

ANALYTICAL REPORT

Job Number: 460-164442-1

Job Description: 486 Sunrise Highway

For:

GEI Consultants, Inc.
110 Walt Whitman Road
Suite 204
Huntington Station, NY 11746
Attention: Christopher Morris



Approved for release.
Thomas A Chupela
Project Management Assistant I
9/14/2018 10:27 AM

Designee for
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09/14/2018

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Job Number: 460-164442-1

Job Description: 486 Sunrise Highway

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Approved for release.
Thomas A. Chupela
Project Management Assistant I
9/14/2018 10:27 AM

Designee for
Melissa Haas

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CASE NARRATIVE

Client: GEI Consultants, Inc.

Project: 486 Sunrise Highway

Report Number: 460-164442-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

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

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

RECEIPT

The samples were received on 9/12/2018 6:45 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.9° C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

1,4 DIOXANE BY 8270D SIM, ISOTOPE DILUTION

Samples PW-2S (460-164442-1), PW-1S (460-164442-2), TW-2 (460-164442-3), PW-XX-091018 (460-164442-4) and FB-091018 (460-164442-5) were analyzed for 1,4 Dioxane by 8270D SIM, Isotope Dilution in accordance with EPA SW-846 Method 8270D SIM. The samples were prepared and analyzed on 09/13/2018.

No difficulties were encountered during the 1,4 Dioxane analysis.

All quality control parameters were within the acceptance limits.

Sample Summary

Client: GEI Consultants, Inc.
Project/Site: 486 Sunrise Highway

TestAmerica Job ID: 460-164442-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-164442-1	PW-2S	Water	09/10/18 08:30	09/12/18 18:45
460-164442-2	PW-1S	Water	09/10/18 09:40	09/12/18 18:45
460-164442-3	TW-2	Water	09/10/18 10:35	09/12/18 18:45
460-164442-4	PW-XX-091018	Water	09/10/18 00:00	09/12/18 18:45
460-164442-5	FB-091018	Water	09/10/18 11:00	09/12/18 18:45

Detection Summary

Client: GEI Consultants, Inc.
Project/Site: 486 Sunrise Highway

TestAmerica Job ID: 460-164442-1

Client Sample ID: PW-2S

Lab Sample ID: 460-164442-1

☐ No Detections.

Client Sample ID: PW-1S

Lab Sample ID: 460-164442-2

☐ No Detections.

Client Sample ID: TW-2

Lab Sample ID: 460-164442-3

☐ No Detections.

Client Sample ID: PW-XX-091018

Lab Sample ID: 460-164442-4

☐ No Detections.

Client Sample ID: FB-091018

Lab Sample ID: 460-164442-5

☐ No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Edison

Method Summary

Client: GEI Consultants, Inc.
Project/Site: 486 Sunrise Highway

TestAmerica Job ID: 460-164442-1

Method	Method Description	Protocol	Laboratory
8270D SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	TAL EDI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL EDI

Protocol References:

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

Laboratory References:

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: 486 Sunrise Highway

TestAmerica Job ID: 460-164442-1

Client Sample ID: PW-2S

Date Collected: 09/10/18 08:30

Date Received: 09/12/18 18:45

Lab Sample ID: 460-164442-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.20	U	0.20	0.016	ug/L	—	09/13/18 07:55	09/13/18 16:08	1
Isotope Dilution		%Recovery	Qualifier	Limits					
1,4-Dioxane-d8		42		10 - 150					
							Prepared	Analyzed	Dil Fac
							09/13/18 07:55	09/13/18 16:08	1

Client Sample ID: PW-1S

Date Collected: 09/10/18 09:40

Date Received: 09/12/18 18:45

Lab Sample ID: 460-164442-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.20	U	0.20	0.016	ug/L	—	09/13/18 07:55	09/13/18 16:26	1
Isotope Dilution		%Recovery	Qualifier	Limits					
1,4-Dioxane-d8		42		10 - 150					
							Prepared	Analyzed	Dil Fac
							09/13/18 07:55	09/13/18 16:26	1

Client Sample ID: TW-2

Date Collected: 09/10/18 10:35

Date Received: 09/12/18 18:45

Lab Sample ID: 460-164442-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.20	U	0.20	0.016	ug/L	—	09/13/18 07:55	09/13/18 16:44	1
Isotope Dilution		%Recovery	Qualifier	Limits					
1,4-Dioxane-d8		37		10 - 150					
							Prepared	Analyzed	Dil Fac
							09/13/18 07:55	09/13/18 16:44	1

Client Sample ID: PW-XX-091018

Date Collected: 09/10/18 00:00

Date Received: 09/12/18 18:45

Lab Sample ID: 460-164442-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.20	U	0.20	0.016	ug/L	—	09/13/18 07:55	09/13/18 17:02	1
Isotope Dilution		%Recovery	Qualifier	Limits					
1,4-Dioxane-d8		37		10 - 150					
							Prepared	Analyzed	Dil Fac
							09/13/18 07:55	09/13/18 17:02	1

Client Sample ID: FB-091018

Date Collected: 09/10/18 11:00

Date Received: 09/12/18 18:45

Lab Sample ID: 460-164442-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.20	U	0.20	0.016	ug/L	—	09/13/18 07:55	09/13/18 17:19	1
Isotope Dilution		%Recovery	Qualifier	Limits					
1,4-Dioxane-d8		37		10 - 150					
							Prepared	Analyzed	Dil Fac
							09/13/18 07:55	09/13/18 17:19	1

Isotope Dilution Summary

Client: GEI Consultants, Inc.
Project/Site: 486 Sunrise Highway

TestAmerica Job ID: 460-164442-1

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

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DXE (10-150)							
460-164442-1	PW-2S	42							
460-164442-2	PW-1S	42							
460-164442-3	TW-2	37							
460-164442-3 MS	TW-2	37							
460-164442-3 MSD	TW-2	38							
460-164442-4	PW-XX-091018	37							
460-164442-5	FB-091018	37							
MB 460-551834/1-A	Method Blank	38							

Surrogate Legend

DXE = 1,4-Dioxane-d8

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

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DXE (10-200)							
LCS 460-551834/2-A	Lab Control Sample	37							

Surrogate Legend

DXE = 1,4-Dioxane-d8

QC Sample Results

Client: GEI Consultants, Inc.
Project/Site: 486 Sunrise Highway

TestAmerica Job ID: 460-164442-1

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

Lab Sample ID: MB 460-551834/1-A
Matrix: Water
Analysis Batch: 551949

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 551834

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.20	U	0.20	0.016	ug/L	-	09/13/18 07:55	09/13/18 14:57	1
Isotope Dilution	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	38		10 - 150				09/13/18 07:55	09/13/18 14:57	1

Lab Sample ID: LCS 460-551834/2-A
Matrix: Water
Analysis Batch: 551949

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 551834

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane			1.60	1.59		ug/L	-	100	10 - 200
Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits						
1,4-Dioxane-d8	37		10 - 200						

Lab Sample ID: 460-164442-3 MS
Matrix: Water
Analysis Batch: 551949

Client Sample ID: TW-2
Prep Type: Total/NA
Prep Batch: 551834

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	0.20	U	1.60	1.53		ug/L	-	96	70 - 130
Isotope Dilution	MS %Recovery	MS Qualifier	Limits						
1,4-Dioxane-d8	37		10 - 150						

Lab Sample ID: 460-164442-3 MSD
Matrix: Water
Analysis Batch: 551949

Client Sample ID: TW-2
Prep Type: Total/NA
Prep Batch: 551834

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	0.20	U	1.60	1.55		ug/L	-	97	70 - 130	1	20
Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits								
1,4-Dioxane-d8	38		10 - 150								

Definitions/Glossary

Client: GEI Consultants, Inc.
Project/Site: 486 Sunrise Highway

TestAmerica Job ID: 460-164442-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Analyzed for but not detected.

Glossary

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

QC Association Summary

Client: GEI Consultants, Inc.
Project/Site: 486 Sunrise Highway

TestAmerica Job ID: 460-164442-1

GC/MS Semi VOA

Prep Batch: 551834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-164442-1	PW-2S	Total/NA	Water	3510C	
460-164442-2	PW-1S	Total/NA	Water	3510C	
460-164442-3	TW-2	Total/NA	Water	3510C	
460-164442-4	PW-XX-091018	Total/NA	Water	3510C	
460-164442-5	FB-091018	Total/NA	Water	3510C	
MB 460-551834/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-551834/2-A	Lab Control Sample	Total/NA	Water	3510C	
460-164442-3 MS	TW-2	Total/NA	Water	3510C	
460-164442-3 MSD	TW-2	Total/NA	Water	3510C	

Analysis Batch: 551949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-164442-1	PW-2S	Total/NA	Water	8270D SIM ID	551834
460-164442-2	PW-1S	Total/NA	Water	8270D SIM ID	551834
460-164442-3	TW-2	Total/NA	Water	8270D SIM ID	551834
460-164442-4	PW-XX-091018	Total/NA	Water	8270D SIM ID	551834
460-164442-5	FB-091018	Total/NA	Water	8270D SIM ID	551834
MB 460-551834/1-A	Method Blank	Total/NA	Water	8270D SIM ID	551834
LCS 460-551834/2-A	Lab Control Sample	Total/NA	Water	8270D SIM ID	551834
460-164442-3 MS	TW-2	Total/NA	Water	8270D SIM ID	551834
460-164442-3 MSD	TW-2	Total/NA	Water	8270D SIM ID	551834

Lab Chronicle

Client: GEI Consultants, Inc.
Project/Site: 486 Sunrise Highway

TestAmerica Job ID: 460-164442-1

Client Sample ID: PW-2S

Date Collected: 09/10/18 08:30

Date Received: 09/12/18 18:45

Lab Sample ID: 460-164442-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			551834	09/13/18 07:55	ANM	TAL EDI
Total/NA	Analysis	8270D SIM ID		1	551949	09/13/18 16:08	SK	TAL EDI

Client Sample ID: PW-1S

Date Collected: 09/10/18 09:40

Date Received: 09/12/18 18:45

Lab Sample ID: 460-164442-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			551834	09/13/18 07:55	ANM	TAL EDI
Total/NA	Analysis	8270D SIM ID		1	551949	09/13/18 16:26	SK	TAL EDI

Client Sample ID: TW-2

Date Collected: 09/10/18 10:35

Date Received: 09/12/18 18:45

Lab Sample ID: 460-164442-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			551834	09/13/18 07:55	ANM	TAL EDI
Total/NA	Analysis	8270D SIM ID		1	551949	09/13/18 16:44	SK	TAL EDI

Client Sample ID: PW-XX-091018

Date Collected: 09/10/18 00:00

Date Received: 09/12/18 18:45

Lab Sample ID: 460-164442-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			551834	09/13/18 07:55	ANM	TAL EDI
Total/NA	Analysis	8270D SIM ID		1	551949	09/13/18 17:02	SK	TAL EDI

Client Sample ID: FB-091018

Date Collected: 09/10/18 11:00

Date Received: 09/12/18 18:45

Lab Sample ID: 460-164442-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			551834	09/13/18 07:55	ANM	TAL EDI
Total/NA	Analysis	8270D SIM ID		1	551949	09/13/18 17:19	SK	TAL EDI

Laboratory References:

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: GEI Consultants, Inc.
Project/Site: 486 Sunrise Highway

TestAmerica Job ID: 460-164442-1

Laboratory: TestAmerica Edison

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

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11452	04-01-19

8270D_SIM_MS_ID

Semivolatile Organic Compounds
(GC/MS SIM / Isotope Dilution)

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Edison

Job No.: 460-164442-1

SDG No.: _____

Matrix: Water

Level: Low

GC Column (1): Rtxi-5Sil M ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	DXE #
PW-2S	460-164442-1	42
PW-1S	460-164442-2	42
TW-2	460-164442-3	37
PW-XX-091018	460-164442-4	37
FB-091018	460-164442-5	37
	MB 460-551834/1-A	38
TW-2 MS	460-164442-3 MS	37
TW-2 MSD	460-164442-3 MSD	38

DXE = 1,4-Dioxane-d8

QC LIMITS
10-150

Column to be used to flag recovery values

FORM II 8270D SIM ID

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Edison

Job No.: 460-164442-1

SDG No.: _____

Matrix: Water

Level: Low

GC Column (1): Rtxi-5Sil M ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	DXE #
	LCS 460-551834/2-A	37

DXE = 1,4-Dioxane-d8

QC LIMITS
10-200

Column to be used to flag recovery values

FORM II 8270D SIM ID

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-164442-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: C31770.D
Lab ID: LCS 460-551834/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,4-Dioxane	1.60	1.59	100	10-200	
1,4-Dioxane-d8	32.0	11.9	37	10-200	

Column to be used to flag recovery and RPD values

FORM III 8270D SIM ID

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-164442-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: C31771.D
Lab ID: 460-164442-3 MS Client ID: TW-2 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,4-Dioxane	1.60	0.20 U	1.53	96	70-130	
1,4-Dioxane-d8	32.0	12	11.9	37	10-150	

Column to be used to flag recovery and RPD values

FORM III 8270D SIM ID

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-164442-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: C31772.D
Lab ID: 460-164442-3 MSD Client ID: TW-2 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,4-Dioxane	1.60	1.55	97	1	20	70-130	
1,4-Dioxane-d8	32.0	12.1	38			10-150	

Column to be used to flag recovery and RPD values

FORM III 8270D SIM ID

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-164442-1
SDG No.: _____
Lab File ID: C31769.D Lab Sample ID: MB 460-551834/1-A
Matrix: Water Date Extracted: 09/13/2018 07:55
Instrument ID: CBNAMS13 Date Analyzed: 09/13/2018 14:57
Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 460-551834/2-A	C31770.D	09/13/2018 15:15
TW-2 MS	460-164442-3 MS	C31771.D	09/13/2018 15:33
TW-2 MSD	460-164442-3 MSD	C31772.D	09/13/2018 15:50
PW-2S	460-164442-1	C31773.D	09/13/2018 16:08
PW-1S	460-164442-2	C31774.D	09/13/2018 16:26
TW-2	460-164442-3	C31775.D	09/13/2018 16:44
PW-XX-091018	460-164442-4	C31776.D	09/13/2018 17:02
FB-091018	460-164442-5	C31777.D	09/13/2018 17:19

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Edison Job No.: 460-164442-1
SDG No.: _____
Lab File ID: C28985.D DFTPP Injection Date: 05/11/2018
Instrument ID: CBNAMS13 DFTPP Injection Time: 12:33
Analysis Batch No.: 518314

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0 % of mass 198	42.1
68	Less than 2.0 % of mass 69	0.7 (1.8) 1
69	Mass 69 relative abundance	40.1
70	Less than 2.0 % of mass 69	0.2 (0.4) 1
127	40.0 - 60.0 % of mass 198	47.0
197	Less than 1.0 % of mass 198	0.0
198	Base Peak, 100 % relative abundance	100.0
199	5.0- 9.0 % of mass 198	6.7
275	10.0 - 30.0 % of mass 198	26.5
365	Greater than 1.0 % of mass 198	3.4
441	Present but less than mass 443	15.2 (79.7) 3
442	Greater than 40.0 % of mass 198	94.8
443	17.0 - 23.0 % of mass 442	19.1 (20.1) 2

1-Value is % mass 69 2-Value is % mass 442 3-Value is % mass 443

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	ICIS 460-518314/2	C28986.D	05/11/2018	12:48
	STD8 460-518314/3	C28987.D	05/11/2018	13:08
	STD7 460-518314/4	C28988.D	05/11/2018	13:27
	STD6 460-518314/5	C28989.D	05/11/2018	14:16
	STD4 460-518314/6	C28990.D	05/11/2018	14:35
	STD3 460-518314/7	C28991.D	05/11/2018	15:44
	STD2 460-518314/8	C28992.D	05/11/2018	16:02
	STD1 460-518314/9	C28993.D	05/11/2018	17:20

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Edison Job No.: 460-164442-1
SDG No.: _____
Lab File ID: C31767.D DFTPP Injection Date: 09/13/2018
Instrument ID: CBNAMS13 DFTPP Injection Time: 14:13
Analysis Batch No.: 551949

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0 % of mass 198	37.1
68	Less than 2.0 % of mass 69	0.7 (1.8) 1
69	Mass 69 relative abundance	36.8
70	Less than 2.0 % of mass 69	0.2 (0.5) 1
127	40.0 - 60.0 % of mass 198	48.3
197	Less than 1.0 % of mass 198	0.5
198	Base Peak, 100 % relative abundance	100.0
199	5.0- 9.0 % of mass 198	6.9
275	10.0 - 30.0 % of mass 198	25.1
365	Greater than 1.0 % of mass 198	3.0
441	Present but less than mass 443	12.8 (79.0) 3
442	Greater than 40.0 % of mass 198	84.0
443	17.0 - 23.0 % of mass 442	16.2 (19.3) 2

1-Value is % mass 69 2-Value is % mass 442 3-Value is % mass 443

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 460-551949/2	C31768.D	09/13/2018	14:33
	MB 460-551834/1-A	C31769.D	09/13/2018	14:57
	LCS 460-551834/2-A	C31770.D	09/13/2018	15:15
TW-2 MS	460-164442-3 MS	C31771.D	09/13/2018	15:33
TW-2 MSD	460-164442-3 MSD	C31772.D	09/13/2018	15:50
PW-2S	460-164442-1	C31773.D	09/13/2018	16:08
PW-1S	460-164442-2	C31774.D	09/13/2018	16:26
TW-2	460-164442-3	C31775.D	09/13/2018	16:44
PW-XX-091018	460-164442-4	C31776.D	09/13/2018	17:02
FB-091018	460-164442-5	C31777.D	09/13/2018	17:19

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

Lab Name: TestAmerica Edison Job No.: 460-164442-1
 SDG No.: _____
 Sample No.: CCVIS 460-551949/2 Date Analyzed: 09/13/2018 14:33
 Instrument ID: CBNAMS13 GC Column: Rtxi-5Sil MS ID: 0.25 (mm)
 Lab File ID (Standard): C31768.D Heated Purge: (Y/N) N
 Calibration ID: 68479

		DCBd4					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		520832	5.72				
UPPER LIMIT							
LOWER LIMIT							
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 460-551834/1-A		493209	5.72				
LCS 460-551834/2-A		523677	5.72				
460-164442-3 MS	TW-2 MS	523900	5.72				
460-164442-3 MSD	TW-2 MSD	558245	5.72				
460-164442-1	PW-2S	557121	5.72				
460-164442-2	PW-1S	517834	5.71				
460-164442-3	TW-2	536826	5.72				
460-164442-4	PW-XX-091018	538114	5.72				
460-164442-5	FB-091018	553757	5.72				

Column used to flag values outside QC limits

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-164442-1
SDG No.: _____
Client Sample ID: PW-2S Lab Sample ID: 460-164442-1
Matrix: Water Lab File ID: C31773.D
Analysis Method: 8270D SIM ID Date Collected: 09/10/2018 08:30
Extract. Method: 3510C Date Extracted: 09/13/2018 07:55
Sample wt/vol: 250 (mL) Date Analyzed: 09/13/2018 16:08
Con. Extract Vol.: 2 (mL) Dilution Factor: 1
Injection Volume: 5 (uL) Level: (low/med) Low
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 551949 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.20	U	0.20	0.016

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	42		10-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180913-78623.b\C31773.D
 Lims ID: 460-164442-A-1-A
 Client ID: PW-2S
 Sample Type: Client
 Inject. Date: 13-Sep-2018 16:08:30 ALS Bottle#: 7 Worklist Smp#: 7
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0078623-007
 Operator ID: bes Instrument ID: CBNAMS13
 Method: \\ChromNA\Edison\ChromData\CBNAMS13\20180913-78623.b\8270_Isotope.m
 Limit Group: MSS 8270 Isotope Dilution IS
 Last Update: 14-Sep-2018 08:26:46 Calib Date: 11-May-2018 17:20:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28993.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK025

First Level Reviewer: zhaoc

Date: 13-Sep-2018 16:28:27

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	%Rec	Flags
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D 1	1,4-Dioxane-d8	96	3.000	3.014	-0.014	0	1850581	1.68	42.0
* 4	1,4-Dichlorobenzene-d4	152	5.715	5.715	0.000	98	557121	0.2000	

Reagents:

SM_iso_d4istd_00003 Amount Added: 20.00 Units: uL Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS13\\20180913-78623.b\\C31773.D

Injection Date: 13-Sep-2018 16:08:30

Instrument ID: CBNAMS13

Operator ID: bes

Lims ID: 460-164442-A-1-A

Lab Sample ID: 460-164442-1

Worklist Smp#: 7

Client ID: PW-2S

Injection Vol: 5.0 ul

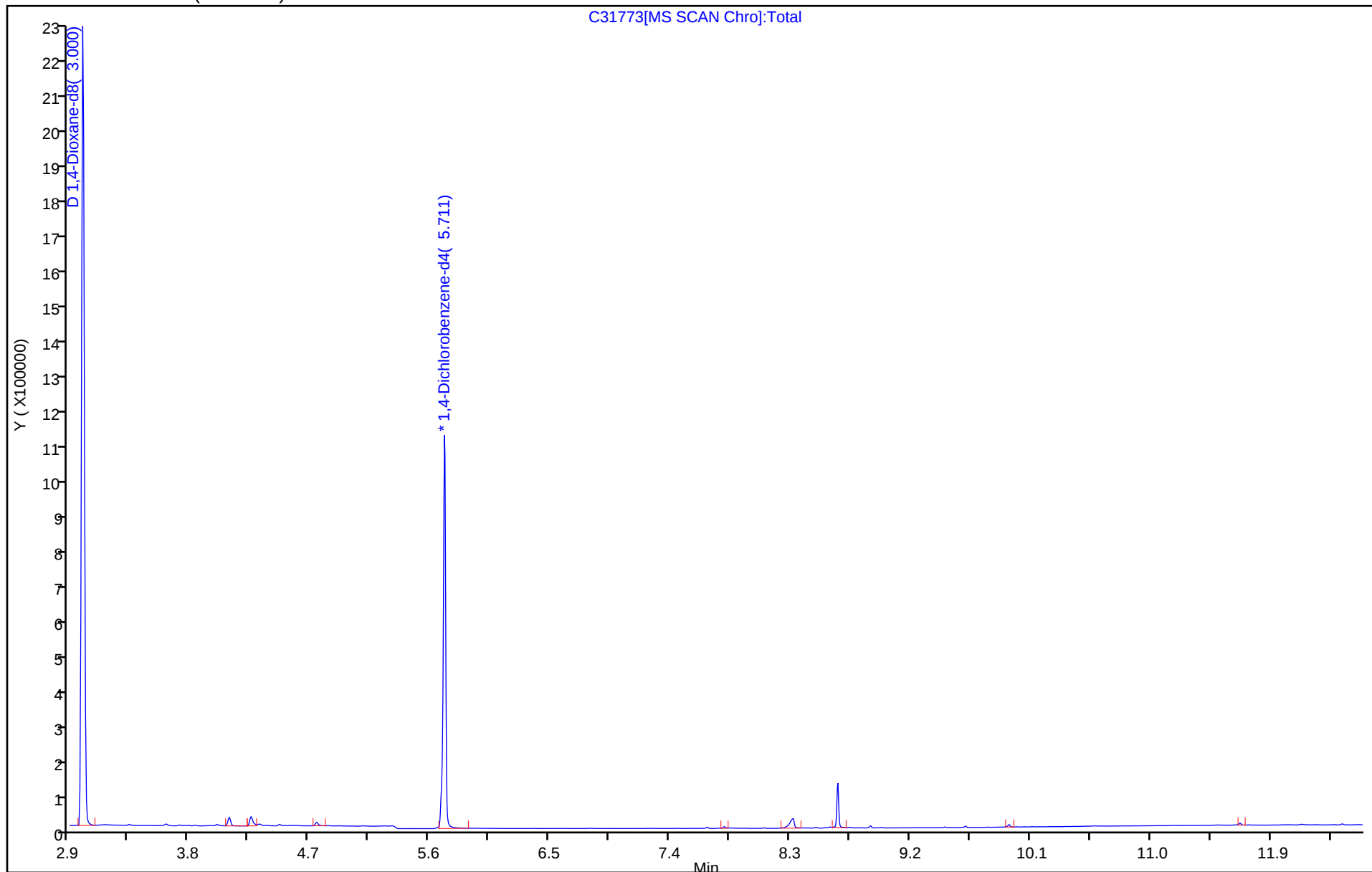
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: 8270_Isotope

Limit Group: MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180913-78623.b\C31773.D

Injection Date: 13-Sep-2018 16:08:30

Instrument ID: CBNAMS13

Lims ID: 460-164442-A-1-A

Lab Sample ID: 460-164442-1

Client ID: PW-2S

Operator ID: bes

ALS Bottle#: 7 Worklist Smp#: 7

Injection Vol: 5.0 ul

Dil. Factor: 1.0000

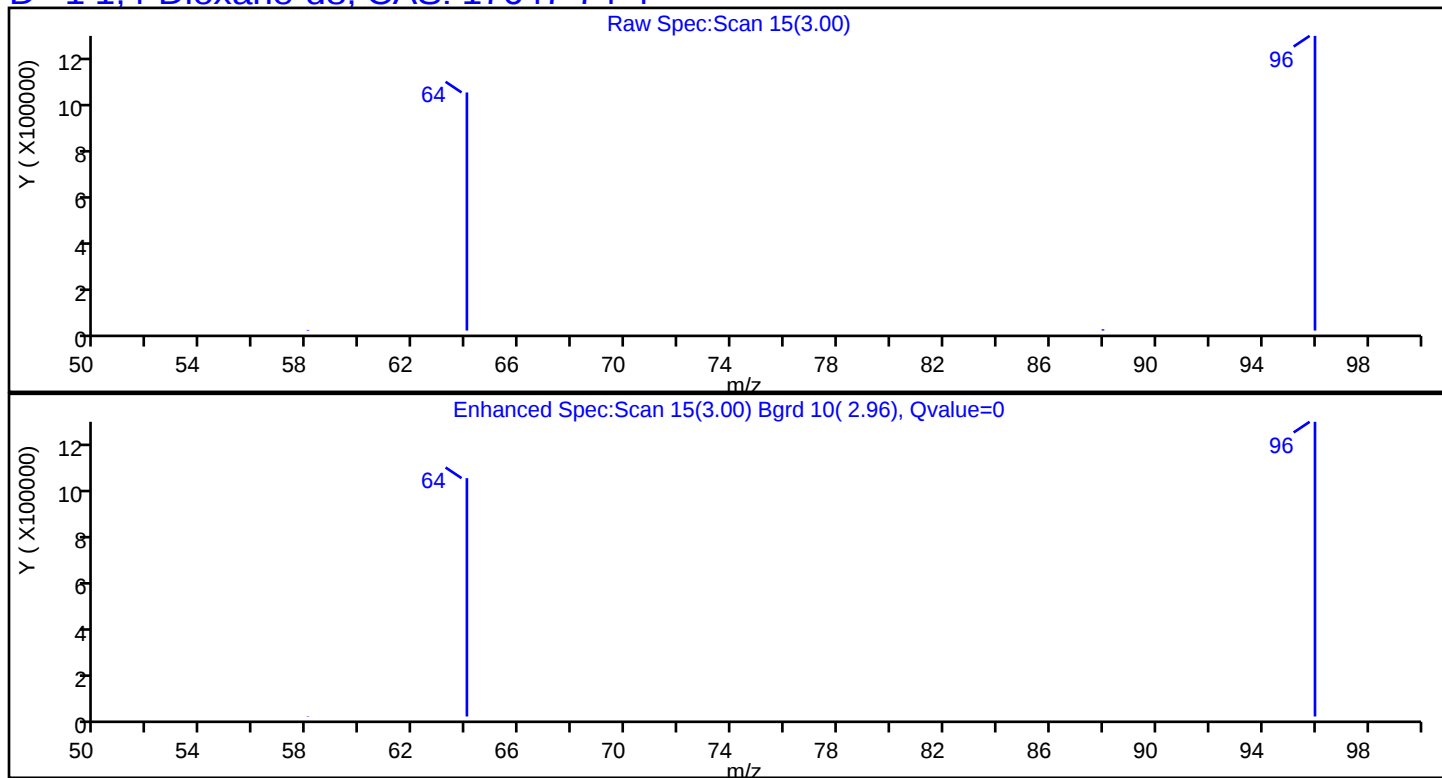
Method: 8270_Isotope

Limit Group: MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS (0.25 mm)

Detector MS SCAN

D 1 1,4-Dioxane-d8, CAS: 17647-74-4



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180913-78623.b\C31773.D

Injection Date: 13-Sep-2018 16:08:30

Instrument ID: CBNAMS13

Lims ID: 460-164442-A-1-A

Lab Sample ID: 460-164442-1

Client ID: PW-2S

Operator ID: bes

ALS Bottle#:

7

Worklist Smp#: 7

Injection Vol: 5.0 ul

Dil. Factor: 1.0000

Method: 8270_Isotope

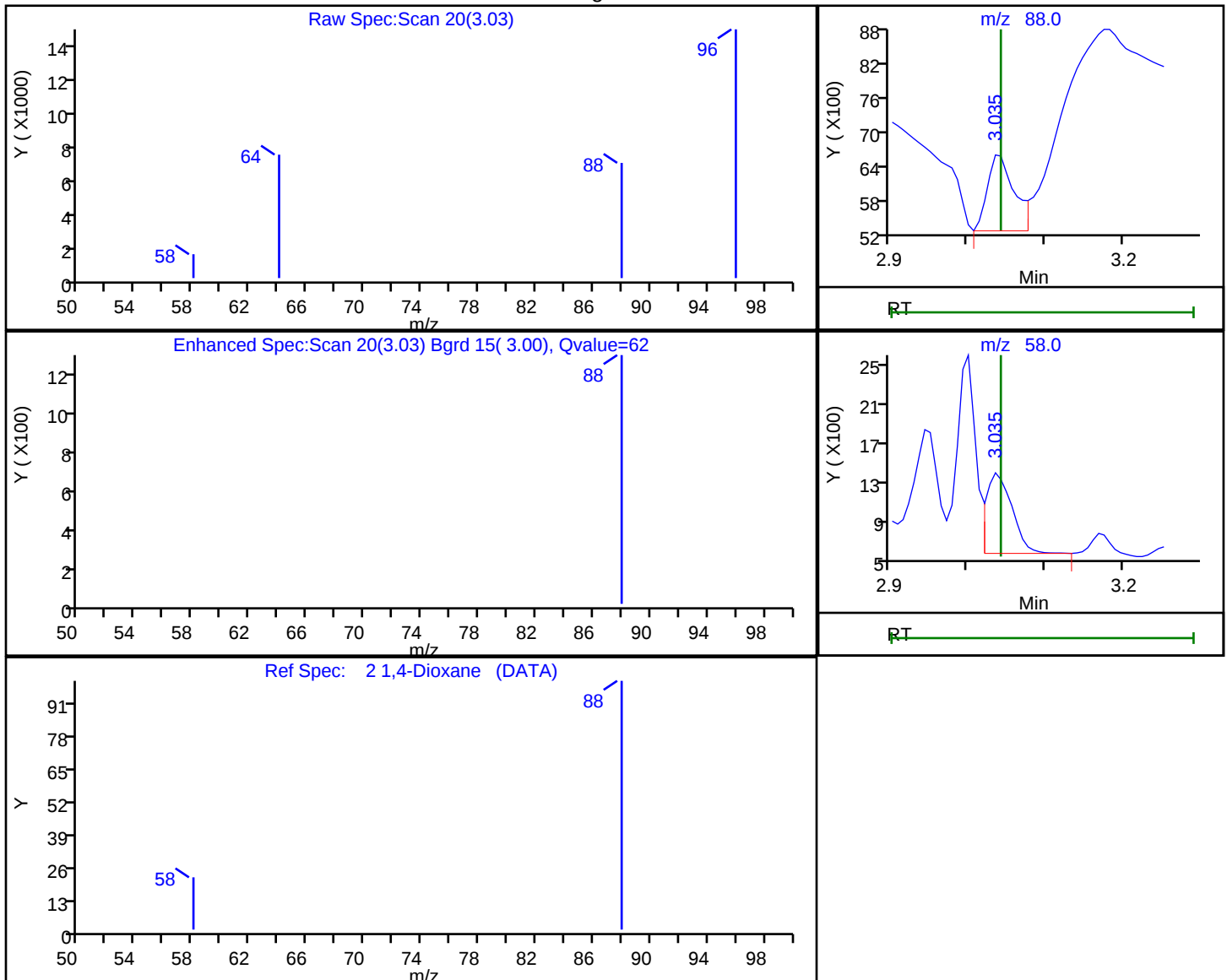
Limit Group: MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS (0.25 mm)

Detector: MS SCAN

2 1,4-Dioxane, CAS: 123-91-1

Processing Results



RT	Mass	Response	Amount
3.03	88.00	3315	0.005534
3.03	58.00	1901	

Reviewer: khlungprakhons, 14-Sep-2018 18:54:08

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-164442-1
 SDG No.: _____
 Client Sample ID: PW-1S Lab Sample ID: 460-164442-2
 Matrix: Water Lab File ID: C31774.D
 Analysis Method: 8270D SIM ID Date Collected: 09/10/2018 09:40
 Extract. Method: 3510C Date Extracted: 09/13/2018 07:55
 Sample wt/vol: 250 (mL) Date Analyzed: 09/13/2018 16:26
 Con. Extract Vol.: 2 (mL) Dilution Factor: 1
 Injection Volume: 5 (uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 551949 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.20	U	0.20	0.016

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	42		10-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180913-78623.b\C31774.D
 Lims ID: 460-164442-A-2-A
 Client ID: PW-1S
 Sample Type: Client
 Inject. Date: 13-Sep-2018 16:26:30 ALS Bottle#: 8 Worklist Smp#: 8
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0078623-008
 Operator ID: bes Instrument ID: CBNAMS13
 Method: \\ChromNA\Edison\ChromData\CBNAMS13\20180913-78623.b\8270_Isotope.m
 Limit Group: MSS 8270 Isotope Dilution IS
 Last Update: 14-Sep-2018 08:26:46 Calib Date: 11-May-2018 17:20:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28993.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK025

First Level Reviewer: hamziy

Date: 13-Sep-2018 20:30:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	%Rec	Flags
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D 1	1,4-Dioxane-d8	96	3.007	3.014	-0.007	0	1714825	1.68	41.9
* 4	1,4-Dichlorobenzene-d4	152	5.711	5.715	-0.004	97	517834	0.2000	

Reagents:

SM_iso_d4istd_00003 Amount Added: 20.00 Units: uL Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS13\\20180913-78623.b\\C31774.D

Injection Date: 13-Sep-2018 16:26:30

Instrument ID: CBNAMS13

Operator ID: bes

Lims ID: 460-164442-A-2-A

Lab Sample ID: 460-164442-2

Worklist Smp#: 8

Client ID: PW-1S

Injection Vol: 5.0 ul

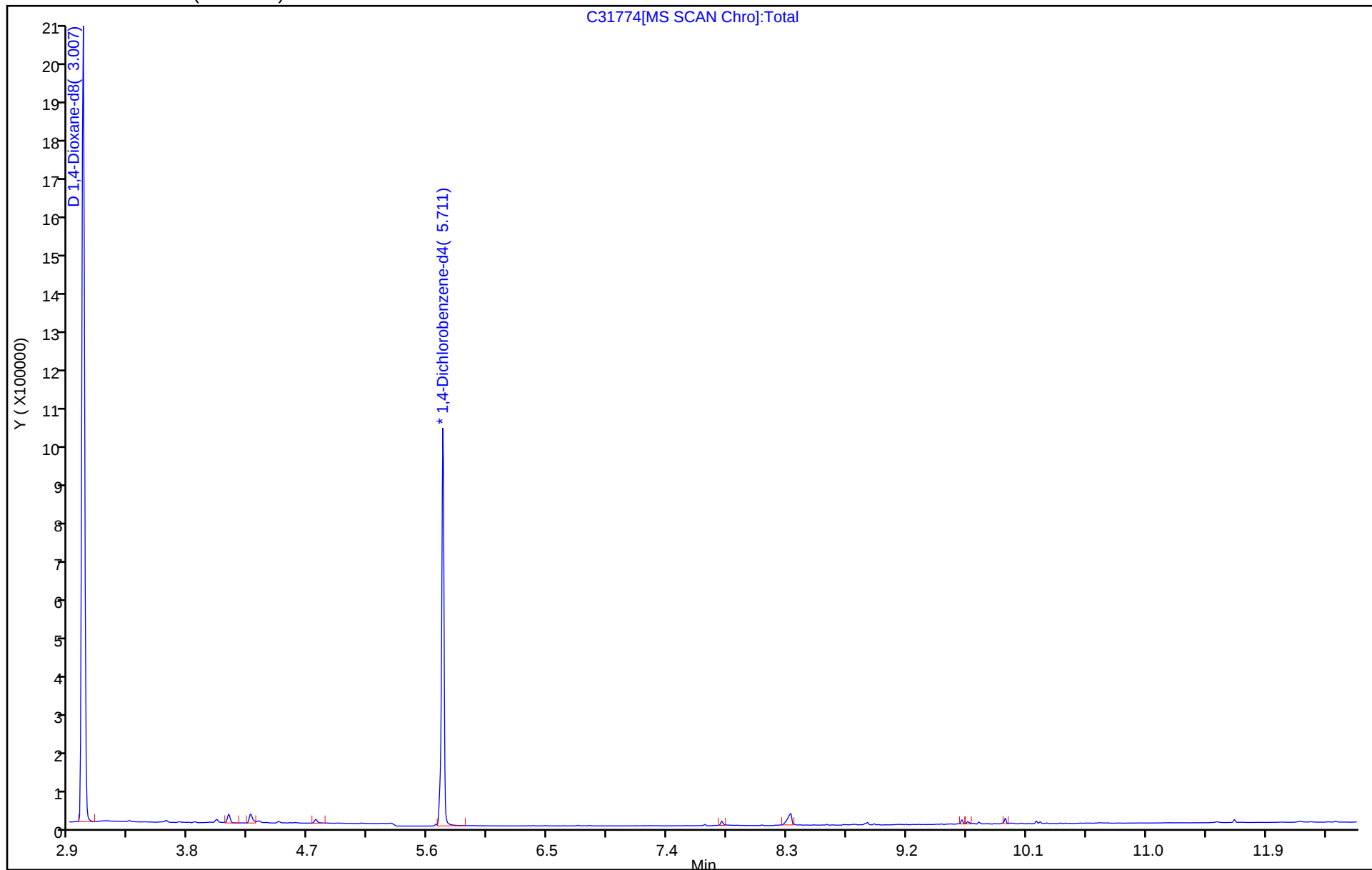
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: 8270_Isotope

Limit Group: MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180913-78623.b\C31774.D

Injection Date: 13-Sep-2018 16:26:30

Instrument ID: CBNAMS13

Lims ID: 460-164442-A-2-A

Lab Sample ID: 460-164442-2

Client ID: PW-1S

Operator ID: bes

ALS Bottle#: 8 Worklist Smp#: 8

Injection Vol: 5.0 ul

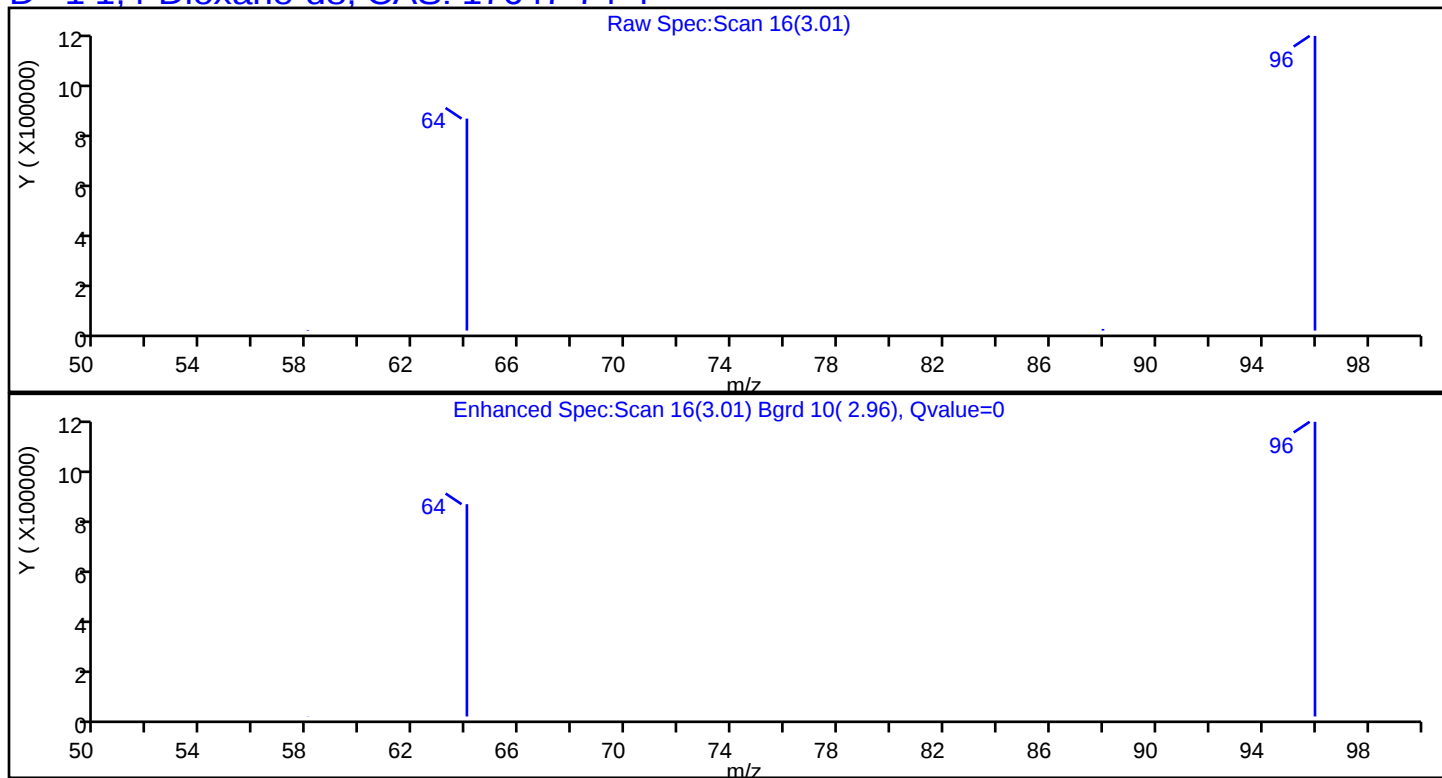
Dil. Factor: 1.0000

Method: 8270_Isotope

Limit Group: MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS (0.25 mm)

Detector MS SCAN

D 1 1,4-Dioxane-d8, CAS: 17647-74-4

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS13\\20180913-78623.b\\C31774.D

Injection Date: 13-Sep-2018 16:26:30

Instrument ID: CBNAMS13

Lims ID: 460-164442-A-2-A

Lab Sample ID: 460-164442-2

Client ID: PW-1S

Operator ID: bes

ALS Bottle#:

8

Worklist Smp#: 8

Injection Vol: 5.0 ul

Dil. Factor: 1.0000

Method: 8270_Isotope

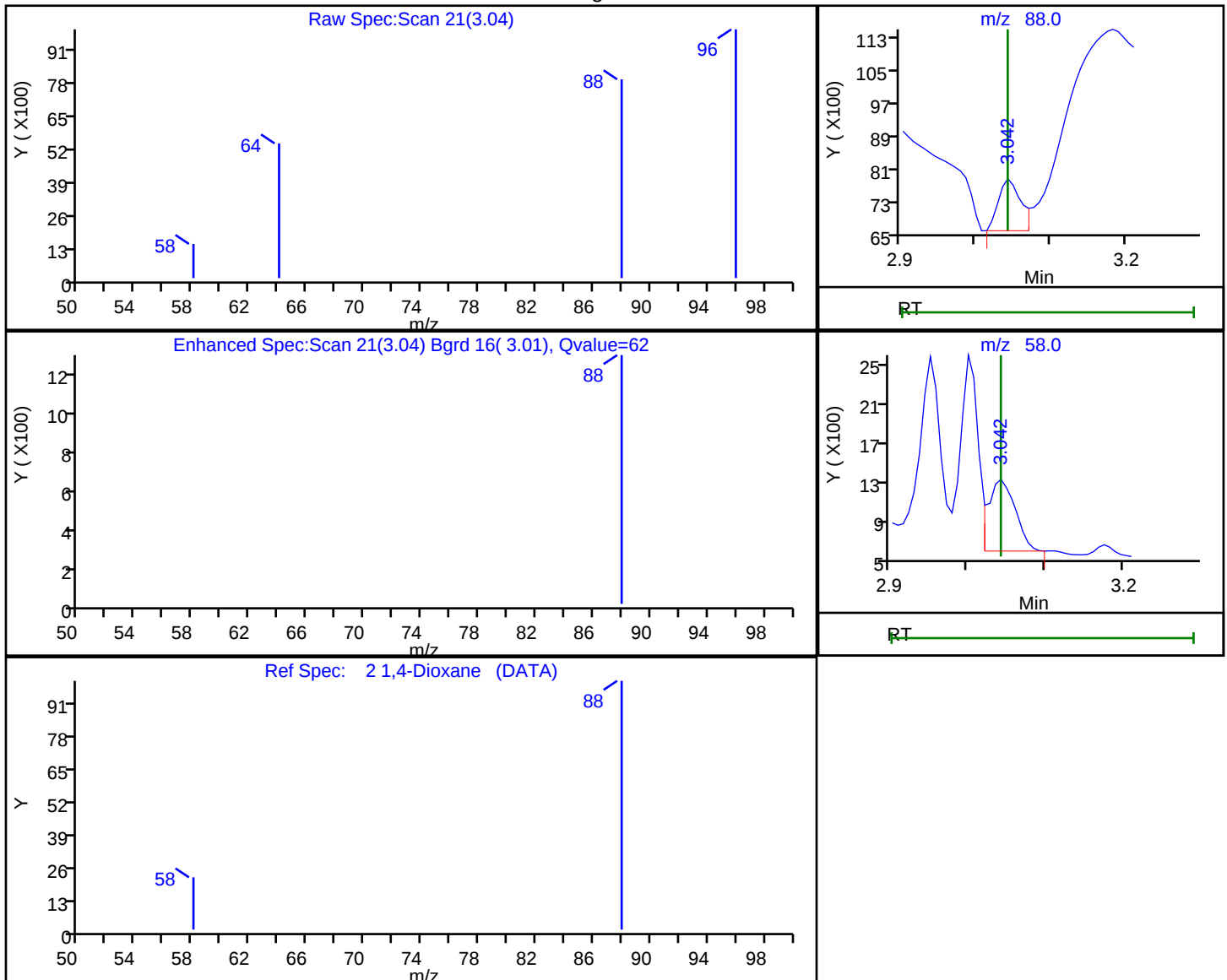
Limit Group: MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS (0.25 mm)

Detector: MS SCAN

2 1,4-Dioxane, CAS: 123-91-1

Processing Results



RT	Mass	Response	Amount
3.04	88.00	2687	0.004841
3.04	58.00	1704	

Reviewer: khlungprakhons, 14-Sep-2018 18:54:21

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-164442-1
 SDG No.: _____
 Client Sample ID: TW-2 Lab Sample ID: 460-164442-3
 Matrix: Water Lab File ID: C31775.D
 Analysis Method: 8270D SIM ID Date Collected: 09/10/2018 10:35
 Extract. Method: 3510C Date Extracted: 09/13/2018 07:55
 Sample wt/vol: 250 (mL) Date Analyzed: 09/13/2018 16:44
 Con. Extract Vol.: 2 (mL) Dilution Factor: 1
 Injection Volume: 5 (uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 551949 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.20	U	0.20	0.016

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	37		10-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180913-78623.b\C31775.D
 Lims ID: 460-164442-B-3-B
 Client ID: TW-2
 Sample Type: Client
 Inject. Date: 13-Sep-2018 16:44:30 ALS Bottle#: 9 Worklist Smp#: 9
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0078623-009
 Operator ID: bes Instrument ID: CBNAMS13
 Method: \\ChromNA\Edison\ChromData\CBNAMS13\20180913-78623.b\8270_Isotope.m
 Limit Group: MSS 8270 Isotope Dilution IS
 Last Update: 14-Sep-2018 08:26:46 Calib Date: 11-May-2018 17:20:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28993.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK025

First Level Reviewer: hamziy

Date: 13-Sep-2018 20:30:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	%Rec	Flags
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D 1	1,4-Dioxane-d8	96	3.000	3.014	-0.014	0	1564687	1.47	36.9
* 4	1,4-Dichlorobenzene-d4	152	5.715	5.715	0.000	97	536826	0.2000	

Reagents:

SM_iso_d4istd_00003 Amount Added: 20.00 Units: uL Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS13\\20180913-78623.b\\C31775.D

Injection Date: 13-Sep-2018 16:44:30

Instrument ID: CBNAMS13

Operator ID: bes

Lims ID: 460-164442-B-3-B

Lab Sample ID: 460-164442-3

Worklist Smp#: 9

Client ID: TW-2

Injection Vol: 5.0 ul

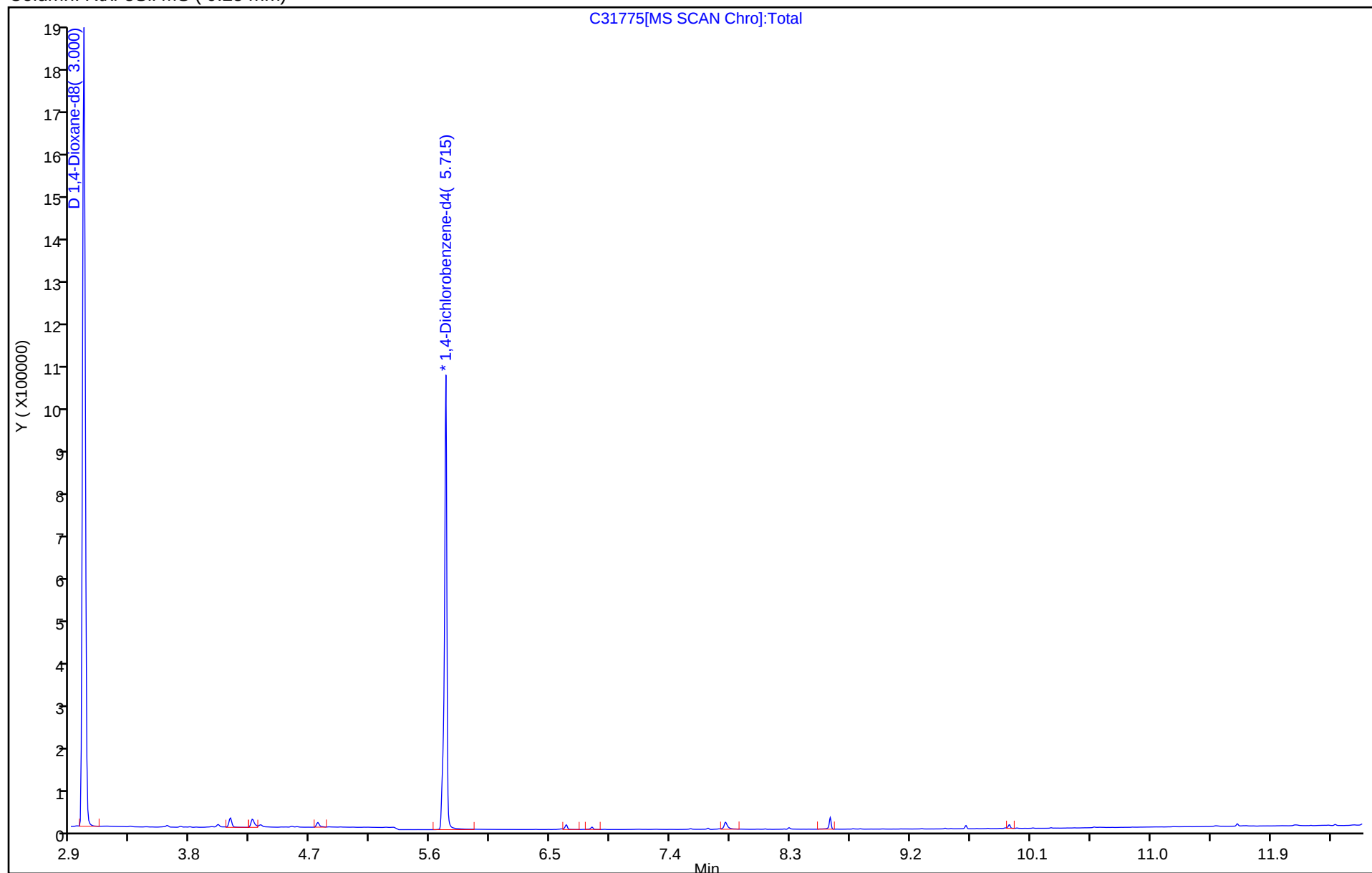
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: 8270_Isotope

Limit Group: MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180913-78623.b\C31775.D

Injection Date: 13-Sep-2018 16:44:30

Instrument ID: CBNAMS13

Lims ID: 460-164442-B-3-B

Lab Sample ID: 460-164442-3

Client ID: TW-2

Operator ID: bes

ALS Bottle#: 9 Worklist Smp#: 9

Injection Vol: 5.0 ul

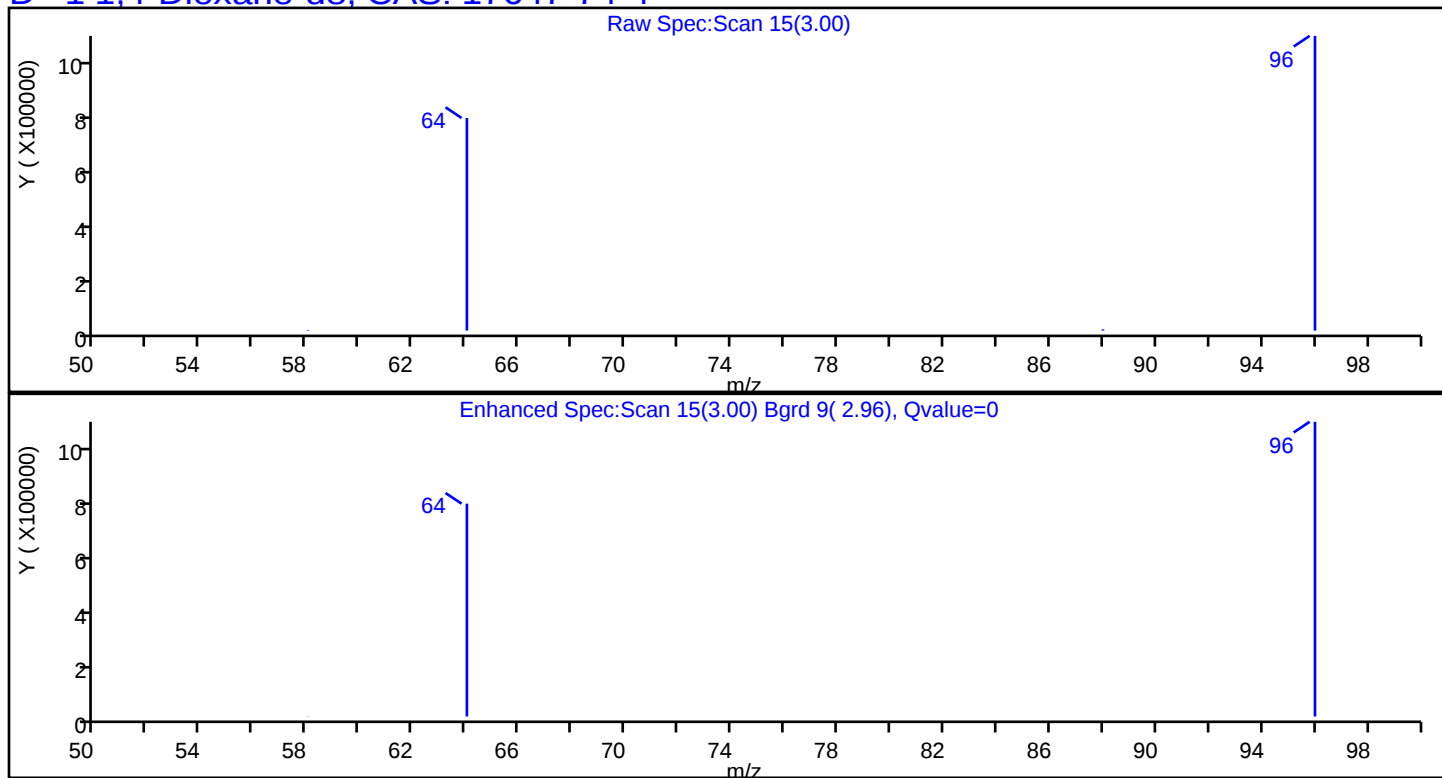
Dil. Factor: 1.0000

Method: 8270_Isotope

Limit Group: MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS (0.25 mm)

Detector MS SCAN

D 1 1,4-Dioxane-d8, CAS: 17647-74-4

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180913-78623.b\C31775.D

Injection Date: 13-Sep-2018 16:44:30

Instrument ID: CBNAMS13

Lims ID: 460-164442-B-3-B

Lab Sample ID: 460-164442-3

Client ID: TW-2

Operator ID: bes

ALS Bottle#:

9

Worklist Smp#: 9

Injection Vol: 5.0 ul

Dil. Factor: 1.0000

Method: 8270_Isotope

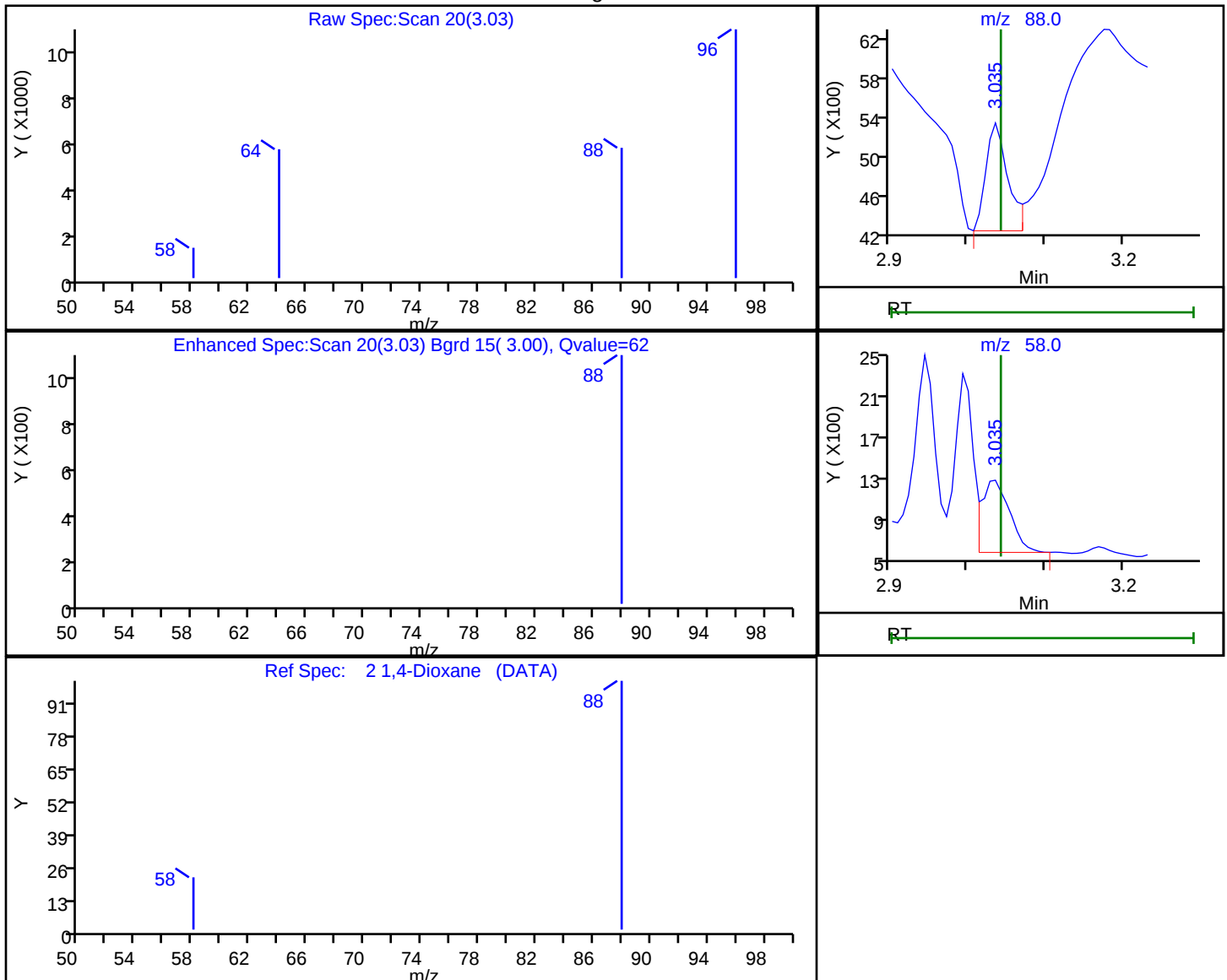
Limit Group: MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS (0.25 mm)

Detector: MS SCAN

2 1,4-Dioxane, CAS: 123-91-1

Processing Results



RT	Mass	Response	Amount
3.03	88.00	2130	0.004206
3.03	58.00	1760	

Reviewer: khlungprakhons, 14-Sep-2018 18:54:33

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-164442-1
 SDG No.: _____
 Client Sample ID: PW-XX-091018 Lab Sample ID: 460-164442-4
 Matrix: Water Lab File ID: C31776.D
 Analysis Method: 8270D SIM ID Date Collected: 09/10/2018 00:00
 Extract. Method: 3510C Date Extracted: 09/13/2018 07:55
 Sample wt/vol: 250 (mL) Date Analyzed: 09/13/2018 17:02
 Con. Extract Vol.: 2 (mL) Dilution Factor: 1
 Injection Volume: 5 (uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 551949 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.20	U	0.20	0.016

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	37		10-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180913-78623.b\C31776.D
 Lims ID: 460-164442-A-4-A
 Client ID: PW-XX-091018
 Sample Type: Client
 Inject. Date: 13-Sep-2018 17:02:30 ALS Bottle#: 10 Worklist Smp#: 10
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0078623-010
 Operator ID: bes Instrument ID: CBNAMS13
 Method: \\ChromNA\Edison\ChromData\CBNAMS13\20180913-78623.b\8270_Isotope.m
 Limit Group: MSS 8270 Isotope Dilution IS
 Last Update: 14-Sep-2018 08:26:46 Calib Date: 11-May-2018 17:20:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28993.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK025

First Level Reviewer: khlungprakhons

Date: 14-Sep-2018 15:42:32

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	%Rec	Flags
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D 1	1,4-Dioxane-d8	96	3.007	3.014	-0.007	0	1568555	1.47	36.9
* 4	1,4-Dichlorobenzene-d4	152	5.715	5.715	0.000	98	538114	0.2000	

Reagents:

SM_iso_d4istd_00003 Amount Added: 20.00 Units: uL Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS13\\20180913-78623.b\\C31776.D

Injection Date: 13-Sep-2018 17:02:30

Instrument ID: CBNAMS13

Operator ID: bes

Lims ID: 460-164442-A-4-A

Lab Sample ID: 460-164442-4

Worklist Smp#: 10

Client ID: PW-XX-091018

Injection Vol: 5.0 ul

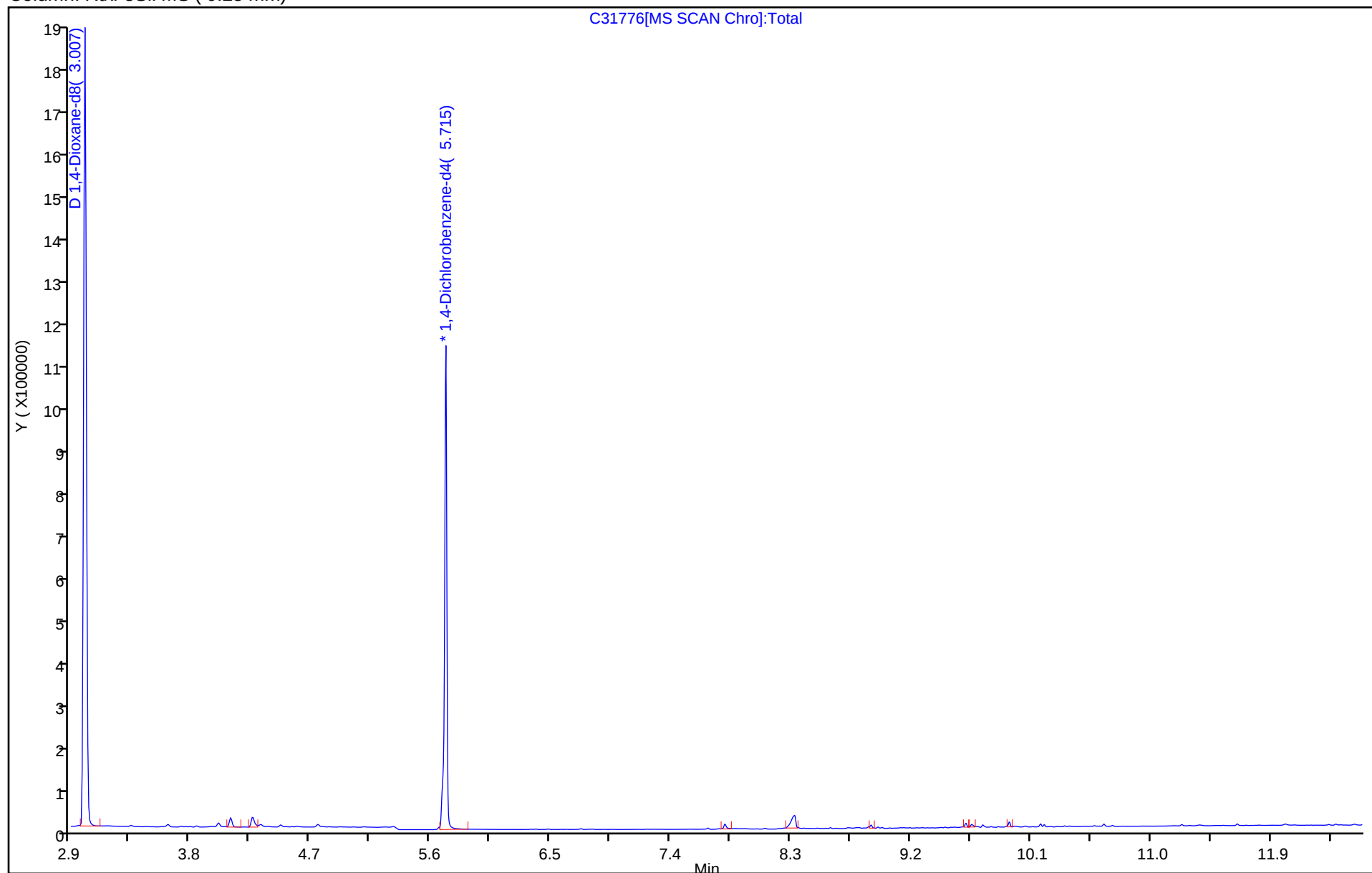
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: 8270_Isotope

Limit Group: MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180913-78623.b\C31776.D

Injection Date: 13-Sep-2018 17:02:30

Instrument ID: CBNAMS13

Lims ID: 460-164442-A-4-A

Lab Sample ID: 460-164442-4

Client ID: PW-XX-091018

Operator ID: bes

ALS Bottle#: 10

Worklist Smp#: 10

Injection Vol: 5.0 ul

Dil. Factor: 1.0000

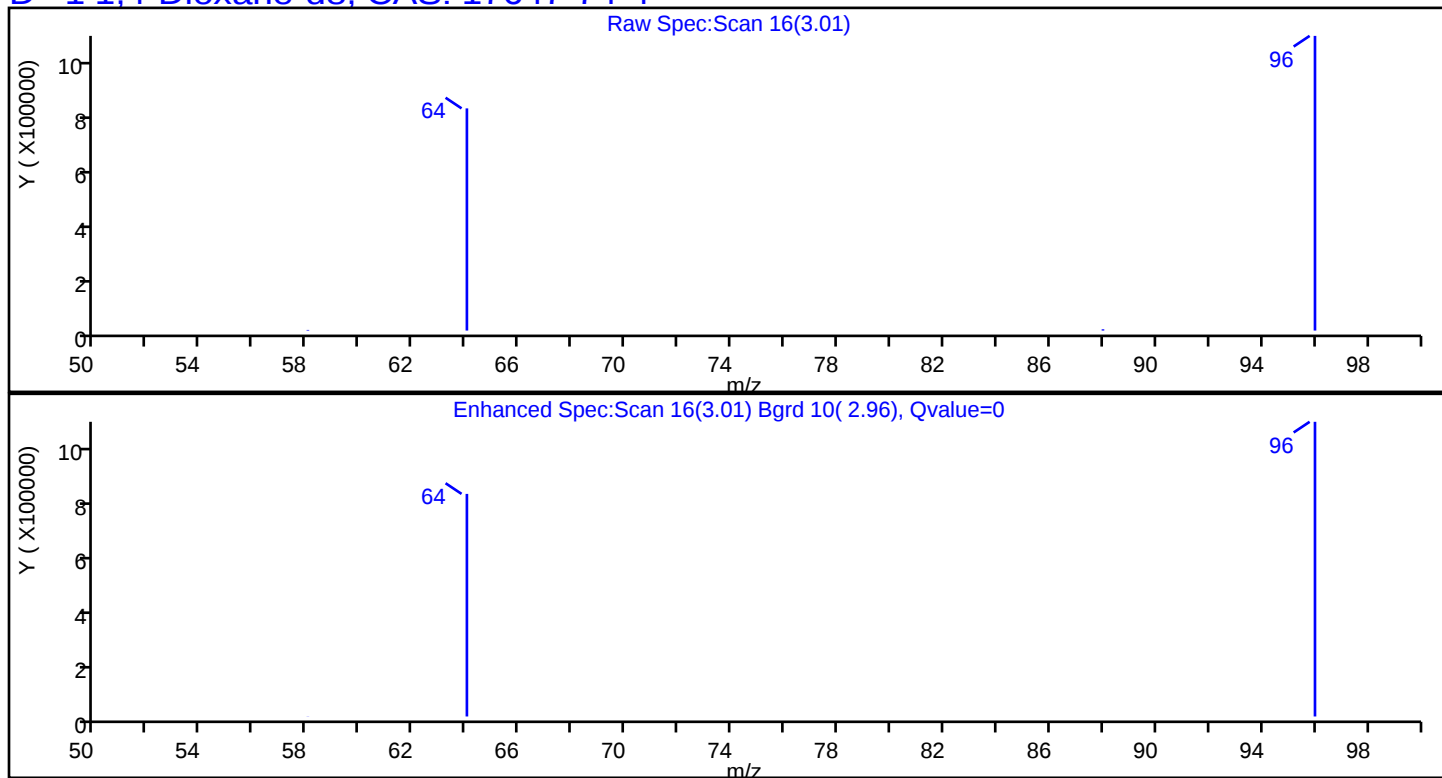
Method: 8270_Isotope

Limit Group: MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS (0.25 mm)

Detector MS SCAN

D 1 1,4-Dioxane-d8, CAS: 17647-74-4



TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS13\\20180913-78623.b\\C31776.D

Injection Date: 13-Sep-2018 17:02:30

Instrument ID: CBNAMS13

Lims ID: 460-164442-A-4-A

Lab Sample ID: 460-164442-4

Client ID: PW-XX-091018

Operator ID: bes

ALS Bottle#: 10 Worklist Smp#: 10

Injection Vol: 5.0 ul

Dil. Factor: 1.0000

Method: 8270_Isotope

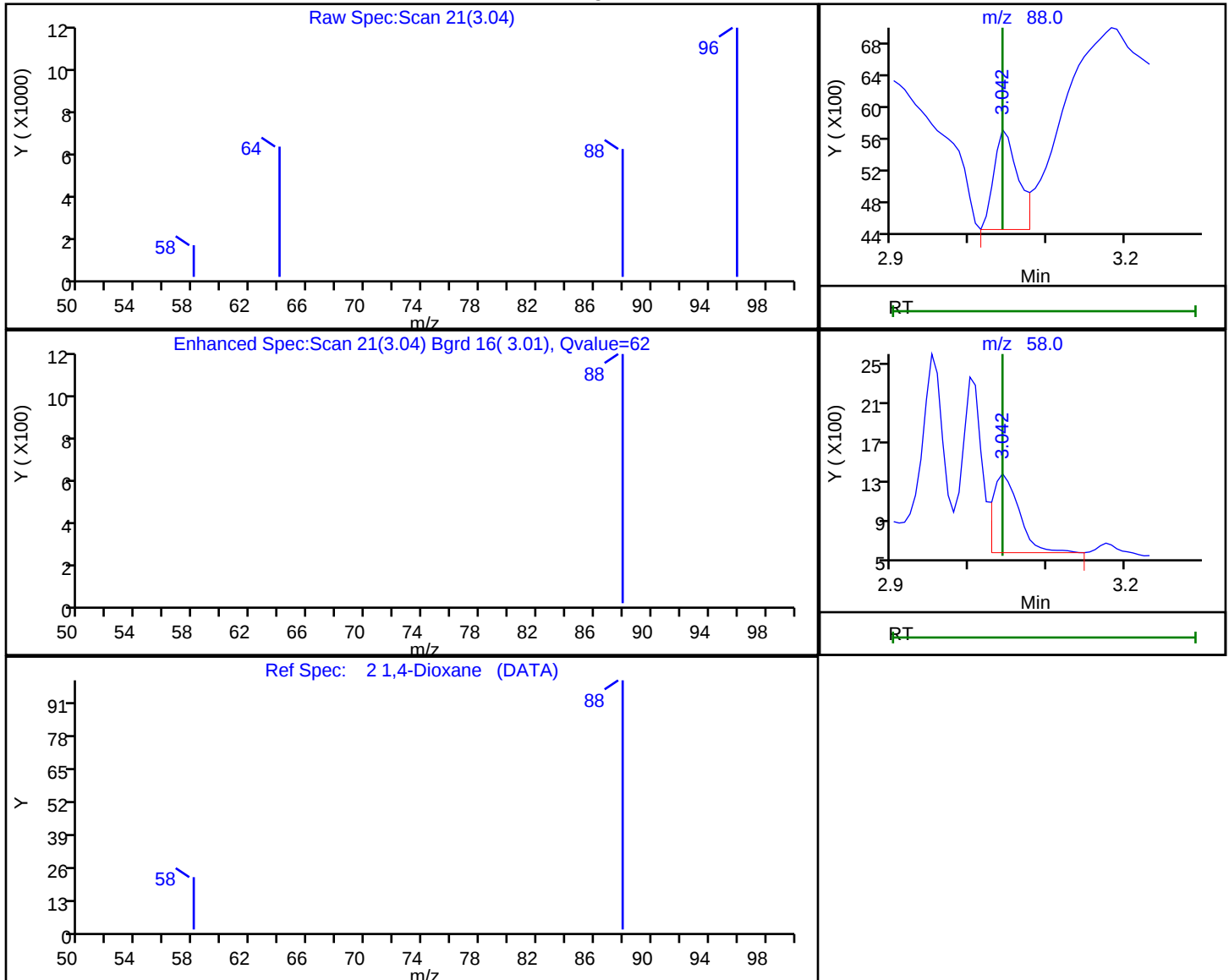
Limit Group: MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS (0.25 mm)

Detector: MS SCAN

2 1,4-Dioxane, CAS: 123-91-1

Processing Results



RT	Mass	Response	Amount
3.04	88.00	2632	0.005184
3.04	58.00	1827	

Reviewer: khlungprakhons, 14-Sep-2018 18:54:45

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-164442-1
 SDG No.: _____
 Client Sample ID: FB-091018 Lab Sample ID: 460-164442-5
 Matrix: Water Lab File ID: C31777.D
 Analysis Method: 8270D SIM ID Date Collected: 09/10/2018 11:00
 Extract. Method: 3510C Date Extracted: 09/13/2018 07:55
 Sample wt/vol: 250 (mL) Date Analyzed: 09/13/2018 17:19
 Con. Extract Vol.: 2 (mL) Dilution Factor: 1
 Injection Volume: 5 (uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 551949 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.20	U	0.20	0.016

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	37		10-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180913-78623.b\C31777.D
 Lims ID: 460-164442-A-5-A
 Client ID: FB-091018
 Sample Type: Client
 Inject. Date: 13-Sep-2018 17:19:30 ALS Bottle#: 11 Worklist Smp#: 11
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0078623-011
 Operator ID: bes Instrument ID: CBNAMS13
 Method: \\ChromNA\Edison\ChromData\CBNAMS13\20180913-78623.b\8270_Isotope.m
 Limit Group: MSS 8270 Isotope Dilution IS
 Last Update: 14-Sep-2018 08:26:46 Calib Date: 11-May-2018 17:20:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28993.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK025

First Level Reviewer: khlungprakhons

Date: 14-Sep-2018 15:43:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	%Rec	Flags
D 1 1,4-Dioxane-d8	96	3.007	3.014	-0.007	0	1603888	1.47	36.6	
* 4 1,4-Dichlorobenzene-d4	152	5.715	5.715	0.000	98	553757	0.2000		

Reagents:

SM_iso_d4istd_00003 Amount Added: 20.00 Units: uL Run Reagent

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180913-78623.b\C31777.D

Injection Date: 13-Sep-2018 17:19:30

Instrument ID: CBNAMS13

Operator ID: bes

Lims ID: 460-164442-A-5-A

Lab Sample ID: 460-164442-5

Worklist Smp#: 11

Client ID: FB-091018

Injection Vol: 5.0 ul

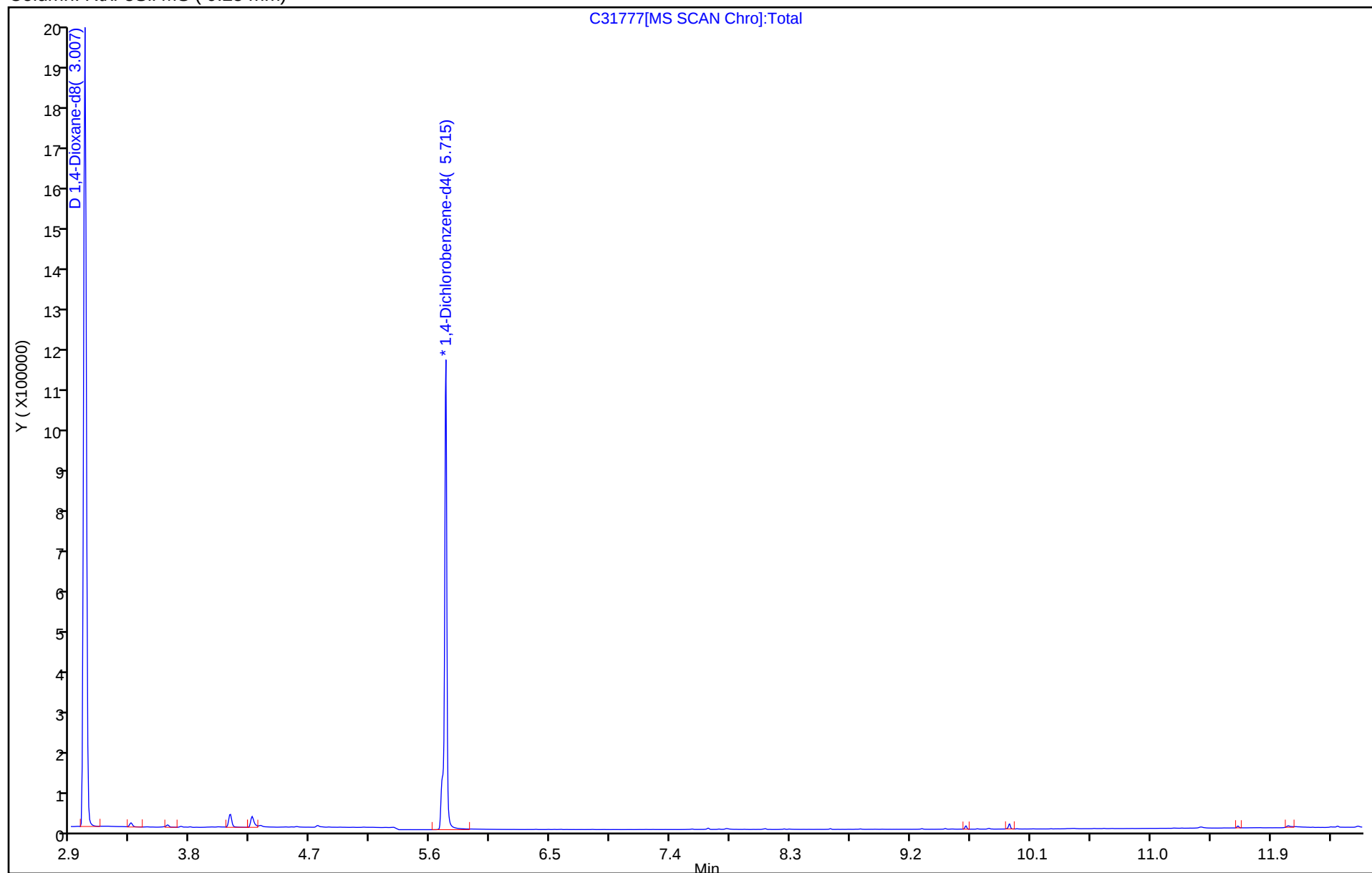
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: 8270_Isotope

Limit Group: MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180913-78623.b\C31777.D

Injection Date: 13-Sep-2018 17:19:30

Instrument ID: CBNAMS13

Lims ID: 460-164442-A-5-A

Lab Sample ID: 460-164442-5

Client ID: FB-091018

Operator ID: bes

ALS Bottle#: 11 Worklist Smp#: 11

Injection Vol: 5.0 ul

Dil. Factor: 1.0000

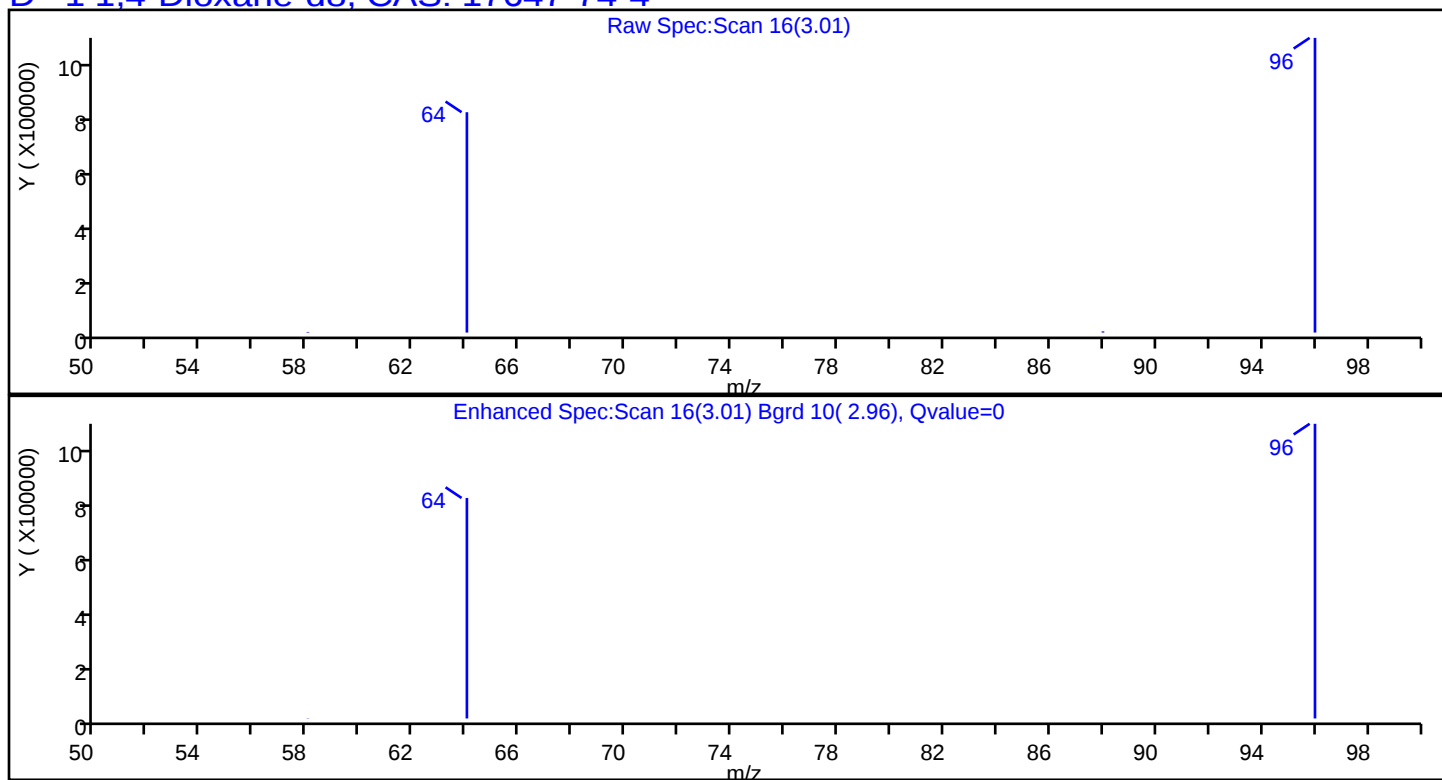
Method: 8270_Isotope

Limit Group: MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS (0.25 mm)

Detector MS SCAN

D 1 1,4-Dioxane-d8, CAS: 17647-74-4



TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS13\\20180913-78623.b\\C31777.D

Injection Date: 13-Sep-2018 17:19:30

Instrument ID: CBNAMS13

Lims ID: 460-164442-A-5-A

Lab Sample ID: 460-164442-5

Client ID: FB-091018

Operator ID: bes

ALS Bottle#: 11 Worklist Smp#: 11

Injection Vol: 5.0 ul

Dil. Factor: 1.0000

Method: 8270_Isotope

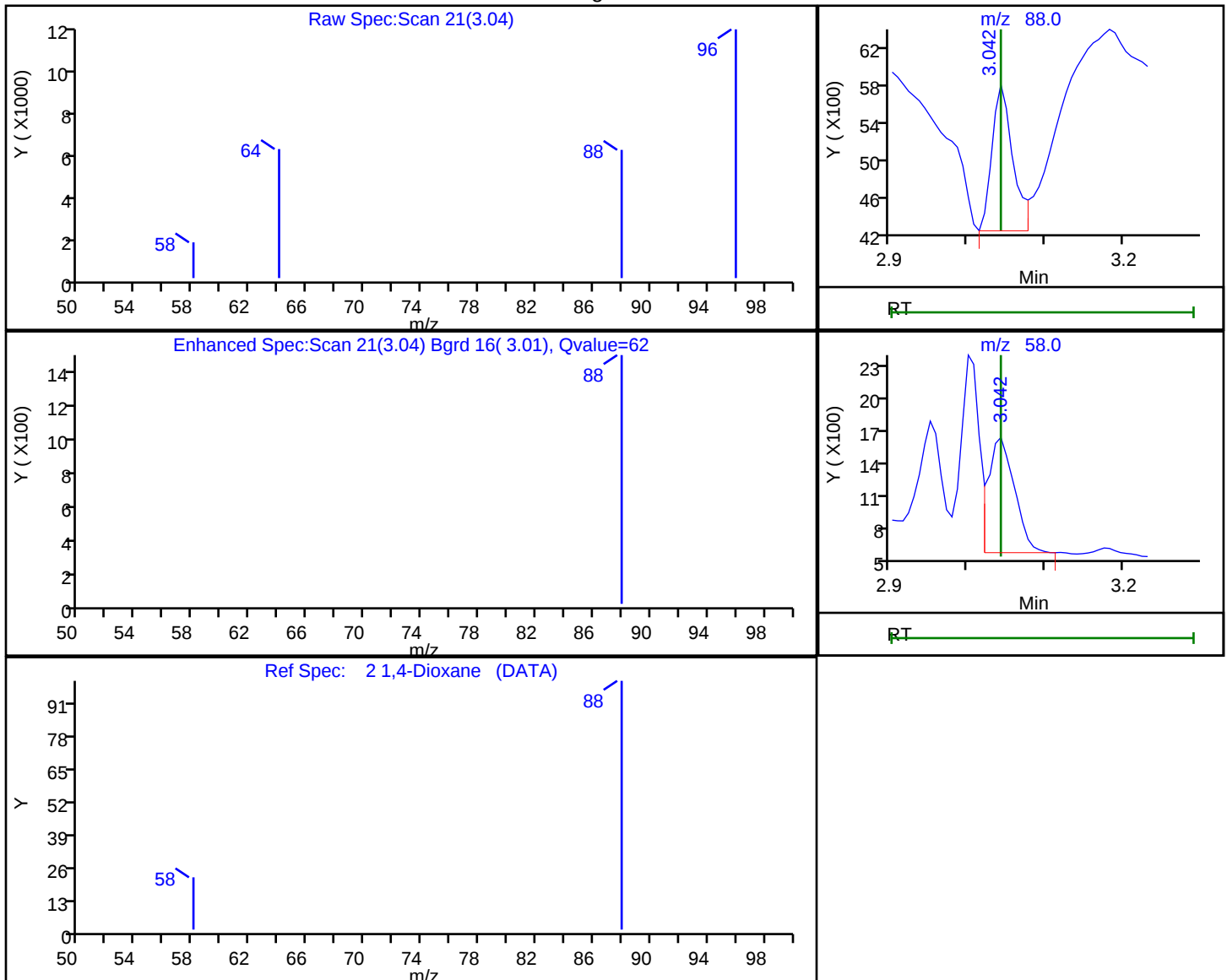
Limit Group: MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS (0.25 mm)

Detector: MS SCAN

2 1,4-Dioxane, CAS: 123-91-1

Processing Results



RT	Mass	Response	Amount
3.04	88.00	2830	0.005451
3.04	58.00	2413	

Reviewer: khlungprakhons, 14-Sep-2018 18:54:57

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-164442-1 Analy Batch No.: 518314

SDG No.: _____

Instrument ID: CBNAMS13 GC Column: Rtxi-5Sil M ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2018 12:48 Calibration End Date: 05/11/2018 17:20 Calibration ID: 68479

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 460-518314/9	C28993.D
Level 2	STD2 460-518314/8	C28992.D
Level 3	STD3 460-518314/7	C28991.D
Level 4	ICIS 460-518314/2	C28986.D
Level 5	STD8 460-518314/3	C28987.D
Level 6	STD7 460-518314/4	C28988.D
Level 7	STD6 460-518314/5	C28989.D
Level 8	STD4 460-518314/6	C28990.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,4-Dioxane	1.4707 1.1835	1.4974 1.2114	1.3755 1.3268	1.2864	1.0062	AveID		1.2947				12.5		50.0			
1,4-Dioxane-d8	0.4001 0.3970	0.3939 0.3945	0.3865 0.3964	0.3977	0.3963	Ave		0.3953				1.0		50.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-164442-1 Analy Batch No.: 518314

SDG No.: _____

Instrument ID: CBNAMS13 GC Column: Rtxi-5Sil M ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2018 12:48 Calibration End Date: 05/11/2018 17:20 Calibration ID: 68479

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 460-518314/9	C28993.D
Level 2	STD2 460-518314/8	C28992.D
Level 3	STD3 460-518314/7	C28991.D
Level 4	ICIS 460-518314/2	C28986.D
Level 5	STD8 460-518314/3	C28987.D
Level 6	STD7 460-518314/4	C28988.D
Level 7	STD6 460-518314/5	C28989.D
Level 8	STD4 460-518314/6	C28990.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,4-Dioxane		AveID	19118 1516533	40300 779650	88487 176553	413818	6531196	0.0200 2.00	0.0400 1.00	0.100 0.200	0.500	10.0
1,4-Dioxane-d8	DCBd 4	Ave	2599863 2562721	2691312 2574395	2573218 2661308	2573458	2596349	4.00 4.00	4.00 4.00	4.00 4.00	4.00	4.00

Curve Type Legend:

Ave = Average ISTD
AveID = Average isotope dilution

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28986.D
 Lims ID: icis
 Client ID:
 Sample Type: ICIS Calib Level: 5
 Inject. Date: 11-May-2018 12:48:30 ALS Bottle#: 9 Worklist Smp#: 2
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0071845-002
 Operator ID: Instrument ID: CBNAMS13
 Sublist: chrom-8270_Isotope*sub1
 Method: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\8270_Isotope.m
 Limit Group: MSS 8270 Isotope Dilution IS
 Last Update: 14-May-2018 12:12:25 Calib Date: 11-May-2018 17:20:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28993.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK013

First Level Reviewer: johnstonm1

Date: 11-May-2018 13:27:37

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
D 1 1,4-Dioxane-d8	96	3.400	3.400	0.000	0	2573458	4.00	4.02	a
2 1,4-Dioxane	88	3.428	3.428	0.000	79	413818	0.5000	0.4968	
* 4 1,4-Dichlorobenzene-d4	152	5.952	5.952	0.000	98	323558	0.2000	0.2000	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

SM_ISOTOPL5_00001

Amount Added: 1.00

Units: mL

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28986.D

Injection Date: 11-May-2018 12:48:30

Instrument ID: CBNAMS13

Operator ID:

Lims ID: icis

Worklist Smp#: 2

Client ID:

Injection Vol: 5.0 ul

Dil. Factor: 1.0000

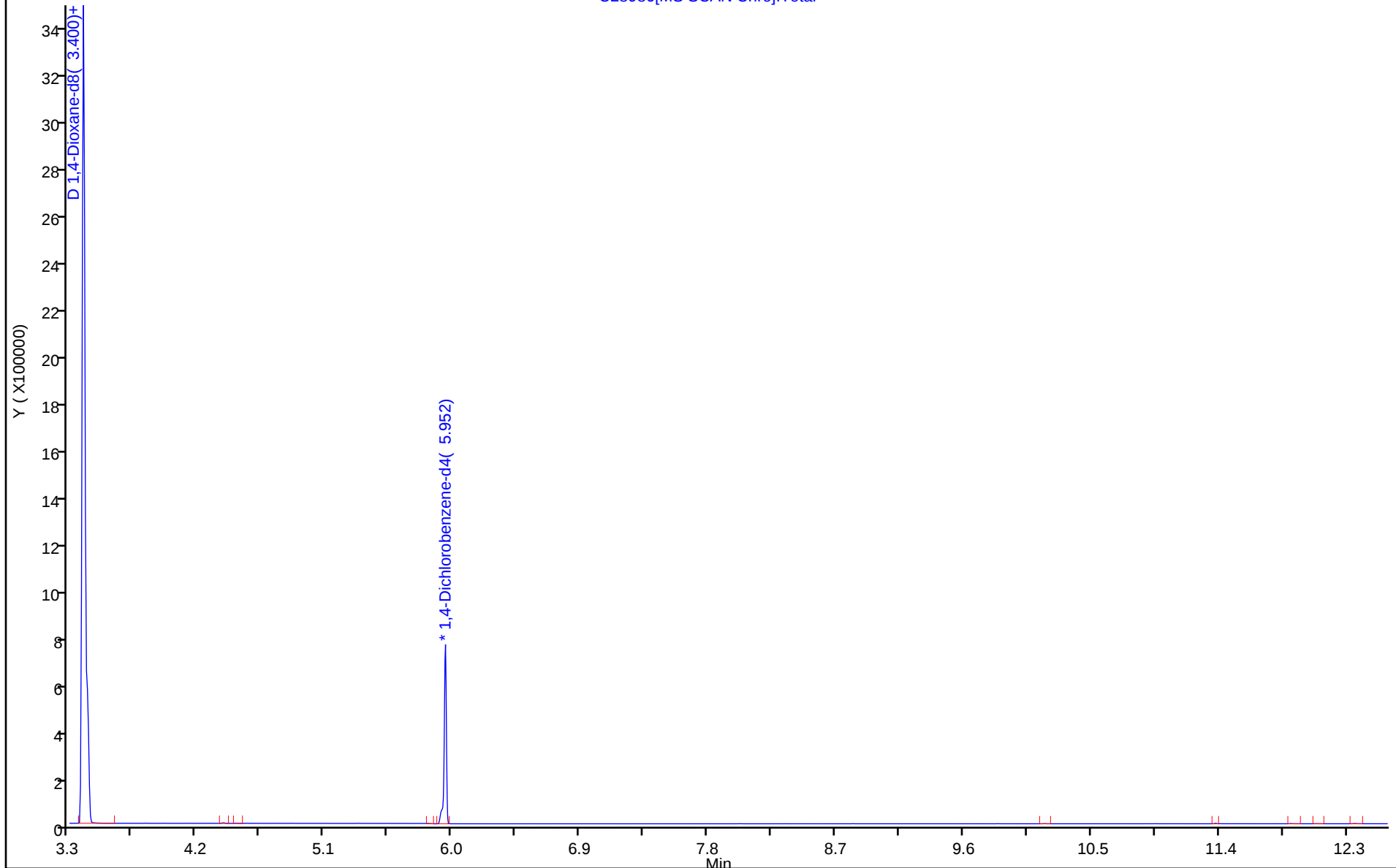
ALS Bottle#: 9

Method: 8270_Isotope

Limit Group: MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS (0.25 mm)

C28986[MS SCAN Chro]:Total



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28986.D

Injection Date: 11-May-2018 12:48:30

Instrument ID: CBNAMS13

Lims ID: icis

Client ID:

Operator ID:

ALS Bottle#:

9

Worklist Smp#: 2

Injection Vol: 5.0 ul

Dil. Factor: 1.0000

Method: 8270_Isotope

Limit Group: MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS (0.25 mm)

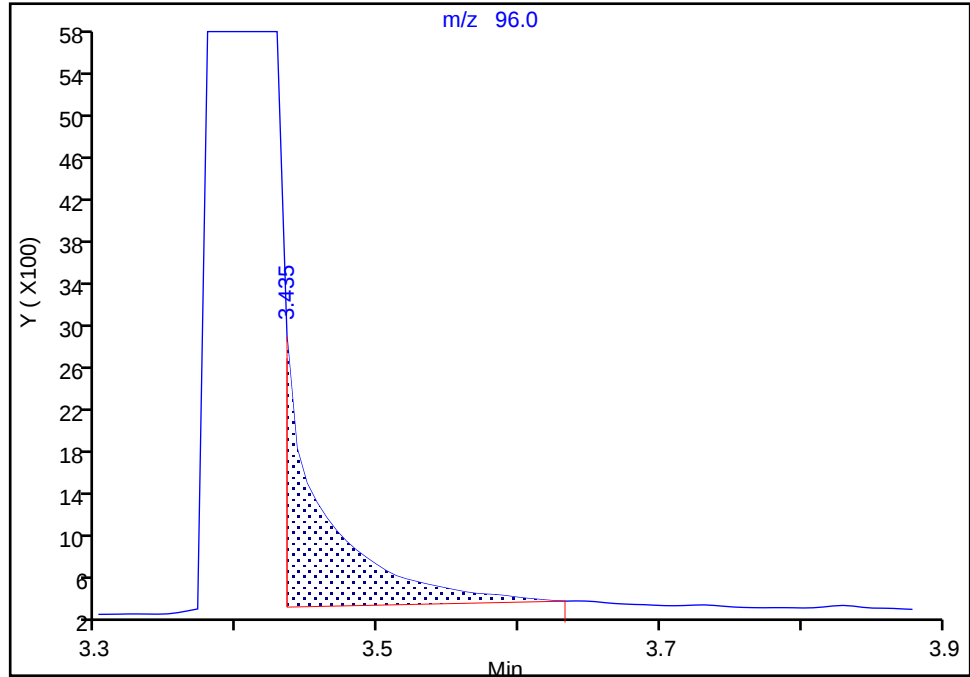
Detector: MS SCAN

D 1 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

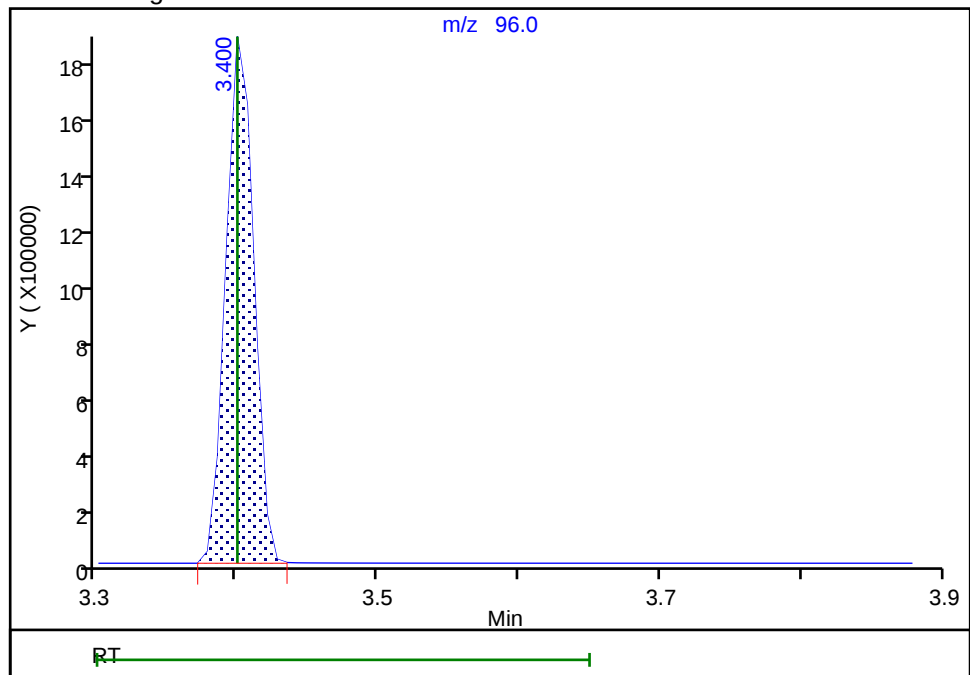
RT: 3.43
Area: 5015
Amount: 4.029831
Amount Units: ug/ml

Processing Integration Results



RT: 3.40
Area: 2573458
Amount: 4.024073
Amount Units: ug/ml

Manual Integration Results



Reviewer: johnstonm1, 11-May-2018 13:27:27

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28987.D
 Lims ID: STD8
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 11-May-2018 13:08:30 ALS Bottle#: 10 Worklist Smp#: 3
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0071845-003
 Operator ID: Instrument ID: CBNAMS13
 Sublist: chrom-8270_Isotope*sub1
 Method: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\8270_Isotope.m
 Limit Group: MSS 8270 Isotope Dilution IS
 Last Update: 14-May-2018 12:12:25 Calib Date: 11-May-2018 17:20:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28993.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK013

First Level Reviewer: johnstonm1

Date: 11-May-2018 13:28:03

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
D 1 1,4-Dioxane-d8	96	3.392	3.400	-0.008	0	2596349	4.00	4.01	a
2 1,4-Dioxane	88	3.421	3.428	-0.007	78	6531196	10.0	7.77	
* 4 1,4-Dichlorobenzene-d4	152	5.944	5.952	-0.008	97	327569	0.2000	0.2000	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

SM_ISOTOPL8_00001

Amount Added: 1.00

Units: mL

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28987.D

Injection Date: 11-May-2018 13:08:30

Instrument ID: CBNAMS13

Operator ID:

Lims ID: STD8

Worklist Smp#: 3

Client ID:

Injection Vol: 5.0 ul

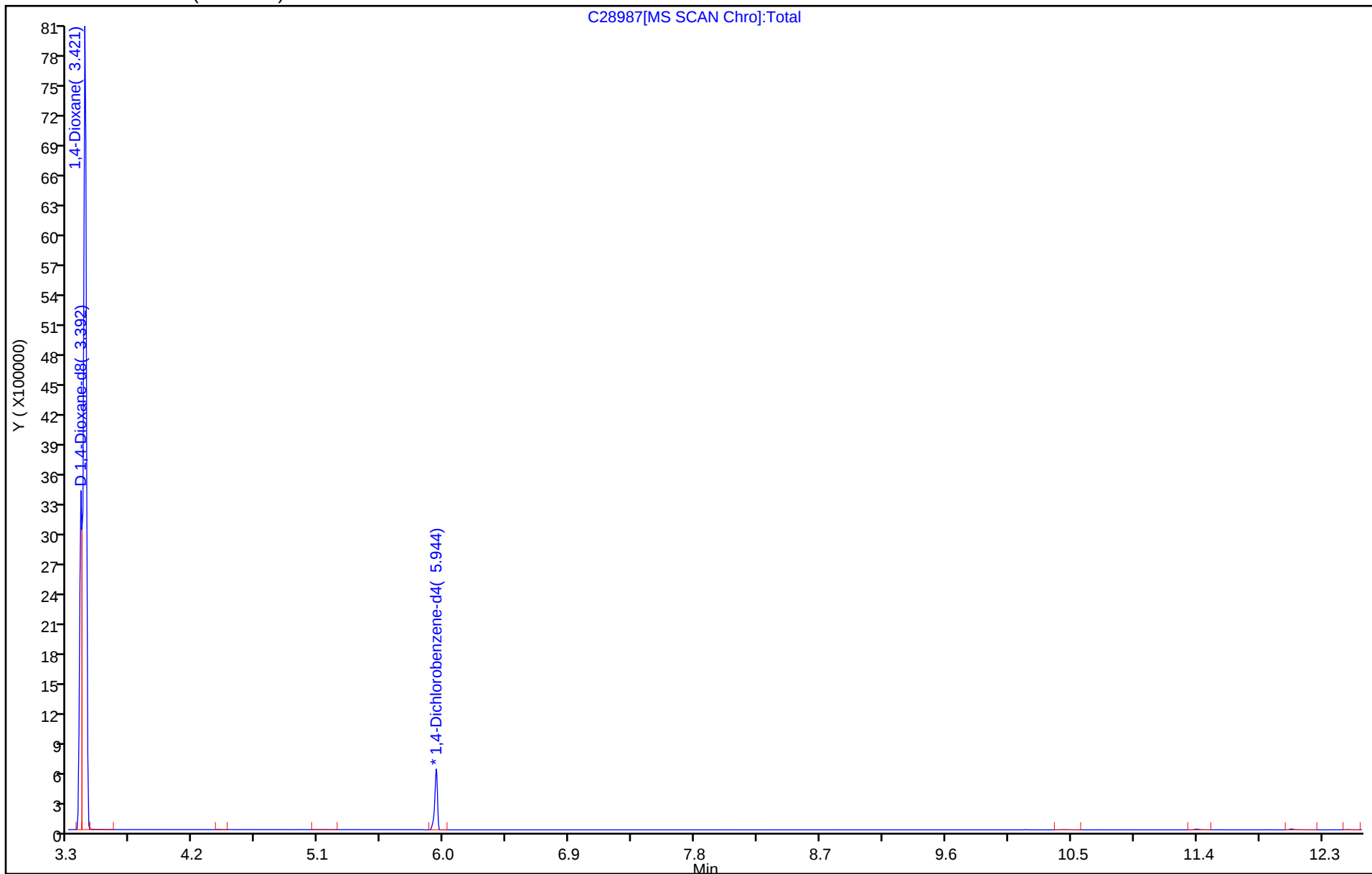
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: 8270_Isotope

Limit Group: MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28987.D

Injection Date: 11-May-2018 13:08:30

Instrument ID: CBNAMS13

Lims ID: STD8

Client ID:

Operator ID:

ALS Bottle#:

10

Worklist Smp#:

3

Injection Vol: 5.0 ul

Dil. Factor:

1.0000

Method: 8270_Isotope

Limit Group:

MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS (0.25 mm)

Detector

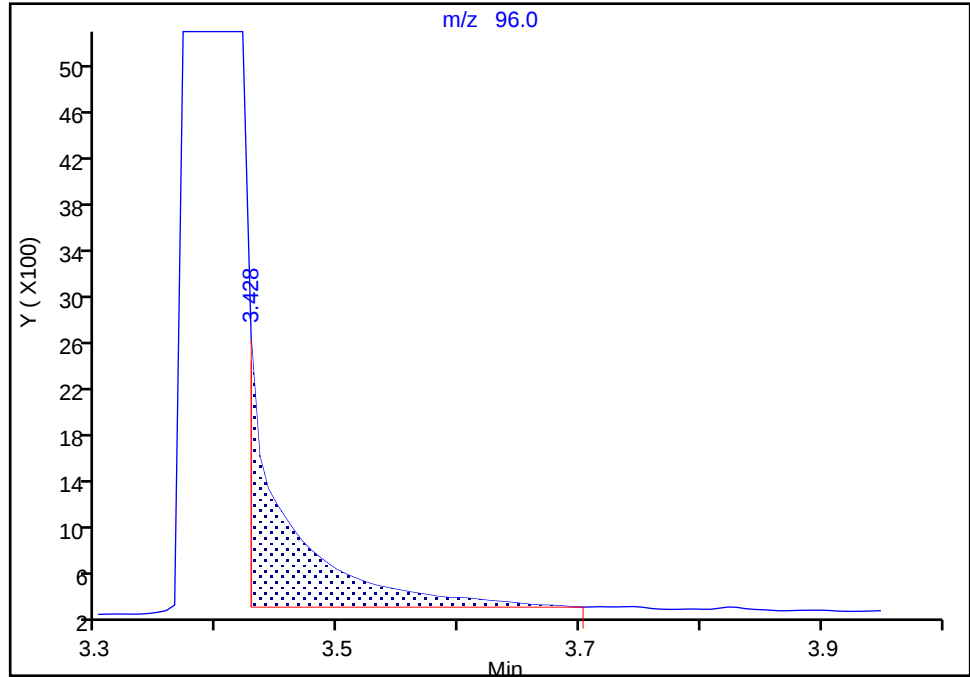
MS SCAN

D 1 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

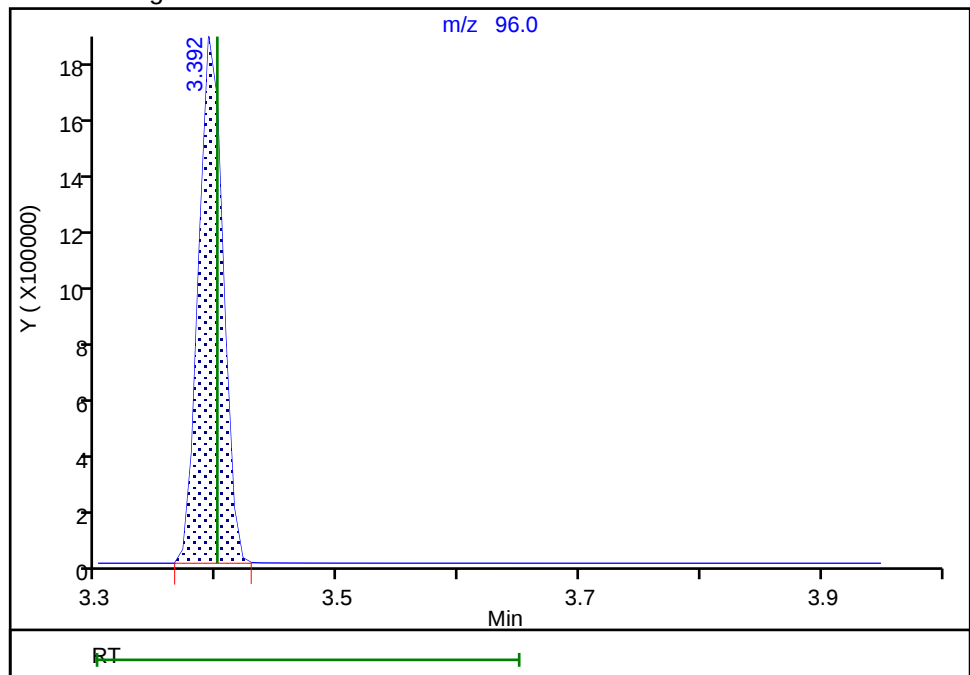
RT: 3.43
Area: 5002
Amount: 0.015330
Amount Units: ug/ml

Processing Integration Results



RT: 3.39
Area: 2596349
Amount: 4.010155
Amount Units: ug/ml

Manual Integration Results



Reviewer: johnstonm1, 11-May-2018 13:27:45

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28988.D
 Lims ID: STD7
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 11-May-2018 13:27:30 ALS Bottle#: 11 Worklist Smp#: 4
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0071845-004
 Operator ID: Instrument ID: CBNAMS13
 Sublist: chrom-8270_Isotope*sub1
 Method: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\8270_Isotope.m
 Limit Group: MSS 8270 Isotope Dilution IS
 Last Update: 14-May-2018 12:12:26 Calib Date: 11-May-2018 17:20:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28993.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK013

First Level Reviewer: johnstonm1

Date: 14-May-2018 08:54:21

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
D 1 1,4-Dioxane-d8	96	3.400	3.400	0.000	0	2562721	4.00	4.02	
2 1,4-Dioxane	88	3.428	3.428	0.000	79	1516533	2.00	1.83	
* 4 1,4-Dichlorobenzene-d4	152	5.948	5.952	-0.004	99	322762	0.2000	0.2000	

Reagents:

SM_ISOTOPL7_00001

Amount Added: 1.00

Units: mL

Report Date: 14-May-2018 12:12:26

Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28988.D

Injection Date: 11-May-2018 13:27:30

Instrument ID: CBNAMS13

Operator ID:

Lims ID: STD7

Worklist Smp#: 4

Client ID:

Injection Vol: 5.0 ul

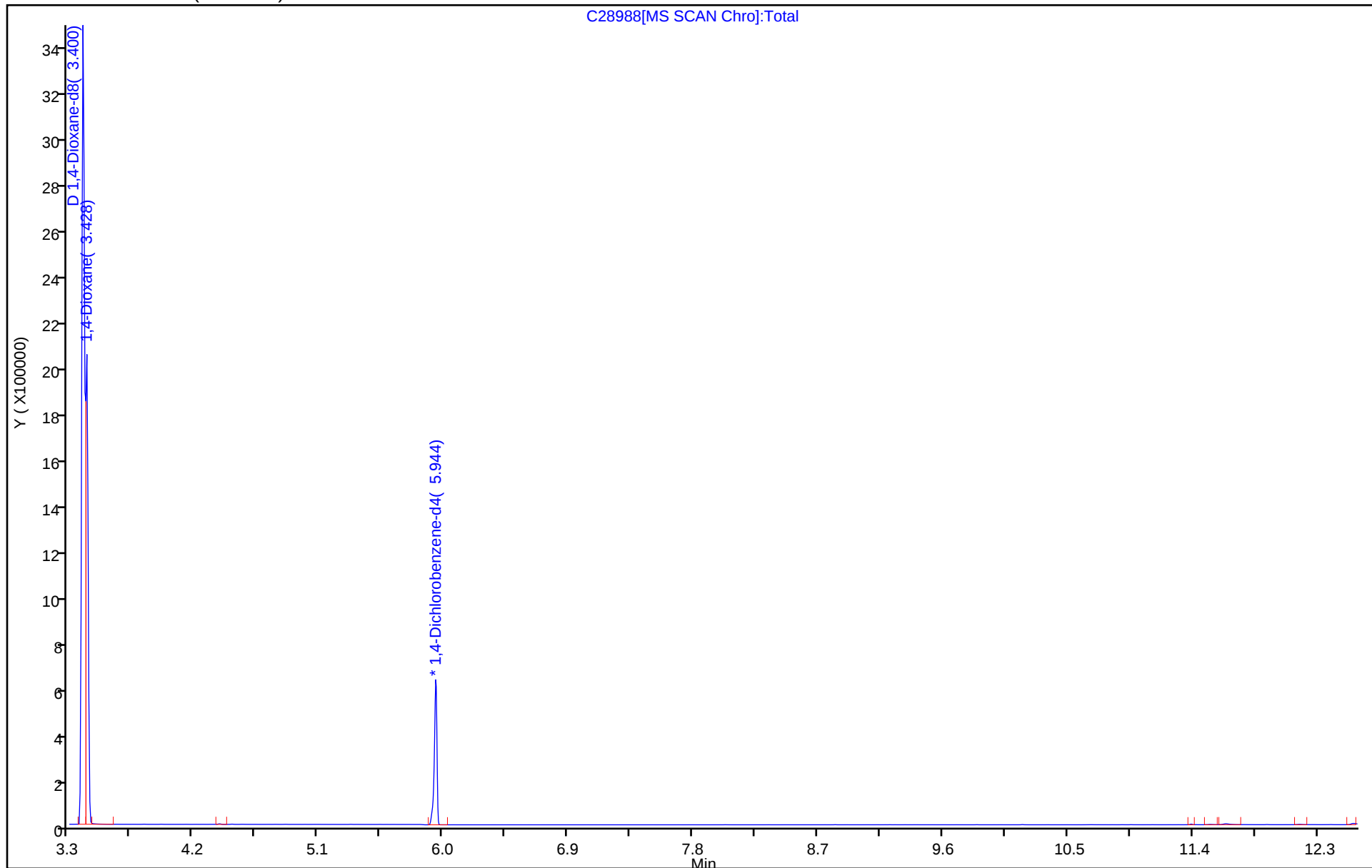
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: 8270_Isotope

Limit Group: MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28989.D
 Lims ID: STD6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 11-May-2018 14:16:30 ALS Bottle#: 12 Worklist Smp#: 5
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0071845-005
 Operator ID: Instrument ID: CBNAMS13
 Sublist: chrom-8270_Isotope*sub1
 Method: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\8270_Isotope.m
 Limit Group: MSS 8270 Isotope Dilution IS
 Last Update: 14-May-2018 12:12:27 Calib Date: 11-May-2018 17:20:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28993.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK013

First Level Reviewer: johnstonm1

Date: 14-May-2018 08:54:26

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
D 1 1,4-Dioxane-d8	96	3.400	3.400	0.000	0	2574395	4.00	3.99	
2 1,4-Dioxane	88	3.428	3.428	0.000	82	779650	1.00	0.9356	
* 4 1,4-Dichlorobenzene-d4	152	5.948	5.952	-0.004	97	326300	0.2000	0.2000	

Reagents:

SM_ISOTOPL6_00001

Amount Added: 1.00

Units: mL

Report Date: 14-May-2018 12:12:27

Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28989.D

Injection Date: 11-May-2018 14:16:30

Instrument ID: CBNAMS13

Operator ID:

Lims ID: STD6

Worklist Smp#: 5

Client ID:

Injection Vol: 5.0 ul

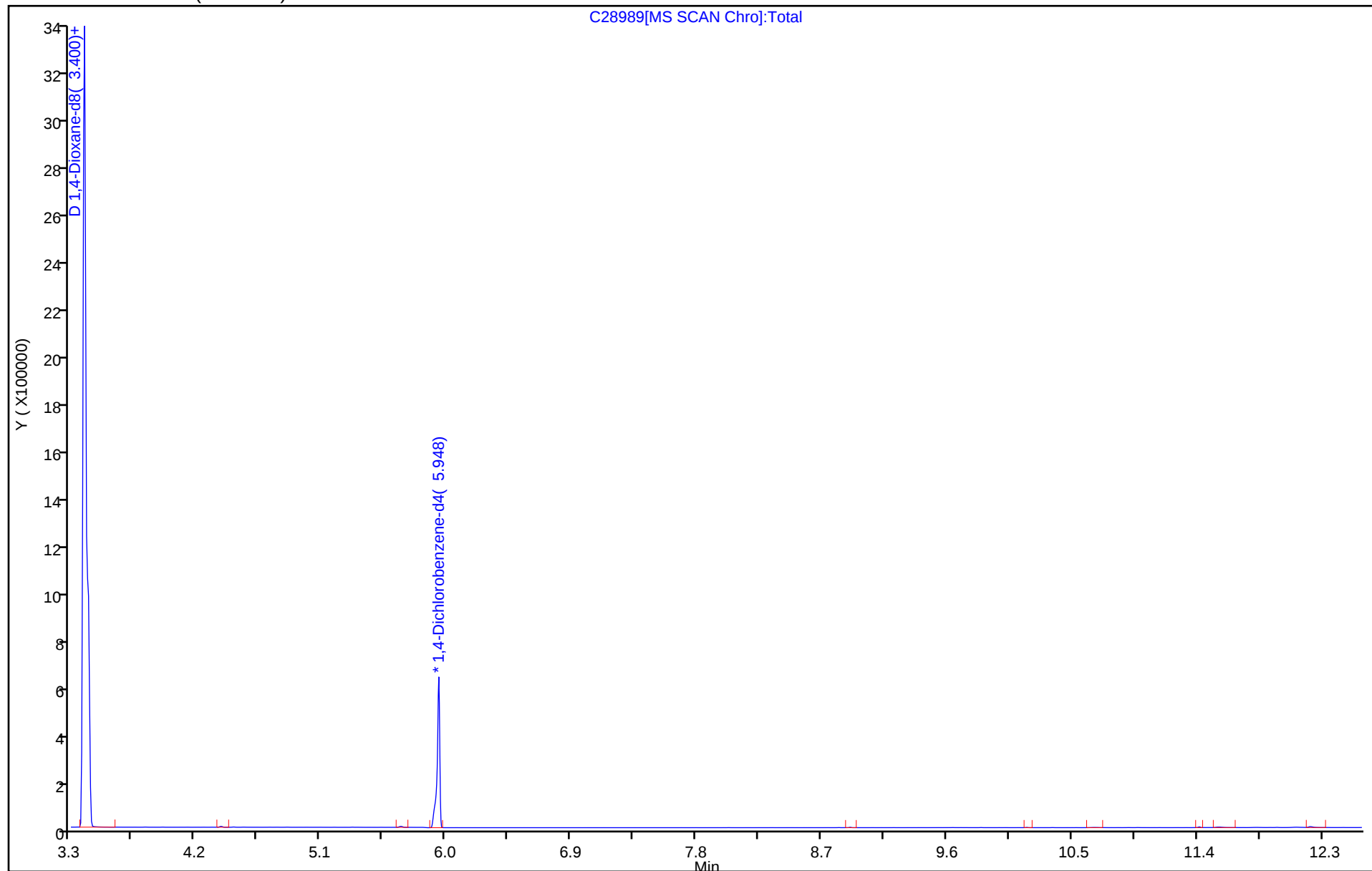
Dil. Factor: 1.0000

ALS Bottle#: 12

Method: 8270_Isotope

Limit Group: MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28990.D
 Lims ID: STD4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 11-May-2018 14:35:30 ALS Bottle#: 13 Worklist Smp#: 6
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0071845-006
 Operator ID: Instrument ID: CBNAMS13
 Sublist: chrom-8270_Isotope*sub1
 Method: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\8270_Isotope.m
 Limit Group: MSS 8270 Isotope Dilution IS
 Last Update: 14-May-2018 12:12:28 Calib Date: 11-May-2018 17:20:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28993.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK013

First Level Reviewer: johnstonm1

Date: 14-May-2018 08:54:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
D 1 1,4-Dioxane-d8	96	3.399	3.400	-0.001	0	2661308	4.00	4.01	
2 1,4-Dioxane	88	3.428	3.428	0.000	79	176553	0.2000	0.2050	
* 4 1,4-Dichlorobenzene-d4	152	5.944	5.952	-0.008	96	335668	0.2000	0.2000	

Reagents:

SM_ISOTOPL4_00001

Amount Added: 1.00

Units: mL

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28990.D

Injection Date: 11-May-2018 14:35:30

Instrument ID: CBNAMS13

Operator ID:

Lims ID: STD4

Worklist Smp#: 6

Client ID:

Injection Vol: 5.0 ul

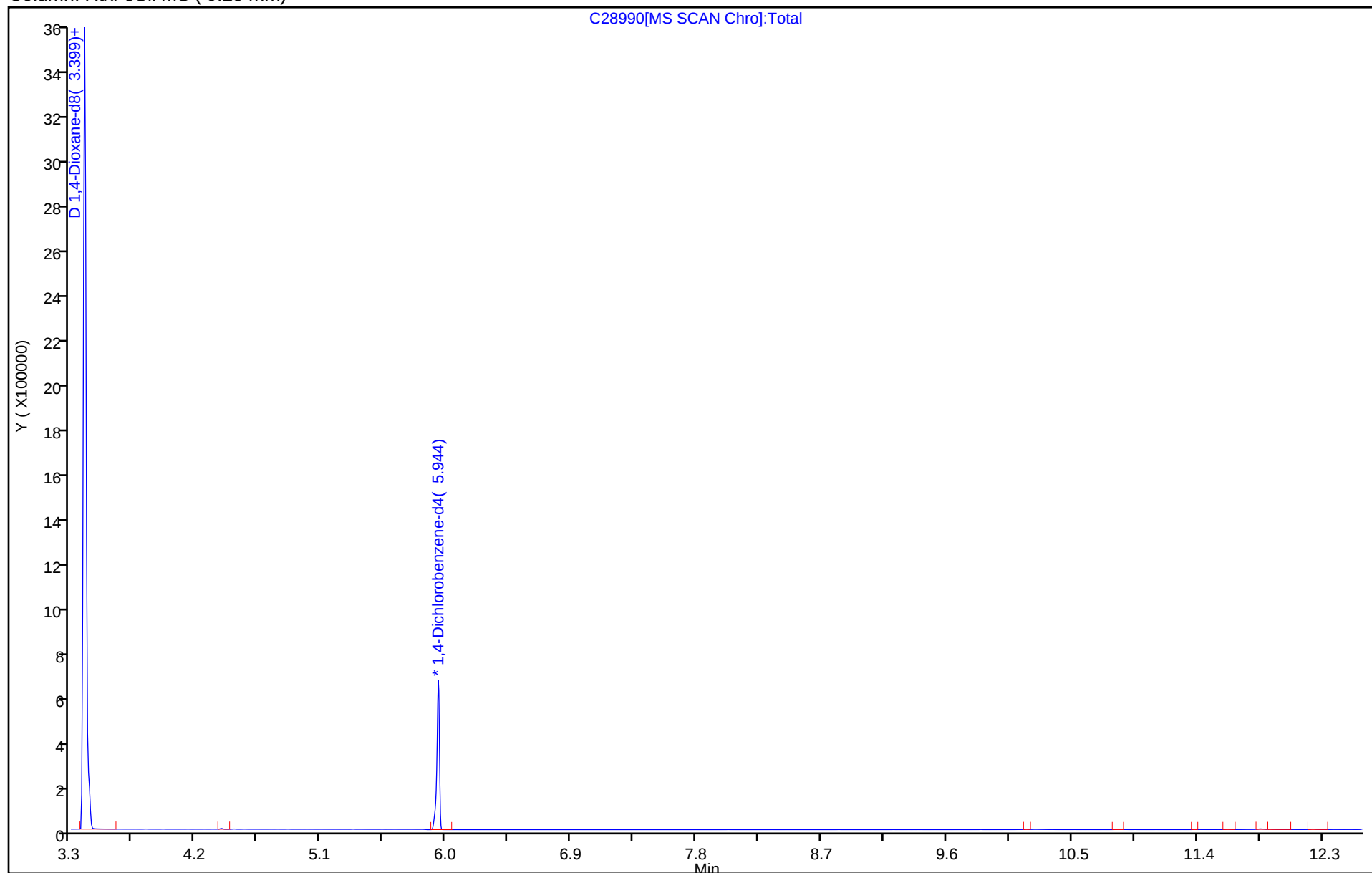
Dil. Factor: 1.0000

ALS Bottle#: 13

Method: 8270_Isotope

Limit Group: MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28991.D
 Lims ID: STD3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 11-May-2018 15:44:30 ALS Bottle#: 14 Worklist Smp#: 7
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0071845-007
 Operator ID: Instrument ID: CBNAMS13
 Sublist: chrom-8270_Isotope*sub1
 Method: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\8270_Isotope.m
 Limit Group: MSS 8270 Isotope Dilution IS
 Last Update: 14-May-2018 12:12:28 Calib Date: 11-May-2018 17:20:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28993.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK013

First Level Reviewer: johnstonm1

Date: 14-May-2018 08:54:37

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
D 1 1,4-Dioxane-d8	96	3.400	3.400	0.000	0	2573218	4.00	3.91	
2 1,4-Dioxane	88	3.428	3.428	0.000	81	88487	0.1000	0.1062	
* 4 1,4-Dichlorobenzene-d4	152	5.948	5.948	0.000	97	332866	0.2000	0.2000	

Reagents:

SM_ISOTOPL3_00001

Amount Added: 1.00

Units: mL

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28991.D

Injection Date: 11-May-2018 15:44:30

Instrument ID: CBNAMS13

Operator ID:

Lims ID: STD3

Worklist Smp#: 7

Client ID:

Injection Vol: 5.0 ul

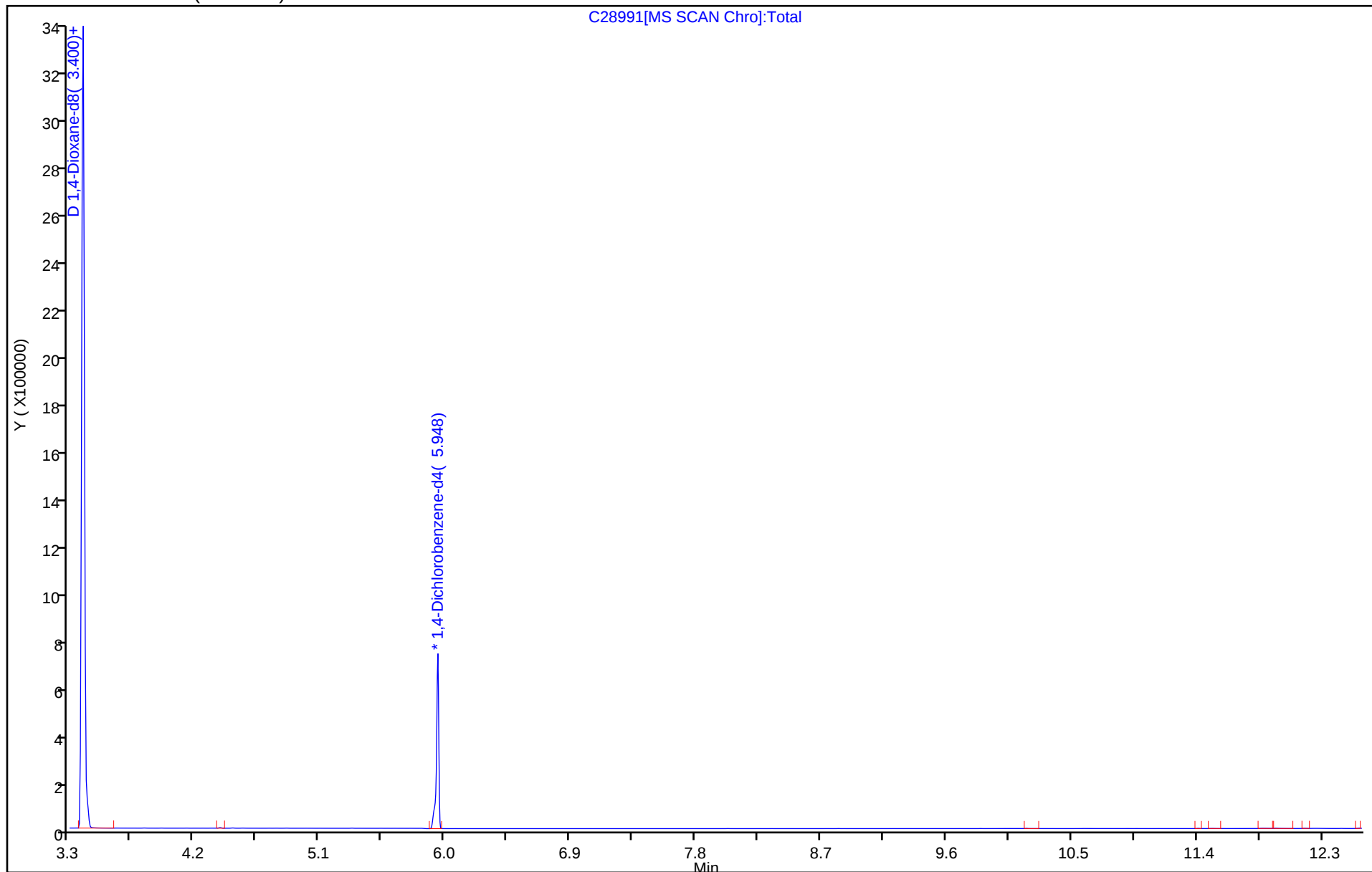
Dil. Factor: 1.0000

ALS Bottle#: 14

Method: 8270_Isotope

Limit Group: MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28992.D
 Lims ID: STD2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 11-May-2018 16:02:30 ALS Bottle#: 15 Worklist Smp#: 8
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0071845-008
 Operator ID: Instrument ID: CBNAMS13
 Sublist: chrom-8270_Isotope*sub1
 Method: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\8270_Isotope.m
 Limit Group: MSS 8270 Isotope Dilution IS
 Last Update: 14-May-2018 12:12:29 Calib Date: 11-May-2018 17:20:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28993.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK013

First Level Reviewer: johnstonm1

Date: 14-May-2018 08:54:44

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
D 1 1,4-Dioxane-d8	96	3.400	3.400	0.000	0	2691312	4.00	3.99	
2 1,4-Dioxane	88	3.435	3.428	0.007	85	40300	0.0400	0.0463	
* 4 1,4-Dichlorobenzene-d4	152	5.948	5.948	0.000	97	341640	0.2000	0.2000	

Reagents:

SM_ISOTOPL2_00001

Amount Added: 1.00

Units: mL

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28992.D

Injection Date: 11-May-2018 16:02:30

Instrument ID: CBNAMS13

Operator ID:

Lims ID: STD2

Worklist Smp#: 8

Client ID:

Injection Vol: 5.0 ul

Dil. Factor: 1.0000

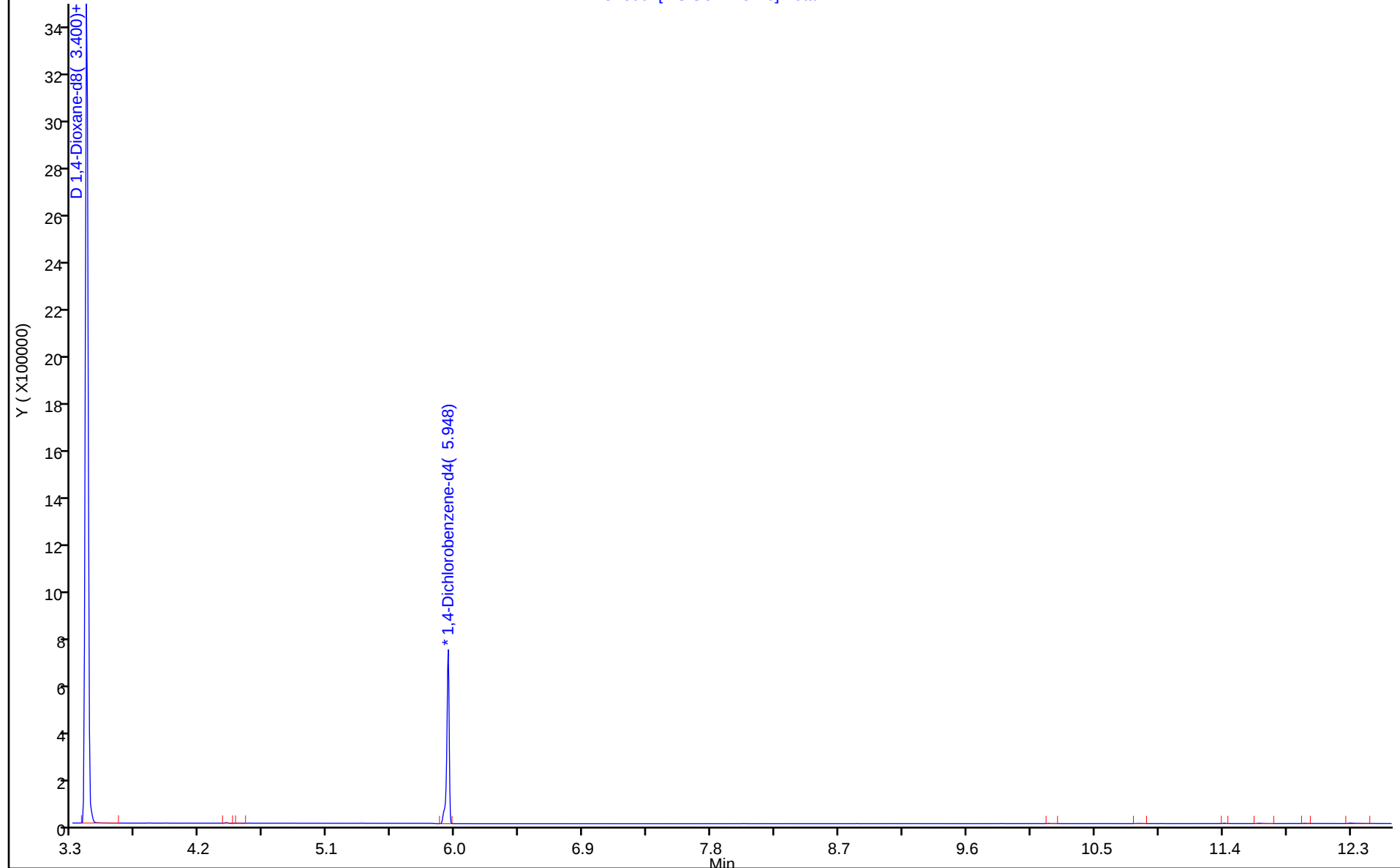
ALS Bottle#: 15

Method: 8270_Isotope

Limit Group: MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS (0.25 mm)

C28992[MS SCAN Chro]:Total



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28993.D
 Lims ID: STD1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 11-May-2018 17:20:30 ALS Bottle#: 16 Worklist Smp#: 9
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0071845-009
 Operator ID: Instrument ID: CBNAMS13
 Sublist: chrom-8270_Isotope*sub1
 Method: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\8270_Isotope.m
 Limit Group: MSS 8270 Isotope Dilution IS
 Last Update: 14-May-2018 12:12:30 Calib Date: 11-May-2018 17:20:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28993.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK013

First Level Reviewer: johnstonm1

Date: 14-May-2018 08:54:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
D 1 1,4-Dioxane-d8	96	3.400	3.400	0.000	0	2599863	4.00	4.05	
2 1,4-Dioxane	88	3.428	3.428	0.000	87	19118	0.0200	0.0227	
* 4 1,4-Dichlorobenzene-d4	152	5.948	5.948	0.000	98	324883	0.2000	0.2000	

Reagents:

SM_ISOTOPL1_00001

Amount Added: 1.00

Units: mL

Report Date: 14-May-2018 12:12:30

Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28993.D

Injection Date: 11-May-2018 17:20:30

Instrument ID: CBNAMS13

Operator ID:

Lims ID: STD1

Worklist Smp#: 9

Client ID:

Injection Vol: 5.0 ul

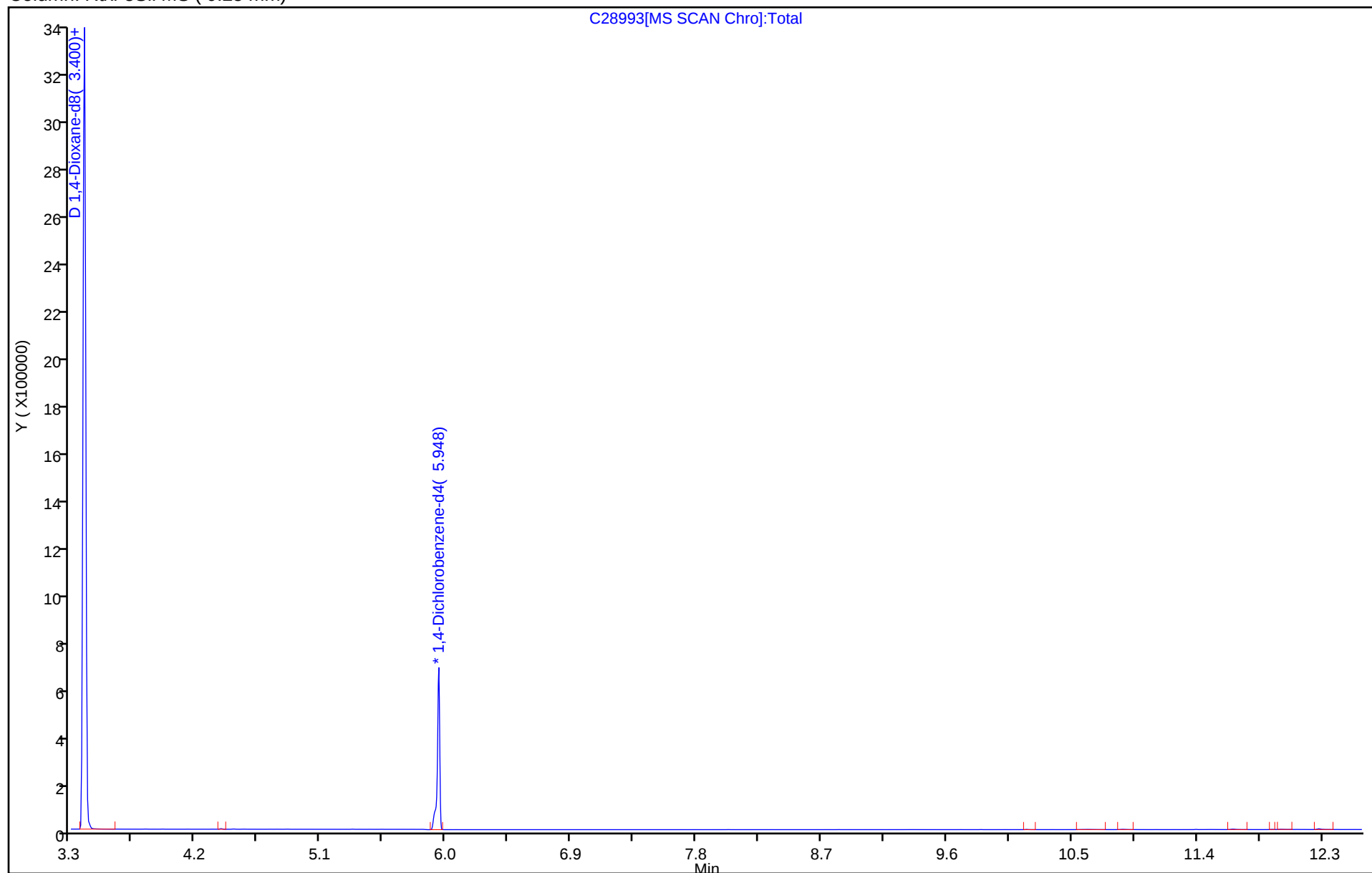
Dil. Factor: 1.0000

ALS Bottle#: 16

Method: 8270_Isotope

Limit Group: MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS (0.25 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-164442-1
SDG No.: _____
Lab Sample ID: CCVIS 460-551949/2 Calibration Date: 09/13/2018 14:33
Instrument ID: CBNAMS13 Calib Start Date: 05/11/2018 12:48
GC Column: Rtxi-5Sil MS ID: 0.25 (mm) Calib End Date: 05/11/2018 17:20
Lab File ID: C31768.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	AveID	1.295	1.310		506	500	1.2	
1,4-Dioxane-d8	Ave	0.3953	0.3878		3920	4000	-1.9	50.0

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180913-78623.b\C31768.D
 Lims ID: ccvis
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 13-Sep-2018 14:33:30 ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0078623-002
 Operator ID: bes Instrument ID: CBNAMS13
 Sublist: chrom-8270_Isotope*sub1
 Method: \\ChromNA\Edison\ChromData\CBNAMS13\20180913-78623.b\8270_Isotope.m
 Limit Group: MSS 8270 Isotope Dilution IS
 Last Update: 14-Sep-2018 08:26:46 Calib Date: 11-May-2018 17:20:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28993.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK025

First Level Reviewer: zhaoc

Date: 13-Sep-2018 14:52:07

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
D 1 1,4-Dioxane-d8	96	3.014	3.014	0.000	0	4039065	4.00	3.92	
2 1,4-Dioxane	88	3.042	3.042	0.000	78	661284	0.5000	0.5058	
* 4 1,4-Dichlorobenzene-d4	152	5.715	5.715	0.000	98	520832	0.2000	0.2000	

Reagents:

SM_ISOTOPL5_00002

Amount Added: 1.00

Units: mL

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180913-78623.b\C31768.D

Injection Date: 13-Sep-2018 14:33:30

Instrument ID: CBNAMS13

Operator ID: bes

Lims ID: ccvis

Worklist Smp#: 2

Client ID:

Injection Vol: 5.0 ul

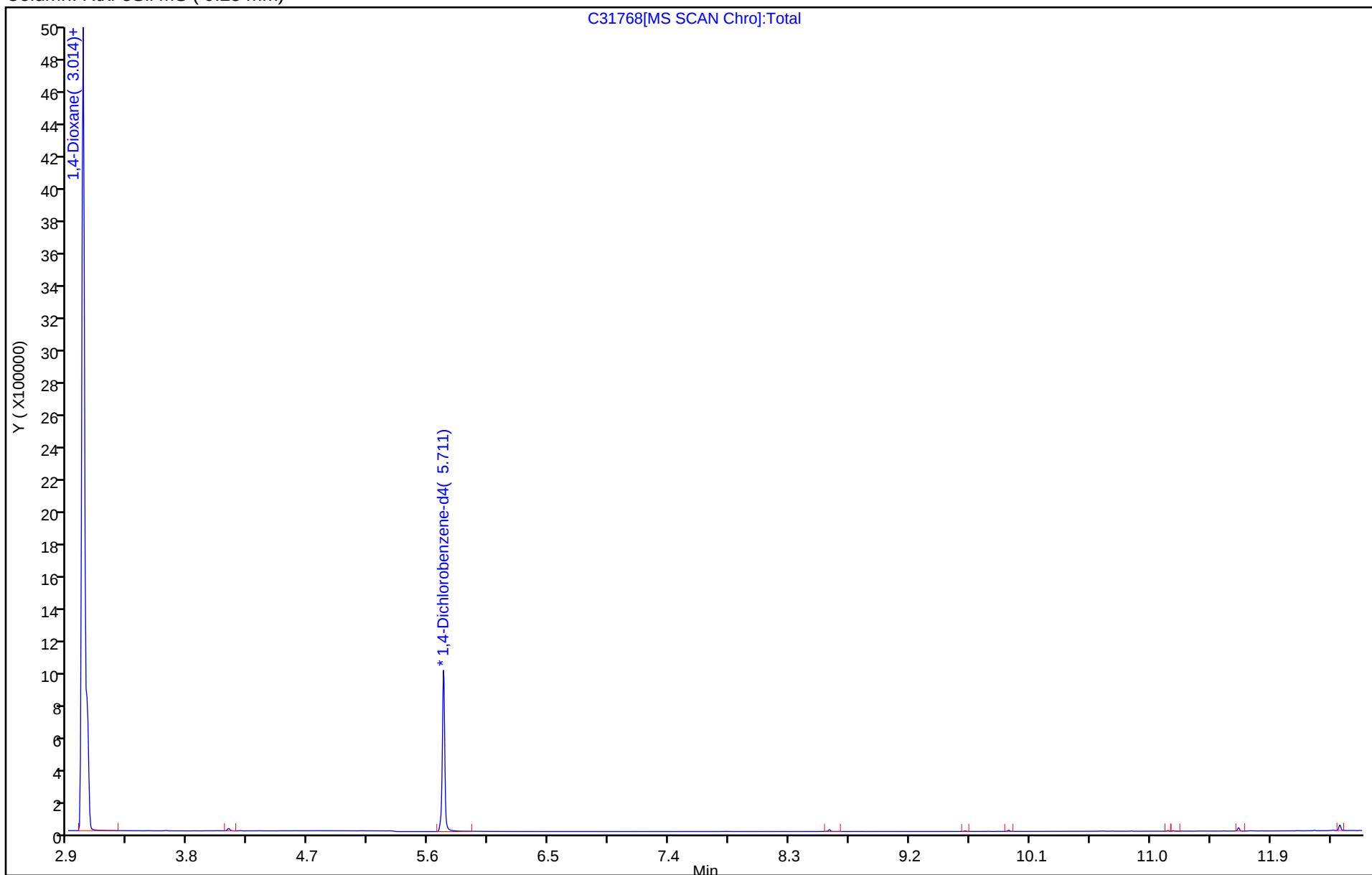
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: 8270_Isotope

Limit Group: MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28985.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 11-May-2018 12:33:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0071845-001
Operator ID: Instrument ID: CBNAMS13
Method: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\8270_Isotope.m
Limit Group: MSS 8270 Isotope Dilution IS
Last Update: 14-May-2018 12:12:23 Calib Date: 11-May-2018 17:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28993.D
Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK013

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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3 DFTPP

Reagents:

SMDFTP_CH_00024

Amount Added: 1.00

Units: mL

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS13\\20180511-71845.b\\C28985.D

Injection Date: 11-May-2018 12:33:30

Instrument ID: CBNAMS13

Lims ID: DFTPP

Client ID:

Operator ID:

ALS Bottle#:

1

Worklist Smp#:

1

Injection Vol: 5.0 ul

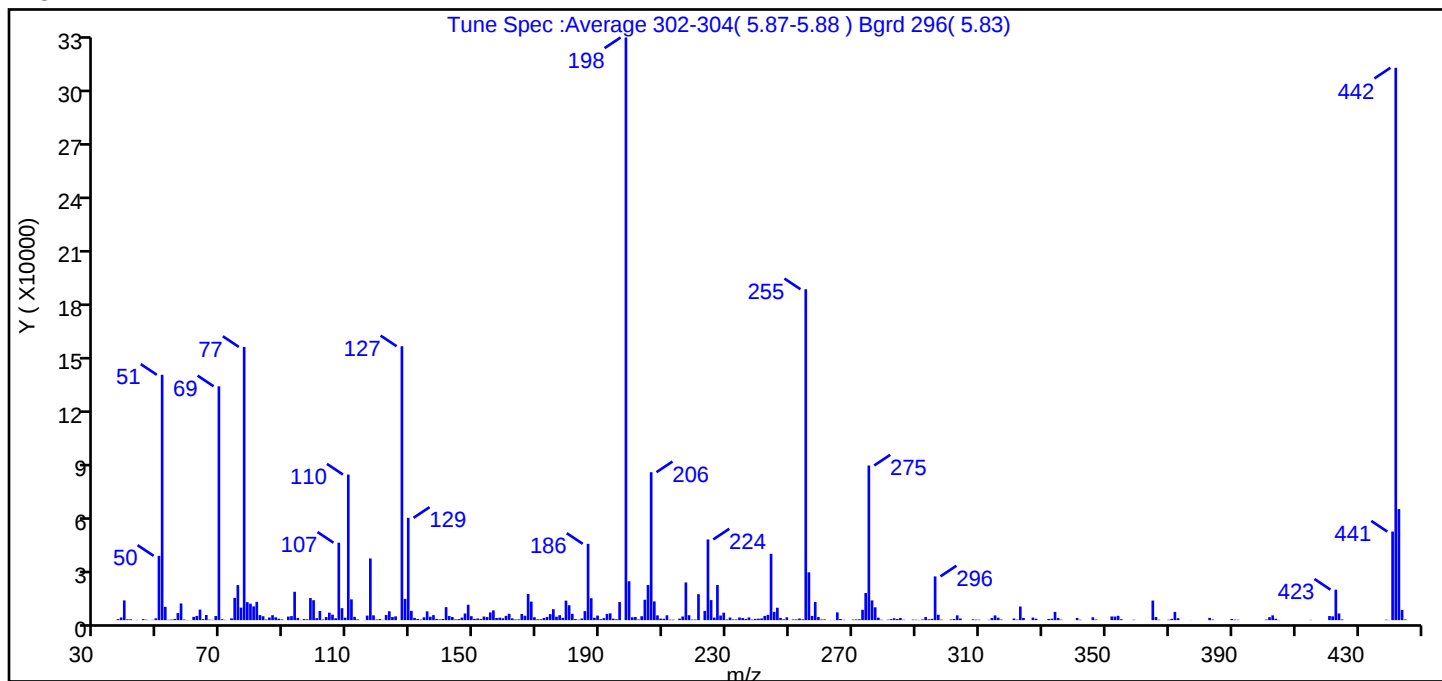
Dil. Factor: 1.0000

Method: 8270_Isotope

Limit Group: MSS 8270 Isotope Dilution IS

Tune Method: DFTPP Method 8270

3 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base peak, 100% relative abundance	100.0
51	30-60% of mass 198	42.1
68	<2% of mass 69	0.7 (1.8)
69	Present	40.1
70	<2% of mass 69	0.2 (0.4)
127	40-60% of mass 198	47.0
197	<1% of mass 198	0.0
199	5-9% of mass 198	6.7
275	10-30% of mass 198	26.5
365	>1% of mass 198	3.4
441	Present but less than mass 443	15.2 (79.7)
442	>40% of mass 198	94.8
443	17-23% of mass 442	19.1 (20.1)

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28985.D\8270_Isotope.rsl\spectra.d
Injection Date: 11-May-2018 12:33:30
Spectrum: Tune Spec :Average 302-304(5.87-5.88) Bgrd 296(5.83)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 315

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	49	118.00	2662	199.00	21424	284.00	629
37.00	560	119.00	356	200.00	1603	285.00	1209
38.00	1472	120.00	579	201.00	1724	286.00	232
39.00	10876	121.00	155	202.00	387	289.00	295
40.00	455	122.00	2863	203.00	2164	290.00	241
41.00	481	123.00	4900	204.00	11226	291.00	106
42.00	39	124.00	1725	205.00	19392	292.00	398
43.00	136	125.00	2104	206.00	81552	293.00	1687
45.00	569	127.00	150976	207.00	10345	294.00	477
46.00	256	128.00	11721	208.00	2633	295.00	726
47.00	48	129.00	56400	209.00	858	296.00	24112
48.00	154	130.00	5115	210.00	754	297.00	2986
49.00	996	131.00	1239	211.00	2693	298.00	280
50.00	35424	132.00	659	212.00	261	301.00	344
51.00	135232	133.00	329	213.00	275	302.00	633
52.00	7359	134.00	1590	215.00	837	303.00	2643
53.00	210	135.00	4840	216.00	2019	304.00	933
54.00	335	136.00	1900	217.00	20784	308.00	434
55.00	677	137.00	2771	218.00	2720	309.00	311
56.00	3922	138.00	678	219.00	327	310.00	233
57.00	9214	139.00	389	220.00	311	313.00	174
58.00	331	140.00	654	221.00	14315	314.00	1138
59.00	120	141.00	7166	223.00	5085	315.00	2625
60.00	90	142.00	2254	224.00	44488	316.00	1335
61.00	1811	143.00	1719	225.00	11061	317.00	300
62.00	2317	144.00	426	226.00	1424	321.00	894
63.00	5816	145.00	563	227.00	19384	322.00	294
64.00	555	146.00	1400	228.00	2545	323.00	7522
65.00	2842	147.00	3667	229.00	4119	324.00	1244
66.00	251	148.00	8479	230.00	384	326.00	59
67.00	178	149.00	2193	231.00	1459	327.00	1399
68.00	2257	150.00	689	232.00	385	328.00	759
69.00	128904	151.00	917	233.00	373	329.00	56

Report Date: 14-May-2018 12:12:24

Chrom Revision: 2.2 11-May-2018 08:54:46

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28985.D\8270_Isotope.rslt\spectra.d

Injection Date: 11-May-2018 12:33:30

Spectrum: Tune Spec :Average 302-304(5.87-5.88) Bgrd 296(5.83)

Base Peak: 198.00

Minimum % Base Peak: 0

Number of Points: 315

m/z	Y	m/z	Y	m/z	Y	m/z	Y
70.00	507	152.00	605	234.00	1468	332.00	652
71.00	162	153.00	1996	235.00	1159	333.00	788
72.00	53	154.00	1704	236.00	695	334.00	4537
73.00	1010	155.00	4248	237.00	1514	335.00	1179
74.00	12272	156.00	5394	238.00	342	336.00	228
75.00	19344	157.00	1184	239.00	721	341.00	1210
76.00	6896	158.00	1388	240.00	795	342.00	233
77.00	150592	159.00	1030	241.00	946	346.00	1584
78.00	9919	160.00	2360	242.00	2348	347.00	356
79.00	9058	161.00	3502	243.00	2909	352.00	2034
80.00	7582	162.00	993	244.00	36560	353.00	1993
81.00	10071	163.00	375	245.00	4562	354.00	2402
82.00	2783	164.00	408	246.00	6853	355.00	538
83.00	2157	165.00	3389	247.00	1236	359.00	225
84.00	351	166.00	2398	248.00	451	365.00	10809
85.00	1479	167.00	14423	249.00	1549	366.00	1720
86.00	2732	168.00	10214	250.00	103	367.00	253
87.00	1579	169.00	1613	251.00	388	370.00	225
88.00	770	170.00	482	252.00	391	371.00	728
89.00	398	171.00	499	253.00	887	372.00	4559
91.00	1966	172.00	1186	254.00	465	373.00	1064
92.00	2232	173.00	1788	255.00	182400	377.00	50
93.00	15636	174.00	3316	256.00	26352	383.00	1257
94.00	1209	175.00	6051	257.00	2312	384.00	308
95.00	145	176.00	1886	258.00	9992	390.00	678
96.00	595	177.00	2731	259.00	1687	391.00	307
97.00	457	178.00	1265	260.00	360	392.00	218
98.00	12185	179.00	10767	261.00	375	401.00	324
99.00	10997	180.00	8233	263.00	112	402.00	1656
100.00	1090	181.00	3487	264.00	144	403.00	2639
101.00	5050	182.00	613	265.00	4290	404.00	756
102.00	377	183.00	260	266.00	632	405.00	123
103.00	1699	184.00	916	267.00	207	415.00	151
104.00	4132	185.00	4991	270.00	335	421.00	2267

Report Date: 14-May-2018 12:12:24

Chrom Revision: 2.2 11-May-2018 08:54:46

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28985.D\8270_Isotope.rslt\spectra.d

Injection Date: 11-May-2018 12:33:30

Spectrum: Tune Spec :Average 302-304(5.87-5.88) Bgrd 296(5.83)

Base Peak: 198.00

Minimum % Base Peak: 0

Number of Points: 315

m/z	Y	m/z	Y	m/z	Y	m/z	Y
105.00	3036	186.00	42056	271.00	409	422.00	2101
106.00	1022	187.00	12106	272.00	486	423.00	16800
107.00	42696	188.00	1318	273.00	5701	424.00	3696
108.00	6612	189.00	2517	274.00	14971	425.00	385
109.00	1360	190.00	518	275.00	85240	439.00	278
110.00	80256	191.00	1108	276.00	10891	440.00	84
111.00	11459	192.00	3454	277.00	7084	441.00	48816
112.00	1823	193.00	3761	278.00	1373	442.00	304448
113.00	420	194.00	809	279.00	229	443.00	61224
115.00	100	195.00	507	281.00	211	444.00	5633
116.00	2517	196.00	9992	282.00	541	445.00	392
117.00	33992	198.00	321152	283.00	1038		

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180913-78623.b\C31767.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 13-Sep-2018 14:13:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0078623-001
Misc. Info.: DFTPP
Operator ID: bes Instrument ID: CBNAMS13
Method: \\ChromNA\Edison\ChromData\CBNAMS13\20180913-78623.b\8270_Isotope.m
Limit Group: MSS 8270 Isotope Dilution IS
Last Update: 14-Sep-2018 08:26:45 Calib Date: 11-May-2018 17:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28993.D
Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK025

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
----------	-----	--------------	------------------	------------------	---	----------	------------------	--------------------	-------

3 DFTPP

Reagents:

SMDFTP_CH_00025

Amount Added: 1.00

Units: mL

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180913-78623.b\C31767.D

Injection Date: 13-Sep-2018 14:13:30

Instrument ID: CBNAMS13

Lims ID: DFTPP

Client ID:

Operator ID: bes

ALS Bottle#: 1 Worklist Smp#: 1

Injection Vol: 5.0 ul

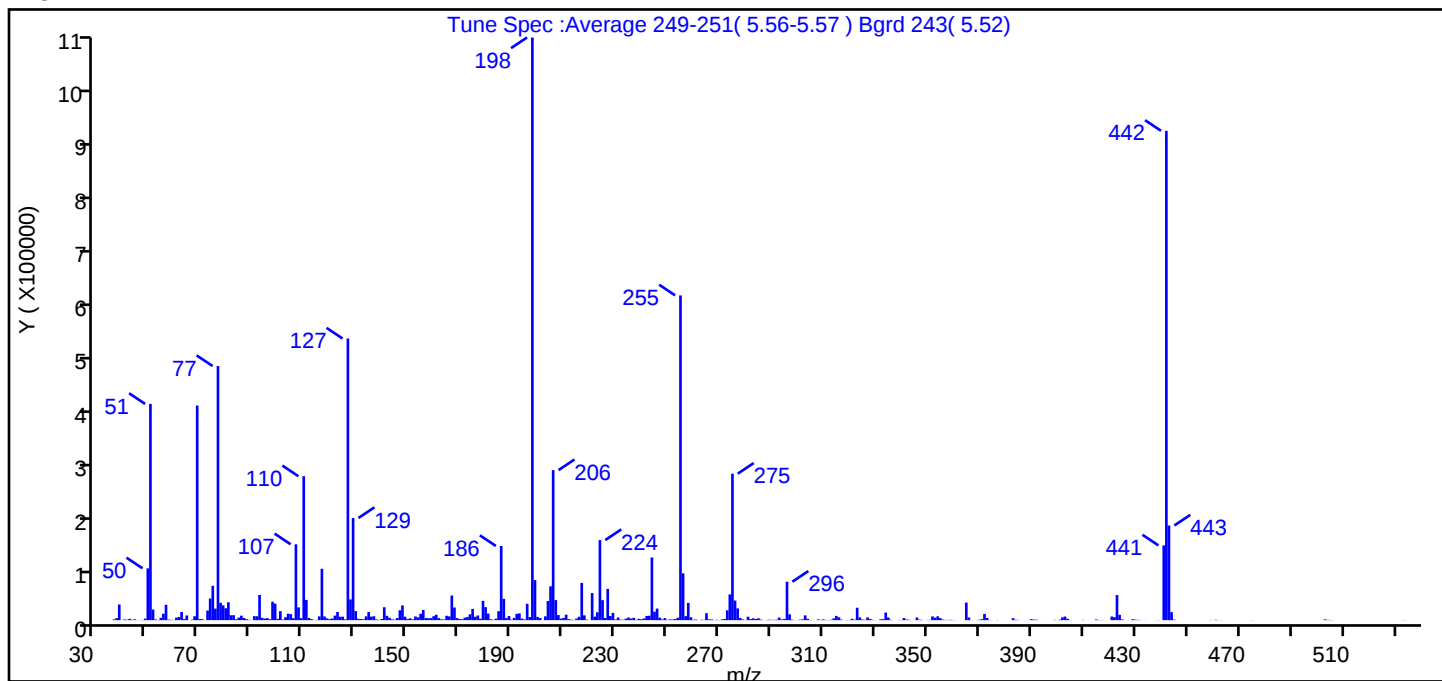
Dil. Factor: 1.0000

Method: 8270_Isotope

Limit Group: MSS 8270 Isotope Dilution IS

Tune Method: DFTPP Method 8270

3 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base peak, 100% relative abundance	100.0
51	30-60% of mass 198	37.1
68	<2% of mass 69	0.7 (1.8)
69	Present	36.8
70	<2% of mass 69	0.2 (0.5)
127	40-60% of mass 198	48.3
197	<1% of mass 198	0.5
199	5-9% of mass 198	6.9
275	10-30% of mass 198	25.1
365	>1% of mass 198	3.0
441	Present but less than mass 443	12.8 (79.0)
442	>40% of mass 198	84.0
443	17-23% of mass 442	16.2 (19.3)

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180913-78623.b\C31767.D\8270_Isotope.rslt\spectra.d
Injection Date: 13-Sep-2018 14:13:30
Spectrum: Tune Spec :Average 249-251(5.56-5.57) Bgrd 243(5.52)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 378

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	32	133.00	1492	229.00	12731	327.00	4861
37.00	1468	134.00	6681	230.00	1231	328.00	2097
38.00	3499	135.00	14147	231.00	4636	329.00	505
39.00	27464	136.00	6177	232.00	797	330.00	126
41.00	1214	137.00	6837	233.00	703	332.00	1497
42.00	831	138.00	1366	234.00	2602	333.00	1882
43.00	2260	139.00	414	235.00	4620	334.00	13305
44.00	647	140.00	2054	236.00	2764	335.00	4565
45.00	1399	141.00	22672	237.00	4074	336.00	593
46.00	151	142.00	7580	238.00	632	337.00	61
47.00	198	143.00	4162	239.00	2319	339.00	340
48.00	334	144.00	1419	240.00	1679	340.00	311
49.00	2700	145.00	797	241.00	3059	341.00	3643
50.00	90960	146.00	3673	242.00	7371	342.00	1186
51.00	379648	147.00	17360	243.00	7715	343.00	612
52.00	18600	148.00	25808	244.00	110072	344.00	54
53.00	1244	149.00	6084	245.00	14850	345.00	116
54.00	267	150.00	1933	246.00	20264	346.00	4632
55.00	4073	151.00	3215	247.00	4270	347.00	993
56.00	11378	152.00	1313	248.00	1277	348.00	296
57.00	26888	153.00	6460	249.00	3537	350.00	336
58.00	995	154.00	4990	250.00	557	351.00	437
59.00	597	155.00	11193	251.00	1316	352.00	6579
60.00	447	156.00	17912	252.00	1138	353.00	4282
61.00	4467	157.00	3657	253.00	2091	354.00	6730
62.00	5496	158.00	3419	254.00	4258	355.00	3457
63.00	14251	159.00	3572	255.00	570176	356.00	957
64.00	2037	160.00	6840	256.00	82152	357.00	378
65.00	8214	161.00	9470	257.00	6987	358.00	327
67.00	934	162.00	3573	258.00	30280	359.00	555
68.00	6821	163.00	1437	259.00	5049	360.00	221
69.00	376832	164.00	1146	260.00	810	361.00	182
70.00	1928	165.00	7673	261.00	1047	365.00	30816

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180913-78623.b\C31767.D\8270_Isotope.rslt\spectra.d

Injection Date: 13-Sep-2018 14:13:30

Spectrum: Tune Spec :Average 249-251(5.56-5.57) Bgrd 243(5.52)

Base Peak: 198.00

Minimum % Base Peak: 0

Number of Points: 378

m/z	Y	m/z	Y	m/z	Y	m/z	Y
71.00	1620	166.00	6605	262.00	116	366.00	4711
72.00	143	167.00	43296	263.00	590	367.00	204
73.00	16856	168.00	22208	264.00	581	369.00	239
74.00	37960	169.00	3730	265.00	12211	370.00	744
75.00	60264	170.00	1978	266.00	1465	371.00	1757
76.00	20232	171.00	1571	267.00	1190	372.00	10895
77.00	446080	172.00	4380	268.00	261	373.00	3789
78.00	30456	173.00	5622	269.00	530	374.00	411
79.00	25840	174.00	10168	270.00	220	377.00	270
80.00	20792	175.00	19712	271.00	1412	383.00	3395
81.00	31312	176.00	5979	272.00	1962	384.00	681
82.00	8572	177.00	8171	273.00	17296	385.00	417
83.00	8693	178.00	2475	274.00	45200	386.00	52
84.00	1573	179.00	33848	275.00	257152	389.00	52
85.00	4397	180.00	22896	276.00	34400	390.00	1737
86.00	7876	181.00	11457	277.00	20656	391.00	953
87.00	3872	182.00	1593	278.00	3762	392.00	839
88.00	1787	183.00	662	279.00	1272	396.00	84
89.00	599	184.00	2611	280.00	286	399.00	386
90.00	178	185.00	15694	281.00	6083	401.00	964
91.00	6983	186.00	130208	282.00	1844	402.00	4952
92.00	6842	187.00	37376	283.00	3205	403.00	6322
93.00	44232	188.00	3620	284.00	2018	404.00	2354
94.00	4056	189.00	7156	285.00	3228	405.00	311
95.00	2724	190.00	903	286.00	979	406.00	52
96.00	3481	191.00	3979	287.00	111	410.00	406
97.00	1546	192.00	11120	288.00	244	415.00	1209
98.00	32344	193.00	11865	289.00	748	416.00	345
99.00	28960	194.00	2703	290.00	615	417.00	284
100.00	2296	195.00	1187	291.00	445	418.00	57
101.00	15736	196.00	28704	292.00	824	421.00	6328
102.00	1004	197.00	5457	293.00	4506	422.00	5198
103.00	5197	198.00	1022976	294.00	1169	423.00	44120
104.00	11287	199.00	70312	295.00	2111	424.00	9319

Report Date: 14-Sep-2018 08:26:45

Chrom Revision: 2.3 19-Jul-2018 15:14:50

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180913-78623.b\C31767.D\8270_Isotope.rslt\spectra.d

Injection Date: 13-Sep-2018 14:13:30

Spectrum: Tune Spec :Average 249-251(5.56-5.57) Bgrd 243(5.52)

Base Peak: 198.00

Minimum % Base Peak: 0

Number of Points: 378

m/z	Y	m/z	Y	m/z	Y	m/z	Y
105.00	10614	200.00	5813	296.00	67416	425.00	1287
106.00	3342	201.00	3699	297.00	10179	429.00	1653
107.00	133184	203.00	6660	298.00	771	430.00	979
108.00	22392	204.00	33648	299.00	135	431.00	498
109.00	3335	205.00	59352	300.00	161	432.00	288
110.00	252672	206.00	263360	301.00	850	434.00	124
111.00	35504	207.00	35224	302.00	1378	438.00	170
112.00	3813	208.00	8969	303.00	8327	439.00	233
113.00	1830	209.00	2772	304.00	2294	441.00	131200
114.00	325	210.00	3844	305.00	255	442.00	859072
115.00	514	211.00	9569	308.00	1288	443.00	166144
116.00	6661	212.00	1785	309.00	527	444.00	13999
117.00	90144	213.00	929	310.00	1289	445.00	896
118.00	6518	214.00	455	311.00	412	459.00	341
119.00	3077	215.00	2788	312.00	325	461.00	674
120.00	1838	216.00	5877	313.00	694	462.00	176
121.00	2869	217.00	65360	314.00	3056	463.00	178
122.00	7926	218.00	8442	315.00	7519	475.00	280
123.00	14216	219.00	886	316.00	5055	476.00	66
124.00	5932	220.00	69	317.00	884	501.00	53
125.00	6019	221.00	47608	319.00	277	503.00	1271
126.00	1458	222.00	6218	320.00	264	504.00	638
127.00	494400	223.00	13730	321.00	2301	505.00	353
128.00	36320	224.00	140608	322.00	870	506.00	260
129.00	179328	225.00	35080	323.00	21752	533.00	255
130.00	15872	226.00	3904	324.00	4916	534.00	134
131.00	2351	227.00	54864	325.00	1129		
132.00	1961	228.00	7304	326.00	663		

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-164442-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 460-551834/1-A
 Matrix: Water Lab File ID: C31769.D
 Analysis Method: 8270D SIM ID Date Collected: _____
 Extract. Method: 3510C Date Extracted: 09/13/2018 07:55
 Sample wt/vol: 250 (mL) Date Analyzed: 09/13/2018 14:57
 Con. Extract Vol.: 2 (mL) Dilution Factor: 1
 Injection Volume: 5 (uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 551949 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.20	U	0.20	0.016

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	38		10-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180913-78623.b\C31769.D
 Lims ID: MB 460-551834/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 13-Sep-2018 14:57:30 ALS Bottle#: 3 Worklist Smp#: 3
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0078623-003
 Operator ID: bes Instrument ID: CBNAMS13
 Method: \\ChromNA\Edison\ChromData\CBNAMS13\20180913-78623.b\8270_Isotope.m
 Limit Group: MSS 8270 Isotope Dilution IS
 Last Update: 14-Sep-2018 08:26:46 Calib Date: 11-May-2018 17:20:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28993.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK025

First Level Reviewer: zhaoc

Date: 13-Sep-2018 15:13:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
D 1 1,4-Dioxane-d8	96	3.021	3.014	0.007	0	1476146	4.00	1.51	
* 4 1,4-Dichlorobenzene-d4	152	5.719	5.715	0.004	98	493209	0.2000	0.2000	

Reagents:

SM_iso_d4istd_00003 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 14-Sep-2018 08:26:46

Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180913-78623.b\C31769.D

Injection Date: 13-Sep-2018 14:57:30

Instrument ID: CBNAMS13

Operator ID: bes

Lims ID: MB 460-551834/1-A

Worklist Smp#: 3

Client ID:

Injection Vol: 5.0 ul

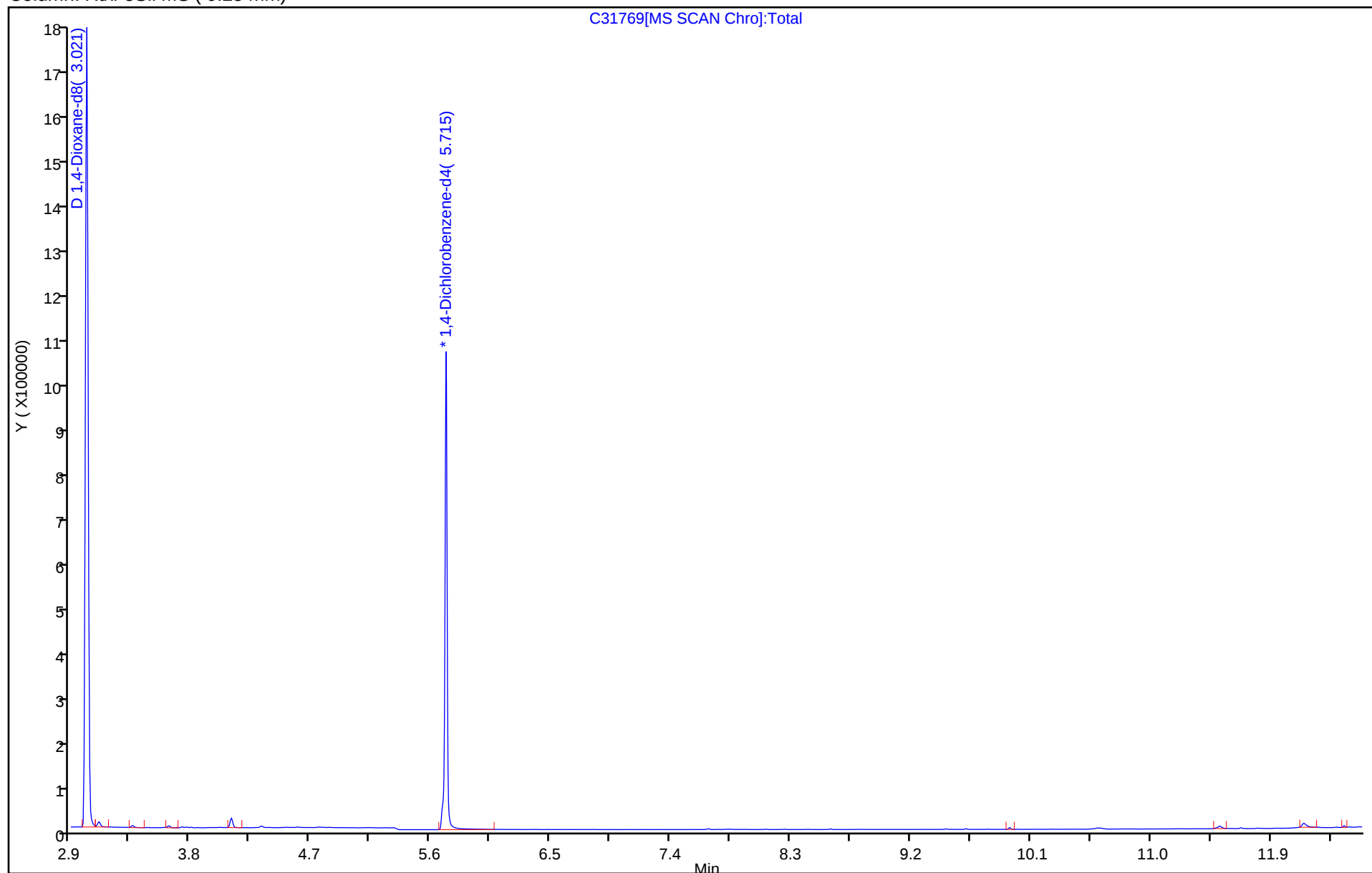
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: 8270_Isotope

Limit Group: MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180913-78623.b\C31769.D

Injection Date: 13-Sep-2018 14:57:30

Instrument ID: CBNAMS13

Lims ID: MB 460-551834/1-A

Client ID:

Operator ID: bes

ALS Bottle#: 3

Worklist Smp#: 3

Injection Vol: 5.0 ul

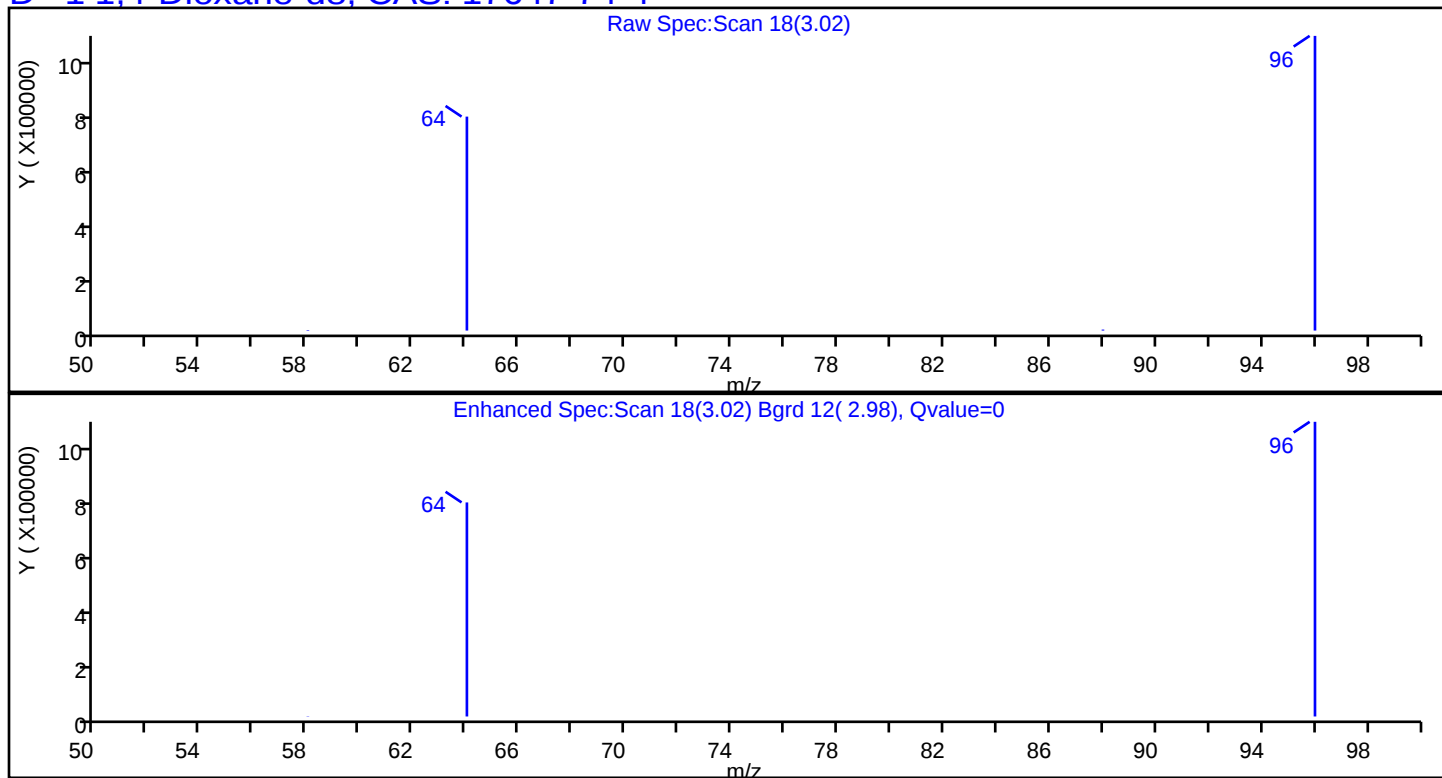
Dil. Factor: 1.0000

Method: 8270_Isotope

Limit Group: MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS (0.25 mm)

Detector MS SCAN

D 1 1,4-Dioxane-d8, CAS: 17647-74-4

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS13\\20180913-78623.b\\C31769.D

Injection Date: 13-Sep-2018 14:57:30

Instrument ID: CBNAMS13

Lims ID: MB 460-551834/1-A

Client ID:

Operator ID: bes

ALS Bottle#:

3

Worklist Smp#: 3

Injection Vol: 5.0 ul

Dil. Factor:

1.0000

Method: 8270_Isotope

Limit Group:

MSS 8270 Isotope Dilution IS

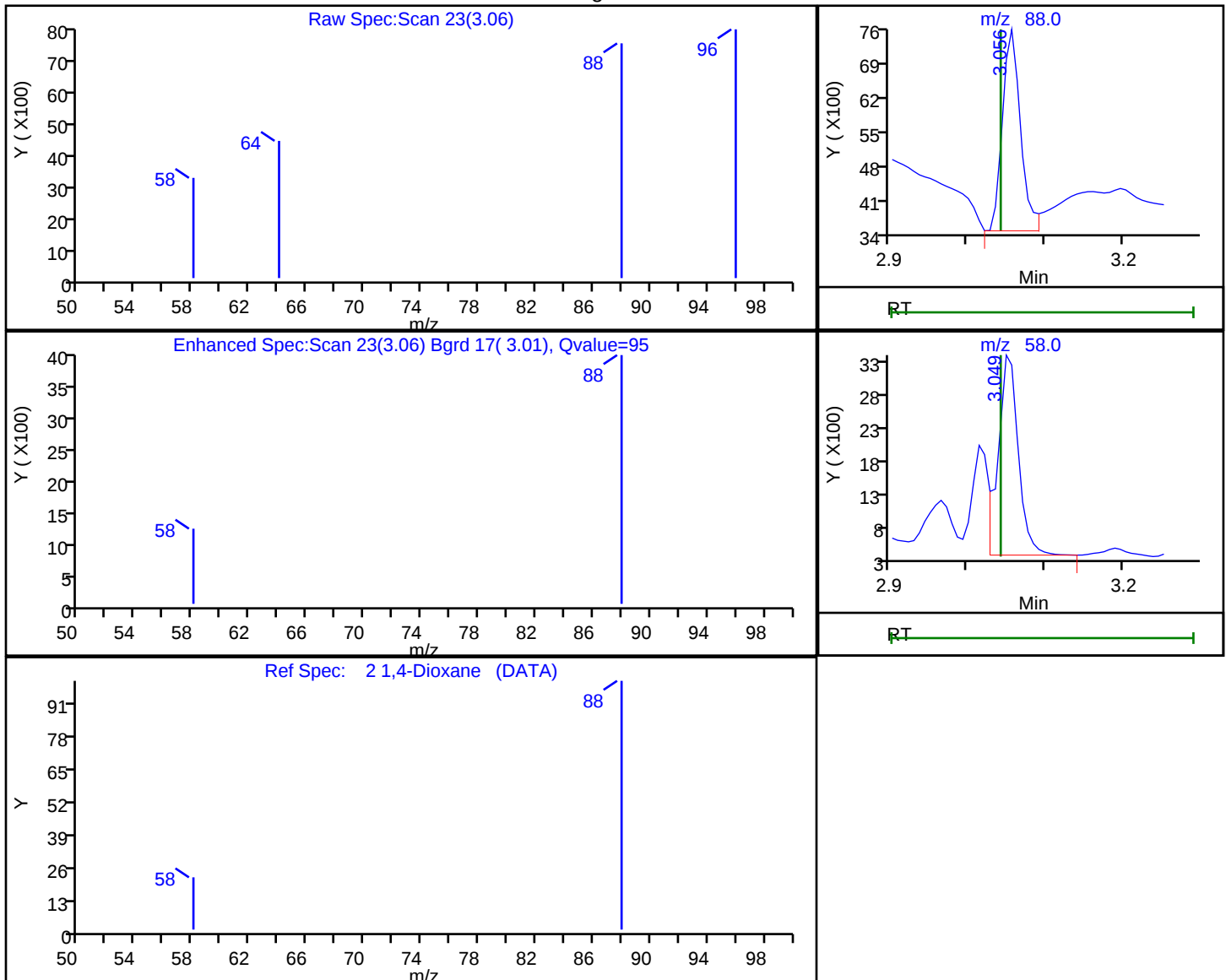
Column: Rtxi-5Sil MS (0.25 mm)

Detector

MS SCAN

2 1,4-Dioxane, CAS: 123-91-1

Processing Results



RT	Mass	Response	Amount
3.06	88.00	6736	0.014098
3.05	58.00	5425	

Reviewer: khlungprakhons, 14-Sep-2018 18:53:24

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-164442-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: LCS 460-551834/2-A
Matrix: Water Lab File ID: C31770.D
Analysis Method: 8270D SIM ID Date Collected: _____
Extract. Method: 3510C Date Extracted: 09/13/2018 07:55
Sample wt/vol: 250 (mL) Date Analyzed: 09/13/2018 15:15
Con. Extract Vol.: 2 (mL) Dilution Factor: 1
Injection Volume: 5 (uL) Level: (low/med) Low
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 551949 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	1.59		0.20	0.016

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	37		10-200

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180913-78623.b\C31770.D
 Lims ID: LCS 460-551834/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 13-Sep-2018 15:15:30 ALS Bottle#: 4 Worklist Smp#: 4
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0078623-004
 Operator ID: bes Instrument ID: CBNAMS13
 Method: \\ChromNA\Edison\ChromData\CBNAMS13\20180913-78623.b\8270_Isotope.m
 Limit Group: MSS 8270 Isotope Dilution IS
 Last Update: 14-Sep-2018 08:26:46 Calib Date: 11-May-2018 17:20:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28993.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK025

First Level Reviewer: zhaoc

Date: 13-Sep-2018 16:08:32

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
D 1 1,4-Dioxane-d8	96	3.000	3.014	-0.014	0	1534254	4.00	1.48	a
2 1,4-Dioxane	88	3.035	3.042	-0.007	83	98956	0.2000	0.1993	
* 4 1,4-Dichlorobenzene-d4	152	5.715	5.715	0.000	99	523677	0.2000	0.2000	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

SM_iso_d4istd_00003

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS13\\20180913-78623.b\\C31770.D

Injection Date: 13-Sep-2018 15:15:30

Instrument ID: CBNAMS13

Operator ID: bes

Lims ID: LCS 460-551834/2-A

Worklist Smp#: 4

Client ID:

Injection Vol: 5.0 ul

Dil. Factor: 1.0000

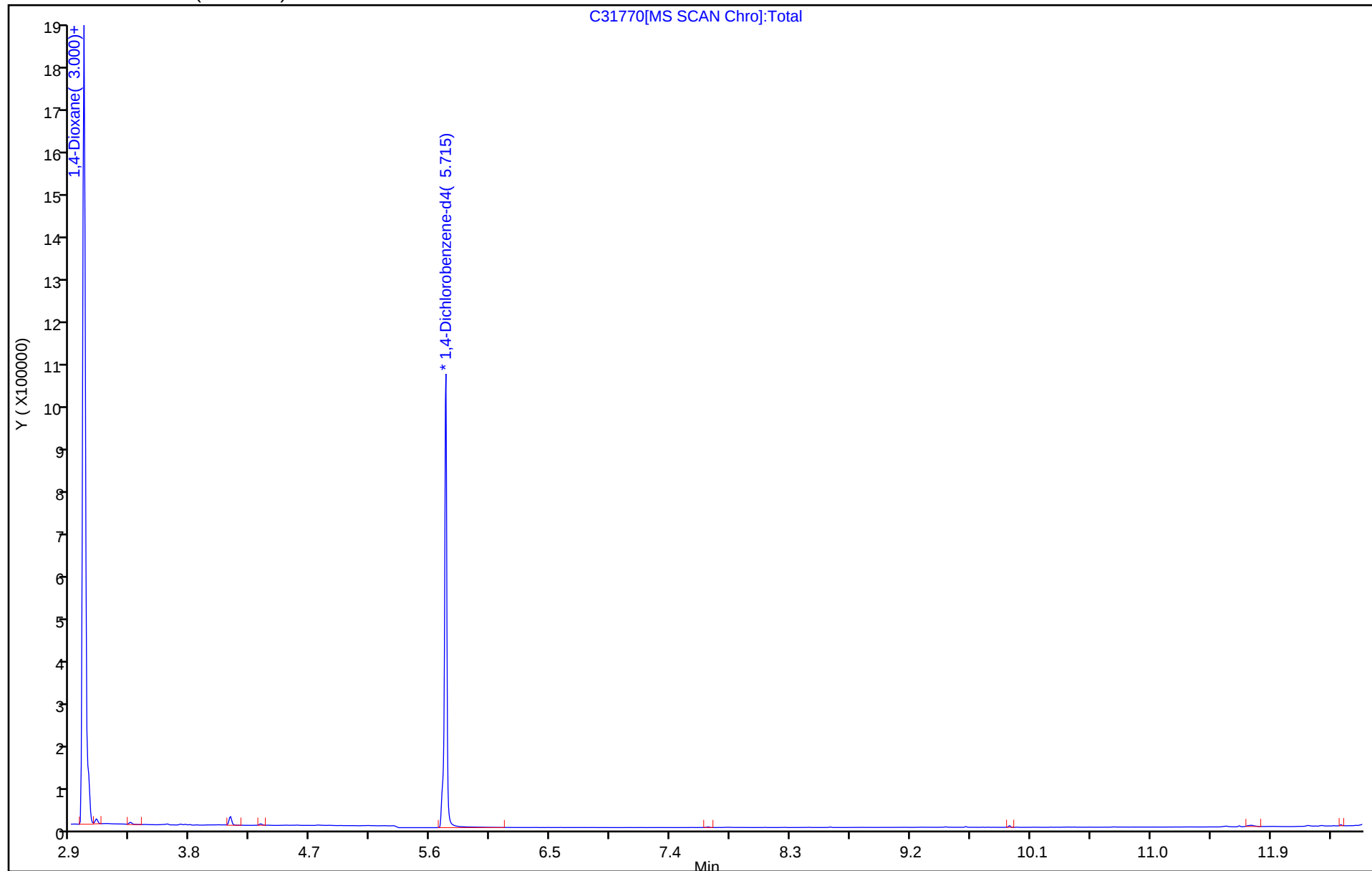
ALS Bottle#: 4

Method: 8270_Isotope

Limit Group: MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS (0.25 mm)

C31770[MS SCAN Chro]:Total



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180913-78623.b\C31770.D

Injection Date: 13-Sep-2018 15:15:30

Instrument ID: CBNAMS13

Lims ID: LCS 460-551834/2-A

Client ID:

Operator ID: bes

ALS Bottle#:

4

Worklist Smp#: 4

Injection Vol: 5.0 ul

Dil. Factor:

1.0000

Method: 8270_Isotope

Limit Group:

MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS (0.25 mm)

Detector

MS SCAN

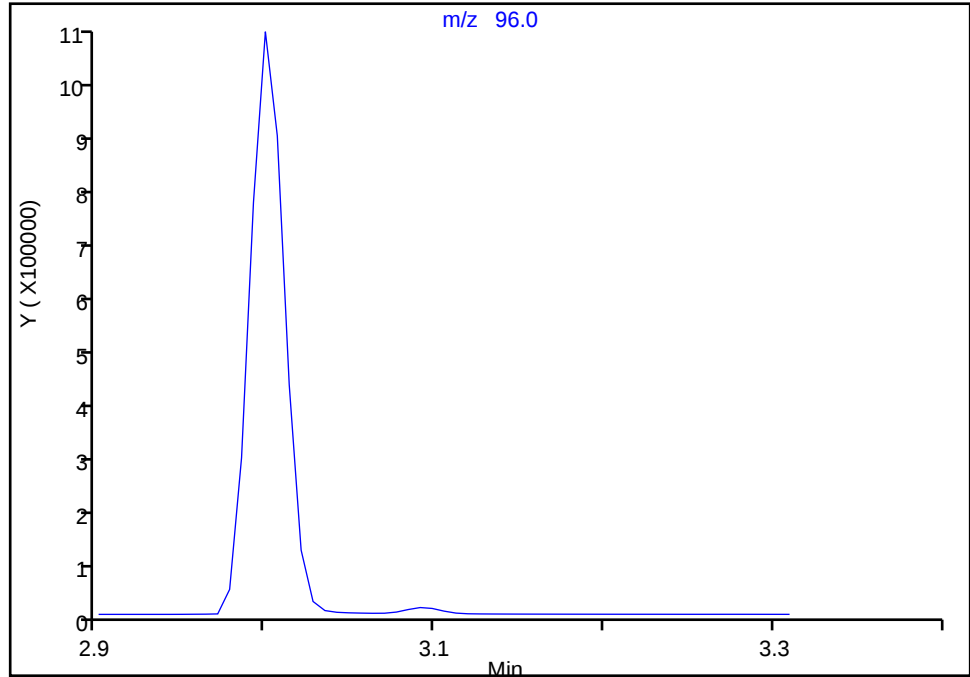
D 1 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

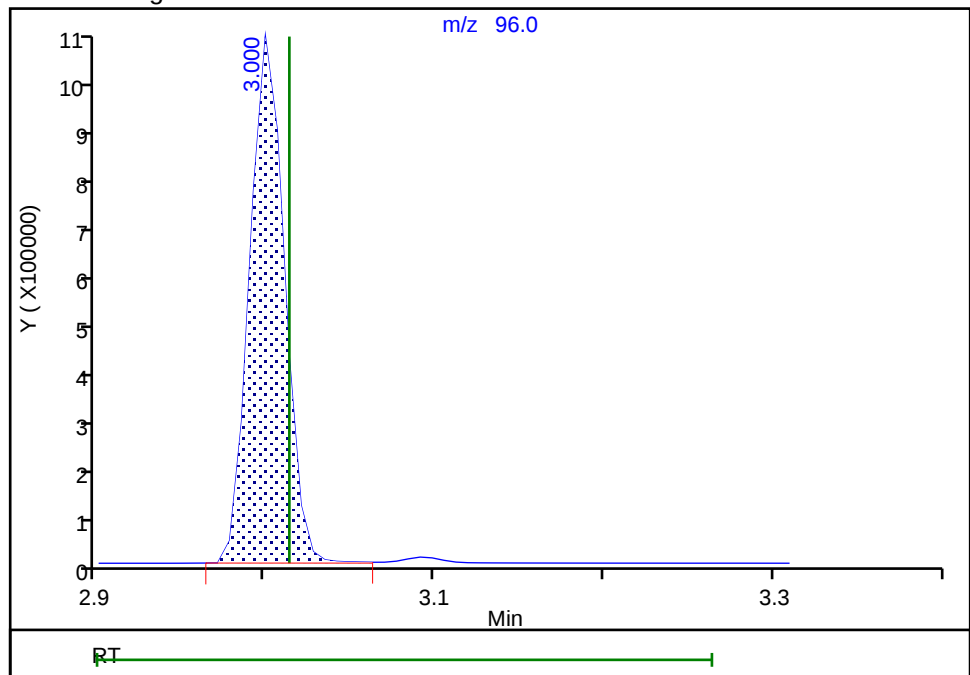
Not Detected

Expected RT: 3.01

Processing Integration Results



Manual Integration Results



RT: 3.00

Area: 1534254

Amount: 1.482295

Amount Units: ug/ml

Reviewer: zhaoc, 13-Sep-2018 16:20:30

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-164442-1
 SDG No.: _____
 Client Sample ID: TW-2 MS Lab Sample ID: 460-164442-3 MS
 Matrix: Water Lab File ID: C31771.D
 Analysis Method: 8270D SIM ID Date Collected: 09/10/2018 10:35
 Extract. Method: 3510C Date Extracted: 09/13/2018 07:55
 Sample wt/vol: 250 (mL) Date Analyzed: 09/13/2018 15:33
 Con. Extract Vol.: 2 (mL) Dilution Factor: 1
 Injection Volume: 5 (uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 551949 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	1.53		0.20	0.016

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	37		10-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180913-78623.b\C31771.D
 Lims ID: 460-164442-B-3-A MS
 Client ID: TW-2
 Sample Type: MS
 Inject. Date: 13-Sep-2018 15:33:30 ALS Bottle#: 5 Worklist Smp#: 5
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0078623-005
 Operator ID: bes Instrument ID: CBNAMS13
 Method: \\ChromNA\Edison\ChromData\CBNAMS13\20180913-78623.b\8270_Isotope.m
 Limit Group: MSS 8270 Isotope Dilution IS
 Last Update: 14-Sep-2018 08:26:46 Calib Date: 11-May-2018 17:20:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28993.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK025

First Level Reviewer: zhaoc

Date: 13-Sep-2018 16:10:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
D 1 1,4-Dioxane-d8	96	2.993	3.014	-0.021	0	1538563	4.00	1.49	
2 1,4-Dioxane	88	3.028	3.042	-0.014	82	95191	0.2000	0.1911	
* 4 1,4-Dichlorobenzene-d4	152	5.715	5.715	0.000	99	523900	0.2000	0.2000	

Reagents:

SM_iso_d4istd_00003

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180913-78623.b\C31771.D

Injection Date: 13-Sep-2018 15:33:30

Instrument ID: CBNAMS13

Operator ID: bes

Lims ID: 460-164442-B-3-A MS

Worklist Smp#: 5

Client ID: TW-2

Injection Vol: 5.0 ul

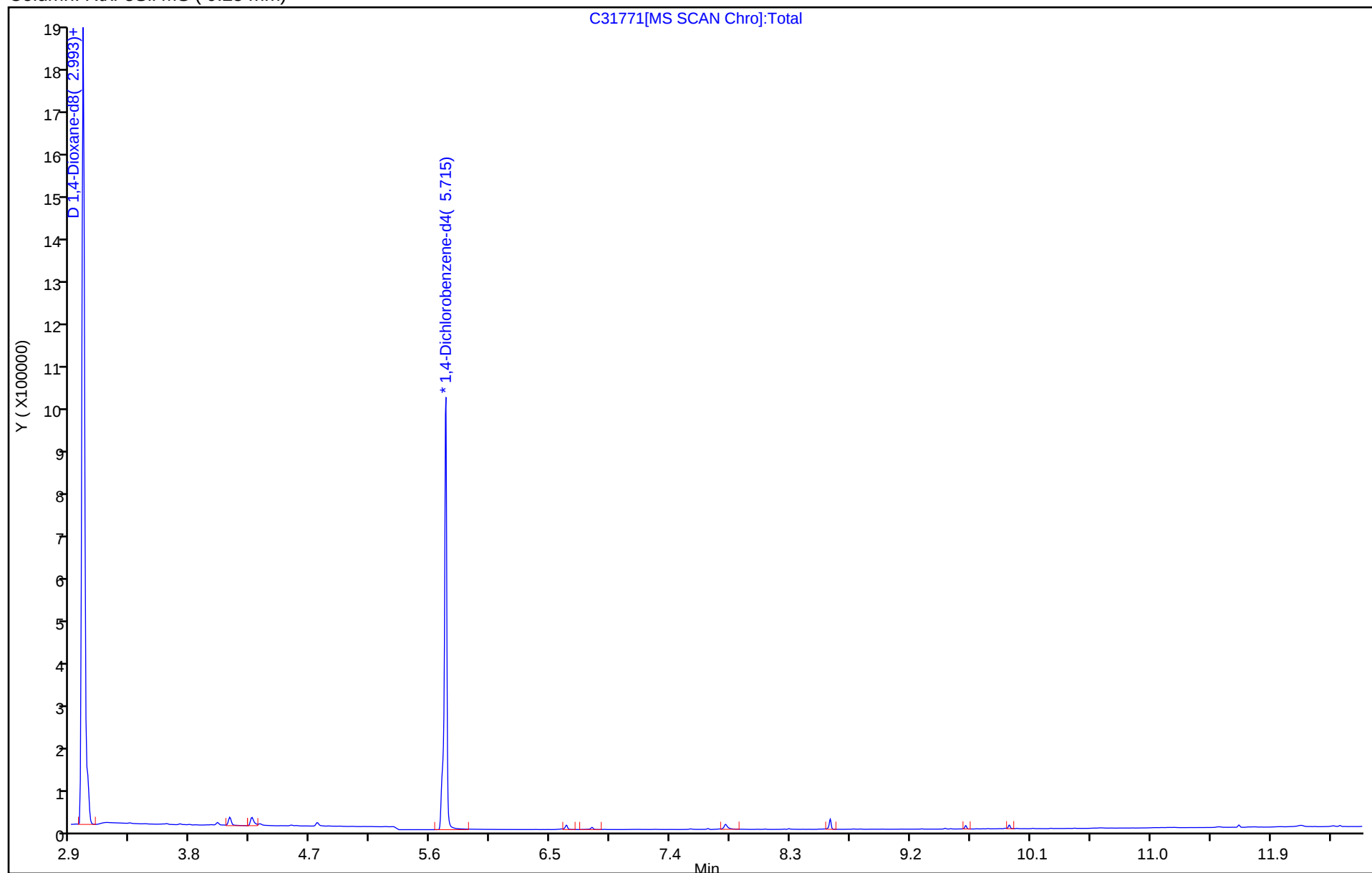
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: 8270_Isotope

Limit Group: MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-164442-1
 SDG No.: _____
 Client Sample ID: TW-2 MSD Lab Sample ID: 460-164442-3 MSD
 Matrix: Water Lab File ID: C31772.D
 Analysis Method: 8270D SIM ID Date Collected: 09/10/2018 10:35
 Extract. Method: 3510C Date Extracted: 09/13/2018 07:55
 Sample wt/vol: 250 (mL) Date Analyzed: 09/13/2018 15:50
 Con. Extract Vol.: 2 (mL) Dilution Factor: 1
 Injection Volume: 5 (uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 551949 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	1.55		0.20	0.016

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	38		10-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180913-78623.b\C31772.D
 Lims ID: 460-164442-A-3-A MSD
 Client ID: TW-2
 Sample Type: MSD
 Inject. Date: 13-Sep-2018 15:50:30 ALS Bottle#: 6 Worklist Smp#: 6
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0078623-006
 Operator ID: bes Instrument ID: CBNAMS13
 Method: \\ChromNA\Edison\ChromData\CBNAMS13\20180913-78623.b\8270_Isotope.m
 Limit Group: MSS 8270 Isotope Dilution IS
 Last Update: 14-Sep-2018 08:26:46 Calib Date: 11-May-2018 17:20:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28993.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK025

First Level Reviewer: zhaoc

Date: 13-Sep-2018 16:21:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
D 1 1,4-Dioxane-d8	96	3.000	3.014	-0.014	0	1665185	4.00	1.51	
2 1,4-Dioxane	88	3.028	3.042	-0.014	81	104268	0.2000	0.1934	
* 4 1,4-Dichlorobenzene-d4	152	5.715	5.715	0.000	99	558245	0.2000	0.2000	

Reagents:

SM_iso_d4istd_00003 Amount Added: 20.00 Units: uL Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS13\\20180913-78623.b\\C31772.D

Injection Date: 13-Sep-2018 15:50:30

Instrument ID: CBNAMS13

Operator ID: bes

Lims ID: 460-164442-A-3-A MSD

Worklist Smp#: 6

Client ID: TW-2

Injection Vol: 5.0 ul

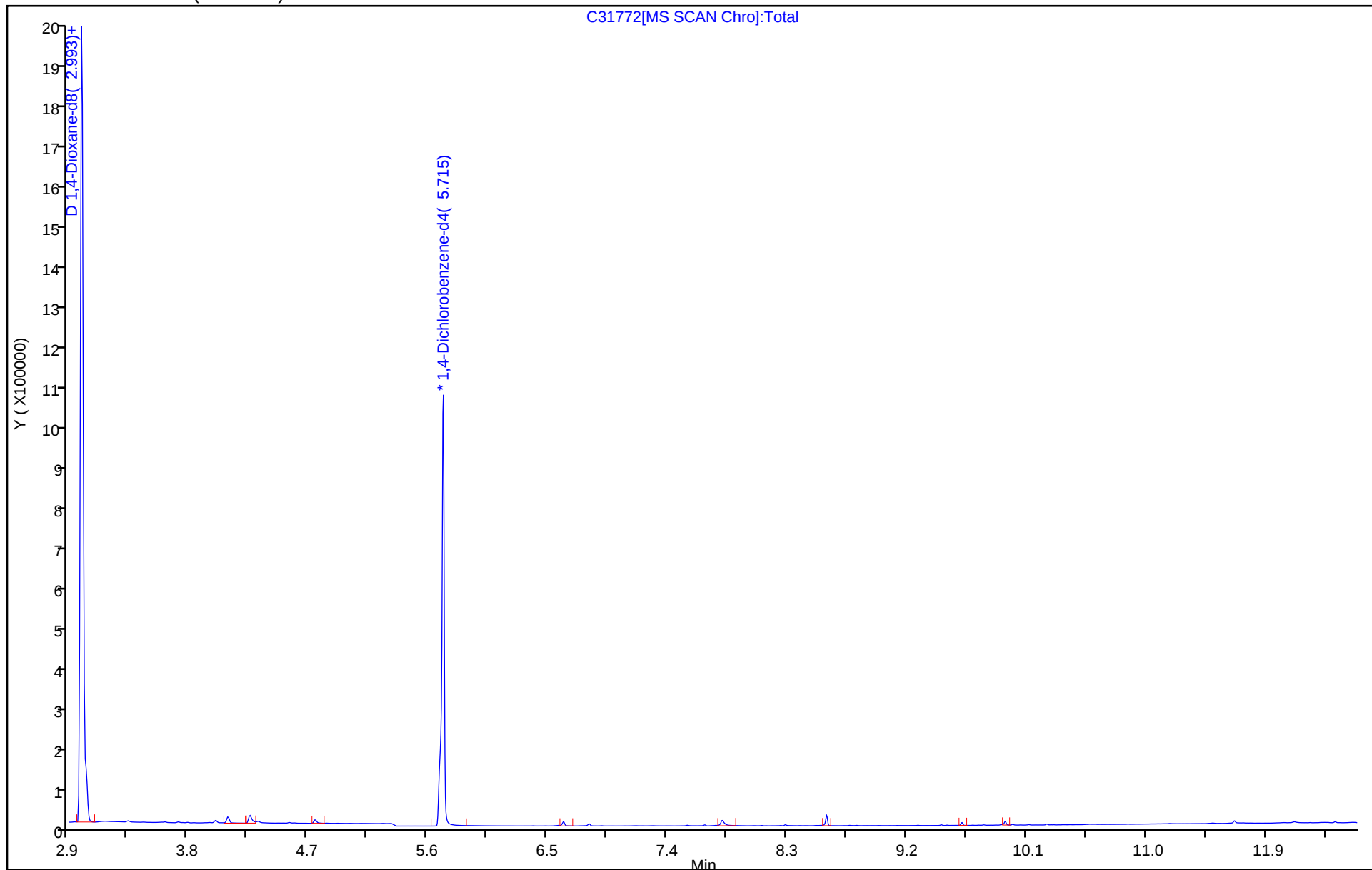
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: 8270_Isotope

Limit Group: MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS (0.25 mm)



GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-164442-1

SDG No.: _____

Instrument ID: CBNAMS13 Start Date: 05/11/2018 12:33Analysis Batch Number: 518314 End Date: 05/11/2018 17:43

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 460-518314/1		05/11/2018 12:33	1	C28985.D	Rtxi-5Sil MS 0.25 (mm)
ICIS 460-518314/2		05/11/2018 12:48	1	C28986.D	Rtxi-5Sil MS 0.25 (mm)
STD8 460-518314/3 IC		05/11/2018 13:08	1	C28987.D	Rtxi-5Sil MS 0.25 (mm)
STD7 460-518314/4 IC		05/11/2018 13:27	1	C28988.D	Rtxi-5Sil MS 0.25 (mm)
STD6 460-518314/5 IC		05/11/2018 14:16	1	C28989.D	Rtxi-5Sil MS 0.25 (mm)
STD4 460-518314/6 IC		05/11/2018 14:35	1	C28990.D	Rtxi-5Sil MS 0.25 (mm)
STD3 460-518314/7 IC		05/11/2018 15:44	1	C28991.D	Rtxi-5Sil MS 0.25 (mm)
STD2 460-518314/8 IC		05/11/2018 16:02	1	C28992.D	Rtxi-5Sil MS 0.25 (mm)
STD1 460-518314/9 IC		05/11/2018 17:20	1	C28993.D	Rtxi-5Sil MS 0.25 (mm)
ICV 460-518314/10		05/11/2018 17:43	1		Rtxi-5Sil MS 0.25 (mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-164442-1

SDG No.: _____

Instrument ID: CBNAMS13 Start Date: 09/13/2018 14:13Analysis Batch Number: 551949 End Date: 09/13/2018 17:19

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 460-551949/1		09/13/2018 14:13	1	C31767.D	Rtxi-5Sil MS 0.25 (mm)
CCVIS 460-551949/2		09/13/2018 14:33	1	C31768.D	Rtxi-5Sil MS 0.25 (mm)
MB 460-551834/1-A		09/13/2018 14:57	1	C31769.D	Rtxi-5Sil MS 0.25 (mm)
LCS 460-551834/2-A		09/13/2018 15:15	1	C31770.D	Rtxi-5Sil MS 0.25 (mm)
460-164442-3 MS		09/13/2018 15:33	1	C31771.D	Rtxi-5Sil MS 0.25 (mm)
460-164442-3 MSD		09/13/2018 15:50	1	C31772.D	Rtxi-5Sil MS 0.25 (mm)
460-164442-1		09/13/2018 16:08	1	C31773.D	Rtxi-5Sil MS 0.25 (mm)
460-164442-2		09/13/2018 16:26	1	C31774.D	Rtxi-5Sil MS 0.25 (mm)
460-164442-3		09/13/2018 16:44	1	C31775.D	Rtxi-5Sil MS 0.25 (mm)
460-164442-4		09/13/2018 17:02	1	C31776.D	Rtxi-5Sil MS 0.25 (mm)
460-164442-5		09/13/2018 17:19	1	C31777.D	Rtxi-5Sil MS 0.25 (mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-164442-1

SDG No.: _____

Batch Number: 551834 Batch Start Date: 09/13/18 07:55 Batch Analyst: Maraon, Alissandra NBatch Method: 3510C Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH	OP_1,4-DX_SP 00003	OP_14-DX_surr 00004
MB 460-551834/1		3510C, 8270D SIM ID		250 mL	2 mL	7 SU	<2 SU		20 uL
LCS 460-551834/2		3510C, 8270D SIM ID		250 mL	2 mL	7 SU	<2 SU	200 uL	20 uL
460-164442-B-3 MS	TW-2	3510C, 8270D SIM ID	T	250 mL	2 mL	7 SU	<2 SU	200 uL	20 uL
460-164442-A-3 MSD	TW-2	3510C, 8270D SIM ID	T	250 mL	2 mL	7 SU	<2 SU	200 uL	20 uL
460-164442-A-1	PW-2S	3510C, 8270D SIM ID	T	250 mL	2 mL	7 SU	<2 SU		20 uL
460-164442-A-2	PW-1S	3510C, 8270D SIM ID	T	250 mL	2 mL	7 SU	<2 SU		20 uL
460-164442-B-3	TW-2	3510C, 8270D SIM ID	T	250 mL	2 mL	7 SU	<2 SU		20 uL
460-164442-A-4	PW-XX-091018	3510C, 8270D SIM ID	T	250 mL	2 mL	7 SU	<2 SU		20 uL
460-164442-A-5	FB-091018	3510C, 8270D SIM ID	T	250 mL	2 mL	7 SU	<2 SU		20 uL

Batch Notes	
Acid Used for pH Adjustment ID	186983
Base Used to Adjust pH ID	OP2665
Batch Comment	3510C_LVI 8270D_SIM_MS_ID 1.4 Dioxane Sim Isotope
Analyst ID - Extraction	am
Method/Fraction	BNA Water 1.4 dioxane Sim Isotope
Prep Solvent ID	MeCL2 202867
Prep Solvent Volume Used	120 mL
Analyst ID - Spike Analyst	am
Analyst ID - Spike Witness Analyst	kh
Sufficient Volume for Batch QC	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.

8270D SIM ID

Page 1 of 1

Shipping and Receiving Documents

777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3600 Fax: (732) 549-3679

Page 1 of 1

Page 1 of 1

[illegible]

Other:

ДКАР

LAB USE ONLY

Project No:

Job No:

164442

[illegible]

Sample

Numbers

2

3

58

[illegible]

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[illegible]

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ed (Yes/No)? _____

1

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114-1632

141

09/11/15

1897

[illegible]

TAL - 0016 (07

TAL - 0016 (0715)

164442

Cooler Temperatures

[illegible]

If pH adjustments are required record the information below:

071115-5

Login Sample Receipt Checklist

Client: GEI Consultants, Inc.

Job Number: 460-164442-1

Login Number: 164442

List Source: TestAmerica Edison

List Number: 1

Creator: Jara, Kelly D

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	