Matrix Spike Duplicate	T	Water	8011	
280-76268-10	DMW20102015	T	Water	8011	
<b>Analysis Batch:280-302773</b>					
LCS 280-302740/3-A	Lab Control Sample	T	Water	8011/DOD	280-302740
LCSD 280-302740/4-A	Lab Control Sample Duplicate	T	Water	8011/DOD	280-302740
MB 280-302740/2-A	Method Blank	T	Water	8011/DOD	280-302740
280-76268-3	FW31102015EQU002	T	Water	8011/DOD	280-302740
280-76268-5	MW18D102015	T	Water	8011/DOD	280-302740
280-76268-6	TMW35102015	T	Water	8011/DOD	280-302740
280-76268-8	MW22D102015	T	Water	8011/DOD	280-302740
280-76268-9	MW20102015	T	Water	8011/DOD	280-302740
280-76268-9MS	Matrix Spike	T	Water	8011/DOD	280-302740
280-76268-9MSD	Matrix Spike Duplicate	T	Water	8011/DOD	280-302740
280-76268-10	DMW20102015	T	Water	8011/DOD	280-302740

**Report Basis**

T = Total

## Quality Control Results

Client: Sundance Consulting, Inc

Job Number: 280-76268-3

### Laboratory Chronicle

**Lab ID: 280-76268-3**

**Client ID: FW31102015EQU002**

Sample Date/Time: 11/02/2015 09:30    Received Date/Time: 11/03/2015 09:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8011	280-76268-N-3-A		280-302773	280-302740	11/05/2015 14:18	1	TAL DEN	CDC
A:8011/DOD	280-76268-N-3-A		280-302773	280-302740	11/05/2015 19:31	1	TAL DEN	CDC

**Lab ID: 280-76268-5**

**Client ID: MW18D102015**

Sample Date/Time: 11/02/2015 12:30    Received Date/Time: 11/03/2015 09:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8011	280-76268-P-5-A		280-302773	280-302740	11/05/2015 14:18	1	TAL DEN	CDC
A:8011/DOD	280-76268-P-5-A		280-302773	280-302740	11/05/2015 19:50	1	TAL DEN	CDC

**Lab ID: 280-76268-6**

**Client ID: TMW35102015**

Sample Date/Time: 11/02/2015 09:55    Received Date/Time: 11/03/2015 09:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8011	280-76268-S-6-A		280-302773	280-302740	11/05/2015 14:18	1	TAL DEN	CDC
A:8011/DOD	280-76268-S-6-A		280-302773	280-302740	11/05/2015 20:09	1	TAL DEN	CDC

**Lab ID: 280-76268-8**

**Client ID: MW22D102015**

Sample Date/Time: 11/02/2015 12:10    Received Date/Time: 11/03/2015 09:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8011	280-76268-R-8-A		280-302773	280-302740	11/05/2015 14:18	1	TAL DEN	CDC
A:8011/DOD	280-76268-R-8-A		280-302773	280-302740	11/05/2015 20:47	1	TAL DEN	CDC

**Lab ID: 280-76268-9**

**Client ID: MW20102015**

Sample Date/Time: 11/02/2015 10:30    Received Date/Time: 11/03/2015 09:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8011	280-76268-AZ-9-A		280-302773	280-302740	11/05/2015 14:18	1	TAL DEN	CDC
A:8011/DOD	280-76268-AZ-9-A		280-302773	280-302740	11/05/2015 17:55	1	TAL DEN	CDC

**Lab ID: 280-76268-9**

**Client ID: MW20102015MS**

Sample Date/Time: 11/02/2015 10:30    Received Date/Time: 11/03/2015 09:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8011	280-76268-BA-9-A MS		280-302773	280-302740	11/05/2015 14:18	1	TAL DEN	CDC
A:8011/DOD	280-76268-BA-9-A MS		280-302773	280-302740	11/05/2015 18:14	1	TAL DEN	CDC

## Quality Control Results

Client: Sundance Consulting, Inc

Job Number: 280-76268-3

### Laboratory Chronicle

**Lab ID: 280-76268-9**

**Client ID: MW20102015MSD**

Sample Date/Time: 11/02/2015 10:30    Received Date/Time: 11/03/2015 09:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8011	280-76268-BB-9-A MSD		280-302773	280-302740	11/05/2015 14:18	1	TAL DEN	CDC
A:8011/DOD	280-76268-BB-9-A MSD		280-302773	280-302740	11/05/2015 18:33	1	TAL DEN	CDC

**Lab ID: 280-76268-10**

**Client ID: DMW20102015**

Sample Date/Time: 11/02/2015 10:30    Received Date/Time: 11/03/2015 09:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8011	280-76268-S-10-A		280-302773	280-302740	11/05/2015 14:18	1	TAL DEN	CDC
A:8011/DOD	280-76268-S-10-A		280-302773	280-302740	11/05/2015 21:06	1	TAL DEN	CDC

**Lab ID: MB**

**Client ID: N/A**

Sample Date/Time: N/A    Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8011	MB 280-302740/2-A		280-302773	280-302740	11/05/2015 14:18	1	TAL DEN	CDC
A:8011/DOD	MB 280-302740/2-A		280-302773	280-302740	11/05/2015 16:38	1	TAL DEN	CDC

**Lab ID: LCS**

**Client ID: N/A**

Sample Date/Time: N/A    Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8011	LCS 280-302740/3-A		280-302773	280-302740	11/05/2015 14:18	1	TAL DEN	CDC
A:8011/DOD	LCS 280-302740/3-A		280-302773	280-302740	11/05/2015 16:57	1	TAL DEN	CDC

**Lab ID: LCSD**

**Client ID: N/A**

Sample Date/Time: N/A    Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8011	LCSD 280-302740/4-A		280-302773	280-302740	11/05/2015 14:18	1	TAL DEN	CDC
A:8011/DOD	LCSD 280-302740/4-A		280-302773	280-302740	11/05/2015 17:16	1	TAL DEN	CDC

**Lab References:**

TAL DEN = TestAmerica Denver

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver

Job No.: 280-76268-3

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

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
504ICALWork_00100	11/13/15	10/26/15	P&T Methanol, Lot 0000099494	10 mL	504ICALStock_00068	100 uL	1,2,3-Trichloropropane	0.02 ug/mL
							1,2-Dibromo-3-Chloropropane	0.02 ug/mL
							Ethylene Dibromide	0.02 ug/mL
.504ICALStock_00068	11/13/15	10/26/15	P&T Methanol, Lot 0000099494	10 mL	504ICALStd_00021	10 uL	1,2,3-Trichloropropane	2 ug/mL
							1,2-Dibromo-3-Chloropropane	2 ug/mL
							Ethylene Dibromide	2 ug/mL
..504ICALStd_00021	11/13/15	SPEX, Lot C1121119012			(Purchased Reagent)		1,2,3-Trichloropropane	2000 ug/mL
							1,2-Dibromo-3-Chloropropane	2000 ug/mL
							Ethylene Dibromide	2000 ug/mL
504LCSTWork_00050	11/05/15	10/09/15	P&T Methanol, Lot 0000085233	10 mL	504LCSTStd_00025	12.5 uL	1,2,3-Trichloropropane	0.25 ug/mL
							1,2-Dibromo-3-Chloropropane	0.25 ug/mL
							Ethylene Dibromide	0.25 ug/mL
.504LCSTStd_00025	02/07/16	AccuStandard, Lot 213021004			(Purchased Reagent)		1,2,3-Trichloropropane	0.2 mg/mL
							1,2-Dibromo-3-Chloropropane	0.2 mg/mL
							Ethylene Dibromide	0.2 mg/mL
504SurrWork_00149	11/13/15	10/26/15	P&T Methanol, Lot 0000099494	10 mL	504SurrStock_00043	50 uL	1,2-Dibromopropane	0.1 ug/mL
.504SurrStock_00043	11/13/15	10/26/15	P&T Methanol, Lot 0000085233	10 mL	504SurrStd_00027	20 uL	1,2-Dibromopropane	20 ug/mL
..504SurrStd_00027	11/13/15	Ultra Scientific, Lot CH-3228			(Purchased Reagent)		1,2-Dibromopropane	10000 ug/mL





Reference Materials Producer  
Cert #2496.01

# SPEXertificate®

## Certificate of Reference Material



Chemical Testing  
Cert #2496.02

**Catalog Number:** 5041-AH **Lot No.** C1121119012

**Description:** Method 504.1 Analytes (High Level)

**Matrix:** Methanol (Purge & Trap Grade)

**Manufactured Date:** 11-19-2012

**Expiration Date:** 11-19-2015

This SPEXOrganica® Certified Reference Material, CRM, is intended primarily for use as a calibration standard or quality control standard for organic chromatography instrumentation such as GC, GC-MS, LC, and LC-MS. It can be employed in USEPA, ASTM and other methods relevant to the certified properties listed below.

**Certified Compounds:**

<u>Compound</u>	<u>CAS #</u>	<u>Labeled</u>	<u>Purity</u>	<u>Certified†</u>	<u>Uncertainty</u>
1,2,3-Trichloropropane	96-18-4	2000 µg/mL	99%	2010 µg/mL	± 72 µg/mL
1,2-Dibromo-3-chloropropane	96-12-8	2000 µg/mL	98%	2000 µg/mL	± 72 µg/mL
1,2-Dibromoethane	106-93-4	2000 µg/mL	99%	2000 µg/mL	± 72 µg/mL

**Final Solution Verification:**

Final solution integrity verified by Gas Chromatography/Mass Spectrometry. The mass spectrum of each compound was confirmed against the NIST mass spectral database.

† Certified concentration based on gravimetric weights and corrected for the purity of the compound(s) used to prepare the standard. Analytical balance calibration is verified daily with C1 weight set #23-190006 which is registered with Atlantic Scale, and traceable to NIST and NJ Division of Weights and Measures.

This CRM is guaranteed stable and accurate to within the uncertainty listed for the certified value. This includes uncertainty components due to preparation, homogeneity, short term and long term stability. During the stated period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution. For further information, contact the Sales Support Department at [crmsales@spexcsp.com](mailto:crmsales@spexcsp.com).

Date of Certification: 11-19-2012

Certifying Officer: 



# CERTIFICATE OF ANALYSIS

CATALOG NO: M-504.1-CSS  
DESCRIPTION: Method 504.1 - Calibration Stock Solution  
LOT: 213021004  
SOLVENT: Methanol

EXPIRATION: Feb 7, 2016  
DATE CERTIFIED: Feb 7, 2013  
SAMPLE SIZE: 1 mL  
STORAGE CONDITION: Ambient  
HAZARDS: HIGHLY FLAMMABLE

Refer to the MSDS for  
additional safety  
information

- Included on ISO/IEC 17025 Scope of Accreditation
- Included on ISO Guide 34 Scope of Accreditation

Component	Cas Number	Purity % (GC/FID)	Prepared Concentration <sup>1</sup> (µg/mL)	Certified Analyte Concentration <sup>2</sup> (µg/mL)
1,2-Dibromoethane	106-93-4	99.9	200.1	199.9
1,2-Dibromo-3-chloropropane	96-12-8	100	200.1	200.1
1,2,3-Trichloropropane	96-18-4	98.5	200.6	197.6



2325019

ID: 504LCSSStd\_00022

Exp: 02/07/16 Prep: MPS

3 analyte 2nd source std

23, 24, 25, 26.

3 Components

1. All weights are traceable through NIST, Test No. 822-276872-11

2. Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty associated with the gravimetric values reported on this certificate is ±0.24%. The CRM Uncertainty calculated for this product is ±5%. These values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

3. A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot# has had its expiration date extended and is identical to the same lot# without the suffix.

For use in routine laboratory analysis.

Certified by: R. Cooper  
Russ Cooper, QC Manager



# Certificate of Analysis

*504 surr std*

## 1,2-Dibromopropane Solution

Product Number: PPS-400

Page: 1 of 1

Lot Number: CH-3228

Lot Issue Date: 04-Oct-2011

Expiration Date: 30-Nov-2015

This Certified Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
1,2-dibromopropane	000078-75-1	03409TQ	10031 ± 50 µg/mL

Matrix: hexane

Storage: Store at Room Temperature (18-25° C)

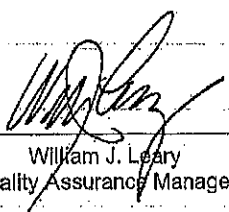
ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.



ISO 17025:2005  
Accredited  
AZLA  
Cert. No. 0851-01

ISO 9001:2008  
Registered  
TUV USA, Inc.  
Cert. No. 09-1008

250 Smith Street, North Kingstown, RI 02852 USA  
401-294-9400 Fax: 295-2330  
www.ultrascl.com

  
William J. Leary  
Quality Assurance Manager

# Certification Summary

Client: Sundance Consulting, Inc  
 Project/Site: Fort Wingate, New Mexico

TestAmerica Job ID: 280-76268-3

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Denver	A2LA	DoD ELAP		2907.01
TestAmerica Denver	A2LA	ISO/IEC 17025		2907.01
TestAmerica Denver	Alaska (UST)	State Program	10	UST-30
TestAmerica Denver	Arizona	State Program	9	AZ0713
TestAmerica Denver	Arkansas DEQ	State Program	6	88-0687
TestAmerica Denver	California	State Program	9	2513
TestAmerica Denver	Connecticut	State Program	1	PH-0686
TestAmerica Denver	Florida	NELAP	4	E87667
TestAmerica Denver	Georgia	State Program	4	N/A
TestAmerica Denver	Illinois	NELAP	5	200017
TestAmerica Denver	Iowa	State Program	7	370
TestAmerica Denver	Kansas	NELAP	7	E-10166
TestAmerica Denver	Louisiana	NELAP	6	02096
TestAmerica Denver	Maine	State Program	1	CO0002
TestAmerica Denver	Minnesota	NELAP	5	8-999-405
TestAmerica Denver	Nevada	State Program	9	CO0026
TestAmerica Denver	New Hampshire	NELAP	1	205310
TestAmerica Denver	New Jersey	NELAP	2	CO004
TestAmerica Denver	New York	NELAP	2	11964
TestAmerica Denver	North Carolina (WW/SW)	State Program	4	358
TestAmerica Denver	North Dakota	State Program	8	R-034
TestAmerica Denver	Oklahoma	State Program	6	8614
TestAmerica Denver	Oregon	NELAP	10	4025
TestAmerica Denver	Pennsylvania	NELAP	3	68-00664
TestAmerica Denver	South Carolina	State Program	4	72002001
TestAmerica Denver	Texas	NELAP	6	T104704183-15-11
TestAmerica Denver	USDA	Federal		P330-13-00202
TestAmerica Denver	Utah	NELAP	8	CO00026
TestAmerica Denver	Virginia	NELAP	3	460232
TestAmerica Denver	Washington	State Program	10	C583
TestAmerica Denver	West Virginia DEP	State Program	3	354
TestAmerica Denver	Wisconsin	State Program	5	999615430
TestAmerica Denver	Wyoming (UST)	A2LA	8	2907.01

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

# Method 8011

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**EDB, DBCP, and 1,2,3-TCP (GC) by  
Method 8011**

FORM II  
GC SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Denver

Job No.: 280-76268-3

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

Matrix: Water

Level: Low

GC Column (1): RTX 502.2 ID: 0.32 (mm)

Client Sample ID	Lab Sample ID	12DBP1 #
FW31102015EQU002	280-76268-3	102
MW18D102015	280-76268-5	107
TMW35102015	280-76268-6	106
MW22D102015	280-76268-8	109
MW20102015	280-76268-9	124
DMW20102015	280-76268-10	126
	MB 280-302740/2-A	107
	LCS 280-302740/3-A	107
	LCSD 280-302740/4-A	107
MW20102015MS MS	280-76268-9 MS	121
MW20102015MSD MSD	280-76268-9 MSD	121

12DBP = 1,2-Dibromopropane

QC LIMITS  
70-130

# Column to be used to flag recovery values

FORM II 8011/DOD

FORM III  
GC SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-76268-3

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

Matrix: Water Level: Low Lab File ID: 005F0401.D

Lab ID: LCS 280-302740/3-A Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Ethylene Dibromide	0.250	0.245	98	70-130	

# Column to be used to flag recovery and RPD values

FORM III  
GC SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-76268-3

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

Matrix: Water Level: Low Lab File ID: 006F0501.D

Lab ID: LCSD 280-302740/4-A Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Ethylene Dibromide	0.250	0.246	99	1	30	70-130	

# Column to be used to flag recovery and RPD values



FORM III  
GC SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-76268-3

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

Matrix: Water Level: Low Lab File ID: 009F0801.D

Lab ID: 280-76268-9 MS Client ID: MW20102015MS MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Ethylene Dibromide	0.249	0.014 U	0.244	98	70-130	

# Column to be used to flag recovery and RPD values

FORM III  
GC SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-76268-3

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

Matrix: Water Level: Low Lab File ID: 010F0901.D

Lab ID: 280-76268-9 MSD Client ID: MW20102015MSD MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Ethylene Dibromide	0.246	0.233	95	5	10	70-130	

# Column to be used to flag recovery and RPD values

FORM IV  
GC SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-76268-3  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: MB 280-302740/2-A  
 Matrix: Water Date Extracted: 11/05/2015 14:18  
 Lab File ID: (1) 004F0301.D Lab File ID: (2) 004F0301.D  
 Date Analyzed: (1) 11/05/2015 16:38 Date Analyzed: (2) 11/05/2015 16:38  
 Instrument ID: (1) SGC\_E Instrument ID: (2) SGC\_E  
 GC Column: (1) RTX 502.2 ID: 0.32 (mm) GC Column: (2) RTX-VRX ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE	
		ANALYZED 1	ANALYZED 2
	LCS 280-302740/3-A	11/05/2015 16:57	11/05/2015 16:57
	LCSD 280-302740/4-A	11/05/2015 17:16	11/05/2015 17:16
MW20102015	280-76268-9	11/05/2015 17:55	11/05/2015 17:55
MW20102015MS MS	280-76268-9 MS	11/05/2015 18:14	11/05/2015 18:14
MW20102015MSD MSD	280-76268-9 MSD	11/05/2015 18:33	11/05/2015 18:33
FW31102015EQU002	280-76268-3	11/05/2015 19:31	11/05/2015 19:31
MW18D102015	280-76268-5	11/05/2015 19:50	11/05/2015 19:50
TMW35102015	280-76268-6	11/05/2015 20:09	11/05/2015 20:09
MW22D102015	280-76268-8	11/05/2015 20:47	11/05/2015 20:47
DMW20102015	280-76268-10	11/05/2015 21:06	11/05/2015 21:06

FORM VIII  
GC SEMI VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Denver Job No.: 280-76268-3  
 SDG No.: \_\_\_\_\_  
 Sample No.: STD4RT 280-301315/7 Date Analyzed: 10/27/2015 16:52  
 Instrument ID: SGC\_E GC Column: RTX 502.2 ID: 0.32 (mm)  
 Lab File ID (Standard): 006F0601.D Heated Purge: (Y/N) N  
 Calibration ID: 24205

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSS IS GIVEN BELOW:

				12DBP		
				RT #		
INITIAL CALIBRATION SURROGATE				4.37		
UPPER LIMIT						
LOWER LIMIT						
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
STD4RT 280-301315/7 ICRT		10/27/2015 16:52	006F0601.D	4.37		
ICV 280-301315/11		10/27/2015 18:08	010F1001.D	4.37		

# Column used to flag values outside QC limits

FORM VIII  
GC SEMI VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Denver Job No.: 280-76268-3  
 SDG No.: \_\_\_\_\_  
 Sample No.: STD4RT 280-301315/7 Date Analyzed: 10/27/2015 16:52  
 Instrument ID: SGC\_E GC Column: RTX-VRX ID: 0.32 (mm)  
 Lab File ID (Standard): 006F0601.D Heated Purge: (Y/N) N  
 Calibration ID: 24206

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSS IS GIVEN BELOW:

				12DBP		
				RT #		
INITIAL CALIBRATION SURROGATE				3.86		
UPPER LIMIT						
LOWER LIMIT						
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
STD4RT 280-301315/7 ICRT		10/27/2015 16:52	006F0601.D	3.86		
ICV 280-301315/11		10/27/2015 18:08	010F1001.D	3.86		

# Column used to flag values outside QC limits

FORM VIII  
GC SEMI VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Denver Job No.: 280-76268-3  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVRT 280-302773/5 Date Analyzed: 11/05/2015 16:18  
 Instrument ID: SGC\_E GC Column: RTX 502.2 ID: 0.32 (mm)  
 Lab File ID (Standard): 003F0201.D Heated Purge: (Y/N) N  
 Calibration ID: 24205

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSS IS GIVEN BELOW:

				12DBP		
				RT #		
CONTINUING CALIBRATION SURROGATE				4.36		
UPPER LIMIT						
LOWER LIMIT						
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCVRT 280-302773/5		11/05/2015 16:18	003F0201.D	4.36		
MB 280-302740/2-A		11/05/2015 16:38	004F0301.D	4.36		
LCS 280-302740/3-A		11/05/2015 16:57	005F0401.D	4.36		
LCSD 280-302740/4-A		11/05/2015 17:16	006F0501.D	4.36		
280-76268-9	MW20102015	11/05/2015 17:55	008F0701.D	4.36		
280-76268-9 MS	MW20102015MS MS	11/05/2015 18:14	009F0801.D	4.36		
280-76268-9 MSD	MW20102015MSD MSD	11/05/2015 18:33	010F0901.D	4.36		
280-76268-3	FW31102015EQU002	11/05/2015 19:31	013F1201.D	4.36		
280-76268-5	MW18D102015	11/05/2015 19:50	014F1301.D	4.37		
280-76268-6	TMW35102015	11/05/2015 20:09	015F1401.D	4.37		
CCV 280-302773/18		11/05/2015 20:28	016F1501.D	4.37		
280-76268-8	MW22D102015	11/05/2015 20:47	017F1601.D	4.37		
280-76268-10	DMW20102015	11/05/2015 21:06	018F1701.D	4.37		
CCV 280-302773/28		11/05/2015 23:37	026F2501.D	4.37		

# Column used to flag values outside QC limits

FORM VIII  
GC SEMI VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Denver Job No.: 280-76268-3  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVRT 280-302773/5 Date Analyzed: 11/05/2015 16:18  
 Instrument ID: SGC\_E GC Column: RTX-VRX ID: 0.32 (mm)  
 Lab File ID (Standard): 003F0201.D Heated Purge: (Y/N) N  
 Calibration ID: 24206

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSS IS GIVEN BELOW:

				12DBP		
				RT #		
CONTINUING CALIBRATION SURROGATE				3.85		
UPPER LIMIT						
LOWER LIMIT						
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCVRT 280-302773/5		11/05/2015 16:18	003F0201.D	3.85		
CCV 280-302773/18		11/05/2015 20:28	016F1501.D	3.86		
CCV 280-302773/28		11/05/2015 23:37	026F2501.D	3.86		

# Column used to flag values outside QC limits

FORM X  
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-76268-3  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW20102015MS MS Lab Sample ID: 280-76268-9 MS  
 Instrument ID (1): SGC\_E Instrument ID (2): SGC\_E  
 Date Analyzed (1): 11/05/2015 18:14 Date Analyzed (2): 11/05/2015 18:14  
 GC Column (1): RTX 502.2 ID: 0.32 (mm) GC Column (2): RTX-VRX ID: 0.32 (mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Ethylene Dibromide	1		3.77	3.74	3.80	0.244		1.0
	2		3.24	3.21	3.27	0.247		



FORM X  
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-76268-3  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW20102015MSD MSD Lab Sample ID: 280-76268-9 MSD  
 Instrument ID (1): SGC\_E Instrument ID (2): SGC\_E  
 Date Analyzed (1): 11/05/2015 18:33 Date Analyzed (2): 11/05/2015 18:33  
 GC Column (1): RTX 502.2 ID: 0.32 (mm) GC Column (2): RTX-VRX ID: 0.32 (mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Ethylene Dibromide	1		3.77	3.74	3.80	0.233		2.1
	2		3.24	3.21	3.27	0.238		

FORM X  
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-76268-3  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 280-302740/3-A  
 Instrument ID (1): SGC\_E Instrument ID (2): SGC\_E  
 Date Analyzed (1): 11/05/2015 16:57 Date Analyzed (2): 11/05/2015 16:57  
 GC Column (1): RTX 502.2 ID: 0.32 (mm) GC Column (2): RTX-VRX ID: 0.32 (mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Ethylene Dibromide	1		3.77	3.74	3.80	0.245		0.6
	2		3.24	3.21	3.27	0.243		

FORM X  
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-76268-3  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCSD 280-302740/4-A  
 Instrument ID (1): SGC\_E Instrument ID (2): SGC\_E  
 Date Analyzed (1): 11/05/2015 17:16 Date Analyzed (2): 11/05/2015 17:16  
 GC Column (1): RTX 502.2 ID: 0.32 (mm) GC Column (2): RTX-VRX ID: 0.32 (mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Ethylene Dibromide	1		3.77	3.74	3.80	0.246		0.6
	2		3.24	3.21	3.27	0.245		

FORM I  
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-76268-3  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: FW31102015EQU002 Lab Sample ID: 280-76268-3  
 Matrix: Water Lab File ID: 013F1201.D  
 Analysis Method: 8011/DOD Date Collected: 11/02/2015 09:30  
 Extraction Method: 8011 Date Extracted: 11/05/2015 14:18  
 Sample wt/vol: 34.9 (mL) Date Analyzed: 11/05/2015 19:31  
 Con. Extract Vol.: 35 (mL) Dilution Factor: 1  
 Injection Volume: 3 (uL) GC Column: RTX 502.2 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 302773 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
106-93-4	Ethylene Dibromide	0.014	U	0.020	0.014	0.0037

CAS NO.	SURROGATE	%REC	Q	LIMITS
78-75-1	1,2-Dibromopropane	102		70-130

TestAmerica Denver  
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151105-41177.b\013F1201.D  
 Lims ID: 280-76268-N-3-A Lab Sample ID: 280-76268-3  
 Client ID: FW31102015EQU002  
 Sample Type: Client  
 Inject. Date: 05-Nov-2015 19:31:07 ALS Bottle#: 13 Worklist Smp#: 15  
 Injection Vol: 3.0 ul Dil. Factor: 1.0000  
 Sample Info: 280-76268-N-3  
 Operator ID: CDC Instrument ID: SGC\_E  
 Method: \\ChromNA\Denver\ChromData\SGC\_E\20151105-41177.b\504.1.m  
 Limit Group: GCSV - 8011\_504  
 Method Label: 504.1/8011 EDB+TCP+DBCP in water/soil by DV-GC-0019  
 Last Update: 09-Nov-2015 17:47:00 Calib Date: 27-Oct-2015 17:49:31  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\009F0901.D  
 Column 1 : Restex Rtx-502.2 ( 0.32 mm) Det: GC ECD1A  
 Column 2 : Restek Rtx-VRX ( 0.32 mm) Det: GC ECD2B  
 Process Host: XAWRK048

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	----------------	-------

1 Ethylene Dibromide						
1		3.773			ND	
2		3.243				
\$ 2 1,2-Dibromopropane						
1	4.363	4.363	0.000	6062	0.1024	
2	3.857	3.853	0.004	2077	0.1136	
					RPD = 10.33	

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151105-41177.b\013F1201.D

Injection Date: 05-Nov-2015 19:31:07

Instrument ID: SGC\_E

Operator ID: CDC

Lims ID: 280-76268-N-3-A

Lab Sample ID: 280-76268-3

Worklist Smp#: 15

Client ID: FW31102015EQU002

Injection Vol: 3.0 ul

Dil. Factor: 1.0000

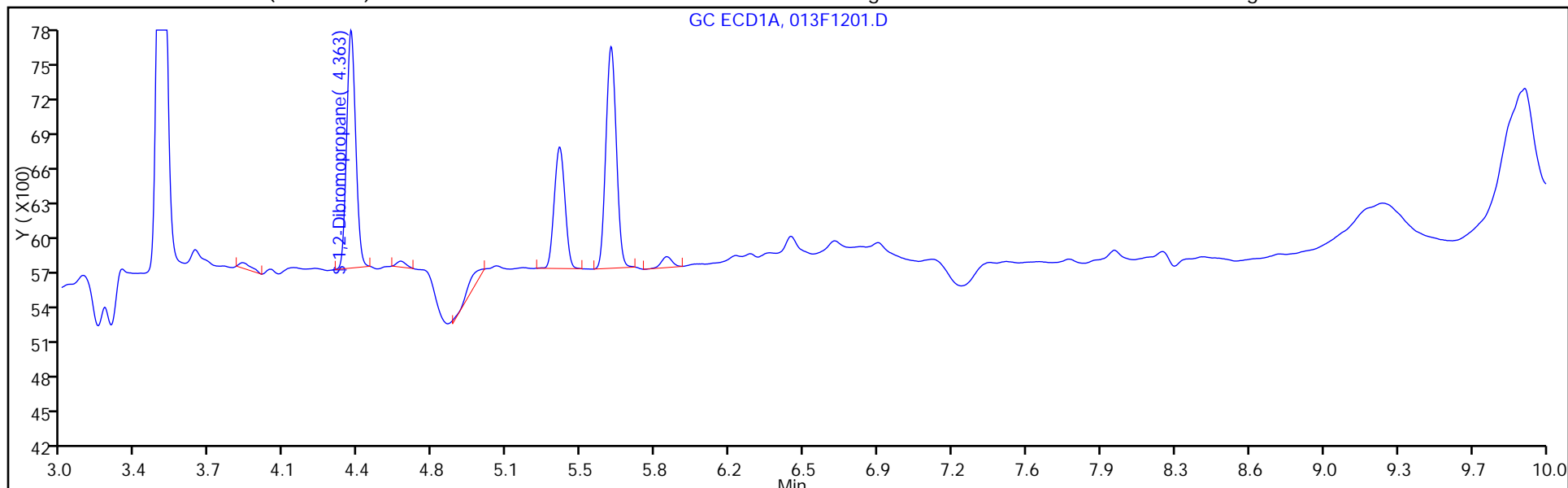
ALS Bottle#: 13

Method: 504.1

Limit Group: GCSV - 8011\_504

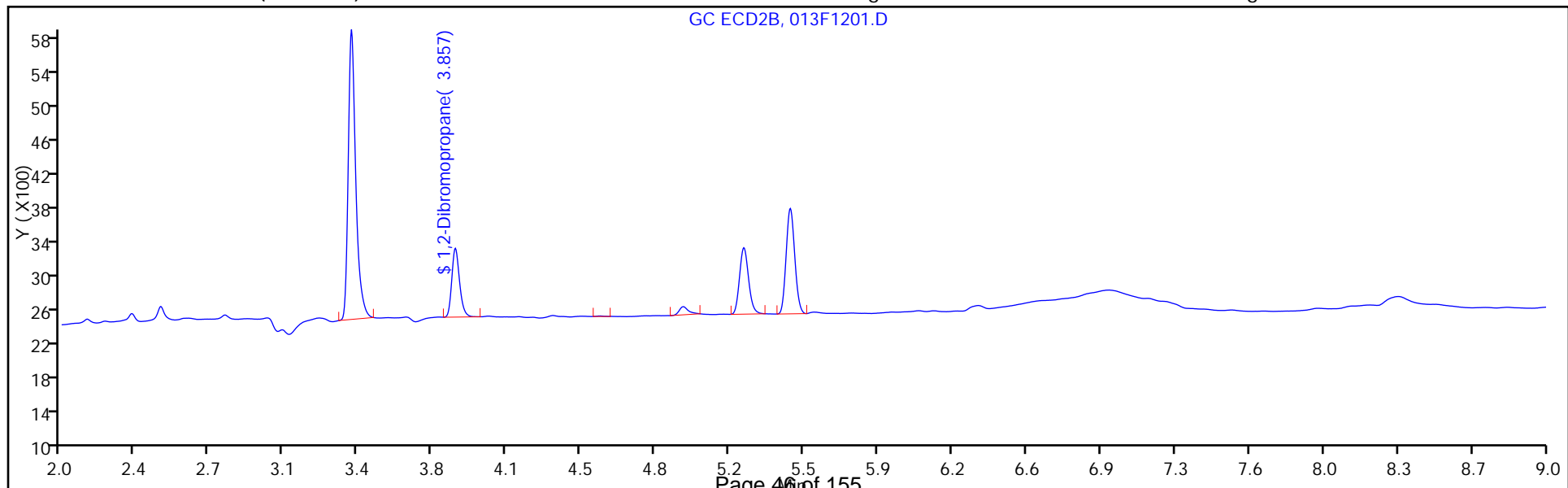
Column: Restex Rtx-502.2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Column: Restek Rtx-VRX (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



FORM I  
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-76268-3  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW18D102015 Lab Sample ID: 280-76268-5  
 Matrix: Water Lab File ID: 014F1301.D  
 Analysis Method: 8011/DOD Date Collected: 11/02/2015 12:30  
 Extraction Method: 8011 Date Extracted: 11/05/2015 14:18  
 Sample wt/vol: 36.1 (mL) Date Analyzed: 11/05/2015 19:50  
 Con. Extract Vol.: 35 (mL) Dilution Factor: 1  
 Injection Volume: 3 (uL) GC Column: RTX 502.2 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 302773 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
106-93-4	Ethylene Dibromide	0.014	U	0.019	0.014	0.0036

CAS NO.	SURROGATE	%REC	Q	LIMITS
78-75-1	1,2-Dibromopropane	107		70-130

TestAmerica Denver  
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151105-41177.b\014F1301.D  
 Lims ID: 280-76268-P-5-A Lab Sample ID: 280-76268-5  
 Client ID: MW18D102015  
 Sample Type: Client  
 Inject. Date: 05-Nov-2015 19:50:10 ALS Bottle#: 14 Worklist Smp#: 16  
 Injection Vol: 3.0 ul Dil. Factor: 1.0000  
 Sample Info: 280-76268-P-5  
 Operator ID: CDC Instrument ID: SGC\_E  
 Method: \\ChromNA\Denver\ChromData\SGC\_E\20151105-41177.b\504.1.m  
 Limit Group: GCSV - 8011\_504  
 Method Label: 504.1/8011 EDB+TCP+DBCP in water/soil by DV-GC-0019  
 Last Update: 09-Nov-2015 17:47:00 Calib Date: 27-Oct-2015 17:49:31  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\009F0901.D  
 Column 1 : Restex Rtx-502.2 ( 0.32 mm) Det: GC ECD1A  
 Column 2 : Restek Rtx-VRX ( 0.32 mm) Det: GC ECD2B  
 Process Host: XAWRK048

First Level Reviewer: cokleyc Date: 09-Nov-2015 17:43:44

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
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1 Ethylene Dibromide						
1		3.773			ND	
2		3.243				
\$ 2 1,2-Dibromopropane						
1	4.367	4.363	0.004	6337	0.1071	
2	3.857	3.853	0.004	1962	0.1073	
					RPD = 0.21	



TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151105-41177.b\014F1301.D

Injection Date: 05-Nov-2015 19:50:10

Instrument ID: SGC\_E

Operator ID: CDC

Lims ID: 280-76268-P-5-A

Lab Sample ID: 280-76268-5

Worklist Smp#: 16

Client ID: MW18D102015

Injection Vol: 3.0 ul

Dil. Factor: 1.0000

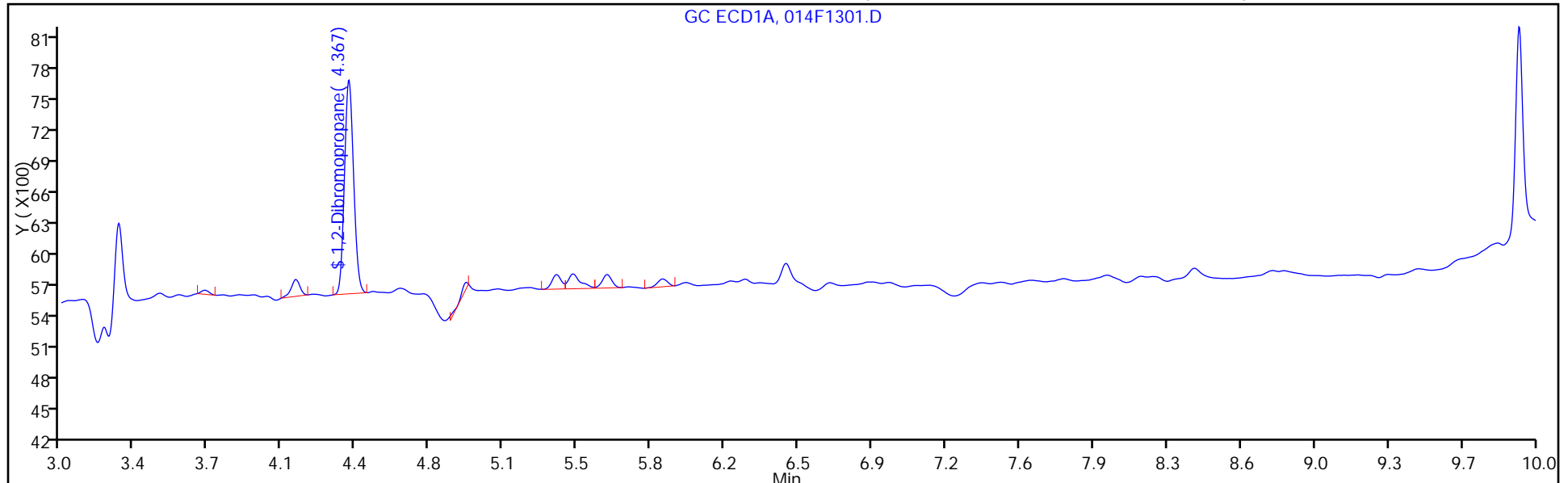
ALS Bottle#: 14

Method: 504.1

Limit Group: GCSV - 8011\_504

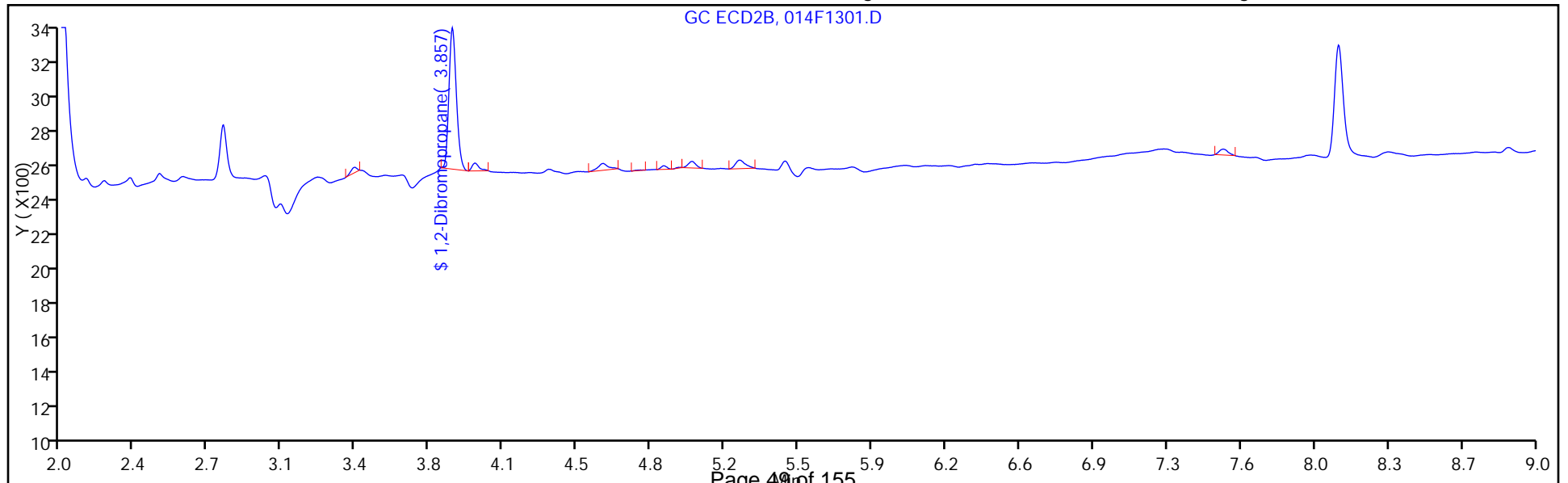
Column: Restex Rtx-502.2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Column: Restek Rtx-VRX (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



FORM I  
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-76268-3  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: TMW35102015 Lab Sample ID: 280-76268-6  
 Matrix: Water Lab File ID: 015F1401.D  
 Analysis Method: 8011/DOD Date Collected: 11/02/2015 09:55  
 Extraction Method: 8011 Date Extracted: 11/05/2015 14:18  
 Sample wt/vol: 35.5 (mL) Date Analyzed: 11/05/2015 20:09  
 Con. Extract Vol.: 35 (mL) Dilution Factor: 1  
 Injection Volume: 3 (uL) GC Column: RTX 502.2 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 302773 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
106-93-4	Ethylene Dibromide	0.014	U	0.020	0.014	0.0036

CAS NO.	SURROGATE	%REC	Q	LIMITS
78-75-1	1,2-Dibromopropane	106		70-130

TestAmerica Denver  
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151105-41177.b\015F1401.D  
 Lims ID: 280-76268-S-6-A Lab Sample ID: 280-76268-6  
 Client ID: TMW35102015  
 Sample Type: Client  
 Inject. Date: 05-Nov-2015 20:09:09 ALS Bottle#: 15 Worklist Smp#: 17  
 Injection Vol: 3.0 ul Dil. Factor: 1.0000  
 Sample Info: 280-76268-S-6  
 Operator ID: CDC Instrument ID: SGC\_E  
 Method: \\ChromNA\Denver\ChromData\SGC\_E\20151105-41177.b\504.1.m  
 Limit Group: GCSV - 8011\_504  
 Method Label: 504.1/8011 EDB+TCP+DBCP in water/soil by DV-GC-0019  
 Last Update: 09-Nov-2015 17:47:00 Calib Date: 27-Oct-2015 17:49:31  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\009F0901.D  
 Column 1 : Restex Rtx-502.2 ( 0.32 mm) Det: GC ECD1A  
 Column 2 : Restek Rtx-VRX ( 0.32 mm) Det: GC ECD2B  
 Process Host: XAWRK048

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	----------------	-------

1 Ethylene Dibromide						
1		3.773			ND	
2		3.243				
\$ 2 1,2-Dibromopropane						
1	4.367	4.363	0.004	6279	0.1061	
2	3.857	3.853	0.004	2011	0.1100	
					RPD = 3.60	

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151105-41177.b\015F1401.D

Injection Date: 05-Nov-2015 20:09:09

Instrument ID: SGC\_E

Operator ID: CDC

Lims ID: 280-76268-S-6-A

Lab Sample ID: 280-76268-6

Worklist Smp#: 17

Client ID: TMW35102015

Injection Vol: 3.0 ul

Dil. Factor: 1.0000

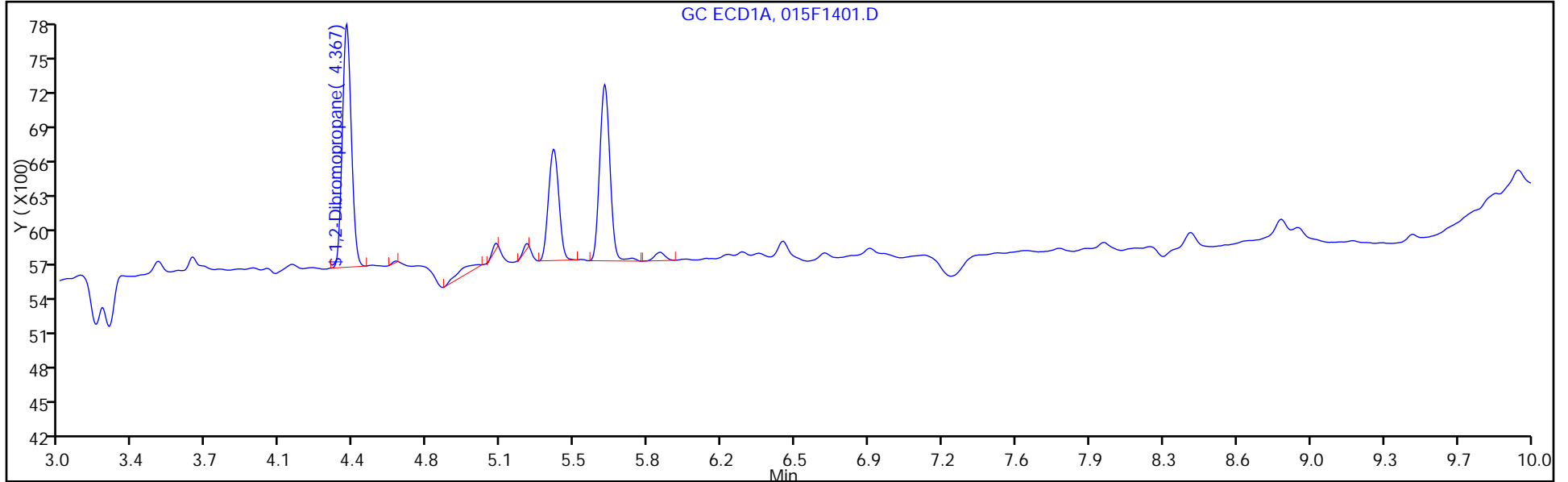
ALS Bottle#: 15

Method: 504.1

Limit Group: GCSV - 8011\_504

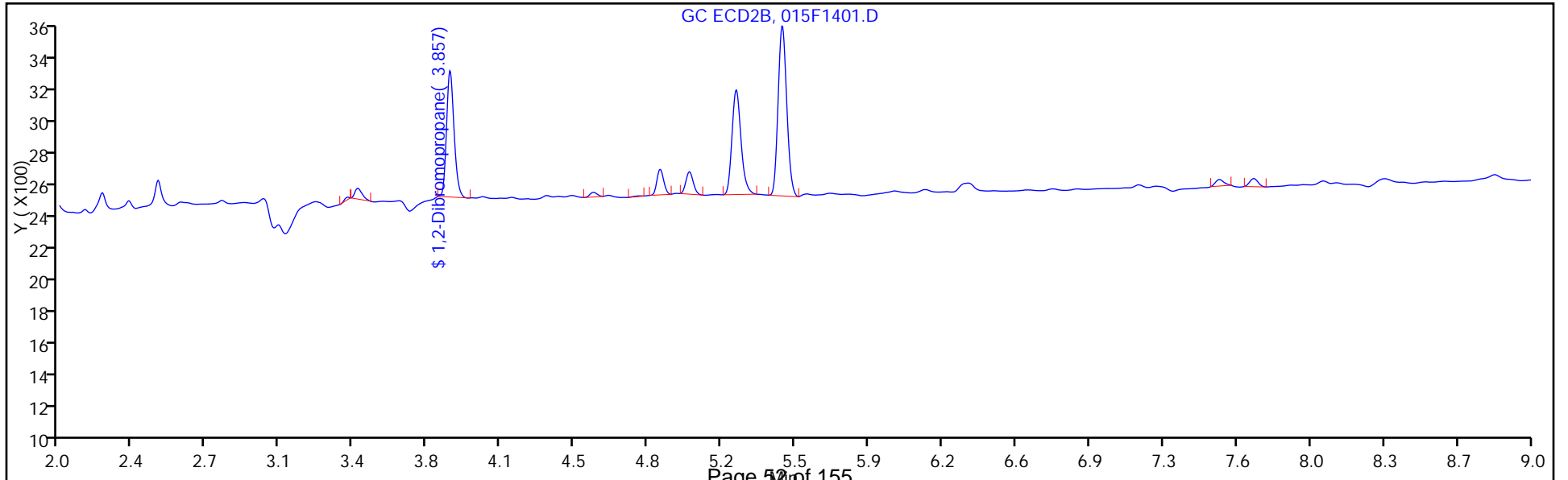
Column: Restex Rtx-502.2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Column: Restek Rtx-VRX (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



FORM I  
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-76268-3  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW22D102015 Lab Sample ID: 280-76268-8  
 Matrix: Water Lab File ID: 017F1601.D  
 Analysis Method: 8011/DOD Date Collected: 11/02/2015 12:10  
 Extraction Method: 8011 Date Extracted: 11/05/2015 14:18  
 Sample wt/vol: 35 (mL) Date Analyzed: 11/05/2015 20:47  
 Con. Extract Vol.: 35 (mL) Dilution Factor: 1  
 Injection Volume: 3 (uL) GC Column: RTX 502.2 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 302773 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
106-93-4	Ethylene Dibromide	0.014	U	0.020	0.014	0.0037

CAS NO.	SURROGATE	%REC	Q	LIMITS
78-75-1	1,2-Dibromopropane	109		70-130

TestAmerica Denver  
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151105-41177.b\017F1601.D  
 Lims ID: 280-76268-R-8-A Lab Sample ID: 280-76268-8  
 Client ID: MW22D102015  
 Sample Type: Client  
 Inject. Date: 05-Nov-2015 20:47:06 ALS Bottle#: 17 Worklist Smp#: 19  
 Injection Vol: 3.0 ul Dil. Factor: 1.0000  
 Sample Info: 280-76268-R-8  
 Operator ID: CDC Instrument ID: SGC\_E  
 Method: \\ChromNA\Denver\ChromData\SGC\_E\20151105-41177.b\504.1.m  
 Limit Group: GCSV - 8011\_504  
 Method Label: 504.1/8011 EDB+TCP+DBCP in water/soil by DV-GC-0019  
 Last Update: 09-Nov-2015 17:48:38 Calib Date: 27-Oct-2015 17:49:31  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\009F0901.D  
 Column 1 : Restex Rtx-502.2 ( 0.32 mm) Det: GC ECD1A  
 Column 2 : Restek Rtx-VRX ( 0.32 mm) Det: GC ECD2B  
 Process Host: XAWRK048

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	----------------	-------

1 Ethylene Dibromide						
1		3.773			ND	
2		3.243				
\$ 2 1,2-Dibromopropane						
1	4.367	4.363	0.004	6434	0.1087	
2	3.860	3.853	0.007	2069	0.1132	
					RPD = 4.00	

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151105-41177.b\017F1601.D

Injection Date: 05-Nov-2015 20:47:06

Instrument ID: SGC\_E

Operator ID: CDC

Lims ID: 280-76268-R-8-A

Lab Sample ID: 280-76268-8

Worklist Smp#: 19

Client ID: MW22D102015

Injection Vol: 3.0 ul

Dil. Factor: 1.0000

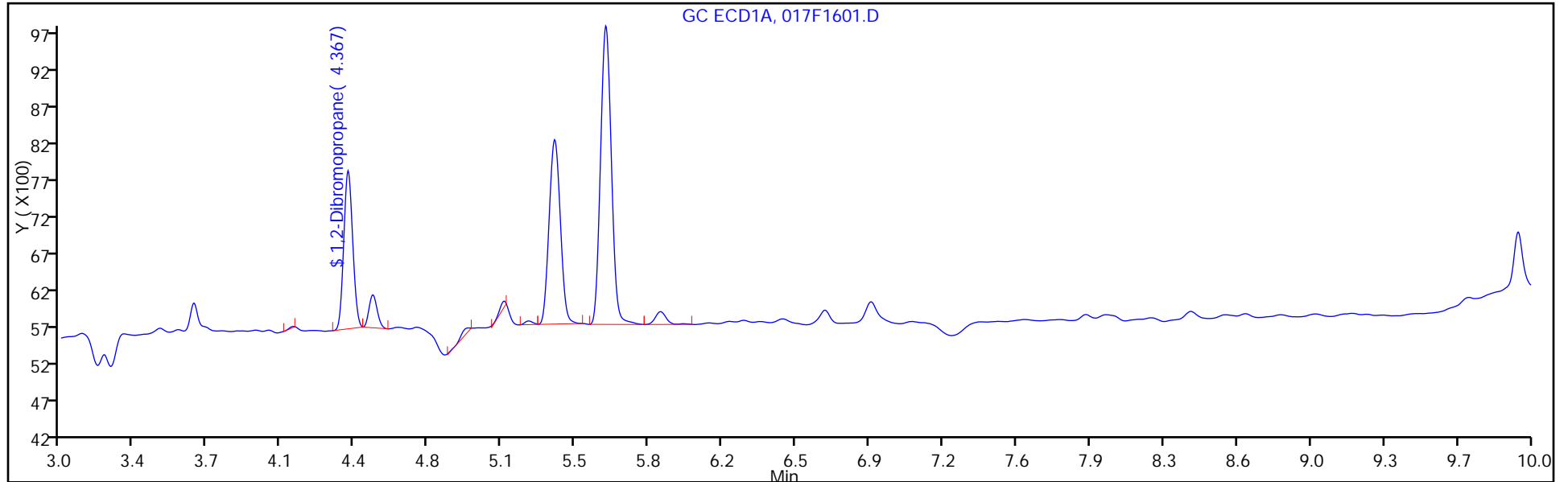
ALS Bottle#: 17

Method: 504.1

Limit Group: GCSV - 8011\_504

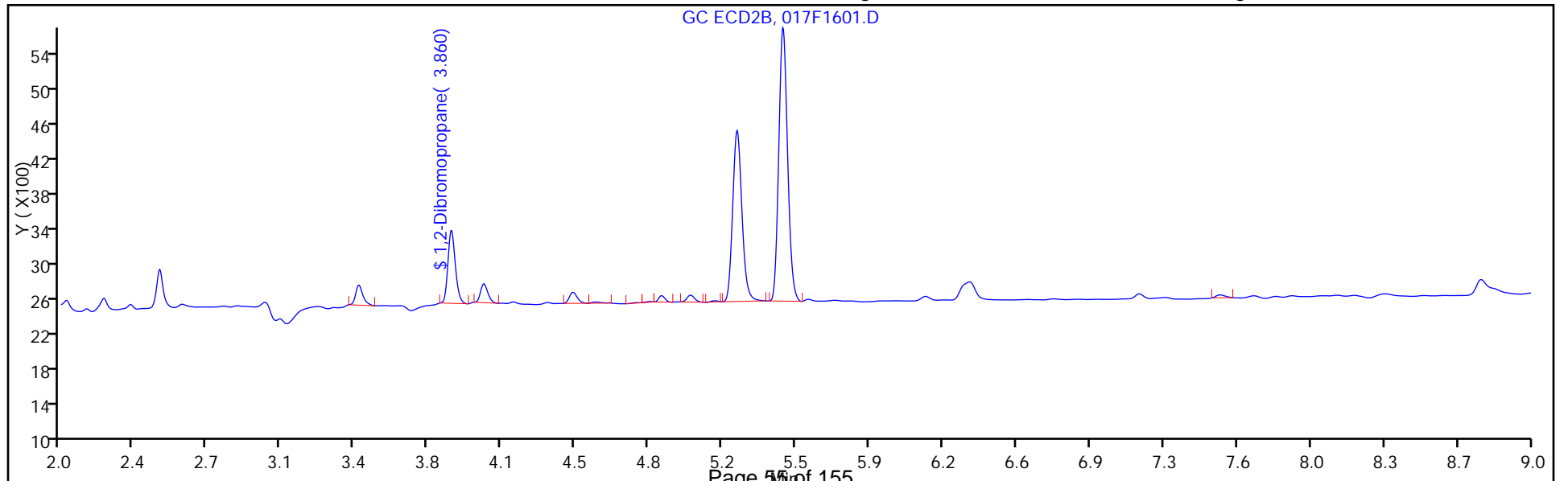
Column: Restex Rtx-502.2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Column: Restek Rtx-VRX (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



FORM I  
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-76268-3  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW20102015 Lab Sample ID: 280-76268-9  
 Matrix: Water Lab File ID: 008F0701.D  
 Analysis Method: 8011/DOD Date Collected: 11/02/2015 10:30  
 Extraction Method: 8011 Date Extracted: 11/05/2015 14:18  
 Sample wt/vol: 35.5 (mL) Date Analyzed: 11/05/2015 17:55  
 Con. Extract Vol.: 35 (mL) Dilution Factor: 1  
 Injection Volume: 3 (uL) GC Column: RTX 502.2 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 302773 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
106-93-4	Ethylene Dibromide	0.014	U	0.020	0.014	0.0036

CAS NO.	SURROGATE	%REC	Q	LIMITS
78-75-1	1,2-Dibromopropane	124		70-130



TestAmerica Denver  
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151105-41177.b\008F0701.D  
 Lims ID: 280-76268-AZ-9-A Lab Sample ID: 280-76268-9  
 Client ID: MW20102015  
 Sample Type: Client  
 Inject. Date: 05-Nov-2015 17:55:14 ALS Bottle#: 8 Worklist Smp#: 10  
 Injection Vol: 3.0 ul Dil. Factor: 1.0000  
 Sample Info: 280-76268-AZ-9  
 Operator ID: CDC Instrument ID: SGC\_E  
 Method: \\ChromNA\Denver\ChromData\SGC\_E\20151105-41177.b\504.1.m  
 Limit Group: GCSV - 8011\_504  
 Method Label: 504.1/8011 EDB+TCP+DBCP in water/soil by DV-GC-0019  
 Last Update: 09-Nov-2015 17:47:00 Calib Date: 27-Oct-2015 17:49:31  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\009F0901.D  
 Column 1 : Restex Rtx-502.2 ( 0.32 mm) Det: GC ECD1A  
 Column 2 : Restek Rtx-VRX ( 0.32 mm) Det: GC ECD2B  
 Process Host: XAWRK048

First Level Reviewer: cokleyc Date: 05-Nov-2015 18:26:52

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	----------------	-------

1 Ethylene Dibromide						
1		3.773			ND	
2		3.243				
\$ 2 1,2-Dibromopropane M						
1	4.363	4.363	0.000	7357	0.1243	
2	3.853	3.853	0.000	1393	0.0762	M
RPD = 48.01						
3 1,2,3-Trichloropropane						
1		5.433			ND	
2		4.597				
4 1,2-Dibromo-3-Chloropropane						
1		8.700			ND	
2		7.317				

**QC Flag Legend**

Review Flags

M - Manually Integrated

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151105-41177.b\008F0701.D

Injection Date: 05-Nov-2015 17:55:14

Instrument ID: SGC\_E

Operator ID: CDC

Lims ID: 280-76268-AZ-9-A

Lab Sample ID: 280-76268-9

Worklist Smp#: 10

Client ID: MW20102015

Injection Vol: 3.0 ul

Dil. Factor: 1.0000

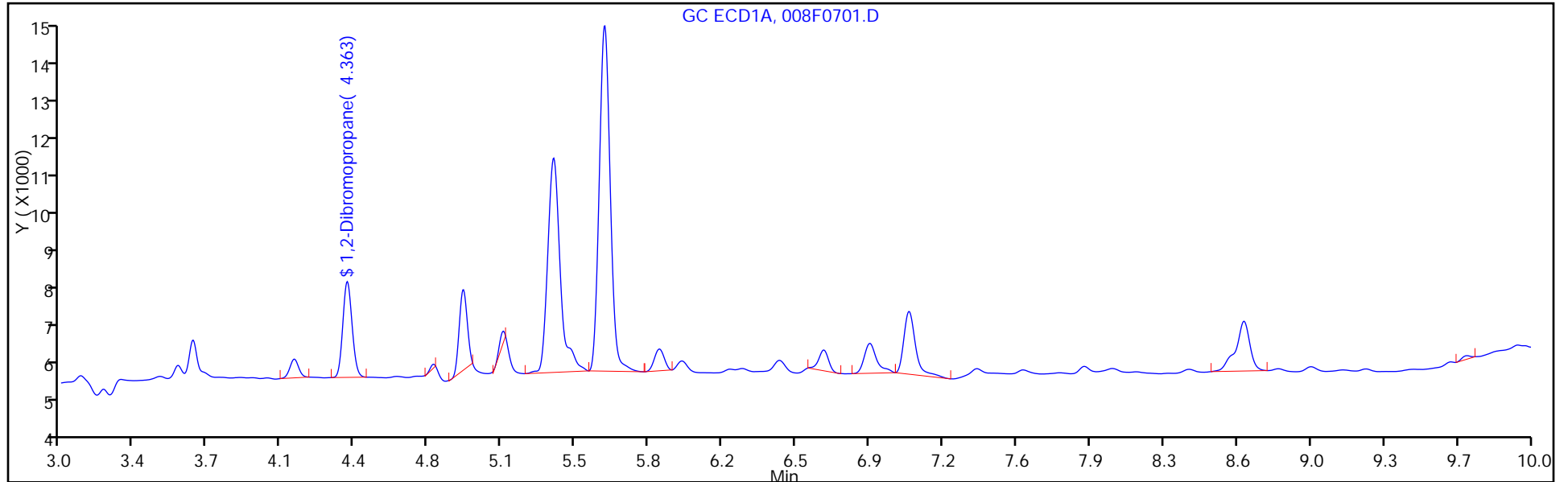
ALS Bottle#: 8

Method: 504.1

Limit Group: GCSV - 8011\_504

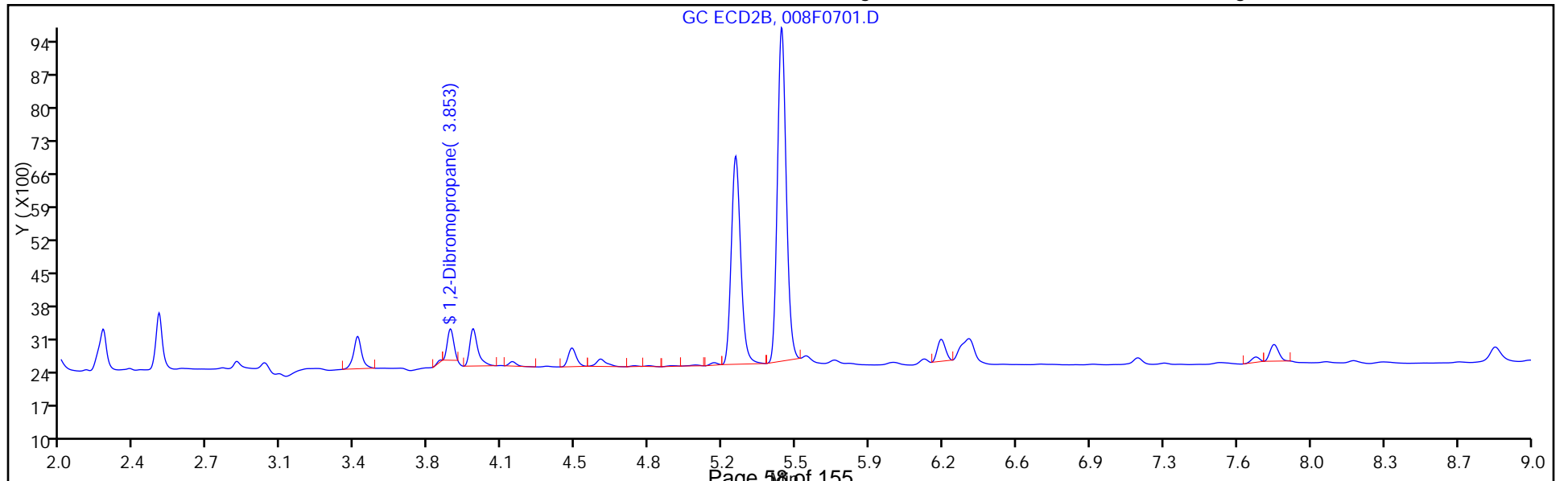
Column: Restex Rtx-502.2 ( 0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Column: Restek Rtx-VRX ( 0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



FORM I  
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-76268-3  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: DMW20102015 Lab Sample ID: 280-76268-10  
 Matrix: Water Lab File ID: 018F1701.D  
 Analysis Method: 8011/DOD Date Collected: 11/02/2015 10:30  
 Extraction Method: 8011 Date Extracted: 11/05/2015 14:18  
 Sample wt/vol: 36.2 (mL) Date Analyzed: 11/05/2015 21:06  
 Con. Extract Vol.: 35 (mL) Dilution Factor: 1  
 Injection Volume: 3 (uL) GC Column: RTX 502.2 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 302773 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
106-93-4	Ethylene Dibromide	0.014	U	0.019	0.014	0.0036

CAS NO.	SURROGATE	%REC	Q	LIMITS
78-75-1	1,2-Dibromopropane	126		70-130

TestAmerica Denver  
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151105-41177.b\018F1701.D  
 Lims ID: 280-76268-S-10-A Lab Sample ID: 280-76268-10  
 Client ID: DMW20102015  
 Sample Type: Client  
 Inject. Date: 05-Nov-2015 21:06:05 ALS Bottle#: 18 Worklist Smp#: 20  
 Injection Vol: 3.0 ul Dil. Factor: 1.0000  
 Sample Info: 280-76268-S-10  
 Operator ID: CDC Instrument ID: SGC\_E  
 Method: \\ChromNA\Denver\ChromData\SGC\_E\20151105-41177.b\504.1.m  
 Limit Group: GCSV - 8011\_504  
 Method Label: 504.1/8011 EDB+TCP+DBCP in water/soil by DV-GC-0019  
 Last Update: 09-Nov-2015 17:48:38 Calib Date: 27-Oct-2015 17:49:31  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\009F0901.D  
 Column 1 : Restex Rtx-502.2 ( 0.32 mm) Det: GC ECD1A  
 Column 2 : Restek Rtx-VRX ( 0.32 mm) Det: GC ECD2B  
 Process Host: XAWRK048

First Level Reviewer: cokleyc Date: 09-Nov-2015 17:44:14

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	----------------	-------

1 Ethylene Dibromide						
1		3.773			ND	
2		3.243				
\$ 2 1,2-Dibromopropane						
1	4.367	4.363	0.004	7463	0.1261	M
2	3.857	3.853	0.004	1486	0.0813	M
RPD = 43.24						

**QC Flag Legend**

Review Flags

M - Manually Integrated

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151105-41177.b\018F1701.D

Injection Date: 05-Nov-2015 21:06:05

Instrument ID: SGC\_E

Operator ID: CDC

Lims ID: 280-76268-S-10-A

Lab Sample ID: 280-76268-10

Worklist Smp#: 20

Client ID: DMW20102015

Injection Vol: 3.0 ul

Dil. Factor: 1.0000

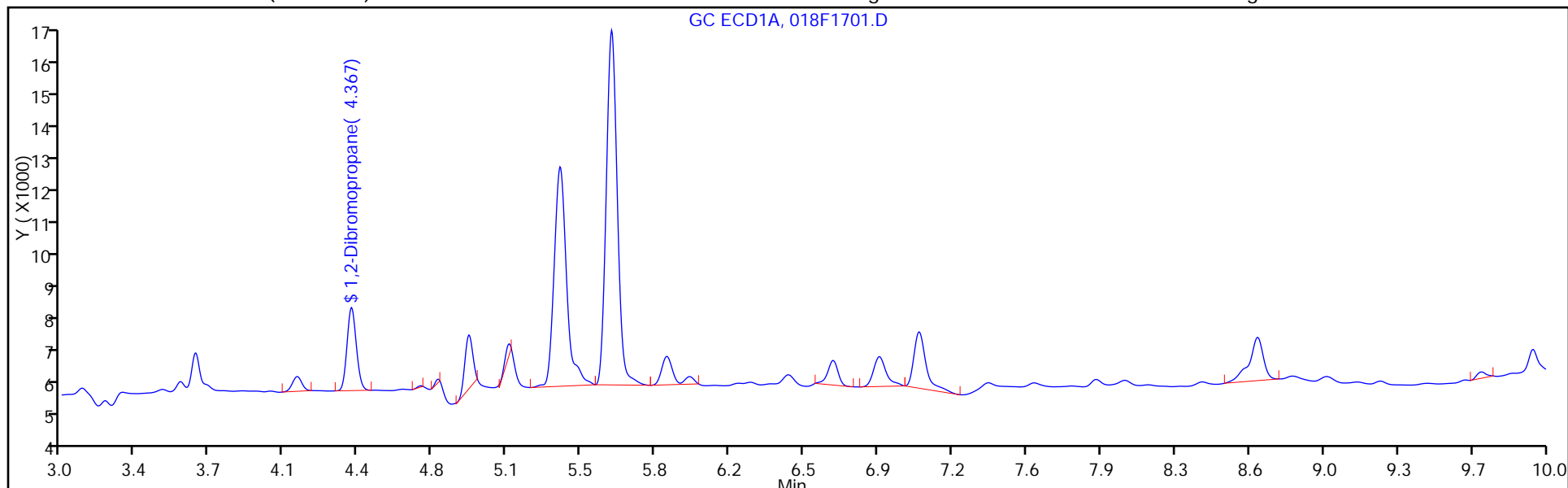
ALS Bottle#: 18

Method: 504.1

Limit Group: GCSV - 8011\_504

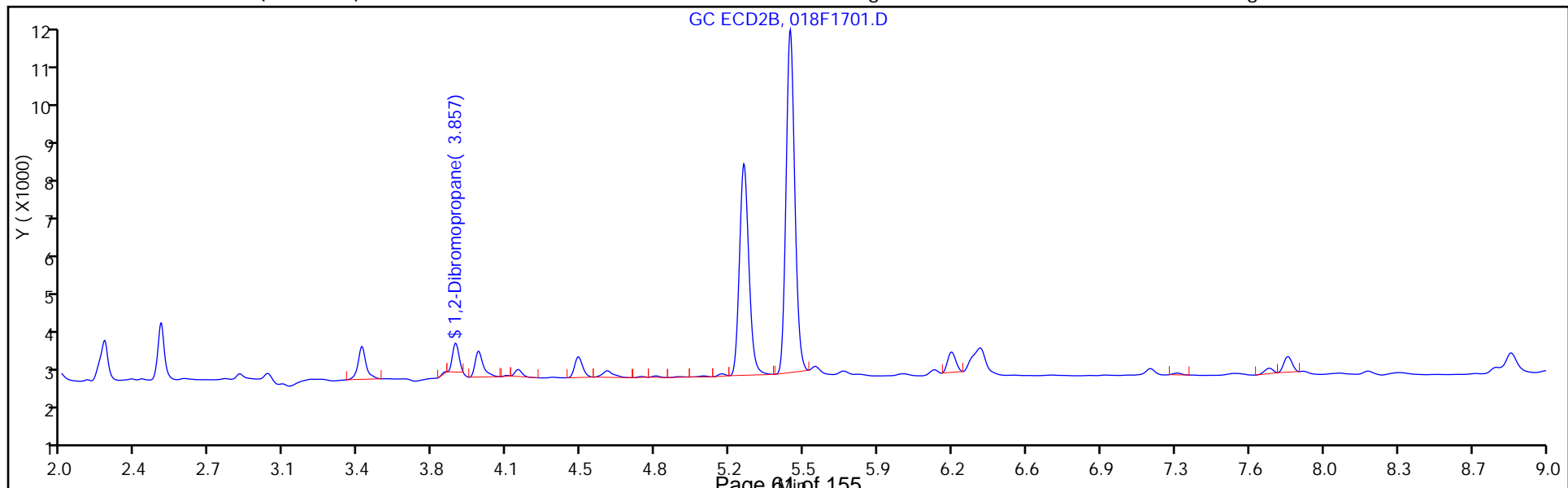
Column: Restex Rtx-502.2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Column: Restek Rtx-VRX (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



FORM VI  
GC SEMI VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-76268-3 Analy Batch No.: 301315

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

Instrument ID: SGC\_E GC Column: RTX 502.2 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/27/2015 15:55 Calibration End Date: 10/27/2015 17:49 Calibration ID: 24205

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 280-301315/10	009F0901.D
Level 2	STD2 280-301315/9	008F0801.D
Level 3	STD3 280-301315/8	007F0701.D
Level 4	STD4RT 280-301315/7	006F0601.D
Level 5	STD5 280-301315/6	005F0501.D
Level 6	STD6 280-301315/5	004F0401.D
Level 7	STD7 280-301315/4	003F0301.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
Ethylene Dibromide	3.783	3.783	3.783	3.783	3.780	3.780	+++++				3.753 - 3.813	3.782
1,2,3-Trichloropropane	5.443	5.443	5.443	5.443	5.443	5.440	5.440				5.413 - 5.473	5.442
1,2-Dibromo-3-Chloropropane	8.717	8.713	8.713	8.713	8.710	8.710	8.710				8.683 - 8.743	8.712
1,2-Dibromopropane	4.373	4.373	4.373	4.370	4.370	4.370	4.367				4.340 - 4.400	4.371

FORM VI  
GC SEMI VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-76268-3 Analy Batch No.: 301315

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

Instrument ID: SGC\_E GC Column: RTX 502.2 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/27/2015 15:55 Calibration End Date: 10/27/2015 17:49 Calibration ID: 24205

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 280-301315/10	009F0901.D
Level 2	STD2 280-301315/9	008F0801.D
Level 3	STD3 280-301315/8	007F0701.D
Level 4	STD4RT 280-301315/7	006F0601.D
Level 5	STD5 280-301315/6	005F0501.D
Level 6	STD6 280-301315/5	004F0401.D
Level 7	STD7 280-301315/4	003F0301.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R <sup>2</sup> OR COD	#	MIN R <sup>2</sup> OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4		B	M1	M2								
Ethylene Dibromide	87500 68105	85750 63579	84358 ++++	73980	Lin1	364.652102	65770.9008							0.9930		0.9900
1,2,3-Trichloropropane	12800 11620	13450 10894	13543 10289	12050	Lin1	50.0174007	10732.8912							0.9950		0.9900
1,2-Dibromo-3-Chloropropane	116200 99525	115600 94729	116832 89477	105430	Lin2	218.787998	99452.9463							0.9910		0.9900
1,2-Dibromopropane	63600 57395	61000 53280	67120 50362	61460	Ave		59173.8571			9.9		10.0				

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI  
GC SEMI VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-76268-3 Analy Batch No.: 301315

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

Instrument ID: SGC\_E GC Column: RTX 502.2 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/27/2015 15:55 Calibration End Date: 10/27/2015 17:49 Calibration ID: 24205

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 280-301315/10	009F0901.D
Level 2	STD2 280-301315/9	008F0801.D
Level 3	STD3 280-301315/8	007F0701.D
Level 4	STD4RT 280-301315/7	006F0601.D
Level 5	STD5 280-301315/6	005F0501.D
Level 6	STD6 280-301315/5	004F0401.D
Level 7	STD7 280-301315/4	003F0301.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		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 6	LVL 7			
Ethylene Dibromide	Lin1	875	1715	4242	7398	13621	0.0100	0.0200	0.0503	0.100	0.200
		18892	++++				0.297	++++			
1,2,3-Trichloropropane	Lin1	128	269	681	1205	2324	0.0100	0.0200	0.0503	0.100	0.200
		3237	5174				0.297	0.503			
1,2-Dibromo-3-Chloropropane	Lin2	1162	2312	5875	10543	19905	0.0100	0.0200	0.0503	0.100	0.200
		28148	44994				0.297	0.503			
1,2-Dibromopropane	Ave	636	1220	3356	6146	11479	0.0100	0.0200	0.0500	0.100	0.200
		15984	25181				0.300	0.500			

Curve Type Legend:

Ave = Average
Lin1 = Linear 1/conc
Lin2 = Linear 1/conc^2



TestAmerica Denver  
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\003F0301.D  
 Lims ID: STD7  
 Client ID:  
 Sample Type: IC Calib Level: 7  
 Inject. Date: 27-Oct-2015 15:55:10 ALS Bottle#: 3 Worklist Smp#: 4  
 Injection Vol: 3.0 ul Dil. Factor: 1.0000  
 Sample Info: STD7  
 Operator ID: EER Instrument ID: SGC\_E  
 Sublist: chrom-504.1\*sub1

Method: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\504.1.m  
 Limit Group: GCSV - 8011\_504  
 Method Label: 504.1/8011 EDB+TCP+DBCP in water/soil by DV-GC-0019  
 Last Update: 28-Oct-2015 12:51:29 Calib Date: 27-Oct-2015 17:49:31  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\009F0901.D  
 Column 1 : Restex Rtx-502.2 ( 0.32 mm) Det: GC ECD1A  
 Column 2 : Restek Rtx-VRX ( 0.32 mm) Det: GC ECD2B  
 Process Host: XAWRK024

First Level Reviewer: redmaner Date: 28-Oct-2015 08:05:02

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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1 Ethylene Dibromide							
1	3.780	3.783	-0.003	29349	0.5029	0.4407	
2	3.247	3.250	-0.003	10883	0.5029	0.4444	
						RPD = 0.83	
\$ 2 1,2-Dibromopropane							
1	4.367	4.370	-0.003	25181	0.5000	0.4255	
2	3.860	3.863	-0.003	7920	0.5000	0.4332	
						RPD = 1.79	
3 1,2,3-Trichloropropane							
1	5.440	5.443	-0.003	5174	0.5029	0.4774	
2	4.603	4.607	-0.004	2994	0.5029	0.4475	
						RPD = 6.47	
4 1,2-Dibromo-3-Chloropropane							
1	8.710	8.713	-0.003	44994	0.5029	0.4502	
2	7.327	7.330	-0.003	12400	0.5029	0.4725	
						RPD = 4.83	

Reagents:

504ICALWork\_00100 Amount Added: 880.00 Units: uL  
 504SurrWork\_00149 Amount Added: 175.00 Units: uL

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\003F0301.D

Injection Date: 27-Oct-2015 15:55:10

Instrument ID: SGC\_E

Operator ID: EER

Lims ID: STD7

Worklist Smp#: 4

Client ID:

Injection Vol: 3.0 ul

Dil. Factor: 1.0000

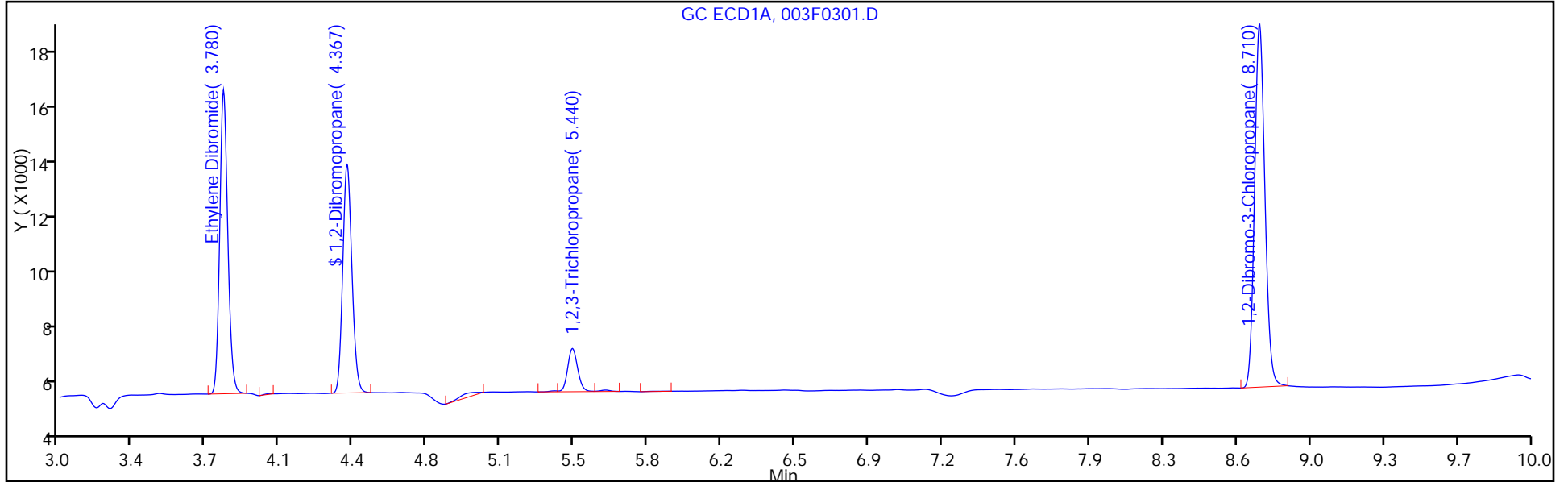
ALS Bottle#: 3

Method: 504.1

Limit Group: GCSV - 8011\_504

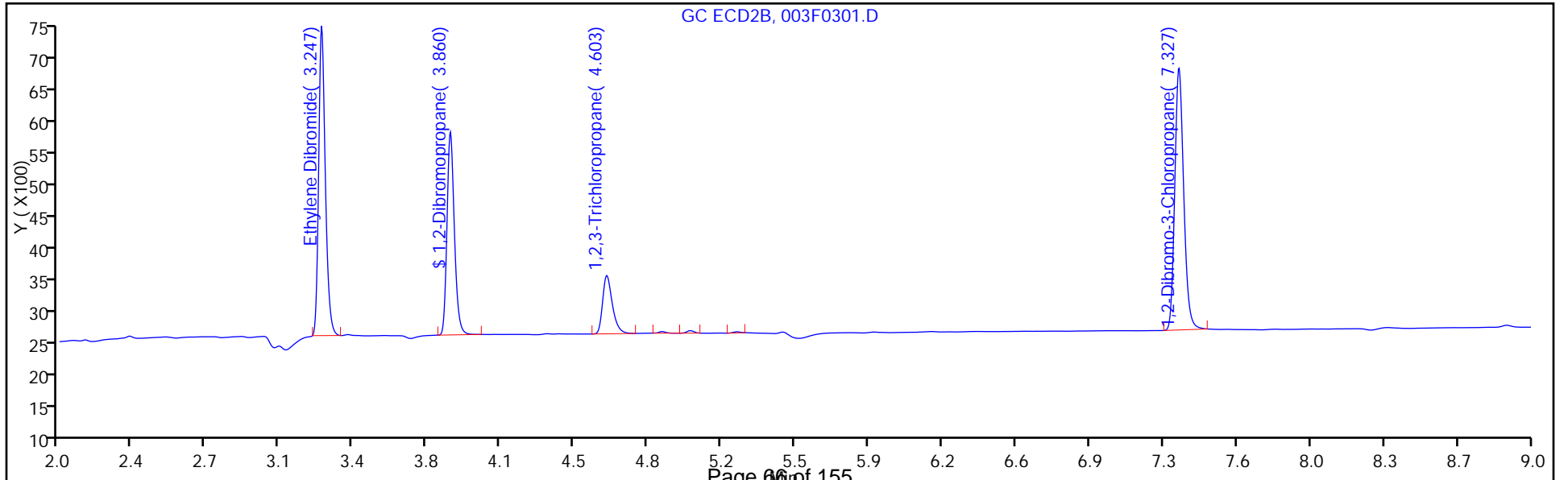
Column: Restex Rtx-502.2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Column: Restek Rtx-VRX (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



TestAmerica Denver  
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\004F0401.D  
 Lims ID: STD6  
 Client ID:  
 Sample Type: IC Calib Level: 6  
 Inject. Date: 27-Oct-2015 16:14:17 ALS Bottle#: 4 Worklist Smp#: 5  
 Injection Vol: 3.0 ul Dil. Factor: 1.0000  
 Sample Info: STD6  
 Operator ID: EER Instrument ID: SGC\_E  
 Sublist: chrom-504.1\*sub1

Method: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\504.1.m  
 Limit Group: GCSV - 8011\_504  
 Method Label: 504.1/8011 EDB+TCP+DBCP in water/soil by DV-GC-0019  
 Last Update: 28-Oct-2015 12:51:40 Calib Date: 27-Oct-2015 17:49:31  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\009F0901.D

Column 1 : Restex Rtx-502.2 ( 0.32 mm) Det: GC ECD1A  
 Column 2 : Restek Rtx-VRX ( 0.32 mm) Det: GC ECD2B  
 Process Host: XAWRK024

First Level Reviewer: redmaner Date: 28-Oct-2015 08:05:13

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

1 Ethylene Dibromide							
1	3.780	3.783	-0.003	18892	0.2971	0.2817	
2	3.247	3.250	-0.003	6967	0.2971	0.2829	
						RPD = 0.42	
\$ 2 1,2-Dibromopropane							
1	4.370	4.370	0.000	15984	0.3000	0.2701	
2	3.860	3.863	-0.003	5034	0.3000	0.2754	
						RPD = 1.92	
3 1,2,3-Trichloropropane							
1	5.440	5.443	-0.003	3237	0.2971	0.2969	
2	4.603	4.607	-0.004	1854	0.2971	0.2771	
						RPD = 6.91	
4 1,2-Dibromo-3-Chloropropane							
1	8.710	8.713	-0.003	28148	0.2971	0.2808	
2	7.327	7.330	-0.003	7927	0.2971	0.3003	
						RPD = 6.69	

Reagents:

504ICALWork\_00100 Amount Added: 520.00 Units: uL  
 504SurrWork\_00149 Amount Added: 105.00 Units: uL

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\004F0401.D

Injection Date: 27-Oct-2015 16:14:17

Instrument ID: SGC\_E

Operator ID: EER

Lims ID: STD6

Worklist Smp#: 5

Client ID:

Injection Vol: 3.0 ul

Dil. Factor: 1.0000

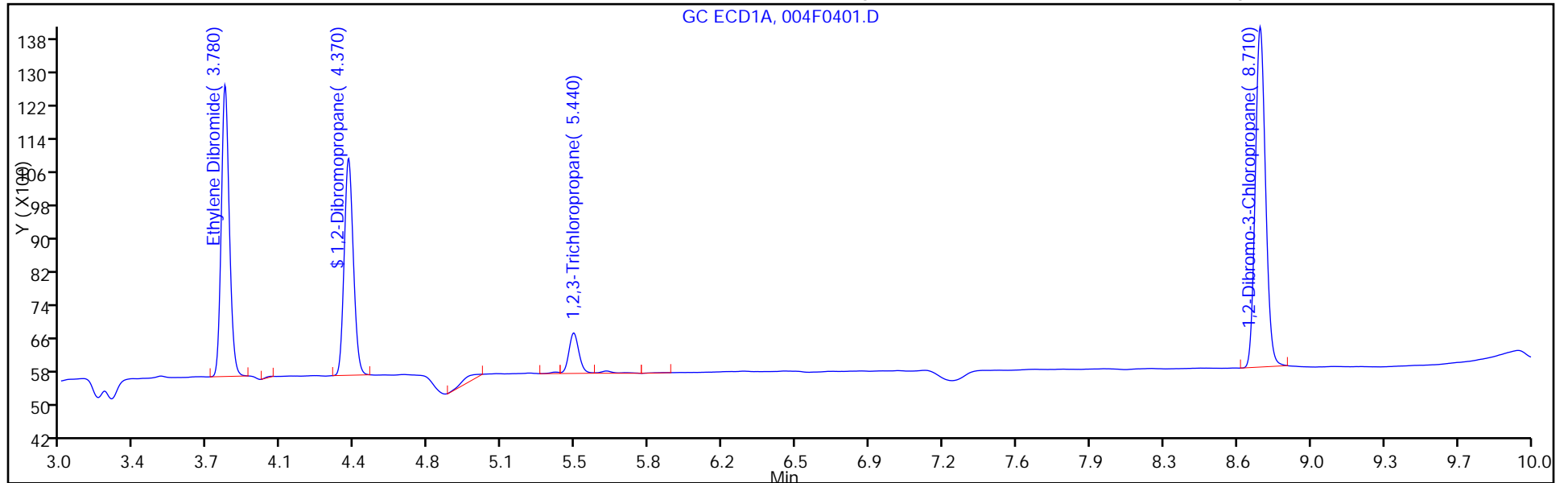
ALS Bottle#: 4

Method: 504.1

Limit Group: GCSV - 8011\_504

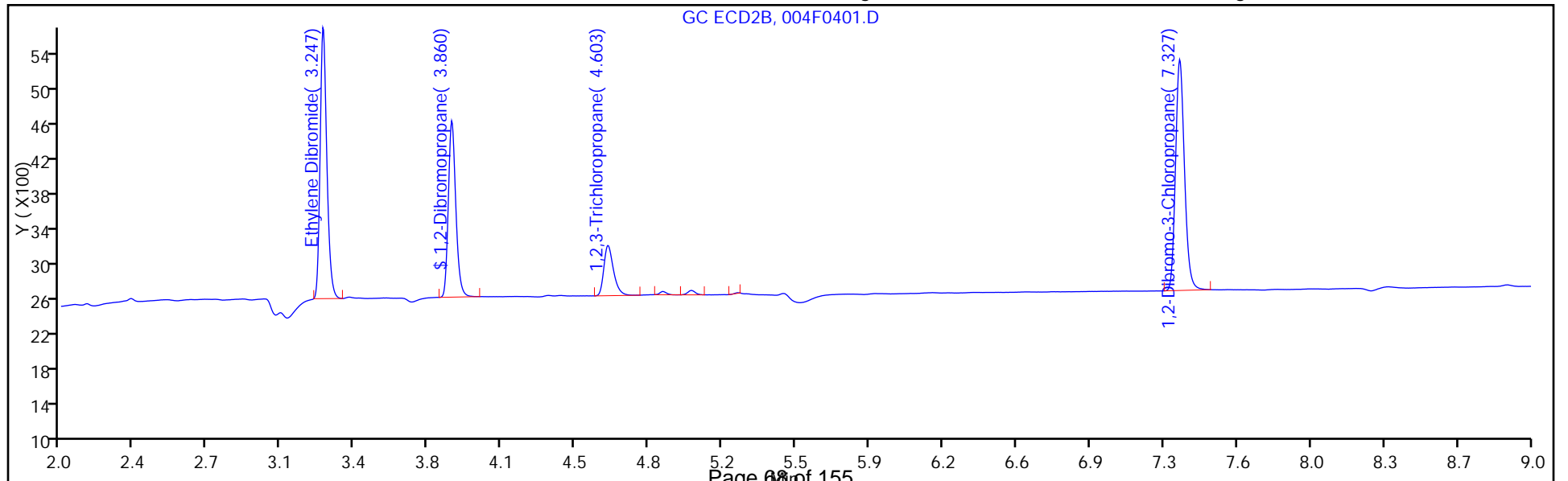
Column: Restex Rtx-502.2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Column: Restek Rtx-VRX (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



TestAmerica Denver  
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\005F0501.D  
 Lims ID: STD5  
 Client ID:  
 Sample Type: IC Calib Level: 5  
 Inject. Date: 27-Oct-2015 16:33:28 ALS Bottle#: 5 Worklist Smp#: 6  
 Injection Vol: 3.0 ul Dil. Factor: 1.0000  
 Sample Info: STD5  
 Operator ID: EER Instrument ID: SGC\_E  
 Sublist: chrom-504.1\*sub1

Method: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\504.1.m  
 Limit Group: GCSV - 8011\_504  
 Method Label: 504.1/8011 EDB+TCP+DBCP in water/soil by DV-GC-0019  
 Last Update: 28-Oct-2015 12:51:46 Calib Date: 27-Oct-2015 17:49:31  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\009F0901.D  
 Column 1 : Restex Rtx-502.2 ( 0.32 mm) Det: GC ECD1A  
 Column 2 : Restek Rtx-VRX ( 0.32 mm) Det: GC ECD2B  
 Process Host: XAWRK024

First Level Reviewer: redmaner Date: 28-Oct-2015 08:05:24

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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1 Ethylene Dibromide							
1	3.780	3.783	-0.003	13621	0.2000	0.2016	
2	3.250	3.250	0.000	4999	0.2000	0.2017	
						RPD = 0.08	
\$ 2 1,2-Dibromopropane							
1	4.370	4.370	0.000	11479	0.2000	0.1940	
2	3.860	3.863	-0.003	3611	0.2000	0.1975	
						RPD = 1.80	
3 1,2,3-Trichloropropane							
1	5.443	5.443	0.000	2324	0.2000	0.2119	
2	4.607	4.607	0.000	1345	0.2000	0.2010	
						RPD = 5.25	
4 1,2-Dibromo-3-Chloropropane							
1	8.710	8.713	-0.003	19905	0.2000	0.1979	
2	7.327	7.330	-0.003	5620	0.2000	0.2115	
						RPD = 6.60	

Reagents:

504ICALWork\_00100 Amount Added: 350.00 Units: uL  
 504SurrWork\_00149 Amount Added: 70.00 Units: uL

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\005F0501.D

Injection Date: 27-Oct-2015 16:33:28

Instrument ID: SGC\_E

Operator ID: EER

Lims ID: STD5

Worklist Smp#: 6

Client ID:

Injection Vol: 3.0 ul

Dil. Factor: 1.0000

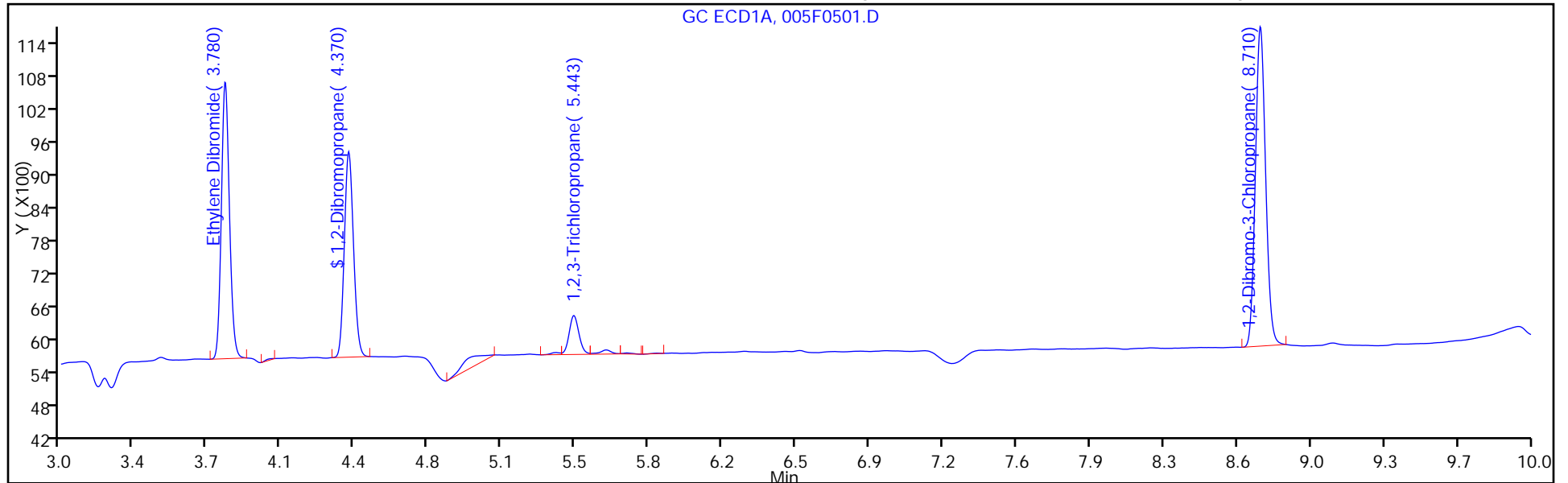
ALS Bottle#: 5

Method: 504.1

Limit Group: GCSV - 8011\_504

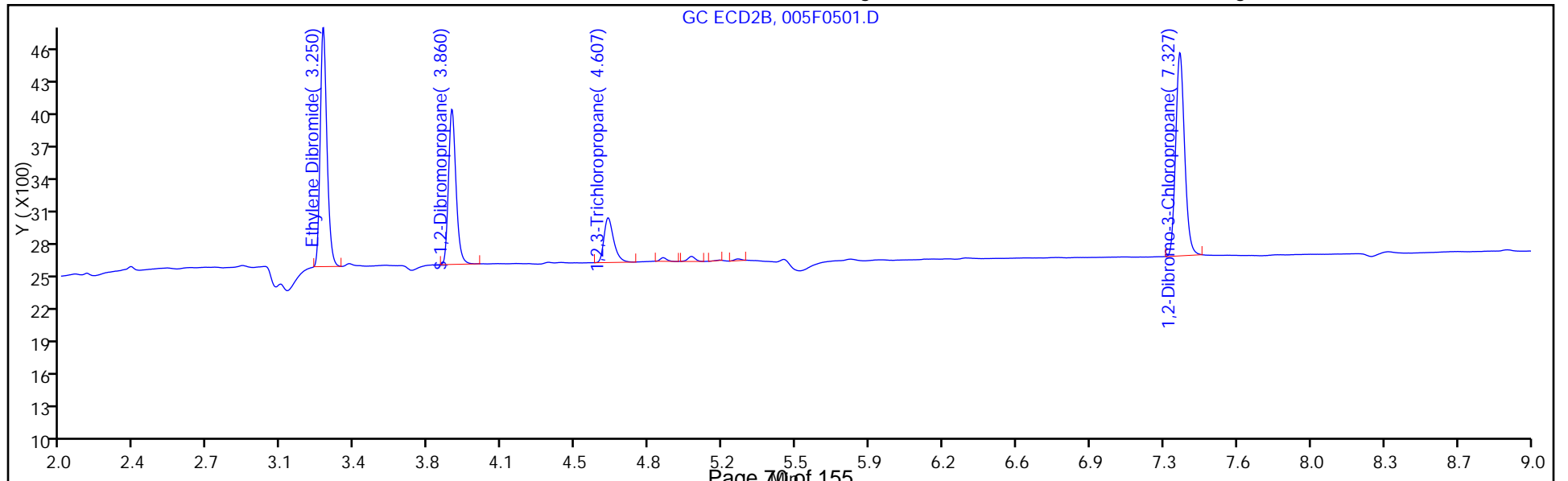
Column: Restex Rtx-502.2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Column: Restek Rtx-VRX (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



TestAmerica Denver  
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\006F0601.D  
 Lims ID: STD4RT  
 Client ID:  
 Sample Type: ICRT Calib Level: 4  
 Inject. Date: 27-Oct-2015 16:52:30 ALS Bottle#: 6 Worklist Smp#: 7  
 Injection Vol: 3.0 ul Dil. Factor: 1.0000  
 Sample Info: STD4  
 Operator ID: EER Instrument ID: SGC\_E  
 Sublist: chrom-504.1\*sub1

Method: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\504.1.m  
 Limit Group: GCSV - 8011\_504  
 Method Label: 504.1/8011 EDB+TCP+DBCP in water/soil by DV-GC-0019  
 Last Update: 28-Oct-2015 12:51:19 Calib Date: 27-Oct-2015 17:49:31  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\009F0901.D  
 Column 1 : Restex Rtx-502.2 ( 0.32 mm) Det: GC ECD1A  
 Column 2 : Restek Rtx-VRX ( 0.32 mm) Det: GC ECD2B  
 Process Host: XAWRK024

First Level Reviewer: cokleyc Date: 28-Oct-2015 12:51:19

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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1 Ethylene Dibromide							
1	3.783	3.783	0.000	7398	0.1000	0.1069	
2	3.250	3.250	0.000	2686	0.1000	0.1063	
						RPD = 0.58	
\$ 2 1,2-Dibromopropane							
1	4.370	4.370	0.000	6146	0.1000	0.1039	
2	3.863	3.863	0.000	1911	0.1000	0.1045	
						RPD = 0.64	
3 1,2,3-Trichloropropane							
1	5.443	5.443	0.000	1205	0.1000	0.1076	
2	4.607	4.607	0.000	660	0.1000	0.0986	
						RPD = 8.70	
4 1,2-Dibromo-3-Chloropropane							
1	8.713	8.713	0.000	10543	0.1000	0.1038	
2	7.330	7.330	0.000	2973	0.1000	0.1095	
						RPD = 5.36	

Reagents:

504ICALWork\_00100 Amount Added: 175.00 Units: uL  
 504SurrWork\_00149 Amount Added: 35.00 Units: uL

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\006F0601.D

Injection Date: 27-Oct-2015 16:52:30

Instrument ID: SGC\_E

Operator ID: EER

Lims ID: STD4RT

Worklist Smp#: 7

Client ID:

Injection Vol: 3.0 ul

Dil. Factor: 1.0000

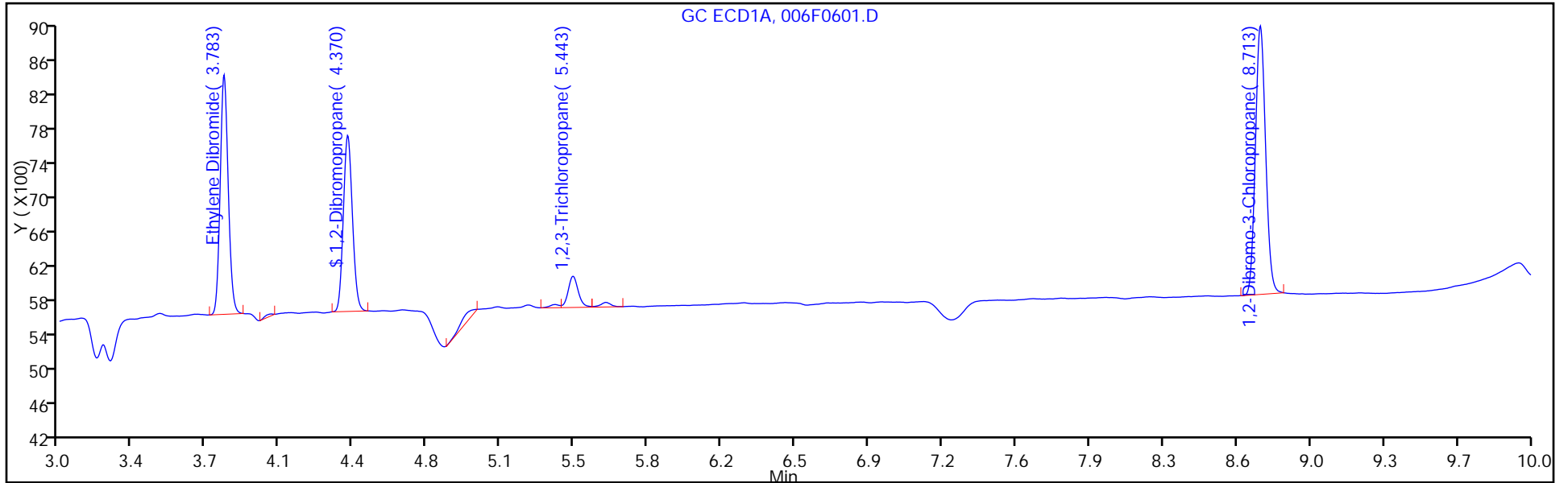
ALS Bottle#: 6

Method: 504.1

Limit Group: GCSV - 8011\_504

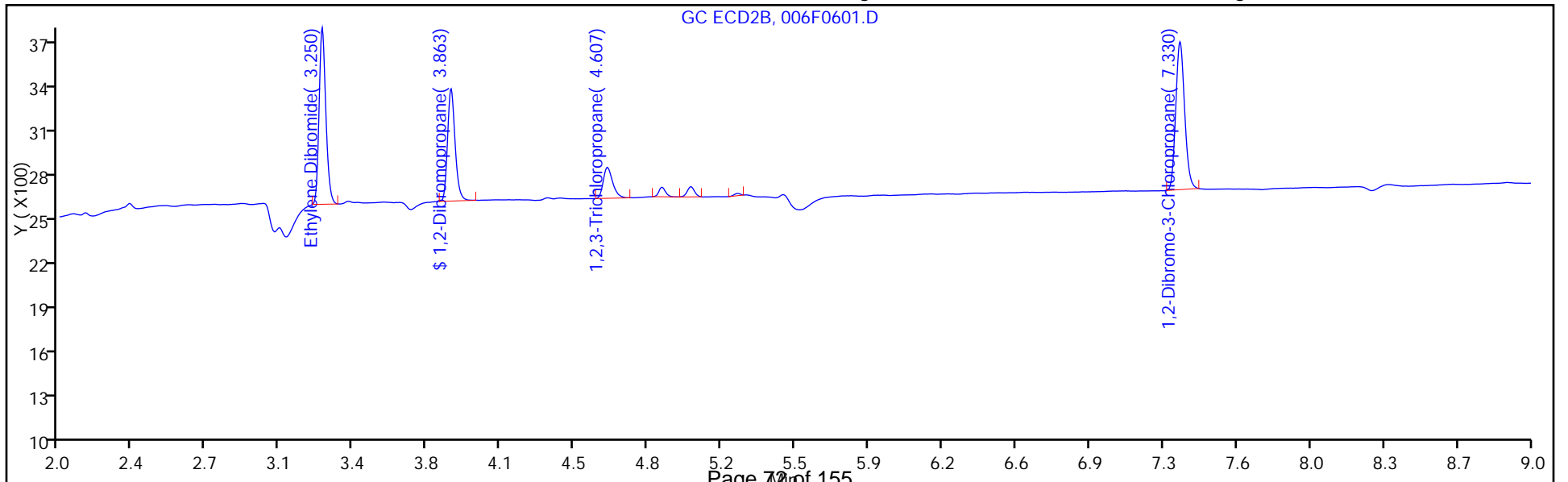
Column: Restex Rtx-502.2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Column: Restek Rtx-VRX (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1





TestAmerica Denver  
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\007F0701.D  
 Lims ID: STD3  
 Client ID:  
 Sample Type: IC Calib Level: 3  
 Inject. Date: 27-Oct-2015 17:11:34 ALS Bottle#: 7 Worklist Smp#: 8  
 Injection Vol: 3.0 ul Dil. Factor: 1.0000  
 Sample Info: STD3  
 Operator ID: EER Instrument ID: SGC\_E  
 Sublist: chrom-504.1\*sub1

Method: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\504.1.m  
 Limit Group: GCSV - 8011\_504  
 Method Label: 504.1/8011 EDB+TCP+DBCP in water/soil by DV-GC-0019  
 Last Update: 28-Oct-2015 12:51:54 Calib Date: 27-Oct-2015 17:49:31  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\009F0901.D  
 Column 1 : Restex Rtx-502.2 ( 0.32 mm) Det: GC ECD1A  
 Column 2 : Restek Rtx-VRX ( 0.32 mm) Det: GC ECD2B  
 Process Host: XAWRK024

First Level Reviewer: redmaner Date: 28-Oct-2015 08:05:45

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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1 Ethylene Dibromide							
1	3.783	3.783	0.000	4242	0.0503	0.0590	
2	3.250	3.250	0.000	1519	0.0503	0.0582	
						RPD = 1.30	
\$ 2 1,2-Dibromopropane							
1	4.373	4.370	0.003	3356	0.0500	0.0567	
2	3.863	3.863	0.000	1032	0.0500	0.0564	
						RPD = 0.47	
3 1,2,3-Trichloropropane							
1	5.443	5.443	0.000	681	0.0503	0.0588	
2	4.607	4.607	0.000	378	0.0503	0.0565	
						RPD = 3.98	
4 1,2-Dibromo-3-Chloropropane							
1	8.713	8.713	0.000	5875	0.0503	0.0569	
2	7.330	7.330	0.000	1664	0.0503	0.0591	
						RPD = 3.89	

Reagents:

504ICALWork\_00100 Amount Added: 88.00 Units: uL  
 504SurrWork\_00149 Amount Added: 17.50 Units: uL

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\007F0701.D

Injection Date: 27-Oct-2015 17:11:34

Instrument ID: SGC\_E

Operator ID: EER

Lims ID: STD3

Worklist Smp#: 8

Client ID:

Injection Vol: 3.0 ul

Dil. Factor: 1.0000

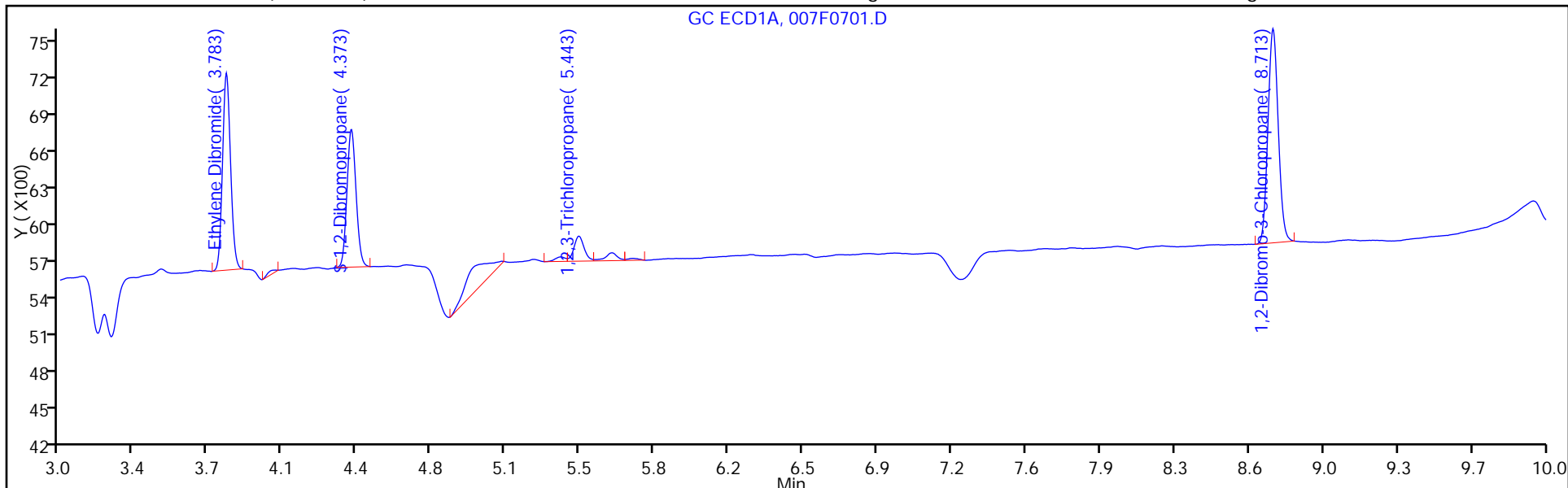
ALS Bottle#: 7

Method: 504.1

Limit Group: GCSV - 8011\_504

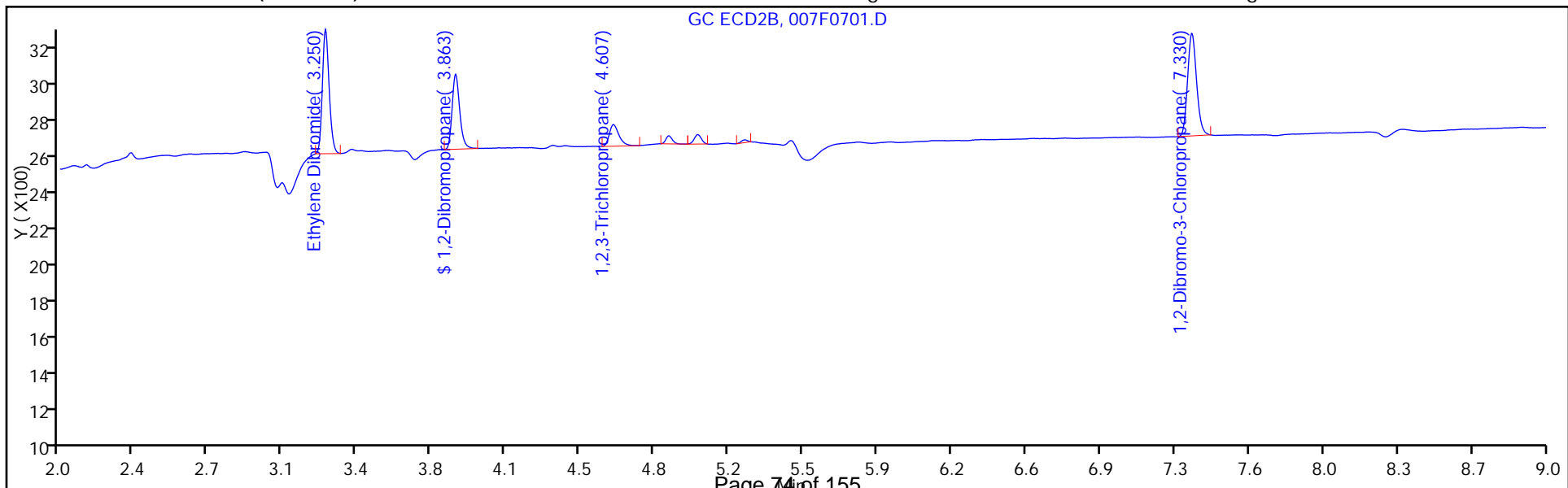
Column: Restex Rtx-502.2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Column: Restek Rtx-VRX (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



TestAmerica Denver  
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\008F0801.D  
 Lims ID: STD2  
 Client ID:  
 Sample Type: IC Calib Level: 2  
 Inject. Date: 27-Oct-2015 17:30:34 ALS Bottle#: 8 Worklist Smp#: 9  
 Injection Vol: 3.0 ul Dil. Factor: 1.0000  
 Sample Info: STD2  
 Operator ID: EER Instrument ID: SGC\_E  
 Sublist: chrom-504.1\*sub1

Method: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\504.1.m  
 Limit Group: GCSV - 8011\_504  
 Method Label: 504.1/8011 EDB+TCP+DBCP in water/soil by DV-GC-0019  
 Last Update: 28-Oct-2015 12:52:01 Calib Date: 27-Oct-2015 17:49:31  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\009F0901.D  
 Column 1 : Restex Rtx-502.2 ( 0.32 mm) Det: GC ECD1A  
 Column 2 : Restek Rtx-VRX ( 0.32 mm) Det: GC ECD2B  
 Process Host: XAWRK024

First Level Reviewer: redmaner Date: 28-Oct-2015 08:05:57

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

1 Ethylene Dibromide							
1	3.783	3.783	0.000	1715	0.0200	0.0205	
2	3.250	3.250	0.000	600	0.0200	0.0203	
						RPD = 1.17	
\$ 2 1,2-Dibromopropane							
1	4.373	4.370	0.003	1220	0.0200	0.0206	
2	3.863	3.863	0.000	373	0.0200	0.0204	
						RPD = 1.05	
3 1,2,3-Trichloropropane							
1	5.443	5.443	0.000	269	0.0200	0.0204	
2	4.607	4.607	0.000	140	0.0200	0.0209	
						RPD = 2.52	
4 1,2-Dibromo-3-Chloropropane							
1	8.713	8.713	0.000	2312	0.0200	0.0210	
2	7.333	7.330	0.003	657	0.0200	0.0204	
						RPD = 3.33	

Reagents:

504ICALWork\_00100 Amount Added: 35.00 Units: uL  
 504SurrWork\_00149 Amount Added: 7.00 Units: uL

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\008F0801.D

Injection Date: 27-Oct-2015 17:30:34

Instrument ID: SGC\_E

Operator ID: EER

Lims ID: STD2

Worklist Smp#: 9

Client ID:

Injection Vol: 3.0 ul

Dil. Factor: 1.0000

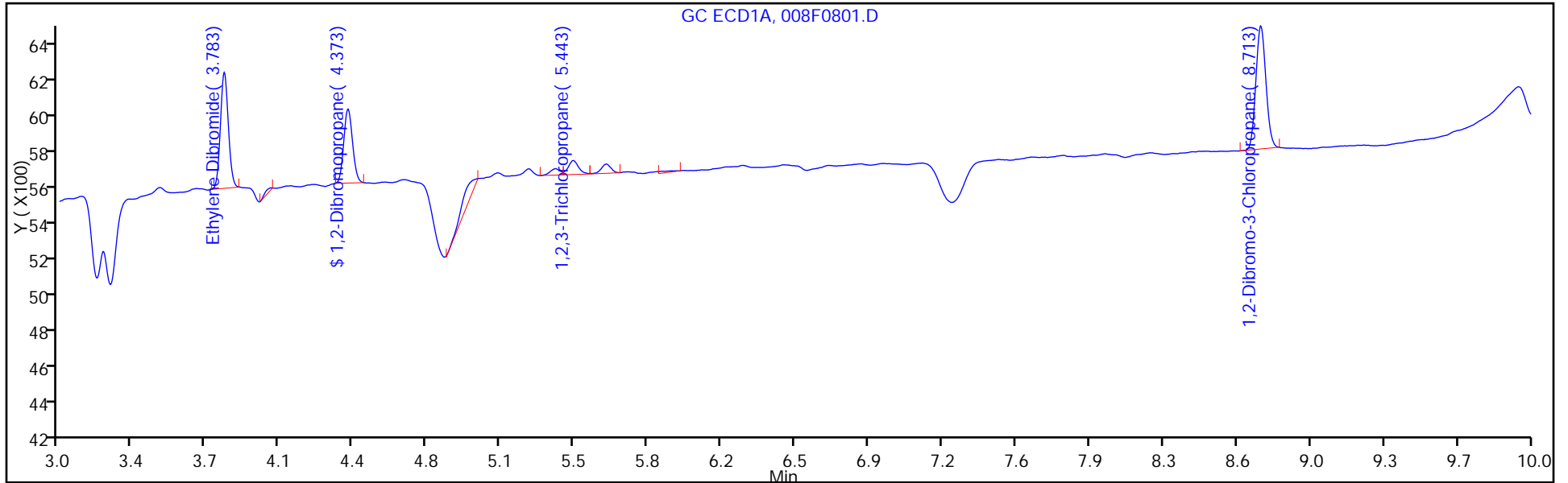
ALS Bottle#: 8

Method: 504.1

Limit Group: GCSV - 8011\_504

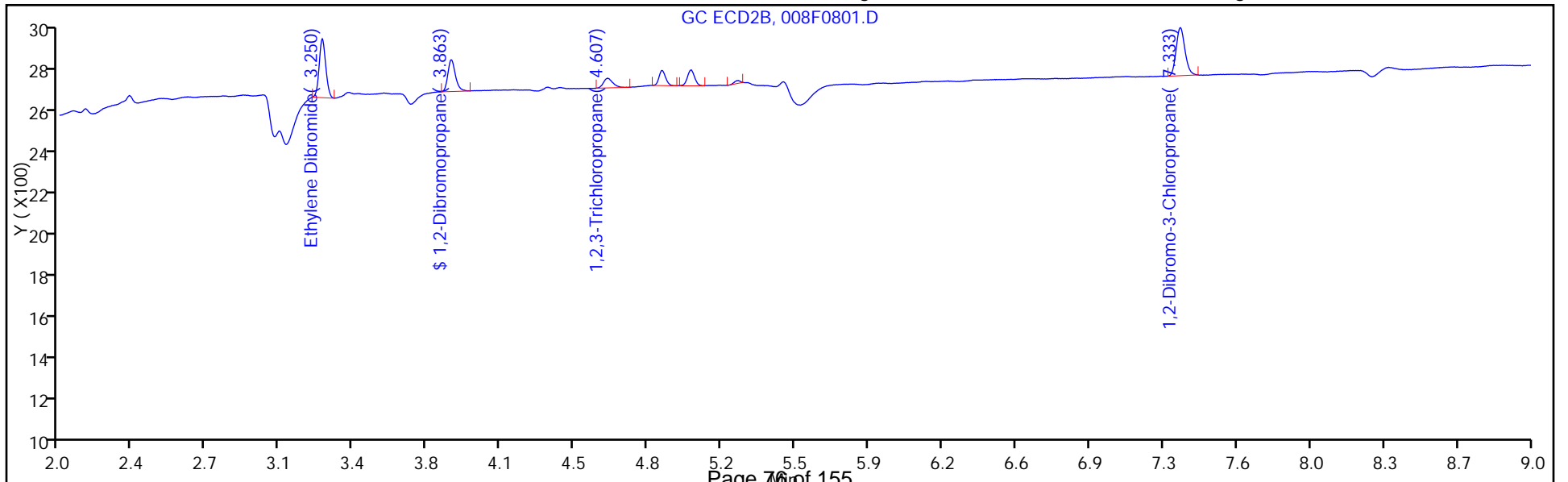
Column: Restex Rtx-502.2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Column: Restek Rtx-VRX (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



TestAmerica Denver  
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\009F0901.D  
 Lims ID: STD1  
 Client ID:  
 Sample Type: IC Calib Level: 1  
 Inject. Date: 27-Oct-2015 17:49:31 ALS Bottle#: 9 Worklist Smp#: 10  
 Injection Vol: 3.0 ul Dil. Factor: 1.0000  
 Sample Info: STD1  
 Operator ID: EER Instrument ID: SGC\_E  
 Sublist: chrom-504.1\*sub1

Method: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\504.1.m  
 Limit Group: GCSV - 8011\_504  
 Method Label: 504.1/8011 EDB+TCP+DBCP in water/soil by DV-GC-0019  
 Last Update: 28-Oct-2015 12:52:05 Calib Date: 27-Oct-2015 17:49:31  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\009F0901.D  
 Column 1 : Restex Rtx-502.2 ( 0.32 mm) Det: GC ECD1A  
 Column 2 : Restek Rtx-VRX ( 0.32 mm) Det: GC ECD2B  
 Process Host: XAWRK024

First Level Reviewer: redmaner Date: 28-Oct-2015 08:06:30

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

1 Ethylene Dibromide							
1	3.783	3.783	0.000	875	0.0100	0.007759	
2	3.250	3.250	0.000	303	0.0100	0.008044	
						RPD = 3.60	
\$ 2 1,2-Dibromopropane							
1	4.373	4.370	0.003	636	0.0100	0.0107	
2	3.863	3.863	0.000	189	0.0100	0.0103	
						RPD = 3.89	
3 1,2,3-Trichloropropane							
1	5.443	5.443	0.000	128	0.0100	0.007266	
2	4.610	4.607	0.003	68	0.0100	0.0102	
						RPD = 33.25	
4 1,2-Dibromo-3-Chloropropane							
1	8.717	8.713	0.004	1162	0.0100	0.009484	
2	7.333	7.330	0.003	311	0.0100	0.007035	
						RPD = 29.65	

Reagents:

504ICALWork\_00100 Amount Added: 17.50 Units: uL  
 504SurrWork\_00149 Amount Added: 3.50 Units: uL

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\009F0901.D

Injection Date: 27-Oct-2015 17:49:31

Instrument ID: SGC\_E

Operator ID: EER

Lims ID: STD1

Worklist Smp#: 10

Client ID:

Injection Vol: 3.0 ul

Dil. Factor: 1.0000

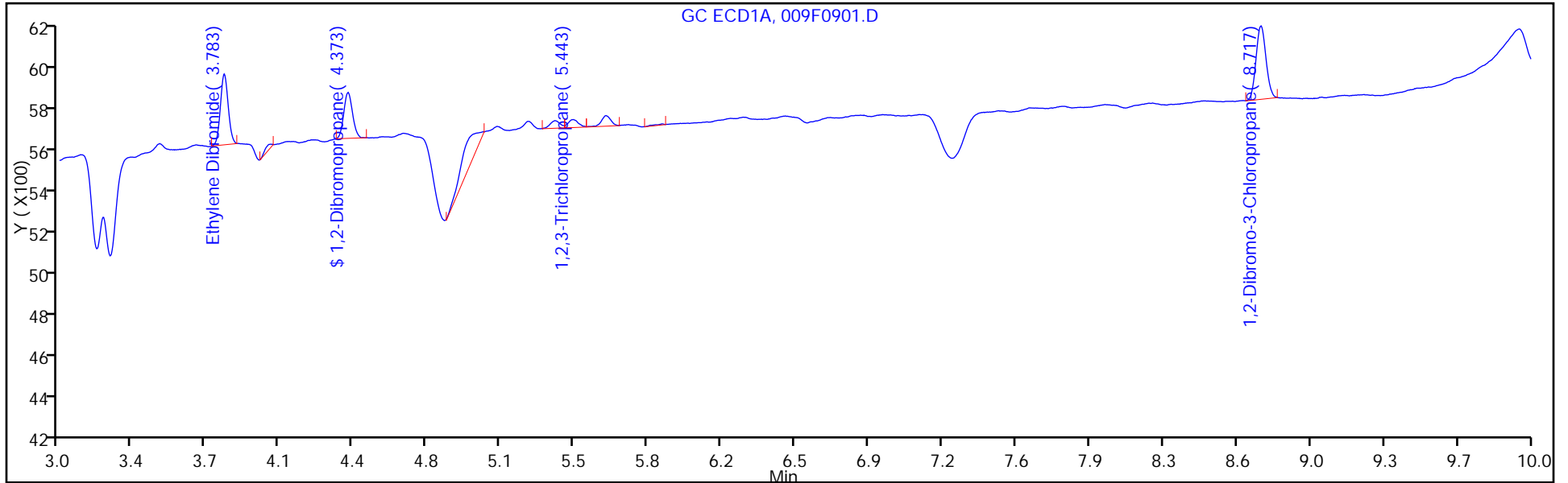
ALS Bottle#: 9

Method: 504.1

Limit Group: GCSV - 8011\_504

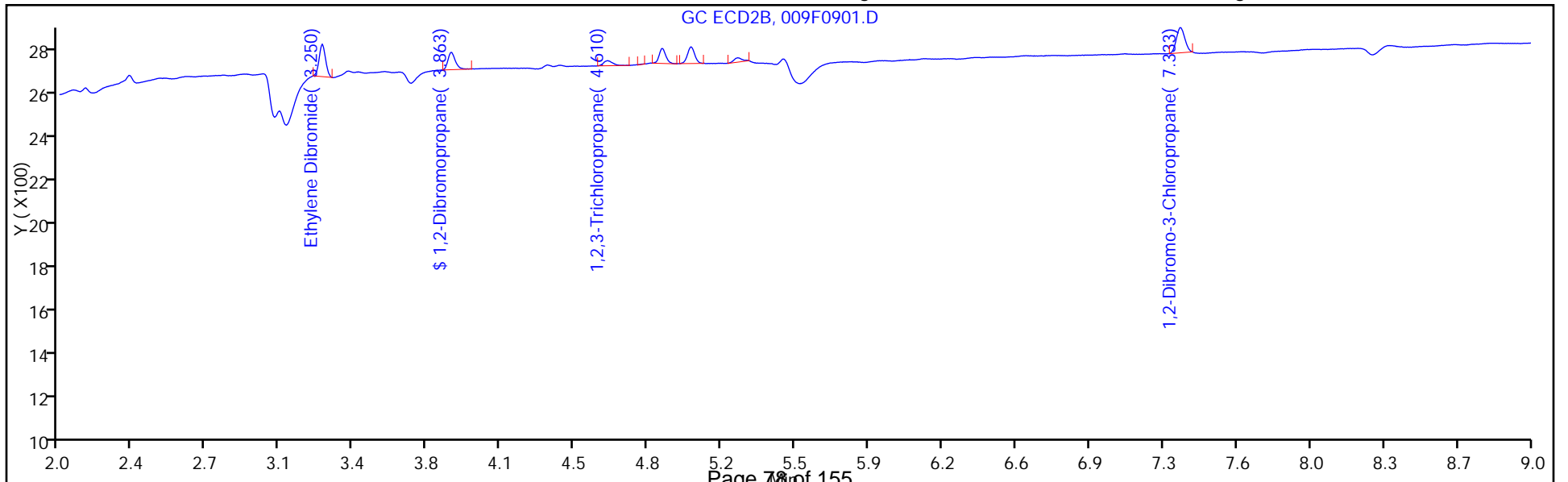
Column: Restex Rtx-502.2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Column: Restek Rtx-VRX (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



FORM VI  
GC SEMI VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-76268-3 Analy Batch No.: 301315

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

Instrument ID: SGC\_E GC Column: RTX-VRX ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/27/2015 15:55 Calibration End Date: 10/27/2015 17:49 Calibration ID: 24206

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 280-301315/10	009F0901.D
Level 2	STD2 280-301315/9	008F0801.D
Level 3	STD3 280-301315/8	007F0701.D
Level 4	STD4RT 280-301315/7	006F0601.D
Level 5	STD5 280-301315/6	005F0501.D
Level 6	STD6 280-301315/5	004F0401.D
Level 7	STD7 280-301315/4	003F0301.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
Ethylene Dibromide	3.250	3.250	3.250	3.250	3.250	3.247	+++++				3.220 - 3.280	3.250
1,2,3-Trichloropropane	4.610	4.607	4.607	4.607	4.607	4.603	4.603				4.577 - 4.637	4.606
1,2-Dibromo-3-Chloropropane	7.333	7.333	7.330	7.330	7.327	7.327	7.327				7.300 - 7.360	7.330
1,2-Dibromopropane	3.863	3.863	3.863	3.863	3.860	3.860	3.860				3.833 - 3.893	3.862

FORM VI  
GC SEMI VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-76268-3 Analy Batch No.: 301315

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

Instrument ID: SGC\_E GC Column: RTX-VRX ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/27/2015 15:55 Calibration End Date: 10/27/2015 17:49 Calibration ID: 24206

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 280-301315/10	009F0901.D
Level 2	STD2 280-301315/9	008F0801.D
Level 3	STD3 280-301315/8	007F0701.D
Level 4	STD4RT 280-301315/7	006F0601.D
Level 5	STD5 280-301315/6	005F0501.D
Level 6	STD6 280-301315/5	004F0401.D
Level 7	STD7 280-301315/4	003F0301.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R <sup>2</sup> OR COD	#	MIN R <sup>2</sup> OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4		B	M1	M2								
Ethylene Dibromide	30300 24995	30000 23447	30207 ++++	26860	Lin1	107.943623	24248.0742							0.9940		0.9900
1,2,3-Trichloropropane	6800.0 6725.0	7000.0 6239.4	7517.0 5954.0	6600.0	Ave		6690.77797			7.6		10.0				
1,2-Dibromo-3-Chloropropane	31100 28100	32850 26677	33091 24659	29730	Lin1	128.289327	25971.6561							0.9940		0.9900
1,2-Dibromopropane	18900 18055	18650 16780	20640 15840	19110	Ave		18282.1429			8.7		10.0				

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.



FORM VI  
GC SEMI VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-76268-3 Analy Batch No.: 301315

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

Instrument ID: SGC\_E GC Column: RTX-VRX ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/27/2015 15:55 Calibration End Date: 10/27/2015 17:49 Calibration ID: 24206

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 280-301315/10	009F0901.D
Level 2	STD2 280-301315/9	008F0801.D
Level 3	STD3 280-301315/8	007F0701.D
Level 4	STD4RT 280-301315/7	006F0601.D
Level 5	STD5 280-301315/6	005F0501.D
Level 6	STD6 280-301315/5	004F0401.D
Level 7	STD7 280-301315/4	003F0301.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		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 6	LVL 7			
Ethylene Dibromide	Lin1	303 6967	600 ++++	1519	2686	4999	0.0100 0.297	0.0200 ++++	0.0503	0.100	0.200
1,2,3-Trichloropropane	Ave	68 1854	140 2994	378	660	1345	0.0100 0.297	0.0200 0.503	0.0503	0.100	0.200
1,2-Dibromo-3-Chloropropane	Lin1	311 7927	657 12400	1664	2973	5620	0.0100 0.297	0.0200 0.503	0.0503	0.100	0.200
1,2-Dibromopropane	Ave	189 5034	373 7920	1032	1911	3611	0.0100 0.300	0.0200 0.500	0.0500	0.100	0.200

Curve Type Legend:

Ave = Average  
Lin1 = Linear 1/conc

TestAmerica Denver  
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\003F0301.D  
 Lims ID: STD7  
 Client ID:  
 Sample Type: IC Calib Level: 7  
 Inject. Date: 27-Oct-2015 15:55:10 ALS Bottle#: 3 Worklist Smp#: 4  
 Injection Vol: 3.0 ul Dil. Factor: 1.0000  
 Sample Info: STD7  
 Operator ID: EER Instrument ID: SGC\_E  
 Sublist: chrom-504.1\*sub1

Method: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\504.1.m  
 Limit Group: GCSV - 8011\_504  
 Method Label: 504.1/8011 EDB+TCP+DBCP in water/soil by DV-GC-0019  
 Last Update: 28-Oct-2015 12:51:29 Calib Date: 27-Oct-2015 17:49:31  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\009F0901.D

Column 1 : Restex Rtx-502.2 ( 0.32 mm) Det: GC ECD1A  
 Column 2 : Restek Rtx-VRX ( 0.32 mm) Det: GC ECD2B  
 Process Host: XAWRK024

First Level Reviewer: redmaner Date: 28-Oct-2015 08:05:02

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

1 Ethylene Dibromide							
1	3.780	3.783	-0.003	29349	0.5029	0.4407	
2	3.247	3.250	-0.003	10883	0.5029	0.4444	
						RPD = 0.83	
\$ 2 1,2-Dibromopropane							
1	4.367	4.370	-0.003	25181	0.5000	0.4255	
2	3.860	3.863	-0.003	7920	0.5000	0.4332	
						RPD = 1.79	
3 1,2,3-Trichloropropane							
1	5.440	5.443	-0.003	5174	0.5029	0.4774	
2	4.603	4.607	-0.004	2994	0.5029	0.4475	
						RPD = 6.47	
4 1,2-Dibromo-3-Chloropropane							
1	8.710	8.713	-0.003	44994	0.5029	0.4502	
2	7.327	7.330	-0.003	12400	0.5029	0.4725	
						RPD = 4.83	

Reagents:

504ICALWork\_00100 Amount Added: 880.00 Units: uL  
 504SurrWork\_00149 Amount Added: 175.00 Units: uL

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\003F0301.D

Injection Date: 27-Oct-2015 15:55:10

Instrument ID: SGC\_E

Operator ID: EER

Lims ID: STD7

Worklist Smp#: 4

Client ID:

Injection Vol: 3.0 ul

Dil. Factor: 1.0000

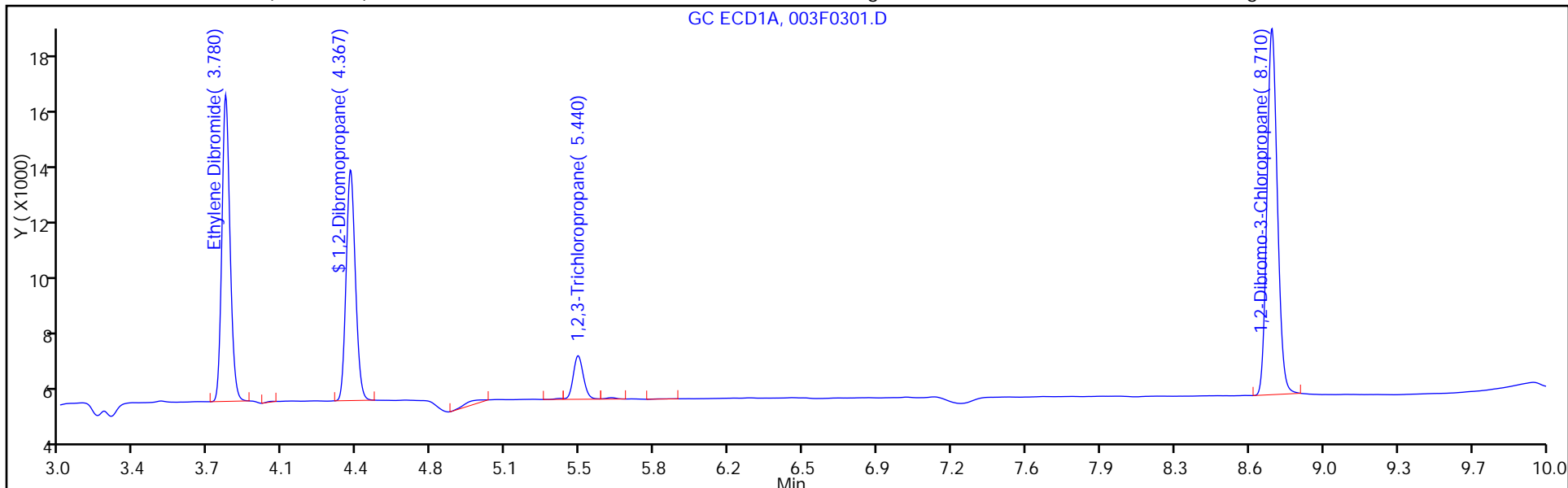
ALS Bottle#: 3

Method: 504.1

Limit Group: GCSV - 8011\_504

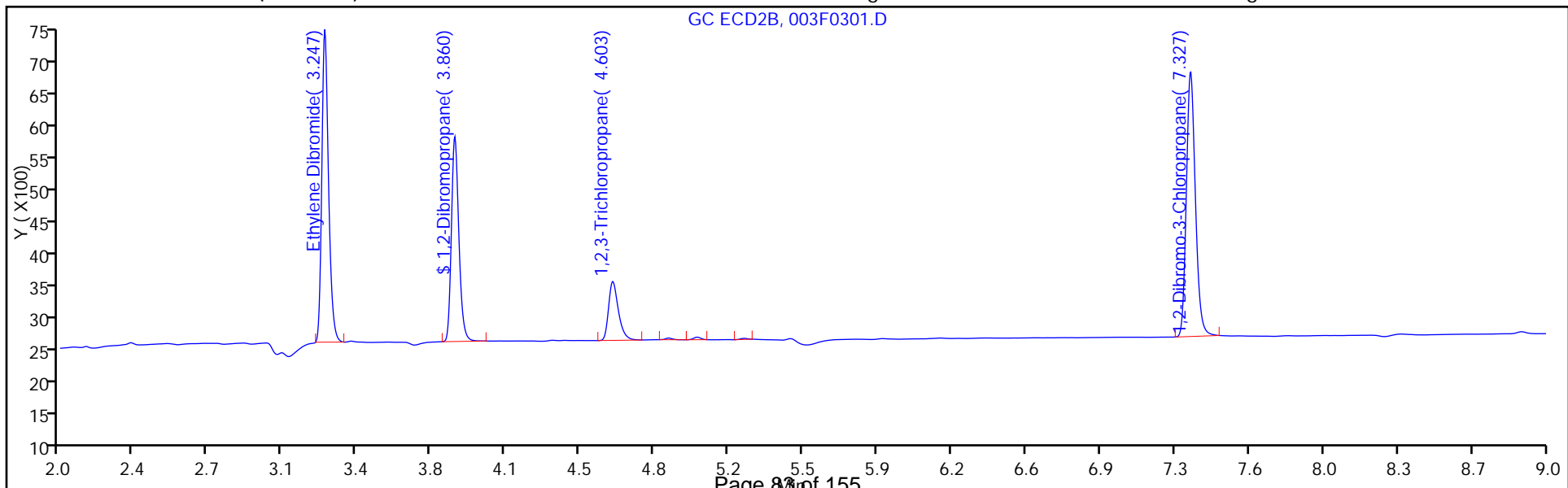
Column: Restex Rtx-502.2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Column: Restek Rtx-VRX (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



TestAmerica Denver  
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\004F0401.D  
 Lims ID: STD6  
 Client ID:  
 Sample Type: IC Calib Level: 6  
 Inject. Date: 27-Oct-2015 16:14:17 ALS Bottle#: 4 Worklist Smp#: 5  
 Injection Vol: 3.0 ul Dil. Factor: 1.0000  
 Sample Info: STD6  
 Operator ID: EER Instrument ID: SGC\_E  
 Sublist: chrom-504.1\*sub1

Method: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\504.1.m  
 Limit Group: GCSV - 8011\_504  
 Method Label: 504.1/8011 EDB+TCP+DBCP in water/soil by DV-GC-0019  
 Last Update: 28-Oct-2015 12:51:40 Calib Date: 27-Oct-2015 17:49:31  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\009F0901.D

Column 1 : Restex Rtx-502.2 ( 0.32 mm) Det: GC ECD1A  
 Column 2 : Restek Rtx-VRX ( 0.32 mm) Det: GC ECD2B  
 Process Host: XAWRK024

First Level Reviewer: redmaner Date: 28-Oct-2015 08:05:13

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

1 Ethylene Dibromide							
1	3.780	3.783	-0.003	18892	0.2971	0.2817	
2	3.247	3.250	-0.003	6967	0.2971	0.2829	
						RPD = 0.42	
\$ 2 1,2-Dibromopropane							
1	4.370	4.370	0.000	15984	0.3000	0.2701	
2	3.860	3.863	-0.003	5034	0.3000	0.2754	
						RPD = 1.92	
3 1,2,3-Trichloropropane							
1	5.440	5.443	-0.003	3237	0.2971	0.2969	
2	4.603	4.607	-0.004	1854	0.2971	0.2771	
						RPD = 6.91	
4 1,2-Dibromo-3-Chloropropane							
1	8.710	8.713	-0.003	28148	0.2971	0.2808	
2	7.327	7.330	-0.003	7927	0.2971	0.3003	
						RPD = 6.69	

Reagents:

504ICALWork\_00100 Amount Added: 520.00 Units: uL  
 504SurrWork\_00149 Amount Added: 105.00 Units: uL

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\004F0401.D

Injection Date: 27-Oct-2015 16:14:17

Instrument ID: SGC\_E

Operator ID: EER

Lims ID: STD6

Worklist Smp#: 5

Client ID:

Injection Vol: 3.0 ul

Dil. Factor: 1.0000

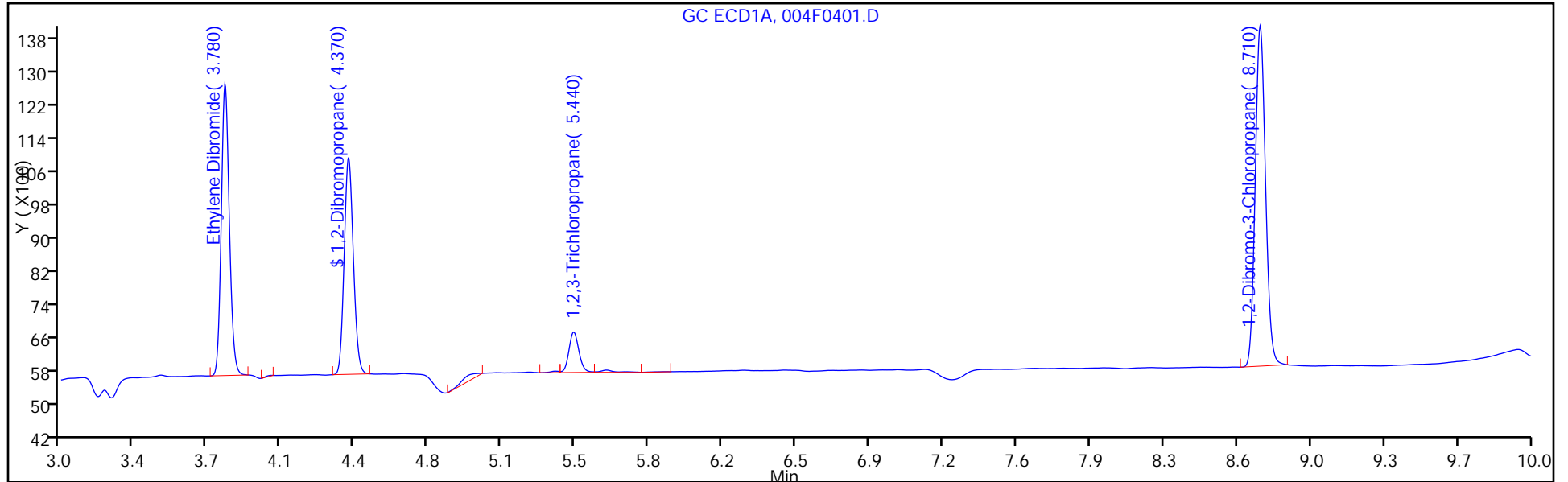
ALS Bottle#: 4

Method: 504.1

Limit Group: GCSV - 8011\_504

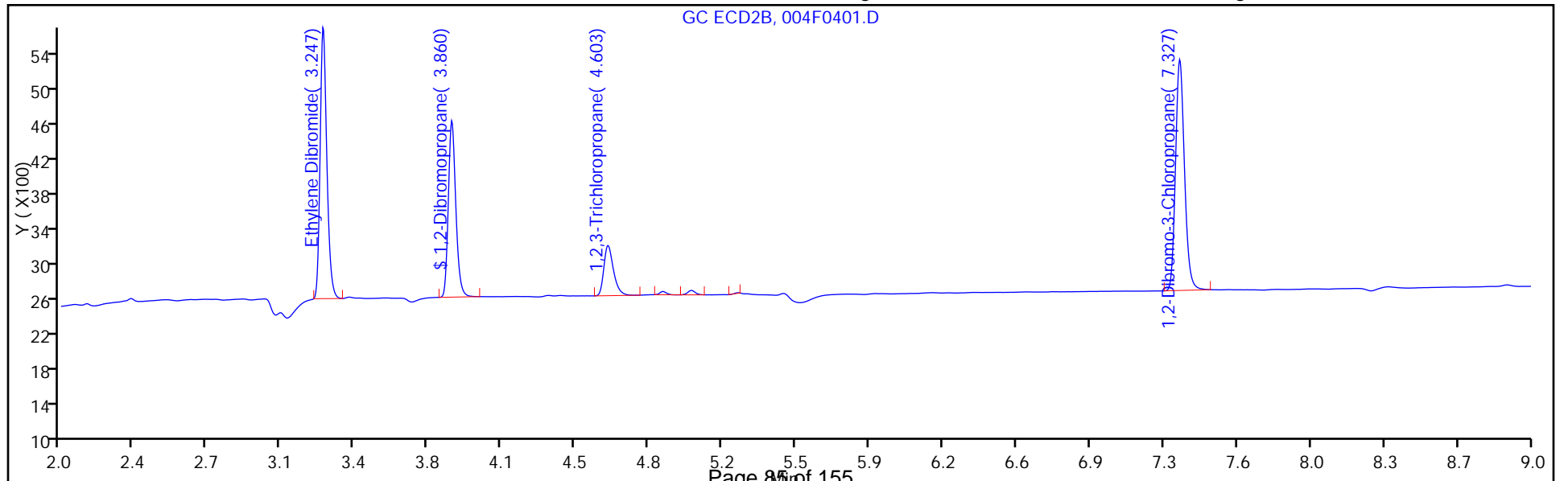
Column: Restex Rtx-502.2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Column: Restek Rtx-VRX (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



TestAmerica Denver  
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\005F0501.D  
 Lims ID: STD5  
 Client ID:  
 Sample Type: IC Calib Level: 5  
 Inject. Date: 27-Oct-2015 16:33:28 ALS Bottle#: 5 Worklist Smp#: 6  
 Injection Vol: 3.0 ul Dil. Factor: 1.0000  
 Sample Info: STD5  
 Operator ID: EER Instrument ID: SGC\_E  
 Sublist: chrom-504.1\*sub1

Method: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\504.1.m  
 Limit Group: GCSV - 8011\_504  
 Method Label: 504.1/8011 EDB+TCP+DBCP in water/soil by DV-GC-0019  
 Last Update: 28-Oct-2015 12:51:46 Calib Date: 27-Oct-2015 17:49:31  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\009F0901.D  
 Column 1 : Restex Rtx-502.2 ( 0.32 mm) Det: GC ECD1A  
 Column 2 : Restek Rtx-VRX ( 0.32 mm) Det: GC ECD2B  
 Process Host: XAWRK024

First Level Reviewer: redmaner Date: 28-Oct-2015 08:05:24

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

1 Ethylene Dibromide							
1	3.780	3.783	-0.003	13621	0.2000	0.2016	
2	3.250	3.250	0.000	4999	0.2000	0.2017	
						RPD = 0.08	
\$ 2 1,2-Dibromopropane							
1	4.370	4.370	0.000	11479	0.2000	0.1940	
2	3.860	3.863	-0.003	3611	0.2000	0.1975	
						RPD = 1.80	
3 1,2,3-Trichloropropane							
1	5.443	5.443	0.000	2324	0.2000	0.2119	
2	4.607	4.607	0.000	1345	0.2000	0.2010	
						RPD = 5.25	
4 1,2-Dibromo-3-Chloropropane							
1	8.710	8.713	-0.003	19905	0.2000	0.1979	
2	7.327	7.330	-0.003	5620	0.2000	0.2115	
						RPD = 6.60	

Reagents:

504ICALWork\_00100 Amount Added: 350.00 Units: uL  
 504SurrWork\_00149 Amount Added: 70.00 Units: uL

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\005F0501.D

Injection Date: 27-Oct-2015 16:33:28

Instrument ID: SGC\_E

Operator ID: EER

Lims ID: STD5

Worklist Smp#: 6

Client ID:

Injection Vol: 3.0 ul

Dil. Factor: 1.0000

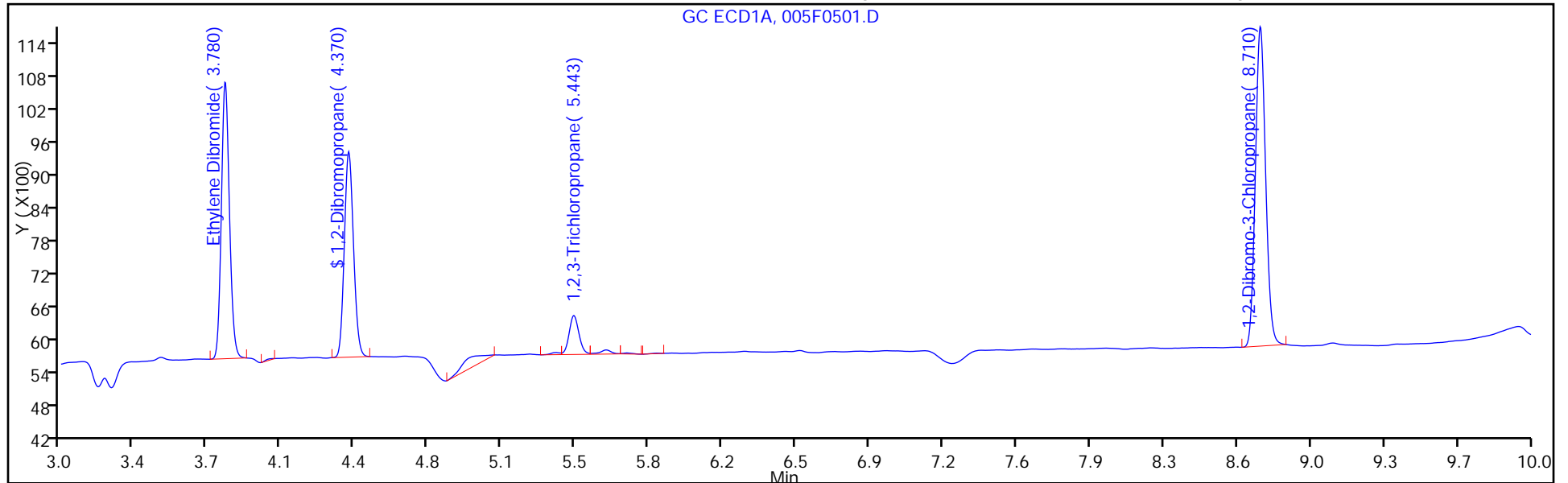
ALS Bottle#: 5

Method: 504.1

Limit Group: GCSV - 8011\_504

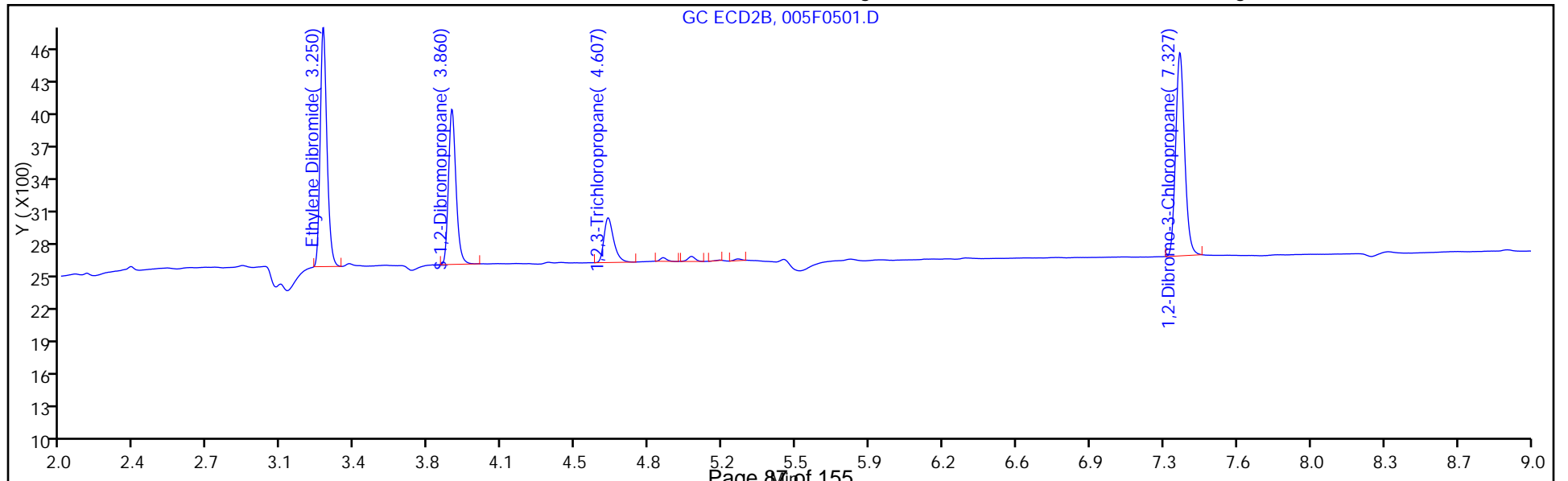
Column: Restex Rtx-502.2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Column: Restek Rtx-VRX (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



TestAmerica Denver  
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\006F0601.D  
 Lims ID: STD4RT  
 Client ID:  
 Sample Type: ICRT Calib Level: 4  
 Inject. Date: 27-Oct-2015 16:52:30 ALS Bottle#: 6 Worklist Smp#: 7  
 Injection Vol: 3.0 ul Dil. Factor: 1.0000  
 Sample Info: STD4  
 Operator ID: EER Instrument ID: SGC\_E  
 Sublist: chrom-504.1\*sub1

Method: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\504.1.m  
 Limit Group: GCSV - 8011\_504  
 Method Label: 504.1/8011 EDB+TCP+DBCP in water/soil by DV-GC-0019  
 Last Update: 28-Oct-2015 12:51:19 Calib Date: 27-Oct-2015 17:49:31  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\009F0901.D

Column 1 : Restex Rtx-502.2 ( 0.32 mm) Det: GC ECD1A  
 Column 2 : Restek Rtx-VRX ( 0.32 mm) Det: GC ECD2B  
 Process Host: XAWRK024

First Level Reviewer: cokleyc Date: 28-Oct-2015 12:51:19

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

1 Ethylene Dibromide							
1	3.783	3.783	0.000	7398	0.1000	0.1069	
2	3.250	3.250	0.000	2686	0.1000	0.1063	
						RPD = 0.58	
\$ 2 1,2-Dibromopropane							
1	4.370	4.370	0.000	6146	0.1000	0.1039	
2	3.863	3.863	0.000	1911	0.1000	0.1045	
						RPD = 0.64	
3 1,2,3-Trichloropropane							
1	5.443	5.443	0.000	1205	0.1000	0.1076	
2	4.607	4.607	0.000	660	0.1000	0.0986	
						RPD = 8.70	
4 1,2-Dibromo-3-Chloropropane							
1	8.713	8.713	0.000	10543	0.1000	0.1038	
2	7.330	7.330	0.000	2973	0.1000	0.1095	
						RPD = 5.36	

Reagents:

504ICALWork\_00100 Amount Added: 175.00 Units: uL  
 504SurrWork\_00149 Amount Added: 35.00 Units: uL



TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\006F0601.D

Injection Date: 27-Oct-2015 16:52:30

Instrument ID: SGC\_E

Operator ID: EER

Lims ID: STD4RT

Worklist Smp#: 7

Client ID:

Injection Vol: 3.0 ul

Dil. Factor: 1.0000

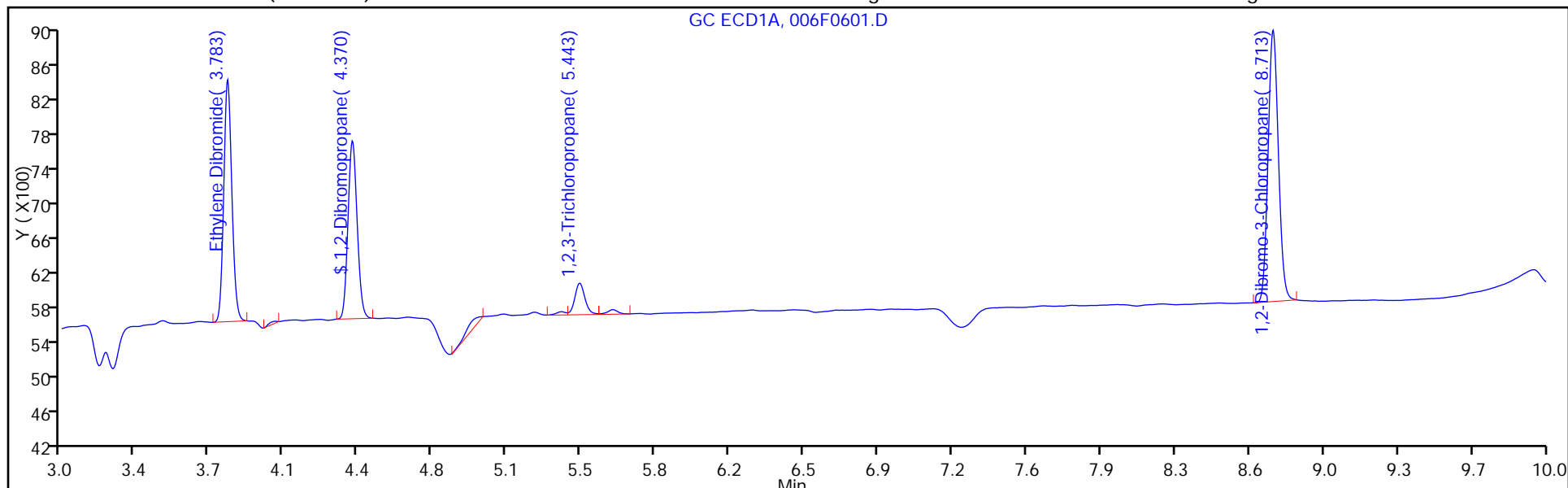
ALS Bottle#: 6

Method: 504.1

Limit Group: GCSV - 8011\_504

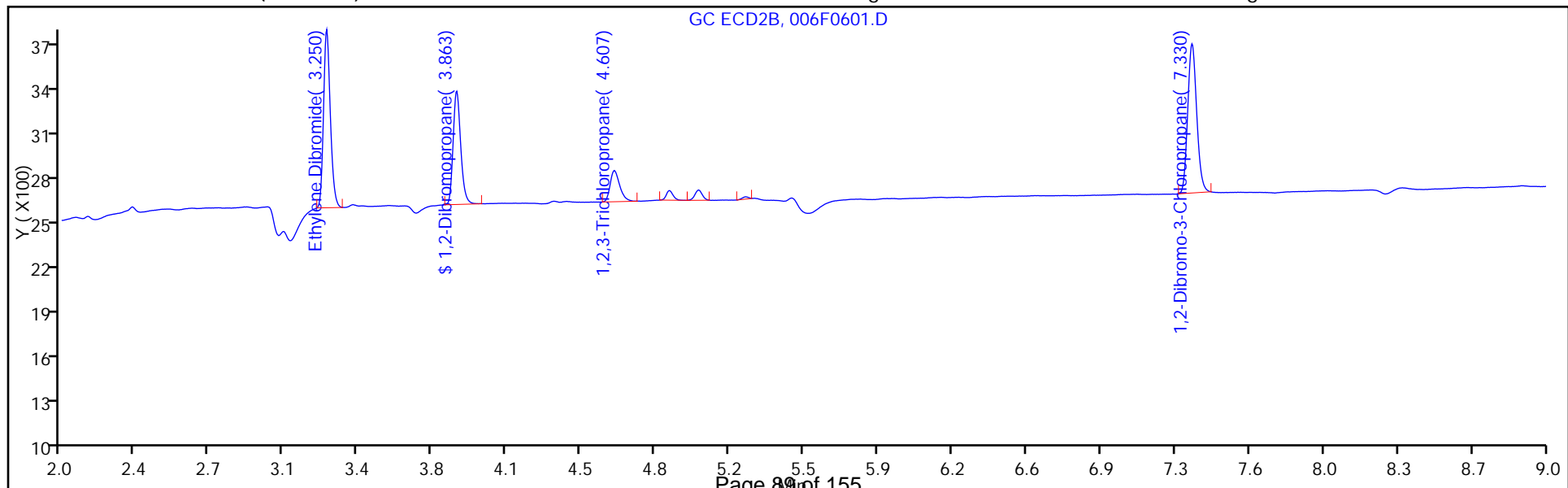
Column: Restex Rtx-502.2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Column: Restek Rtx-VRX (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



TestAmerica Denver  
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\007F0701.D  
 Lims ID: STD3  
 Client ID:  
 Sample Type: IC Calib Level: 3  
 Inject. Date: 27-Oct-2015 17:11:34 ALS Bottle#: 7 Worklist Smp#: 8  
 Injection Vol: 3.0 ul Dil. Factor: 1.0000  
 Sample Info: STD3  
 Operator ID: EER Instrument ID: SGC\_E  
 Sublist: chrom-504.1\*sub1

Method: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\504.1.m  
 Limit Group: GCSV - 8011\_504  
 Method Label: 504.1/8011 EDB+TCP+DBCP in water/soil by DV-GC-0019  
 Last Update: 28-Oct-2015 12:51:54 Calib Date: 27-Oct-2015 17:49:31  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\009F0901.D  
 Column 1 : Restex Rtx-502.2 ( 0.32 mm) Det: GC ECD1A  
 Column 2 : Restek Rtx-VRX ( 0.32 mm) Det: GC ECD2B  
 Process Host: XAWRK024

First Level Reviewer: redmaner Date: 28-Oct-2015 08:05:45

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

1 Ethylene Dibromide							
1	3.783	3.783	0.000	4242	0.0503	0.0590	
2	3.250	3.250	0.000	1519	0.0503	0.0582	
						RPD = 1.30	
\$ 2 1,2-Dibromopropane							
1	4.373	4.370	0.003	3356	0.0500	0.0567	
2	3.863	3.863	0.000	1032	0.0500	0.0564	
						RPD = 0.47	
3 1,2,3-Trichloropropane							
1	5.443	5.443	0.000	681	0.0503	0.0588	
2	4.607	4.607	0.000	378	0.0503	0.0565	
						RPD = 3.98	
4 1,2-Dibromo-3-Chloropropane							
1	8.713	8.713	0.000	5875	0.0503	0.0569	
2	7.330	7.330	0.000	1664	0.0503	0.0591	
						RPD = 3.89	

Reagents:

504ICALWork\_00100 Amount Added: 88.00 Units: uL  
 504SurrWork\_00149 Amount Added: 17.50 Units: uL

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\007F0701.D

Injection Date: 27-Oct-2015 17:11:34

Instrument ID: SGC\_E

Operator ID: EER

Lims ID: STD3

Worklist Smp#: 8

Client ID:

Injection Vol: 3.0 ul

Dil. Factor: 1.0000

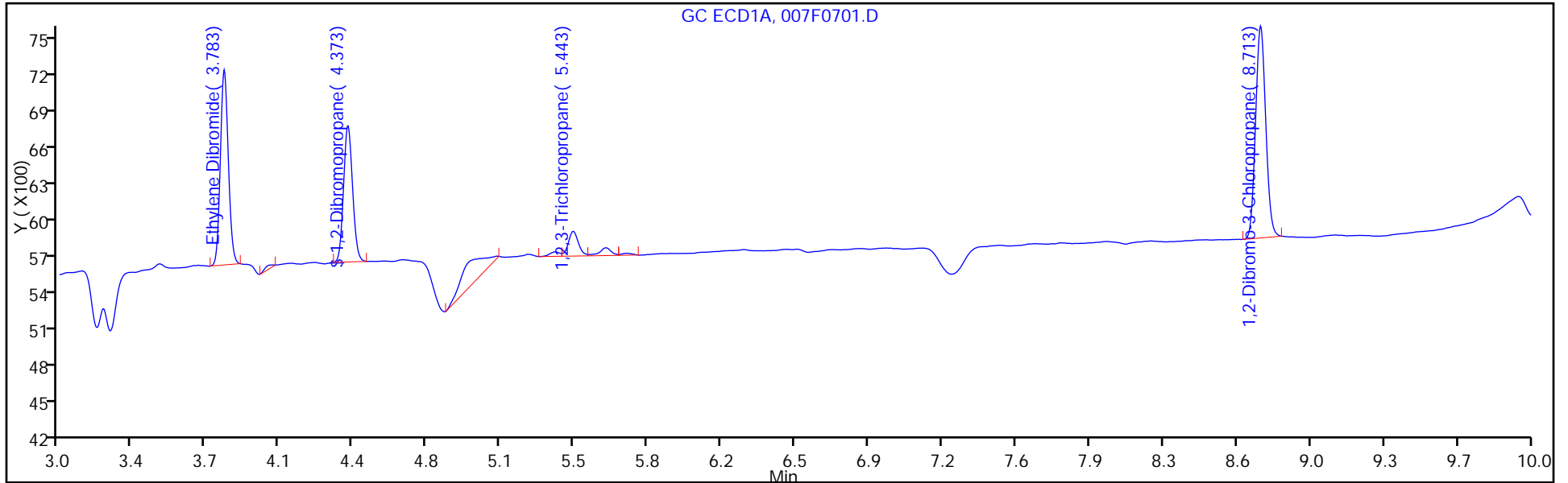
ALS Bottle#: 7

Method: 504.1

Limit Group: GCSV - 8011\_504

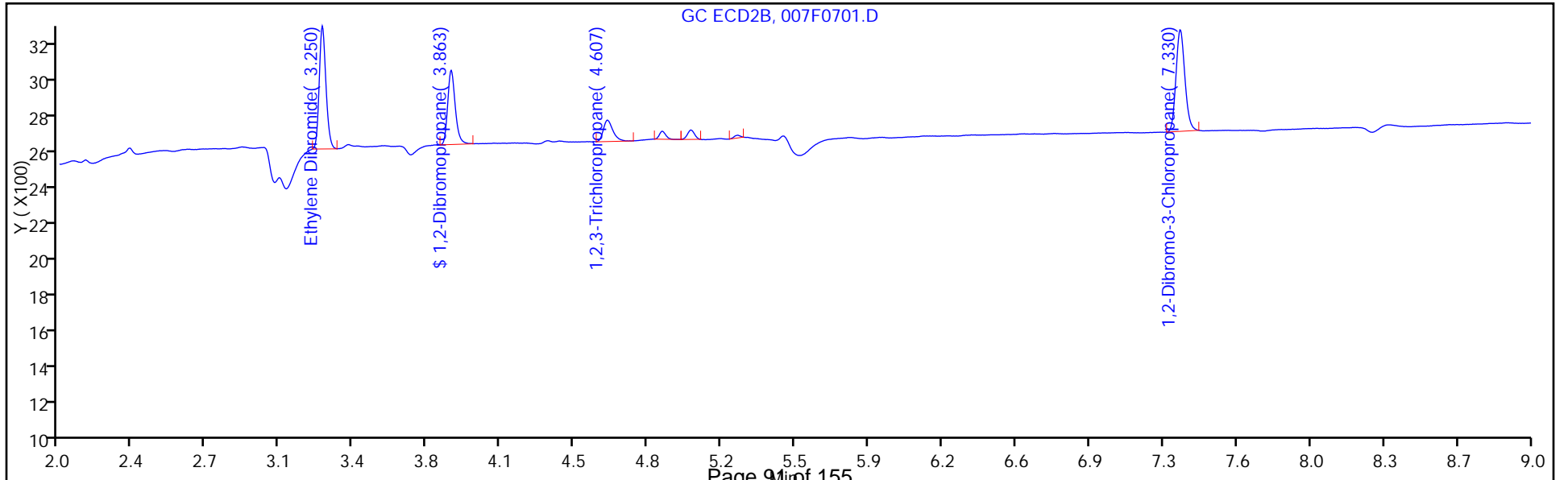
Column: Restex Rtx-502.2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Column: Restek Rtx-VRX (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



TestAmerica Denver  
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\008F0801.D  
 Lims ID: STD2  
 Client ID:  
 Sample Type: IC Calib Level: 2  
 Inject. Date: 27-Oct-2015 17:30:34 ALS Bottle#: 8 Worklist Smp#: 9  
 Injection Vol: 3.0 ul Dil. Factor: 1.0000  
 Sample Info: STD2  
 Operator ID: EER Instrument ID: SGC\_E  
 Sublist: chrom-504.1\*sub1

Method: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\504.1.m  
 Limit Group: GCSV - 8011\_504  
 Method Label: 504.1/8011 EDB+TCP+DBCP in water/soil by DV-GC-0019  
 Last Update: 28-Oct-2015 12:52:01 Calib Date: 27-Oct-2015 17:49:31  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\009F0901.D

Column 1 : Restex Rtx-502.2 ( 0.32 mm) Det: GC ECD1A  
 Column 2 : Restek Rtx-VRX ( 0.32 mm) Det: GC ECD2B  
 Process Host: XAWRK024

First Level Reviewer: redmaner Date: 28-Oct-2015 08:05:57

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

1 Ethylene Dibromide							
1	3.783	3.783	0.000	1715	0.0200	0.0205	
2	3.250	3.250	0.000	600	0.0200	0.0203	
						RPD = 1.17	
\$ 2 1,2-Dibromopropane							
1	4.373	4.370	0.003	1220	0.0200	0.0206	
2	3.863	3.863	0.000	373	0.0200	0.0204	
						RPD = 1.05	
3 1,2,3-Trichloropropane							
1	5.443	5.443	0.000	269	0.0200	0.0204	
2	4.607	4.607	0.000	140	0.0200	0.0209	
						RPD = 2.52	
4 1,2-Dibromo-3-Chloropropane							
1	8.713	8.713	0.000	2312	0.0200	0.0210	
2	7.333	7.330	0.003	657	0.0200	0.0204	
						RPD = 3.33	

Reagents:

504ICALWork\_00100 Amount Added: 35.00 Units: uL  
 504SurrWork\_00149 Amount Added: 7.00 Units: uL

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\008F0801.D

Injection Date: 27-Oct-2015 17:30:34

Instrument ID: SGC\_E

Operator ID: EER

Lims ID: STD2

Worklist Smp#: 9

Client ID:

Injection Vol: 3.0 ul

Dil. Factor: 1.0000

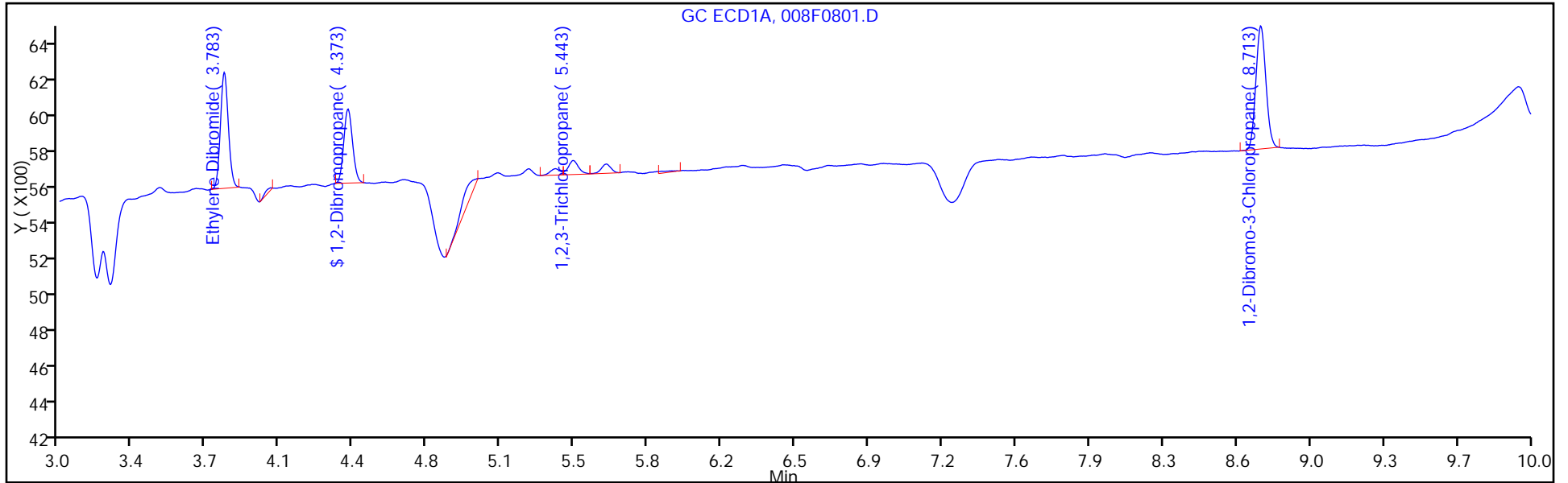
ALS Bottle#: 8

Method: 504.1

Limit Group: GCSV - 8011\_504

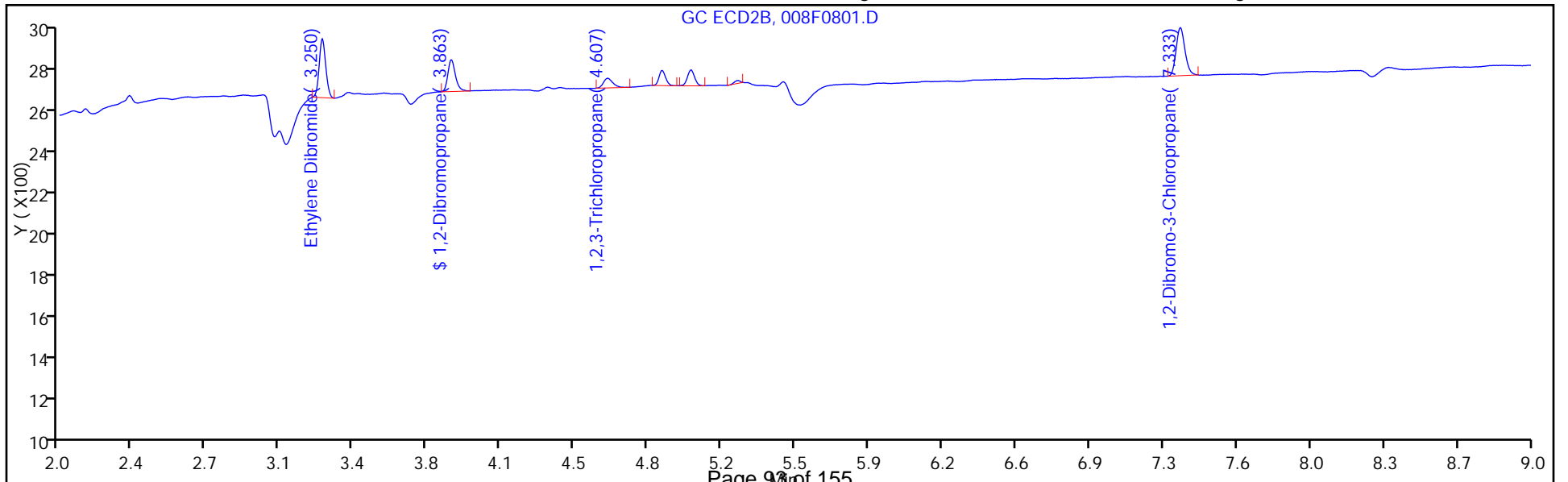
Column: Restex Rtx-502.2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Column: Restek Rtx-VRX (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



TestAmerica Denver  
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\009F0901.D  
 Lims ID: STD1  
 Client ID:  
 Sample Type: IC Calib Level: 1  
 Inject. Date: 27-Oct-2015 17:49:31 ALS Bottle#: 9 Worklist Smp#: 10  
 Injection Vol: 3.0 ul Dil. Factor: 1.0000  
 Sample Info: STD1  
 Operator ID: EER Instrument ID: SGC\_E  
 Sublist: chrom-504.1\*sub1

Method: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\504.1.m  
 Limit Group: GCSV - 8011\_504  
 Method Label: 504.1/8011 EDB+TCP+DBCP in water/soil by DV-GC-0019  
 Last Update: 28-Oct-2015 12:52:05 Calib Date: 27-Oct-2015 17:49:31  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\009F0901.D  
 Column 1 : Restex Rtx-502.2 ( 0.32 mm) Det: GC ECD1A  
 Column 2 : Restek Rtx-VRX ( 0.32 mm) Det: GC ECD2B  
 Process Host: XAWRK024

First Level Reviewer: redmaner Date: 28-Oct-2015 08:06:30

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

1 Ethylene Dibromide							
1	3.783	3.783	0.000	875	0.0100	0.007759	
2	3.250	3.250	0.000	303	0.0100	0.008044	
						RPD = 3.60	
\$ 2 1,2-Dibromopropane							
1	4.373	4.370	0.003	636	0.0100	0.0107	
2	3.863	3.863	0.000	189	0.0100	0.0103	
						RPD = 3.89	
3 1,2,3-Trichloropropane							
1	5.443	5.443	0.000	128	0.0100	0.007266	
2	4.610	4.607	0.003	68	0.0100	0.0102	
						RPD = 33.25	
4 1,2-Dibromo-3-Chloropropane							
1	8.717	8.713	0.004	1162	0.0100	0.009484	
2	7.333	7.330	0.003	311	0.0100	0.007035	
						RPD = 29.65	

Reagents:

504ICALWork\_00100 Amount Added: 17.50 Units: uL  
 504SurrWork\_00149 Amount Added: 3.50 Units: uL

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\009F0901.D

Injection Date: 27-Oct-2015 17:49:31

Instrument ID: SGC\_E

Operator ID: EER

Lims ID: STD1

Worklist Smp#: 10

Client ID:

Injection Vol: 3.0 ul

Dil. Factor: 1.0000

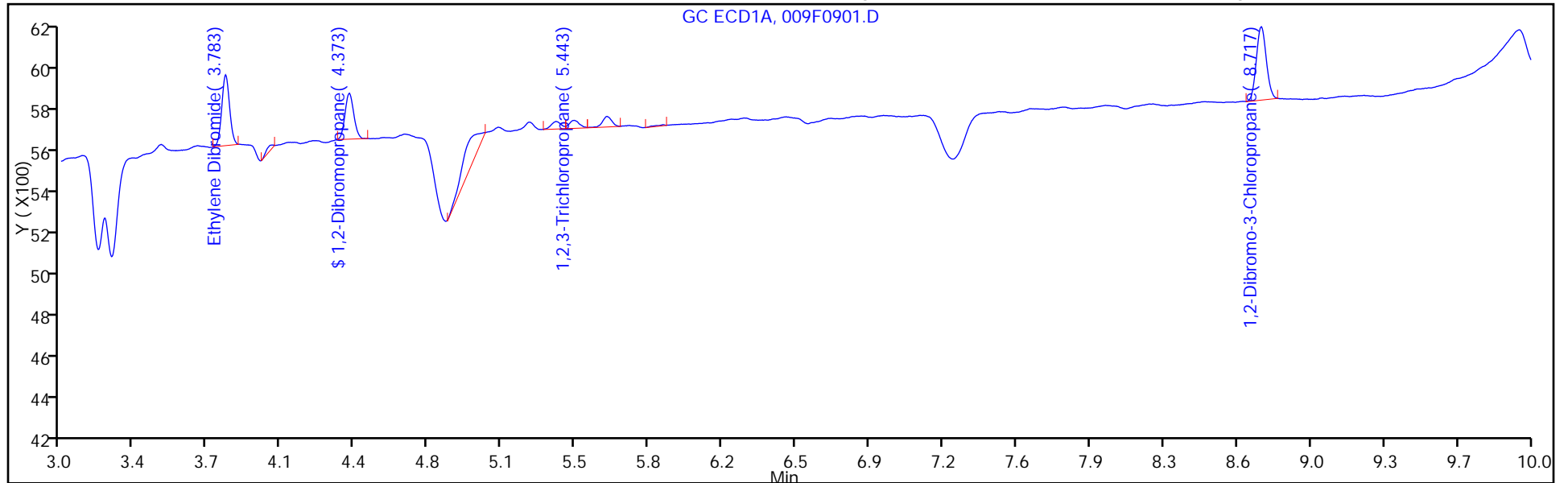
ALS Bottle#: 9

Method: 504.1

Limit Group: GCSV - 8011\_504

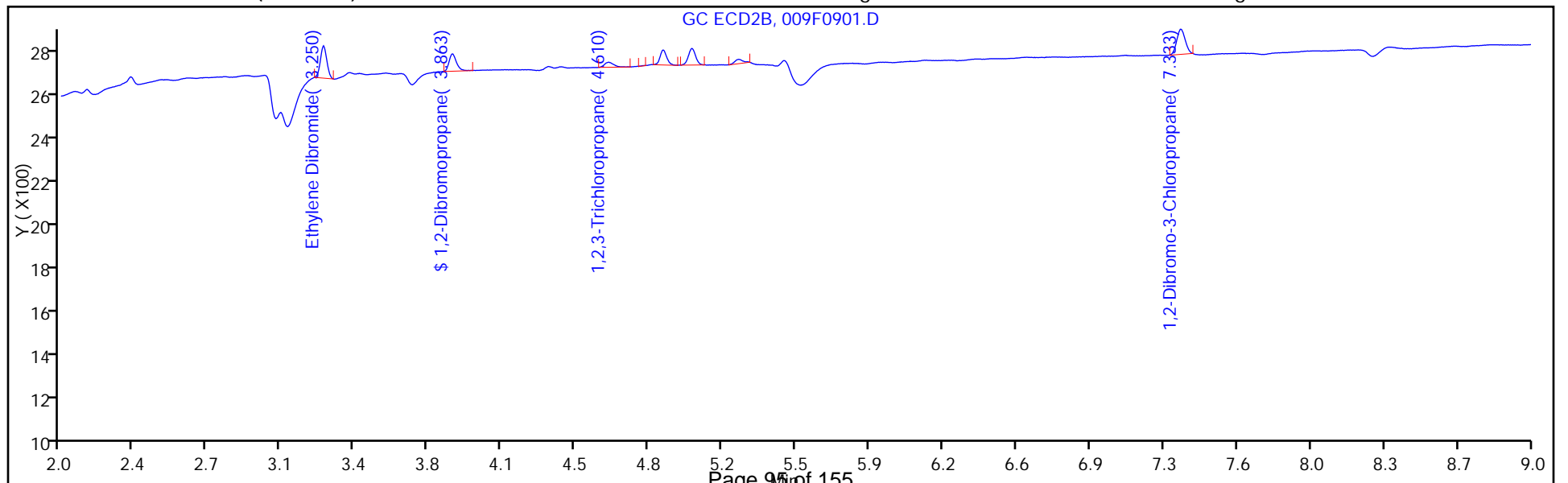
Column: Restex Rtx-502.2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Column: Restek Rtx-VRX (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



FORM VII  
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-76268-3  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 280-301315/11 Calibration Date: 10/27/2015 18:08  
 Instrument ID: SGC\_E Calib Start Date: 10/27/2015 15:55  
 GC Column: RTX 502.2 ID: 0.32 (mm) Calib End Date: 10/27/2015 17:49  
 Lab File ID: 010F1001.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethylene Dibromide	Lin1		64940		0.241	0.250	-3.5	20.0
1,2,3-Trichloropropane	Lin1		11584		0.265	0.250	6.1	20.0
1,2-Dibromo-3-Chloropropane	Lin2		94204		0.235	0.250	-6.2	20.0
1,2-Dibromopropane	Ave	59174	61340		0.104	0.100	3.7	20.0



FORM VII  
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-76268-3  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 280-301315/11 Calibration Date: 10/27/2015 18:08  
 Instrument ID: SGC\_E Calib Start Date: 10/27/2015 15:55  
 GC Column: RTX 502.2 ID: 0.32 (mm) Calib End Date: 10/27/2015 17:49  
 Lab File ID: 010F1001.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethylene Dibromide	3.78	3.75	3.81
1,2,3-Trichloropropane	5.44	5.41	5.47
1,2-Dibromo-3-Chloropropane	8.71	8.68	8.74
1,2-Dibromopropane	4.37	4.34	4.40

TestAmerica Denver  
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\010F1001.D  
 Lims ID: ICV  
 Client ID:  
 Sample Type: ICV  
 Inject. Date: 27-Oct-2015 18:08:26 ALS Bottle#: 10 Worklist Smp#: 11  
 Injection Vol: 3.0 ul Dil. Factor: 1.0000  
 Sample Info: ICV  
 Operator ID: EER Instrument ID: SGC\_E  
 Sublist: chrom-504.1\*sub1

Method: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\504.1.m  
 Limit Group: GCSV - 8011\_504  
 Method Label: 504.1/8011 EDB+TCP+DBCP in water/soil by DV-GC-0019  
 Last Update: 28-Oct-2015 14:22:06 Calib Date: 27-Oct-2015 17:49:31  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\009F0901.D

Column 1 : Restex Rtx-502.2 ( 0.32 mm) Det: GC ECD1A  
 Column 2 : Restek Rtx-VRX ( 0.32 mm) Det: GC ECD2B  
 Process Host: XAWRK024

First Level Reviewer: redmaner Date: 28-Oct-2015 08:06:49

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

1 Ethylene Dibromide							
1	3.783	3.783	0.000	16235	0.2500	0.2413	
2	3.250	3.250	0.000	5982	0.2500	0.2422	
						RPD = 0.39	
\$ 2 1,2-Dibromopropane							
1	4.373	4.370	0.003	6134	0.1000	0.1037	
2	3.863	3.863	0.000	1916	0.1000	0.1048	
						RPD = 1.09	
3 1,2,3-Trichloropropane							
1	5.443	5.443	0.000	2896	0.2500	0.2652	
2	4.607	4.607	0.000	1656	0.2500	0.2475	
						RPD = 6.89	
4 1,2-Dibromo-3-Chloropropane							
1	8.713	8.713	0.000	23551	0.2500	0.2346	
2	7.330	7.330	0.000	6666	0.2500	0.2517	
						RPD = 7.04	

Reagents:

504SurrWork\_00149 Amount Added: 35.00 Units: uL  
 504LCSWork\_00050 Amount Added: 35.00 Units: uL

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\010F1001.D

Injection Date: 27-Oct-2015 18:08:26

Instrument ID: SGC\_E

Operator ID: EER

Lims ID: ICV

Worklist Smp#: 11

Client ID:

Injection Vol: 3.0 ul

Dil. Factor: 1.0000

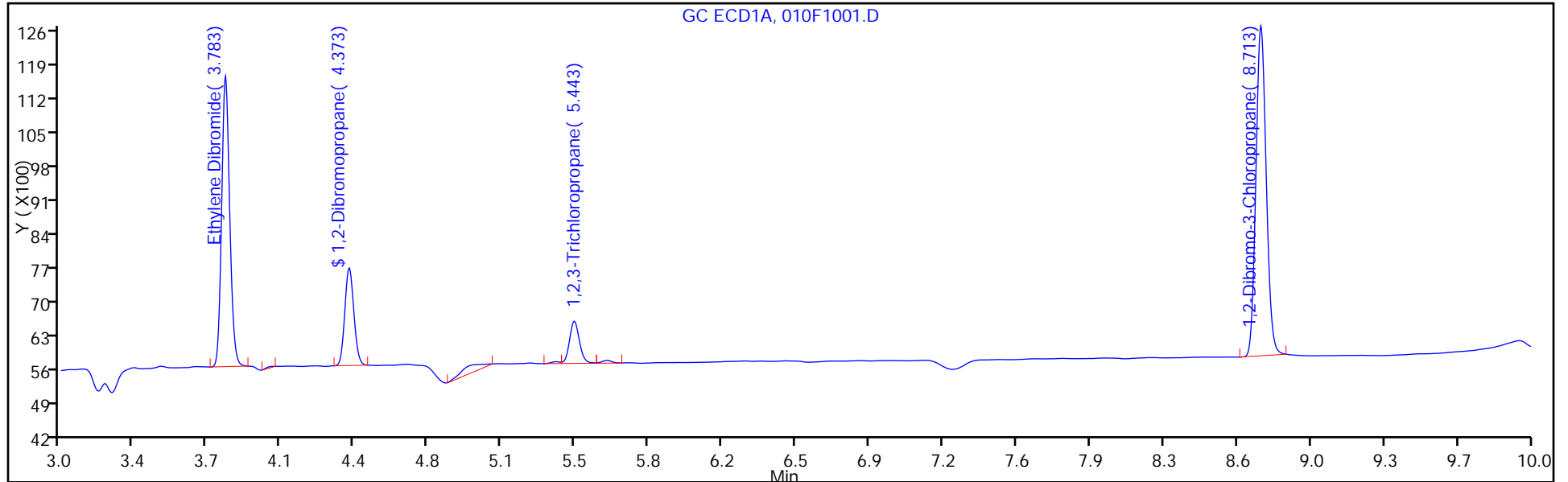
ALS Bottle#: 10

Method: 504.1

Limit Group: GCSV - 8011\_504

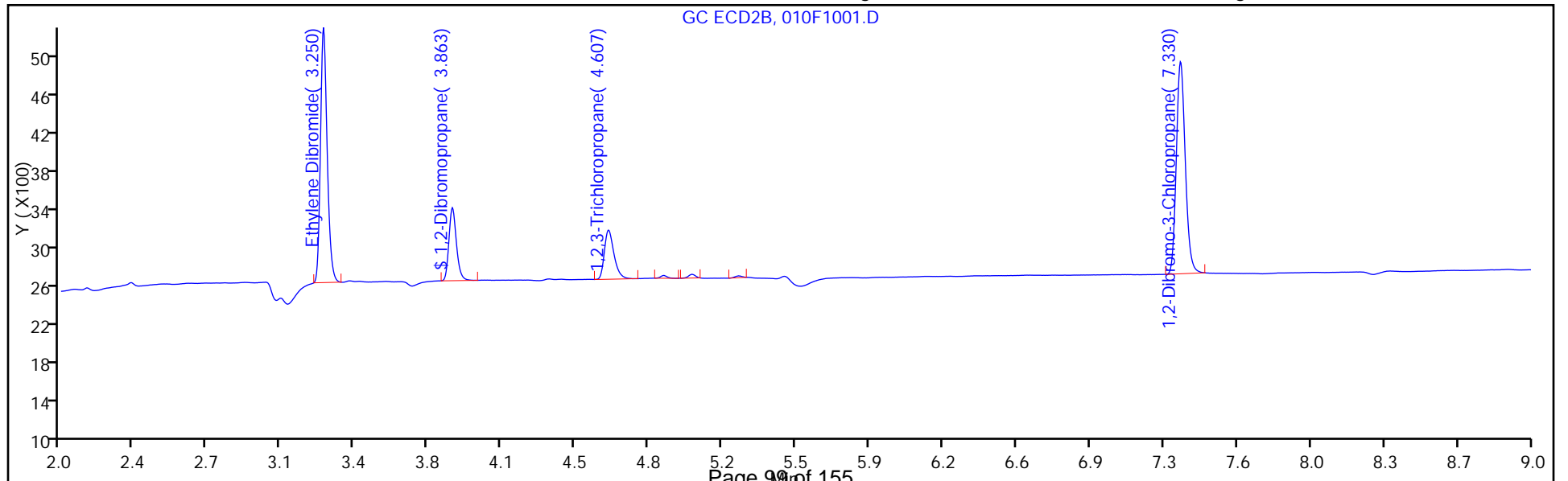
Column: Restex Rtx-502.2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Column: Restek Rtx-VRX (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



FORM VII  
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-76268-3  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 280-301315/11 Calibration Date: 10/27/2015 18:08  
 Instrument ID: SGC\_E Calib Start Date: 10/27/2015 15:55  
 GC Column: RTX-VRX ID: 0.32 (mm) Calib End Date: 10/27/2015 17:49  
 Lab File ID: 010F1001.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethylene Dibromide	Lin1		23928		0.242	0.250	-3.1	20.0
1,2,3-Trichloropropane	Ave	6691	6624		0.248	0.250	-1.0	20.0
1,2-Dibromo-3-Chloropropane	Lin1		26664		0.252	0.250	0.7	20.0
1,2-Dibromopropane	Ave	18282	19160		0.105	0.100	4.8	20.0

FORM VII  
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-76268-3  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 280-301315/11 Calibration Date: 10/27/2015 18:08  
 Instrument ID: SGC\_E Calib Start Date: 10/27/2015 15:55  
 GC Column: RTX-VRX ID: 0.32 (mm) Calib End Date: 10/27/2015 17:49  
 Lab File ID: 010F1001.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethylene Dibromide	3.25	3.22	3.28
1,2,3-Trichloropropane	4.61	4.58	4.64
1,2-Dibromo-3-Chloropropane	7.33	7.30	7.36
1,2-Dibromopropane	3.86	3.83	3.89

TestAmerica Denver  
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\010F1001.D  
 Lims ID: ICV  
 Client ID:  
 Sample Type: ICV  
 Inject. Date: 27-Oct-2015 18:08:26 ALS Bottle#: 10 Worklist Smp#: 11  
 Injection Vol: 3.0 ul Dil. Factor: 1.0000  
 Sample Info: ICV  
 Operator ID: EER Instrument ID: SGC\_E  
 Sublist: chrom-504.1\*sub1

Method: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\504.1.m  
 Limit Group: GCSV - 8011\_504  
 Method Label: 504.1/8011 EDB+TCP+DBCP in water/soil by DV-GC-0019  
 Last Update: 28-Oct-2015 14:22:06 Calib Date: 27-Oct-2015 17:49:31  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\009F0901.D

Column 1 : Restex Rtx-502.2 ( 0.32 mm) Det: GC ECD1A  
 Column 2 : Restek Rtx-VRX ( 0.32 mm) Det: GC ECD2B  
 Process Host: XAWRK024

First Level Reviewer: redmaner Date: 28-Oct-2015 08:06:49

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

1 Ethylene Dibromide							
1	3.783	3.783	0.000	16235	0.2500	0.2413	
2	3.250	3.250	0.000	5982	0.2500	0.2422	
						RPD = 0.39	
\$ 2 1,2-Dibromopropane							
1	4.373	4.370	0.003	6134	0.1000	0.1037	
2	3.863	3.863	0.000	1916	0.1000	0.1048	
						RPD = 1.09	
3 1,2,3-Trichloropropane							
1	5.443	5.443	0.000	2896	0.2500	0.2652	
2	4.607	4.607	0.000	1656	0.2500	0.2475	
						RPD = 6.89	
4 1,2-Dibromo-3-Chloropropane							
1	8.713	8.713	0.000	23551	0.2500	0.2346	
2	7.330	7.330	0.000	6666	0.2500	0.2517	
						RPD = 7.04	

Reagents:

504SurrWork\_00149 Amount Added: 35.00 Units: uL  
 504LCSWork\_00050 Amount Added: 35.00 Units: uL

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\010F1001.D

Injection Date: 27-Oct-2015 18:08:26

Instrument ID: SGC\_E

Operator ID: EER

Lims ID: ICV

Worklist Smp#: 11

Client ID:

Injection Vol: 3.0 ul

Dil. Factor: 1.0000

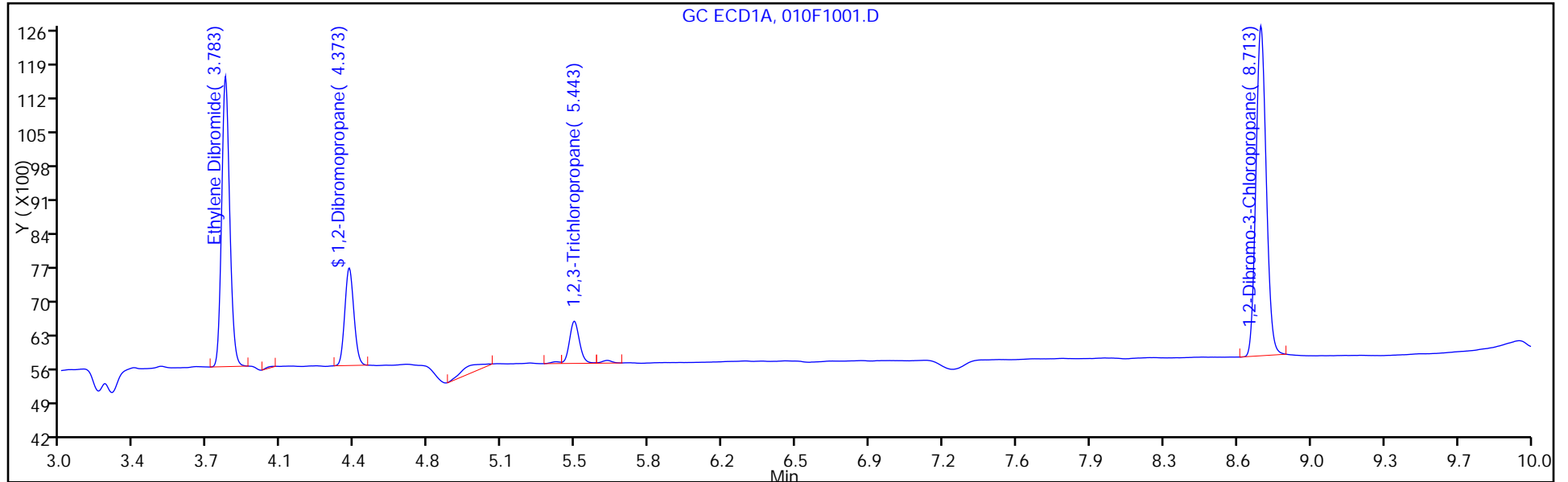
ALS Bottle#: 10

Method: 504.1

Limit Group: GCSV - 8011\_504

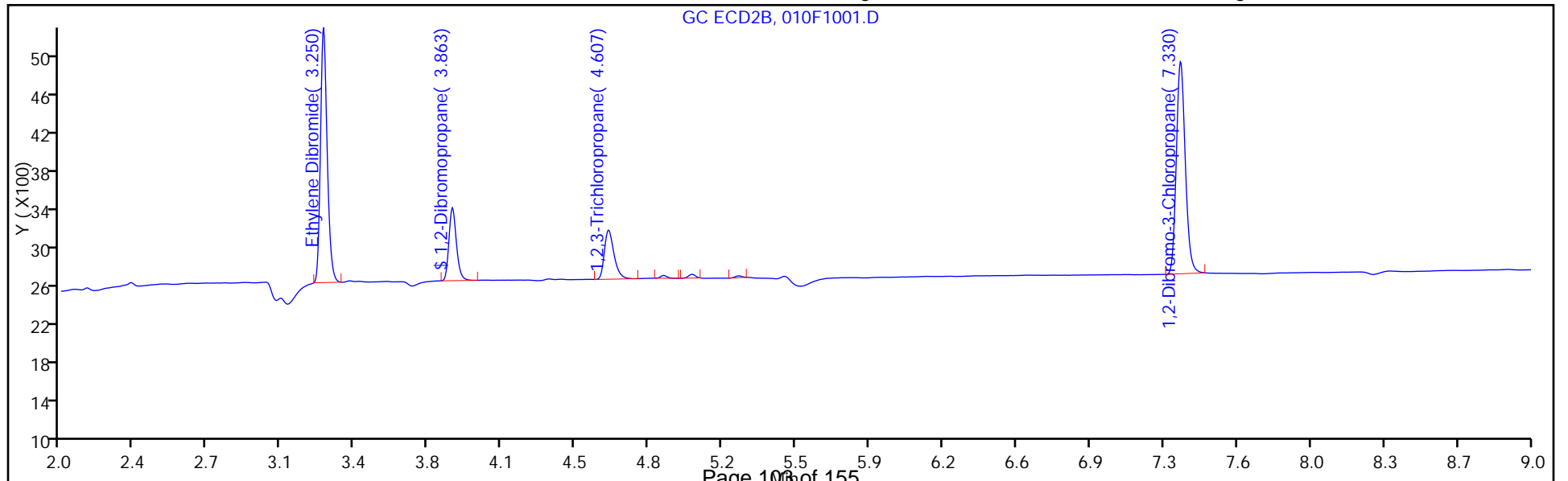
Column: Restex Rtx-502.2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Column: Restek Rtx-VRX (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



FORM VII  
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-76268-3  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVRT 280-302773/5 Calibration Date: 11/05/2015 16:18  
 Instrument ID: SGC\_E Calib Start Date: 10/27/2015 15:55  
 GC Column: RTX 502.2 ID: 0.32 (mm) Calib End Date: 10/27/2015 17:49  
 Lab File ID: 003F0201.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethylene Dibromide	Lin1		76870		0.111	0.100	11.3	20.0
1,2,3-Trichloropropane	Lin1		12480		0.112	0.100	11.6	20.0
1,2-Dibromo-3-Chloropropane	Lin2		108610		0.107	0.100	7.0	20.0
1,2-Dibromopropane	Ave	59174	63070		0.107	0.100	6.6	20.0



FORM VII  
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-76268-3  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVRT 280-302773/5 Calibration Date: 11/05/2015 16:18  
 Instrument ID: SGC\_E Calib Start Date: 10/27/2015 15:55  
 GC Column: RTX 502.2 ID: 0.32 (mm) Calib End Date: 10/27/2015 17:49  
 Lab File ID: 003F0201.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethylene Dibromide	3.77	3.74	3.80
1,2,3-Trichloropropane	5.43	5.40	5.46
1,2-Dibromo-3-Chloropropane	8.70	8.67	8.73
1,2-Dibromopropane	4.36	4.33	4.39

TestAmerica Denver  
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151105-41177.b\003F0201.D  
 Lims ID: CCVRT  
 Client ID:  
 Sample Type: CCVRT  
 Inject. Date: 05-Nov-2015 16:18:40 ALS Bottle#: 3 Worklist Smp#: 5  
 Injection Vol: 3.0 ul Dil. Factor: 1.0000  
 Sample Info: ccvrt  
 Operator ID: CDC Instrument ID: SGC\_E  
 Sublist: chrom-504.1\*sub1

Method: \\ChromNA\Denver\ChromData\SGC\_E\20151105-41177.b\504.1.m  
 Limit Group: GCSV - 8011\_504  
 Method Label: 504.1/8011 EDB+TCP+DBCP in water/soil by DV-GC-0019  
 Last Update: 09-Nov-2015 17:47:00 Calib Date: 27-Oct-2015 17:49:31  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\009F0901.D

Column 1 : Restex Rtx-502.2 ( 0.32 mm) Det: GC ECD1A  
 Column 2 : Restek Rtx-VRX ( 0.32 mm) Det: GC ECD2B  
 Process Host: XAWRK048

First Level Reviewer: cokleyc Date: 05-Nov-2015 16:56:31

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

1 Ethylene Dibromide							
1	3.773	3.773	0.000	7687	0.1000	0.1113	
2	3.243	3.243	0.000	2742	0.1000	0.1086	
						RPD = 2.46	
\$ 2 1,2-Dibromopropane							
1	4.363	4.363	0.000	6307	0.1000	0.1066	
2	3.853	3.853	0.000	2054	0.1000	0.1124	
						RPD = 5.27	
3 1,2,3-Trichloropropane							
1	5.433	5.433	0.000	1248	0.1000	0.1116	
2	4.597	4.597	0.000	733	0.1000	0.1096	
						RPD = 1.87	
4 1,2-Dibromo-3-Chloropropane							
1	8.700	8.700	0.000	10861	0.1000	0.1070	
2	7.317	7.317	0.000	3164	0.1000	0.1169	
						RPD = 8.82	

Reagents:

504ICALWork\_00100 Amount Added: 175.00 Units: uL  
 504SurrWork\_00149 Amount Added: 35.00 Units: uL

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151105-41177.b\003F0201.D

Injection Date: 05-Nov-2015 16:18:40

Instrument ID: SGC\_E

Operator ID: CDC

Lims ID: CCVRT

Worklist Smp#: 5

Client ID:

Injection Vol: 3.0 ul

Dil. Factor: 1.0000

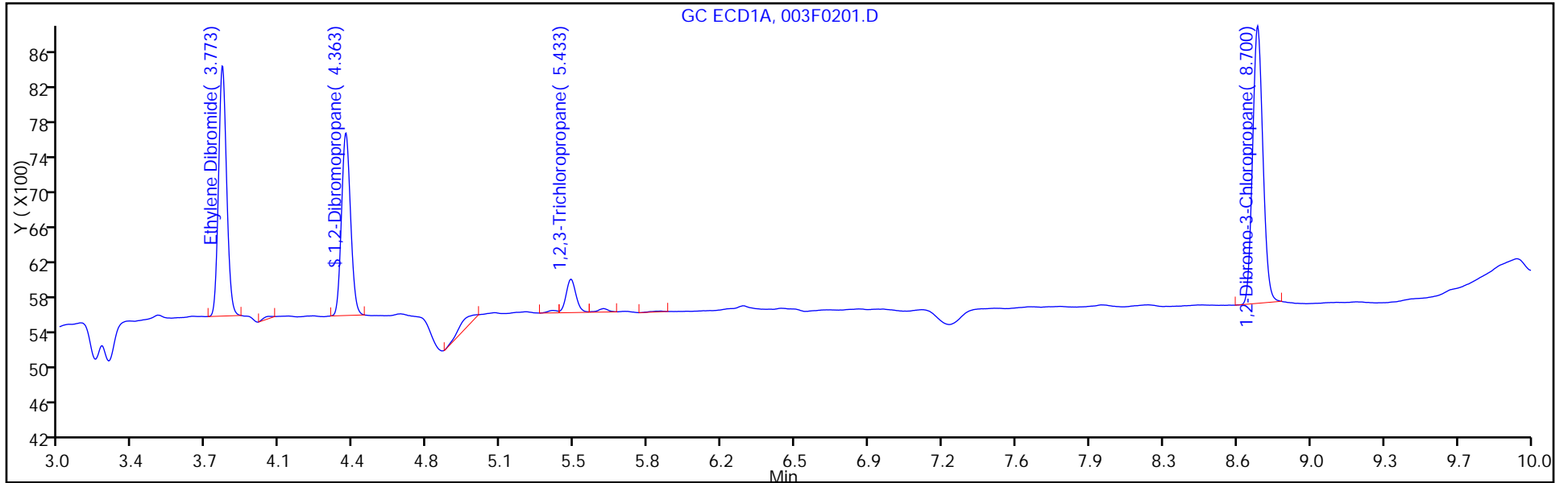
ALS Bottle#: 3

Method: 504.1

Limit Group: GCSV - 8011\_504

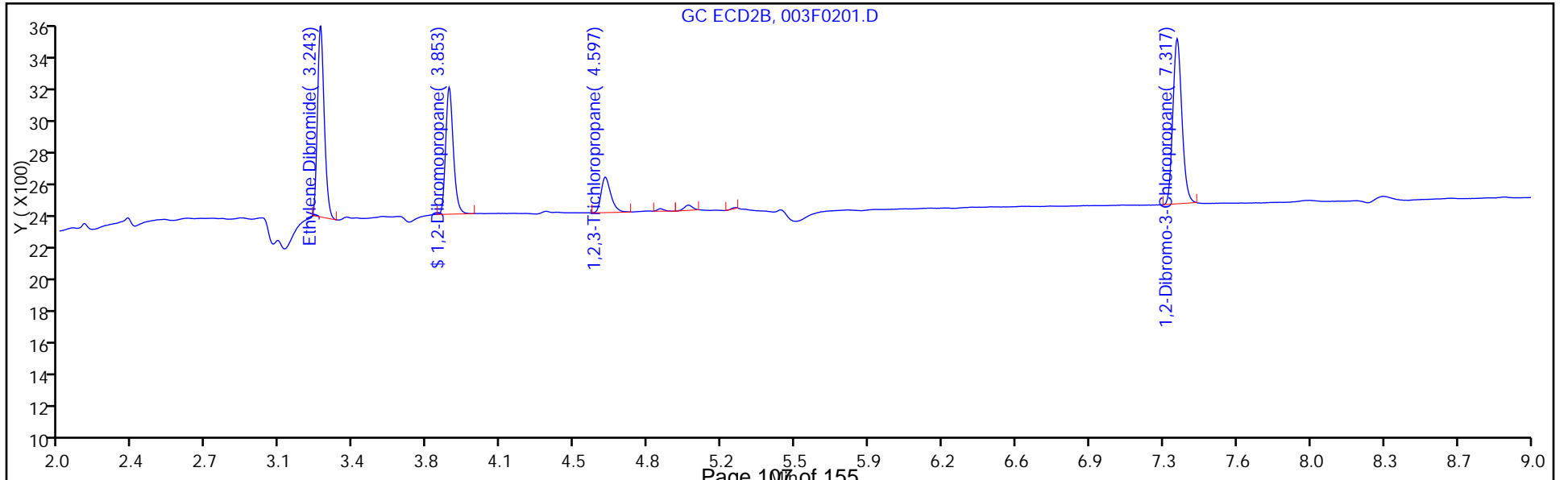
Column: Restex Rtx-502.2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Column: Restek Rtx-VRX (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



FORM VII  
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-76268-3  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVRT 280-302773/5 Calibration Date: 11/05/2015 16:18  
 Instrument ID: SGC\_E Calib Start Date: 10/27/2015 15:55  
 GC Column: RTX-VRX ID: 0.32 (mm) Calib End Date: 10/27/2015 17:49  
 Lab File ID: 003F0201.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethylene Dibromide	Lin1		27420		0.109	0.100	8.6	20.0
1,2,3-Trichloropropane	Ave	6691	7330		0.110	0.100	9.6	20.0
1,2-Dibromo-3-Chloropropane	Lin1		31640		0.117	0.100	16.9	20.0
1,2-Dibromopropane	Ave	18282	20540		0.112	0.100	12.4	20.0

FORM VII  
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-76268-3  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVRT 280-302773/5 Calibration Date: 11/05/2015 16:18  
 Instrument ID: SGC\_E Calib Start Date: 10/27/2015 15:55  
 GC Column: RTX-VRX ID: 0.32 (mm) Calib End Date: 10/27/2015 17:49  
 Lab File ID: 003F0201.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethylene Dibromide	3.24	3.21	3.27
1,2,3-Trichloropropane	4.60	4.57	4.63
1,2-Dibromo-3-Chloropropane	7.32	7.29	7.35
1,2-Dibromopropane	3.85	3.82	3.88

TestAmerica Denver  
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151105-41177.b\003F0201.D  
 Lims ID: CCVRT  
 Client ID:  
 Sample Type: CCVRT  
 Inject. Date: 05-Nov-2015 16:18:40 ALS Bottle#: 3 Worklist Smp#: 5  
 Injection Vol: 3.0 ul Dil. Factor: 1.0000  
 Sample Info: ccvrt  
 Operator ID: CDC Instrument ID: SGC\_E  
 Sublist: chrom-504.1\*sub1

Method: \\ChromNA\Denver\ChromData\SGC\_E\20151105-41177.b\504.1.m  
 Limit Group: GCSV - 8011\_504  
 Method Label: 504.1/8011 EDB+TCP+DBCP in water/soil by DV-GC-0019  
 Last Update: 09-Nov-2015 17:47:00 Calib Date: 27-Oct-2015 17:49:31  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\009F0901.D

Column 1 : Restex Rtx-502.2 ( 0.32 mm) Det: GC ECD1A  
 Column 2 : Restek Rtx-VRX ( 0.32 mm) Det: GC ECD2B  
 Process Host: XAWRK048

First Level Reviewer: cokleyc Date: 05-Nov-2015 16:56:31

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

1 Ethylene Dibromide							
1	3.773	3.773	0.000	7687	0.1000	0.1113	
2	3.243	3.243	0.000	2742	0.1000	0.1086	
						RPD = 2.46	
\$ 2 1,2-Dibromopropane							
1	4.363	4.363	0.000	6307	0.1000	0.1066	
2	3.853	3.853	0.000	2054	0.1000	0.1124	
						RPD = 5.27	
3 1,2,3-Trichloropropane							
1	5.433	5.433	0.000	1248	0.1000	0.1116	
2	4.597	4.597	0.000	733	0.1000	0.1096	
						RPD = 1.87	
4 1,2-Dibromo-3-Chloropropane							
1	8.700	8.700	0.000	10861	0.1000	0.1070	
2	7.317	7.317	0.000	3164	0.1000	0.1169	
						RPD = 8.82	

Reagents:

504ICALWork\_00100 Amount Added: 175.00 Units: uL  
 504SurrWork\_00149 Amount Added: 35.00 Units: uL

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151105-41177.b\003F0201.D

Injection Date: 05-Nov-2015 16:18:40

Instrument ID: SGC\_E

Operator ID: CDC

Lims ID: CCVRT

Worklist Smp#: 5

Client ID:

Injection Vol: 3.0 ul

Dil. Factor: 1.0000

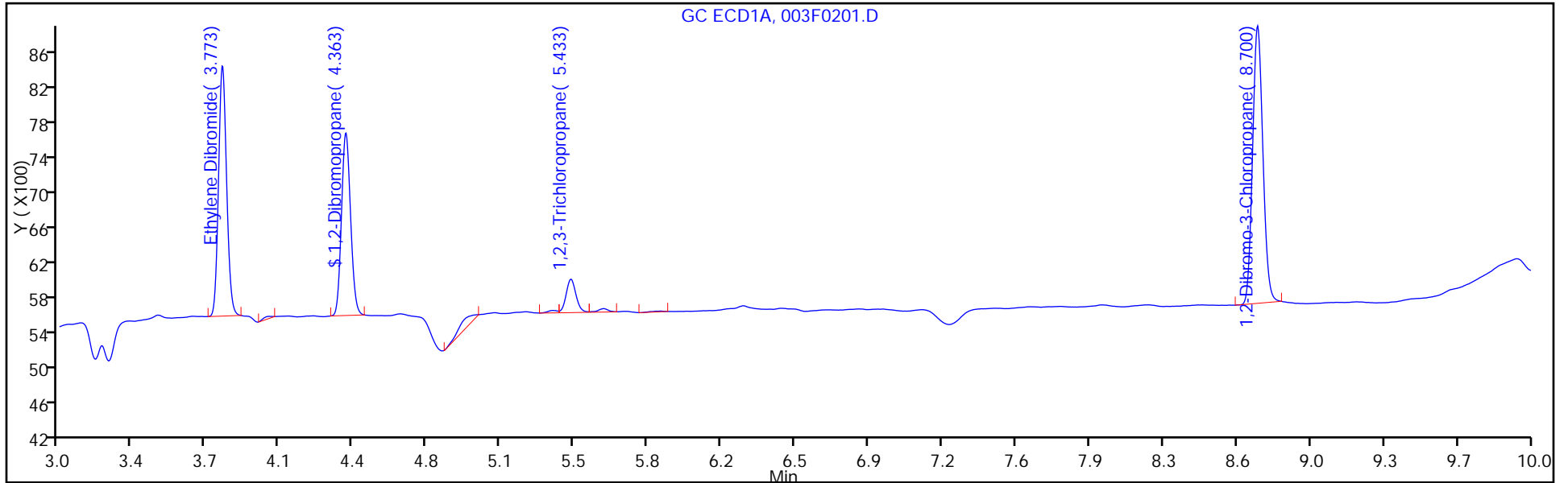
ALS Bottle#: 3

Method: 504.1

Limit Group: GCSV - 8011\_504

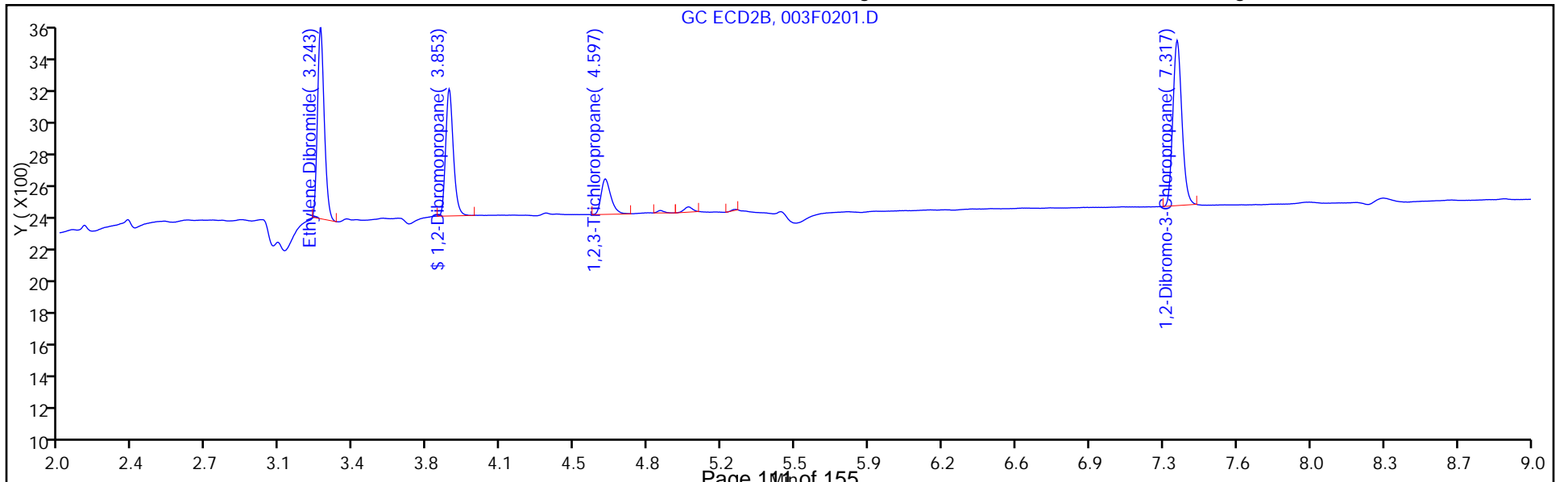
Column: Restex Rtx-502.2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Column: Restek Rtx-VRX (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



FORM VII  
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-76268-3  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 280-302773/18 Calibration Date: 11/05/2015 20:28  
 Instrument ID: SGC\_E Calib Start Date: 10/27/2015 15:55  
 GC Column: RTX 502.2 ID: 0.32 (mm) Calib End Date: 10/27/2015 17:49  
 Lab File ID: 016F1501.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethylene Dibromide	Lin1		76000		0.110	0.100	10.0	20.0
1,2,3-Trichloropropane	Lin1		12360		0.110	0.100	10.5	20.0
1,2-Dibromo-3-Chloropropane	Lin2		112500		0.111	0.100	10.9	20.0
1,2-Dibromopropane	Ave	59174	63380		0.107	0.100	7.1	20.0



FORM VII  
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-76268-3  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 280-302773/18 Calibration Date: 11/05/2015 20:28  
 Instrument ID: SGC\_E Calib Start Date: 10/27/2015 15:55  
 GC Column: RTX 502.2 ID: 0.32 (mm) Calib End Date: 10/27/2015 17:49  
 Lab File ID: 016F1501.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethylene Dibromide	3.78	3.74	3.80
1,2,3-Trichloropropane	5.44	5.40	5.46
1,2-Dibromo-3-Chloropropane	8.71	8.67	8.73
1,2-Dibromopropane	4.37	4.33	4.39

TestAmerica Denver  
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151105-41177.b\016F1501.D  
 Lims ID: ccv  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 05-Nov-2015 20:28:11 ALS Bottle#: 16 Worklist Smp#: 18  
 Injection Vol: 3.0 ul Dil. Factor: 1.0000  
 Sample Info: ccv  
 Operator ID: CDC Instrument ID: SGC\_E  
 Sublist: chrom-504.1\*sub1

Method: \\ChromNA\Denver\ChromData\SGC\_E\20151105-41177.b\504.1.m  
 Limit Group: GCSV - 8011\_504  
 Method Label: 504.1/8011 EDB+TCP+DBCP in water/soil by DV-GC-0019  
 Last Update: 09-Nov-2015 17:48:38 Calib Date: 27-Oct-2015 17:49:31  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\009F0901.D

Column 1 : Restex Rtx-502.2 ( 0.32 mm) Det: GC ECD1A  
 Column 2 : Restek Rtx-VRX ( 0.32 mm) Det: GC ECD2B  
 Process Host: XAWRK048

First Level Reviewer: cokleyc Date: 09-Nov-2015 17:43:54

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

1 Ethylene Dibromide

1	3.780	3.773	0.007	7600	0.1000	0.1100	
2	3.247	3.243	0.004	2830	0.1000	0.1123	
							RPD = 2.02

\$ 2 1,2-Dibromopropane

1	4.367	4.363	0.004	6338	0.1000	0.1071	
2	3.857	3.853	0.004	2116	0.1000	0.1157	
							RPD = 7.75

3 1,2,3-Trichloropropane

1	5.437	5.433	0.004	1236	0.1000	0.1105	
2	4.600	4.597	0.003	734	0.1000	0.1097	
							RPD = 0.72

4 1,2-Dibromo-3-Chloropropane

1	8.707	8.700	0.007	11250	0.1000	0.1109	
2	7.323	7.317	0.006	3286	0.1000	0.1216	
							RPD = 9.17

Reagents:

504ICALWork\_00100 Amount Added: 175.00 Units: uL  
 504SurrWork\_00149 Amount Added: 35.00 Units: uL

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151105-41177.b\016F1501.D

Injection Date: 05-Nov-2015 20:28:11

Instrument ID: SGC\_E

Operator ID: CDC

Lims ID: ccv

Worklist Smp#: 18

Client ID:

Injection Vol: 3.0 ul

Dil. Factor: 1.0000

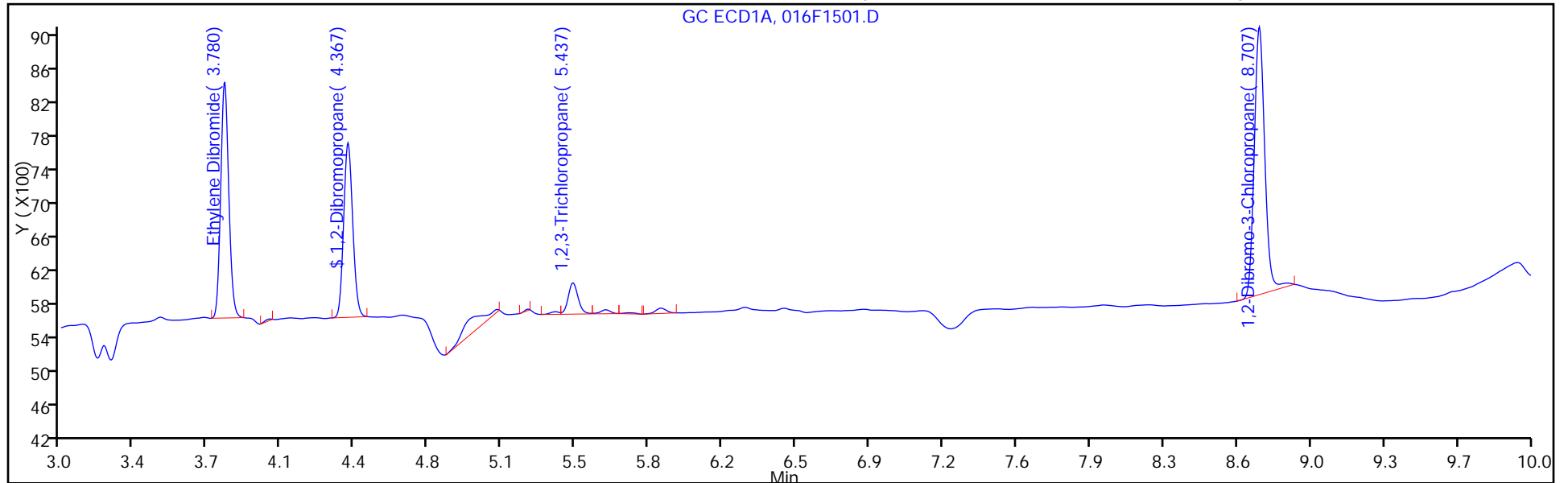
ALS Bottle#: 16

Method: 504.1

Limit Group: GCSV - 8011\_504

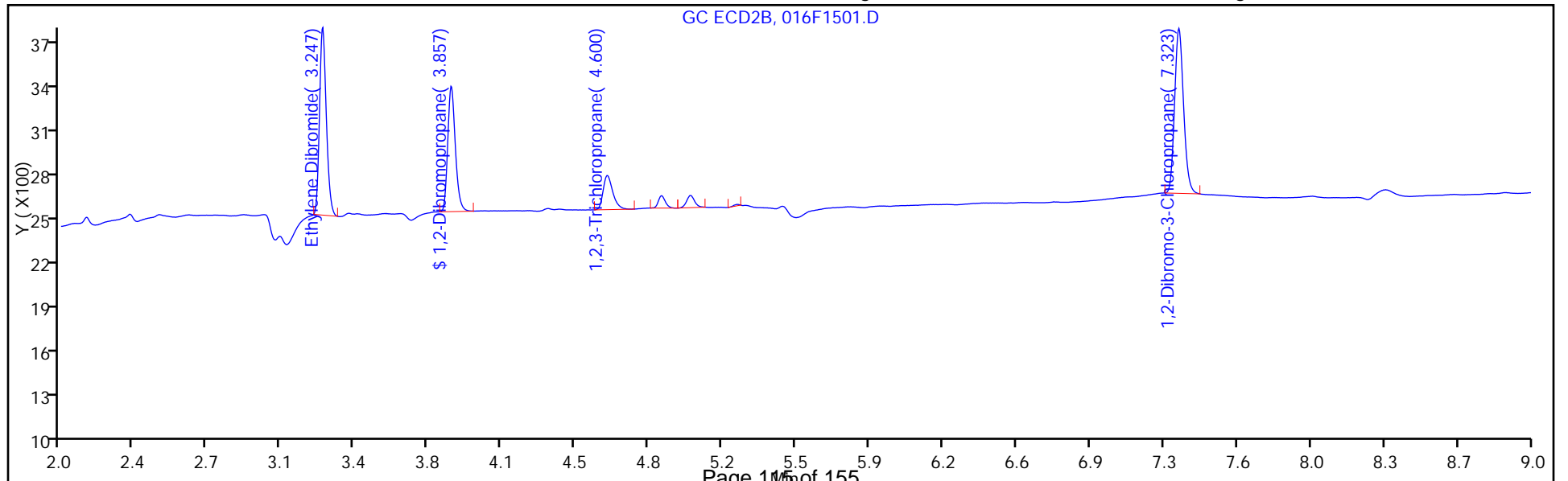
Column: Restex Rtx-502.2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Column: Restek Rtx-VRX (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



FORM VII  
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-76268-3  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 280-302773/18 Calibration Date: 11/05/2015 20:28  
 Instrument ID: SGC\_E Calib Start Date: 10/27/2015 15:55  
 GC Column: RTX-VRX ID: 0.32 (mm) Calib End Date: 10/27/2015 17:49  
 Lab File ID: 016F1501.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethylene Dibromide	Lin1		28300		0.112	0.100	12.3	20.0
1,2,3-Trichloropropane	Ave	6691	7340		0.110	0.100	9.7	20.0
1,2-Dibromo-3-Chloropropane	Lin1		32860		0.122	0.100	21.6*	20.0
1,2-Dibromopropane	Ave	18282	21160		0.116	0.100	15.7	20.0

FORM VII  
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-76268-3  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 280-302773/18 Calibration Date: 11/05/2015 20:28  
 Instrument ID: SGC\_E Calib Start Date: 10/27/2015 15:55  
 GC Column: RTX-VRX ID: 0.32 (mm) Calib End Date: 10/27/2015 17:49  
 Lab File ID: 016F1501.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethylene Dibromide	3.25	3.21	3.27
1,2,3-Trichloropropane	4.60	4.57	4.63
1,2-Dibromo-3-Chloropropane	7.32	7.29	7.35
1,2-Dibromopropane	3.86	3.82	3.88

TestAmerica Denver  
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151105-41177.b\016F1501.D  
 Lims ID: ccv  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 05-Nov-2015 20:28:11 ALS Bottle#: 16 Worklist Smp#: 18  
 Injection Vol: 3.0 ul Dil. Factor: 1.0000  
 Sample Info: ccv  
 Operator ID: CDC Instrument ID: SGC\_E  
 Sublist: chrom-504.1\*sub1

Method: \\ChromNA\Denver\ChromData\SGC\_E\20151105-41177.b\504.1.m  
 Limit Group: GCSV - 8011\_504  
 Method Label: 504.1/8011 EDB+TCP+DBCP in water/soil by DV-GC-0019  
 Last Update: 09-Nov-2015 17:48:38 Calib Date: 27-Oct-2015 17:49:31  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\009F0901.D  
 Column 1 : Restex Rtx-502.2 ( 0.32 mm) Det: GC ECD1A  
 Column 2 : Restek Rtx-VRX ( 0.32 mm) Det: GC ECD2B  
 Process Host: XAWRK048

First Level Reviewer: cokleyc Date: 09-Nov-2015 17:43:54

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

1 Ethylene Dibromide							
1	3.780	3.773	0.007	7600	0.1000	0.1100	
2	3.247	3.243	0.004	2830	0.1000	0.1123	
						RPD = 2.02	
\$ 2 1,2-Dibromopropane							
1	4.367	4.363	0.004	6338	0.1000	0.1071	
2	3.857	3.853	0.004	2116	0.1000	0.1157	
						RPD = 7.75	
3 1,2,3-Trichloropropane							
1	5.437	5.433	0.004	1236	0.1000	0.1105	
2	4.600	4.597	0.003	734	0.1000	0.1097	
						RPD = 0.72	
4 1,2-Dibromo-3-Chloropropane							
1	8.707	8.700	0.007	11250	0.1000	0.1109	
2	7.323	7.317	0.006	3286	0.1000	0.1216	
						RPD = 9.17	

Reagents:

504ICALWork\_00100 Amount Added: 175.00 Units: uL  
 504SurrWork\_00149 Amount Added: 35.00 Units: uL

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151105-41177.b\016F1501.D

Injection Date: 05-Nov-2015 20:28:11

Instrument ID: SGC\_E

Operator ID: CDC

Lims ID: ccv

Worklist Smp#: 18

Client ID:

Injection Vol: 3.0 ul

Dil. Factor: 1.0000

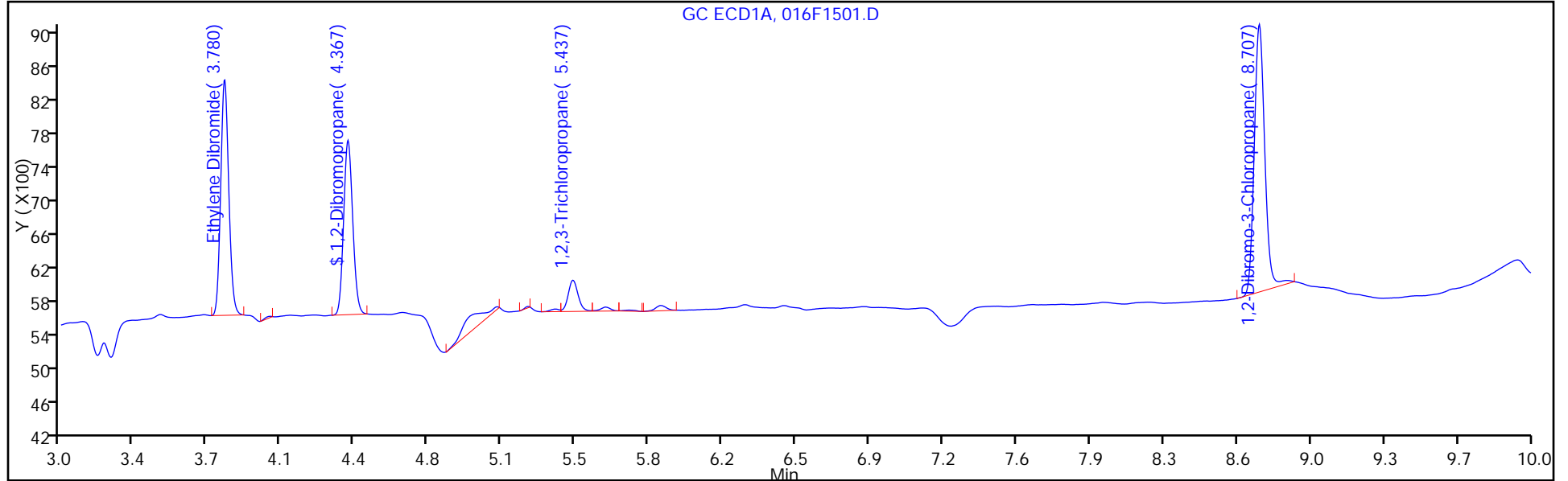
ALS Bottle#: 16

Method: 504.1

Limit Group: GCSV - 8011\_504

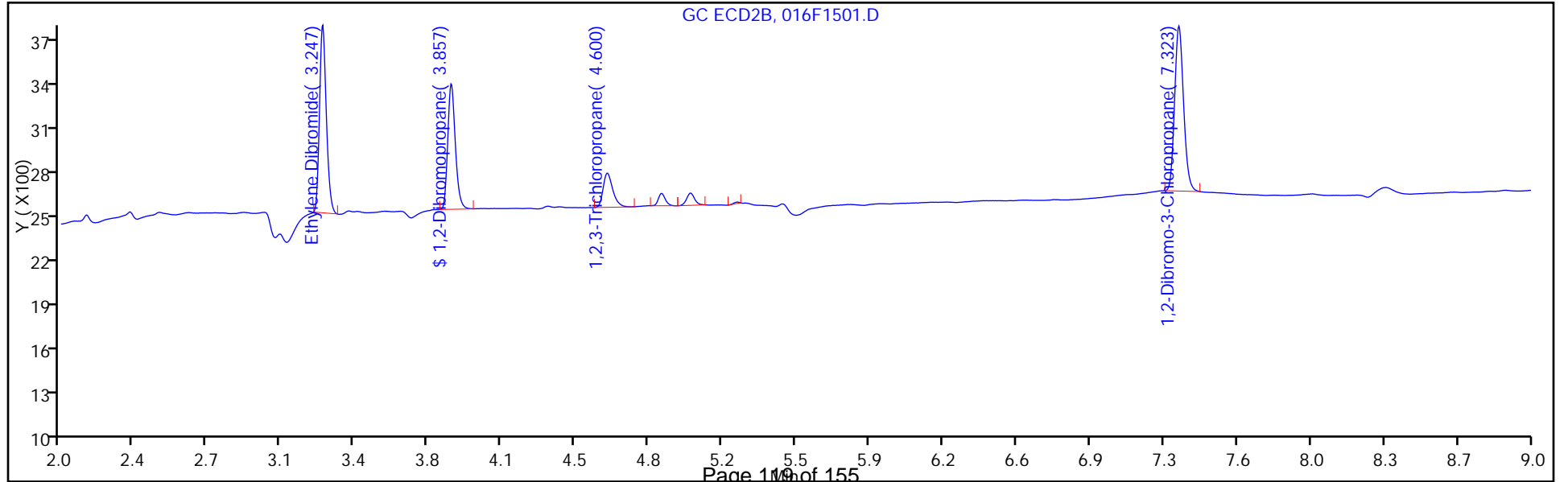
Column: Restex Rtx-502.2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Column: Restek Rtx-VRX (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



FORM VII  
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-76268-3  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 280-302773/28 Calibration Date: 11/05/2015 23:37  
 Instrument ID: SGC\_E Calib Start Date: 10/27/2015 15:55  
 GC Column: RTX 502.2 ID: 0.32 (mm) Calib End Date: 10/27/2015 17:49  
 Lab File ID: 026F2501.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethylene Dibromide	Lin1		75470		0.109	0.100	9.2	20.0
1,2,3-Trichloropropane	Lin1		12470		0.112	0.100	11.5	20.0
1,2-Dibromo-3-Chloropropane	Lin2		111760		0.110	0.100	10.2	20.0
1,2-Dibromopropane	Ave	59174	63250		0.107	0.100	6.9	20.0



FORM VII  
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-76268-3  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 280-302773/28 Calibration Date: 11/05/2015 23:37  
 Instrument ID: SGC\_E Calib Start Date: 10/27/2015 15:55  
 GC Column: RTX 502.2 ID: 0.32 (mm) Calib End Date: 10/27/2015 17:49  
 Lab File ID: 026F2501.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethylene Dibromide	3.78	3.74	3.80
1,2,3-Trichloropropane	5.44	5.40	5.46
1,2-Dibromo-3-Chloropropane	8.71	8.67	8.73
1,2-Dibromopropane	4.37	4.33	4.39

TestAmerica Denver  
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151105-41177.b\026F2501.D  
 Lims ID: ccv  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 05-Nov-2015 23:37:39 ALS Bottle#: 26 Worklist Smp#: 28  
 Injection Vol: 3.0 ul Dil. Factor: 1.0000  
 Sample Info: ccv  
 Operator ID: CDC Instrument ID: SGC\_E  
 Sublist: chrom-504.1\*sub1

Method: \\ChromNA\Denver\ChromData\SGC\_E\20151105-41177.b\504.1.m  
 Limit Group: GCSV - 8011\_504  
 Method Label: 504.1/8011 EDB+TCP+DBCP in water/soil by DV-GC-0019  
 Last Update: 09-Nov-2015 17:49:34 Calib Date: 27-Oct-2015 17:49:31  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\009F0901.D

Column 1 : Restex Rtx-502.2 ( 0.32 mm) Det: GC ECD1A  
 Column 2 : Restek Rtx-VRX ( 0.32 mm) Det: GC ECD2B  
 Process Host: XAWRK048

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

1 Ethylene Dibromide							
1	3.780	3.773	0.007	7547	0.1000	0.1092	
2	3.247	3.243	0.004	2791	0.1000	0.1107	
						RPD = 1.32	
\$ 2 1,2-Dibromopropane							
1	4.367	4.363	0.004	6325	0.1000	0.1069	
2	3.860	3.853	0.007	2111	0.1000	0.1155	
						RPD = 7.72	
3 1,2,3-Trichloropropane							
1	5.440	5.433	0.007	1247	0.1000	0.1115	
2	4.603	4.597	0.006	730	0.1000	0.1091	
						RPD = 2.19	
4 1,2-Dibromo-3-Chloropropane							
1	8.707	8.700	0.007	11176	0.1000	0.1102	
2	7.323	7.317	0.006	3361	0.1000	0.1245	
						RPD = 12.19	

Reagents:

504ICALWork\_00100 Amount Added: 175.00 Units: uL  
 504SurrWork\_00149 Amount Added: 35.00 Units: uL

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151105-41177.b\026F2501.D

Injection Date: 05-Nov-2015 23:37:39

Instrument ID: SGC\_E

Operator ID: CDC

Lims ID: ccv

Worklist Smp#: 28

Client ID:

Injection Vol: 3.0 ul

Dil. Factor: 1.0000

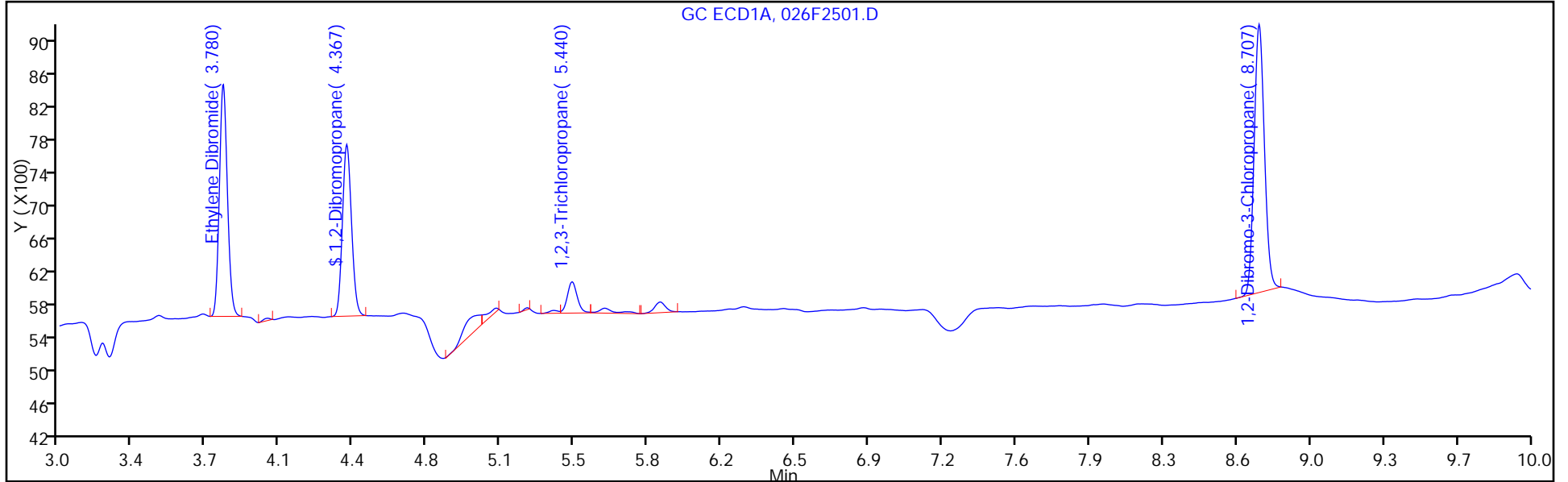
ALS Bottle#: 26

Method: 504.1

Limit Group: GCSV - 8011\_504

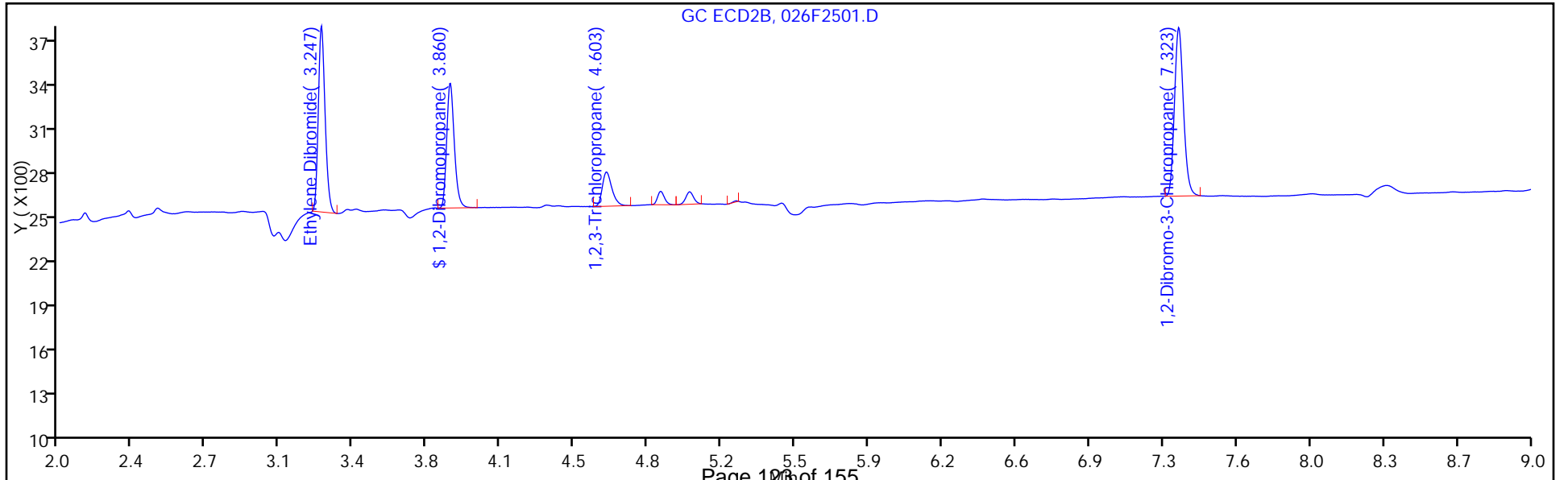
Column: Restex Rtx-502.2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Column: Restek Rtx-VRX (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



FORM VII  
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-76268-3  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 280-302773/28 Calibration Date: 11/05/2015 23:37  
 Instrument ID: SGC\_E Calib Start Date: 10/27/2015 15:55  
 GC Column: RTX-VRX ID: 0.32 (mm) Calib End Date: 10/27/2015 17:49  
 Lab File ID: 026F2501.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethylene Dibromide	Lin1		27910		0.111	0.100	10.7	20.0
1,2,3-Trichloropropane	Ave	6691	7300		0.109	0.100	9.1	20.0
1,2-Dibromo-3-Chloropropane	Lin1		33610		0.124	0.100	24.5*	20.0
1,2-Dibromopropane	Ave	18282	21110		0.115	0.100	15.5	20.0

FORM VII  
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-76268-3  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 280-302773/28 Calibration Date: 11/05/2015 23:37  
 Instrument ID: SGC\_E Calib Start Date: 10/27/2015 15:55  
 GC Column: RTX-VRX ID: 0.32 (mm) Calib End Date: 10/27/2015 17:49  
 Lab File ID: 026F2501.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethylene Dibromide	3.25	3.21	3.27
1,2,3-Trichloropropane	4.60	4.57	4.63
1,2-Dibromo-3-Chloropropane	7.32	7.29	7.35
1,2-Dibromopropane	3.86	3.82	3.88

TestAmerica Denver  
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151105-41177.b\026F2501.D  
 Lims ID: ccv  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 05-Nov-2015 23:37:39 ALS Bottle#: 26 Worklist Smp#: 28  
 Injection Vol: 3.0 ul Dil. Factor: 1.0000  
 Sample Info: ccv  
 Operator ID: CDC Instrument ID: SGC\_E  
 Sublist: chrom-504.1\*sub1

Method: \\ChromNA\Denver\ChromData\SGC\_E\20151105-41177.b\504.1.m  
 Limit Group: GCSV - 8011\_504  
 Method Label: 504.1/8011 EDB+TCP+DBCP in water/soil by DV-GC-0019  
 Last Update: 09-Nov-2015 17:49:34 Calib Date: 27-Oct-2015 17:49:31  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\009F0901.D

Column 1 : Restex Rtx-502.2 ( 0.32 mm) Det: GC ECD1A  
 Column 2 : Restek Rtx-VRX ( 0.32 mm) Det: GC ECD2B  
 Process Host: XAWRK048

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

1 Ethylene Dibromide

1	3.780	3.773	0.007	7547	0.1000	0.1092	
2	3.247	3.243	0.004	2791	0.1000	0.1107	
							RPD = 1.32

\$ 2 1,2-Dibromopropane

1	4.367	4.363	0.004	6325	0.1000	0.1069	
2	3.860	3.853	0.007	2111	0.1000	0.1155	
							RPD = 7.72

3 1,2,3-Trichloropropane

1	5.440	5.433	0.007	1247	0.1000	0.1115	
2	4.603	4.597	0.006	730	0.1000	0.1091	
							RPD = 2.19

4 1,2-Dibromo-3-Chloropropane

1	8.707	8.700	0.007	11176	0.1000	0.1102	
2	7.323	7.317	0.006	3361	0.1000	0.1245	
							RPD = 12.19

Reagents:

504ICALWork\_00100 Amount Added: 175.00 Units: uL  
 504SurrWork\_00149 Amount Added: 35.00 Units: uL

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151105-41177.b\026F2501.D

Injection Date: 05-Nov-2015 23:37:39

Instrument ID: SGC\_E

Operator ID: CDC

Lims ID: ccv

Worklist Smp#: 28

Client ID:

Injection Vol: 3.0 ul

Dil. Factor: 1.0000

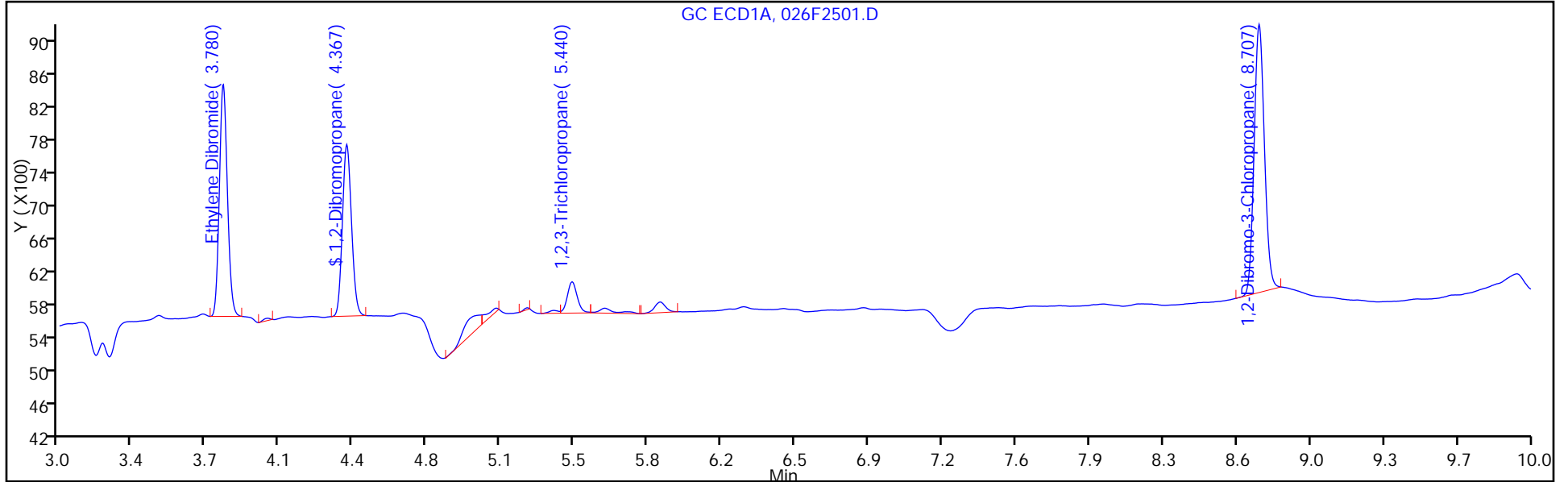
ALS Bottle#: 26

Method: 504.1

Limit Group: GCSV - 8011\_504

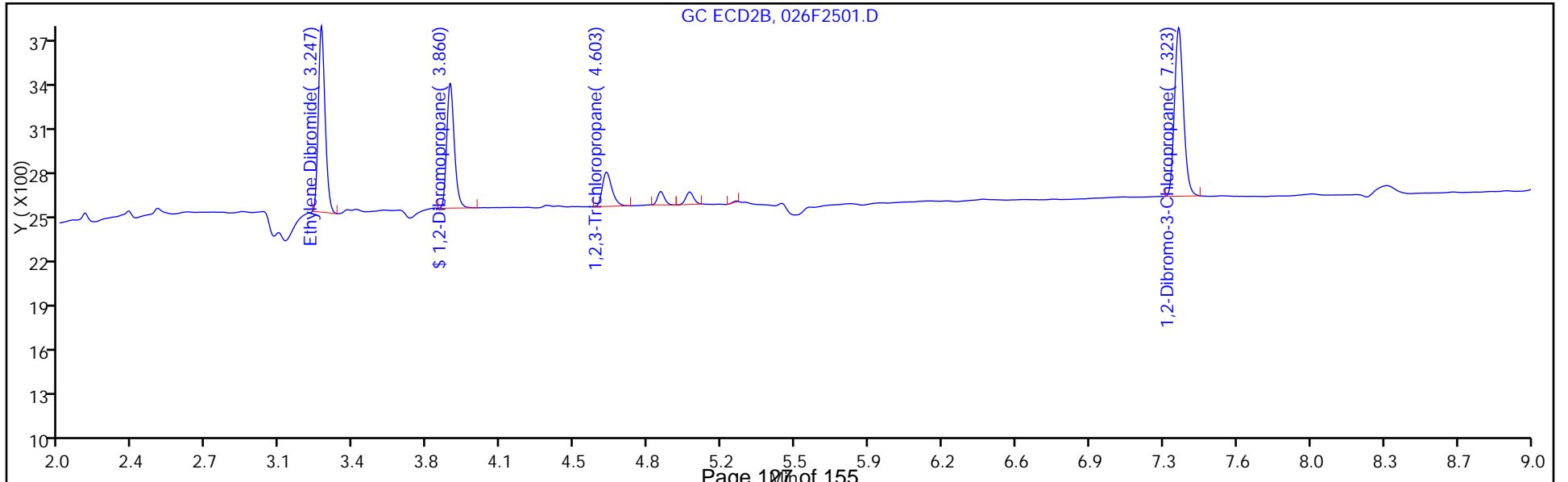
Column: Restex Rtx-502.2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Column: Restek Rtx-VRX (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



FORM I  
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-76268-3  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 280-302740/2-A  
 Matrix: Water Lab File ID: 004F0301.D  
 Analysis Method: 8011/DOD Date Collected: \_\_\_\_\_  
 Extraction Method: 8011 Date Extracted: 11/05/2015 14:18  
 Sample wt/vol: 35 (mL) Date Analyzed: 11/05/2015 16:38  
 Con. Extract Vol.: 35 (mL) Dilution Factor: 1  
 Injection Volume: 3 (uL) GC Column: RTX 502.2 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 302773 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
106-93-4	Ethylene Dibromide	0.014	U	0.020	0.014	0.0037

CAS NO.	SURROGATE	%REC	Q	LIMITS
78-75-1	1,2-Dibromopropane	107		70-130



TestAmerica Denver  
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151105-41177.b\004F0301.D  
 Lims ID: MB 280-302740/2-A  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 05-Nov-2015 16:38:02 ALS Bottle#: 4 Worklist Smp#: 6  
 Injection Vol: 3.0 ul Dil. Factor: 1.0000  
 Sample Info: mb  
 Operator ID: CDC Instrument ID: SGC\_E  
 Method: \\ChromNA\Denver\ChromData\SGC\_E\20151105-41177.b\504.1.m  
 Limit Group: GCSV - 8011\_504  
 Method Label: 504.1/8011 EDB+TCP+DBCP in water/soil by DV-GC-0019  
 Last Update: 09-Nov-2015 17:47:00 Calib Date: 27-Oct-2015 17:49:31  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\009F0901.D  
 Column 1 : Restex Rtx-502.2 ( 0.32 mm) Det: GC ECD1A  
 Column 2 : Restek Rtx-VRX ( 0.32 mm) Det: GC ECD2B  
 Process Host: XAWRK048

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

1 Ethylene Dibromide							
1		3.773				ND	
2		3.243					
\$ 2 1,2-Dibromopropane							
1	4.363	4.363	0.000	6328	0.1000	0.1069	
2	3.853	3.853	0.000	2060	0.1000	0.1127	
						RPD = 5.23	
3 1,2,3-Trichloropropane							
1		5.433				ND	
2		4.597					
4 1,2-Dibromo-3-Chloropropane							
1		8.700				ND	
2		7.317					

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151105-41177.b\004F0301.D

Injection Date: 05-Nov-2015 16:38:02

Instrument ID: SGC\_E

Operator ID: CDC

Lims ID: MB 280-302740/2-A

Worklist Smp#: 6

Client ID:

Injection Vol: 3.0 ul

Dil. Factor: 1.0000

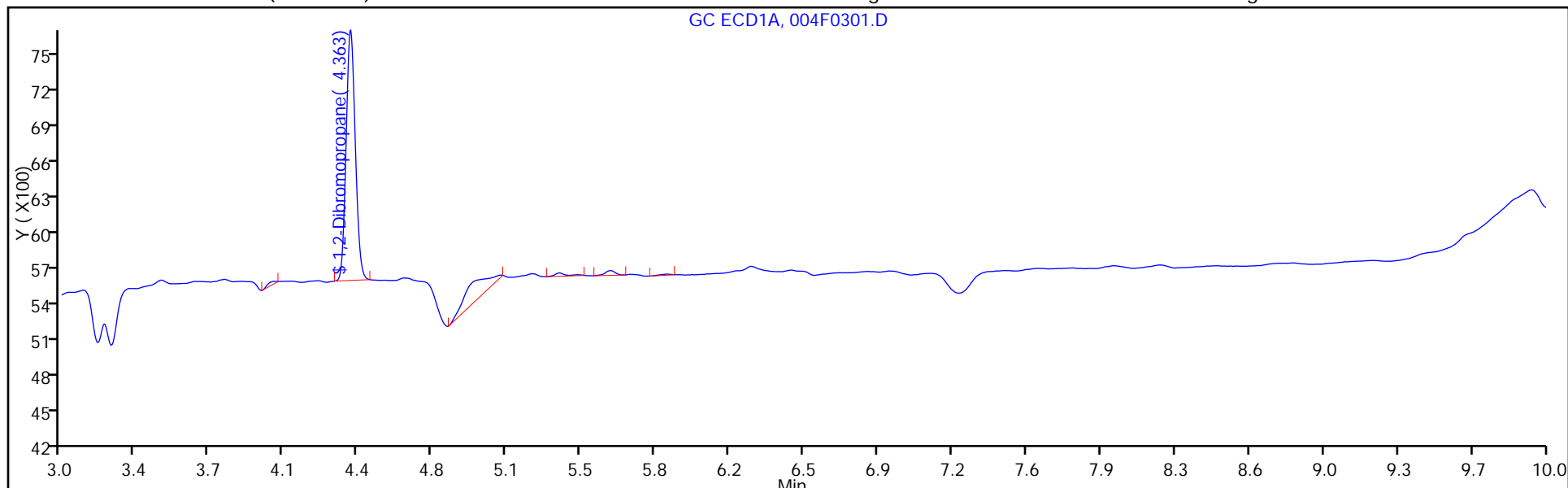
ALS Bottle#: 4

Method: 504.1

Limit Group: GCSV - 8011\_504

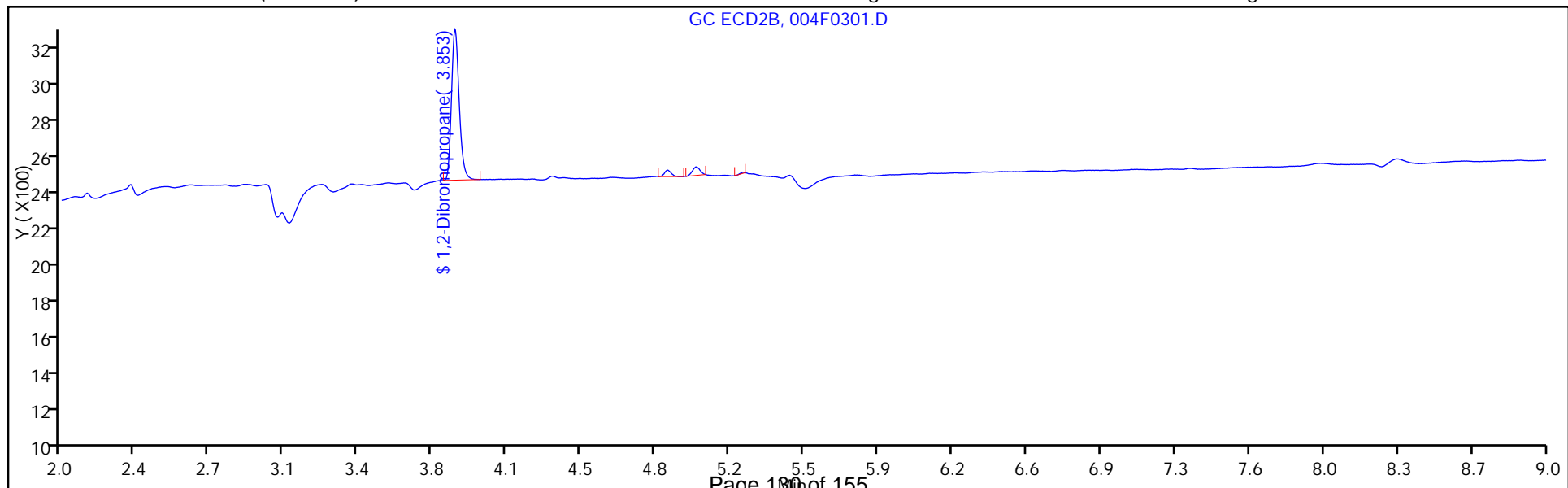
Column: Restex Rtx-502.2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Column: Restek Rtx-VRX (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



FORM I  
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-76268-3  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 280-302740/3-A  
 Matrix: Water Lab File ID: 005F0401.D  
 Analysis Method: 8011/DOD Date Collected: \_\_\_\_\_  
 Extraction Method: 8011 Date Extracted: 11/05/2015 14:18  
 Sample wt/vol: 35 (mL) Date Analyzed: 11/05/2015 16:57  
 Con. Extract Vol.: 35 (mL) Dilution Factor: 1  
 Injection Volume: 3 (uL) GC Column: RTX 502.2 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 302773 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
106-93-4	Ethylene Dibromide	0.245		0.020	0.014	0.0037

CAS NO.	SURROGATE	%REC	Q	LIMITS
78-75-1	1,2-Dibromopropane	107		70-130

TestAmerica Denver  
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151105-41177.b\005F0401.D  
 Lims ID: LCS 280-302740/3-A  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 05-Nov-2015 16:57:21 ALS Bottle#: 5 Worklist Smp#: 7  
 Injection Vol: 3.0 ul Dil. Factor: 1.0000  
 Sample Info: lcs  
 Operator ID: CDC Instrument ID: SGC\_E  
 Method: \\ChromNA\Denver\ChromData\SGC\_E\20151105-41177.b\504.1.m  
 Limit Group: GCSV - 8011\_504  
 Method Label: 504.1/8011 EDB+TCP+DBCP in water/soil by DV-GC-0019  
 Last Update: 09-Nov-2015 17:47:00 Calib Date: 27-Oct-2015 17:49:31  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\009F0901.D  
 Column 1 : Restex Rtx-502.2 ( 0.32 mm) Det: GC ECD1A  
 Column 2 : Restek Rtx-VRX ( 0.32 mm) Det: GC ECD2B  
 Process Host: XAWRK048

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

1 Ethylene Dibromide

1	3.773	3.773	0.000	16457	0.2500	0.2447	
2	3.240	3.243	-0.003	6005	0.2500	0.2432	
							RPD = 0.61

\$ 2 1,2-Dibromopropane

1	4.363	4.363	0.000	6304	0.1000	0.1065	
2	3.853	3.853	0.000	2062	0.1000	0.1128	
							RPD = 5.70

3 1,2,3-Trichloropropane

1	5.433	5.433	0.000	2982	0.2500	0.2732	
2	4.597	4.597	0.000	1757	0.2500	0.2626	
							RPD = 3.95

4 1,2-Dibromo-3-Chloropropane

1	8.697	8.700	-0.003	23575	0.2500	0.2348	
2	7.317	7.317	0.000	6905	0.2500	0.2609	
							RPD = 10.52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151105-41177.b\005F0401.D

Injection Date: 05-Nov-2015 16:57:21

Instrument ID: SGC\_E

Operator ID: CDC

Lims ID: LCS 280-302740/3-A

Worklist Smp#: 7

Client ID:

Injection Vol: 3.0 ul

Dil. Factor: 1.0000

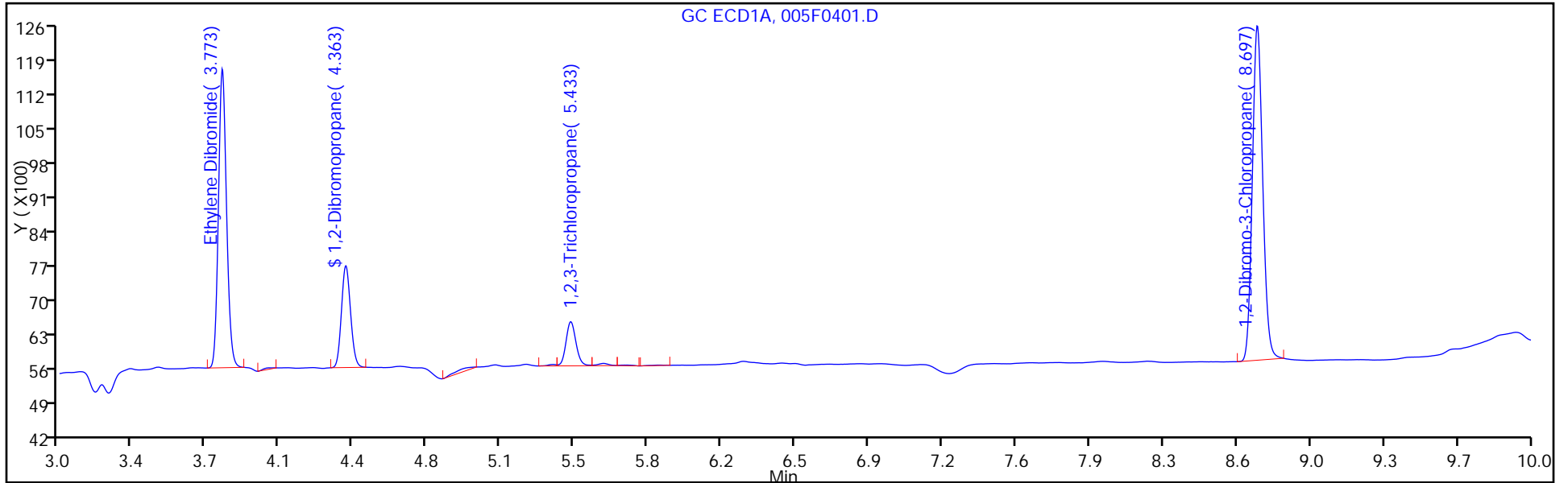
ALS Bottle#: 5

Method: 504.1

Limit Group: GCSV - 8011\_504

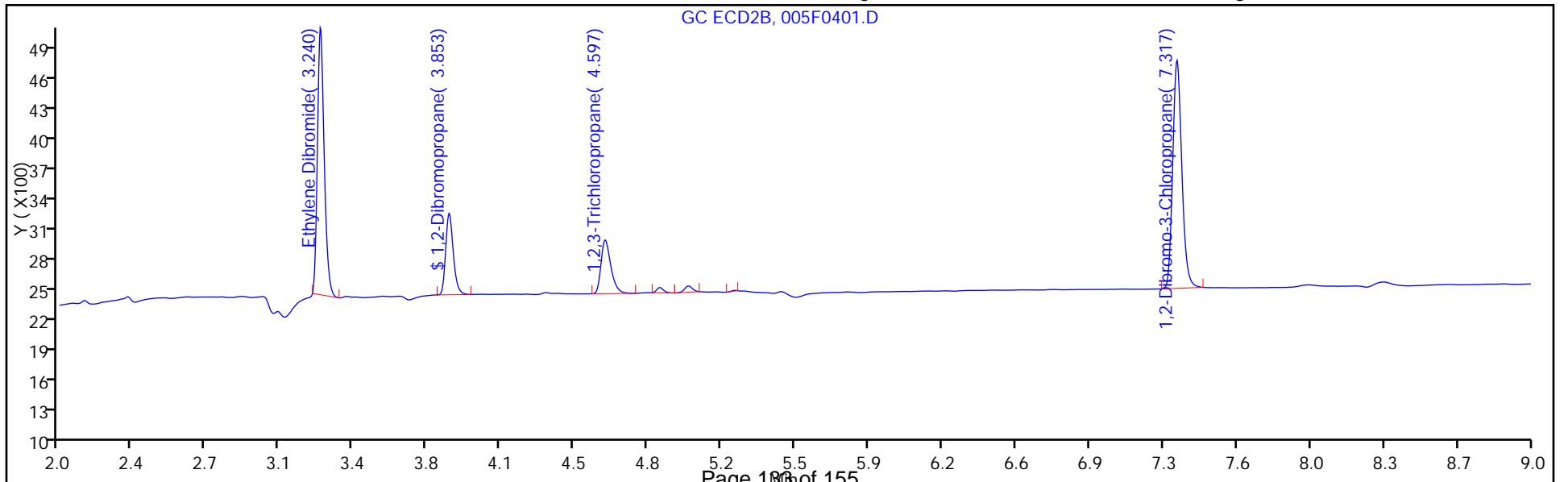
Column: Restex Rtx-502.2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Column: Restek Rtx-VRX (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



FORM I  
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-76268-3  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCSD 280-302740/4-A  
 Matrix: Water Lab File ID: 006F0501.D  
 Analysis Method: 8011/DOD Date Collected: \_\_\_\_\_  
 Extraction Method: 8011 Date Extracted: 11/05/2015 14:18  
 Sample wt/vol: 35 (mL) Date Analyzed: 11/05/2015 17:16  
 Con. Extract Vol.: 35 (mL) Dilution Factor: 1  
 Injection Volume: 3 (uL) GC Column: RTX 502.2 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 302773 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
106-93-4	Ethylene Dibromide	0.246		0.020	0.014	0.0037

CAS NO.	SURROGATE	%REC	Q	LIMITS
78-75-1	1,2-Dibromopropane	107		70-130

TestAmerica Denver  
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151105-41177.b\006F0501.D  
 Lims ID: LCSD 280-302740/4-A  
 Client ID:  
 Sample Type: LCSD  
 Inject. Date: 05-Nov-2015 17:16:42 ALS Bottle#: 6 Worklist Smp#: 8  
 Injection Vol: 3.0 ul Dil. Factor: 1.0000  
 Sample Info: lcsd  
 Operator ID: CDC Instrument ID: SGC\_E  
 Method: \\ChromNA\Denver\ChromData\SGC\_E\20151105-41177.b\504.1.m  
 Limit Group: GCSV - 8011\_504  
 Method Label: 504.1/8011 EDB+TCP+DBCP in water/soil by DV-GC-0019  
 Last Update: 09-Nov-2015 17:47:00 Calib Date: 27-Oct-2015 17:49:31  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\009F0901.D  
 Column 1 : Restex Rtx-502.2 ( 0.32 mm) Det: GC ECD1A  
 Column 2 : Restek Rtx-VRX ( 0.32 mm) Det: GC ECD2B  
 Process Host: XAWRK048

First Level Reviewer: cokleyc Date: 05-Nov-2015 17:52:58

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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1 Ethylene Dibromide							
1	3.773	3.773	0.000	16567	0.2500	0.2463	
2	3.243	3.243	0.000	6047	0.2500	0.2449	
						RPD = 0.58	
\$ 2 1,2-Dibromopropane							
1	4.363	4.363	0.000	6353	0.1000	0.1074	
2	3.853	3.853	0.000	2071	0.1000	0.1133	
						RPD = 5.36	
3 1,2,3-Trichloropropane							
1	5.433	5.433	0.000	3005	0.2500	0.2753	
2	4.597	4.597	0.000	1775	0.2500	0.2653	
						RPD = 3.71	
4 1,2-Dibromo-3-Chloropropane							
1	8.700	8.700	0.000	23821	0.2500	0.2373	
2	7.317	7.317	0.000	6912	0.2500	0.2612	
						RPD = 9.58	

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151105-41177.b\006F0501.D

Injection Date: 05-Nov-2015 17:16:42

Instrument ID: SGC\_E

Operator ID: CDC

Lims ID: LCSD 280-302740/4-A

Worklist Smp#: 8

Client ID:

Injection Vol: 3.0 ul

Dil. Factor: 1.0000

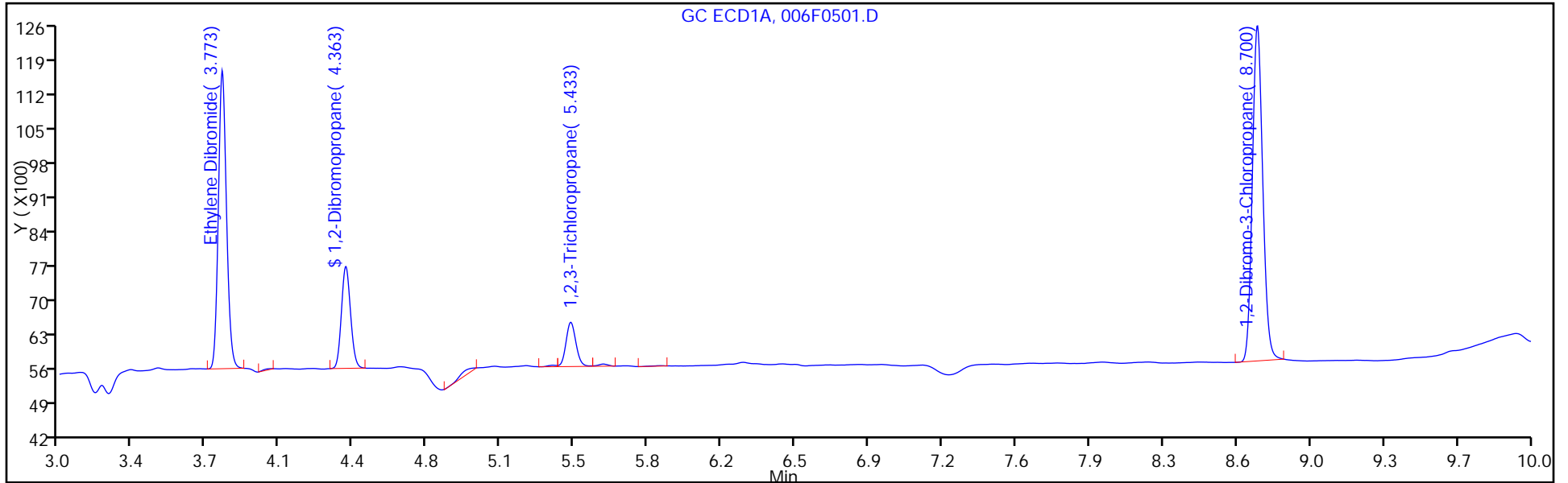
ALS Bottle#: 6

Method: 504.1

Limit Group: GCSV - 8011\_504

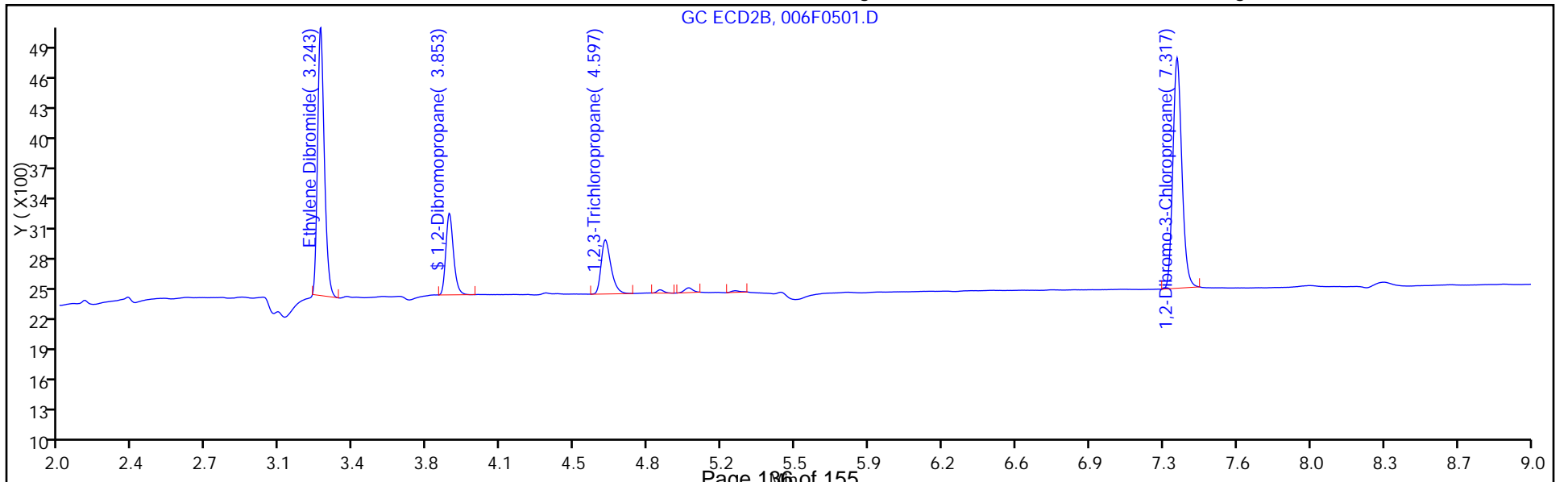
Column: Restex Rtx-502.2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Column: Restek Rtx-VRX (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1





FORM I  
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-76268-3  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW20102015MS MS Lab Sample ID: 280-76268-9 MS  
 Matrix: Water Lab File ID: 009F0801.D  
 Analysis Method: 8011/DOD Date Collected: 11/02/2015 10:30  
 Extraction Method: 8011 Date Extracted: 11/05/2015 14:18  
 Sample wt/vol: 35.1 (mL) Date Analyzed: 11/05/2015 18:14  
 Con. Extract Vol.: 35 (mL) Dilution Factor: 1  
 Injection Volume: 3 (uL) GC Column: RTX 502.2 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 302773 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
106-93-4	Ethylene Dibromide	0.244		0.020	0.014	0.0037

CAS NO.	SURROGATE	%REC	Q	LIMITS
78-75-1	1,2-Dibromopropane	121		70-130

TestAmerica Denver  
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151105-41177.b\009F0801.D  
 Lims ID: 280-76268-BA-9-A MS  
 Client ID: MW20102015MS  
 Sample Type: MS  
 Inject. Date: 05-Nov-2015 18:14:29 ALS Bottle#: 9 Worklist Smp#: 11  
 Injection Vol: 3.0 ul Dil. Factor: 1.0000  
 Sample Info: 76268-BA-9ms  
 Operator ID: CDC Instrument ID: SGC\_E  
 Method: \\ChromNA\Denver\ChromData\SGC\_E\20151105-41177.b\504.1.m  
 Limit Group: GCSV - 8011\_504  
 Method Label: 504.1/8011 EDB+TCP+DBCP in water/soil by DV-GC-0019  
 Last Update: 09-Nov-2015 17:47:00 Calib Date: 27-Oct-2015 17:49:31  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\009F0901.D  
 Column 1 : Restex Rtx-502.2 ( 0.32 mm) Det: GC ECD1A  
 Column 2 : Restek Rtx-VRX ( 0.32 mm) Det: GC ECD2B  
 Process Host: XAWRK048

First Level Reviewer: cokleyc Date: 05-Nov-2015 18:50:32

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

1 Ethylene Dibromide							
1	3.773	3.773	0.000	16479	0.2500	0.2450	
2	3.240	3.243	-0.003	6110	0.2500	0.2475	
						RPD = 1.02	
\$ 2 1,2-Dibromopropane M							
1	4.363	4.363	0.000	7170	0.1000	0.1212	
2	3.853	3.853	0.000	1492	0.1000	0.0816	M
						RPD = 39.02	
3 1,2,3-Trichloropropane							
1	5.430	5.433	-0.003	4012	0.2500	0.3691	
2	4.593	4.597	-0.004	2101	0.2500	0.3140	
						RPD = 16.14	
4 1,2-Dibromo-3-Chloropropane							
1	8.697	8.700	-0.003	29561	0.2500	0.2950	
2	7.317	7.317	0.000	7178	0.2500	0.2714	
						RPD = 8.33	

QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151105-41177.b\009F0801.D

Injection Date: 05-Nov-2015 18:14:29

Instrument ID: SGC\_E

Operator ID: CDC

Lims ID: 280-76268-BA-9-A MS

Worklist Smp#: 11

Client ID: MW20102015MS

Injection Vol: 3.0 ul

Dil. Factor: 1.0000

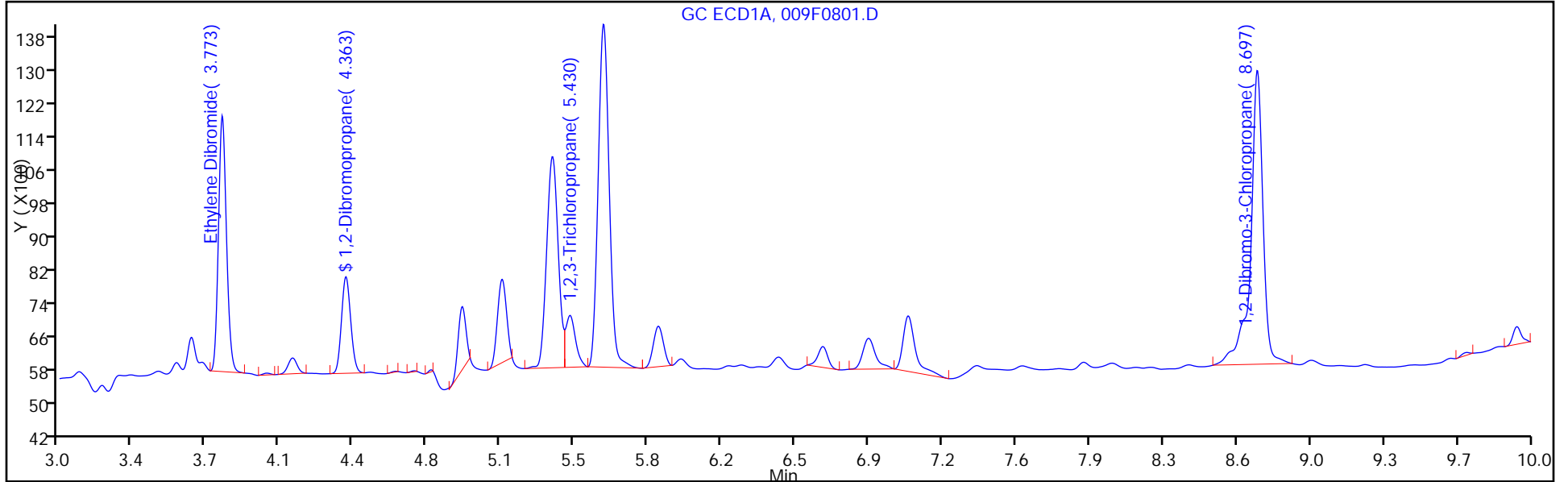
ALS Bottle#: 9

Method: 504.1

Limit Group: GCSV - 8011\_504

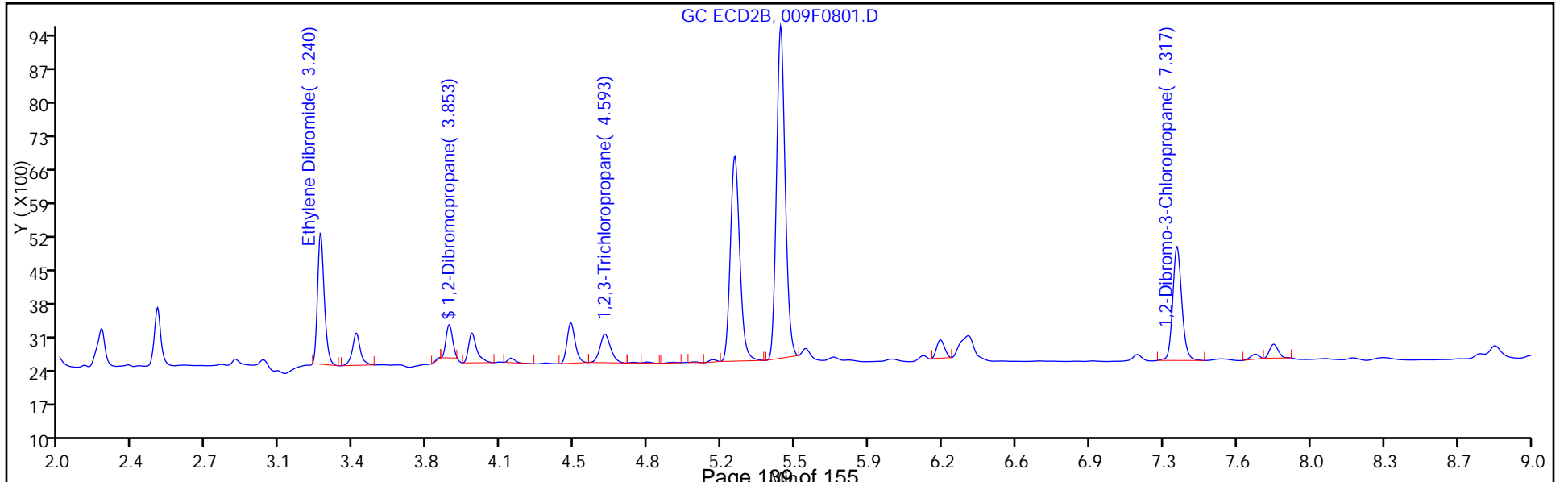
Column: Restex Rtx-502.2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Column: Restek Rtx-VRX (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



FORM I  
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-76268-3  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW20102015MSD MSD Lab Sample ID: 280-76268-9 MSD  
 Matrix: Water Lab File ID: 010F0901.D  
 Analysis Method: 8011/DOD Date Collected: 11/02/2015 10:30  
 Extraction Method: 8011 Date Extracted: 11/05/2015 14:18  
 Sample wt/vol: 35.6(mL) Date Analyzed: 11/05/2015 18:33  
 Con. Extract Vol.: 35(mL) Dilution Factor: 1  
 Injection Volume: 3(uL) GC Column: RTX 502.2 ID: 0.32(mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 302773 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
106-93-4	Ethylene Dibromide	0.233		0.020	0.014	0.0036

CAS NO.	SURROGATE	%REC	Q	LIMITS
78-75-1	1,2-Dibromopropane	121		70-130

TestAmerica Denver  
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151105-41177.b\010F0901.D  
 Lims ID: 280-76268-BB-9-A MSD  
 Client ID: MW20102015MSD  
 Sample Type: MSD  
 Inject. Date: 05-Nov-2015 18:33:46 ALS Bottle#: 10 Worklist Smp#: 12  
 Injection Vol: 3.0 ul Dil. Factor: 1.0000  
 Sample Info: 76268-BB-9msd  
 Operator ID: CDC Instrument ID: SGC\_E  
 Method: \\ChromNA\Denver\ChromData\SGC\_E\20151105-41177.b\504.1.m  
 Limit Group: GCSV - 8011\_504  
 Method Label: 504.1/8011 EDB+TCP+DBCP in water/soil by DV-GC-0019  
 Last Update: 09-Nov-2015 17:47:00 Calib Date: 27-Oct-2015 17:49:31  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Denver\ChromData\SGC\_E\20151027-40816.b\009F0901.D  
 Column 1: Restex Rtx-502.2 ( 0.32 mm) Det: GC ECD1A  
 Column 2: Restek Rtx-VRX ( 0.32 mm) Det: GC ECD2B  
 Process Host: XAWRK048

First Level Reviewer: redmaner Date: 06-Nov-2015 08:39:24

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

1 Ethylene Dibromide							
1	3.773	3.773	0.000	15961	0.2500	0.2371	
2	3.240	3.243	-0.003	5982	0.2500	0.2422	
						RPD = 2.13	
\$ 2 1,2-Dibromopropane M							
1	4.363	4.363	0.000	7164	0.1000	0.1211	
2	3.853	3.853	0.000	1449	0.1000	0.0793	M
						RPD = 41.74	
3 1,2,3-Trichloropropane							
1	5.430	5.433	-0.003	4126	0.2500	0.3798	
2	4.593	4.597	-0.004	2284	0.2500	0.3414	
						RPD = 10.65	
4 1,2-Dibromo-3-Chloropropane							
1	8.700	8.700	0.000	28665	0.2500	0.2860	
2	7.317	7.317	0.000	6683	0.2500	0.2524	
						RPD = 12.50	

QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC\_E\20151105-41177.b\010F0901.D

Injection Date: 05-Nov-2015 18:33:46

Instrument ID: SGC\_E

Operator ID: CDC

Lims ID: 280-76268-BB-9-A MSD

Worklist Smp#: 12

Client ID: MW20102015MSD

Injection Vol: 3.0 ul

Dil. Factor: 1.0000

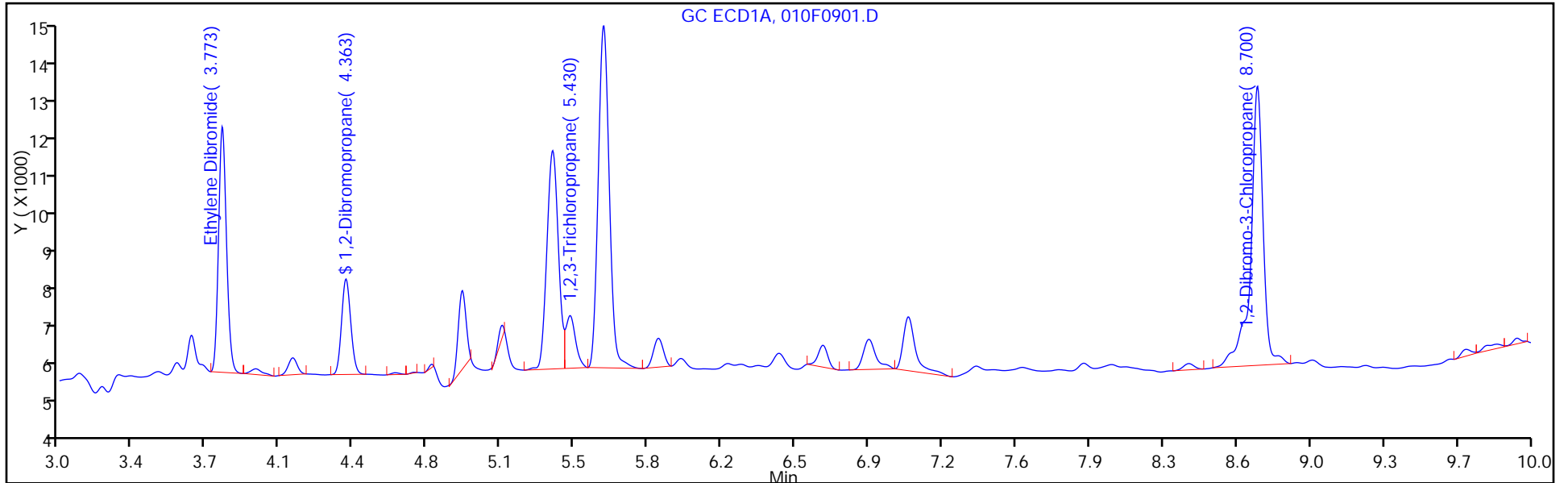
ALS Bottle#: 10

Method: 504.1

Limit Group: GCSV - 8011\_504

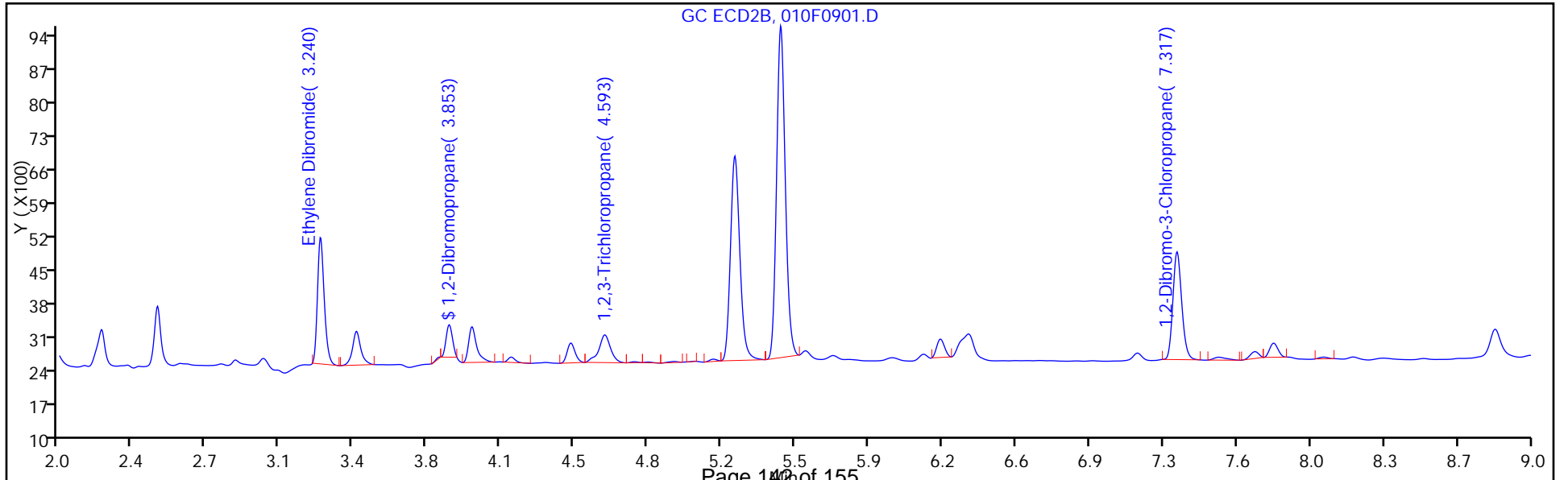
Column: Restex Rtx-502.2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Column: Restek Rtx-VRX (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



## GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-76268-3

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

Instrument ID: SGC\_E Start Date: 10/27/2015 15:55Analysis Batch Number: 301315 End Date: 10/27/2015 18:08

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD7 280-301315/4 IC		10/27/2015 15:55	1	003F0301.D	RTX 502.2 0.32 (mm)
STD7 280-301315/4 IC		10/27/2015 15:55	1	003F0301.D	RTX-VRX 0.32 (mm)
STD6 280-301315/5 IC		10/27/2015 16:14	1	004F0401.D	RTX 502.2 0.32 (mm)
STD6 280-301315/5 IC		10/27/2015 16:14	1	004F0401.D	RTX-VRX 0.32 (mm)
STD5 280-301315/6 IC		10/27/2015 16:33	1	005F0501.D	RTX 502.2 0.32 (mm)
STD5 280-301315/6 IC		10/27/2015 16:33	1	005F0501.D	RTX-VRX 0.32 (mm)
STD4RT 280-301315/7 ICRT		10/27/2015 16:52	1	006F0601.D	RTX 502.2 0.32 (mm)
STD4RT 280-301315/7 ICRT		10/27/2015 16:52	1	006F0601.D	RTX-VRX 0.32 (mm)
STD3 280-301315/8 IC		10/27/2015 17:11	1	007F0701.D	RTX 502.2 0.32 (mm)
STD3 280-301315/8 IC		10/27/2015 17:11	1	007F0701.D	RTX-VRX 0.32 (mm)
STD2 280-301315/9 IC		10/27/2015 17:30	1	008F0801.D	RTX 502.2 0.32 (mm)
STD2 280-301315/9 IC		10/27/2015 17:30	1	008F0801.D	RTX-VRX 0.32 (mm)
STD1 280-301315/10 IC		10/27/2015 17:49	1	009F0901.D	RTX 502.2 0.32 (mm)
STD1 280-301315/10 IC		10/27/2015 17:49	1	009F0901.D	RTX-VRX 0.32 (mm)
ICV 280-301315/11		10/27/2015 18:08	1	010F1001.D	RTX 502.2 0.32 (mm)
ICV 280-301315/11		10/27/2015 18:08	1	010F1001.D	RTX-VRX 0.32 (mm)

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-76268-3

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

Instrument ID: SGC\_E Start Date: 11/05/2015 16:18

Analysis Batch Number: 302773 End Date: 11/05/2015 23:37

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVRT 280-302773/5		11/05/2015 16:18	1	003F0201.D	RTX 502.2 0.32 (mm)
CCVRT 280-302773/5		11/05/2015 16:18	1	003F0201.D	RTX-VRX 0.32 (mm)
MB 280-302740/2-A		11/05/2015 16:38	1	004F0301.D	RTX 502.2 0.32 (mm)
MB 280-302740/2-A		11/05/2015 16:38	1	004F0301.D	RTX-VRX 0.32 (mm)
LCS 280-302740/3-A		11/05/2015 16:57	1	005F0401.D	RTX 502.2 0.32 (mm)
LCS 280-302740/3-A		11/05/2015 16:57	1	005F0401.D	RTX-VRX 0.32 (mm)
LCSD 280-302740/4-A		11/05/2015 17:16	1	006F0501.D	RTX 502.2 0.32 (mm)
LCSD 280-302740/4-A		11/05/2015 17:16	1	006F0501.D	RTX-VRX 0.32 (mm)
ZZZZZ		11/05/2015 17:35	1		RTX 502.2 0.32 (mm)
ZZZZZ		11/05/2015 17:35	1		RTX-VRX 0.32 (mm)
280-76268-9	MW20102015	11/05/2015 17:55	1	008F0701.D	RTX 502.2 0.32 (mm)
280-76268-9	MW20102015	11/05/2015 17:55	1	008F0701.D	RTX-VRX 0.32 (mm)
280-76268-9 MS	MW20102015MS MS	11/05/2015 18:14	1	009F0801.D	RTX 502.2 0.32 (mm)
280-76268-9 MS	MW20102015MS MS	11/05/2015 18:14	1	009F0801.D	RTX-VRX 0.32 (mm)
280-76268-9 MSD	MW20102015MSD MSD	11/05/2015 18:33	1	010F0901.D	RTX 502.2 0.32 (mm)
280-76268-9 MSD	MW20102015MSD MSD	11/05/2015 18:33	1	010F0901.D	RTX-VRX 0.32 (mm)
ZZZZZ		11/05/2015 18:52	1		RTX 502.2 0.32 (mm)
ZZZZZ		11/05/2015 18:52	1		RTX-VRX 0.32 (mm)
ZZZZZ		11/05/2015 19:12	1		RTX 502.2 0.32 (mm)
ZZZZZ		11/05/2015 19:12	1		RTX-VRX 0.32 (mm)
280-76268-3	FW31102015EQU002	11/05/2015 19:31	1	013F1201.D	RTX 502.2 0.32 (mm)
280-76268-3	FW31102015EQU002	11/05/2015 19:31	1	013F1201.D	RTX-VRX 0.32 (mm)
280-76268-5	MW18D102015	11/05/2015 19:50	1	014F1301.D	RTX 502.2 0.32 (mm)
280-76268-5	MW18D102015	11/05/2015 19:50	1	014F1301.D	RTX-VRX 0.32 (mm)
280-76268-6	TMW35102015	11/05/2015 20:09	1	015F1401.D	RTX 502.2 0.32 (mm)
280-76268-6	TMW35102015	11/05/2015 20:09	1	015F1401.D	RTX-VRX 0.32 (mm)
CCV 280-302773/18		11/05/2015 20:28	1	016F1501.D	RTX 502.2 0.32 (mm)
CCV 280-302773/18		11/05/2015 20:28	1	016F1501.D	RTX-VRX 0.32 (mm)
280-76268-8	MW22D102015	11/05/2015 20:47	1	017F1601.D	RTX 502.2 0.32 (mm)
280-76268-8	MW22D102015	11/05/2015 20:47	1	017F1601.D	RTX-VRX 0.32 (mm)
280-76268-10	DMW20102015	11/05/2015 21:06	1	018F1701.D	RTX 502.2 0.32 (mm)
280-76268-10	DMW20102015	11/05/2015 21:06	1	018F1701.D	RTX-VRX 0.32 (mm)
ZZZZZ		11/05/2015 21:25	1		RTX 502.2 0.32 (mm)
ZZZZZ		11/05/2015 21:25	1		RTX-VRX 0.32 (mm)
ZZZZZ		11/05/2015 21:44	1		RTX 502.2 0.32 (mm)
ZZZZZ		11/05/2015 21:44	1		RTX-VRX 0.32 (mm)
ZZZZZ		11/05/2015 22:03	1		RTX 502.2 0.32 (mm)
ZZZZZ		11/05/2015 22:03	1		RTX-VRX 0.32 (mm)
ZZZZZ		11/05/2015 22:21	1		RTX 502.2 0.32 (mm)
ZZZZZ		11/05/2015 22:21	1		RTX-VRX 0.32 (mm)
ZZZZZ		11/05/2015 22:40	1		RTX 502.2 0.32 (mm)
ZZZZZ		11/05/2015 22:40	1		RTX-VRX 0.32 (mm)
ZZZZZ		11/05/2015 22:59	1		RTX 502.2 0.32 (mm)
ZZZZZ		11/05/2015 22:59	1		RTX-VRX 0.32 (mm)
ZZZZZ		11/05/2015 23:18	1		RTX 502.2 0.32 (mm)



GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-76268-3

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

Instrument ID: SGC\_E Start Date: 11/05/2015 16:18

Analysis Batch Number: 302773 End Date: 11/05/2015 23:37

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		11/05/2015 23:18	1		RTX-VRX 0.32 (mm)
CCV 280-302773/28		11/05/2015 23:37	1	026F2501.D	RTX 502.2 0.32 (mm)
CCV 280-302773/28		11/05/2015 23:37	1	026F2501.D	RTX-VRX 0.32 (mm)

GC SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-76268-3

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

Batch Number: 302740 Batch Start Date: 11/05/15 14:18 Batch Analyst: Cokley, Cheyana D

Batch Method: 8011 Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	504LCSWork 00050	504SurrWork 00149
MB 280-302740/2		8011, 8011/DOD				35 mL	35 mL		35 uL
LCS 280-302740/3		8011, 8011/DOD				35 mL	35 mL	35 uL	35 uL
LCS 280-302740/4		8011, 8011/DOD				35 mL	35 mL	35 uL	35 uL
280-76268-AZ-9	MW20102015	8011, 8011/DOD	T	60.81 g	25.32 g	35.5 mL	35 mL		35 uL
280-76268-BA-9 MS	MW20102015MS	8011, 8011/DOD	T	60.54 g	25.40 g	35.1 mL	35 mL	35 uL	35 uL
280-76268-BB-9 MSD	MW20102015MSD	8011, 8011/DOD	T	61.10 g	25.55 g	35.6 mL	35 mL	35 uL	35 uL
280-76268-N-3	FW31102015EQU002	8011, 8011/DOD	T	60.95 g	26.07 g	34.9 mL	35 mL		35 uL
280-76268-P-5	MW18D102015	8011, 8011/DOD	T	61.77 g	25.71 g	36.1 mL	35 mL		35 uL
280-76268-S-6	TMW35102015	8011, 8011/DOD	T	61.39 g	25.93 g	35.5 mL	35 mL		35 uL
280-76268-R-8	MW22D102015	8011, 8011/DOD	T	60.91 g	25.89 g	35 mL	35 mL		35 uL
280-76268-S-10	DMW20102015	8011, 8011/DOD	T	61.91 g	25.73 g	36.2 mL	35 mL		35 uL

Batch Notes	
Balance ID	24750525
Batch Comment	Hexane: delivered by pip:H02mLs batched @1359
Hexane Lot#	0000116331
NaCl Lot #	148298
Sufficient volume for MS/MSD?	YES

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.

8011/DOD

# Shipping and Receiving Documents

# Chain of Custody Record

TestAmerica Laboratories, Inc.

Client Contact: John Nance  
Tel: 505 835 7660  
Project Manager: John Nance  
Site Contact: John Nance 505 321 7260  
Date: 11/2/15  
COC No: FWDAOCT15-05  
I of I COCs  
Job No.

Lab Contact: Michelle Johnston  
Carrier: Federal Express  
Ignitability 1010  
PH 9046C  
TCLP Herbicides 1311/8161A  
TCLP Pesticides 1311/8081A  
Metals 6010C/6020A dissolved  
TCLP SVOCs 1311/8270D  
EDR 8011  
TCLP VOCs 1311/8260B  
TPH-GRO 8016C C8-C10  
TPH-DRO 8016C C10-C28  
ORO 8016C C24-C36  
Semivolatile Organics 8270D  
Volatile Organic Compounds 8260C  
Organochlorine Pesticides 8081A  
TAL Metals 6010C/6020A/7470A Diss.  
TAL Metals 6010C/6020A/7470A Total  
Perchlorate 6860  
Nitrate Nitrite 9056  
Explosives 8330B  
Filtered Sample

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Sample Specific Notes:
TB-08-102015	11/2/2015	08:00	Grab	GW	1	Trip Blank
TB-09-102015	11/2/2015	08:05	Grab	GW	1	Trip Blank
FW31102015EQ002	11/2/2015	09:30	Grab	GW	15	
FW31102015	11/2/2015	11:05	Grab	GW	12	
MW18D102015	11/2/2015	12:30	Grab	GW	17	
TMW35102015	11/2/2015	09:55	Grab	GW	19	
MW22S102015	11/2/2015	11:15	Grab	GW	1	Partial. Well Dry after 1 Liter.
MW22D102015	11/2/2015	12:10	Grab	GW	21	
MW20102015	11/2/2015	10:30	Grab	GW	21	
DMW20102015	11/2/2015	10:30	Grab	GW	21	
MW20102015MS	11/2/2015	10:30	Grab	GW	21	Matrix Spike
MW20102015MSD	11/2/2015	10:30	Grab	GW	21	Matrix Spike Duplicate
			Grab	GW	Y	
			Grab	GW	Y	
			Grab	GW	Y	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other  
 Possible Hazard Identification  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  
 Sample Disposal  
 Return To Client  Disposal By Lab  For 60 days after invoice

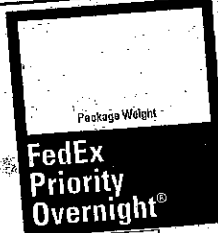
Special Instructions/QC Requirements & Comments:  
 Relinquished by: L.Hill J. Hill  
 Date/Time: 11/2/15 16:00  
 Company: CHEM HILL  
 Relinquished by: [Signature]  
 Date/Time: 11/3/15 920  
 Company: TAD  
 Relinquished by: [Signature]  
 Date/Time: [Blank]  
 Company: [Blank]

2.2, 0.7, 1.7, 0.3, 1.9, 3.1, 1.6, 0.6, 1.5, 0.6, 2.6 + 0.0 DR# F0W 11/3/15

**FedEx** Expanded Billable Stamp  
Express Use only for shipments within the U.S. Saturday delivery available.

1 From **SUNDANCE**

ORDER: 00823698  
8210 Louisiana Blvd NE, Ste  
ABQ, NM 87113  
(505) 835-7660



**Release Signature**  
For nonresidential deliveries.

Sign within this area. Please do not remove.

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

For FedEx Use Only	
Employee Number	Base Charges
Other	Total Charges

2 To Shipment will not be accepted if address below is altered.

SAMPLE RECEIVING  
TESTAMERICA DENVER  
4955 YARROW ST  
ARVADA, CO 80002  
(303) 736-0100

**NONREDEEMABLE**  
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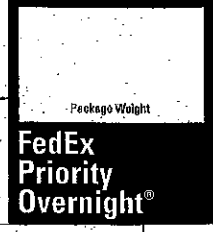


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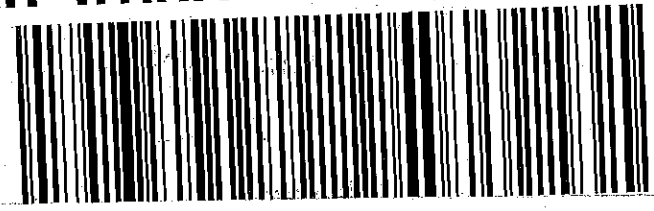
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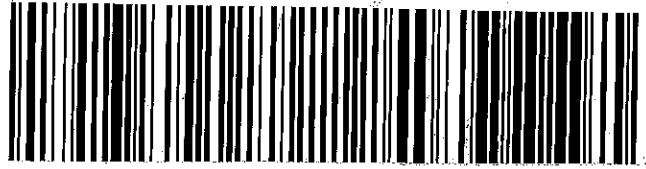
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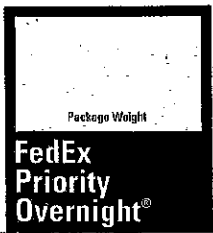
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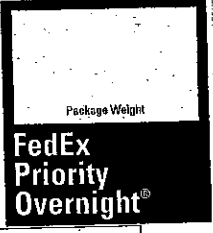
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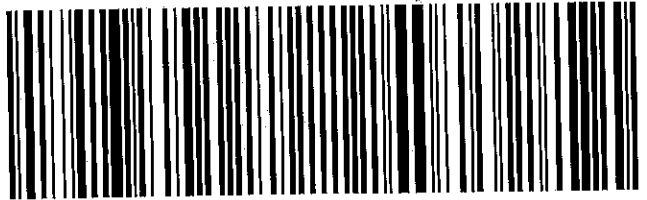
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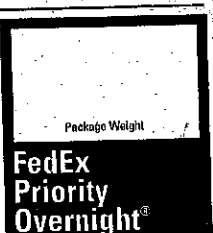
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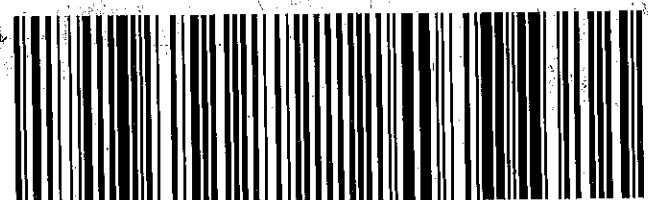
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Package Weight

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Package Weight

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Other	Total Charges

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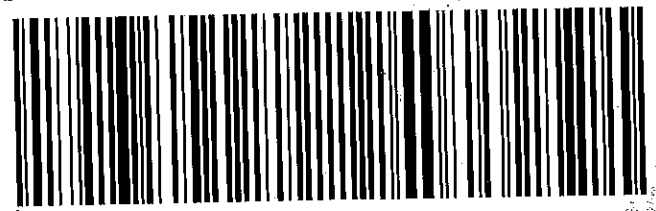
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(505) 835-7660

City  
Package Weight  
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Employee Number	Base Charges
Other	Total Charges

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SAMPLE RECEIVING  
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ARVADA, CO 80002  
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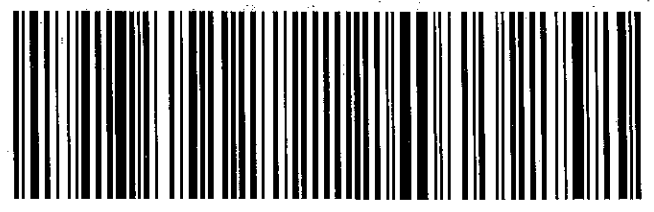
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TRK# 0667 8087 7478 0011

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Package Weight

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	Employee Number  Other	Base Charges  Total Charges

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**SATURDAY DELIVERY**  
 Shipments tendered on Friday are delivered on Saturday to most locations.

**FedEx**  
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## Login Sample Receipt Checklist

Client: Sundance Consulting, Inc

Job Number: 280-76268-3

**Login Number: 76268**  
**List Number: 1**  
**Creator: White, Denise E**

**List Source: TestAmerica Denver**

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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?	N/A	Not requested on COC.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	